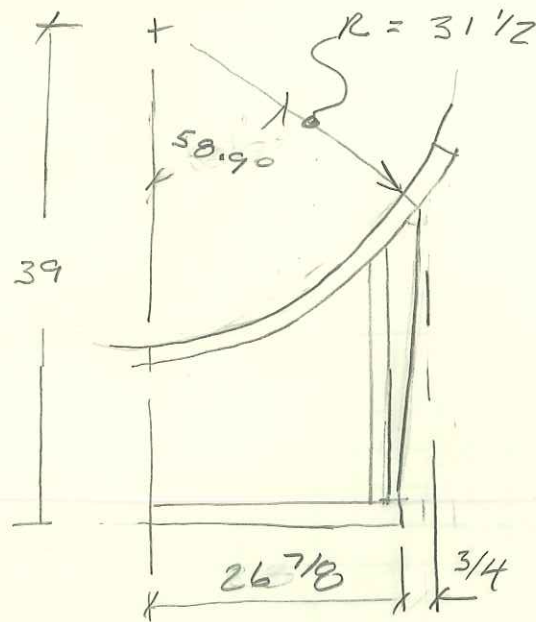


SUPPORT BENDING



$$\alpha = 58.9^\circ$$

$$R = 31.50$$

$$\frac{R \sin \alpha}{\alpha} = \frac{R(.8563)}{1.028}$$

$$= 26.24$$

$$L_A = L_p - \frac{R \sin \alpha}{\alpha}$$

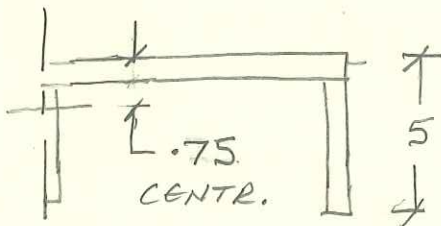
$$= 39 - 26.24$$

$$= 12.76$$

$$\text{BUNDLE WT} = 7642$$

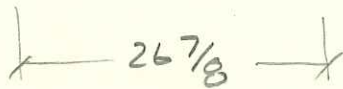
$$1.5 W_B \approx 11500$$

$$M = 11500(13) = 149500$$



$$I = 45.67 \text{ in}^4 \checkmark$$

$$C = 3.75 \checkmark$$



$$G = \frac{MC}{I} = \frac{149500(3.75)}{45.67}$$

$$G \approx 12280 \text{ PSI}$$

$$80\% S_y = 30,400$$