



Homework Chapter 6

Problems

- 6.1** For the following cases, determine the allowable gross vertical load-bearing capacity of the foundation. Use Terzaghi's equation and assume general shear failure in soil. Use $FS = 4$.

Part a: $FS := 4$ $B := 0.91 \text{ m}$ $D_f := 0.91 \text{ m}$ $c := 19.17 \frac{\text{kN}}{\text{m}^2}$ $\phi := 28 \text{ deg}$

From Table 6.1: Terzaghi's Bearing Capacity Factors:

$$\begin{aligned} \gamma &:= 17.29 \frac{\text{kN}}{\text{m}^3} \\ N_c &:= 31.61 & N_q &:= 17.81 & N_\gamma &:= 13.7 \\ S_c &:= 1 & S_q &:= 1 & (Strip) \\ q &:= D_f \cdot \gamma = 15.734 \frac{\text{kN}}{\text{m}^2} \\ q_{ult} &:= c \cdot N_c \cdot S_c + q \cdot N_q + 0.5 \cdot B \cdot \gamma \cdot N_\gamma \cdot S_\gamma = 993.962 \frac{\text{kN}}{\text{m}^2} \\ q_{all} &:= \frac{q_{ult}}{FS} = 248.49 \frac{\text{kN}}{\text{m}^2} \end{aligned}$$

Part b: $FS := 4$ $B := 1.5 \text{ m}$ $D_f := 1.2 \text{ m}$ $c := 0 \frac{\text{kN}}{\text{m}^2}$ $\phi := 35 \text{ deg}$

From Table 6.1: Terzaghi's Bearing Capacity Factors:

$$\begin{aligned} \gamma &:= 17.8 \frac{\text{kN}}{\text{m}^3} \\ N_c &:= 57.75 & N_q &:= 41.44 & N_\gamma &:= 45.41 \\ S_c &:= 1 & (Strip) \\ S_q &:= 1 \\ q &:= D_f \cdot \gamma = 21.36 \frac{\text{kN}}{\text{m}^2} \\ q_{ult} &:= c \cdot N_c \cdot S_c + q \cdot N_q + 0.5 \cdot B \cdot \gamma \cdot N_\gamma \cdot S_\gamma = 1491.382 \frac{\text{kN}}{\text{m}^2} \\ q_{all} &:= \frac{q_{ult}}{FS} = 372.845 \frac{\text{kN}}{\text{m}^2} \end{aligned}$$

Coughnowr Chapter6 Solution

Donald R. Coughanowr



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