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MATERIA: Analisis de estructuras

Grupo: Arquitectura

Grado: 5

$$2.18 \text{ +/m}$$

N Z

$$1.8 (2.184) (4.10 \text{ m})^2$$

$$M = 4.801 \text{ +/m}^2$$

$$T_{on} = 1000 \text{ Kg}$$

$$\text{Momento } 480.70$$

$$M_u = 4.801 \times 1.2^2 = 516.840$$

$$h = \frac{L}{12} = \frac{4.1}{12} = 0.35 \text{ m}$$

$$q = \frac{\sqrt{516.840}}{.9 \times 20 \times 31^2 \times 436 (Z) + 1}$$

$$q = 0.2138$$

$$p = \frac{(-94) (F^{\wedge} C)}{F_y} = \frac{(-0.2138 \times 10) 126}{4000}$$

$$= \frac{38.4232}{4000} = 0.00976$$

$$A_s = 0.00976 (20 \text{ cm}) (31 \text{ cm}) = 5.741 \text{ cm}^2$$

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$$M = \frac{42(4.8)}{2} = 341$$

$$W = 341(1) = 409,200$$

$$A = \frac{409,200}{\sqrt{0.9 \times 20 \times 36 \times 136}} = 3.81 \text{ cm}^2$$

$$3 \#4 = 3.81 \text{ cm}^2$$

$$A = \frac{0.000735(20)(36)}{4} = 1.62$$

$$\frac{1.2}{.15} = 8$$

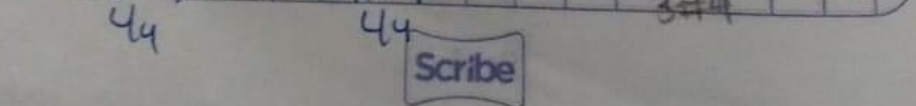
$$2 \#4 = 2.54 \text{ cm}^2$$

$$E_{st} = 26 \text{ pi}(104) = 24 \times 16 = 297$$

$$247 = 3 \text{ pi}$$

$$OCR = RH = RB = \frac{3(1.42)}{2} = 2.03$$

$$DW = 2.3(1.4) = 2.982 \rightarrow UCR = 1.5(1.6) \cdot 20 = 35 \sqrt{1.702} = 0.38$$



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