

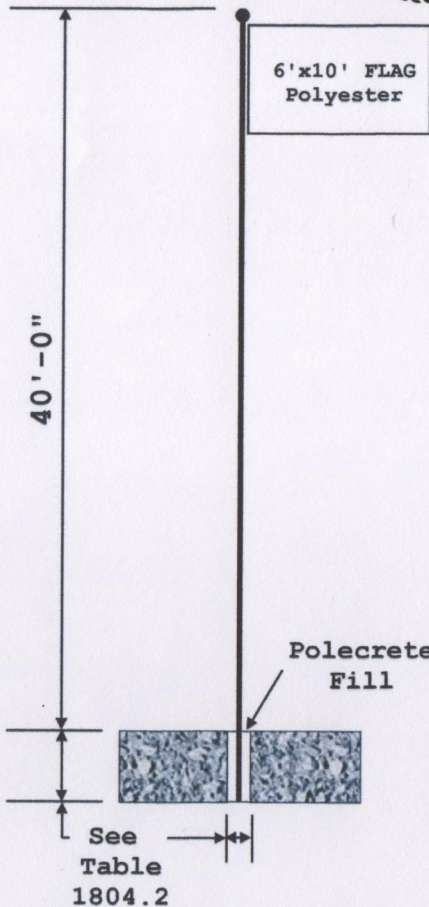
L. Troxell
7/18/2023

Notes:

1. Reference flagpole specifications = 5" diameter
2. Polecrete Stabilizer 4.0 pcf (polyurethane) BMK Manufacturing
 - a. Ultimate compressive strength = 80psi
3. Allowable Lateral soil bearing capacity = (See Table Below)
4. Foundation depth (SEE TABLE BELOW)
5. Design standards
 - a. Guide Specifications for Design of Metal Flagpoles FP 1001
 - i. Figure 3.2.2 Basic Wind Speed = 90 M/H
 - b IBC & UBC chapter 18 "Flagepole Footing Design"
6. Foundation Design (Soil Class Controls Design)
 - a. Soil pressure at polecrete interface (SEE TABLE BELOW)
 - b. Polecrete: allowable pressure (S_1) at soil interface = 5 ksf
 - c. Polecrete: allowable pressure at flagpole interface = 5 ksf

IBC 2006 Table 1804.2

Class of Materials	Lateral Bearing S_1 PSF/FT	Depth 1' dia.	Depth 1.5 dia.	Depth 2' dia.
Crystalline Bedrock	1200	4.06	3.53	3.2
Sedimentary and Foliated Rock	400	5.94	5.16	4.67
Sandy Gravel and/or Gravel (GW and GP)	200	7.57	6.57	5.94
Sand, Silty Sand, Clayey Sand, Silty Gravel and Clayey Gravel (SW, SP, SM, SC, GM and GC)	150	8.38	7.27	6.57
Clay, Sandy Clay, Silty Clay, Clayey Sil;t, Silt and Sandy Silt (CL, MI, MH and CH)	100	9.67	8.38	7.57



Site:	FLAGPOLE POLYCRETE FOUNDATION	Drawing:	S-0001	Project:	00101	Drawn:	LT	Notes:	Troxell Engineering San Marcos Tx 78666
Title:	FLAGPOLE FOUNDATION	Scale:	3/32":1'0"	Date:	07/17/2023	Rev:	A		