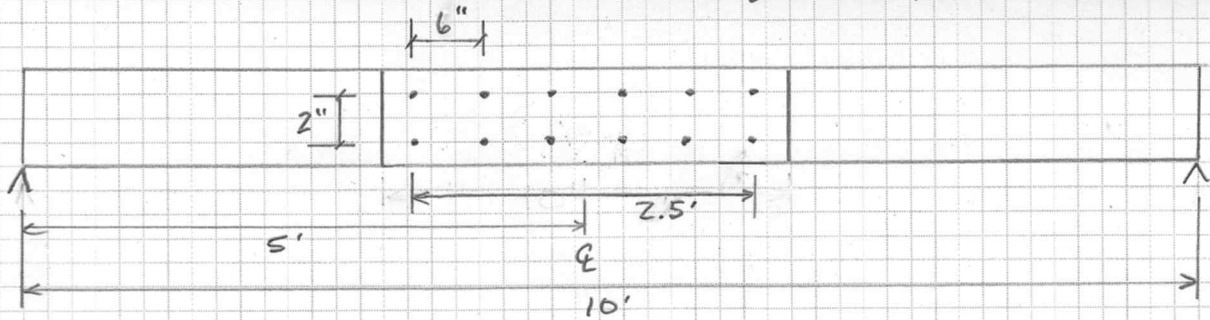


W = 80 PLF



$$M = \frac{80 \text{ PLF} (10')^2}{8} \times 12 \frac{1}{8} \text{ ft} = 12000 \text{ IN-LB}$$

$$I_x = 2(3)^2 + 2(9)^2 + 2(15)^2 = 630 \text{ IN}^2$$

$$I_y = 2(1)^2 = 2 \text{ IN}^2 \longrightarrow (\Sigma? \therefore 2 \times 3 = 6?)$$

$$I_p = 630 + 2 = 632 \text{ IN}^2$$

$$\Gamma_{my} = \frac{12000 \text{ IN-LB} (15'')}{632 \text{ IN}^2} = 285 \text{ LB}$$

$$P = 80 \text{ PLF} (10') = 800 \text{ LB}$$

$$\Gamma_{py} = \frac{P}{n} = \frac{800 \text{ LB}}{12 \text{ NAILS}} = 67 \text{ LB}$$

$$\Gamma_{mx} = \frac{12000 (1)}{632} = 19 \text{ LB}$$

$$\Gamma = \sqrt{(285 + 67)^2 + 19} = 352 \text{ LB}$$