

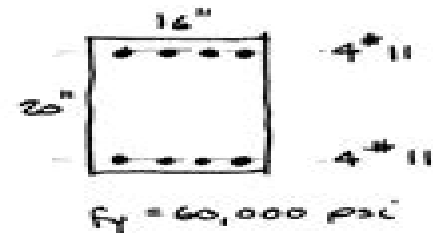
1.2

$$A_s = 8(1.56) = 12.48 \text{ in}^2$$

$$A_g = 320 \text{ in}^2 \quad A_c = 307.5 \text{ in}^2$$

$$n = 8 \quad E_s = 29,000,000 \text{ psi}$$

$$E_c = 3,600,000 \text{ psi}$$



• Same as  $f_y = 40,000$

- a)  $f_y = 40,000 \text{ psi}$
- $$P = 1200(307.5 + 8(12.48)) =$$
- $$= 489,000 \text{ lb}$$
- $$P_s = 1200(8)(12.48) = 120,000 \text{ lb}$$
- (24.5% P)
- b)  $\epsilon_y = 0.00140$ ,  $f_c = 3000 \text{ psi}$
- $$P = 3000(307.5) + 40,000(12.48)$$
- $$= 1,424,000 \text{ lb}$$
- $$P_s = 40,000(12.48) = 500,000 \text{ lb}$$
- (35.1% of P)
- c)  $f_c = 3400 \text{ psi}$  both cases
- $$P_u = 3400(307.5) + 40,000(12.48)$$
- $$= 1,547,000 \text{ lb}$$
- $$P_s = 500,000 \text{ lb}$$
- (32.3% of  $P_u$ )

$$\epsilon_y = 0.00207 \quad f_c = 3300 \text{ psi}$$

$$P = 3300(307.5) + 60,000(12.48)$$

$$= 1,766,000 \text{ lb}$$

$$P_s = 60,000(12.48) = 750,000 \text{ lb}$$

(42.5% of P)

$$P_u = 3400(307.5) + 60,000(12.48)$$

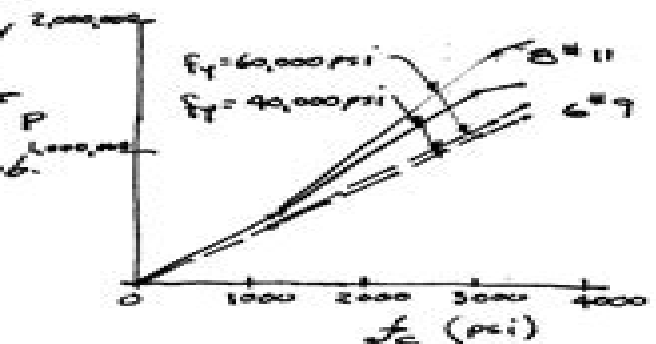
$$= 1,797,000 \text{ lb}$$

$$P_s = 750,000 \text{ lb}$$

(41.7% of  $P_u$ )

### Comments

1. There is no strength difference at  $f_y = 1200 \text{ psi}$
2. There is a 16% strength increase at ultimate using  $f_y = 60,000 \text{ psi}$ . This occurs at virtually no cost increase.
3. The higher steel ratio produces a stronger column - compare to prob. 1.1.



# Meigs And 14th Edition Solved Problems

**Michael Seilmaier**



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