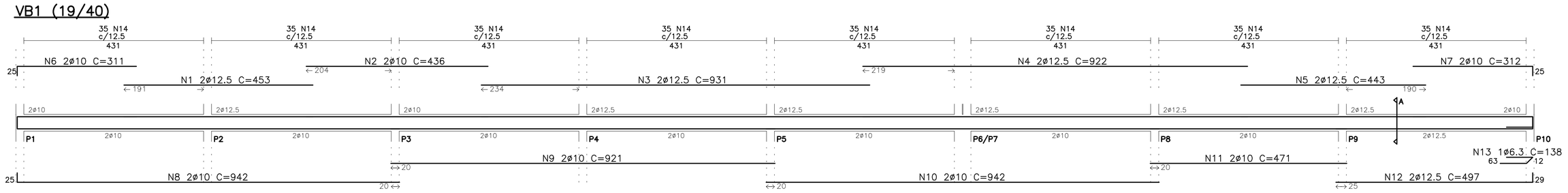
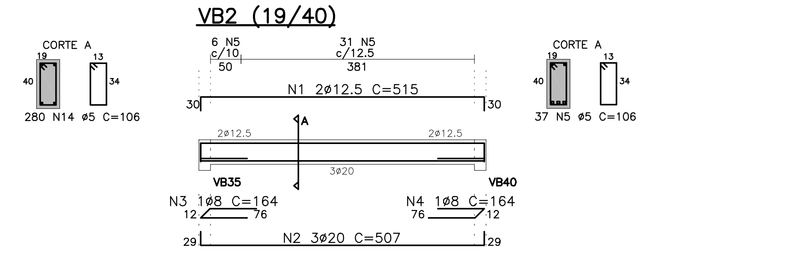
ESC. PLOT.
1=20
AO
841x1189
CORES/ESP.
RED 0,20
YELLOW 0,50
GREEN 0,30
CYAN 0,40
BLUE 0,30
MAGENTA 0,10
WHITE 0,70
COR 8 0,30

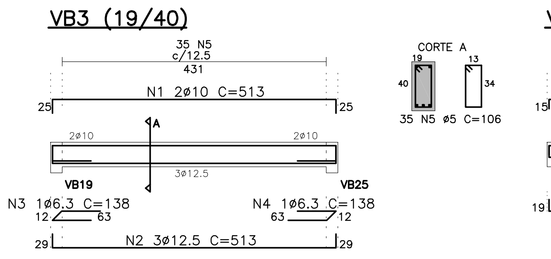
VB1 (19/40)



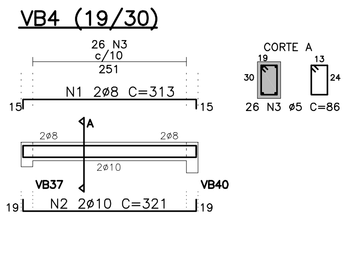
VB2 (19/40)



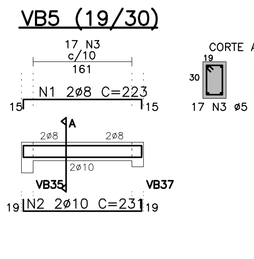
VB3 (19/40)



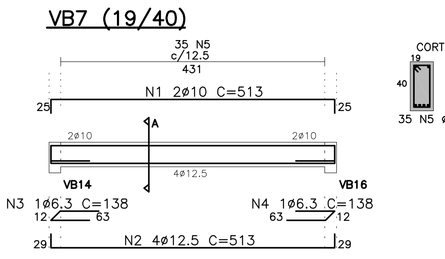
VB4 (19/30)



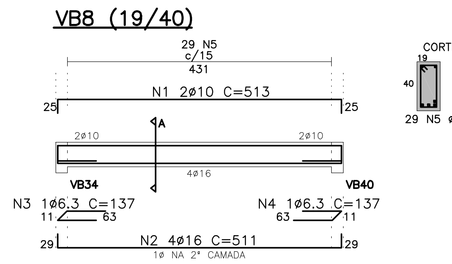
VB5 (19/30)



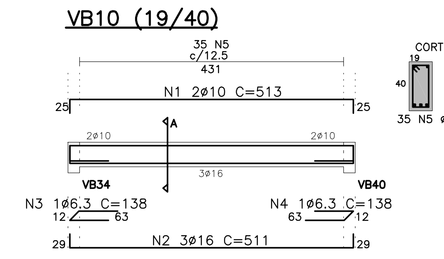
VB7 (19/40)



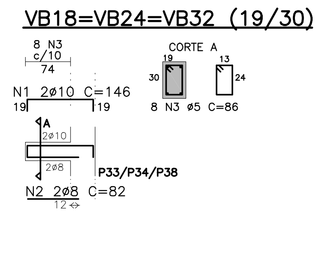
VB8 (19/40)



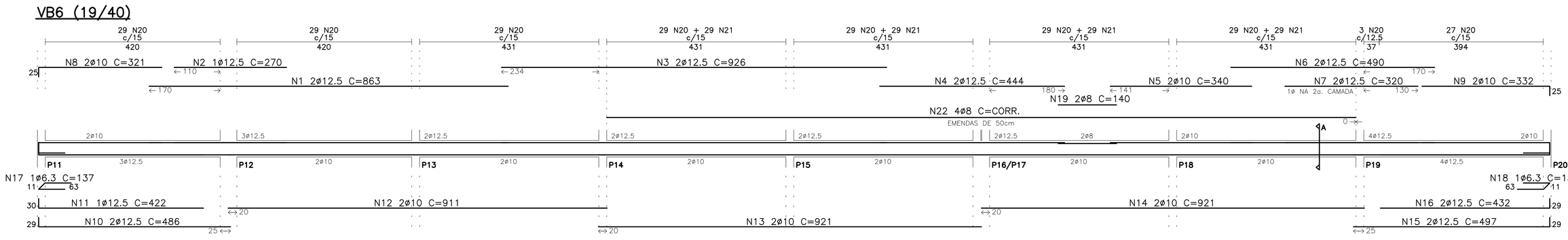
VB10 (19/40)



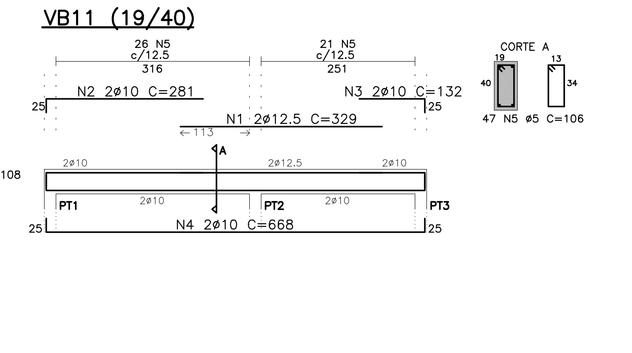
VB18=VB24=VB32 (19/30)



VB6 (19/40)



VB11 (19/40)

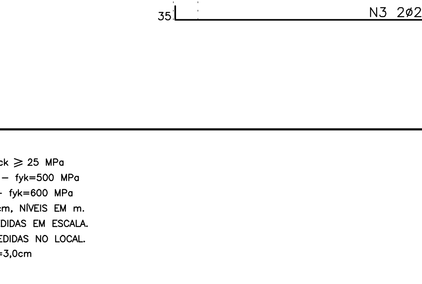


RESUMO DAS VIGAS DA FUNDAÇÃO (01/02)

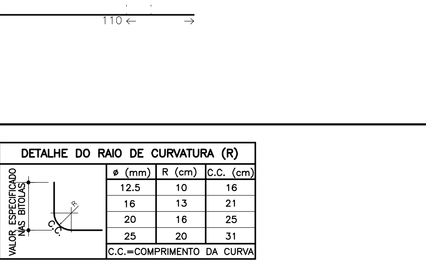
AÇO	ø	COMPR(cm)	PESO(kg)
60B	5	191190	306
50A	6.3	31052	78
50A	8	11334	46
50A	10	44434	280
50A	12.5	58296	583
50A	16	11311	181
50A	20	3961	99
50A	25	–	–
PESO TOTAL (kg)			1573

VB9 (19/40)

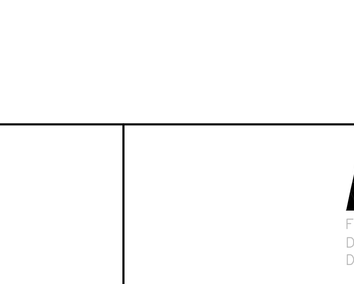
VB12 (19/40)



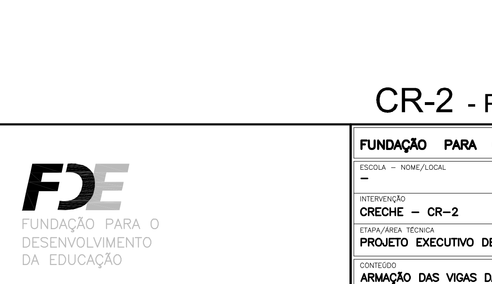
VB15 (19/30)



VB20 (19/30)



VB21 (19/30)



VB13 (19/40)

VB17 (19/40)

VB14 (19/50)

VB16 (19/50)

VB19 (19/50)

VB22 (19/40)

VB23 (19/30)

VB25 (19/50)

VB26 (19/40)

VB1

N	ø	Q	UNI	TOTAL
1	12.5	2	453	906
2	10	2	236	472
3	12.5	2	931	1862
4	12.5	2	922	1844
5	12.5	2	443	886
6	5	48	106	5088

VB18=VB24=VB32 (3x)

N	ø	Q	UNI	TOTAL
1	10	2	146	292
2	8	2	82	164
3	5	8	86	688

VB19

N	ø	Q	UNI	TOTAL
1	12.5	2	247	494
2	10	2	662	1324
3	16	2	852	1704
4	16	1	622	622
5	5	61	126	7686

VB20

N	ø	Q	UNI	TOTAL
1	8	2	233	466
2	10	2	241	482
3	5	18	86	1548

VB21

N	ø	Q	UNI	TOTAL
1	8	2	318	636
2	10	2	326	652
3	5	26	86	2236

VB22

N	ø	Q	UNI	TOTAL
1	10	2	418	836
2	12.5	4	418	1672
3	6.3	1	138	138
4	6.3	1	138	138
5	5	27	106	2862

VB23

N	ø	Q	UNI	TOTAL
1	8	2	326	652
2	10	2	326	652
3	5	26	86	2236

VB25

N	ø	Q	UNI	TOTAL
1	12.5	2	227	454
2	10	2	682	1364
3	20	2	855	1710
4	20	1	730	730
5	5	63	126	7938

VB26

N	ø	Q	UNI	TOTAL
1	10	2	693	1386
2	10	2	693	1386
3	5	46	106	4876

VB7

N	ø	Q	UNI	TOTAL
1	10	2	513	1026
2	12.5	4	513	2052
3	6.3	1	138	138
4	6.3	1	138	138
5	5	35	106	3710

VB8

N	ø	Q	UNI	TOTAL
1	10	2	513	1026
2	16	4	511	2044
3	6.3	1	137	137
4	6.3	1	137	137
5	6.3	29	108	3132

VB9

N	ø	Q	UNI	TOTAL
1	12.5	2	920	1840
2	12.5	2	240	240
3	12.5	2	450	900
4	12.5	2	251	502
5	10	2	251	502
6	10	2	343	686
7	10	2	481	962
8	12.5	2	460	920
9	10	2	461	922
10	12.5	2	518	1036
11	12.5	1	410	410
12	5	136	106	14416

VB10

N	ø	Q	UNI	TOTAL
1	10	2	513	1026
2	16	2	511	1533
3	6.3	1	138	138
4	6.3	1	138	138
5	5	35	106	3710

VB11

N	ø	Q	UNI	TOTAL
1	12.5	2	329	658
2	10	2	281	562
3	10	2	132	264
4	10	2	668	1336
5	5	47	106	4982

VB12

N	ø	Q	UNI	TOTAL
1	10	2	453	906
2	12.5	3	453	1359
3	6.3	1	138	138
4	6.3	1	138	138
5	5	30	106	3180

VB13

N	ø	Q	UNI	TOTAL
1	12.5	2	840	1680
2	12.5	1	260	260
3	12.5	2	290	580
4	12.5	2	930	1860
5	12.5	1	260	260
6	12.5	2	979	1958
7	12.5	1	271	271
8	12.5	2	448	896
9	12.5	1	270	270
10	10	2	311	622
11	10	2	312	624
12	12.5	2	497	994
13	10	2	471	942
14	12.5	2	481	962
15	12.5	1	330	330
16	10	2	471	942
17	12.5	2	481	962
18	10	2	921	1842
19	12.5	2	497	994
20	6.3	1	138	138
21	6.3	1	138	138
22	5	286	106	30316

VB14

N	ø	Q	UNI	TOTAL
1	12.5	2	567	1134
2	16	2	931	1862
3	12.5	2	617	1234
4	12.5	2	725	1450
5	12.5	1	551	551
6	12.5	2	507	1014
7	12.5	2	815	1630
8	12.5	2	615	1230
9	5	150	126	18900

VB15

N	ø	Q	UNI	TOTAL
1	10	2	383	766
2	12.5	2	373	746
3	6.3	1	138	138
4	6.3	1	138	138
5	5	32	86	2752

VB16

N	ø	Q	UNI	TOTAL
1	10	2	561	1122
2	16	2	930	1860
3	12.5	2	628	1256
4	12.5	2	725	1450
5	12.5	1	526	526
6	12.5	2	507	1014
7	16	2	843	1686
8	5	152	126	19152

CR-2 - PADRÃO SAPATA 204

No.	MODIFICAÇÕES	APROVAÇÃO AUTOR DO PROJETO	DATA	APROVAÇÃO FDE	DATA
9					
8					
7					
6					
5					
4					
3					
2					
1					

OBSERVAÇÕES

DESENHO DE REFERÊNCIA

No.	APROVAÇÃO	DATA
	AUTOR DO PROJETO	
	FDE	

NOTAS=

01-CONCRETO= fck ⩾ 25 MPa
02-AÇO= CA-50 – fyk=500 MPa
CA-60 – fyk=600 MPa
03-MEDIDAS EM cm, NÍVEIS EM m.
04-NÃO TIRAR MEDIDAS EM ESCALA.
05-CONFIRMAR MEDIDAS NO LOCAL.
06- COBRIMENTO=3,0cm

DETALHE DO RAIO DE CURVATURA (R)

ø (mm)	R (cm)	C.C. (cm)
12.5	10	16
16	13	21
20	16	25
25	20	31

C.C.=COMPRIMENTO DA CURVA

FDE FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO

FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO – F D E

ESCOLA – NOME/LOCAL: –			CÓDIGO: 120104-6
INTERVENÇÃO: CRECHE – CR-2			No LEED: 00
ETAPA/ÁREA TÉCNICA: PROJETO EXECUTIVO DE ESTRUTURA	TIPO PROJETO: PADRÃO	DATA: MAR/2011	ETAPA/ÁREA TÉCNICA: PE – EST
CONTEÚDO: ARMAÇÃO DAS VIGAS DA FUNDAÇÃO (01/02)		ESCALA: INDICADA	FOLHA: 21/00 REVISÃO: 00

DESENHO GERADO PELO SISTEMA CAD – POR ENGECALC ENGENHARIA E PROJETOS ESTRUTURAIS S/C LTDA

1201046_00DPE3100_01