

$$v < \frac{f_v}{\gamma_{mv}} = \left[0.35 + 17.5 \frac{A_s}{bd} \right] \cdot \left[2.5 - 0.25 \frac{M}{Vd} \right]$$

$$\frac{f_v}{\gamma_{mv}} = \left[0.35 + \frac{17.5 \times 503}{1000 \times 230} \right] \cdot \left[2.5 - \frac{0.25 \cdot 15.73}{19.67 \times 103 \times 230} \right]$$

$$\frac{f_v}{\gamma_{mv}} = 0.97 > v \quad 0.083 \quad \checkmark \quad OK$$

Anchorage

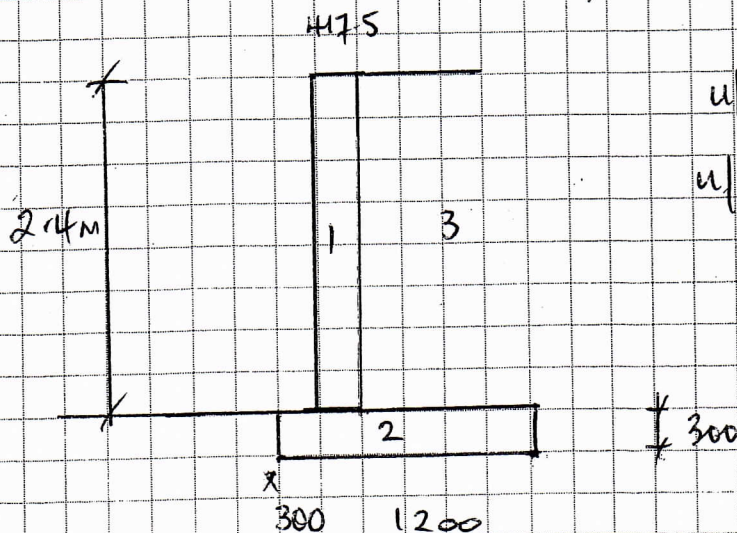
$$\text{Anchorage length} = \frac{A_s \cdot f_y \cdot \gamma_{mb}}{f_b \cdot \gamma_{ms} \cdot \pi \cdot d}$$

$$\gamma_{mb} = \text{partial safety factor} = 1.5$$

$$f_b = \text{characteristic bond strength} = 1.8.$$

$$l_a = \frac{\pi \times (4^2) \times 460 \times 1.5}{1.8 \times 1.15 \times \pi \times 8} = 667 \text{ mm.}$$

Overall stability to CP2



$$u/E \text{ o/T Moment} = 11.23 \text{ kNm}$$

$$u/E \text{ Force} = 14.05.$$