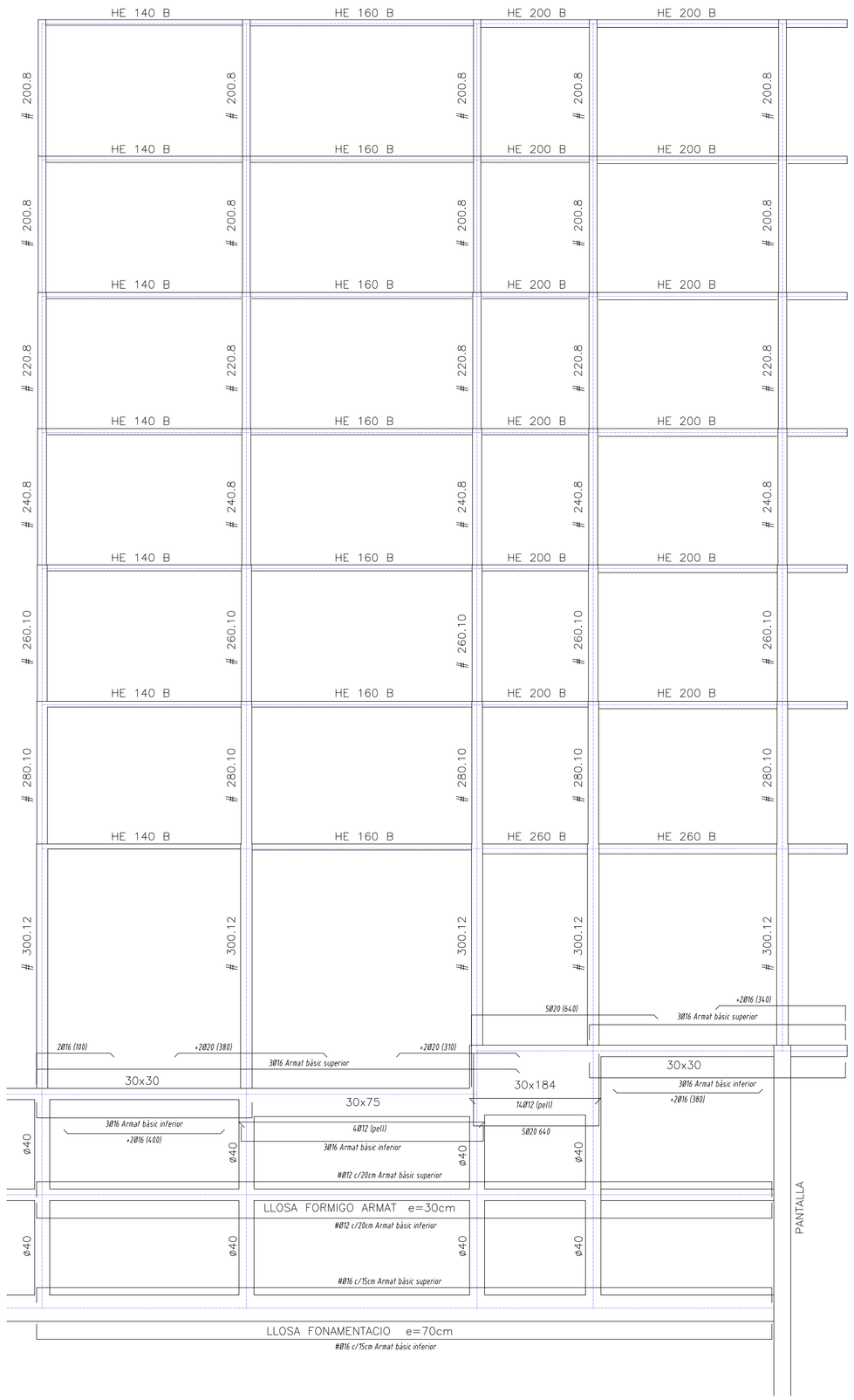
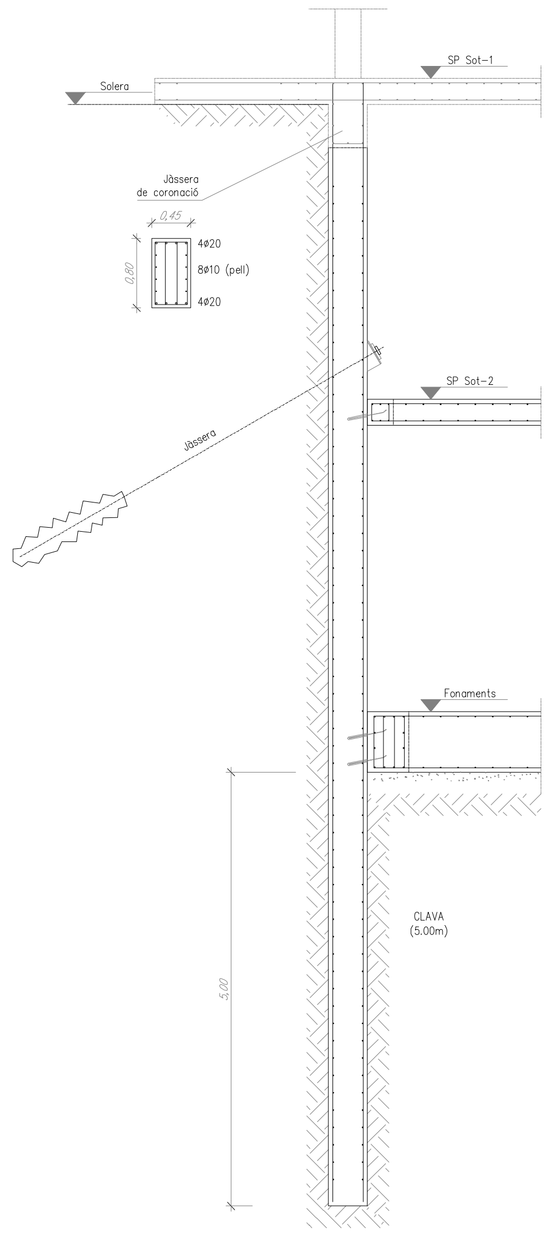


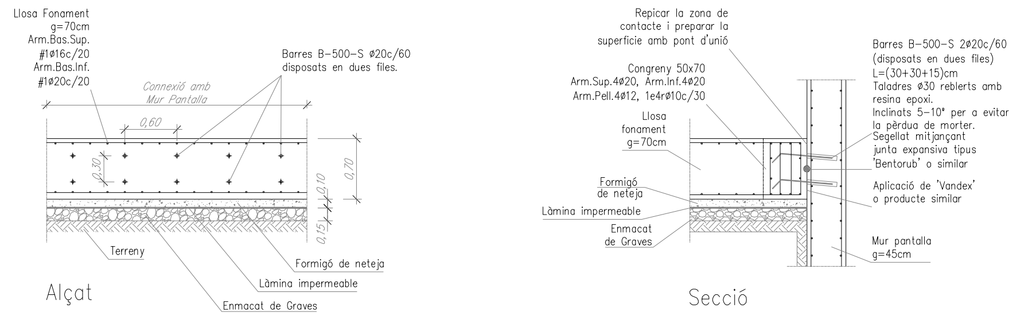
SECCIÓ PÒRTIC

ESC 1/100



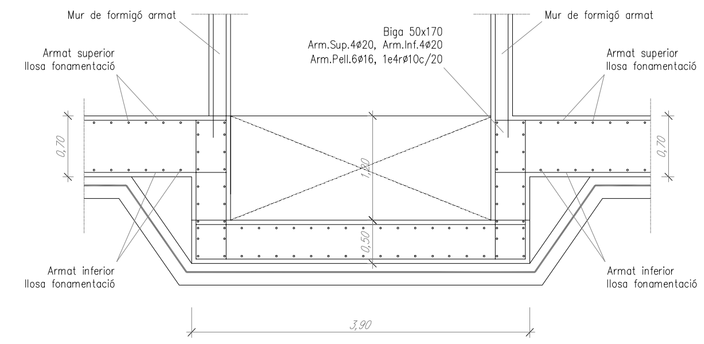
SECCIÓ MUR PANTALLA

ESC 1/50



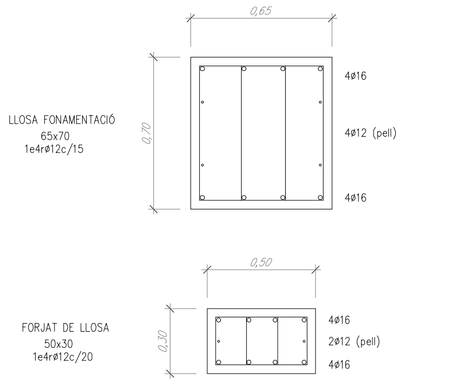
CONNEXIÓ LLOSA FONAMENT I PANTALLA

ESC 1/50



DETALL FOSSAT ASCENSOR

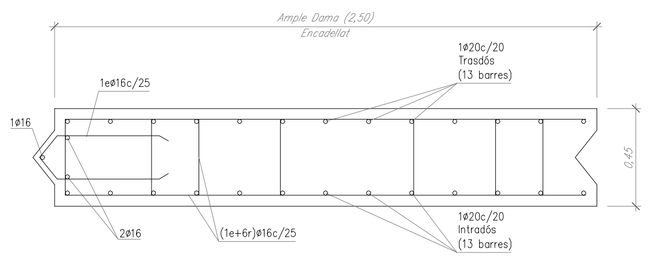
ESC 1/50



LONGITUD BRAÇ DE CREUETA: 1.20m DESDE EIX PILAR

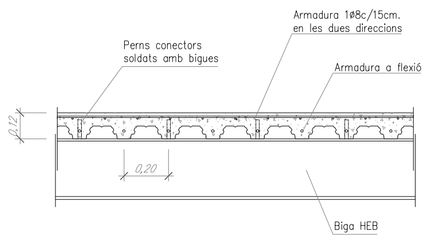
DETALL CREUETES FORMIGÓ

ESC 1/20



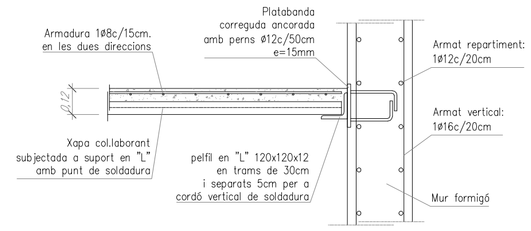
DETALL MUR PANTALLA

ESC 1/20



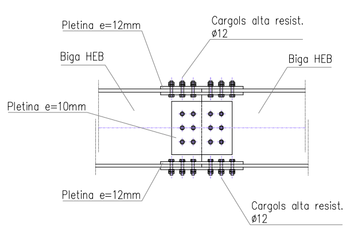
DETALL FORJAT COL.LABORANT

ESC 1/20



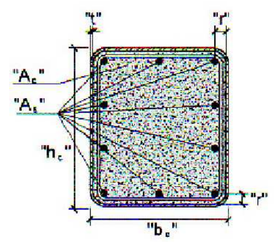
DETALL UNIÓ FORJAT–MUR FORMIGÓ

ESC 1/20



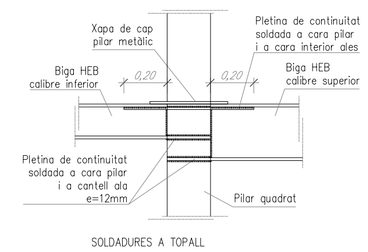
DETALL CONTINUITAT BIGA

ESC 1/20



DETALL PILARS METÀLICS VISTOS

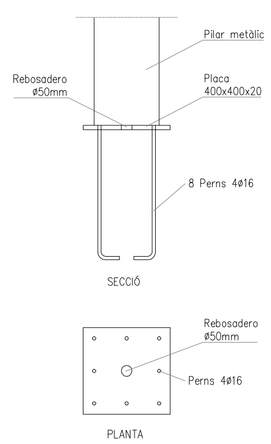
S/E



SOLDADURES A TOPALL

DETALL UNIÓ BIGUES DIFERENTS AMB PILAR METÀLIC

ESC 1/20



DETALL PLACA ANCORATGE

ESC 1/20

COMPROVACIÓ PILARS EXTREMS PEL MÈTODE DEL PANDEIG

Partint dels esforços obtinguts al programa de càlcul CYPE i a les característiques geomètriques del perfil, es realitzen les comprovacions tensionals pertinents:

$N_z = 96,80T$; $M_1 = 2,18mT$; $M_2 = 1,54mT$; $T_y = 0,49T$

$I_x = 19.143,4752cm^4$; $W_x = 1.276,2317cm^3$; $A = 138,24cm^2$; $i_x = 11,7677cm^2$; $\omega = 1,10$

-Tensió axial:

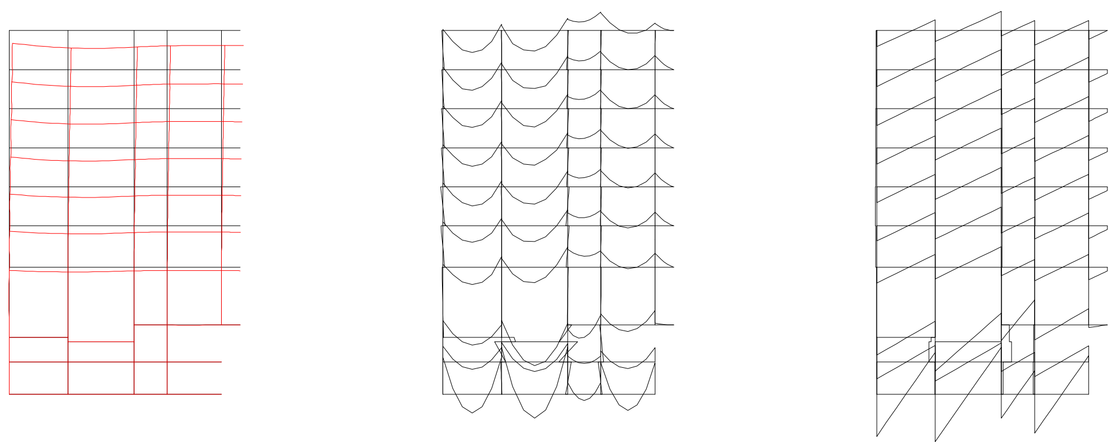
$$\sigma_z = \omega \cdot \frac{N_z}{A} + \frac{M_1}{W_x} + \frac{M_2}{W_y}$$

$$\sigma_z = 1,10 \cdot \frac{96,80 \cdot 10^3 \cdot 1,50}{138,24} + \frac{2,18 \cdot 10^5 \cdot 1,50}{1276,2317} + \frac{1,54 \cdot 10^5 \cdot 1,50}{1276,2317} = 1592,6065 \frac{Kp}{cm^2}$$

-Tensió tangencial:

$$\tau_y = \frac{T_y}{A} \cdot \tau_y = \frac{0,49 \cdot 10^3 \cdot 1,50}{138,24} = 5,3168 \frac{Kp}{cm^2}$$

EN CAP DEL CASOS ES SUPEREN LA TENSIÓ ADMISSIBLE DEL MATERIAL.



DEFORMADA, ESFORÇ A FLEXIÓ I ESFORÇ TALLANT DE PÒRTIC

ESC 1/400

HOTEL AL BARRI DE LES CORTS

Tribunal: Xavier Monteys / Xavier Sauquet / Joan Ramon Blasco

PORTIC I DETALLS

esc.: 1/ 100 - 1/50 - 1/20

E02

PFC - Qm Primavera 09-10

jordi ant. gonzález gómez