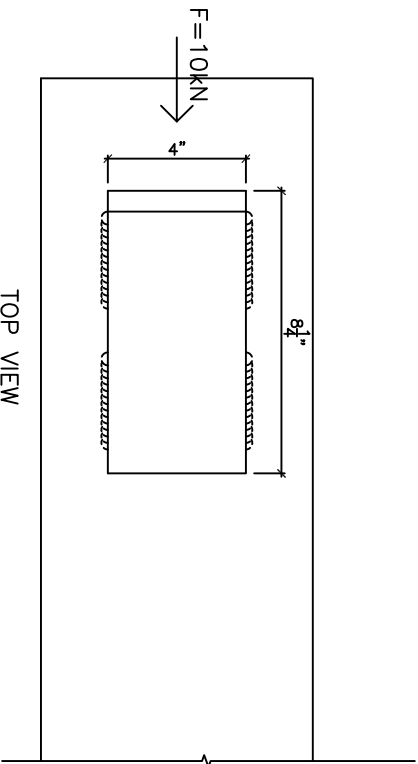
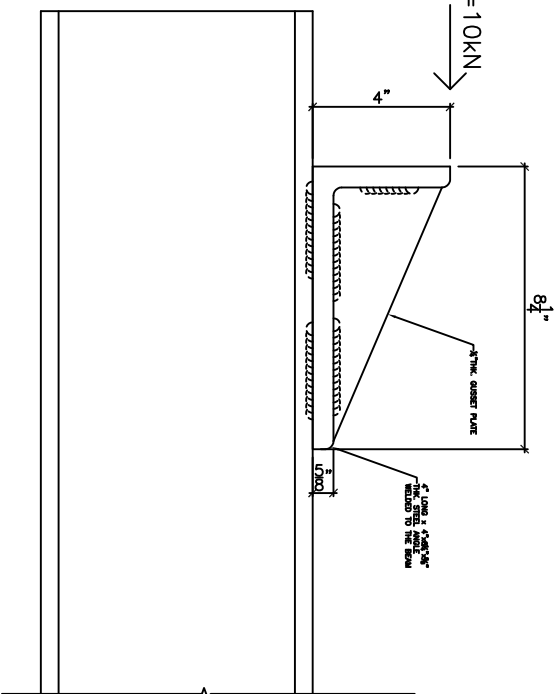


SIDE VIEW

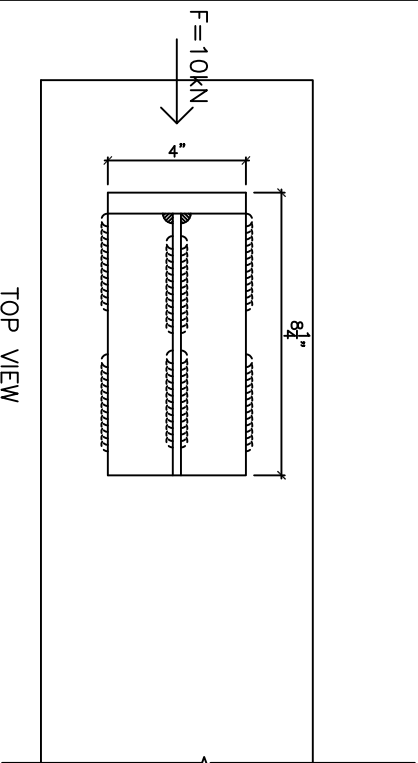


TOP VIEW

WITHOUT GUSSET PLATE



SIDE VIEW



TOP VIEW

WITH GUSSET PLATE

$b := 4 \text{ in}$ Steel Angle Width

$t := \frac{5}{8} \text{ in}$ Steel Angle Thickness

$F_y := 260 \text{ MPa}$ Steel Yield Strength

$S := \frac{(b \cdot t^2)}{6} = 0.26 \text{ in}^3$ Section Modulus

$M_f := 1.4 \cdot 10 \text{ kN} \cdot 4 \text{ in} = 1.422 \text{ kN} \cdot \text{m}$ Factored Moment

$M_r := 0.9 \cdot S \cdot F_y = 0.999 \text{ kN} \cdot \text{m}$ Moment Resistance

$CSR := \frac{M_f}{M_r} = 1.424$ <- Not Ok