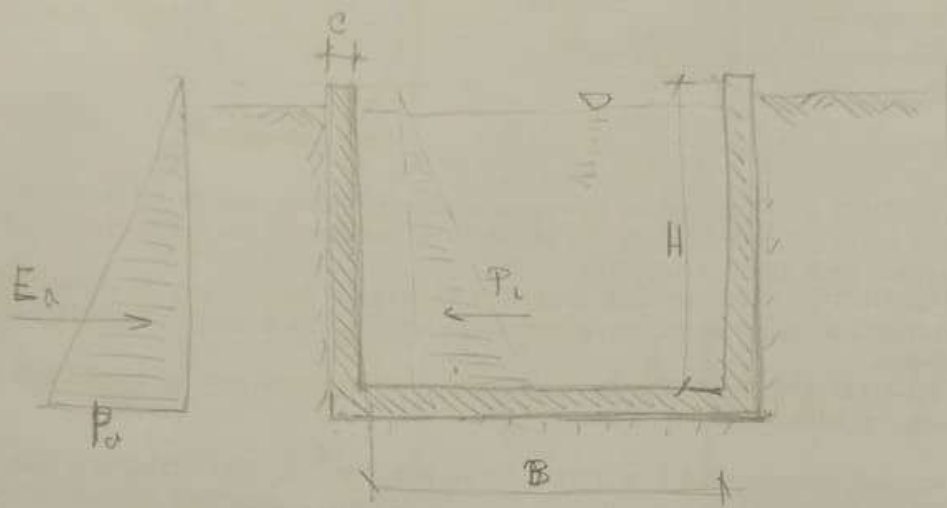


CANALES Y ALCANTARILLAS

C. FRANCO (1)

1) CANALES



1) Acciones

0) Peso propio { Paredes
{ Loso Fondo

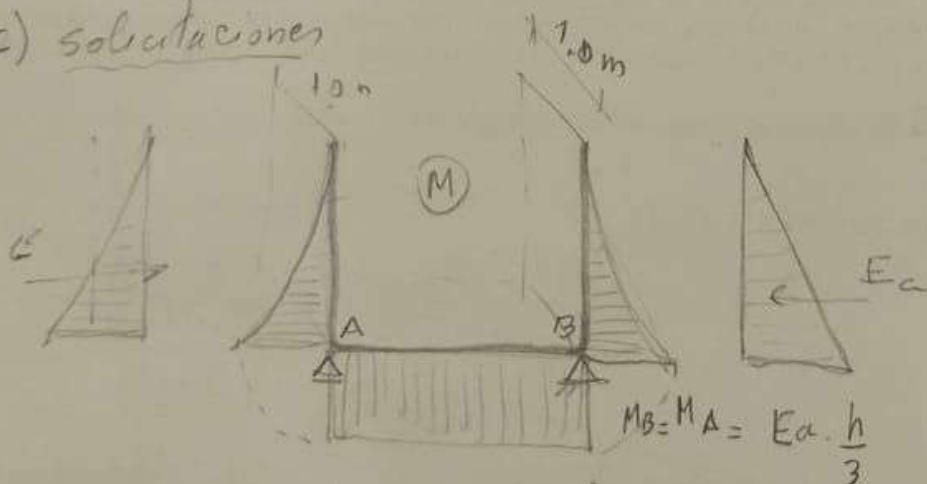
2) Presión Líquida

$$p_L = \gamma h \quad P_L = \frac{\gamma \cdot h^2}{2}$$

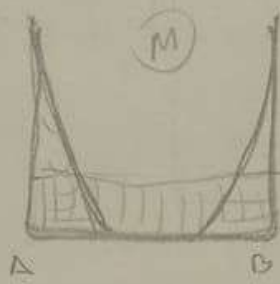
3) Empuje de Suelos

$$P_o = k_a \gamma \cdot h \quad E_a = k_a \gamma \cdot \frac{h^2}{2}$$

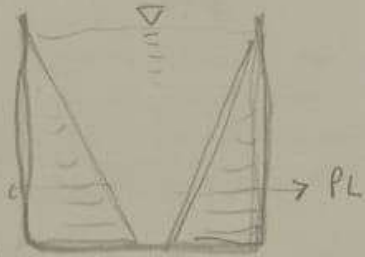
2) Solicitaciones



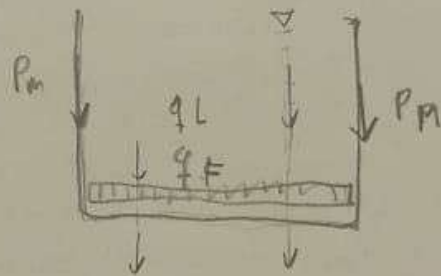
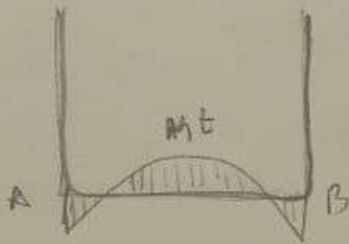
Empuje suelos



Presión Agua



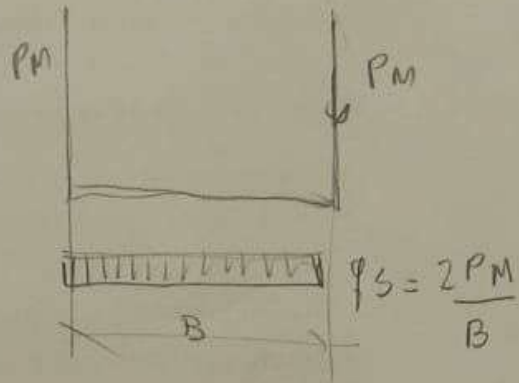
$$M_A = M_B = PL \frac{h}{3}$$



$$M_A = M_B = q_s \frac{B^2}{12}$$

$$M_E = q_s \frac{B^2}{24}$$

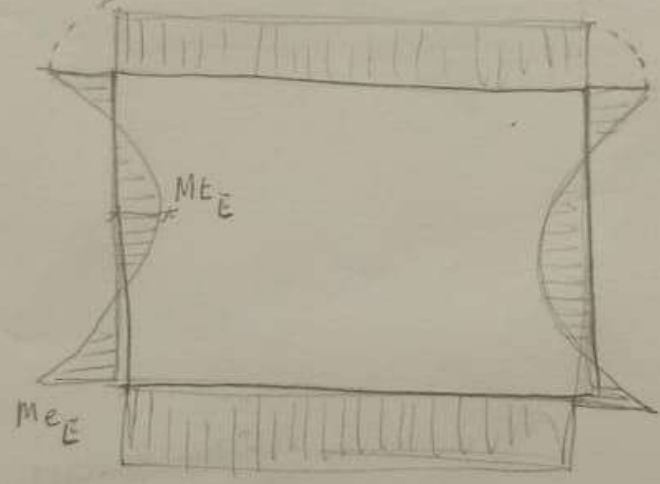
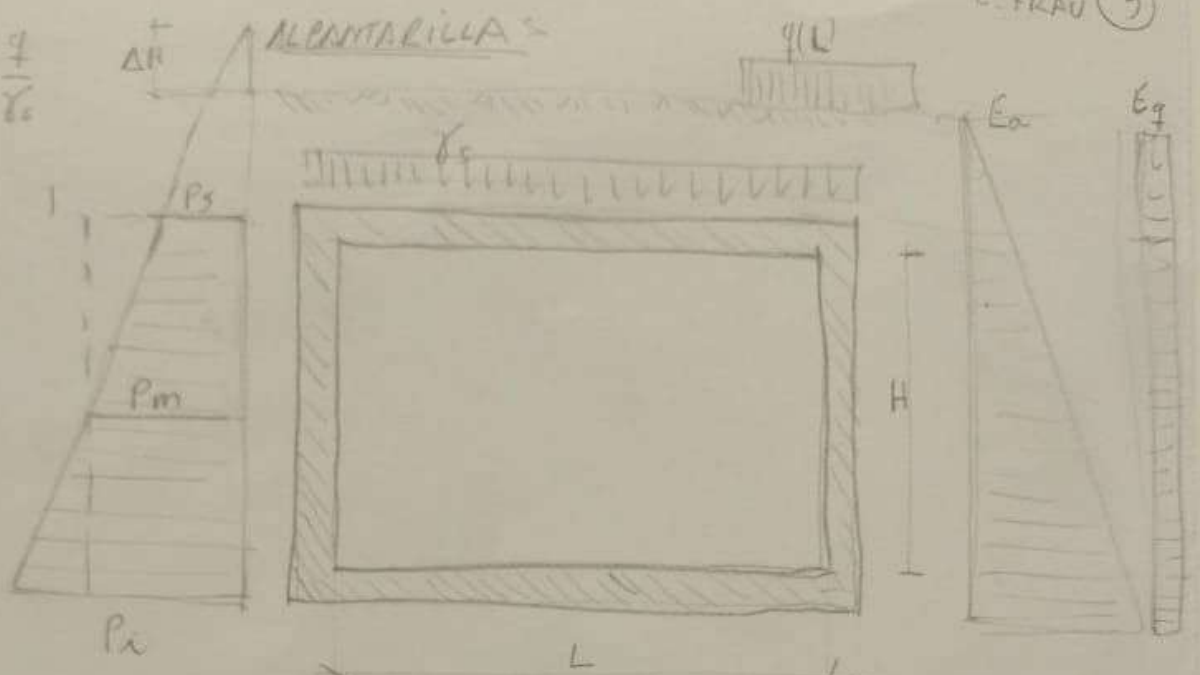
Combinac. Accions \rightarrow $\left\{ \begin{array}{l} D + E_a \\ D + PL \end{array} \right.$



3) ARMADURAS

- Recubrimientos - Hormigón de Limpieza
- A.rep. \rightarrow Retracción
- A.ppal \rightarrow s/calculs \rightarrow P.min
- Detalle Mueb. \rightarrow
- C.mputo - H. - A. Encafrado
- Despiece de Barra
- Juntas $\left\{ \begin{array}{l} Retracción \\ Dilatación \end{array} \right.$

$$\Delta H = \frac{q}{\gamma_c}$$



$$M_{eE} = \frac{p_m \cdot H^2}{12}$$

$$M_{tE} = \frac{p_m \cdot H^2}{24}$$

