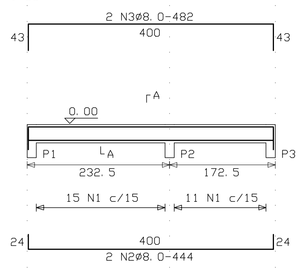
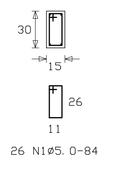
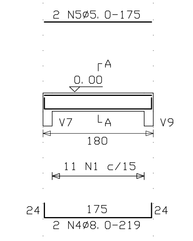
V1=V2=V5
1:50



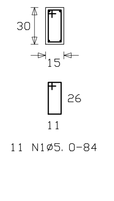
SEÇÃO A-A
ESC 1:25



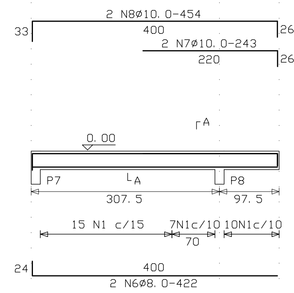
V3
1:50



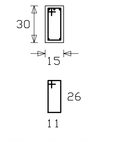
SEÇÃO A-A
ESC 1:25



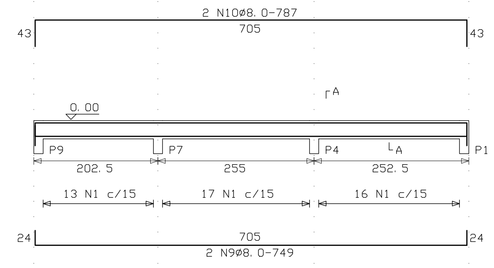
V4
1:50



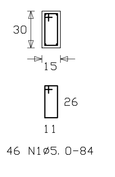
SEÇÃO A-A
ESC 1:25



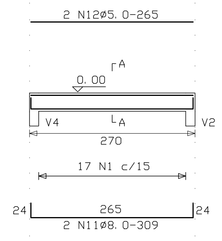
V6=V10
1:50



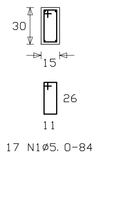
SEÇÃO A-A
ESC 1:25



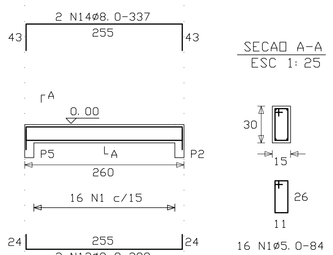
V7
1:50



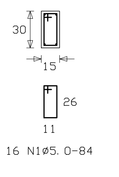
SEÇÃO A-A
ESC 1:25



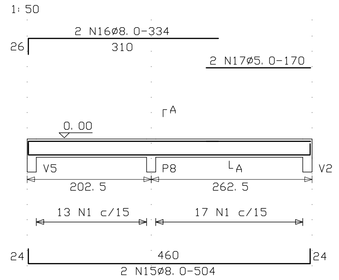
V8
1:50



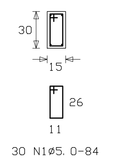
SEÇÃO A-A
ESC 1:25



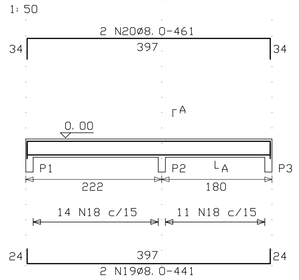
V9
1:50



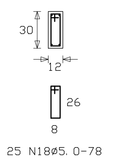
SEÇÃO A-A
ESC 1:25



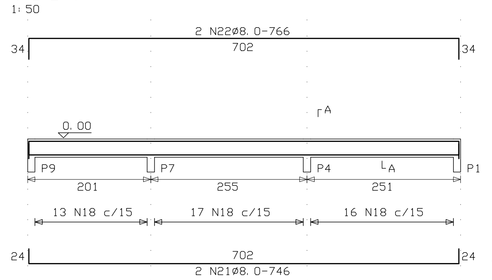
V101=V102=V103
1:50



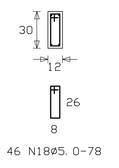
SEÇÃO A-A
ESC 1:25



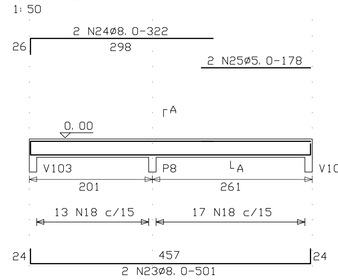
V104
1:50



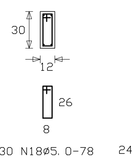
SEÇÃO A-A
ESC 1:25



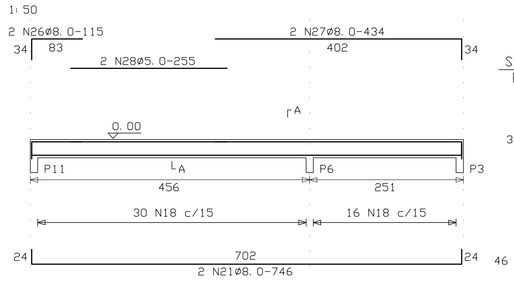
V105
1:50



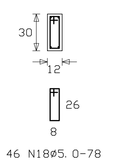
SEÇÃO A-A
ESC 1:25



V106
1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

3x V1
2x V6
V9
V105
3x V101
V106
V3
V7
V8
V4
V104

AÇO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50B	2	8.0	6	444	2664
	3	8.0	6	482	2892
	4	8.0	2	219	438
	6	8.0	2	422	844
	9	8.0	4	749	2996
	10	8.0	4	787	3148
	11	8.0	2	309	618
	13	8.0	2	299	598
	14	8.0	2	337	674
	15	8.0	2	504	1008
	16	8.0	2	334	668
	19	8.0	6	441	2646
	20	8.0	6	461	2766
	21	8.0	4	746	2984
	22	8.0	2	766	1532
	23	8.0	2	501	1002
	24	8.0	2	322	644
	26	8.0	2	115	230
	27	8.0	2	434	868
	7	10.0	2	243	486
	8	10.0	2	454	908
60	1	5.0	276	84	23184
	5	5.0	2	175	350
	12	5.0	2	265	530
	17	5.0	2	170	340
	18	5.0	197	78	15366
	25	5.0	2	178	356
	28	5.0	2	255	510

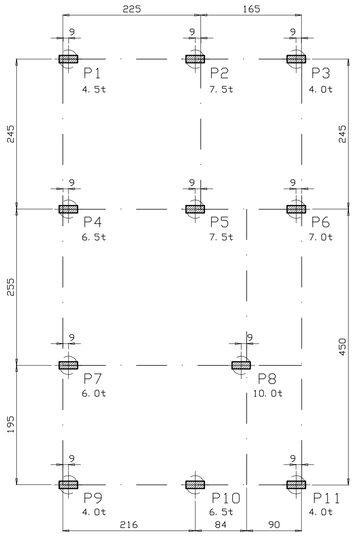
RESUMO DO AÇO - VIGAS

AÇO	DIAM.	C. TOTAL (m)	PESO+ 5% (kgf)
CA50B	8.0	292.6	121
CA50B	10.0	13.9	9
CA60	5.0	406.3	67

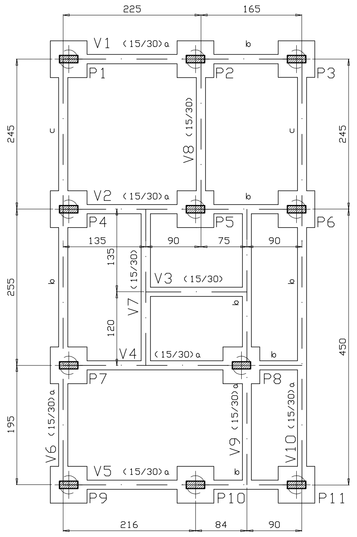
PESO TOTAL

CA50B	130 kgf
CA60	67 kgf

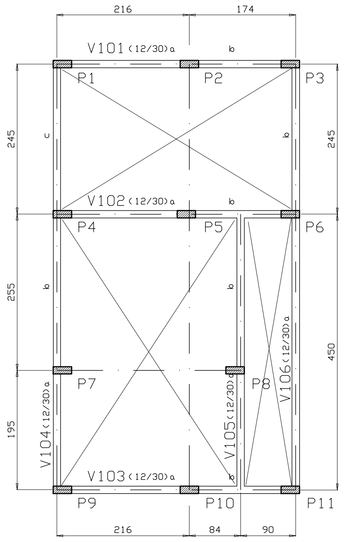
Vol. concreto total = 3.01 m3
Area de forma total = 53.80 m2
fck = 200.00 kgf/cm2



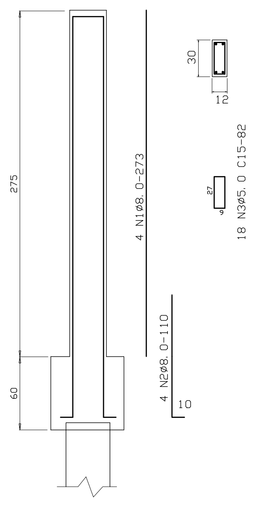
LOCACAO E CARGAS
ESC. 1:50



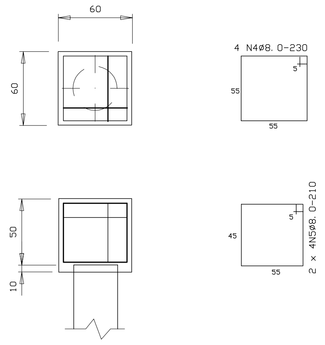
BALDRAMES
ESC. 1:50



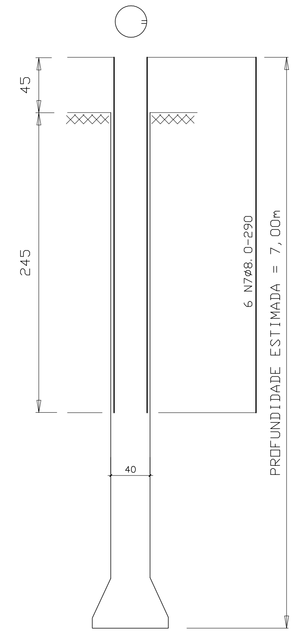
COBERTURA
ESC. 1:50



PILARES (11x)
ESC. 1:25



BLOCOS (11x)
ESC. 1:25



ESTACAS (11x)
ESC. 1:25

RELAÇÃO DO AÇO

AÇO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50B	1	8.0	44	273	12012
	2	8.0	44	110	4840
	4	8.0	44	230	10120
	5	8.0	88	210	18480
	7	8.0	66	290	19140
60	3	5.0	198	82	16236
	6	6.0	165	135	22275

RESUMO DO AÇO - PILAR, BLOCO E ESTACA

AÇO	DIAM.	C. TOTAL (m)	PESO+ 5% (kgf)
CA50B	8.0	645.9	271
CA60	5.0	162.4	28
CA60	6.0	222.8	59

PESO TOTAL

CA50B	271 kgf
CA60	87 kgf

Vol. concreto total = 14.35 m3
Area de forma total = 41.35 m2
fck = 200.00 kgf/cm2

No.	Data	Discriminação	Verificação	Aprovação
0	06/09	EMISSÃO		

Revisões

No. Documento	Título

Documentos de Referência

Observações

1 - AS ESTACAS SERAO EXECUTADAS A TRADO COM DIAMETRO DO FUSTE Ø=40cm.
2 - A PREVISAO DE PROFUNDIDADE DAS ESTACAS E DE 5.50m.

ARKIS INFRA ESTRUTURA URBANA LTDA

		DATA	RUBRICA
ESC.	Alex Sandro Jailson Vieira	09/09	
PROJ.	Moises de Moraes - CREA nº 29555/D-MG		
DES.	Carlos Joadir Mendes - CREA nº 2127/D-DF		
CONF.	Karla Isabelita S. Mendes - CREA nº 12.600/D-DF		

SIA Q4 SE Lote 15 sala 103/104 - SETOR DE INDUSTRIAS - BRASILIA-DF FONE-FAX 3963705 - E-mail arkis@terra.com.br

CODEVASF

MINISTÉRIO DA INTEGRAÇÃO NACIONAL
COMPANHIA DE DESENVOLVIMENTO DO VALE DO SÃO FRANCISCO E DO PARNAÍBA
2ª SUPERINTENDÊNCIA REGIONAL

DES/COPIA:	DATA: 09/09	LOCAL/CIDADE: MALHADA-BA	ORIGEM:
PROJ/CONFERE:		CONTEÚDO: SISTEMA DE ABASTECIMENTO DE ÁGUA PROJETO BÁSICO	NÚMERO DE ORIGEM:
LEVANTAMENTO:			HISTÓRICO(alteração):
GESTOR:		SUBSISTEMA 3 - PROJETO ESTRUTURAL ESTRUTURA DE CONCRETO VIGAS, LOCAÇÃO DE CARGAS, BALDRAMES, COBERTURA, PILARES, BLOCOS e ESTACAS	ESCALA: INDICADA
GERÊNCIA:			FOLHA: 01/09
COORDENADOR: Engº LUIZ GERALDO SOMM BASTOS			NÚMERO DO CONTRATO: 0.06.08.0227-00