

3. VIGAS POSITIVAS

3.1.- CARGAS Y MOMENTOS MAXIMOS V. INT. a) $s = 3.7 \text{ m}$
SON 4 VIGAS $L_v = 33.10 \text{ m}, L_a = 32.37 \text{ m}, H = 2.00$

$$\begin{aligned} \text{PP VIGA} & 0.771 \times 2.5 & = 1.928 \text{ TM } M_{PN} = 752.5 \text{ TM} \\ \text{PP SOBRECARGA} & 0.20 \times 3.7 \times 2.5 & = 1.850 \text{ } M_{P} = 242.3 \\ \text{PP P+BDP} & (0.53 \times 2.5 + 0.06 \times 2.4 \times 11) / 4 & = 0.947 \text{ } M_{BDP} = 97.9 \\ & + 0.04 \times 2 & \end{aligned}$$

SUPERCARGA, CARGA DE RUEDA DE DISCO
VEHICULAR $P_d = 1.2 \times C_d \times C_f \times P_r = 19.737 \text{ ton}$
CAMION

CON: $\frac{s}{L_A} = 0.114$ $C_d = 1 + 15.27/L_A + 78 = 1.217$ $M_{AC} = 307.4$

$\frac{kg}{Lat^3} = 3.808$ $C_f = 1 + 15.27/L_A + 78 = 1.217$ $M_{AC} = 307.4$

STURGE SPECIFICATIONS FOR
DISTRIBUTION OF LOADS
FOR HIGHWAY BRIDGES ASHTO 1994

3.2.- PROPIEDADES MECANICAS

ELEM'S	3. HORN. + $M_d \times 270.6'' \times 0.114 + \frac{1.80 \times 7/10}{R 3.70 \times 20} \times u_e$
-3φ80 @ 100	
R 63 x 3.5	$A = 0.9582 \text{ m}^2$
D 7 x -3.5	$\gamma_c = 1.0932 \text{ m}$
R 70 x 16.5	$\gamma_f = 0.400534 \text{ MY}$
D 50 x 25	$W_p = \frac{113}{425630}$
R 20 x 170	$W_s = 0.471709$
D 120 x -15	$W_i = 0.366381$
R 140 x 10	

$f'_c = 300 \text{ kg/auz}$ $\{ n_g = 7/12 \}$ $n_c = \sqrt{\frac{250}{250}}$

$E'_c = 277 \text{ ton/auz}$

$E'_s = 1970$

3.3.- TENSIONES Y POSITIVAS

$$P_v + P_{SE} = VACIO + sL \cdot (P+BDP) = P_{DM} + sE = SEV.$$

