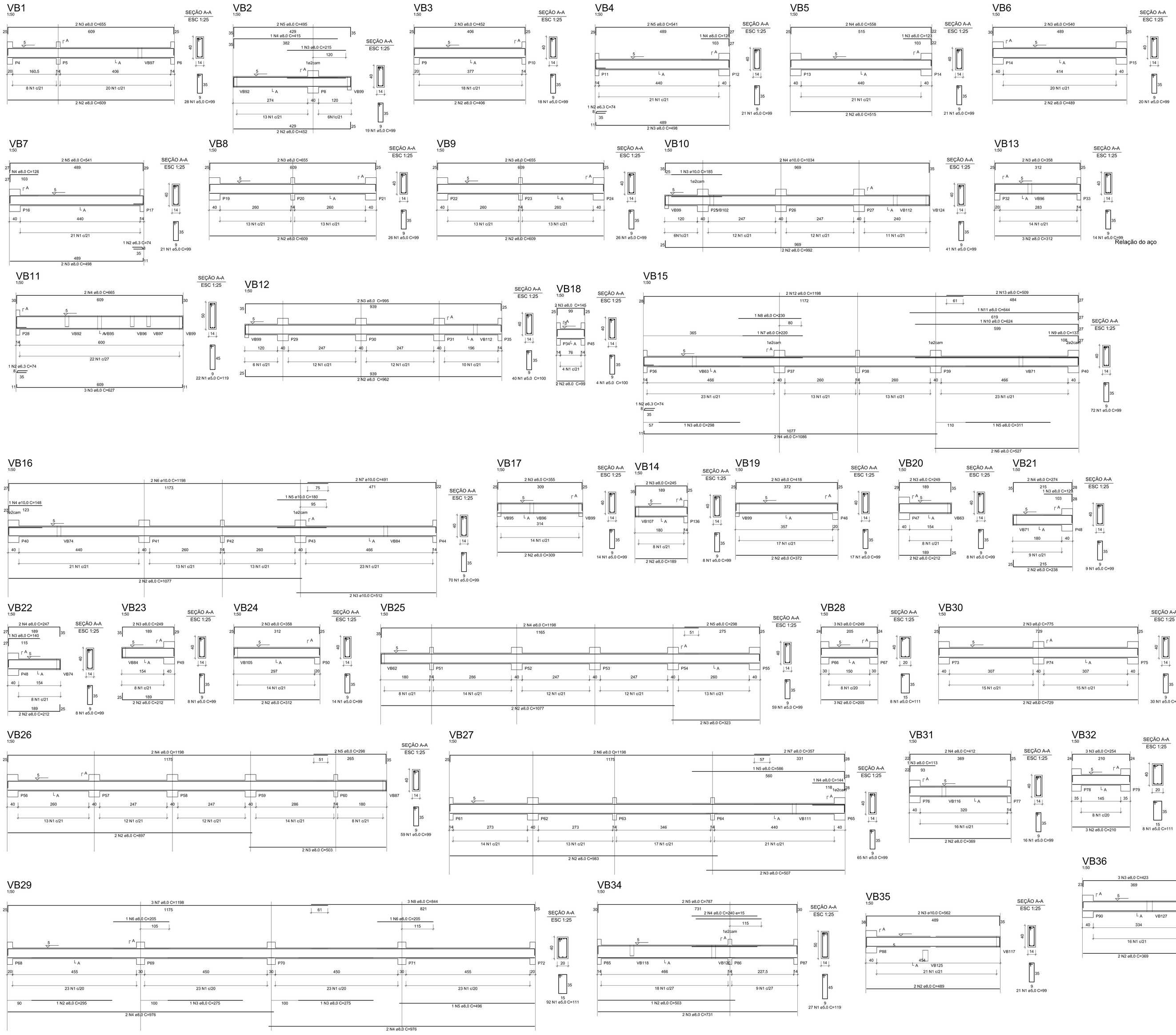

Relação do aço

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
VB1	60	1	5,0	28	99	2772
	50	2	8,0	2	609	1218
	50	3	8,0	2	655	1310
VB2	50	1	8,0	15	99	1584
	50	2	8,0	4	482	964
	50	3	8,0	1	215	215
	50	4	8,0	1	415	415
	50	5	8,0	2	495	990
VB3	60	1	5,0	16	99	1782
	50	2	8,0	2	406	812
	50	3	8,0	2	452	904
VB4	60	1	5,0	21	99	2079
	50	2	6,3	1	74	74
	50	3	8,0	2	498	996
	50	4	8,0	1	128	128
	50	5	8,0	2	541	1082
VB5	60	1	5,0	21	99	2079
	50	2	8,0	2	515	1030
	50	3	8,0	1	123	123
	50	4	8,0	2	558	1116
VB6	60	1	5,0	20	99	1980
	50	2	8,0	2	489	978
	50	3	8,0	2	540	1080
VB7	60	1	5,0	21	99	2079
	50	2	6,3	1	74	74
	50	3	8,0	2	498	996
	50	4	8,0	1	128	128
	50	5	8,0	2	541	1082
VB8	60	1	5,0	26	99	2574
	50	2	8,0	2	609	1218
	50	3	8,0	2	655	1310
VB9	60	1	5,0	26	99	2574
	50	2	8,0	2	609	1218
	50	3	8,0	2	655	1310
VB10	60	1	5,0	41	99	4059
	50	2	8,0	2	992	1984
	50	3	10,0	1	185	185
	50	4	10,0	2	1034	2068
VB11	60	1	5,0	22	119	2618
	50	2	6,3	1	74	74
	50	3	8,0	3	627	1881
	50	4	8,0	2	665	1330
VB12	60	1	5,0	40	100	4000
	50	2	8,0	2	962	1924
	50	3	8,0	2	995	1990
VB13	60	1	5,0	14	99	1386
	50	2	8,0	3	312	936
	50	3	8,0	2	358	716
VB14	60	1	5,0	8	99	792
	50	2	8,0	2	189	378
	50	3	8,0	2	245	490
VB15	60	1	5,0	72	99	7128
	50	2	6,3	1	74	74
	50	3	8,0	3	298	894
	50	4	8,0	2	1086	2172
	50	5	8,0	1	311	311
	50	6	8,0	2	527	1054
	50	7	8,0	1	220	220
	50	8	8,0	1	230	230
	50	9	8,0	1	133	133
	50	10	8,0	1	624	624
	50	11	8,0	1	644	644
	50	12	8,0	2	1198	2396
	50	13	8,0	2	509	1018
	50	14	8,0	70	99	6930
	50	3	8,0	2	1077	2154
	50	3	10,0	2	512	1024
	50	4	10,0	1	148	148
	50	5	10,0	1	180	180
	50	6	10,0	2	1198	2396
	50	7	10,0	2	491	982
VB16	60	1	5,0	14	99	1386
	50	2	8,0	2	309	618
	50	3	8,0	2	355	710
VB18	60	1	5,0	4	100	400
	50	2	8,0	2	99	198
	50	3	8,0	2	145	290
VB19	60	1	5,0	17	99	1683
	50	2	8,0	2	372	744
	50	3	8,0	2	418	836
VB20	60	1	5,0	8	99	792
	50	2	8,0	2	212	424
	50	3	8,0	2	249	498
VB21	60	1	5,0	9	99	891
	50	2	8,0	2	238	476
	50	3	8,0	1	129	129
	50	4	8,0	2	274	548
VB22	60	1	5,0	8	99	792
	50	2	8,0	2	212	424
	50	3	8,0	1	140	140
	50	4	8,0	2	247	494
VB23	60	1	5,0	8	99	792
	50	2	8,0	2	212	424
	50	3	8,0	2	249	498
VB24	60	1	5,0	14	99	1386
	50	2	8,0	2	312	624
	50	3	8,0	2	358	716
VB25	60	1	5,0	59	99	5841
	50	2	8,0	2	1077	2154
	50	3	8,0	2	323	646
	50	4	8,0	2	1198	2396
	50	5	8,0	1	298	298
VB26	60	1	5,0	53	99	5247
	50	2	8,0	2	897	1794
	50	3	8,0	2	503	1006
	50	4	8,0	2	1198	2396
	50	5	8,0	2	298	596
VB27	60	1	5,0	65	99	6435
	50	2	8,0	2	983	1966
	50	3	8,0	2	507	1014
	50	4	8,0	1	144	144
	50	5	8,0	1	586	586
	50	6	8,0	2	1198	2396
	50	7	8,0	2	357	714
VB28	60	1	5,0	8	111	888
	50	2	8,0	3	205	615
	50	3	8,0	3	249	747
VB29	60	1	5,0	92	111	10212
	50	2	8,0	1	295	295
	50	3	8,0	2	275	550
	50	4	8,0	4	976	3904
	50	5	8,0	1	496	496
	50	6	8,0	2	205	410
	50	7	8,0	3	1198	3594
	50	8	8,0	3	844	2532
VB30	60	1	5,0	30	99	2970
	50	2	8,0	2	729	1458
	50	3	8,0	2	775	1550
VB31	60	1	5,0	16	99	1584
	50	2	8,0	2	369	738
	50	3	8,0	1	113	113
VB32	60	1	5,0	4	412	824
	60	1	5,0	8	111	888
	50	2	8,0	3	210	630
	50	3	8,0	3	254	762
VB34	60	1	5,0	27	119	3213
	50	2	8,0	1	503	503
	50	3	8,0	2	731	1462
	50	4	8,0	2	240	480
VB35	60	1	5,0	40	100	4000
	50	2	8,0	2	787	1574
	50	3	8,0	21	99	2079
	50	2	8,0	2	489	978
	50	3	10,0	2	562	1124
VB36	60	1	5,0	16	99	1584
	50	2	8,0	2	369	738
	50	3	8,0	3	423	1269

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	6,3	3,0	0,8
	8,0	960,7	417,6
	10,0	76,8	53,3
CA60	5,0	955,0	161,8
PESO TOTAL			
CA50	471,7		
CA60	161,8		

Vol. de concreto total =12,99 m³
Área de forma total = 209,40 m²

NOTAS – PROJETO DE ESTRUTURAS/FUNDAÇÕES

01 - QUALQUER MODIFICAÇÃO DO PROJETO DEVE SER FEITA MEDIANTE AVALIAÇÃO DOS AUTORES DO PROJETO;

02 - TODOS AS DIMENSÕES EM cm, SALVO REFERÊNCIA EM PLANTA;

03 - CONCRETO Fck=25 MPa PARA BLOCOS DE COROAMENTO, VIGAS, PILARES E LAJES;

04 - Fck = 20 MPa PARA AS FUNDAÇÕES;

05 - DEVE-SE FAZER CONTROLE TECNOLÓGICO DO CONCRETO UTILIZADO;

06 - RECOBRIMENTO DAS ARMADURAS:
PILARES = 2,5cm
VIGAS = 2,5cm
LAJES = 2,0cm
BLOCOS = 3 cm
ESTACAS = 4 cm

07 - AÇOS: CA-50 e CA-60;

08 - JUNTA DE DILATAÇÃO PREENCHIDA COM SELANTE À BASE DE POLIURETANO EXPANSÍVEL

Ministério da Educação

FNDE Fundo Nacional de Desenvolvimento da Educação

PROINFÂNCIA – ESPAÇO EDUCATIVO INFANTIL

ENDEREÇO:

MUNICÍPIO – UF:

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

AUTORES DO PROJETO : RICARDO FIUZA LIMA - CREA:12.848/D-DF
GLAUCYO DE OLIVEIRA SANTOS - CREA:61.887/D-MG

RESPONSÁVEL TÉCNICO:

PROPRIETÁRIO

AUTOR DO PROJETO — CREA AP-1-CREAXX

AUTOR DO PROJETO — CREA AP-2-CREAXX

RESP. TÉCNICO — CREA

DLFO

CREA

RA

PROJETO TIPO B

PROJETO ESTRUTURAL

COORDENAÇÃO
COEST – Coordenação Geral de Infra-estrutura

VIGAS BALDRAMES - PRANCHA 1

ES

REVISÃO R.02
SET.0/08

ESCALA INDICADA

DATA EMISSÃO 13/03/2008

PRANCHA 07/28

DESENHO