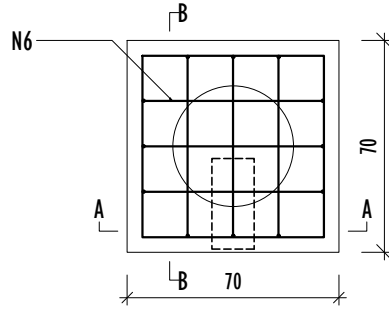


BP-9

1xEH-40-800

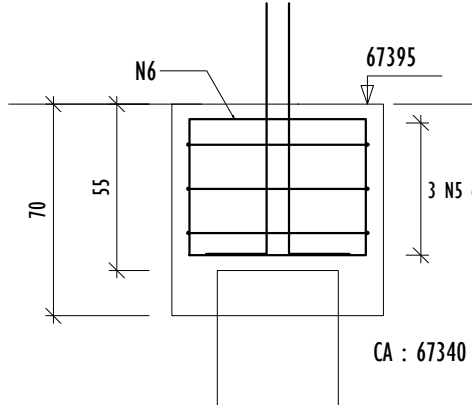
PLANTA

ESC. 1:25



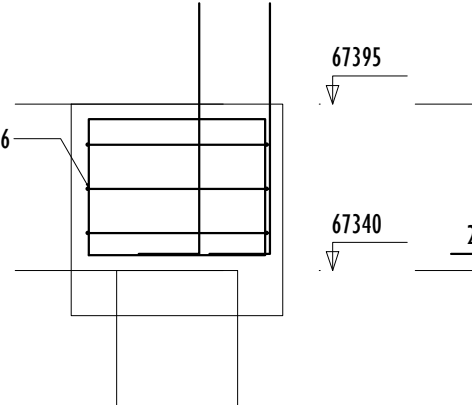
CORTE A-A

ESC. 1:25



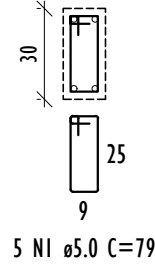
CORTE B-B

ESC. 1:25



DETALHE DO PILAR

ESC. 1:25

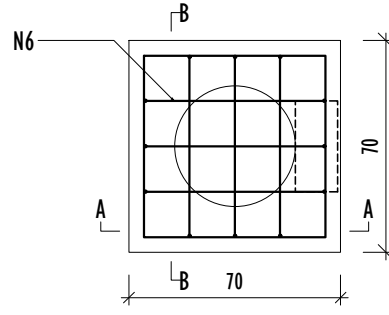


BP-10

1xEH-40-800

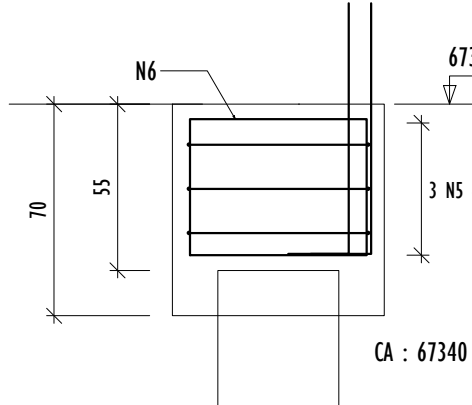
PLANTA

ESC. 1:25



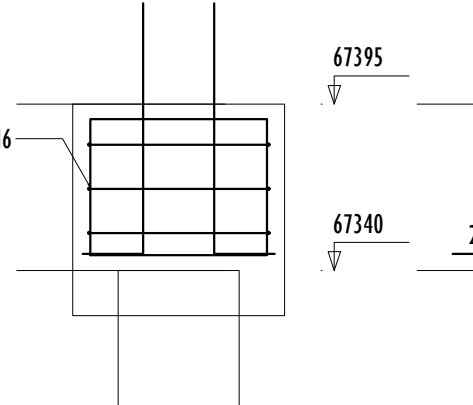
CORTE A-A

ESC. 1:25



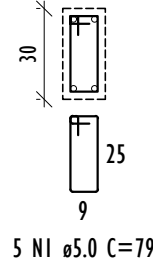
CORTE B-B

ESC. 1:25



DETALHE DO PILAR

ESC. 1:25

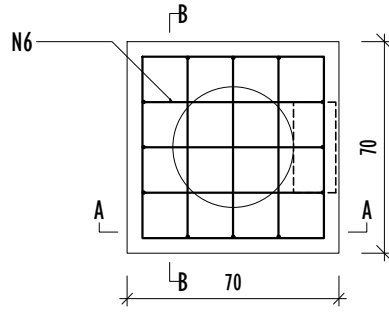


BP-11

1xEH-40-800

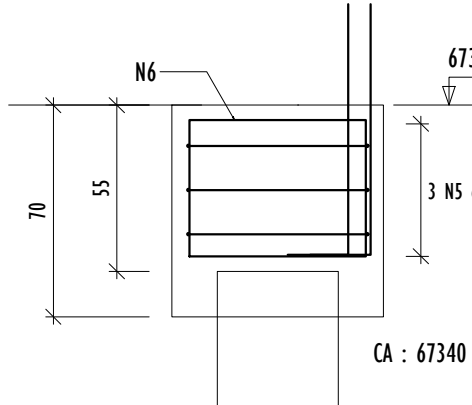
PLANTA

ESC. 1:25



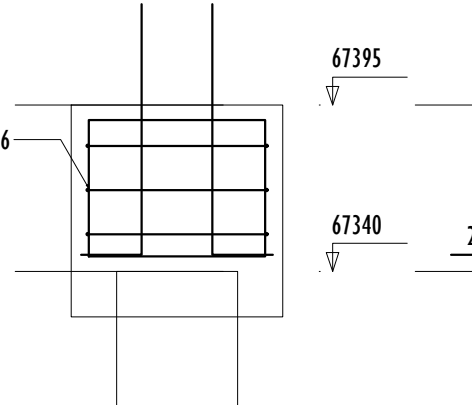
CORTE A-A

ESC. 1:25



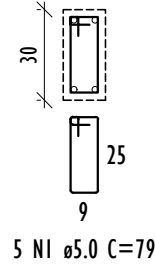
CORTE B-B

ESC. 1:25



DETALHE DO PILAR

ESC. 1:25

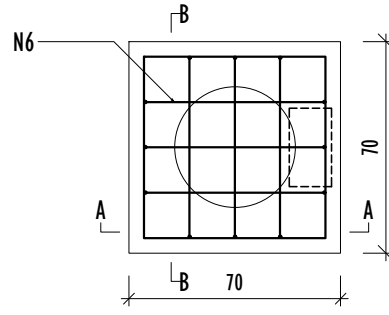


BP-12

1xEH-40-800

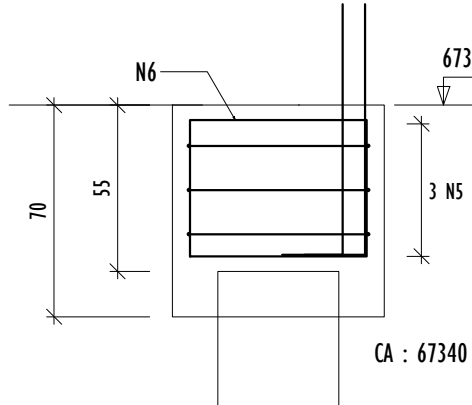
PLANTA

ESC. 1:25



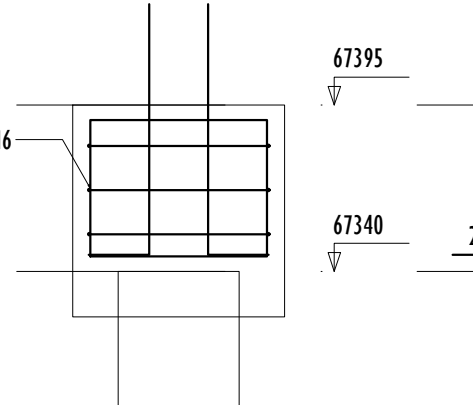
CORTE A-A

ESC. 1:25



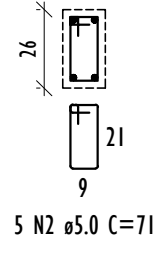
CORTE B-B

ESC. 1:25



DETALHE DO PILAR

ESC. 1:25

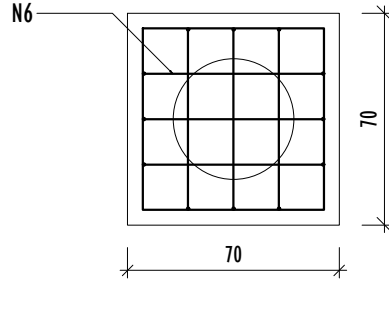


BP-13=BP-14=BP-32=BP-43=BP-46

1xEH-40-600

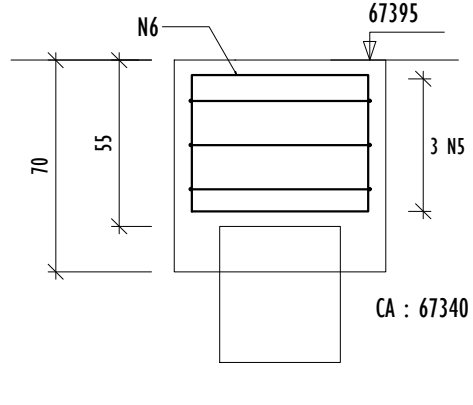
PLANTA

ESC. 1:25



CORTE

ESC. 1:25

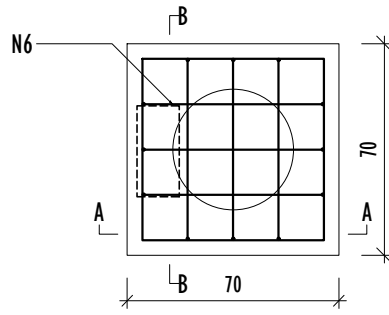


BP-15

1xEH-40-800

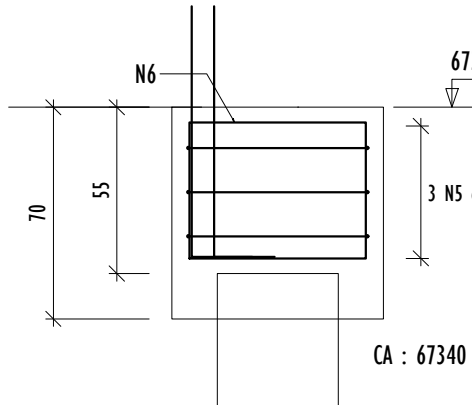
PLANTA

ESC. 1:25



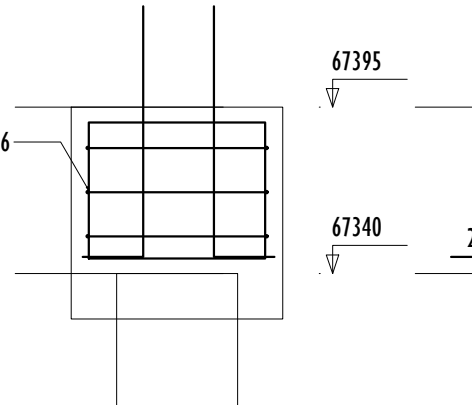
CORTE A-A

ESC. 1:25



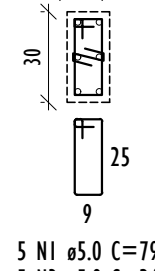
CORTE B-B

ESC. 1:25



DETALHE DO PILAR

ESC. 1:25



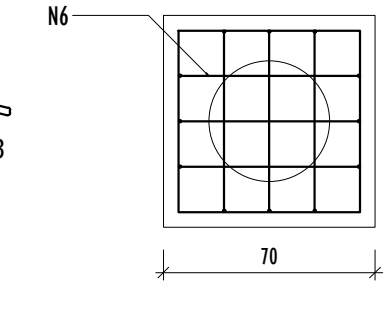
BP-16=BP-17=BP-18=BP-19=BP-20=BP-22=BP-25

=BP-28=BP-30=BP-34=BP-37=BP-38

1xEH-40-1000

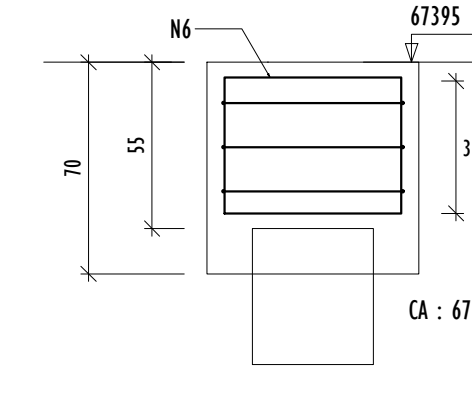
PLANTA

ESC. 1:25



CORTE

ESC. 1:25

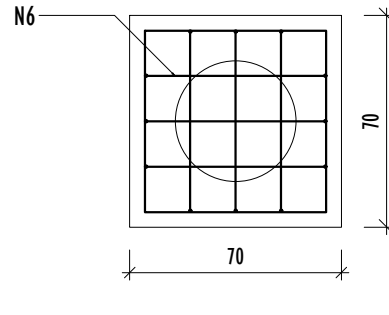


BP-21=BP-23=BP-31=BP-40=BP-42=BP-45

1xEH-40-800

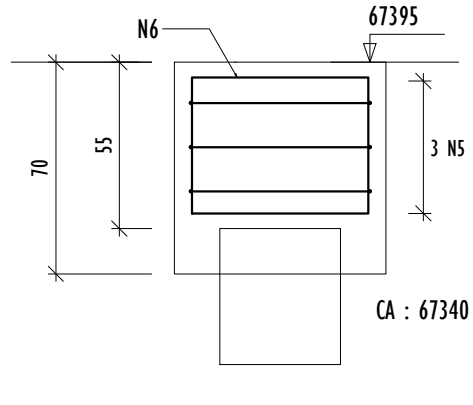
PLANTA

ESC. 1:25



CORTE

ESC. 1:25

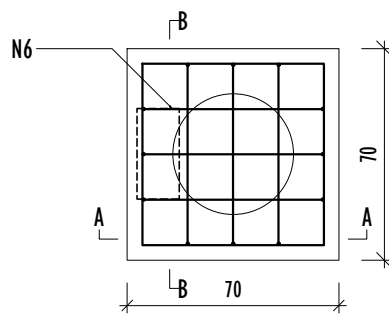


BP-24

1xEH-40-600

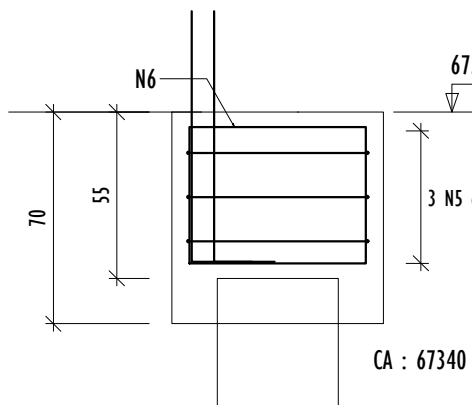
PLANTA

ESC. 1:25



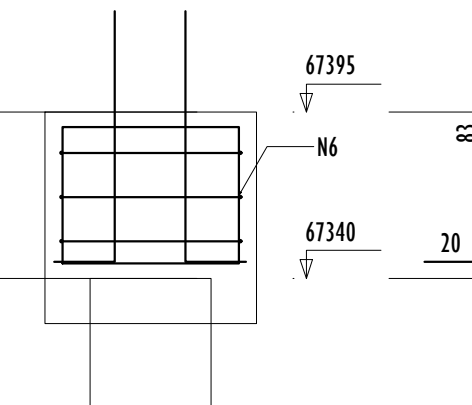
CORTE A-A

ESC. 1:25



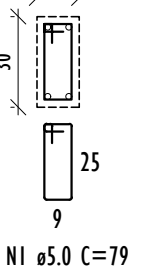
CORTE B-B

ESC. 1:25



DETALHE DO PILAR

ESC. 1:25

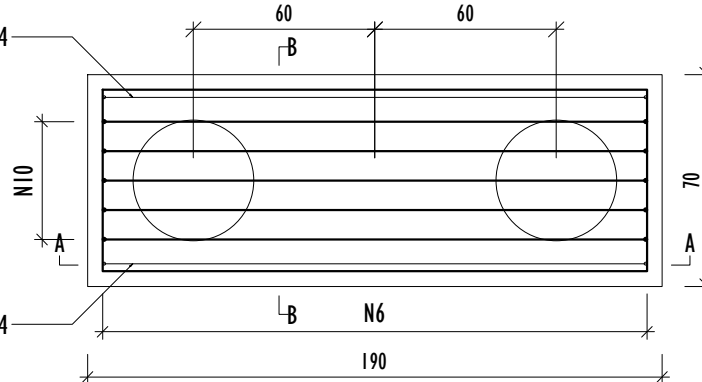


BP-26=BP-36

2xEH-40-1000

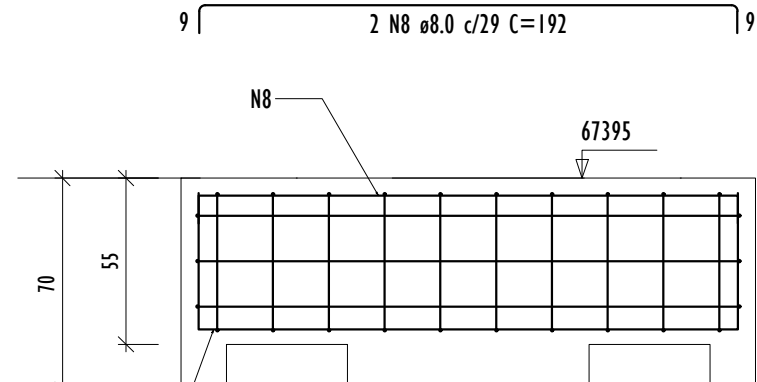
PLANTA

ESC. 1:25



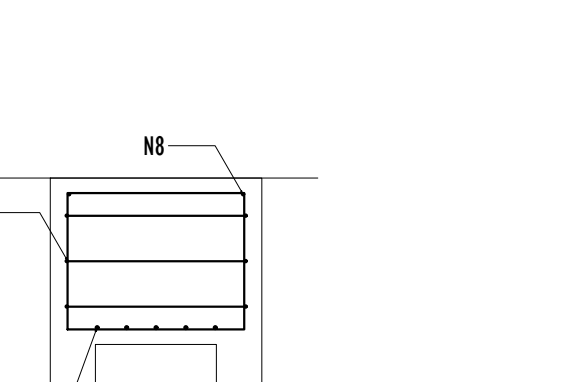
CORTE A-A

ESC. 1:25



CORTE B-B

ESC. 1:25



RELAÇÃO DO AÇO

BP-9	BP-10	BP-11
BP-12	BP-15	BP-24
2xBP-36	12xBP-38	6xBP-45
5xBP-46		

AÇO	N	DIAM (mm)	QUANT	CUNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	25	79	1975
	2	5.0	5	71	355
	3	5.0	5	24	120
	4	5.0	4	239	956
CA50	5	8.0	87	252	21924
	6	8.0	194	218	42292
	7	8.0	6	492	2952
	8	8.0	4	192	768
	9	10.0	26	101	2626
	10	10.0	10	263	2630

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	8.0	679.4	57	268.1
CA60	10.0	52.6	5	32.4
	5.0	34.1	3	5.2
PESO TOTAL (kg)				
CA50	300.5			
CA60	5.2			

Volume de concreto (C=30) = 11.19 m³

Área de forma = 64.12 m²

NOTAS GERAIS:

- MEDIDAS EM CENTÍMETROS (cm).
- TODAS AS MEDIDAS DEVERÃO SER VERIFICADAS NO LOCAL ANTES DO INÍCIO DA EXECUÇÃO.
- A FUNDAÇÃO FOI DETERMINADA ATRAVÉS DO RELATÓRIO DE SONDAGEM NÚMERO 009/2026 REALIZADO PELA EMPRESA PÓRTICO ENGENHARIA & CONSULTORIA EM FEVEREIRO DE 2026;
- CONCRETO:
 - Fck = 30 MPa;
 - Eci = 31 GPa;
 - FATOR A/C = 0.55;
- AÇOS:
 - CA-50(Ecs=210000 MPa E Fyk=500MPa);
 - CA-60(Ecs=210000 MPa E Fyk=600MPa);
- CLASSE DE AGRESSIVIDADE AMBIENTAL II;
- COBRIMENTO DAS ARMADURAS:
 - ESTACAS = 5.0 cm; BLOCOS = 5.0 cm; VIGAS = 2.5 cm; PILARES = 2.5 cm; LAJES = 2.0 cm;
- IMPERMEABILIZAR AS ESTRUTURAS EM CONTATO COM O SOLO;
- DEVERÁ SER EXECUTADA ALVENARIA DE EMBASAMENTO EM BLOCOS DE CONCRETO, COM ALTURA DE 40 CM, SOB AS PAREDES DA EDIFICAÇÃO. A EXECUÇÃO DEVERÁ GARANTIR O ADEQUADO APOIO DAS ALVENARIAS SUPERIORES, OBSERVANDO O ALINHAMENTO E NIVELAMENTO DOS ELEMENTOS CONSTRUTIVOS;
- O TEMPO DE ESCORAMENTO DAS ESTRUTURAS DE CONCRETO DEVE SER NO MÍNIMO DE 28 DIAS. OS DISPOSITIVOS UTILIZADOS DEVEM FACILITAR A REMOÇÃO DAS FÓRMAS DE MANEIRA A NÃO SUBMETER A ESTRUTURA À IMPACTOS, SOBRECARGAS E OUTROS DANOS. NENHUMA CARGA DEVE SER IMPOSTA E NENHUM ESCORAMENTO DEVE SER REMOVIDO ANTES DO TEMPO MÍNIMO DE 28 DIAS;
- OS NÍVEIS LANÇADOS NO PROJETO ESTRUTURAL FORAM DETERMINADOS A PARTIR DOS NÍVEIS PRESENTES NO PROJETO ARQUITETÔNICO.

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
01	REVISÃO DE PROJETO	06/2026	RF	LS	SL
00	EMIÇÃO INICIAL	05/2026	RF	LS	SL
CONTRATADA:		Nº: Sínval Ladeira REG. CREA: 28.498/D ASS:			
CONTRATANTE:		PREFEITURA MUNICIPAL DE JUIZ DE FORA			
ENDEREÇO:		JUIZ DE FORA/MG			
PROGRAMA:		UBS VALADARES			
TÍTULO E CONTEÚDO:		PROJETO EXECUTIVO ESTRUTURAL DETALHAMENTO DE BLOCOS - PARTE 02/03			
DATA:	MAIO/2026	ESCALA:	INDICADA	FOLHA:	05/23
ARQUIVO:	ESTC-PE-JF691-MLDR-052026-R01				