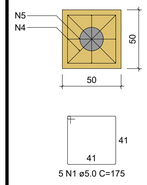
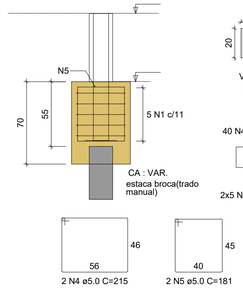
B18
1ø20

PLANTA
ESC 1:25



5 N1 ø5.0 C=175

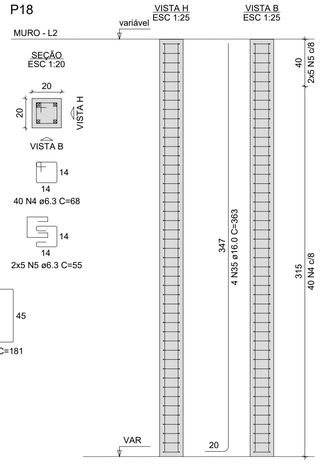
CORTE
ESC 1:25



2 N4 ø5.0 C=215

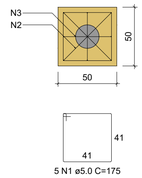
2 N5 ø5.0 C=181

P18



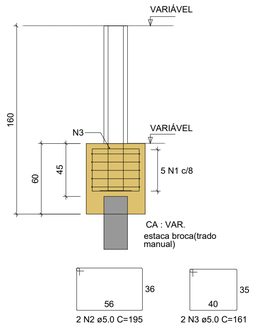
B19
1ø20

PLANTA
ESC 1:25



5 N1 ø5.0 C=175

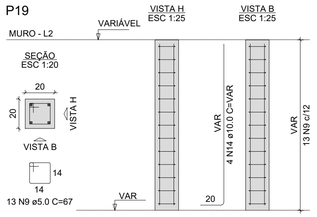
CORTE
ESC 1:25



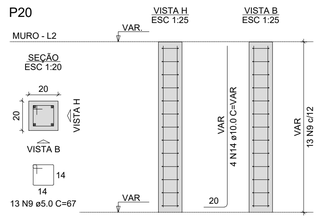
2 N2 ø5.0 C=195

2 N3 ø5.0 C=161

P19

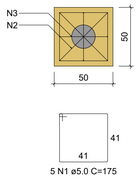


P20



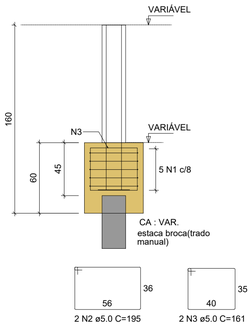
B20
1ø20

PLANTA
ESC 1:25



5 N1 ø5.0 C=175

CORTE
ESC 1:25



2 N2 ø5.0 C=195

2 N3 ø5.0 C=161

RELAÇÃO DO AÇO

B16	B17	B18
B19	B20	2xB22
B23	B24	B25
B14-15	P14	P15
P16	P17	P18
P19	P20	2xP21
P23	P24	P25

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	30	175	5250
	2	5.0	10	195	1950
	3	5.0	10	161	1610
	4	5.0	2	215	430
	5	5.0	2	181	362
	6	5.0	25	195	4875
	7	5.0	10	209	2090
	8	5.0	10	171	1710
	9	5.0	144	67	9648
	10	5.0	22	54	1188
CA50	11	6.3	40	68	2720
	12	6.3	10	55	550
	13	10.0	16	VAR	VAR
	14	10.0	8	VAR	VAR
	15	10.0	12	285	3420
	16	12.5	8	VAR	VAR
	17	12.5	4	284	1136
	18	16.0	4	363	1452

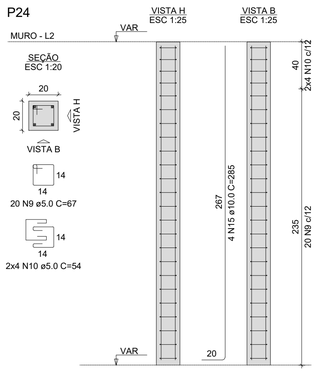
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	32.7	8.8
	10.0	68.2	46.3
	12.5	22.1	23.4
	16.0	14.5	25.2
CA60	5.0	291.1	49.4

PESO TOTAL (kg)	
CA50	103.7
CA60	49.4

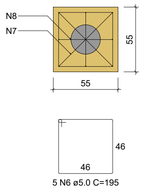
Volume de concreto fck 3,0kN/cm² (C-30) = 2.46 m³
Área de forma = 27.76 m²

P24



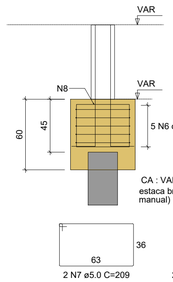
B25
1ø25

PLANTA
ESC 1:25



5 N6 ø5.0 C=195

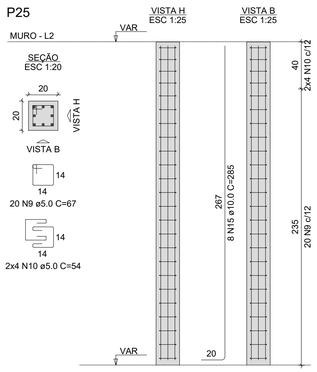
CORTE
ESC 1:25



2 N7 ø5.0 C=209

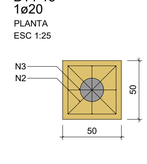
2 N8 ø5.0 C=171

P25



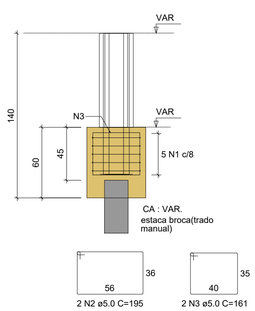
B14-15
1ø20

PLANTA
ESC 1:25



5 N1 ø5.0 C=175

CORTE
ESC 1:25

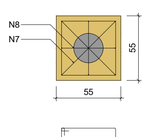


2 N2 ø5.0 C=195

2 N3 ø5.0 C=161

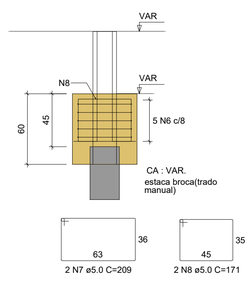
B23
1ø25

PLANTA
ESC 1:25



5 N6 ø5.0 C=195

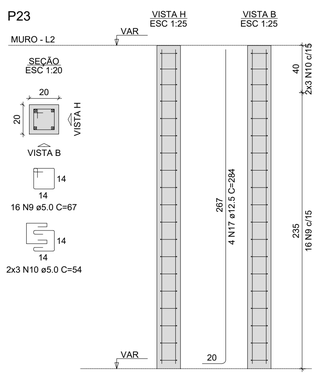
CORTE
ESC 1:25



2 N7 ø5.0 C=209

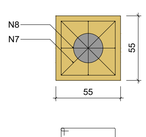
2 N8 ø5.0 C=171

P23



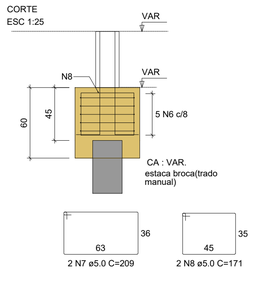
B24
1ø25

PLANTA
ESC 1:25



5 N6 ø5.0 C=195

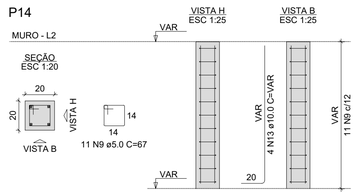
CORTE
ESC 1:25



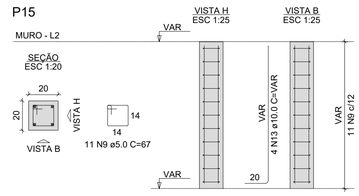
2 N7 ø5.0 C=209

2 N8 ø5.0 C=171

P14



P15



REVISÃO	DATA	DESCRIÇÃO	RESP.
06	21/11/22	PROJETO EXECUTIVO	ATACIZIO
05	03/11/22	EMISSÃO INICIAL	ATACIZIO

EMPRESA
MARKA ARQUITETURA E ENGENHARIA LTDA
RUA PROFESSOR ABEYLARD, 279, SALA 9
CENTRO, SETE LAGOAS/MG
apoio@markaprojetos.com.br
(31) 3177-4235
www.markaprojetos.com.br

ESPECIALIDADE: ESTRUTURAL

FASE DO PROJETO: EXECUTIVO

EMPREENDIMENTO – OBRA
ESCOLA MUNICIPAL BELVEDERDE
RUA JOSÉ COELHO, RUA CANADÁ E RUA SÉRGIO JACOWLEVSKI
B. SIDERÚRGICO – CONSELHEIRO LAFAIETE/MG

RESPONSÁVEL PROJETO: JOSÉ ATACÍZIO DA FÉ – ENG.CIVIL CREA/MG 87.669/D
COORDENADOR PROJETO: KARINE NARDY
PROJETISTA: JOSÉ ATACÍZIO DA FÉ

ASSUNTO
PROJETO DE ESTRUTURAS DE CONCRETO
ARMAÇÃO DA FUNDAÇÃO– MURO DE DIVISA 02

ESCALA: INDICADA
DATA: 21/11/2022
ARQUIVO: 064-EST-MURO DE DIVISA-BELVEDERE-R06
Nº FOLHA: 15

FORMATO A1 - PADRÃO ABNT - (841 x 594mm)