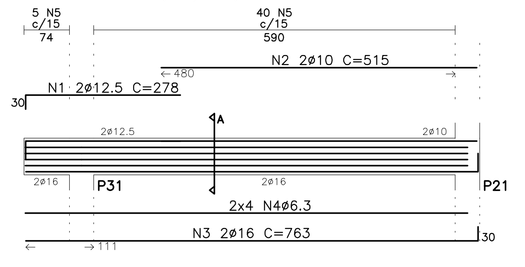
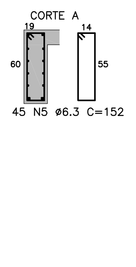
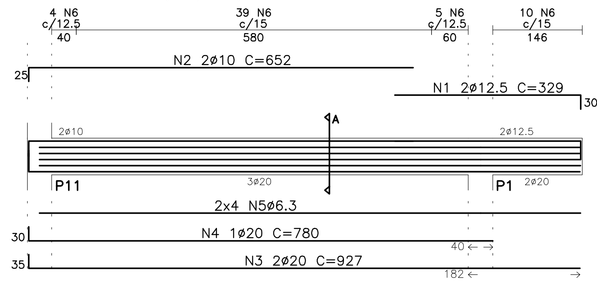
ESC. PLOT. 1=20
AO 841x1189
CORES/ESP.
RED 0,20
YELLOW 0,50
GREEN 0,30
CYAN 0,40
BLUE 0,30
MAGENTA 0,10
WHITE 0,70
COR 8 0,30

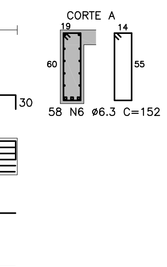
V117=V139 (19/60)



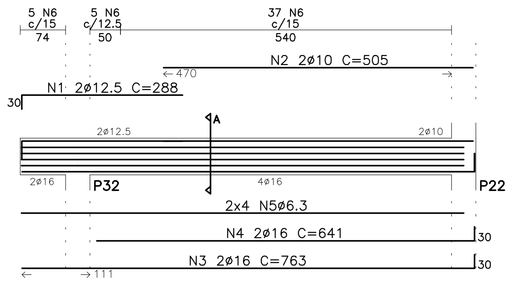


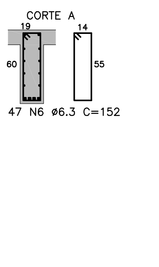
V120=V142 (19/60)



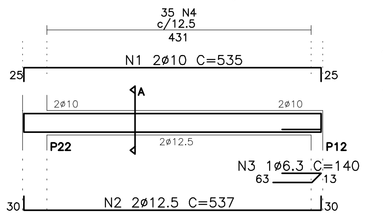


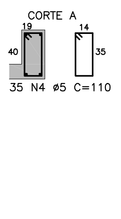
V121=V128=V134=V136 (19/60)



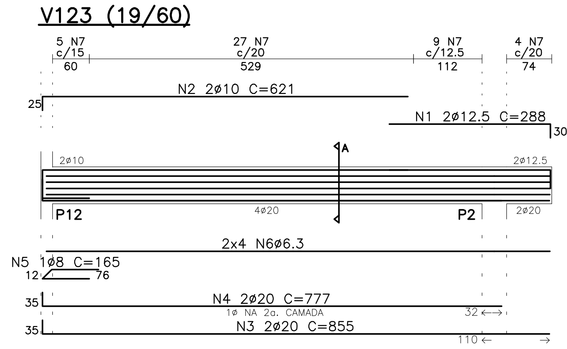


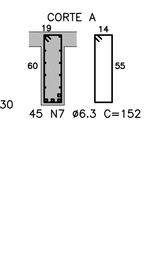
V122=V137 (19/40)



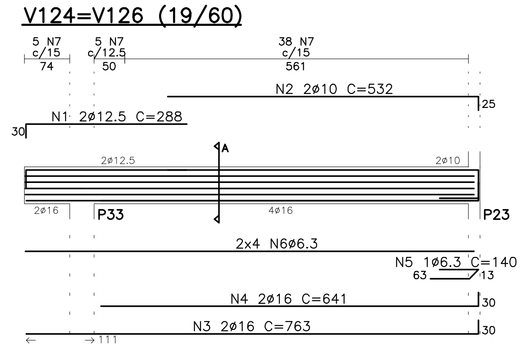


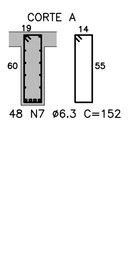
V123 (19/60)



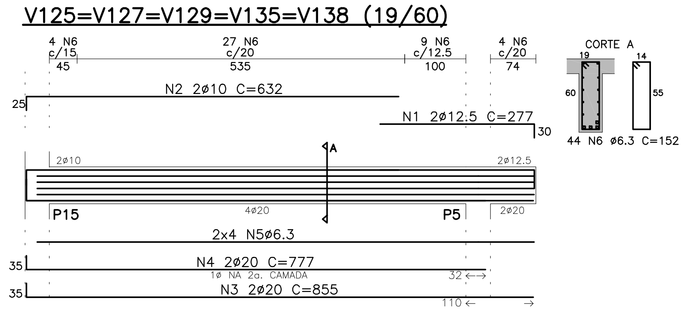


V124=V126 (19/60)

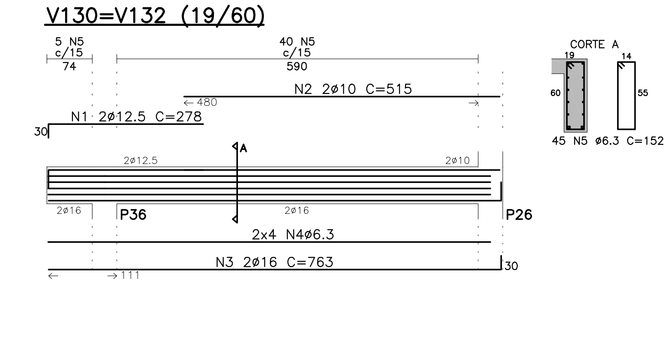




V125=V127=V129=V135=V138 (19/60)



V130=V132 (19/60)



V131=V133 (19/60)

V143 (19/37)

V117=V139 (2x)

N	ø	Q	UNI	TOTAL
1	12.5	2	278	556
2	10	2	515	1030
3	16	2	763	1526
4	6.3			5892
5	6.3	45	152	6840

V120=V142 (2x)

N	ø	Q	UNI	TOTAL
1	12.5	2	329	658
2	10	2	652	1304
3	20	2	927	1854
4	20	1	780	780
5	6.3			7205
6	6.3	58	152	8816

V121=V128=V134=V136 (4x)

N	ø	Q	UNI	TOTAL
1	12.5	2	288	576
2	10	2	505	1010
3	16	2	763	1526
4	16	2	641	1282
5	6.3			5892
6	6.3	47	152	7144

V122=V137 (2x)

N	ø	Q	UNI	TOTAL
1	10	2	535	1070
2	12.5	2	537	1074
3	6.3	1	140	140
4	5	35	110	3850

V123 (2x)

N	ø	Q	UNI	TOTAL
1	12.5	2	288	576
2	10	2	621	1242
3	20	2	855	1710
4	20	2	777	1554
5	8	1	165	165
6	6.3			6708
7	6.3	45	152	6840

V124=V126 (2x)

N	ø	Q	UNI	TOTAL
1	12.5	2	288	576
2	10	2	532	1064
3	16	2	763	1526
4	16	2	641	1282
5	6.3	1	140	140
6	6.3			5973
7	6.3	48	152	7296

V125=V127=V129=V135=V138 (5x)

N	ø	Q	UNI	TOTAL
1	12.5	2	277	554
2	10	2	632	1264
3	20	2	855	1710
4	20	2	777	1554
5	6.3			6618
6	6.3	44	152	6688

V130=V132 (2x)

N	ø	Q	UNI	TOTAL
1	12.5	2	278	556
2	10	2	515	1030
3	16	2	763	1526
4	6.3			5892
5	6.3	45	152	6840

V131=V133 (2x)

N	ø	Q	UNI	TOTAL
1	12.5	2	257	514
2	10	2	652	1304
3	16	2	852	1704
4	16	1	702	702
5	6.3			6618
6	6.3	51	152	7752

V143

N	ø	Q	UNI	TOTAL
1	10	2	604	1208
2	10	2	518	1036
3	5	39	104	4056

RESUMO DAS VIGAS DA COBERTURA (02/02)

AÇO	ø	COMPR(cm)	PESO(kg)
60B	5	11756	19
50A	6.3	271030	678
50A	8	165	1
50A	10	27450	173
50A	12.5	13518	136
50A	16	27764	445
50A	20	24852	622
PESO TOTAL (kg)			2074

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=2,5cm.

DETALHE DO RAIO DE CURVATURA (R)

VALOR ESPECIFICADO NAS BITOLAS

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

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	

FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO - F D E

ESCOLA - NOME/LOCAL: -

CÓDIGO: 1 2 0 1 0 4 6

INTERVENÇÃO: CRECHE - CR-2

No LEME: 00

ETAPA/ÁREA TÉCNICA: PROJETO EXECUTIVO DE ESTRUTURA

TIPO PROJETO: PADRÃO

DATA: MAR/2011

ETAPA/ÁREA TÉCNICA: PE - EST

CONTEÚDO: ARMAÇÃO DAS VIGAS DA COBERTURA (02/02)

ESCALA: INDICADA

FOLHA: 16/00

REVISÃO: 00

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

1201046_00EPE1600_01