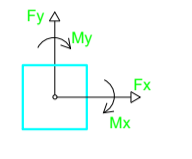
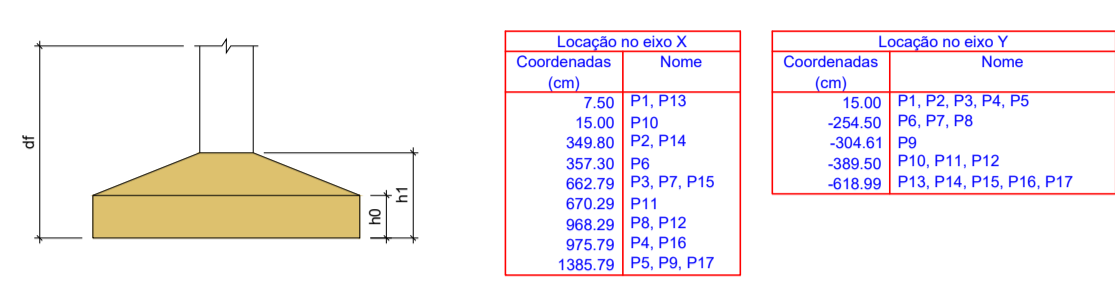


Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	M <sub>x</sub> Máximo (kgf.m)				F <sub>x</sub> Máximo (tf)				Nome	Lado (l)	Larg. (cm)	H <sub>0</sub> (cm)	H <sub>1</sub> (cm)	df (cm)
						Positivo	Negativo	Positivo	Negativo	Positivo	Negativo	Positivo	Negativo						
P1	15x30	7.50	15.00	3.8	3.3	100	-100	0	-100	0.0	-0.3	0.0	0.0	S1	55	70	30	40	120
P2	15x30	349.80	15.00	4.4	3.8	100	-100	0	-100	0.0	-0.2	0.0	0.0	S2	55	70	30	40	120
P3	15x30	662.79	15.00	4.4	3.8	200	-300	100	0	0.1	-0.2	0.0	0.0	S3	55	70	30	40	120
P4	15x30	975.79	15.00	5.5	4.8	100	-100	0	-100	0.0	-0.4	0.0	0.0	S4	55	70	30	40	120
P5	15x30	1385.79	15.00	3.8	3.3	0	-100	200	0	0.0	0.0	0.0	0.0	S5	55	70	30	40	120
P6	15x30	349.80	-254.50	4.4	3.8	0	-100	100	-100	0.0	-0.2	0.0	0.0	S6	55	70	30	40	120
P7	15x30	662.79	-254.50	4.4	3.8	0	100	-200	0	0.2	-0.2	0.0	-0.5	S7	55	70	30	40	120
P8	15x30	968.29	-254.50	3.7	3.3	200	-300	200	0	0.4	0.0	0.1	-0.4	S8	55	70	30	40	120
P9	15x30	1385.79	-254.50	3.8	3.3	0	100	-200	0	0.1	0.0	0.3	-0.2	S9	55	70	30	40	120
P10	15x30	7.50	-389.50	5.7	5.1	300	0	200	0	0.0	-0.3	0.0	-0.4	S10	55	70	30	40	120
P11	15x30	349.80	-389.50	3.5	2.9	0	-100	0	-100	0.0	-0.7	0.4	0.0	S11	55	70	30	40	120
P12	15x30	662.79	-389.50	4.0	3.4	100	-100	300	0	0.4	0.0	0.3	-0.2	S12	55	70	30	40	120
P13	15x30	7.50	-618.99	3.0	2.3	400	0	0	-100	0.0	-0.3	0.0	-0.6	S13	55	70	30	40	120
P14	15x30	349.80	-618.99	5.7	5.1	200	0	100	0	0.2	0.0	0.0	-0.9	S14	55	70	30	40	120
P15	15x30	662.79	-618.99	5.0	4.1	300	-100	100	-200	0.0	-0.1	0.0	-0.4	S15	55	70	30	40	120
P16	15x30	975.79	-618.99	5.9	5.0	400	-100	200	0	0.0	-0.1	0.0	-0.5	S16	55	70	30	40	120
P17	15x30	1385.79	-618.99	3.7	3.2	400	0	200	0	0.5	0.0	0.0	-0.5	S17	55	70	30	40	120

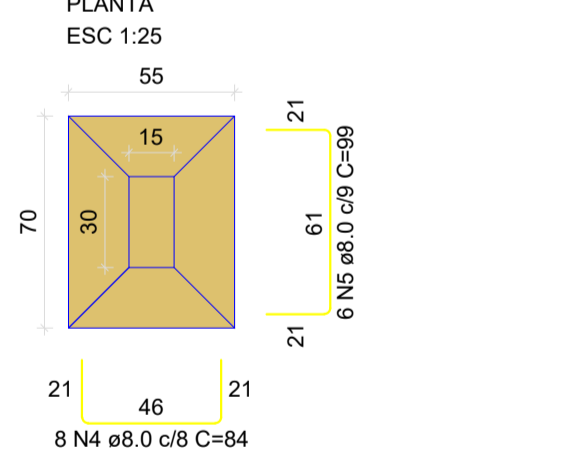


OBSERVAÇÕES:

CROQUI DE REFERÊNCIA

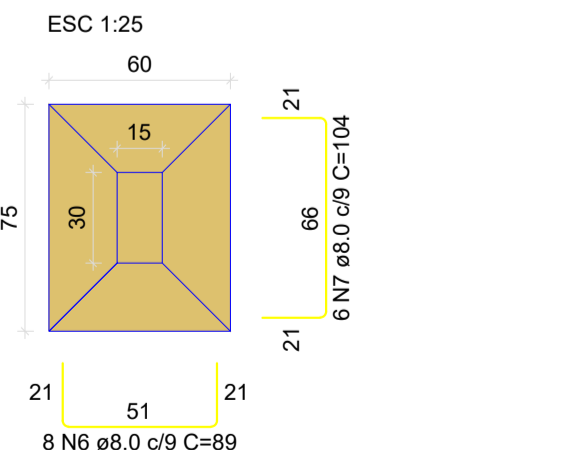
1 ESC ESTRUTURAL  
EST 1:50 PLANTA DE LOCAÇÃO

S1=S2=S3=S5=S6=S7=S8=S9=S10=S11=S12=S13=S15=S17

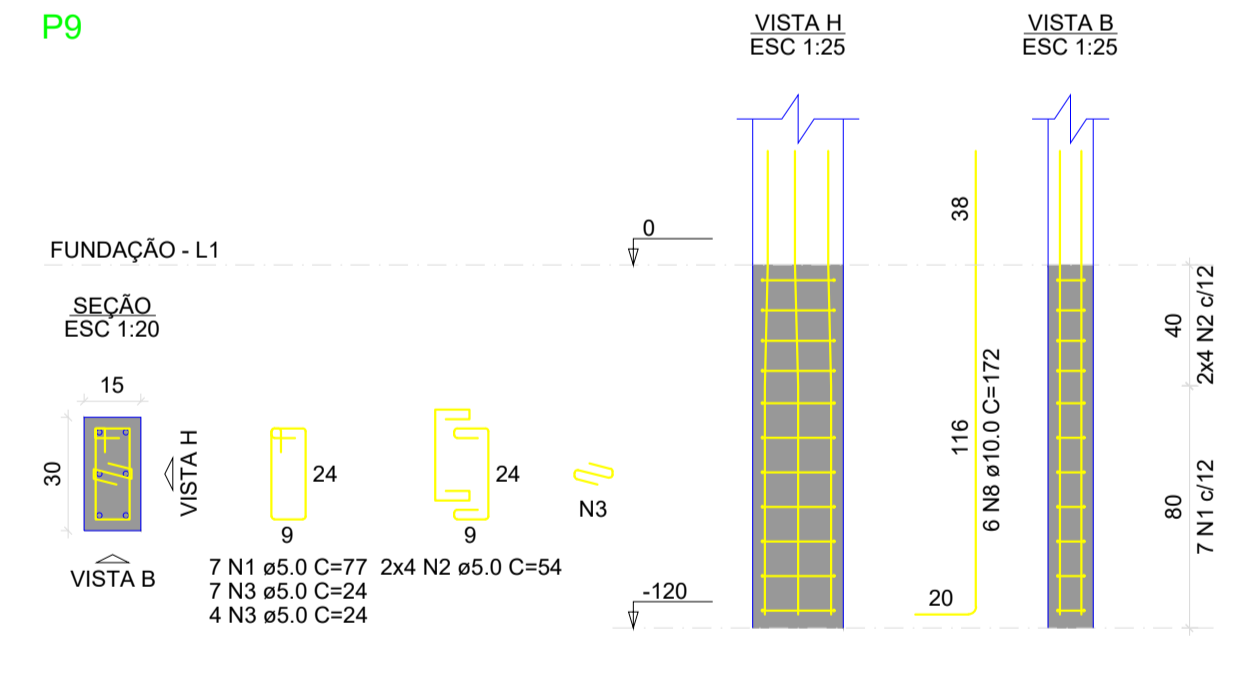
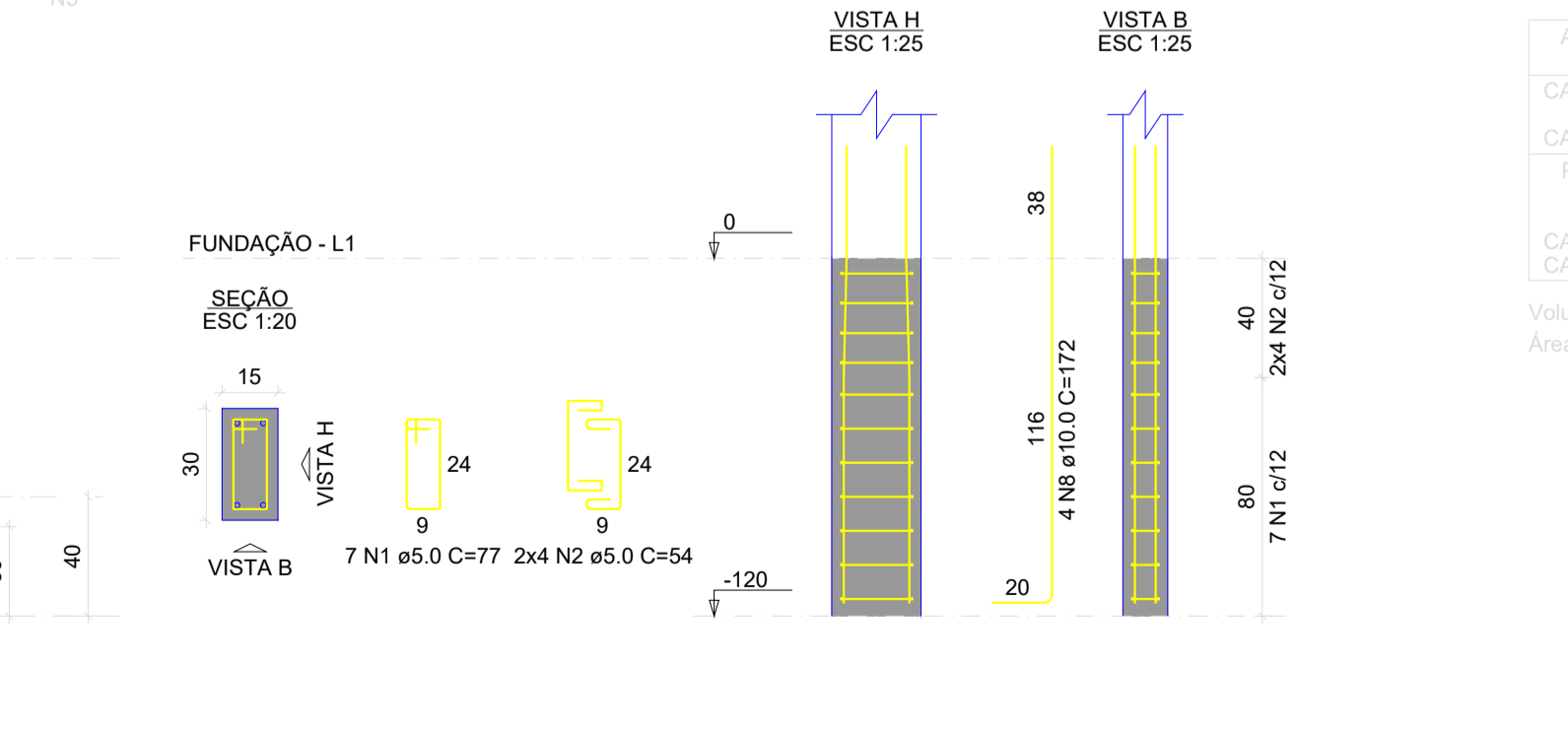
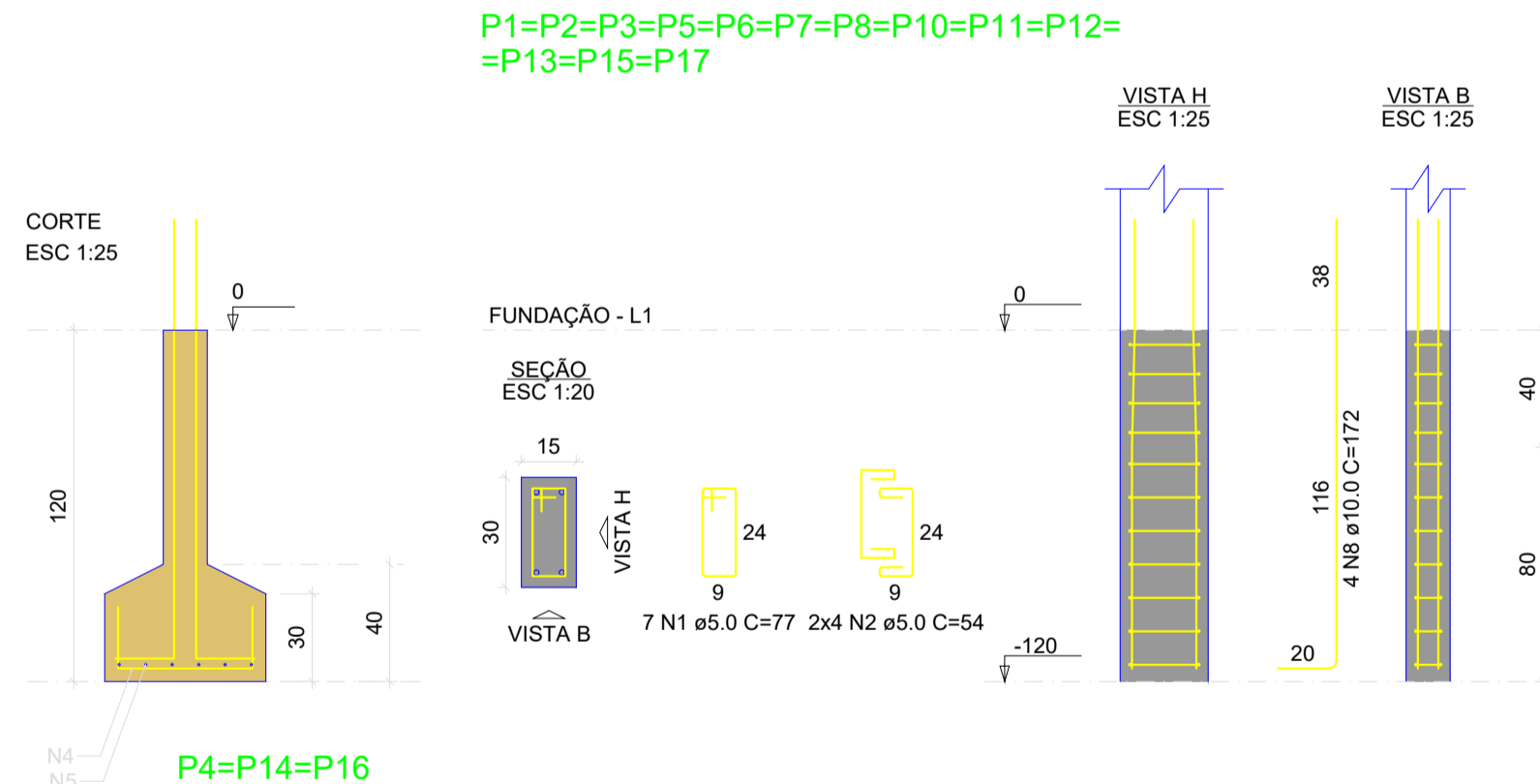


Solo com capacidade de suporte > 2.50 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kg/m<sup>3</sup>

S4=S14=S16



Solo com capacidade de suporte > 2.50 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kg/m<sup>3</sup>



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 5% (Barras)	UNIT	PESO + 5% (kg)
CA50	8.0	217.3	20	12 m	90
CA60	10.0	120.4	11	12 m	77.9
CA60	5.0	167.7	-	rolo (170 kg)	27.1
PESO TOTAL (kg)					
CA50					168
CA60					27.1

Volume de concreto (C-25) = 2.96 m<sup>3</sup>  
Área de forma = 25.17 m<sup>2</sup>

2 ESC ESTRUTURAL  
VAR DETALHAMENTO DAS SAPATAS

PREFEITURA MUNICIPAL DE JACAREACANGA  
SECRETARIA MUNICIPAL DE EDUCAÇÃO, CULTURA E ESPORTO

End.: Av. Brg. Haroldo Coimbra Veloso, 34 - Centro  
CEP: 69165-000  
Fone: (93) 3542-1266

PROJETO ESTRUTURAL  
REFORMA E AMPLIAÇÃO DA ESCOLA ESTADUAL DE ENSINO MÉDIO BRIGADEIRO HAROLDO COIMBRA VELOSO

Proprietário: PREFEITURA DE JACAREACANGA  
Local: AVENIDA RAIMUNDO J. SANTOS, S/Nº, BAIRRO BELA VISTA - JACAREACANGA - PA  
Autor do Projeto: MARILENE DE SOUZA RODRIGUES  
ENGENHEIRO CIVIL - CREA nº 041970951-7

Responsável Técnico: \_\_\_\_\_  
Assunto: ESTRUTURAL BLOCO A - ADMINISTRATIVO (AMPLIAÇÃO) Escola: INDICADA Data: JUL/22 Folha: EST-03