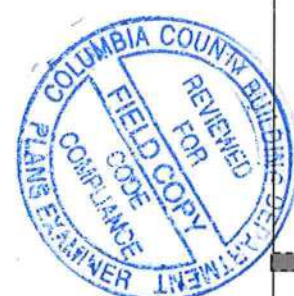


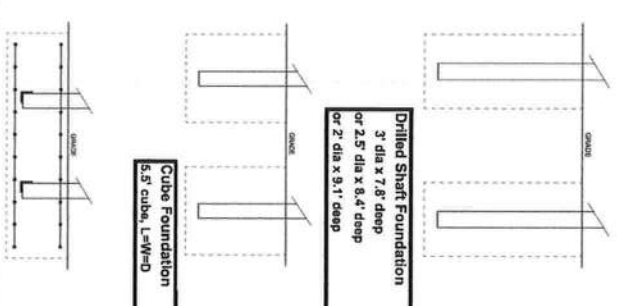
4



8" x 8.625" Dia, 0.562" wall, A53 35 ksi Steel Column, S=24.81 M=43.4
 10" Sch 40, 10.75" Dia, 0.365" wall, A53 35 ksi Steel Column, S=27.51 M=48.4
 8" L x 8" W x 0.25" wall, A500 48ksi HSS Steel Column, S=17.7 M=40.7



Acceptable Sign Support Columns
 direct, embedded type foundation
 Grade offset (ft)



Drilled Shaft Foundation
 3' dia x 7.8' deep
 or 2.5' dia x 8.4' deep
 or 2' dia x 9.1' deep

Cube Foundation
 5.5' cube, L=W=D

Spread Foundation
 5.5' long x 19' wide x 2.4' deep

Florida: FBC 7th Ed (2020), Sect 1609 wind ref ASCE 7-16
 140 Wind Speed, Vult, mph, from ASCE 7-16 Figure 26.5
 IV Risk Category: I, Low; II, Normal; III, Substantial Hazard; IV, Essential/Critical
 C Wind Exposure: C, House size structures for > 600 ft, D, no obstructions > 5000 ft
 Sand, silt, sand, clayey sand, silty gravel, clayey gravel
 Presumptive soil type
 WIND LOAD CALC: ASCE 7-16 Section 29.3.1, Solid Freestanding Signs
 Terrain: K_z = 1, no hill, ridge, or escarpment > 15 ft high, Obstructedly (K_z = 0.85, Gust G=0.35 rigid structure, K_z = 2.01 (H/90)/28.5, SLEPC, (703811.5)ECPD, q_w = 1020574, V_w = 140, V_w = 140, lead = 0.8W+0, D ≤ 15 psf

A	B	C	D	E	F
15.0	10.0				
20.0	1.8				
5.0	10.0				
100	18.3333				
0.85	0.85				
38.2	36.2				
1.80	1.65				
55.4	50.6				
33.2	30.5				
3.3	0.6				
41.5	2.8				
32.8	1.5				

14.0 ft OC Column Spacing
 3.88 kip Total Shear at Grade, V = Sum (F_{seg})
 44.3 kip-ft Total Moment at Grade, M = Sum (F_{seg} * L_{seg})
 2.91 kip Column Shear, V_c = Sum(F_{seg})
 34.1 kip-ft Column Moment at Grade, M_c = Sum(F_{seg} * L_{seg})
 1.21 ksi Total Shear at Grade, V = Sum (F_{seg})
 2.91 ksi Total Moment at Grade, M = Sum (F_{seg} * L_{seg})
 1.21 ksi Total Shear at Grade, V = Sum (F_{seg})
 2.91 ksi Total Moment at Grade, M = Sum (F_{seg} * L_{seg})
 1.21 ksi Total Shear at Grade, V = Sum (F_{seg})
 2.91 ksi Total Moment at Grade, M = Sum (F_{seg} * L_{seg})

Code Section 1807.3.2	Drilled Shaft Foundation, L=V=Q laterally unconstrained at grade	Cube Foundation	Spread Foundation
5.4	3.0	2.5	2.0
5.4	7.8	8.3	9.1
1.6	2.9	3.3	3.8
544	775	831	905

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SCOPE OF WORK: Design sign support column and foundation to meet structural requirements of building code based on stated (not verified) site factors and shape based on sign installer's drawing attached. By using this engineering the owner, manufacturer, and installer accept responsibility for: Design, build, attachment, electrical, etc. according to sign code, building code, and UL. Verify site conditions match stated wind speed, risk, exposure, topog, and soil factors or request engineering revision.

Signcraft & More, Inc
 JOB # 220547
 Pylon SIGN
 2 Columns, Centered & Embedded in Foundation
 Baya Pharmacy
 1465 US Hwy 90 West
 Lake City, FL
 UNO valid for one sign at this location.

