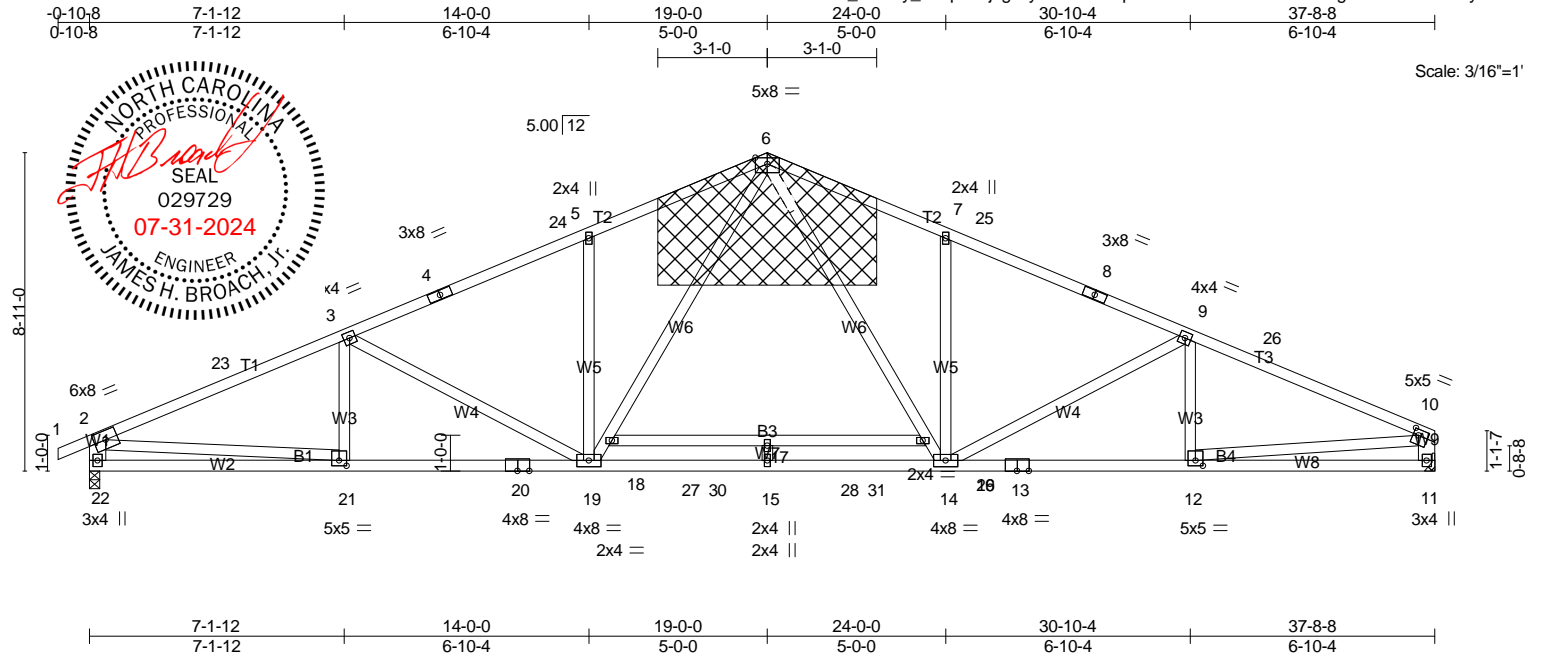


Job	Truss	Truss Type	Qty	Ply	LOT 1 PROVIDENCE CREEK 81 PROVIDENCE CREEK DRIVE FUQUAY, VA
24-4510-R01	R02ARP1	Common	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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REPAIR(S) REQUIRED

Plate Offsets (X, Y)-- [10:0-1-12,0-2-0], [12:0-2-8,0-1-12], [21:0-2-8,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.61 17 >730 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.91	Vert(CT) -1.00 17 >445 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.09 11 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 234 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B3: 2x4 SP No.1, B2: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
W1, W9: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 16-18

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

REACTIONS. (lb/size) 22=1647/0-3-8 (min. 0-1-15), 11=1580/Mechanical
Max Horz 22=107(LC 14)
Max Uplift 22=-163(LC 14), 11=-138(LC 15)
Max Grav 22=1648(LC 3), 11=1596(LC 3)

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

TOP CHORD 2-23=-2858/276, 3-23=-2786/289, 3-4=-2689/261, 4-24=-2622/282, 5-24=-2557/284,
5-6=-2676/367, 6-7=-2656/367, 7-25=-2538/285, 8-25=-2603/282, 8-9=-2670/261,
9-26=-2656/290, 10-26=-2770/277, 2-22=-1564/245, 10-11=-1505/197
BOT CHORD 21-22=-190/481, 20-21=-260/2571, 19-20=-260/2571, 19-27=-30/1881, 15-27=-30/1881, 15-28=-30/1881, 28-29=-
30/1881, 14-29=-30/1881, 13-14=-189/2499, 12-13=-189/2499, 11-12=-55/329
WEBS 6-16=-152/1106, 14-16=-195/990, 7-14=-478/189, 9-14=-322/171, 9-12=-251/80,
18-19=-200/1026, 6-18=-156/1141, 5-19=-481/190, 3-19=-374/176, 2-21=-119/2113,
10-12=-151/2191

NOTES- (14)

- 1) Repair Condition: Diagonal web 6-14 is broken 1-6-0 below joint 6.
- 2) Attach 45"H X 74"W X 3/4" Plywood or OSB (23/32" APA Rated Sheathing 48/24 Exposure 1) gusset to both sides of truss at joint 6 with 10d (0.131"x3") nails from each face, driven through both sheets of plywood. Connected together as follows: 2x4 - 2 rows 0-4-0 o.c. Minimum 0-3-0 end distance.
- 3) Repairs specified by this program will be subject to review and change.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 14-0-0, Exterior(2R) 14-0-0 to 24-0-0, Interior(1) 24-0-0 to 32-8-2, Exterior(2E) 32-8-2 to 37-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 6) 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
- 7) Unbalanced snow loads have been considered for this design.
- 8) 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 1 PROVIDENCE CREEK 81 PROVIDENCE CREEK DRIVE FUQUAY, NC
24-4510-R01	R02ARP1	Common	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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NOTES- (14)

- 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 163 lb uplift at joint 22 and 138 lb uplift at joint 11.
- 13) 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.

LOAD CASE(S) Standard