

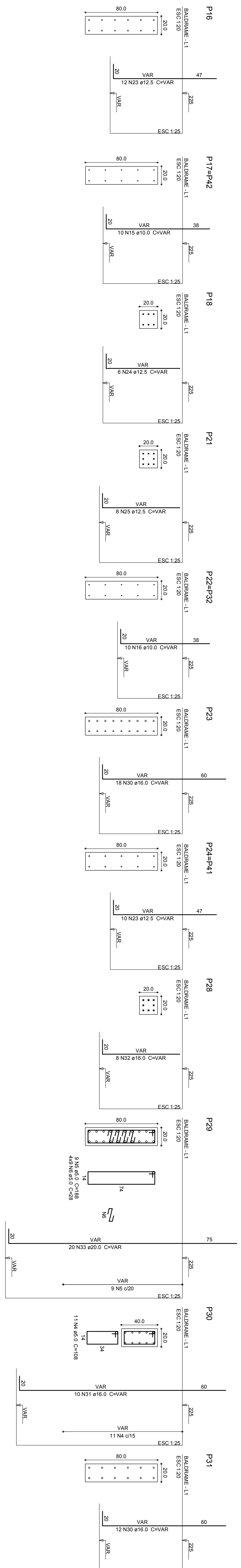
ACO	DIAM	C-TOTAL	PSFO + 10%
CA60	6.3	88.9	20.2
	(mm)	(mm)	(mm)
		430.6	292.1
		10.0	154.4
		12.5	163.5
		16.0	509.5
CA60	5.0	207.4	35.2
PSFO TOTAL	(kg)		
CA60	1579.1		
CA60	35.2		

Volume de concreto (C-25) = 25.48 m³
 Área de forma = 110.22 m²

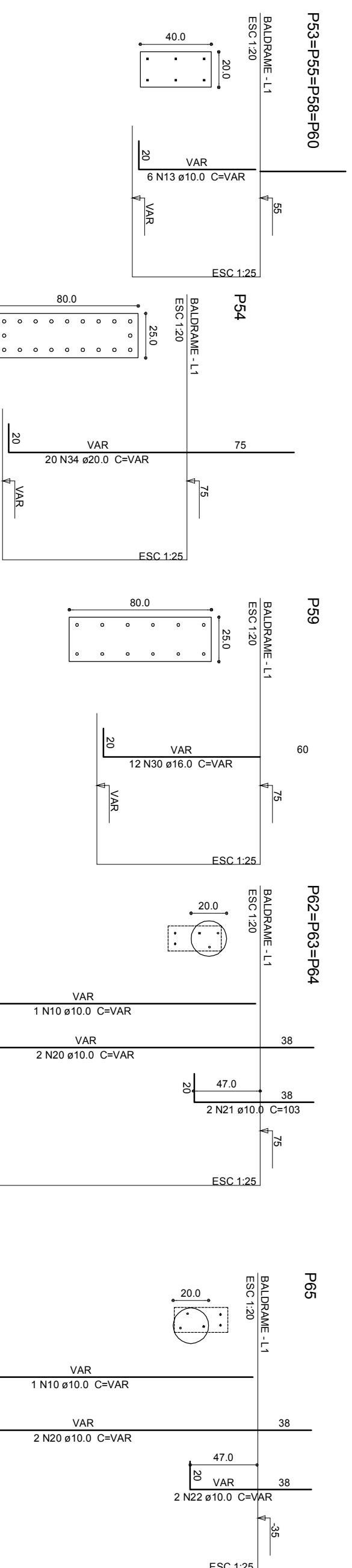
Nota:
- Executar os blocos B53, B55, B58 e B60 no mesmo nível da viga de equilíbrio.

Nota:

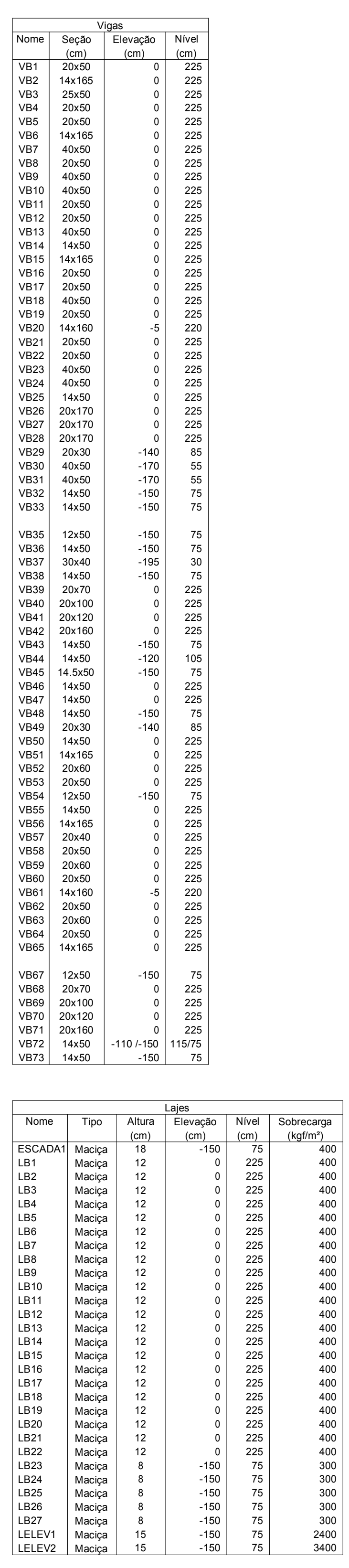
- A superfície superior do bloco deve facear a superfície inferior da viga.



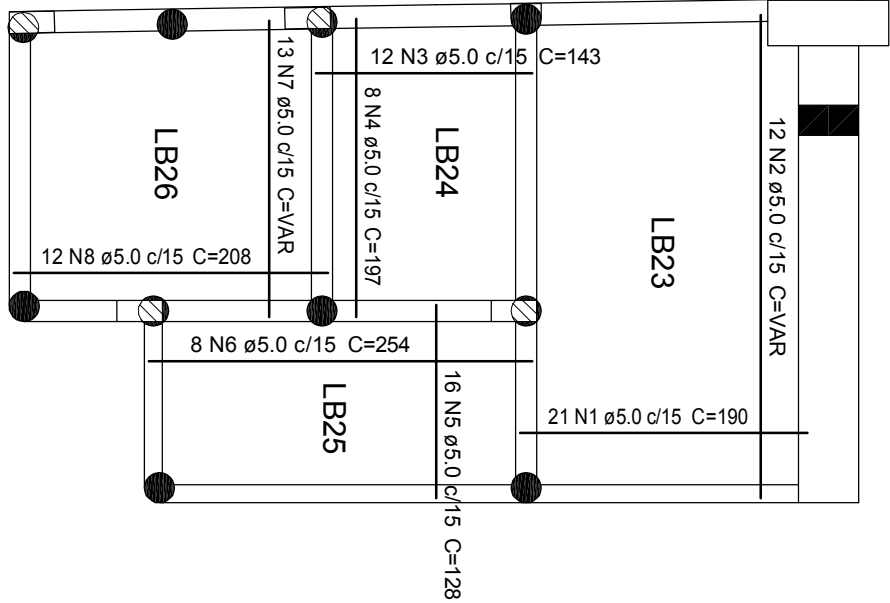
Volume de concreto (C-25) = 7.11 m³
Área de forma = 103.59 m²



Associação de Municípios do Nordeste do Estado de Santa Catarina
 48914-000 - JONÂNIO, E - SC - Rua Mau Celis, 1443 - Anitápolis - Fone: 0747 433.3907
 ASSISSORA E COORDENADORA DE PLANEJAMENTO URBANO, E REGIONAL
 home page : www.ammunes.org.br
 CREA SC 48.825-4



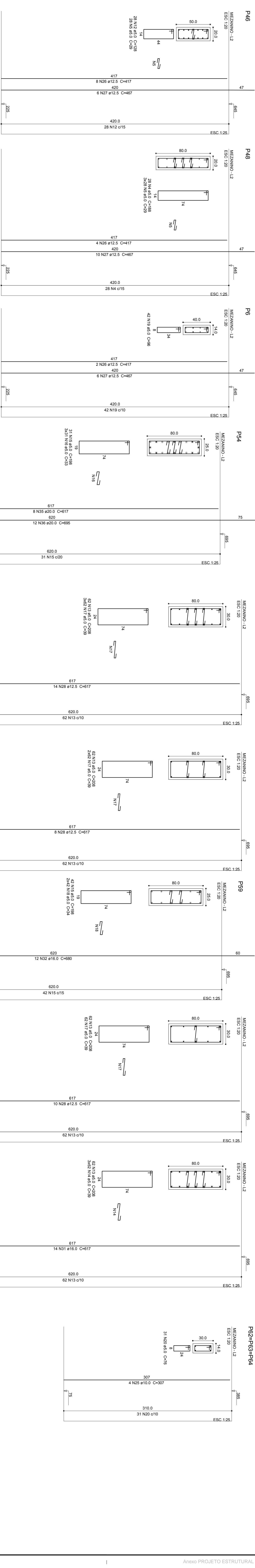
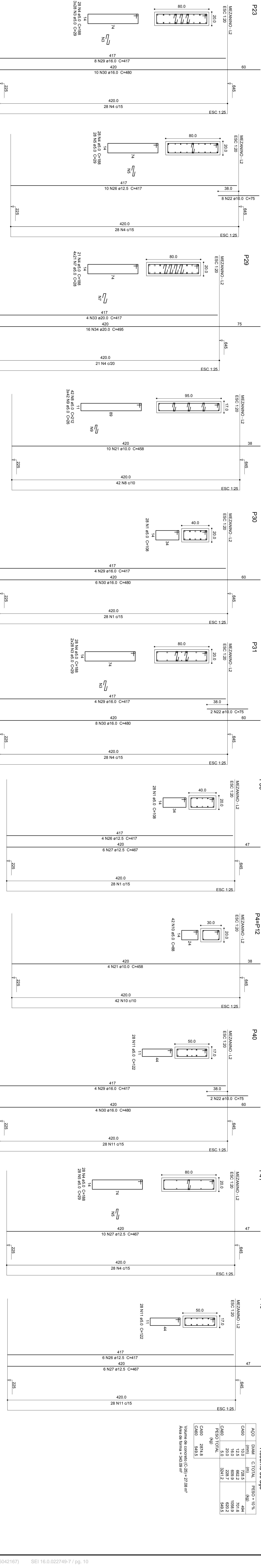
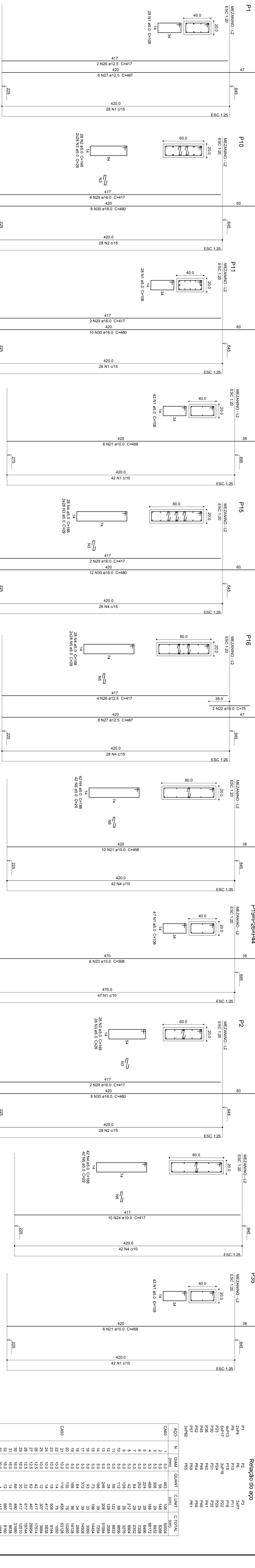
Características dos materiais	
f_{ck} (kgf/cm ²)	E_{cs} (kgf/cm ²)
250	241500



Armação Positiva das Lajes do Pavto. Térreo

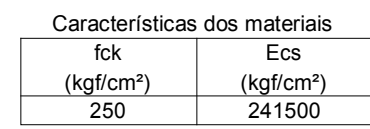
Relação do aço

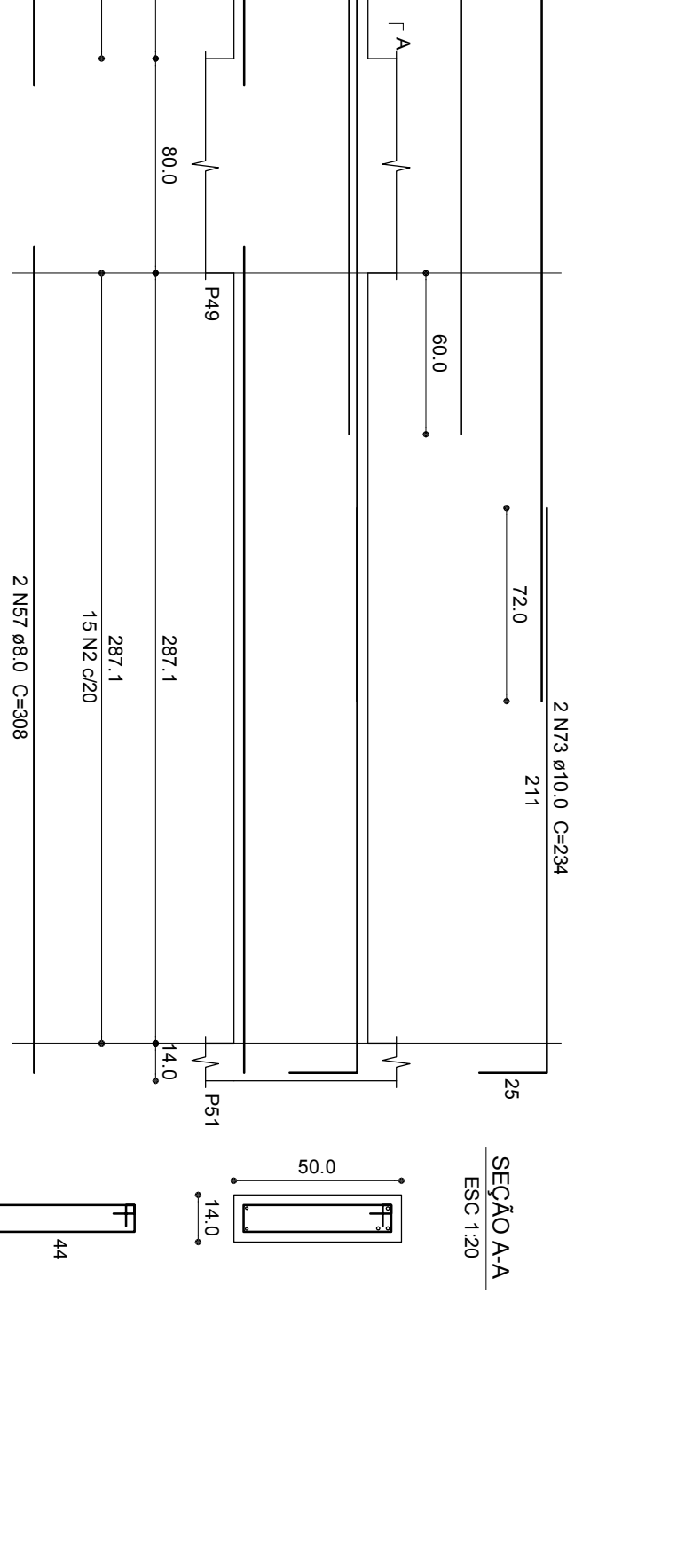
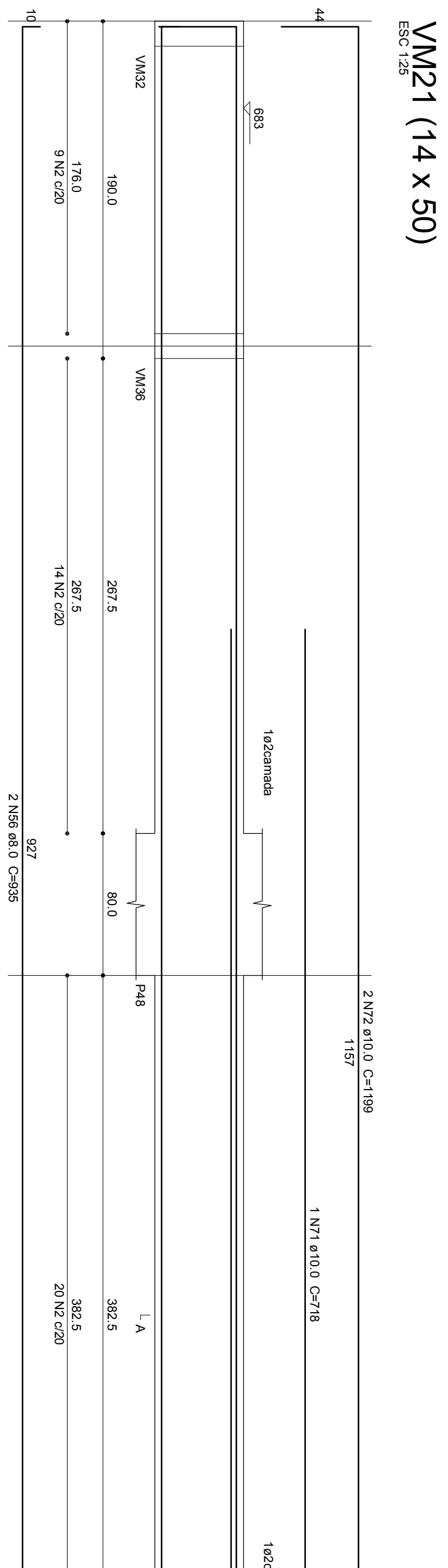
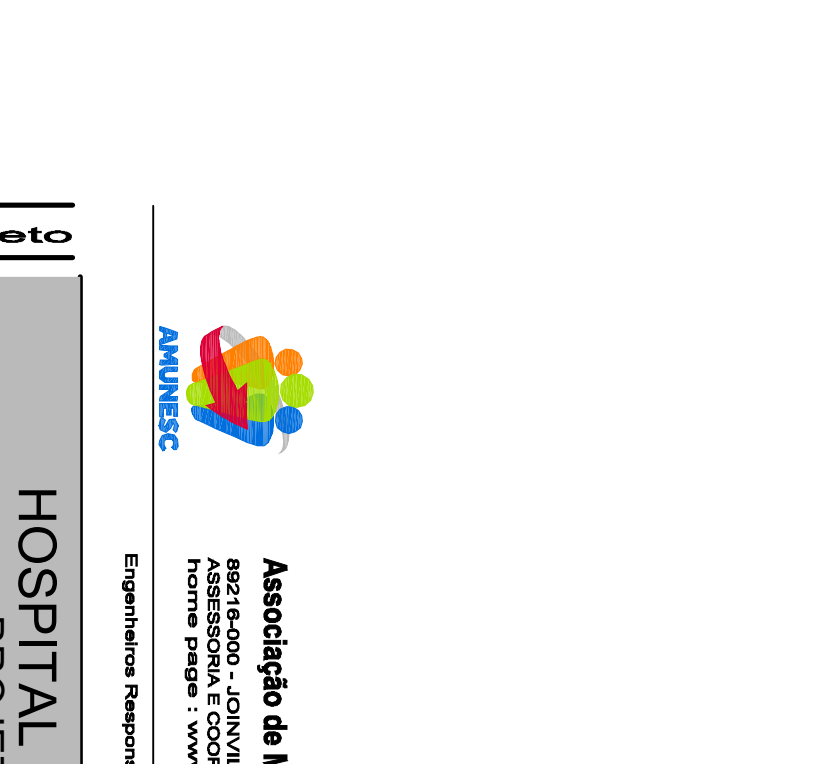
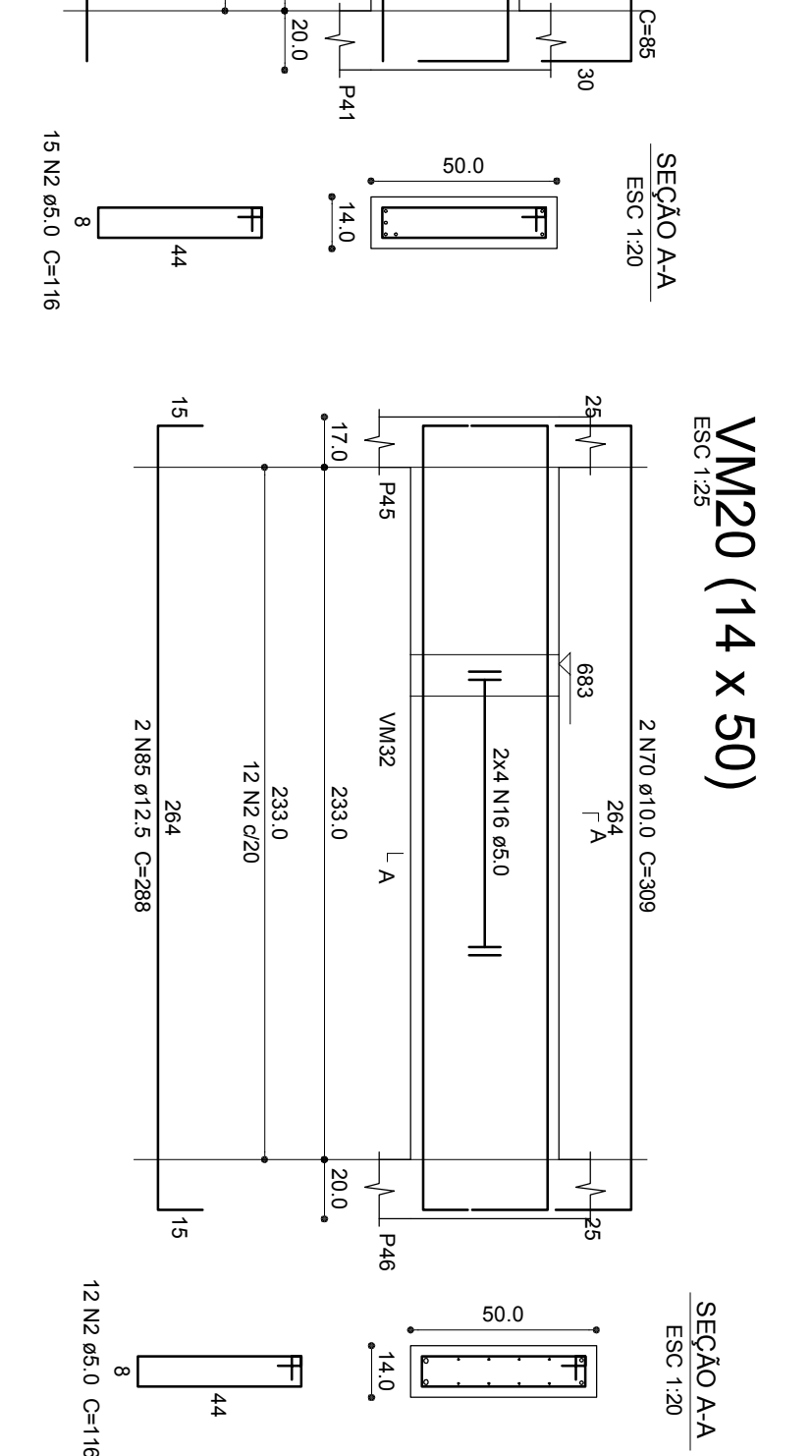
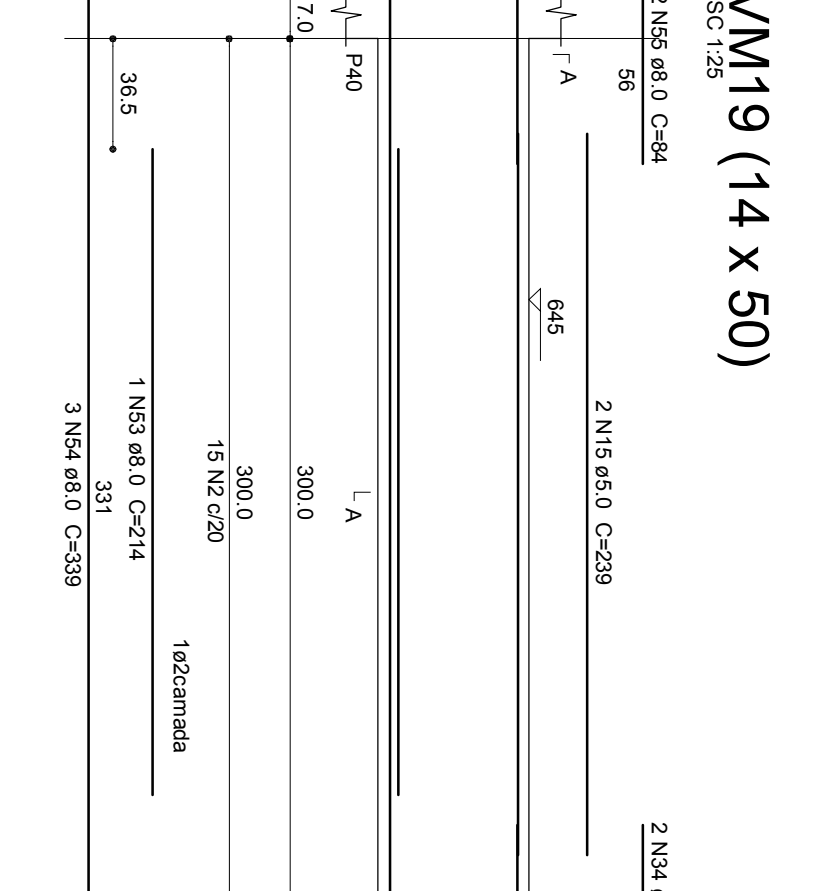
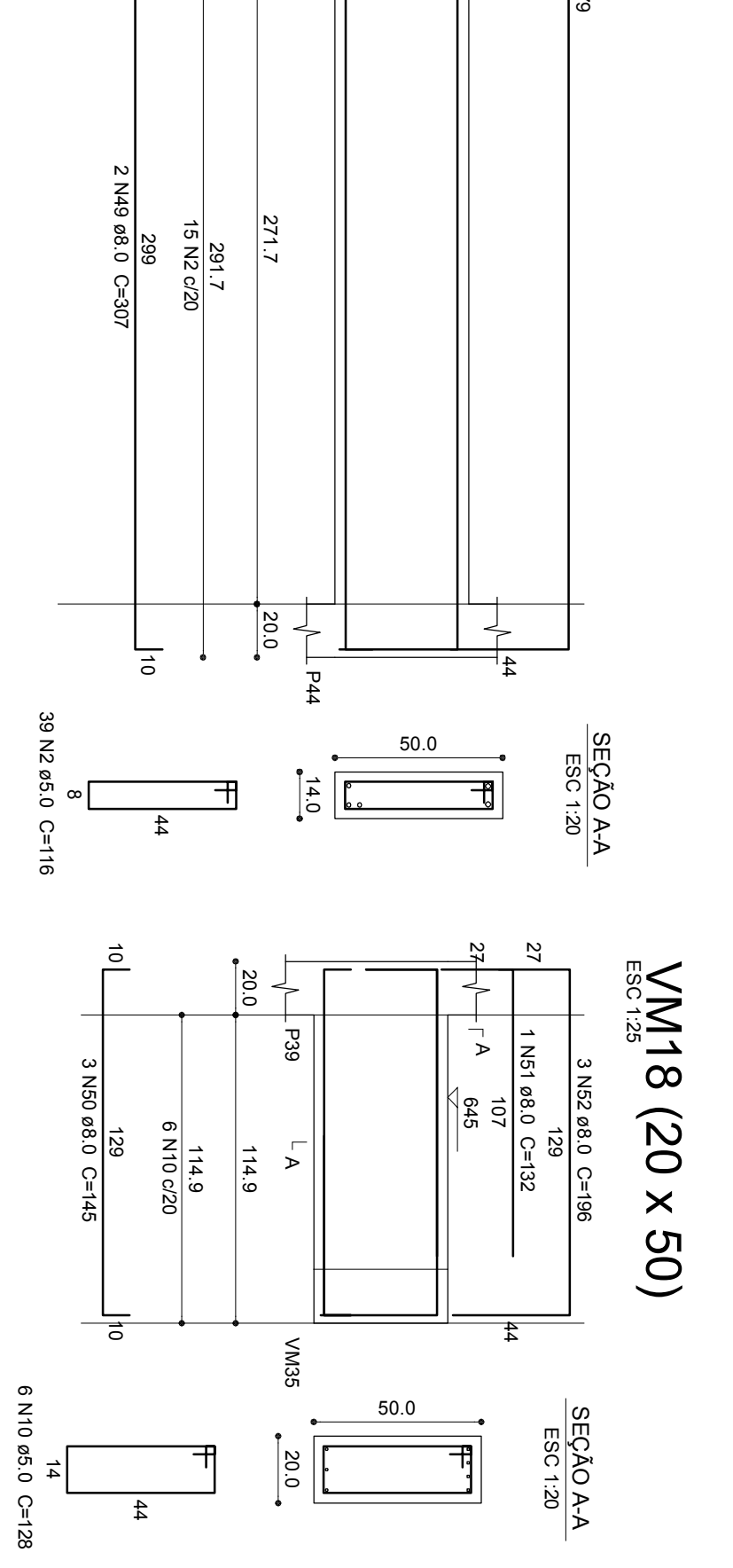
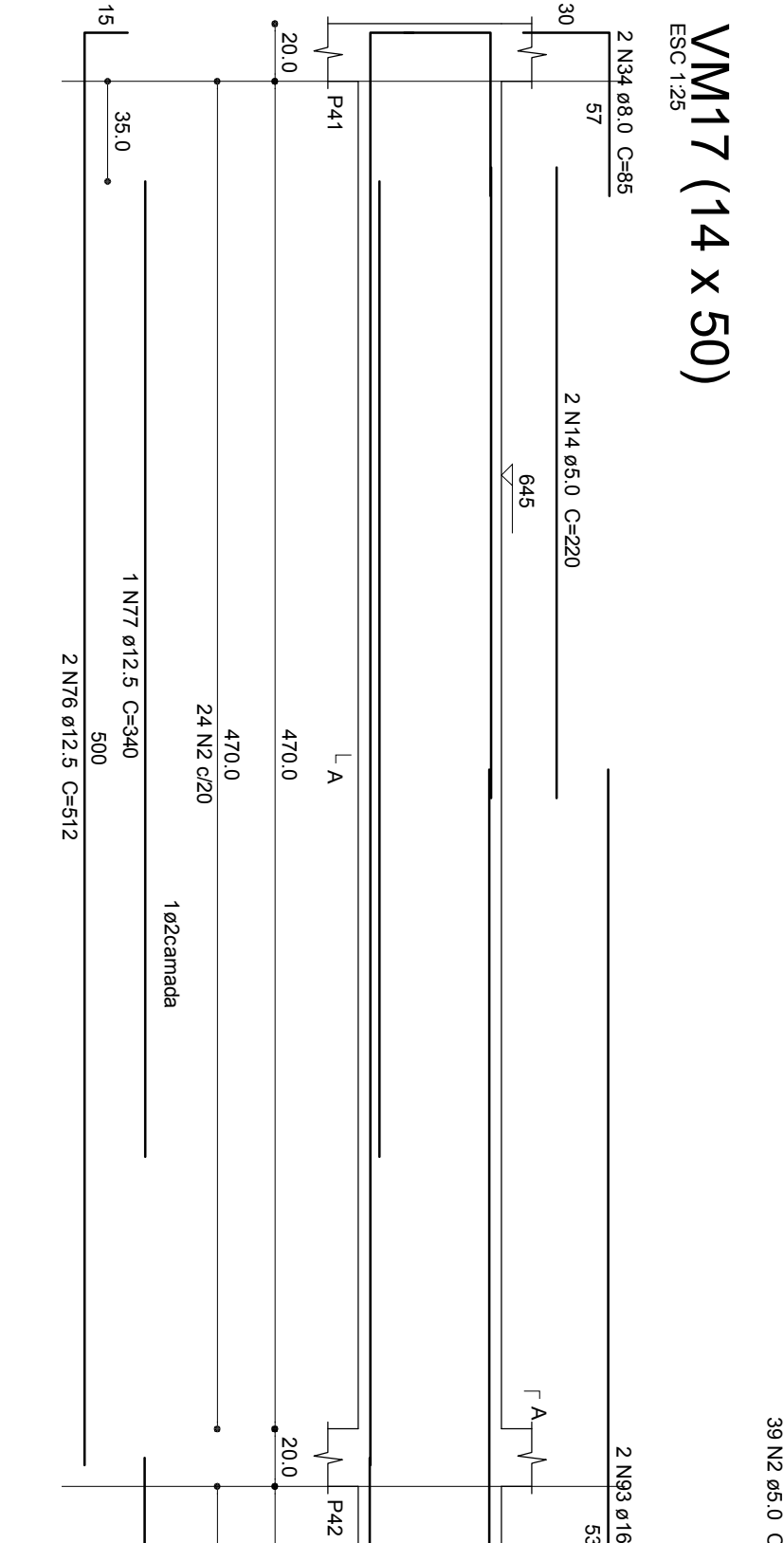
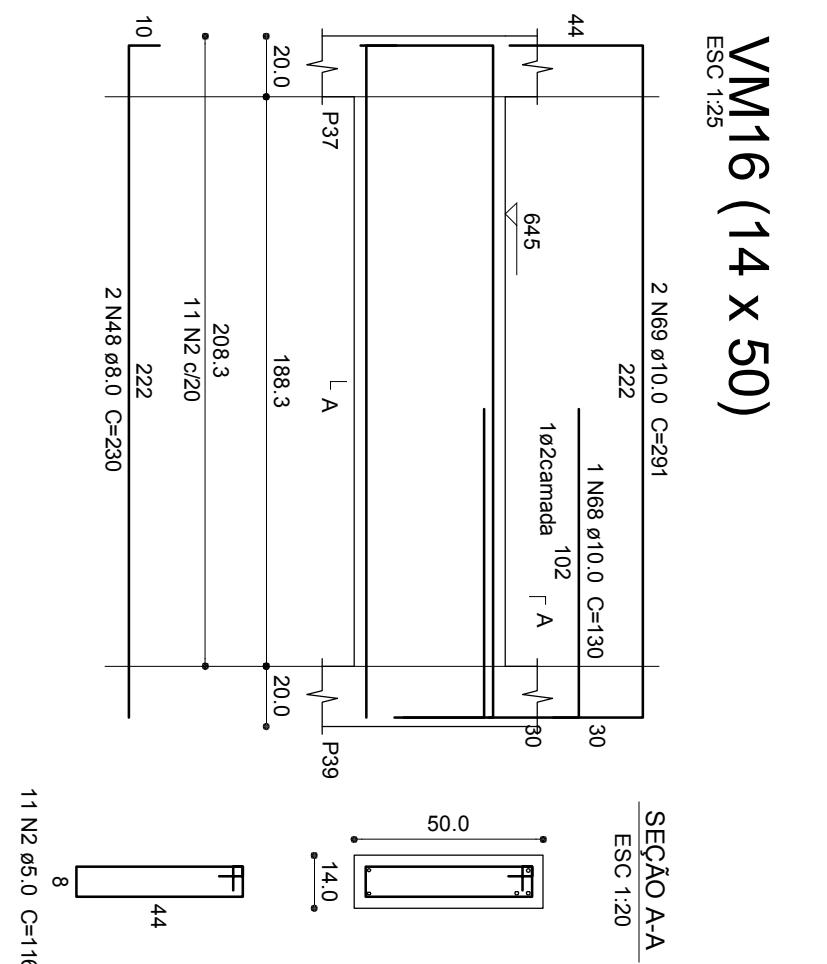
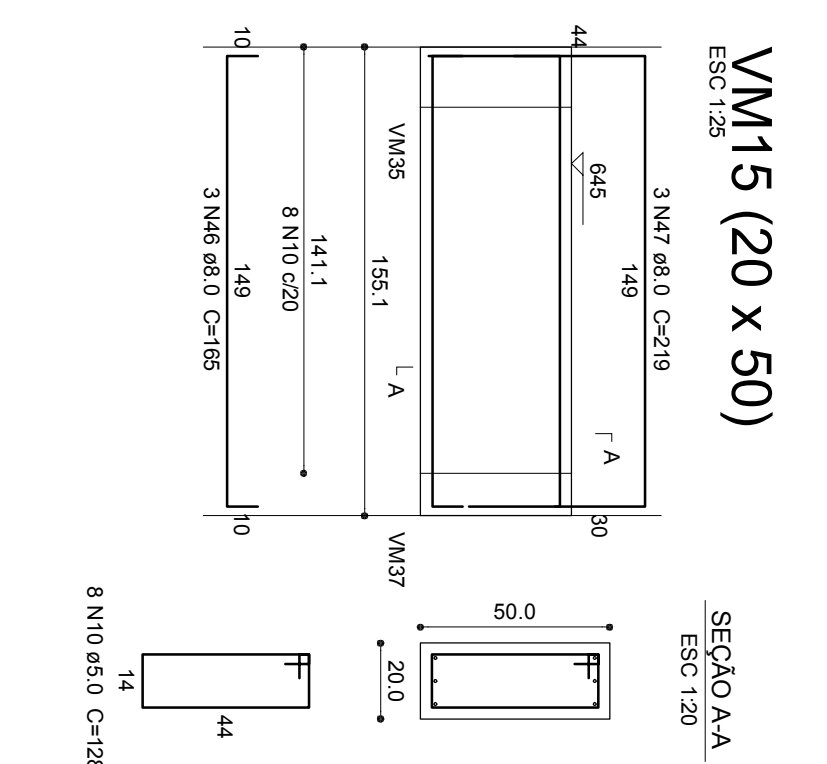
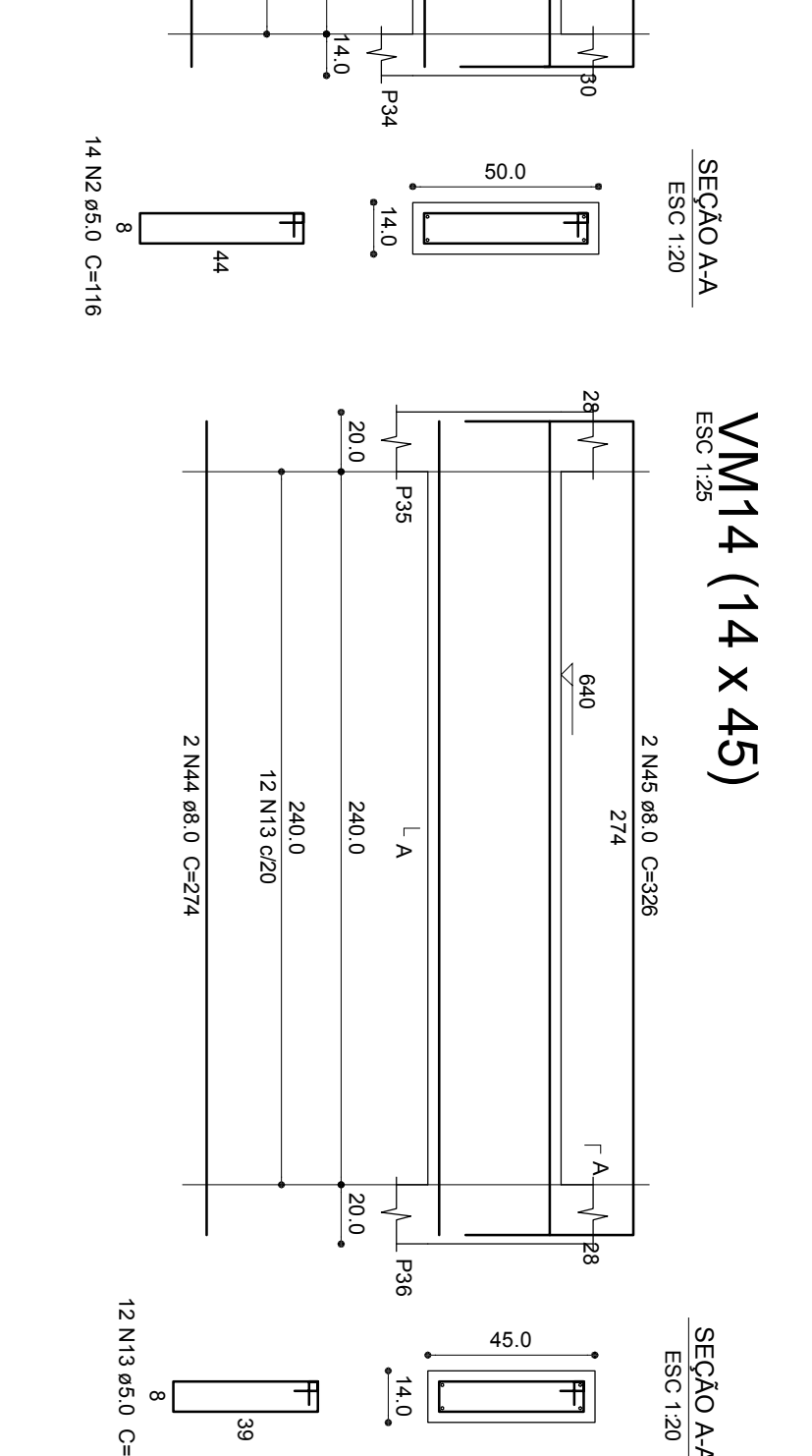
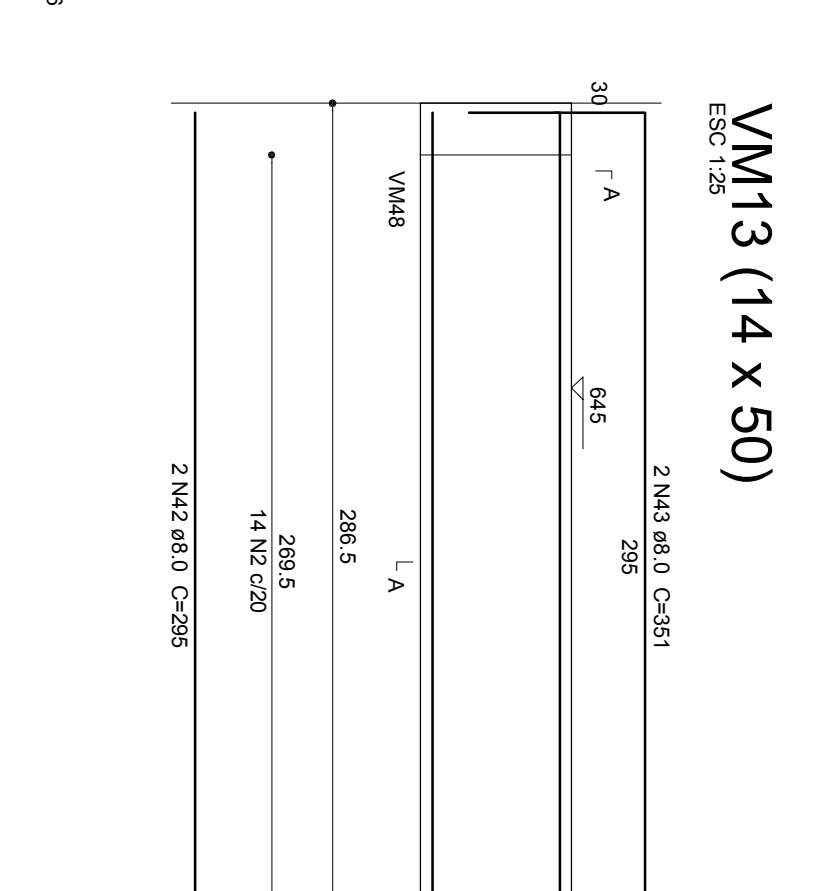
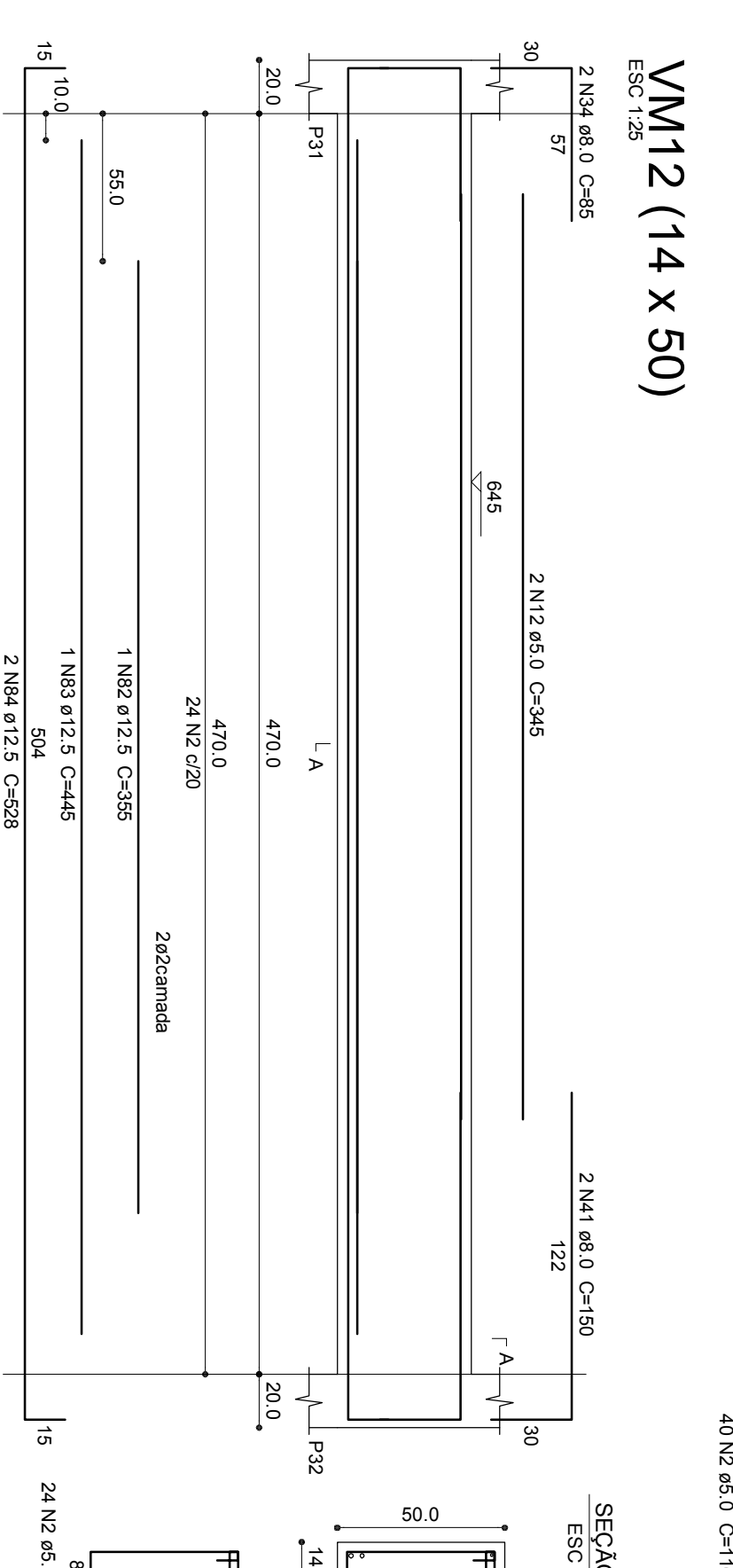
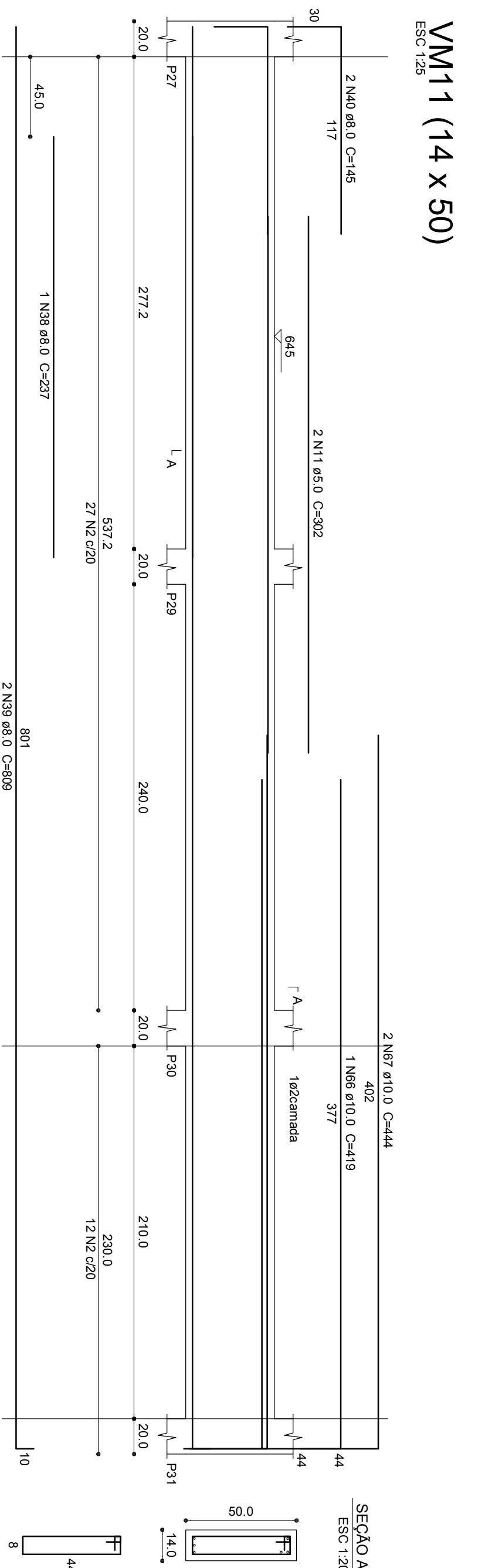
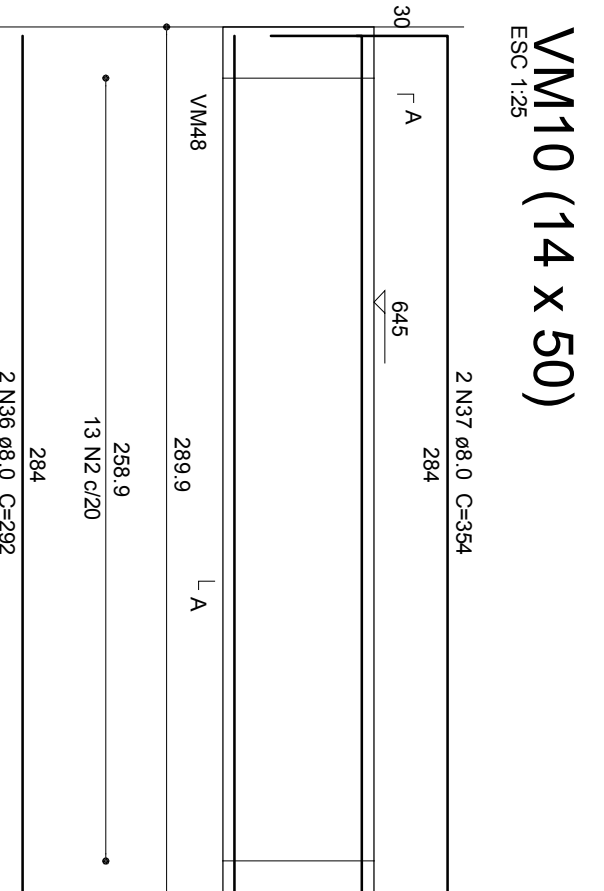
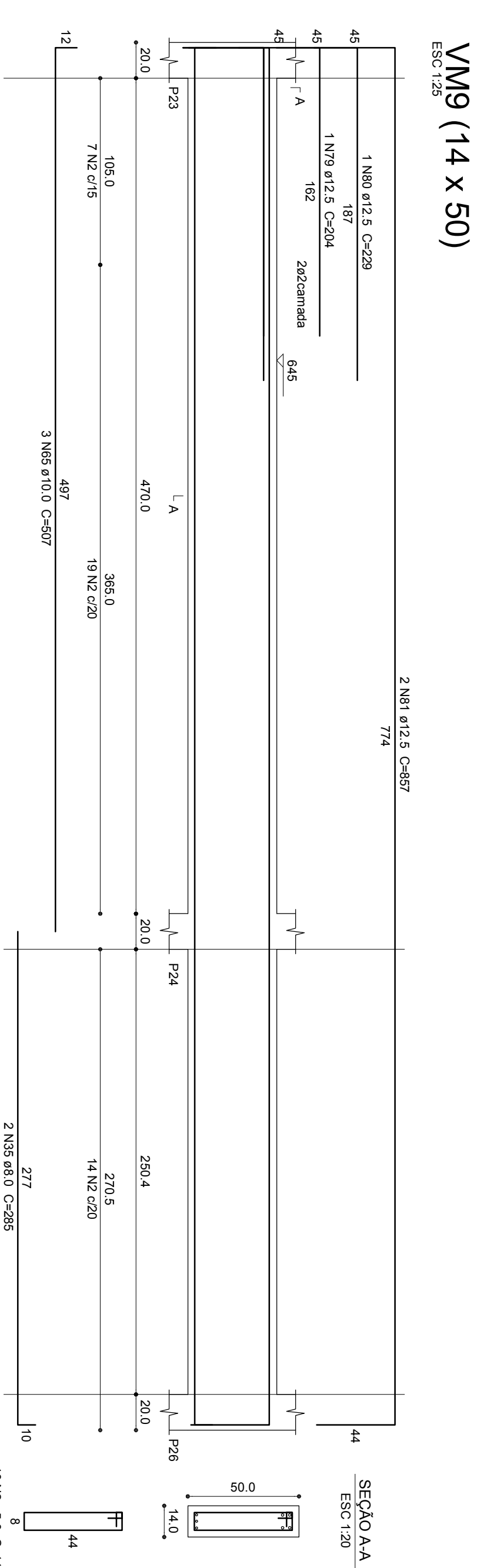
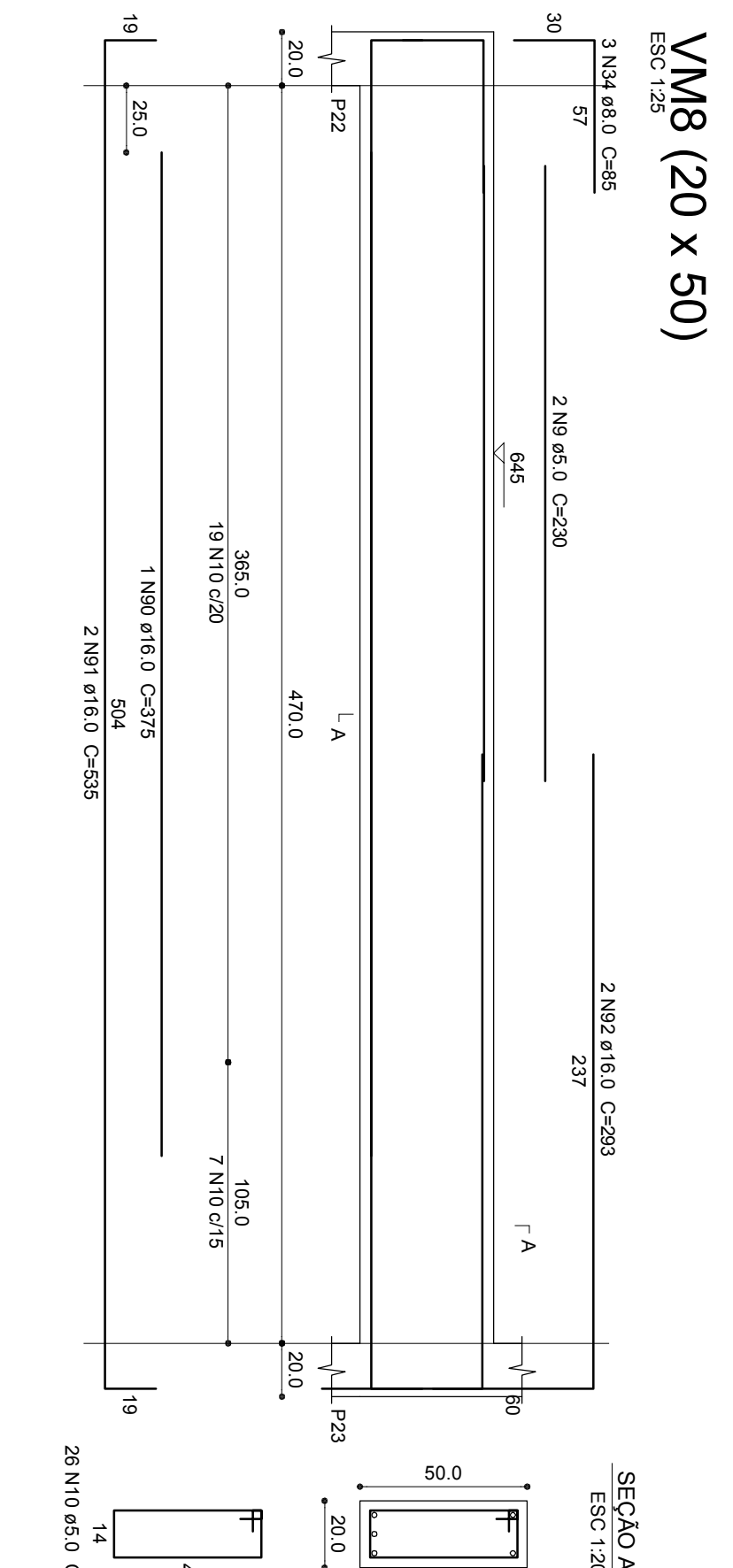
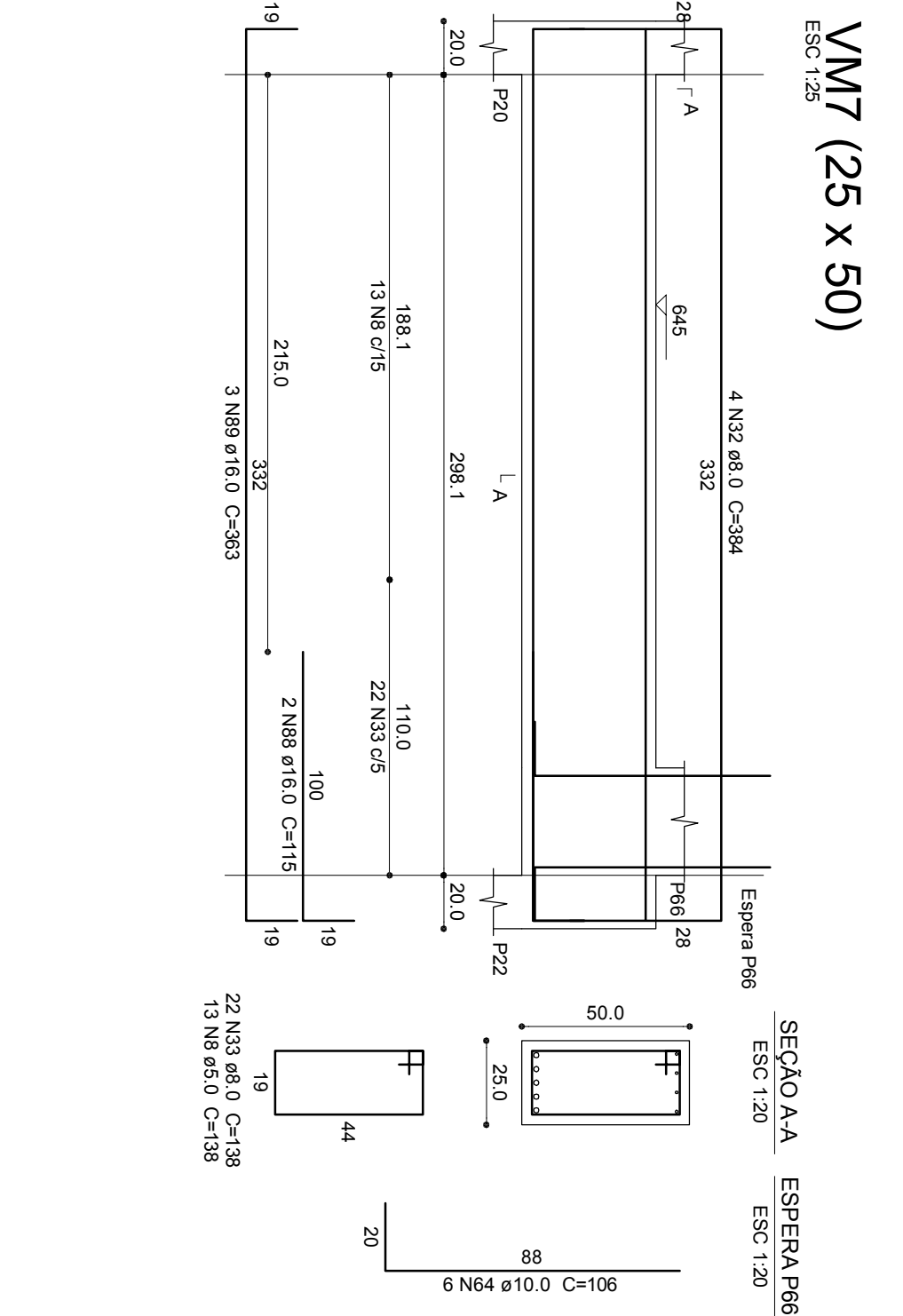
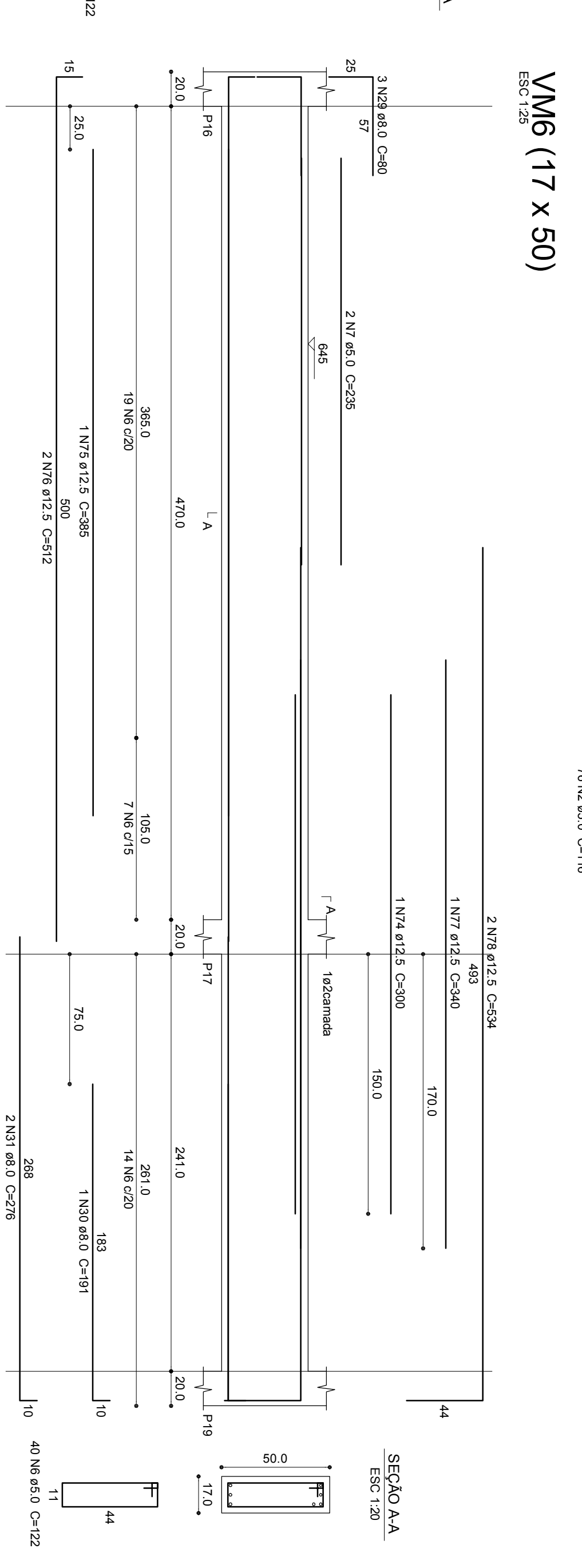
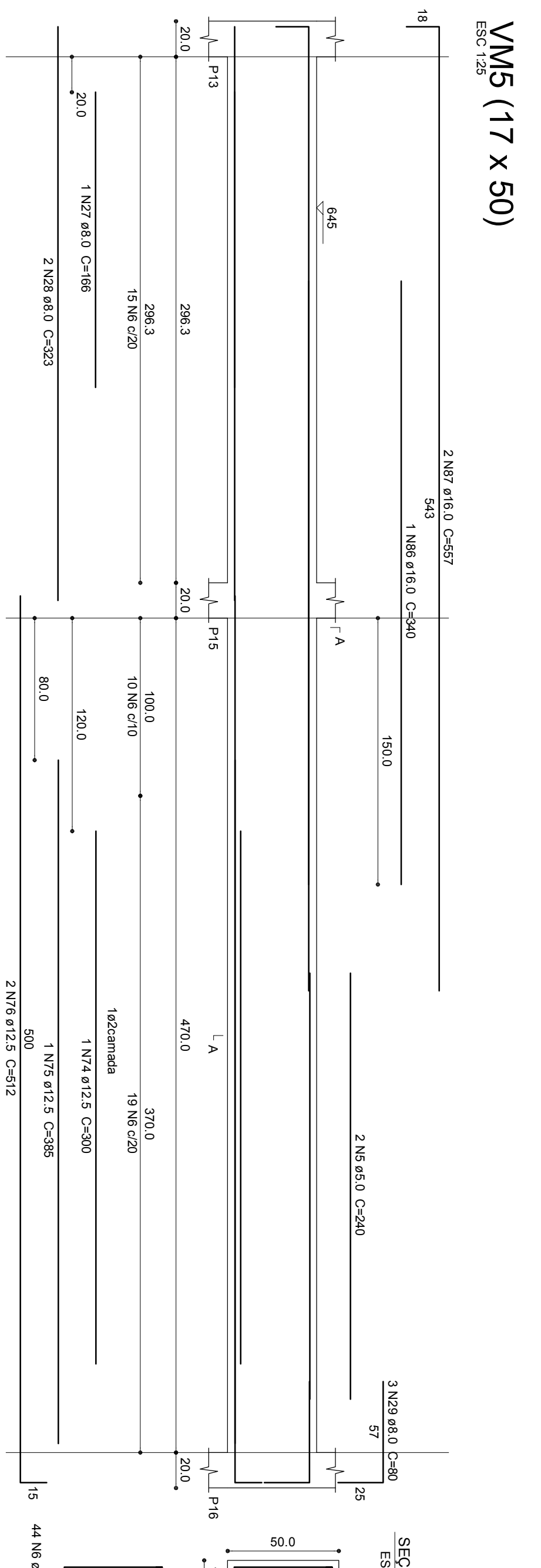
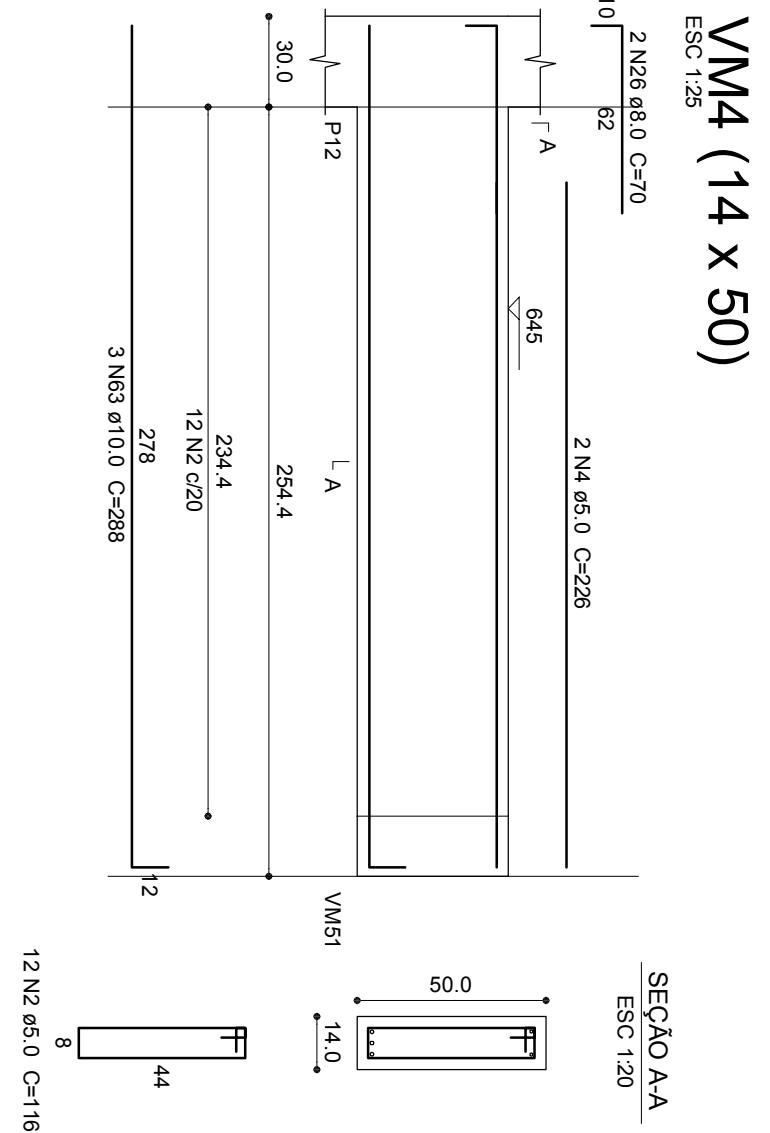
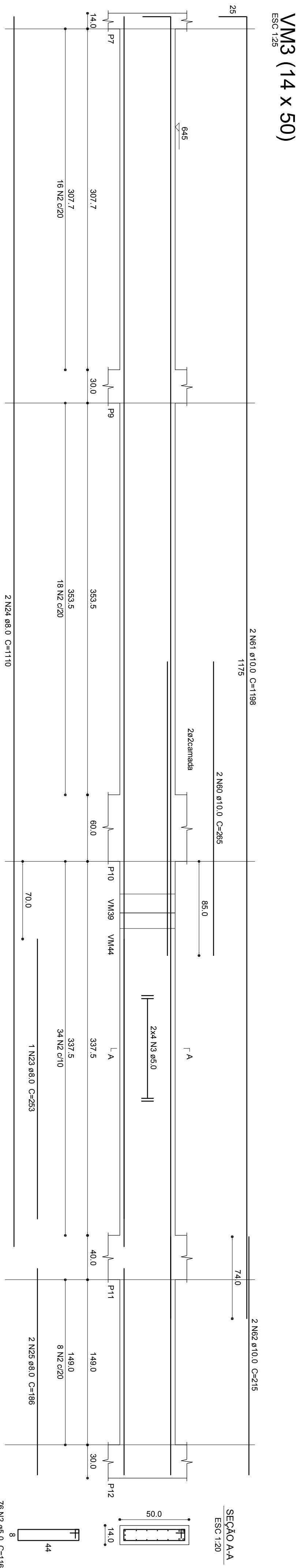
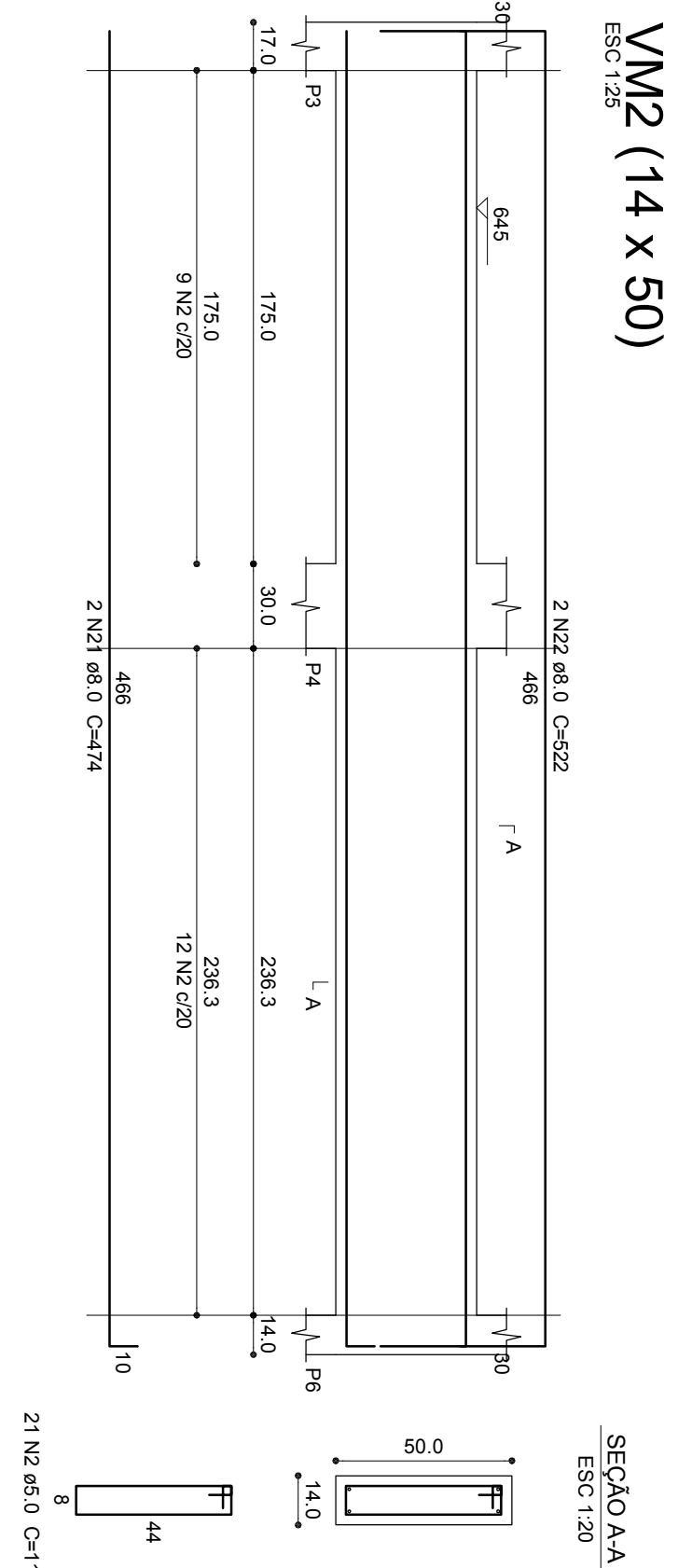
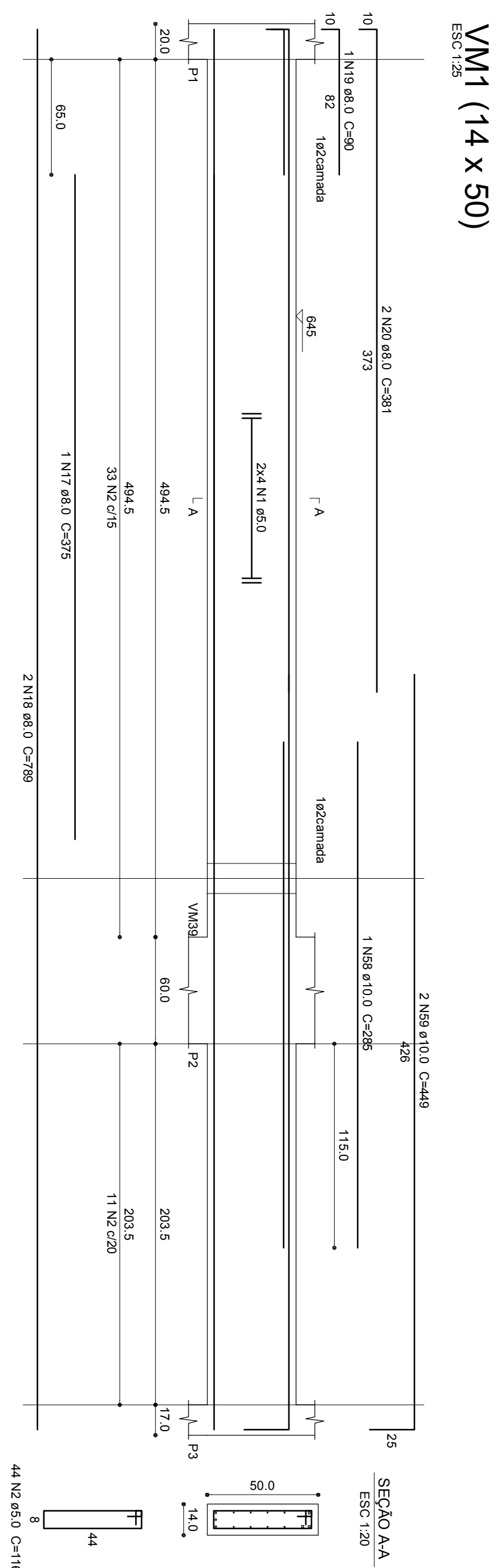
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[illegible]

ADQ	DAM	C.TOTAL	PESO + 10 %
(mm)	(m)	(kg)	
CABO	10,0	728,5	484
	12,5	662,2	701,6
	16,0	609,9	1068,9
	20,0	287,7	620,2
CABO	5,0	3241,2	540,5
PESO TOTAL	(kg)		
CABO	2874,8		
CABO	540,5		

Volume de concreto (C-25) = 27,08 m³
 Área de forma = 343,09 m²





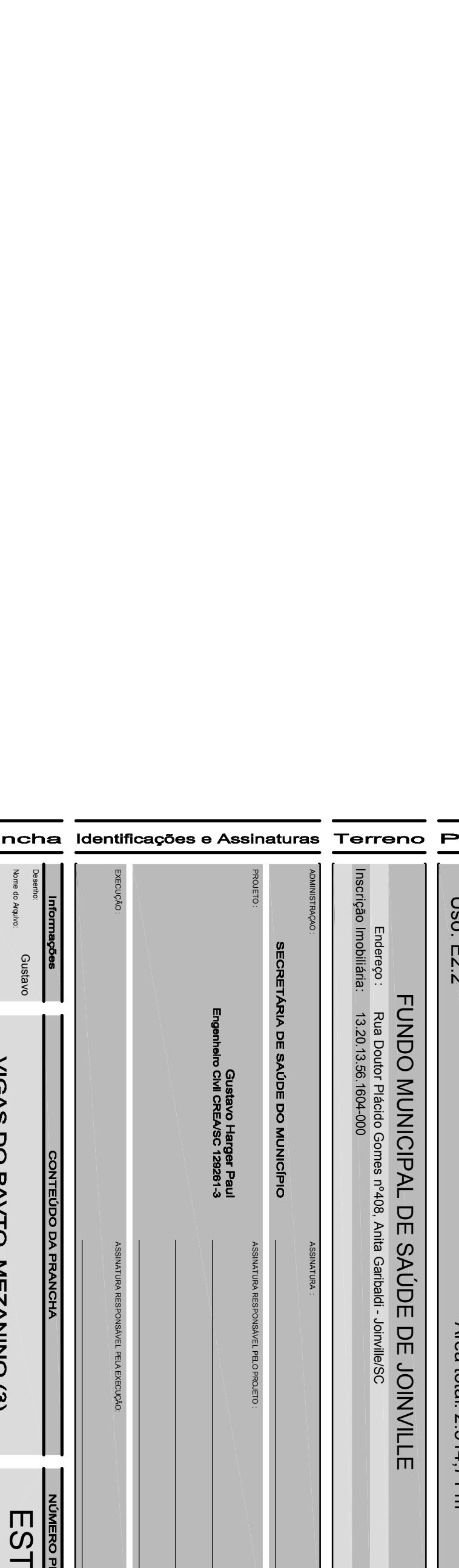
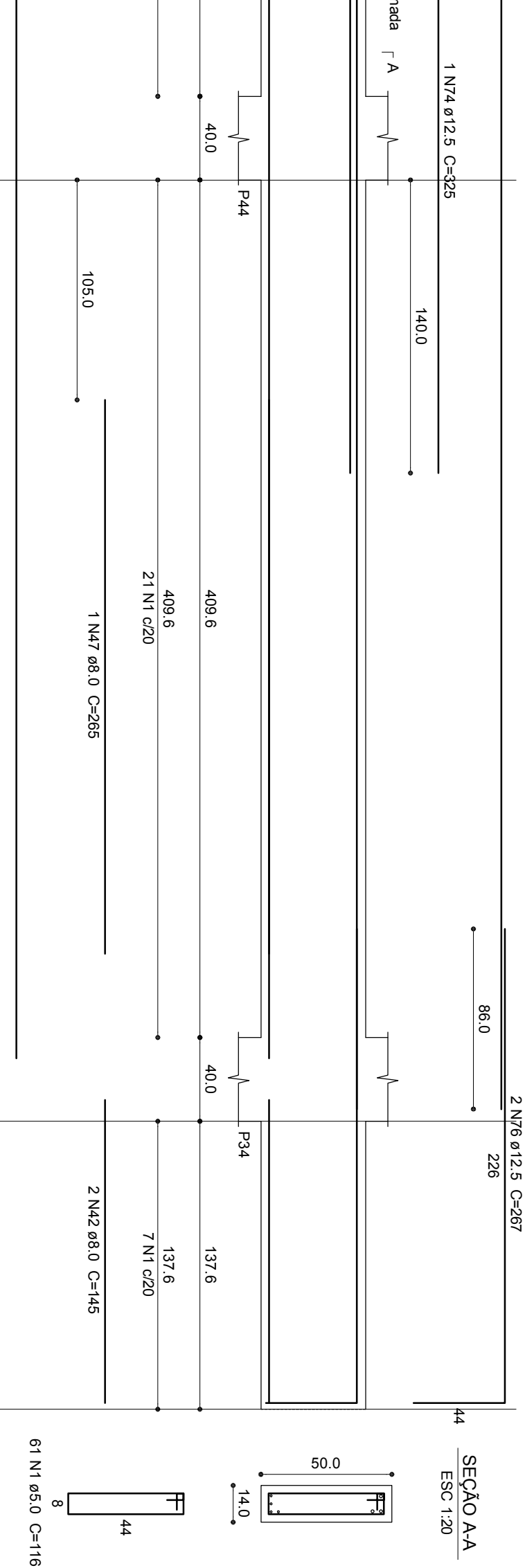
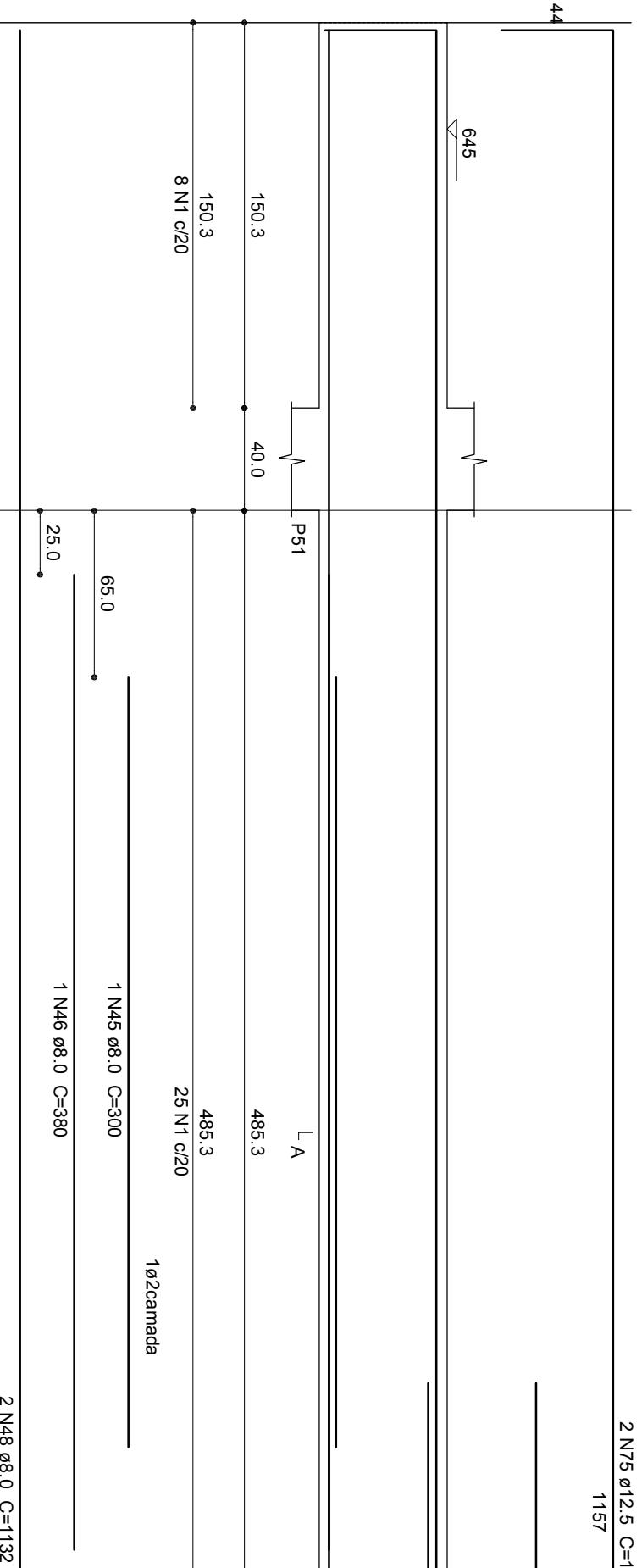
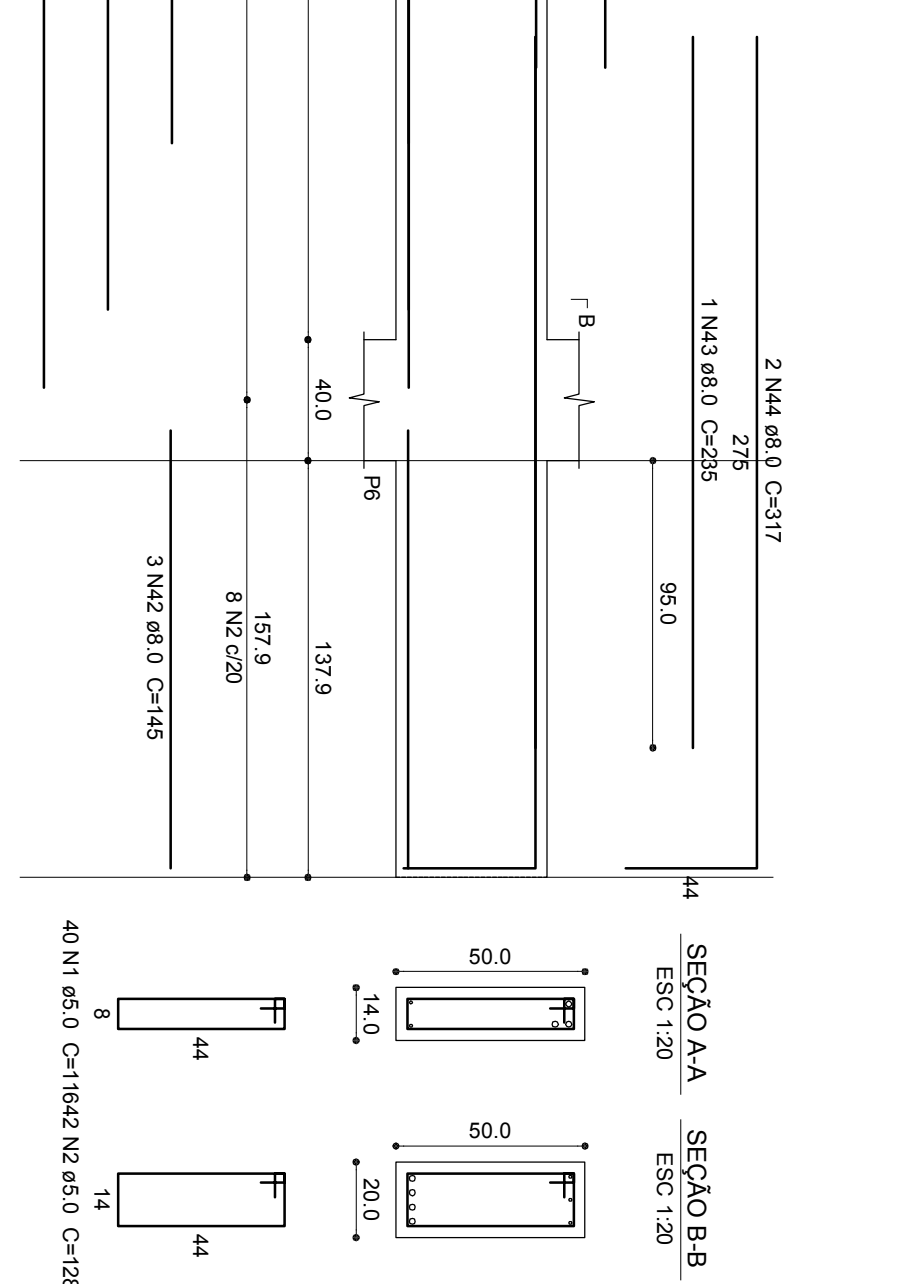
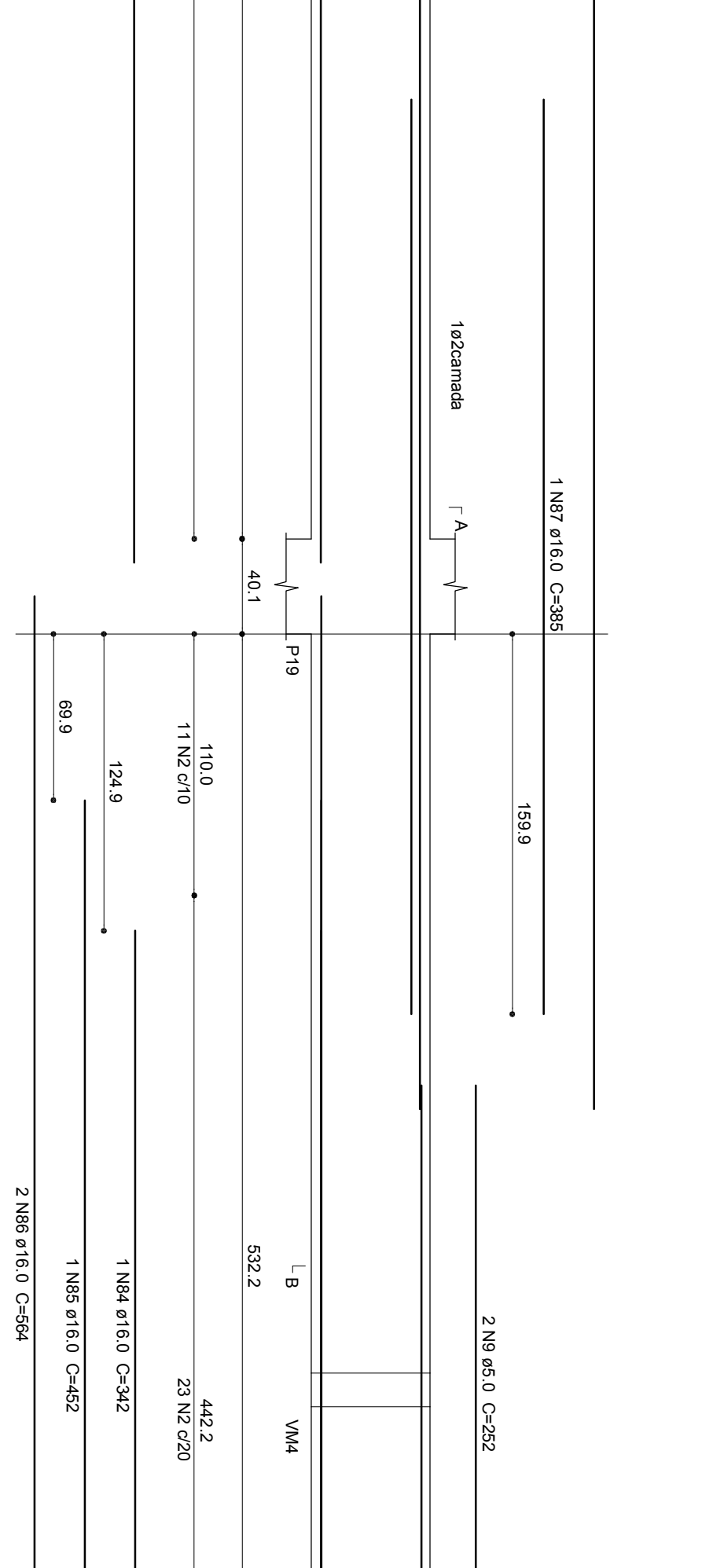
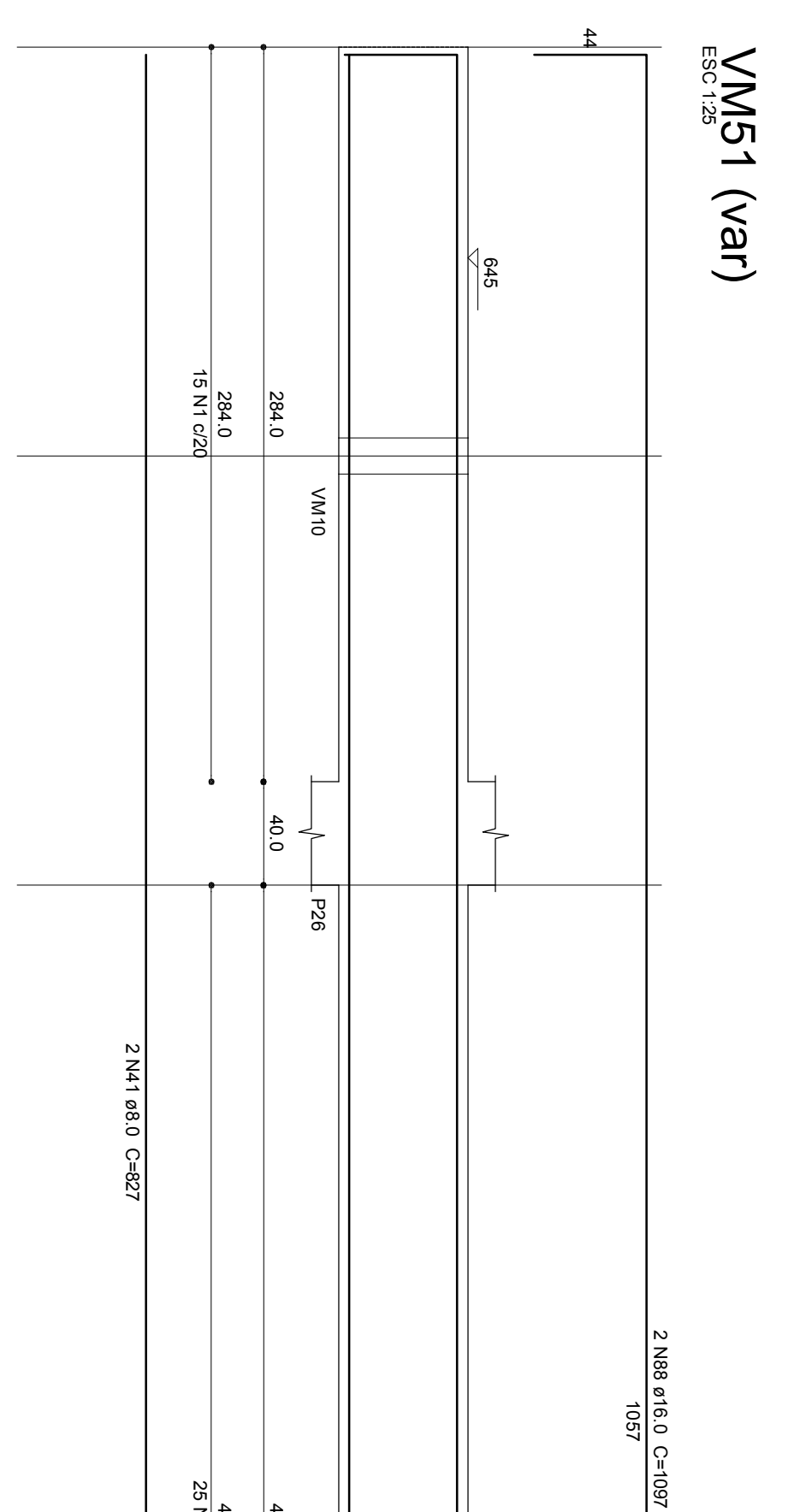
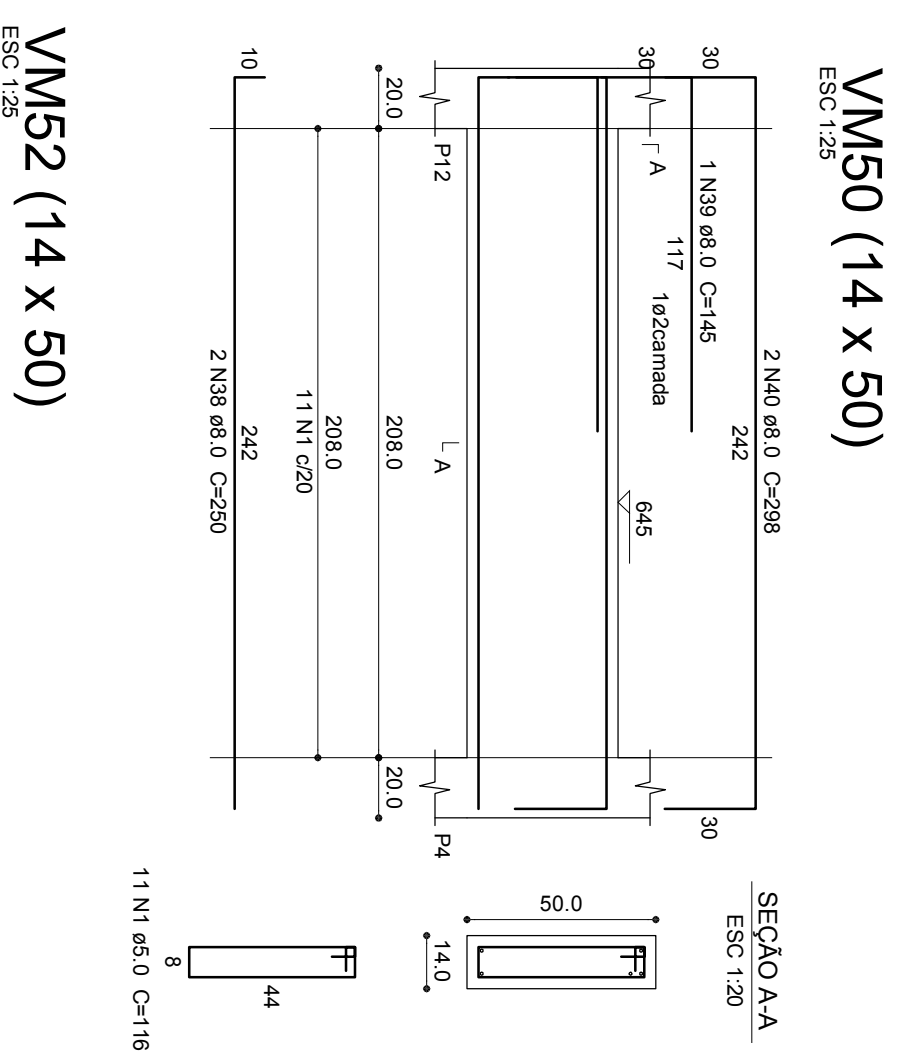
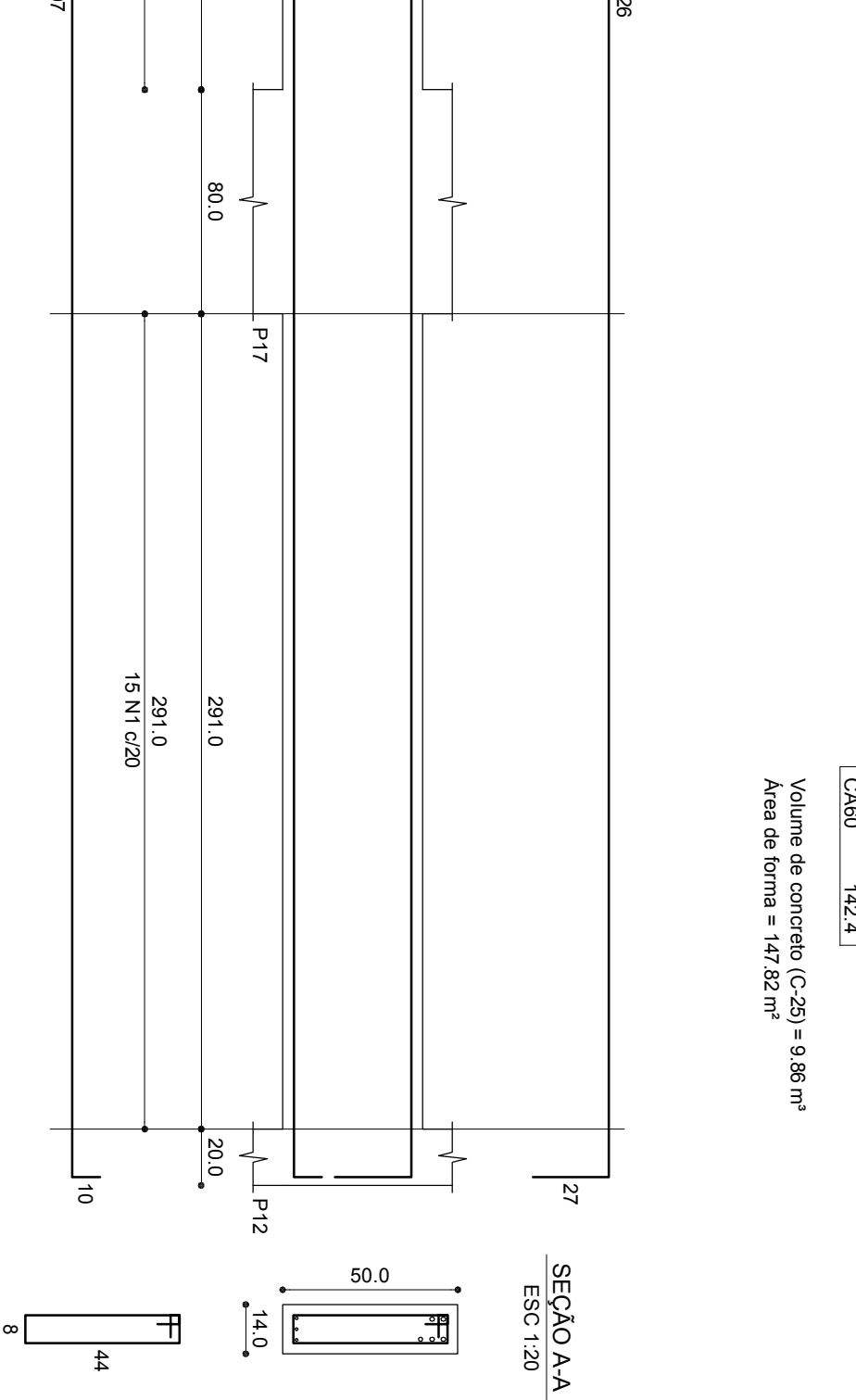
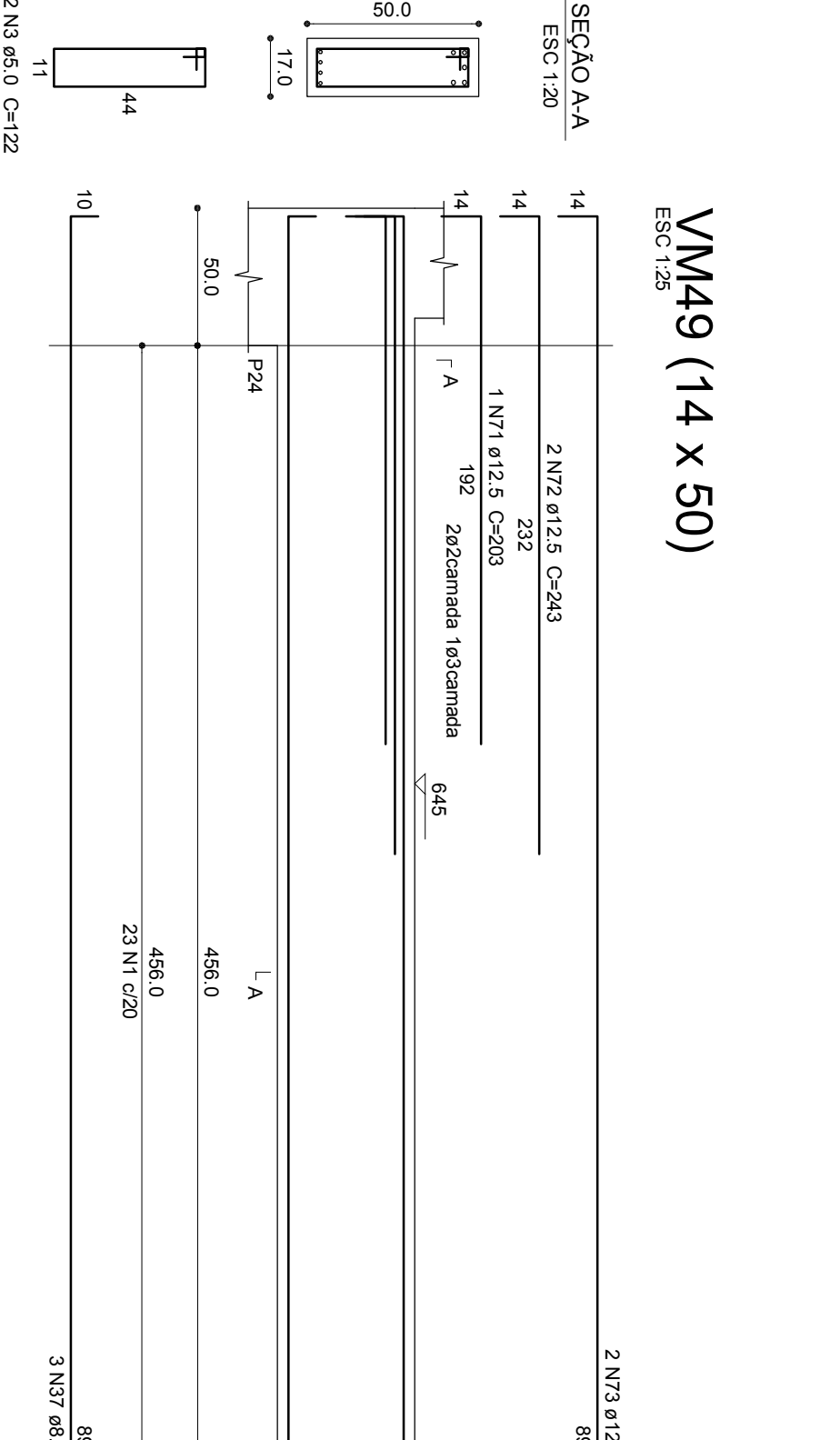
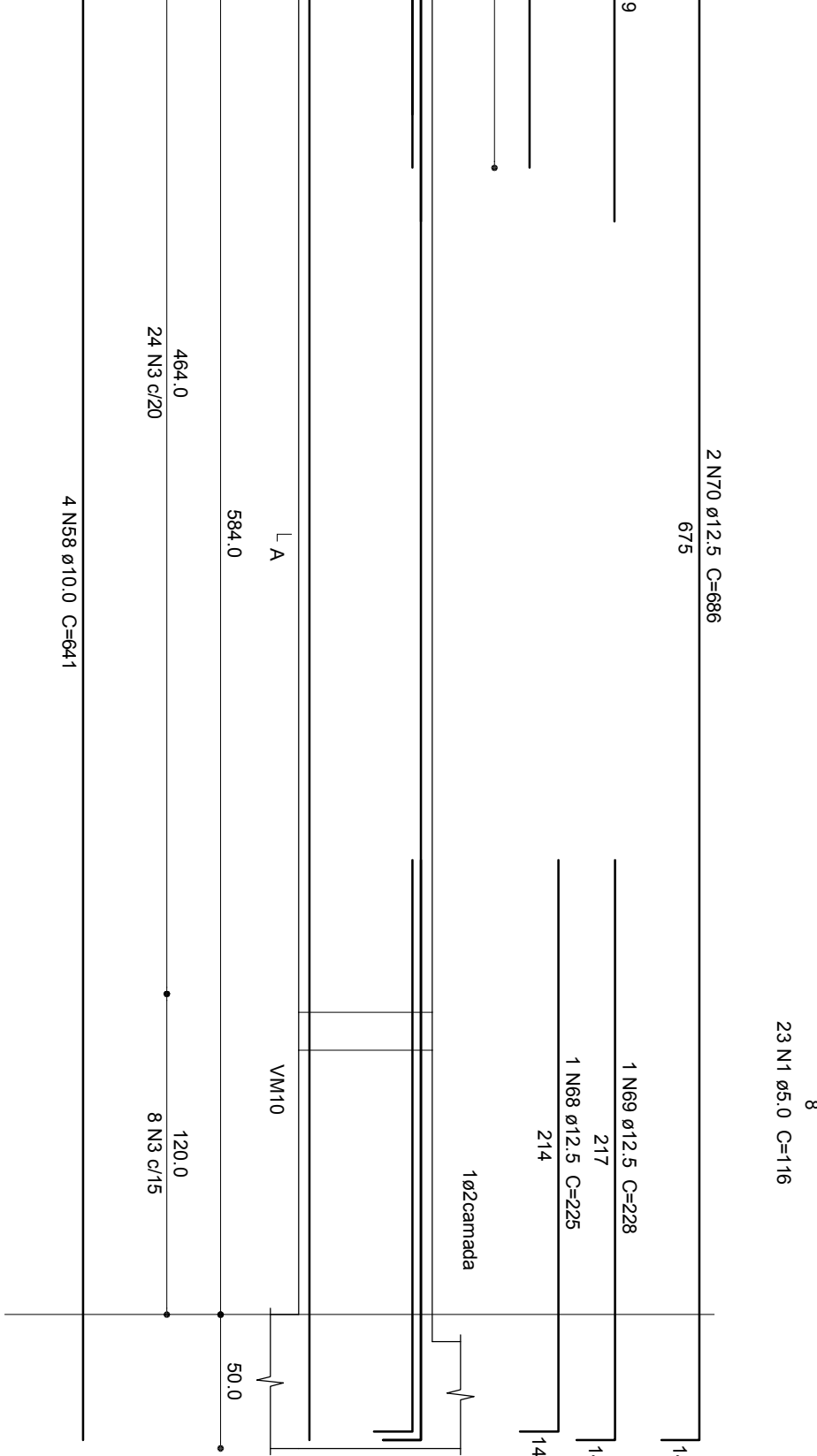
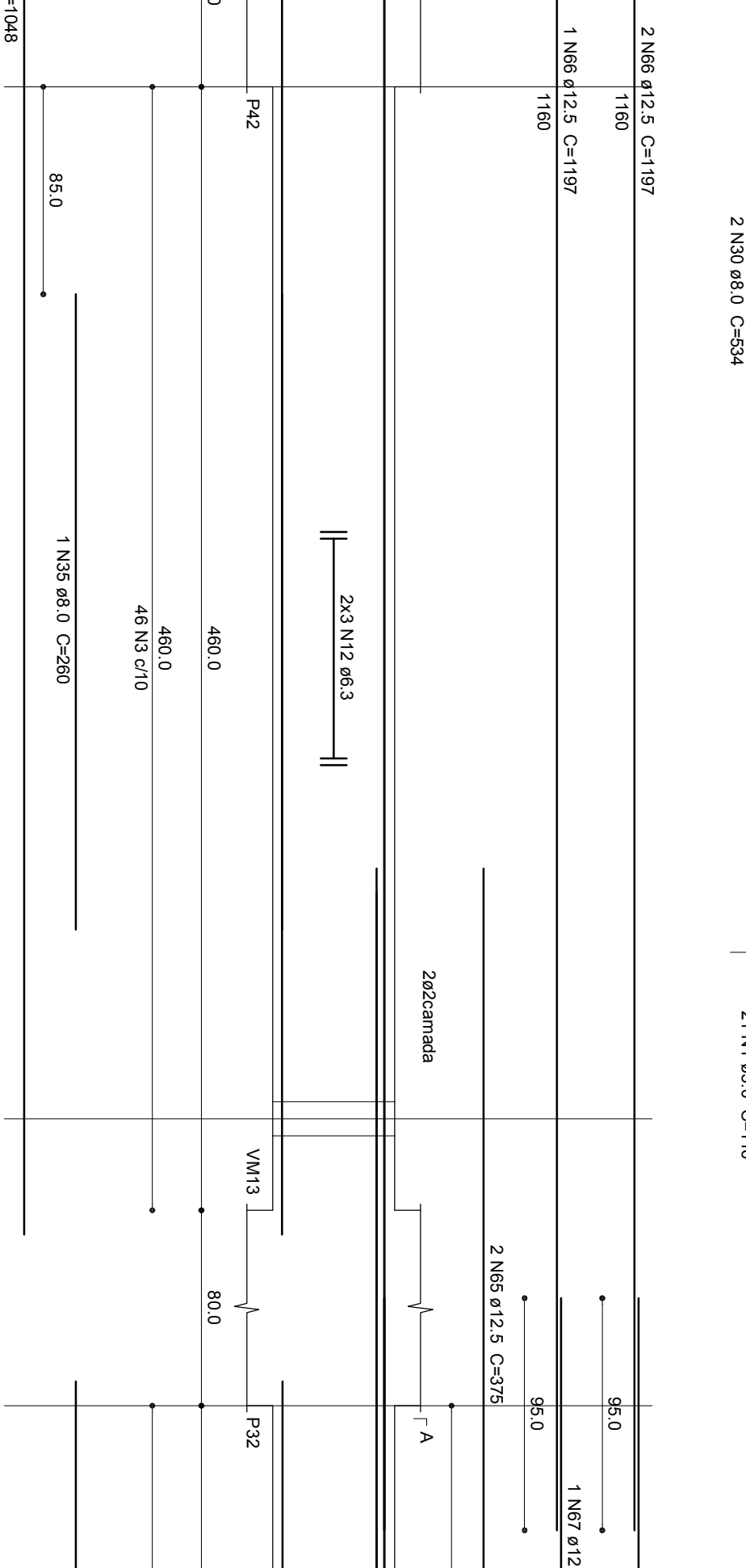
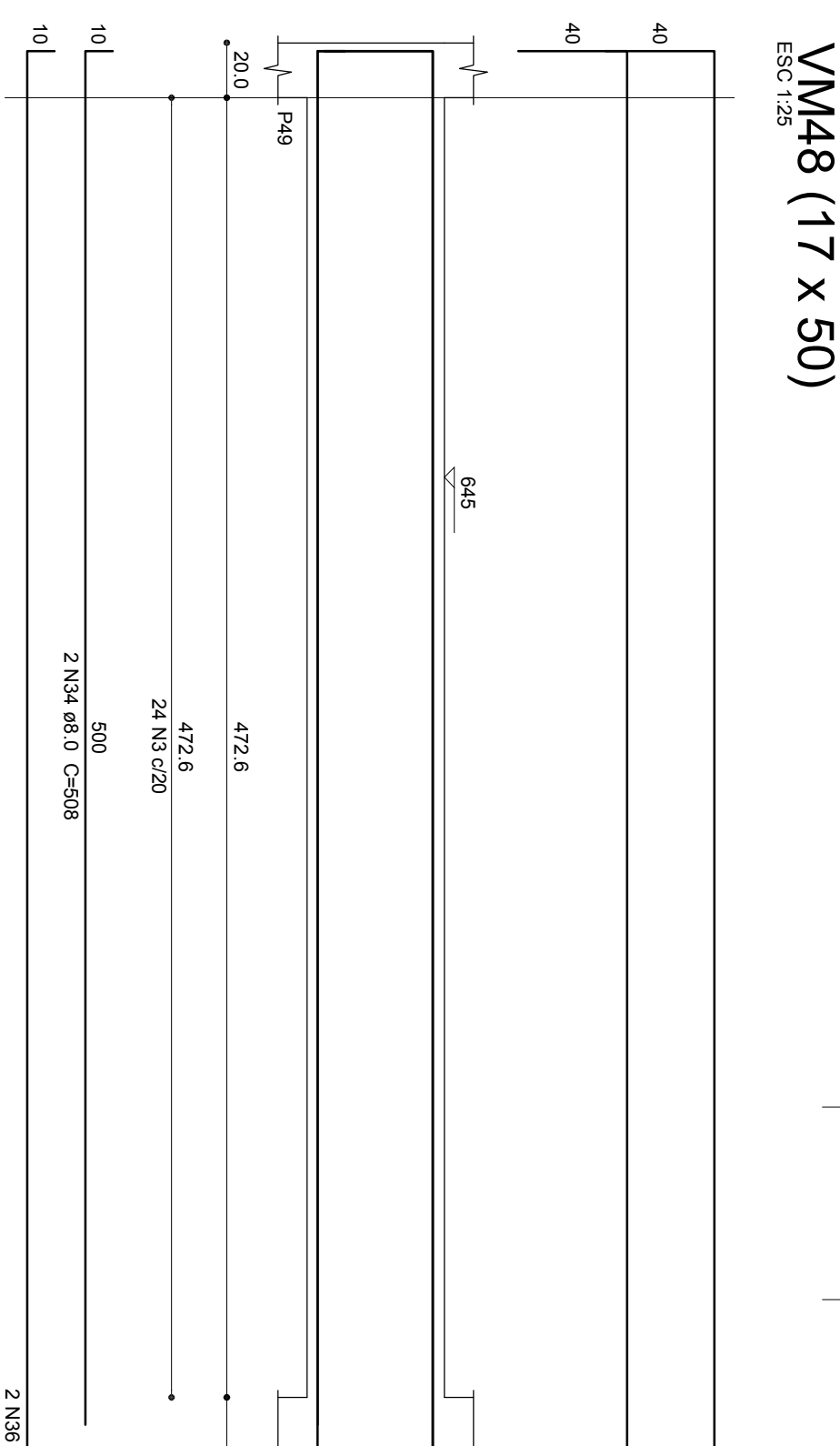
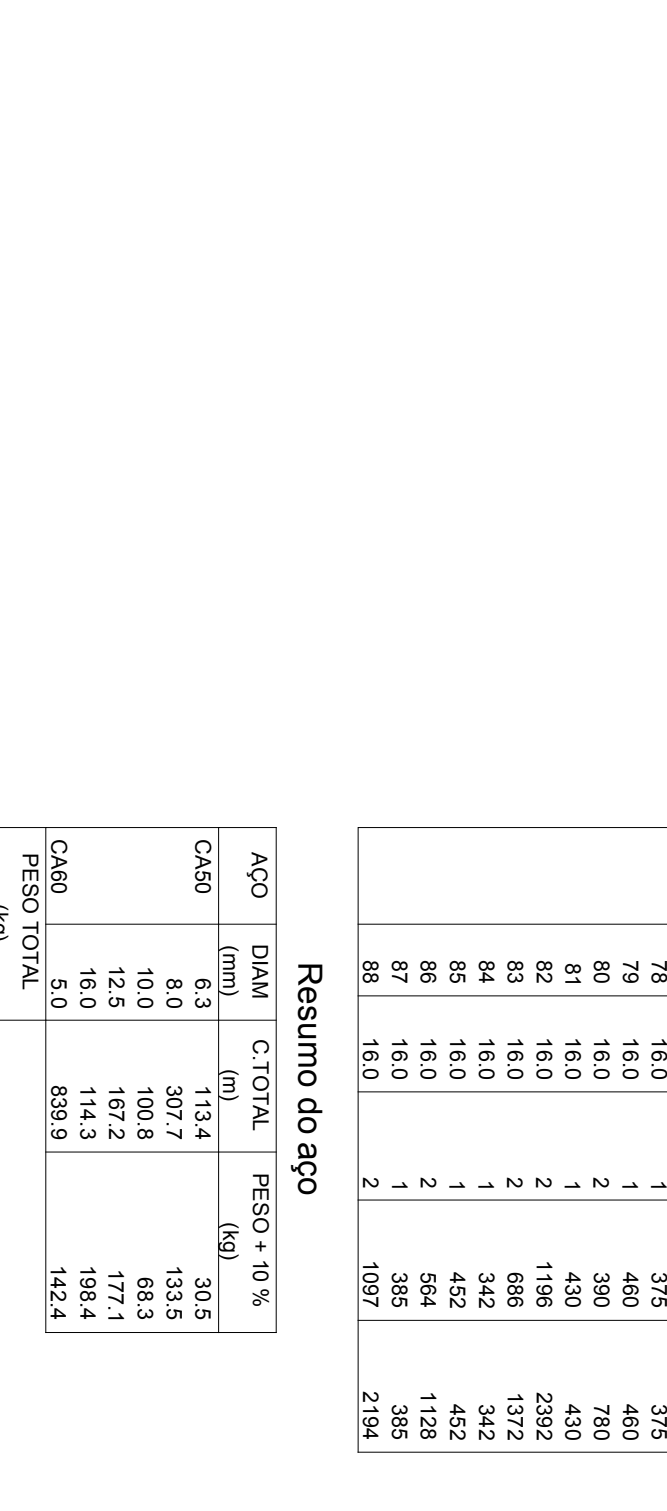
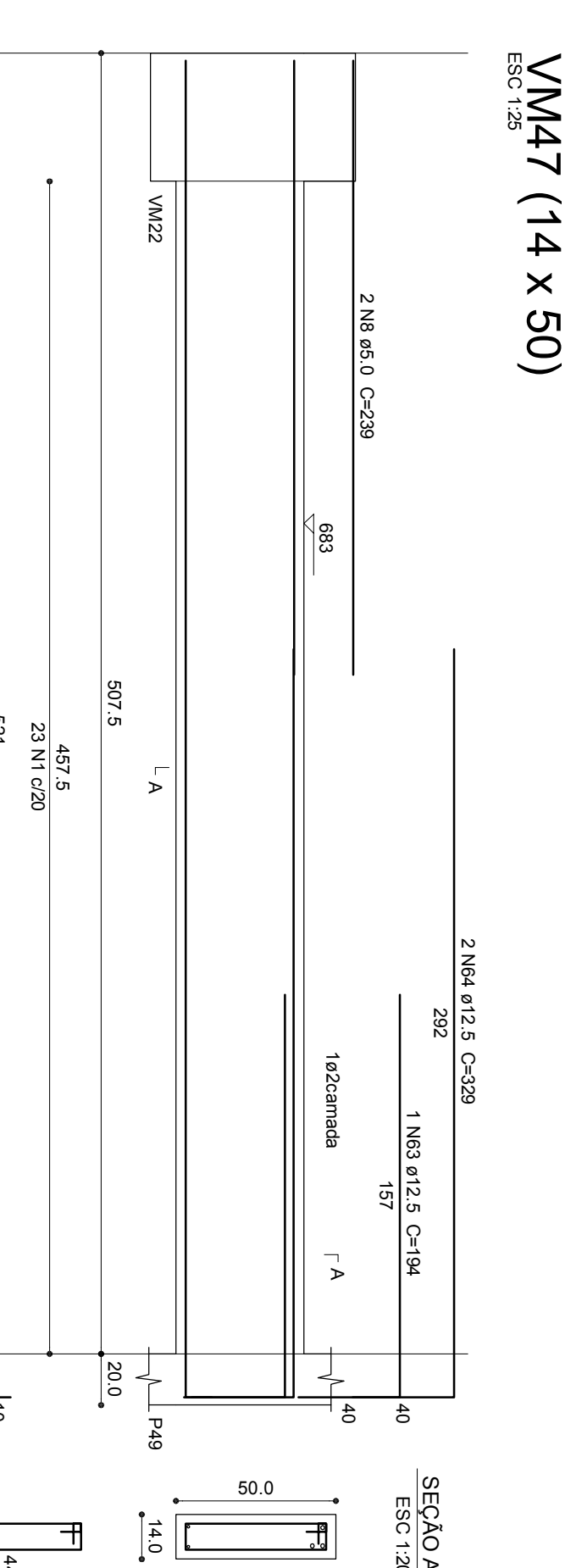
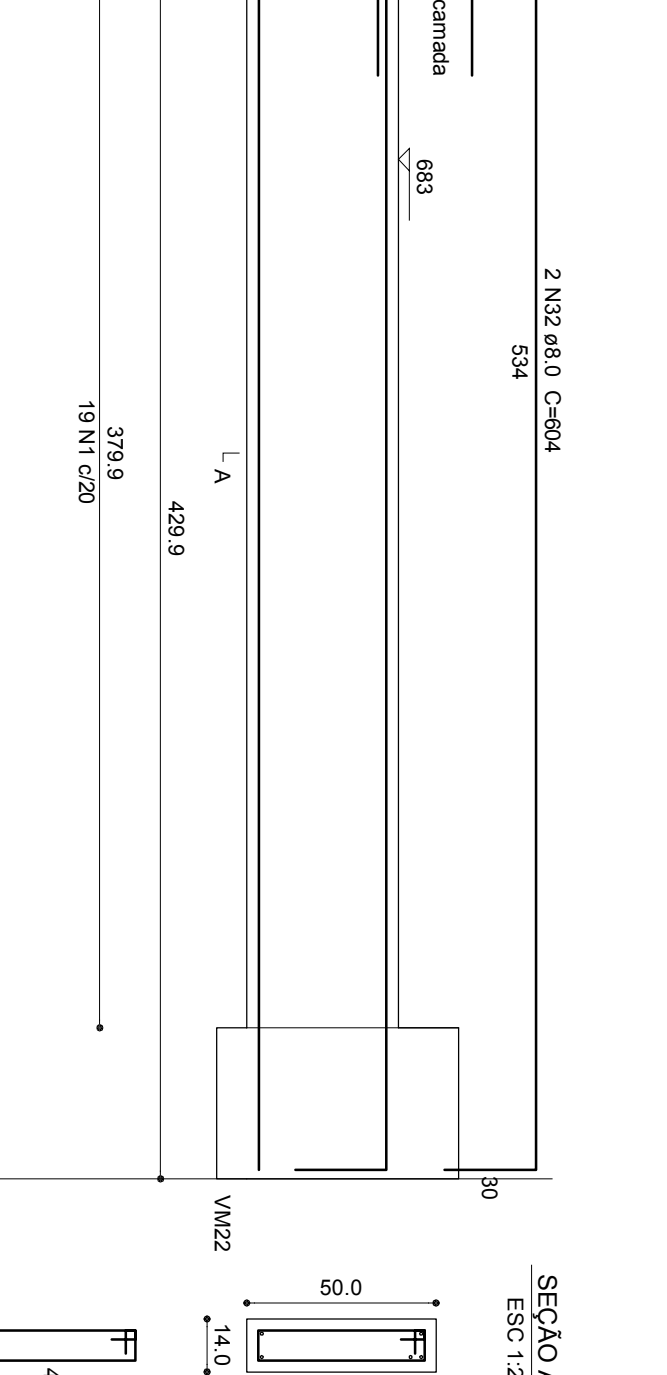
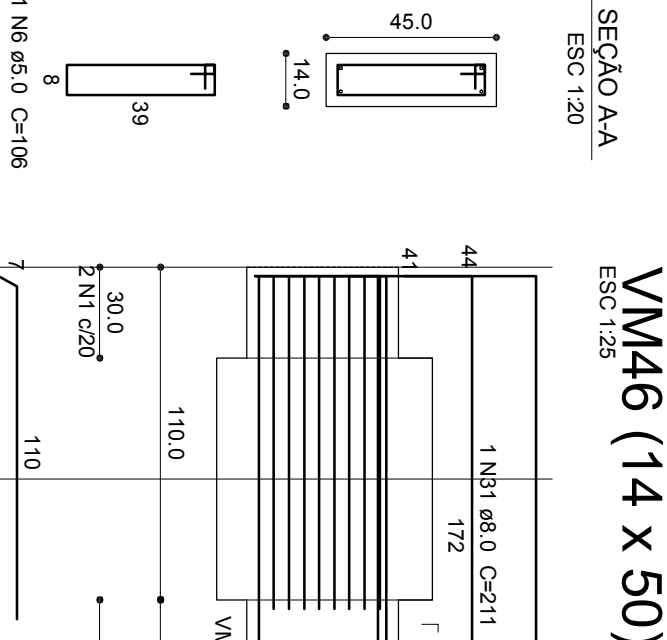
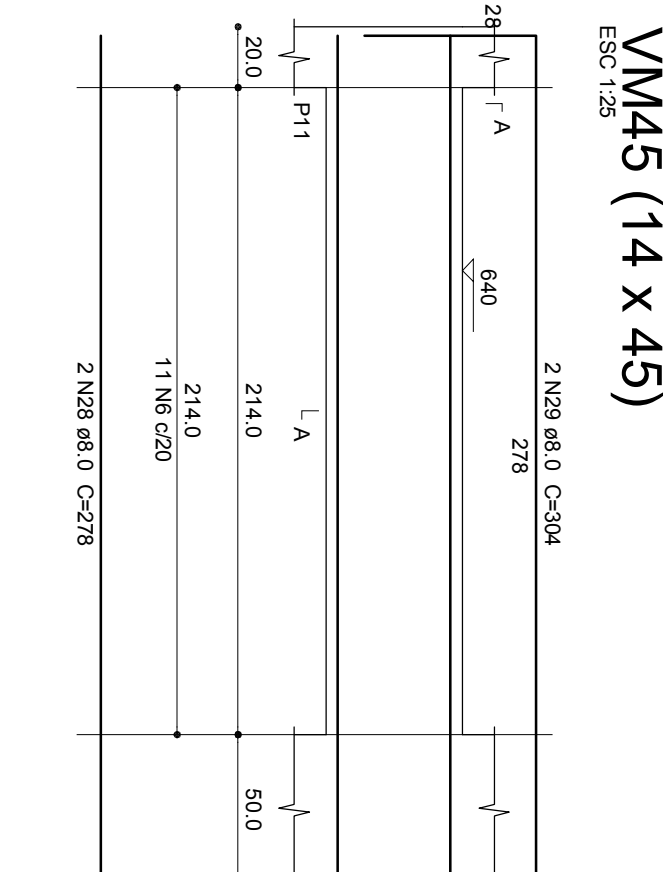
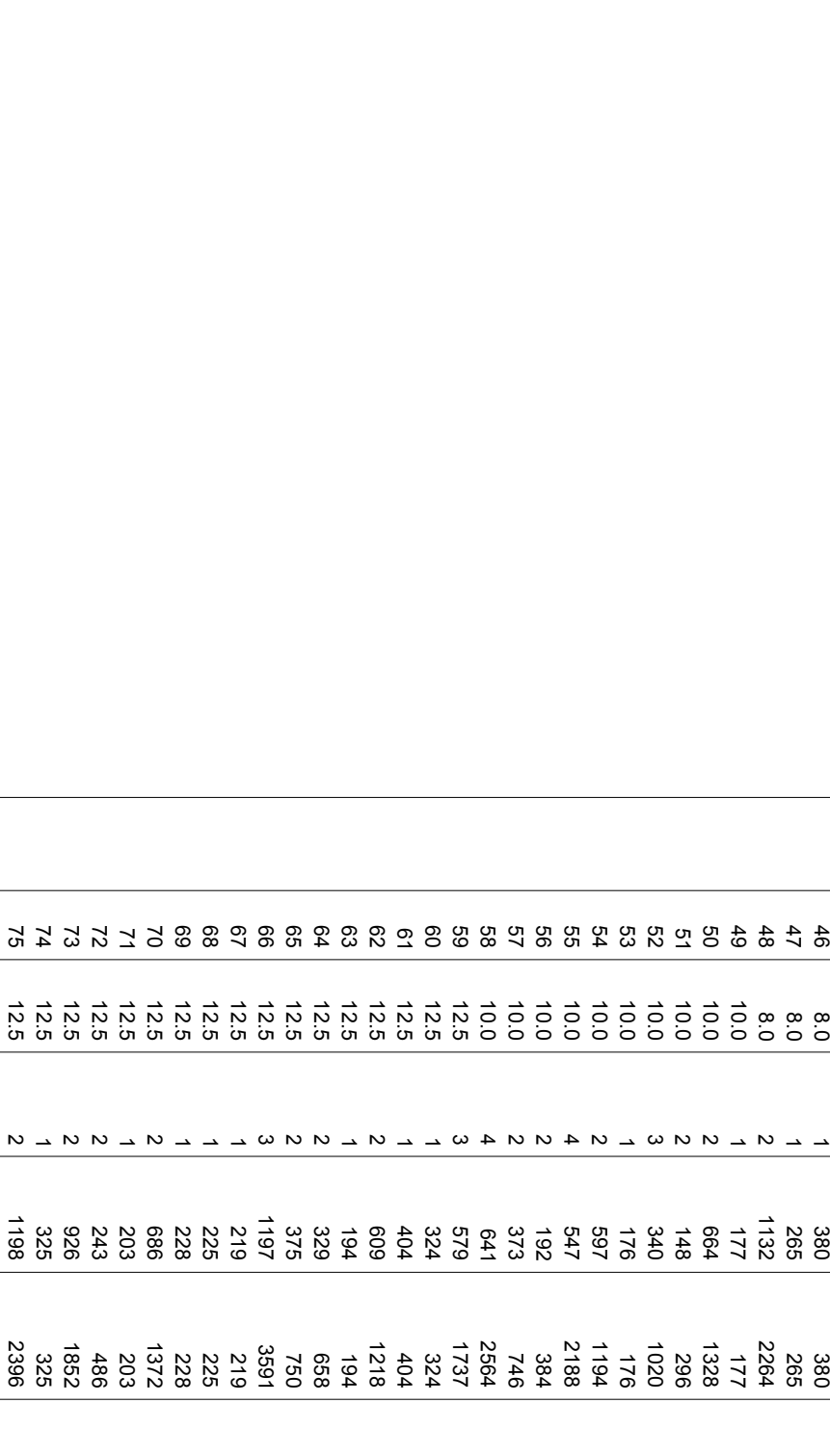
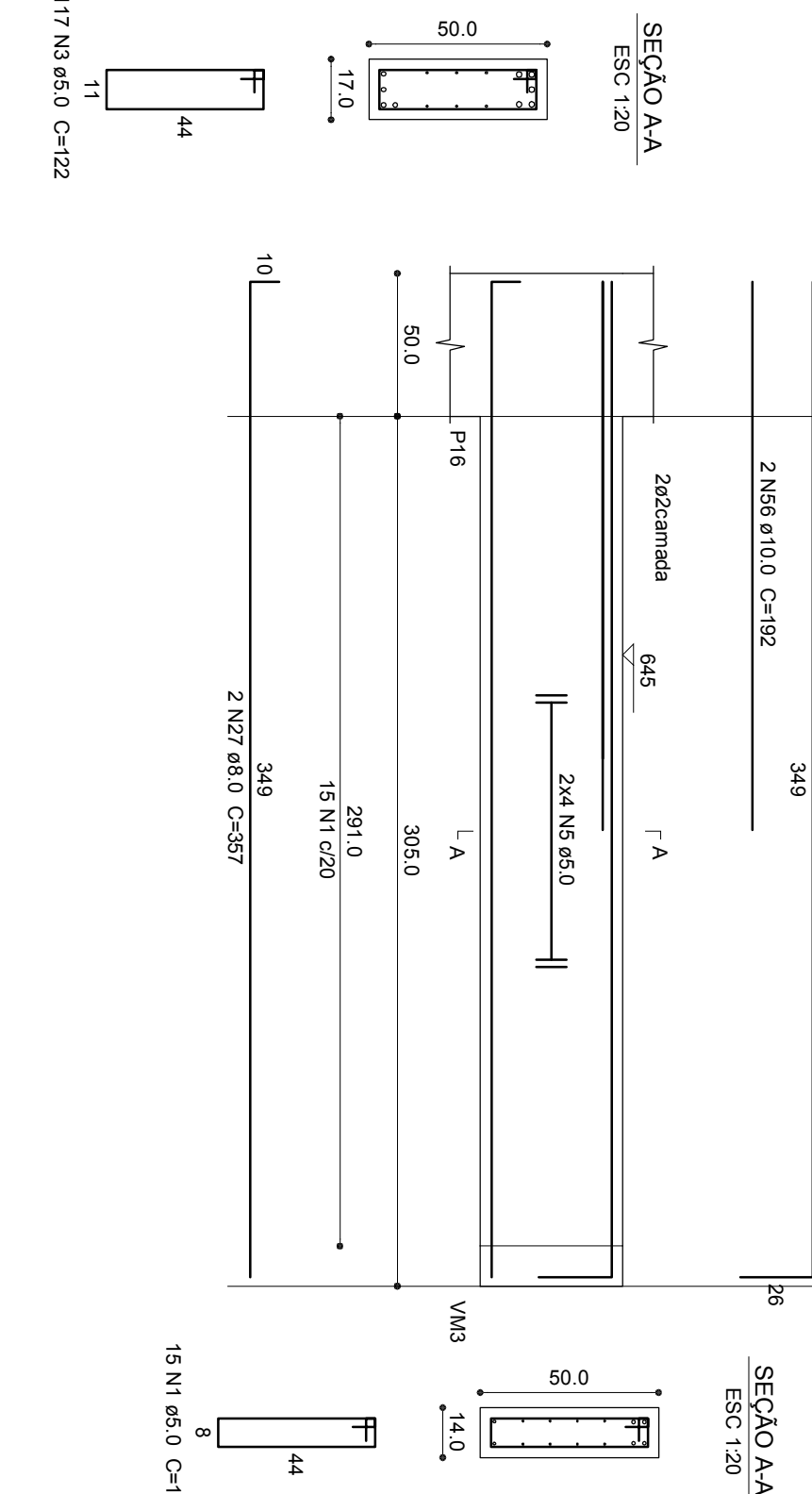
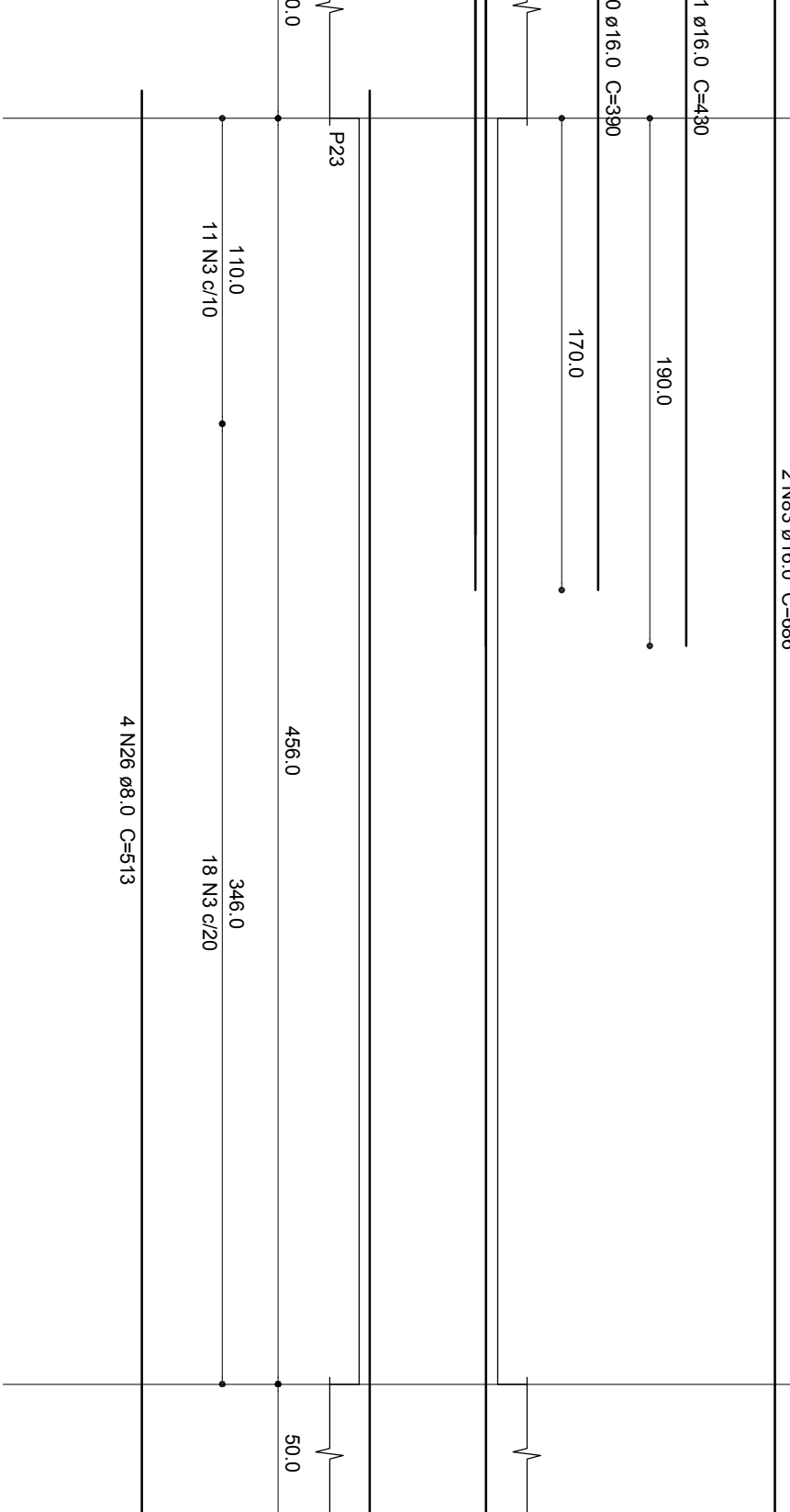
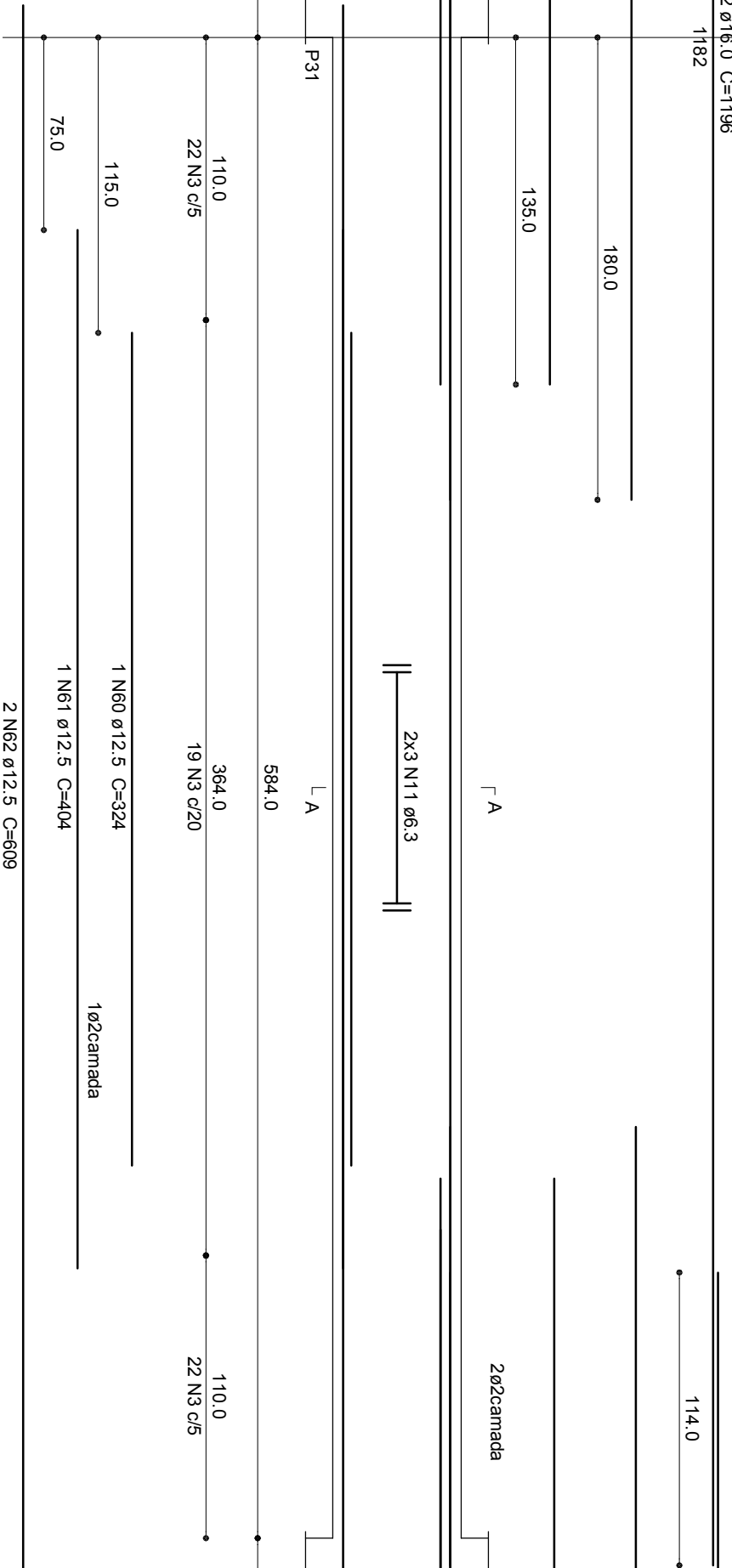
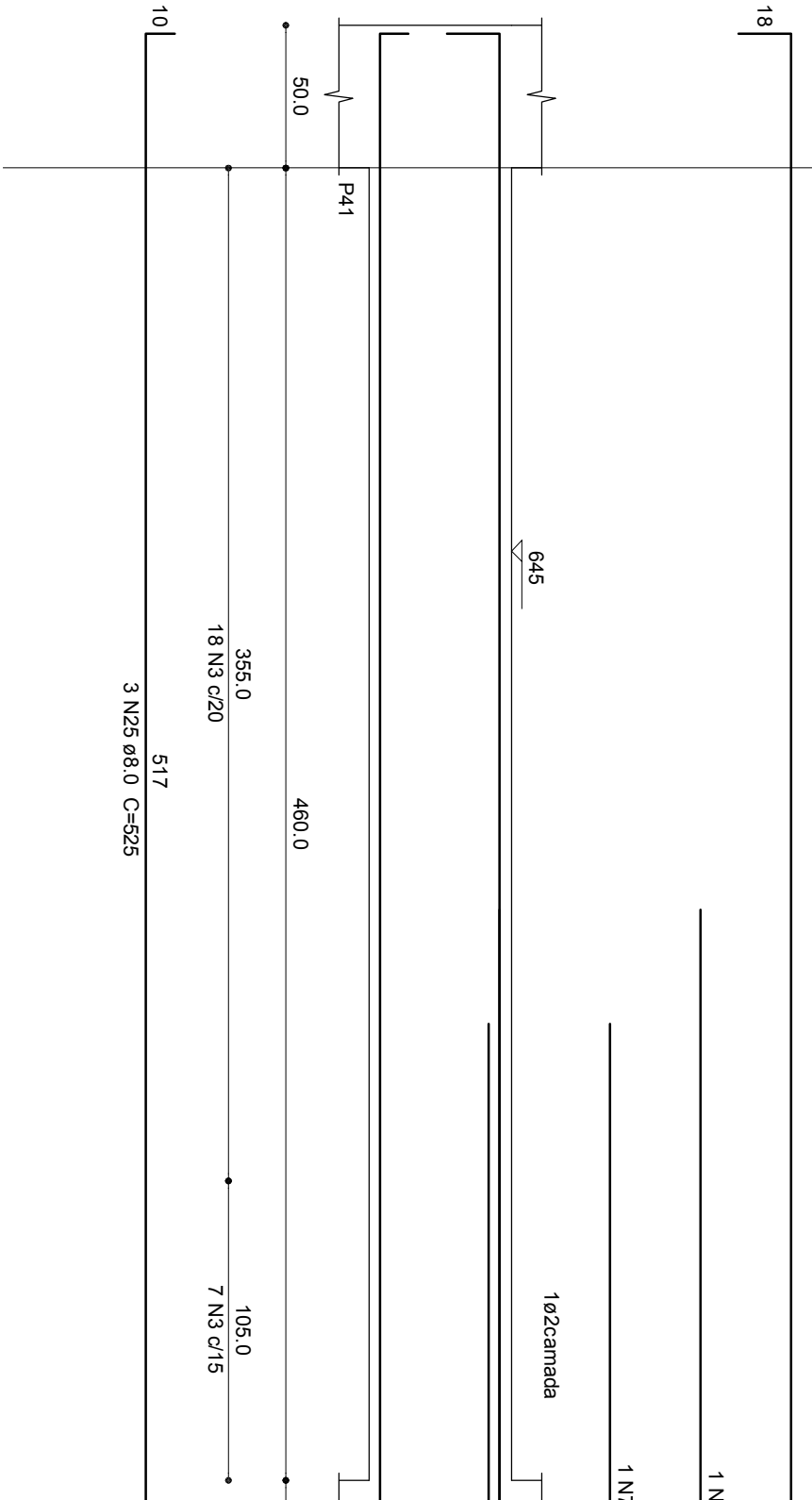
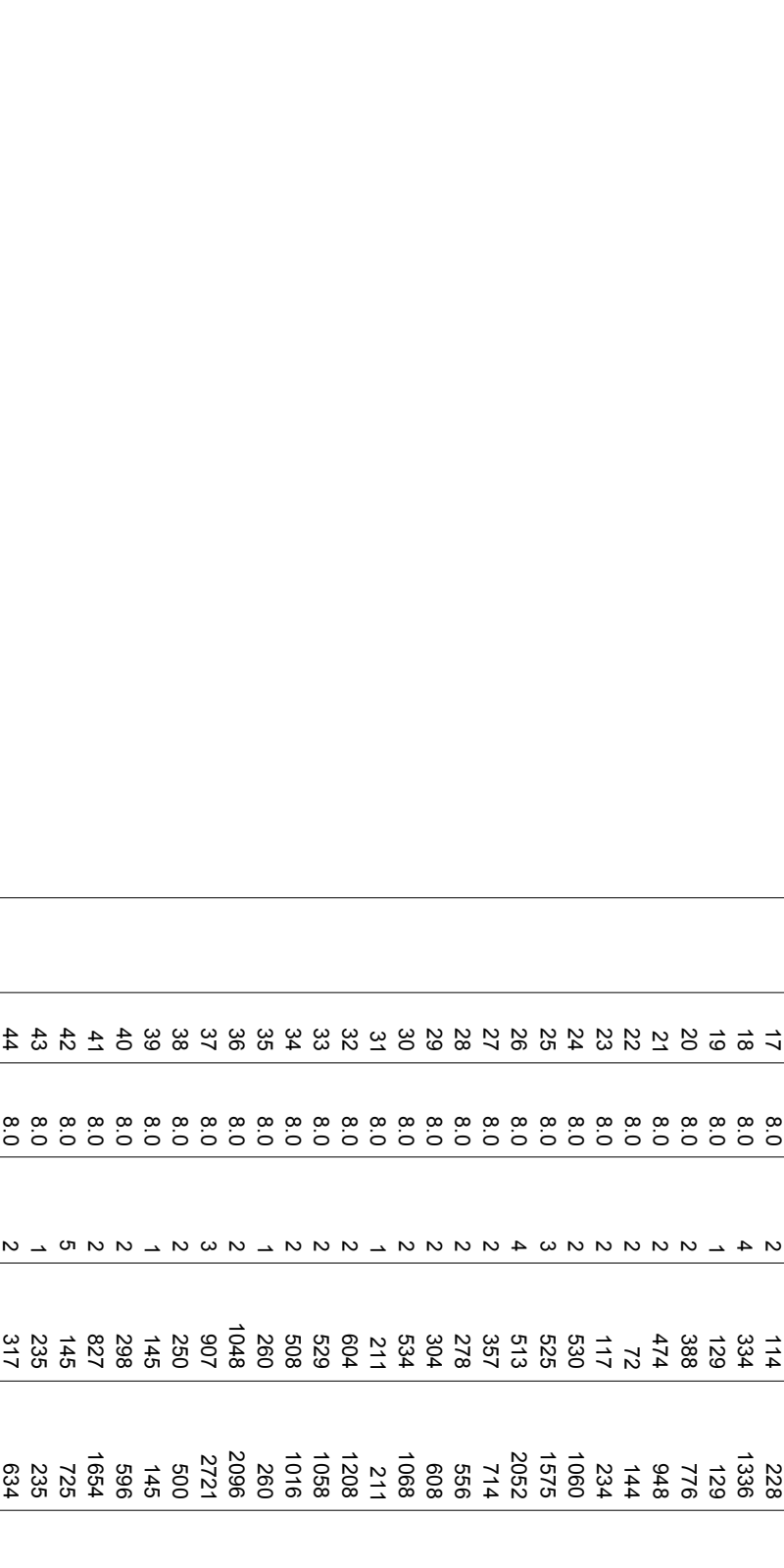
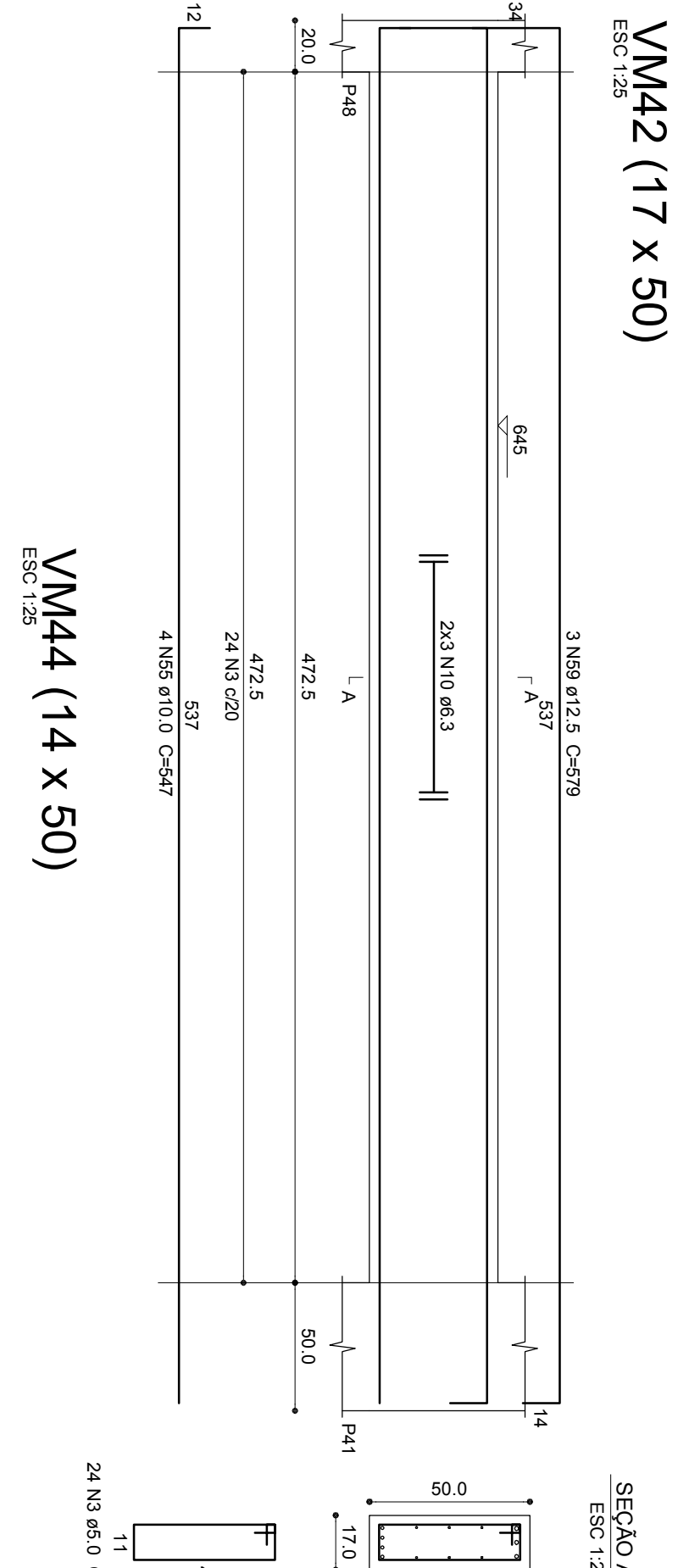
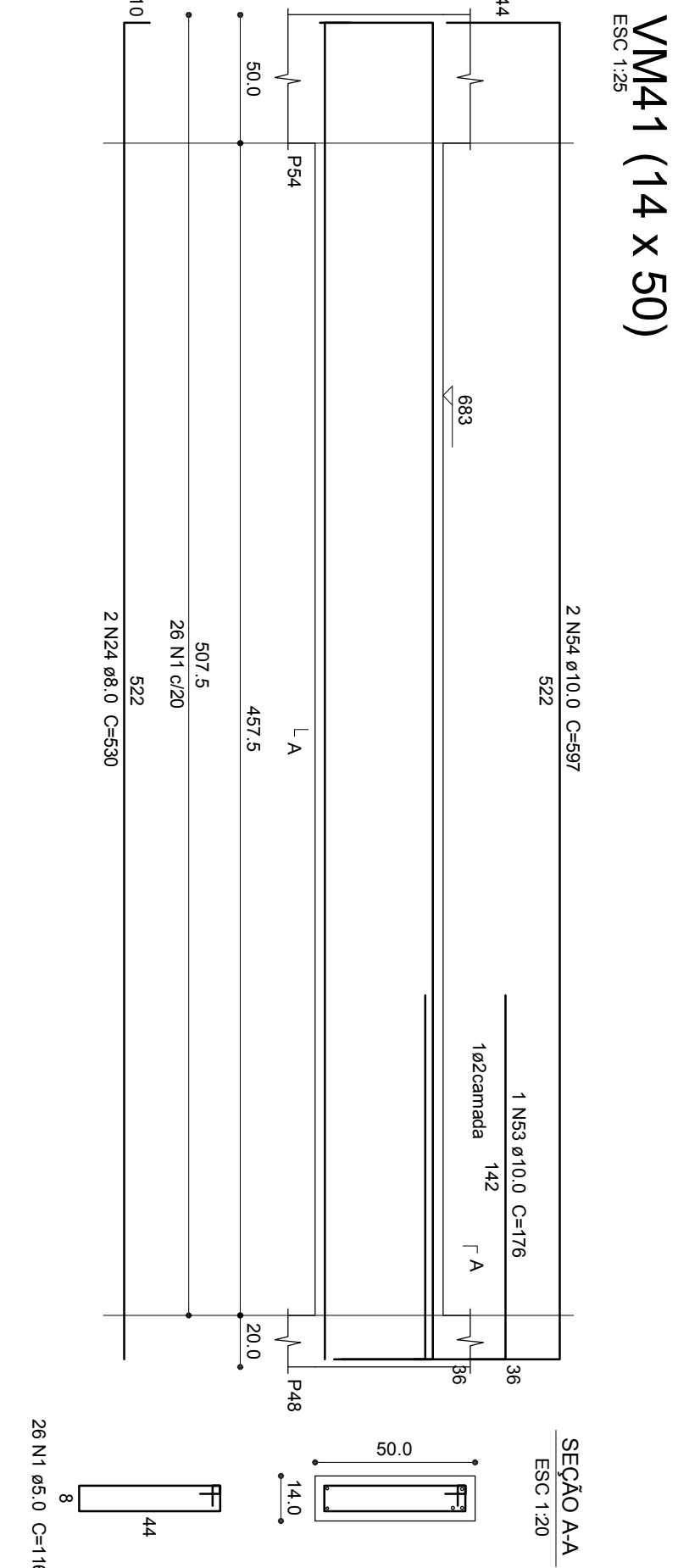
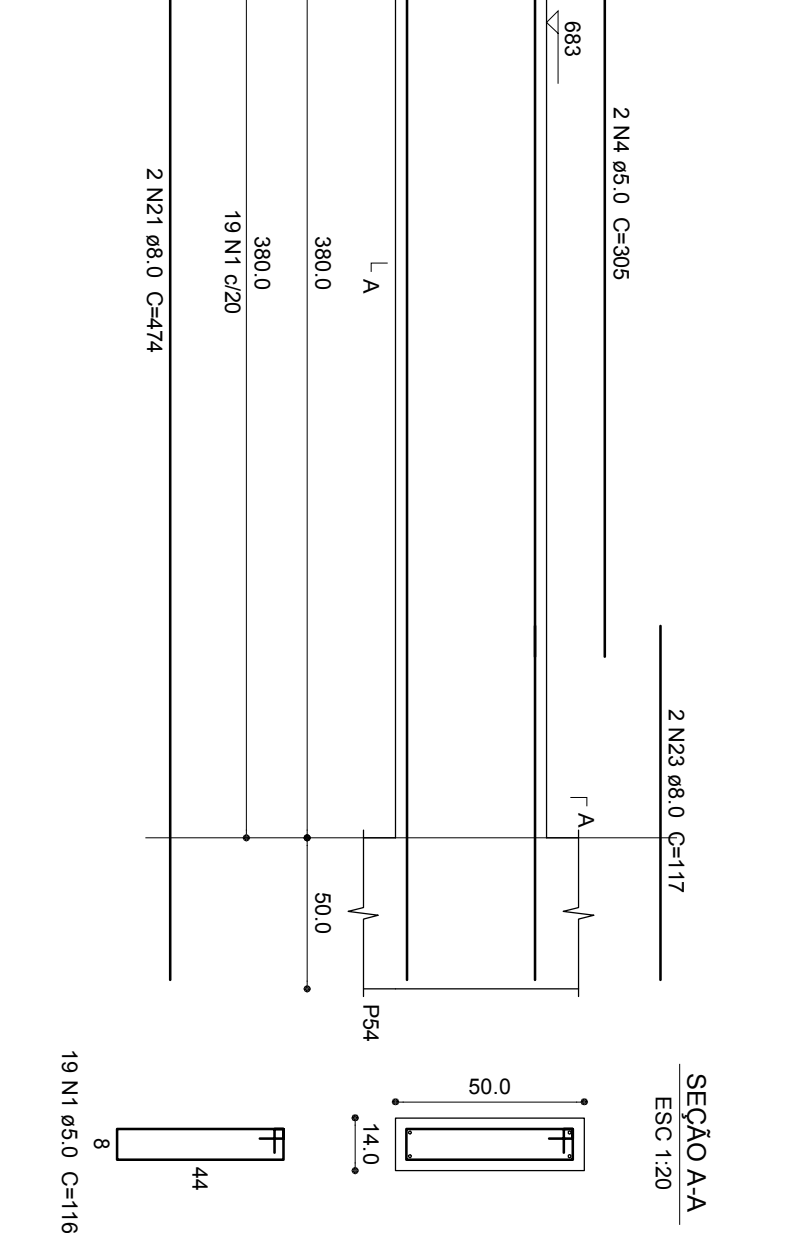
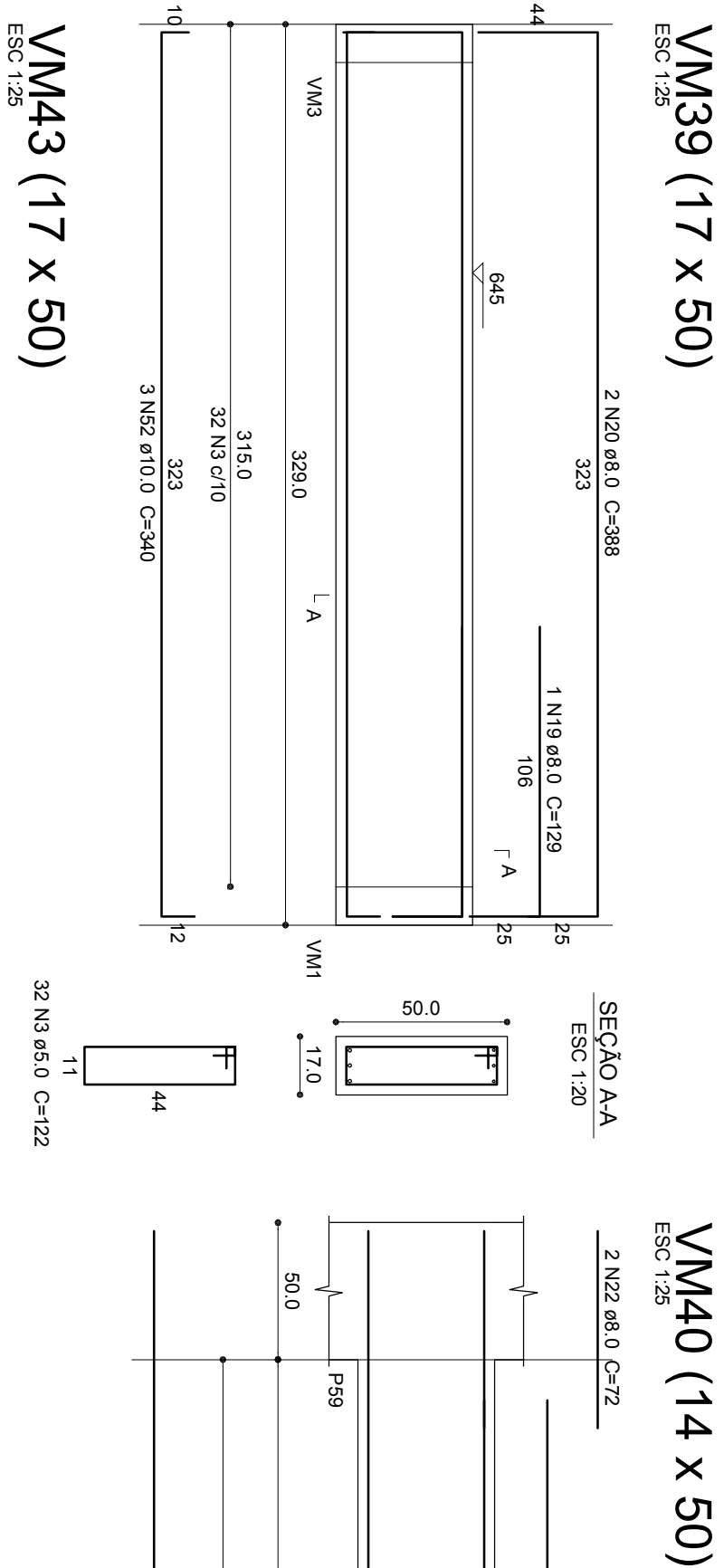
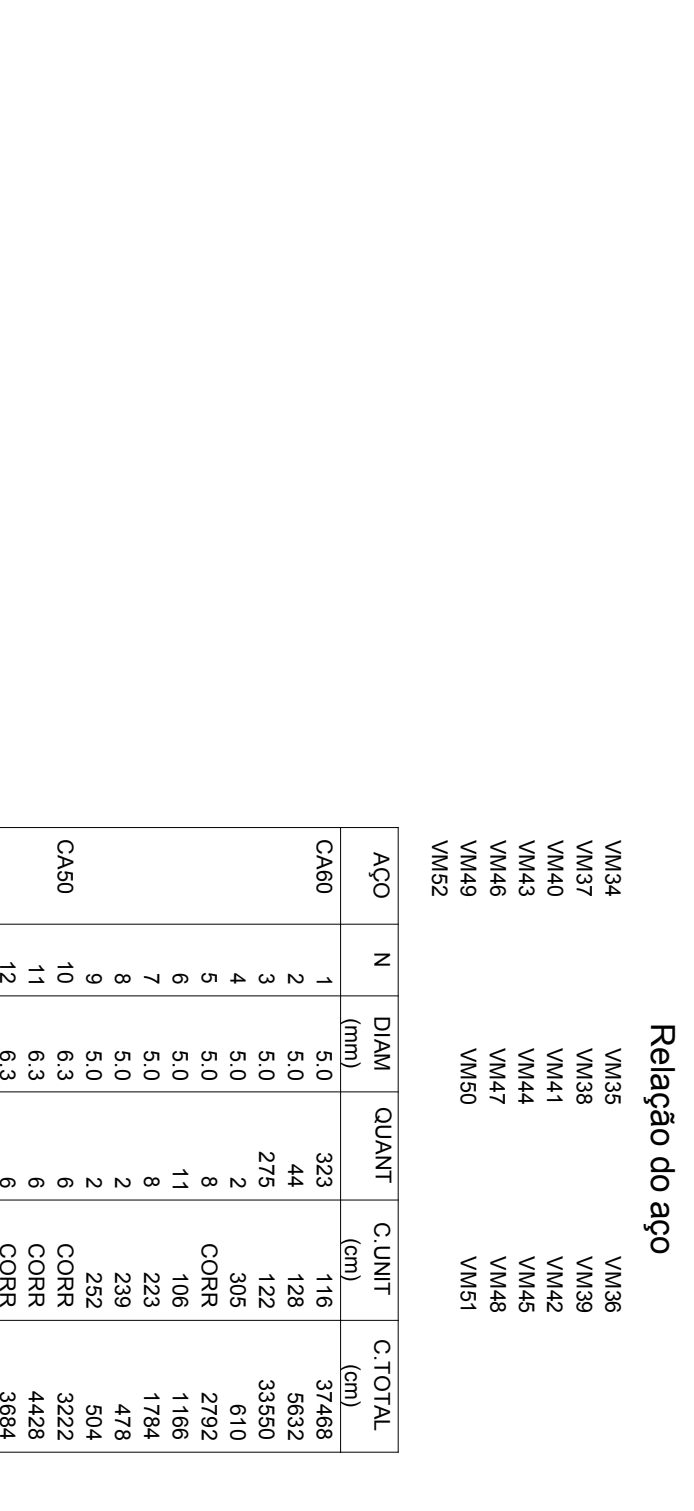
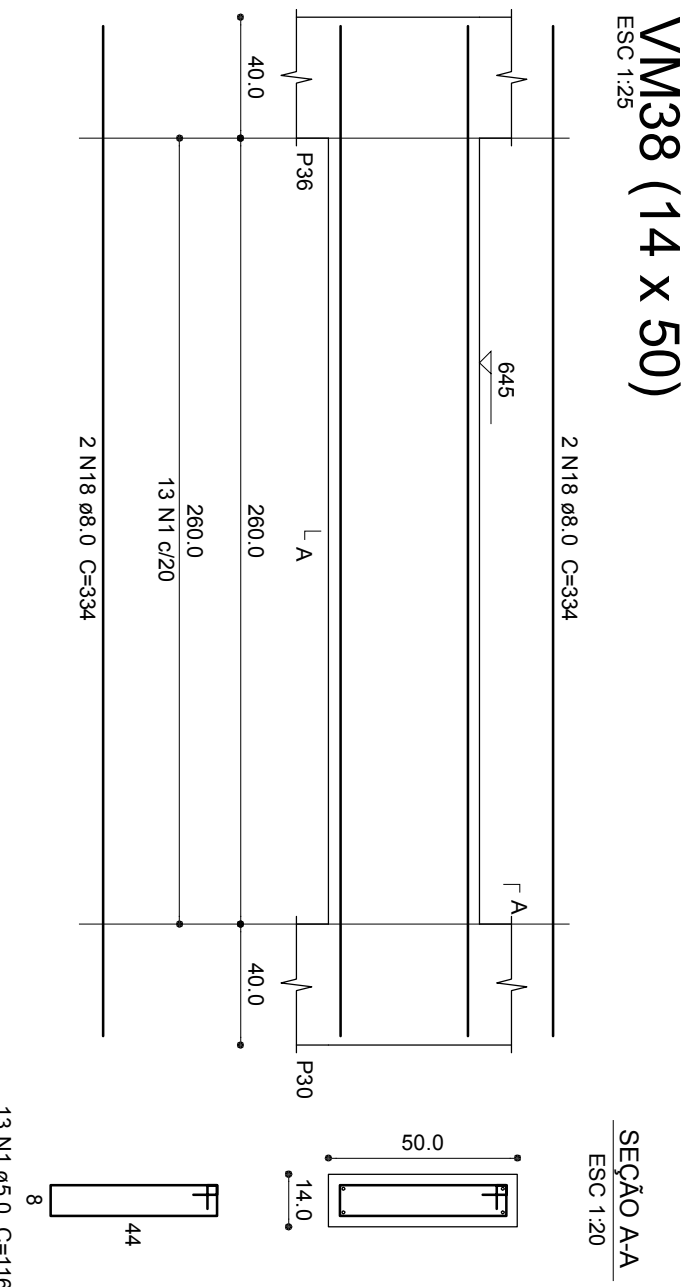
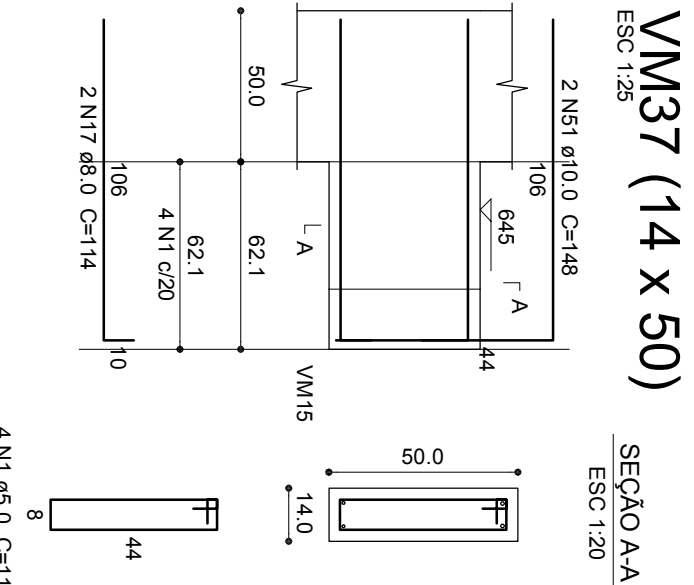
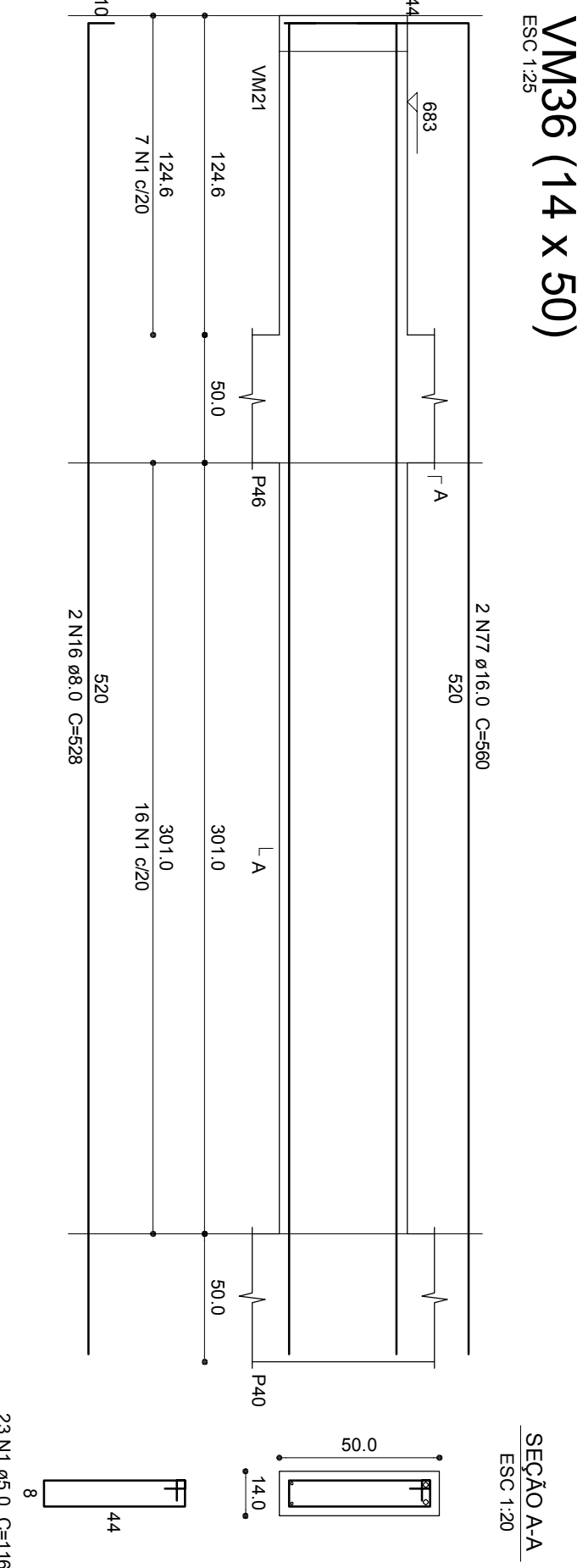
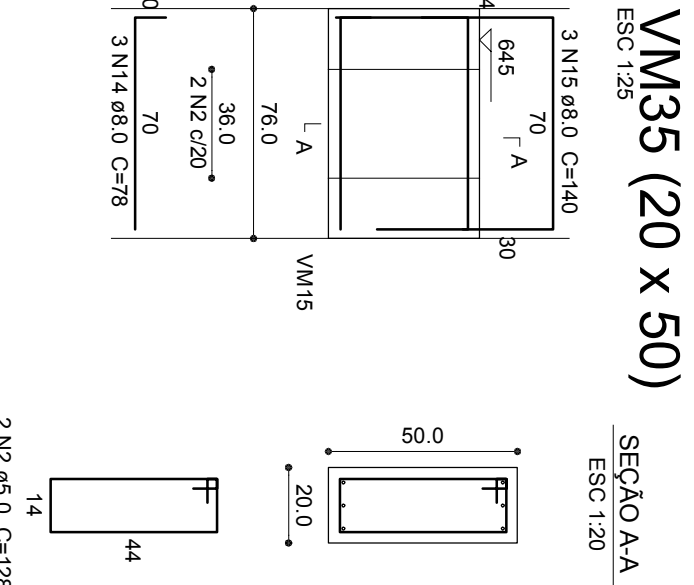
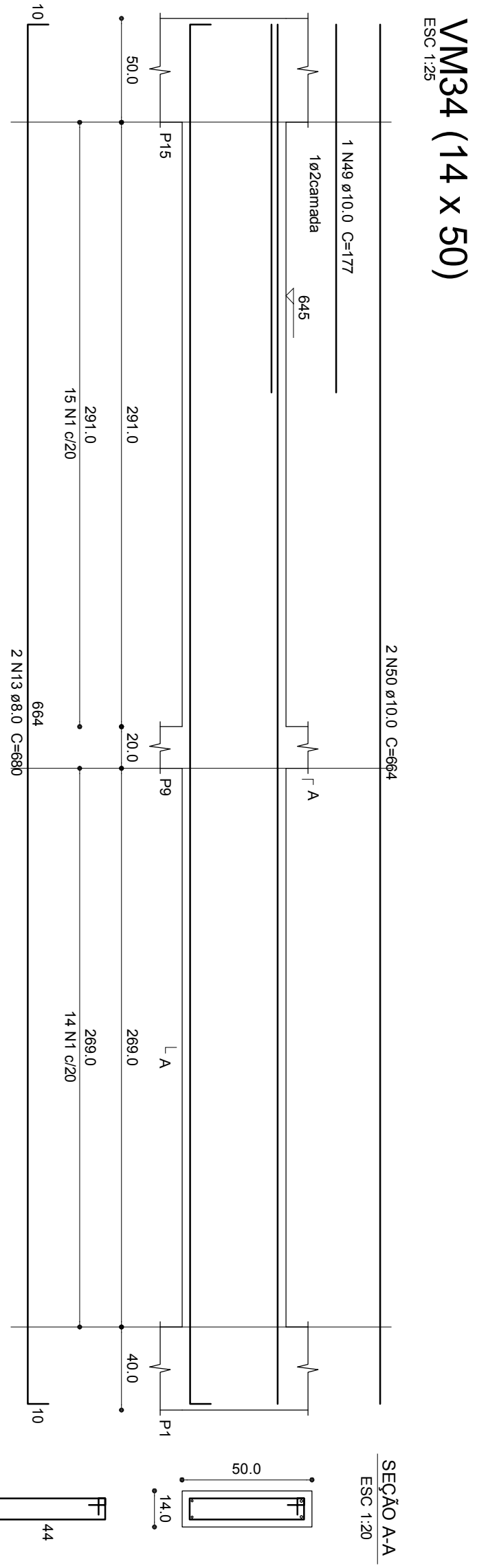
VARI	Religio de ago										VARI
	VAR10	VAR11	VAR12	VAR13	VAR14	VAR15	VAR16	VAR17	VAR18	VAR19	VAR20
CADA	N	D	QUANT	C TOTAL							CADA
				CORR	COM	OTRO	OTRO	OTRO	OTRO	OTRO	
CADA	1	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	1
	2	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	2
	3	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	3
	4	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	4
	5	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	5
	6	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	6
	7	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	7
	8	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	8
	9	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	9
	10	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	10
	11	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	11
	12	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	12
	13	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	13
	14	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	14
	15	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	15
	16	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	16
	17	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	17
	18	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	18
	19	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	19
	20	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	20
CADA	1	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	1
	2	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	2
	3	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	3
	4	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	4
	5	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	5
	6	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	6
	7	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	7
	8	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	8
	9	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	9
	10	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	10
	11	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	11
	12	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	12
	13	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	13
	14	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	14
	15	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	15
	16	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	16
	17	5.0	4.8	1.0	4.8	1.0	4.8	1.0	4.8	1.0	17

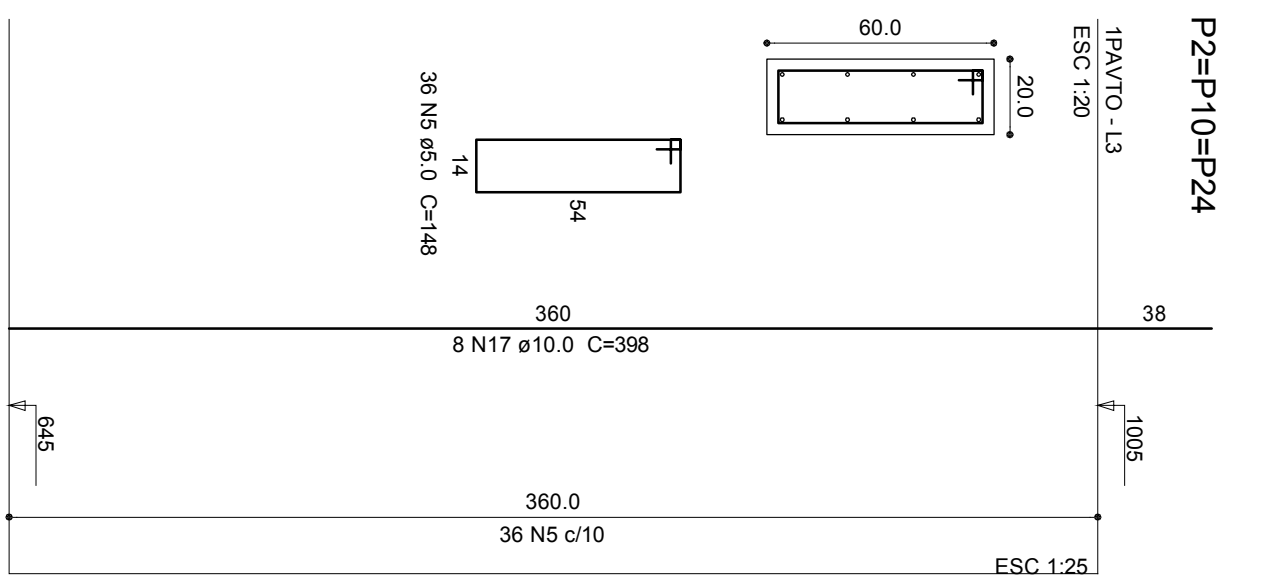
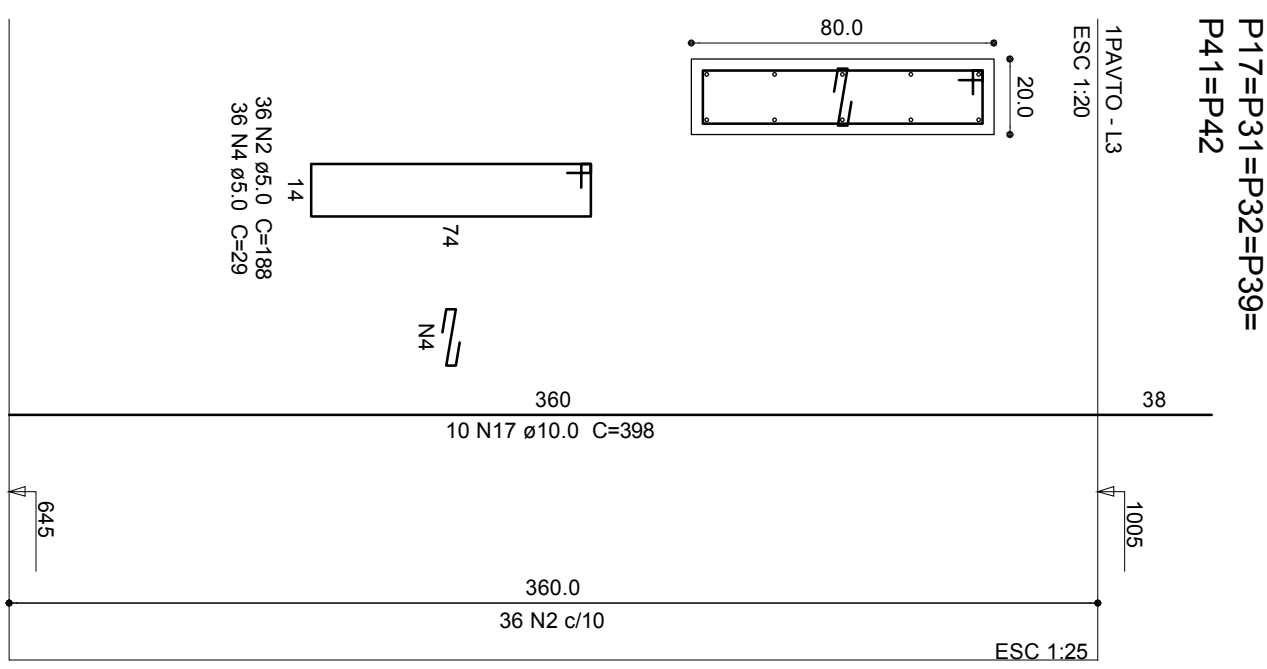
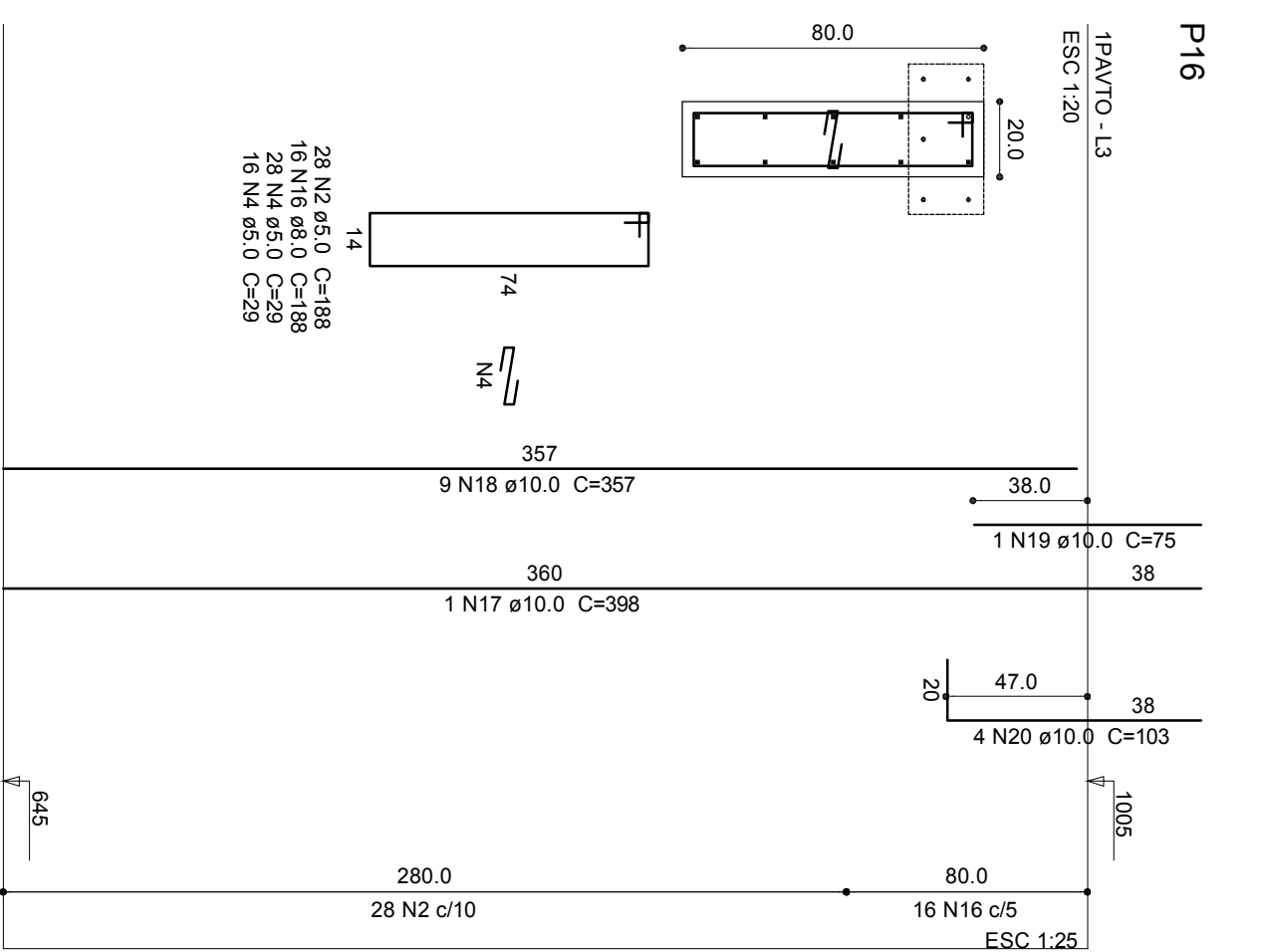
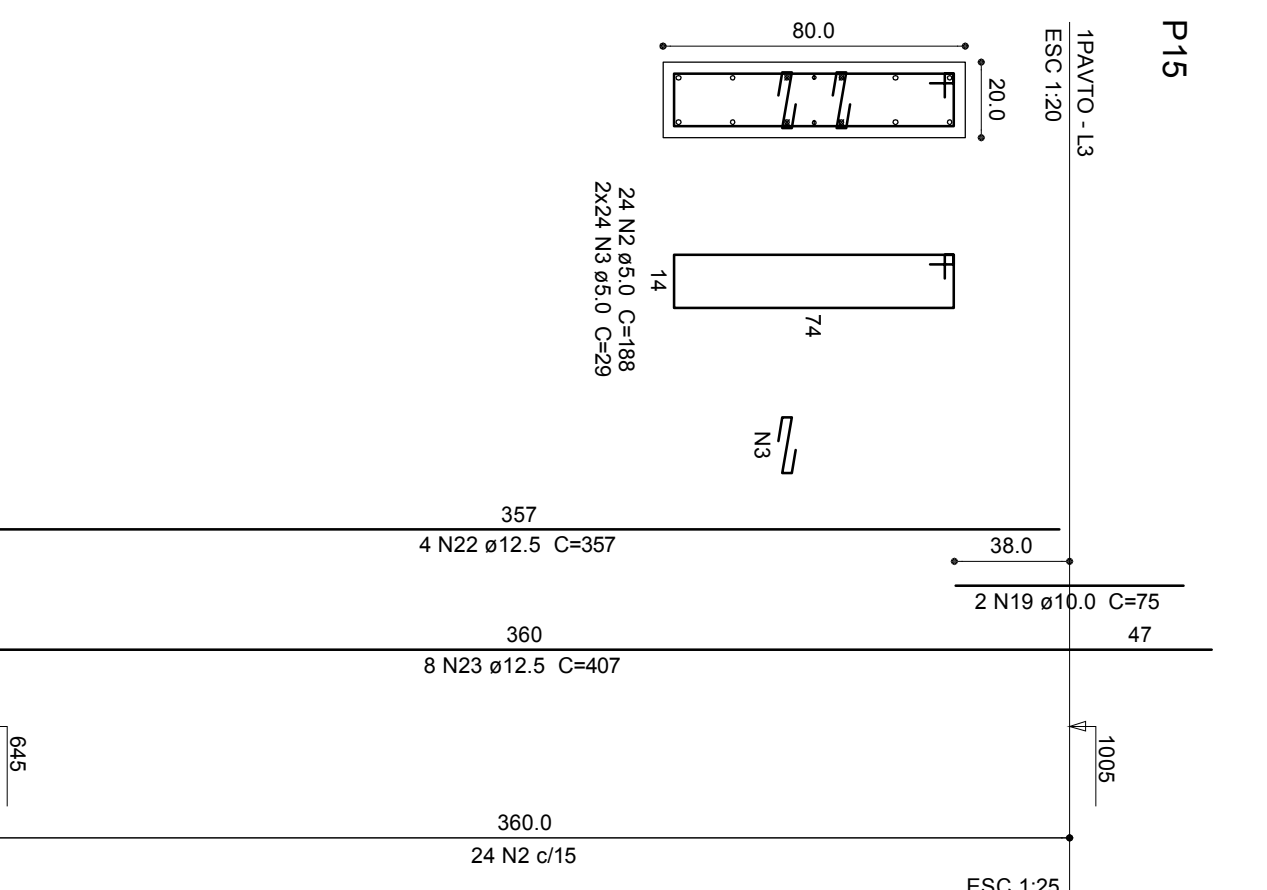
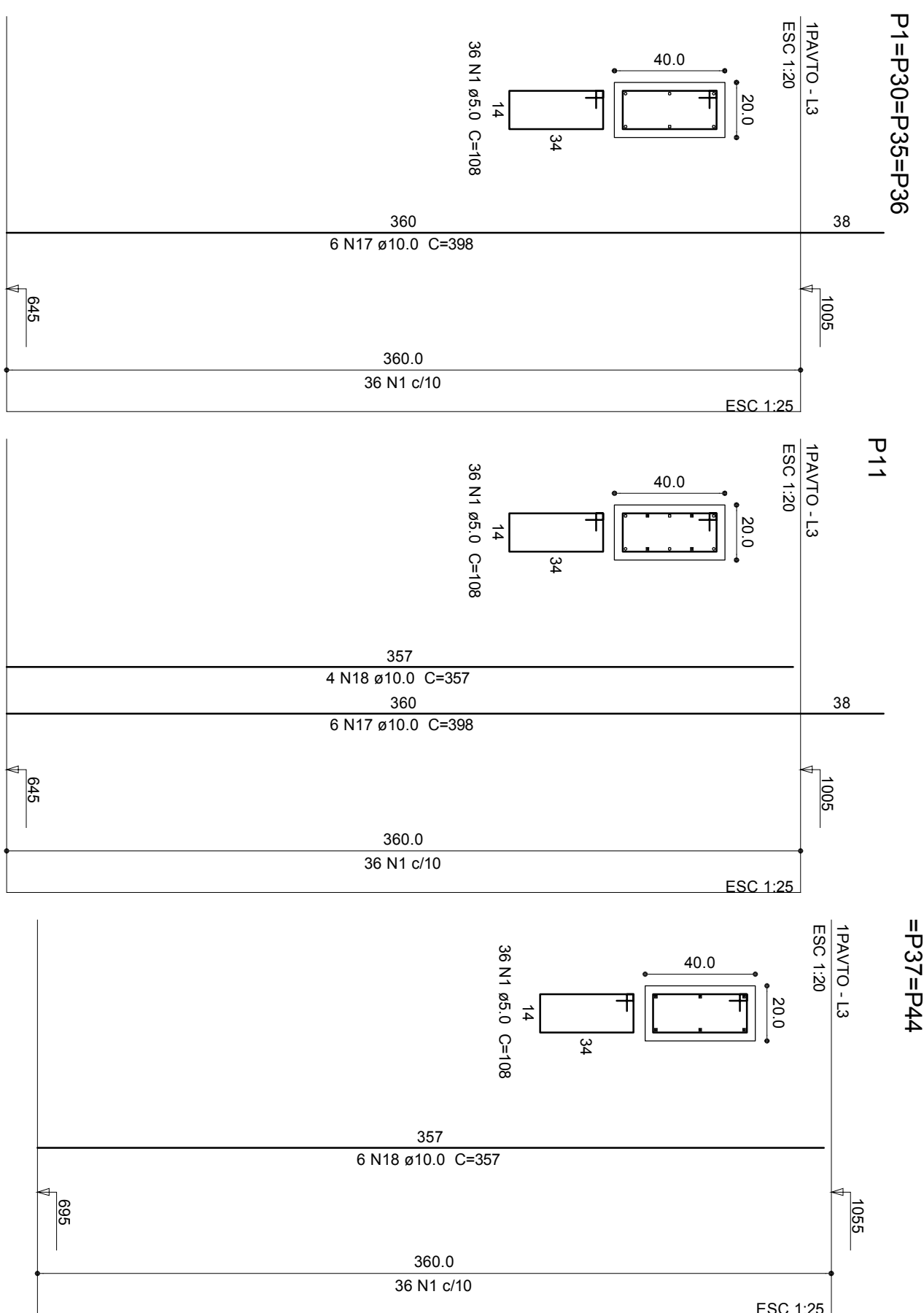
Resumo do aço

AÇO	DIAM. (mm)	C. TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	292.2	126.8
	10.0	137.9	93.5
	12.5	107.7	114.1
CA60	16.0	99.7	103.5
	5.0	811.2	137.5
PESO TOTAL			
CA50	437.0		
CA60	137.5		

Volume de concreto (C-25) = 8.71 m³
 Área de arma = 132.32 m²

[illegible]

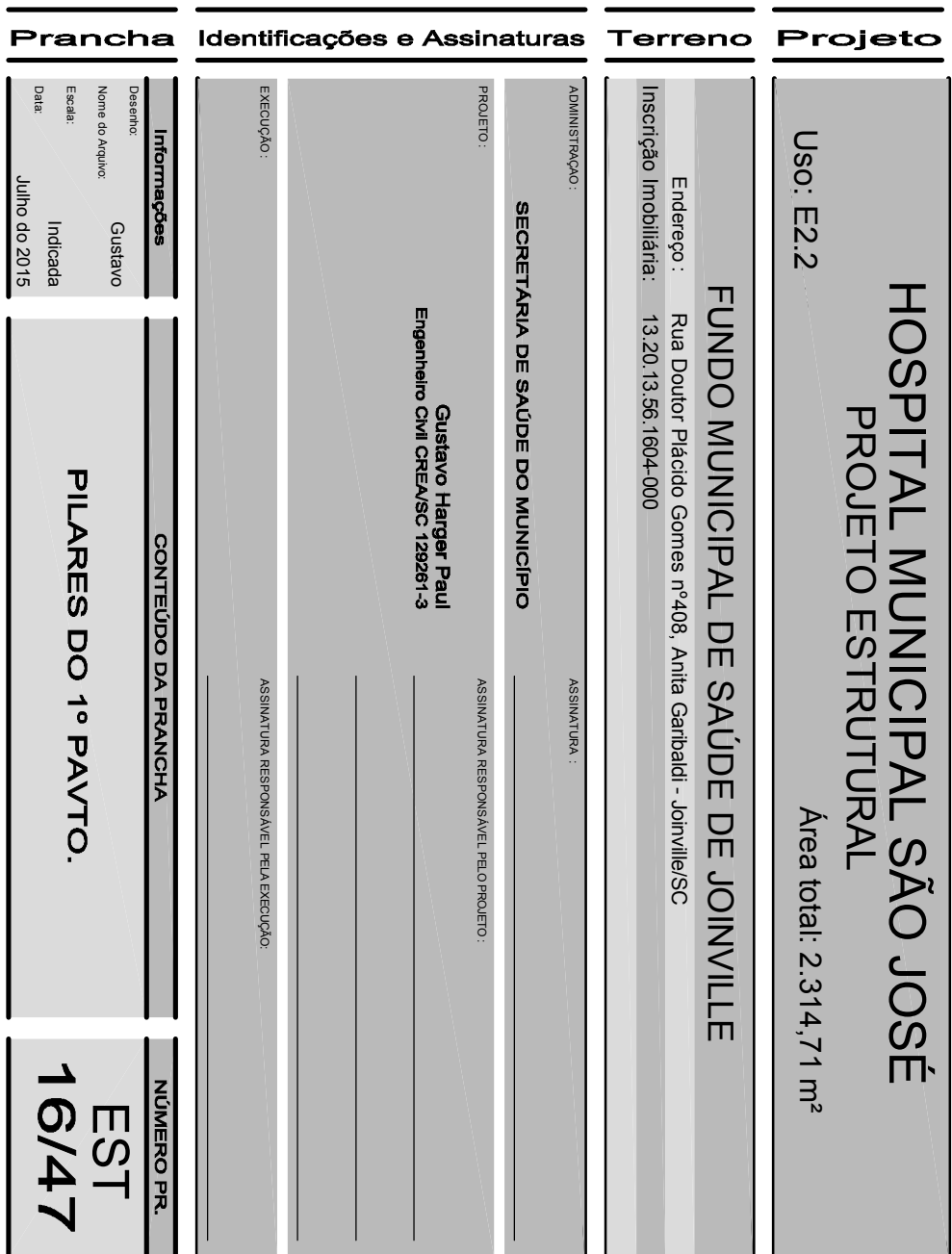
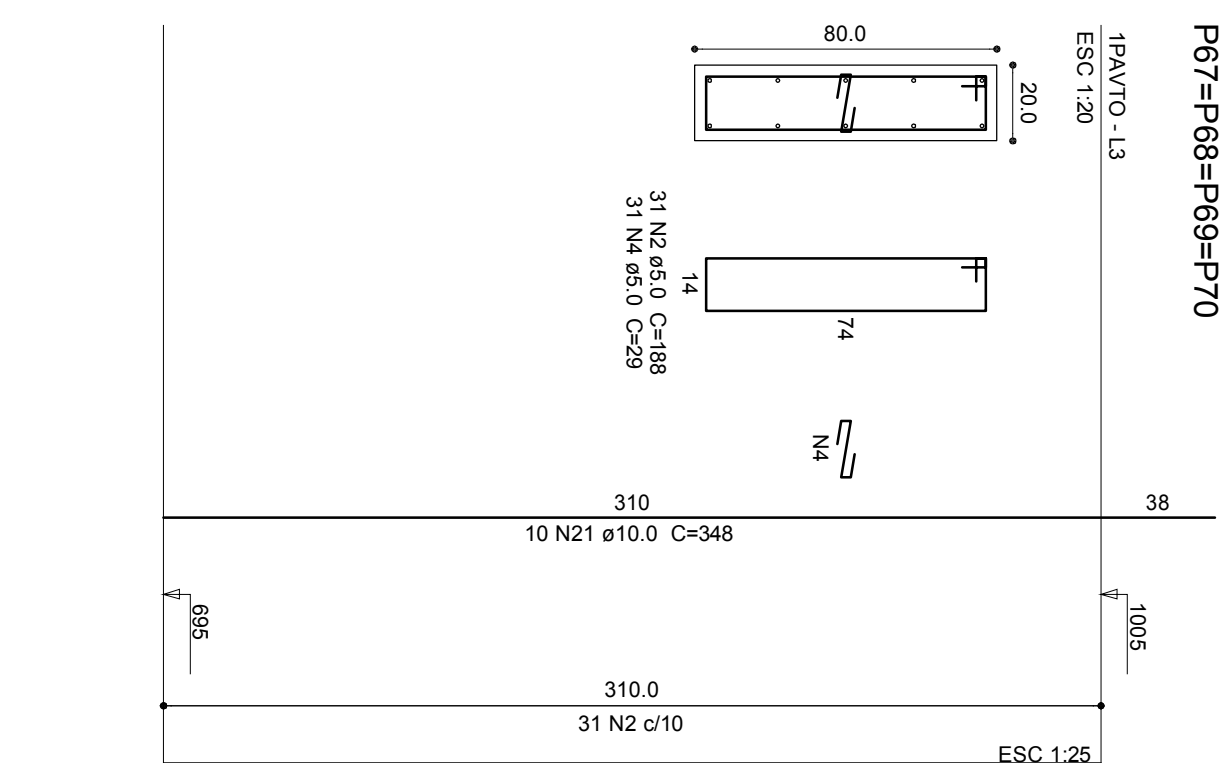
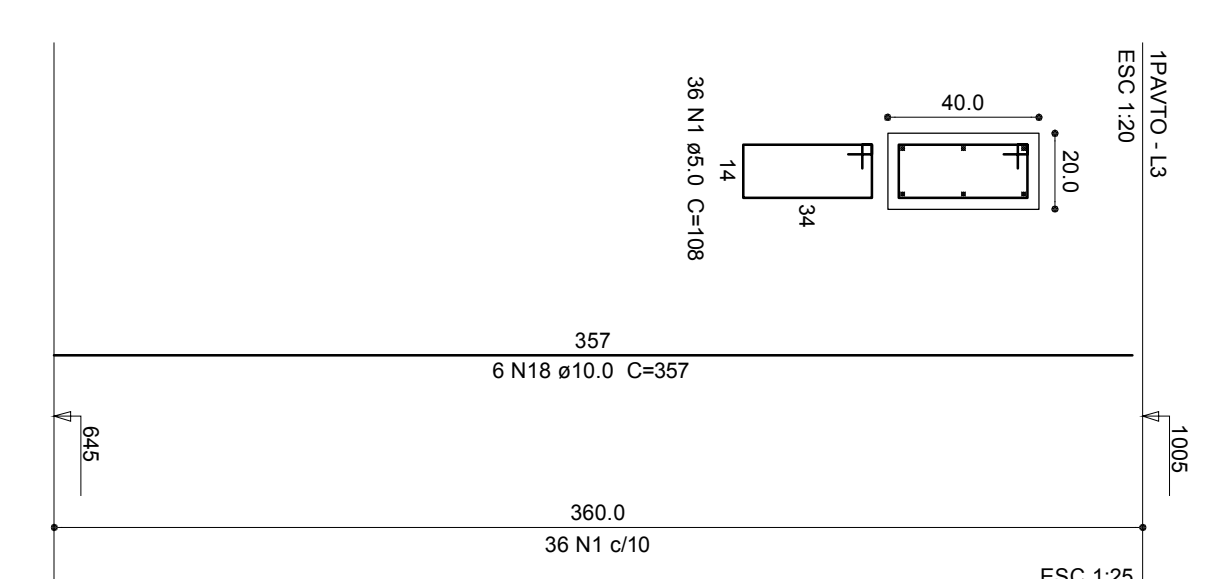
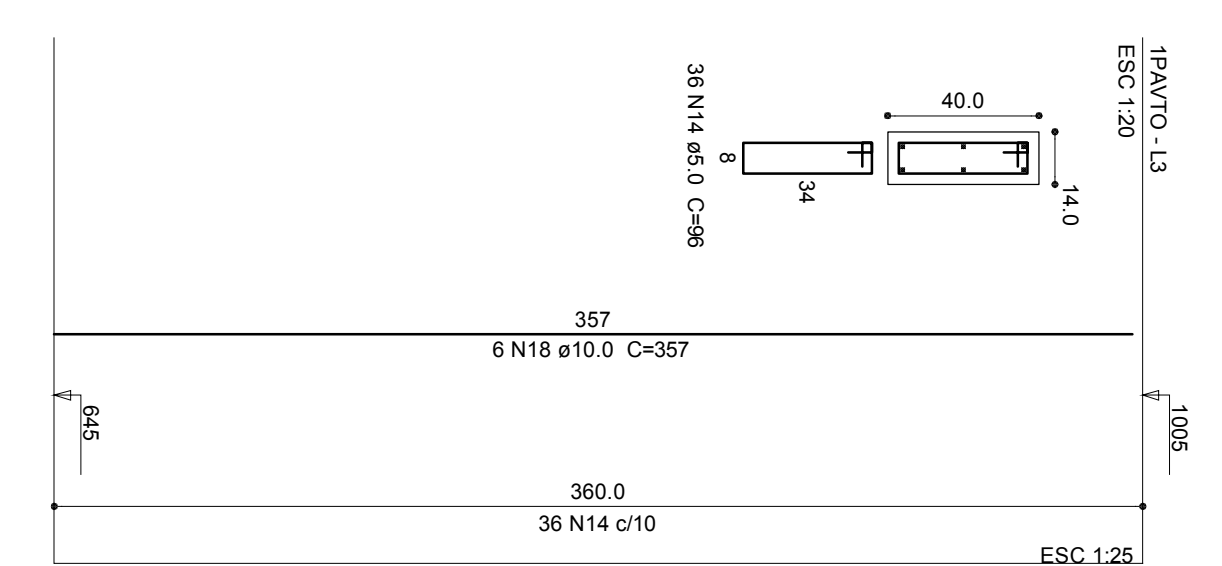
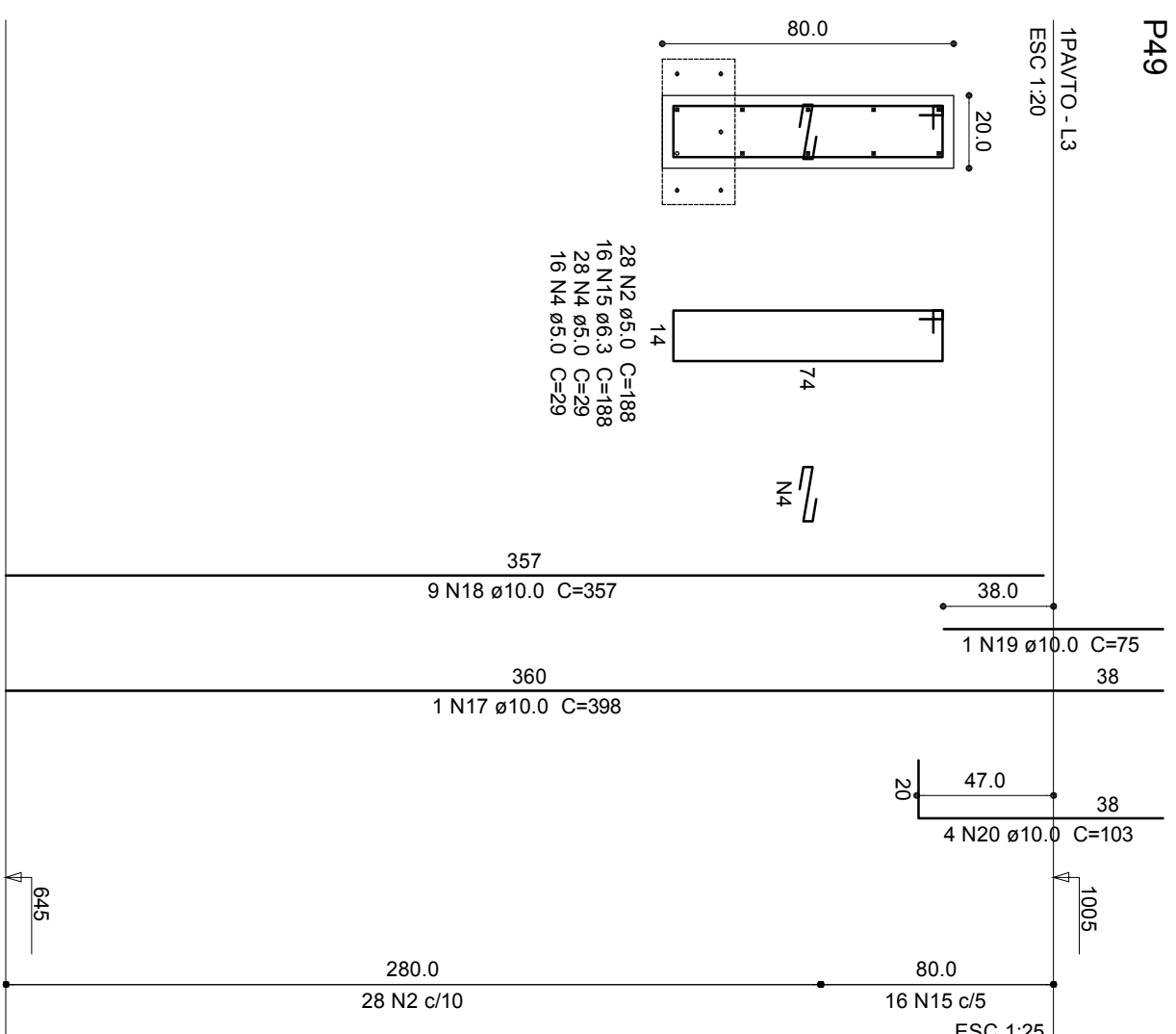
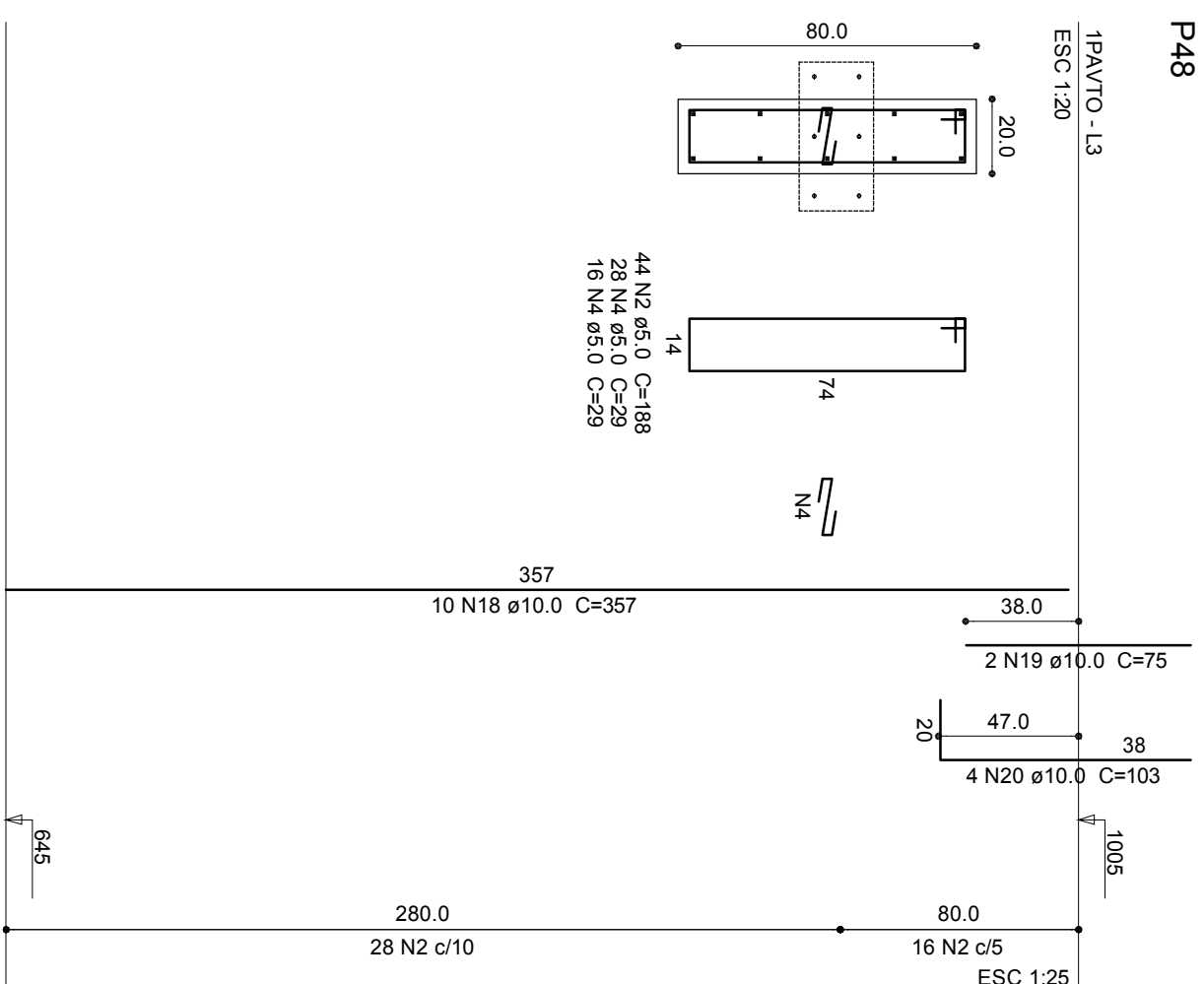
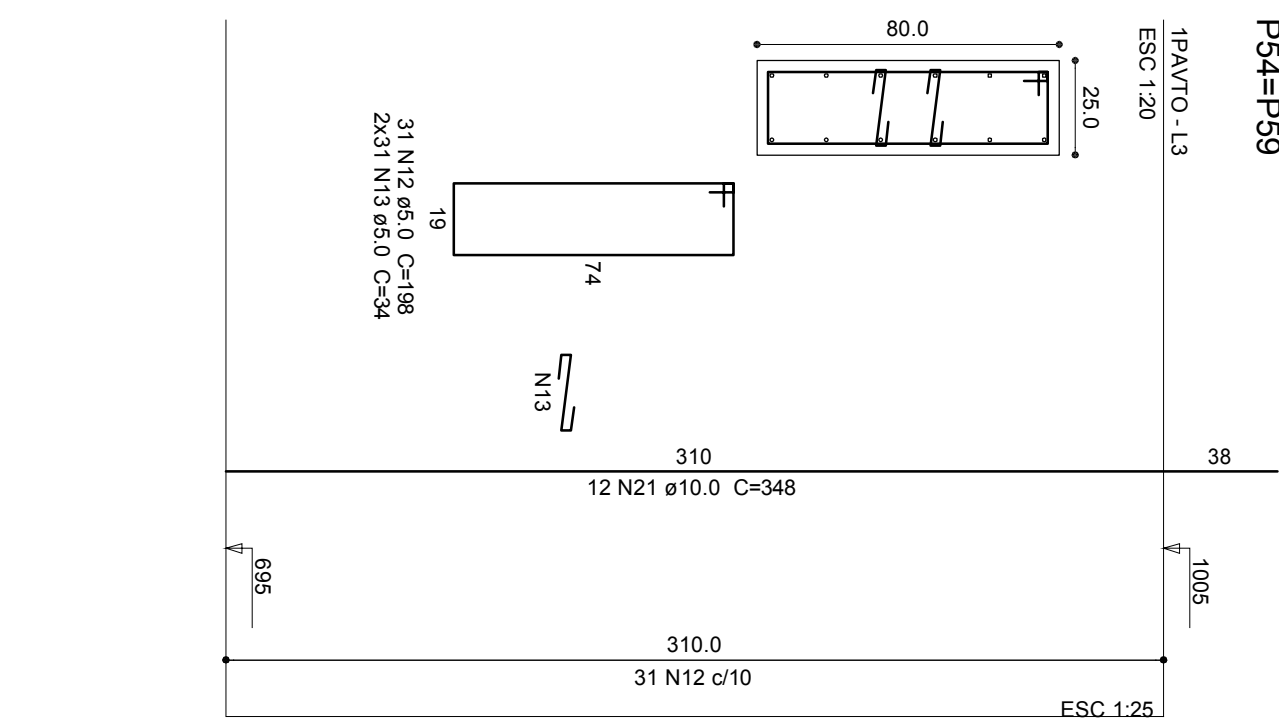
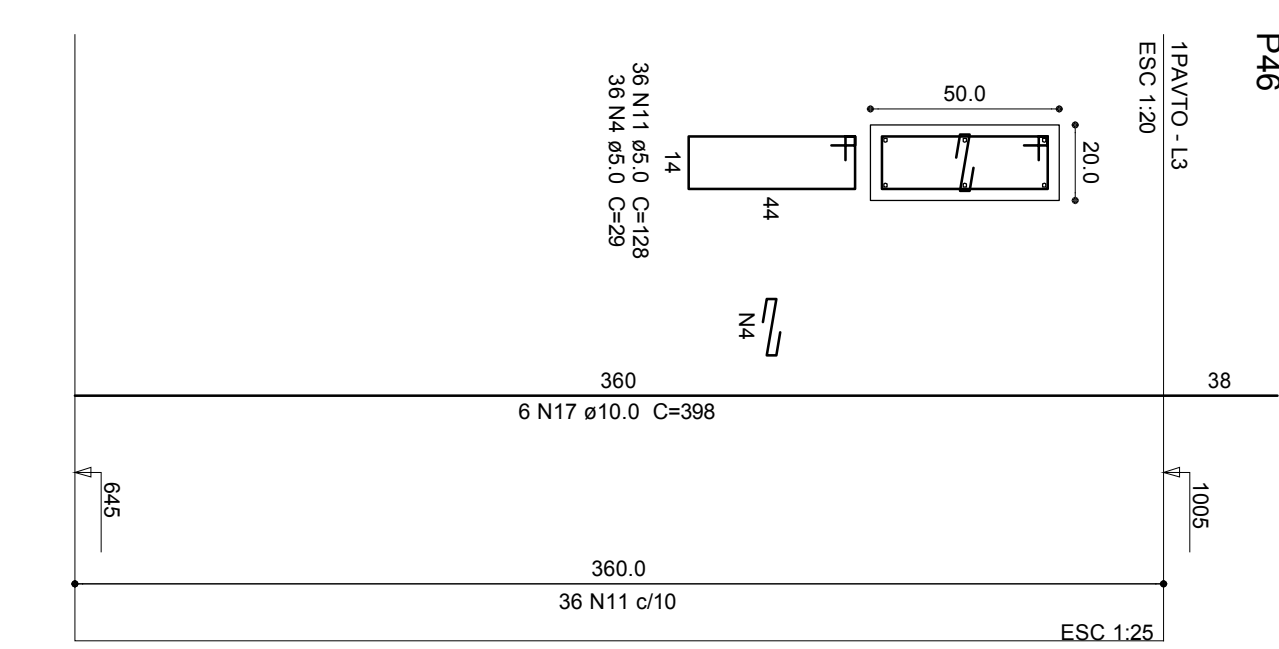
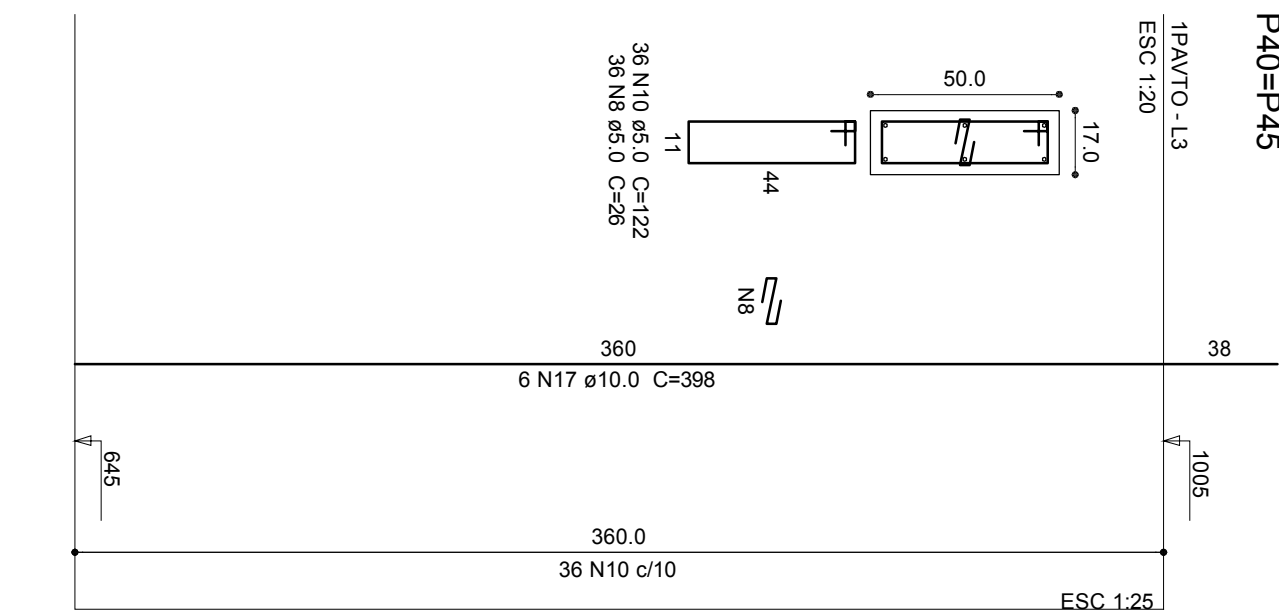
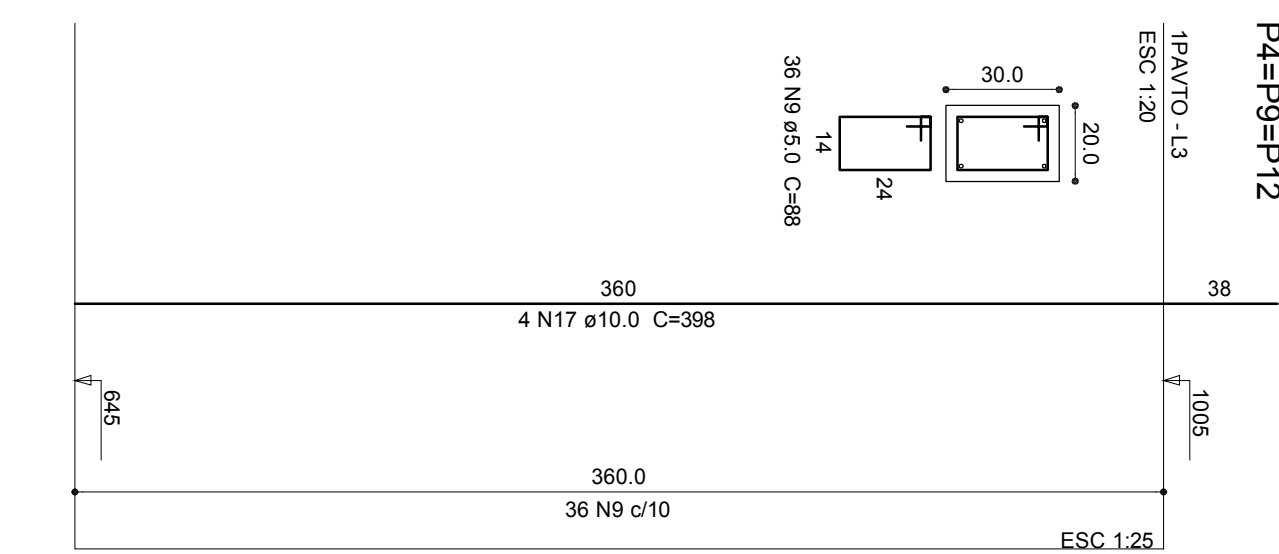
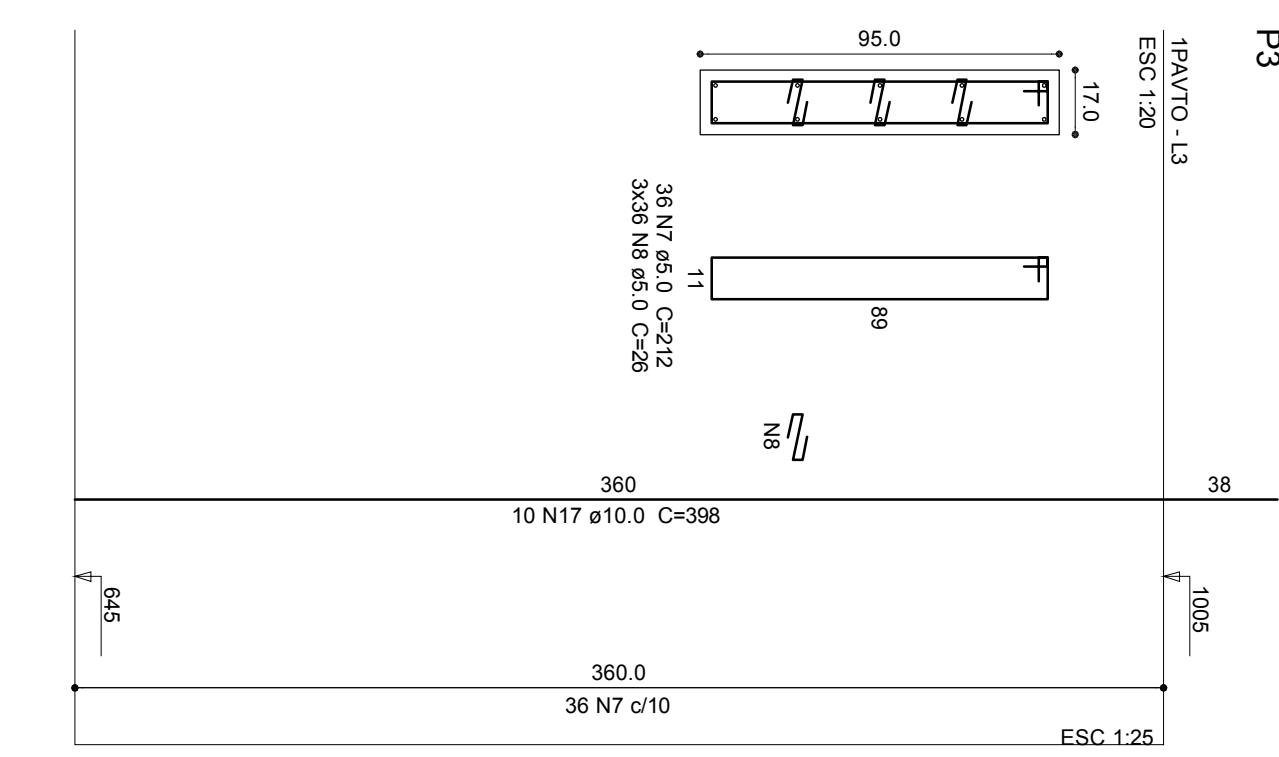
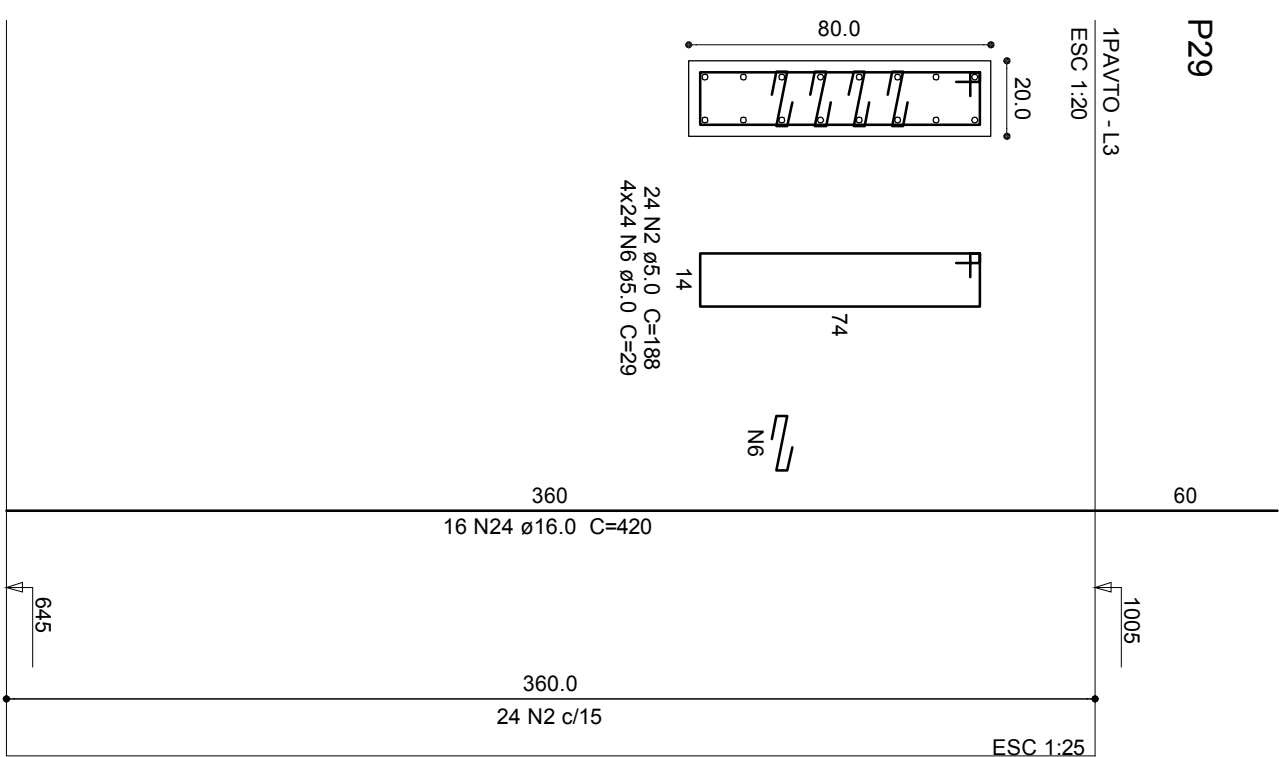
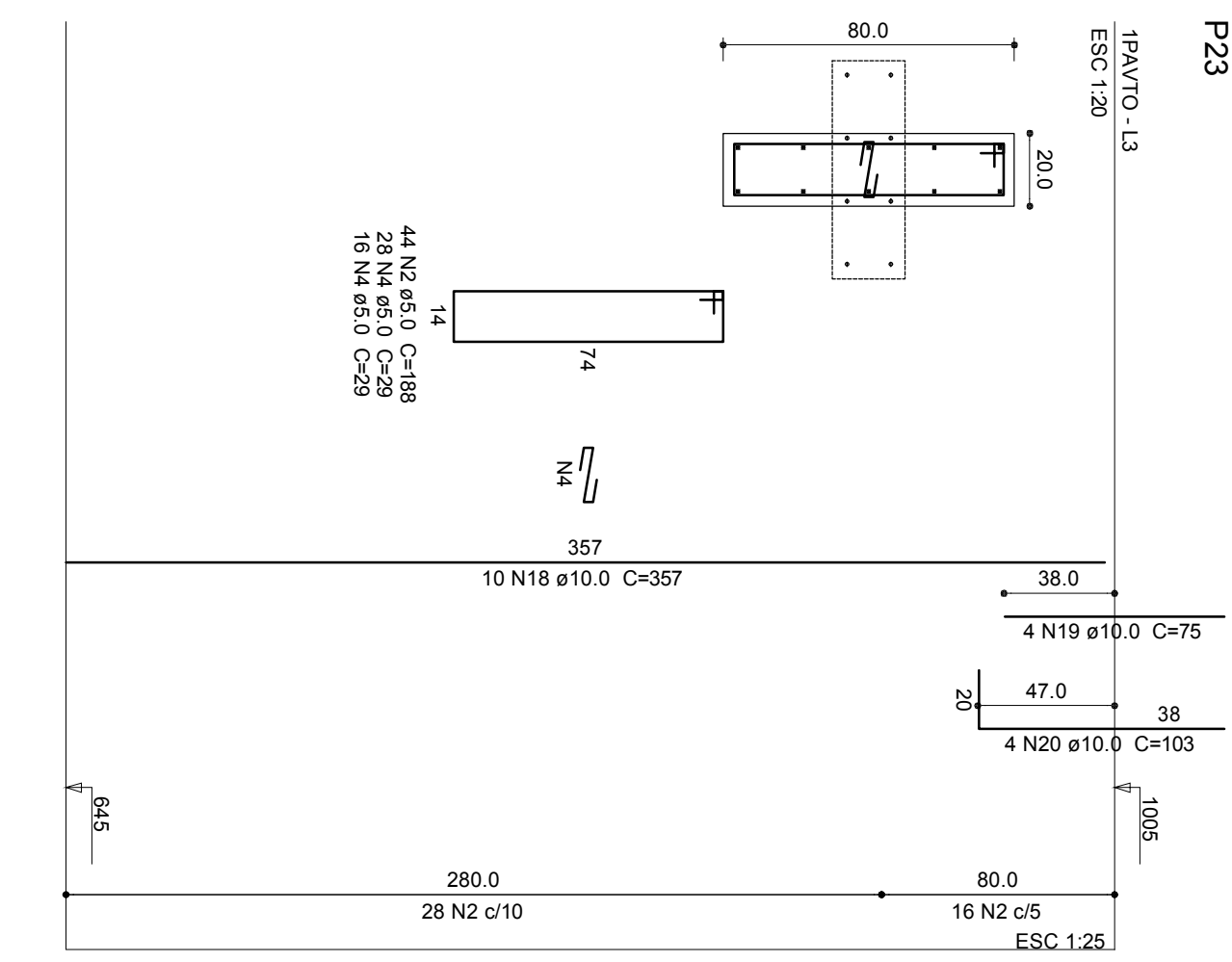


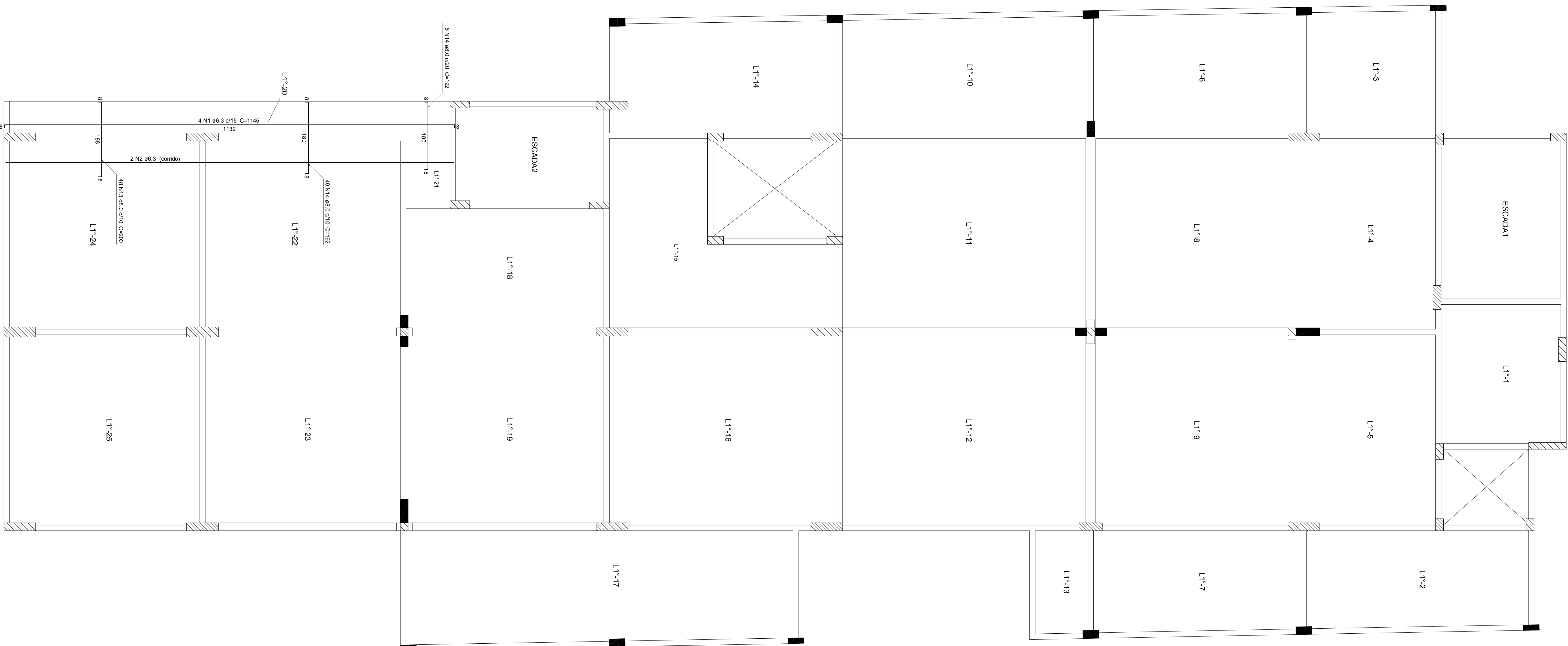


ACO	N	DM	QUANT	C UNIT	C TOTAL
CABO	1	5.0	468	108	5054.4
	2	5.0	536	129	6382.2
	3	5.0	546	131	6500.6
	4	5.0	552	139	6600.8
	5	5.0	108	148	1600.8
	6	5.0	96	29	2784.4
	7	5.0	36	212	7632.2
	8	5.0	160	66	4680.6
	9	5.0	180	72	5280.6
	10	5.0	72	122	8784.4
CABO	11	5.0	36	128	4608.6
	12	5.0	62	198	12276.2
	13	5.0	124	34	4216.4
	14	5.0	144	86	13824.4
	15	5.0	148	96	14880.6
	16	8.0	16	188	3008.6
	17	10.0	156	388	6208.8
	18	10.0	114	357	4088.8
	19	10.0	110	750	750.4
	20	10.0	16	103	1648.8
CABO	21	12.0	64	356	2222.2
	22	12.0	8	407	356.2
	23	12.5	8	420	3256.6
	24	16.0	16	4720	6720.2

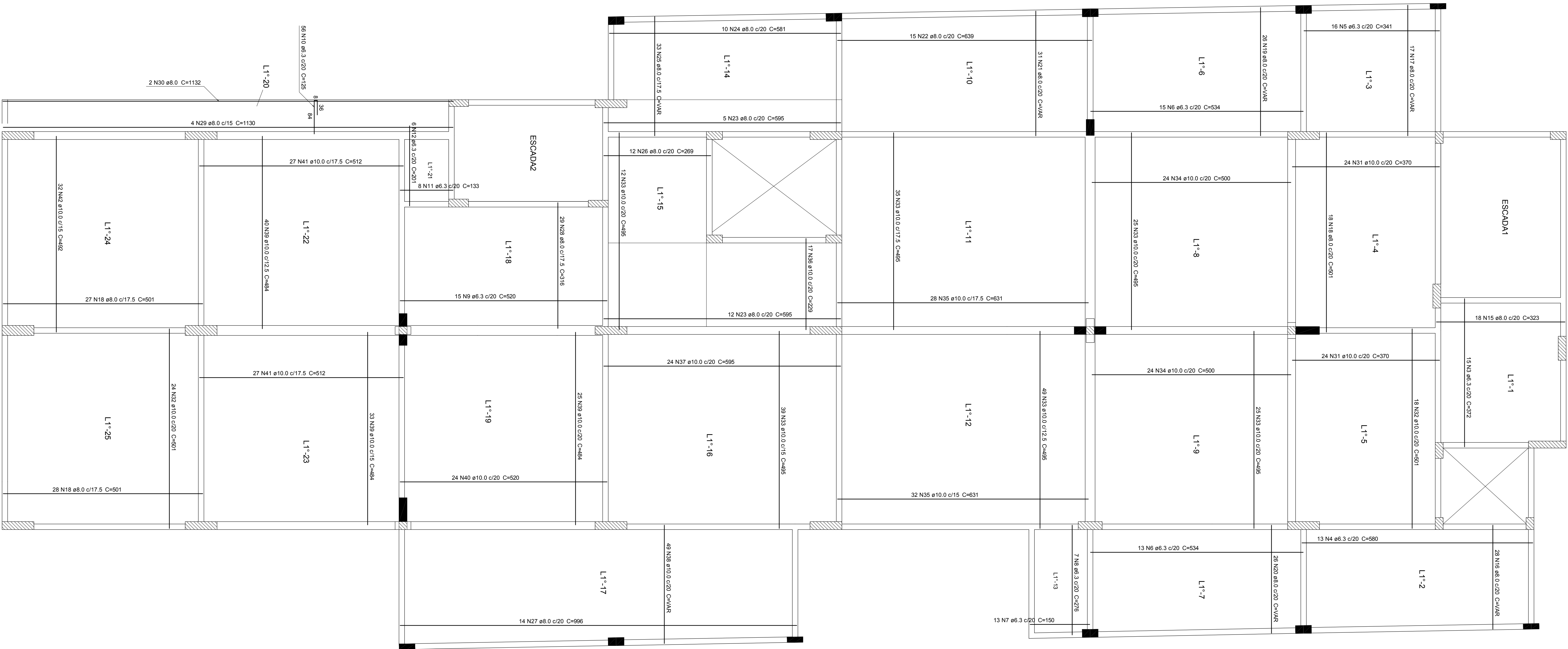
	D/M	C. TOTAL	PESO + 10 %
	(mm)	(m)	(kg)
CA50	6,3	30,1	8,1
	8,1	30,1	13,1
	10,0	1274,6	884,4
	12,5	46,9	49,6
	16,0	67,2	116,7
CA60	5,0	2522,6	427,7
PESO TOTAL			
(kg)			
CA50	1051,9		
CA60	427,7		

Volume de concreto (C-25) = 18.18 m³
Área de forma = 246.76 m²





Armação Negativa das Lajes do 1º Pavto.



Armação Positiva das Lajes do 1º Pavto.

Negative						
Reference on ego						
CAO	N	BMA	Positive		C.MAT	C.TOTAL
			QUANT	QUAL		
1	3	0.0	4	1	146	146
2	4	0.0	16	1	172	172
3	4	6.3	13	1	558	558
4	6	6.3	28	3	524	1465
5	6	6.3	28	3	524	1465
6	6	6.3	7	276	1832	1832
7	6	6.3	7	276	1832	1832
8	6	6.3	3	56	7000	7000
9	11	6.3	8	5	820	820
10	11	6.3	8	5	820	820
11	6.3	8	113	13	1654	1654
12	11	6.3	8	5	820	820
13	11	6.3	8	5	820	820
14	8	6.0	48	20	9800	9800
15	8	6.0	48	20	9800	9800
16	8	6.0	48	20	9800	9800
17	8	6.0	48	20	9800	9800
18	8	6.0	48	20	9800	9800
19	8	6.0	48	20	9800	9800
20	8	6.0	48	20	9800	9800
21	8	6.0	48	20	9800	9800
22	8	6.0	48	20	9800	9800
23	8	6.0	48	20	9800	9800
24	8	6.0	48	20	9800	9800
25	8	6.0	48	20	9800	9800
26	8	6.0	48	20	9800	9800
27	8	6.0	48	20	9800	9800
28	8	6.0	48	20	9800	9800
29	11	6.3	8154	16	15444	15444
30	11	6.3	8154	16	15444	15444
31	30	8.0	2	1132	2684	2684
32	30	8.0	2	1132	2684	2684
33	30	8.0	2	1132	2684	2684
34	30	8.0	2	1132	2684	2684
35	30	8.0	2	1132	2684	2684
36	30	8.0	2	1132	2684	2684
37	30	8.0	2	1132	2684	2684
38	30	8.0	2	1132	2684	2684
39	30	8.0	2	1132	2684	2684
40	30	8.0	2	1132	2684	2684
41	30	8.0	2	1132	2684	2684
42	30	8.0	2	1132	2684	2684

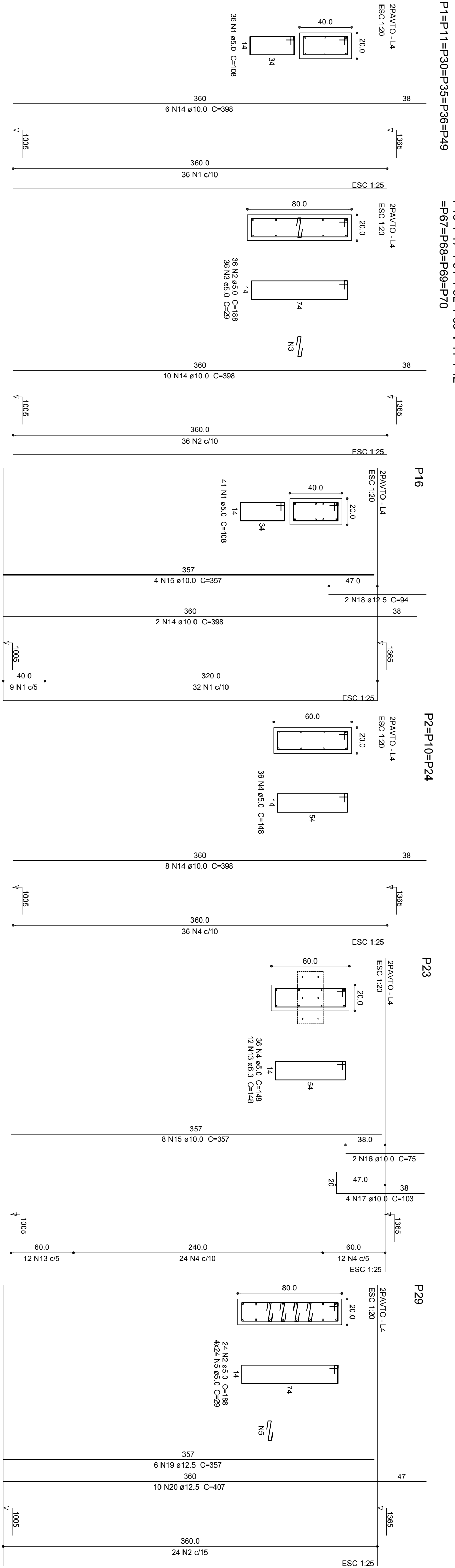
Relação do aço

AÇO	DIAM. (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CASO	6.3	602	162
	8.0	1685	731.4
	10.0	3282.7	2226.3
PESO TOTAL (kg)			
CASO			3119.7

Volume de concreto (C-25) = 57.81 m³
Área de forma = 475.31 m²

Volume de concreto (C-25) = 57.81 m³
Área de forma = 475.31 m²

[illegible]



Relação do aço				
6xP1	3xP2	P3		
3xP4	11xP15	P16		
P23	P29	2xP40		
P48	P48	2xP54		

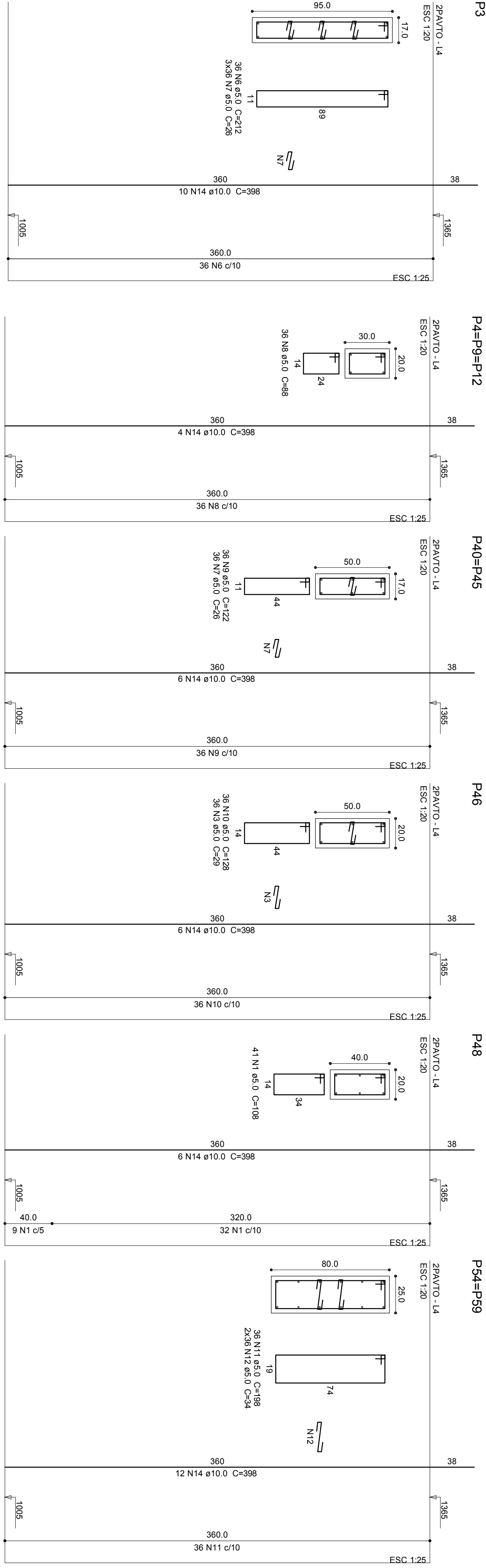
ACO	N	DIM (mm)	QUANT	C.UINT	C.TOTAL (cm)
CA60	1	5.0	298	108	32154
	2	5.0	420	188	78960
	3	5.0	432	20	12528
	4	5.0	144	148	21312
	5	5.0	36	212	7632
	6	5.0	36	26	4680
	7	5.0	180	88	9504
	8	5.0	108	122	8734
	9	5.0	72	128	4608
	10	5.0	36	128	14256
	11	5.0	72	196	14256
	12	5.0	144	148	21312
	13	6.3	12	148	1776
	14	10.0	242	398	96316
	15	10.0	12	357	4234
	16	10.0	2	75	150
	17	10.0	4	103	412
	18	12.5	2	142	2142
	19	12.5	6	357	2142
	20	12.5	10	407	4070

Resumo do aço

ACO	DIM (mm)	C.TOTAL (kg)	PESO ± 10% (kg)
CA60	6.3	17.8	4.8
	10.0	1011.7	686.1
	12.5	64	67.8
CA60	5.0	2021.3	342.7
PESO TOTAL (kg)			
CA60			758.7
CA60			342.7

Volume de concreto (C-25) = 14.937 m³

Área de forma = 192.07 m²





Associação de Municípios do Nordeste do Estado de Santa Catarina
88714-000 - JOINVILLE - SC - Rua Mar Colón, 1843 - Anelândia - Fone: (0xx47) 433.9377
ASSESSORIA E COORDENADORIA DE PLANEJAMENTO URBANO, MUNICIPAL E REGIONAL
Home Page : www.ammunes.org.br

Engenheiro Responsável: **GUASTAVO HARGER PAUL**
VAGNER BALDINI

HOSPITAL MUNICIPAL SÃO JOSÉ
PROJETO ESTRUTURAL
Área total: 2.314,71 m²

Uso: E2.2

FUNDO MUNICIPAL DE SAÚDE DE JOINVILLE
Endereço : Rua Doutor Pedro Gomes nº408, Anís Garibaldi - Joinville/SC
Inscrição Imobiliária: 13.20.13.56.1804-000

Assinatura: _____
Assinatura Responsável pelo Projeto: _____

Identificações e Assinaturas

Assinatura: _____
Assinatura Responsável pelo Projeto: _____

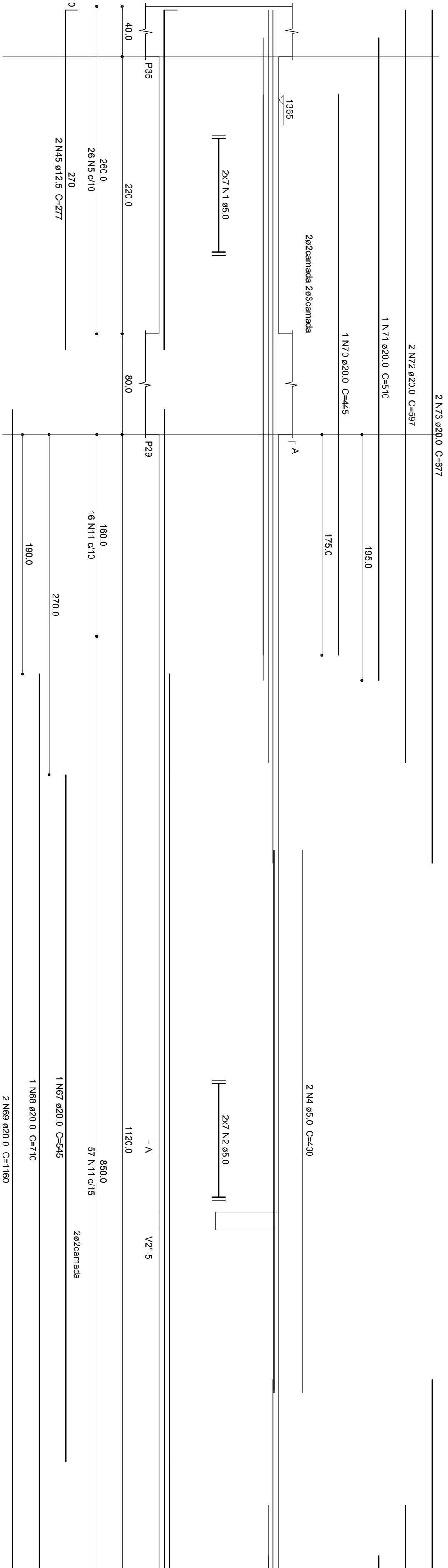
SECRETARIA DE SAÚDE DO MUNICÍPIO
Assinatura Responsável pelo Projeto: _____
Assinatura Responsável pelo Projeto: _____

Prancha

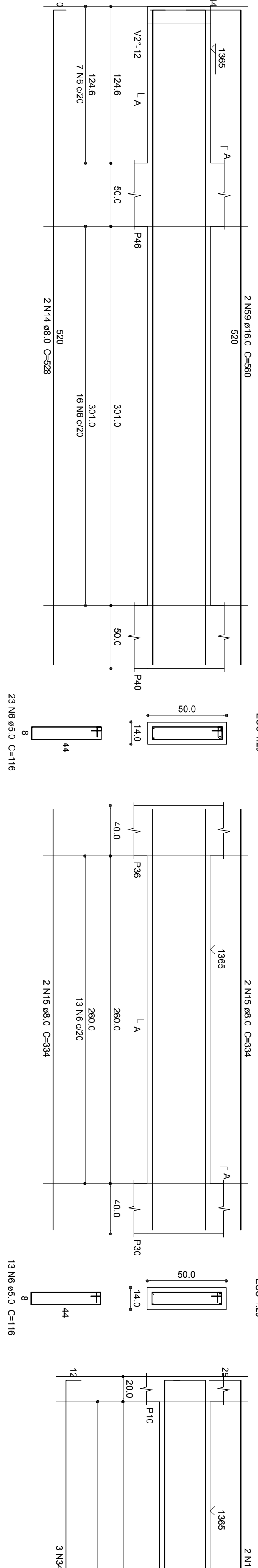
Conteúdo da Prancha: **PLARES DO 2º PAVTO.**

EST 22/47

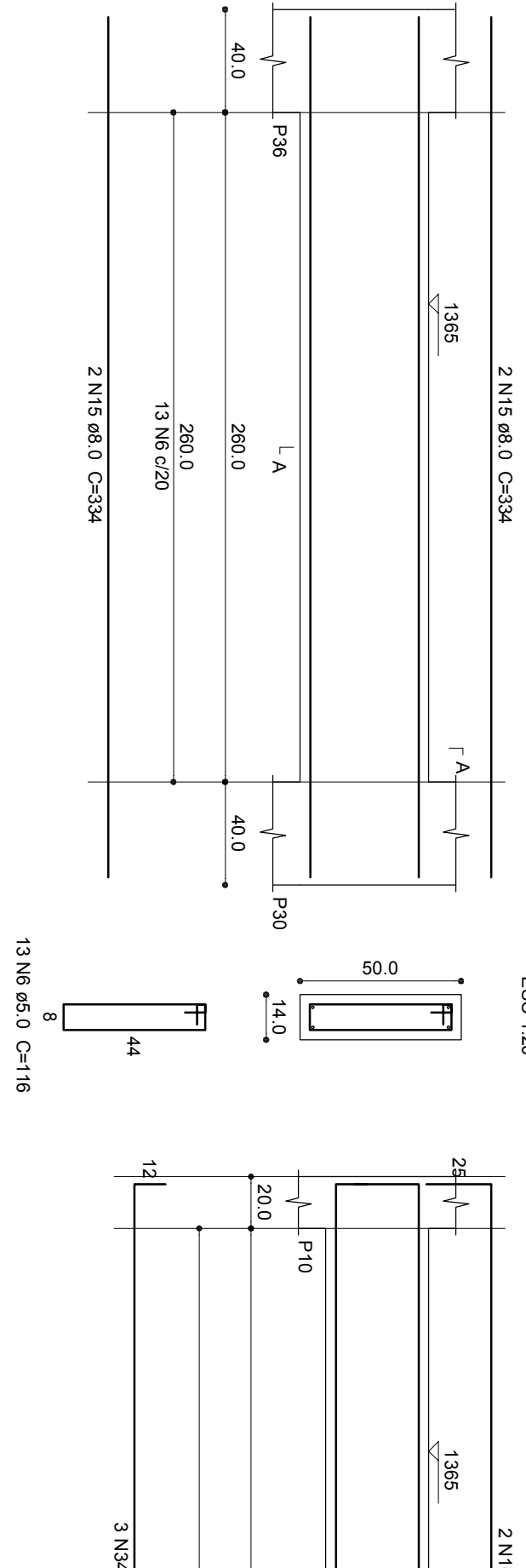
V2°-17 (14 x 95)



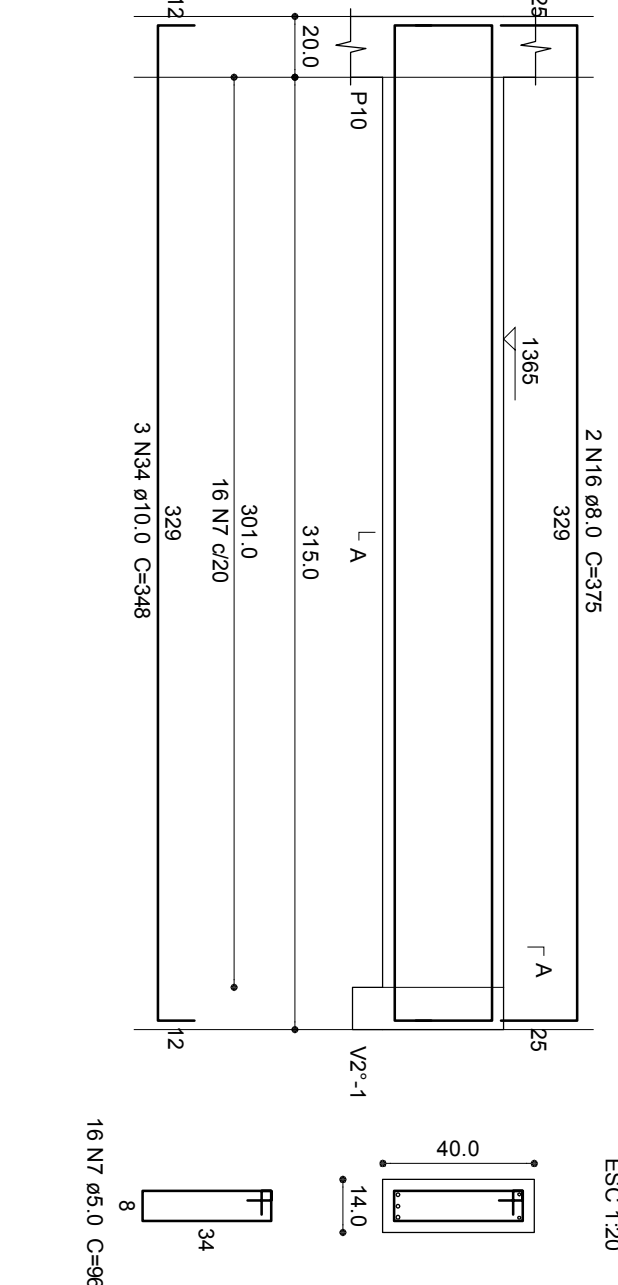
V2°-19 (14 x 50)



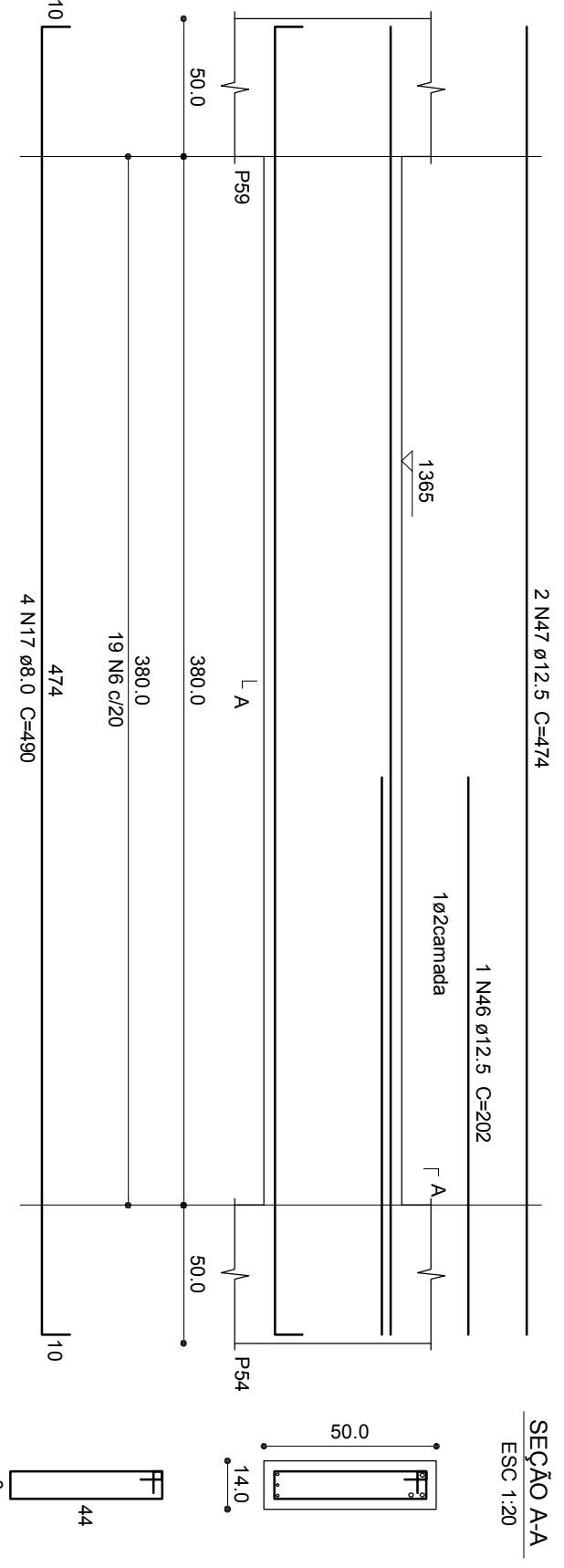
V2°-20 (14 x 50)



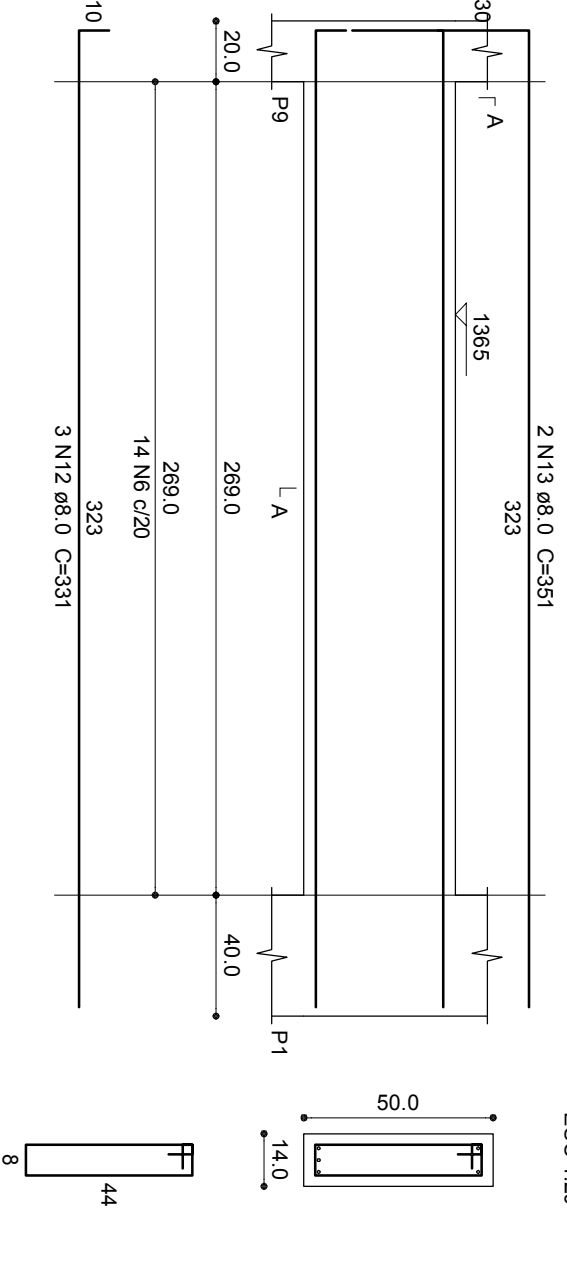
V2°-21 (14 x 40)



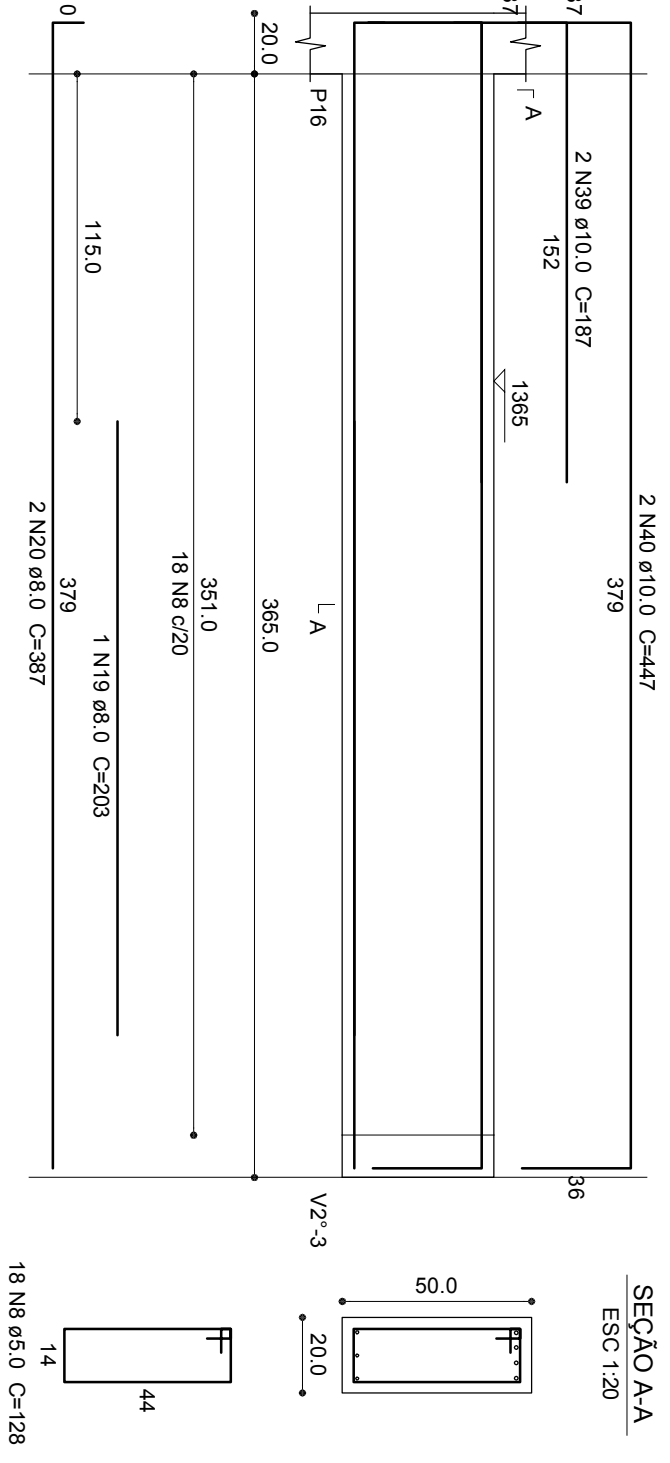
V2°-22 (14 x 50)



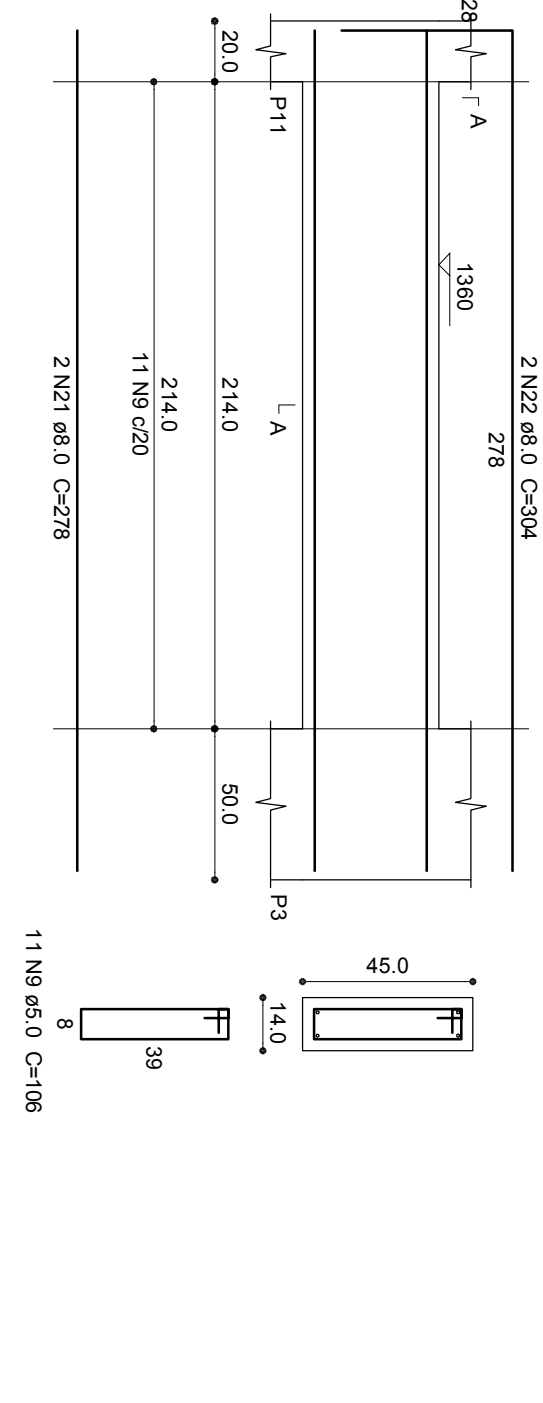
V2°-18 (14 x 50)



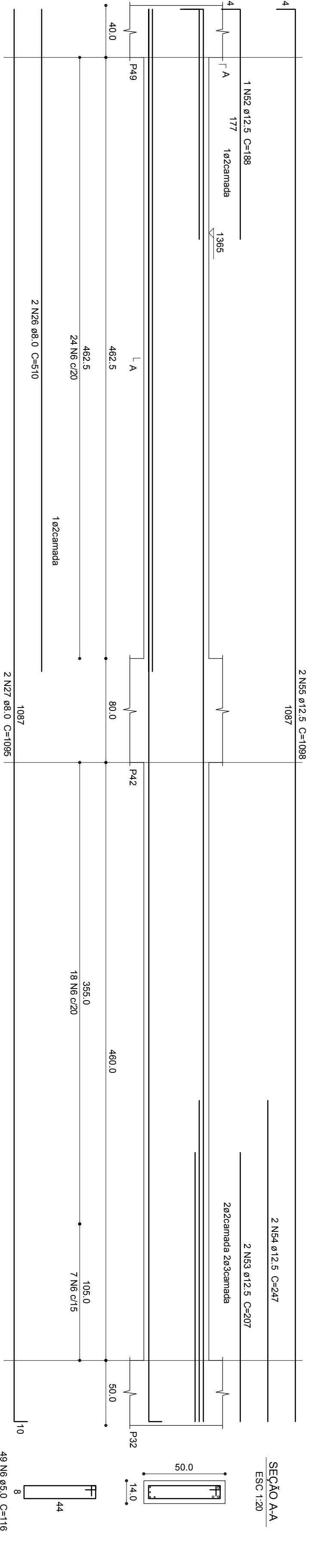
V2°-26 (20 x 50)



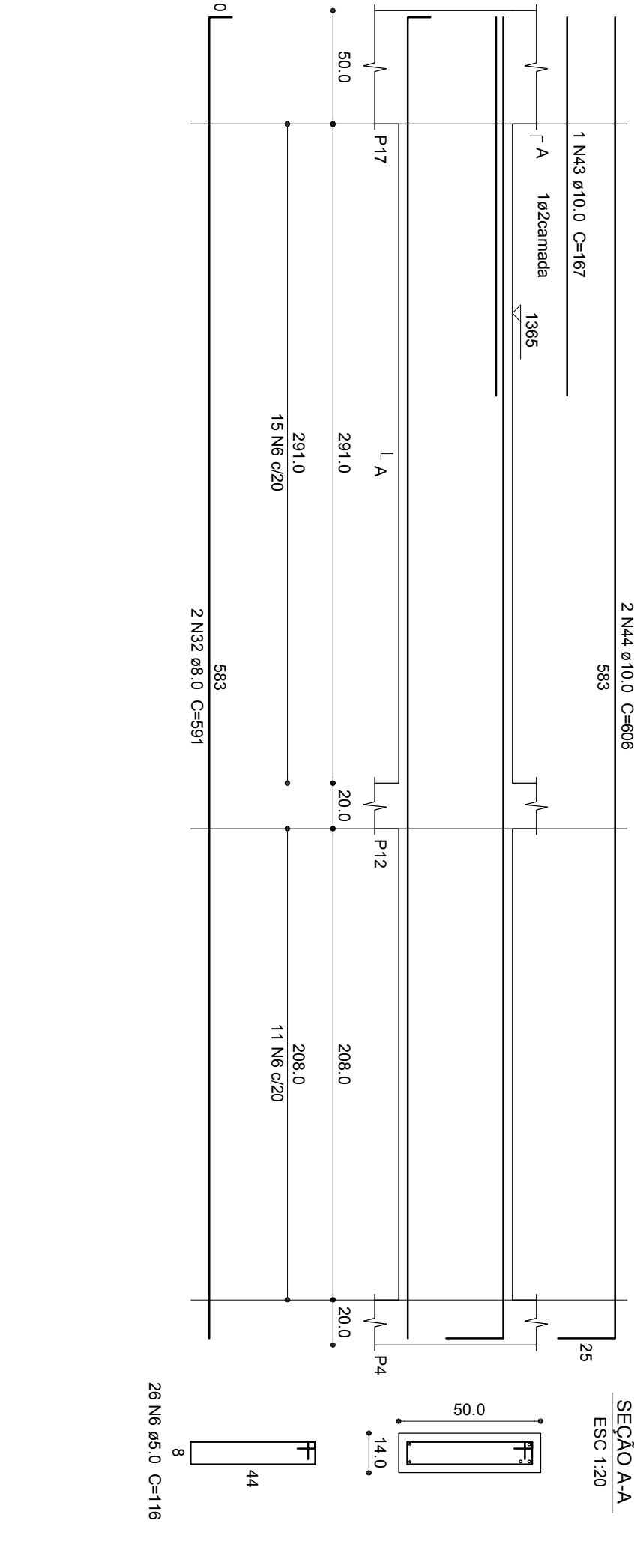
V2°-27 (14 x 45)



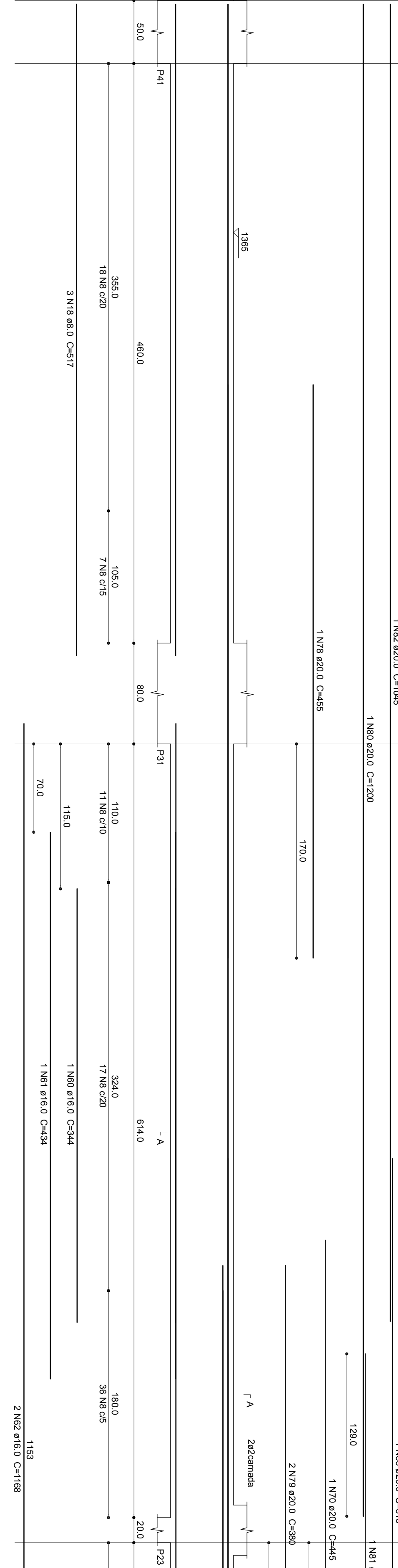
V2°-29 (14 x 50)



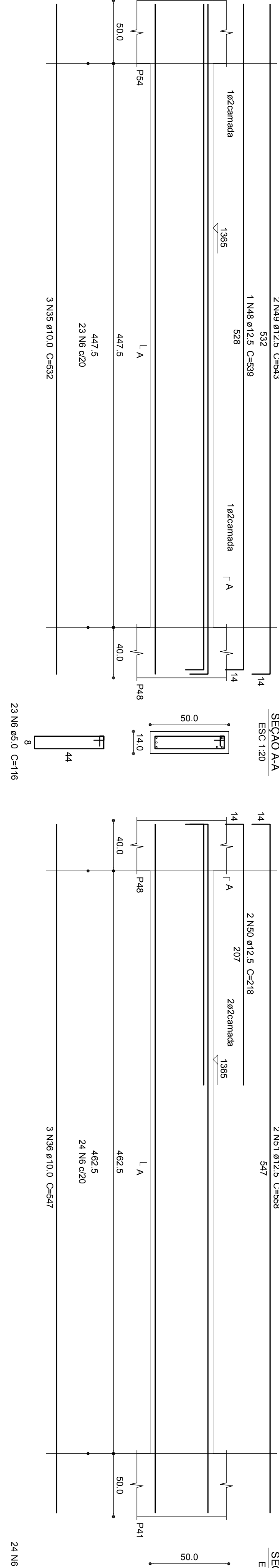
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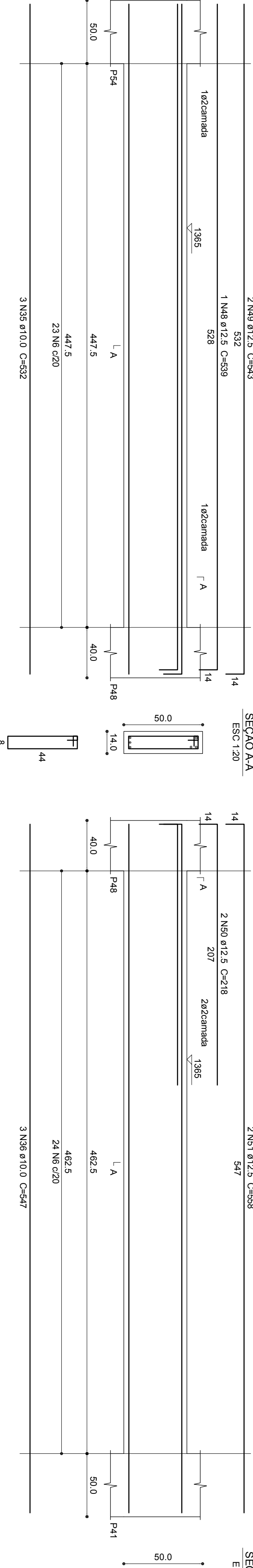
V2°-28 (14 x 50)



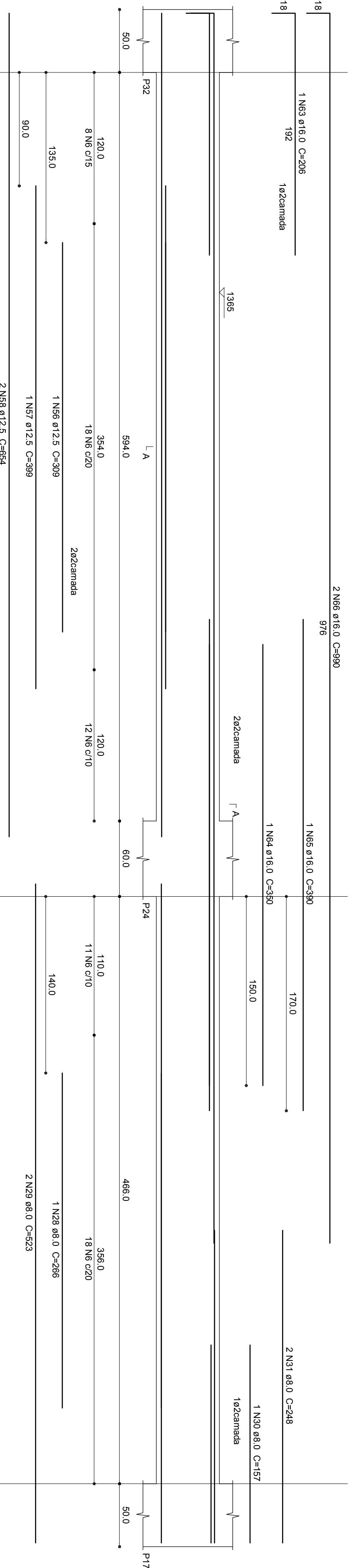
V2°-25 (20 x 50)



V2°-23 (14 x 50)



V2°-30 (14 x 50)



SEÇÃO AA

ESC. 1:20

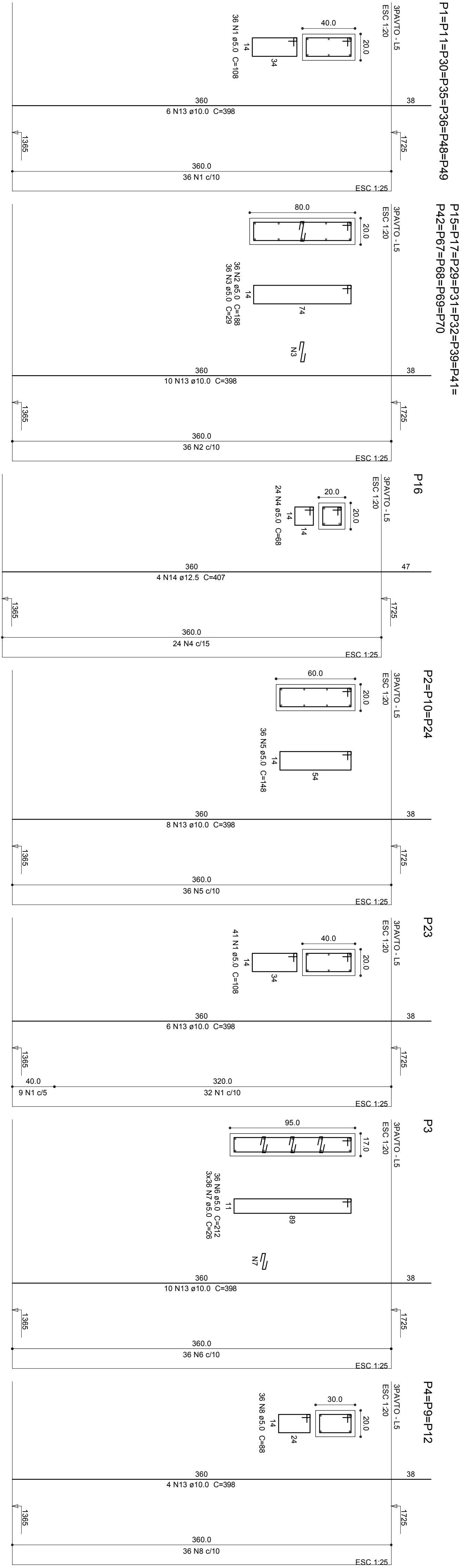
SEÇÃO BB

ESC. 1:20

ACO	N	DAM	QUANT	COTRINA
CA60	1	5,0	14	4878
CA60	3	5,0	14	4878
CA60	4	5,0	48	14634
CA60	5	5,0	302	98032
CA60	6	5,0	118	38632
CA60	7	5,0	156	50568
CA60	8	5,0	11	353
CA60	9	5,0	11	353
CA60	10	5,0	11	353
CA60	11	8,3	84	2300
CA60	12	8,3	2	331
CA60	13	8,3	2	331
CA60	14	8,3	2	331
CA60	15	8,3	2	331
CA60	16	8,3	2	331
CA60	17	8,3	2	331
CA60	18	8,3	2	331
CA60	19	8,3	2	331
CA60	20	8,3	2	331
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CA60	26	8,3	2	331
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CA60	69	8,3	2	331
CA60	70	8,3	2	331
CA60	71	8,3	2	331
CA60	72	8,3	2	331
CA60	73	8,3	2	331
CA60	74	8,3	2	331
CA60	75	8,3	2	331
CA60	76	8,3	2	331
CA60	77	8,3	2	331
CA60	78	8,3	2	331
CA60	79	8,3	2	331
CA60	80	8,3	2	331
CA60	81	8,3	2	331
CA60	82	8,3	2	331
CA60	83	8,3	2	331

Resumo do aço

ACO	DIAM	C.TOTAL	PESO + 10 %
	(mm)	(m)	(kg)
CA50	6,3	173,1	46,6
	8,0	197,4	85,7
	10,0	125,9	85,4
	12,5	101,9	108
	16,0	71,6	124,3
CA60	20,0	153,5	416,4
	5,0	981,4	166,4



Relação do aço

7xP1	3xP2	P3
3xP4	12xP15	P16
P23	2xP40	P46
2xP54		

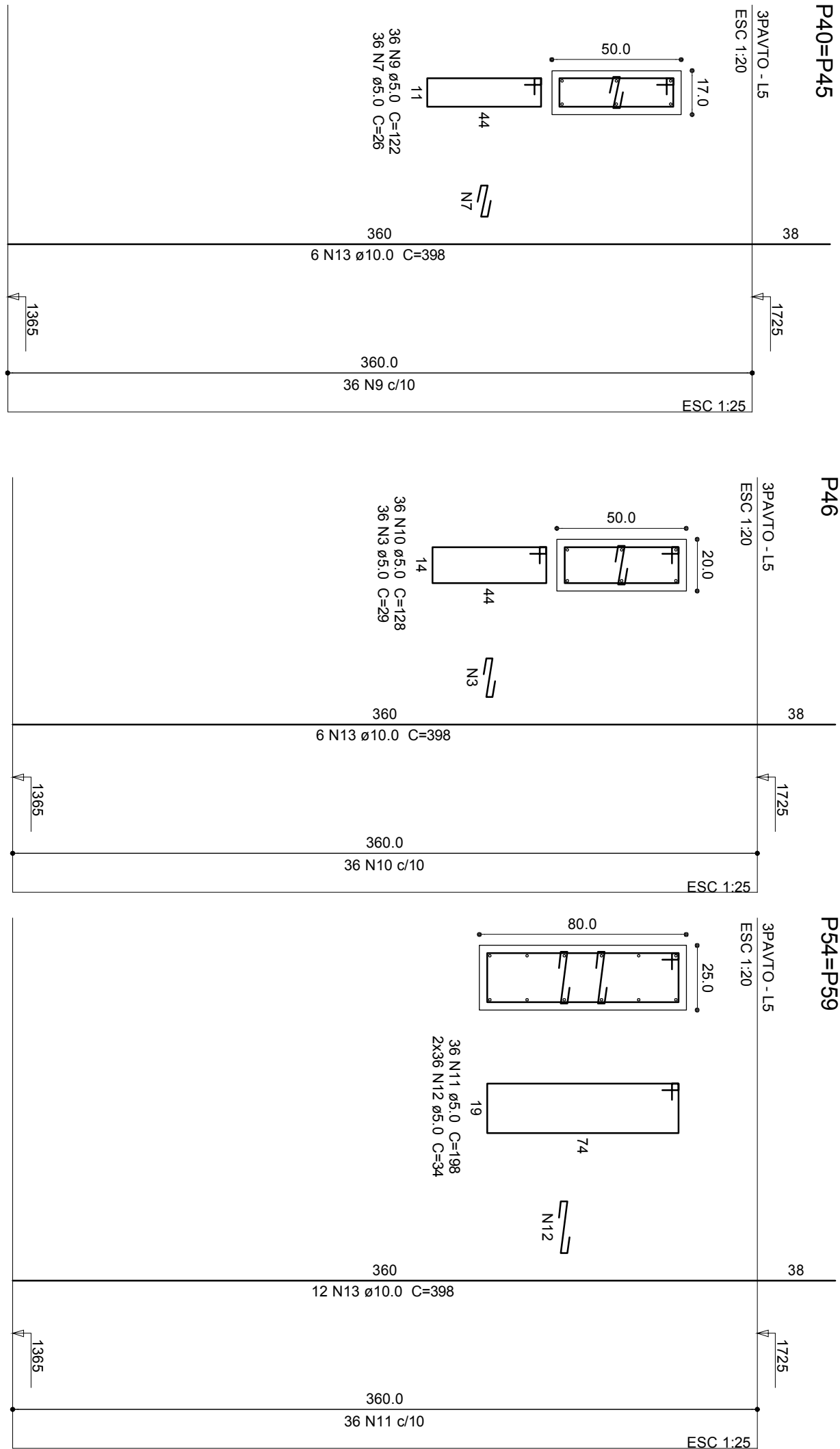
AÇO	N	DIAM (mm)	QUANT	C. UNIT (cm)	C. TOTAL (cm)
CA60	1	5.0	293	108	31644
	2	5.0	432	188	81216
	3	5.0	468	28	13572
	4	5.0	24	68	1632
	5	5.0	128	148	18944
	6	5.0	36	212	7632
	7	5.0	180	88	4680
	8	5.0	108	88	9504
	9	5.0	72	122	8754
	10	5.0	36	128	4608
	11	5.0	72	128	9216
	12	5.0	144	94	14896
	13	10.0	256	368	101888
CA50	14	12.5	4	407	1628

Resumo do aço

AÇO	DIAM (mm)	C. TOTAL (cm)	PESO + 10 % (kg)
CA50	10.0	1018.9	691
CA50	12.5	16.3	17.3
CA60	5.0	1884.1	356.4
PESO TOTAL (kg)			
CA50	708.2		
CA60	356.4		

Volumre de concreto (C-25) = 14.3 m³

Área de forma = 1887.9 m²





Associação de Municípios do Nordeste do Estado de Santa Catarina
88214-000 - JOINVILLE - SC - Rua Mar Colln, 1843 - América - Fone: (047) 433.3077
ASSESSORIA E COORDENADORIA DE PLANEJAMENTO URBANO, MUNICIPAL E REGIONAL
Home Page : www.ammunesc.org.br

Engenheiro Responsável: **GUARINO HARGRE PAUL**
VAGNER BALDINI

HOSPITAL MUNICIPAL SÃO JOSÉ
PROJETO ESTRUTURAL

Área total: 2.314,71 m²

FUNDO MUNICIPAL DE SAÚDE DE JOINVILLE

Endereço : Rua Doutor Plácido Gomes nº408, Anís Garibaldi - Joinville/SC
Inscrição Imobiliária: 13.20.13.56/1804-000

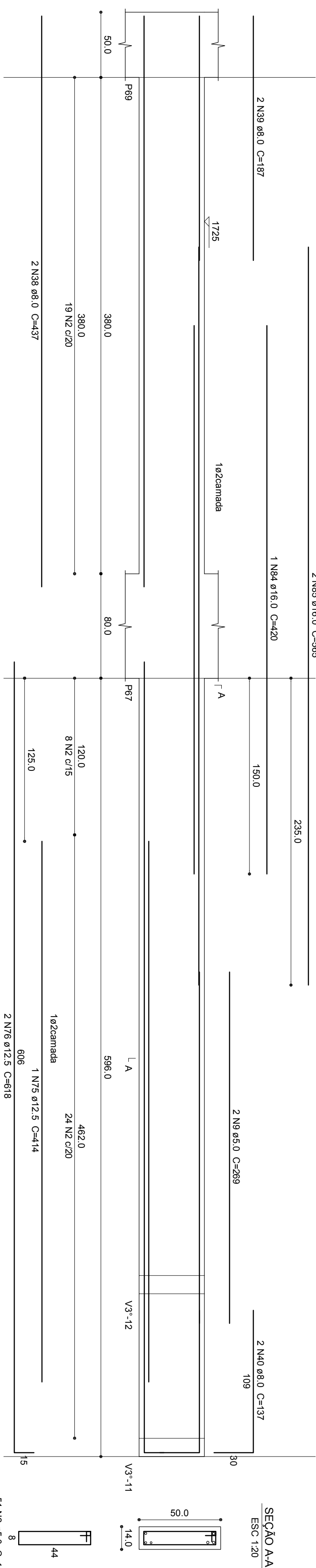
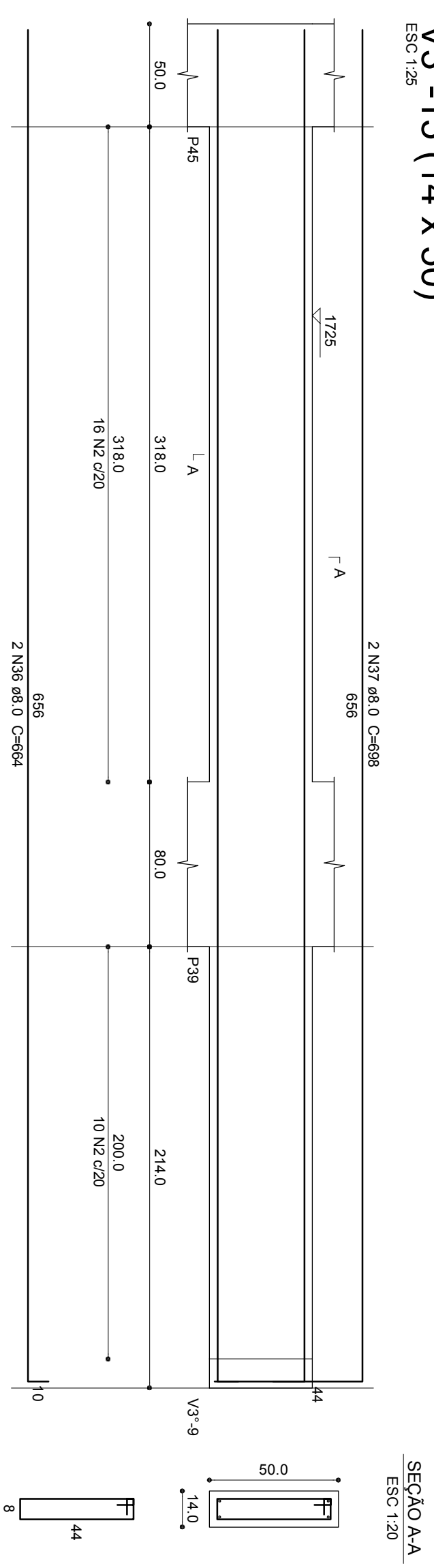
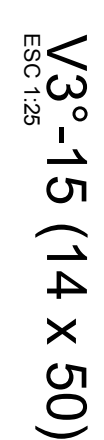
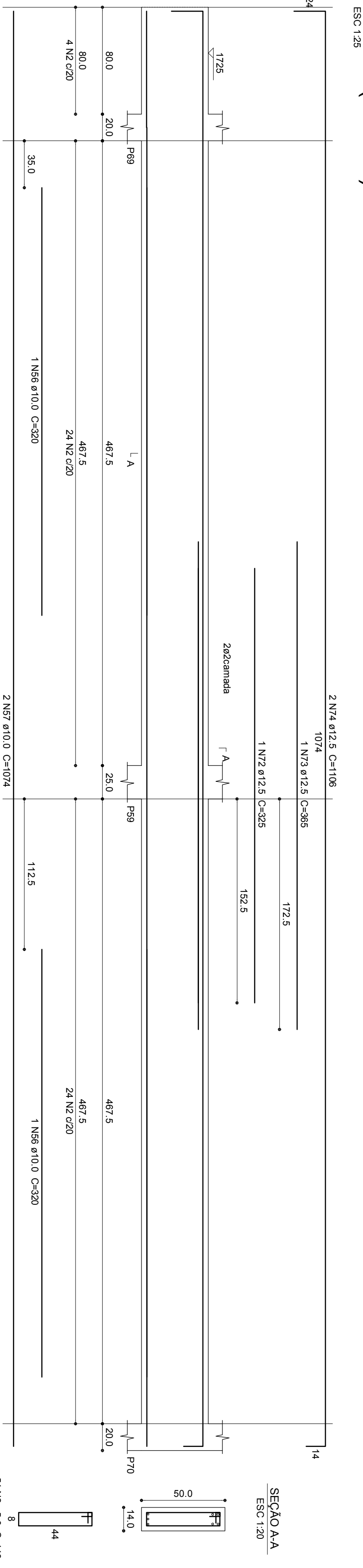
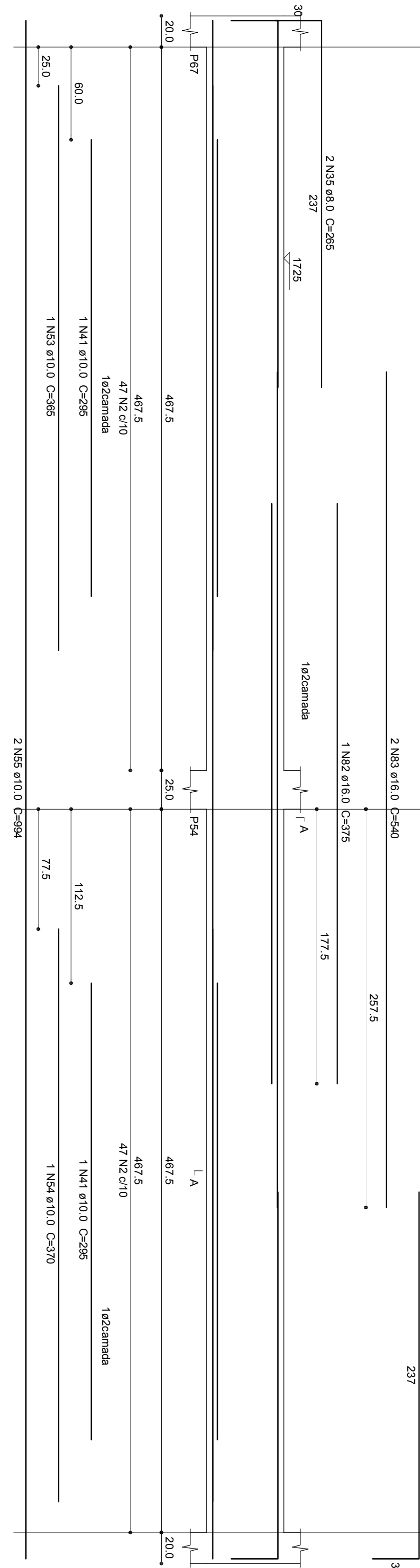
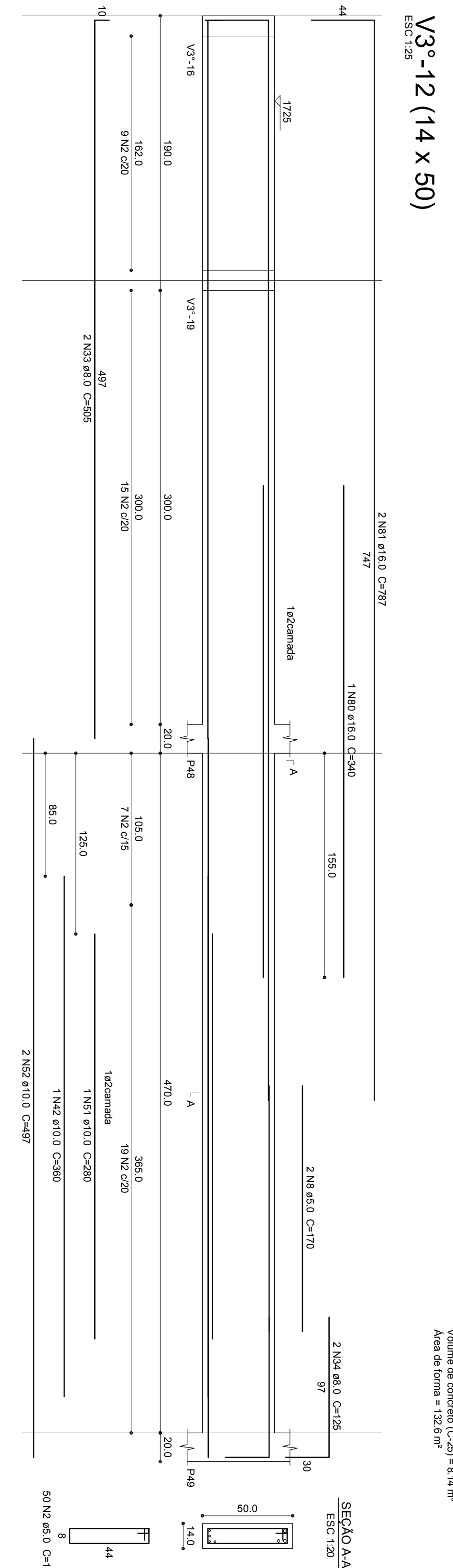
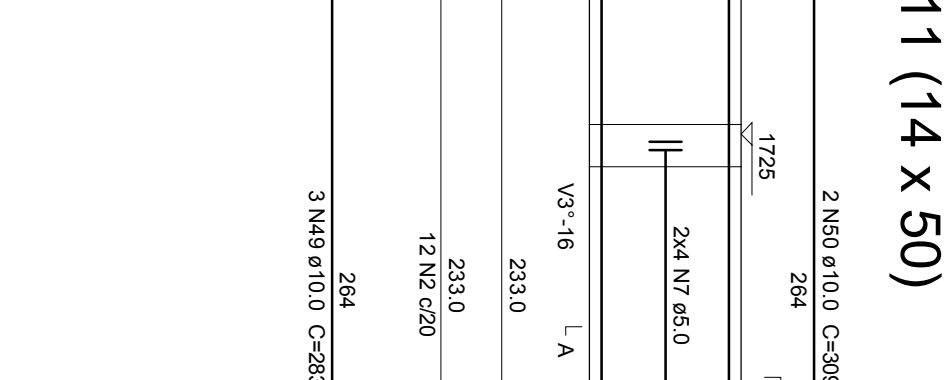
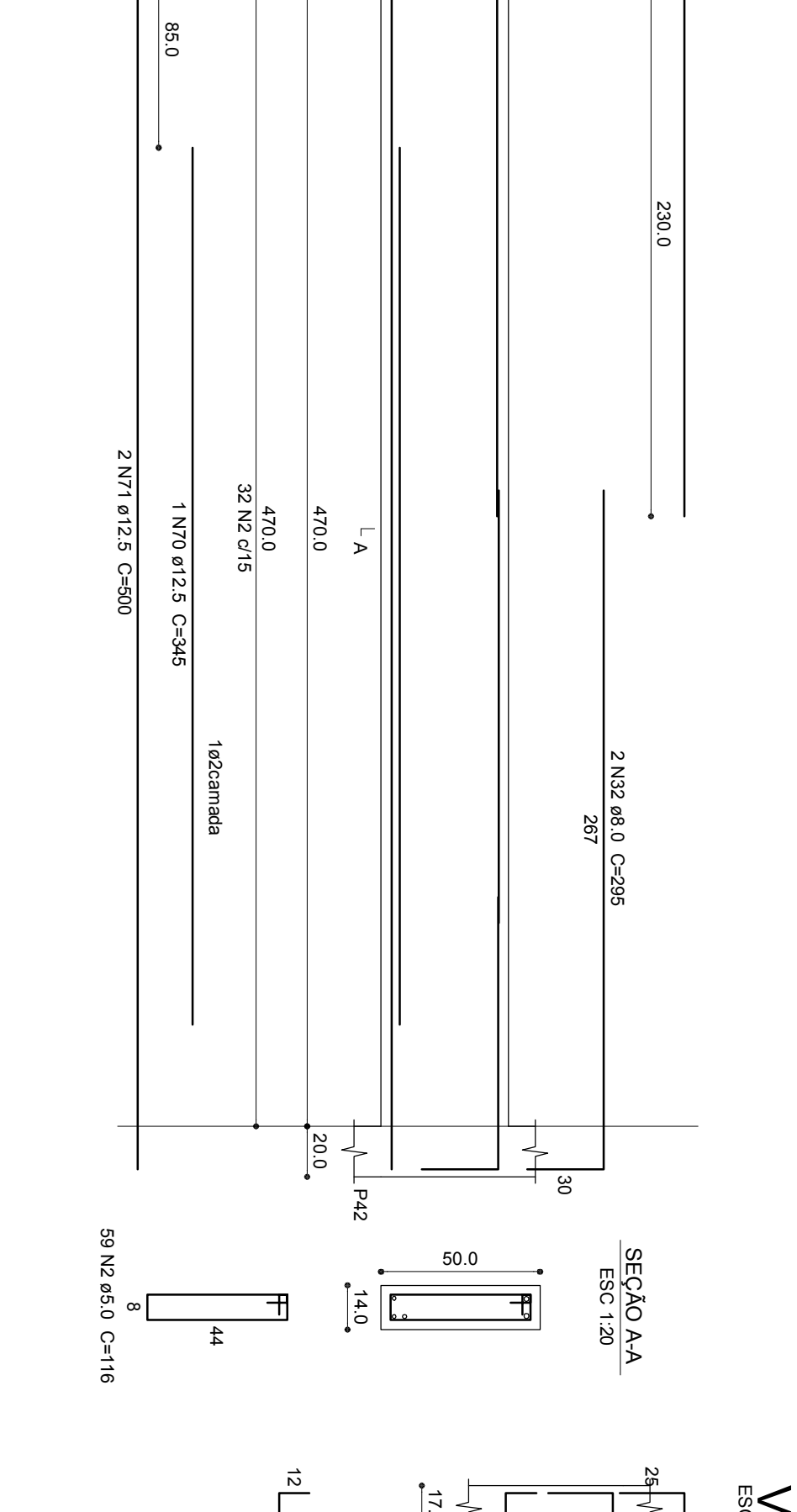
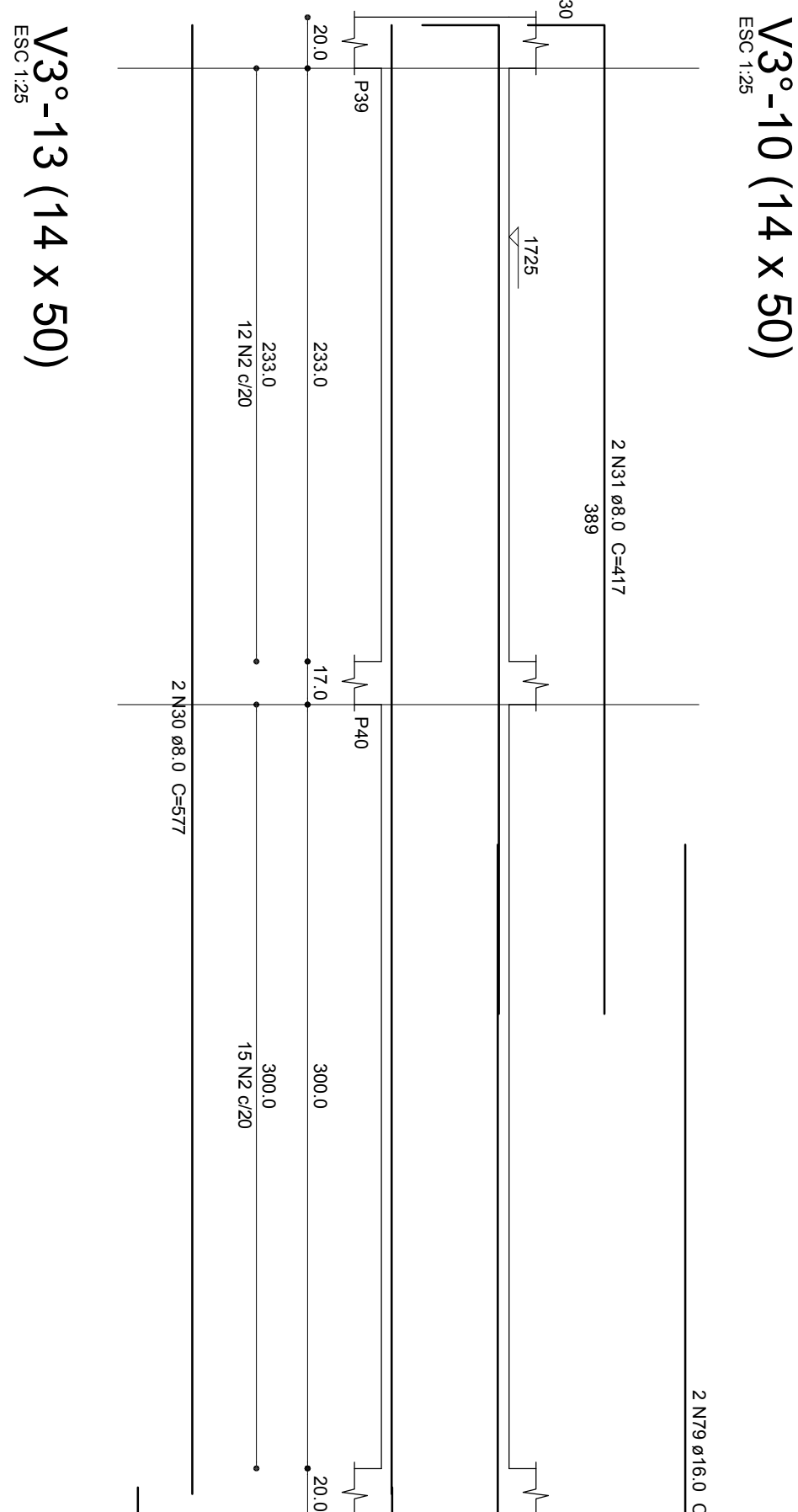
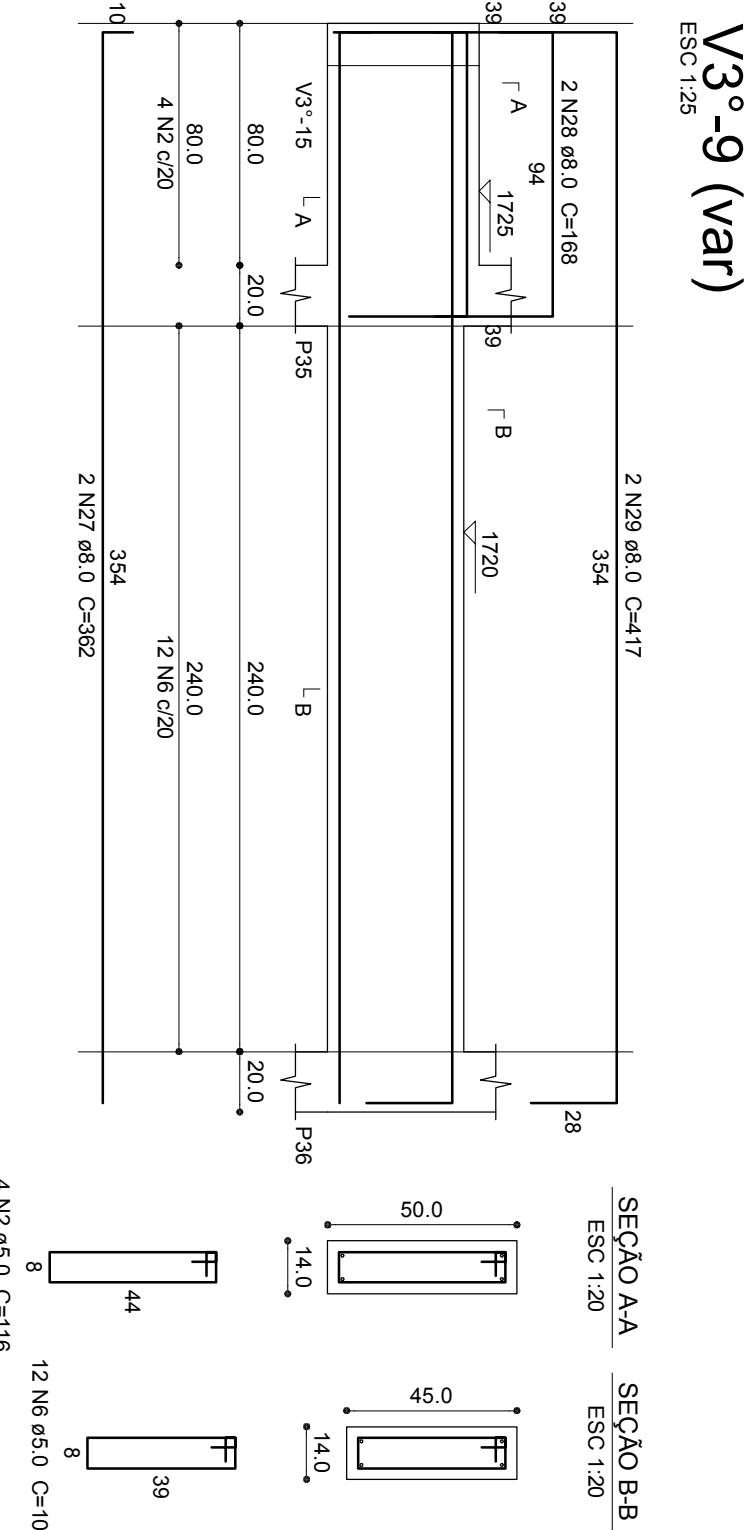
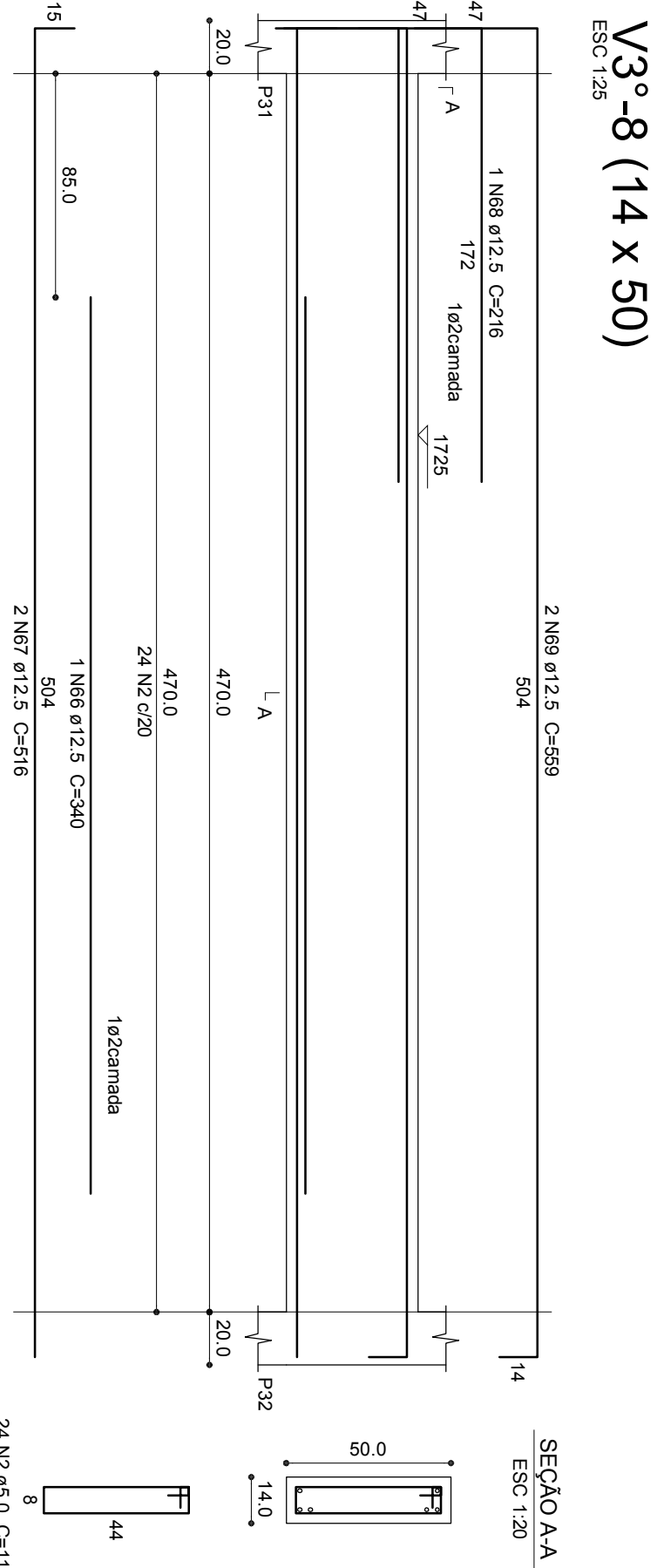
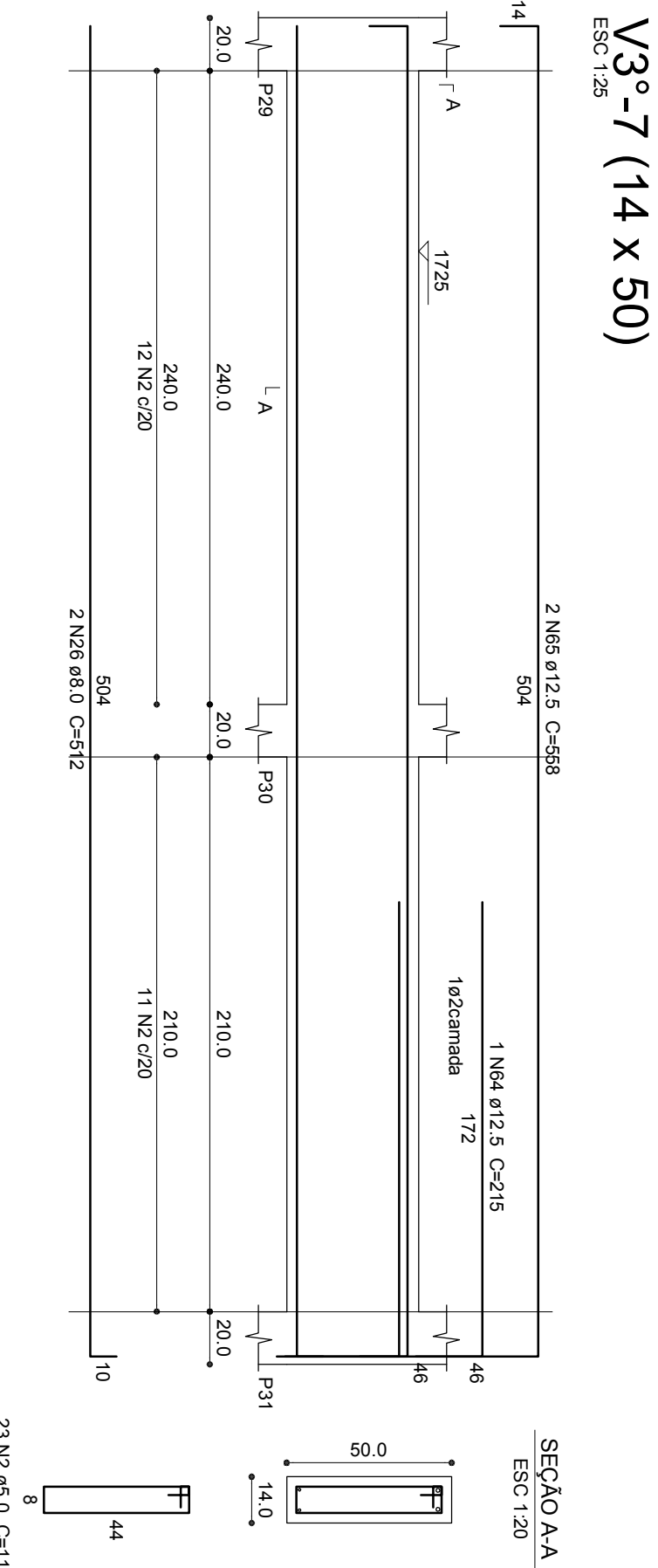
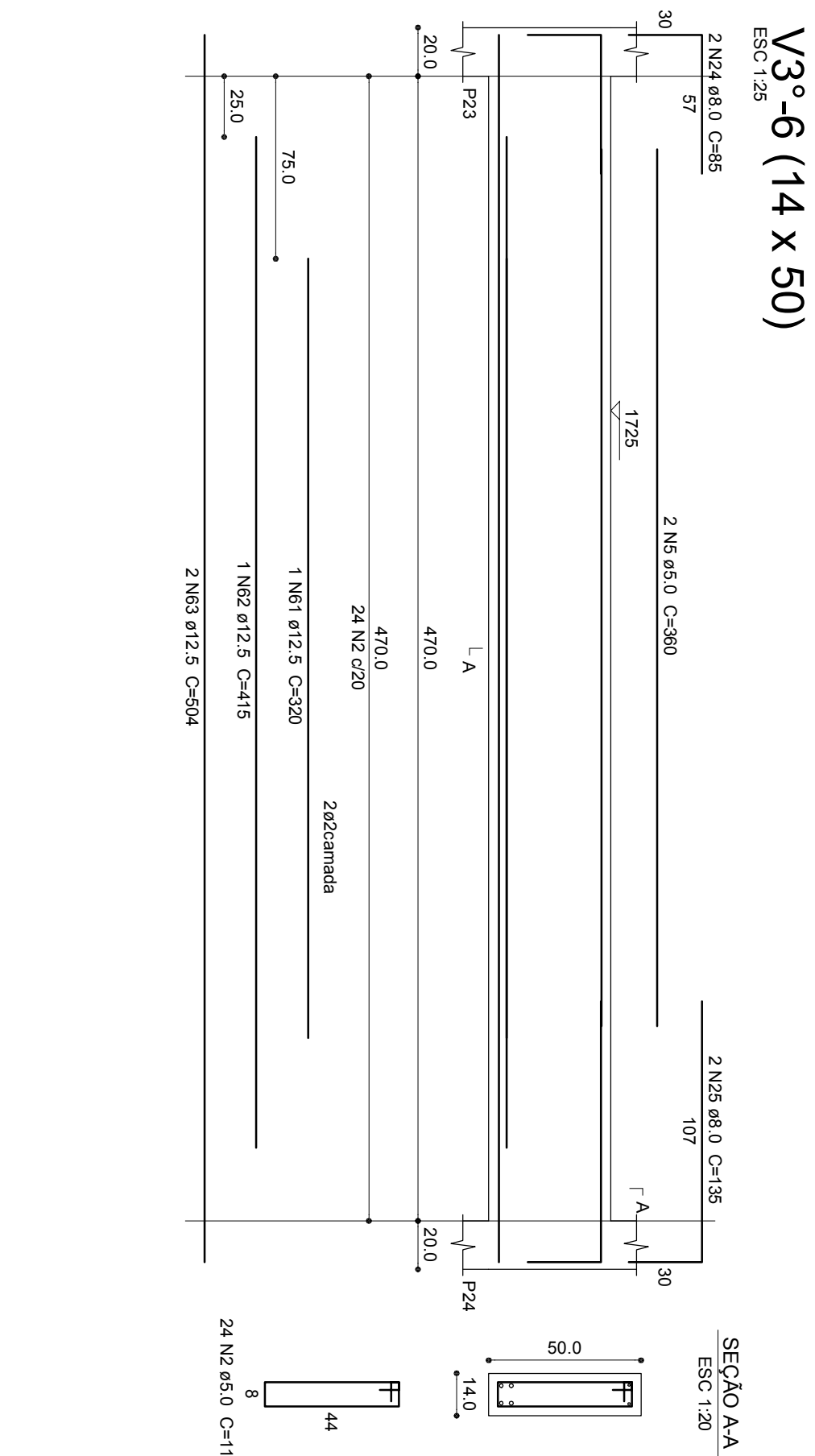
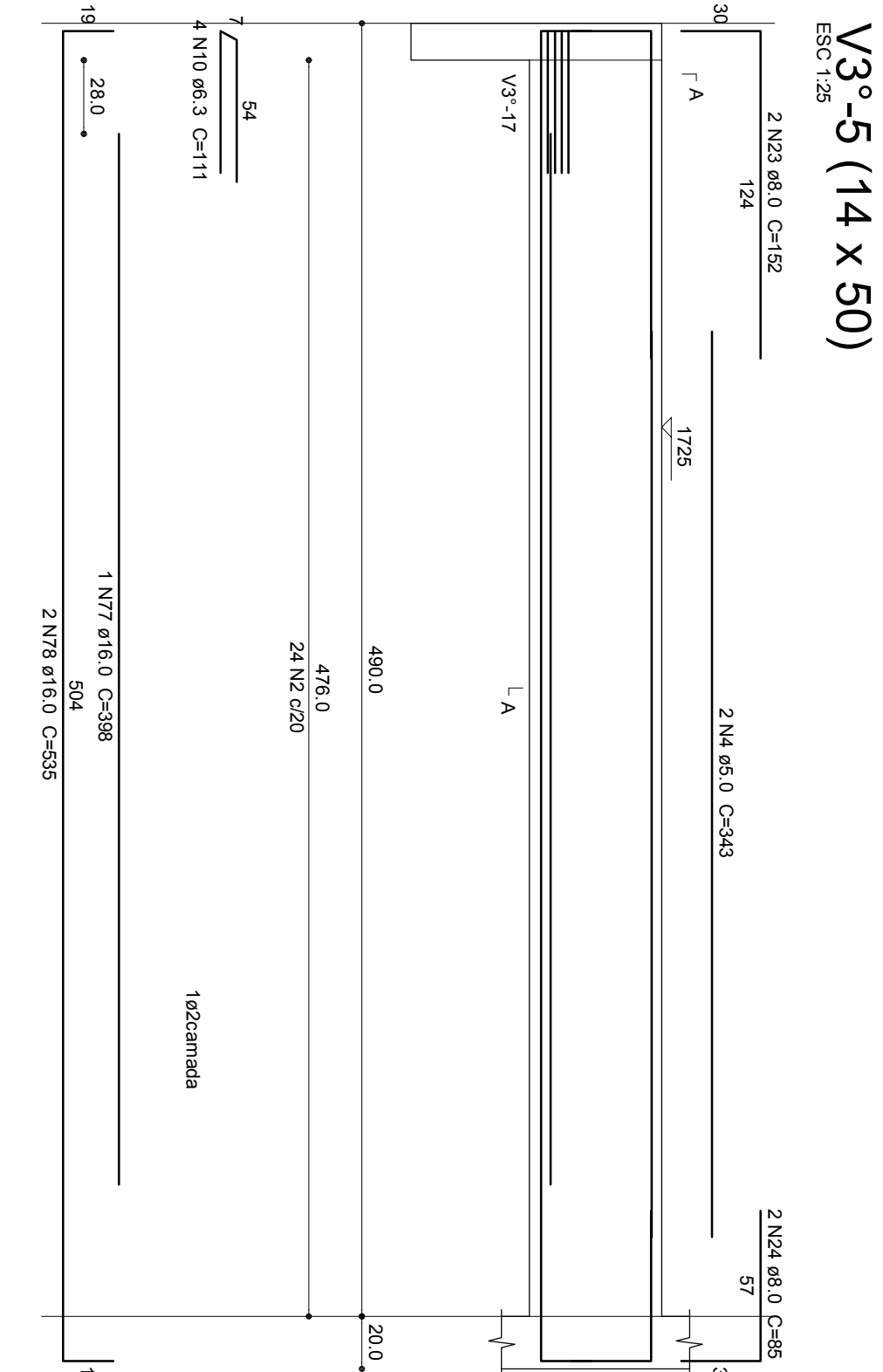
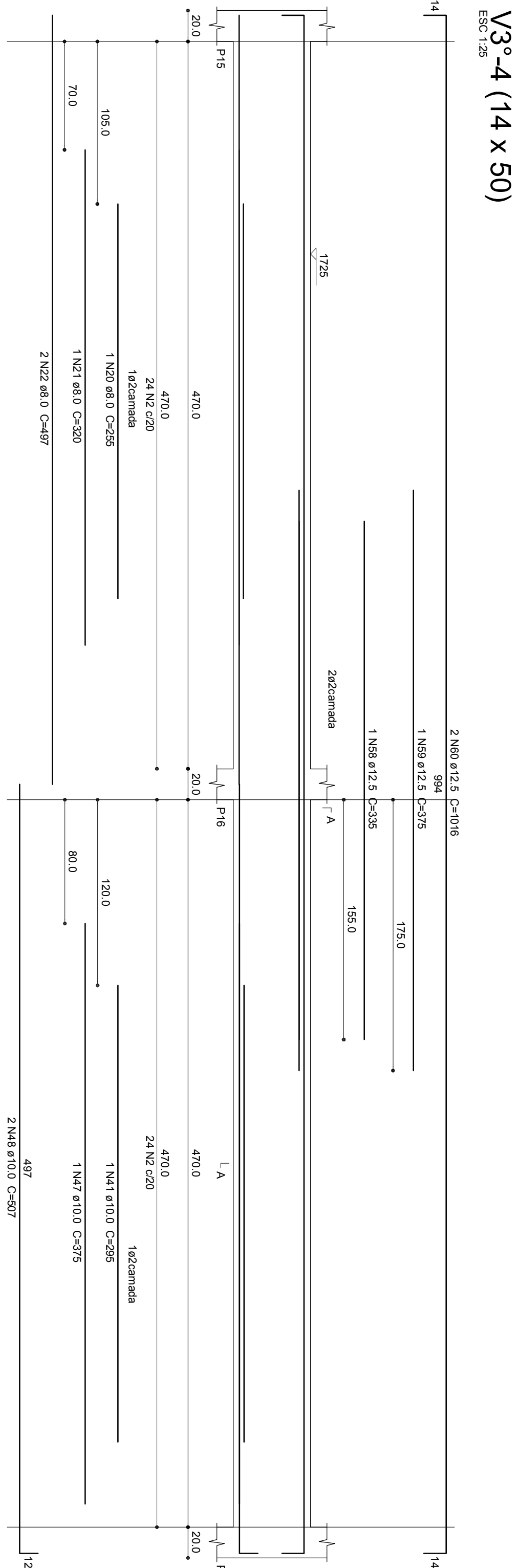
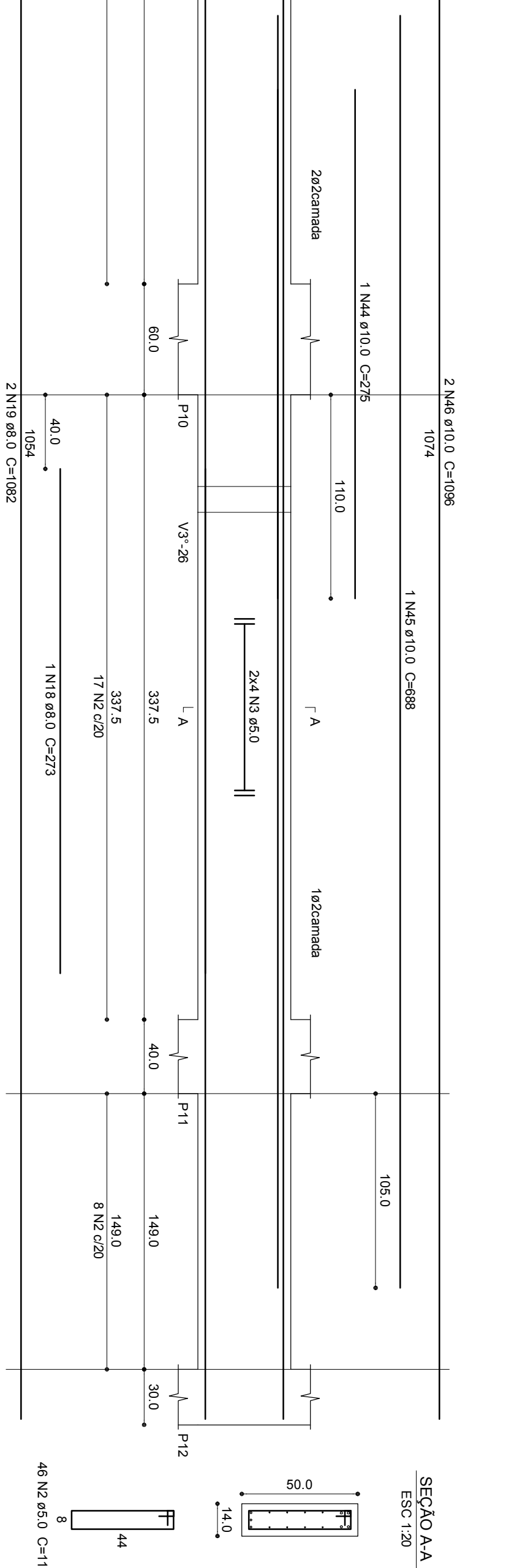
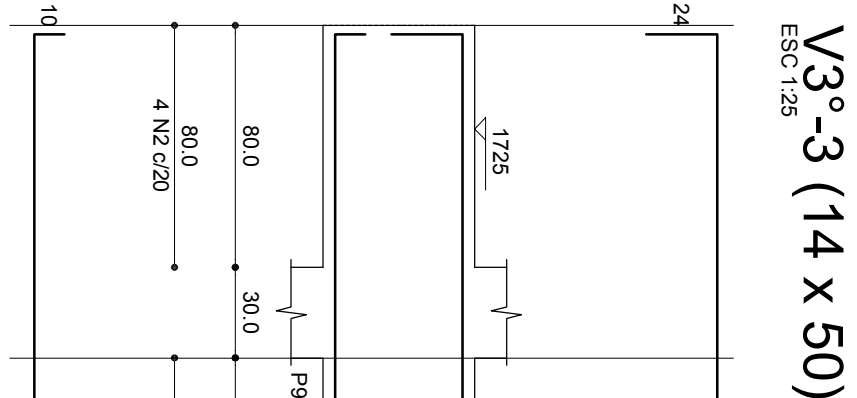
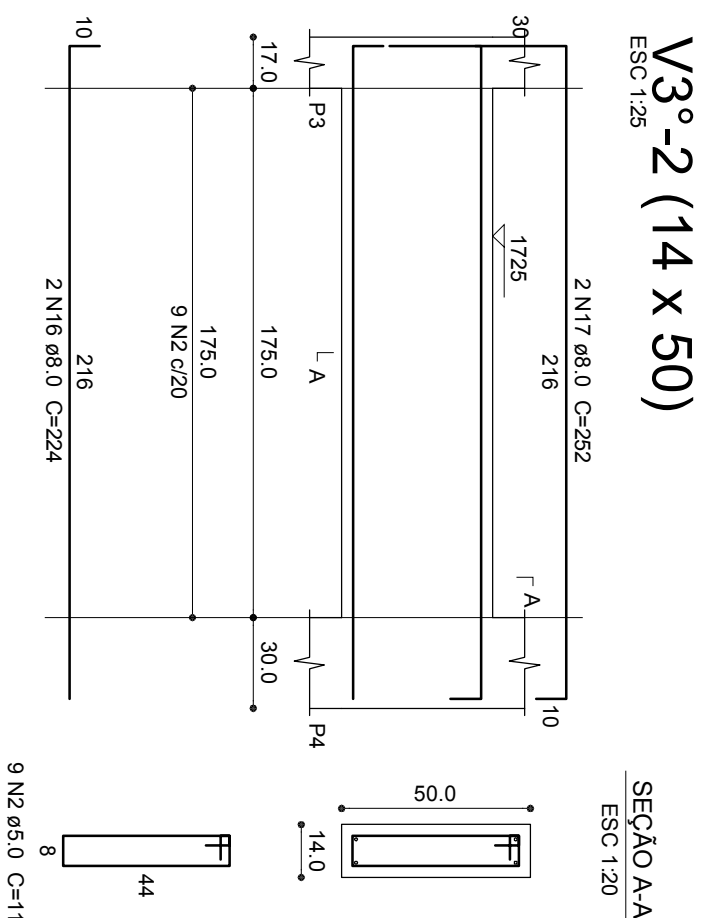
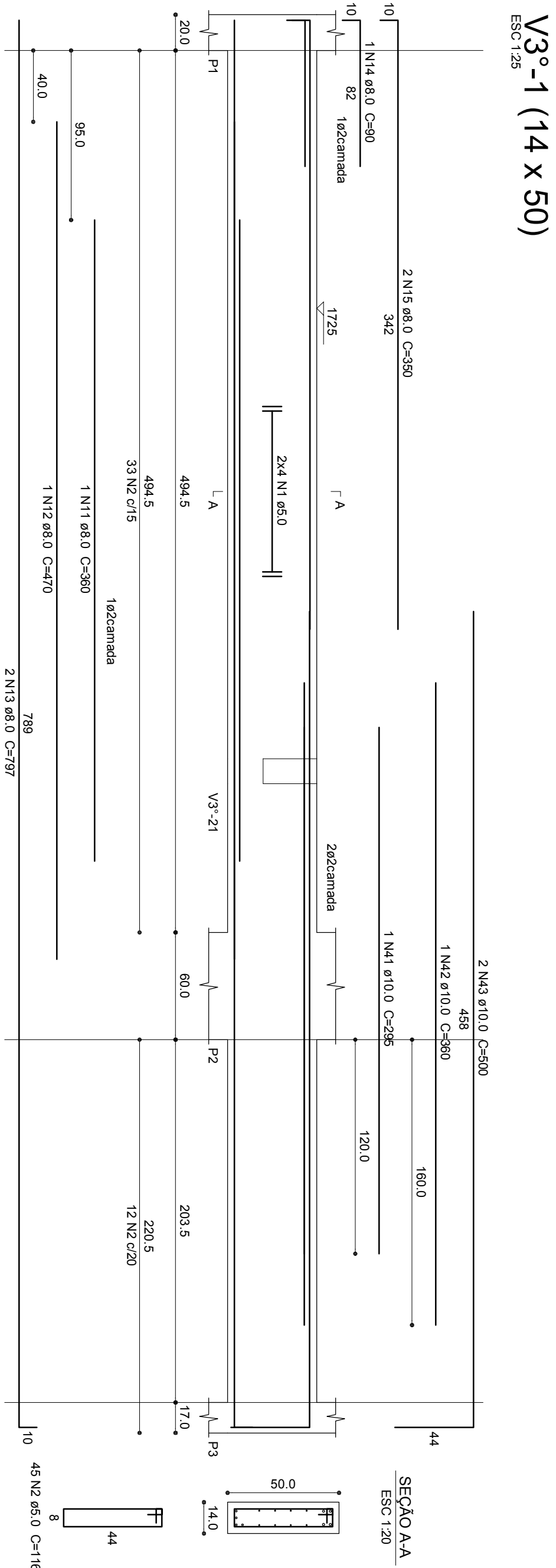
Identificações e Assinaturas

Assinatura: _____
Assinatura Responsável pelo Projeto: _____
Assinatura Responsável pela Execução: _____

Prancha

Conteúdo da Prancha: **PLARES DO 3º PAVTO.**

Número PR: **EST 27/47**

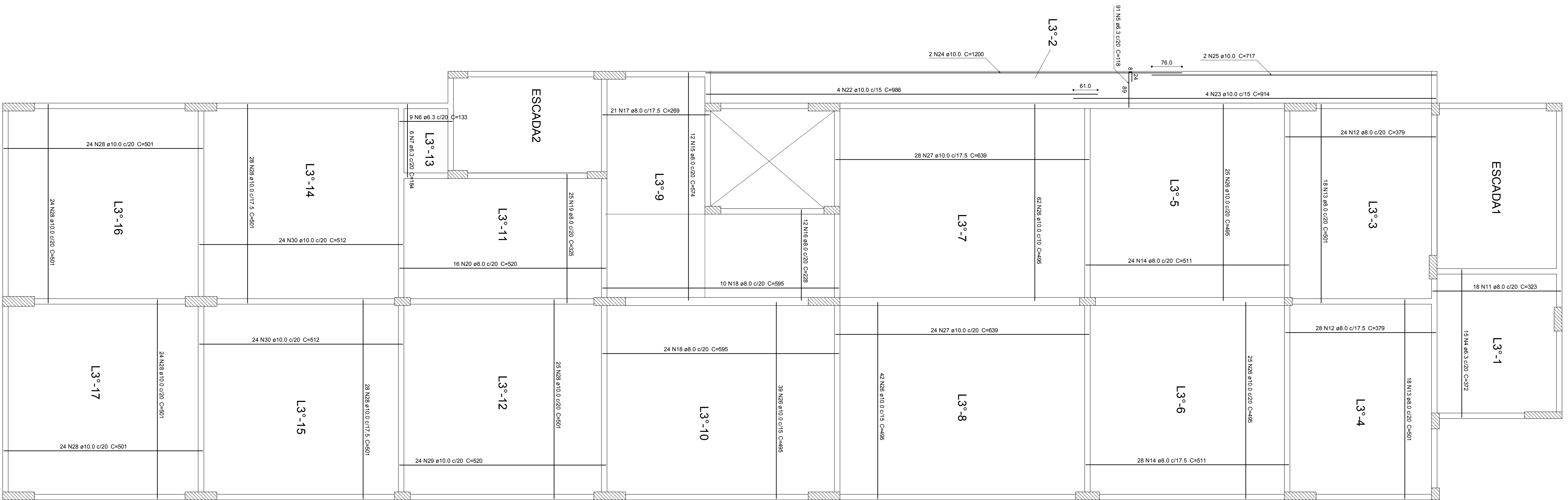
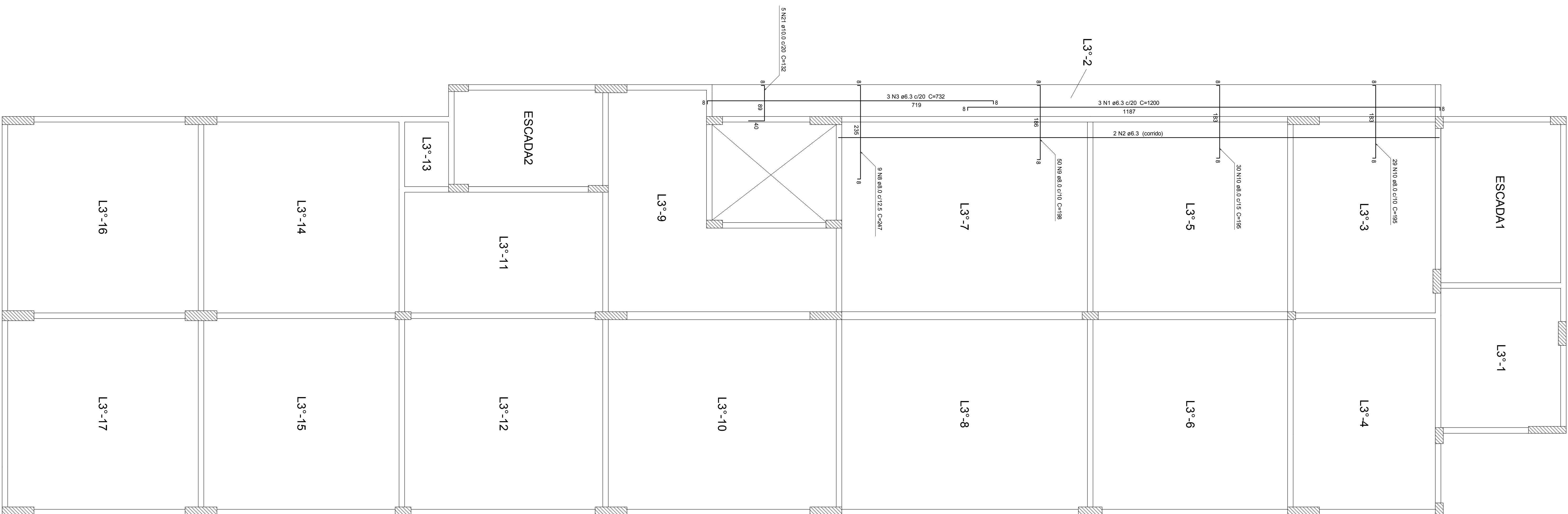


Relação do apno

[illegible]

AÇO	DIM (mm)	C.TOTAL (m)	PESO + 10 %	
			(kg)	
CA50	6,3	4,5	1,2	
	8,0	211,1	91,6	
	10,0	156,6	105,2	
	12,5	144,2	152,8	
	16,0	73,8	128,1	
CA60	5,0	821,2	139,2	
FCSO TOTAL				
	(kg)			
CA50		479,9		
CA60		139,2		



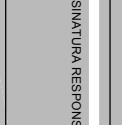

Francha	Identificações e Assinaturas	Terreno	Projeto
<p>INSTRUMENTO</p> <p>Matr. 1000</p> <p>1000</p> <p>3.280 m² 05/15</p> <p>Quilombo</p> <p>1000/05</p> <p>CONTINÚO DA FRANCHA</p> <p>VIGAS DO 3º PAVTO. (1)</p> <p>INSTRUMENTO</p> <p>Matr. 1000</p> <p>1000</p> <p>3.280 m² 05/15</p> <p>Quilombo</p> <p>1000/05</p> <p>CONTINÚO DA FRANCHA</p> <p>VIGAS DO 3º PAVTO. (1)</p> <p>INSTRUMENTO</p> <p>Matr. 1000</p> <p>1000</p> <p>3.280 m² 05/15</p> <p>Quilombo</p> <p>1000/05</p> <p>CONTINÚO DA FRANCHA</p> <p>VIGAS DO 3º PAVTO. (1)</p>	<p>PROPOSTA</p> <p>SECRETARIA DE SAÚDE DO MUNICÍPIO</p> <p>Quilombo Jangadeiro</p> <p>Proposta de reforma interna</p> <p>PROPOSTA</p> <p>SECRETARIA DE SAÚDE DO MUNICÍPIO</p> <p>Quilombo Jangadeiro</p> <p>Proposta de reforma interna</p> <p>PROPOSTA</p> <p>SECRETARIA DE SAÚDE DO MUNICÍPIO</p> <p>Quilombo Jangadeiro</p> <p>Proposta de reforma interna</p>	<p>INSTRUMENTO</p> <p>Matr. 1000</p> <p>1000</p> <p>3.280 m² 05/15</p> <p>Quilombo</p> <p>1000/05</p> <p>CONTINÚO DA FRANCHA</p> <p>VIGAS DO 3º PAVTO. (1)</p> <p>INSTRUMENTO</p> <p>Matr. 1000</p> <p>1000</p> <p>3.280 m² 05/15</p> <p>Quilombo</p> <p>1000/05</p> <p>CONTINÚO DA FRANCHA</p> <p>VIGAS DO 3º PAVTO. (1)</p> <p>INSTRUMENTO</p> <p>Matr. 1000</p> <p>1000</p> <p>3.280 m² 05/15</p> <p>Quilombo</p> <p>1000/05</p> <p>CONTINÚO DA FRANCHA</p> <p>VIGAS DO 3º PAVTO. (1)</p>	<p>USO E22</p> <p>HOSPITAL MUNICIPAL SÃO JOSÉ</p> <p>PROJETO ESTRUTURAL</p> <p>Área total 2.314,7 m²</p>

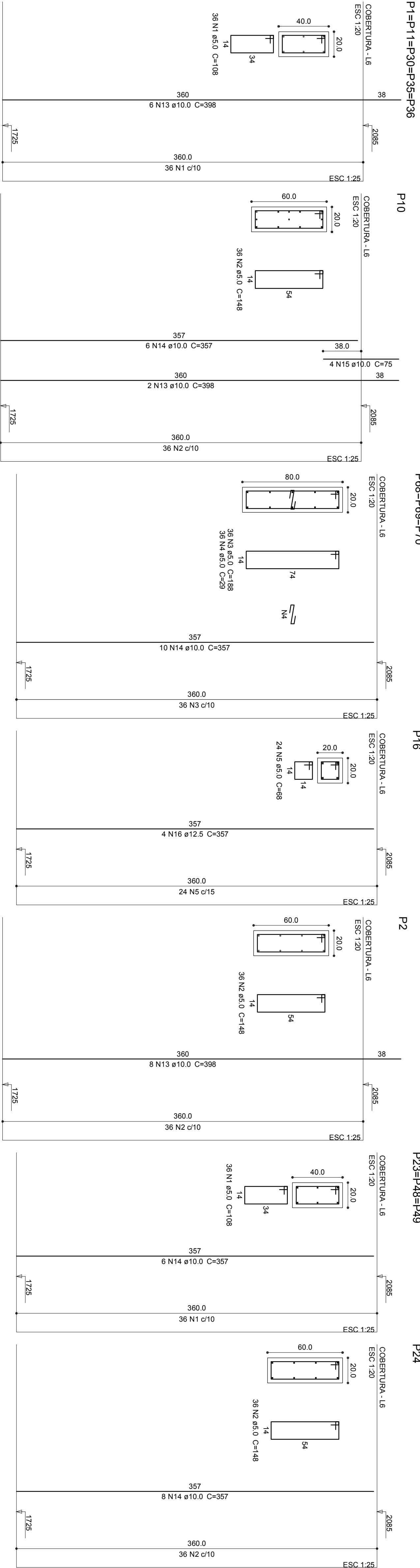


Negatives		Relatório do ano				
CD	N	DOM	QUANT	CUMT	C.TOTAL	
CASO	1	6,3	3	262	260	
	2	6,3	12	1510	2480	
	3	6,3	14	2770	3960	
	4	6,3	16	4380	5640	
	5	6,3	9	1118	10728	
	6	6,3	6	184	1164	
	7	6,3	6	198	1154	
	8	6,3	6	198	1154	
	9	6,3	6	247	1165	
	10	6,3	59	1198	11655	
	11	6,3	198	11655	11655	
	12	6,3	375	11978	11978	
	13	6,3	268	501	18035	
	14	6,3	268	501	18035	
	15	6,3	268	501	18035	
	16	6,3	268	501	18035	
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	19	6,3	268	501	18035	
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66	6,3	268	501	18035		
67	6,3	268	501	18035		
68	6,3	268	501	18035		
69	6,3	268	501	18035		
70						

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CASO	6,3	286,2	68,9
	8,0	1445,3	627,3
	10,0	2684,9	1807,3
PESO TOTAL (kg)			
CASO 2503,6			

Volume de concreto (C-25) = 45,01 m³
Área de forma = 369,5 m²

Franchisa	Identificação e Assinaturas	Terreno	Projeto
 <p>ASSOCIAÇÃO DE MUNICÍPIOS DO NORDESTE DO ESTADO DE SANTA CATARINA Rua 1000 - CONSULTEC - 1302 - Alameda Nelson - 1302 - Centro - 13040-007 - São José do Rio Preto - SP Fone: (13) 3322-1100 e-mail: assocmunic@nordeste.org.br CNPJ nº 06.908.088/0001-00</p> <p>Endereço: Rua Municipal de São José</p> <p>Valdirene Maciel Costa</p>	<p>SECRETARIA DE SAÚDE DO MUNICÍPIO</p> <p>Nome: Guilherme Antonio Paul Endereço: Rua Celso de Figueiredo, 3</p> <p>Assinatura: </p> <p>Assinatura: </p>	<p>FUNDO MUNICIPAL DE SAÚDE DE JOINVILLE</p> <p>Endereço: Rua 1000 - CONSULTEC - 1302 - Alameda Nelson - 13040-007 - São José do Rio Preto - SP</p> <p>Assinatura: </p>	<p>HOSPITAL MUNICIPAL SÃO JOSÉ</p> <p>PROJETO ESTRUTURAL</p> <p>Área total: 2.314,71 m²</p>
<p>CONTEÚDO DA FRANCHISA</p> <p>Atividade: LABORES DO 3º PAVO.</p> <p>Atividade: LABORES DO 3º PAVO.</p>			
<p>INSTRUMENTOS</p> <p>Estudo: 31/147</p>			

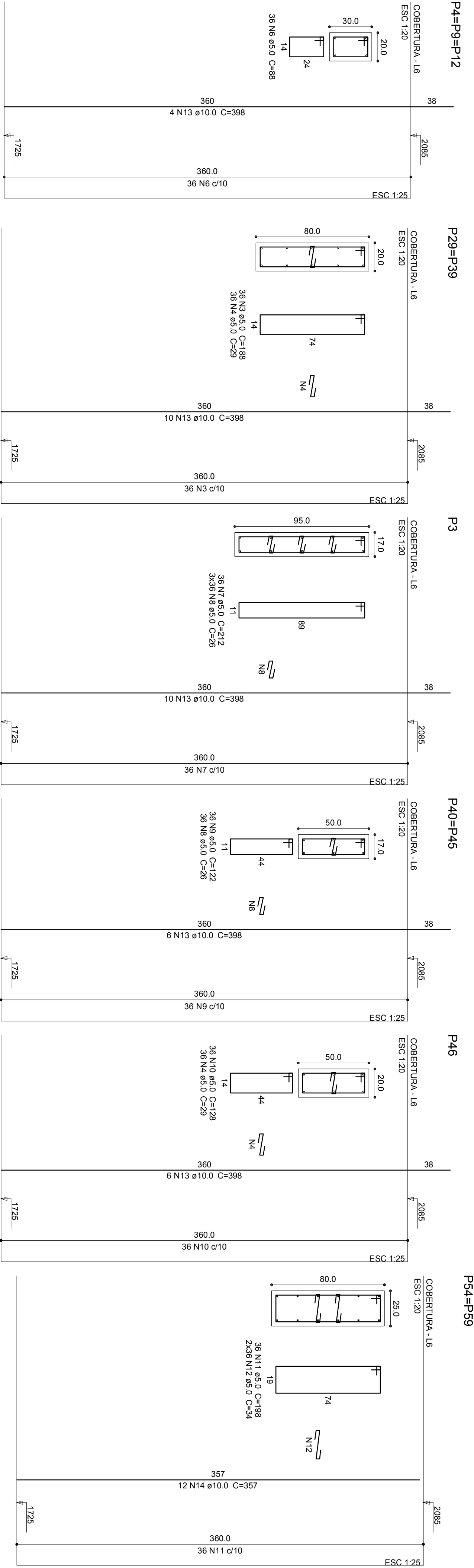


Relação do aço				
SAF1	P2	P3		
SAF4	P10	10xP15		
P16	3xP23	P24		
2xP54	2xP40	P46		

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	288	108	31104
	2	5.0	108	148	15984
	3	5.0	108	148	15984
	4	5.0	468	28	13572
	5	5.0	24	68	1632
	6	5.0	108	88	9504
	7	5.0	36	212	7632
	8	5.0	180	26	4680
	9	5.0	12	72	864
	10	5.0	32	128	4096
CA50	11	5.0	72	188	14456
	12	10.0	100	398	39800
	13	10.0	196	357	55692
	14	10.0	196	357	55692
	15	10.0	4	300	1200
	16	12.5	4	357	1428

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	956	640.7
CA60	12.5	14.3	15.1
CA60	5.0	1978.7	355.5
PESO TOTAL (kg)			
CA50	654.8		
CA60	355.5		

Volume de concreto (C-25) = 14.3 m³
Área de forma = 189.79 m²



Associação de Municípios do Nordeste do Estado de Santa Catarina
88714-000 - JOINVILLE - SC - Rua Mar Colln, 1843 - Antelias - Fone: (047) 433.9377
ASSOCIAÇÃO E COORDENADORIA DE PLANEJAMENTO URBANO, MUNICIPAL E REGIONAL
Home Page : www.ammunesc.org.br
CNEC SC 46-025-4

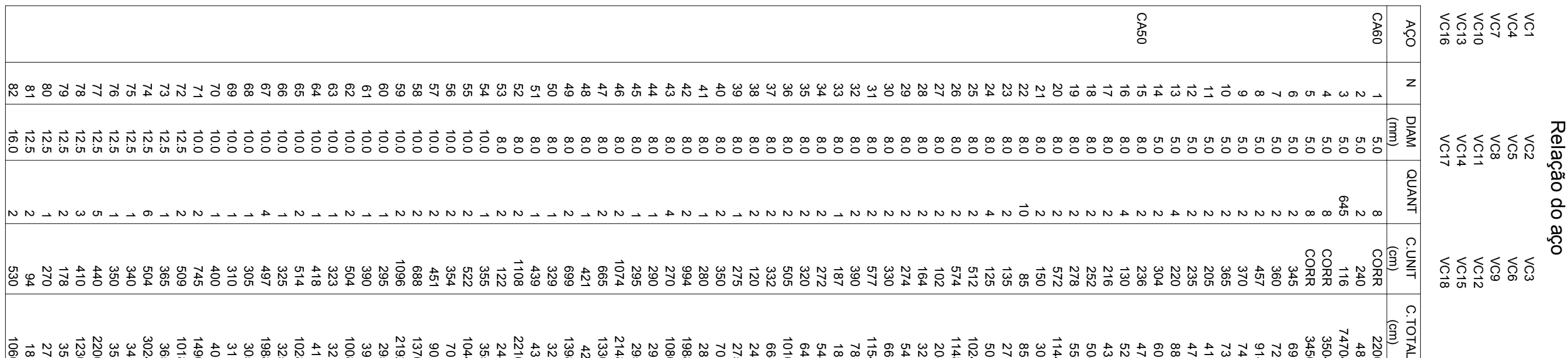
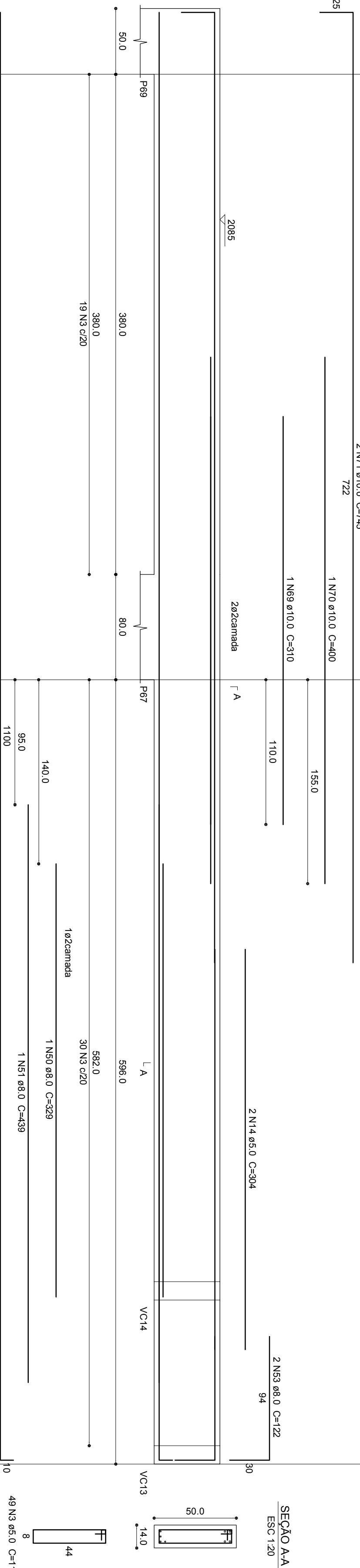
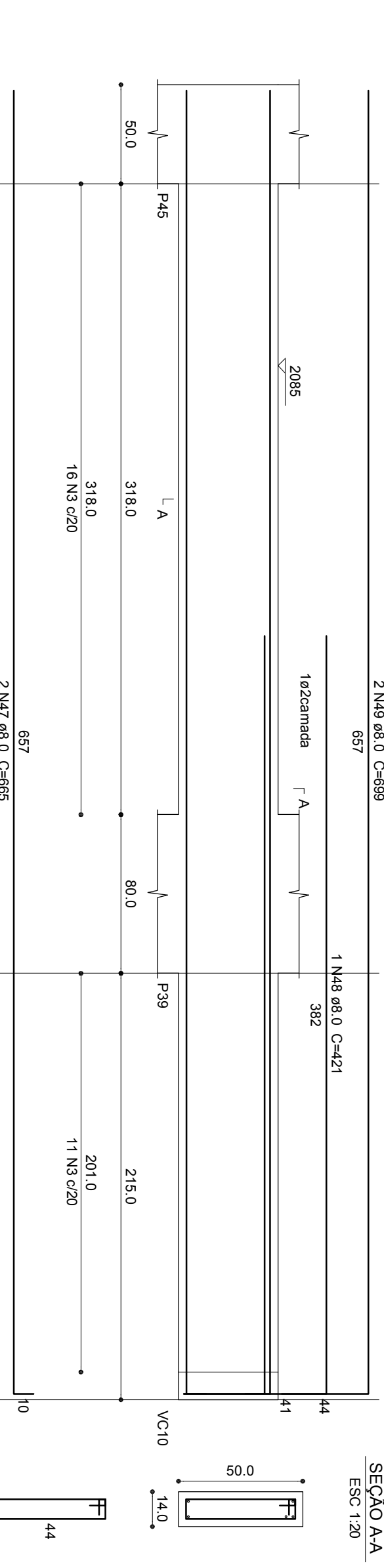
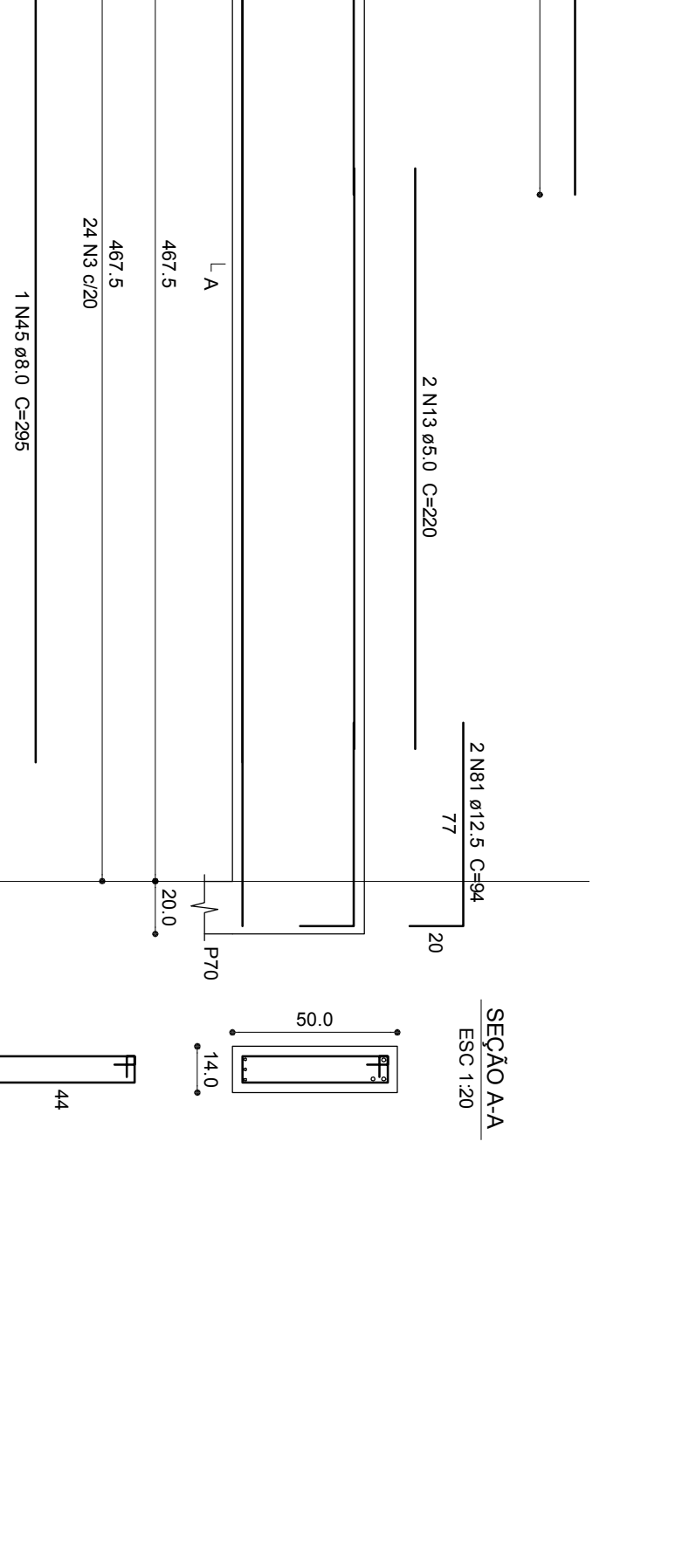
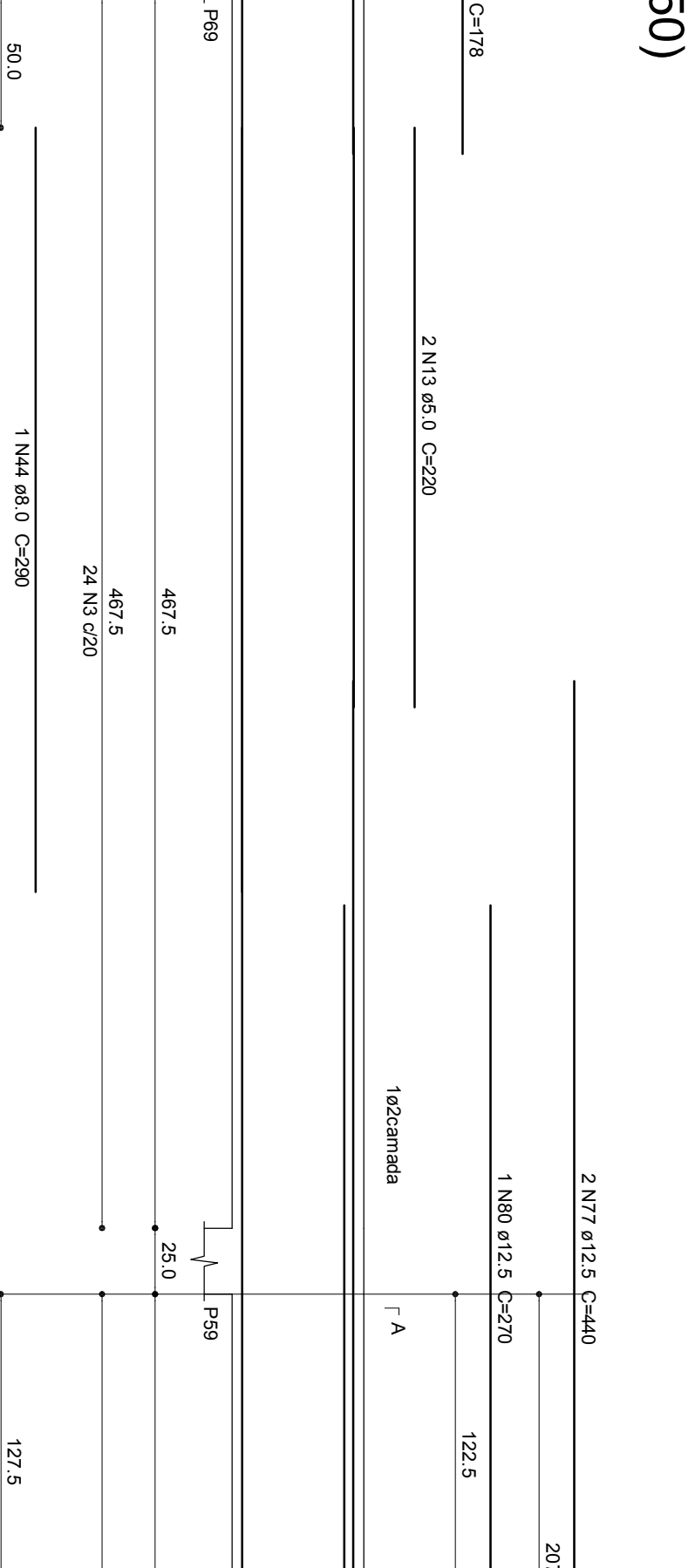
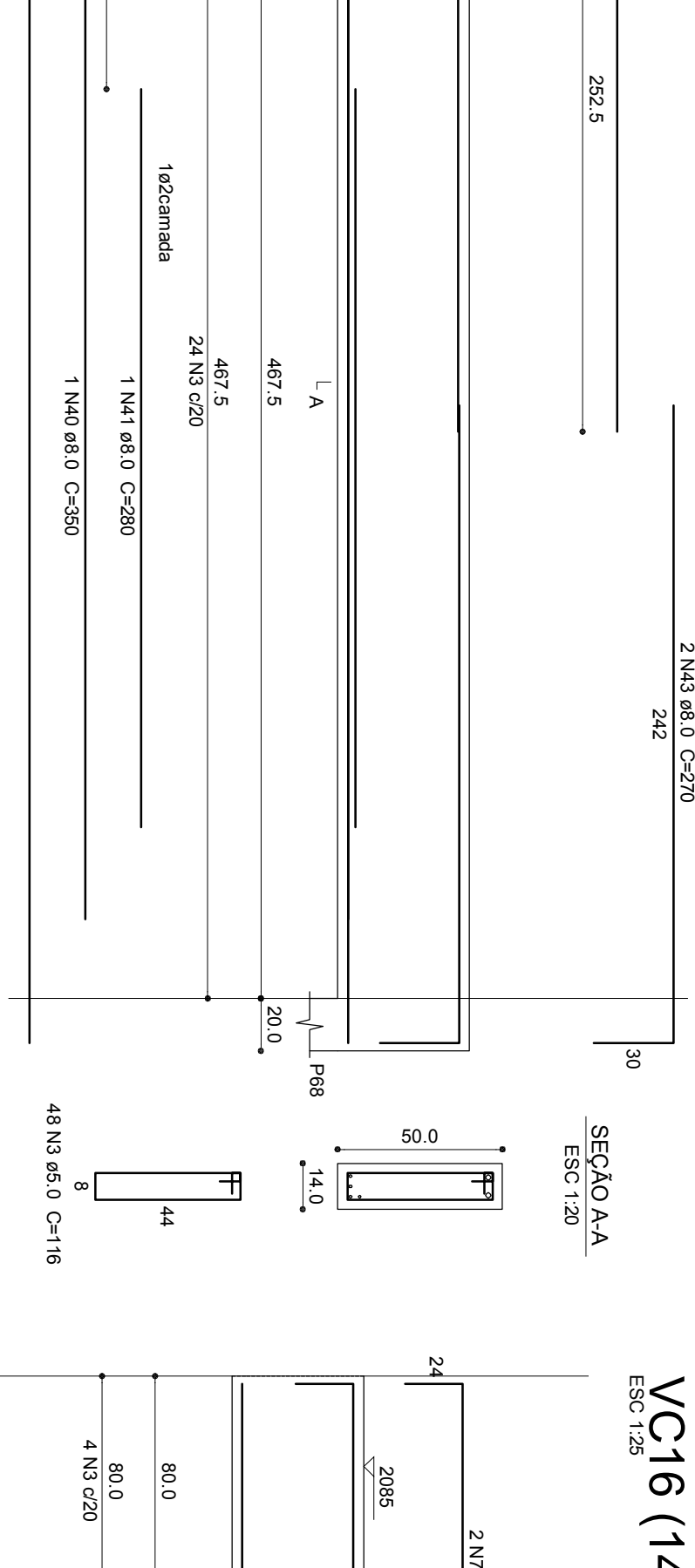
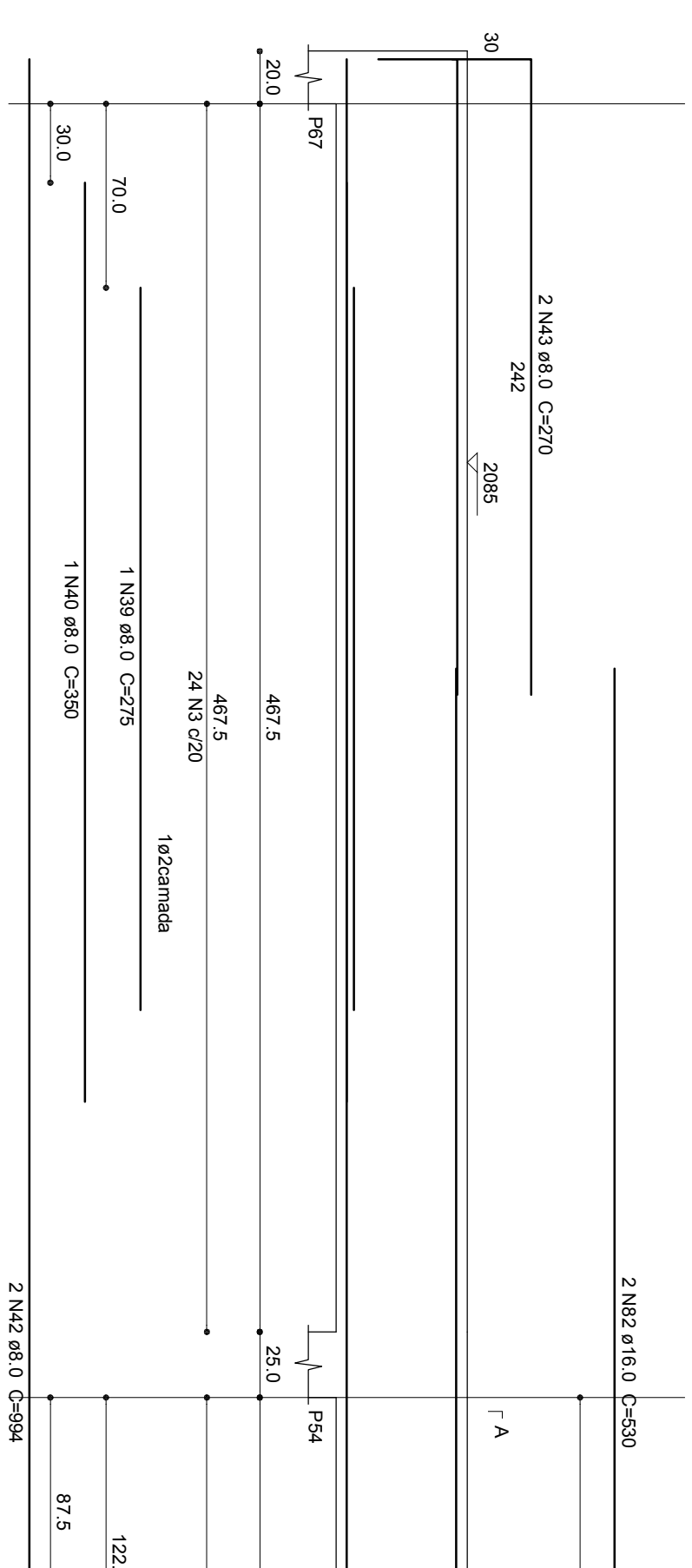
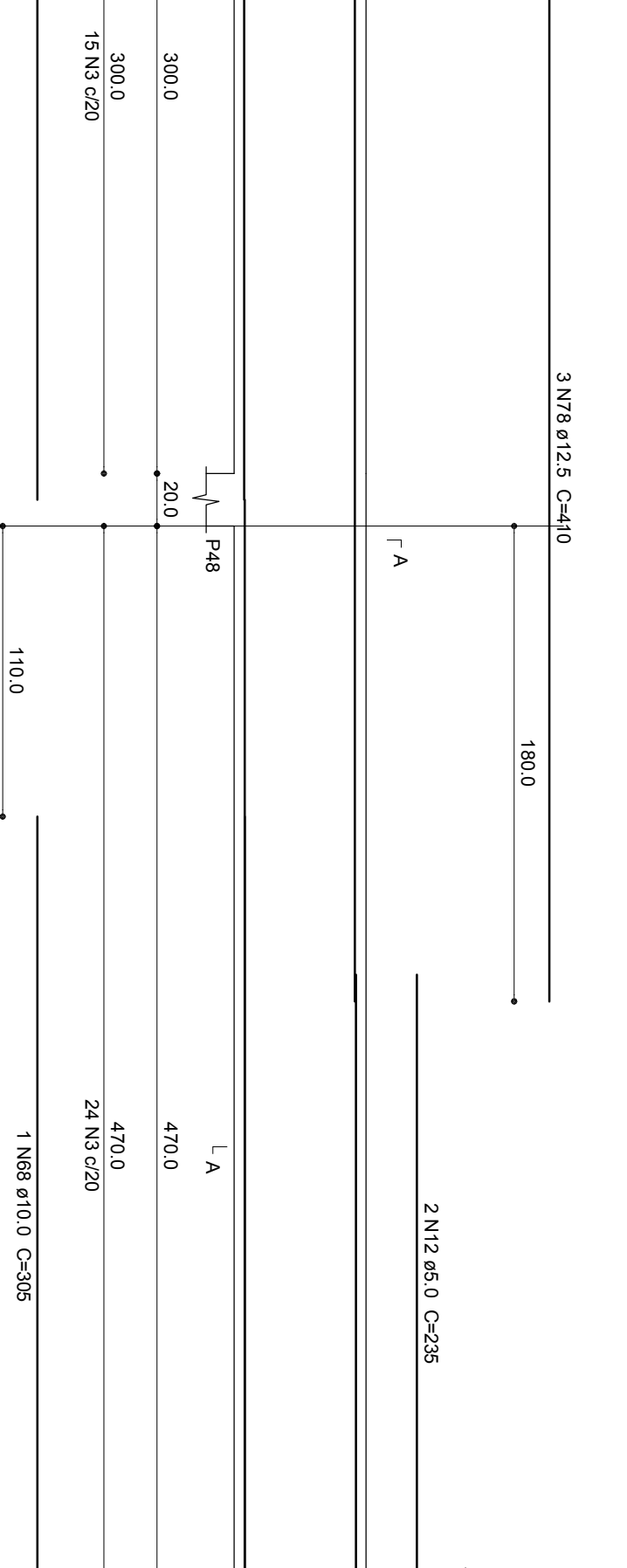
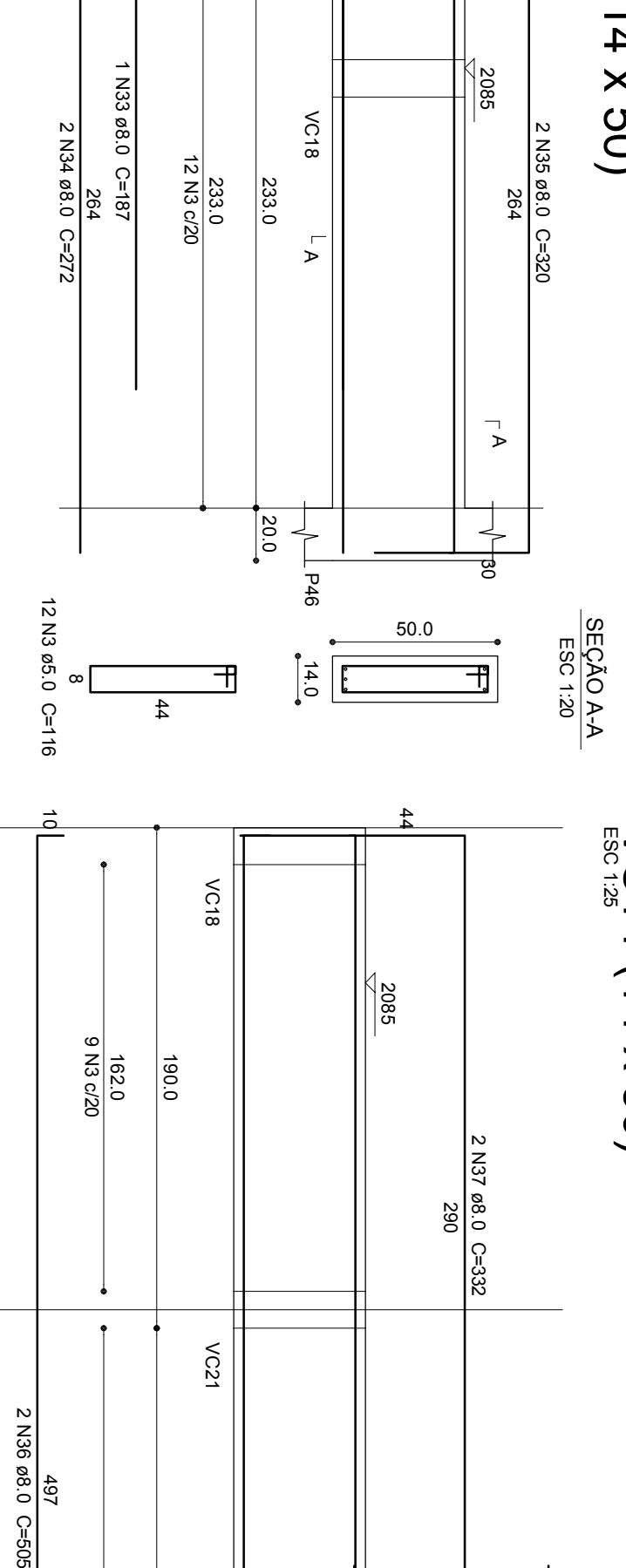
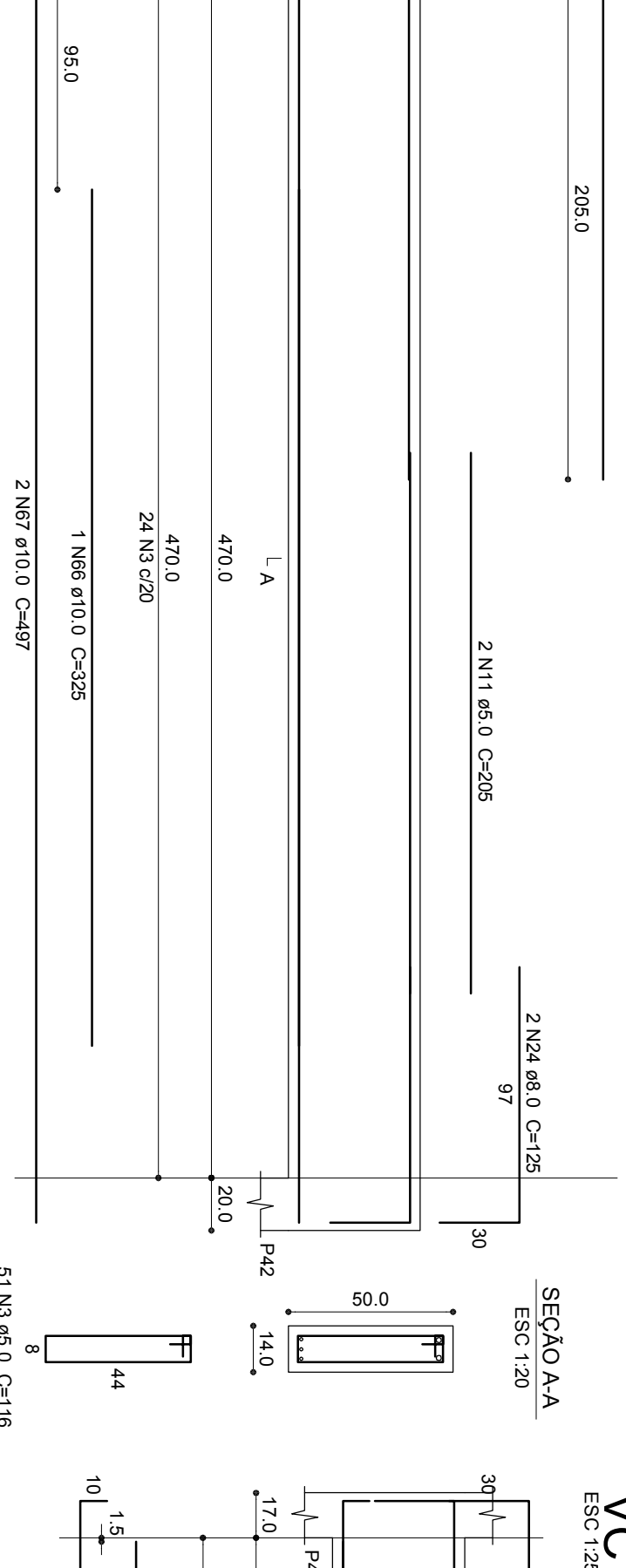
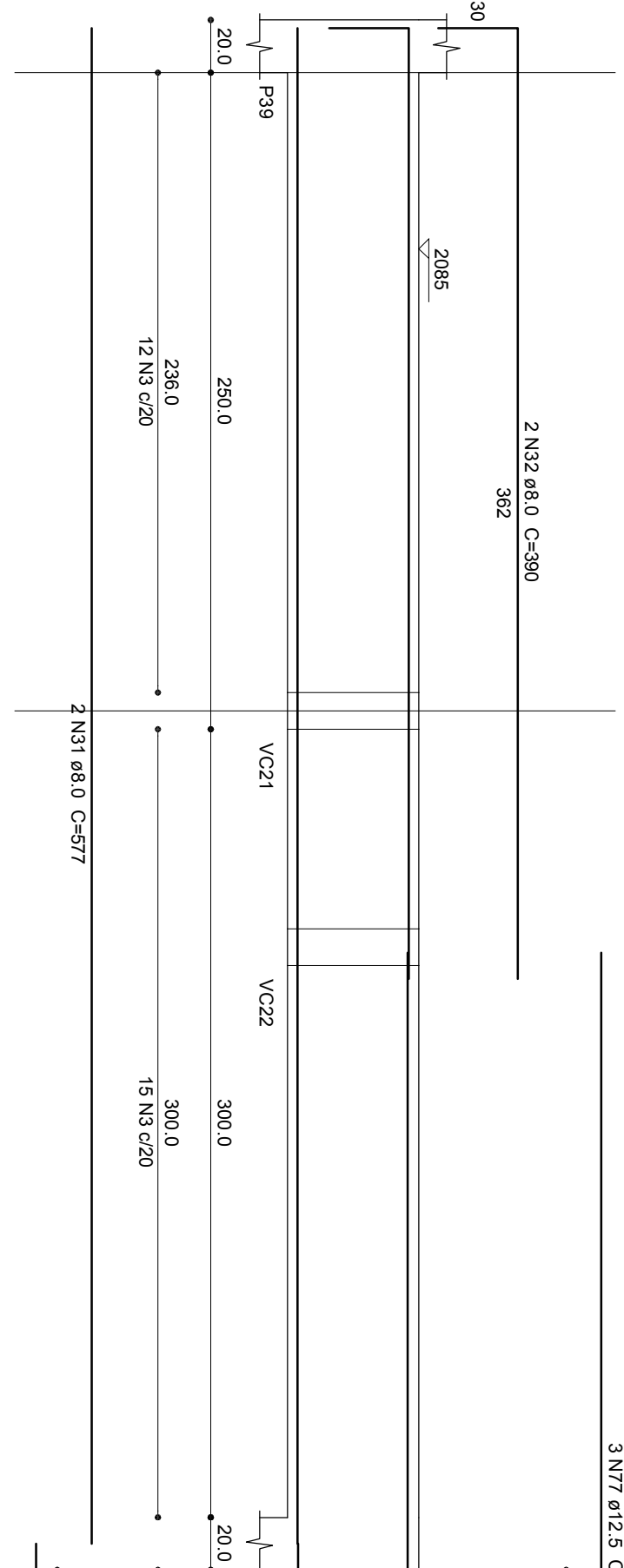
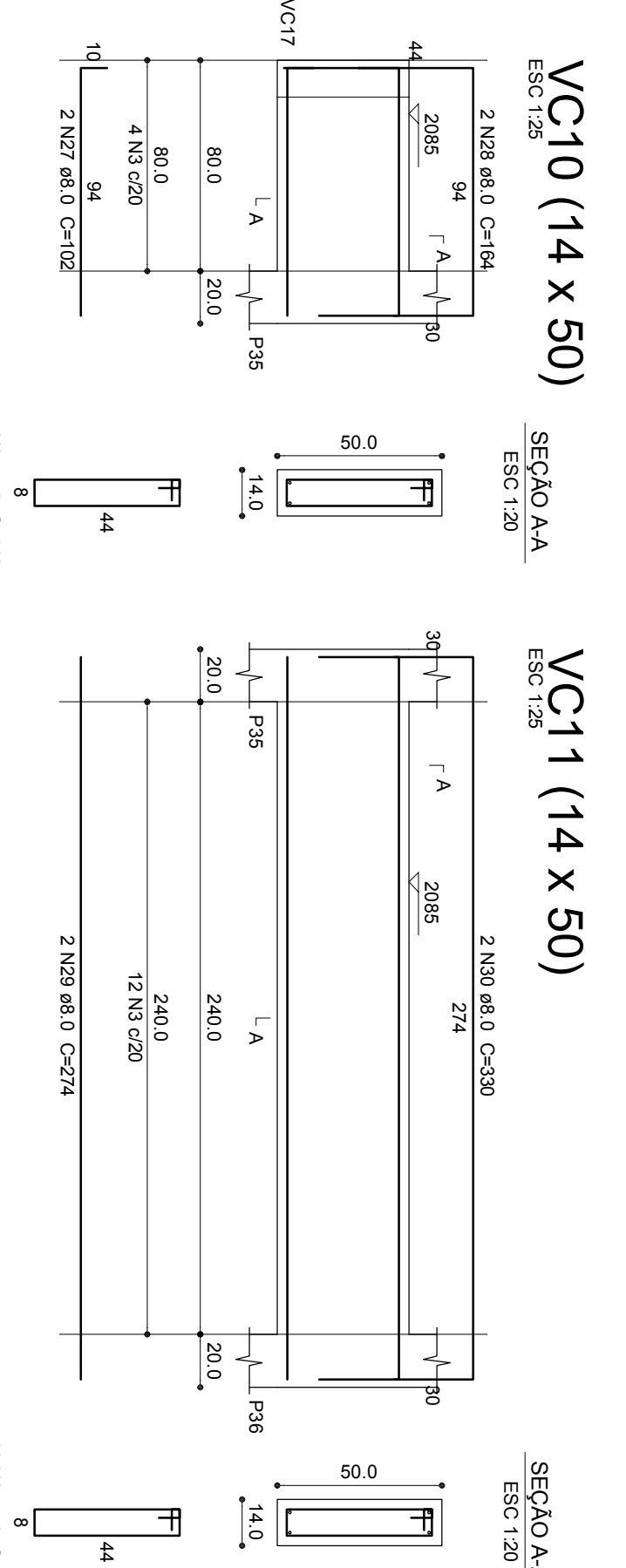
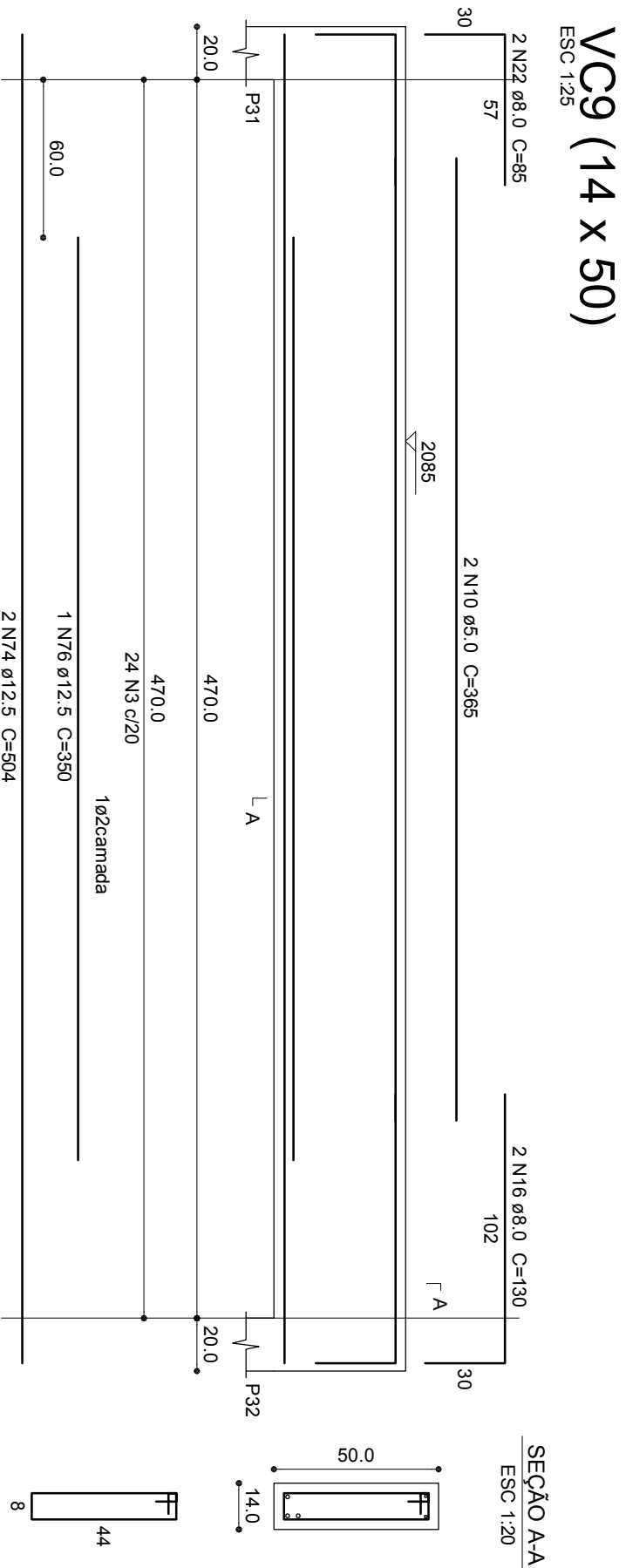
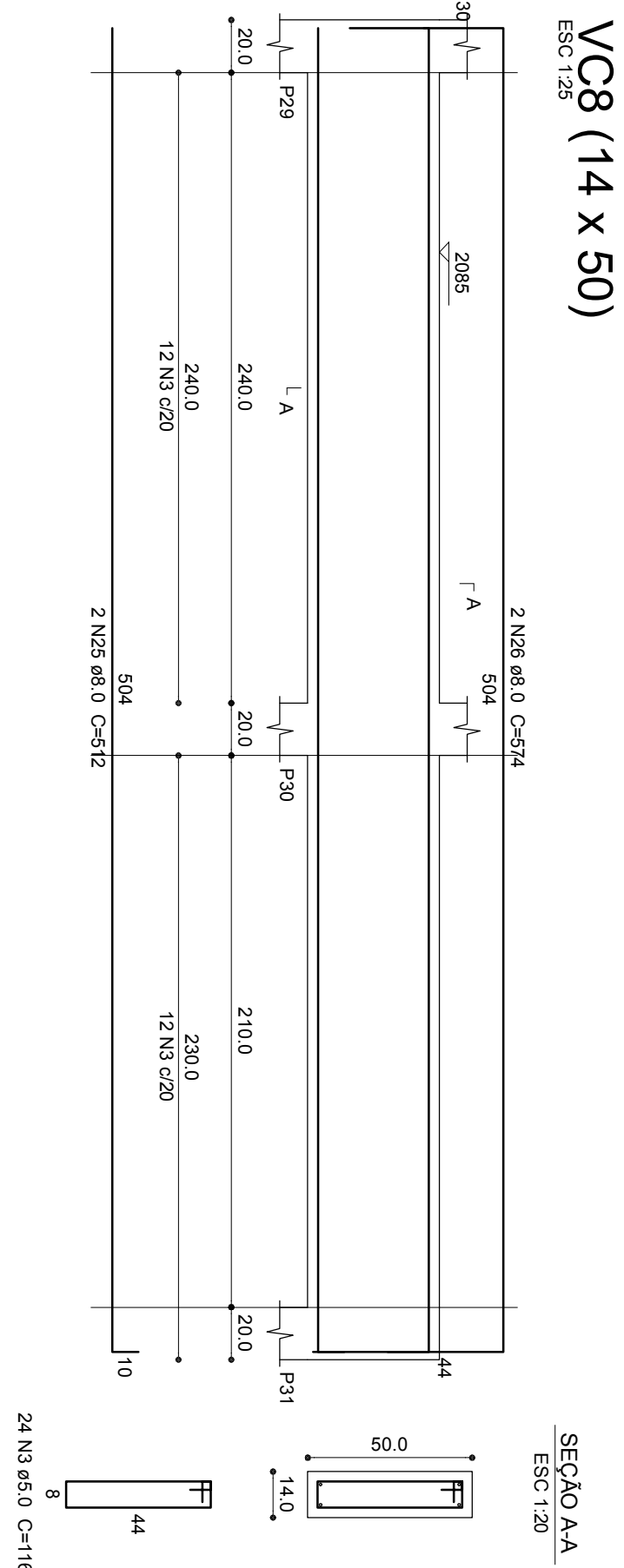
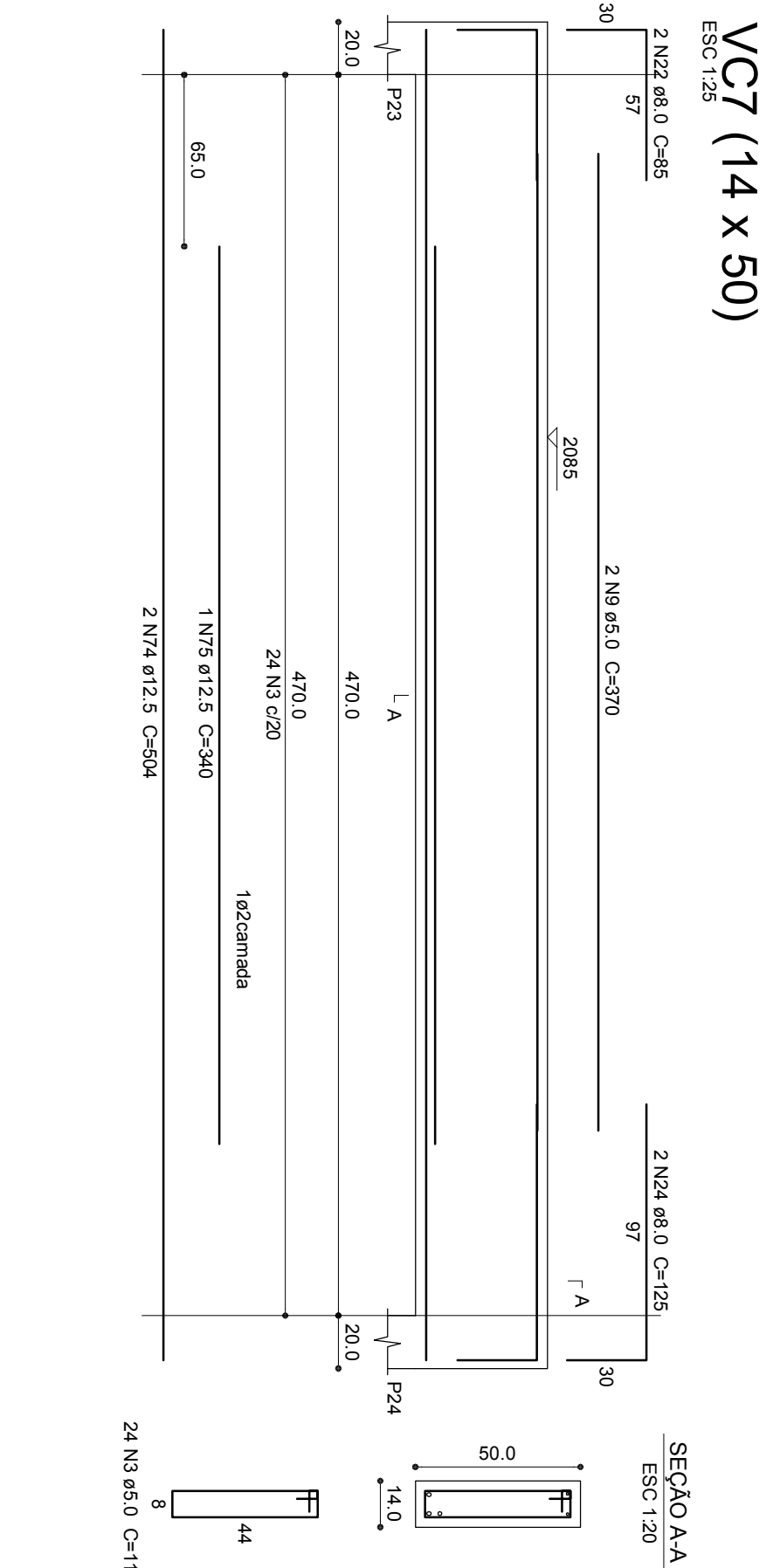
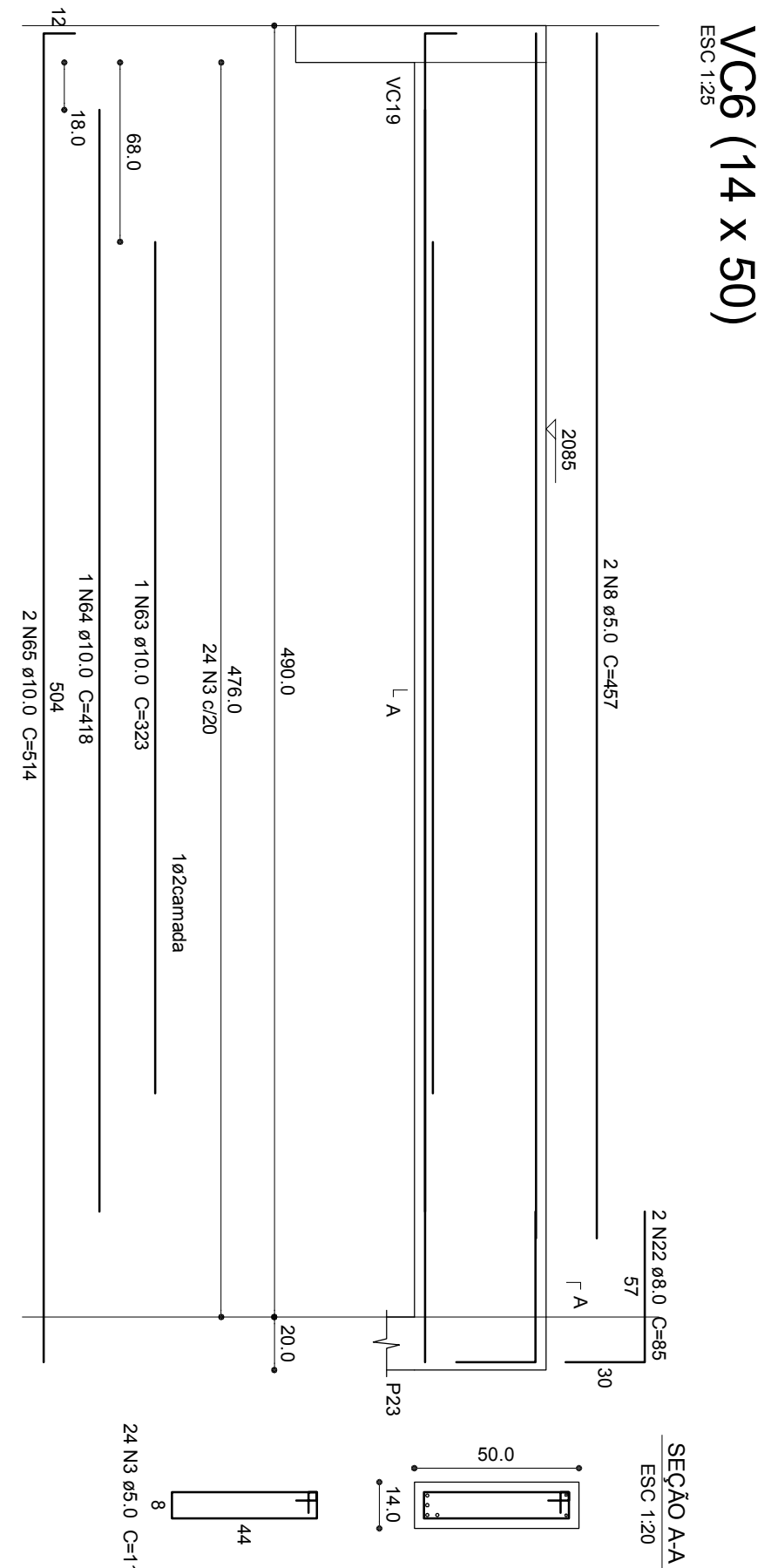
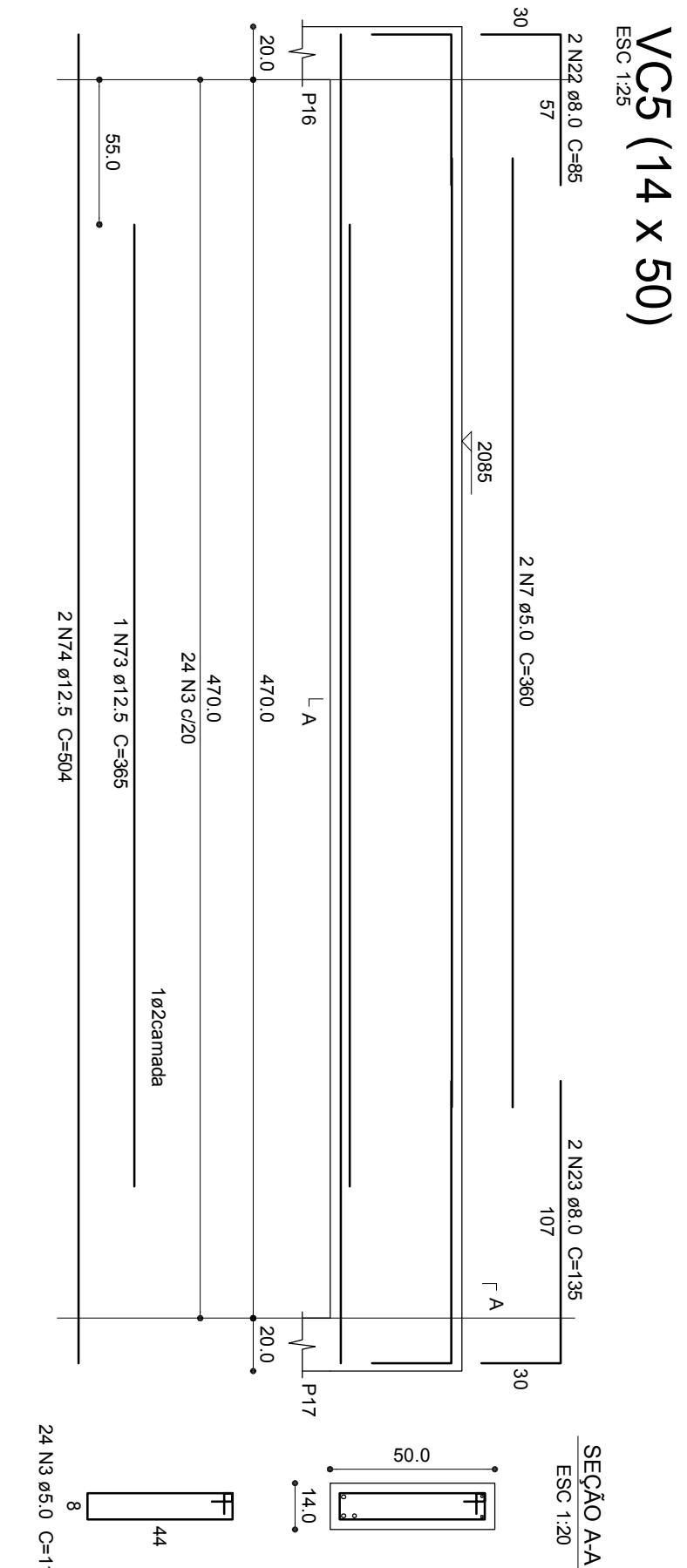
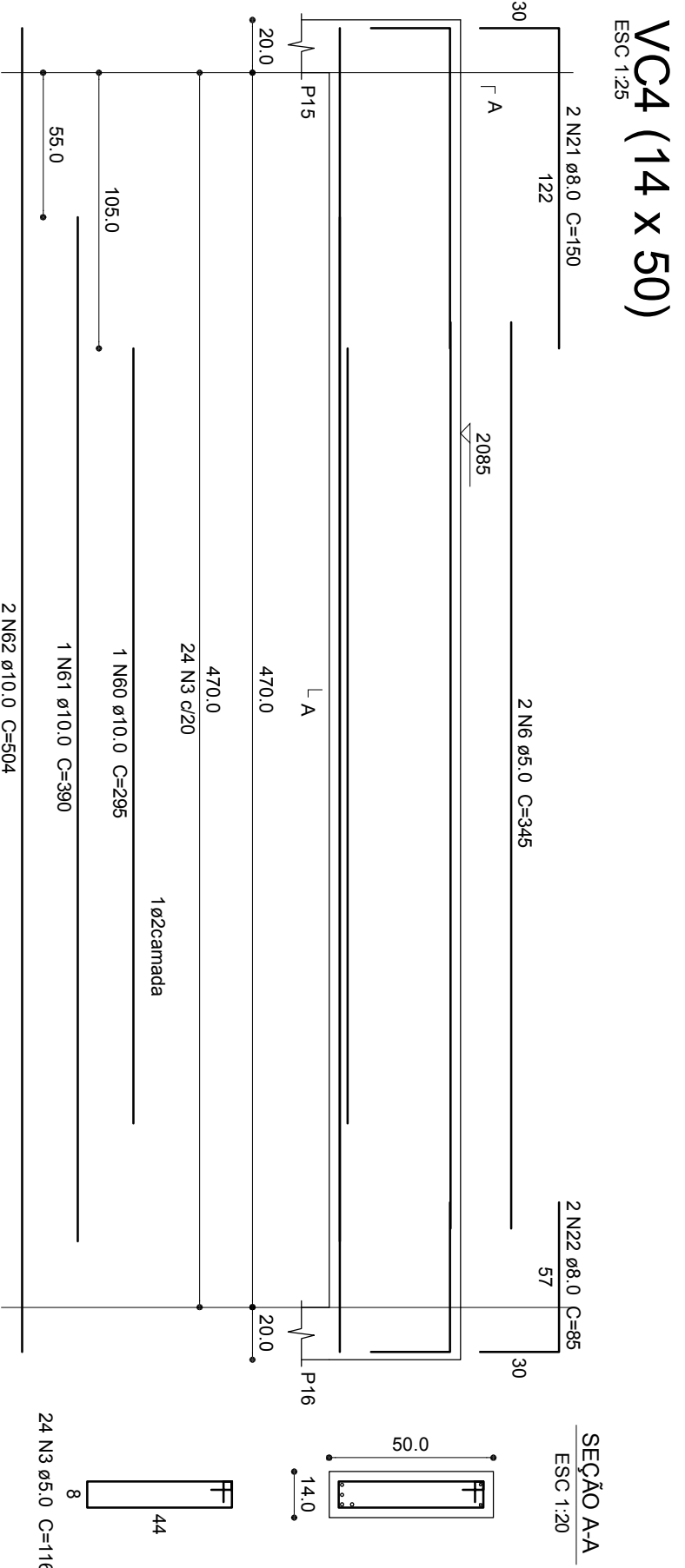
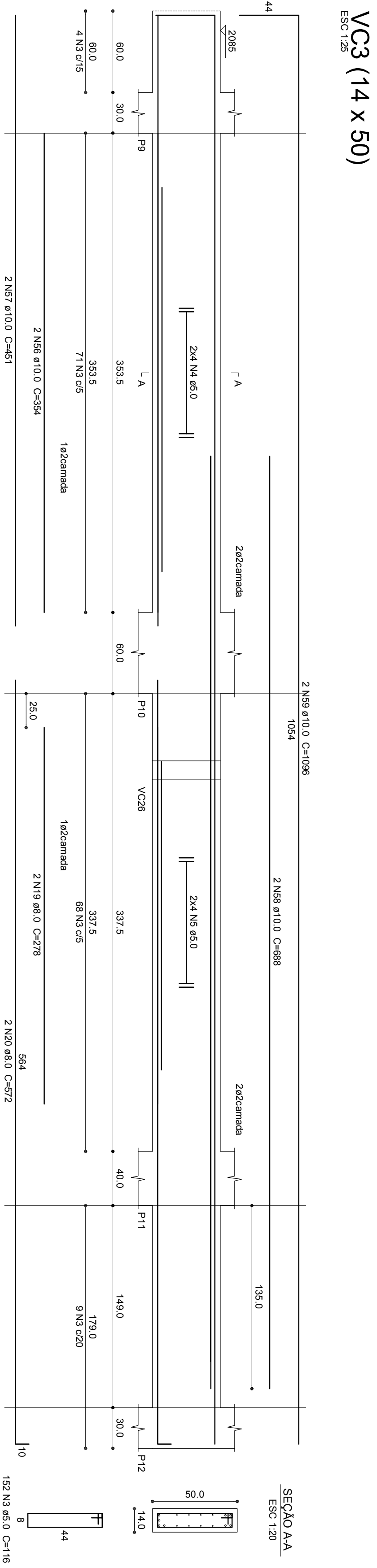
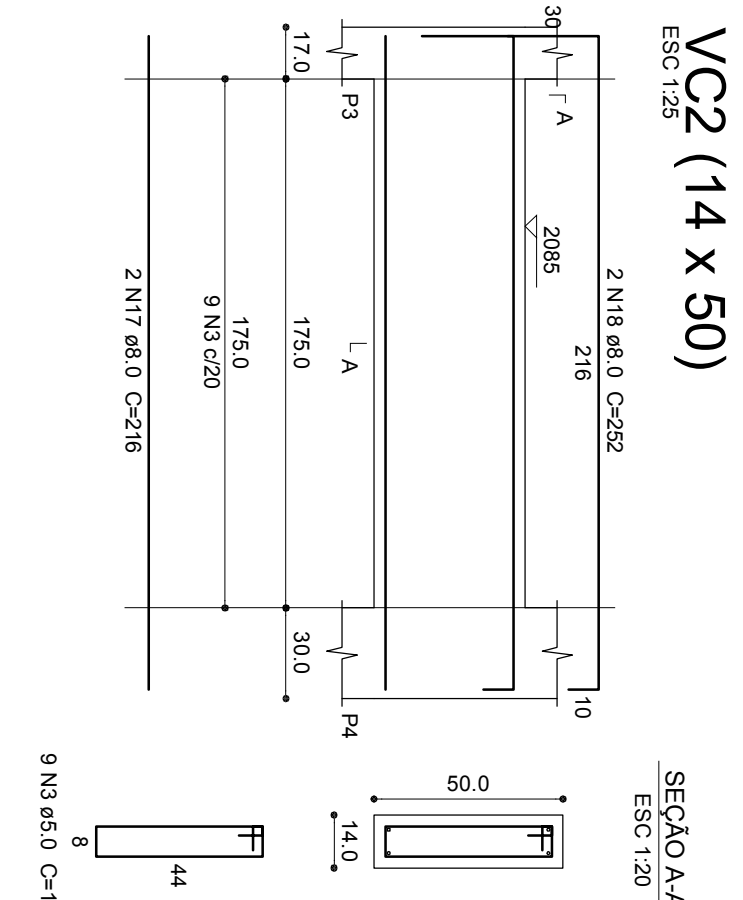
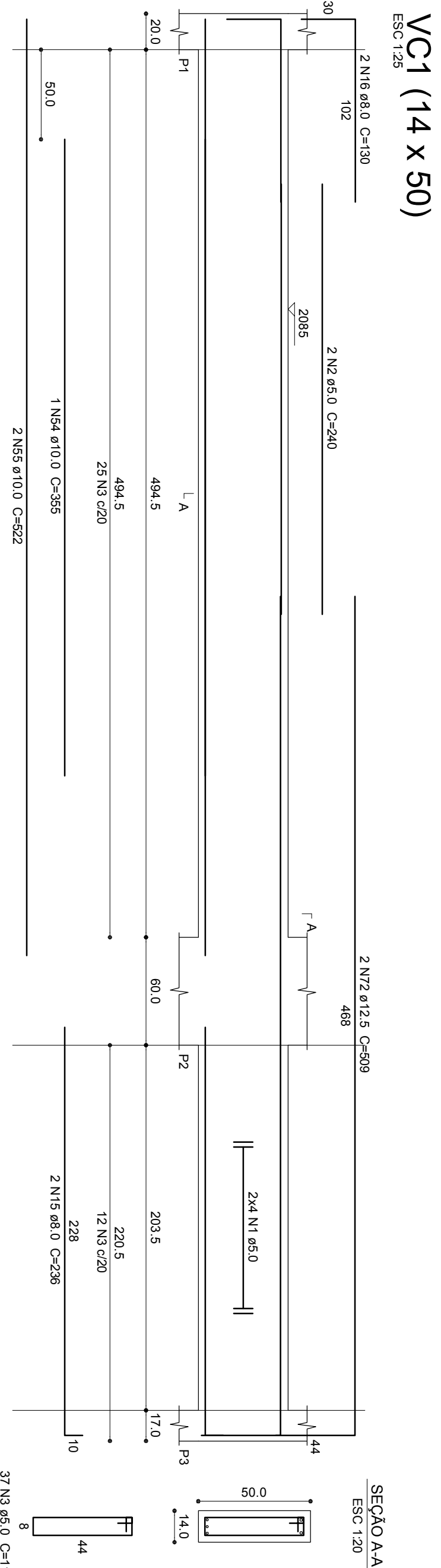
Engenheiro Responsável: VAGNER BALDINI

HOSPITAL MUNICIPAL SÃO JOSÉ
PROJETO ESTRUTURAL
Área total: 2.314,71 m²

FUNDO MUNICIPAL DE SAÚDE DE JOINVILLE
Endereço : Rua Doutor Pacífico Gomes nº408, Anísia Garibaldi - Joinville/SC
Inscrição Imobiliária: 13.20.13.561804-000

Identificações e Assinaturas	
ADMINISTRAÇÃO	ASSINATURA
SECRETARIA DE SAÚDE DO MUNICÍPIO	
PROJETO	ASSINATURA RESPONSÁVEL PELO PROJETO
Guilherme Harzer Paul	
Engenheiro Civil CREABR/SC 128851-3	
ASSINATURA RESPONSÁVEL PELA EXECUÇÃO	

Prancha	
Informações	
Desenho	Gustavo
Nome do Projeto	
Escala	Indicada
Data	Julho de 2015
PILARES DO PAVTO. COBERTURA	
CONTÉUDO DA PRANCHA	
NÚMERO PR-EST 32/47	



ACO	DIAI	C:TOTAL	PESO +10 %
	(mm)	(m)	(kg)
CA50	8,0	289,8	121,8
	10,0	148,6	100,8
	12,5	93,5	99
	16,0	10,6	18-4
CA50	5,0	905,1	153,5
PESO TOTAL			
(kg)			
CA50			340
CA50			153,5

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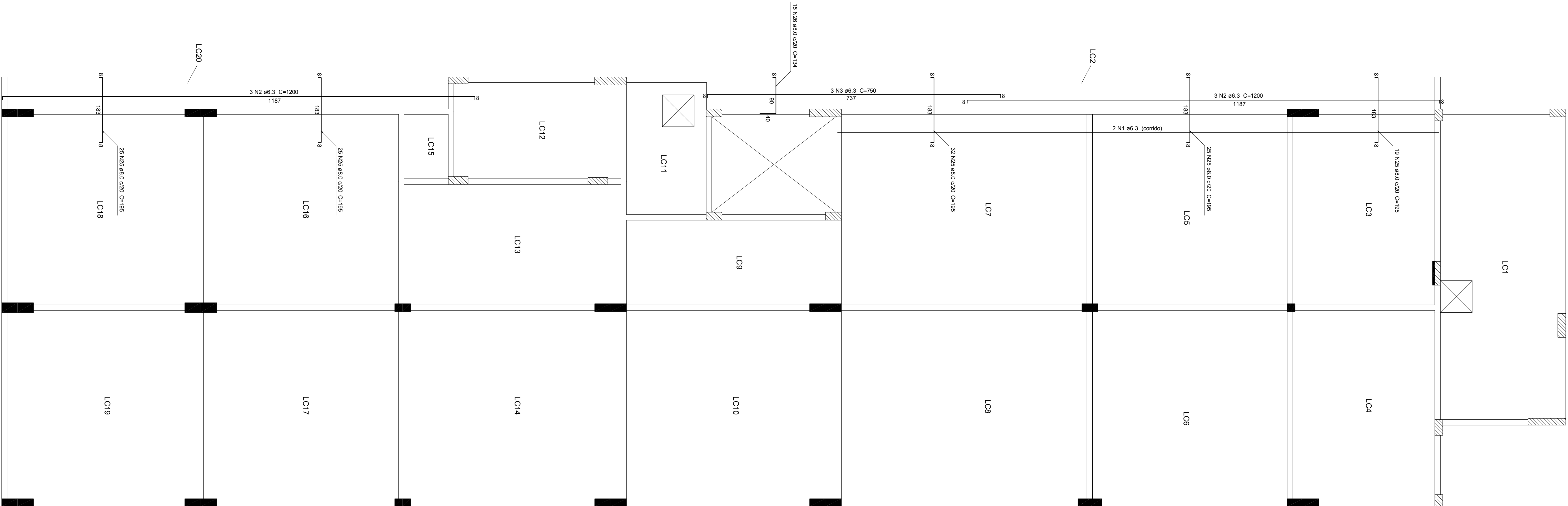
Relação do aço

Negativa					Positiva					
ACO	N	TOTAL	QUANT.	C. TOTAL	ACO	N	TOTAL	QUANT.	C. TOTAL	
(mm)	(mm)	(mm)		(mm)	(mm)	(mm)		(mm)	(mm)	
CA60	1	6.3	2	1510	3050	3	6.3	3	750	2250
	3	6.3	3	750	2250	6	6.3	9	665	2005
	6	6.3	3	917	2751	8	6.3	2	1132	3396
	8	6.3	2	1132	3396	10	6.3	2	688	1318
	10	6.3	2	688	1318	12	6.3	2	235	6345
	12	6.3	2	1200	2400	14	6.3	11	344	3884
	14	6.3	11	344	3884	16	6.3	6	40	414
	16	6.3	6	40	414	17	6.3	6	270	2565
	17	6.3	6	171	1108	19	6.3	21	264	644
	19	6.3	21	264	644	20	6.3	13	442	5166
	20	6.3	13	442	5166	22	6.3	16	667	972
	22	6.3	16	667	972	24	6.3	6	164	1104
	24	6.3	6	164	1104	26	6.3	12	156	2470
	26	6.3	12	156	2470	28	6.3	10	185	2470
	28	6.3	10	185	2470	30	6.3	48	638	13072
	30	6.3	48	638	13072	32	6.3	24	667	13068
	32	6.3	24	667	13068	34	6.3	11	511	1284
	34	6.3	11	511	1284	36	6.3	4	264	1060
	36	6.3	4	264	1060	37	10.0	31	951	15531
	37	10.0	31	951	15531					

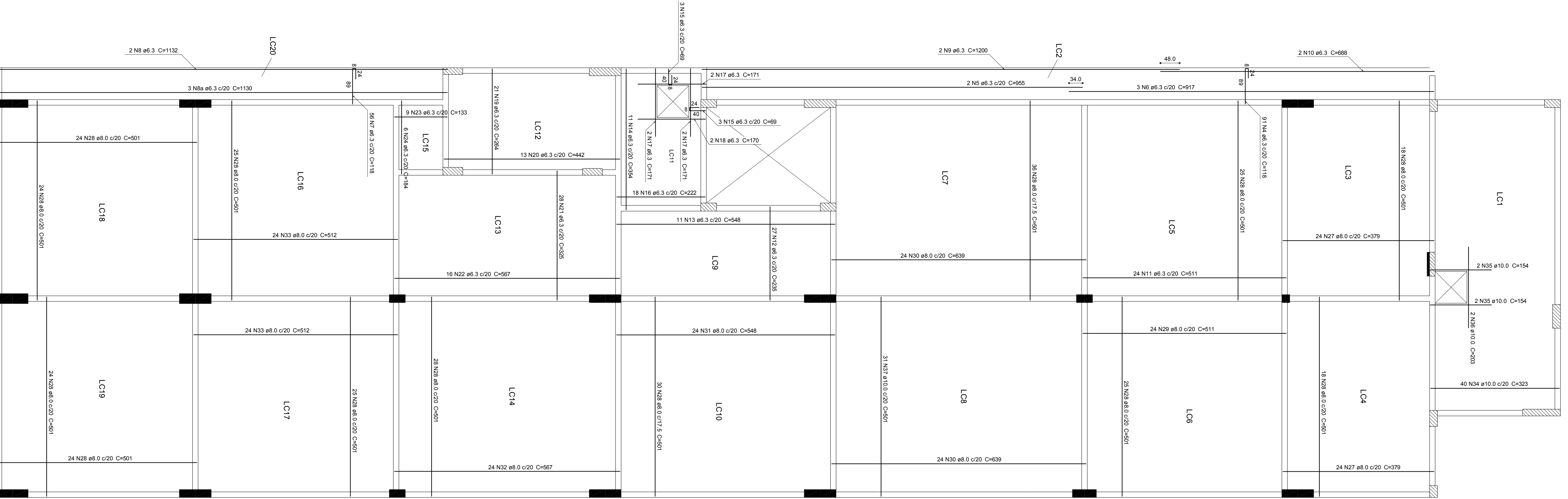
Resumo do aço

ACO	TOTAL	PESO + 10 %
CA60	1739.6	1739.6
CA60	1739.6	1739.6
PESO TOTAL	1739.6	1739.6


Volume do concreto (C-20) = 43.72 m³
Área da forma = 398.88 m²



Armação Negativa das Lajes do Pavto. Cobertura



Armação Positiva das Lajes do Pavto. Cobertura



Associação de Municípios do Nordeste do Estado de Santa Catarina

ASSOCIAÇÃO DE MUNICÍPIOS DO NORDESTE DO ESTADO DE SANTA CATARINA - AMUBIC - Rua Doutor Plácido Gomes nº102, Área Central - Jaraguá do Sul - SC - 89202-4

Associação de Municípios do Nordeste do Estado de Santa Catarina

Associação de Municípios do Nordeste do Estado de Santa Catarina

Associação de Municípios do Nordeste do Estado de Santa Catarina

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Associação de Municípios do Nordeste do Estado de Santa Catarina

Projeto

Usf E2.2

HOSPITAL MUNICIPAL SÃO JOSÉ

PROJETO ESTRUTURAL

Área total 2.314,71 m²

Terreno

Endereço: Rua Doutor Plácido Gomes nº102, Área Central - Jaraguá do Sul - SC - 89202-4

Identificação: 1320138-1000-000

Identificações e Assinaturas

Assinatura: _____

Assinatura: _____

Assinatura: _____

Assinatura: _____

Assinatura: _____

Assinatura: _____

Assinatura: _____

Assinatura: _____

Assinatura: _____

Assinatura: _____

Prancha

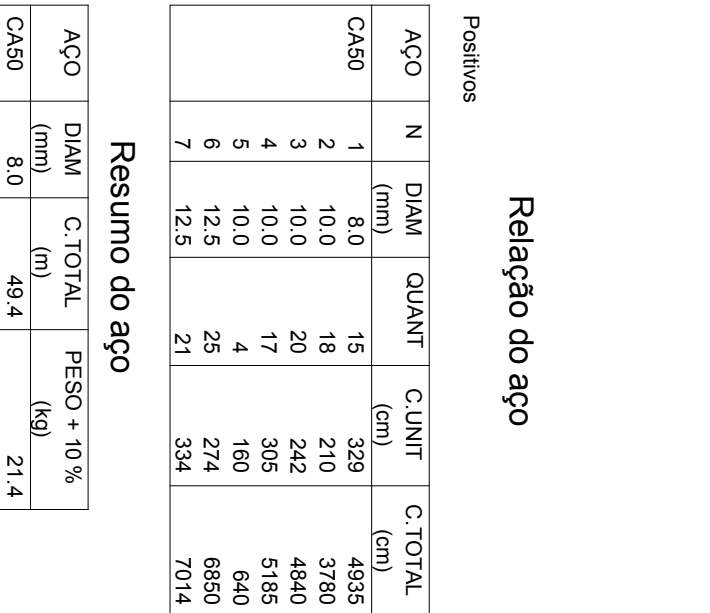
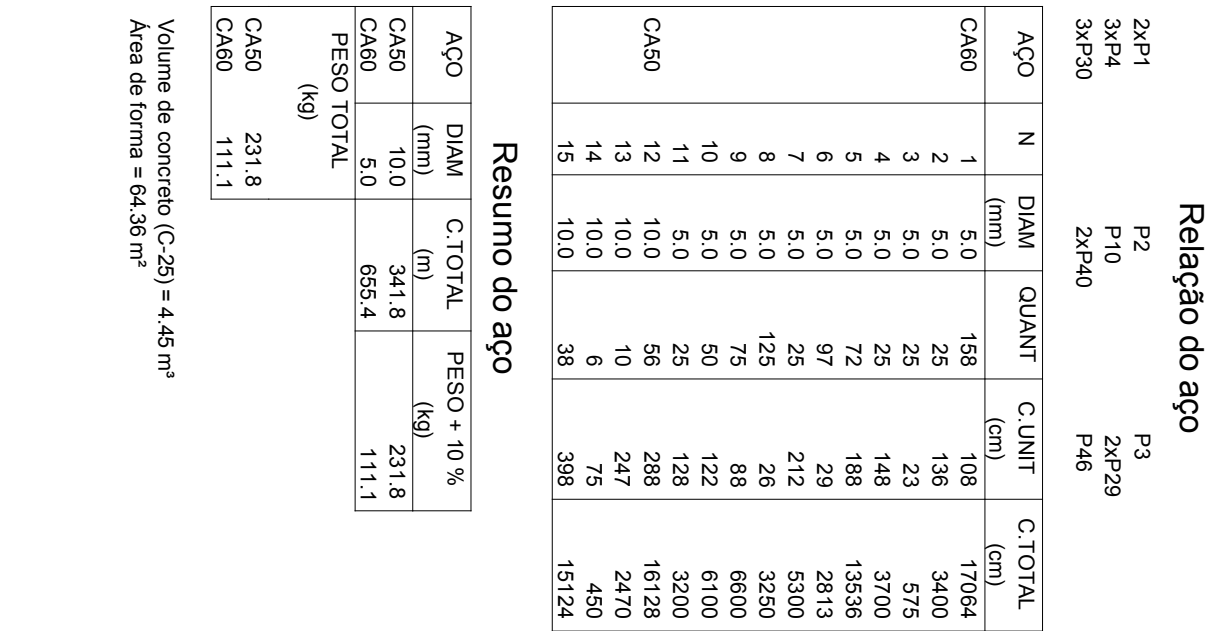
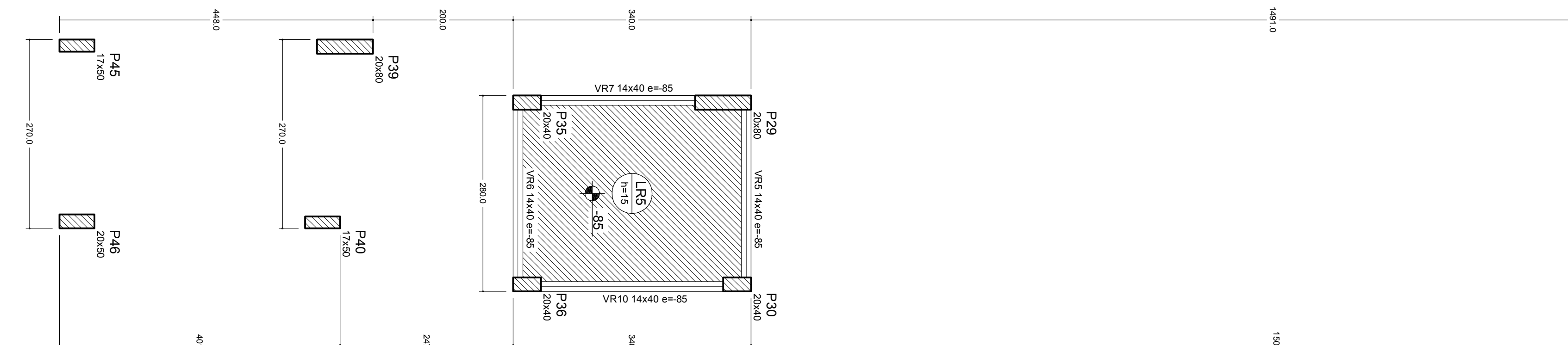
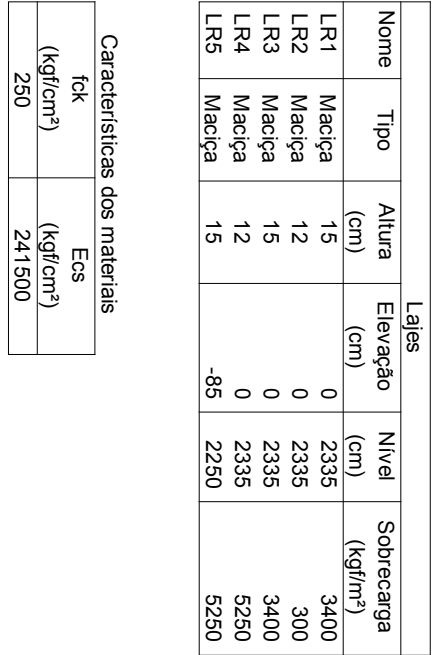
Conteúdo: LAJES DO PAVTO. COBERTURA

36/47

Identificação

Conteúdo: LAJES DO PAVTO. COBERTURA

36/47



AgCo	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CASO	8,0	49,4	21,4
	10,0	144,5	98
	12,5	138,7	146,9
PESO TOTAL (kg)			
CASO			266,3

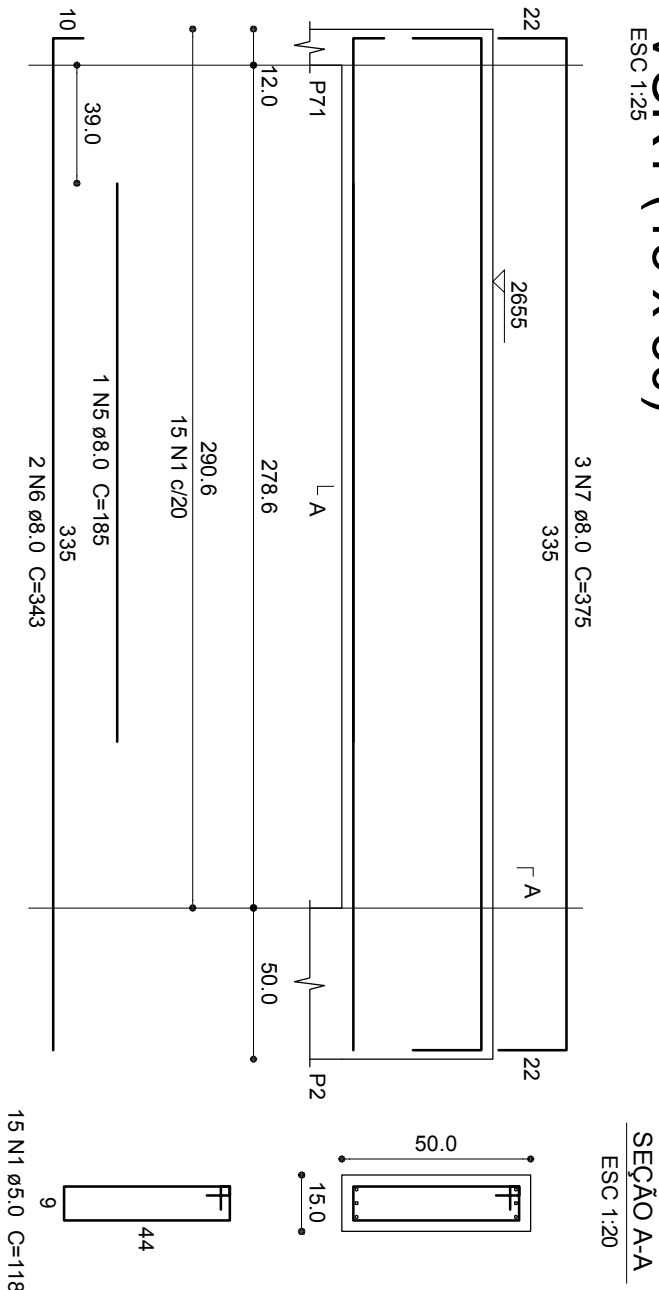
Volume de concreto (C-25) = 4,47 m³
Área de forma = 32,56 m²

Obs:

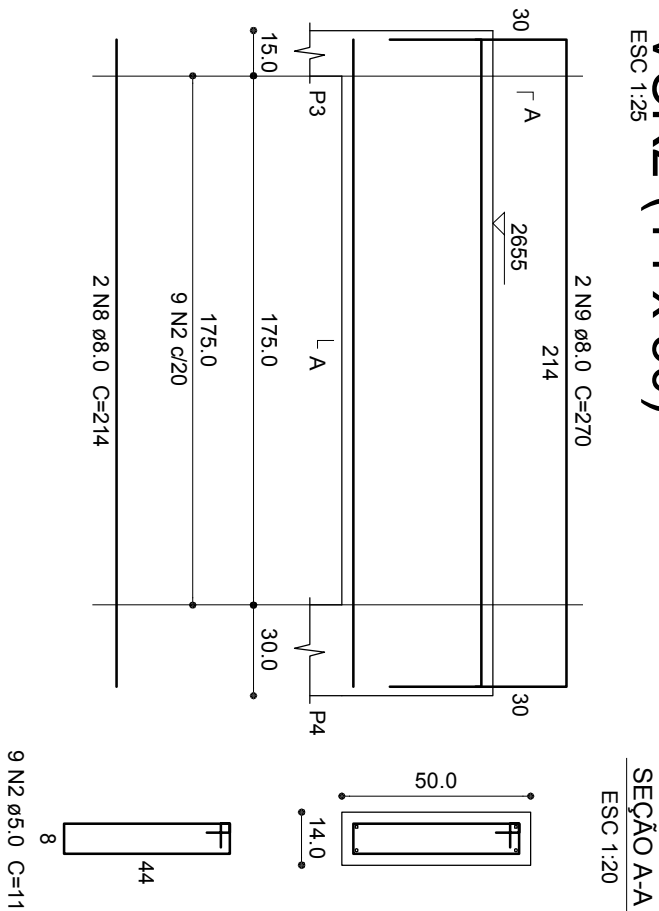
O detalhamento das lajes LR1 e LR3 se encontram na prancha específica do detalhamento do reservatório em concreto armado.

[illegible]

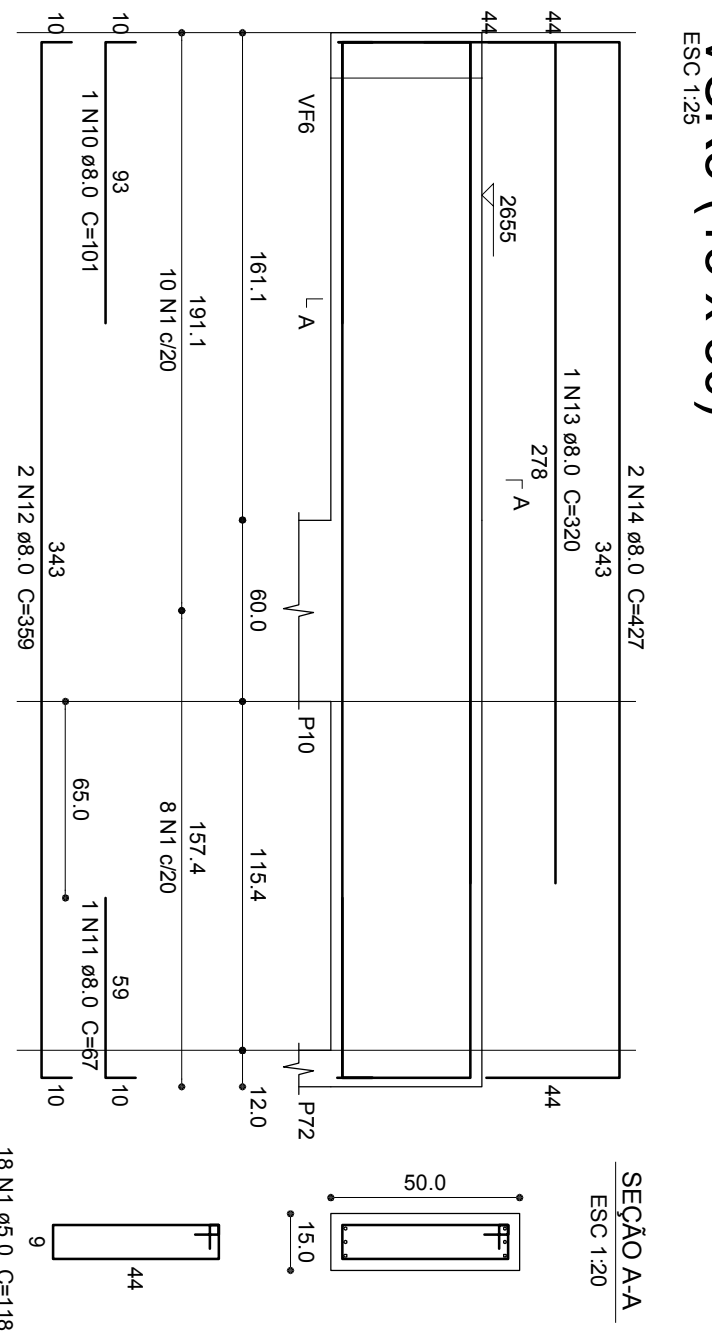
VCR1 (15 x 50)



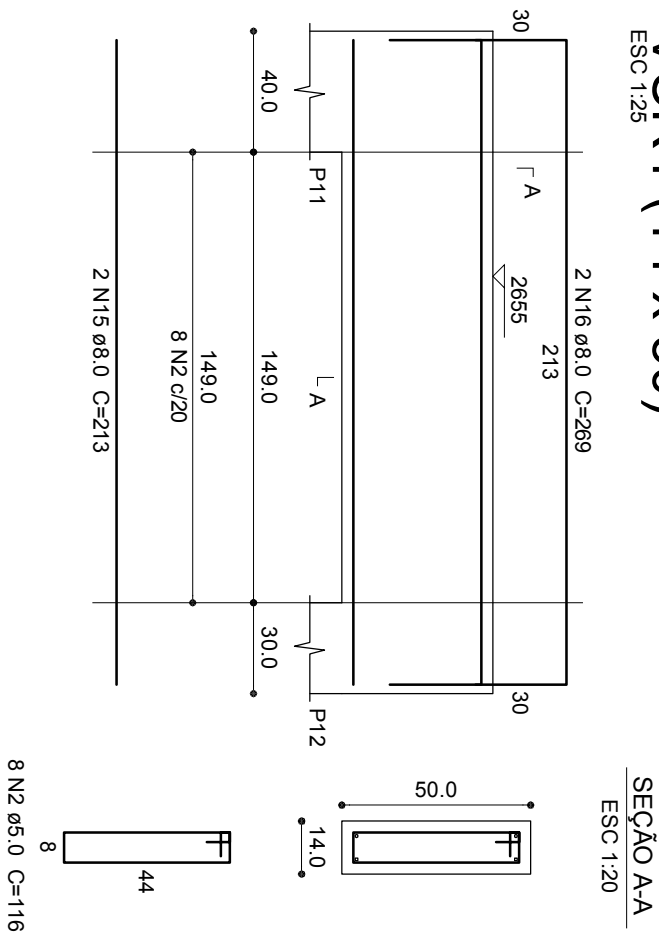
VCR2 (14 x 50)



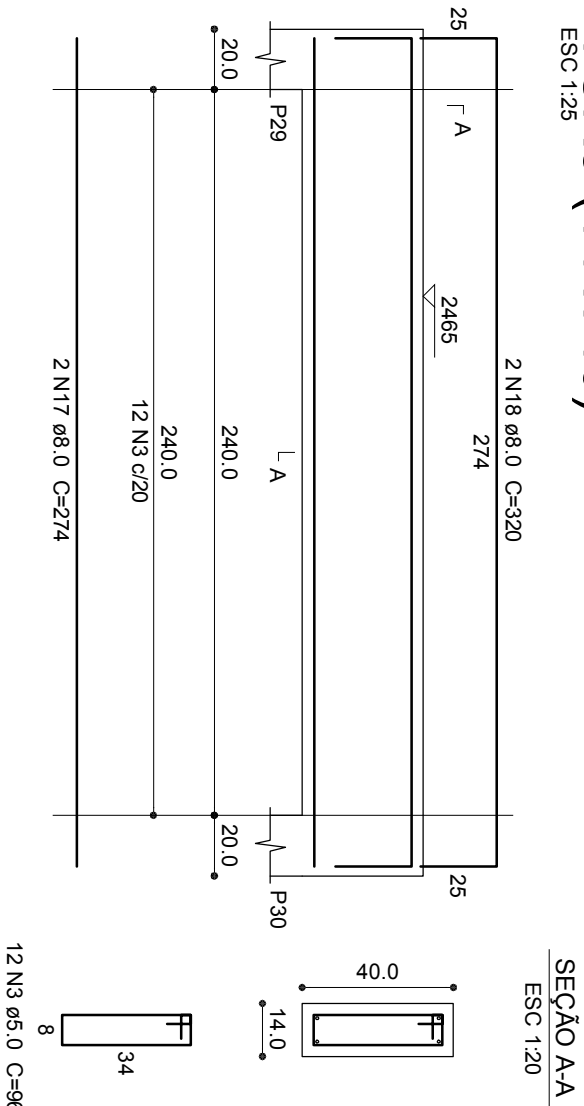
VCR3 (15 x 50)



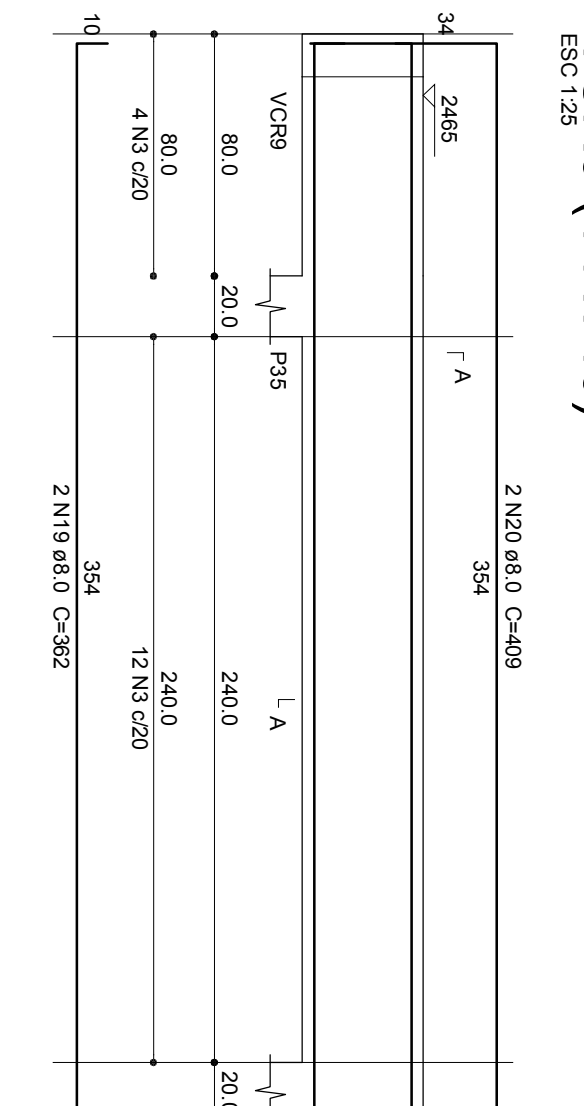
VCR4 (14 x 50)



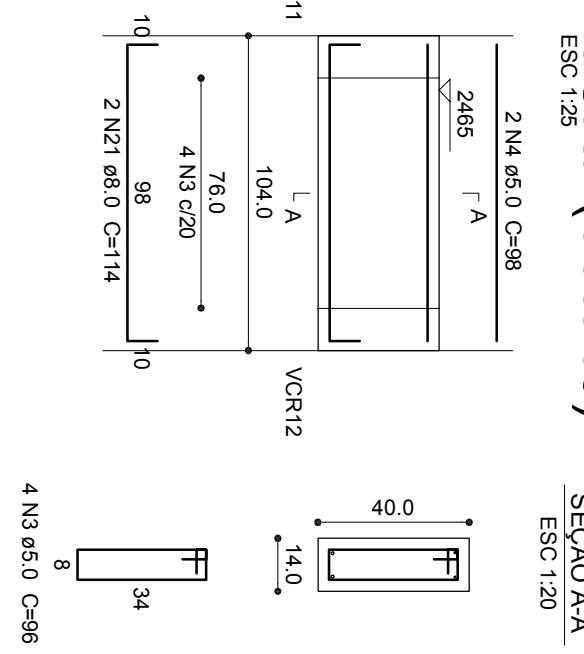
VCR5 (14 x 40)



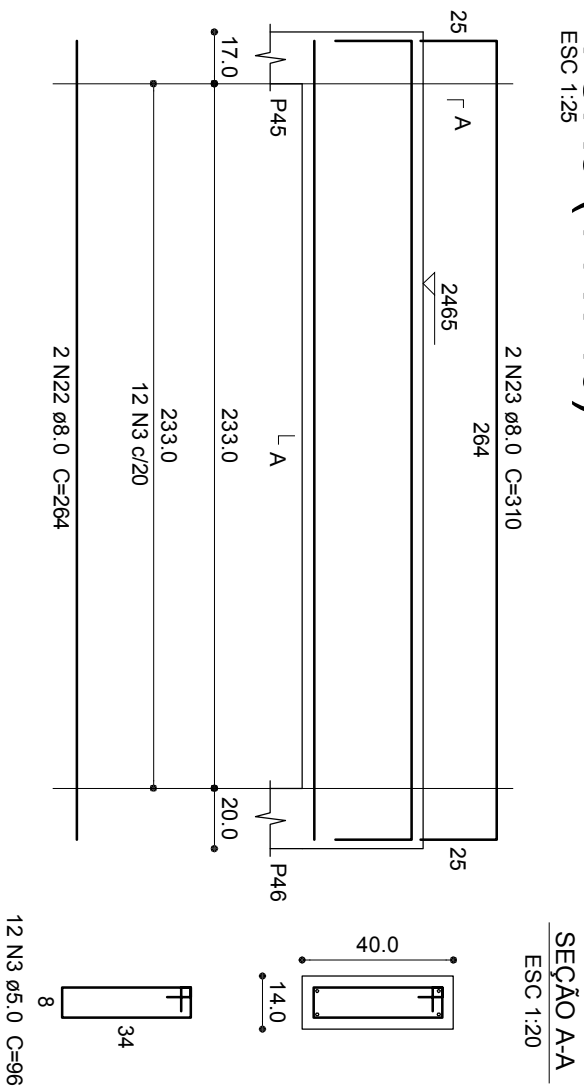
VCR6 (14 x 40)



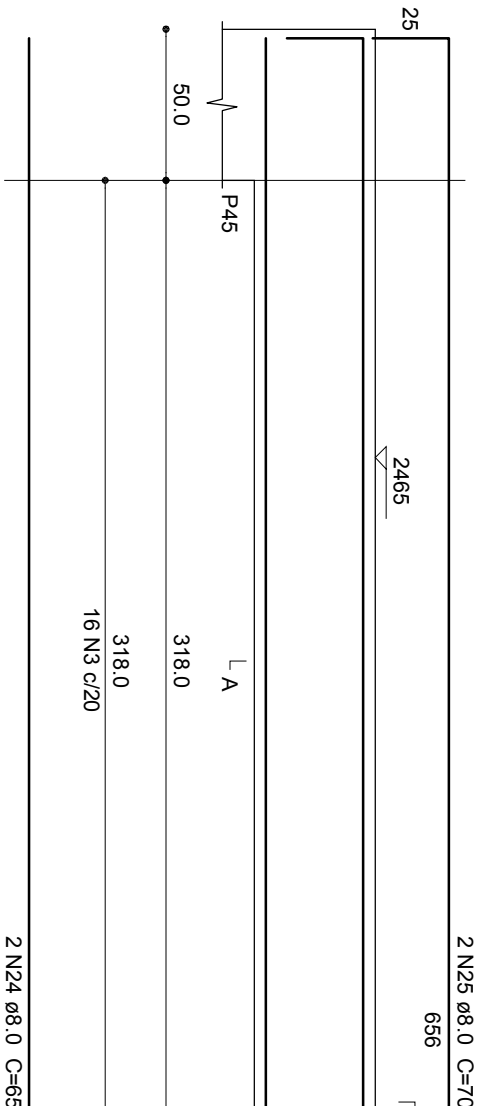
VCR7 (14 x 40)



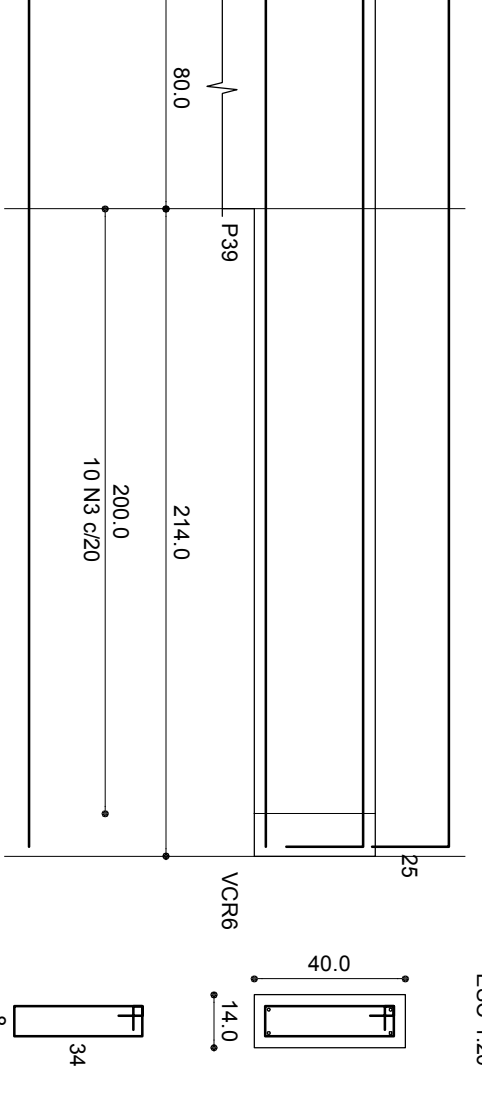
VCR8 (14 x 40)



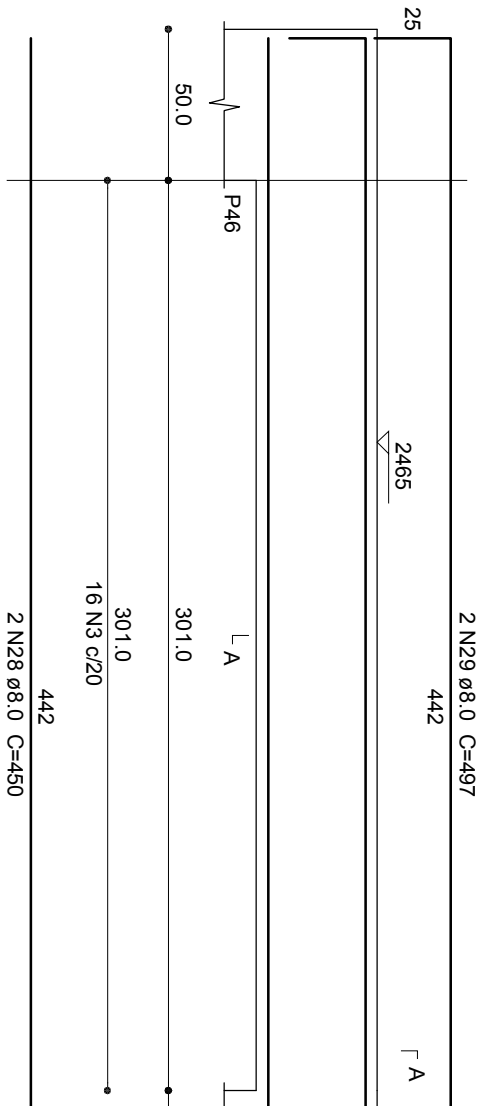
VCR9 (14 x 40)



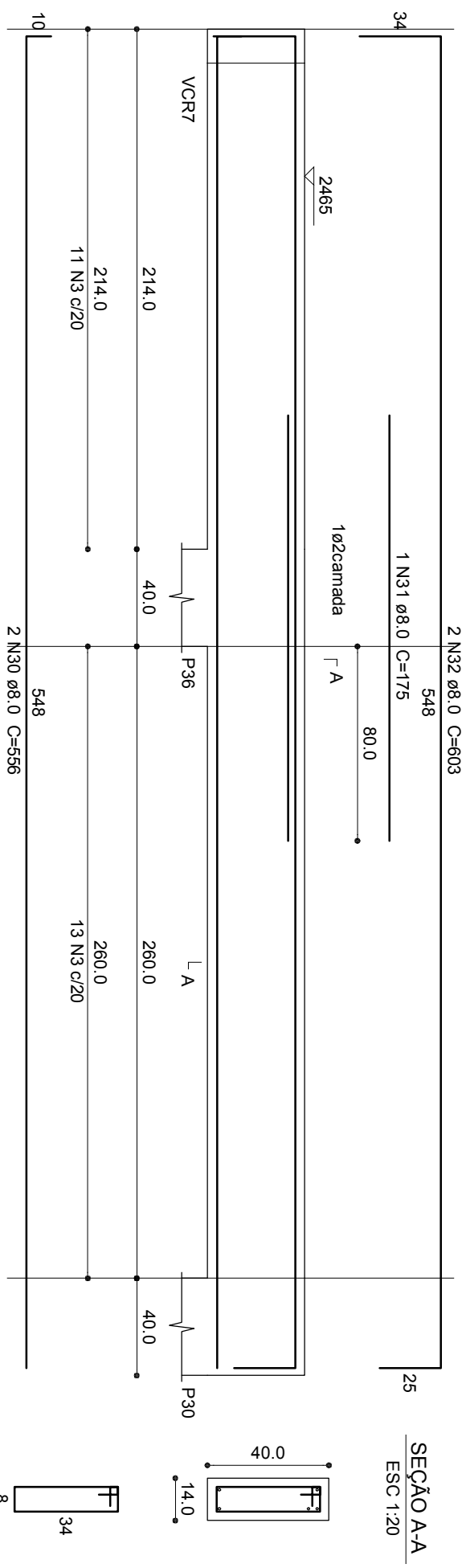
VCR10 (14 x 40)



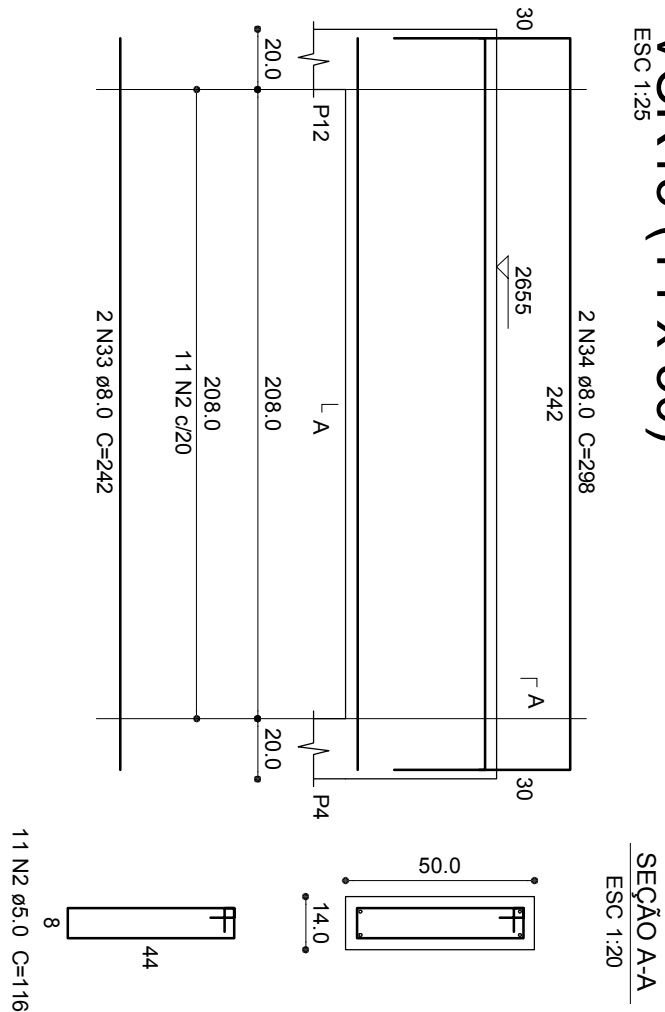
VCR11 (14 x 40)



VCR12 (14 x 40)



VCR13 (14 x 50)



Relação do aço

ACO	N	DIAM (mm)	QUANT	C TOTAL (cm)	C TOTAL (cm)
CA60	1	5.0	33	118	3894
	2	5.0	28	118	3248
	3	5.0	124	98	11904
	4	5.0	2	98	198
CA50	5	8.0	2	343	686
	6	8.0	3	375	1125
	7	8.0	2	214	428
	8	8.0	2	270	540
	9	8.0	2	101	101
	10	8.0	1	101	101
	11	8.0	2	359	718
	12	8.0	1	320	320
	13	8.0	2	427	854
	14	8.0	2	213	426
	15	8.0	2	269	538
	16	8.0	2	274	548
	17	8.0	2	382	764
	18	8.0	2	382	764
	19	8.0	2	409	818
	20	8.0	2	114	228
	21	8.0	2	264	528
	22	8.0	2	310	620
	23	8.0	2	359	718
	24	8.0	2	304	608
	25	8.0	2	304	608
	26	8.0	2	350	700
	27	8.0	2	450	900
	28	8.0	2	497	994
	29	8.0	2	536	1112
	30	8.0	2	603	1206
	31	8.0	2	242	484
	32	8.0	2	298	596
	33	8.0	2		
	34	8.0	2		

Resumo do aço

ACO	DIAM (mm)	C TOTAL (mm)	PESO + 10 % (kg)
CA60	8.0	195.9	85
CA50	5.0	192.5	32.6
PESO TOTAL (kg)			
CASO	85		
CA60	32.6		

Volume de concreto (C-20) = 2.67 m³

Área de forma = 43.94 m²



Associação de Municípios do Nordeste do Estado de Santa Catarina
88714-000 - JOINVILLE - SC - Rua Mau Colln, 1463 - Antares - Fone: (047) 433.3477
ASSESSORIA E COORDENADORIA DE PLANEJAMENTO URBANO, MUNICIPAL E REGIONAL
Home Page : www.amunesc.org.br
CNEC/SC - 46.826-4

Engenheiro Responsável: **GUILLERMO HARGREY PAUL**
VAGNER BALDINI

HOSPITAL MUNICIPAL SÃO JOSÉ
PROJETO ESTRUTURAL

Área total: 2.314,71 m²

FUNDO MUNICIPAL DE SAÚDE DE JOINVILLE

Endereço : Rua Doutor Plácido Gomes nº408, Anís Garibaldi - Joinville/SC
Inscrição Imobiliária: 13.20.13.56.1804-000

Identificações e Assinaturas

SECRETARIA DE SAÚDE DO MUNICÍPIO

Assinatura: _____

Assinatura Responsável pelo Projeto: _____

Assinatura Responsável pela Execução: _____

Prancha

Informações

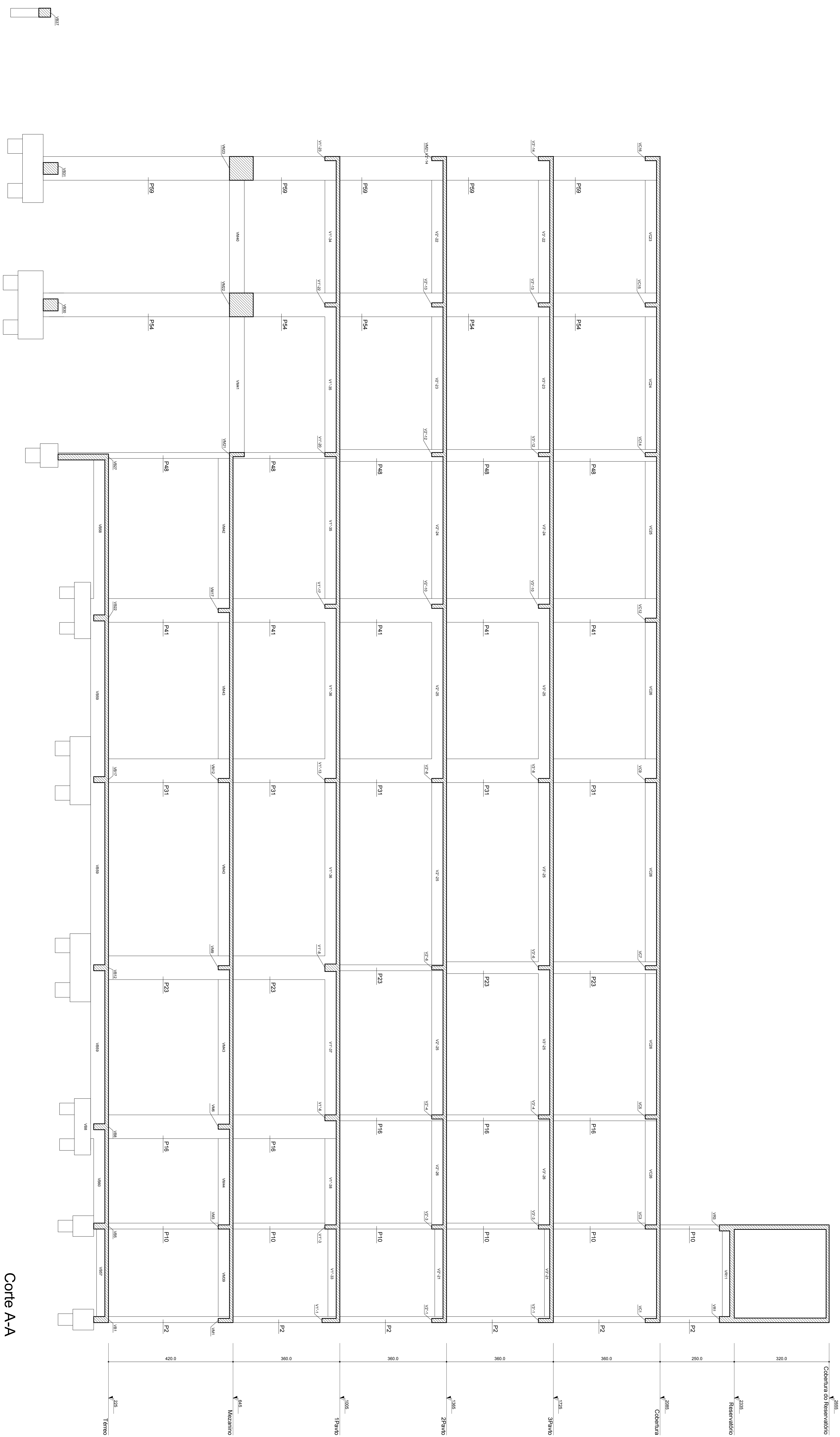
Outor: **Guillherme Hargreay Paul**

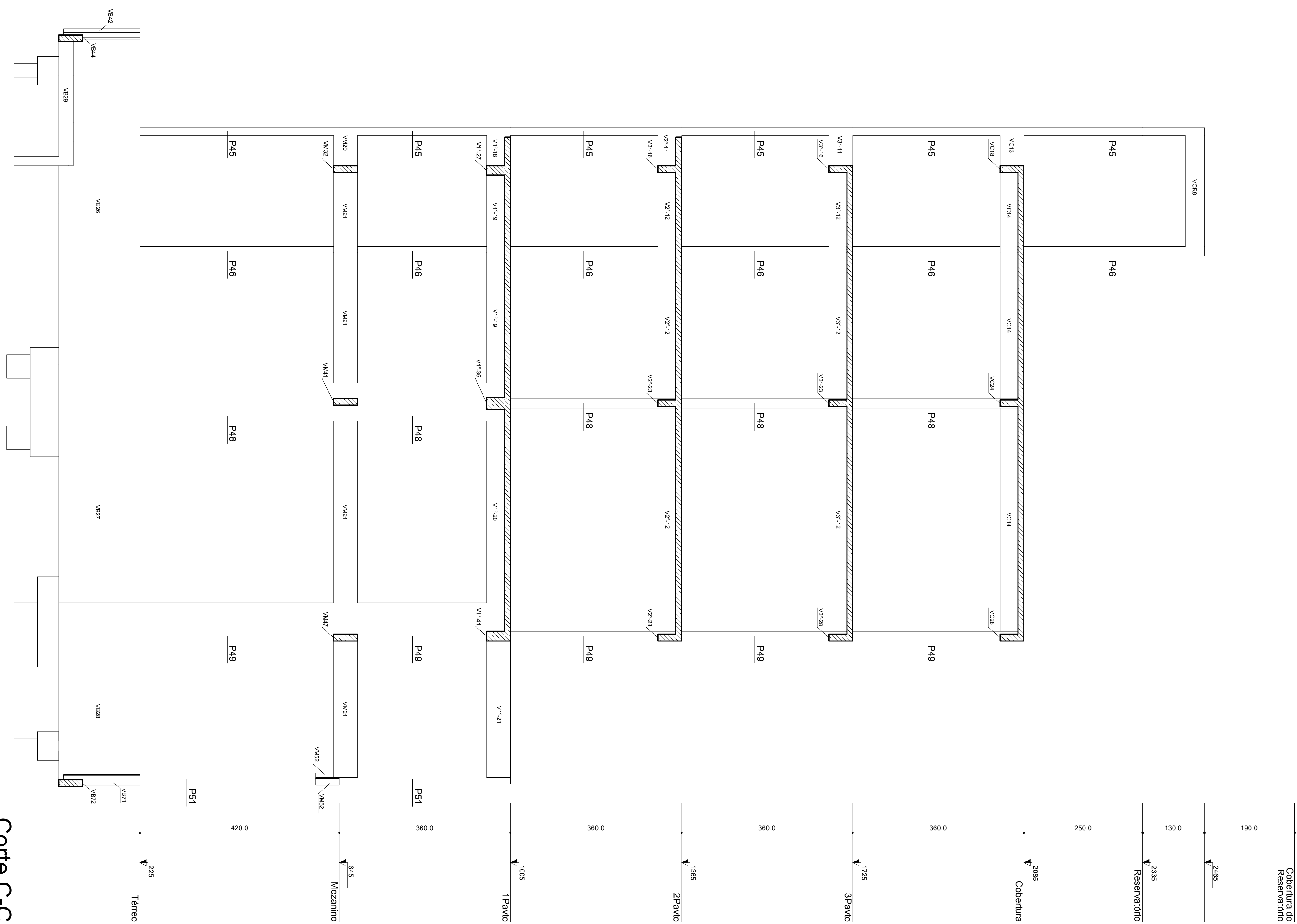
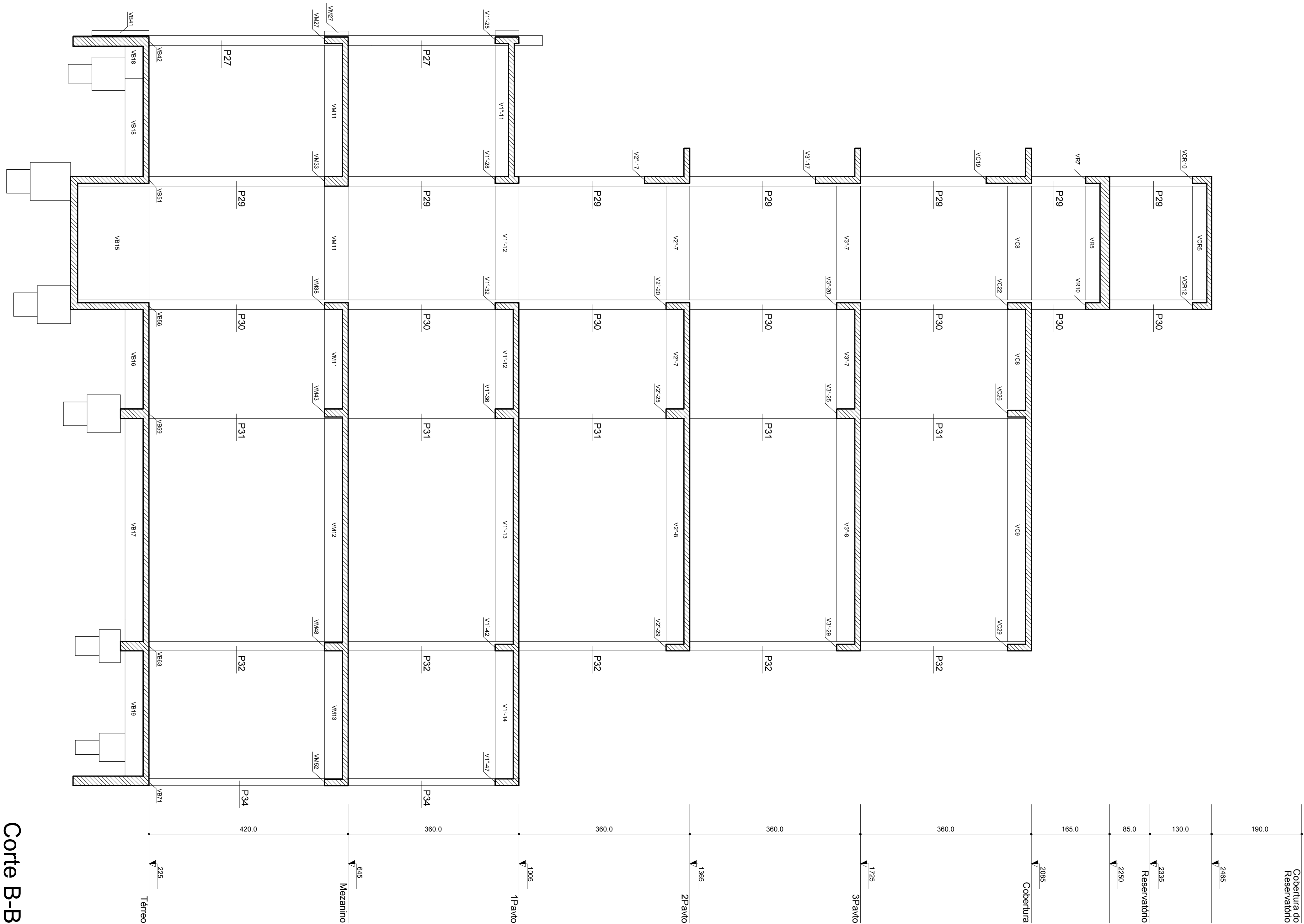
Nome do Projeto: **VIGAS DO PAVTO - COBERTURA DO RESERVATÓRIO**

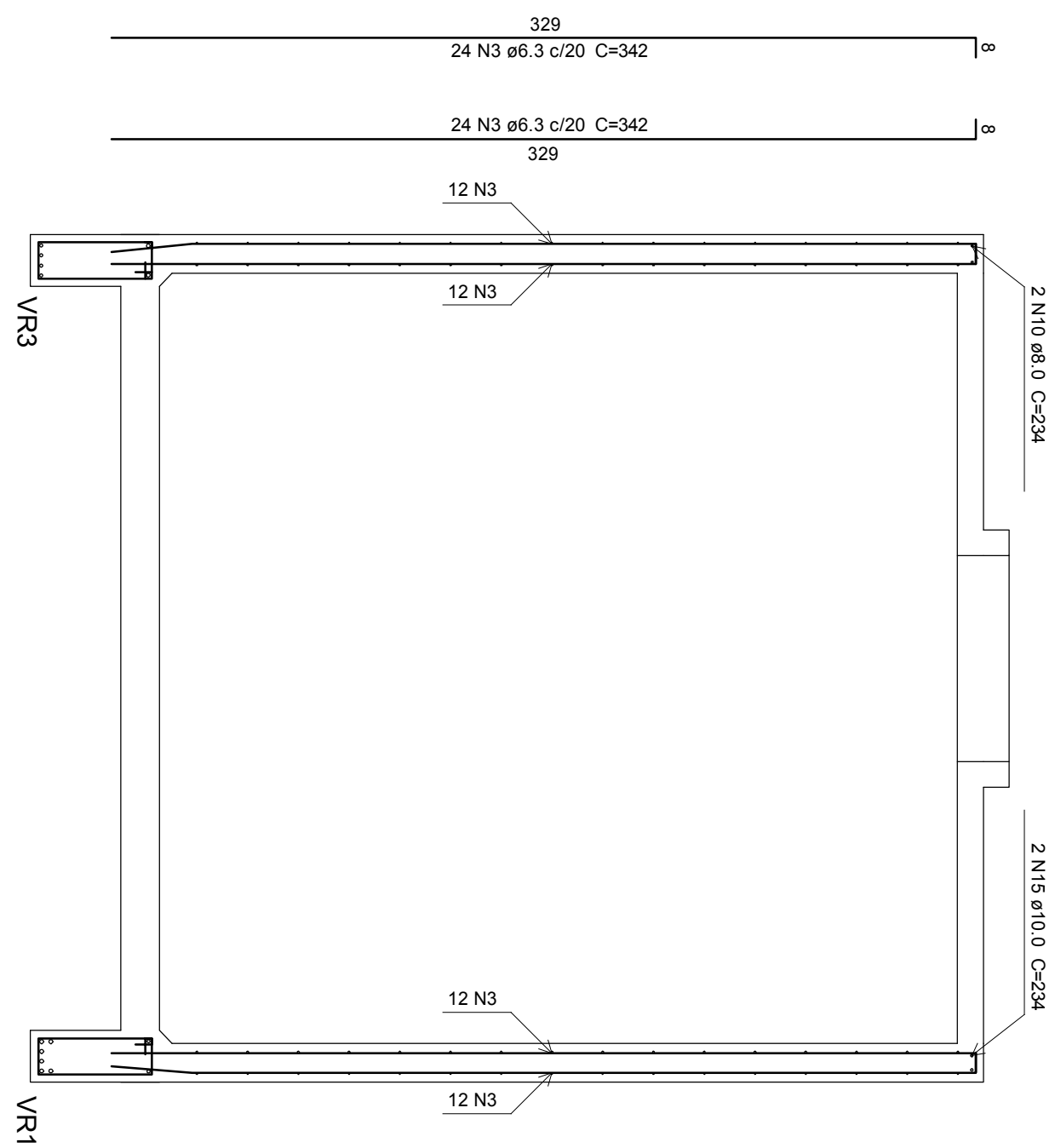
Data: **Julho de 2015**

CONTÉUDO DA PRANCHA

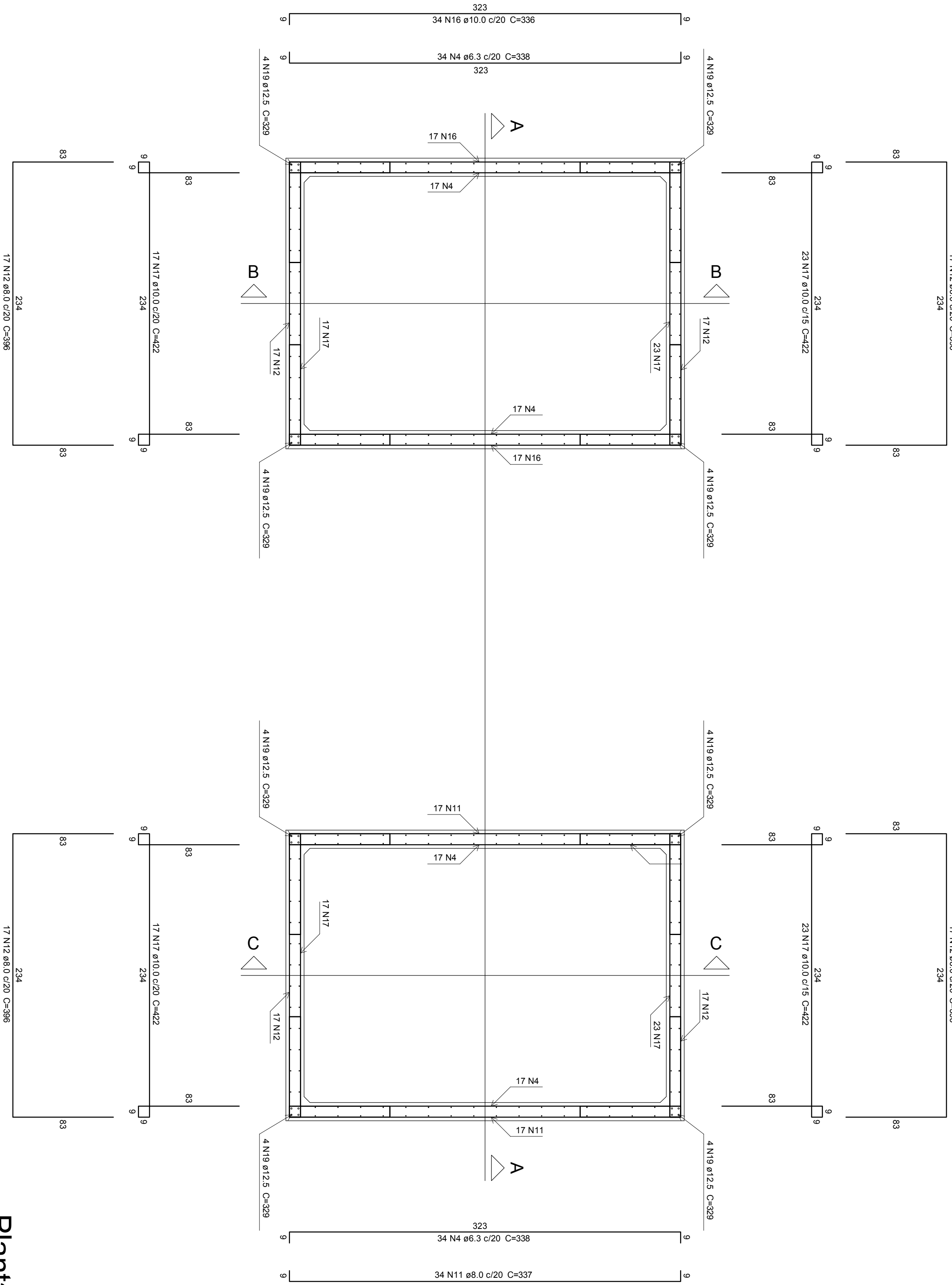
EST 40/47

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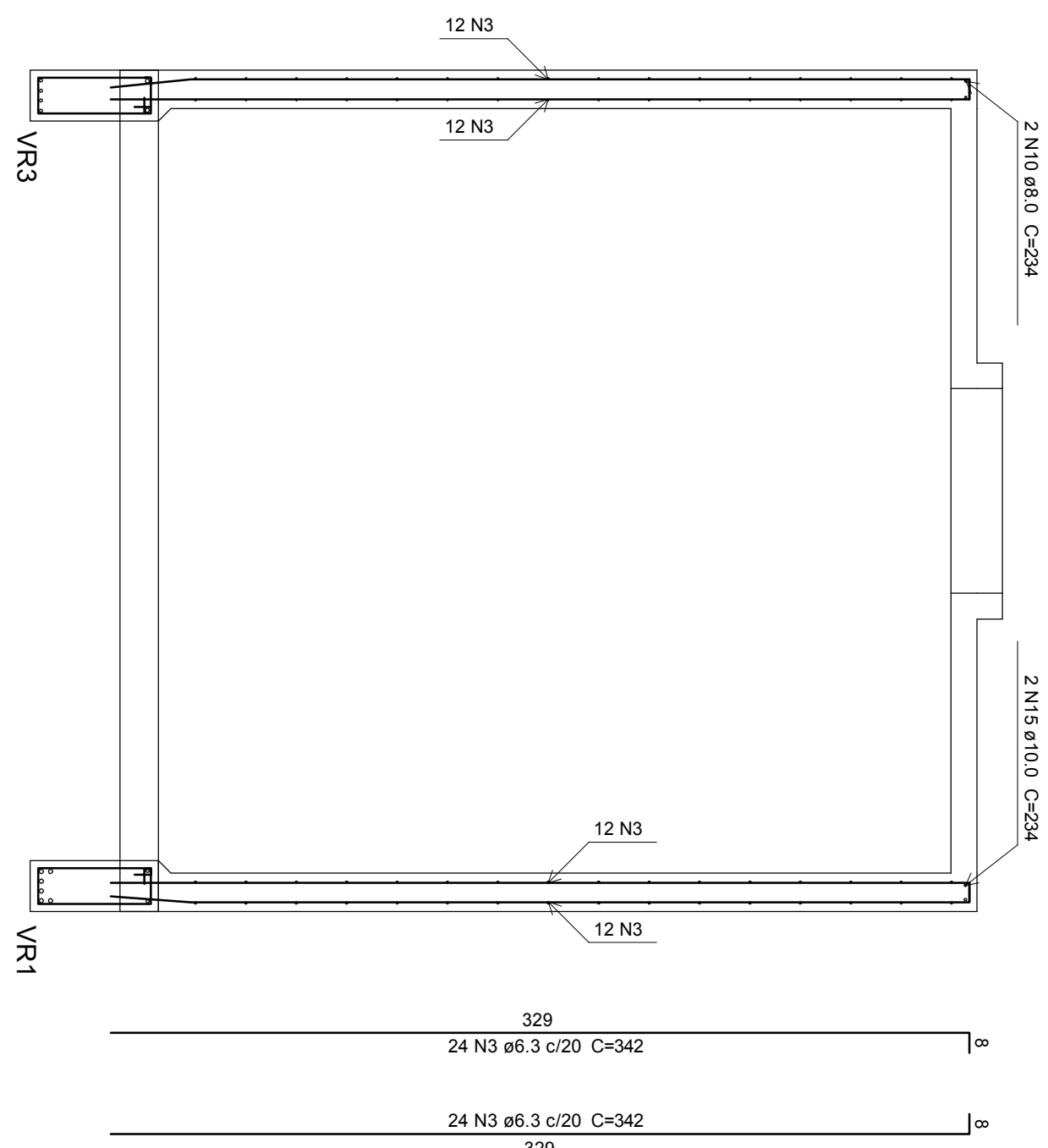
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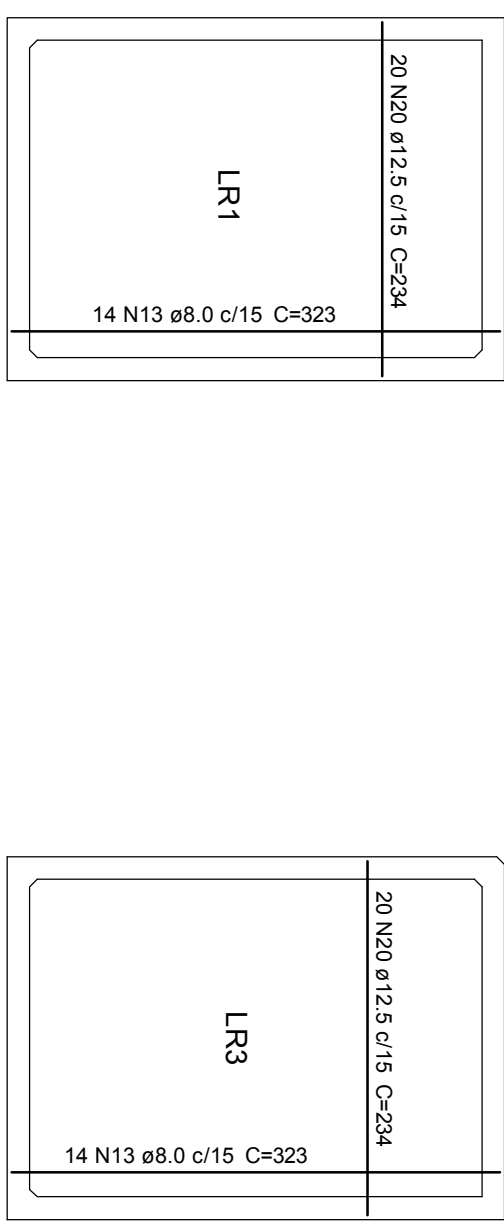
Corte B-B



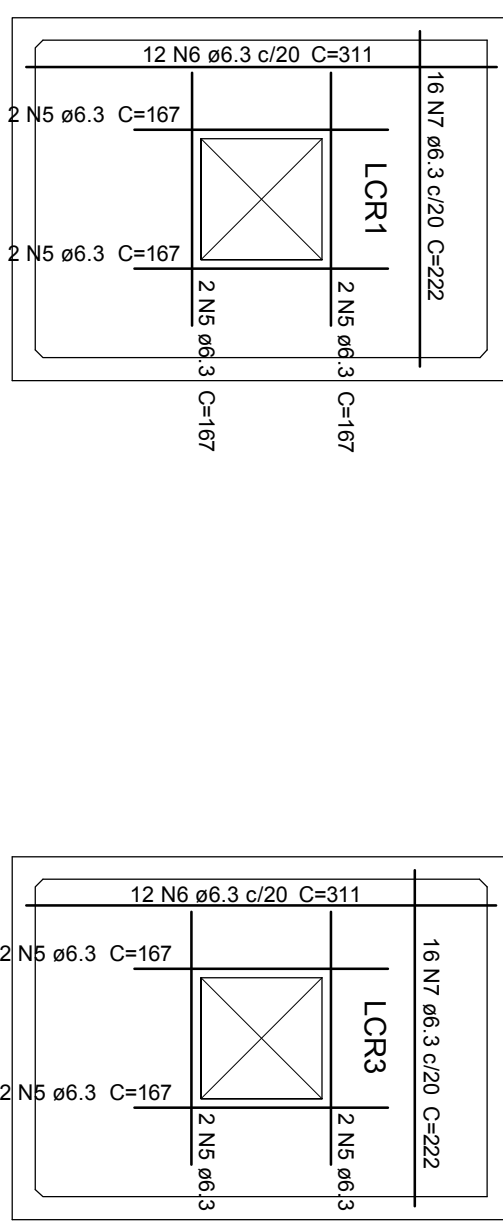
Planta



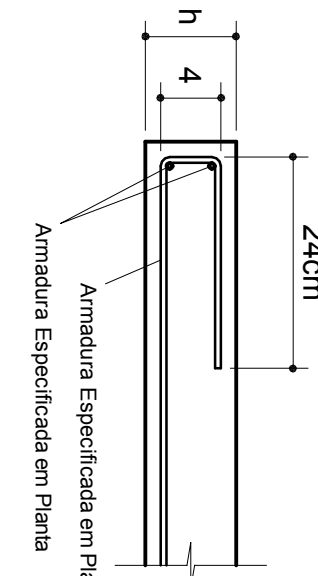
Corte C-C



Armação Positiva das Lajes



Armação Positiva das Lajes de Cobertura



**Detalhe específico para
borda livre em lajes**

Corre A-A		Corre B-B		Corre C-C	
ACO	N (ACO)	DM (mm)	Posições (ACO)	DM (mm)	Posições (ACO)
CA60	1	5,0	32	44	1408
CA60	2	5,0	32	34	1408
CA60	3	6,3	160	342	54720
	4	6,3	69	338	22994
	5	6,3	36	167	2878
	6	6,3	16	167	2878
	7	6,3	16	167	2878
	8	6,3	32	222	7104
	9	6,3	16	94	1504
	10	6,3	32	338	10848
	11	8,0	69	338	20928
	12	8,0	34	337	11468
	13	8,0	34	337	11468
	14	8,0	69	396	26928
	15	10,0	28	323	323
	16	10,0	28	323	323
	17	10,0	40	422	33768
	18	10,0	34	338	11424
	19	10,0	40	422	33768
	20	12,5	32	339	9320
	21	12,5	40	234	10300

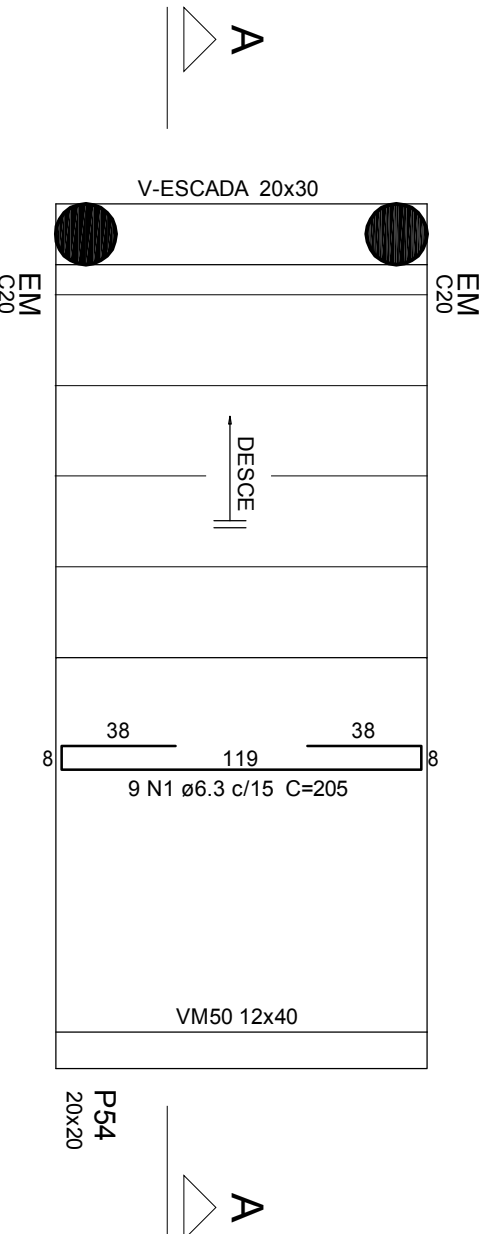
ACO	DMM	C.TOTAL	PESSO + 10 %
(mm)	(m)	(kg)	
CA50	6,3	1073,3	288
	8,0	1892,2	267
	10,0	489,82	355
	12,5	205,4	217
CA60	5,0	14,1	2,2
PESSO TOTAL			
(kg)			
CA50	1089,4		
CA60	2,4		

Volume de concreto (C25) = 1,34 m³
 Área de forma = 117,31 m²

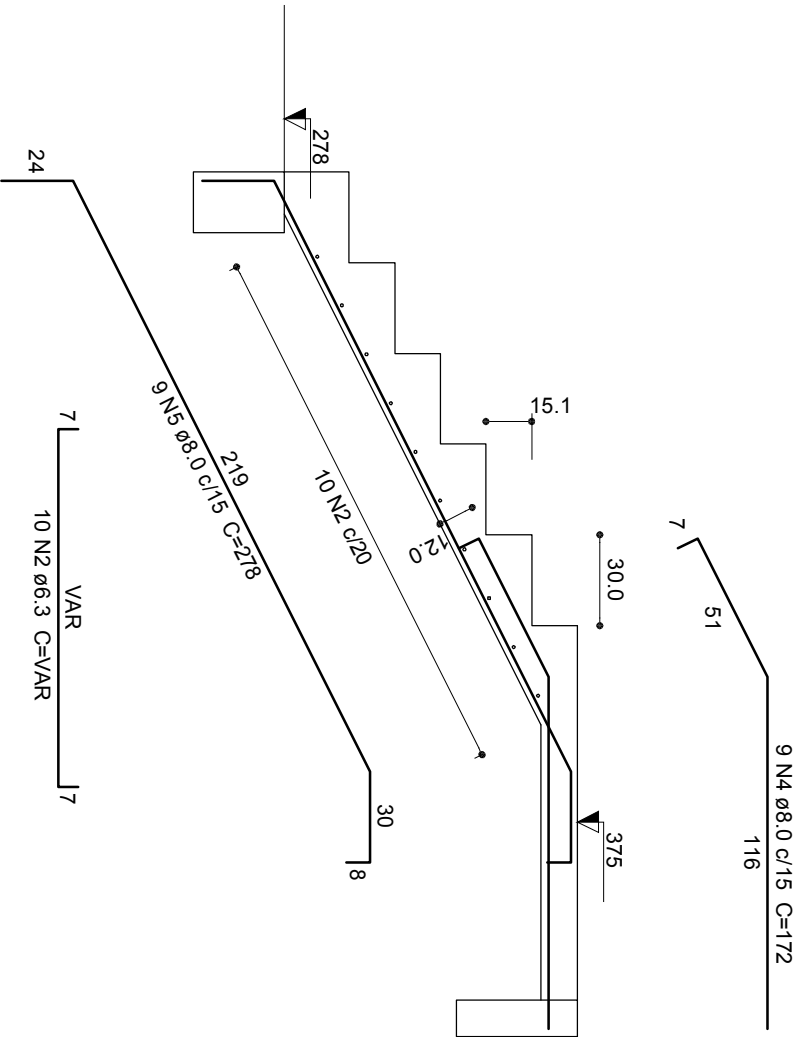
[illegible]

Escada ao Fundo

Obs:
Detalhe da escada de acesso ao prédio existente aos fundos do terreno.
Estrutura independente do restante do edifício.
Confirmar medidas no local e com projeto arquitetônico.

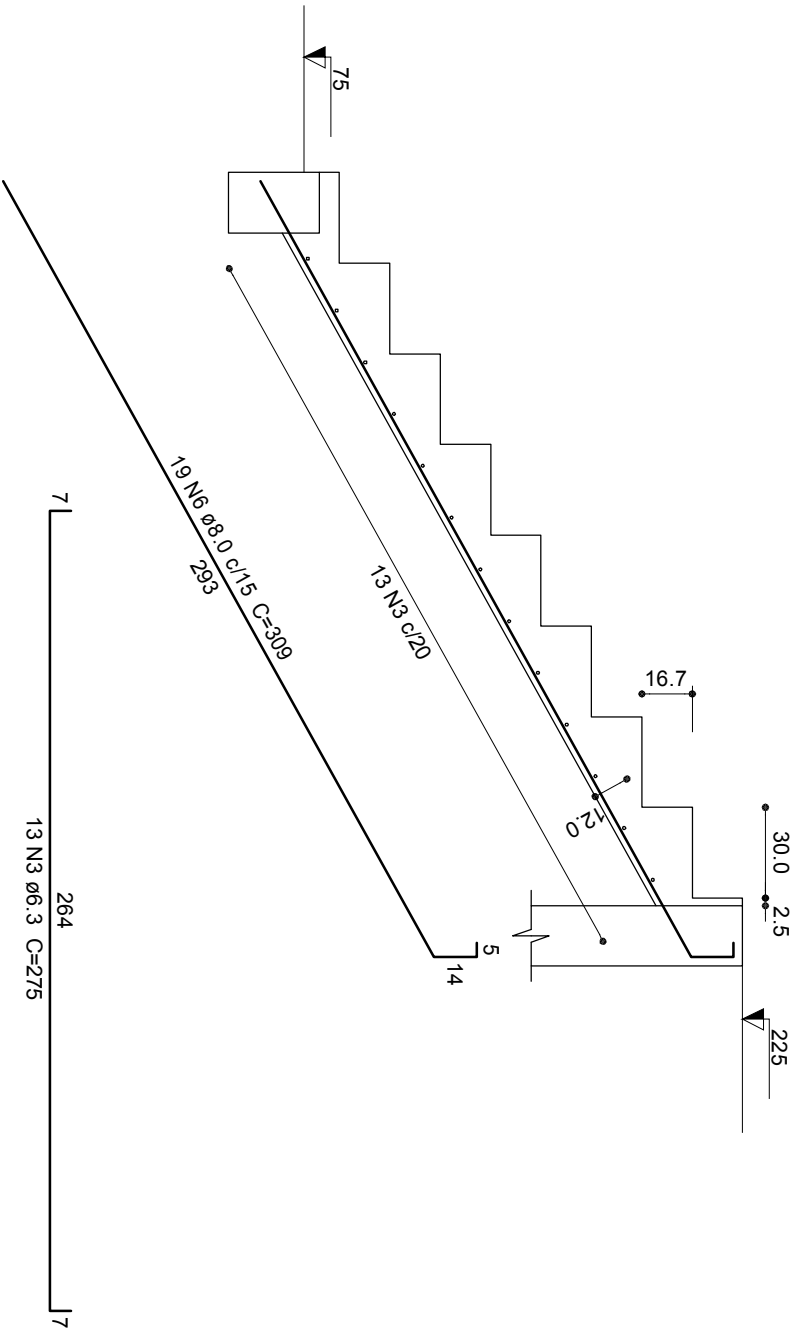


Forma da Escada ao Fundo



Escada 3

Obs:
Detalhe da escada de acesso ao pavimento Térreo.
Confirmar medidas no local e com projeto arquitetônico.



Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	9	205	1845
	2	6.3	10	VAR	VAR
	3	6.3	13	275	3575
	4	8.0	9	278	2502
	5	8.0	9	278	2502
	6	8.0	19	309	5871

Resumo do aço

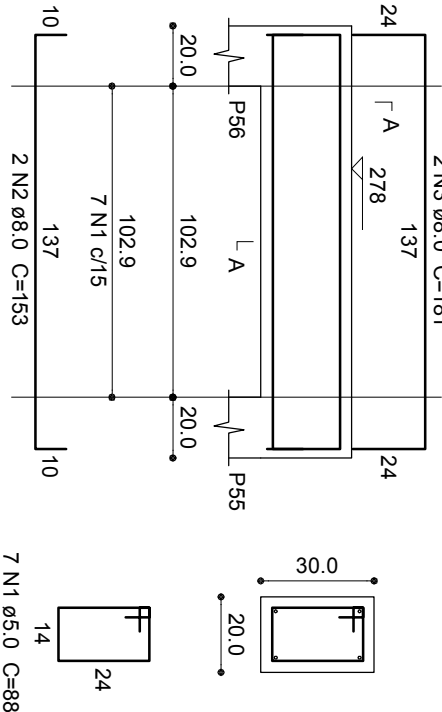
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	67.1	18.1
CA50	8.0	99.3	43.1
PESO TOTAL (kg)			
CA50	61.1		

Volume de concreto (C-25) = 1.98 m³
Área de forma = 18.56 m²

Bidname

V-ESCALADA (20 x 30)

ESC 123



SEÇÃO AA

ESC 120

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	7	88	616
CA50	2	8.0	2	153	306
CA50	3	8.0	2	181	362

Relação do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	6.7	2.9
CA50	5.0	6.2	1
PESO TOTAL (kg)			
CA50	2.9		
CA50	1		

Volume de concreto (C-25) = 0.08 m³
Área de forma = 1.14 m²

Associação de Municípios do Nordeste do Estado de Santa Catarina
88214-000 - JOINVILLE - SC - Rua Mau Collin, 1843 - Avenida - Fone: 0747.433.927
ASSESSORIA E COORDENADORIA DE PLANEJAMENTO URBANO, MUNICIPAL E REGIONAL
Home Page : www.ammunes.org.br
Engenheiro Responsável: **GUILLERMO HARGER PAUL**
VAGNER BALDINI

HOSPITAL MUNICIPAL SÃO JOSÉ
PROJETO ESTRUTURAL
Área total: 2.314,71 m²

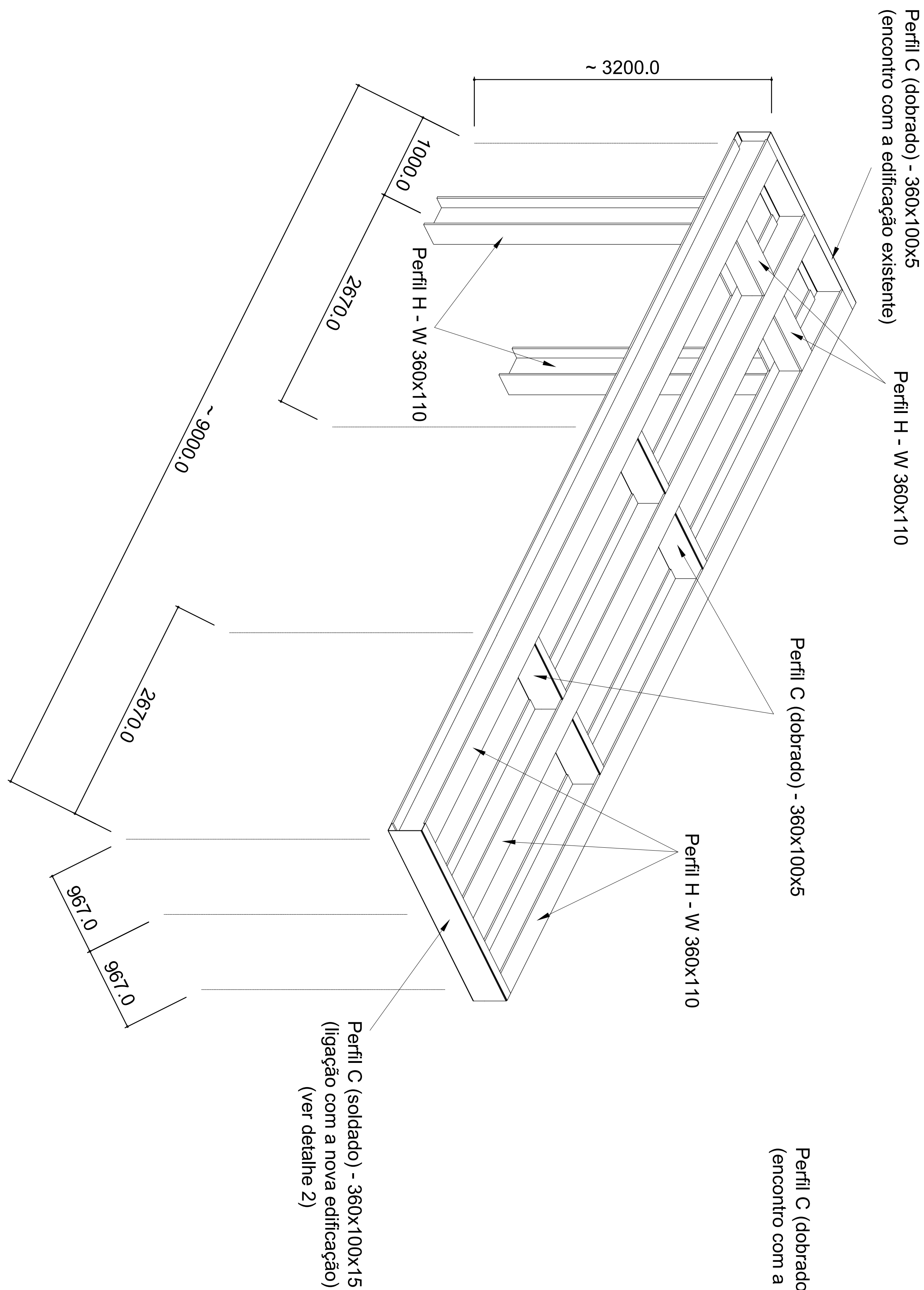
FUNDO MUNICIPAL DE SAÚDE DE JOINVILLE
Endereço : Rua Doutor Pedro Gomes nº408, Anísia Garibaldi - Joinville/SC
Inscrição Imobiliária: 13.20.13.56.1804-000

SECRETARIA DE SAÚDE DO MUNICÍPIO
Assinatura Responsável: _____
Assinatura Responsável: _____
Assinatura Responsável: _____

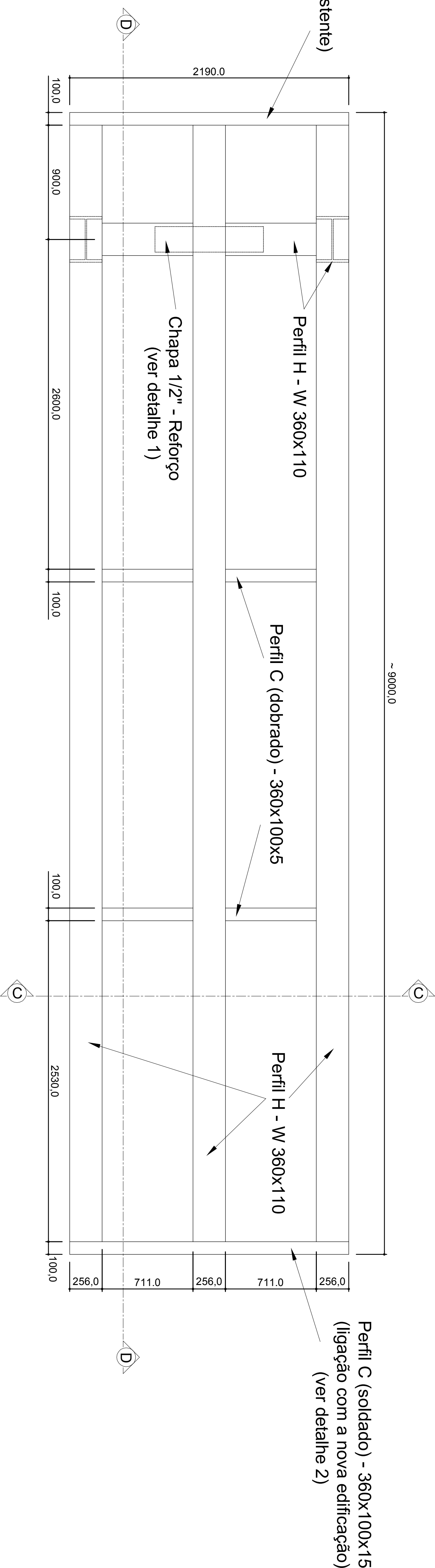
Identificações e Assinaturas
Assinatura Responsável: _____
Assinatura Responsável: _____
Assinatura Responsável: _____

Prancha
Informações
Autor: _____
Elaborado: _____
Data: _____
CONTÉUDO DA PRANCHA
DETALHAMENTO DAS
ESCADAS COMPLEMENTARES
NÚMERO PR
EST
45/47

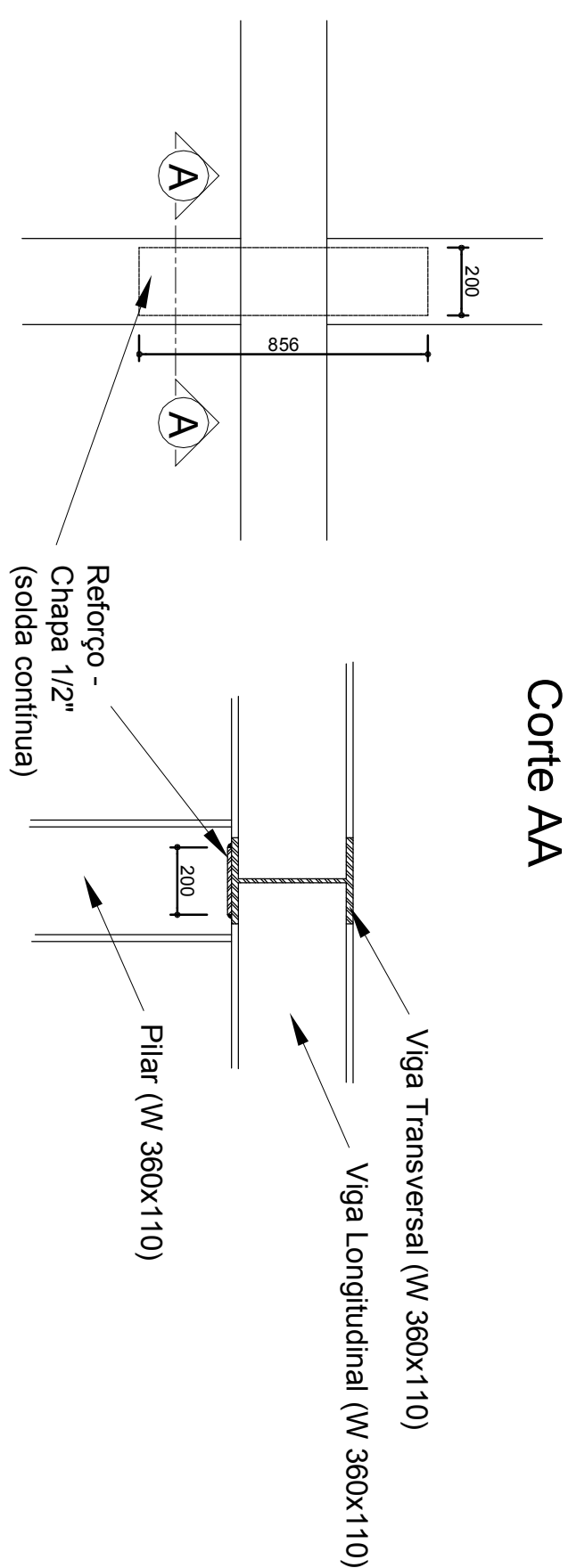
Estrutura Principal (3D)



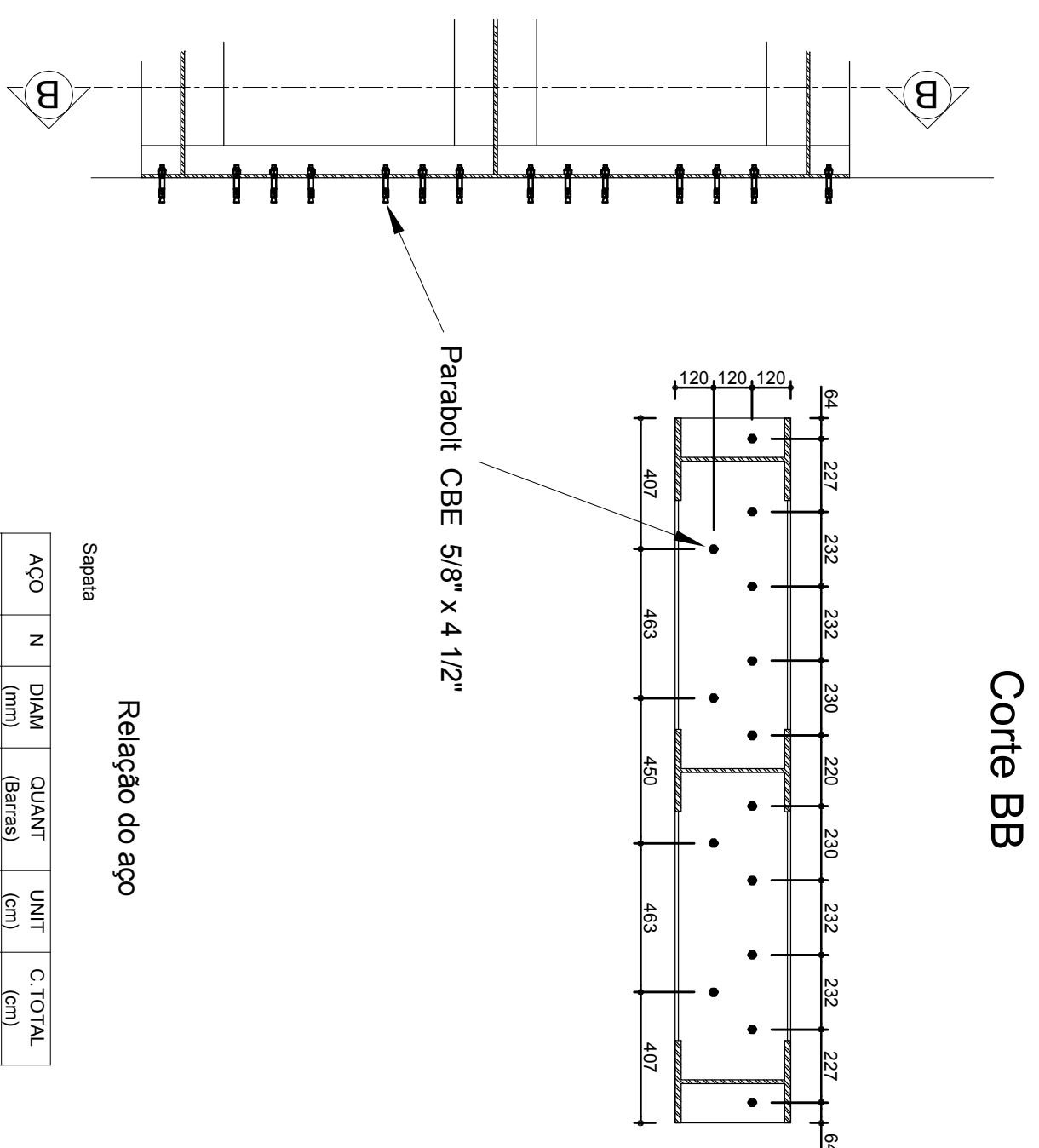
Estrutura Principal (Planta)



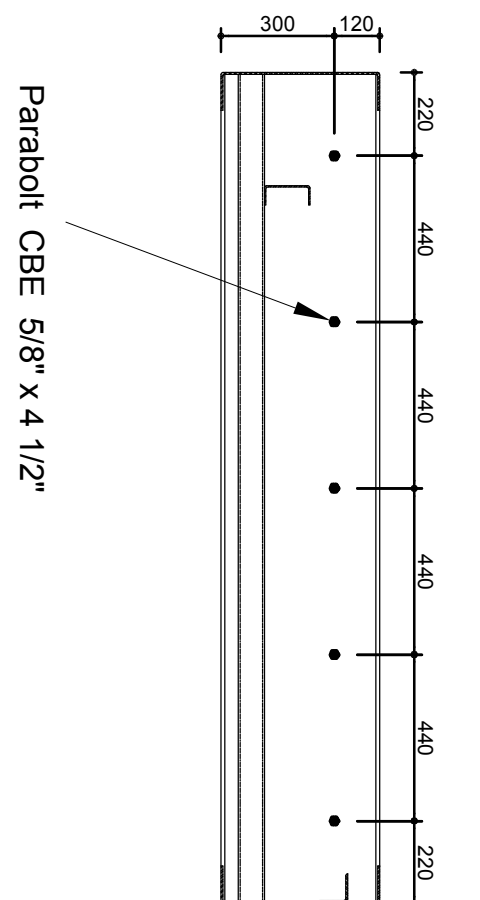
Detailne 1



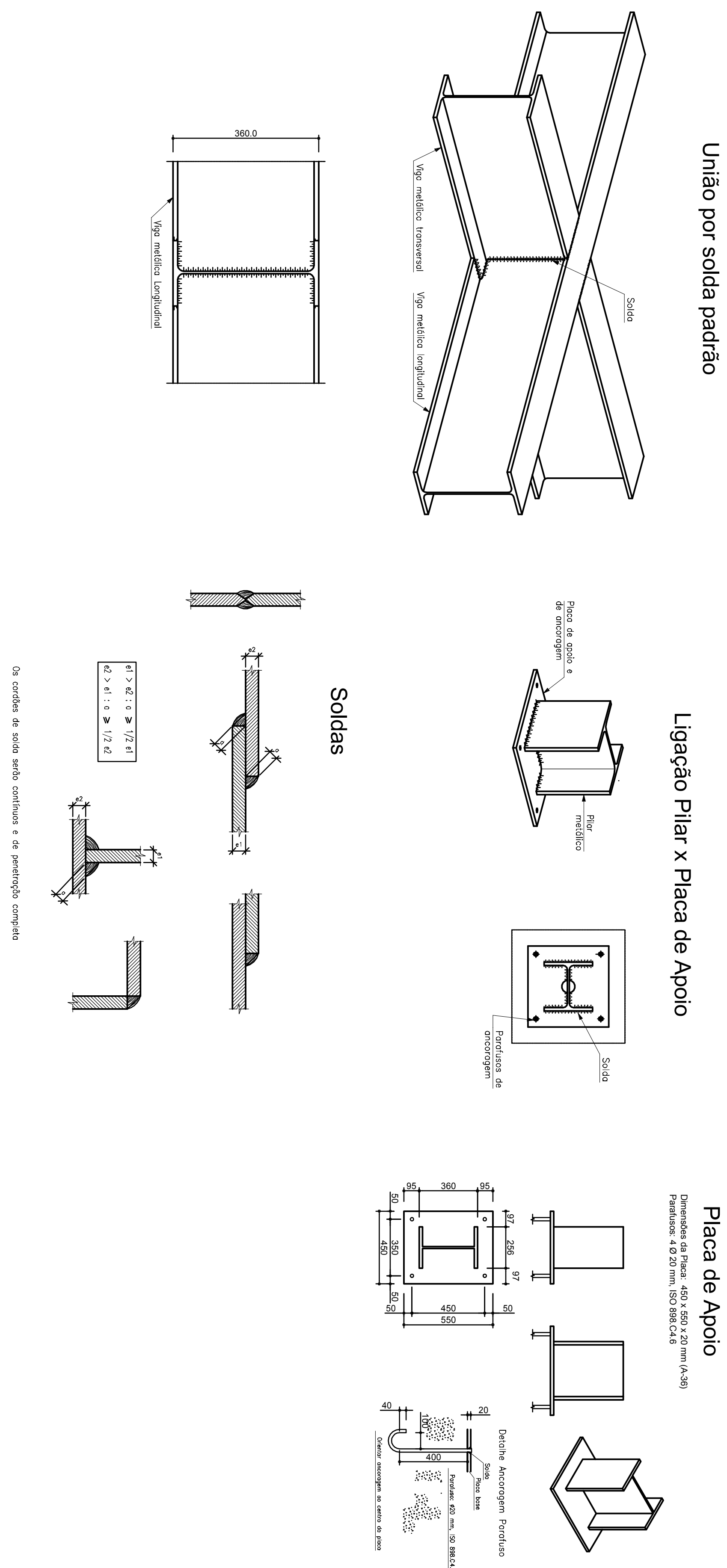
Detailne 2



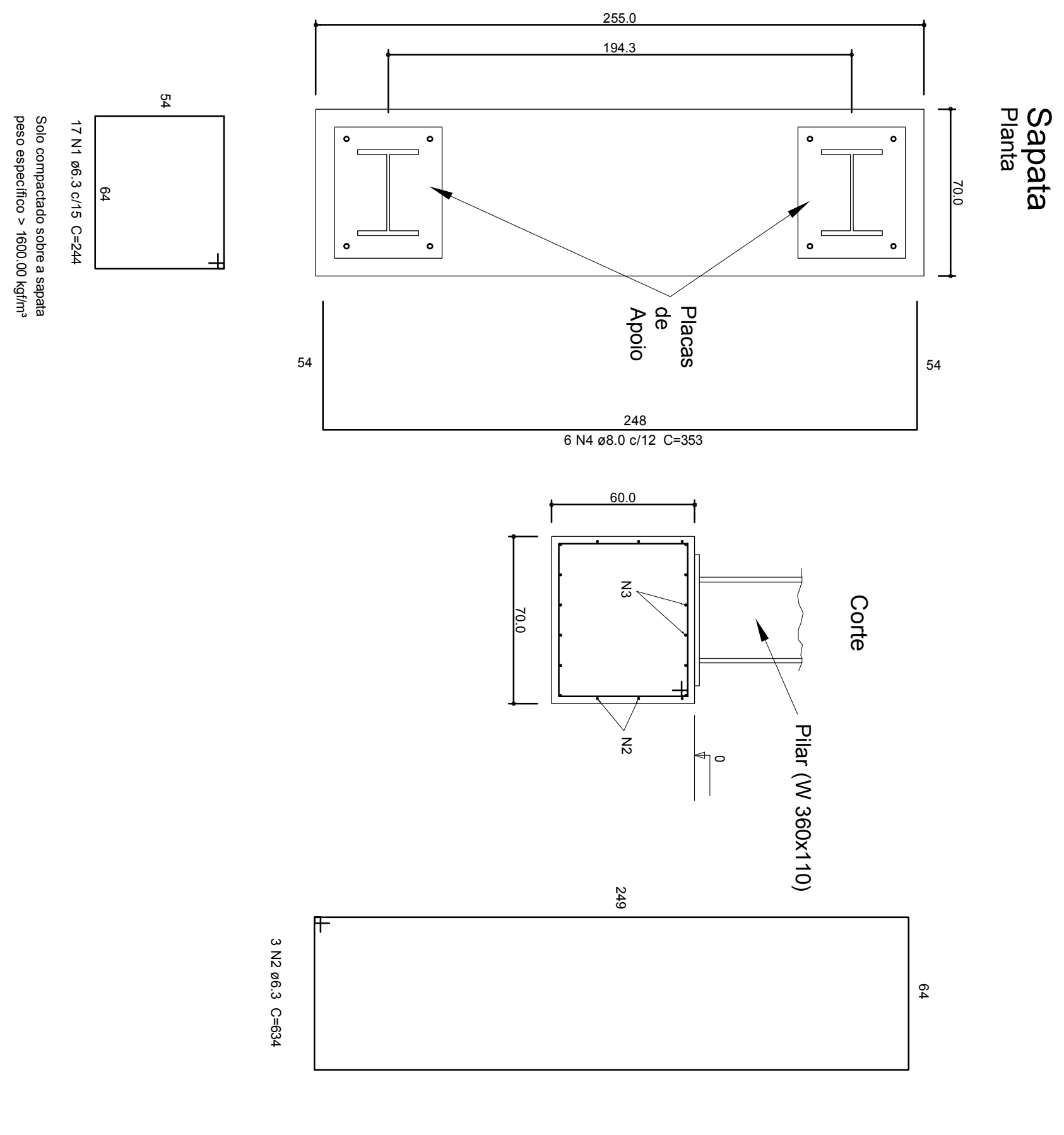
Detailne 3



Detalhes Genéricos



Fundação



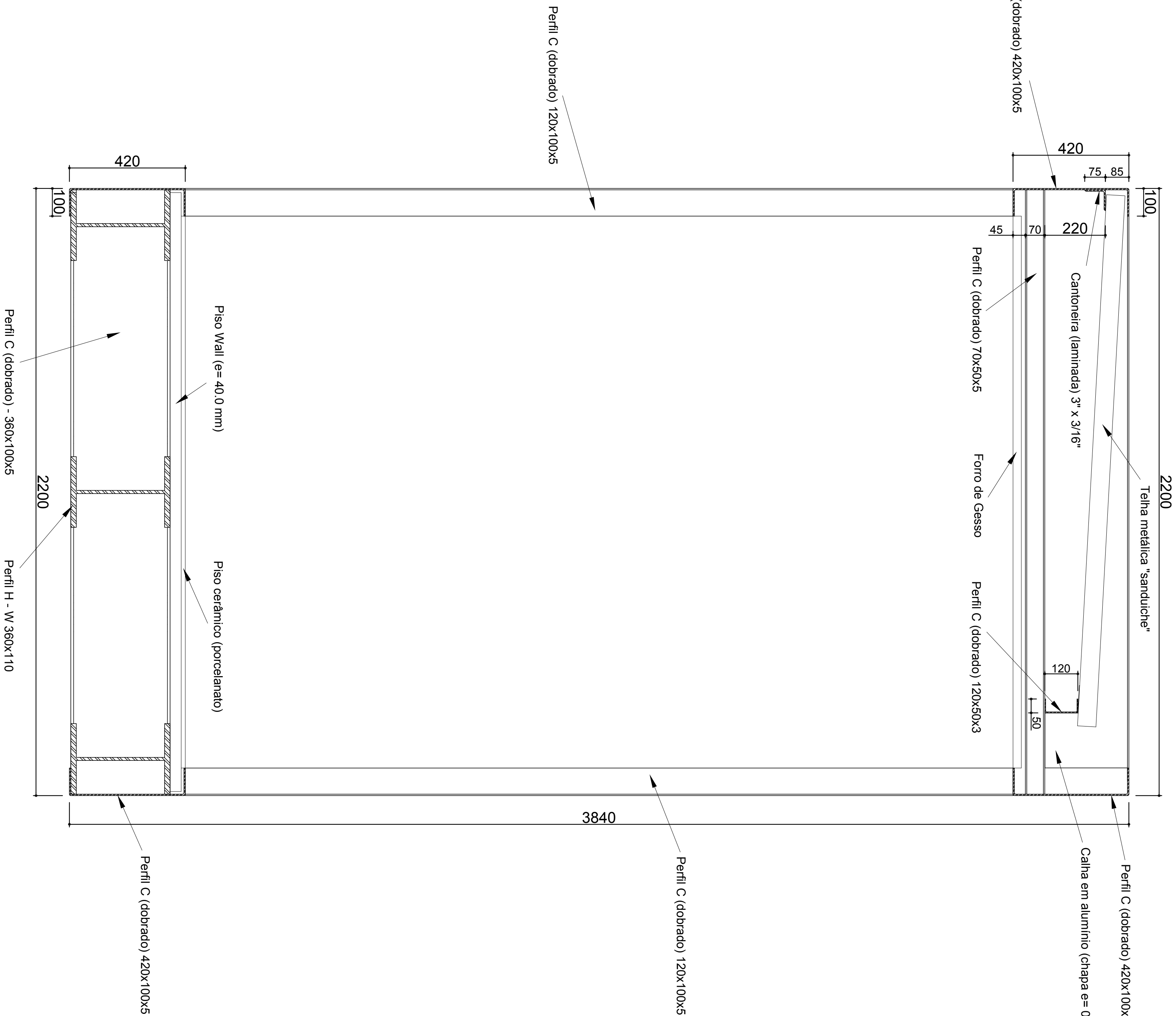
Relatório do aço						
Sessão	AÇO	N	DIAM.	QUANT.	UNIT.	C.TOTAL
	C&S6	1	6,3	17	2,64	4,488
		2	6,3	13	2,64	3,432
		3	6,3	6	2,48	1,488
		4	8,0	6	3,53	2,718
Resumo do aço						
AÇO	DIAM.	C.TOTAL	FESCO = 10 %			
(mm)	(cm)	(kg)				
C&S6	6,3	75,4	20,7			
C&S6	8,0	21,2	9,3			
FESCO TOTAL						
(Kg)						
	30,0					

Válua de desconto C(2-5) = 1,07 m²
 Área de ferrm = 5,90 m²
 Incógnita em x

Chemical	quantidade	unidade
Pentil H - V3000-110	34,8	m
Pentil C (V3000) - 300x100x15 mm	2,2	m
Pentil C (V3000) - 300x100x15 mm	2,2	m
Pentil C (V3000) - 300x100x15 mm	3,5	m
Pentil C (V3000) - 300x100x15 mm	3,5	m
Pentil C (V3000) - 300x100x15 mm	6,6	m
Pentil C (V3000) - 300x100x15 mm	9,0	m
Pentil C (V3000) - 300x100x15 mm	30,0	m
Pentil C (V3000) - 300x100x15 mm	33,0	m
Pentil C (V3000) - 300x100x15 mm	9,0	m
Chapas (ferro) - 550x20x19 mm	2,0	und
Chapas (ferro) - 550x20x19 mm	2,0	und
Chapas Ø 20	4,0	und
Chapas Ø 20	19,0	und

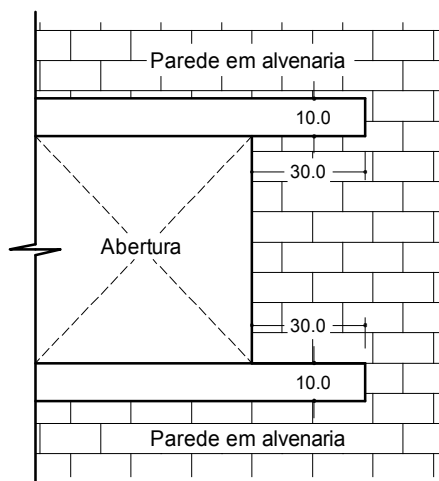
Passarelli São José
Norma de aço laminado: ABNT NBR 8800:2008
Norma de aço dobrado: ABNT NBR 14762: 2010
Aço laminado: A-36 250MPa
Aço dobrado: C-26

[illegible]

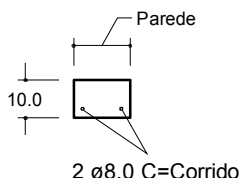


- Para mais detalhes , observar os projetos arquitetônicos da AMUNESC (PBA 01/06 a 06/06) e os demais complementares.

[illegible]



Verga & Contraverga (Vãos entre 3,0 e 5,0 metros)



Notas:

- 1) Executar verga e contraverga em todas as aberturas, obedecendo as especificações indicadas;
- 2) Utilizar esse detalhamento para as contravergas que suportem no máximo 50,0 cm de alvenaria sobre a abertura. Acima de 50,0 cm de altura ou de vão superior a 5,0 m, consultar o projetista;
- 3) Manter a verga escorada durante a execução da alvenaria sobre ela e do seu encunhamento;
- 4) Caso a abertura se encontre com um pilar da estrutura, os ferros da verga e contraverga devem ser unidos ao mesmo por meio de adesivo estrutural.



Associação de Municípios do Nordeste do Estado de Santa Catarina

89216-000 - JOINVILLE - SC - Rua Max Colln, 1843 - América - Fone: 0**47 433-3927
ASSESSORIA E COORDENADORIA DE PLANEJAMENTO URBANO, MUNICIPAL E REGIONAL
home page : www.amunesc.org.br CREA SC 48.825-4

Engenheiros Responsáveis: GUSTAVO HARGER PAUL
VAGNER BALDINI

Projeto

HOSPITAL MUNICIPAL SÃO JOSÉ PROJETO ESTRUTURAL

Uso: E2.2

Área total: 2.314,71 m²

Terreno

FUNDO MUNICIPAL DE SAÚDE DE JOINVILLE

Endereço : Rua Doutor Plácido Gomes nº408, Anita Garibaldi - Joinville/SC

Inscrição Imobiliária: 13.20.13.56.1604-000

Identificações e Assinaturas

ADMINISTRAÇÃO :

ASSINATURA :

SECRETÁRIA DE SAÚDE DO MUNICÍPIO

PROJETO :

ASSINATURA RESPONSÁVEL PELO PROJETO :

Gustavo Harger Paul
Engenheiro Civil CREA/SC 129261-3

EXECUÇÃO :

ASSINATURA RESPONSÁVEL PELA EXECUÇÃO:

Prancha

Informações

Desenho: Gustavo
Nome do Arquivo:
Escala: s/ esc.
Data: Junho do 2016

CONTEÚDO DA PRANCHA

DETALHE: VERGA E CONTRAVERGA

NÚMERO PR.

EST
S/ N