

Forma do pavimento PAV. LAJE
escala 1:50

Nome	Seção	Vigas	Nível
VL1	15x50	0	310
VL2	15x50	0	310
VL3	15x50	0	310
VL4	15x50	0	310
VL5	15x50	0	310
VL6	20x50	0	310
VL7	15x50	0	310
VL8	15x50	0	310
VL9	15x50	0	310
VL10	15x50	0	310
VL11	15x50	0	310
VL12	15x50	0	310
VL13	15x50	0	310
VL14	15x50	0	310
VL15	20x50	0	310
VL16	15x50	0	310
VL17	15x50	0	310
VL18	15x50	0	310
VL20	20x50	0	310
VL21	15x50	0	310
VL22	20x50	0	310
VL23	15x50	0	310
VL24	20x50	0	310
VL25	15x50	0	310
VL26	15x50	0	310
VL27	20x50	0	310
VL28	15x50	0	310
VL29	15x50	0	310
VL30	20x50	0	310
VL31	15x50	0	310
VL32	20x50	0	310

Blocos de enchimento		Dimensões (cm)		Quantidade	
Detalhe	Tipo	Nome	12	40	100
1	EPS Unidirecional	B17/40/100	12	40	100
2	EPS Unidirecional	B19/40/100	16	40	100
					185

Nome	Tipo	Altura (cm)	Espessura (cm)	Nível (cm)	Densidade (kg/m³)	Adicional	Substituição (kg/m³)	Acidental	Localizada
L1	Trefilada D	20	0	310	188	70	50	-	-
L2	Trefilada D	20	0	310	188	70	50	-	-
L3	Trefilada D	16	0	310	157	70	50	-	-
L4	Trefilada D	16	0	310	162	70	50	-	-
L5	Trefilada D	16	0	310	157	70	50	-	-
L6	Trefilada D	16	0	310	157	70	50	-	-
L7	Trefilada D	16	0	310	157	70	50	-	-
L8	Trefilada D	16	0	310	157	1080	50	-	-
L9	Trefilada D	16	0	310	157	70	50	-	-
L10	Trefilada D	16	0	310	157	70	50	-	-
L11	Trefilada D	16	0	310	157	70	50	-	-
L12	Trefilada D	16	0	310	162	70	50	-	-
L13	Trefilada D	16	0	310	157	70	50	-	-
L14	Trefilada D	16	0	310	157	70	50	-	-
L15	Trefilada D	16	0	310	157	70	50	-	-
L16	Trefilada D	16	0	310	157	70	50	-	-
L17	Trefilada D	16	0	310	157	70	50	-	-
L18	Trefilada D	16	0	310	157	70	50	-	-

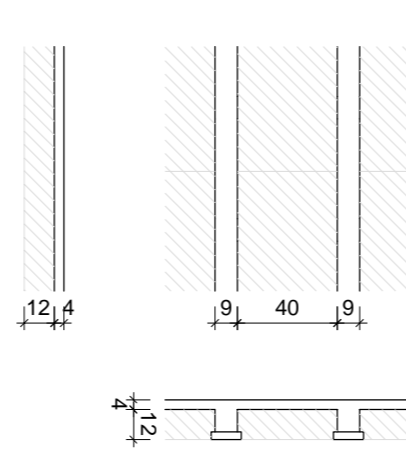
Lajes		Peso próprio (kg/m²)		Adicional		Localizada	
Nome	Tipo	Altura (cm)	Densidade (kg/m³)	Adicional	Localizada	Adicional	Localizada
PP1(NASCEI)	Trefilada D	20	188	50	-	50	-
PP2(NASCEI)	Trefilada D	20	188	50	-	50	-
PP3(NASCEI)	Trefilada D	16	157	50	-	50	-
PP4(NASCEI)	Trefilada D	16	162	50	-	50	-
PP5(MORRE)	Trefilada D	16	157	50	-	50	-
PP6(NASCEI)	Trefilada D	16	157	50	-	50	-
PP7(NASCEI)	Trefilada D	16	157	50	-	50	-
PP8(NASCEI)	Trefilada D	16	157	50	-	50	-
PP9(NASCEI)	Trefilada D	16	157	50	-	50	-
PP10(NASCEI)	Trefilada D	16	157	50	-	50	-
PP11(NASCEI)	Trefilada D	16	157	50	-	50	-
PP12(NASCEI)	Trefilada D	16	157	50	-	50	-
PP13(NASCEI)	Trefilada D	16	157	50	-	50	-
PP14(NASCEI)	Trefilada D	16	157	50	-	50	-
PP15(NASCEI)	Trefilada D	16	157	50	-	50	-

Características dos materiais		Especificações	
Ítem	Unidade	Valor	Valor
1	kg/m³	12	40
2	kg/m³	16	40
			100
			185

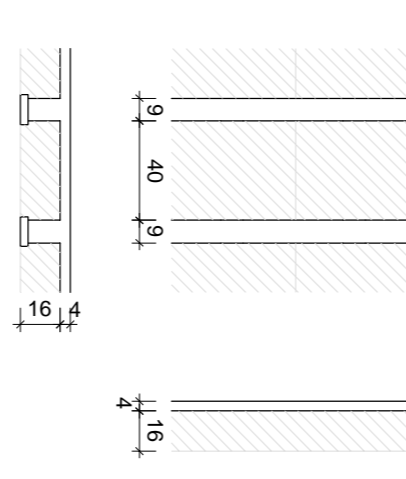
Legenda dos Pilares	
	Pilar que mais
	Pilar que passa
	Pilar que mais
	Pilar com mudança de seção

Legenda dos Pilares	
	Pilar que mais
	Pilar que passa
	Pilar que mais
	Pilar com mudança de seção

Detalhe 1 (esc. 1:30)



Detalhe 2 (esc. 1:30)



CRAS - JD BEM VIVER Rua	FUTURE ...	PROJETO ESTRUTURAL FORMA PAV. LAJES PLATA DE FORMAS 12	001 ANEXO
CLIENTE: ENG. RENON H. DATA: 31/08/2017	PROJETO: ENG. RENON H. DATA: 31/08/2017	LOCAL: ...	ESCALA: ...

Relação do aço

ELEMENTO	AÇO	N	DIMM	Q	UNIT	C'TOTAL
60P1	C450	1	5,0	186	40	20832
	C450	2	5,0	372	40	20832
P2	C450	3	10,0	48	348	16704
	C450	2	10,0	31	102	3162
	C450	2	10,0	4	307	1228
	C450	2	10,0	4	348	1392
P4	C450	1	5,0	31	122	3762
	C450	2	5,0	31	35	1085
34P6	C450	3	10,0	63	348	2088
	C450	2	10,0	93	102	9486
P9	C450	2	5,0	31	150	4602
	C450	1	5,0	62	40	2480
P10	C450	2	5,0	62	40	2480
	C450	1	5,0	31	142	4402
P11	C450	2	5,0	31	150	4602
	C450	1	5,0	31	100	3100
P12	C450	2	10,0	31	132	1728
	C450	2	10,0	4	307	1228
P13	C450	1	5,0	31	136	4218
	C450	2	5,0	62	32	1984
P14	C450	2	5,0	31	142	4402
	C450	2	5,0	31	142	4402
P17	C450	3	5,0	31	45	1395
	C450	4	10,0	31	82	2542
P19	C450	2	5,0	31	132	4092
	C450	2	10,0	4	307	1228
P20	C450	3	5,0	62	150	9300
	C450	1	5,0	62	50	3100
P21	C450	2	5,0	62	50	3100
	C450	2	10,0	8	248	2784
24P22	C450	2	12,5	6	104	3224
	C450	2	12,5	6	357	2142
P23	C450	2	10,0	62	92	2458
	C450	2	10,0	31	122	1682
P25	C450	2	5,0	31	35	1085
	C450	2	10,0	6	307	1842
P25	C450	1	5,0	31	82	2542
	C450	2	10,0	2	307	1228

Resumo do aço

AÇO	DIMM	C'TOTAL	PESO
C450	10,0	554,6	341,9
C450	12,5	2,1	20,6
C450	12,5	125,3	189,3
PESO TOTAL			553,8
C450	382,6		
C450	189,6		

Vol. de concreto total (C-250) = 6,83 m³
 Área da forma total = 20,26 m²

P1=P3=P5=P15=P16=P18

P2

P4

P6=P7=P8

P9

P10

P11

P12

P13

P14

P17

P19

P20

P21

P22=P24

P23

P25

ALTERAÇÃO		DATA	TIPO	ELABORAÇÃO	REVISÃO
<p>PROJETO ESTRUTURAL</p> <p>ARMADAÇÃO DE PILARES - PAV LAJES</p>			<p>PROJETO ESTRUTURAL</p> <p>ARMADAÇÃO DE PILARES - PAV LAJES</p>		
INDICAÇÃO	CLIENTE	PROF. MUNIC. DE STO ANT. DO LESTE	PROF. MUNIC. DE STO ANT. DO LESTE		
ESCALA	INDICAÇÃO	DATA	ESCALA	PROJETA	PROJETA

FUTURO

PROJETO DE ARQUITETURA

CRAS - JD BEM VIVER

ROTELO 173, S/N, FLORES DE CAVALHEIROS, SP

PROJ. ARCH. S.P. 101/11.000/11.000

PROJ. ARCH. S.P. 101/11.000/11.000

PROJ. ARCH. S.P. 101/11.000/11.000

FEDERHENRIQUE DE A. MOURA

ENG. CIVIL, CREA/MG 02337

PROJ. ARCH. S.P. 101/11.000/11.000

PROJ. ARCH. S.P. 101/11.000/11.000

PROJ. ARCH. S.P. 101/11.000/11.000

PROJ. ARCH. S.P. 101/11.000/11.000

EST

PROJ. ARCH. S.P. 101/11.000/11.000

PROJ. ARCH. S.P. 101/11.000/11.000

PROJ. ARCH. S.P. 101/11.000/11.000

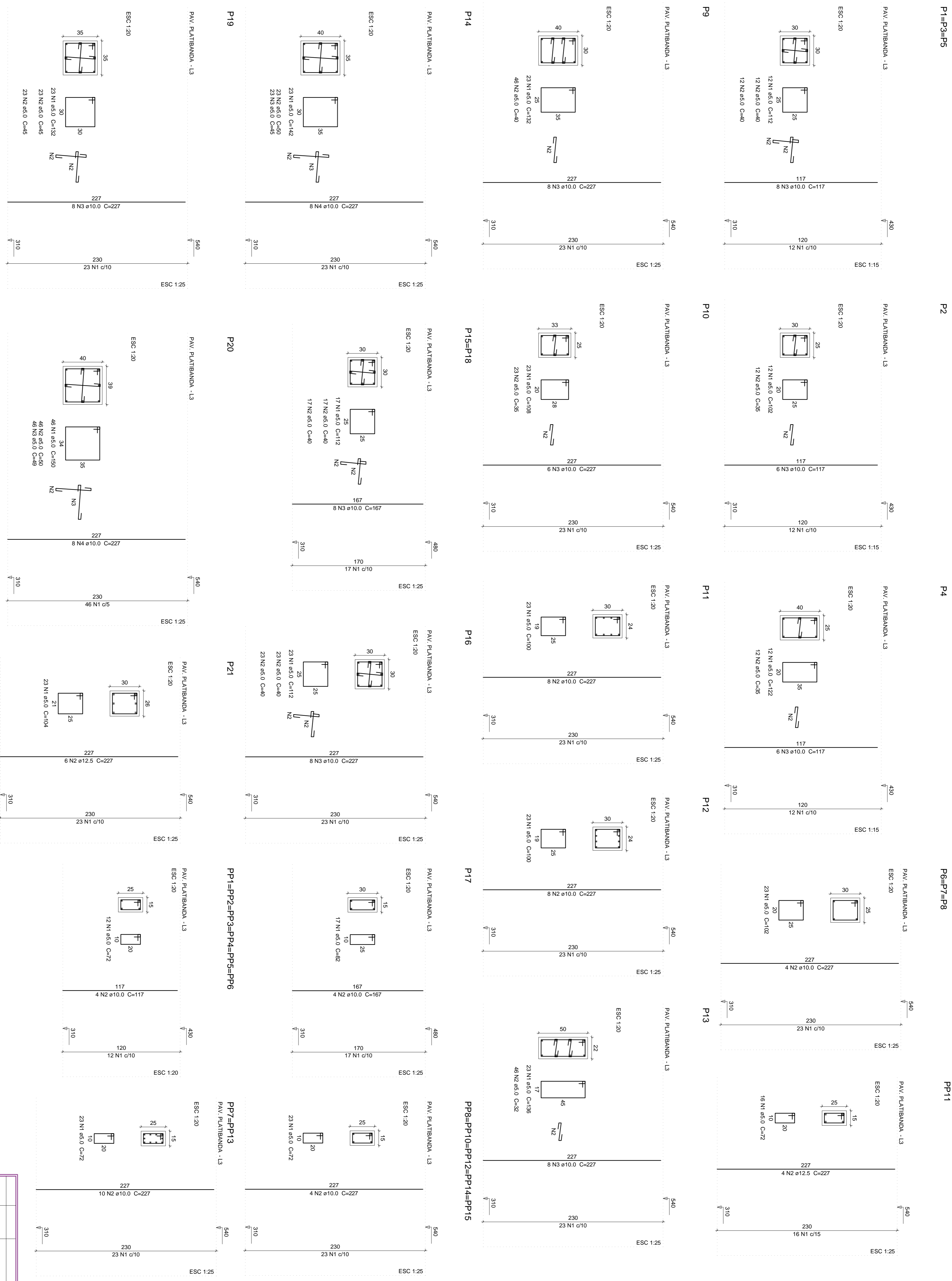
Relação do aço

ELEMENTO	AÇO	N	DIMAT	Q	UMIT	C.TOTAL
3xP1	C460	1	5,0	36	112	60032
	C450	2	5,0	72	40	2880
	C450	3	10,0	24	117	2808
P2	C460	1	5,0	12	102	1224
	C460	2	10,0	12	102	1224
	C460	3	5,0	11	135	1485
P4	C460	1	5,0	12	122	1464
	C460	2	5,0	12	122	1464
	C460	3	5,0	29	72	2088
3xP6	C460	1	5,0	69	102	7028
	C460	2	10,0	22	227	2728
	C460	3	5,0	46	40	1840
P9	C460	1	5,0	23	108	2484
	C460	2	5,0	23	35	805
	C460	3	10,0	16	167	2572
P10	C460	1	5,0	23	108	2484
	C460	2	5,0	23	45	1035
	C460	3	5,0	23	142	3298
P11	C460	1	5,0	46	32	1472
	C460	2	10,0	6	227	2582
	C460	3	5,0	23	100	2300
P12	C460	1	5,0	23	112	3128
	C460	2	5,0	23	112	3128
	C460	3	5,0	23	142	3298
P13	C460	1	5,0	23	136	3128
	C460	2	5,0	46	32	1472
	C460	3	10,0	16	167	2572
2xP15	C460	1	5,0	24	112	3098
	C460	2	10,0	16	167	2572
	C460	3	5,0	23	112	2576
P16	C460	1	5,0	46	40	1840
	C460	2	5,0	46	40	1840
	C460	3	10,0	8	227	1816
P17	C460	1	5,0	17	82	1384
	C460	2	10,0	23	137	3068
	C460	3	5,0	23	137	3068
P19	C460	1	5,0	46	45	2070
	C460	2	5,0	46	45	2070
	C460	3	10,0	20	227	6280
P20	C460	1	5,0	46	50	6900
	C460	2	5,0	46	50	2300
	C460	3	10,0	23	104	2392
P21	C460	1	5,0	23	104	2392
	C460	2	12,5	6	227	1362
	C460	3	5,0	72	72	5184
2xP17	C460	1	5,0	24	117	2808
	C460	2	10,0	22	227	2512
	C460	3	5,0	20	72	6280
5xP18	C460	1	10,0	20	227	4540
	C460	2	5,0	29	72	2088
	C460	3	10,0	8	287	2286
PP11	C450	1	5,0	16	72	1152
	C450	2	5,0	16	72	1152
	C450	3	10,0	4	152	592

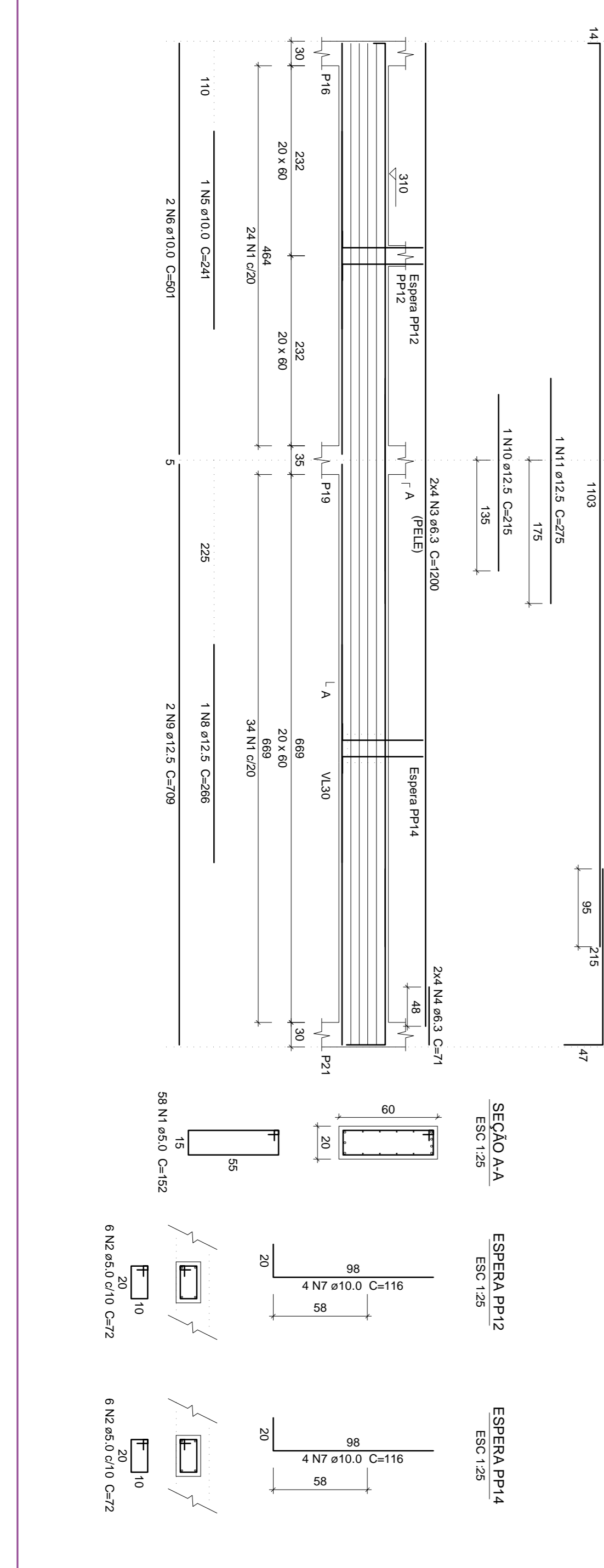
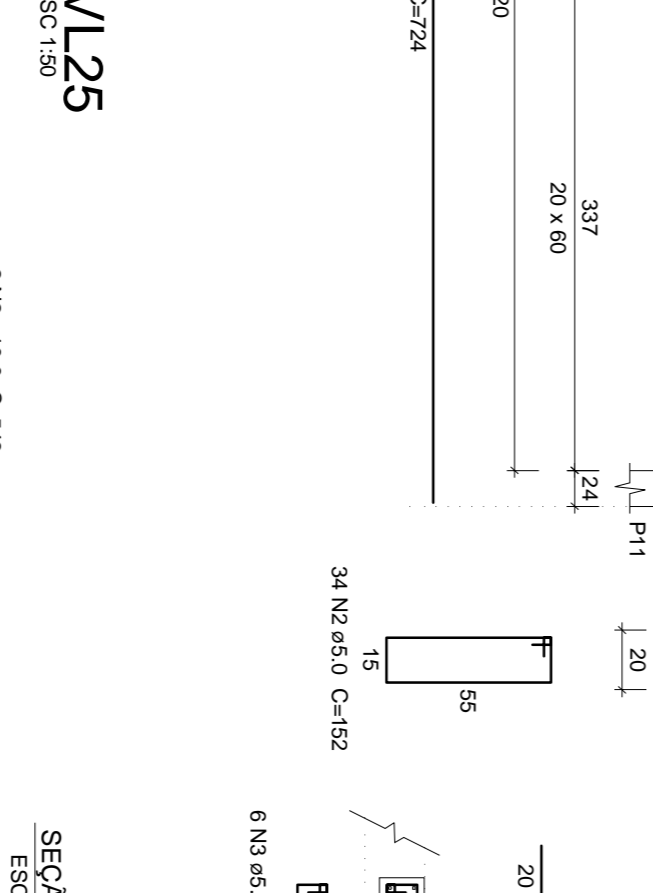
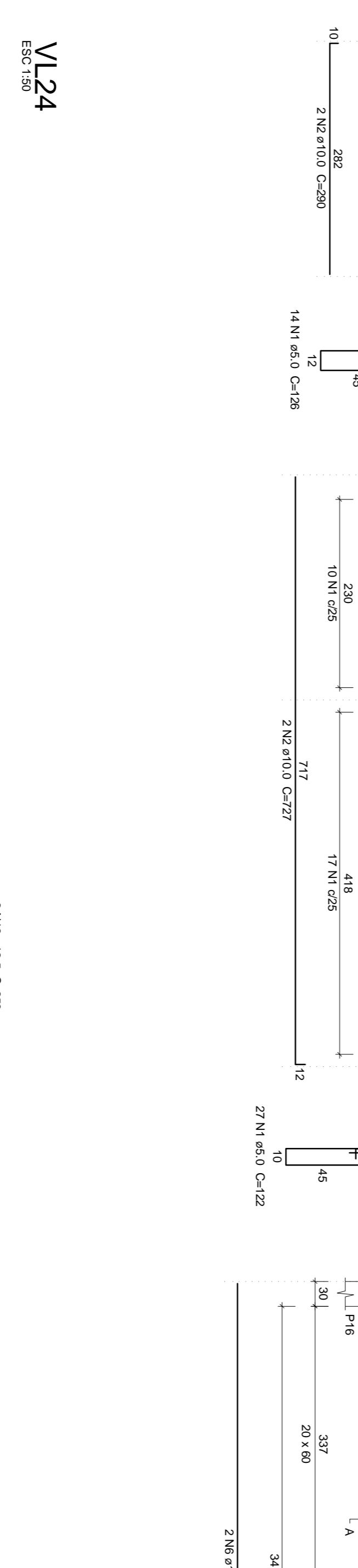
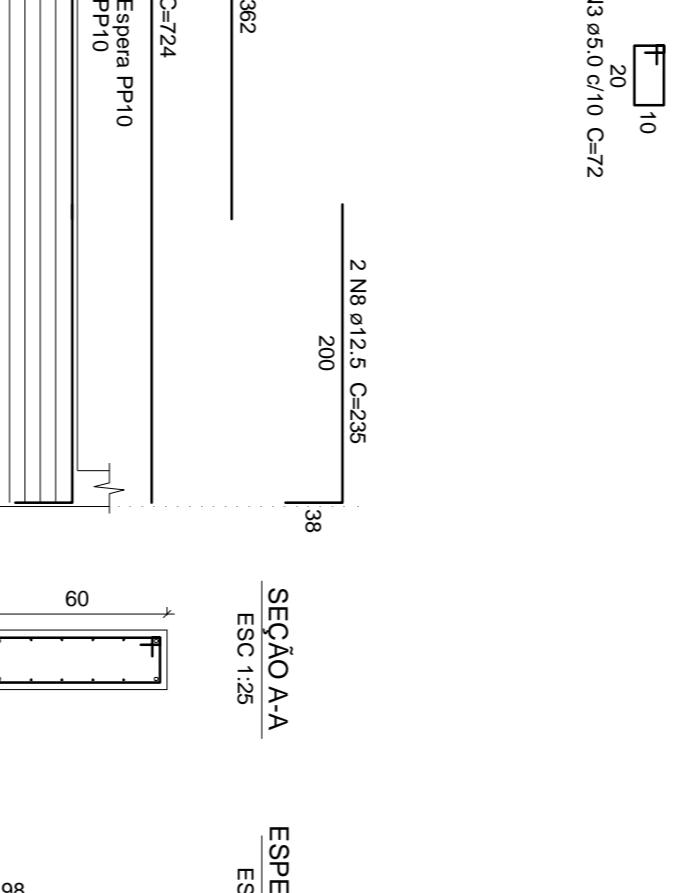
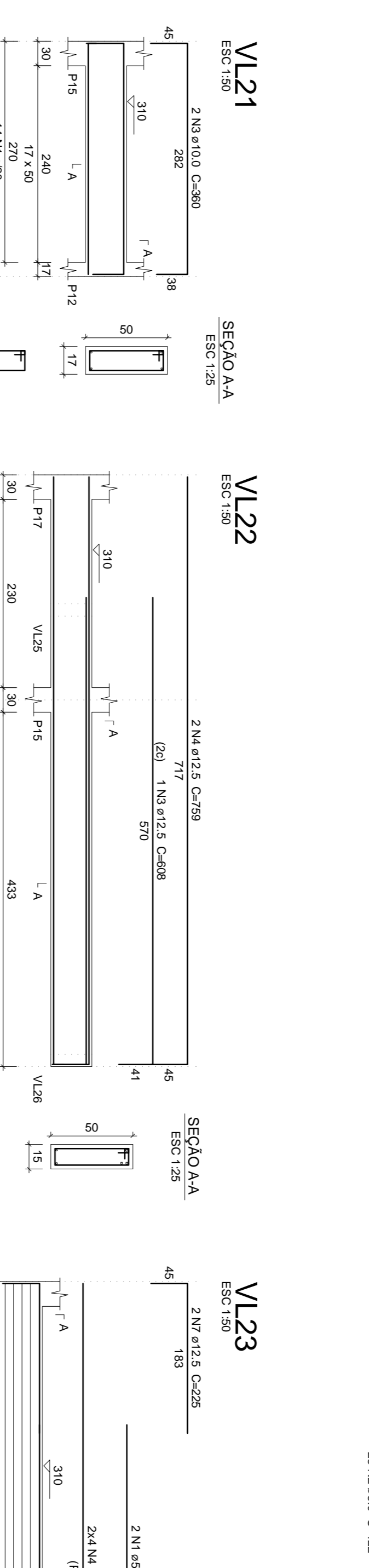
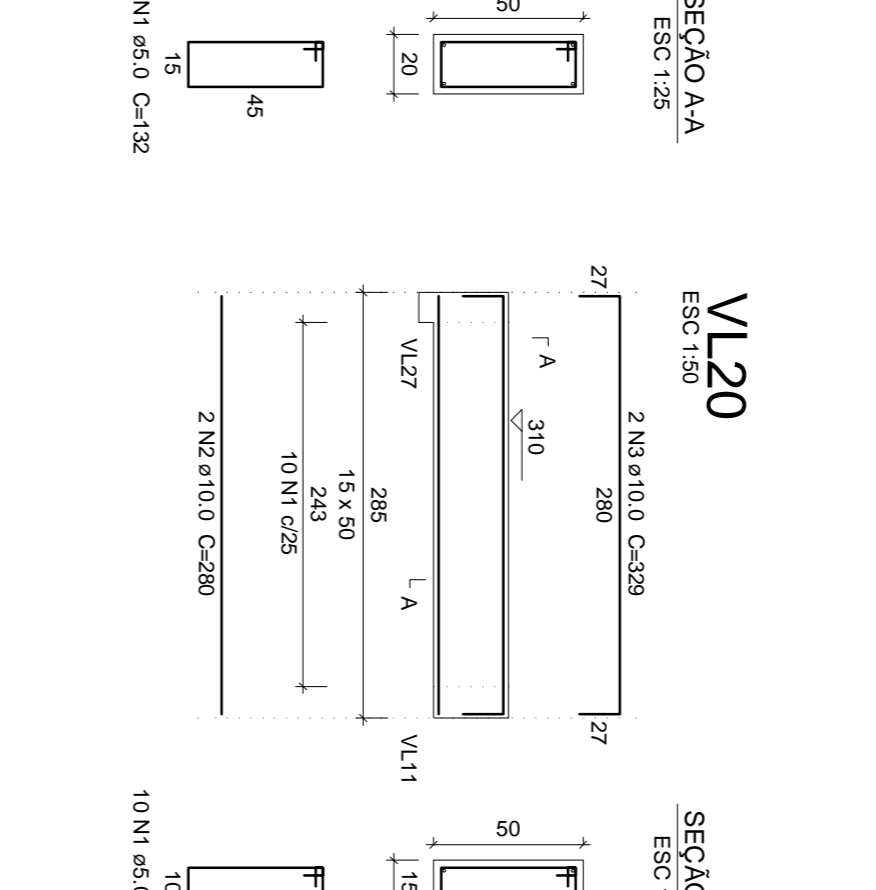
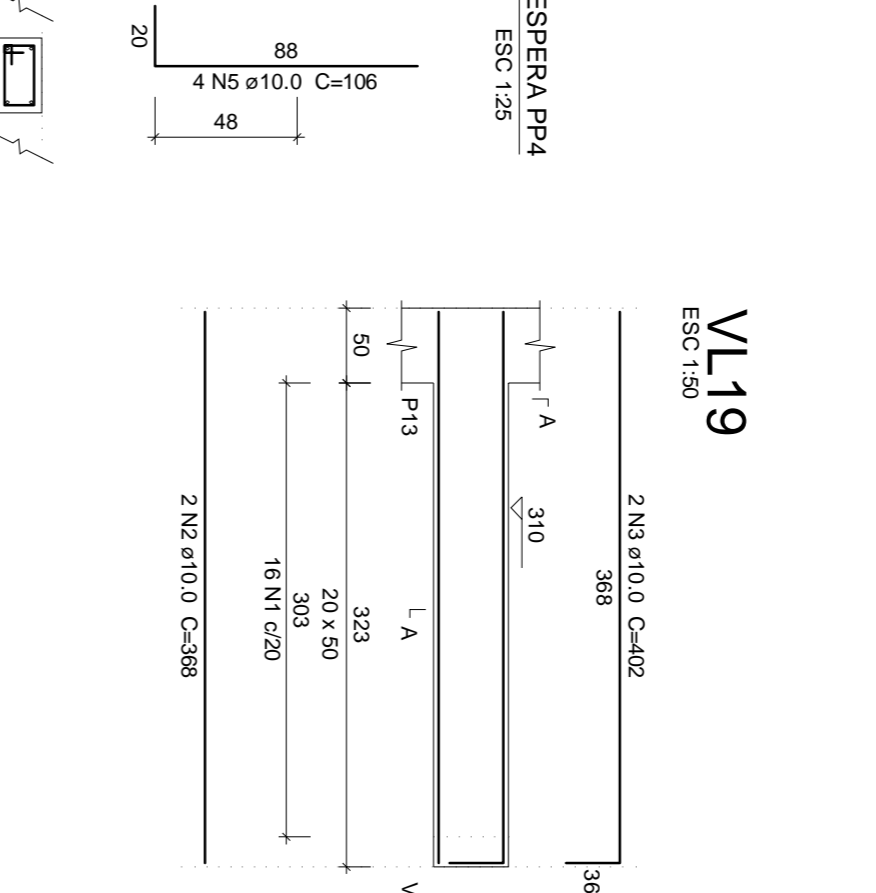
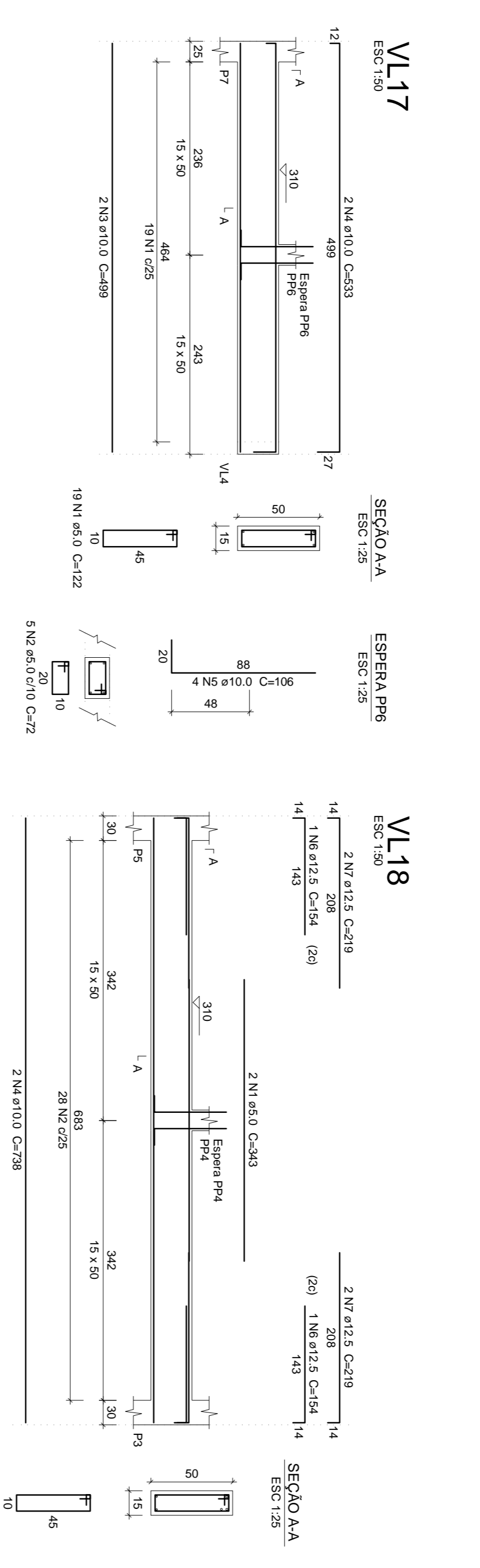
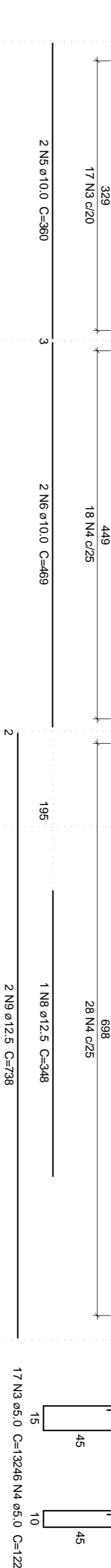
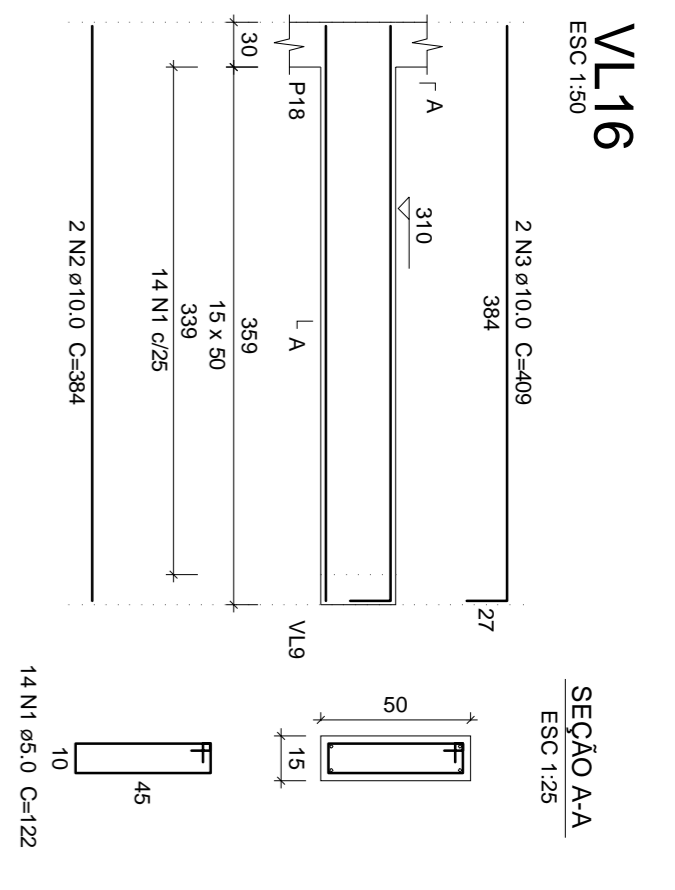
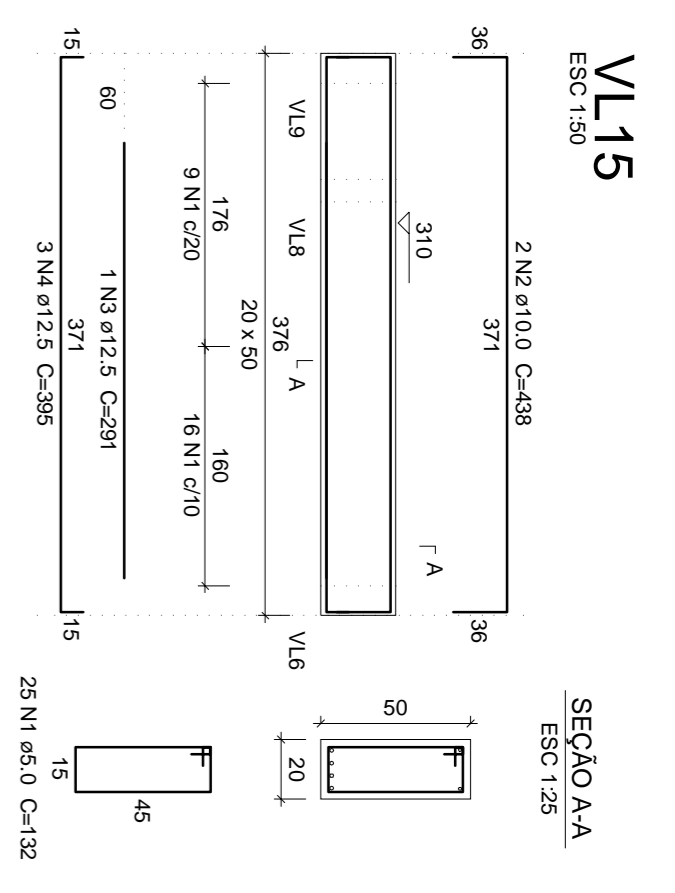
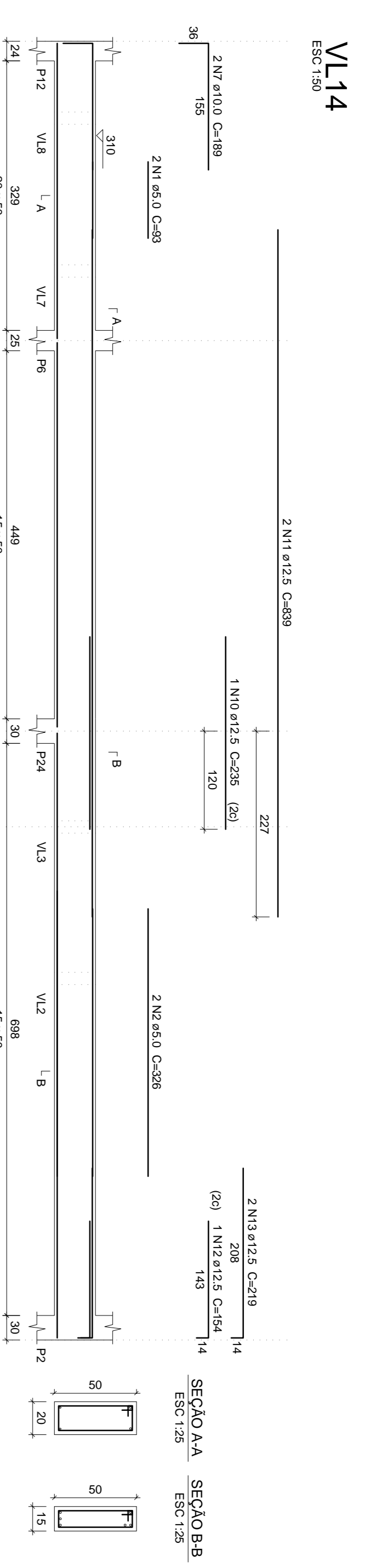
Resumo do aço

AÇO	DIMAT	C.TOTAL	RESO
C450	10,0	103,5	48,8
C450	12,5	227	21,9
C450	5,0	916	141,2
RESO TOTAL			271,9
C460	141,2		

PAV. PLATIBANDA - L3
 Área de forma total = 73,01 m²
 Valor de referência C=250 = 4,9 m



ALTERAÇÃO	DATA	INTERNO
REVISÃO	000	EMISSÃO INICIAL
<p>CRAS - JD BEM VIVER</p> <p>CRAS - JD BEM VIVER RUA JOSÉ DE ALMEIDA, 100 - JARDIM SANTA LUCIA - SÃO CARLOS - SP - 13506-900 FONE: (19) 3432-1000 - FAX: (19) 3432-1001 - E-MAIL: CRAS@CRAS.COM.BR</p>		
<p>PROJETO ESTRUTURAL</p> <p>ARMADAÇÃO DE PILARES - PAV. PLATIBANDA</p>		
<p>PROF. MUNIC. DE SÃO ANT. DO LESTE</p>		
INDICAÇÃO	CLIENTE	PROJETO
ESCALA	RESENHO	PRIMEIRA
<p>004</p>		



Relatório do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT	C'TOTAL
VL14	CA60	1	5.0	2	93	601196
	CA60	2	3.26	652	186	
	CA60	3	5.0	17	132	2244
	CA60	4	5.0	46	122	56172
	CA60	5	10.0	2	280	720
	CA60	7	10.0	2	188	3278
VL15	CA50	8	12.5	1	348	348
	CA50	9	12.5	1	798	346
	CA50	10	12.5	2	235	235
	CA50	11	12.5	2	839	1678
	CA50	13	12.5	2	214	438
	CA60	1	5.0	25	132	3300
VL16	CA50	3	12.5	1	438	876
	CA50	4	12.5	3	385	291
	CA50	5	5.0	14	122	1788
	CA50	2	10.0	4	409	1636
	CA50	3	10.0	2	409	818
	CA50	1	5.0	19	122	2318
VL17	CA60	2	5.0	72	360	360
	CA50	3	10.0	2	489	968
	CA50	4	10.0	2	533	1066
	CA50	1	5.0	2	343	686
	CA60	2	5.0	28	122	3416
	CA50	3	5.0	72	360	360
VL18	CA50	4	10.0	4	106	424
	CA50	5	10.0	2	106	212
	CA50	7	12.5	4	219	876
	CA60	1	5.0	16	132	2112
	CA50	2	10.0	2	368	736
	CA50	3	10.0	2	402	804
VL19	CA60	1	5.0	10	122	1220
	CA60	2	5.0	10	122	1220
	CA50	3	10.0	2	320	640
	CA60	2	10.0	14	126	1794
	CA50	3	10.0	2	329	658
	CA60	2	10.0	2	290	580
VL20	CA50	3	10.0	2	360	720
	CA50	1	5.0	27	122	3294
	CA50	2	10.0	2	27	54
	CA50	3	5.0	6	72	432
	CA60	2	5.0	6	72	432
	CA60	3	5.0	6	72	432
VL21	CA50	5	10.0	3	114	570
	CA50	6	12.5	2	174	148
	CA50	7	12.5	2	225	450
	CA50	8	12.5	2	235	470
	CA60	1	5.0	58	152	8816
	CA60	2	5.0	12	152	864
VL22	CA50	3	5.0	12	120	960
	CA50	4	6.3	8	71	568
	CA50	5	10.0	1	241	241
	CA50	6	10.0	2	501	1002
	CA50	7	10.0	8	116	928
	CA50	8	12.5	1	286	286
VL23	CA50	9	12.5	1	215	215
	CA50	10	12.5	1	275	275
	CA50	12	12.5	2	1114	2228
	CA50	13	12.5	2	259	518
	CA50	1	5.0	19	122	2318
	CA60	1	5.0	3	599	1018

Resumo do aço

AÇO	DIM	C.TOTAL (Kg)	PESO (Kg)
CA50	6.3	156.6	93.1
CA50	10.0	181.3	111.7
CA60	12.5	174.3	167.8
CA60	5.0	475.6	73.3
CA50	318.6		
CA60	73.3		

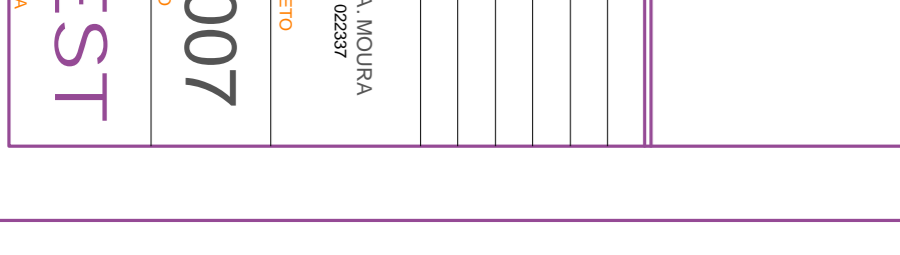
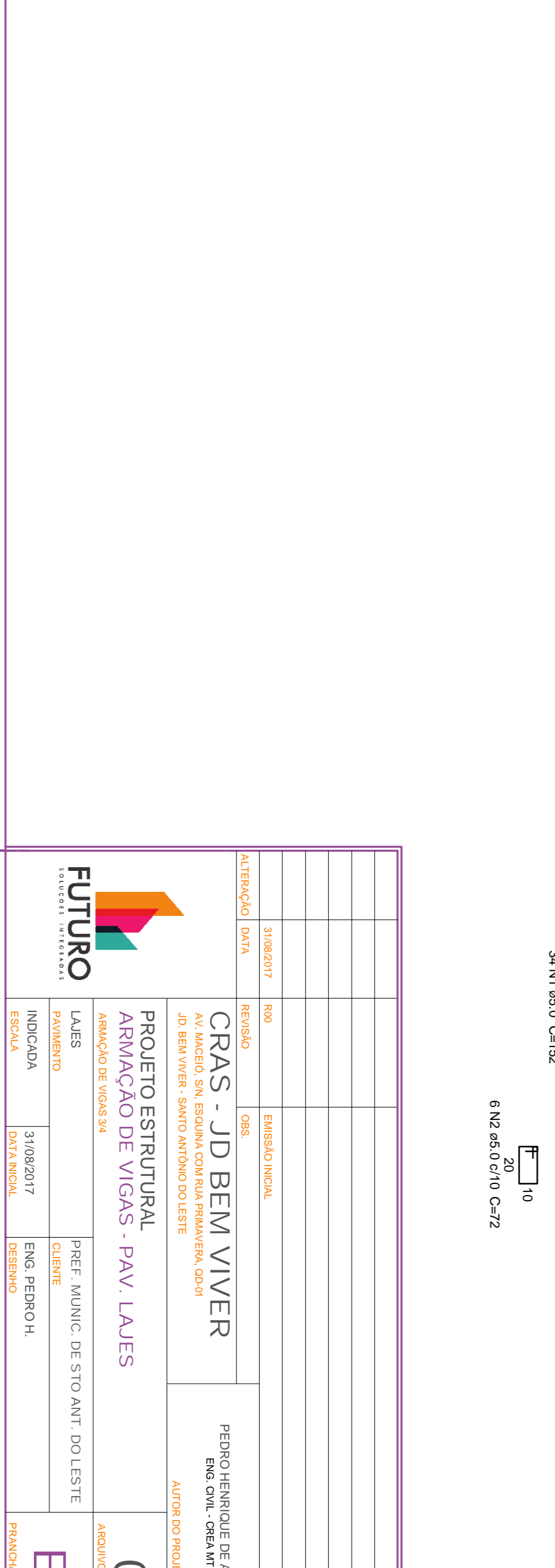
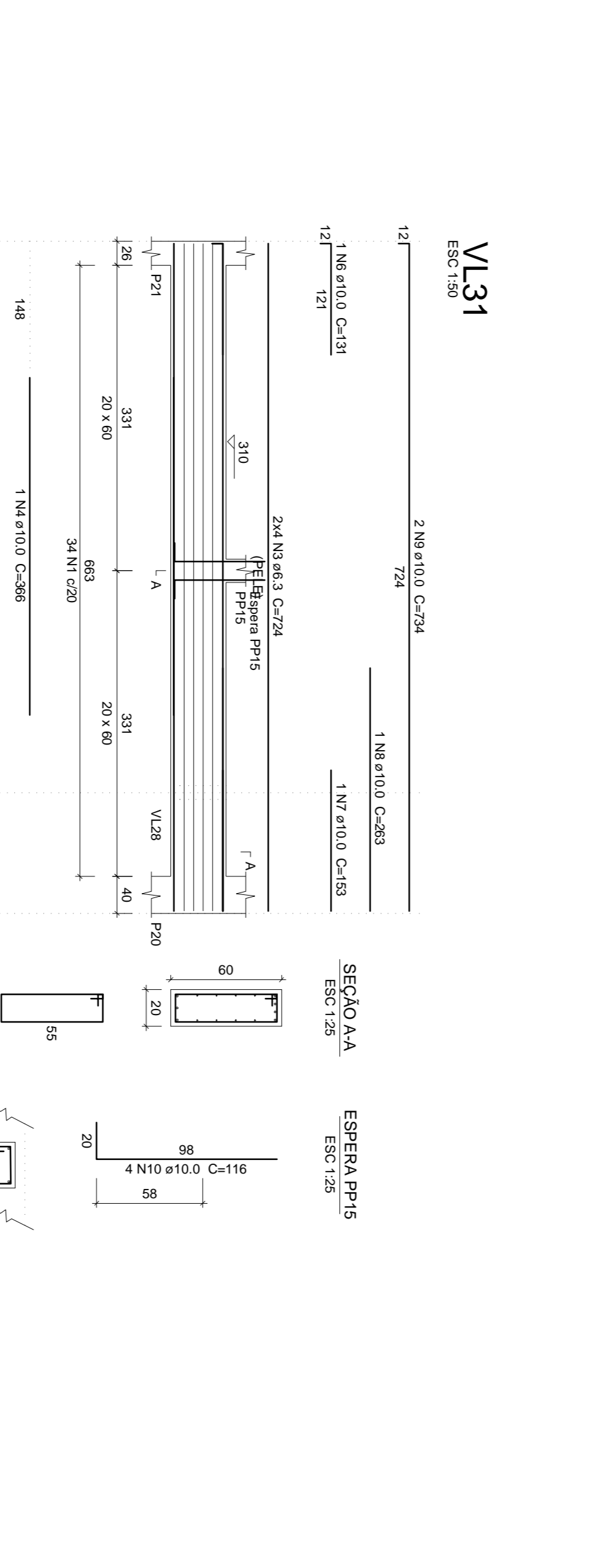
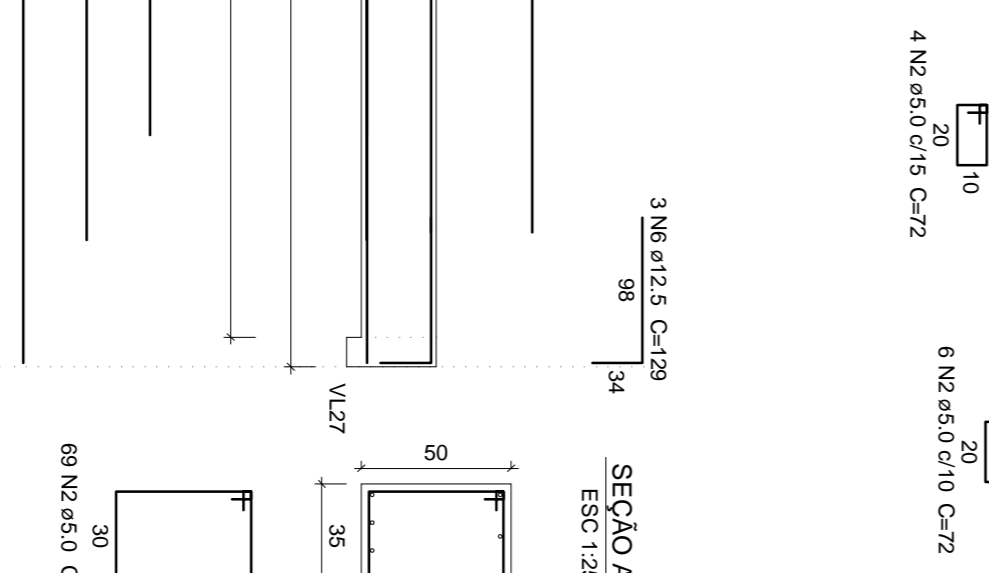
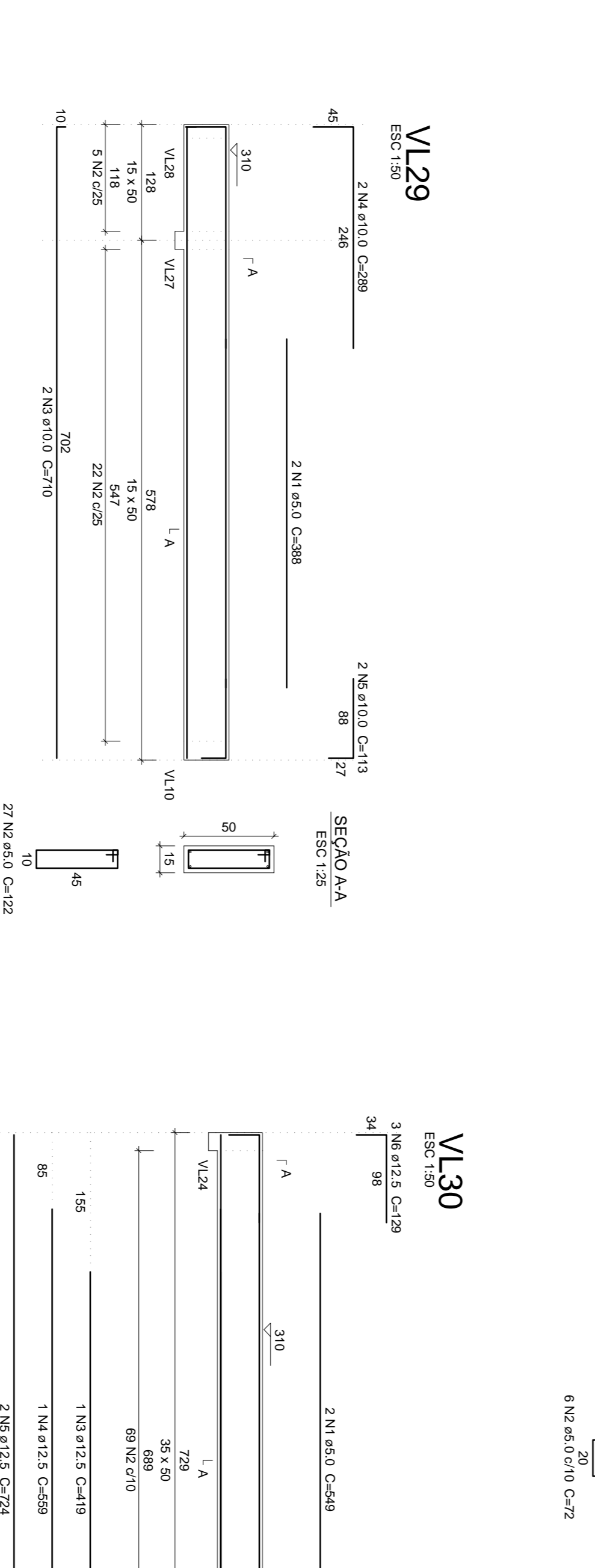
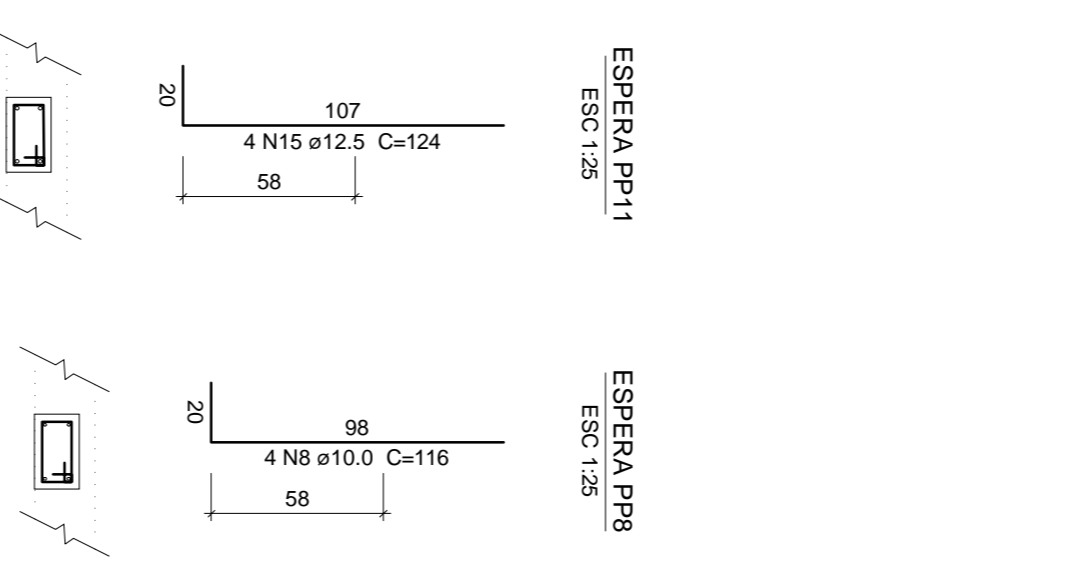
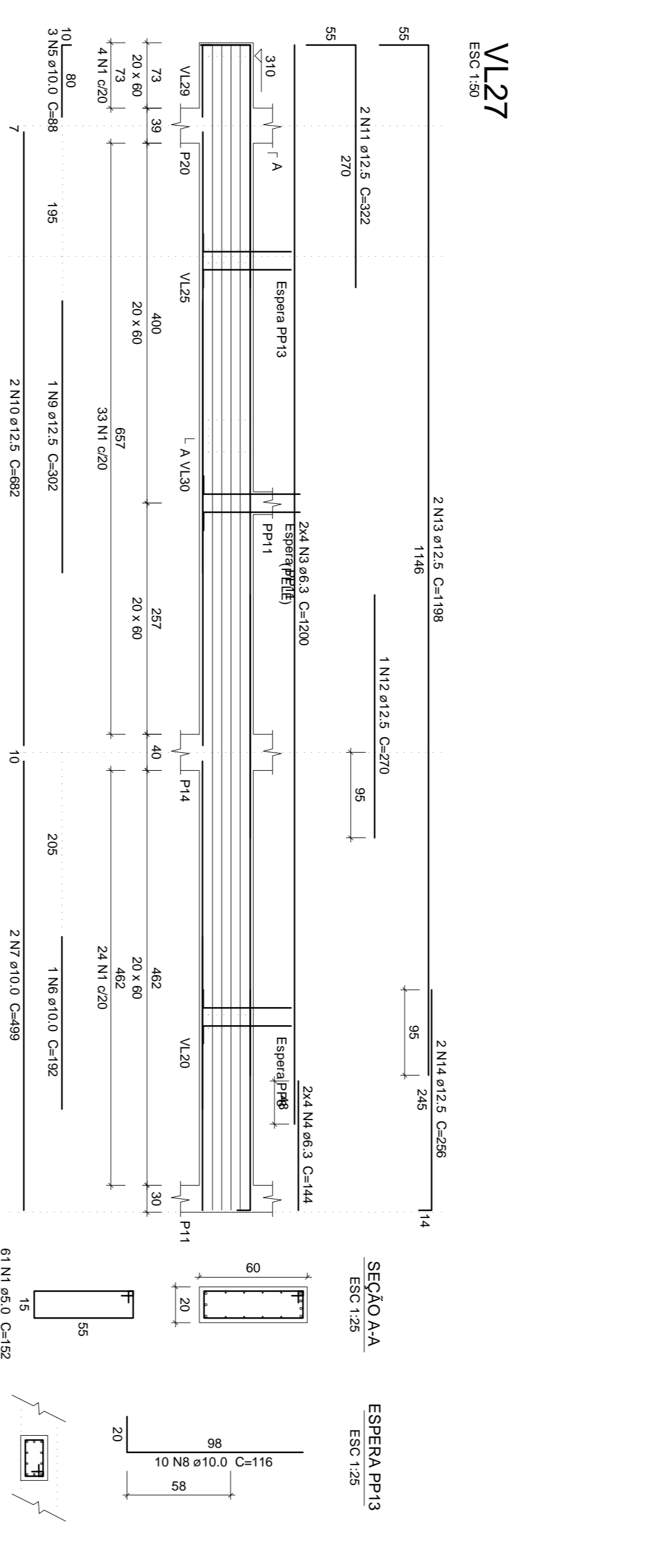
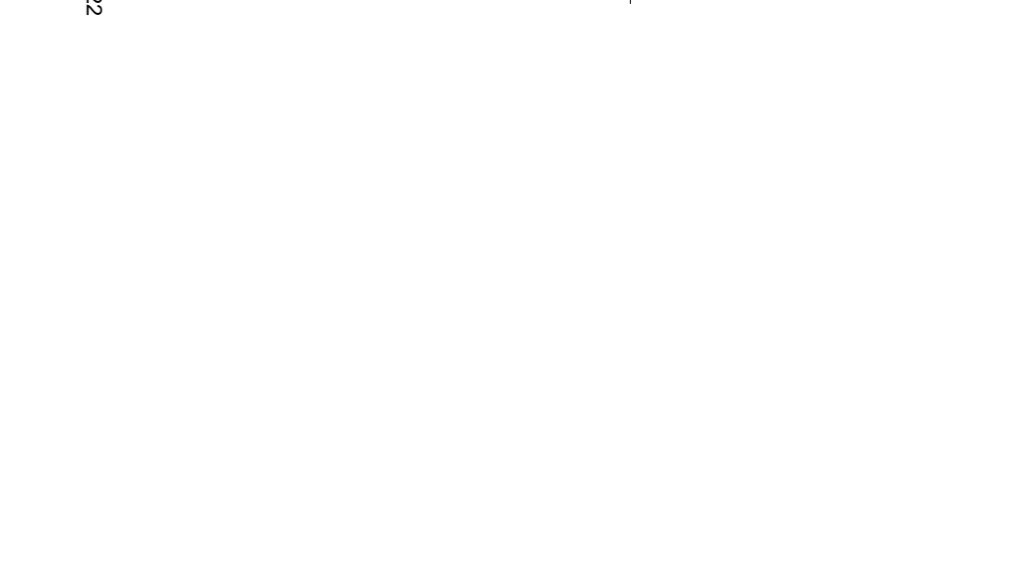
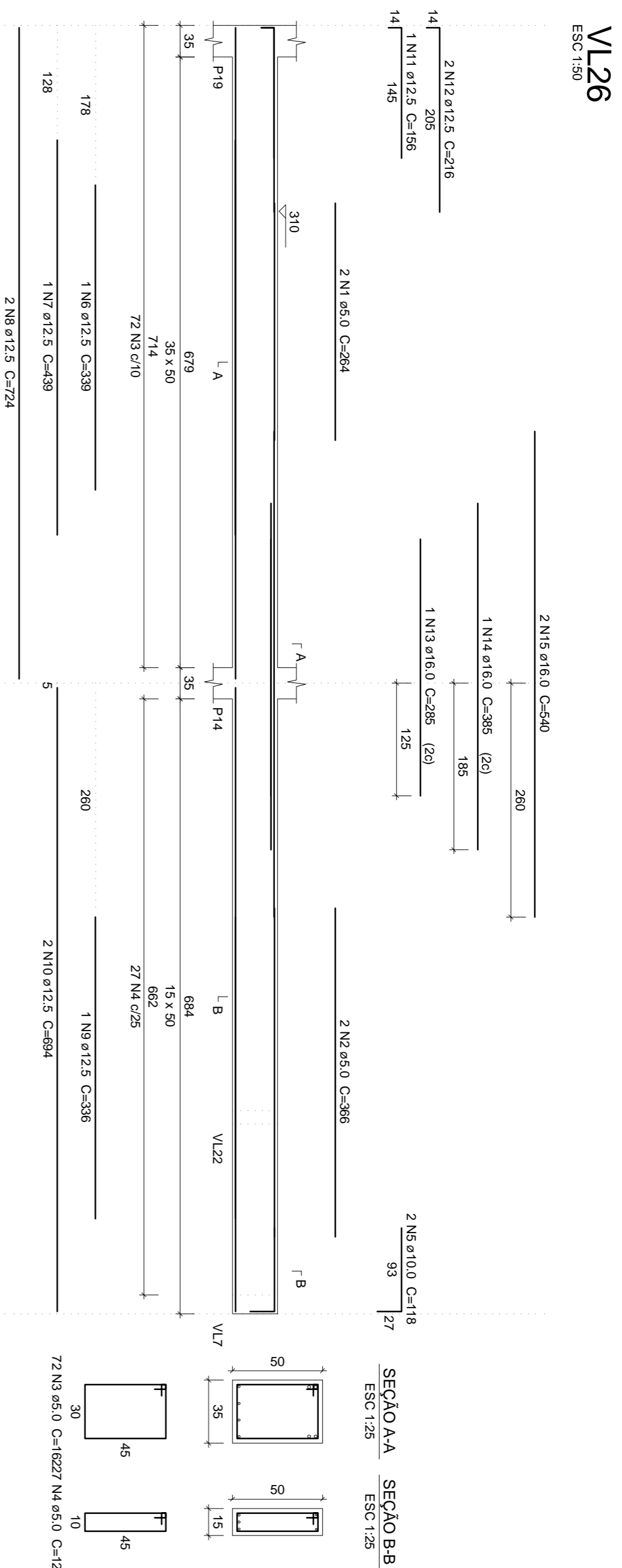
Vol. de concreto total (C-29) = 6.98 m³
 Área de forma total = 84.33 m²

<p>CRAS - JD BEM VIVER PROJETO E EXECUÇÃO DE OBRAS DE INFRA-ESTRUTURA AV. BRASILEIRA, 3000 - JARDIM AMORIM - SÃO PAULO - SP - 01411-000 FONE: (11) 5075-0500</p>		<p>FEDERHENRIQUE DE A. MOURA ENG. CIVIL, CREA/SP 02337 AUTORIZADO PROJETAR</p>	
<p>PROJETO ESTRUTURAL ARMAÇÃO DE VIGAS - PAV. LAJES</p>		<p>006 ARCO</p>	
ALTERNATIVO	DATA	ELABORADO POR	
NO		EMISSÃO INICIAL	
CLIENTE	PROF. MUNIC. DE S/TO ANT. DO LESTE	INDICAÇÃO	31/06/2017
REVISÃO	ENSC. RENOVH.	RESENHO	03/04/2004

Relatório do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT	C'TOTAL		
VL26	C460	1	5.0	2	162	601.528		
	C460	2	5.0	2	365	732		
	C460	3	5.0	72	162	11664		
	C460	4	5.0	27	122	3294		
	C460	5	10.0	2	118	236		
	C460	7	12.5	1	439	439		
	C460	8	12.5	2	724	1448		
	C460	9	12.5	1	396	396		
	C460	10	12.5	2	694	1388		
	C460	11	12.5	1	198	198		
	C460	13	12.5	2	216	432		
	VL27	C460	13	12.5	2	216	432	
C460		14	16.0	1	385	385		
C460		15	16.0	2	540	1080		
C460		15	5.0	61	152	9272		
C460		2	5.0	16	72	1152		
C460		3	6.3	8	120	960		
C460		5	10.0	3	88	264		
C460		5	10.0	1	182	182		
C460		7	10.0	2	499	998		
C460		8	10.0	14	116	1624		
C460		8	10.0	2	499	998		
VL28		C460	10	12.5	1	302	302	
	C460	10	12.5	2	604	1208		
	C460	11	12.5	2	322	644		
	C460	13	12.5	2	270	540		
	C460	13	12.5	2	1198	2396		
	C460	14	12.5	2	295	590		
	C460	15	12.5	4	124	496		
	C460	15	10.0	2	155	310		
	C460	2	10.0	2	388	776		
	C460	2	5.0	27	122	3294		
	C460	3	10.0	2	710	1420		
	VL29	C460	3	10.0	2	710	1420	
C460		5	10.0	2	113	226		
C460		5	5.0	2	549	1098		
C460		2	5.0	69	162	11178		
C460		3	12.5	1	419	419		
C460		4	12.5	1	559	559		
C460		6	12.5	6	124	744		
C460		6	12.5	6	152	912		
C460		1	5.0	34	152	5168		
C460		2	5.0	6	74	432		
C460		4	10.0	1	396	396		
VL30		C460	5	10.0	2	214	428	
	C460	5	10.0	1	131	131		
	C460	7	10.0	1	153	153		
	C460	8	10.0	1	283	283		
	C460	9	10.0	2	734	1468		
	C460	10	10.0	4	116	464		
	VL31	C460	1	5.0	2	165.5	331	
		C460	2	5.0	6	992.5	1985	
		C460	3	10.0	2	137.3	274.6	
		C460	16.0	17.5	27.6	75.6	75.6	
		RESUMO DO AÇO						
		AÇO	DIAM	C/TOTAL	PESO			
C460		6.3	165.5	331				
C460		12.5	137.3	274.6				
C460		16.0	17.5	27.6				
C460		5.0	489.8	75.6				
C460		284						
C460		75.6						

Vál. de concreto total (C=25) = 6.12 m³
 Área de formas total = 65.39 m²



FUTURO
 CONSULTORIA ENGENHARIA

REVISÃO: **EMILIANO NICOLAI**
 DATA: **31/08/2017**

OBJETO: **CRAS - JD BEM VIVER**

CLIENTE: **PRFE. MUNIC. DE STO ANT. DO LESTE**

PROJETO ESTRUTURAL: **ARMADAÇÃO DE VIGAS - PAV. LAJES**

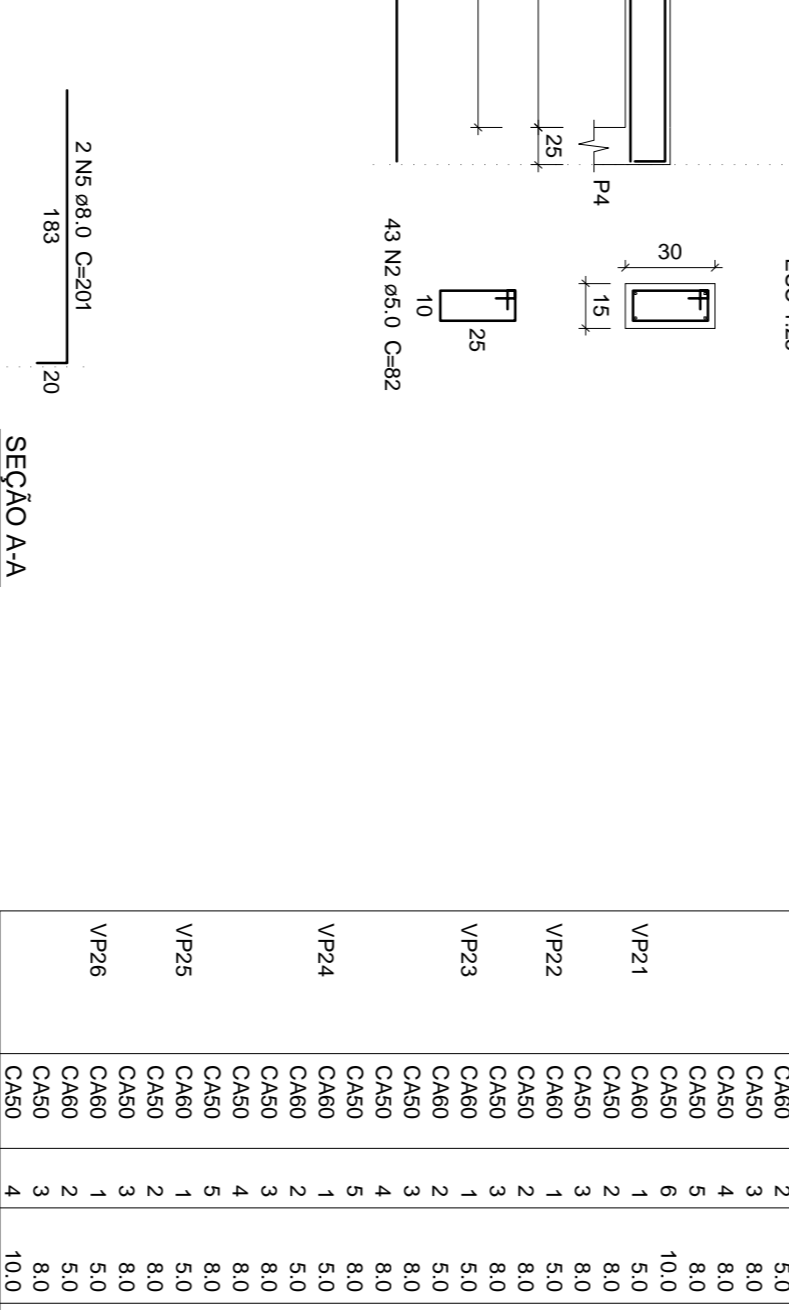
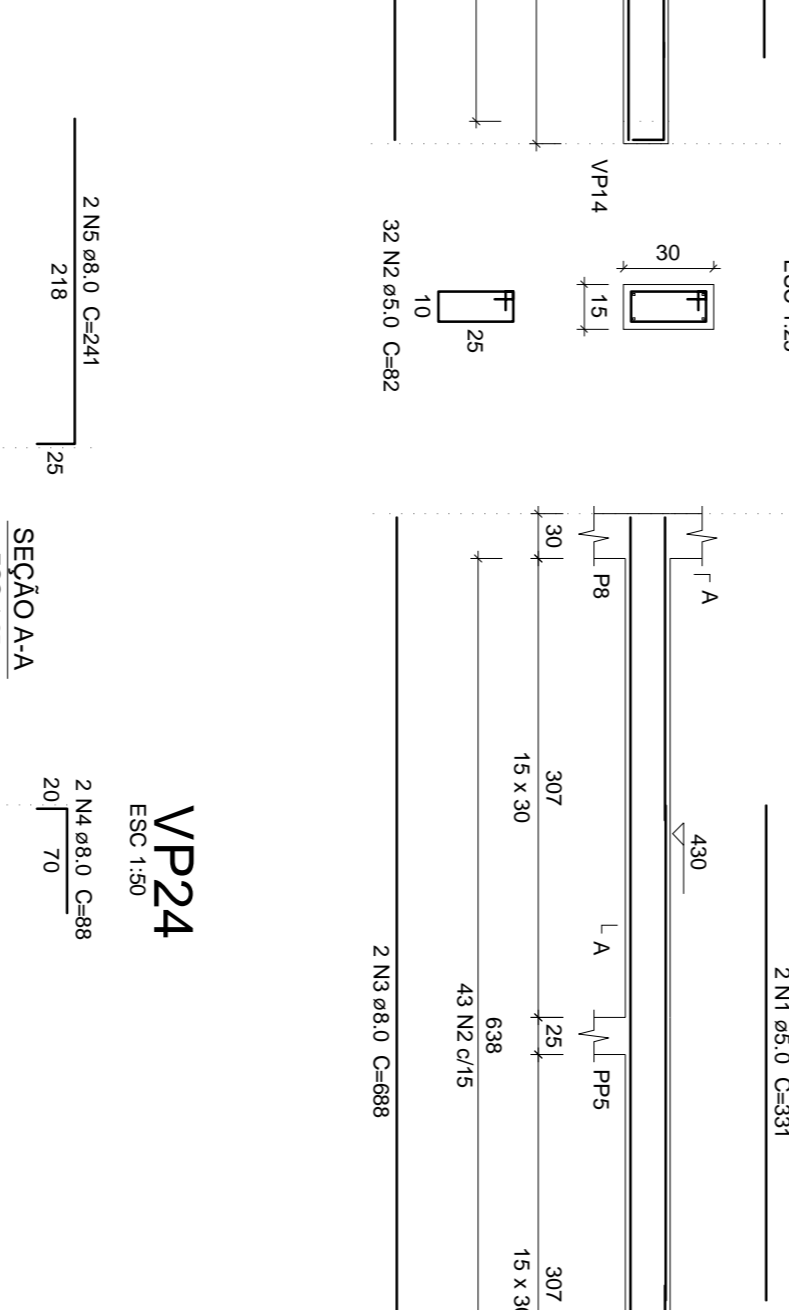
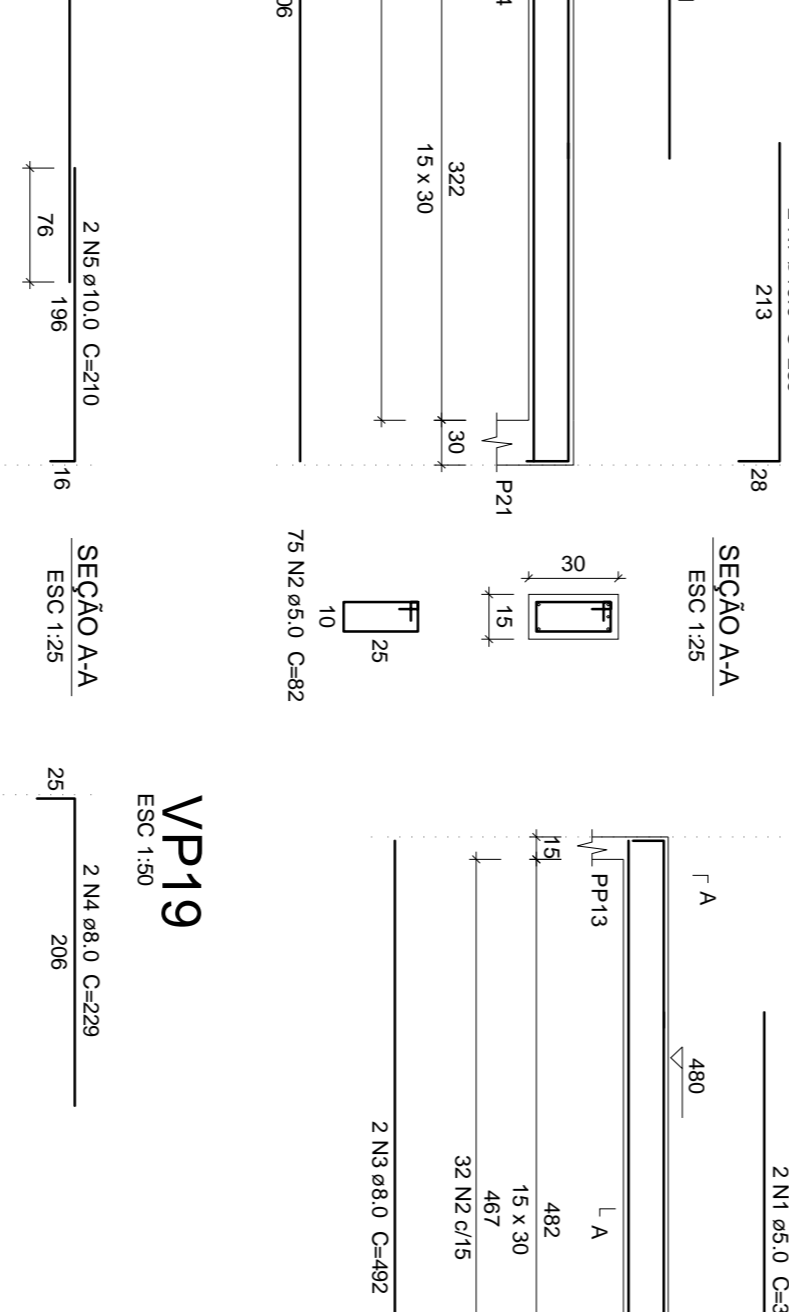
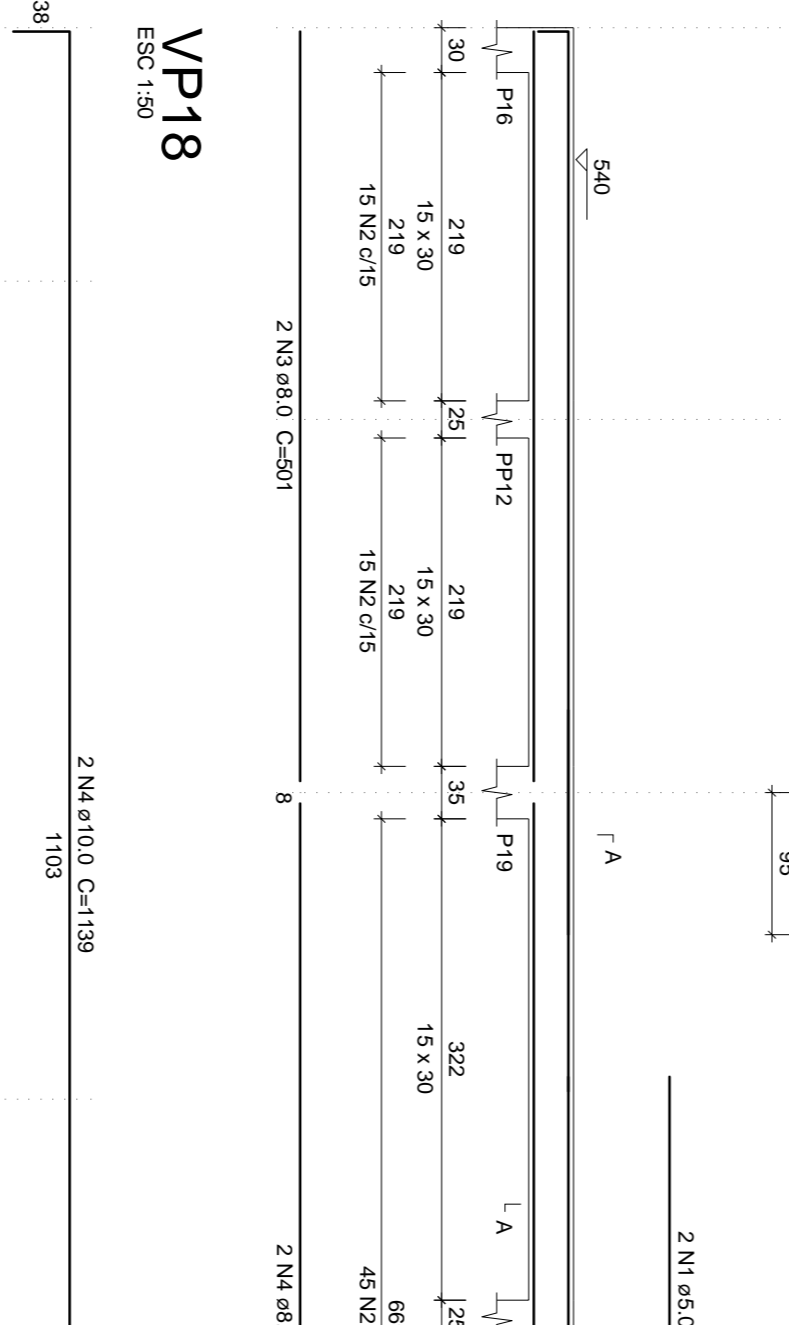
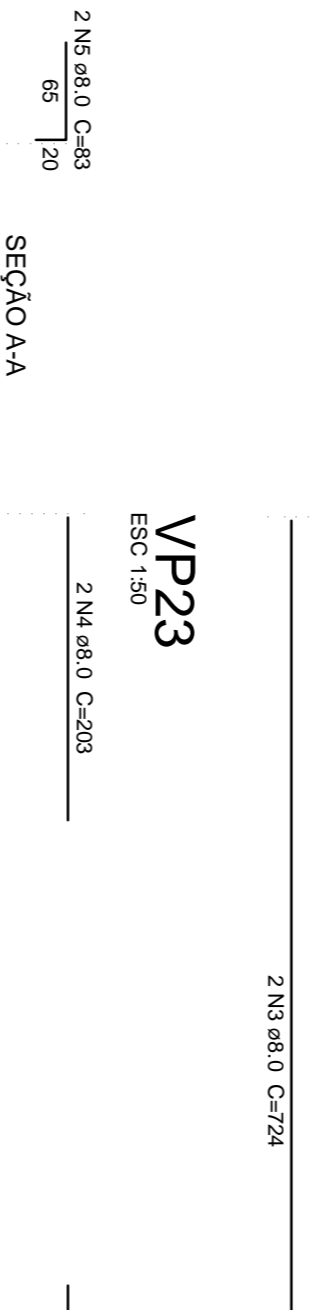
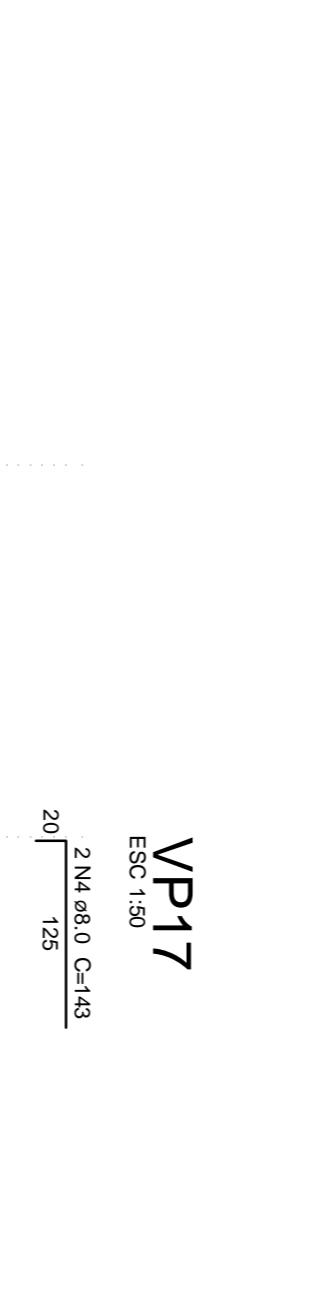
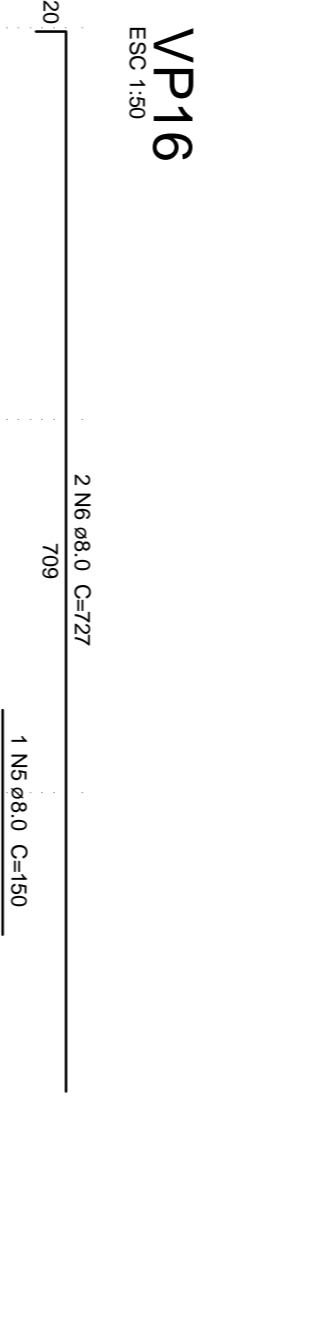
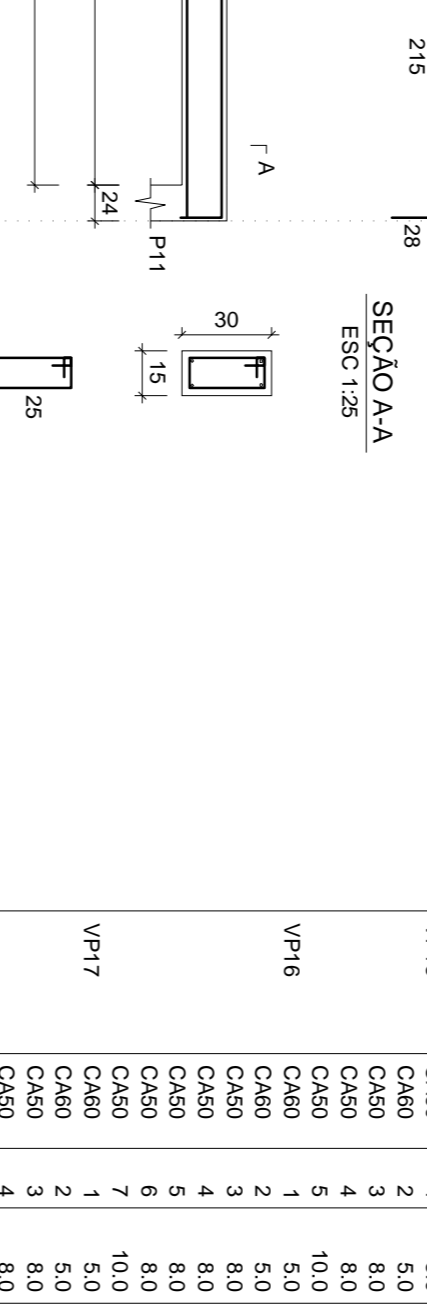
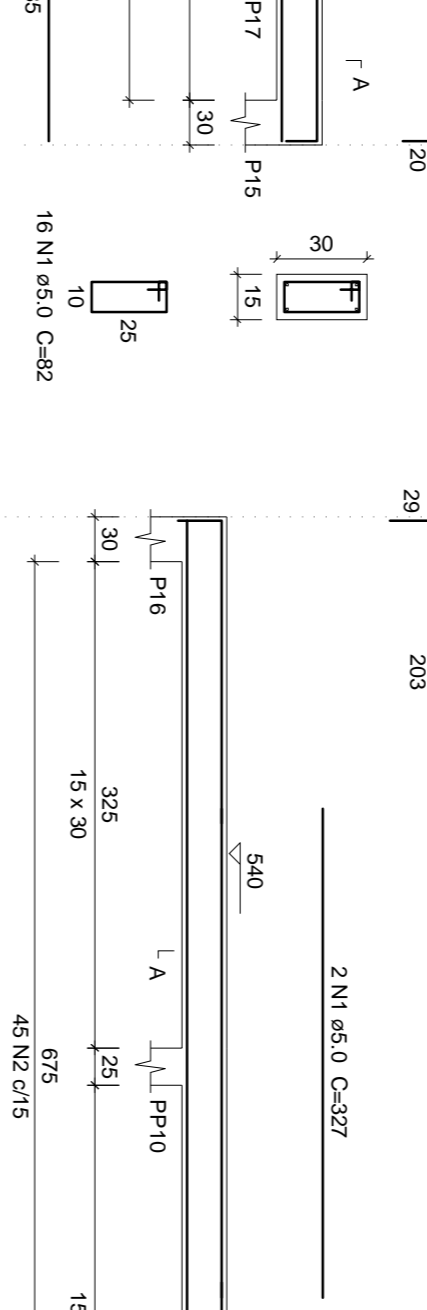
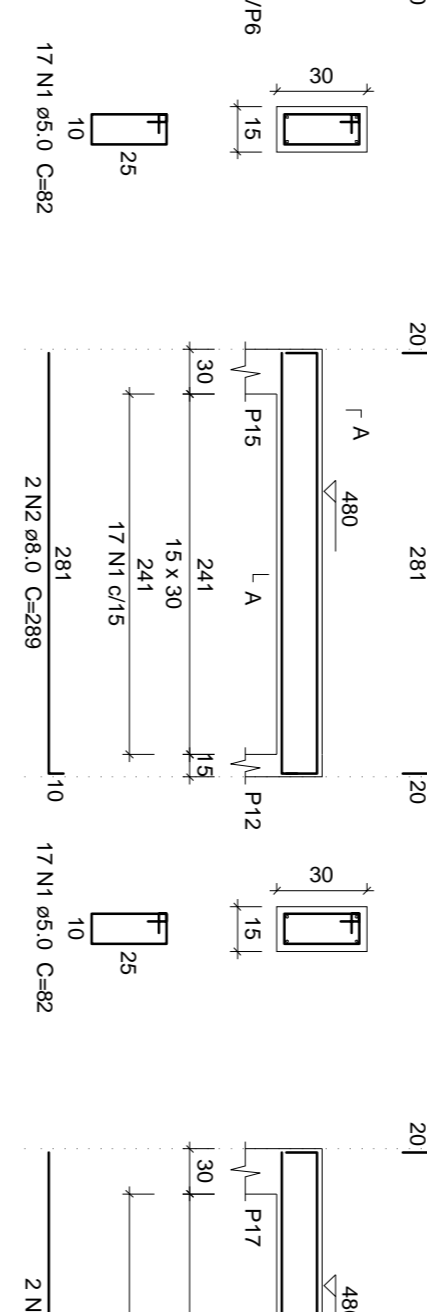
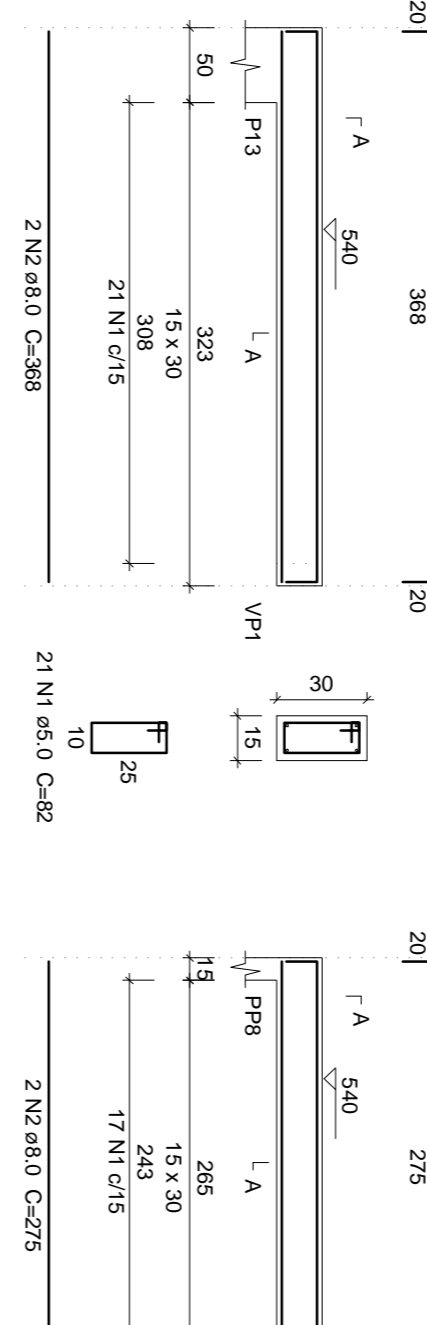
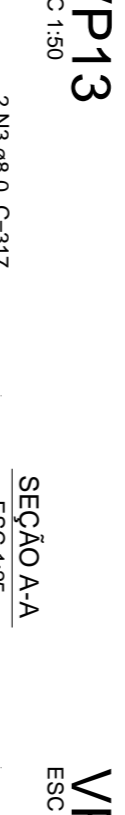
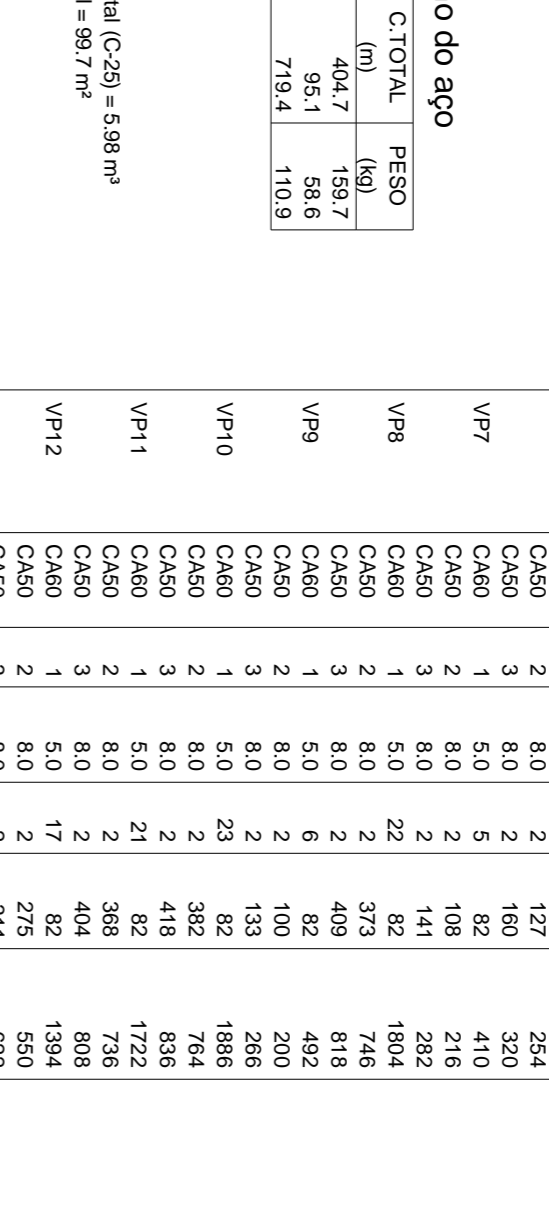
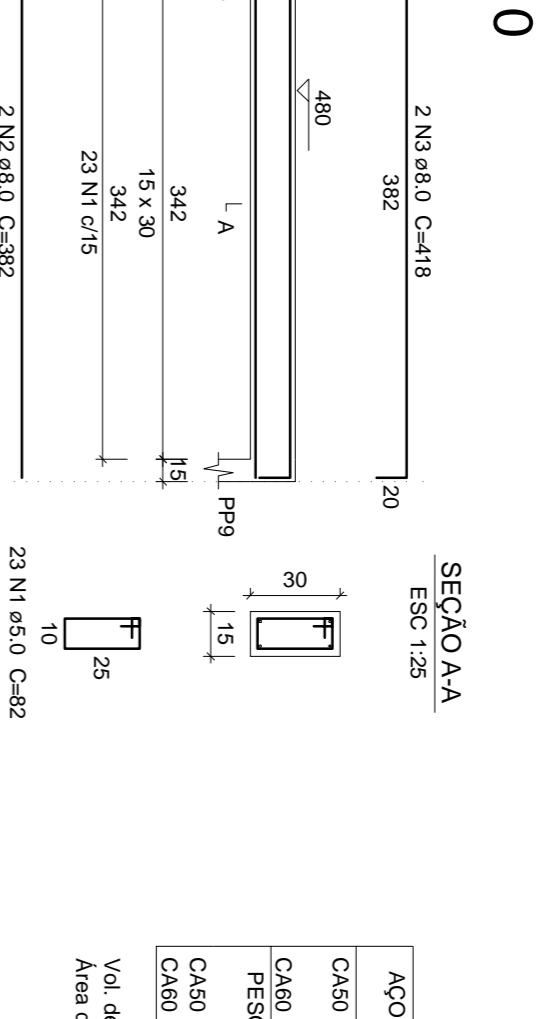
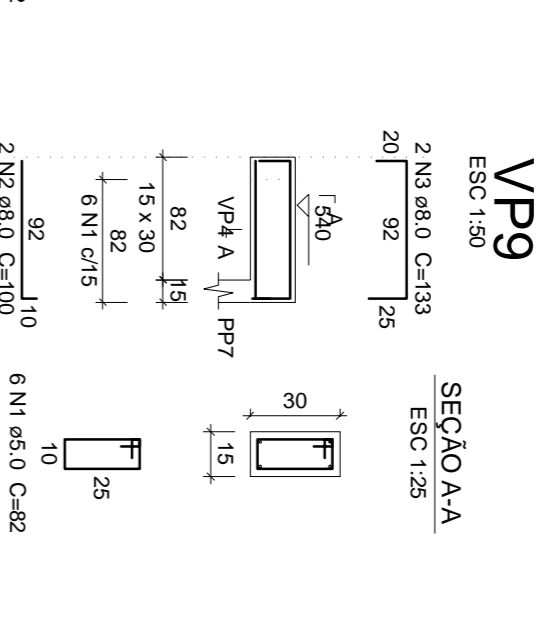
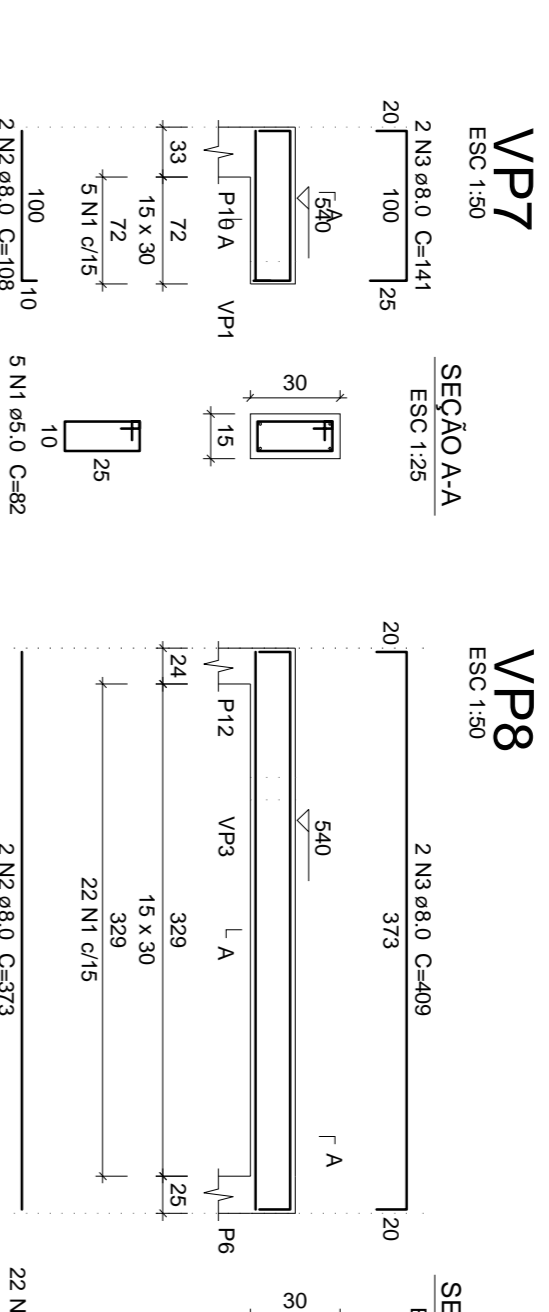
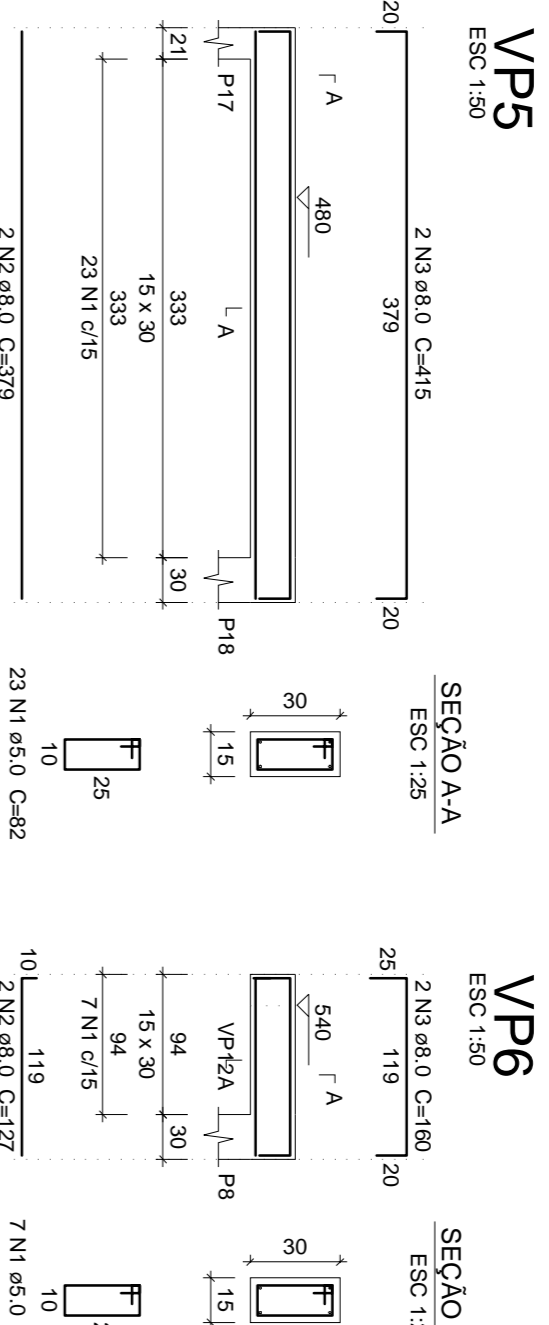
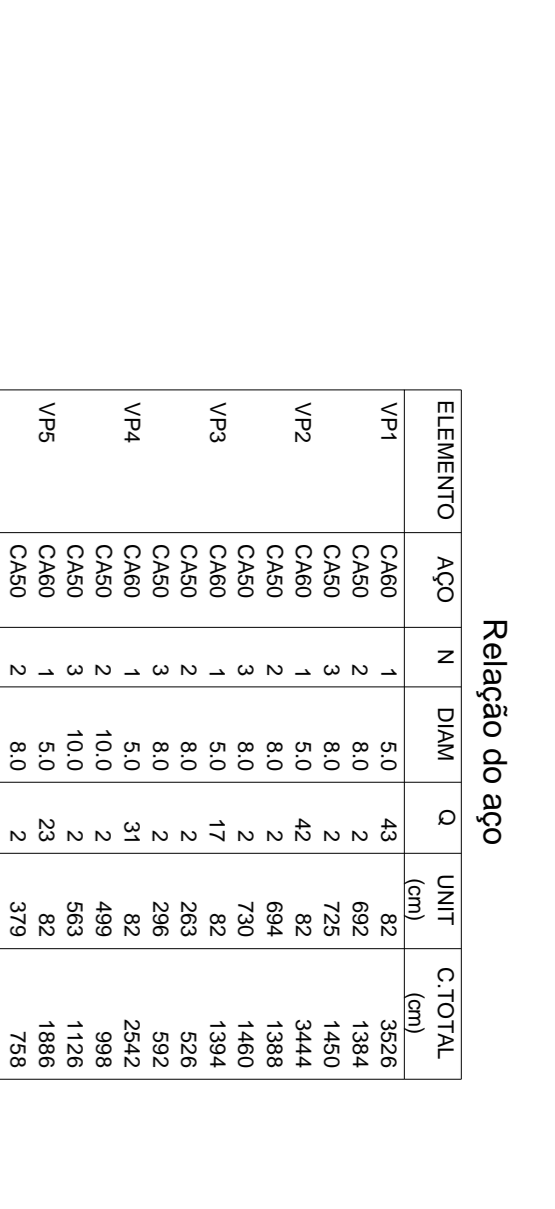
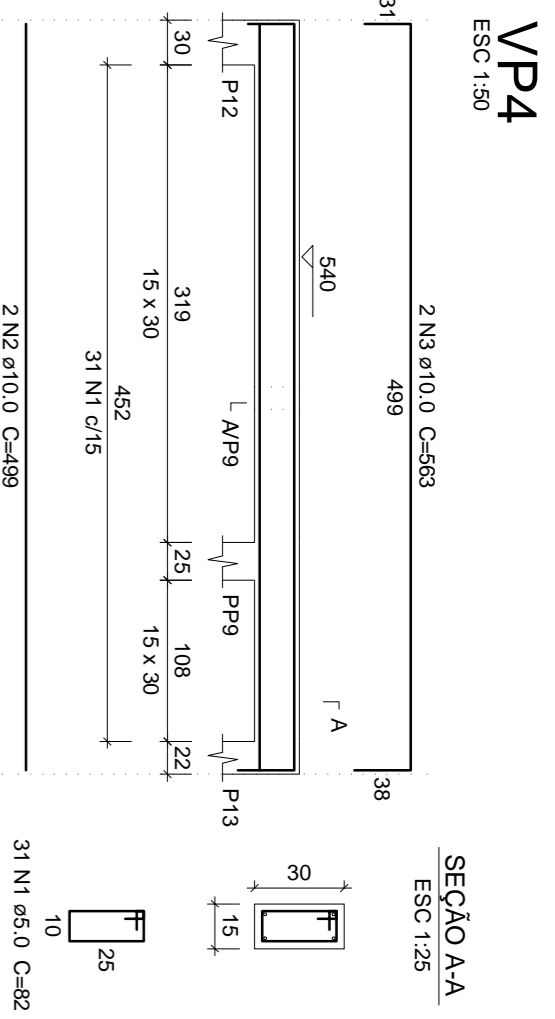
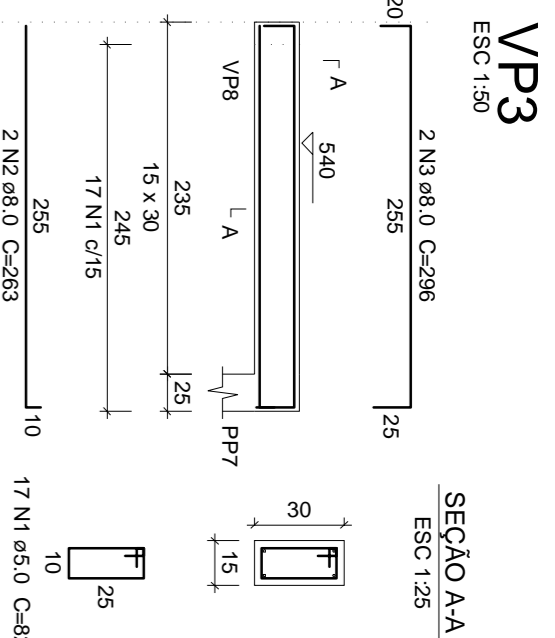
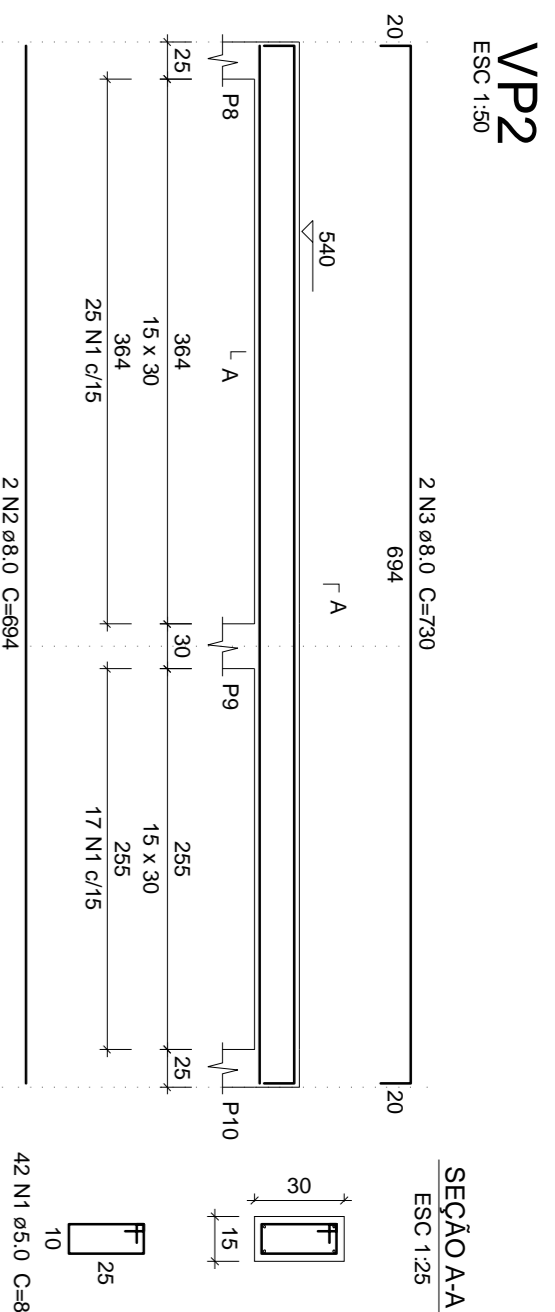
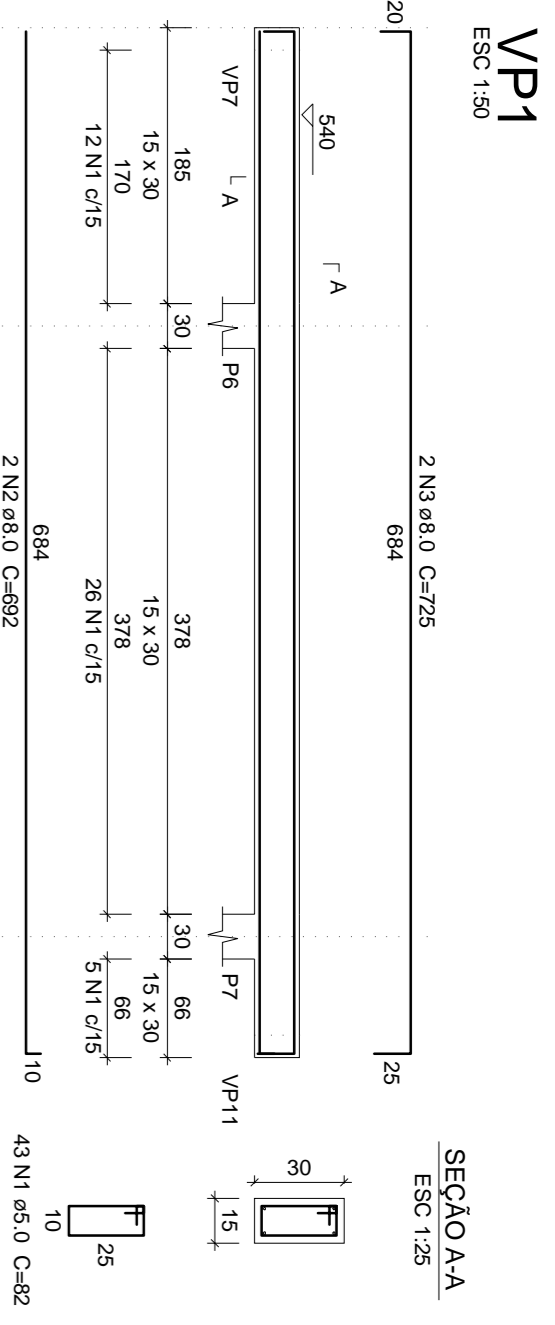
PROJETO: **007**

ELABORADO POR: **FEDERICO HENRIQUE DE A. MOURA**
 ENGENHEIRO CIVIL CREA/MG 023377

INDICAÇÃO: **ENG. RENOVATI**

REVISÃO: **ENGENHEIRO**

LOCAL: **PRANHA**



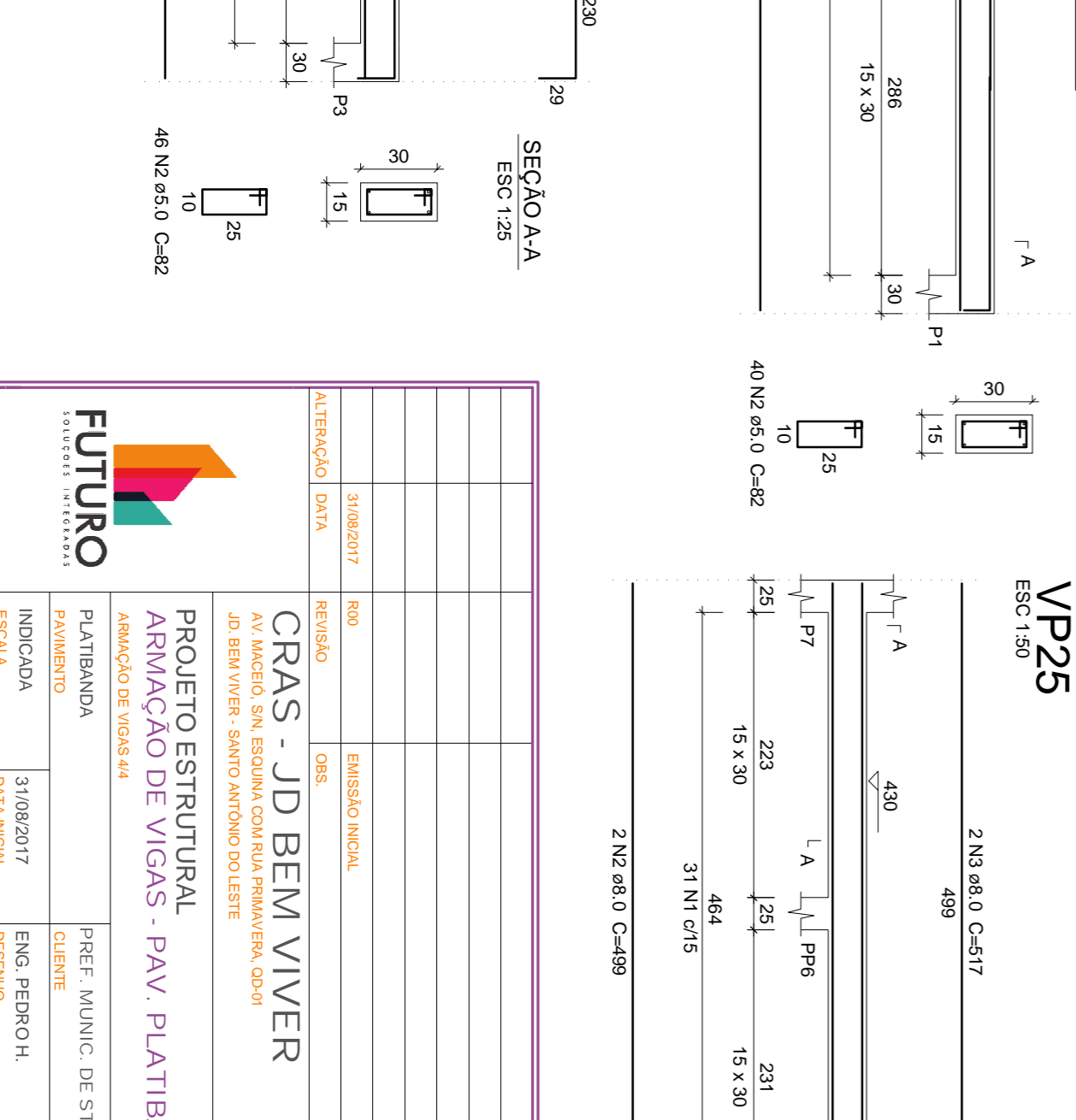
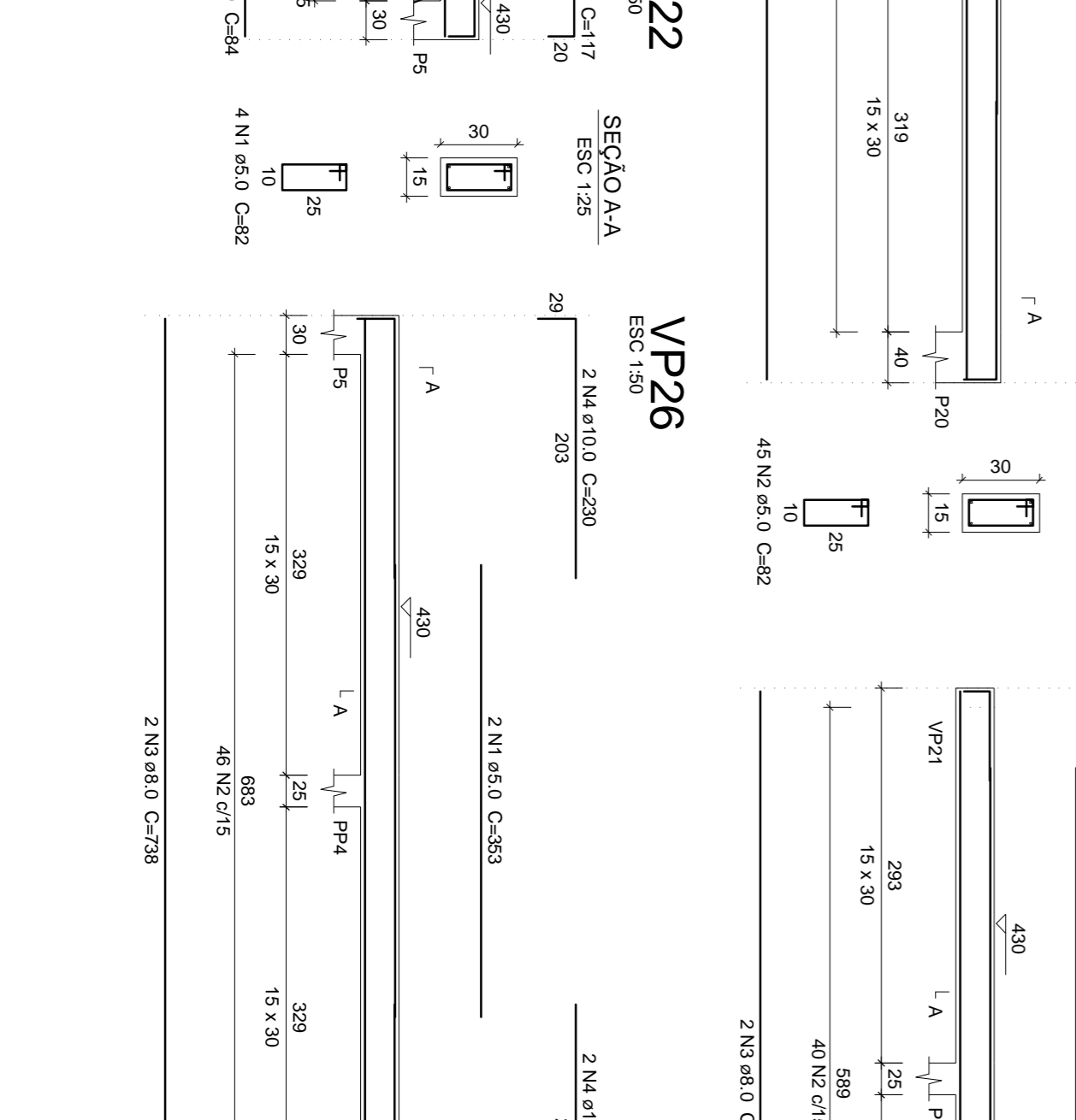
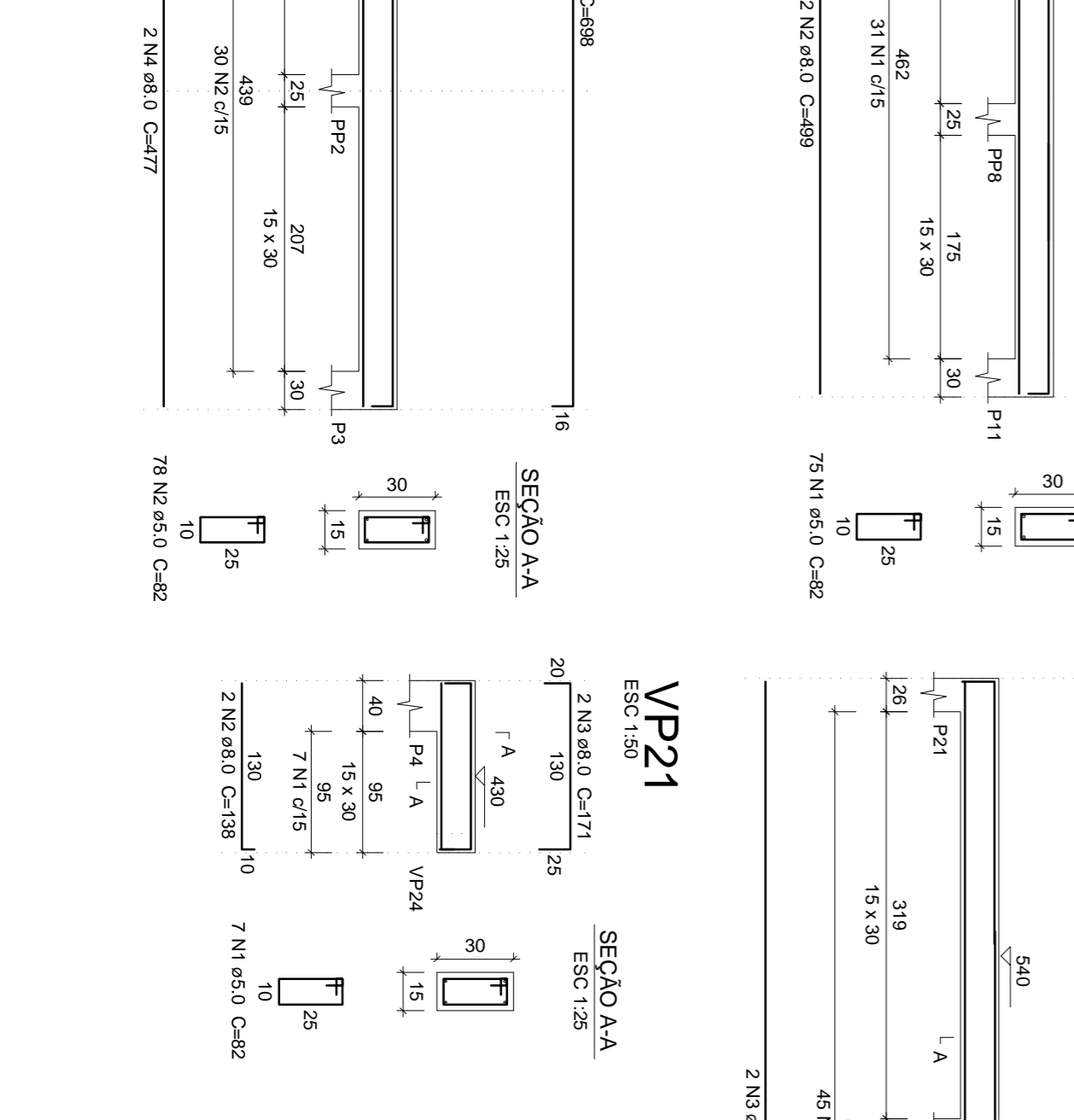
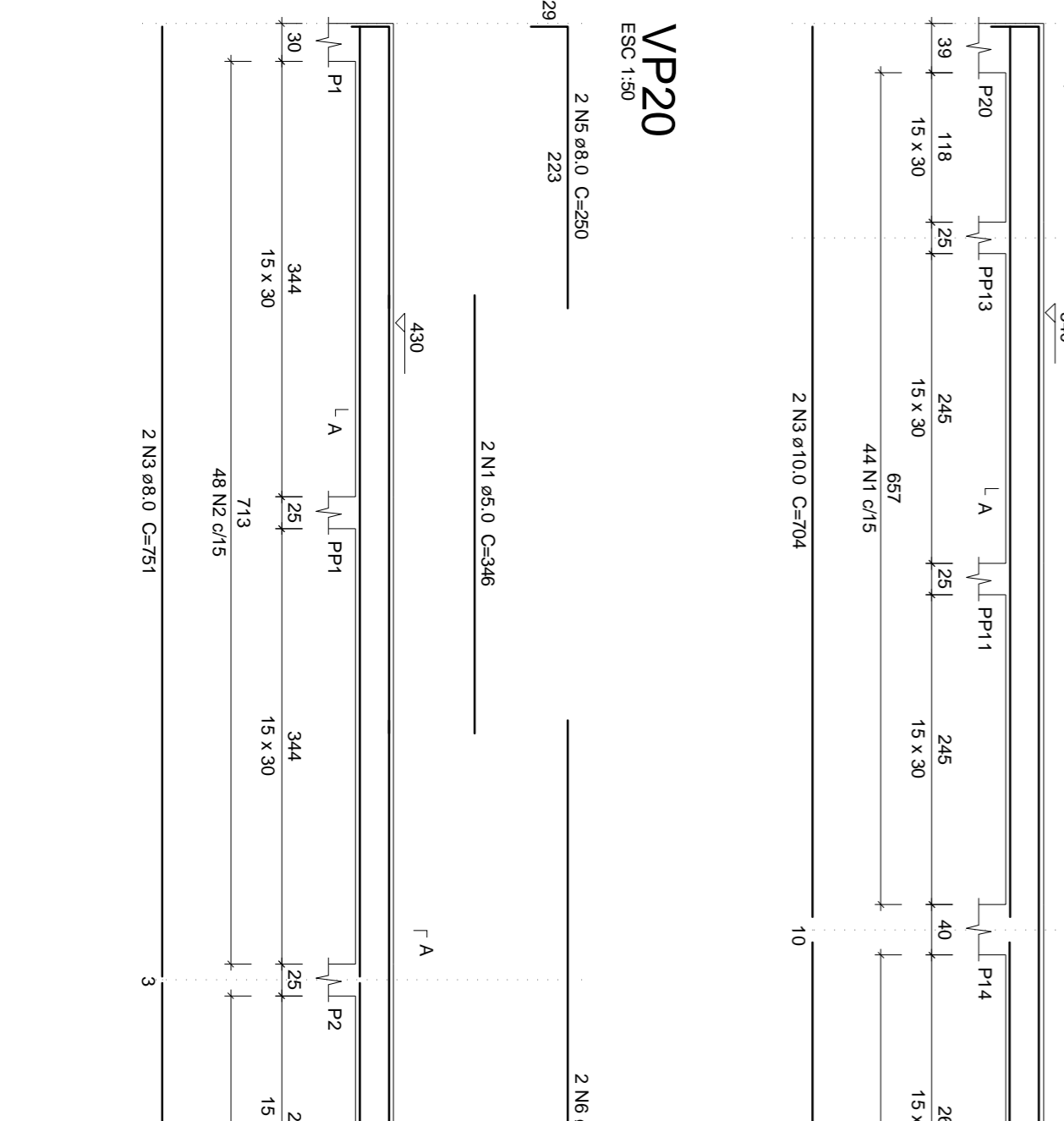
Resumo do aço

AÇO	DIAM	C/TOTAL (m)	PESO (kg)
CA50	8,0	144,7	1.027,2
CA50	10,0	95,1	1.347,8
CA50	5,0	719,4	2.150,9
PESO TOTAL			4.526,9
CA50	218,3		
CA50	110,9		

Vol. de concreto total (C=25) = 5,98 m³
Área da forma total = 99,7 m²

Relação do aço

ELEMENTO	AÇO	N	DIAM	Q	UMT	C.TOTAL (kg)
VP1	CA50	1	5,0	43	82	358
VP1	CA50	2	8,0	2	692	1.384
VP2	CA50	3	8,0	2	725	1.450
VP2	CA50	1	5,0	42	82	344,4
VP2	CA50	2	8,0	2	694	1.388
VP2	CA50	3	8,0	2	726	1.452
VP3	CA50	1	5,0	17	82	1.394
VP3	CA50	2	8,0	2	263	526
VP3	CA50	3	8,0	2	259	518
VP4	CA50	1	5,0	31	82	254,2
VP4	CA50	2	10,0	2	499	998
VP4	CA50	3	10,0	2	503	1.006
VP5	CA50	1	5,0	23	379	758
VP5	CA50	2	8,0	2	379	758
VP6	CA50	3	8,0	2	415	830
VP6	CA50	1	5,0	7	82	57,4
VP7	CA50	3	8,0	2	127	254
VP7	CA50	2	8,0	2	180	360
VP7	CA50	1	5,0	5	200	400
VP7	CA50	2	8,0	2	148	296
VP8	CA50	3	8,0	2	101	202
VP8	CA50	1	5,0	22	82	180,4
VP8	CA50	2	8,0	2	373	746
VP9	CA50	3	8,0	2	469	938
VP9	CA50	2	8,0	2	404	808
VP9	CA50	1	5,0	200	400	
VP10	CA50	3	8,0	2	133	266
VP10	CA50	2	8,0	2	82	164
VP10	CA50	1	5,0	23	82	164
VP11	CA50	3	8,0	2	418	836
VP11	CA50	2	8,0	2	388	776
VP11	CA50	1	5,0	2	404	808
VP12	CA50	3	8,0	2	404	808
VP12	CA50	1	5,0	17	82	194,4
VP13	CA50	3	8,0	2	311	622
VP13	CA50	2	8,0	2	289	578
VP13	CA50	1	5,0	2	317	634
VP14	CA50	3	8,0	2	317	634
VP14	CA50	2	8,0	2	289	578
VP14	CA50	1	5,0	16	82	164
VP15	CA50	3	8,0	2	256	512
VP15	CA50	2	8,0	2	321	642
VP15	CA50	1	5,0	2	223	446
VP16	CA50	4	8,0	2	724	1.448
VP16	CA50	3	8,0	2	241	482
VP16	CA50	2	8,0	2	241	482
VP16	CA50	1	5,0	7	751	1.502
VP17	CA50	3	8,0	2	228	456
VP17	CA50	2	8,0	2	254	508
VP17	CA50	1	5,0	2	282	564
VP18	CA50	3	8,0	2	492	984
VP18	CA50	4	8,0	2	43	86
VP18	CA50	5	8,0	2	113	226
VP18	CA50	2	8,0	2	75	150
VP18	CA50	1	5,0	2	227,8	455,6
VP19	CA50	4	10,0	2	210	420
VP19	CA50	1	5,0	2	321	642
VP20	CA50	5	8,0	2	346	692
VP20	CA50	2	8,0	2	82	164
VP21	CA50	4	8,0	2	477	954
VP21	CA50	3	8,0	2	331	662
VP21	CA50	2	8,0	2	254	508
VP21	CA50	1	5,0	7	698	1.396
VP22	CA50	4	8,0	2	517	1.034
VP22	CA50	3	8,0	2	331	662
VP22	CA50	2	8,0	2	254	508
VP22	CA50	1	5,0	43	82	1.376
VP23	CA50	3	8,0	2	203	406
VP23	CA50	4	8,0	2	203	406
VP23	CA50	5	8,0	2	358	716
VP23	CA50	2	8,0	2	82	164
VP24	CA50	2	8,0	2	629	1.258
VP24	CA50	3	8,0	2	629	1.258
VP24	CA50	4	8,0	2	88	176
VP24	CA50	1	5,0	2	201	402
VP25	CA50	5	8,0	2	452	904
VP25	CA50	3	8,0	2	517	1.034
VP25	CA50	1	5,0	2	353	706
VP26	CA50	2	8,0	2	377,2	754,4
VP26	CA50	3	8,0	2	377,2	754,4
VP26	CA50	4	8,0	2	734,4	1.468,8



FUTURO
SISTEMA DE LAJE ALVEOLAR

PROJETO ESTRUTURAL
ARMADURA DE VIGAS - PAV. PLATIBANDA

008

EST

CLIENTE: PREF. MUNIC. DE STO ANT. DO LESTE

PROJETO: PROJETO DE ARMAÇÃO DE VIGAS - PAV. PLATIBANDA

PROJETADE: ENG. CIVIL CHEMANT DEZZAZI

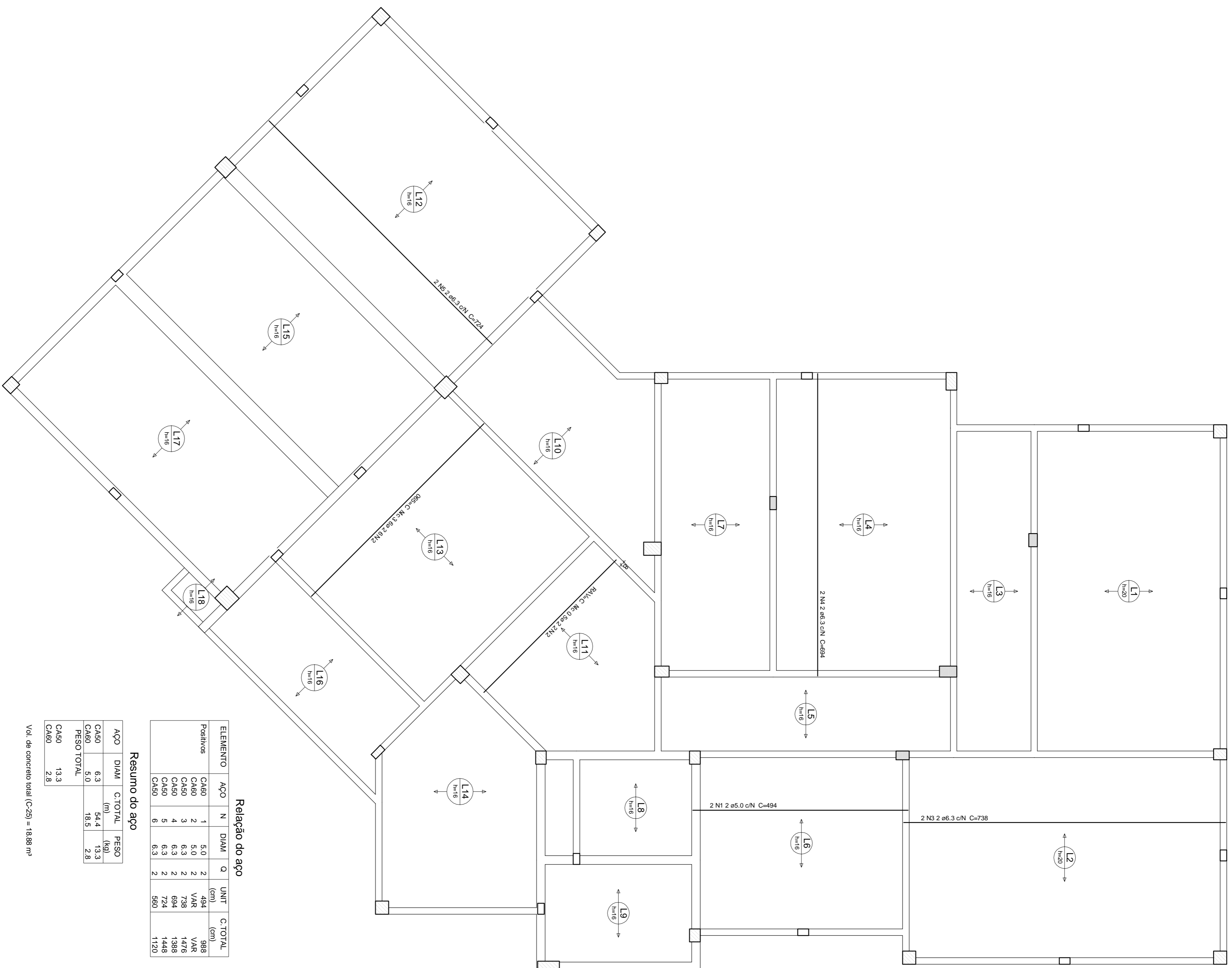
PROVERSOR: ANTONIO DO ROSARIO

INDICAÇÃO: 31/10/2017

REVISÃO: ENG. REINHOLD

REVISÃO: ENG. REINHOLD

REVISÃO: ENGENHARIA



Relação do aço

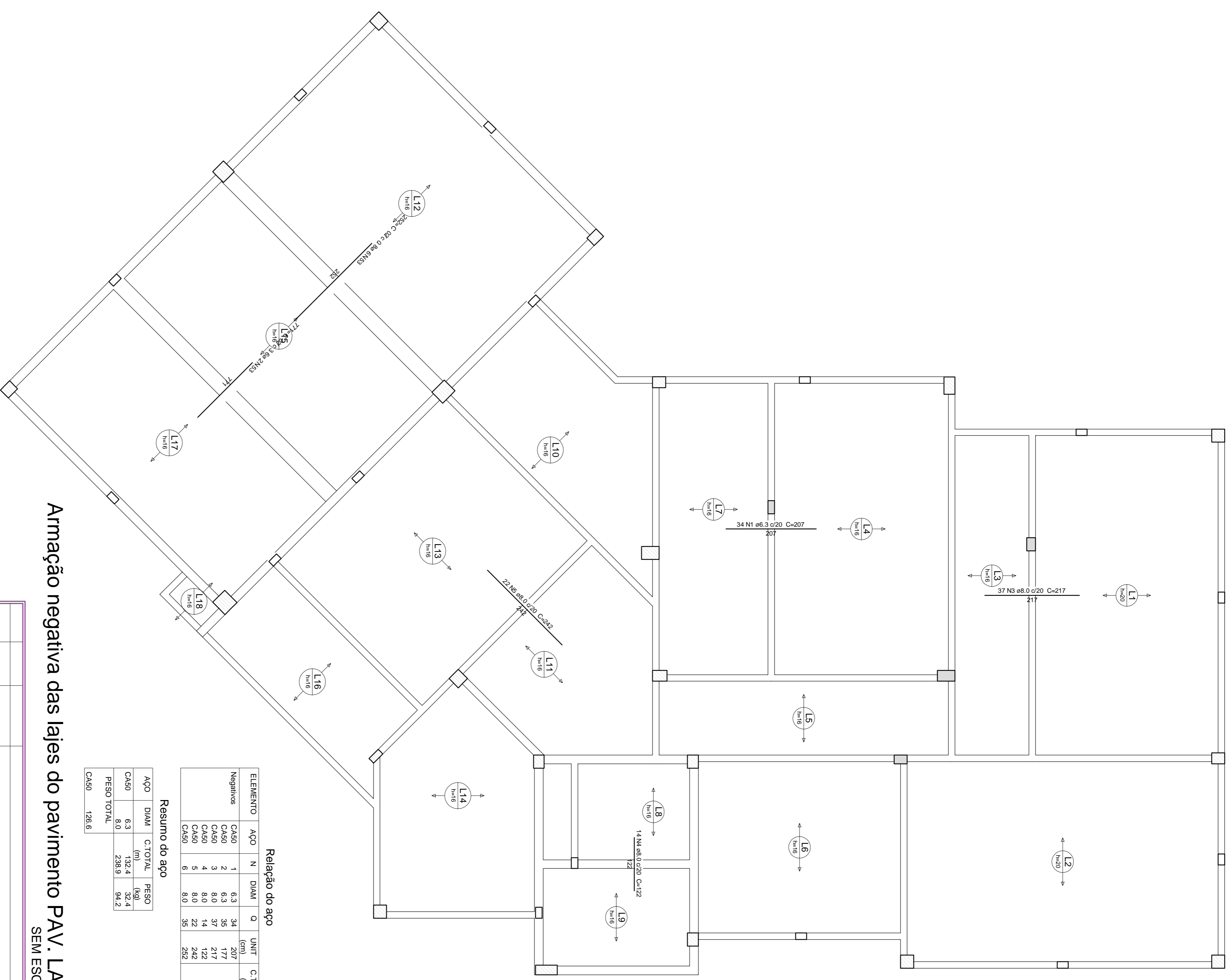
Positivos	CA50	N	DIM1	Q	UNIT	C.TOTAL
CA50	1	5.0	2	10	cm	988
CA50	2	5.0	2	VAR	VAR	1476
CA50	3	6.3	2	738	VAR	1388
CA50	4	6.3	2	694	VAR	1448
CA50	5	6.3	2	724	VAR	1448
CA50	6	6.3	2	580	VAR	1150

Resumo do aço

CA50	DIM1	C.TOTAL	PESO
CA50	6.3	181.3	1476
CA50	5.0	18.5	28
PESO TOTAL			1504
CA50	13.3		
CA50	2.3		

Vol. de concreto total (C-25) = 1888 m³

Armação positiva das lajes do pavimento PAV. LAJE SEM ESCALA



Relação do aço

Negativos	CA50	N	DIM1	Q	UNIT	C.TOTAL
CA50	1	6.3	34	207	cm	7038
CA50	2	6.3	35	177	cm	6196
CA50	3	8.0	14	122	cm	1738
CA50	4	8.0	22	242	cm	5524
CA50	5	8.0	22	242	cm	5524
CA50	6	8.0	35	252	cm	8820

Resumo do aço

CA50	DIM1	C.TOTAL	PESO
CA50	6.3	132.4	32.4
CA50	8.0	238.9	94.2
PESO TOTAL			126.6

Armação negativa das lajes do pavimento PAV. LAJE SEM ESCALA

ALTERAÇÃO	DATA	ELABORAÇÃO	REVISÃO
		31/08/2017	
PROJETO		CRAS - JD BEM VIVER	
CLIENTE		PREF. MUNIC. DE STO ANT. DO LESTE	
INDICAÇÃO		ENGENHEIRO DE A. MOJIPA	
ESCALA		ENG. CIVIL - CRM/MT 02237	
AUTOR DO PROJETO		ARQUITO	
PROJETO ESTRUTURAL		009	
ARMADAÇÃO DE LAJES - POSITIVAS E NEGATIVAS		PRANCA	
FUTURO		EST	



Planta de vigotas pré-moldadas
SEM ESCALA

Armação positiva das lajes do pavimento PAV. LAJE
SEM ESCALA

ALTERAÇÃO	DATA	ELABORADO	REVISADO
		31/08/2017	010
PROJETO ESTRUTURAL		CRAS - JD BEM VIVER	
ARMAÇÃO DE LAJES - VIGOTAS E DISTRIBUIÇÃO		FEDERHÉRIQUE DE A. MOURA ENG. CIVIL, CREA/MG 02237	
LAJES		AUTOR DO PROJETO	
PREF. MUNIC. DE STO. ANT. DO LESTE		010	
CLIENTE		ARQUIVO	
ENG. RESPONSÁVEL		PRANCA	
INDICAÇÃO		EST	
ESCALA		1:1	



Relação do aço

ELEMENTO	ACO	N	DIAM	Q	UNIT	C.TOTAL
14AVT1a	CA80	1	TR 16/745	14	435	6090
14AVT2a	CA80	2	TR 16/643	14	476	6644
15AVT3a	CA80	2	TR 12/646	15	188	13608
14AVT4a	CA80	2	TR 12/646	14	196	2790
13AVT5a	CA80	2	TR 12/646	13	166	2940
10AVT6a	CA80	2	TR 12/646	10	140	3544
13AVT7a	CA80	2	TR 12/646	13	166	2940
13AVT8a	CA80	2	TR 12/646	13	166	2940
13AVT9a	CA80	2	TR 12/646	13	166	2940
13AVT10a	CA80	2	TR 12/646	13	166	2940
13AVT11a	CA80	2	TR 12/646	13	166	2940
13AVT12a	CA80	2	TR 12/646	13	166	2940
13AVT13a	CA80	2	TR 12/646	13	166	2940
13AVT14a	CA80	2	TR 12/646	13	166	2940
13AVT15a	CA80	2	TR 12/646	13	166	2940
13AVT16a	CA80	2	TR 12/646	13	166	2940
13AVT17a	CA80	2	TR 12/646	13	166	2940
13AVT18a	CA80	2	TR 12/646	13	166	2940
13AVT19a	CA80	2	TR 12/646	13	166	2940
13AVT20a	CA80	2	TR 12/646	13	166	2940
13AVT21a	CA80	2	TR 12/646	13	166	2940
13AVT22a	CA80	2	TR 12/646	13	166	2940
13AVT23a	CA80	2	TR 12/646	13	166	2940
13AVT24a	CA80	2	TR 12/646	13	166	2940
13AVT25a	CA80	2	TR 12/646	13	166	2940
13AVT26a	CA80	2	TR 12/646	13	166	2940
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13AVT28a	CA80	2	TR 12/646	13	166	2940
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13AVT32a	CA80	2	TR 12/646	13	166	2940
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13AVT36a	CA80	2	TR 12/646	13	166	2940
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13AVT43a	CA80	2	TR 12/646	13	166	2940
13AVT44a	CA80	2	TR 12/646	13	166	2940
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13AVT54a	CA80	2	TR 12/646	13	166	2940
13AVT55a	CA80	2	TR 12/646	13	166	2940
13AVT56a	CA80	2	TR 12/646	13	166	2940
13AVT57a	CA80	2	TR 12/646	13	166	2940
13AVT58a	CA80	2	TR 12/646	13	166	2940
13AVT59a	CA80	2	TR 12/646	13	166	2940
13AVT60a	CA80	2	TR 12/646	13	166	2940
13AVT61a	CA80	2	TR 12/646	13	166	2940
13AVT62a	CA80	2	TR 12/646	13	166	2940
13AVT63a	CA80	2	TR 12/646	13	166	2940
13AVT64a	CA80	2	TR 12/646	13	166	2940
13AVT65a	CA80	2	TR 12/646	13	166	2940
13AVT66a	CA80	2	TR 12/646	13	166	2940
13AVT67a	CA80	2	TR 12/646	13	166	2940
13AVT68a	CA80	2	TR 12/646	13	166	2940
13AVT69a	CA80	2	TR 12/646	13	166	2940
13AVT70a	CA80	2	TR 12/646	13	166	2940
13AVT71a	CA80	2	TR 12/646	13	166	2940
13AVT72a	CA80	2	TR 12/646	13	166	2940
13AVT73a	CA80	2	TR 12/646	13	166	2940
13AVT74a	CA80	2	TR 12/646	13	166	2940
13AVT75a	CA80	2	TR 12/646	13	166	2940
13AVT76a	CA80	2	TR 12/646	13	166	2940
13AVT77a	CA80	2	TR 12/646	13	166	2940
13AVT78a	CA80	2	TR 12/646	13	166	2940
13AVT79a	CA80	2	TR 12/646	13	166	2940
13AVT80a	CA80	2	TR 12/646	13	166	2940
13AVT81a	CA80	2	TR 12/646	13	166	2940
13AVT82a	CA80	2	TR 12/646	13	166	2940
13AVT83a	CA80	2	TR 12/646	13	166	2940
13AVT84a	CA80	2	TR 12/646	13	166	2940
13AVT85a	CA80	2	TR 12/646	13	166	2940
13AVT86a	CA80	2	TR 12/646	13	166	2940
13AVT87a	CA80	2	TR 12/646	13	166	2940
13AVT88a	CA80	2	TR 12/646	13	166	2940
13AVT89a	CA80	2	TR 12/646	13	166	2940
13AVT90a	CA80	2	TR 12/646	13	166	2940
13AVT91a	CA80	2	TR 12/646	13	166	2940
13AVT92a	CA80	2	TR 12/646	13	166	2940
13AVT93a	CA80	2	TR 12/646	13	166	2940
13AVT94a	CA80	2	TR 12/646	13	166	2940
13AVT95a	CA80	2	TR 12/646	13	166	2940
13AVT96a	CA80	2	TR 12/646	13	166	2940
13AVT97a	CA80	2	TR 12/646	13	166	2940
13AVT98a	CA80	2	TR 12/646	13	166	2940
13AVT99a	CA80	2	TR 12/646	13	166	2940
13AVT100a	CA80	2	TR 12/646	13	166	2940

Resumo do aço

ACO	DIAM	C.TOTAL	PESO
CA80	6.3	480.6	120
TR 12/646	8.0	48.1	19
TR 16/745	543.5	483.6	127.4
TR 16/745	127.4	131.5	293.9
PESO TOTAL	579		363.9



CRAS - JD BEM VIVER

PROJETO ESTRUTURAL
ARMAÇÃO DE LAJES - DETALHES DE VIGOTAS

011

FEDERHÉRIQUE DE A. MOURA
ENG. CIVIL - CREIAM 02337

ALVARO DO ROSARIO

ALTERAÇÃO	DATA	INDICAÇÃO	INDICAÇÃO	INDICAÇÃO
31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017