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Date:		Company:	
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Description:			

4 - Calculate the FRP system design material properties

Environmental reduction factor C_E

$$C_E = \boxed{0.95} \qquad \text{(ACI 440.2R-08, Table 9.1)}$$

$$f_{fu} = C_E \cdot f^*_{fu}$$
$$f_{fu} = 237.5 \text{ ksi}$$

$$\varepsilon_{fu} = C_E \cdot \varepsilon^*_{fu}$$
$$\varepsilon_{fu} = 0.0124 \text{ ksi}$$

5 - Existing Beam Properties

β_1 from ACI 318-11, § 10.2.7.3:

$$\beta_1 = \begin{cases} \text{for 2500 psi} \leq f'c \leq 4000 \text{ psi}, \beta_1 = 0.85 \\[2mm] \text{for } f'_c > 4000 \text{ psi}, \beta_1 = 0.85 - 0.05\left(\dfrac{f'_c - 4000}{1000}\right) \\[2mm] \text{but } \beta_1 \text{ shall not be less than 0.65} \end{cases}$$

therefore, $\qquad \beta_1 = 0.8$

Modulus of Elasticity of Normal Weight Concrete, E_c

$$E_c = 57{,}000\sqrt{f'_c} \qquad \text{(ACI-318-11, § 8.5.1)}$$
$$E_c = 4030.5 \text{ ksi}$$

The modular ratio of elasticity between steel and concrete, n_s

$$n_s = \frac{E_s}{E_c}$$
$$n_s = 7.2$$

6 - Existing strain on the beam soffit

Using cracked beam analysis, calculate the depth to the neutral axis, y, and the moment of inertia of the cracked section, I_{cr}

Ratio of steel reinforcing to the concrete section

$$\rho_s = \frac{A_s}{b \cdot d}$$
$$\rho_s = 0.01163$$

Ratio of FRP reinforcing to the concrete section

$$\rho_f = \frac{A_f}{b \cdot h}$$
$$\rho_f = 0.00186$$

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