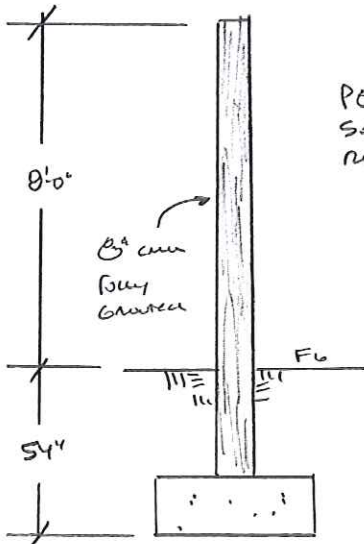


SCREEN WALL



Wind - 100 mph (3-sec gust) Exp B

PER
Soils
Report

SOIL BEARING = 4000 psf
 EFP = 65 psf
 P.P.
 SOIL/CORR COEFF (METAL) = 0.40
 SOIL UNIT WT = 130 psf

Wind acts on wall

$$F = q_z G C_f A_f \quad (6-27)$$

$$q_z = .00256 K_z K_{zt} K_d V^2 I \quad (6-15)$$

Ht. z at the centroid of area $A_f = 4$ ft

Exp = B

Exposure coefficient $K_z = 0.57$

6.5.6.6, T-6-3 for MWFR

Topography factor $K_{zt} = 1.00$

6.5.7.2

Directionality factor $K_d = 0.85$

Table 6-4

Wind Speed $V = 100$ mph

Importance factor $I_w = 1.00$

Table 6-1

$q_z = 12.40$ psf

Gust Effect factor $G = 0.85$

6.5.8

Force coeff $C_f = 1.6$

Figure 6-21 through 6-23

Design wind pressure, $F/A_f = 16.87$ psf

See next sheets →