

Date

Sheet No.

of

Job

Subject

Reference

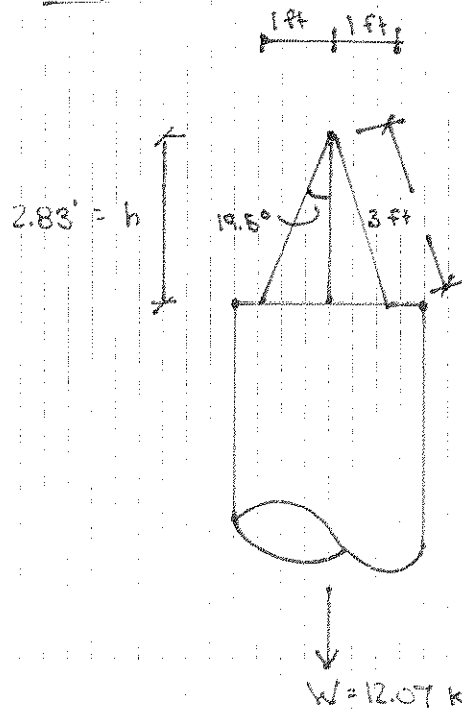
T = tension in sling

$$\sum F_y = 0 \Rightarrow W = 3T \cos 19.5^\circ,$$

$$2.83 T = W, T = 0.354 W, \text{ or } 35.4\% W$$

$$\therefore T = 0.354(12.07) = \underline{4.27 \text{ k}}$$

\Rightarrow \therefore each member ^{receives} supports 4.27 k
in axial tension



$$h = \sqrt{3^2 - 1^2} = \underline{2.83 \text{ ft}}$$

$$\theta = \tan^{-1}\left(\frac{1}{2.83}\right) = 19.5^\circ$$