

a) RESULT ECCENTRICITY (e)

$$AR = (1.8 - 0.9) + e$$

$$= 0.9 + e$$

$$BR = [2.4 - (1.8 + e)]$$

$$= 0.6 - e$$

$$P_A AR = P_B (B) R$$

$$194,400 (0.9 + e) = 363,400 (0.6 - e)$$

$$\boxed{e = 0.191 \text{ m}}$$



b) S.P. max



$$I_{yy} = \frac{1.8 (3.0)^3}{12}$$

$$A = (1.8)(3.0)$$

$$e = 0.191 \text{ m}$$

$$P_R = P_A + P_B$$

$$P_R = (194,400) + (363,400)$$

$$P_R = 557,800$$

$$\frac{P_R}{A} + \frac{P_R (e)}{I_{yy}}$$

$$= \frac{557,800}{1.8(3.0)} + \frac{557,800 (0.191)}{\left[ \frac{1.8 (3.0)^3}{12} \right]} \quad (18)$$

$$\boxed{S.P. \text{ max} = 101,723.25 \text{ kg/m}^2}$$

c) S.P. min

$$S.P. \text{ min} = \frac{P_R}{A} - \frac{P_R (e)}{I_{yy}}$$

$$= \frac{557,800}{1.8(3.0)} - \frac{557,800 (0.191)}{\left[ \frac{1.8 (3.0)^3}{12} \right]} \quad (18)$$

$$\boxed{S.P. \text{ min} = 52,599.74 \text{ kg/m}^2}$$

# Geotechnical Engineering Solve Problems

**S Marginson**



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