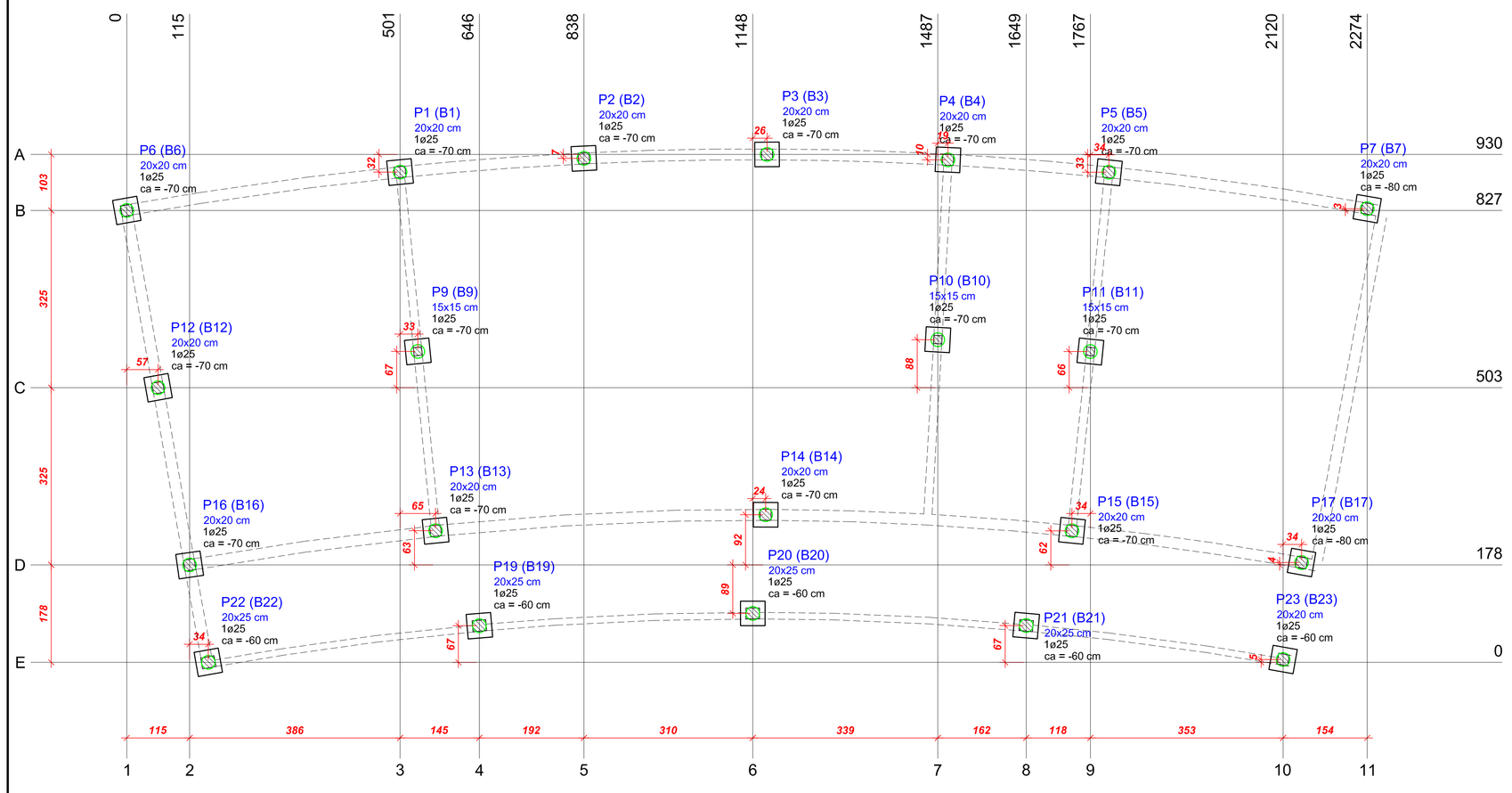
Planta de Locação

escala 1:50



Pilar					Fundação					Bloco				
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Nome	Lado B (cm)	Lado H (cm)	ha (cm)	hb (cm)	ne	de (cm)	ca (cm)	pf (cm)
P1	20x20	501	898	15.6	B1	45	45	40	40	1	25	-70	600
P2	20x20	838	923	10.5	B2	45	45	40	40	1	25	-70	500
P3	20x20	1174	930	12.0	B3	45	45	40	40	1	25	-70	500
P4	20x20	1506	920	10.6	B4	45	45	40	40	1	25	-70	500
P5	20x20	1801	898	15.6	B5	45	45	40	40	1	25	-70	600
P6	20x20	0	827	8.2	B6	45	45	40	40	1	25	-70	500
P7	20x20	2274	831	13.4	B7	45	45	50	40	1	25	-80	600
P9	15x15	534	569	3.3	B9	45	45	40	40	1	25	-70	300
P10	15x15	1487	591	3.8	B10	45	45	40	40	1	25	-70	300
P11	15x15	1767	569	3.3	B11	45	45	40	40	1	25	-70	300
P12	20x20	57	503	9.9	B12	45	45	40	40	1	25	-70	500
P13	20x20	566	241	20.9	B13	45	45	40	40	1	25	-70	800
P14	20x20	1171	270	21.1	B14	45	45	40	40	1	25	-70	800
P15	20x20	1733	241	19.3	B15	45	45	40	40	1	25	-70	800
P16	20x20	115	178	9.5	B16	45	45	40	40	1	25	-70	500
P17	20x20	2154	182	12.9	B17	45	45	50	40	1	25	-80	500
P19	20x25	646	67	5.6	B19	45	45	30	40	1	25	-60	400
P20	20x25	1148	89	5.2	B20	45	45	30	40	1	25	-60	400
P21	20x25	1649	67	5.6	B21	45	45	30	40	1	25	-60	400
P22	20x25	150	0	3.2	B22	45	45	30	40	1	25	-60	300
P23	20x20	2120	5	2.7	B23	45	45	30	40	1	25	-70	300

Estacas		
Simbologia	de (cm)	Quantidade
	25	21

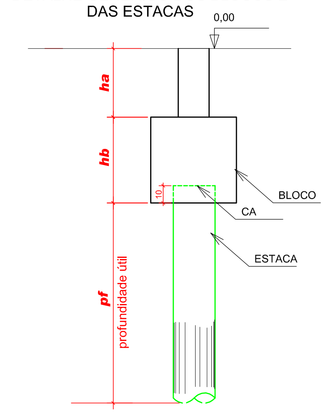
de = diâmetro da estaca

ca = cota de arrasamento das estacas em relação ao piso do térreo

pf = profundade útil da estaca (medida apartir do fundo do bloco) a confirmar na obra

Vigas Baldrame

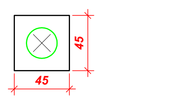
DETALHE GENÉRICO DOS BLOCOS E DAS ESTACAS



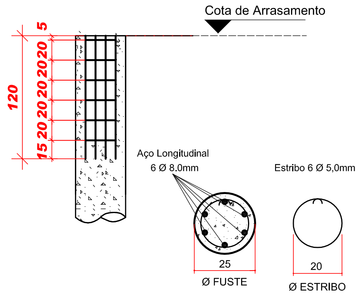
Legenda dos Blocos

escala 1:25

B1=B2=B3=B4=B5=B6=B7
B9=B10=B11=B12=B13
B14=B15=B16=B17=B19
B20=B21=B22=B23 (1ø25)



DETALHE GENÉRICO DE ARMADURA DAS ESTACAS



RELAÇÃO DO AÇO DAS ESTACAS

AÇO	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	5.0	126	70	8820
50	8.0	126	120	15120

RESUMO DO AÇO

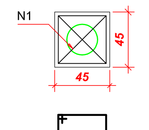
AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	8.0	151.2	59.7
CA60	5.0	88.2	13.5
PESO TOTAL			
CA50	59.7		
CA60	13.5		

Concreto p/ Estacas

fck = 150kgf/cm²
Tipo Bombeável
Agregado Brita 01
Slump 10 (±1)
Volume teórico : 5,10 m³

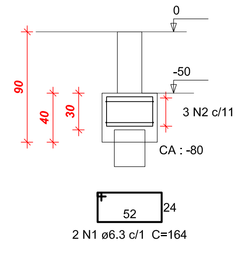
B7=B17 1ø25

Planta ESC 1:25



3 N2 ø6.3 c/11 C=168

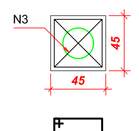
Corte ESC 1:25



2 N1 ø6.3 c/1 C=164

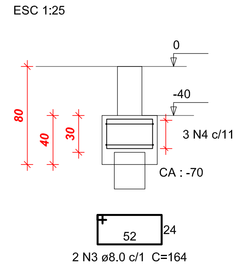
B1=B2=B3=B4=B5=B6=B9 =B10=B11=B12=B13 =B14=B15=B16 1ø25

Planta ESC 1:25



3 N4 ø8.0 c/11 C=168

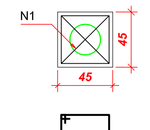
Corte ESC 1:25



2 N3 ø8.0 c/1 C=164

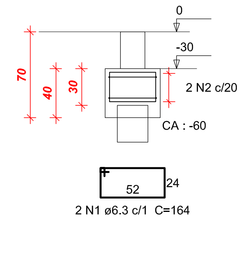
B19=B20=B21=B22=B23 1ø25

Planta ESC 1:25



2 N2 ø6.3 c/20 C=168

Corte ESC 1:25



2 N1 ø6.3 c/1 C=164

Relação do Aço dos Blocos

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	14	164	2296
	2	6.3	16	168	2688
	3	8.0	28	164	4592
	4	8.0	42	168	7056

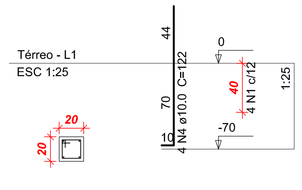
Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	49.9	12.2
	8.0	116.5	46
PESO TOTAL			
CA50	58.2		

Vol. de concreto total (C-20) = 1.6 m³
Área de forma total = 15.12 m²

P1=P2=P3=P4=P5=P6 =P12=P13=P14=P15=P16

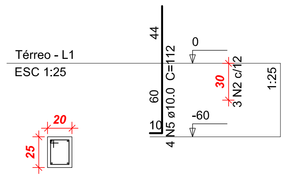
Térreo - L1 ESC 1:25



15
15
4 N1 ø5.0 C=72

P19=P20=P21=P22

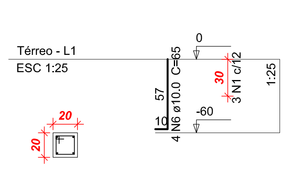
Térreo - L1 ESC 1:25



20
15
3 N2 ø5.0 C=82

P23

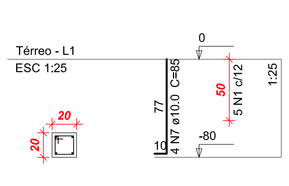
Térreo - L1 ESC 1:25



15
15
3 N1 ø5.0 C=72

P7=P17

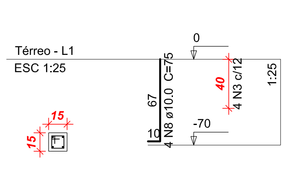
Térreo - L1 ESC 1:25



15
15
5 N1 ø5.0 C=72

P9=P10=P11

Térreo - L1 ESC 1:25



10
10
4 N3 ø5.0 C=52

Relação do Aço das Espera dos Pilares

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	57	72	4104
	2	5.0	12	82	984
	3	5.0	12	52	624
CA50	4	10.0	44	122	5368
	5	10.0	16	112	1792
	6	10.0	4	65	260
	7	10.0	8	85	680
	8	10.0	12	75	900

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10.0	90	55.5
CA60	5.0	57.2	8.8
PESO TOTAL			
CA50	55.5		
CA60	8.8		

Vol. de concreto total (C-20) = 0.56 m³
Área de forma total = 11.34 m²

AS BUILT PROJETOS
Rua Jovino do Rosário, 1564 – Boa Vista
CEP 82560-435 – Curitiba – Paraná

OBRA: AMPLIAÇÃO – EDITORA
PROPRIETÁRIO: UNIVERSIDADE DOS VALES DO JEQUITINHONHA E MUCURI – UFVJM
ENDEREÇO: RODOVIA MGT 367 – Km 583, Nº5000, ALTO DA JACUBA – DIAMANTINA/MG

PROJETO ESTRUTURAL

REFERÊNCIA: PLANTA DE LOCAÇÃO E CARGAS
FERRAGEM DOS BLOCOS E ESTACAS
ESPERA DOS PILARES

PRANCHA: EST 01 /17

ARQUIVO: CARLOS
DESENHO: CARLOS
DATA: 04/07/2012
ESCALA: INDICADA

AUTOR DO PROJETO: ENG. CIVIL CARLOS HENRIQUE DE S. GONÇALVES
CREA: 7.982-D/PR