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# COMPLIES WITH: 2020 FBC 7 ED. ASCE 7-16

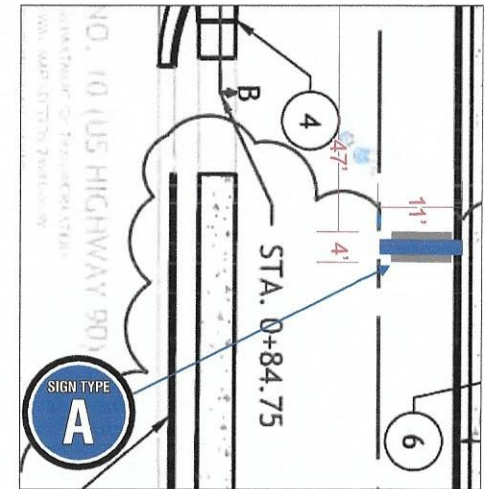
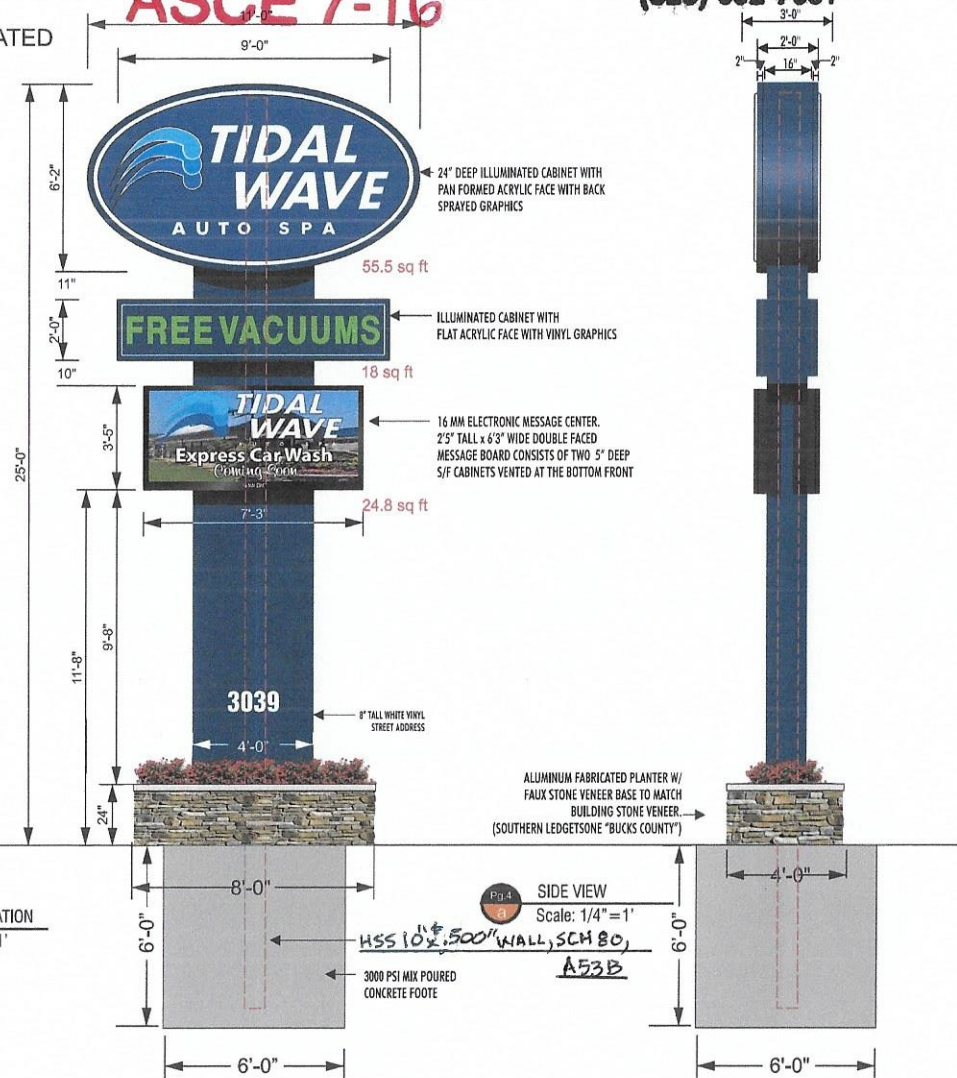
William B. Zeeveld, PE  
FL. Lic. #61169  
P.O. Box 2241  
Roswell, GA 30077-2241  
(828) 692-7681

SIGN TYPE A: MONUMENT SIGN  
DOUBLE-SIDED, INTERNALLY ILLUMINATED  
QTY: 1 - 98.38 SQ. FT.



## SPREAD FOOTER OPTION

William B. Zeeveld  
Digitally signed by William B. Zeeveld  
Date: 2022.08.23 16:54:22 -04'00'



SCALE: 1/16" = 1'-0"

- P1 PAINT - MATCH PANTONE 281C
- P2 PAINT - SW 7757 "HIGH REFLECTIVE WHITE"
- D1 DIGITALLY PRINTED TRANSLUCENT VINYL
  - MATCH PANTONE 281C
  - MATCH PANTONE 2985C
  - MATCH PANTONE PROCESS BLUE
  - MATCH PANTONE 368C



CLAYTON Signs  
Since 1965

5198 NORTH LAKE DRIVE  
LAKE CITY GA 30260  
404-361-3800  
FAX 404-361-7038  
WWW.CLAYTONSIGNS.COM

DATE - 7.22.22  
SIGN TYPE  
EXTERIOR SIGN PACKAGE

CLIENT  
TIDAL WAVE  
3039 WEST US 90  
LAKE CITY, FL 32055

REVISIONS:  
REVISION # - DATE

DESIGNER RYAN M  
ACCOUNT REP. TODD WILLIS

SCALE: AS INDICATED  
DRAWING FILE NAME  
O3\_RM\_TIDAL WAVE LAKE CITY FL  
TIDAL WAVE LAKE CITY FL SIGN PACKAGE -  
7.22.22\_CDR

DRAWING  
STATUS:



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25'-0" OAH MAIN I.D. Pylon Sign  
TIDAL WAVE AUTO SPA  
3039 WEST US 90  
LAKE CITY, FL 32055

1/3

MONUMENT I.D. SIGN STA

WIND LOAD = 118 M/HR, WIND PRESSURE =  $45 \text{ #/ft}^2$ , EXP. C, RISK CAT II  
ASCE 7-10, 2015 IBC  $h = 25'$ ,  $K_z = .94$ ,  $g_e = 27.05 \text{ #/ft}^2$   $h = 25'$ ,  $s = 13.67$ ,  $s/h = 0.55$   
WIND FORCE =  $F = 27.05 (1.75) (.85) (A_{REF})$   $B = 11'$ ,  $B/s = .80$ ,  $C_s = 1.75$   
 $40.24 \text{ #/ft}^2$  Use  $45 \text{ #/ft}^2$

LOGO AREA = $55.5 \text{ ft}^2$	BEND. MT. AT GRADE = $55 (45) (22.0) = 54450 \text{ ft}^2$	WT. (EST.)
FREE VACUUMS = $18 \text{ ft}^2$	BEND. MT. AT GRADE = $18 (45) (16.8) = 13608 \text{ ft}^2$	660 <sup>#</sup>
ENC SCREEN = $24.8 \text{ ft}^2$	BEND. MT. AT GRADE = $25 (45) (13.3) = 14963 \text{ ft}^2$	200 <sup>#</sup>
POLE CUR. (TOP) = $4.0 \text{ ft}^2$	BEND. MT. AT GRADE = $4 (45) (18.0) = 3240 \text{ ft}^2$	375 <sup>#</sup>
POLE CUR. (MID) = $4.0 \text{ ft}^2$	BEND. MT. AT GRADE = $4 (45) (15.5) = 2790 \text{ ft}^2$	40 <sup>#</sup>
POLE CUR. (BASE) = $48.0 \text{ ft}^2$	BEND. MT. AT GRADE = $48 (45) (6.0) = 12960 \text{ ft}^2$	40 <sup>#</sup>
	TOTALS	102011 $\text{ft}^2$
	10" x 33' PIPE POLE	1565 <sup>#</sup>
		1815 <sup>#</sup>
		3380 <sup>#</sup>

STEEL PIPE POLE: HSS 10" x .500" WALL, SCH 80, A53B, SEC. AREA =  $37.0 \text{ in}^2$

ALLOW. BEND. MT. =  $35000 \times \frac{37.0}{12} = 107917 \text{ ft}^2 > 102011 \text{ ft}^2$  READ. OK

AUGERED CONCRETE FOOTING = 3'-0" x 12'-0" DEEP

CONCRETE FOOTING WT. =  $\pi (\frac{3.0}{2})^2 (12.0) (150) = 12723 \text{ #}$

SOIL RESIST. PRESSURE =  $\pi (3.0) (12.0) (200) = 22619 \text{ #}$

DIRECT BURIAL

CONCRETE =  $3000 \text{ #/ft}^3$ 

OVERTURNING RESIST. MT. (DD. WT.) =  $(12723 + 3380) (\frac{3.0}{2}) = 24155 \text{ ft}^2$

OVERTURNING RESIST. MT. (SOIL) =  $(22619) (\frac{12.0}{3}) = 90476 \text{ ft}^2$

TOTAL =  $114631 \text{ ft}^2 > 102011 \text{ ft}^2$  READ. OK

SPREAD FOOTING OPTION 6'-0" W x 6'-0" L x 6'-0" DEEP

CONCRETE FOOTING WT. =  $(6.0) (6.0) (6.0) (150) = 32400 \text{ #}$

SOIL RESIST. PRESSURE =  $2 (6.0) (6.0) (200) = 14400 \text{ #}$

DIRECT BURIAL

CONCRETE =  $3000 \text{ #/ft}^3$ 

OVERTURNING RESIST. MT. (DD. WT.) =  $(32400 + 3380) (\frac{6.0}{2}) = 107340 \text{ ft}^2$

OVERTURNING RESIST. MT. (SOIL) =  $(14400) (\frac{6.0}{3}) = 28800 \text{ ft}^2$

TOTAL =  $136140 \text{ ft}^2 > 102011 \text{ ft}^2$  READ. OK

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ASCE 7-16

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B.  
Zeeveld

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