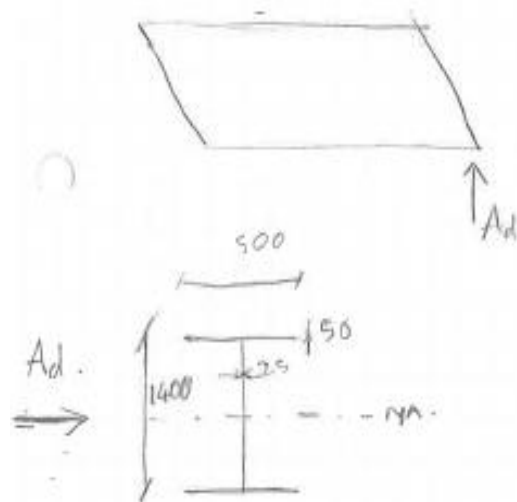


$$V_A = 1.0$$

$$A_d = 410 \text{ kN. } (\leq 45 \text{ mph.}) \text{ other urban road.}$$



- consider impact on superstructure near support in edge beam

$$A = 82500 \text{ mm}^2$$

$$\varepsilon = 0.84$$

class 1 section - plastic

$$f_y = 335 \text{ N/mm}^2$$

$$\gamma_{M_0} = 1.05$$

check section for shear.

$$\frac{V_{ed}}{V_{LRd}} \leq 1.0$$

$$V_{pl,Rd} = \frac{A_v (f_y / \sqrt{3})}{\gamma_{M_0}} = 3223.5 \text{ kN}$$

(parallel to flanges - welded section)

$$A_v = A - \sum (h_w t_w) = 82500 - (1300 \times 50) = 17500 \text{ mm}^2$$

$$V_{pl,Rd} \gg V_{ed} \text{ ok.}$$