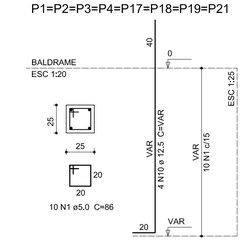
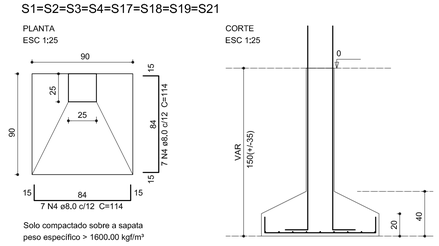
P1=P2=P3=P4=P17=P18=P19=P21

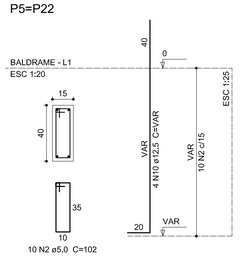


S1=S2=S3=S4=S17=S18=S19=S21

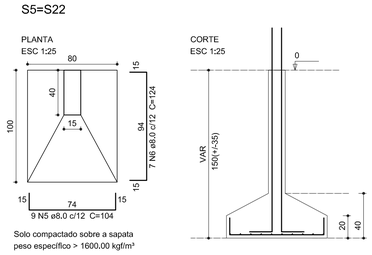


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P5=P22

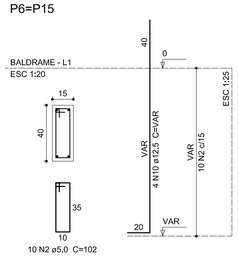


S5=S22

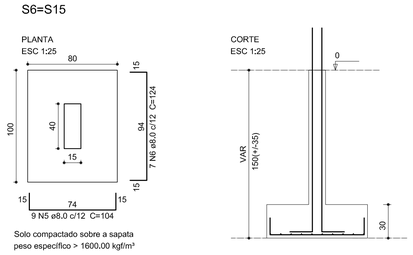


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P6=P15

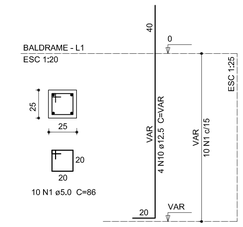


S6=S15

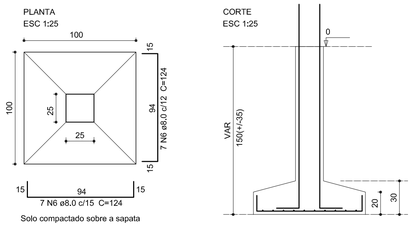


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P7=P8=P9=P10=P11=P12=P13=P14

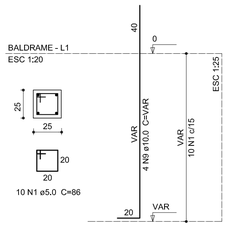


S7=S8=S9=S10=S11=S12=S13=S14

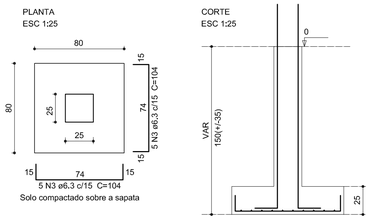


7 N6 ø8.0 c/15 C=124
Solo compactado sobre a sapata

P16

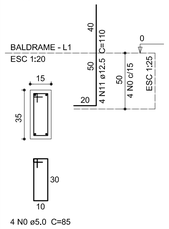


S16

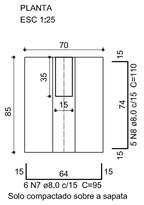


5 N3 ø6.3 c/15 C=104
Solo compactado sobre a sapata

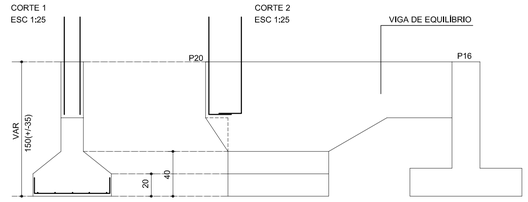
P20



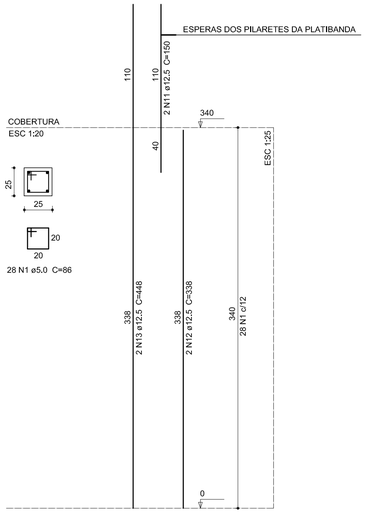
S20



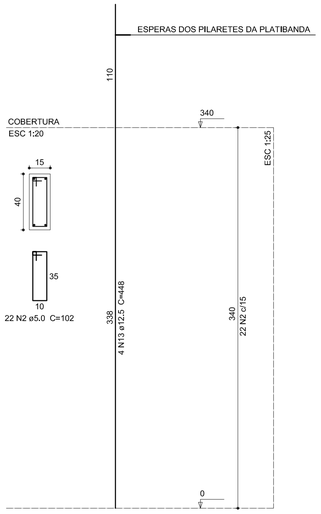
6 N7 ø8.0 c/15 C=95
Solo compactado sobre a sapata



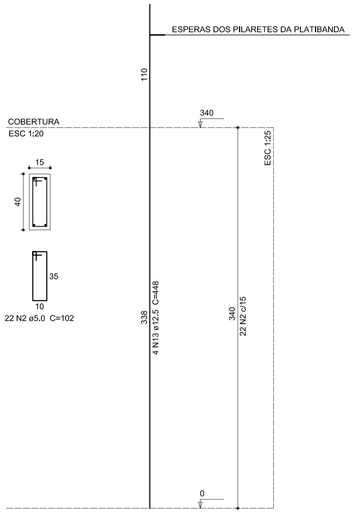
P1=P2=P3=P4=P7=P10=P11=P14=P17=P18=P19=P21



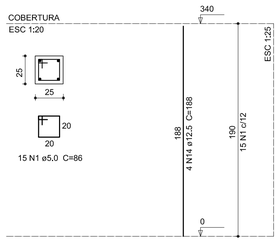
P5=P22



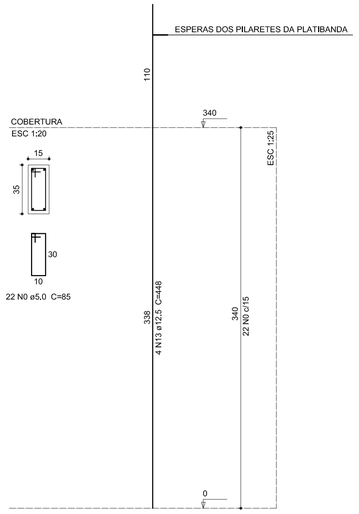
P6=P15



P8=P9=P12=P13



P20



Relação do aço

PILARES E SAPATAS

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	0	5,0	26	85	2210
	1	5,0	566	86	48676
	2	5,0	128	102	13056
CA50	3	6,3	10	104	1040
	4	8,0	224	124	27776
	5	8,0	36	104	3744
	6	8,0	140	126	17640
	7	8,0	6	95	570
	8	8,0	5	110	550
	9	10,0	4	170	680
	10	12,5	84	170	14280
	11	12,5	24	150	3600
	12	12,5	24	338	8112
	13	12,5	44	448	19712
	14	12,5	4	188	752

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6,3	10,4	2,8
	8,0	502,8	218,5
	10,0	6,8	4,6
	12,5	464,7	492,1
CA60	5,0	639,4	108,3
PESO TOTAL			
CA50	826,3		
CA60	108,3		

Vol. de concreto das sapatas e "pescoços" (Fck-25 Mpa) = 6,91 m³
Vol. de concreto dos pilares do térreo (Fck-25 Mpa) = 4,52 m³
Área de forma total = 192,72 m²

PREFEITURA MUNICIPAL DE ANANINDEUA
SECRETARIA DE SANEAMENTO E INFRA-ESTRUTURA

MERCADO DO ICUÍ
PROJETO ESTRUTURAL

DATA: 10/05/2016	CONTEÚDO:	03-07
ESC.: INDICADA	FERRAGENS DAS FUNDAÇÕES E DOS PILARES	
RESP. TÉCNICO:	ARQT° MÔNICA AMARAL PIEDADE – CAU N° A25606-4	

Rodovia Mário Covas s/n (Ipiranga do Viodutos)
Ananindeua-Marituba-Park - Fone (91) 3245-7400