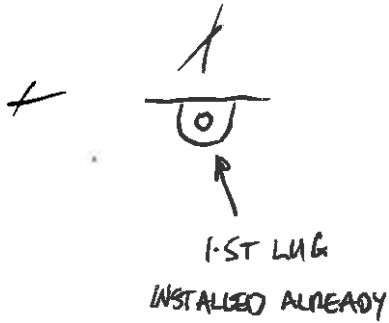


3500



7000



$$M^* = N^* \times l \rightarrow \text{assumed plate width } (B) = 400 \text{ mm}$$

$$M^* = 455 \times \frac{8}{2}$$

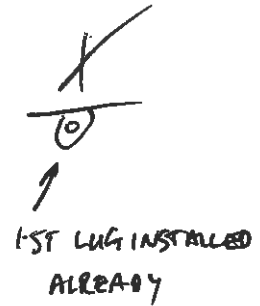
$$M^* = 91 \text{ kN.m}$$

$$\text{Let } M^* = \phi M_s$$

$$\phi M_s = \phi f_y \frac{bt^2}{4}$$

$$t \geq \sqrt{\frac{4 \times \cancel{\phi} M_s}{f_y \times \phi \times b}}$$

$$\therefore \underline{t \geq 82 \text{ mm}} \quad ???$$



7000

$$\theta = \tan^{-1} \left( \frac{1750}{2000} \right)$$

$$\theta = 14.03^\circ$$

$$\beta = 90 - 14.03$$

$$= 75.9^\circ$$

F.B.D.

