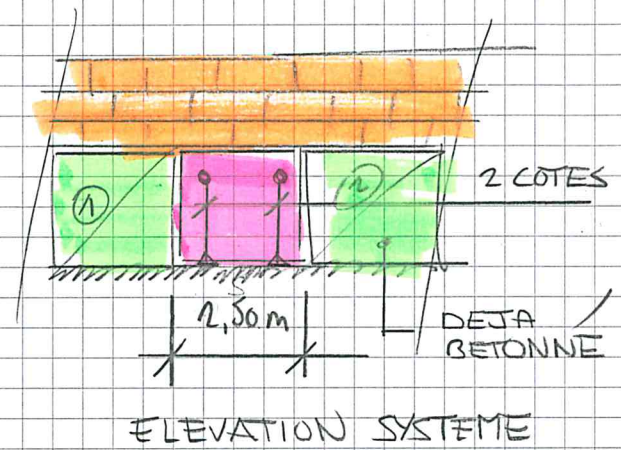
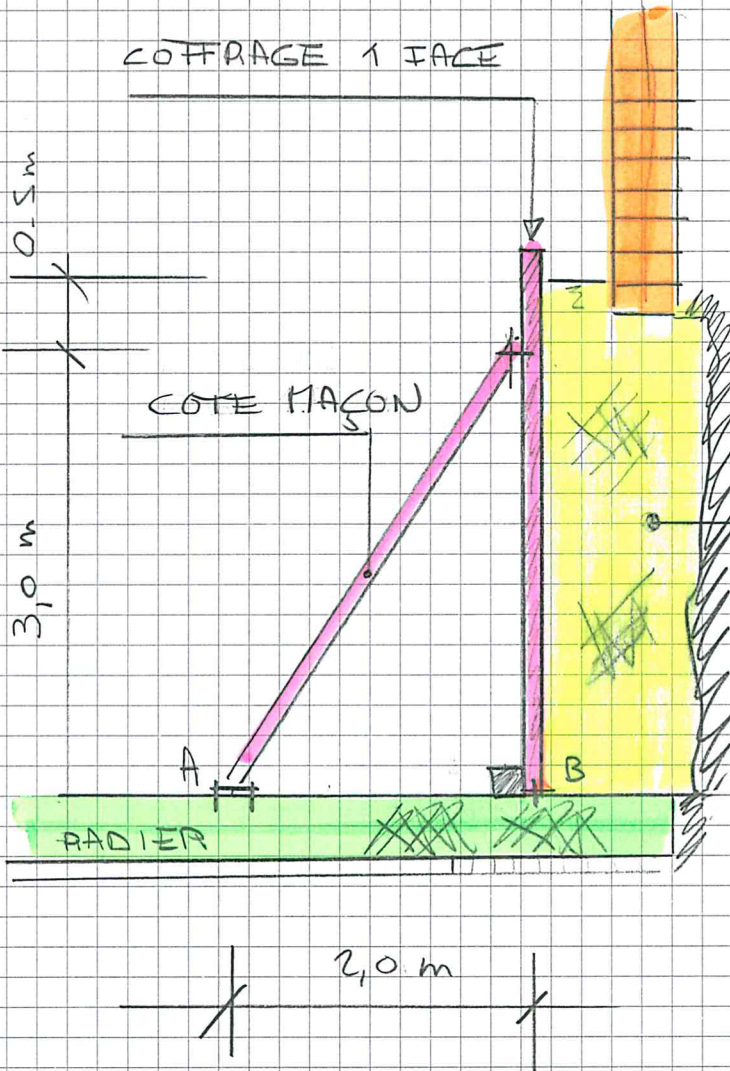
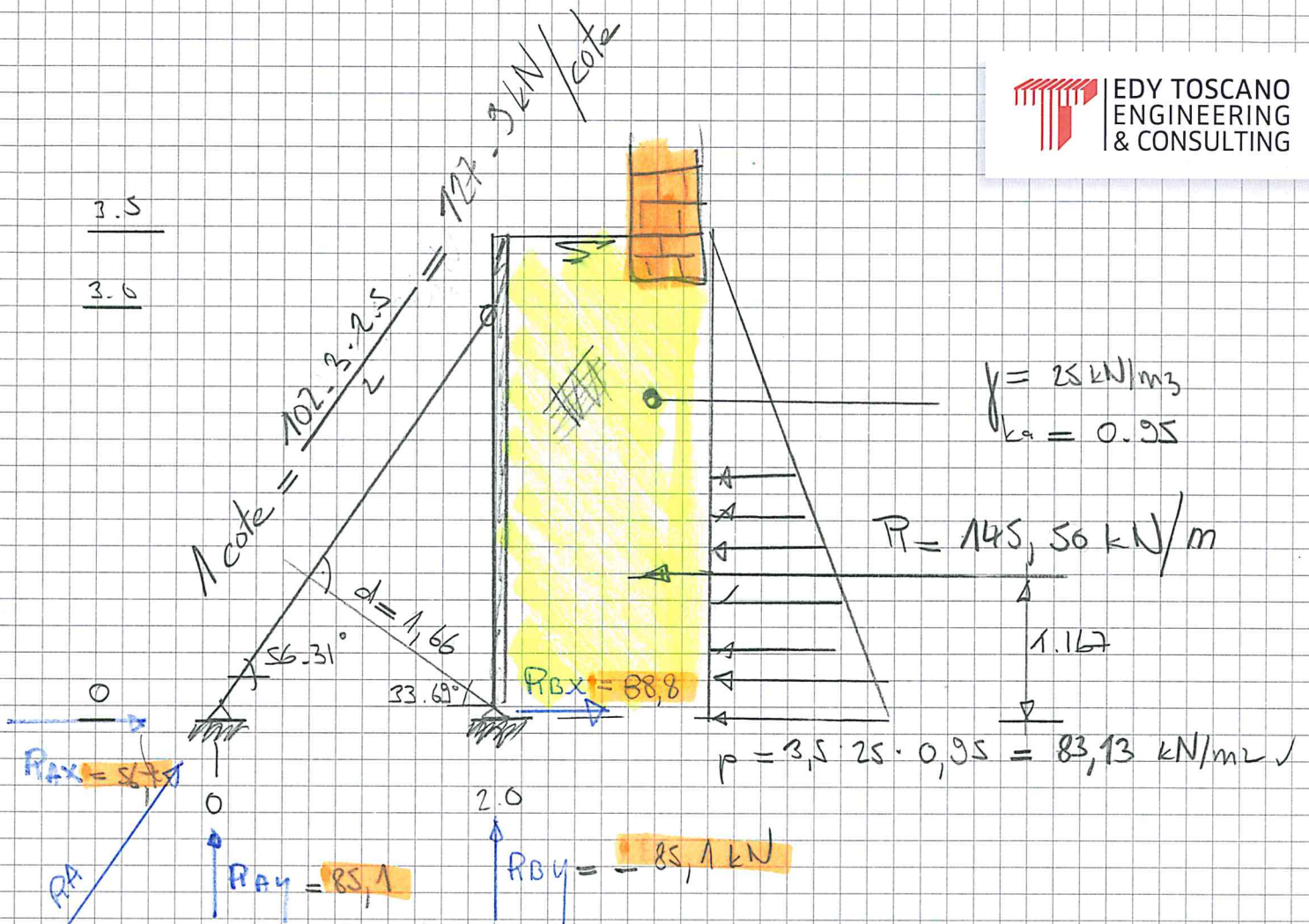


REPRISE EN SOUS-ŒUVRE



beton $\gamma = 25 \text{ kN/m}^3$
 $k_a \approx 0,95$

- Questions :
- 1- Quelles sont les réactions d'appuis R_{Ax} , R_{Ay} , R_{Bx} , R_{By} ?
 - 2- Quelle est la force dans la cote de maçon en kg ?



Calcul pour 1m :

$$\begin{aligned} \sum F_x = 0 & \quad R_{Ax} + R_{Bx} - 145,50 = 0 \\ & \quad R_{Ax} + R_{Bx} = 145,50 \text{ kN} \\ \sum F_y = 0 & \quad R_{Ay} + R_{By} = 0 \\ \sum M_B = 0 & \quad - (R_A \cdot 1,66) + (145,50 \cdot 1,17) = 0 \\ & \quad - R_A = - \frac{170,24}{1,66} = 102,26 \text{ kN/m} \\ R_{Ax} & = 102,26 \cdot \cos 56,31^\circ \approx 56,70 \text{ kN} \\ R_{Ay} & = 102,26 \cdot \sin 56,31^\circ \approx 85,10 \text{ kN} \\ R_{Bx} & = 145,50 - 56,70 = 88,80 \text{ kN} \\ R_{By} & = -85,10 \text{ kN} \end{aligned}$$