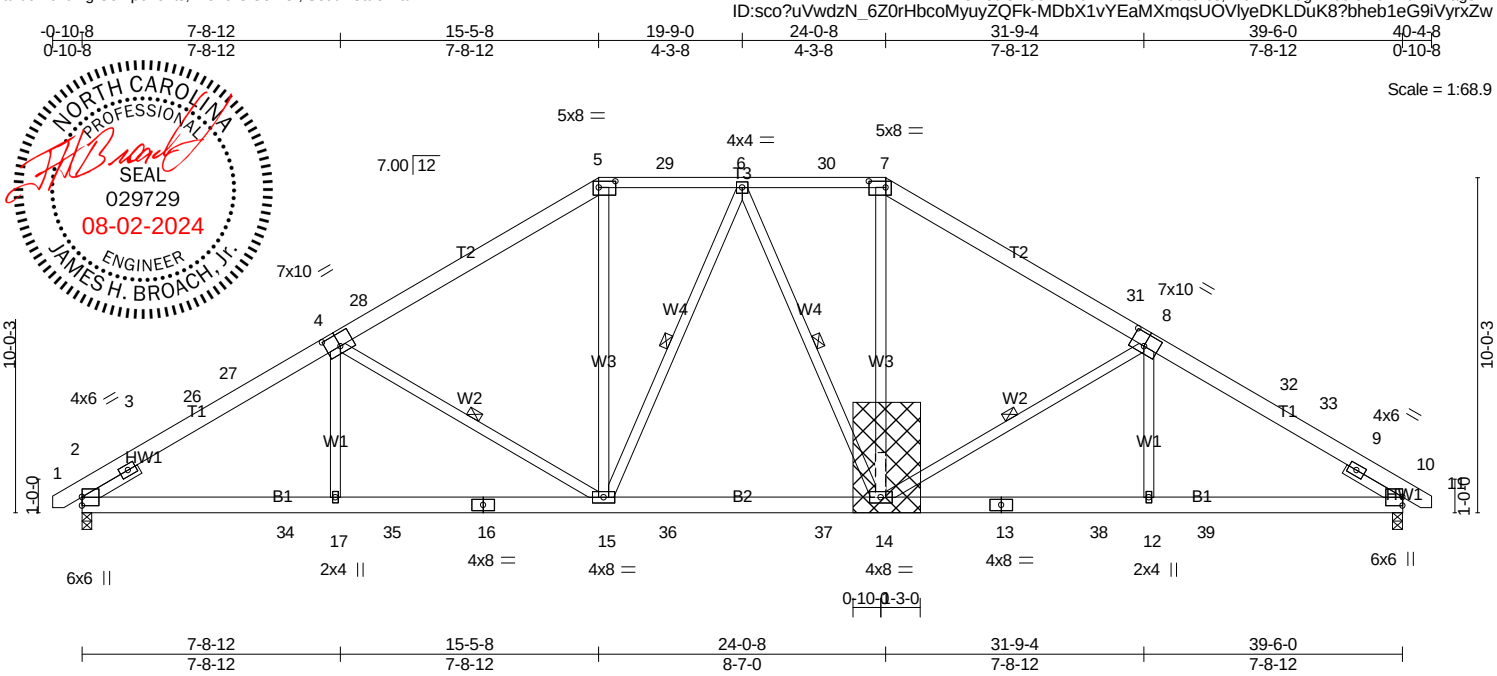
Job	Truss	Truss Type	Qty	Ply	LOT 10 PROVIDENCE CREEK | 233 PROVIDENCE CREEK DRIVE FUQUAY-
24-5028-R01	R04RP1	PIGGYBACK BASE	15	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Aug 2 09:37:07 2024 Page 1
ID:sco?uVwdzN_6Z0rHbcoMyuyZQFk-MDbX1vYEaMXmqsUOVlyeDKLDuK8?bheb1eG9iVyrxZw



REPAIR(S) REQUIRED

Plate Offsets (X,Y)-- [4:0-5-0,0-4-8], [5:0-6-0,0-2-4], [7:0-6-0,0-2-4], [8:0-5-0,0-4-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.19	14-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.29	14-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.10	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-AS							Weight: 298 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.2 *Except* T3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -Ä 1-11-0, Right 2x4 SP No.3 -Ä 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-15, 6-15, 6-14, 8-14

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

REACTIONS. (lb/size) 2=1623/0-3-8 (min. 0-2-6), 10=1623/0-3-8 (min. 0-2-6)
Max Horz 2=210(LC 13)
Max Uplift2=-172(LC 14), 10=-172(LC 15)
Max Grav 2=2027(LC 39), 10=2027(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1295/80, 3-26=-3113/265, 26-27=-3041/276, 4-27=-2872/296, 4-28=-2432/289, 5-28=-2230/325, 5-29=-1924/333, 6-29=-1924/333, 6-30=-1924/333, 7-30=-1924/333, 7-31=-2230/325, 8-31=-2432/289, 8-32=-2872/296, 32-33=-3041/276, 9-33=-3113/265, 9-10=-1295/80
BOT CHORD 2-34=-255/2639, 17-34=-255/2639, 17-35=-255/2638, 16-35=-255/2638, 15-16=-255/2638, 15-36=-83/1930, 36-37=-83/1930, 14-37=-83/1930, 13-14=-167/2578, 13-38=-167/2578, 12-38=-167/2578, 12-39=-166/2578, 10-39=-166/2578
WEBS 4-17=0/258, 4-15=-862/236, 5-15=-25/720, 6-15=-265/169, 6-14=-265/169, 7-14=-24/720, 8-14=-863/237, 8-12=0/258

NOTES- (14)
1) Repair Condition: Vertical web 7-14 has damaged section 1-4-0 long starting 0-0-0 above joint 14.
2) Attach 40"H X 25"W X 7/16" OSB (APA Rated Sheathing 24/16 Exposure 1) gusset to both sides of truss at joint 14 with 10d (0.131"x3") nails from each face, driven through both sheets of plywood and clinched. Connected together as follows: 2x6 - 2 rows 0-8-0 o.c., 2x4 - 2 rows 0-6-0 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) -0-8-8 to 4-1-1, Interior(1) 4-1-1 to 8-8-1, Exterior(2R) 8-8-1 to 30-9-15, Interior(1) 30-9-15 to 35-4-15, Exterior(2E) 35-4-15 to 40-2-8 zone;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.

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NOTES- (14)

9) Provide adequate drainage to prevent water ponding.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 2 and 172 lb uplift at joint 10.
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