

$$\bar{s}_u = \frac{d_c}{\sum_{i=1}^k \frac{d_i}{s_{ui}}} \quad (20.4-4)$$

where

$$\sum_{i=1}^k d_i = d_c$$

$d_c$  = the total thickness of cohesive soil layers in the top 100 ft (30 m)

$PI$  = the plasticity index as determined in accordance with ASTM D4318

$w$  = the moisture content in percent as determined in accordance with ASTM D2216

$s_{ui}$  = the undrained shear strength in psf (kPa), not to exceed 5,000 psf (240 kPa) as determined in accordance with ASTM D2166 or ASTM D2850