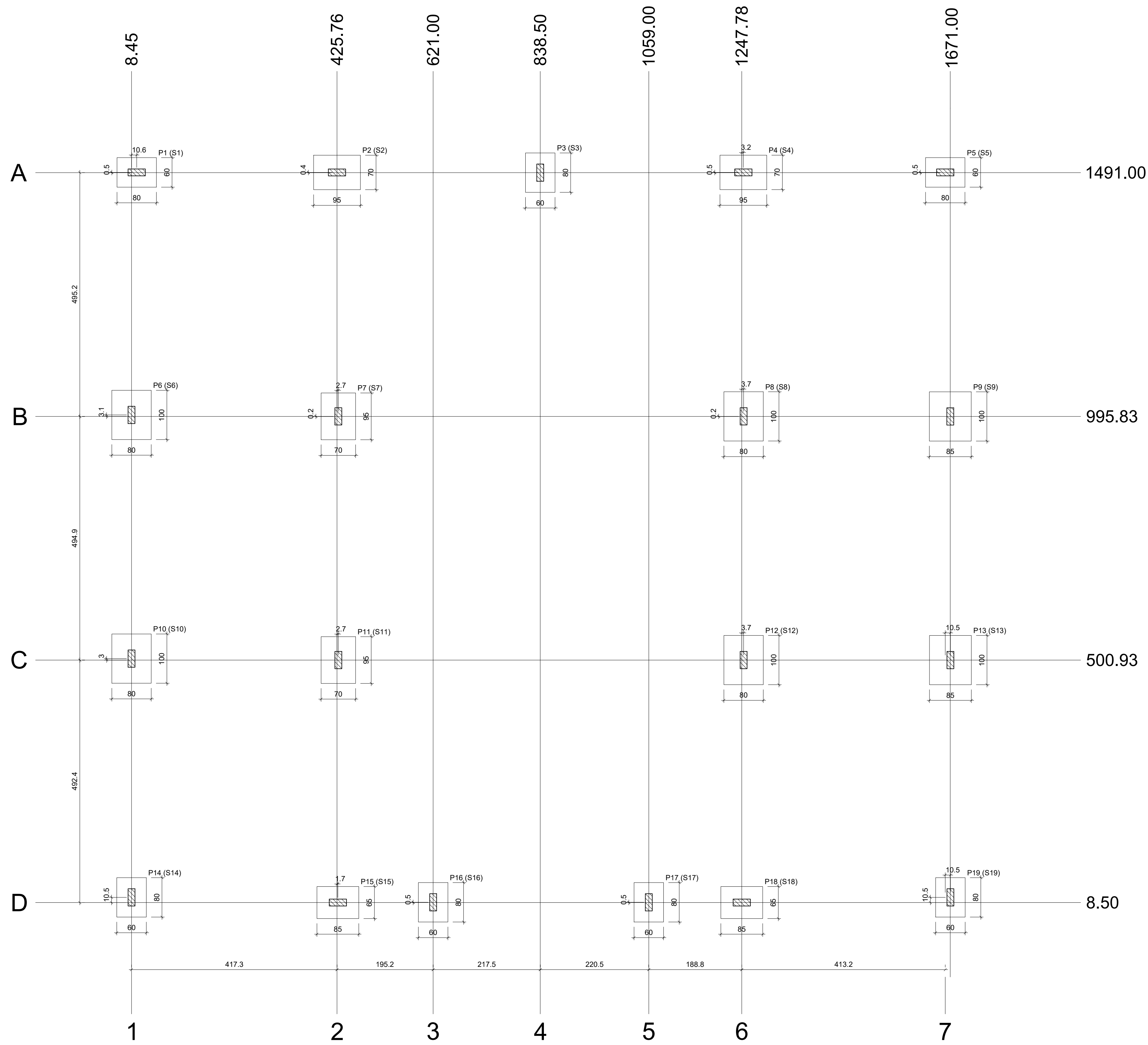
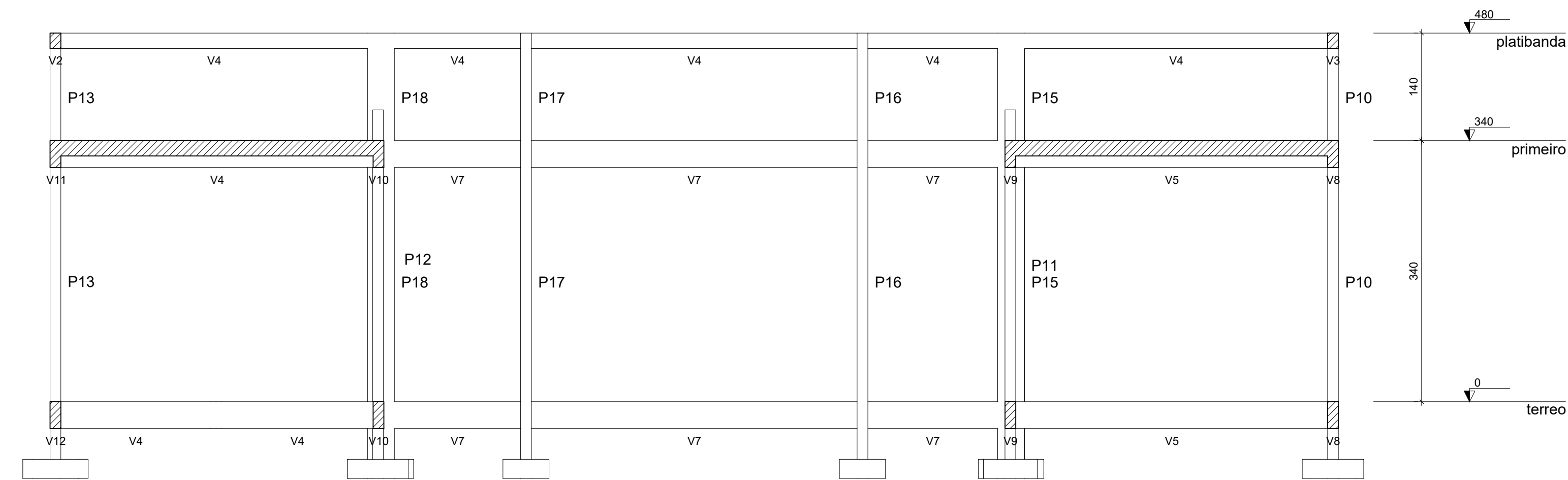


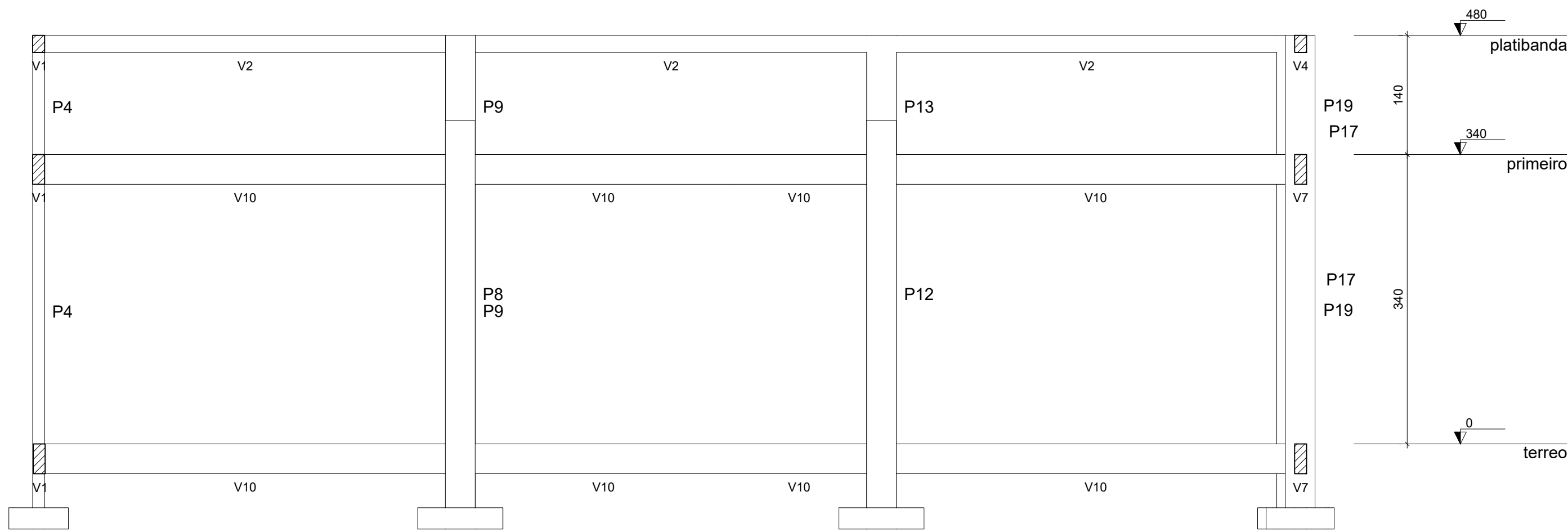


Pilar		Fundação					
Nome	Seção	Nome	Lado B	Lado H	h0 / ha	h1 / hb	df
P1	14x35	S1	60	80	25	25	100
P2	14x35	S2	70	95	25	25	100
P3	14x35	S3	60	80	25	25	100
P4	14x35	S4	70	95	25	25	100
P5	14x35	S5	60	80	25	25	100
P6	14x35	S6	80	100	25	25	100
P7	14x35	S7	70	95	25	25	100
P8	14x35	S8	80	100	25	25	100
P9	14x35	S9	85	100	25	25	100
P10	14x35	S10	80	100	25	25	100
P11	14x35	S11	70	95	25	25	100
P12	14x35	S12	80	100	25	25	100
P13	14x35	S13	85	100	25	25	100
P14	14x35	S14	60	80	25	25	100
P15	14x35	S15	65	85	25	25	120
P16	14x35	S16	60	80	25	25	100
P17	14x35	S17	60	80	25	25	100
P18	14x35	S18	65	85	25	25	100
P19	14x35	S19	60	80	25	25	100

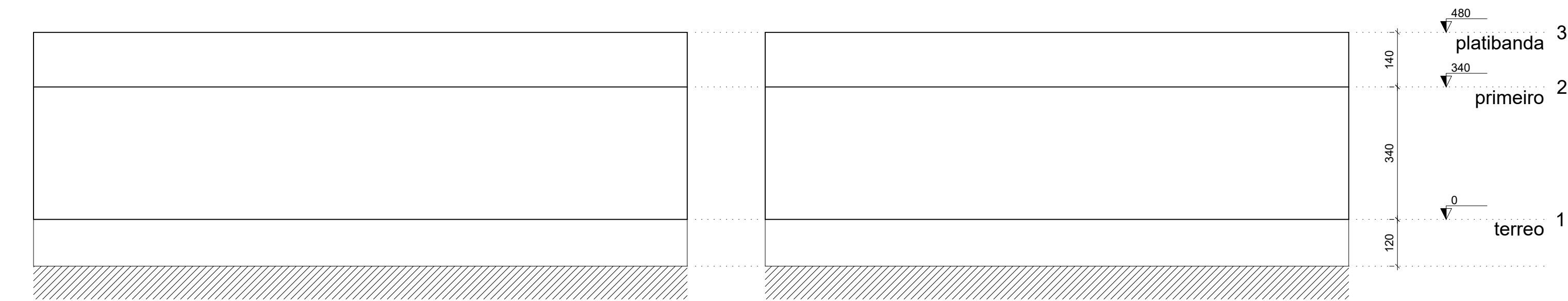
Planta de locação
escala 1:50



Corte A-A
escala 1:50



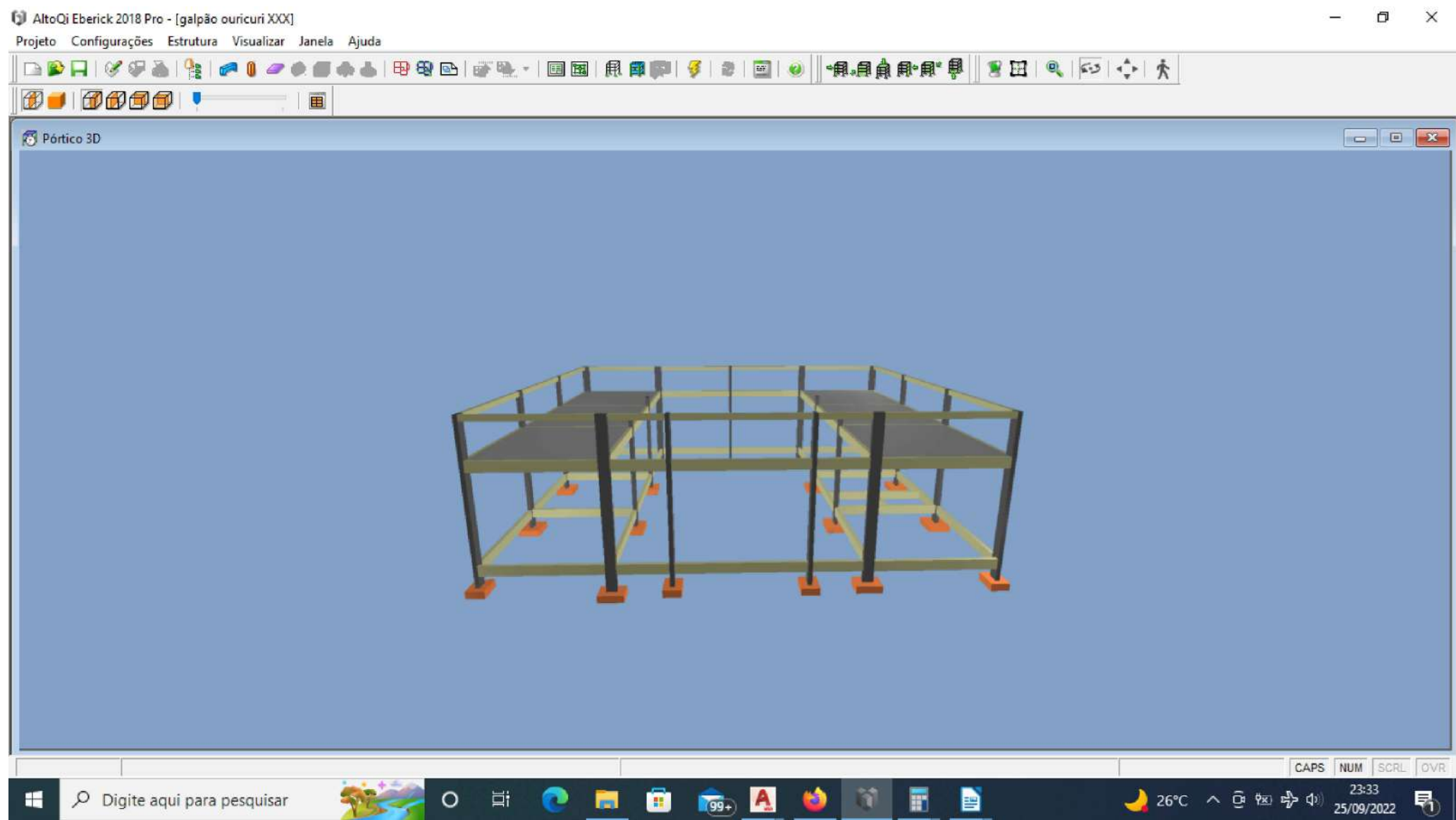
Corte B-B
escala 1:50

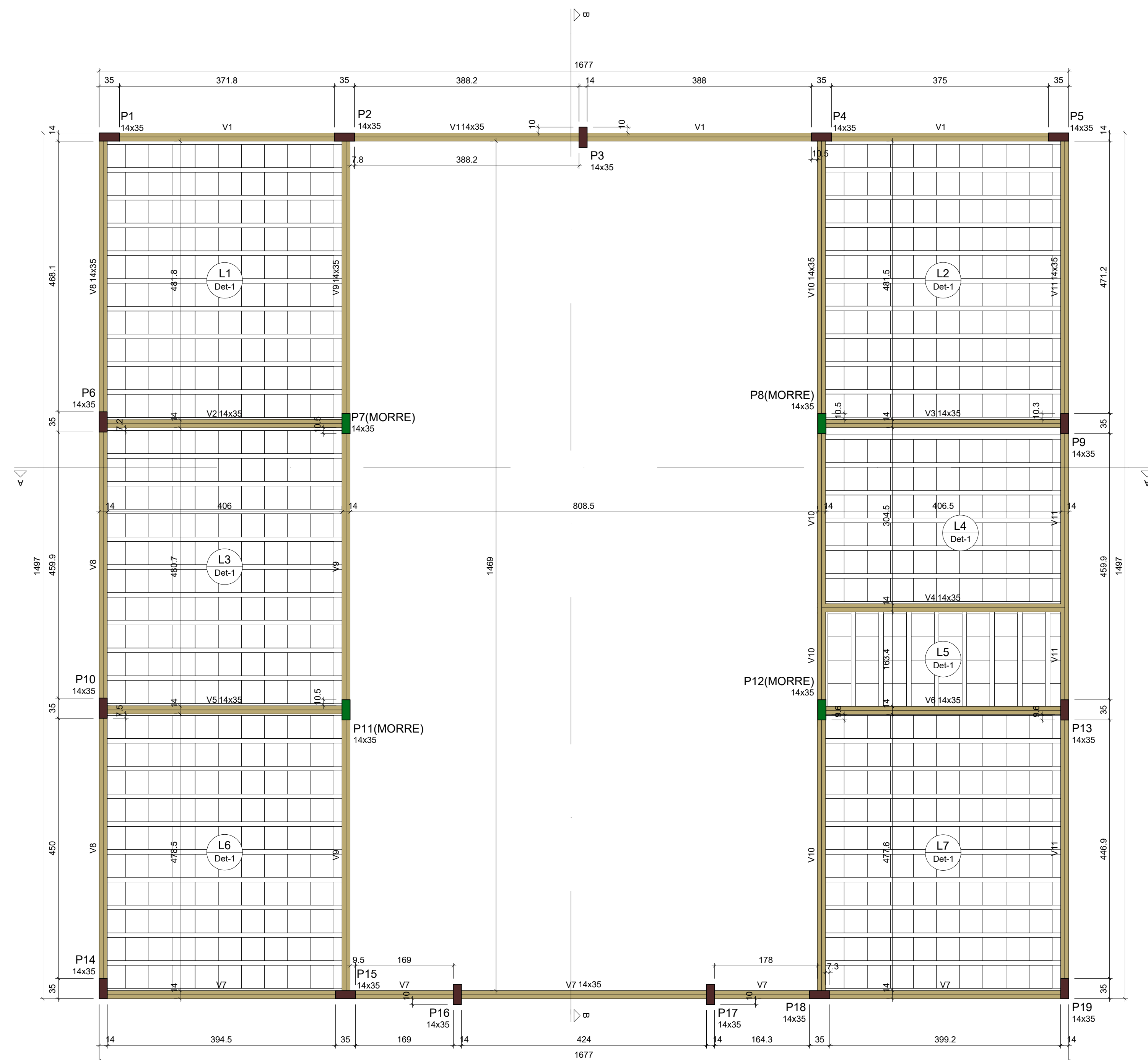


Corte X-X
escala 1:100

Corte Y-Y
escala 1:100

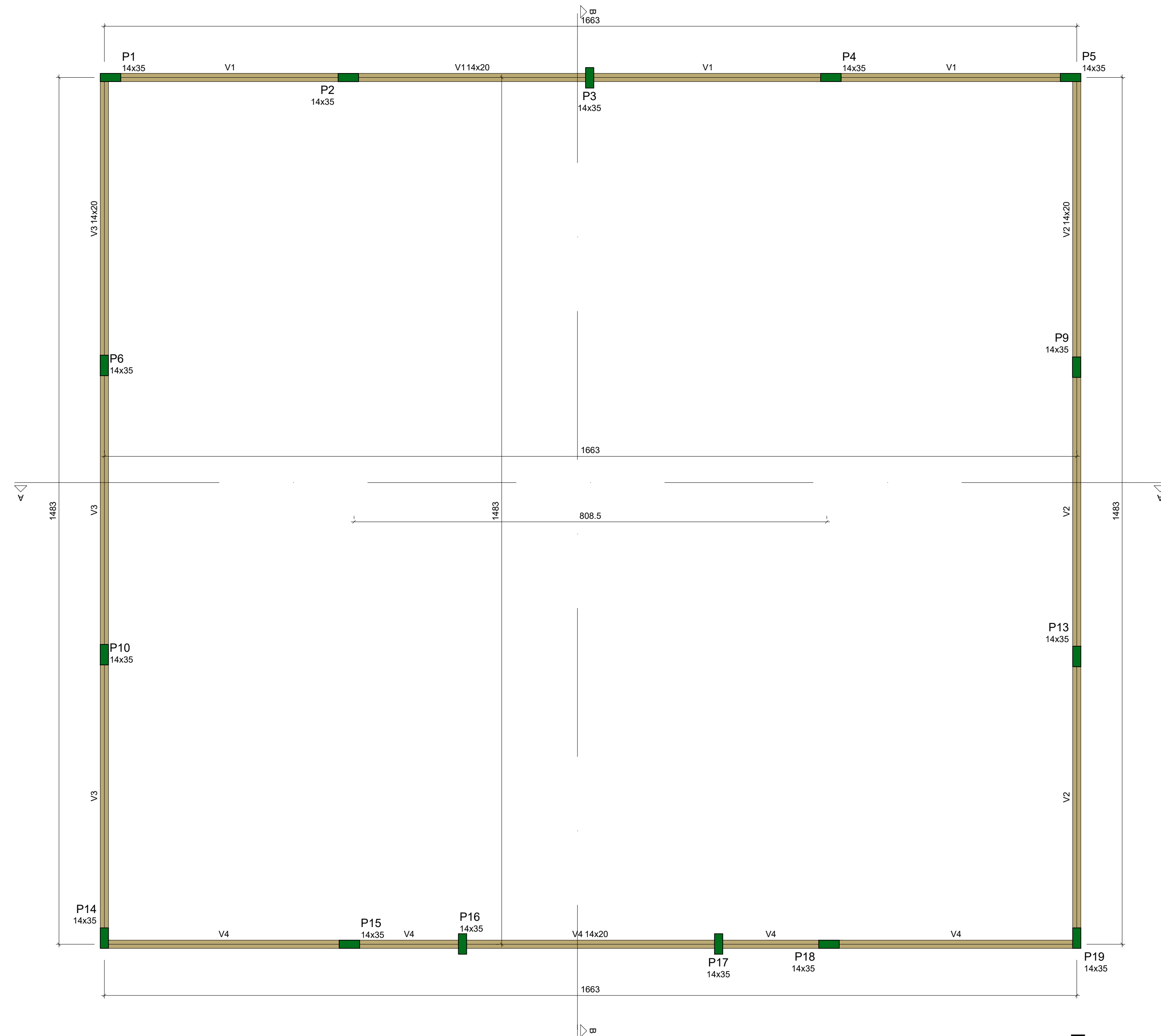
CORTE ESQUEMÁTICO





Forma do pavimento primeiro

escala 1:50



Forma do platibanda

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x35	0	340
V2	14x35	0	340
V3	14x35	0	340
V4	14x35	0	340
V5	14x35	0	340
V6	14x35	0	340
V7	14x35	0	340
V8	14x35	0	340
V9	14x35	0	340
V10	14x35	0	340
V11	14x35	0	340

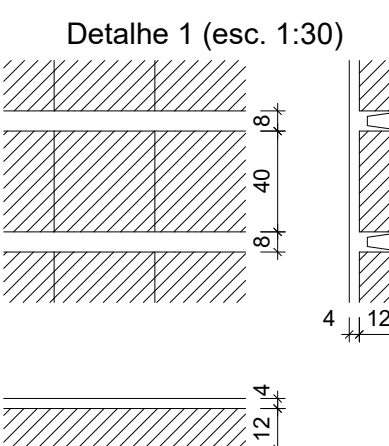
Lajes						
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Sobrecarga (kgf/m²)
L1	Pré-moldada	16	0	340	169	155
L2	Pré-moldada	16	0	340	169	155
L3	Pré-moldada	16	0	340	169	155
L4	Pré-moldada	16	0	340	169	155
L5	Pré-moldada	16	0	340	169	155
L6	Pré-moldada	16	0	340	169	155
L7	Pré-moldada	16	0	340	169	155

Características dos materiais		
fck (kgf/cm²)	Ecs (kgf/cm²)	
250	241500	

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x35	0	340
P2	14x35	0	340
P3	14x35	0	340
P4	14x35	0	340
P5	14x35	0	340
P6	14x35	0	340
P7	14x35	40	380
P8	14x35	40	380
P9	14x35	0	340
P10	14x35	0	340
P11	14x35	40	380
P12	14x35	40	380
P13	14x35	0	340
P14	14x35	0	340
P15	14x35	0	340
P16	14x35	0	340
P17	14x35	0	340
P18	14x35	0	340
P19	14x35	0	340

Legenda dos pilares		Legenda das vigas e paredes	
	Pilar que morre		Viga
	Pilar que passa		



Blocos de enchimento					
Detalhe	Tipo	Nome	Dimensões (cm)	Quantidade	
1	EPS Unidirecional	B12/40/40	12 40 40	596	

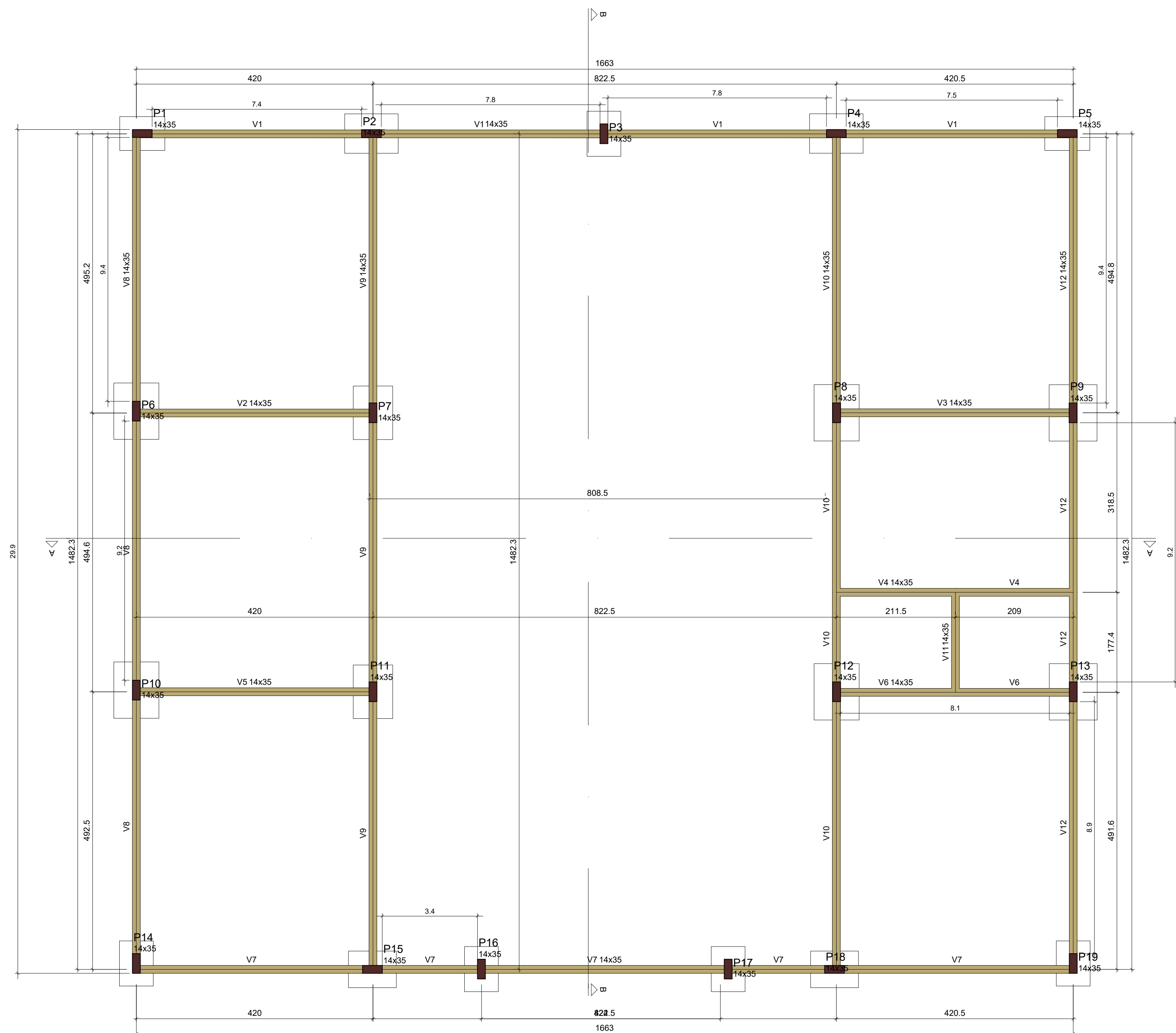
Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x20	0	480
V2	14x20	0	480
V3	14x20	0	480
V4	14x20	0	480

Características dos materiais		
fck (kgf/cm²)	Ecs (kgf/cm²)	
250	241500	

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x35	0	480
P2	14x35	0	480
P3	14x35	0	480
P4	14x35	0	480
P5	14x35	0	480
P6	14x35	0	480
P7	14x35	0	480
P8	14x35	0	480
P9	14x35	0	480
P10	14x35	0	480
P11	14x35	0	480
P12	14x35	0	480
P13	14x35	0	480
P14	14x35	0	480
P15	14x35	0	480
P16	14x35	0	480
P17	14x35	0	480
P18	14x35	0	480
P19	14x35	0	480

Legenda dos pilares		Legenda das vigas e paredes	
	Pilar que morre		Viga
	Pilar que passa		



Forma do pavimento terreo

escala 1:50

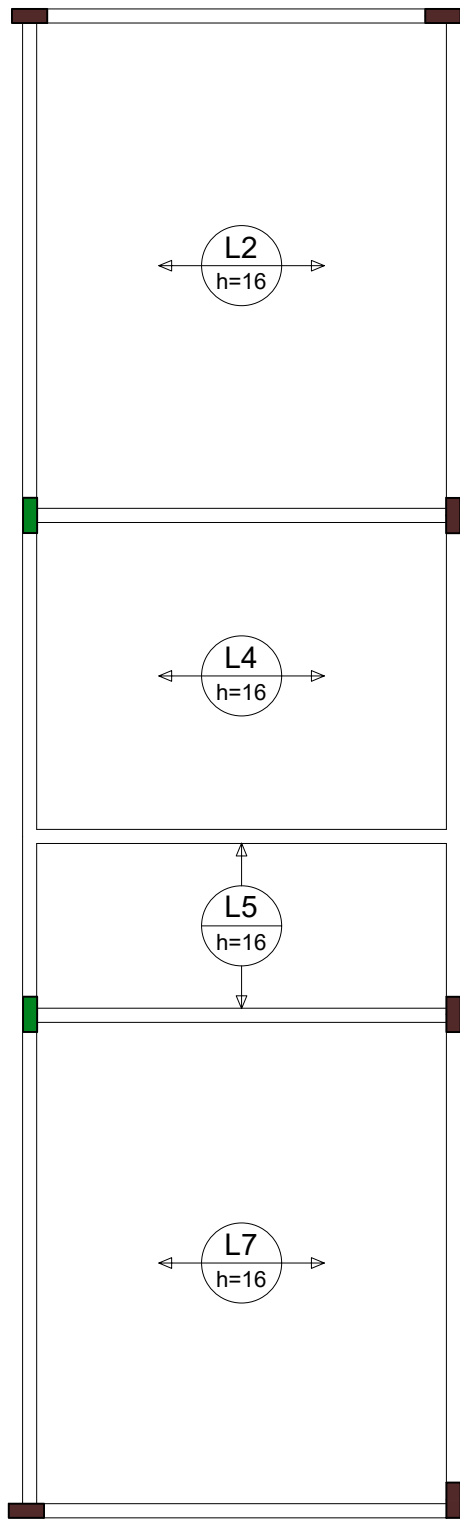
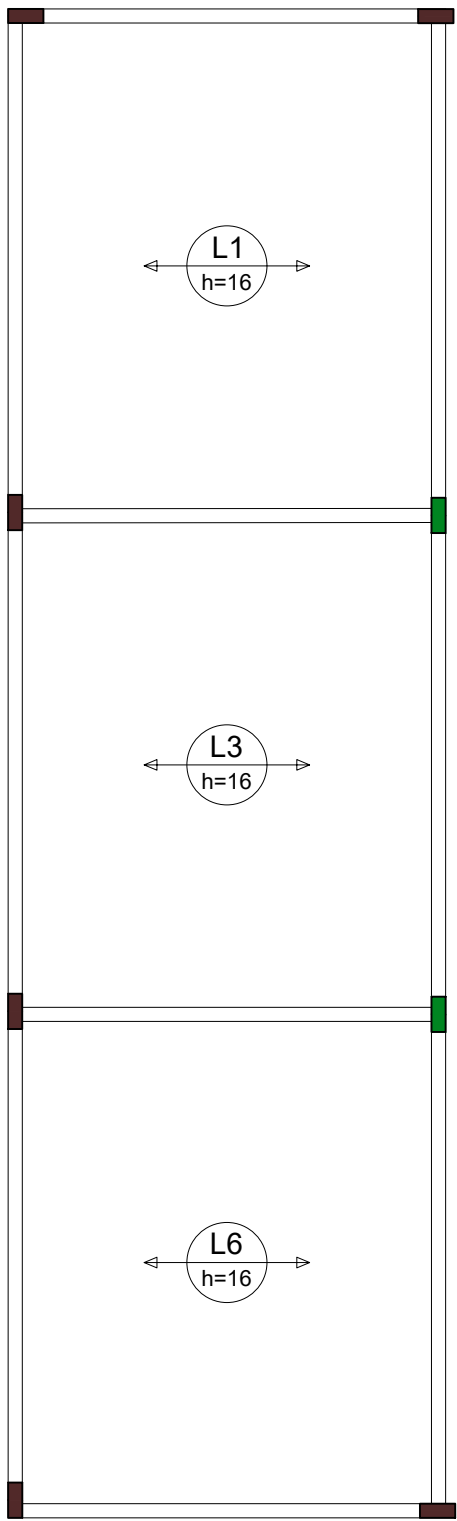
Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x35	0	0
V2	14x35	0	0
V3	14x35	0	0
V4	14x35	0	0
V5	14x35	0	0
V6	14x35	0	0
V7	14x35	0	0
V8	14x35	0	0
V9	14x35	0	0
V10	14x35	0	0
V11	14x35	0	0
V12	14x35	0	0

Características dos materiais		
fck (kgf/cm²)	Ecs (kgf/cm²)	
250	241500	

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x35	0	0
P2	14x35	0	0
P3	14x35	0	0
P4	14x35	0	0
P5	14x35	0	0
P6	14x35	0	0
P7	14x35	0	0
P8	14x35	0	0
P9	14x35	0	0
P10	14x35	0	0
P11	14x35	0	0
P12	14x35	0	0
P13	14x35	0	0
P14	14x35	0	0
P15	14x35	0	0
P16	14x35	0	0
P17	14x35	0	0
P18	14x35	0	0
P19	14x35	0	0

Legenda dos pilares		Legenda das vigas e paredes	
	Pilar que passa		Viga



Armação positiva das lajes do pavimento primeiro (Eixo X)
escala 1:75

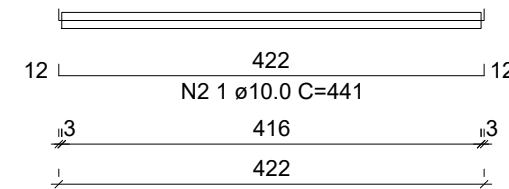
RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10.0	15.4	2	6.7
CA60	10.0	225.2	21	152.7
PESO TOTAL (kg)				
CA50	159.4			
CA60	146.0			

(ARMADURA DE DISTRIBUIÇÃO= MALHA POP 15X15 DIÂMETRO 3.2 3X2M 146.0kg)

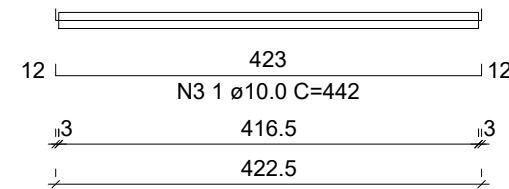
CONCRETO CAPEAMENTO 4CM - 4.70M³

VIGOTAS PRÉ-MOLDADAS

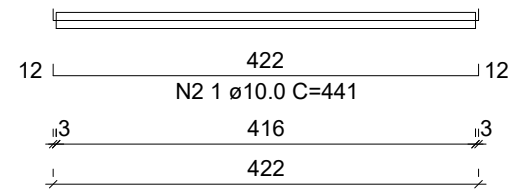
VP1a (9 unidades)
(L1)
ESC 1:75



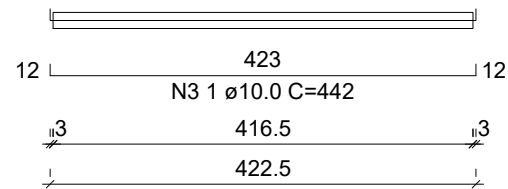
VP2a (9 unidades)
(L2)
ESC 1:75



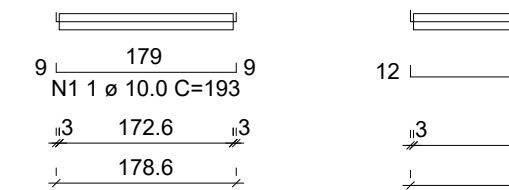
VP3a (9 unidades)
(L3)
ESC 1:75



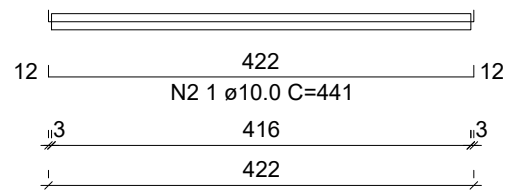
VP4a (6 unidades)
(L4)
ESC 1:75



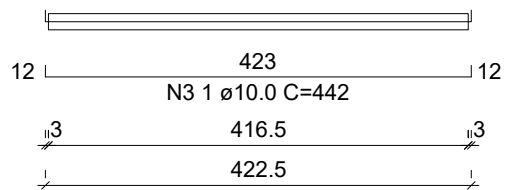
VP5a (8 unidades)
(L5)
ESC 1:75



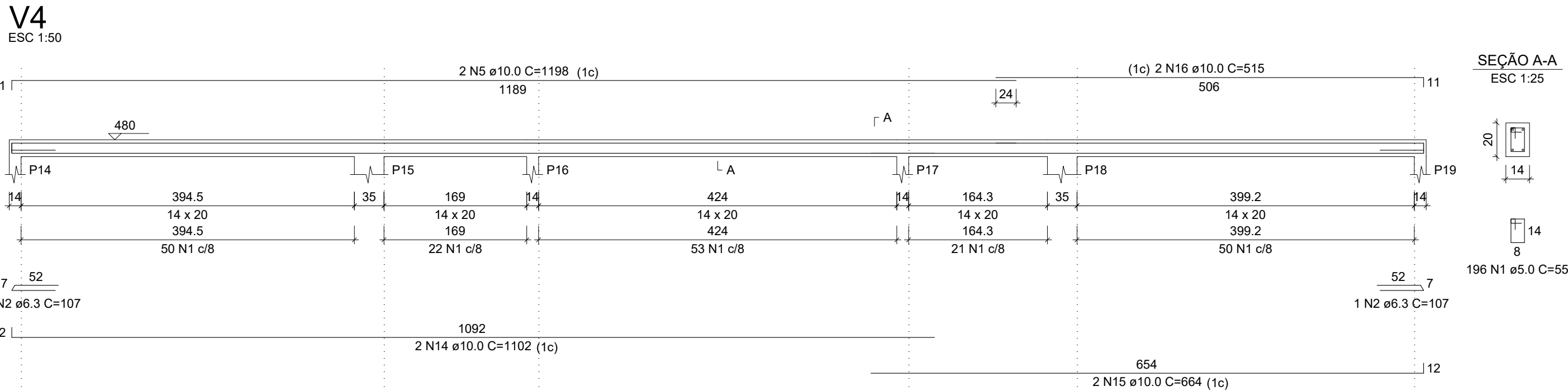
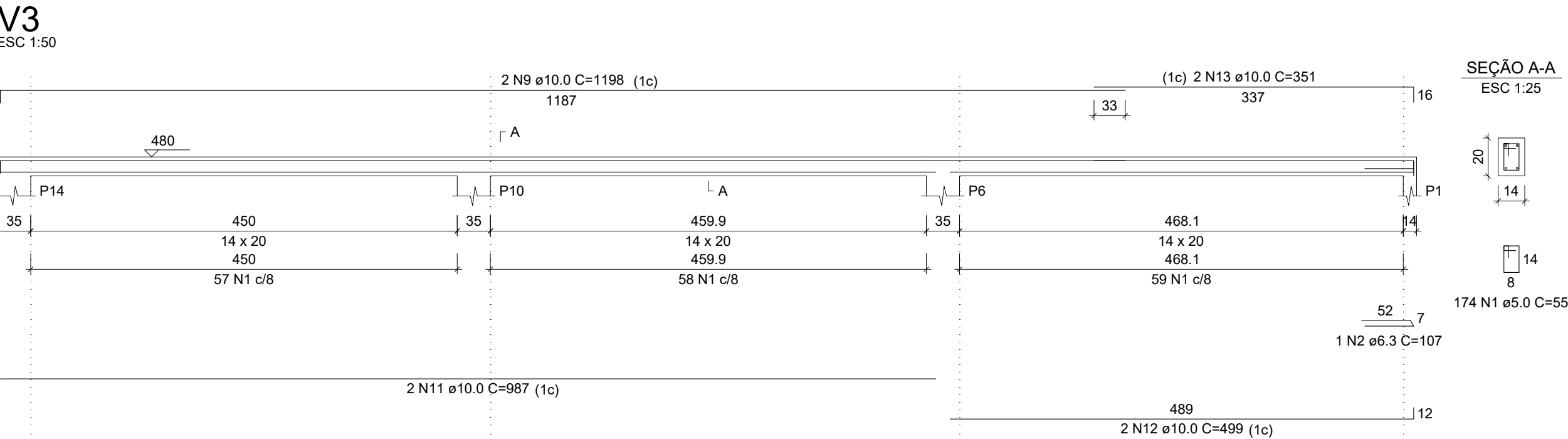
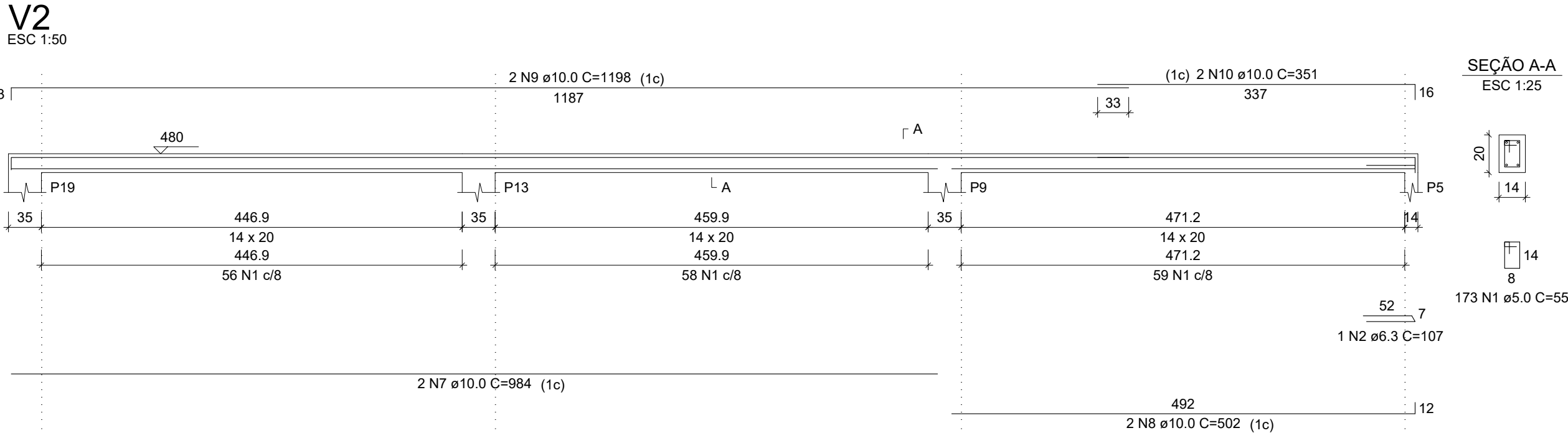
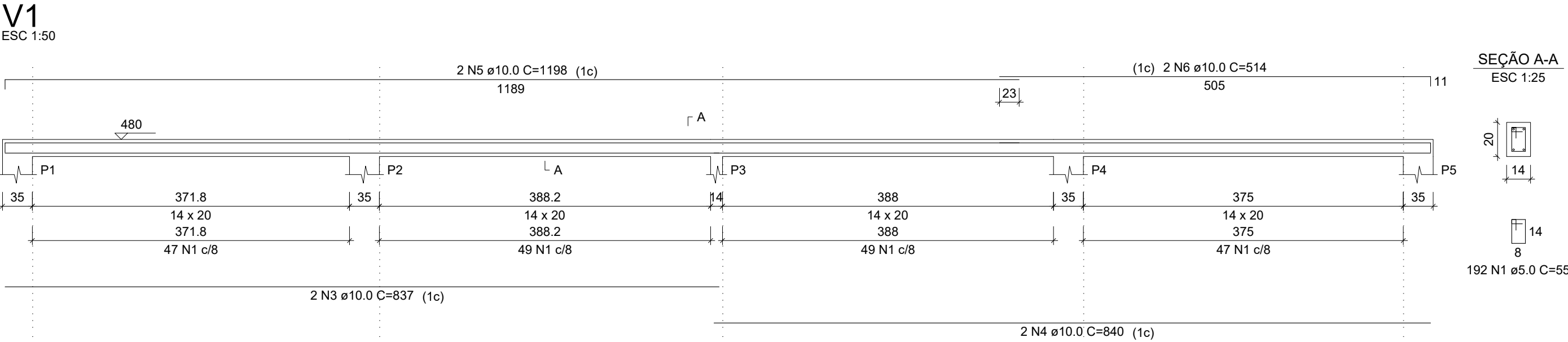
VP6a (9 unidades)
(L6)
ESC 1:75



VP7a (9 unidades)
(L7)
ESC 1:75



VIGAS DO PLATIBANDA



RELAÇÃO DO AÇO					
V1		V2		V3	
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60 CA50	1	5.0	735	55	40425
	2	6.3	4	107	428
	3	10.0	2	837	1674
	4	10.0	2	840	1680
	5	10.0	4	1198	4792
	6	10.0	2	514	1028
	7	10.0	2	984	1968
	8	10.0	2	502	1004
	9	10.0	4	1198	4792
	10	10.0	2	351	702
	11	10.0	2	987	1974
	12	10.0	2	499	998
	13	10.0	2	351	702
	14	10.0	2	1102	2204
	15	10.0	2	664	1328
	16	10.0	2	515	1030

RESUMO DO AÇO					
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	6.3	4.3	1	12 m	1.2
CA60	10.0	258.8	24	12 m	175.5
CA60	5.0	404.3	-	rolo (170 kg)	68.5
PESO TOTAL (kg)					
CA50	176.6				
CA60	68.5				

Volume de concreto (C-25) = 1.78 m³
Área de forma = 34.28 m²



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SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IF Sertão PE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:
VIGAS DO PLATIBANDA (ALMOXARIFADO)

ESCALA:
1/50

DATA:
ABRIL/2025

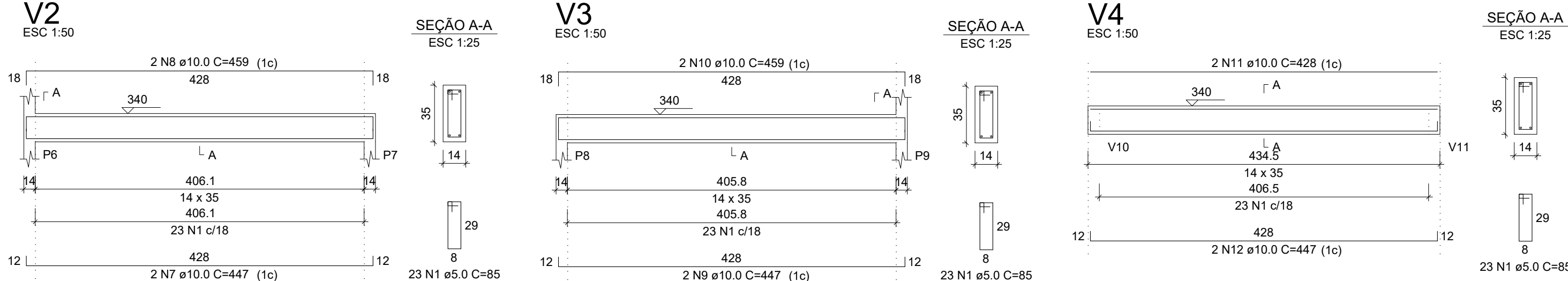
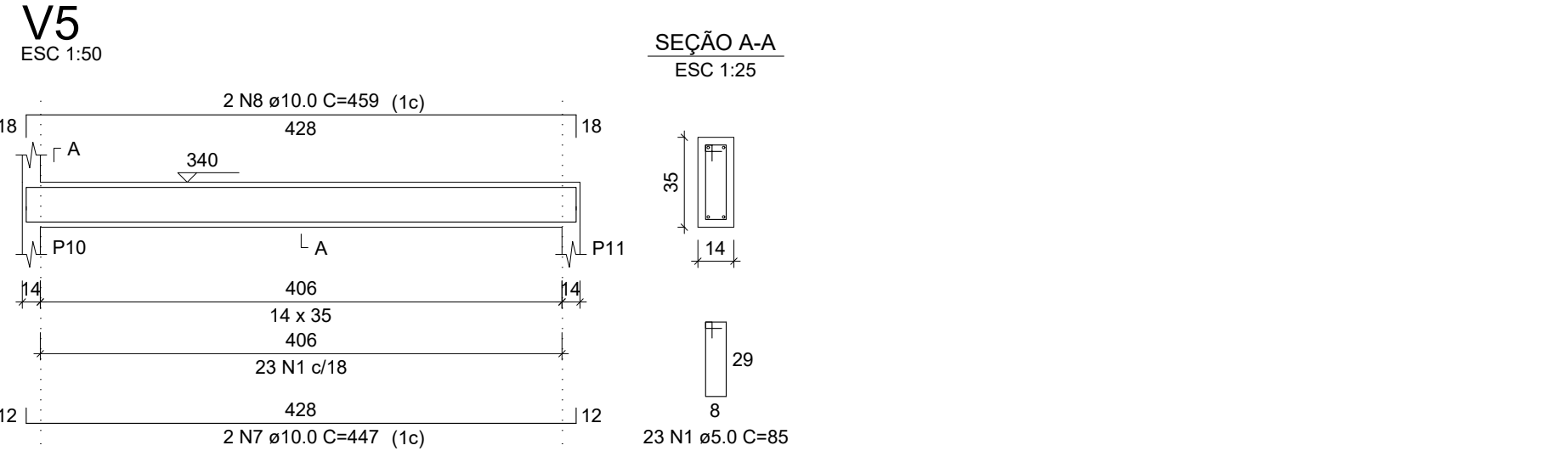
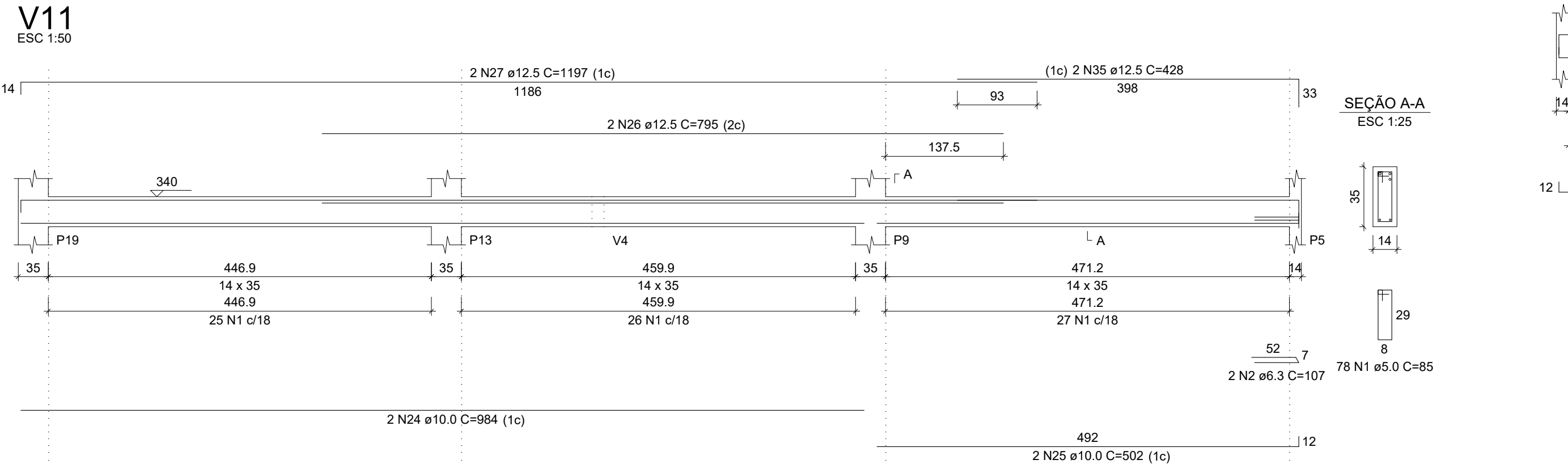
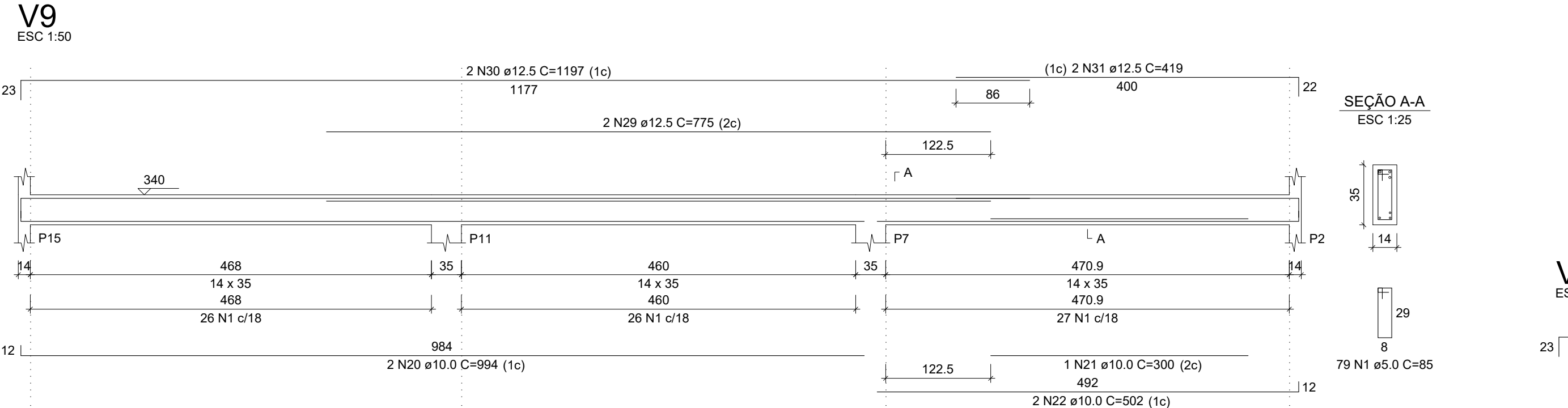
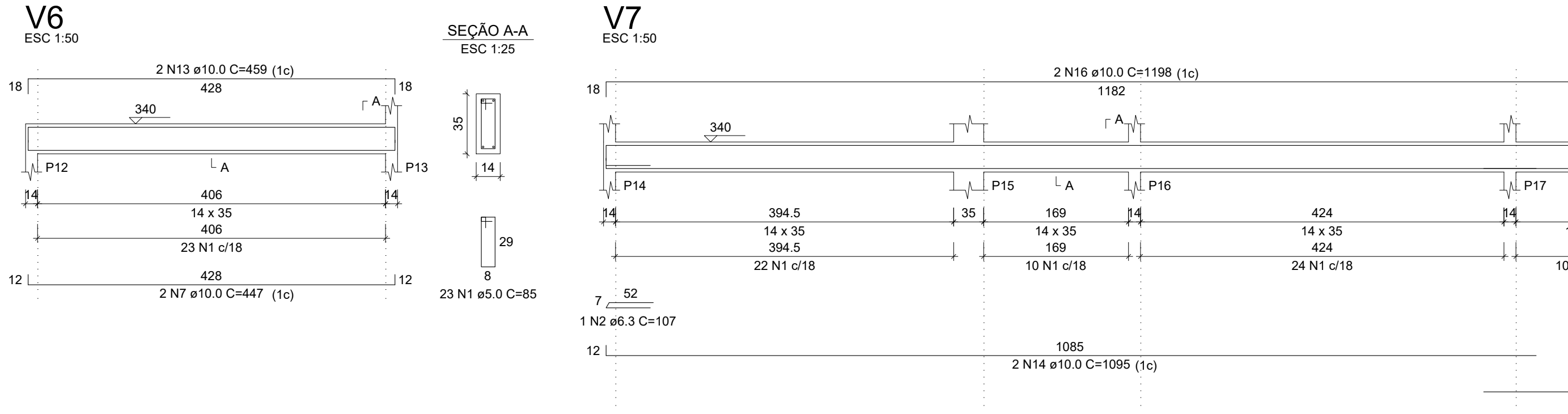
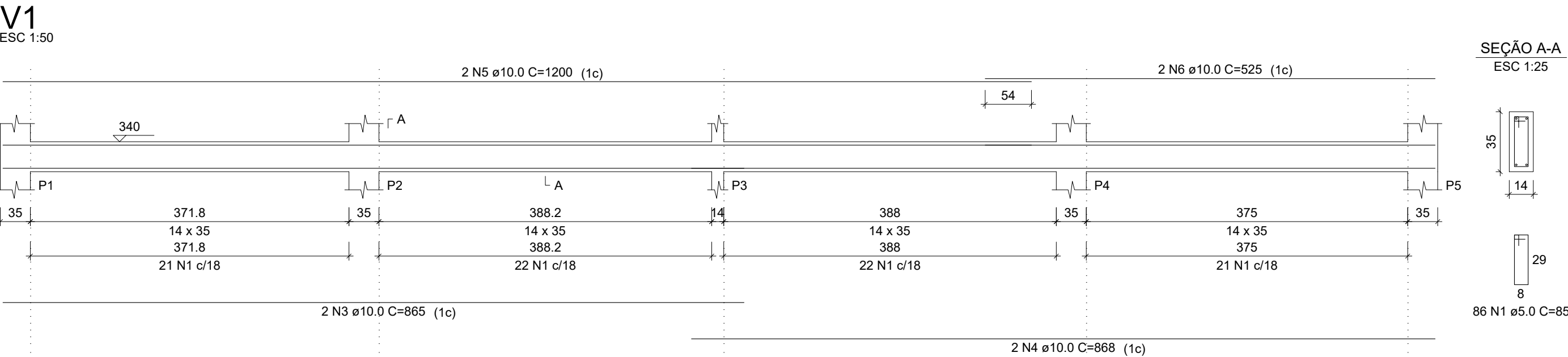
ASSINATURACARRIMBO - DIREÇÃO GERAL

ASSINATURACARRIMBO - RESPONSÁVEL TÉCNICO

FRANQUÍIA
05/09

Wilson Nery da Cunha - CREA BA 14748

VIGAS DO PRIMEIRO PAVIMENTO



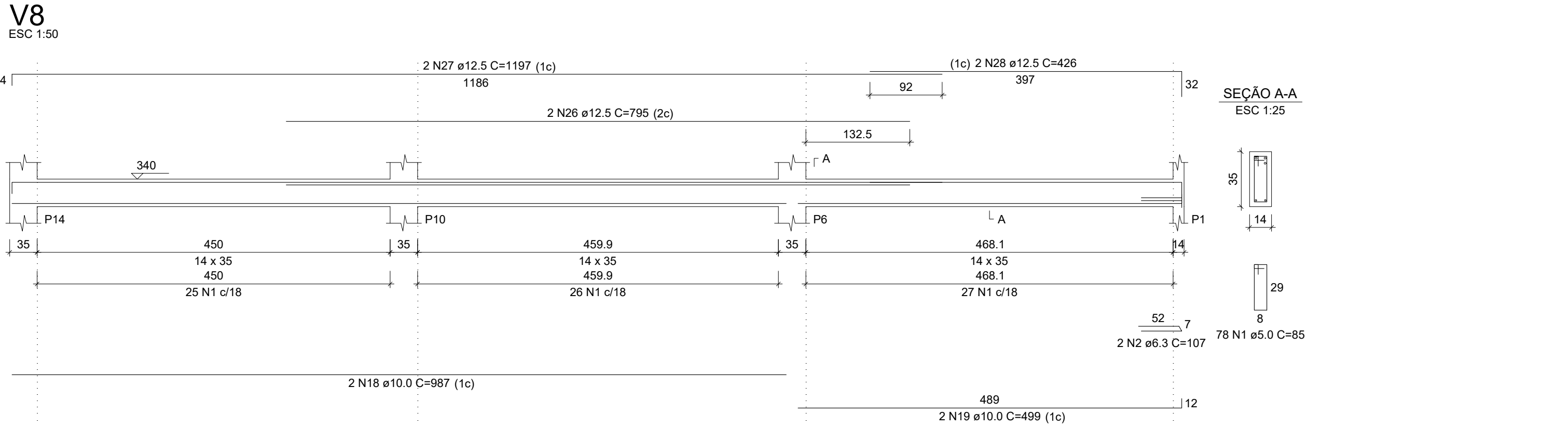
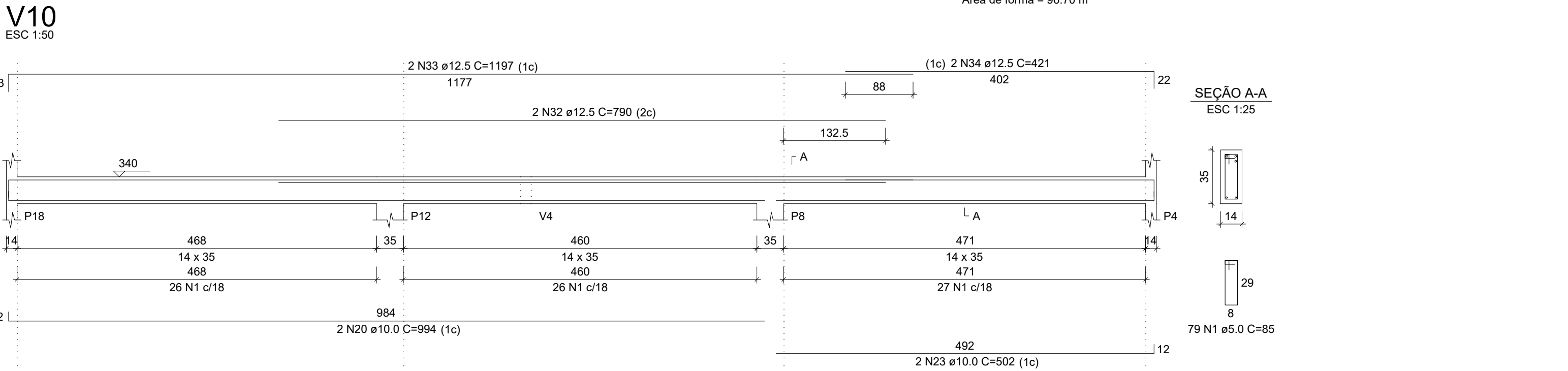
RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	85	604	51340
CA50	2	6.3	6	107	642
	3	10.0	2	865	1730
	4	10.0	2	868	1735
	5	10.0	2	1200	2400
	6	10.0	2	525	1050
	7	10.0	6	447	2682
	8	10.0	4	459	1836
	9	10.0	2	447	894
	10	10.0	2	459	918
	11	10.0	2	428	856
	12	10.0	2	447	894
	13	10.0	2	459	918
	14	10.0	2	1095	2190
	15	10.0	2	657	1314
	16	10.0	2	1198	2396
	17	10.0	2	554	1108
	18	10.0	2	987	1974
	19	10.0	2	499	998
	20	10.0	4	994	3976
	21	10.0	1	300	300
	22	10.0	2	502	1004
	23	10.0	2	502	1004
	24	10.0	2	984	1968
	25	10.0	2	502	1004
	26	12.5	4	795	3180
	27	12.5	4	1197	4788
	28	12.5	2	426	852
	29	12.5	2	775	1550
	30	12.5	2	1197	2394
	31	12.5	2	419	838
	32	12.5	2	790	1580
	33	12.5	2	1197	2394
	34	12.5	2	421	842
	35	12.5	2	428	856

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	6.3	6.4	1	12 m	1.7
	10.0	351.5	33	12 m	238.4
	12.5	192.7	18	12 m	204.2
CA60	5.0	513.4	-	rolo (170 kg)	87
PESO TOTAL (kg)					
CA50		444.4			
CA60		87			

Volume de concreto (C-25) = 5.64 m³
Área de forma = 96.70 m²



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Sertão Pernambucano

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Rua Aristarco Lopes, 240 | Centro
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PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IF Sertão PE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:
VIGAS DO PRIMEIRO PAVIMENTO (ALMOXARIFADO)

ESCALA:
1/50

DATA:
ABRIL/2025

ASSINATURA CARIMBO - DIREÇÃO GERAL

ASSINATURA CARIMBO - RESPONSÁVEL TÉCNICO

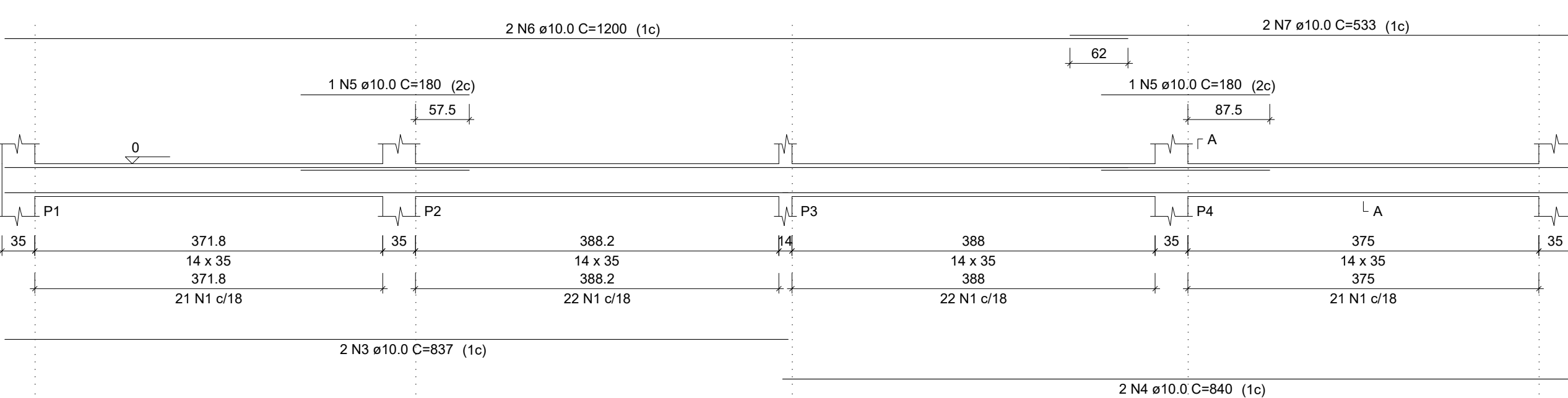
ASSINATURA CARIMBO - FRANQUÍIA

Wilson Nery da Cunha - CREA BA 14748

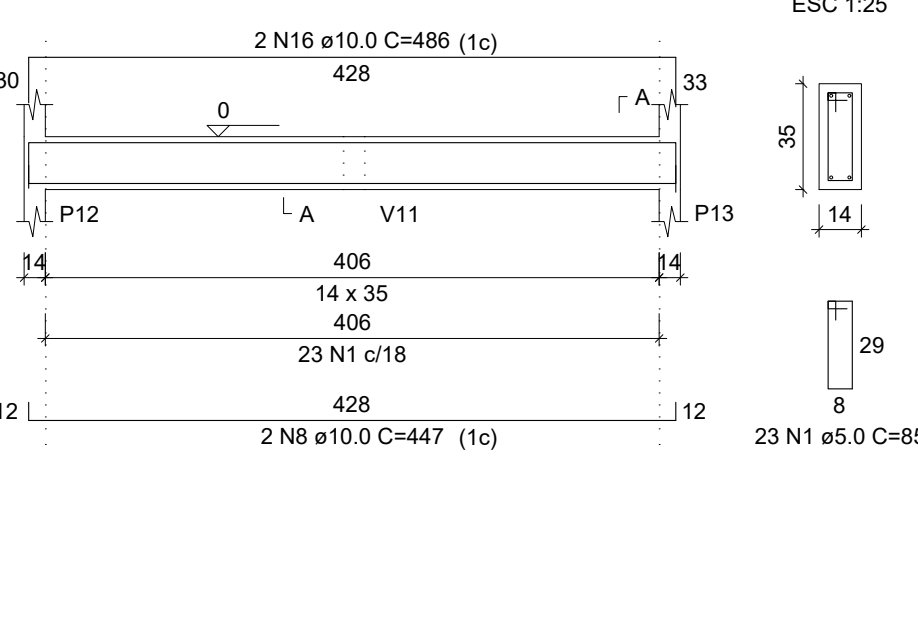
06/09

VIGAS DO PAVIMENTO TÉRREO

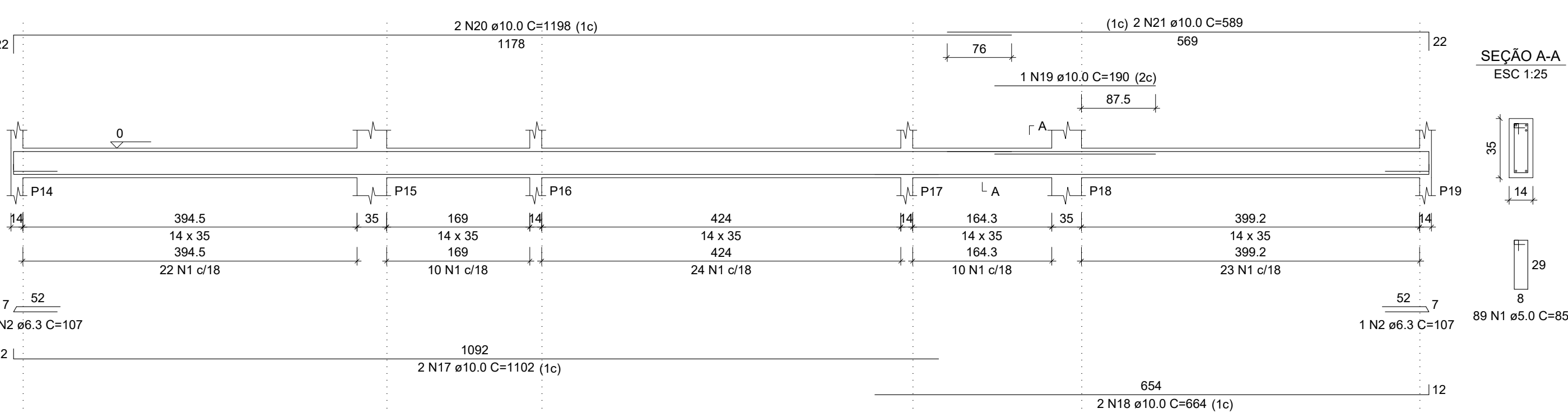
V1
ESC 1:50



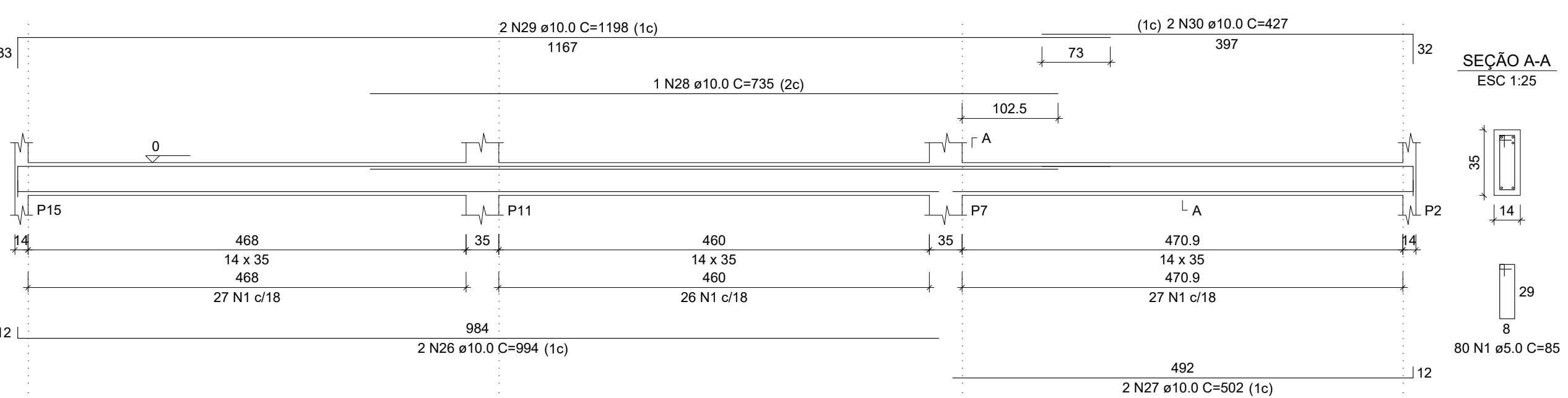
V6
ESC 1:50



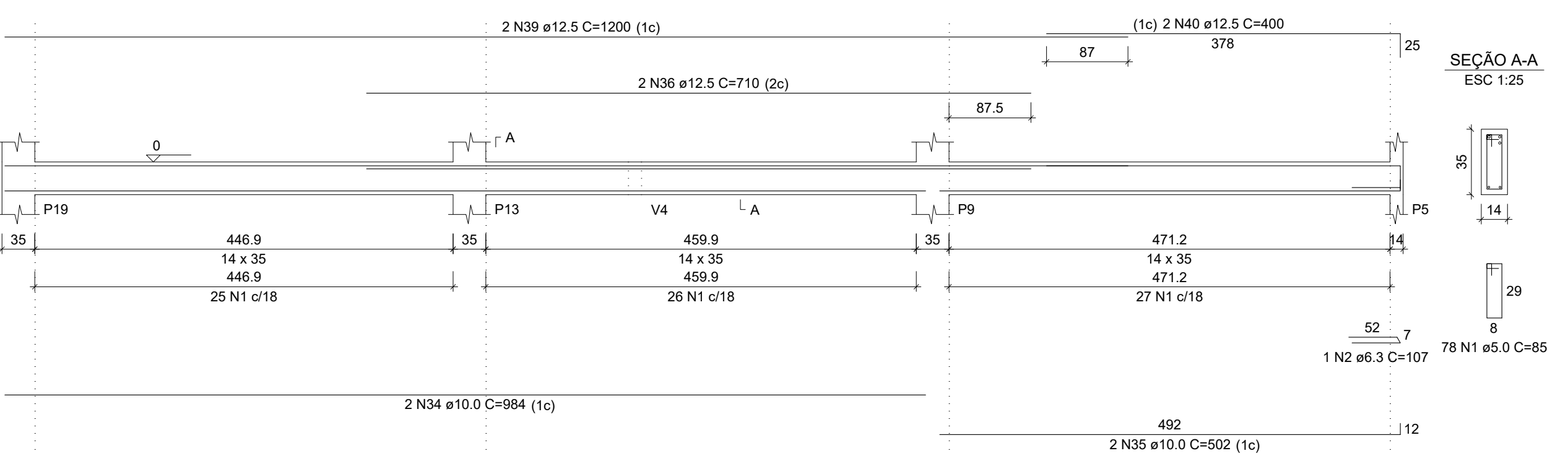
V7
ESC 1:50



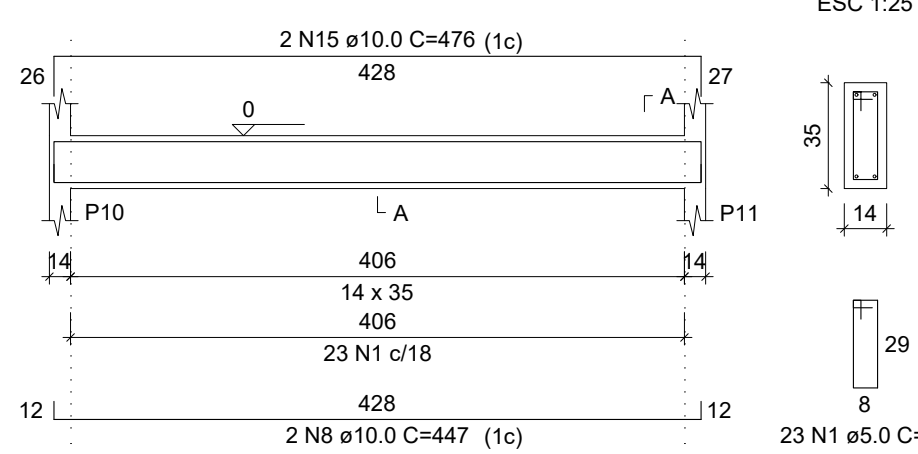
V9
ESC 1:50



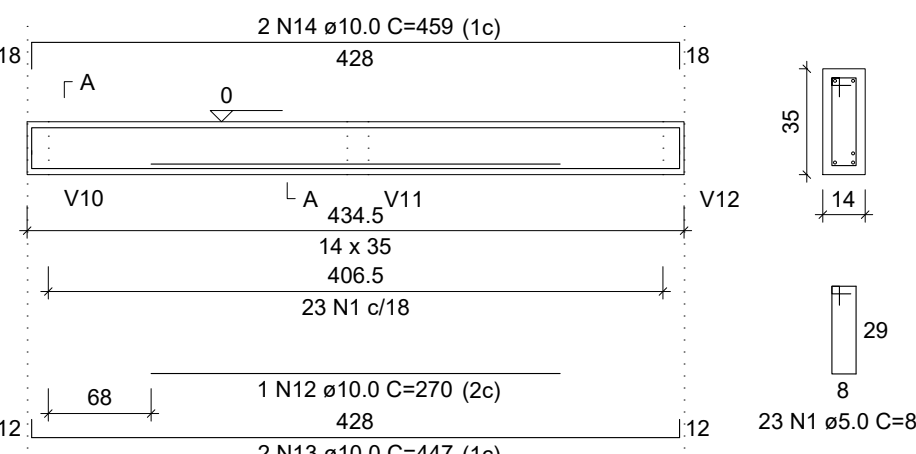
V12
ESC 1:50



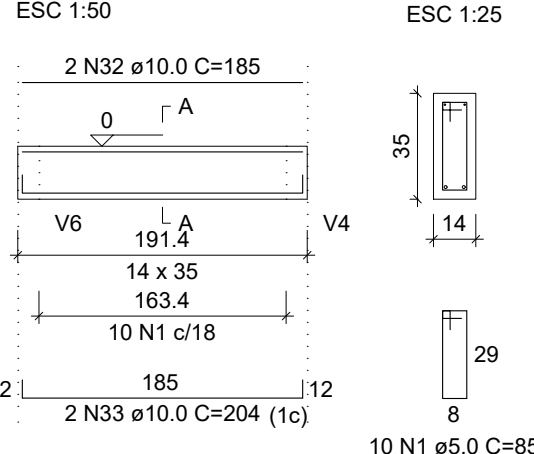
V5
ESC 1:50



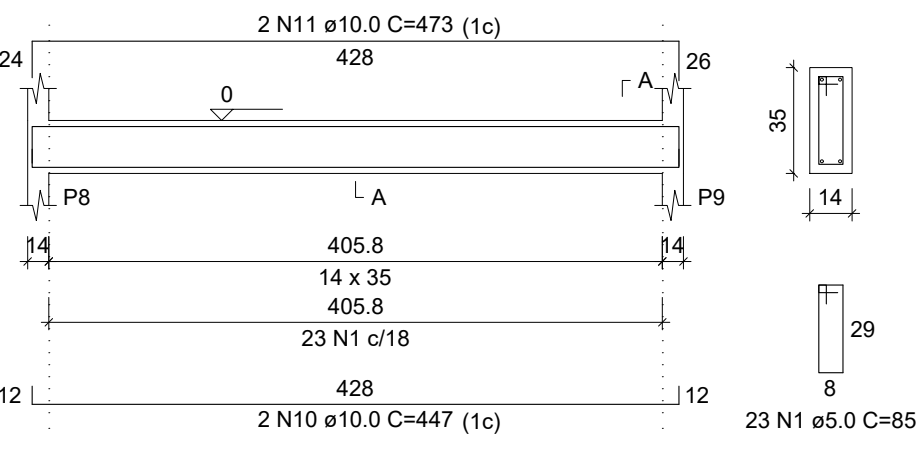
V4
ESC 1:50



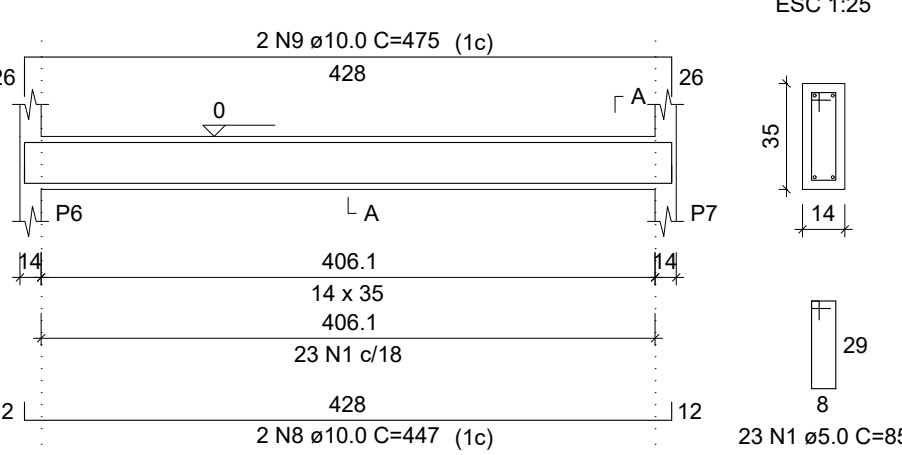
V11
ESC 1:50



V3
ESC 1:50



V2
ESC 1:50



RELAÇÃO DO AÇO

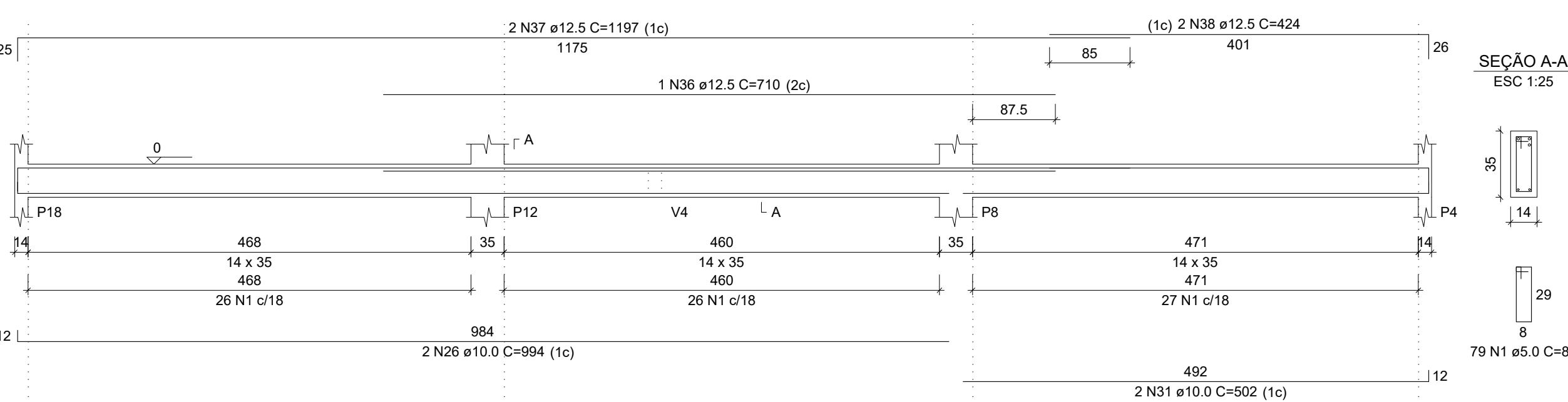
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	615	85	52275
CA50	2	6.3	4	107	428
	3	10.0	2	837	1674
	4	10.0	2	840	1680
	5	10.0	2	180	360
	6	10.0	4	1200	4800
	7	10.0	2	533	1066
	8	10.0	6	447	2682
	9	10.0	2	475	950
	10	10.0	2	447	894
	11	10.0	2	473	946
	12	10.0	1	270	270
	13	10.0	2	447	894
	14	10.0	2	459	918
	15	10.0	2	476	952
	16	10.0	2	486	972
	17	10.0	2	1102	2204
	18	10.0	2	664	1328
	19	10.0	1	190	190
	20	10.0	2	1198	2396
	21	10.0	2	589	1178
	22	10.0	2	987	1974
	23	10.0	2	499	998
	24	10.0	1	1114	1114
	25	10.0	2	392	784
	26	10.0	4	994	3976
	27	10.0	2	502	1004
	28	10.0	1	735	735
	29	10.0	2	1198	2396
	30	10.0	2	427	854
	31	10.0	2	502	1004
	32	10.0	2	185	370
	33	10.0	2	204	408
	34	10.0	2	984	1968
	35	10.0	2	502	1004
	36	12.5	3	710	2130
	37	12.5	2	1197	2394
	38	12.5	2	424	848
	39	12.5	2	1200	2400
	40	12.5	2	400	800

RESUMO DO AÇO

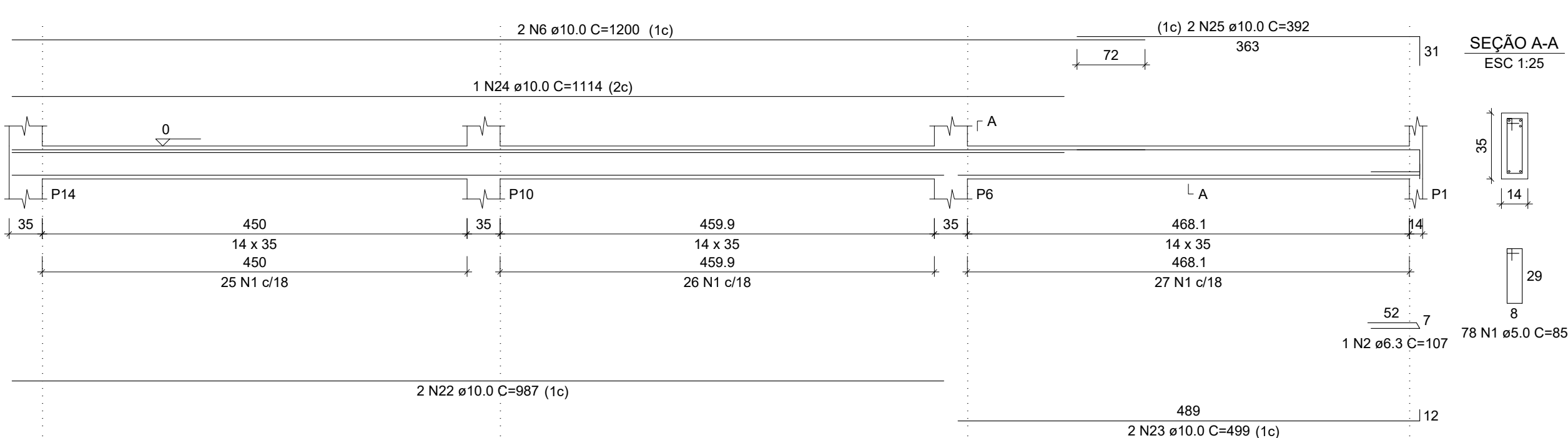
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	6.3	4.3	1	12 m	1.2
	10.0	449.4	42	12 m	304.8
	12.5	85.7	8	12 m	80.8
CA60	5.0	522.8	-	rolo (170 kg)	88.6
PESO TOTAL (kg)					
CA50		396.8			
CA60		88.6			

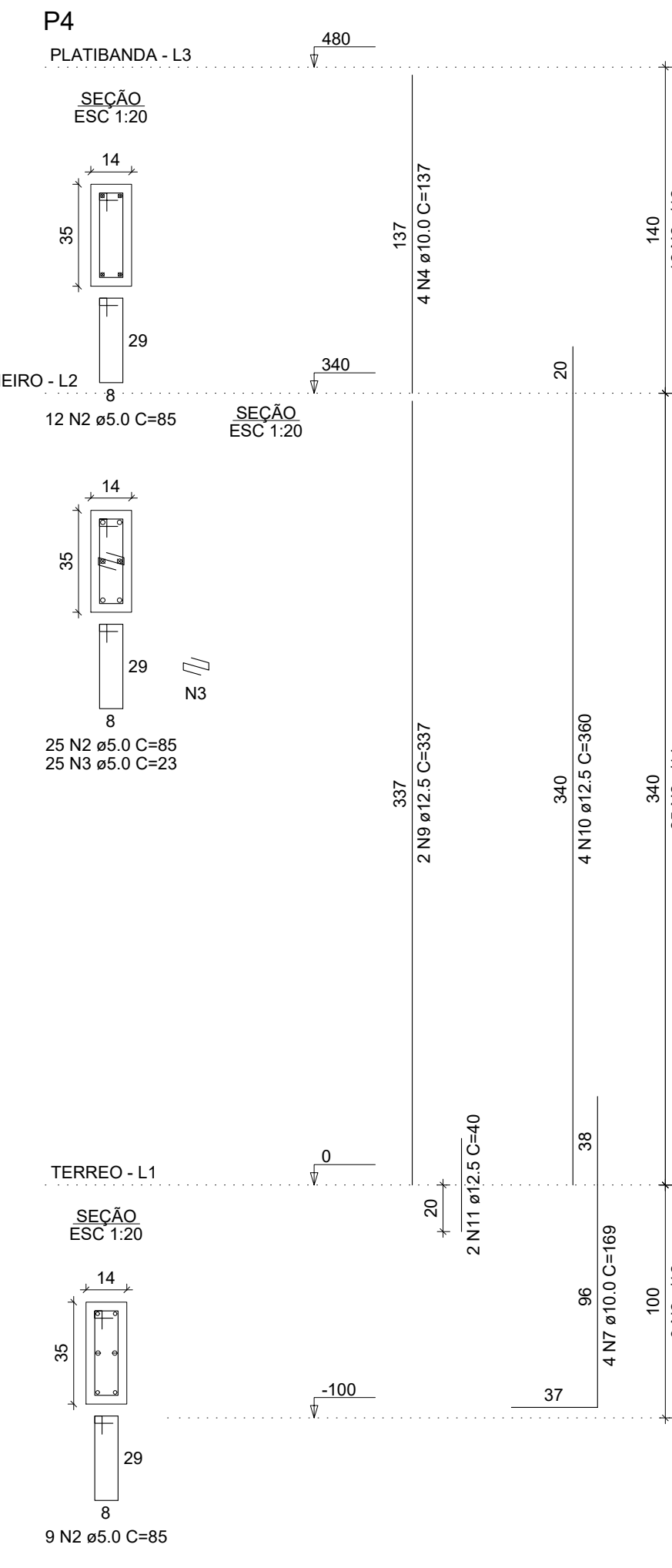
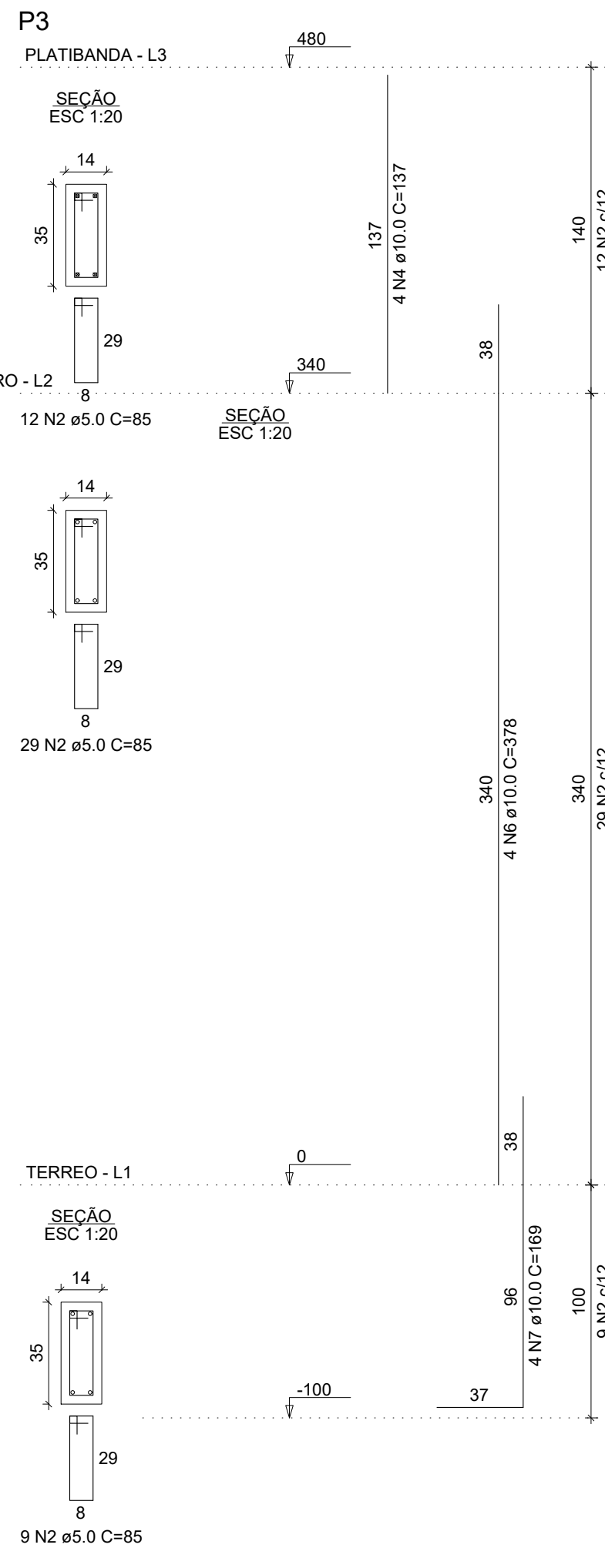
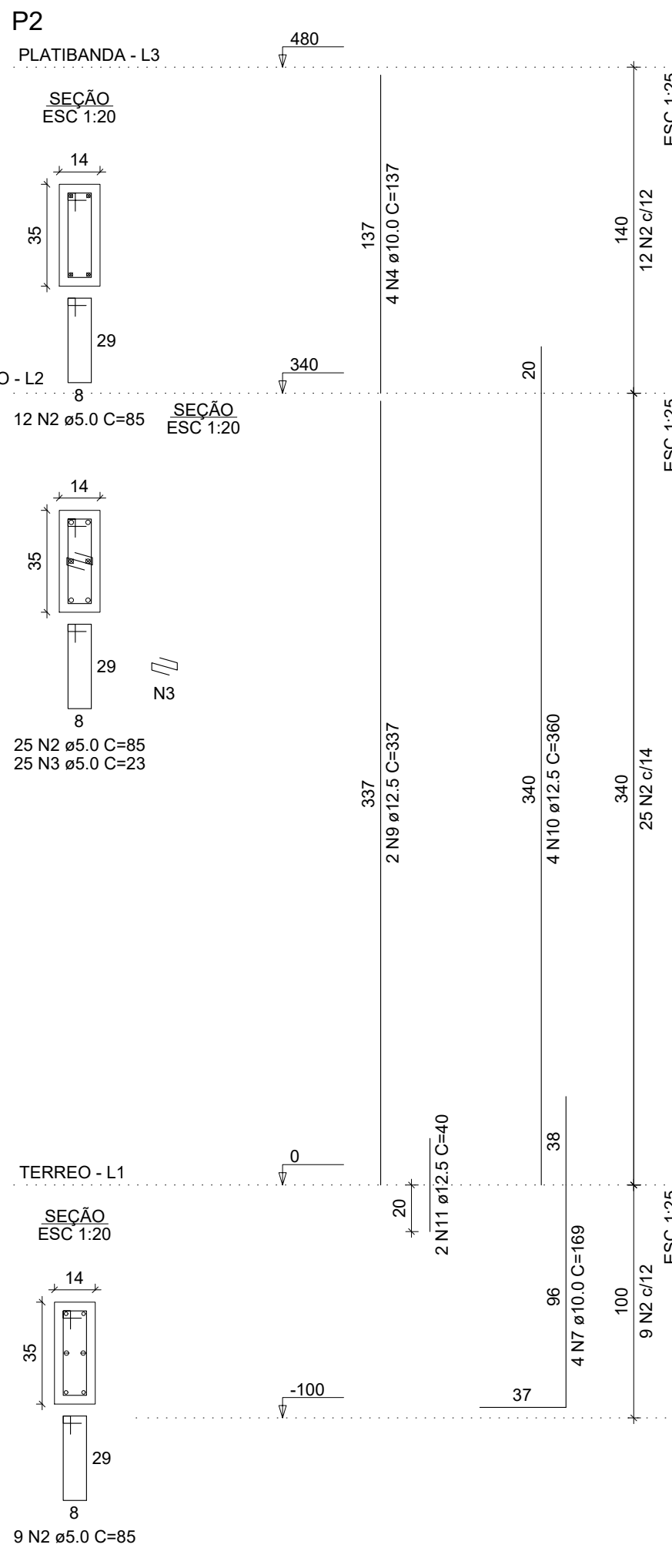
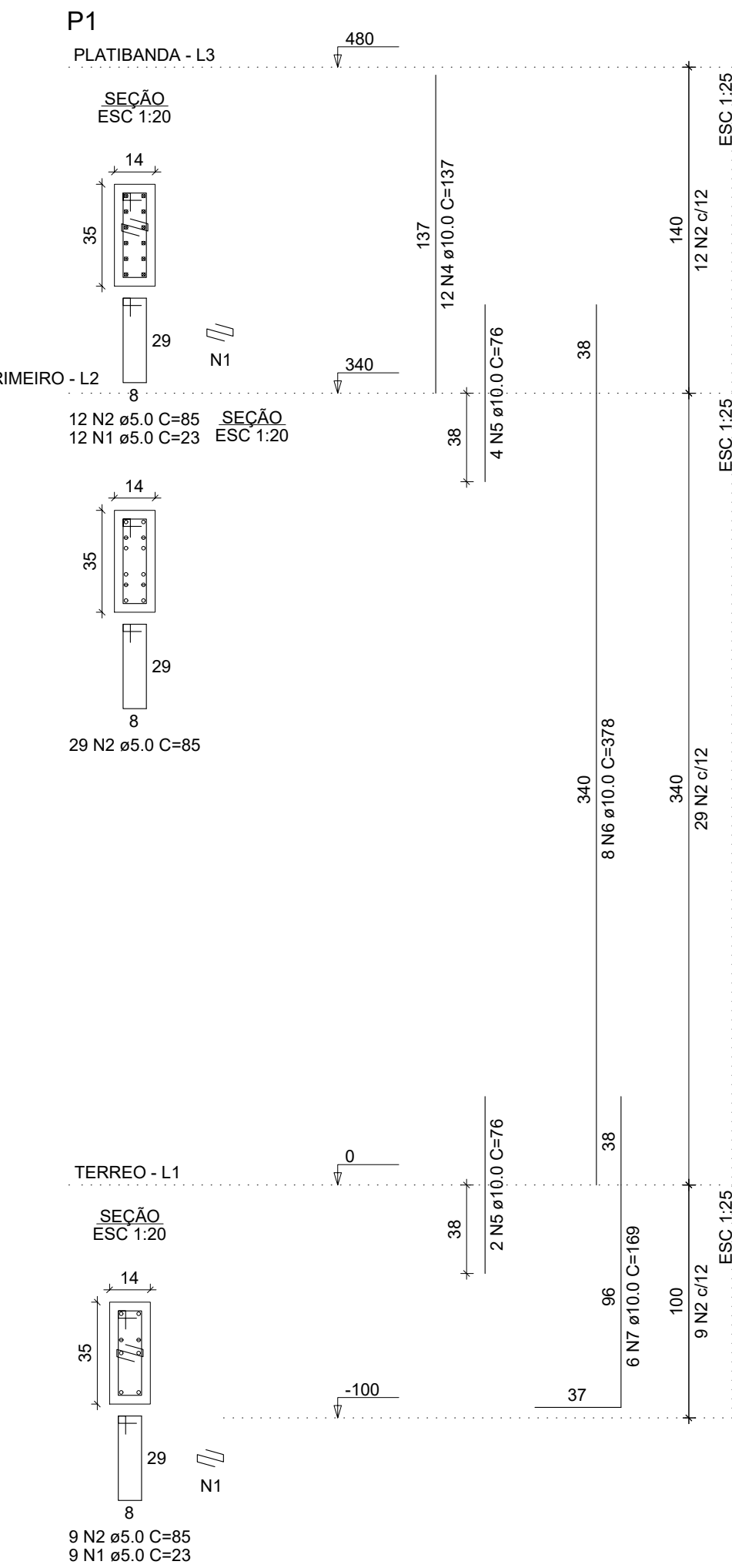
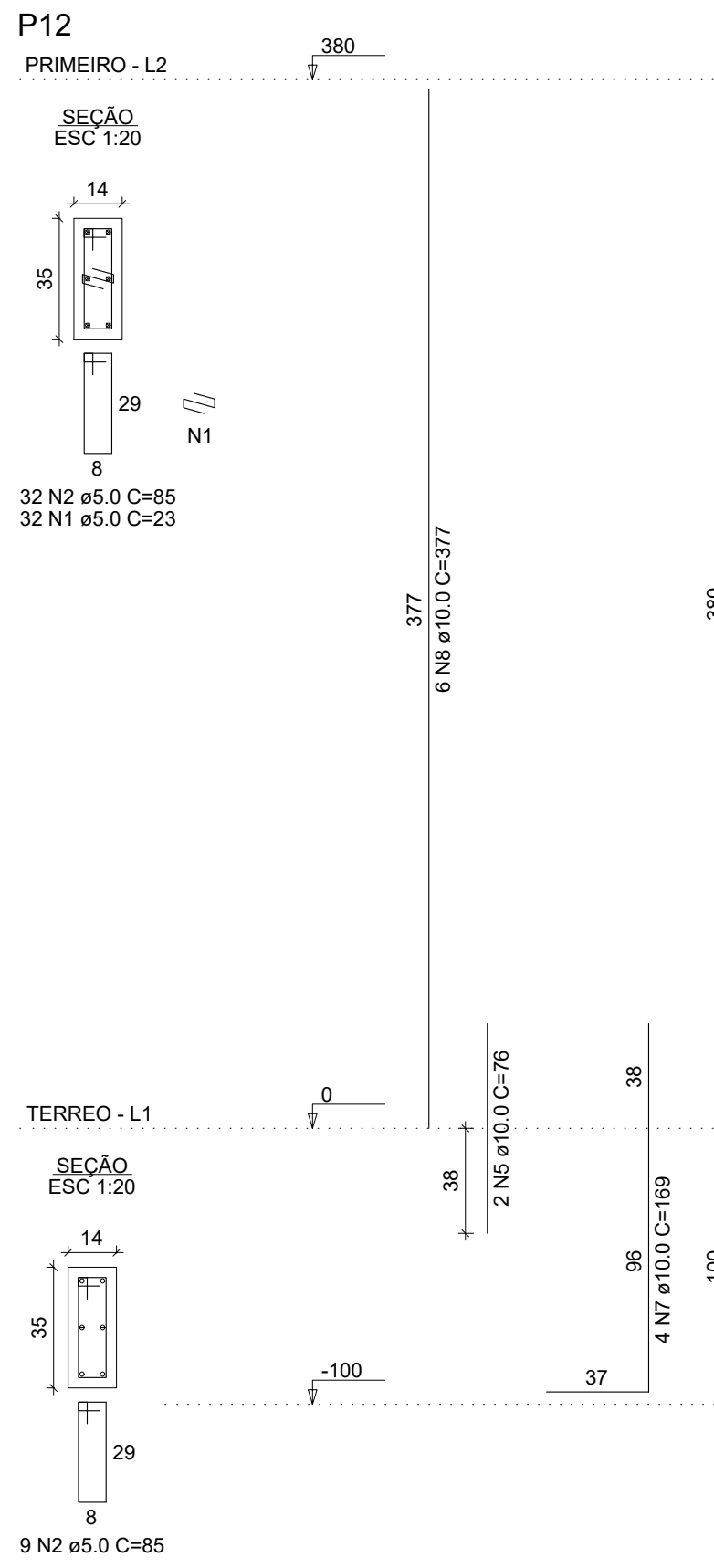
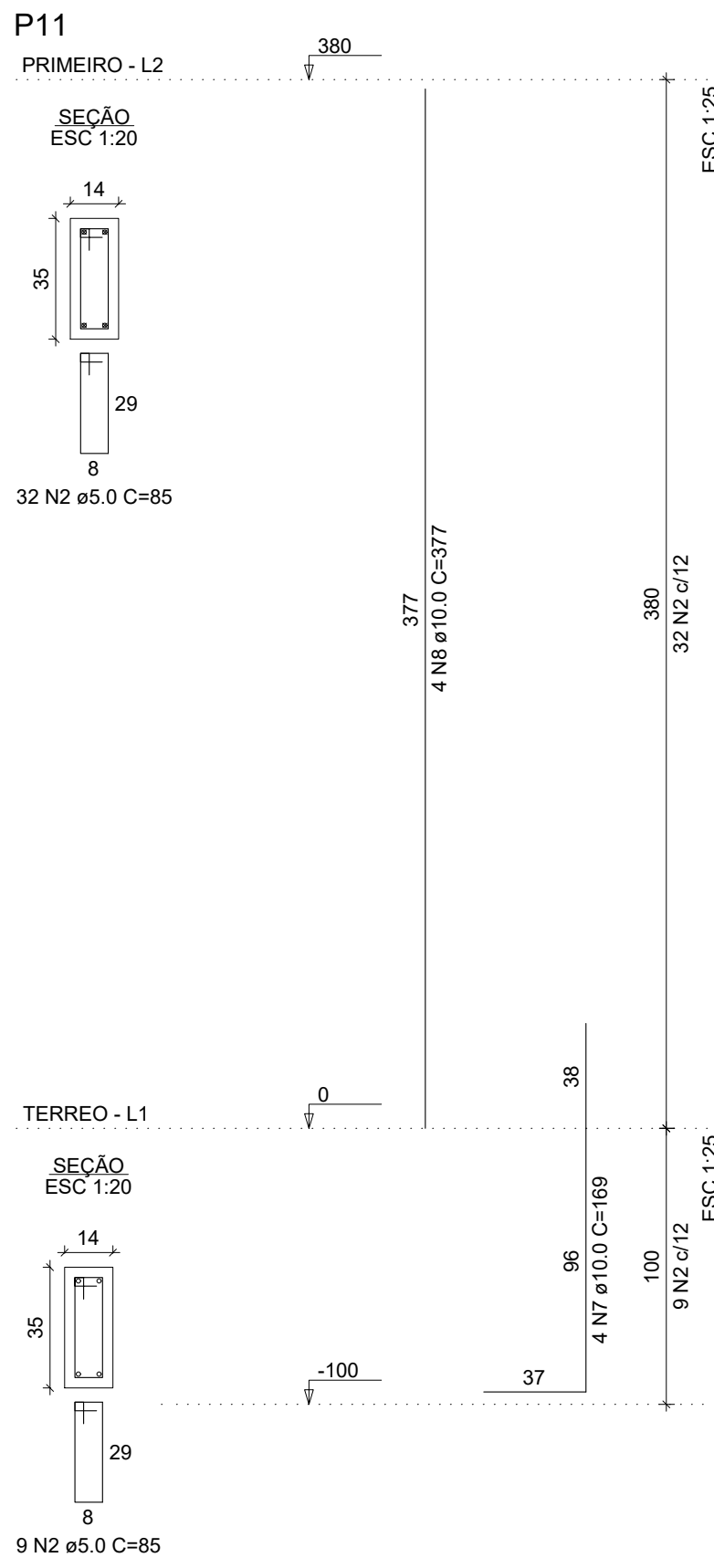
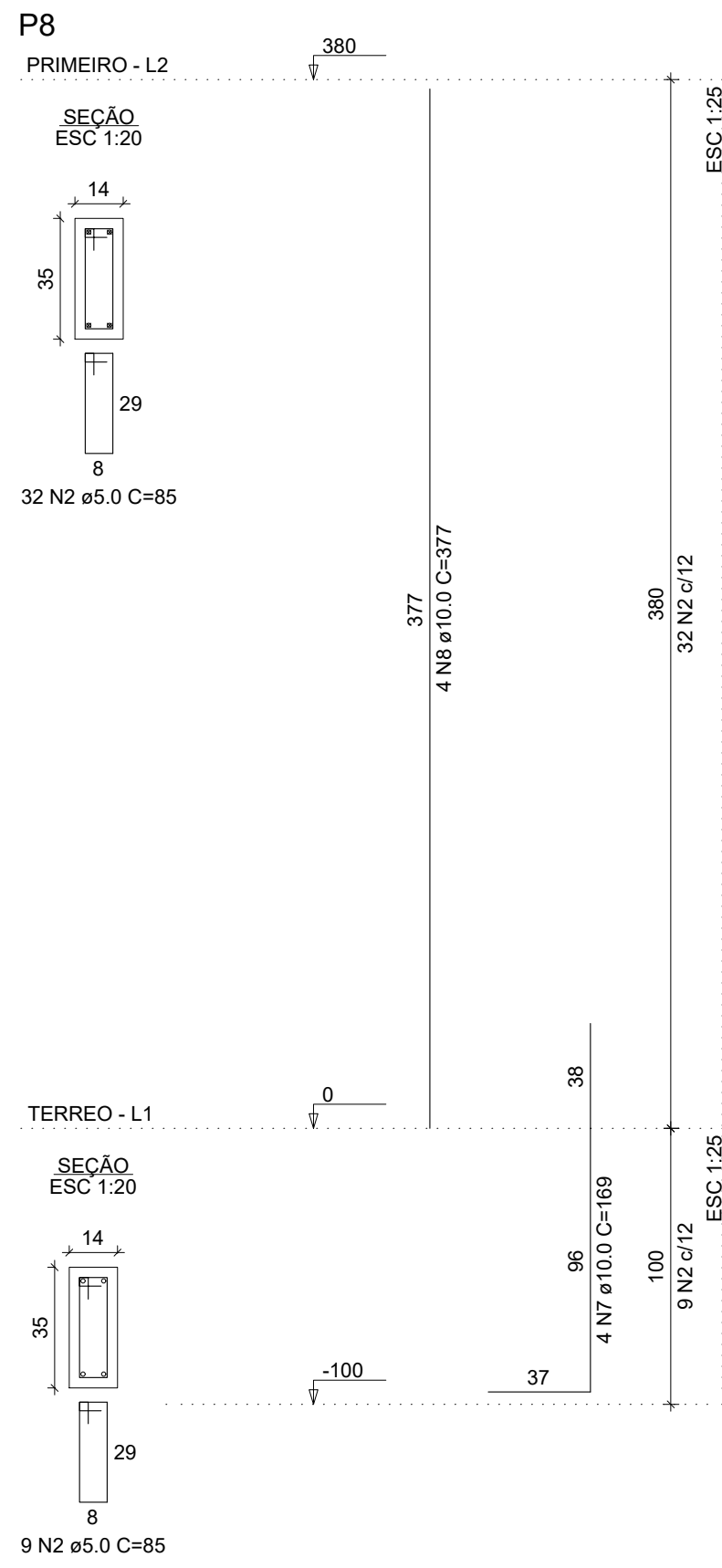
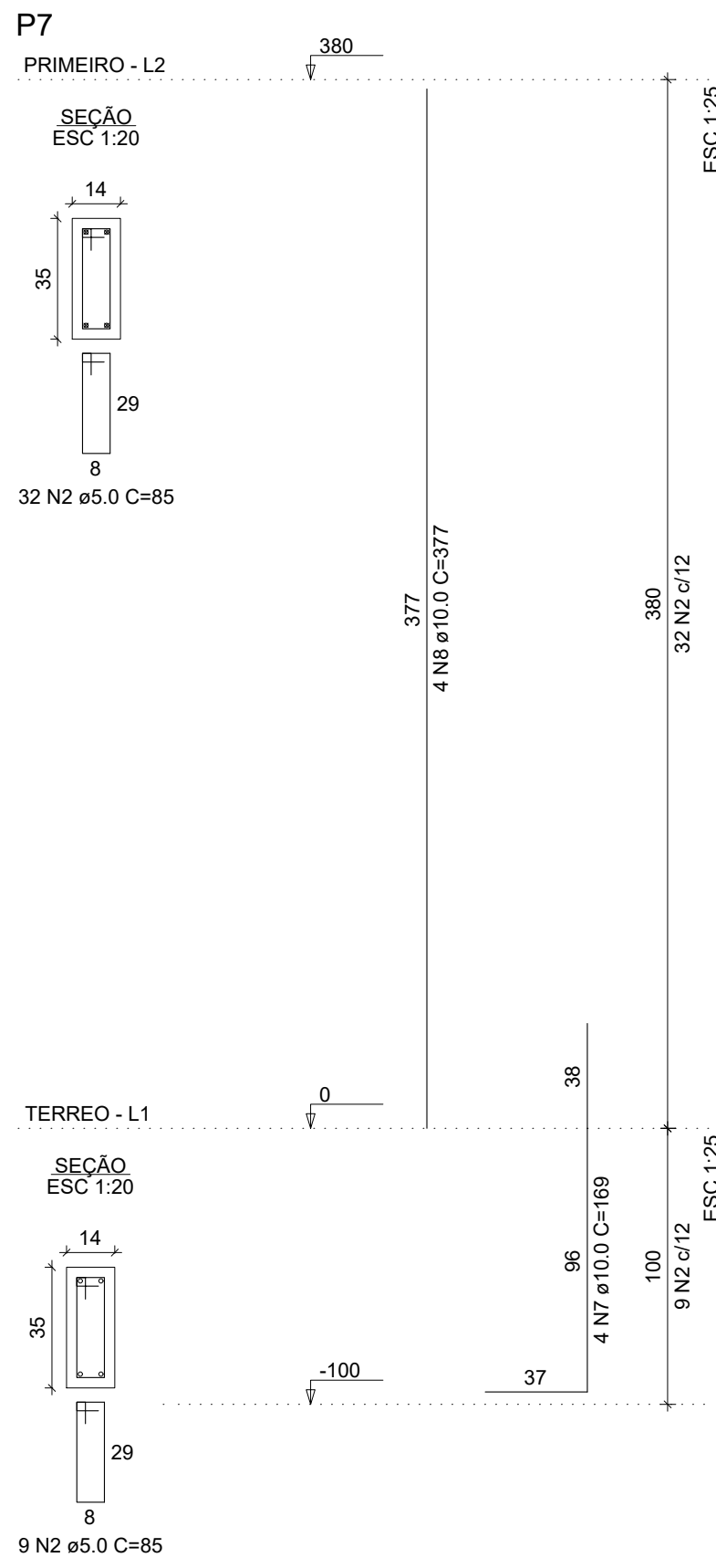
Volume de concreto (C-25) = 5.73 m³
Área de forma = 98.31 m²

V10
ESC 1:50



V8
ESC 1:50





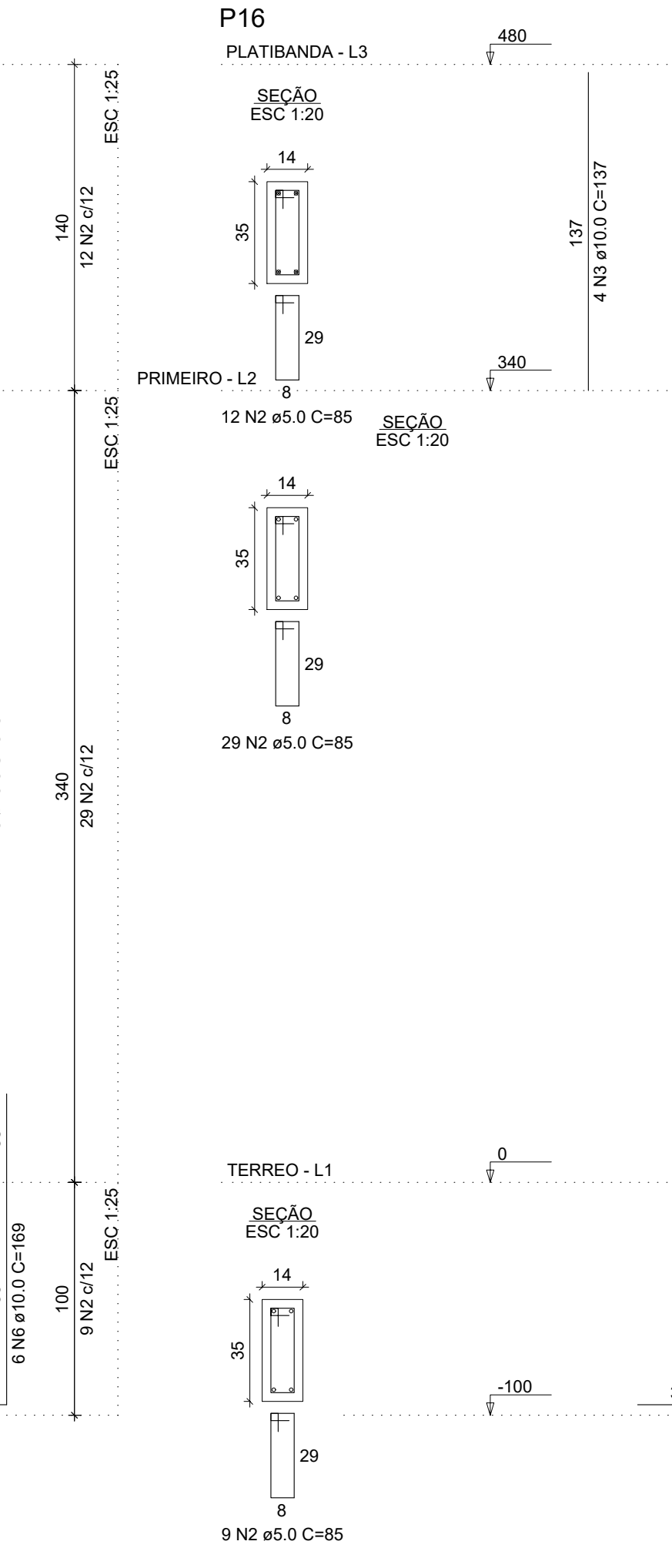
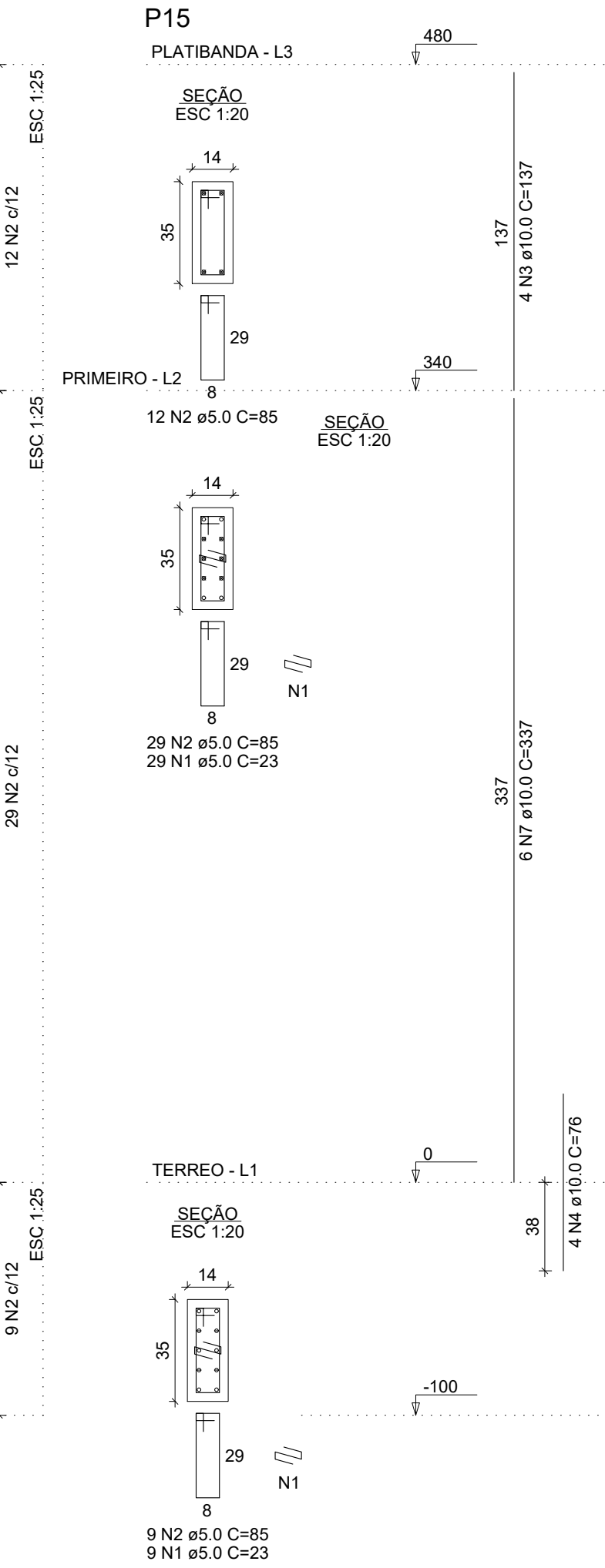
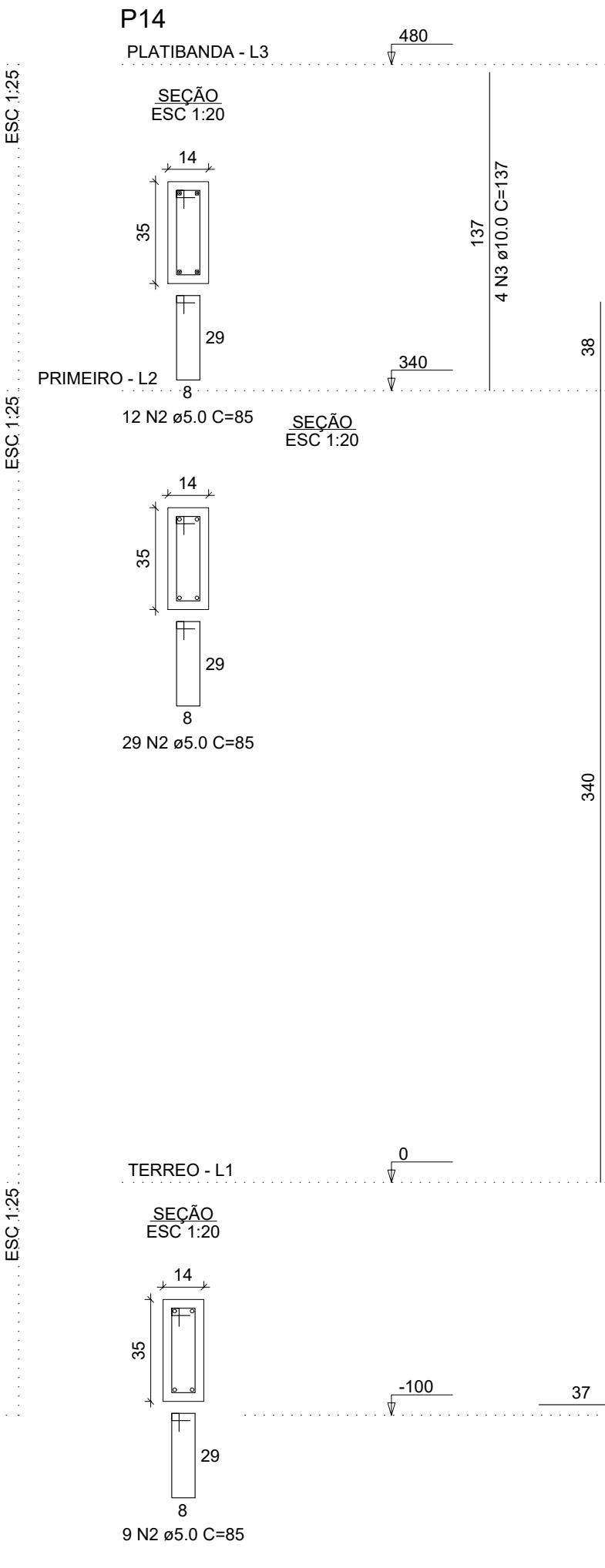
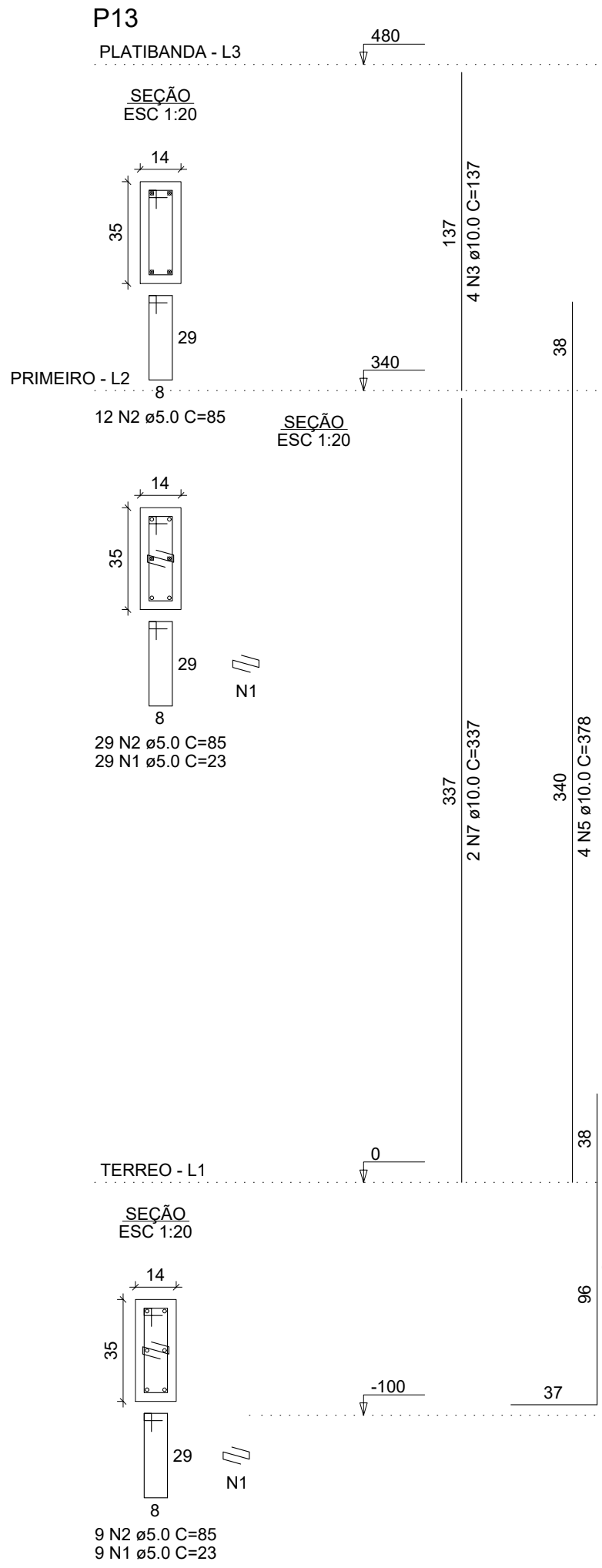
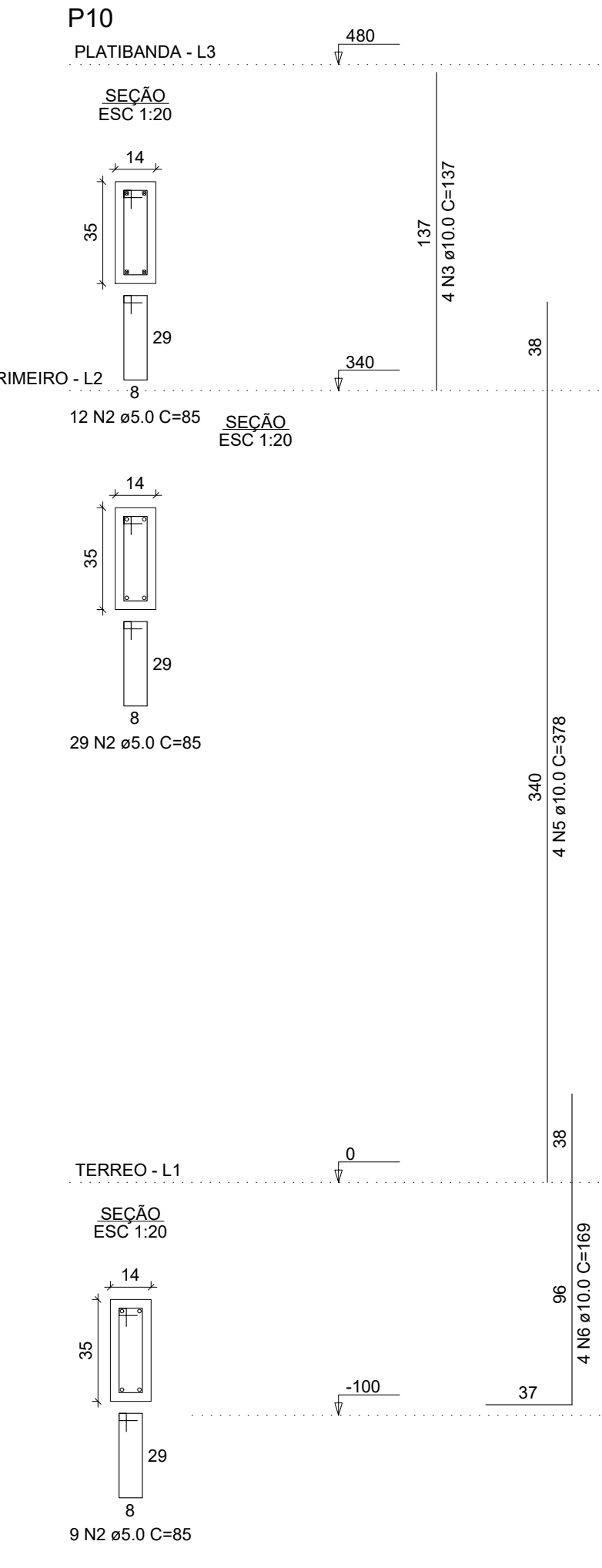
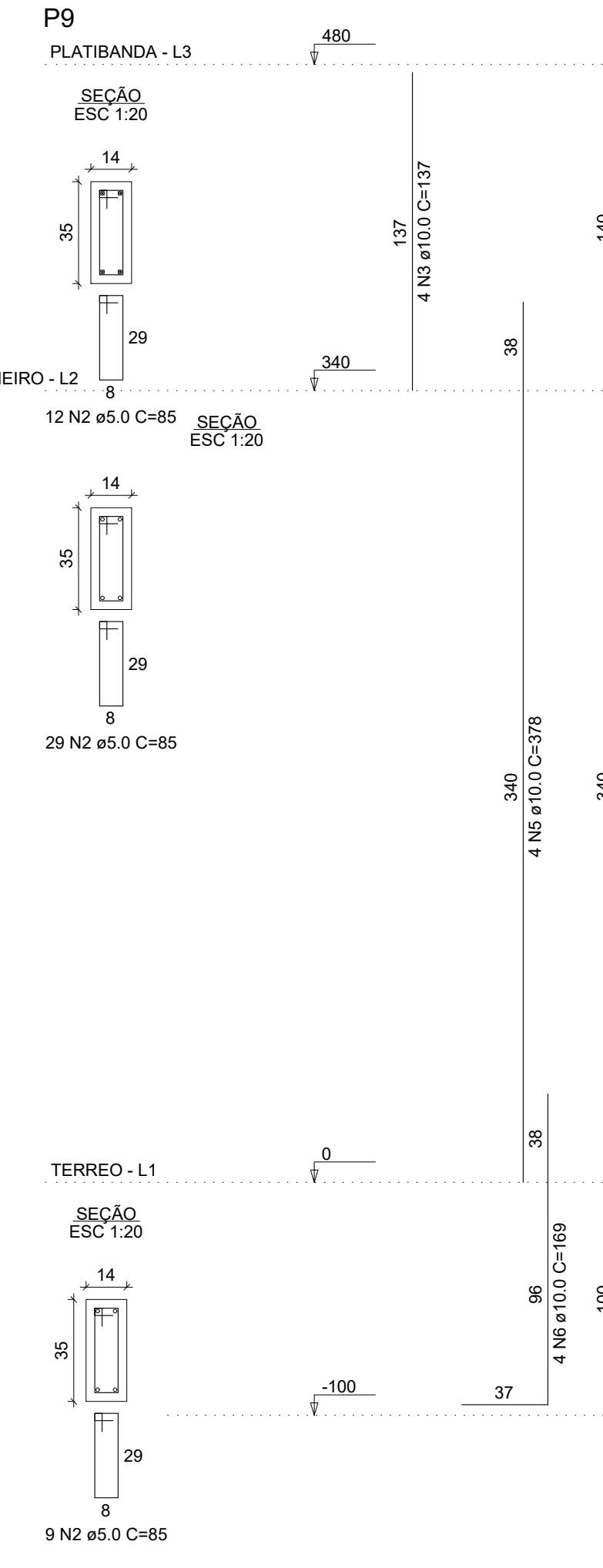
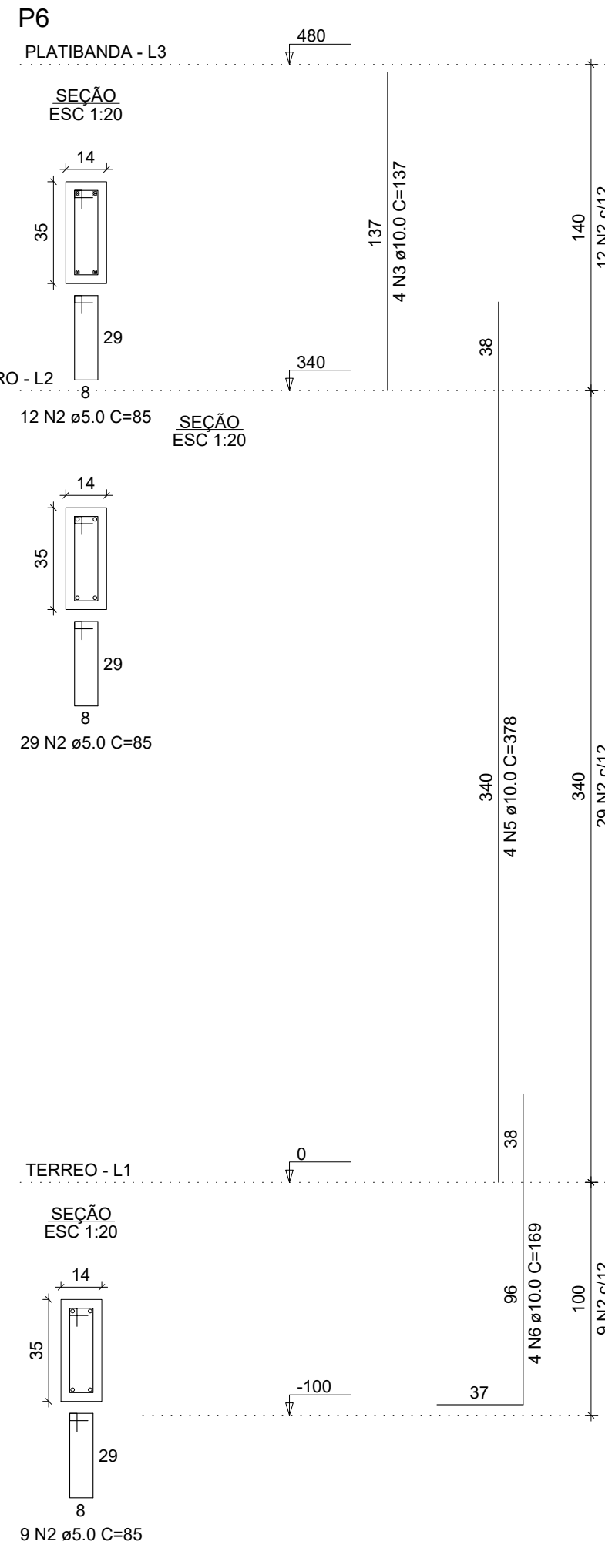
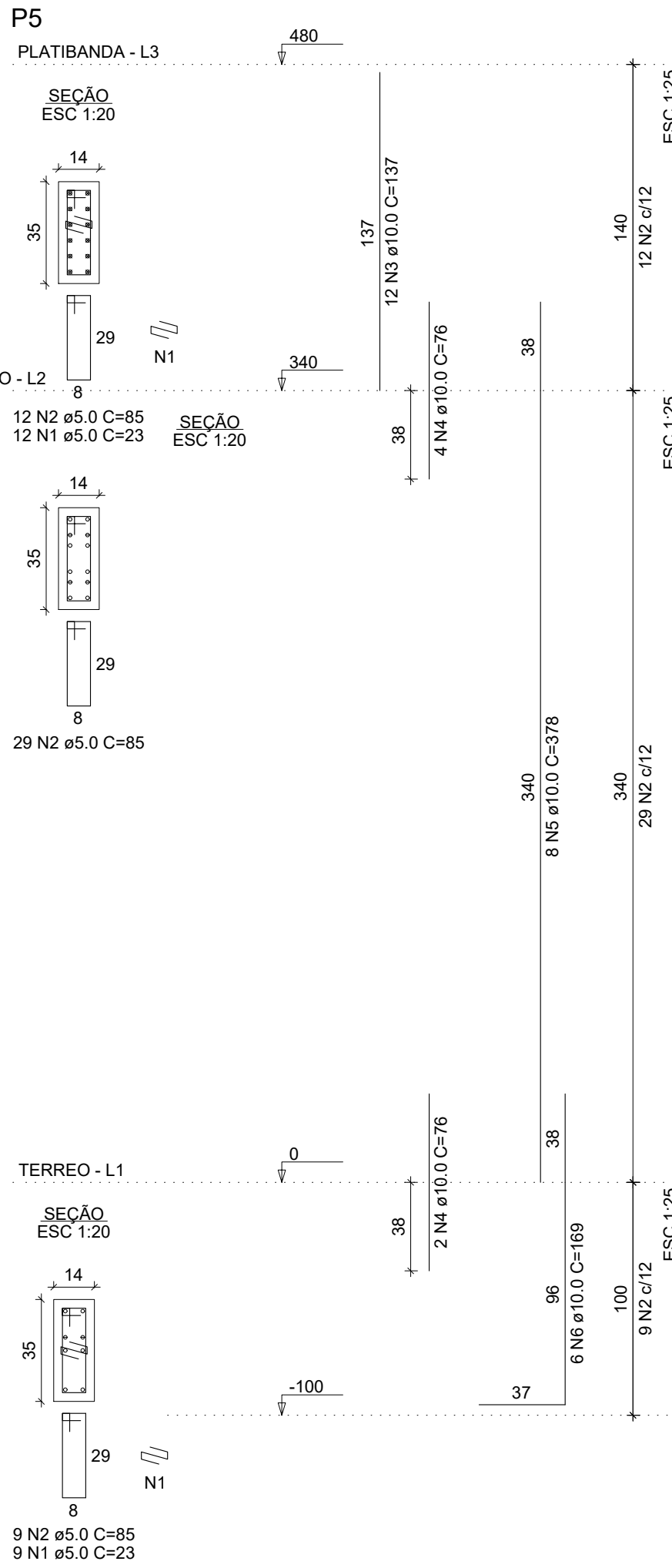
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	53	23	1219
	2	5.0	356	85	30280
	3	5.0	50	23	1150
	4	10.0	24	137	3288
	6	10.0	12	378	4536
	7	10.0	34	189	6422
	8	10.0	18	377	6786
	9	12.5	4	337	1348
	10	12.5	8	360	2880
	11	12.5	4	40	160

ACO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	10.0	209.6	20	12 m	142.2
CA60	12.5	43.9	5	12 m	48.5
PESO TOTAL (kg)		326.3			
CA50		188.7			
CA60		55.3			

Volume de concreto (C=25) = 2.08 m³

Área de forma = 41.55 m²



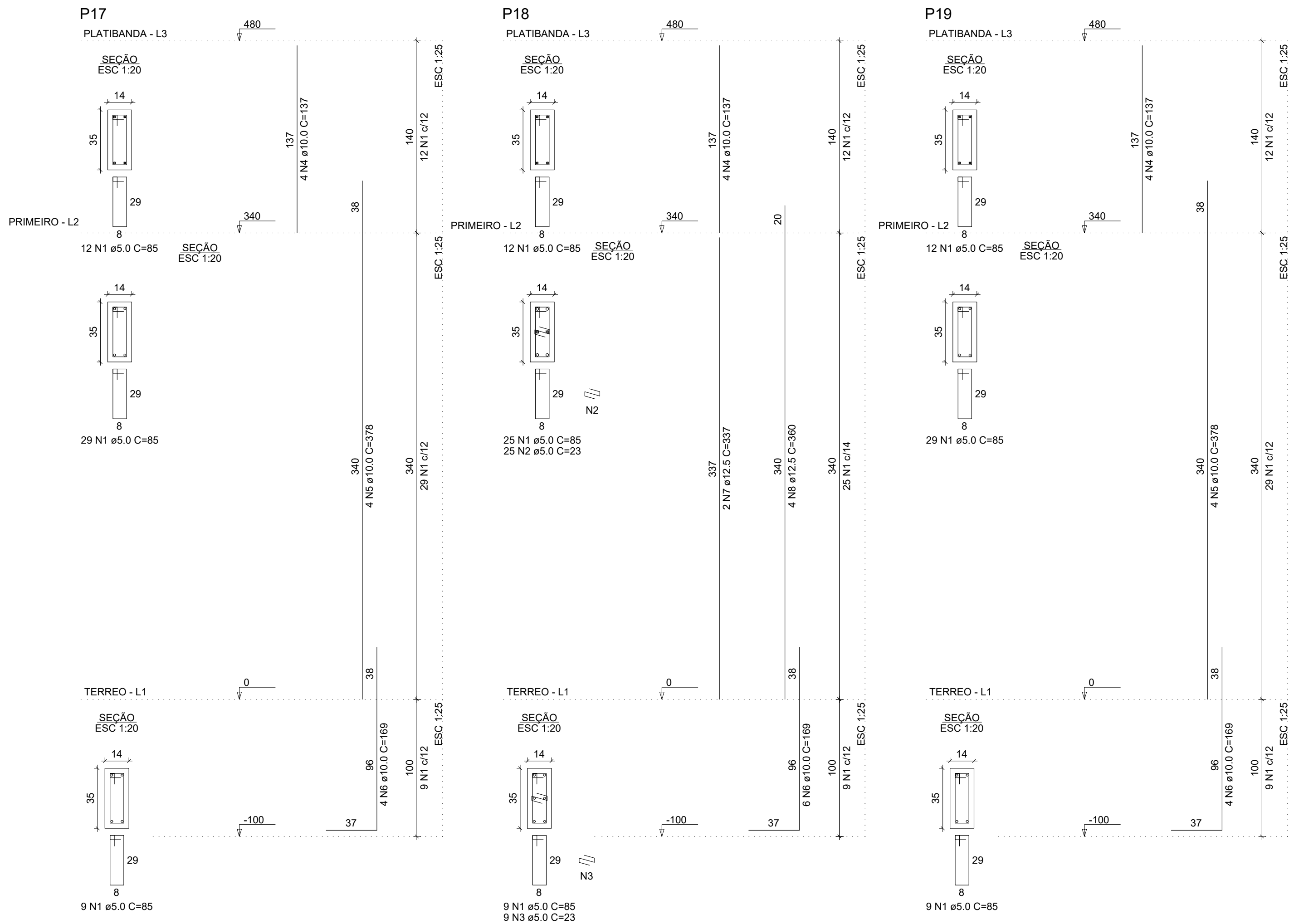
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	97	23	2231
	2	5.0	400	85	34000
	3	10.0	40	137	5480
	4	10.0	10	76	760
	6	10.0	38	378	13608
	7	10.0	189	642	12138
	8	10.0	337	360	12132

ACO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	10.0	289.7	27	12 m	196.4
CA60	5.0	362.3	-	rolo (170 kg)	61.4
PESO TOTAL (kg)					
CA50		196.4			
CA60		61.4			

Volume de concreto (C=25) = 2.27 m³

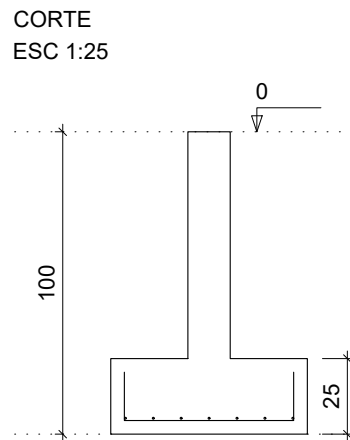
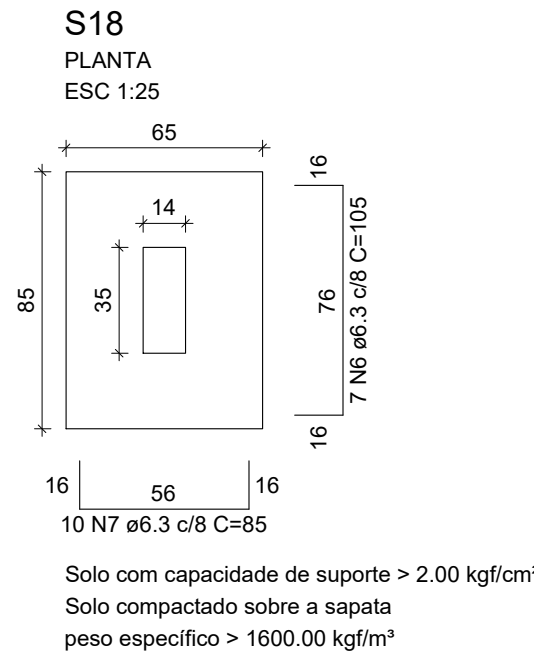
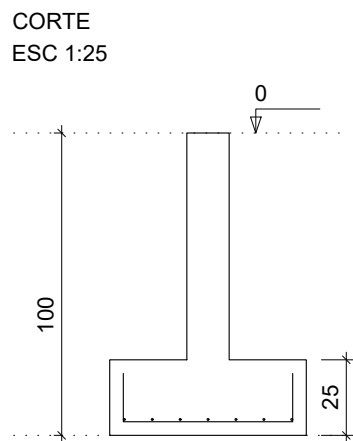
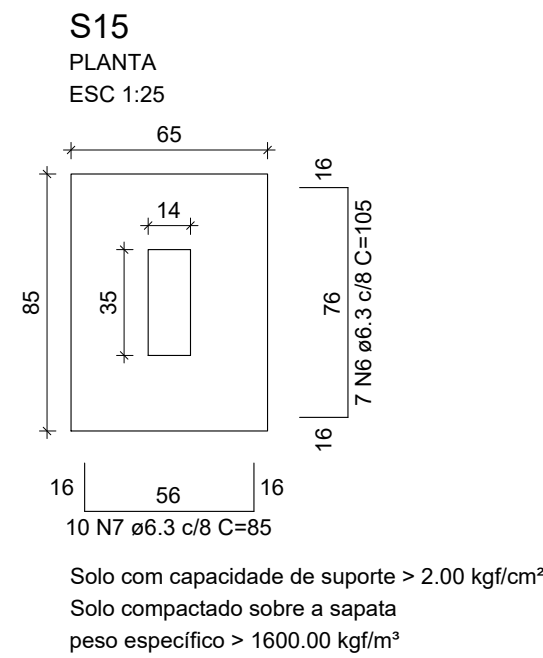
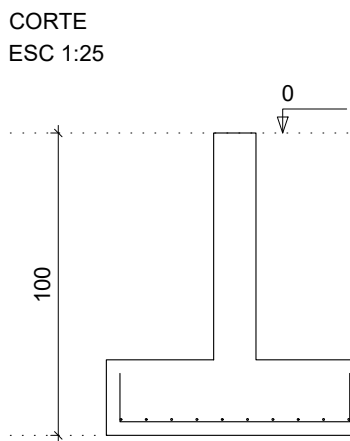
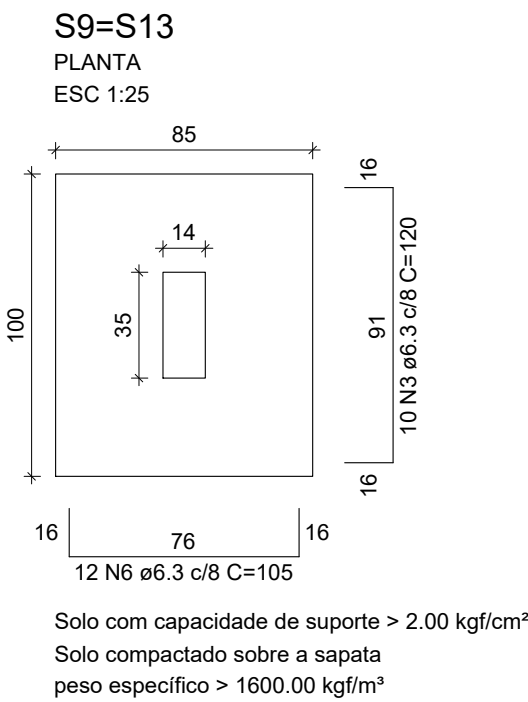
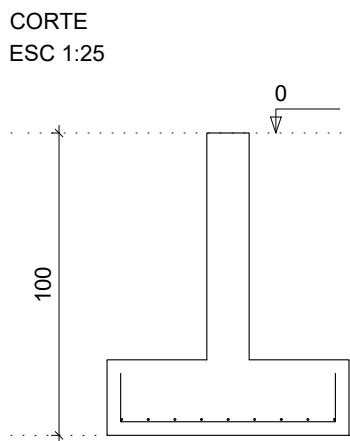
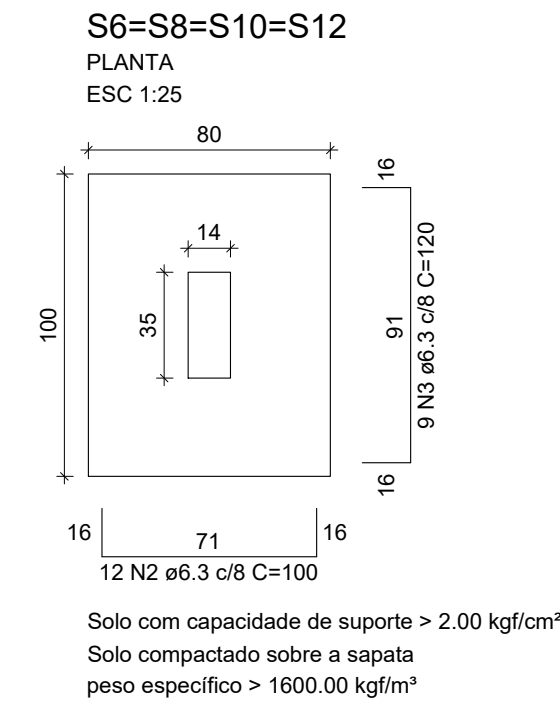
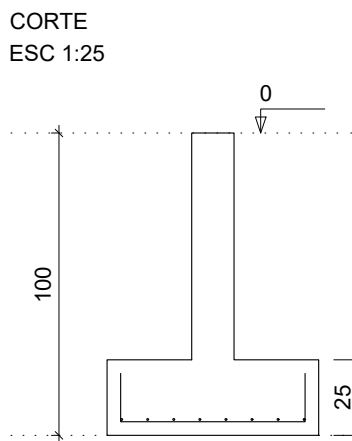
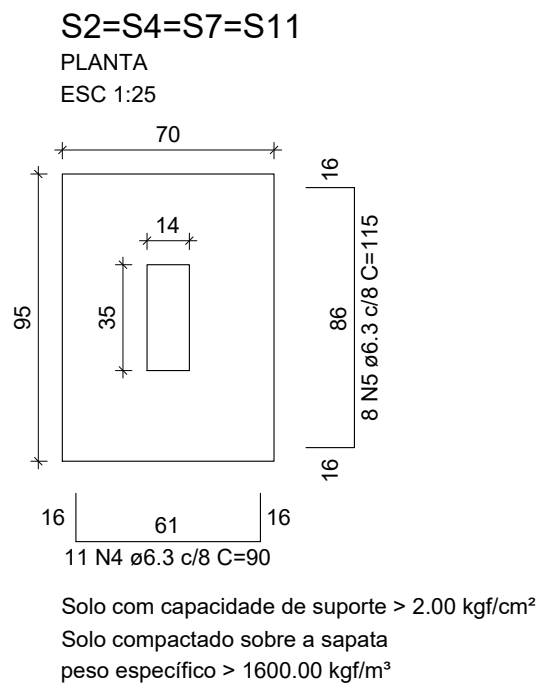
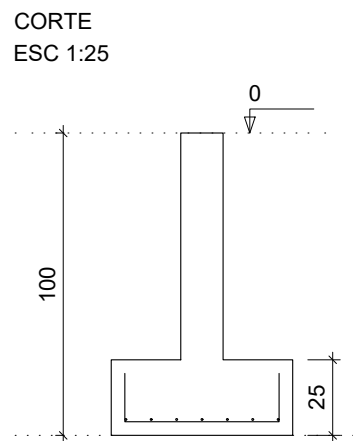
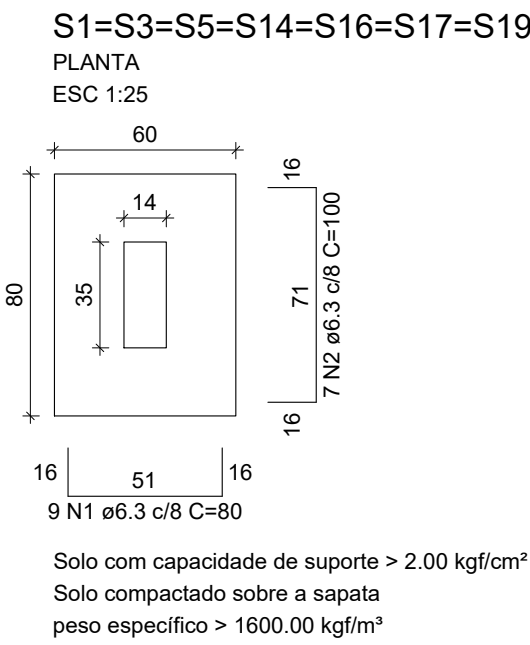
Área de forma = 45.47 m²



RELAÇÃO DO AÇO				
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)
CA60	1	5.0	146	85
	2	5.0	25	23
	3	5.0	9	23
CA50	4	10.0	12	137
	5	10.0	8	378
	6	10.0	14	169
	7	12.5	2	337
	8	12.5	4	360

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT
CA50	10.0	70.3	7	12 m
CA60	12.5	21.1	2	12 m
	5.0	131.9	-	rolo (170 kg)
PESO TOTAL (kg)				
CA50	70.1			
CA60	22.4			

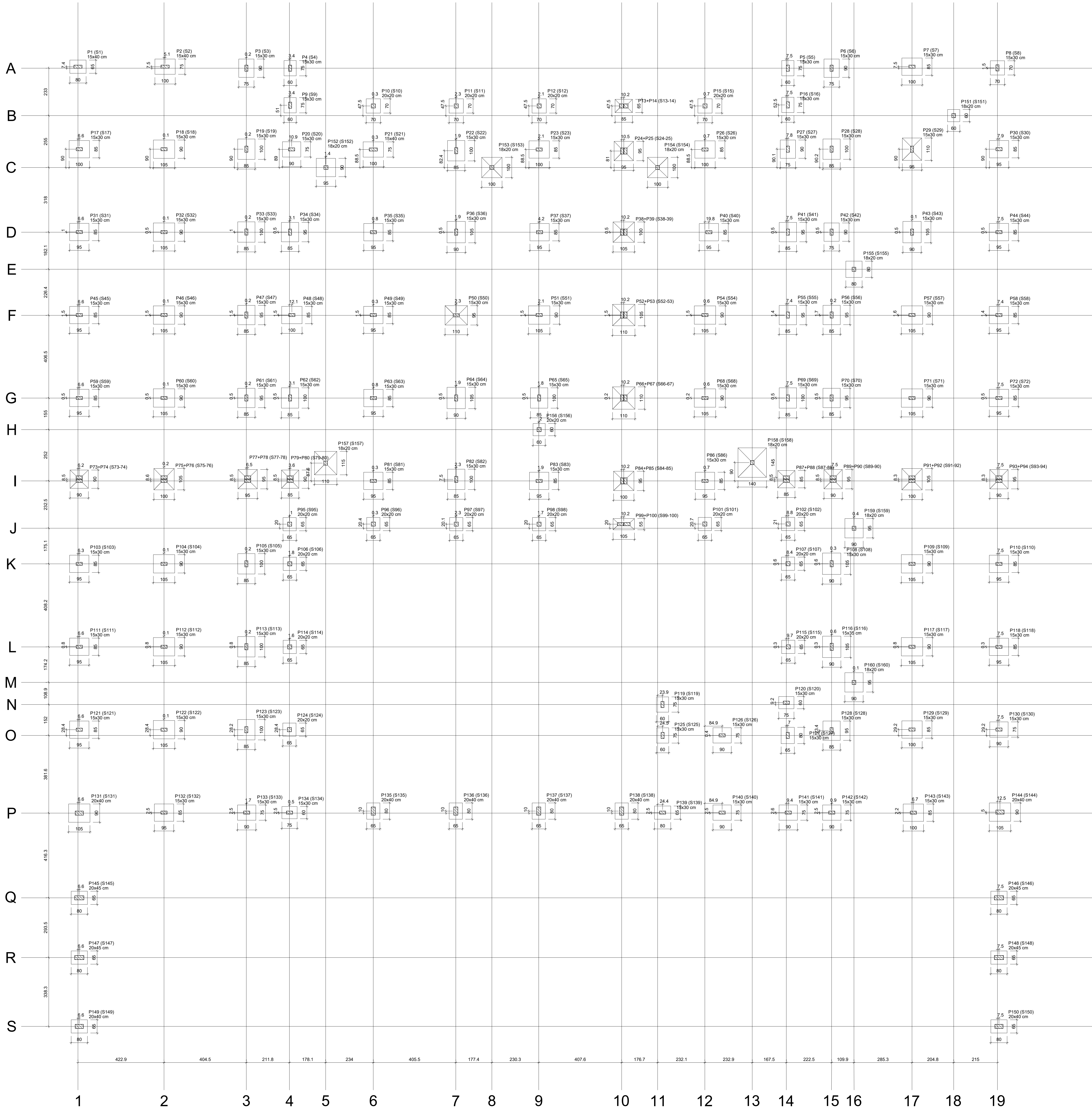
Volume de concreto (C-25) = 0.85 m³
Área de forma = 17.05 m²



RELAÇÃO DO AÇO				
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)
CA50	1	6.3	63	80
	2	6.3	97	100
	3	6.3	56	120
	4	6.3	44	90
	5	6.3	32	115
	6	6.3	38	105
	7	6.3	20	85

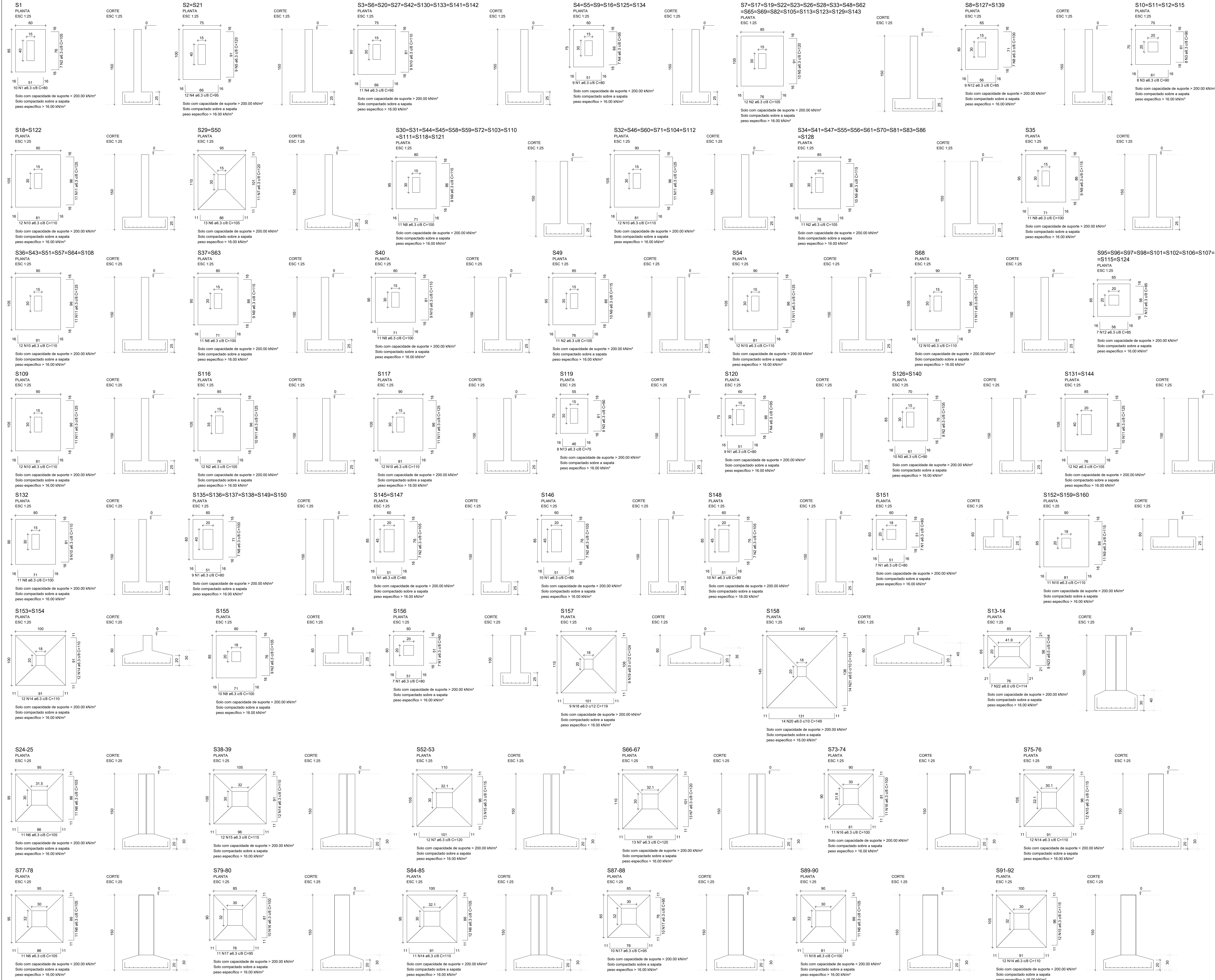
RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT
CA50	6.3	347.9	32	12 m
PESO TOTAL (kg)				
CA50	93.6			

Volume de concreto (C-25) = 3.01 m³
Área de forma = 15.15 m²



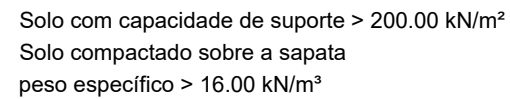
Pilar		Fundação				
Nome	Seglo	Nome	Lado B	Lado H	h0 / h1	h1 / h2
P1	15x30	S1	85	80	25	25
P2	15x30	S2	75	100	25	25
P3	15x30	S3	75	90	25	25
P4	15x30	S4	60	75	25	25
P5	15x30	S5	60	75	25	25
P6	15x30	S6	75	80	25	25
P7	15x30	S7	65	100	25	25
P8	15x30	S8	70	70	25	25
P9	15x30	S9	60	75	25	25
P10	20x20	S10	70	70	25	25
P11	20x20	S11	70	70	25	25
P12	20x20	S12	70	70	25	25
P13	20x20	S13	70	70	25	25
P14	20x20	S14	70	70	25	25
P15	20x20	S15	70	70	25	25
P16	15x30	S16	65	75	25	25
P17	15x30	S17	85	100	25	25
P18	15x30	S18	90	105	25	25
P19	15x30	S19	85	100	25	25
P20	15x30	S20	75	90	25	25
P21	15x30	S21	75	100	25	25
P22	15x30	S22	85	100	25	25
P23	15x30	S23	85	100	25	25
P24	15x30	S24	85	100	25	25
P25	15x30	S25	85	100	25	25
P26	15x30	S26	85	100	25	25
P27	15x30	S27	75	90	25	25
P28	15x30	S28	85	100	25	25
P29	15x30	S29	85	100	25	25
P30	15x30	S30	85	100	25	25
P31	15x30	S31	85	100	25	25
P32	15x30	S32	85	100	25	25
P33	15x30	S33	85	100	25	25
P34	15x30	S34	85	100	25	25
P35	15x30	S35	85	100	25	25
P36	15x30	S36	85	100	25	25
P37	15x30	S37	85	100	25	25
P38	15x30	S38	85	100	25	25
P39	15x30	S39	85	100	25	25
P40	15x30	S40	85	100	25	25
P41	15x30	S41	85	100	25	25
P42	15x30	S42	85	100	25	25
P43	15x30	S43	85	100	25	25
P44	15x30	S44	85	100	25	25
P45	15x30	S45	85	100	25	25
P46	15x30	S46	85	100	25	25
P47	15x30	S47	85	100	25	25
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P49	15x30	S49	85	100	25	25
P50	15x30	S50	85	100	25	25
P51	15x30	S51	85	100	25	25
P52	15x30	S52	85	100	25	25
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P79	15x30	S79	85	100	25	25
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P81	15x30	S81	85	100	25	25
P82	15x30	S82	85	100	25	25
P83	15x30	S83	85	100	25	25
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P85	15x30	S85	85	100	25	25
P86	15x30	S86	85	100	25	25
P87	15x30	S87	85	100	25	25
P88	15x30	S88	85	100	25	25
P89	15x30	S89	85	100	25	25
P90	15x30	S90	85	100	25	25
P91	15x30	S91	85	100	25	25
P92	15x30	S92	85	100	25	25
P93	15x30	S93	85	100	25	25
P94	15x30	S94	85	100	25	25
P95	15x30	S95	85	100	25	25
P96	15x30	S96	85	100	25	25
P97	15x30	S97	85	100	25	25
P98	15x30	S98	85	100	25	25
P99	15x30	S99	85	100	25	25
P100	15x30	S100	85	100	25	25

Planta de locação
escala 1:75



RELAÇÃO DO AÇO						
ACO	N	DIAM (mm)	QUANT (cm)	UNIT (cm)	C.TOTAL (cm)	
CA50	1	6.3	195	89	15600	
	2	6.3	444	105	46620	
	3	6.3	82	80	8160	
	4	6.3	172	80	16340	
	5	6.3	198	120	23760	
	6	6.3	80	100	9760	
	7	6.3	260	100	26000	
	8	6.3	288	115	33120	
	9	6.3	228	125	28500	
	10	6.3	348	110	38280	
	11	6.3	228	110	25080	
	12	6.3	181	85	15380	
	13	6.3	8	75	600	
	14	6.3	49	115	5635	
	15	6.3	43	100	4300	
	16	6.3	43	100	4300	
	17	6.3	11	85	935	
	18	6.3	9	110	990	
	19	8.0	9	124	1116	
	20	8.0	14	168	2352	
	21	8.0	17	114	1938	
	22	8.0	7	94	868	
	23	8.0	9	94	868	
RESUMO DO AÇO						
ACO	DIAM (mm)	C.TOTAL (m)	PESO = 0% (kg)			
CA50	6.3	222	7.18			
	8.0	80.7	31.9			
PESO TOTAL (kg)						
CA50		747.9				
Volume de concreto (C-25) = 26.78 m³						
Área de forma = 119.02 m²						

PLANTA
ESC 1:25



Technical drawing of a T-shaped profile. The vertical stem has a height of 150. The horizontal base has a total width of 30 and a height of 20. A dimension line on the right indicates the base height is 20. A dimension line at the bottom indicates the total width is 30. A dimension line on the left indicates the total height is 150. A small arrow points to the top of the stem, labeled '0'.

Technical drawing of a rectangular box. The top view shows a rectangle with overall dimensions 105 (width) and 55 (height). The inner rectangle has dimensions 62.1 (width) and 15 (height). The side view shows a rectangle with overall dimensions 96 (width) and 36 (height). The material specification is 10 N4 ø12.5 c/10 C=112.

Technical drawing of a mechanical part, likely a bracket or support. The drawing shows a side view with the following dimensions:

- Overall height: 150
- Width of the base: 45
- Width of the top section: 55

The part features a central vertical slot and a horizontal slot at the base. A dimension line labeled '0' is shown at the top right, indicating a reference point.

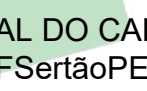
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	11	100	1100
	2	6.3	11	105	1155
	3	12.5	6	162	972
	4	12.5	10	112	1120

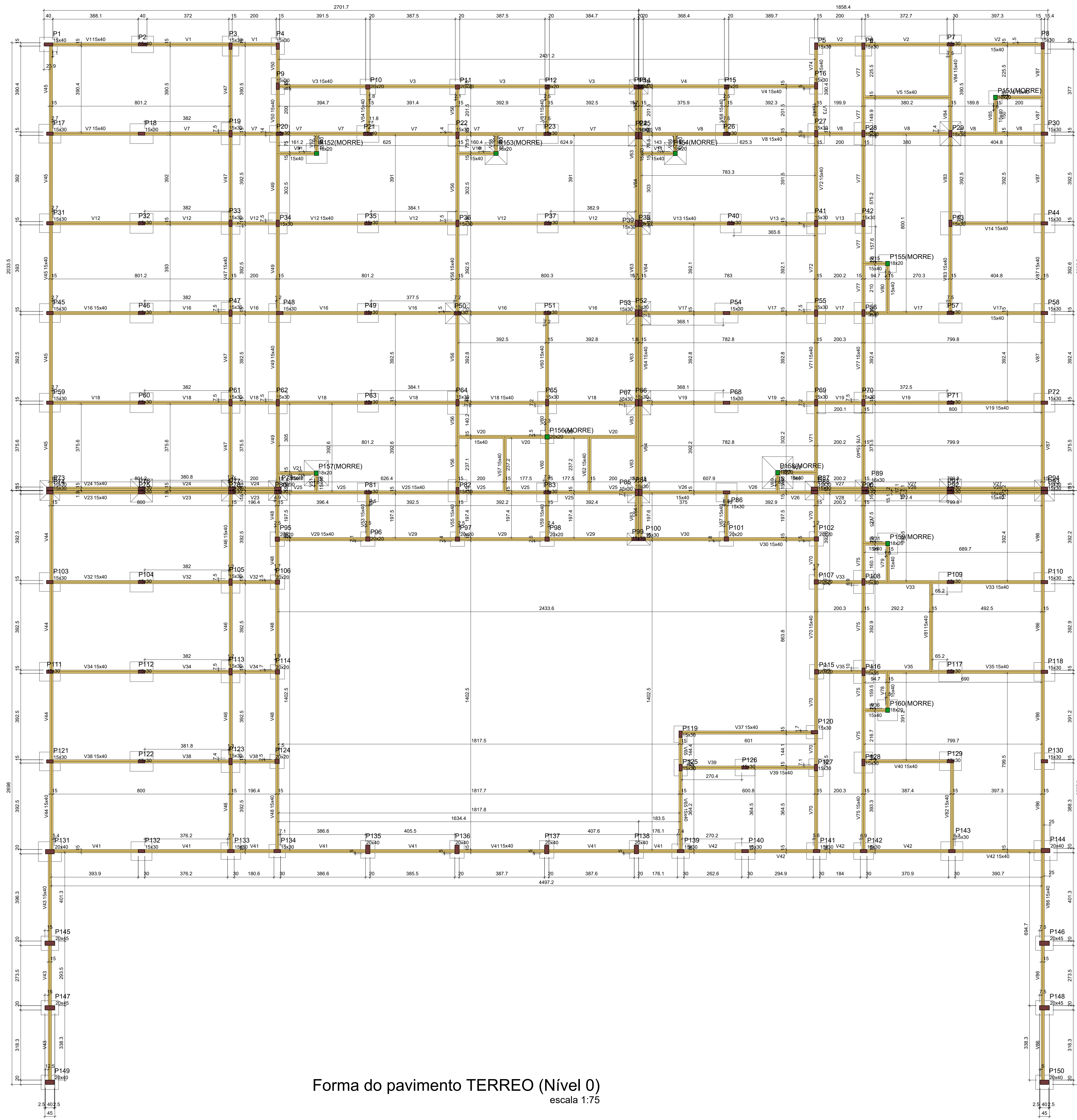
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3 12.5	22.6 20.9	5.5 20.2
PESO TOTAL (kg)			
CA50	25.7		

 INSTITUTO FEDERAL Sertão Pernambucano	INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA SERTÃO PERNAMBUCANO DIRETORIA DE ENGENHARIA E INFRAESTRUTURA Rua Aristarco Lopes, 240 Centro Petrolina/PE CEP: 56.302-100	NOME: PROJETO ESTRUTURAL DO CAMPUS ARARIPINA DO IF Sertão PE	
		ENDEREÇO: Av. Recife, S/N, CEP: 56280-000 Araripina/PE	

DESCRIÇÃO: SAPATAS II (BLOCO ADM - PARTE 2.)	ESCALA: 1/75	DATA: ABRIL/2025
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ASSINATURA/CARIMBO - DIREÇÃO GERAL:	ASSINATURA/CARIMBO - RESPONSÁVEL TÉCNICO: Wilson Nery da Cunha - CREA BA 14748
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Características dos materiais	
Ra	Abastecimento
(MPa)	(cm)
25	5.00

Dimensão máxima do agregado = 19 mm

Legenda dos pilares	
	Pilar que morre
	Pilar que passa
	Pilar com mudança de seção

Legenda das vigas e paredes	
	Viga

Forma do pavimento TERREO (Nível 0)
escala 1:75



Forma do pavimento PRIMEIRO (Nível 320)
escala 1:75

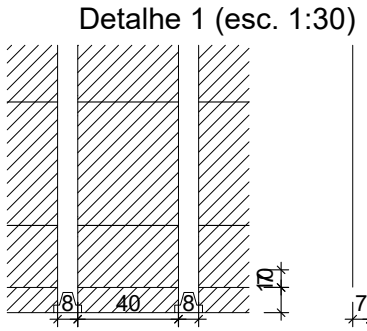
Dados		Lajes				Sobrecarga (kN/m²)		
		Altura (cm)	Nível (cm)	Peso próprio (kN/m²)	Adicional	Acidental	Localizada	
L1	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L2	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L3	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L4	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L5	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L6	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L7	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L8	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L9	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L10	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L11	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L12	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L13	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L14	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L15	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L16	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L17	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L18	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L19	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L20	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L21	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L22	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L23	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L24	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L25	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L26	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L27	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L28	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L29	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L30	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L31	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L32	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L33	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L34	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L35	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L36	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L37	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L38	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L39	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L40	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L41	Pré-moldada	17	-2	318	2,18	2,31	0,50	-
L42	Pré-moldada	17	-2	318	2,18	2,31	0,50	-
L43	Pré-moldada	17	-2	318	2,18	2,31	0,50	-
L44	Pré-moldada	17	-2	318	2,18	2,31	0,50	-
L45	Pré-moldada	17	-2	318	2,18	2,31	0,50	-
L46	Pré-moldada	17	-2	318	2,18	2,31	0,50	-
L47	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L48	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L49	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L50	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L51	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L52	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L53	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L54	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L55	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L56	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L57	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L58	Pré-moldada	17	0	320	2,18	2,31	0,50	-
L59	Pré-moldada	17	-2	318	2,18	1,82	1,00	-
L60	Pré-moldada	17	0	320	2,18	1,82	1,00	-
L61	Pré-moldada	17	0	320	2,18	2,31	0,50	-

Características dos materiais	
k _k	Abatimento
(MPa)	(cm)
25	5,00

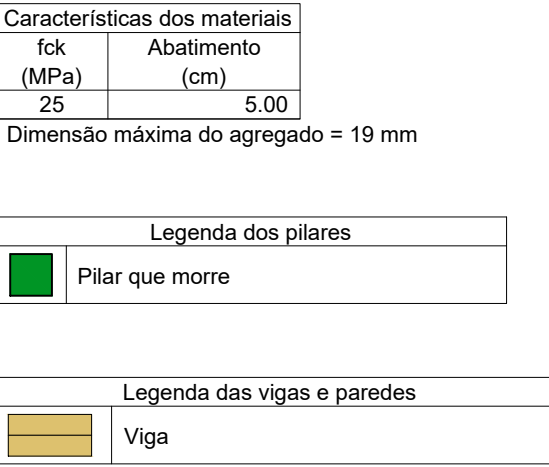
Dimensão máxima do agregado = 19 mm

Legenda dos pilares	
	Pilar que morre
	Pilar que passa

Legenda das vigas e paredes	
	Viga

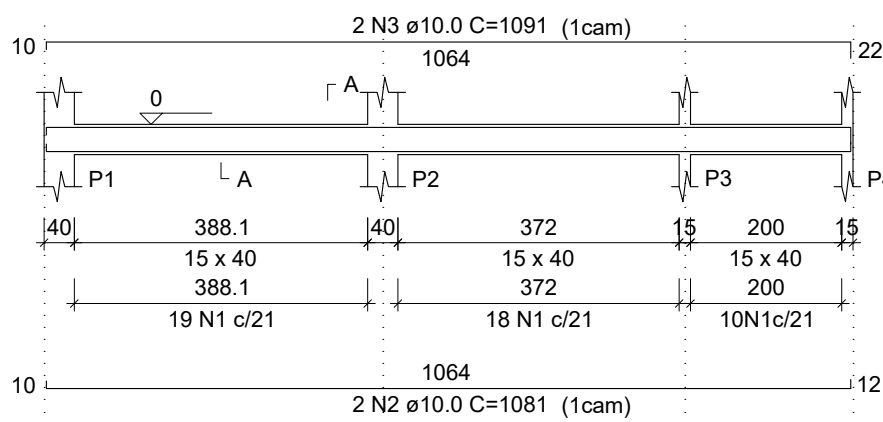


Blocos de enchimento						
Detalhe	Tipo	Nome	Dimensões(cm)			Quantidade
			hb	bx	by	
1	EPS Unidirecional	B10(40/49	10	40	49	5329



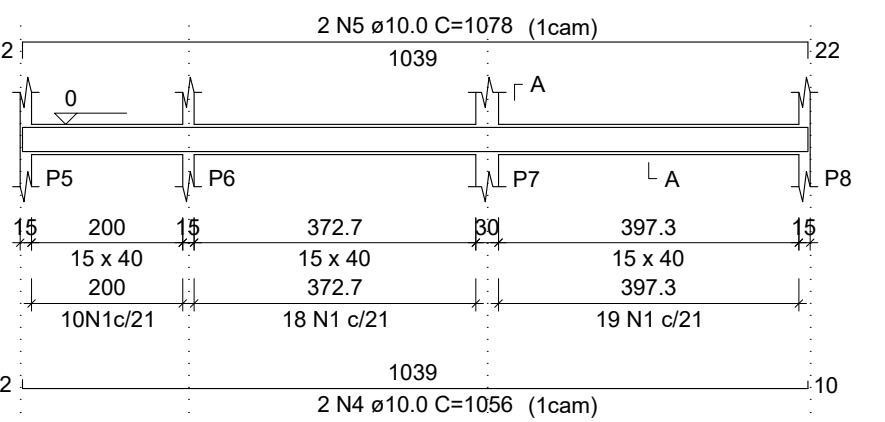
 INSTITUTO FEDERAL Rio de Janeiro	INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA SERTÃO PERNAMBUCANO DIRETORIA DE ENGENHARIA E INFRAESTRUTURA Rua Antenor Lopes, 240 Centro Petrolândia/PE CEP: 56.302-100	NOME: PROJETO ESTRUTURAL DO CAMPUS ARARINHA DO IFSertãoPE ENDEREÇO: Rua Antenor Lopes, 240 Centro Petrolândia/PE CEP: 56.302-100 Ararinha/PE	DATA: ABRIL/2025
ORIENTADO: PLANTA DE FORMA - PLANTABANDA (BLOCO ADM - PARTE 2)		ARQUITETO/CARIBEIRO - RESPONSÁVEL TÉCNICO: Wilson Nery da Cunha - CREA BA 14748	
ESTUDANTE/GARFOSO - DESENO: OTIMAL			

V1 (15 x 40)
ESC 1:100



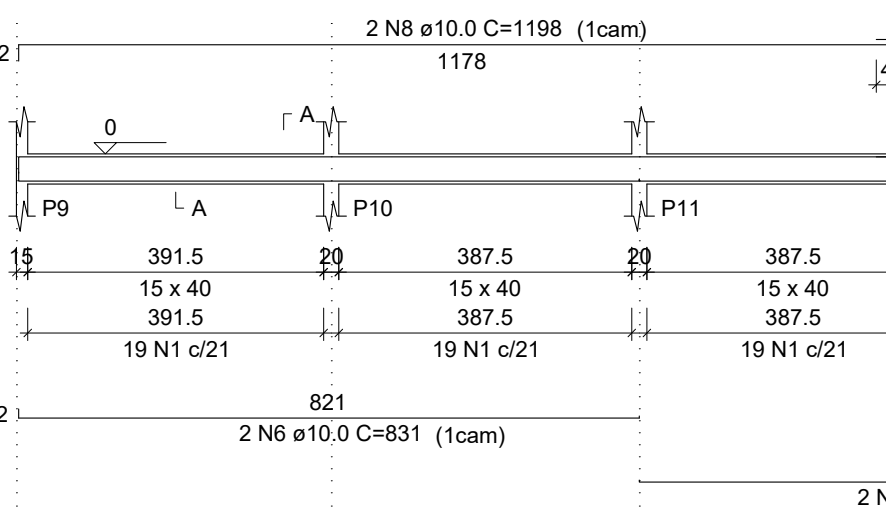
SEÇÃO A-A
ESC 1:25

V2 (15 x 40)
ESC 1:100



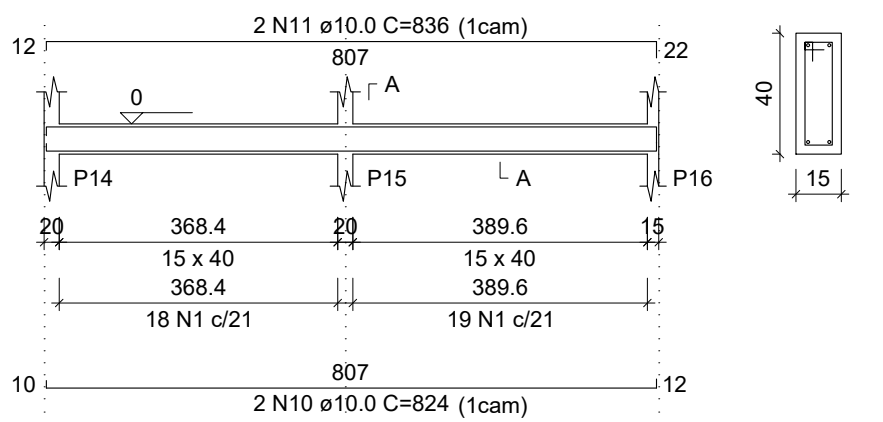
SEÇÃO A-A
ESC 1:25

V3 (15 x 40)
ESC 1:100



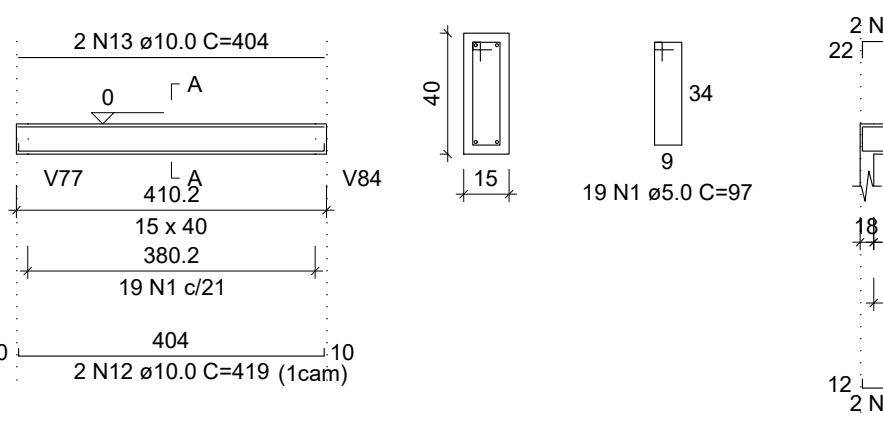
SEÇÃO A-A
ESC 1:25

V4 (15 x 40)
ESC 1:100



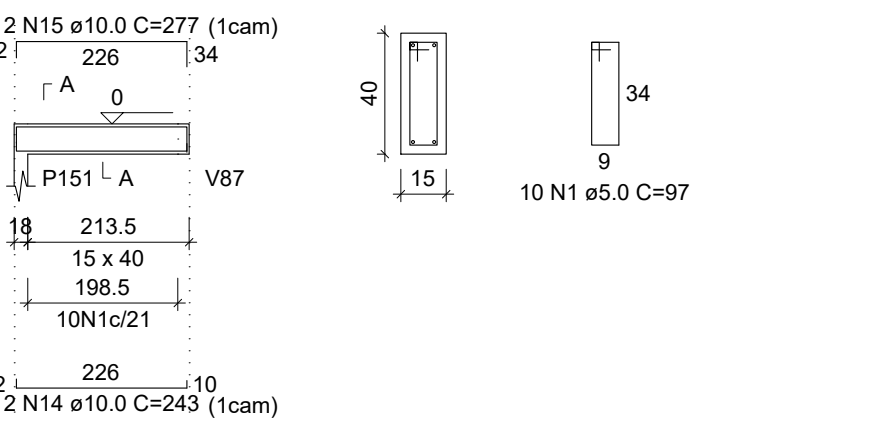
SEÇÃO A-A
ESC 1:25

V5 (15 x 40)
ESC 1:100



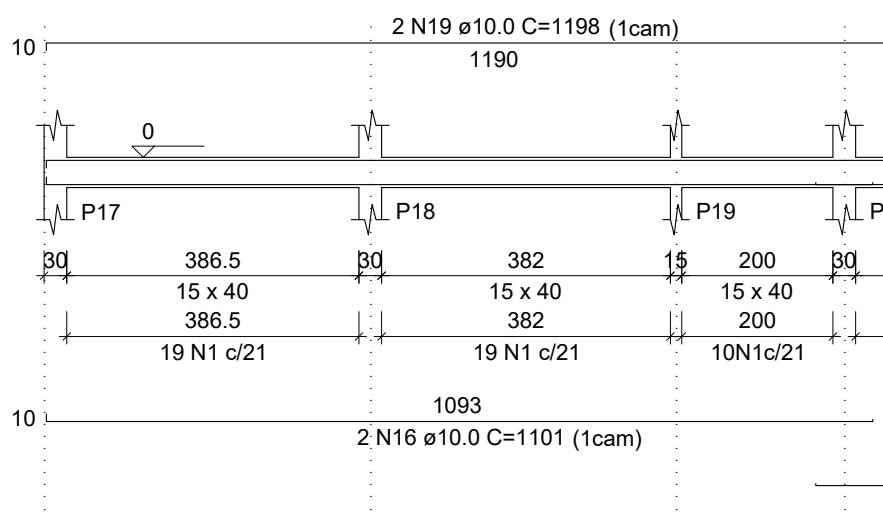
SEÇÃO A-A
ESC 1:25

V6 (15 x 40)
ESC 1:100



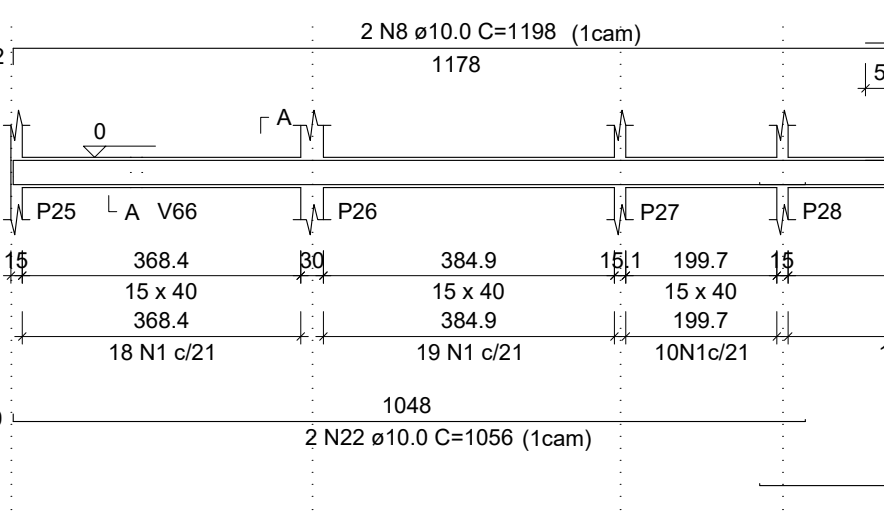
SEÇÃO A-A
ESC 1:25

V7 (15 x 40)
ESC 1:100



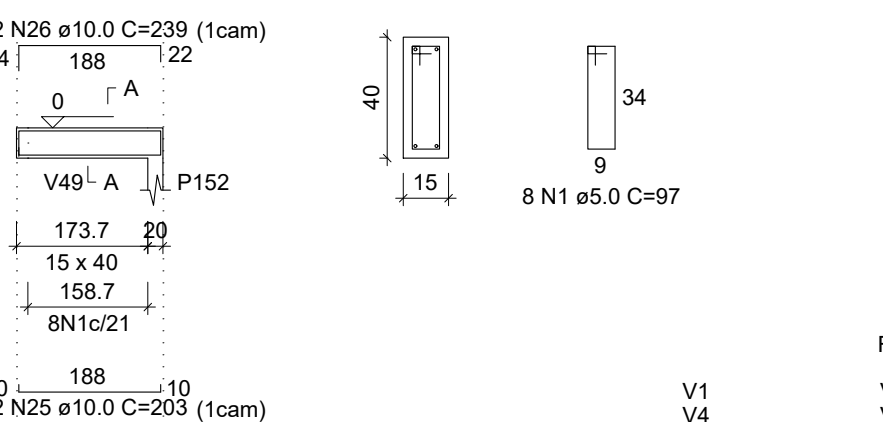
SEÇÃO A-A
ESC 1:25

V8 (15 x 40)
ESC 1:100



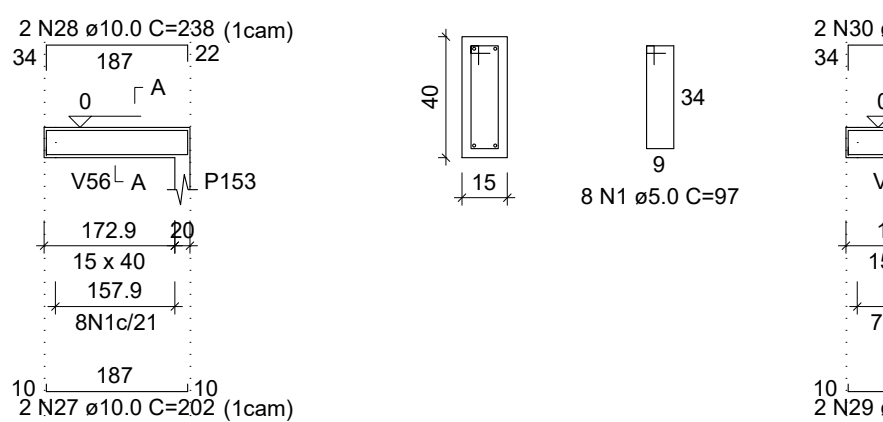
SEÇÃO A-A
ESC 1:25

V9 (15 x 40)
ESC 1:100



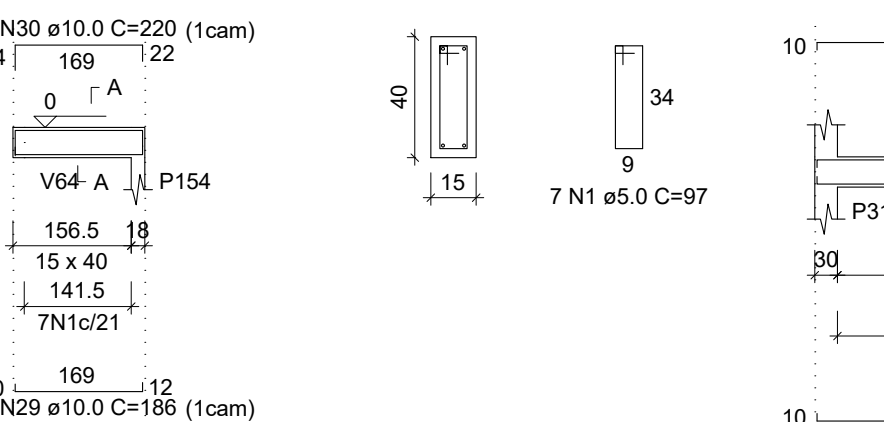
SEÇÃO A-A
ESC 1:25

V10 (15 x 40)
ESC 1:100



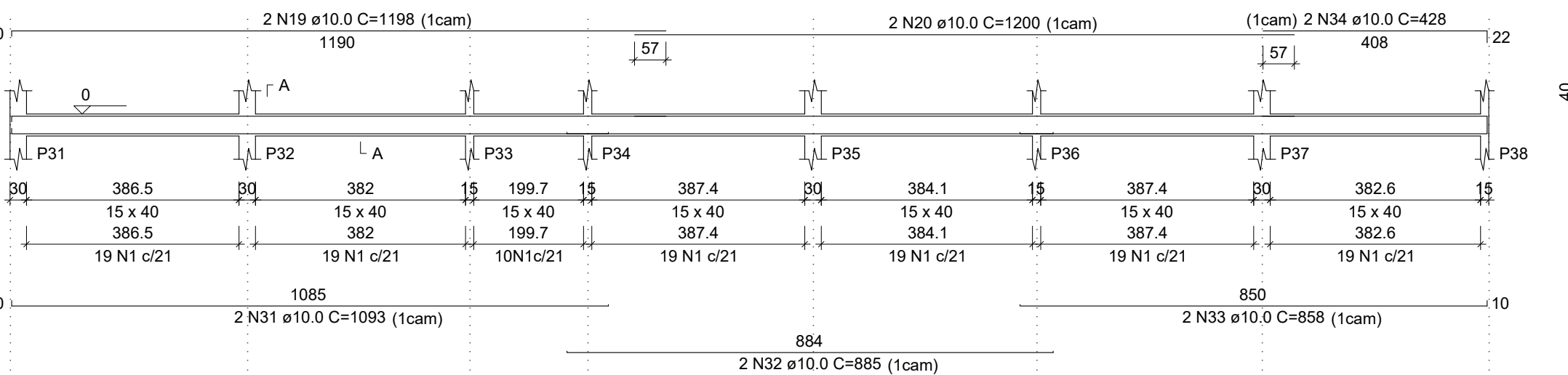
SEÇÃO A-A
ESC 1:25

V11 (15 x 40)
ESC 1:100



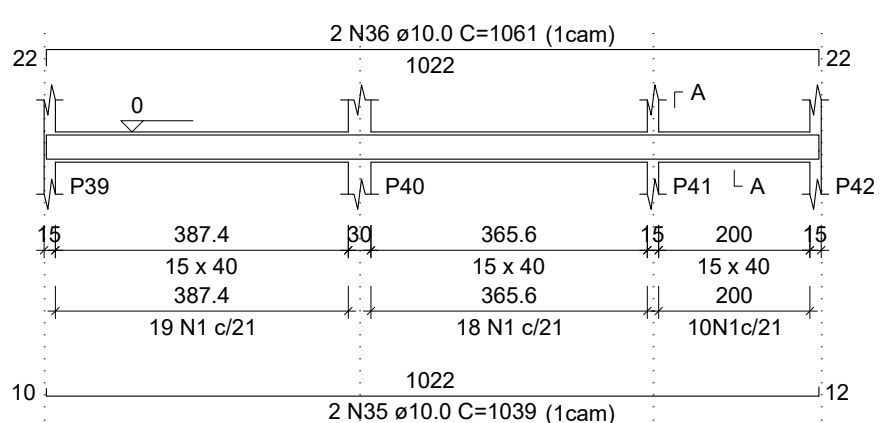
SEÇÃO A-A
ESC 1:25

V12 (15 x 40)
ESC 1:100



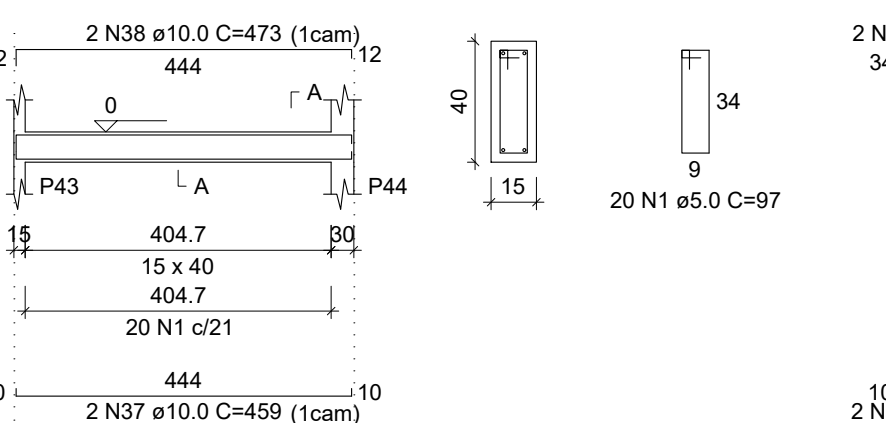
SEÇÃO A-A
ESC 1:25

V13 (15 x 40)
ESC 1:100



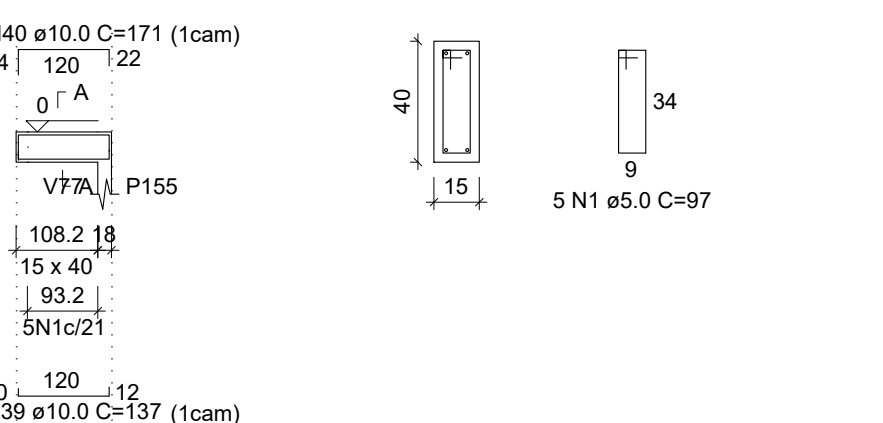
SEÇÃO A-A
ESC 1:25

V14 (15 x 40)
ESC 1:100



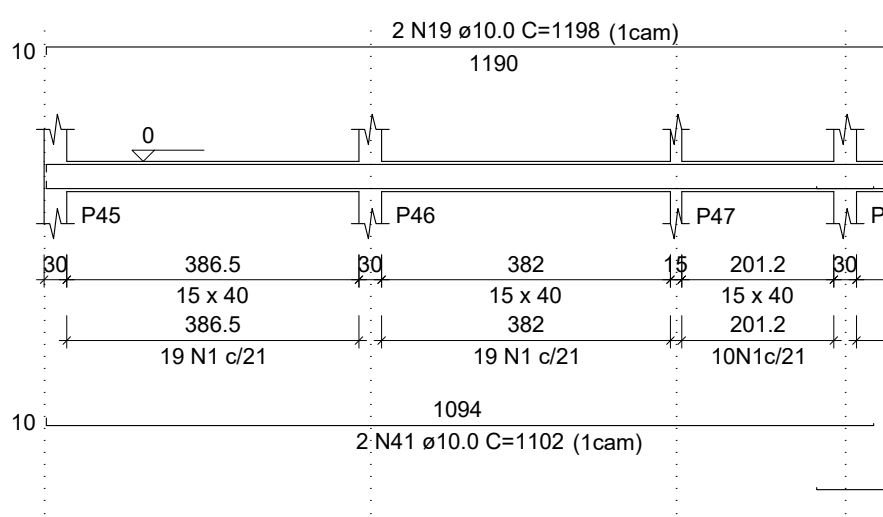
SEÇÃO A-A
ESC 1:25

V15 (15 x 40)
ESC 1:100



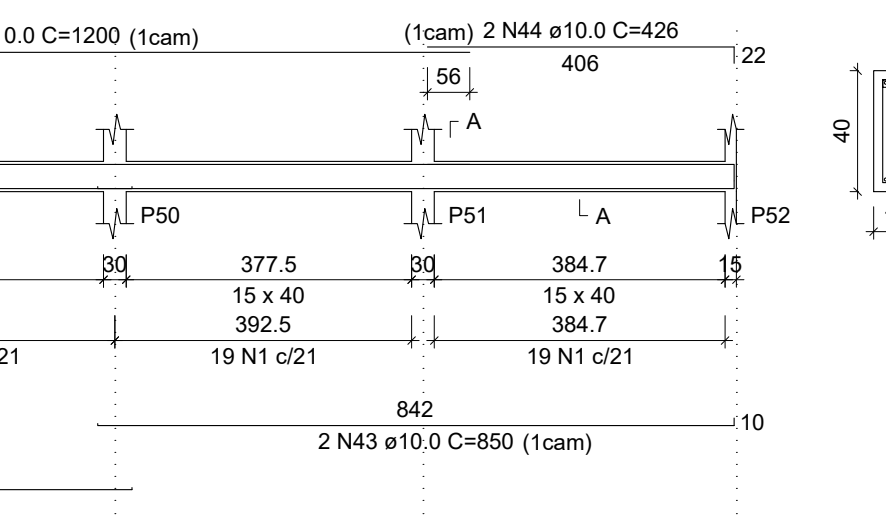
SEÇÃO A-A
ESC 1:25

V16 (15 x 40)
ESC 1:100



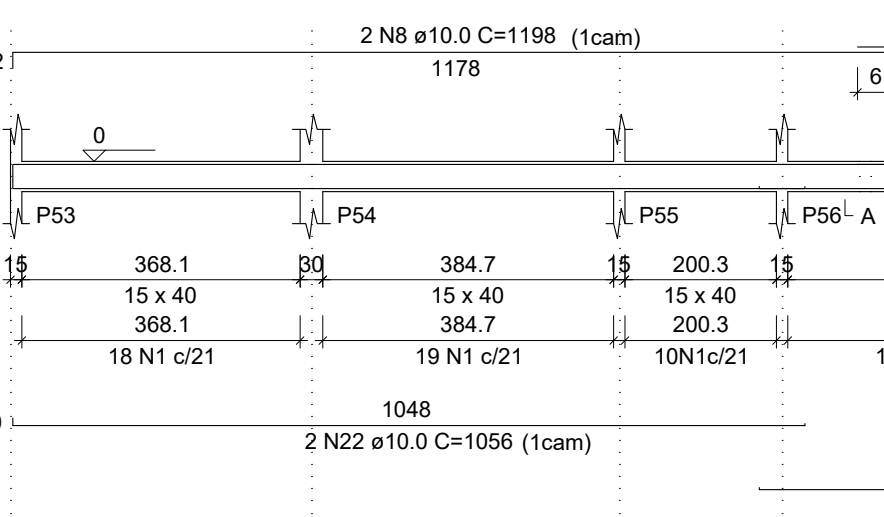
SEÇÃO A-A
ESC 1:25

V17 (15 x 40)
ESC 1:100



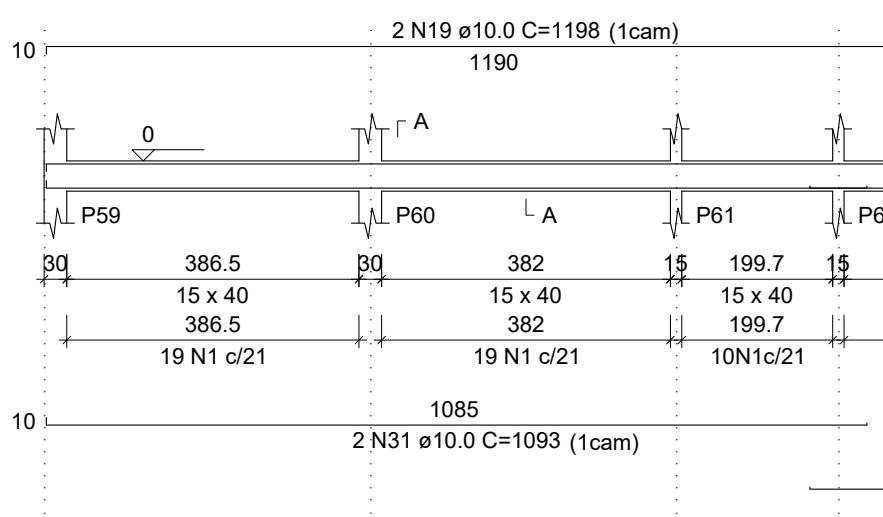
SEÇÃO A-A
ESC 1:25

V18 (15 x 40)
ESC 1:100



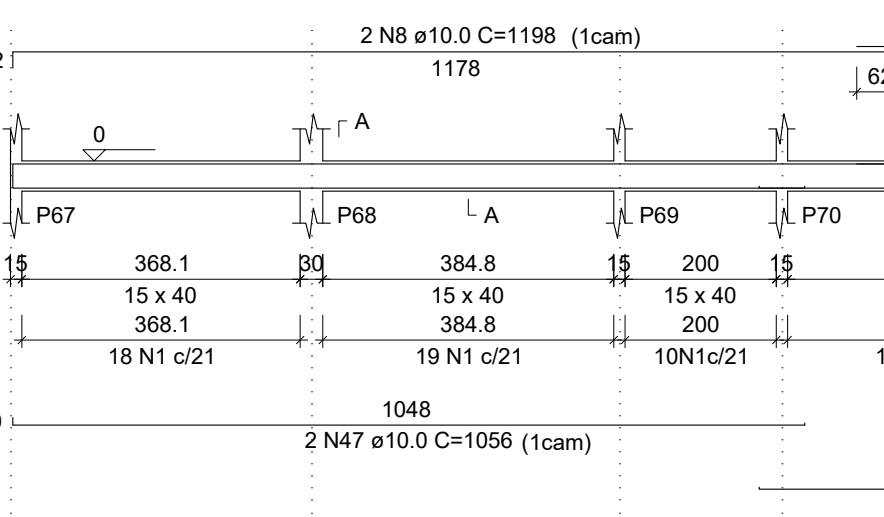
SEÇÃO A-A
ESC 1:25

V19 (15 x 40)
ESC 1:100



SEÇÃO A-A
ESC 1:25

V20 (15 x 40)
ESC 1:100



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1081	97	104857
CA50	2	10.0	2	1081	2162
	3	10.0	2	1091	2182
	4	10.0	2	1056	2112
	5	10.0	2	1078	2156
	6	10.0	2	831	1662
	7	10.0	2	827	1654
	8	10.0	8	1198	9584
	9	10.0	2	516	1032
	10	10.0	2	824	1648
	11	10.0	2	836	1672
	12	10.0	2	419	838
	13	10.0	2	404	808
	14	10.0	2	243	486
	15	10.0	2	277	554
	16	10.0	2	1101	2202
	17	10.0	2	850	1700
	18	10.0	2	858	1716
	19	10.0	8	1198	9584
	20	10.0	8	1200	9600
	21	10.0	2	424	848
	22	10.0	4	1056	4224
	23	10.0	2	873	1746
	24	10.0	2	733	1466
	25	10.0	2	203	406
	26	10.0	2	239	478
	27	10.0	2	202	404
	28	10.0	2	238	476
	29	10.0	2	186	372
	30	10.0	2	220	440
	31	10.0	4	1093	4372
	32	10.0	4	885	3540
	33	10.0	4	858	3432
	34	10.0	4	428	1712
	35	10.0	2	1039	2078
	36	10.0	2	1061	2122
	37	10.0	2	459	918
	38	10.0	2	473	946
	39	10.0	2	137	274
	40	10.0	2	171	342
	41	10.0	2	1102	2204
	42	10.0	2	869	1738
	43	10.0	2	850	1700
	44	10.0	2	426	852
	45	10.0	2	872	1744
	46	10.0	2	744	1488
	47	10.0	2	1056	2112
	48	10.0	2	873	1746
	49	10.0	2	743	1486

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	990.2	610.5
CA60	5.0	1048.6	161.6
PESO TOTAL (kg)			
CA50	610.5		
CA60	161.6		

Volume de concreto (C-25) = 14.23 m³

Área de forma = 225.28 m²



INSTITUTO FEDERAL DE
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

INSTITUTO FEDERAL
Sertão Pernambucano

PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IF Sertão PE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:
VIGAS DO PAVIMENTO TERREIRO I (BLOCO ADM - PARTE 2.)

ESCALA:
1/75

DATA:
ABRIL/2025

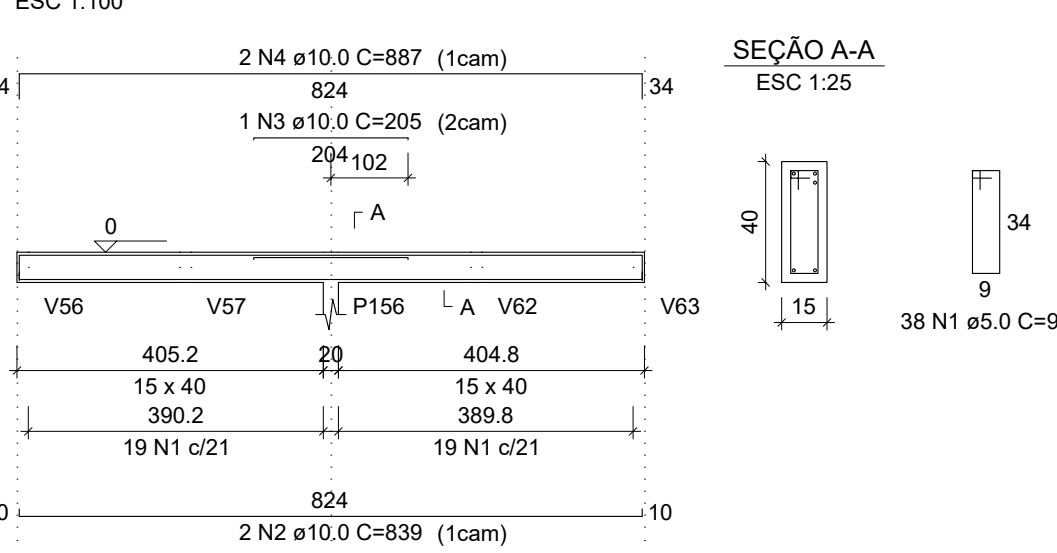
ASSINATURACARIMBO - DIREÇÃO GERAL

ASSINATURACARIMBO - RESPONSÁVEL TÉCNICO

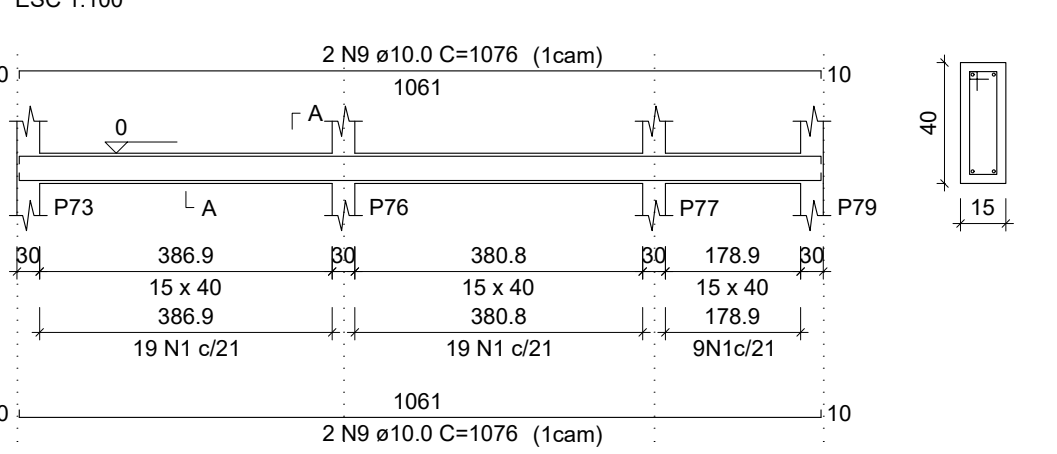
WILSON NERY DA CUNHA - CREA BA 14748

07/26

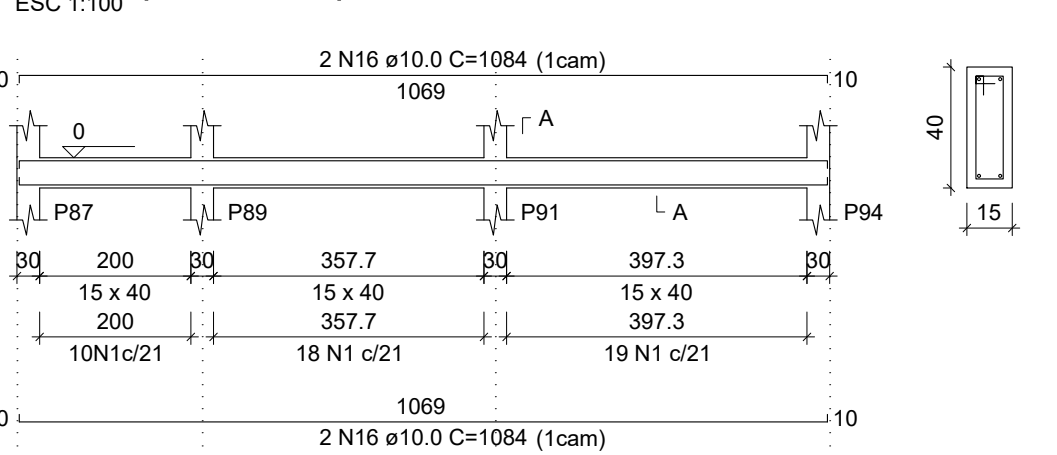
V20 (15 x 40)



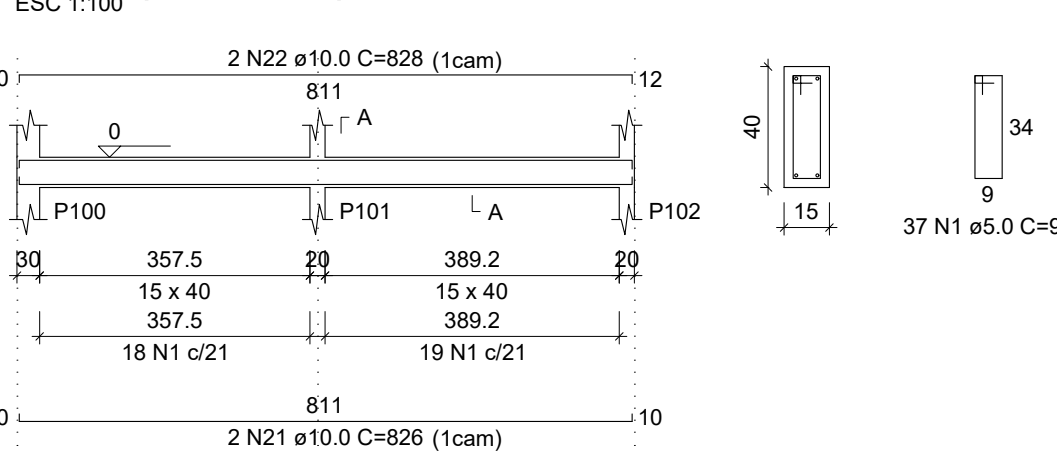
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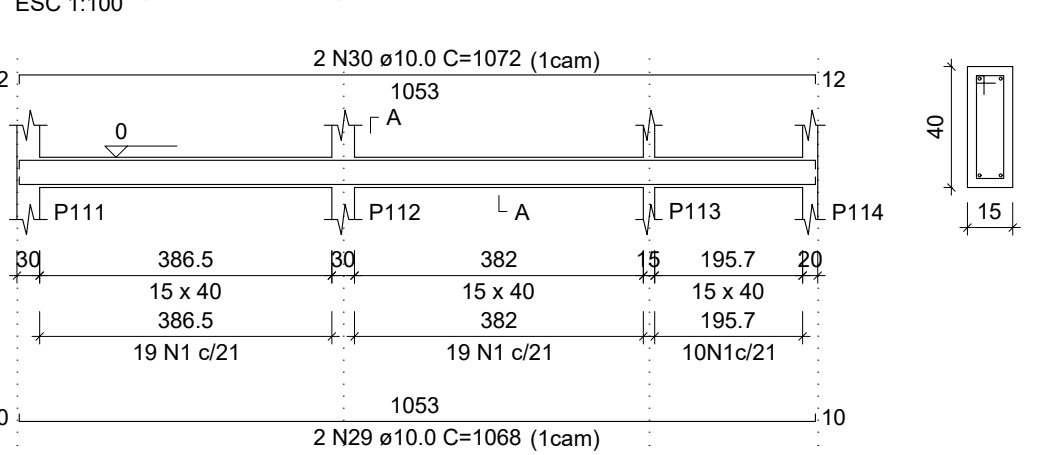
V27 (15 x 40)



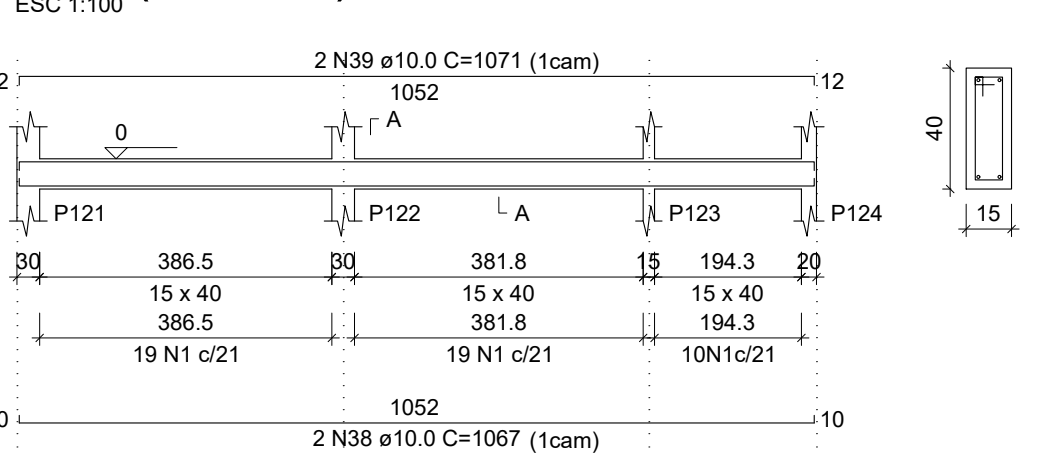
V30 (15 x 40)



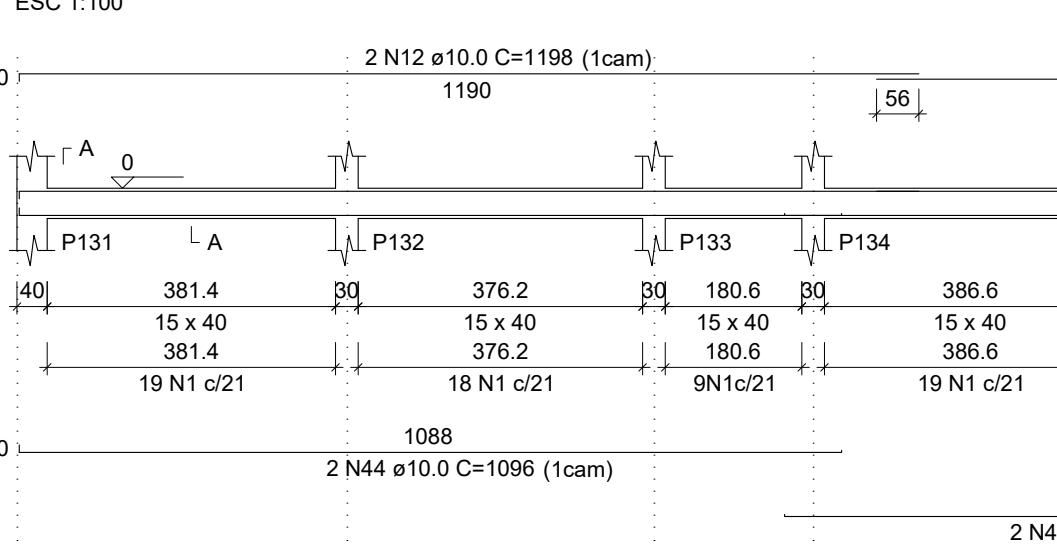
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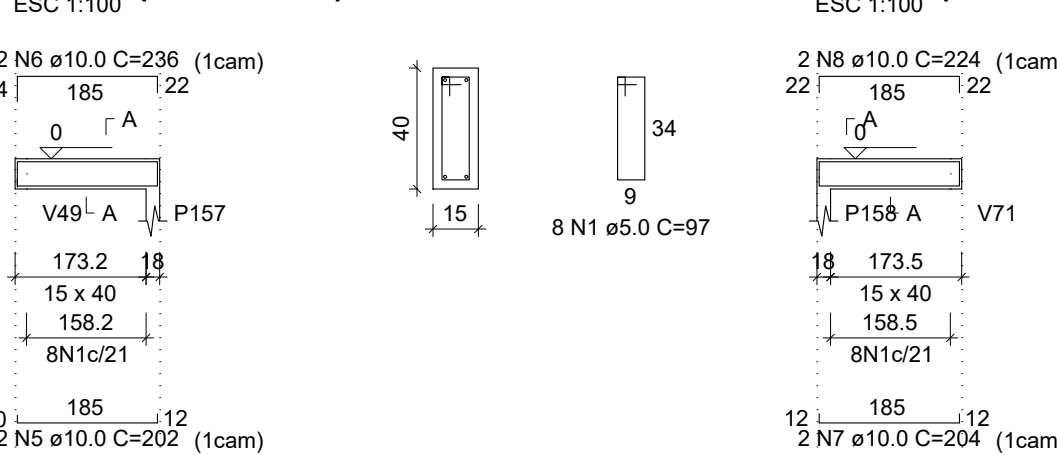
V38 (15 x 40)



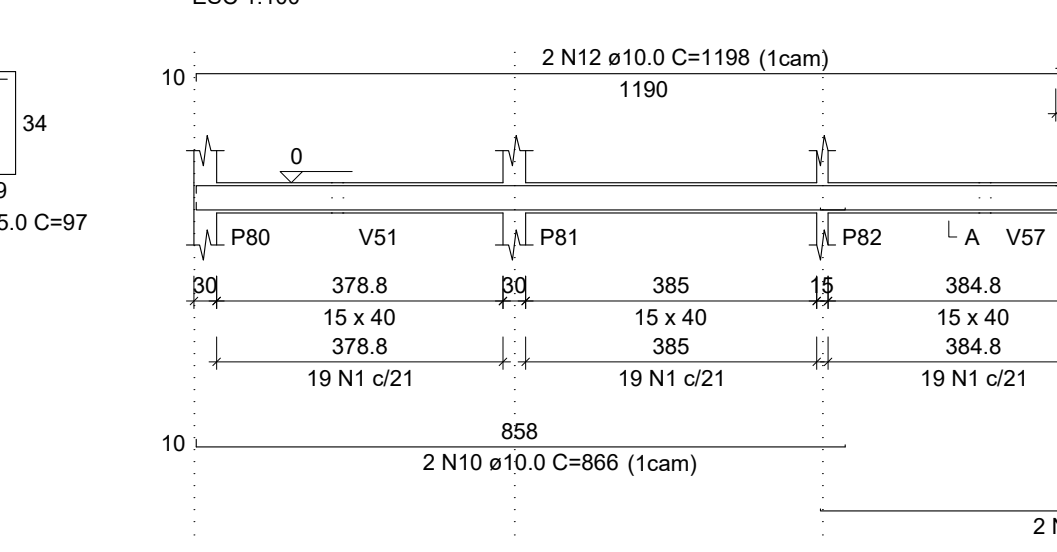
V41 (15 x 40)



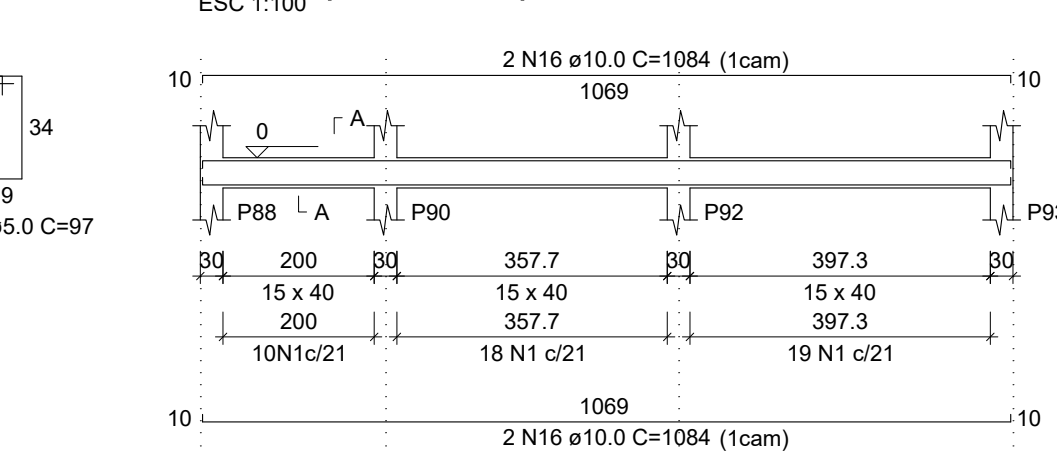
V21 (15 x 40)



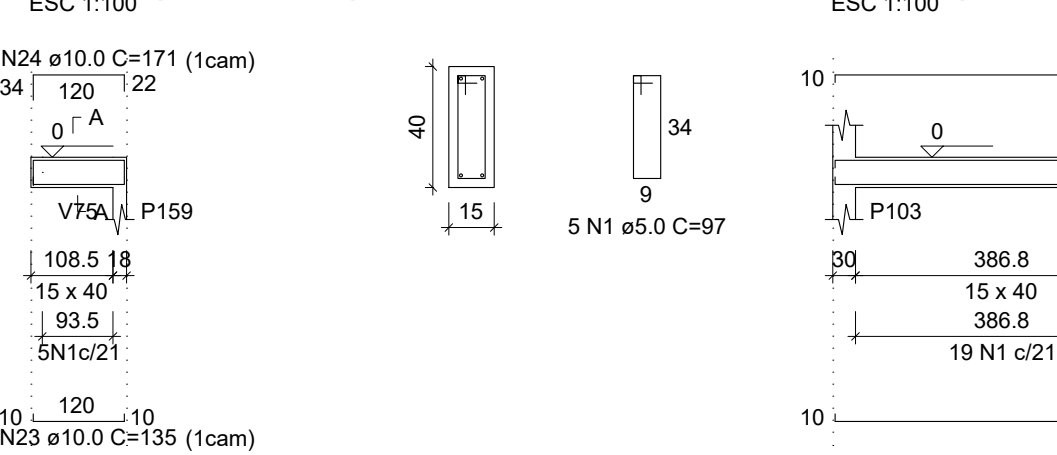
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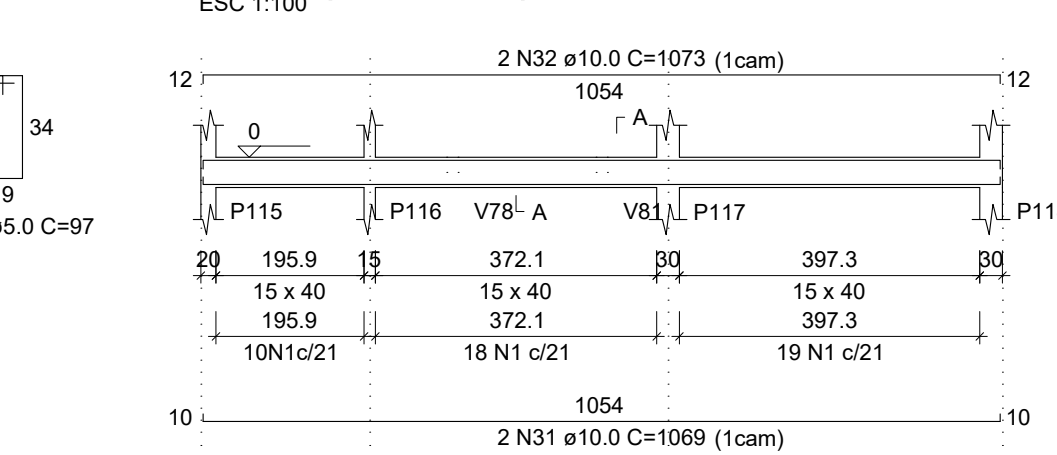
V28 (15 x 40)



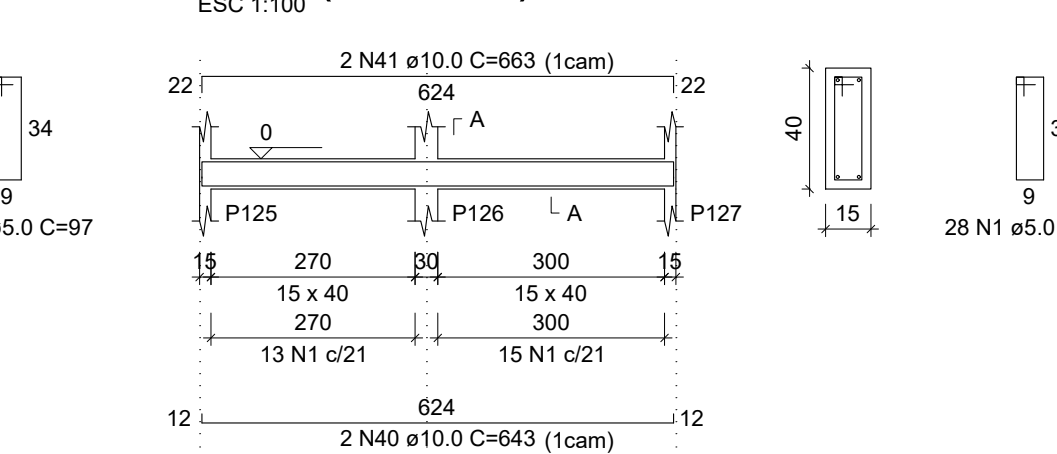
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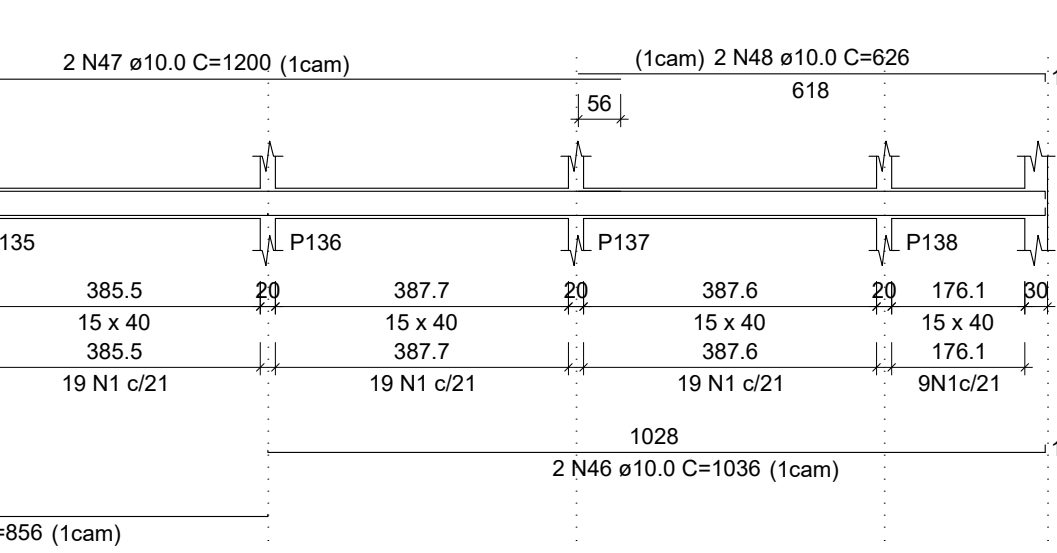
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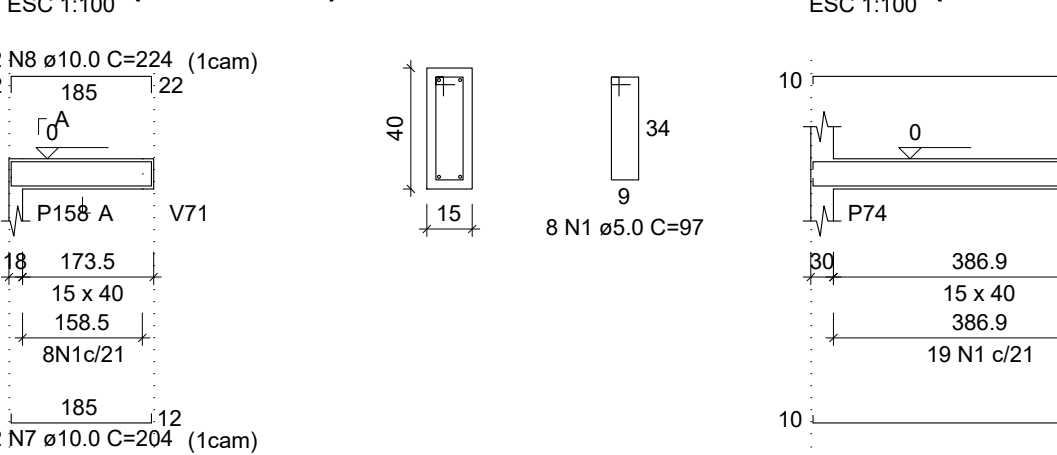
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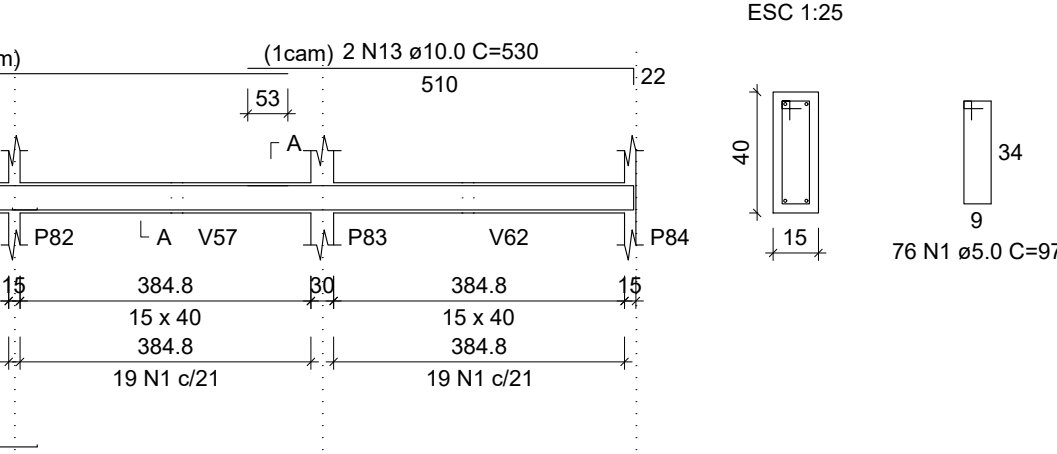
V40 (15 x 40)



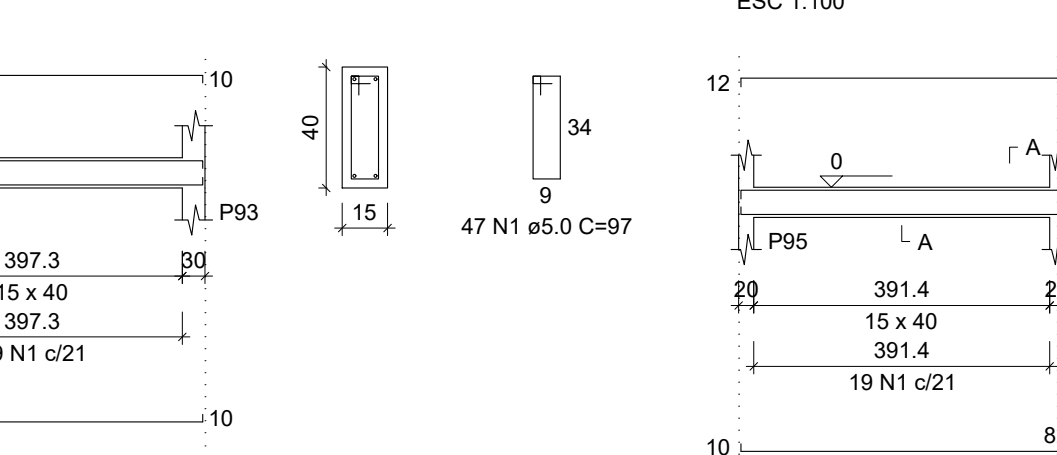
V22 (15 x 40)



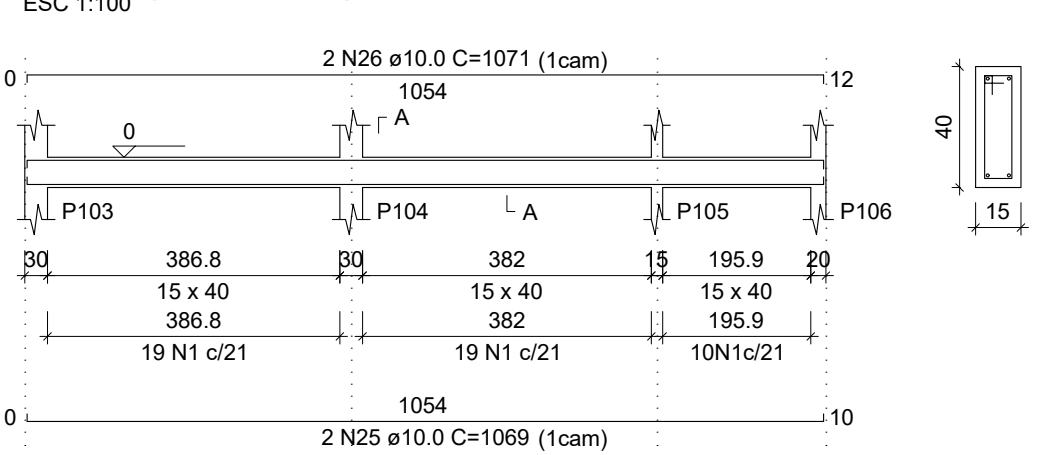
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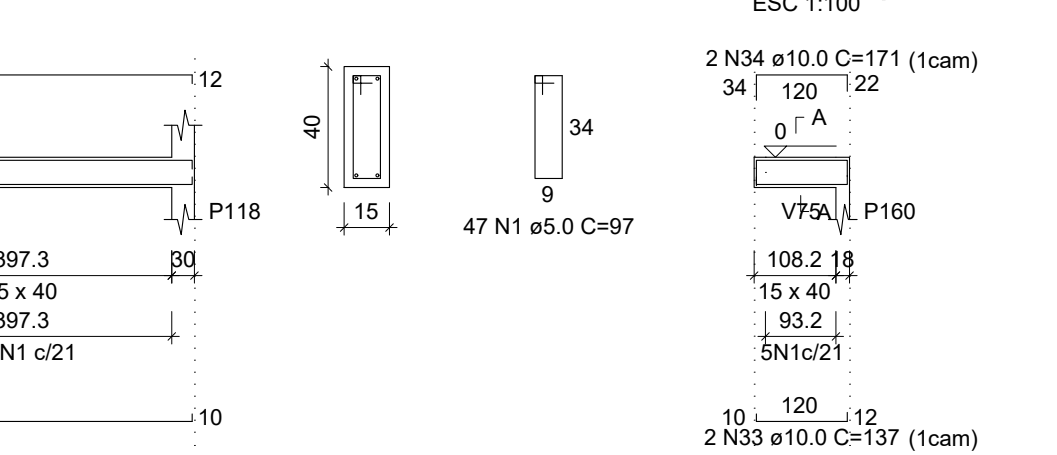
V29 (15 x 40)



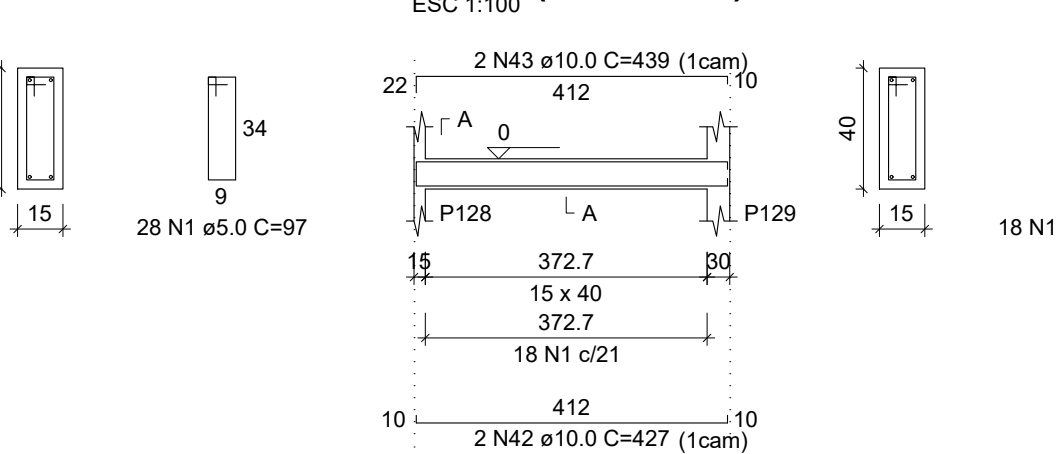
V32 (15 x 40)



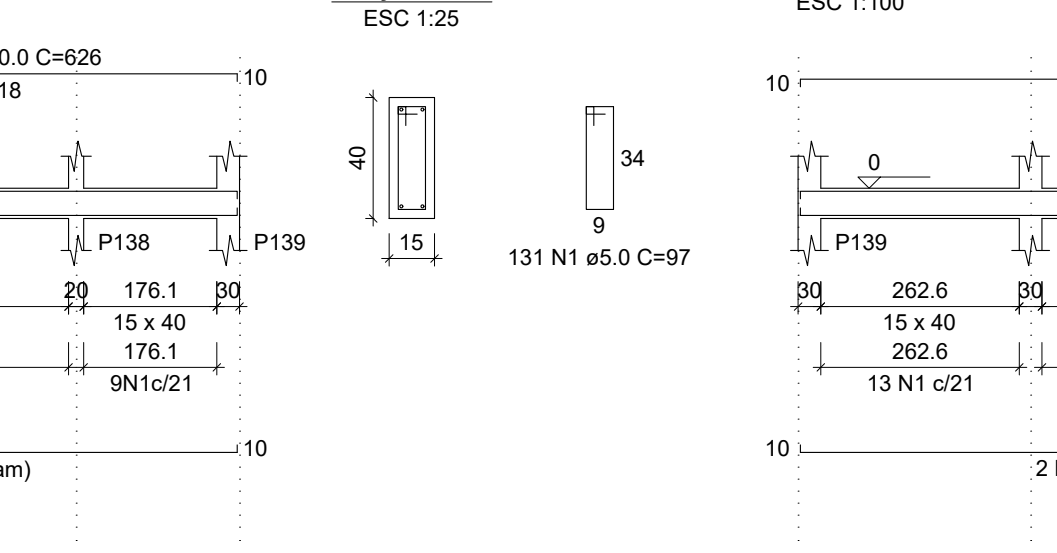
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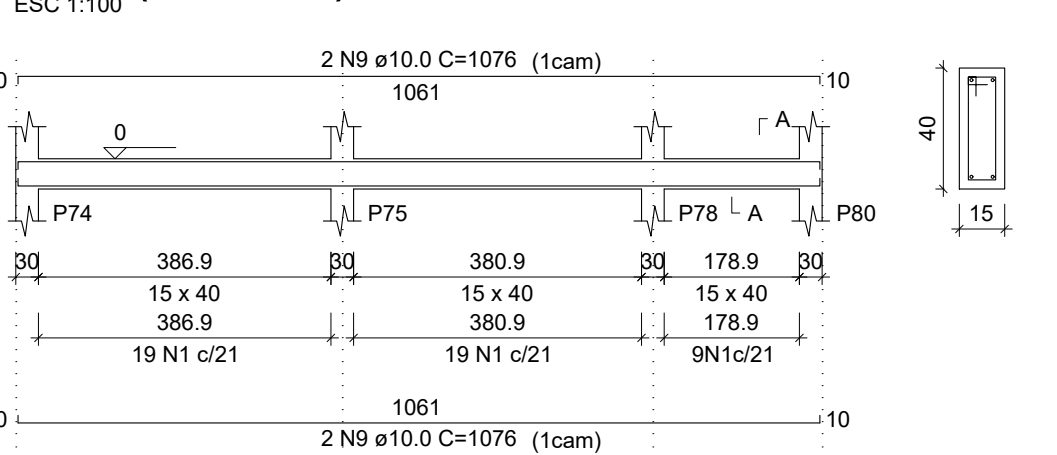
V42 (15 x 40)



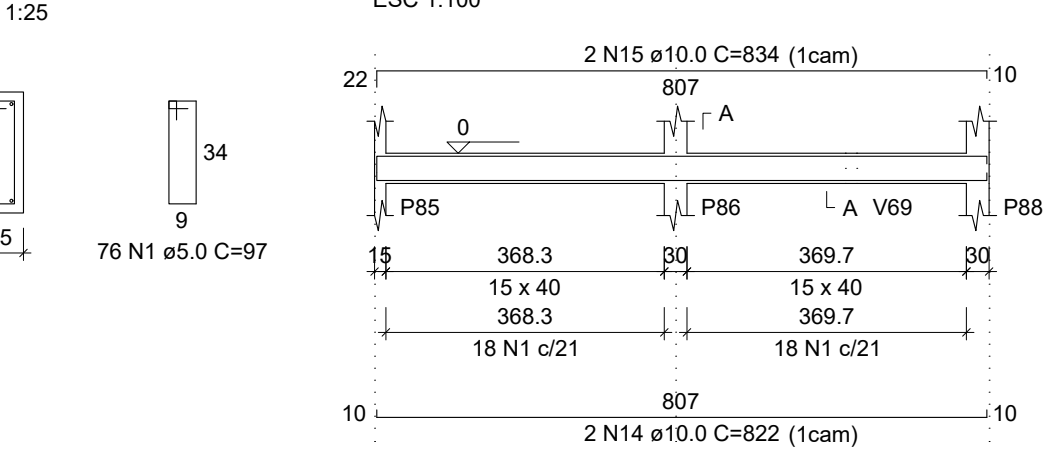
V42 (15 x 40)



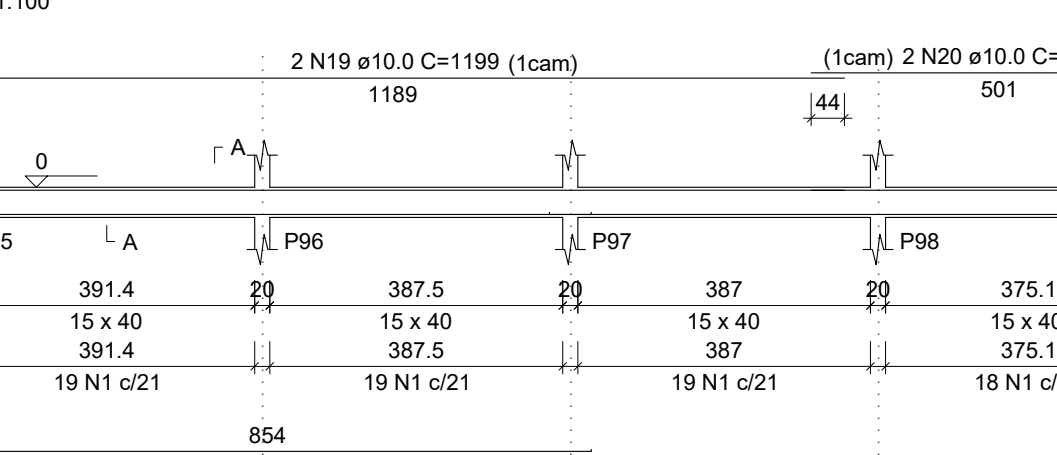
V23 (15 x 40)



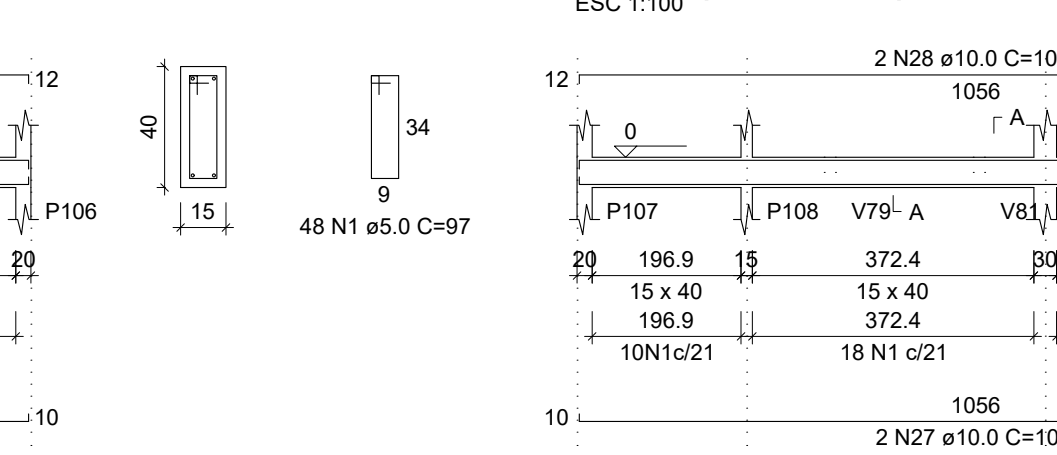
V26 (15 x 40)



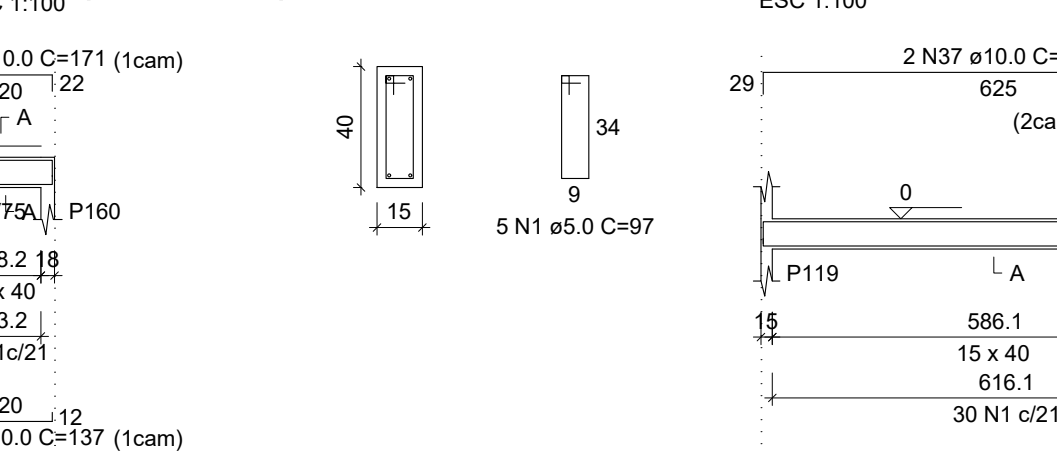
V29 (15 x 40)



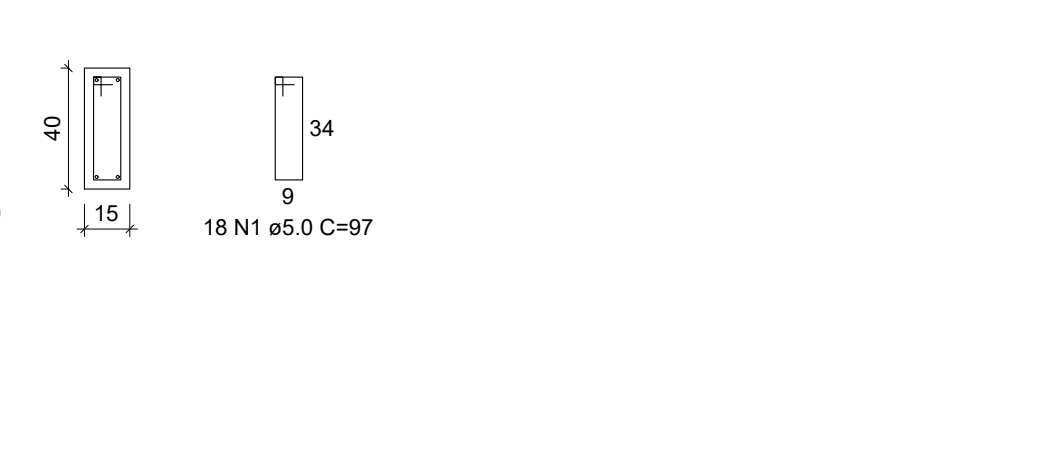
V33 (15 x 40)



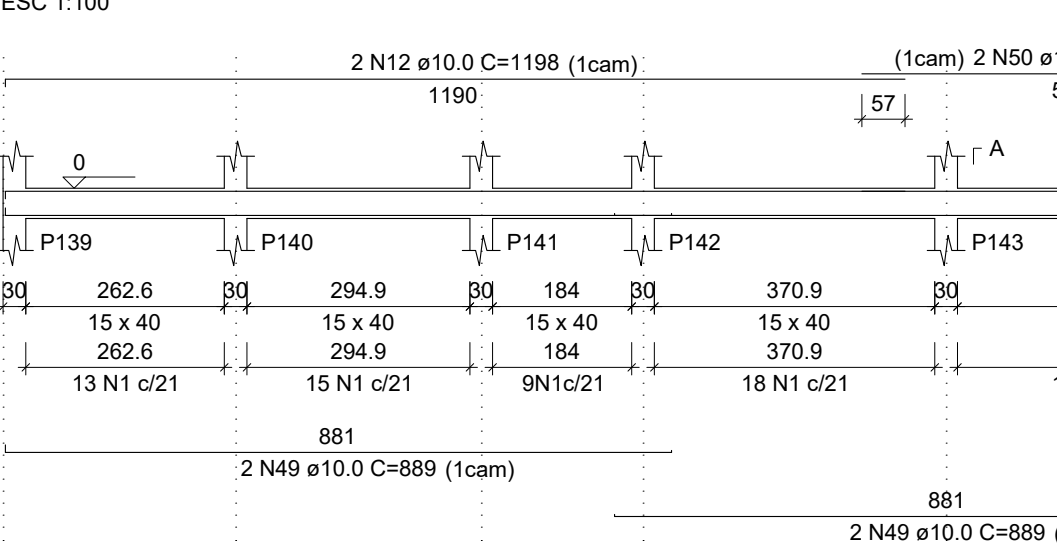
V36 (15 x 40)



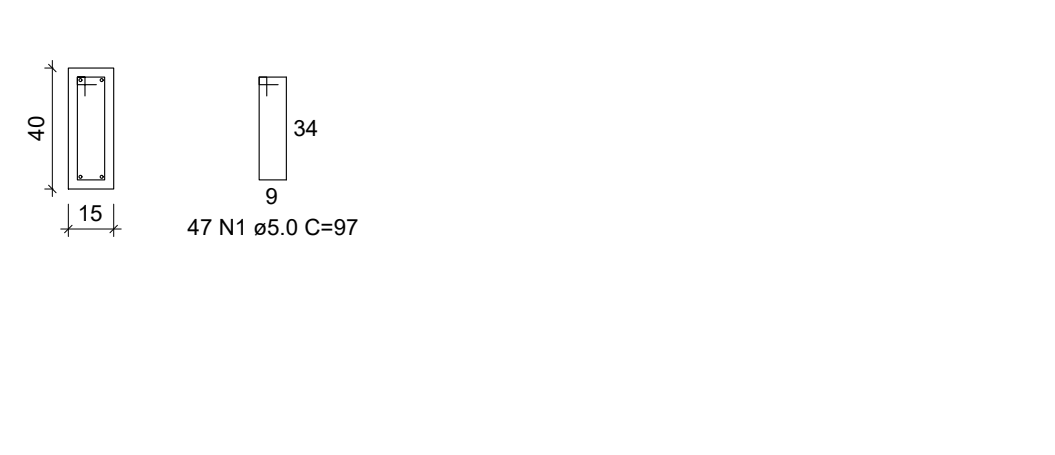
V40 (15 x 40)



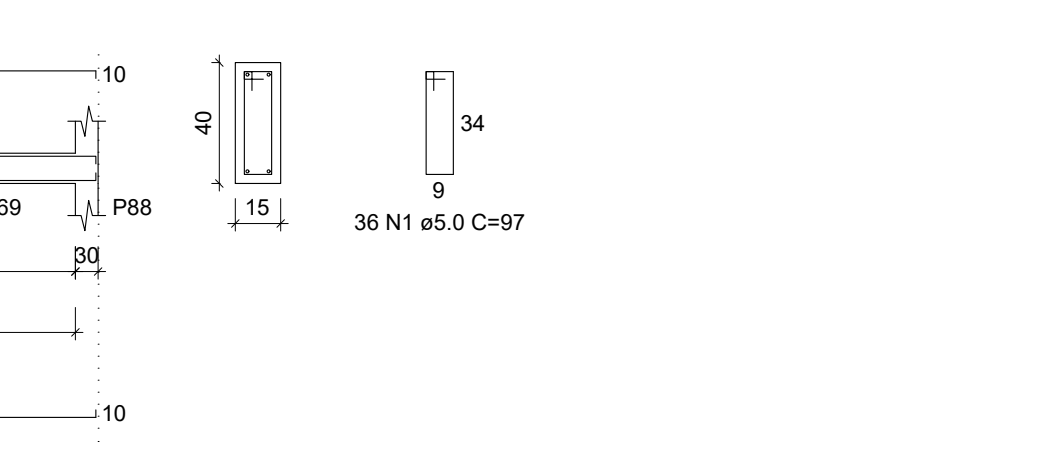
V42 (15 x 40)



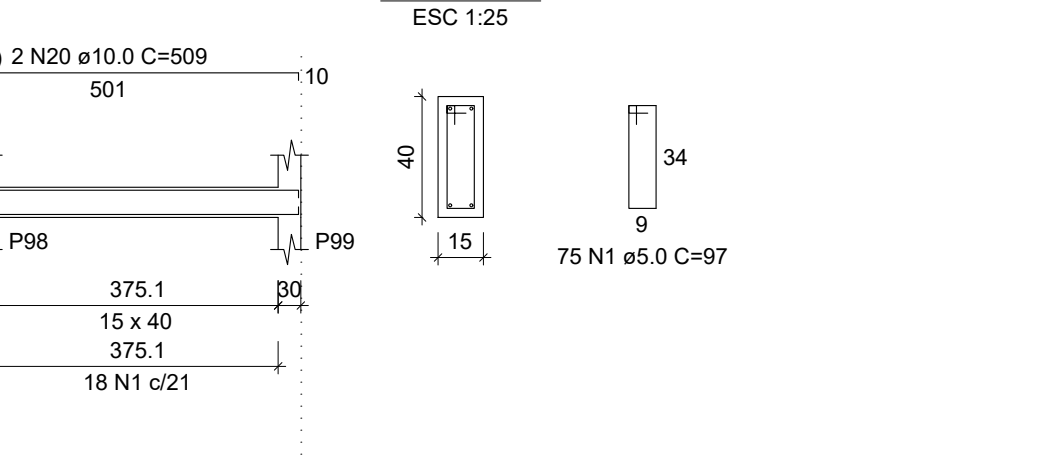
SEÇÃO A-A



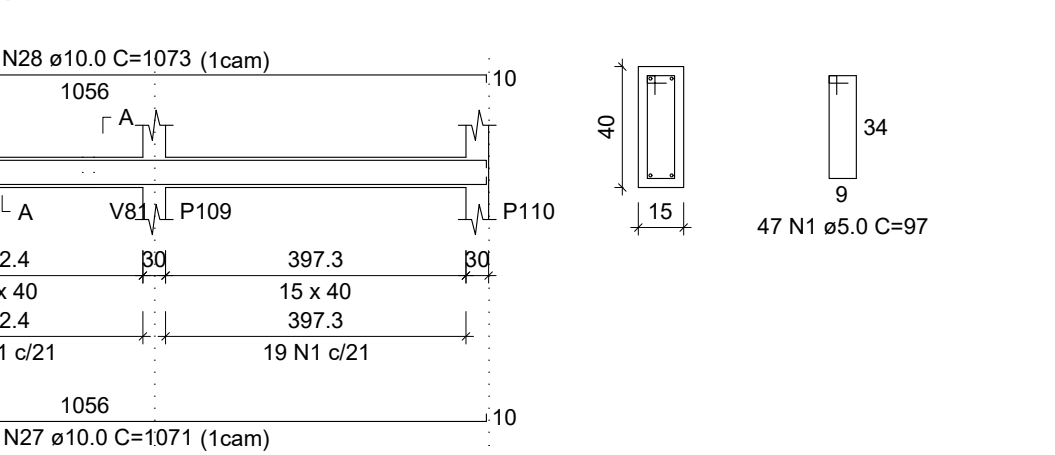
SEÇÃO A-A



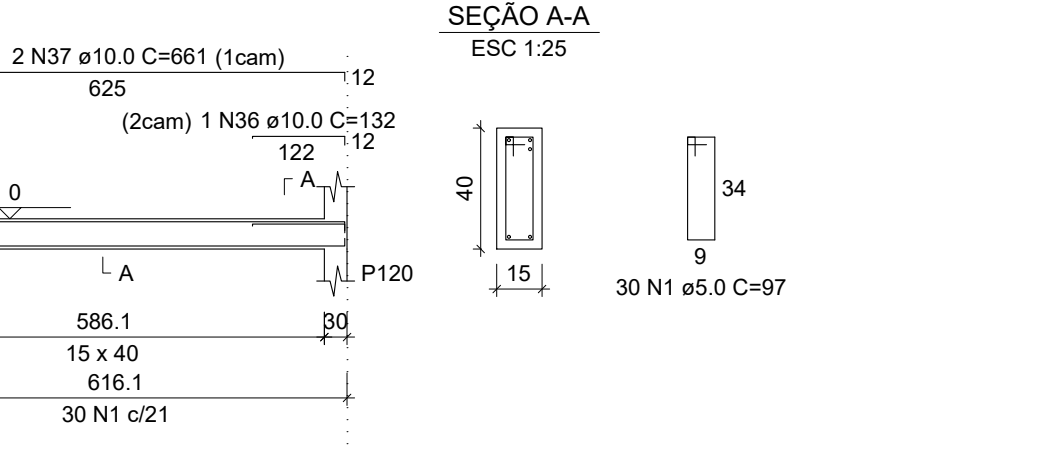
SEÇÃO A-A



SEÇÃO A-A



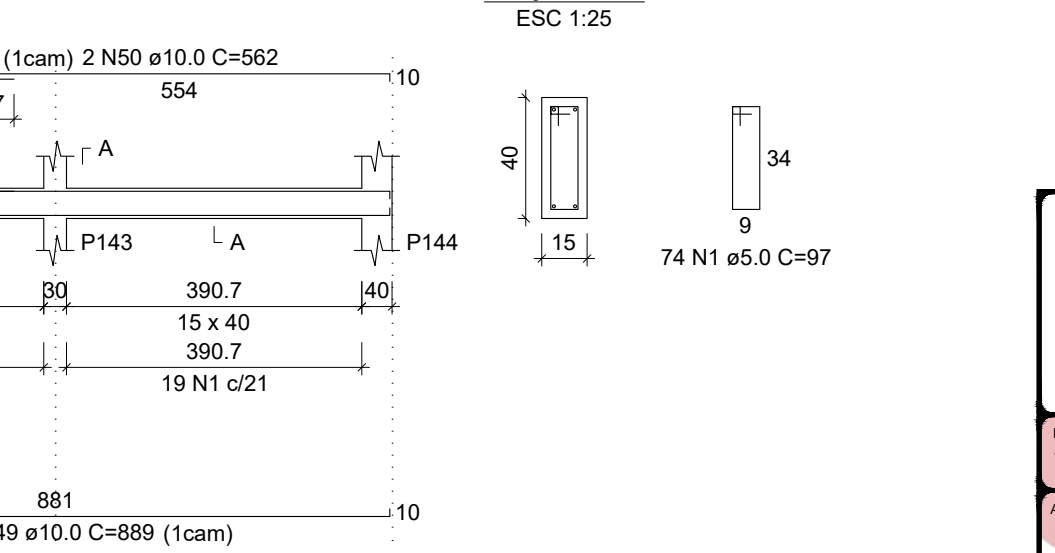
SEÇÃO A-A



SEÇÃO A-A



SEÇÃO A-A



RELAÇÃO DO AÇO

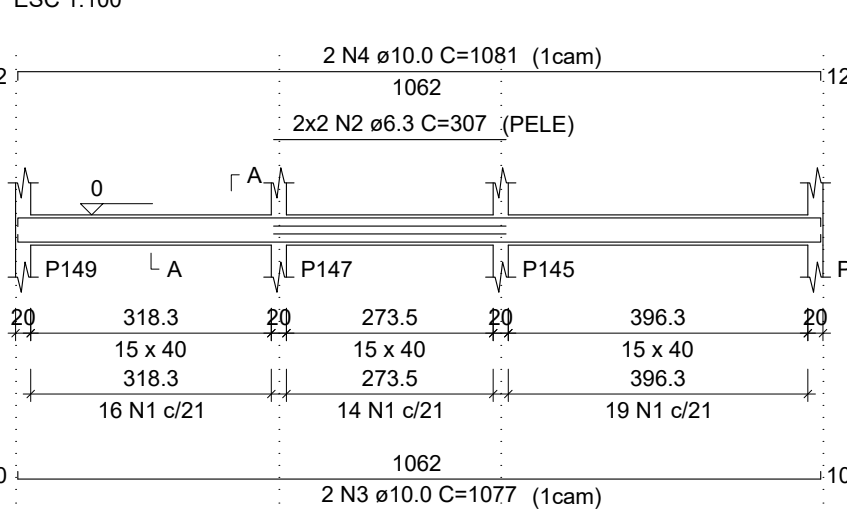
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	995	97	96515
CA50	2	10.0	2	839	1678
	3	10.0	1	205	205
	4	10.0	2	887	1774
	5	10.0	2	202	404
	6	10.0	2	236	472
	7	10.0	2	204	408
	8	10.0	2	224	448
	9	10.0	8	1076	8608
	10	10.0	2	866	1732
	11	10.0	2	830	1660
	12	10.0	6	1198	7188
	13	10.0	2	530	1060
	14	10.0	2	822	1644
	15	10.0	2	834	1668
	16	10.0	8	1084	8672
	17	10.0	2	862	1724
	18	10.0	2	855	1710
	19	10.0	2	1199	2398
	20	10.0	2	509	1018
	21	10.0	2	826	1652
	22	10.0	2	828	1656
	23	10.0	2	135	270
	24	10.0	2	171	342
	25	10.0	2	1069	2138
	26	10.0	2	1071	2142
	27	10.0	2	1071	2142
	28	10.0	2	1073	2146
	29	10.0	2	1068	2136
	30	10.0	2	1072	2144
	31	10.0	2	1069	2138
	32	10.0	2	1073	2146
	33	10.0	2	137	274
	34	10.0	2	171	342
	35	10.0	2	640	1280
	36	10.0	1	132	132
	37	10.0	2	661	1322
	38	10.0	2	1067	2134
	39	10.0	2	1071	2142
	40	10.0	2	643	1286
	41	10.0	2	663	1326
	42	10.0	2	427	854
	43	10.0	2	439	878
	44	10.0	2	1096	2192
	45	10.0	2	856	1712
	46	10.0	2	1036	2072
	47	10.0	2	1200	2400
	48	10.0	2	626	1252
	49	10.0	4	889	3556
	50	10.0	2	562	1124

RESUMO DO AÇO

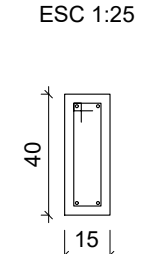
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	918	566
CA60	5.0	965.1	148.8
PESO TOTAL (kg)			
CA50			566
CA60			148.8

Volume de concreto (C-25) = 13.35 m³
Área de forma = 211.42 m²

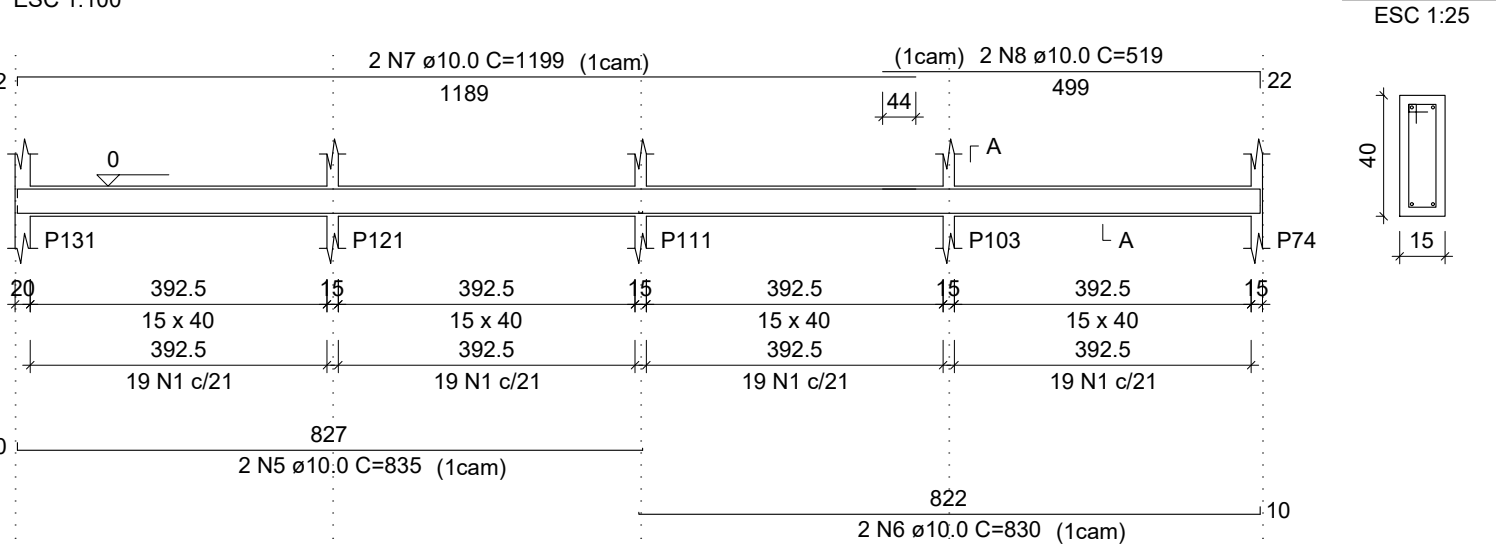
V43 (15 x 40)



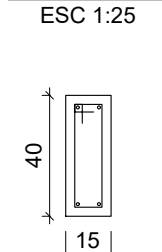
SEÇÃO A-A



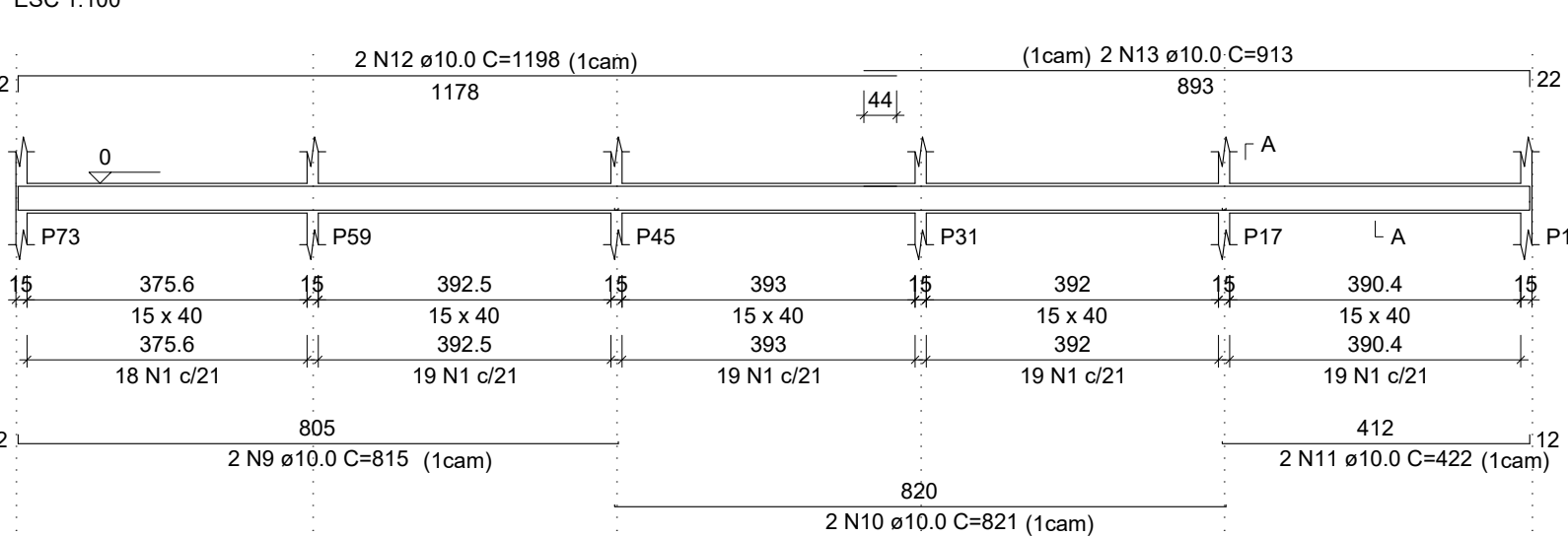
V44 (15 x 40)



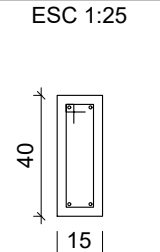
SEÇÃO A-A



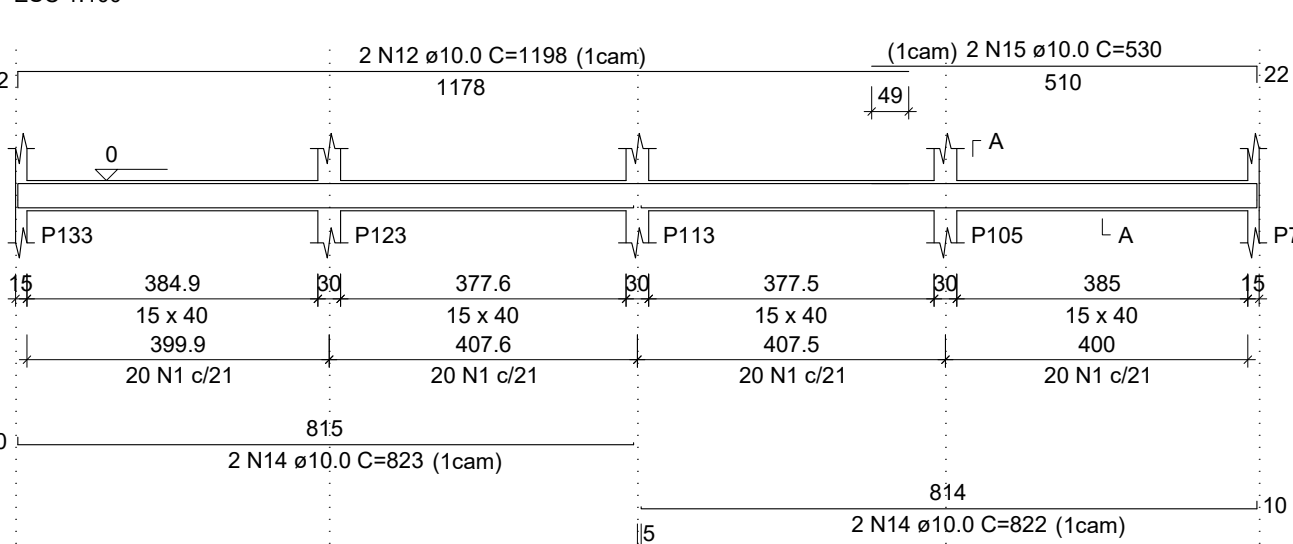
V45 (15 x 40)



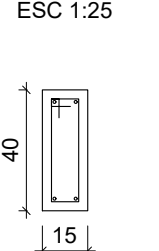
SEÇÃO A-A



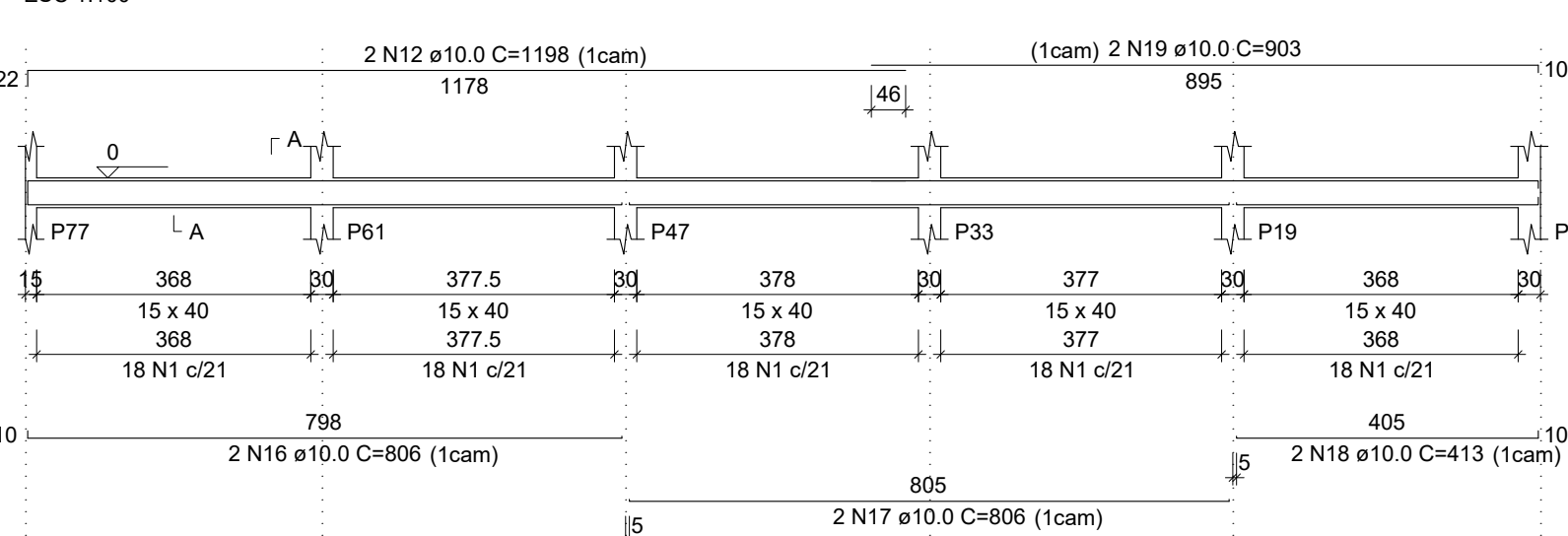
V46 (15 x 40)



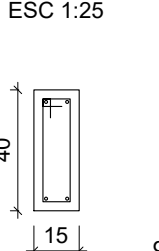
SEÇÃO A-A



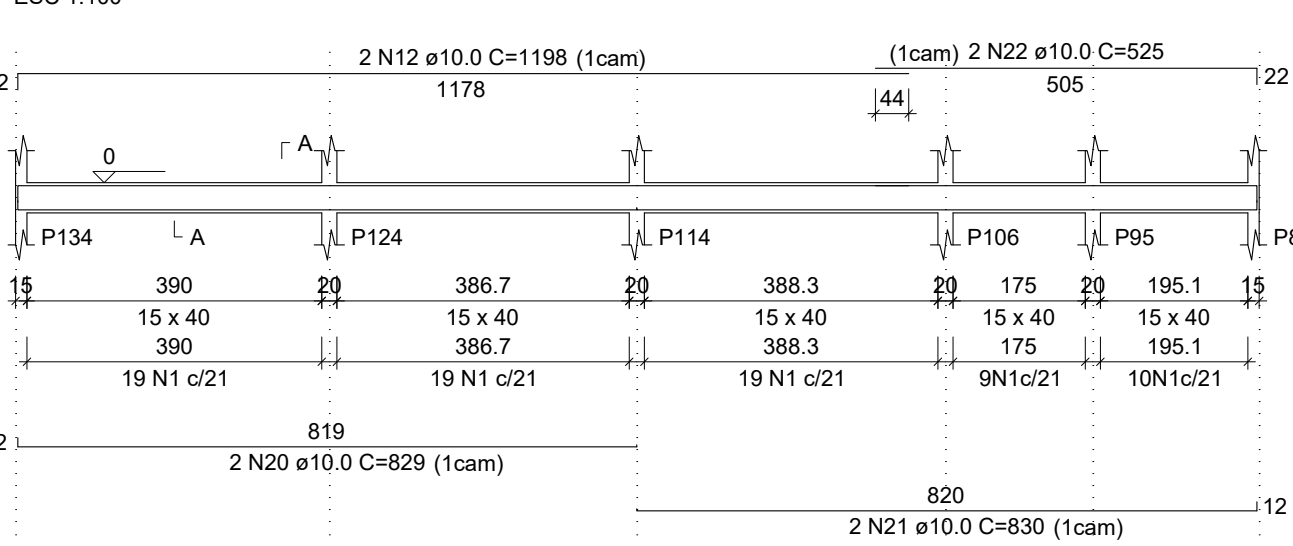
V47 (15 x 40)



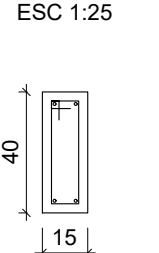
SEÇÃO A-A



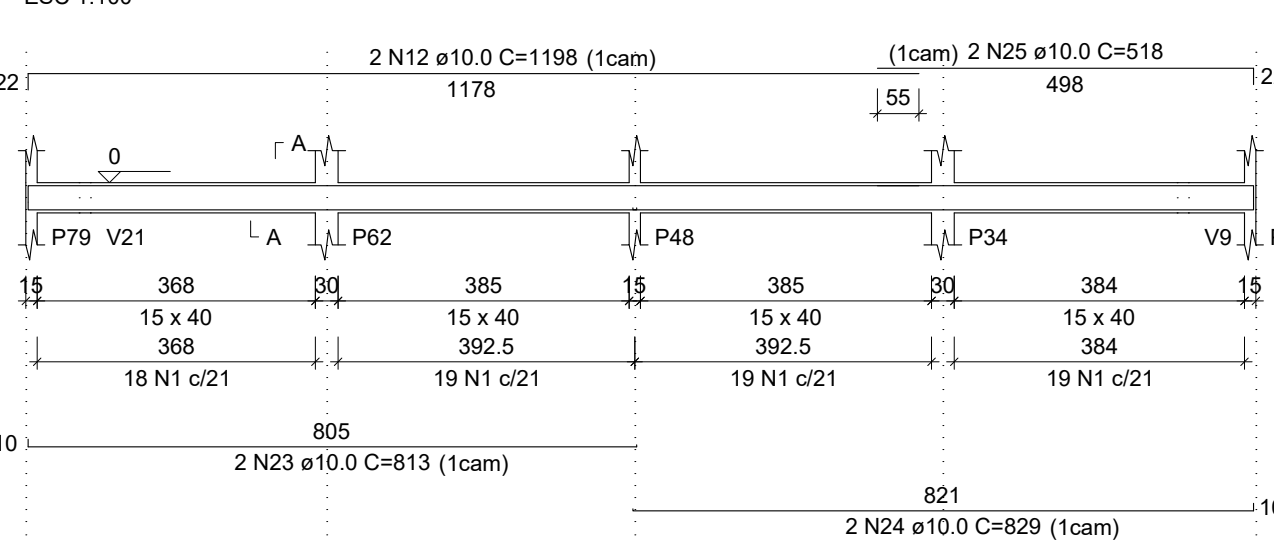
V48 (15 x 40)



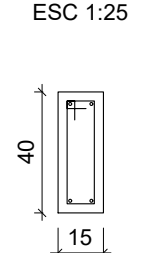
SEÇÃO A-A



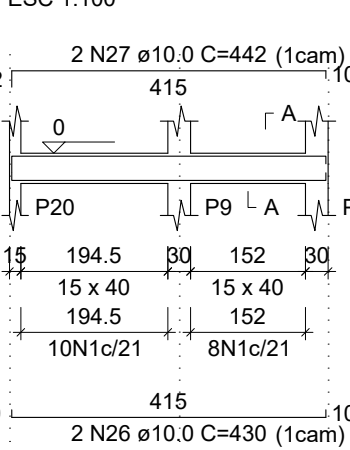
V49 (15 x 40)



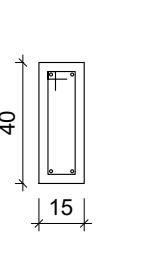
SEÇÃO A-A



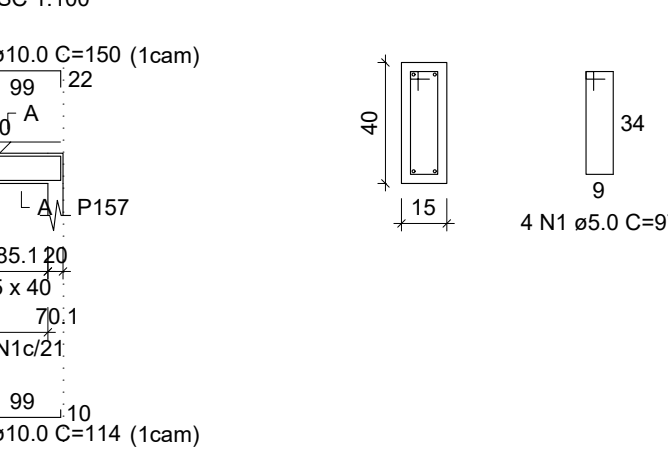
V50 (15 x 40)



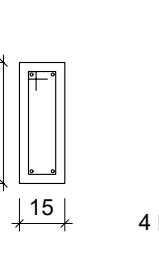
SEÇÃO A-A



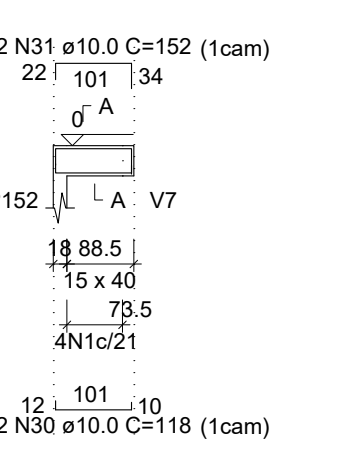
V51 (15 x 40)



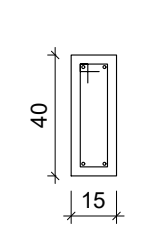
SEÇÃO A-A



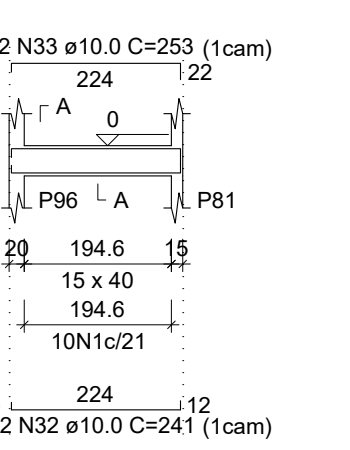
V52 (15 x 40)



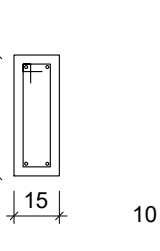
SEÇÃO A-A



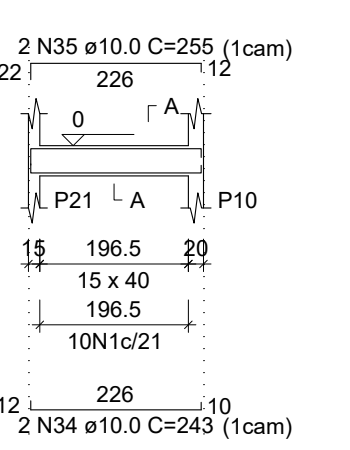
V53 (15 x 40)



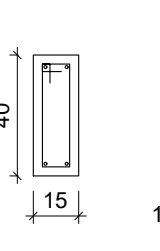
SEÇÃO A-A



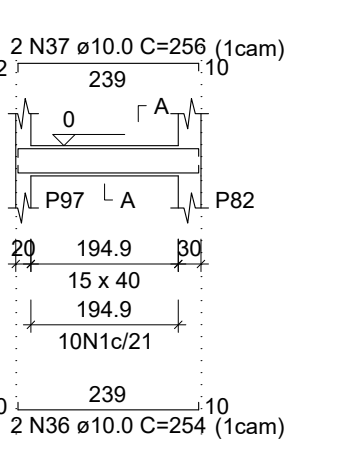
V54 (15 x 40)



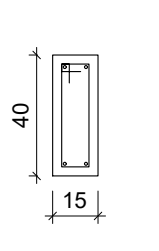
SEÇÃO A-A



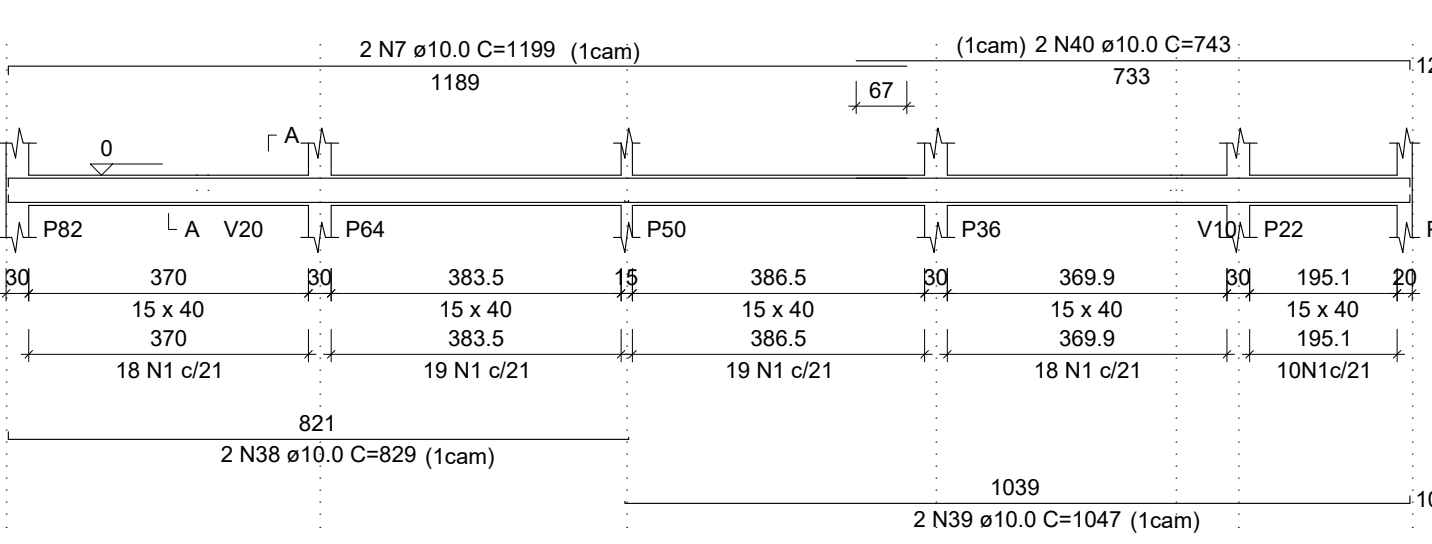
V55 (15 x 40)



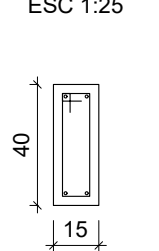
SEÇÃO A-A



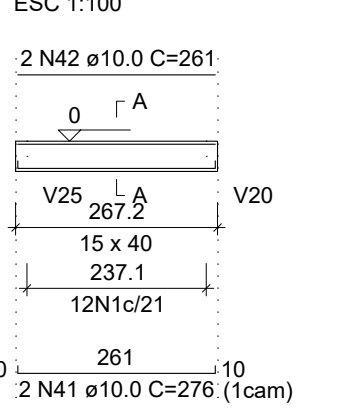
V56 (15 x 40)



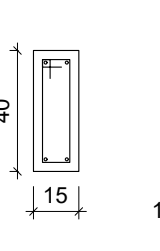
SEÇÃO A-A



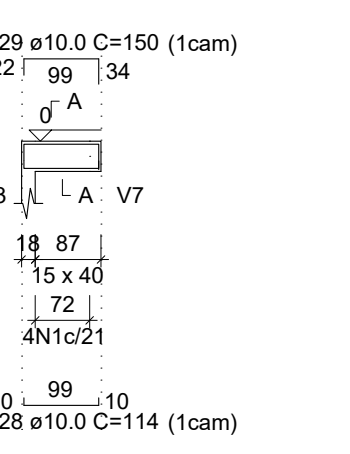
V57 (15 x 40)



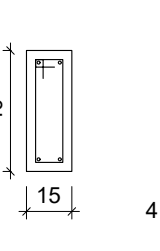
SEÇÃO A-A



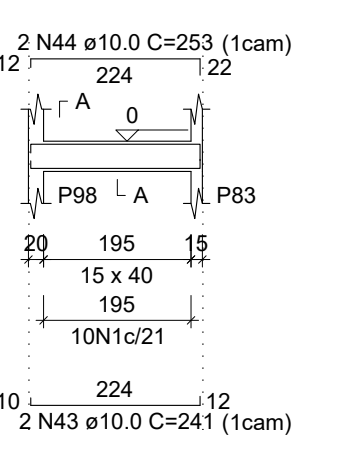
V58 (15 x 40)



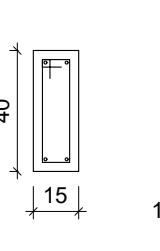
SEÇÃO A-A



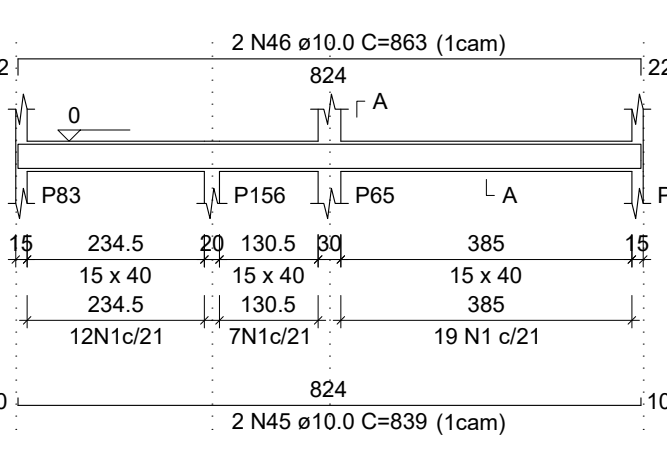
V59 (15 x 40)



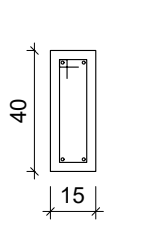
SEÇÃO A-A



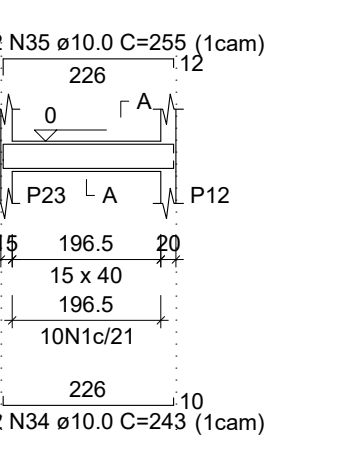
V60 (15 x 40)



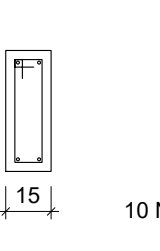
SEÇÃO A-A



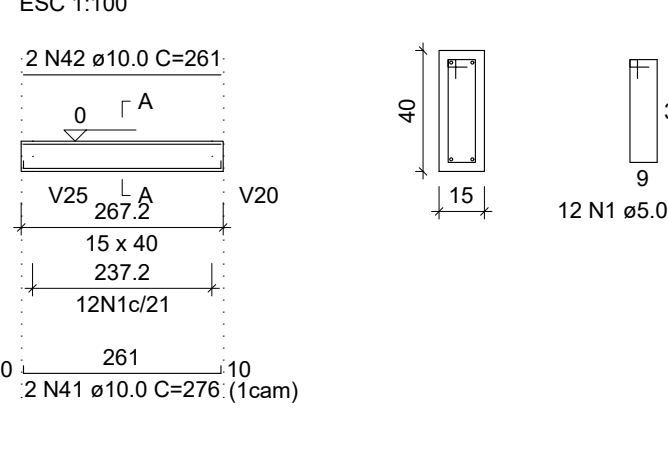
V61 (15 x 40)



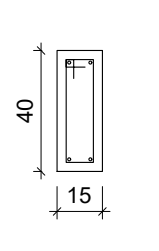
SEÇÃO A-A



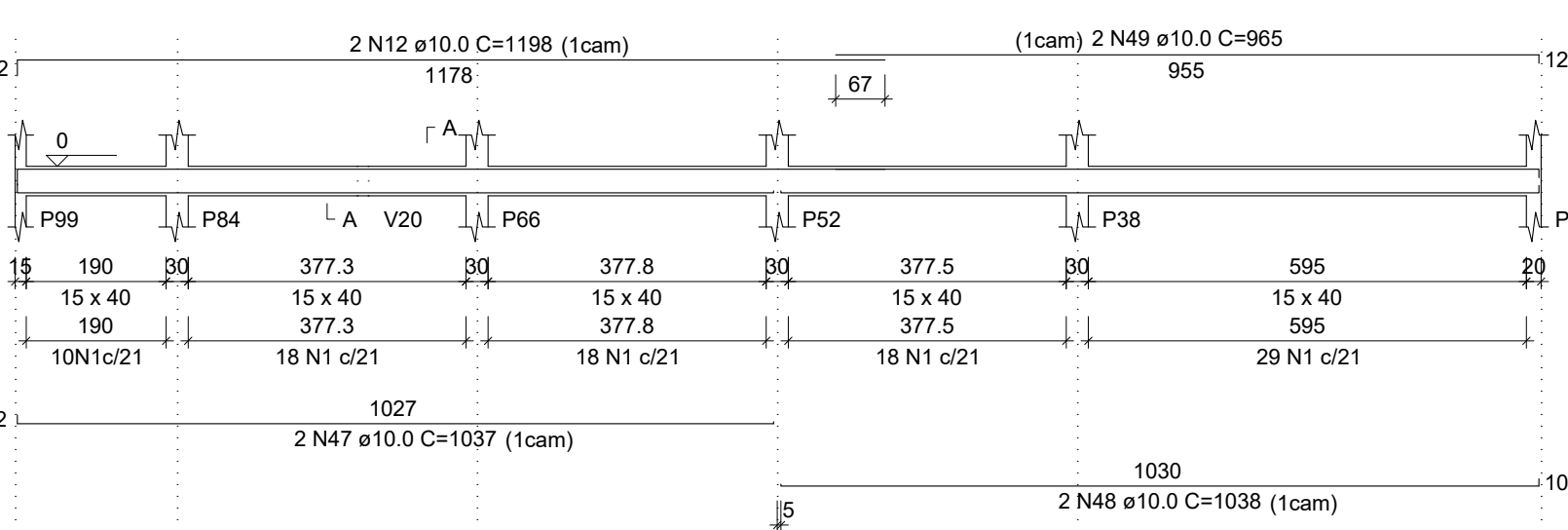
V62 (15 x 40)



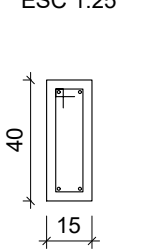
SEÇÃO A-A



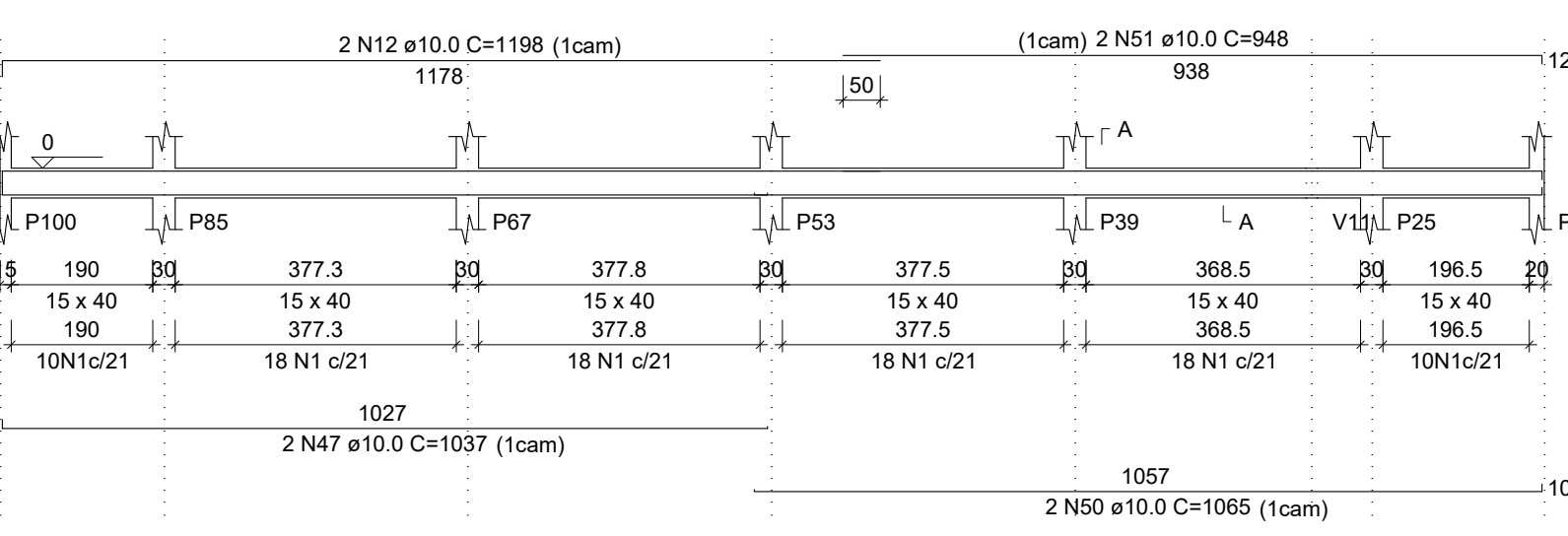
V63 (15 x 40)



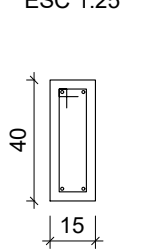
SEÇÃO A-A



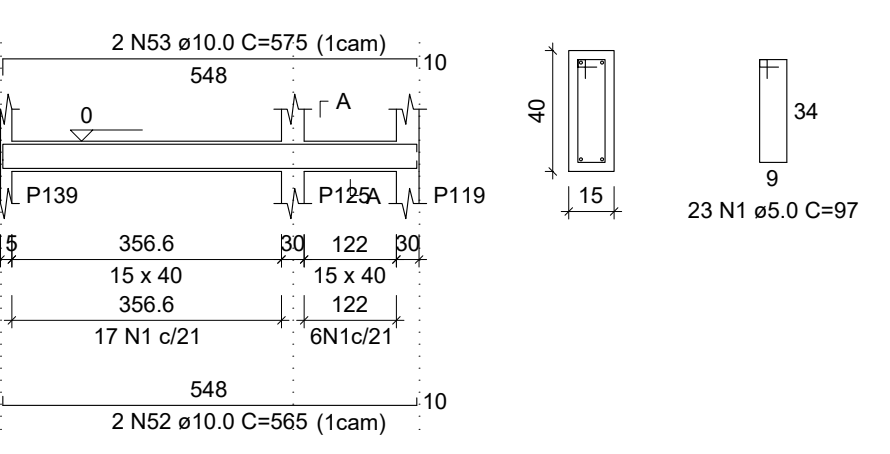
V64 (15 x 40)



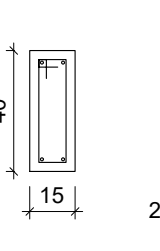
SEÇÃO A-A



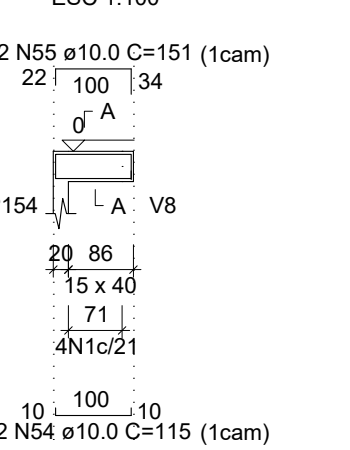
V65 (15 x 40)



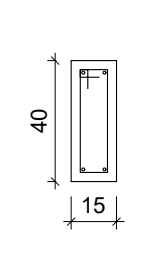
SEÇÃO A-A



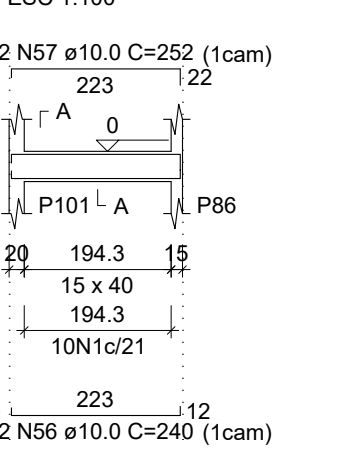
V66 (15 x 40)



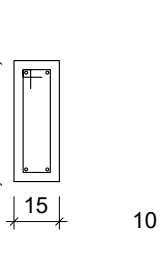
SEÇÃO A-A



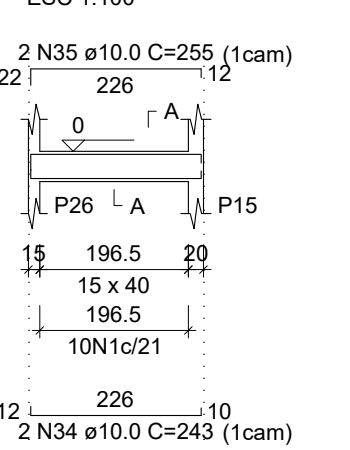
V67 (15 x 40)



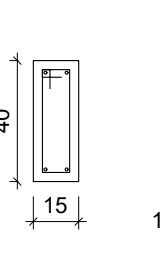
SEÇÃO A-A



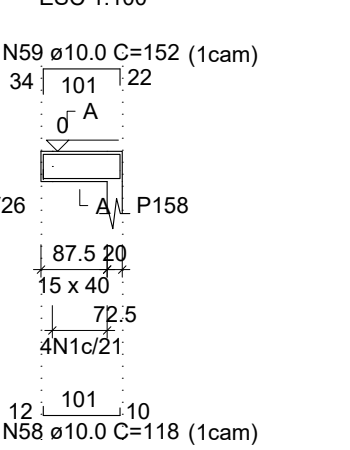
V68 (15 x 40)



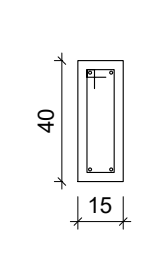
SEÇÃO A-A



V69 (15 x 40)



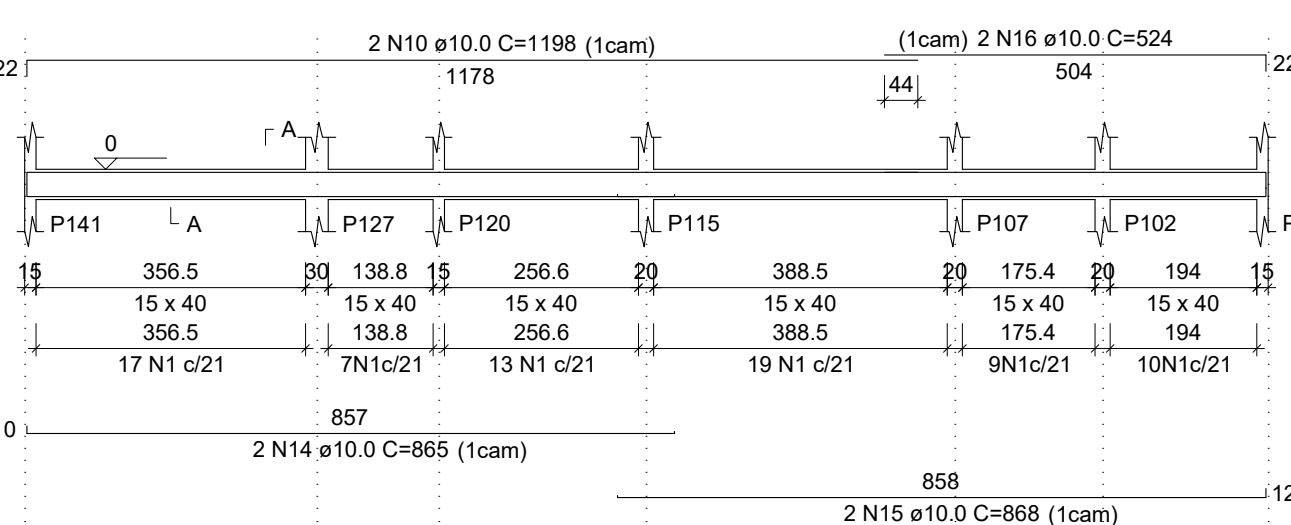
SEÇÃO A-A



RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V43	1	5.0	1002	97	97194
V44	2	6.3	4	307	1228
V45	3	10.0	2	1077	2154
V46	4	10.0	2	1081	2162
V47	5	10.0	2	835	1670
V48	6	10.0	2	830	1660
V49	7	10.0	4	1199	4796
V50	8	10.0	2	519	1038
V51	9	10.0	2	815	1630
V52	10	10.0	2	821	1642
V53	11	10.0	2	422	844
V54	12	10.0	14	1198	16772
V55	13	10.0	2	913	1826
V56	14	10.0	4	823	3292
V57	15	10.0	2	530	1060
V58	16	10.0	2	806	1612
V59	17	10.0	2	806	1612
V60	18	10.0	2	413	826
V61	19	10.0	2	903	1806
V62	20	10.0	2	829	1658
V63	21	10.0	2	830	1660
V64	22	10.0	2	525	1050
V65	23	10.0	2	813	1626
V66	24	10.0	2	829	1658
V67	25	10.0	2	518	1036
V68	26	10.0	2	430	860
V69	27	10.0	2	442	884
	28	10.0	4	114	456
	29	10.0	4	150	600
	30	10.0	2	118	236
	31	10.0	2	152	304
	32	10.0	2	241	482
	33	10.0	2	253	506
	34	10.0	6	243	1458
	35	10.0	6	255	1530
	36	10.0	2	254	508
	37	10.0	2	256	512
	38	10.0	2	829	1658
	39	10.0	2	1047	2094
	40	10.0	2	743	1486
	41	10.0	4	276	1104
	42	10.0	4	261	1044
	43	10.0	2	241	482
	44	10.0	2	253	506
	45	10.0	2	839	1678
	46	10.0	2	863	1726
	47	10.0	4	1037	4148
	48	10.0	2	1038	2076
	49	10.0	2	965	1930
	50	10.0	2	1065	2130
	51	10.0	2	948	1896
	52	10.0	2	565	1130
	53	10.0	2	575	1150
	54	10.0	2	115	230
	55	10.0	2	151	302
	56	10.0	2	240	480
	57	10.0	2	252	504
	58	10.0	2	118	236
	59	10.0	2	152	304

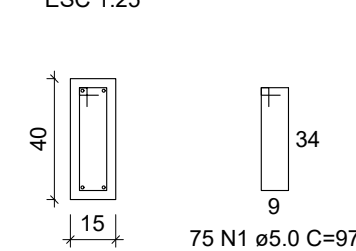
RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	12.3	3</

V70 (15 x 40)

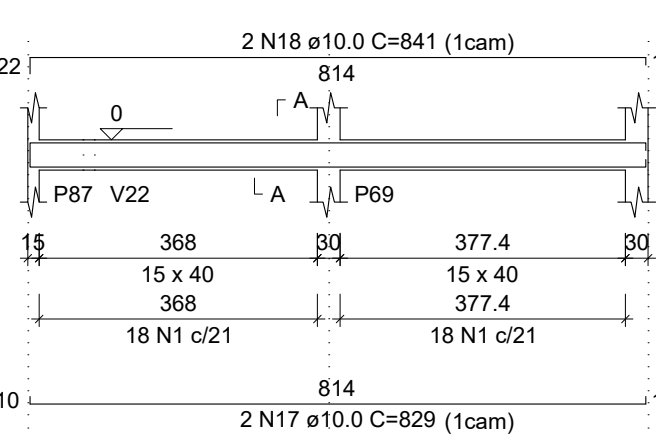


SEÇÃO A-A

ESC 1:25

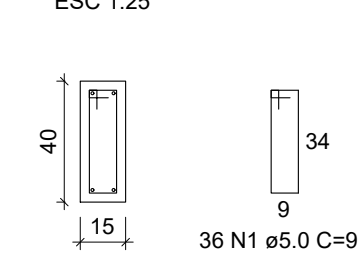


V71 (15 x 40)

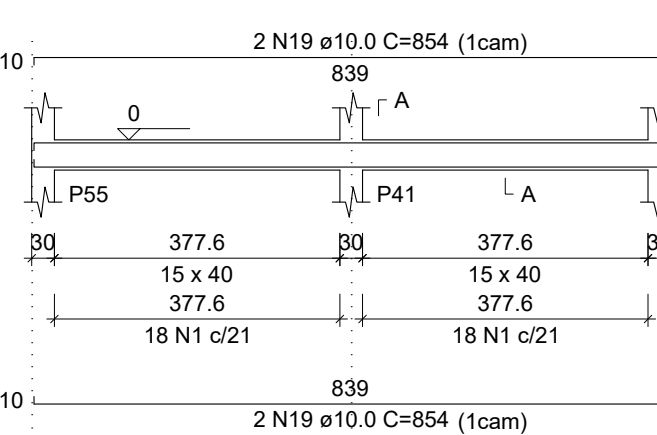


SEÇÃO A-A

ESC 1:25

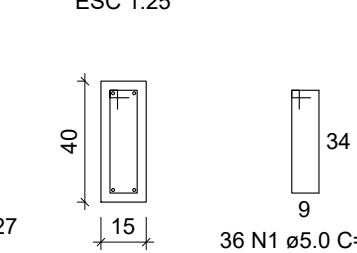


V72 (15 x 40)

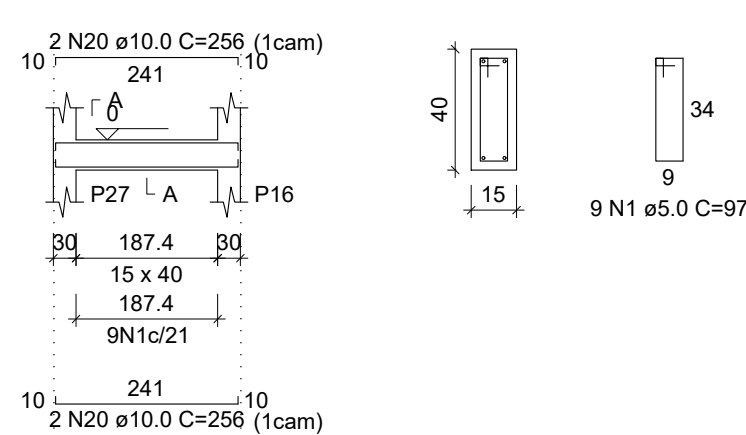


SEÇÃO A-A

ESC 1:25

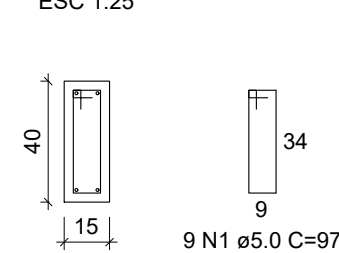


V73 (15 x 40)

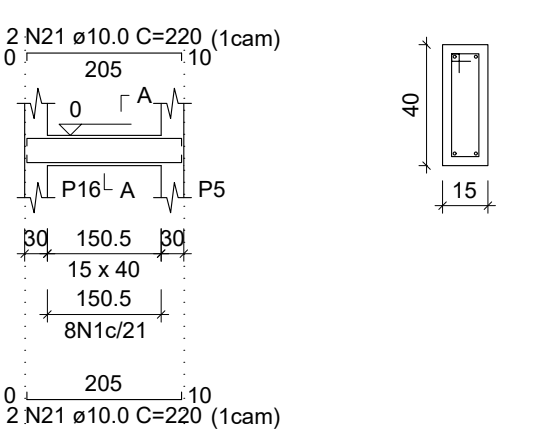


SEÇÃO A-A

ESC 1:25

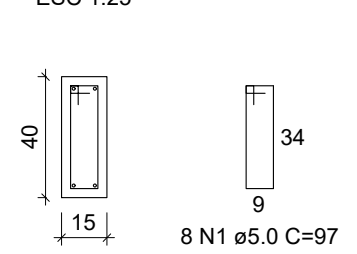


V74 (15 x 40)

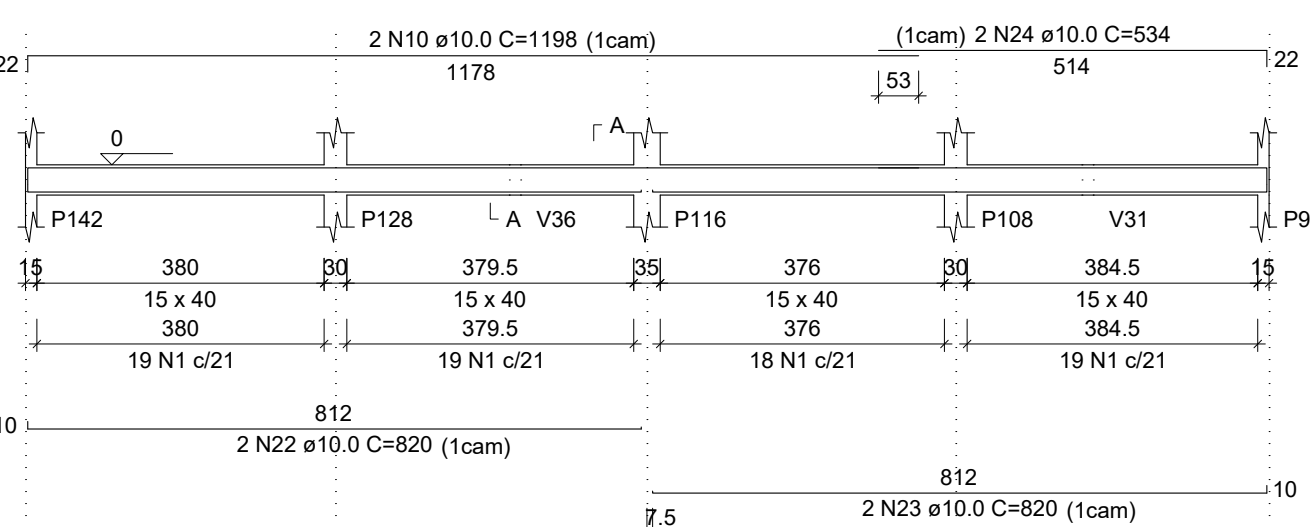


SEÇÃO A-A

ESC 1:25

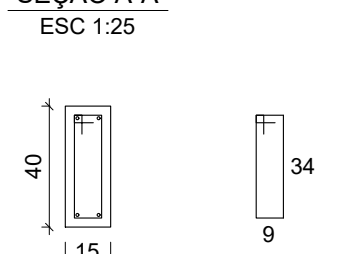


V75 (15 x 40)

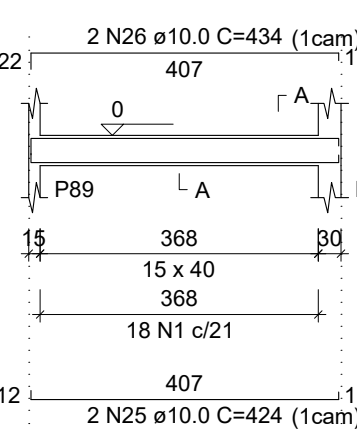


SEÇÃO A-A

ESC 1:25

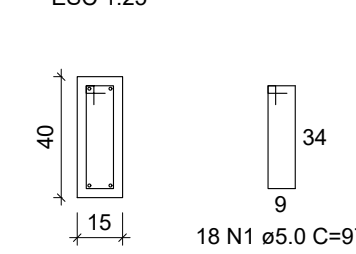


V76 (15 x 40)

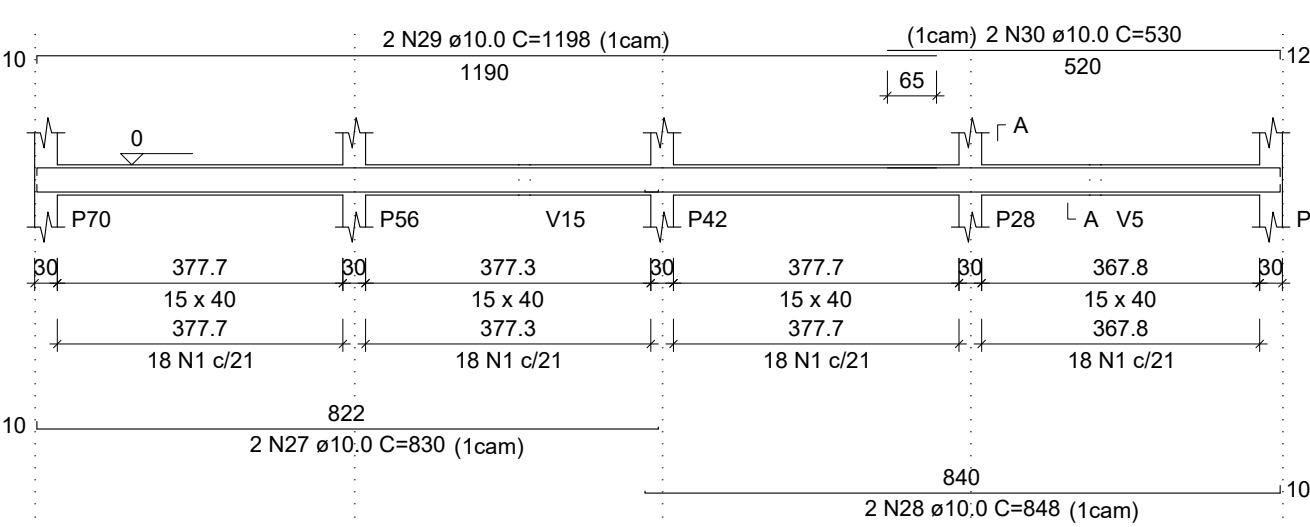


SEÇÃO A-A

ESC 1:25

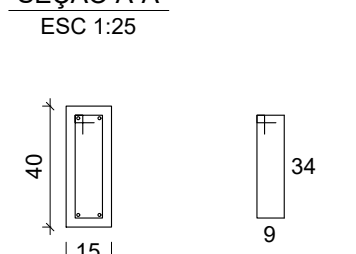


V77 (15 x 40)

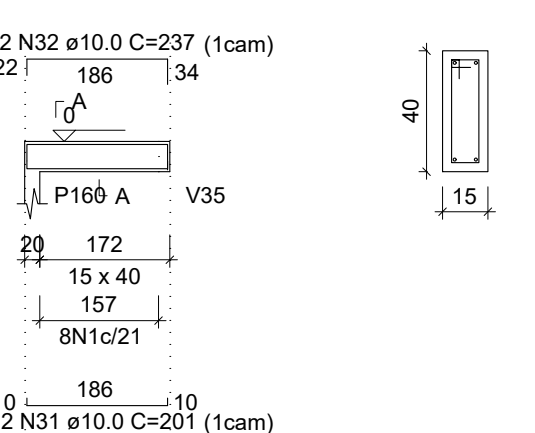


SEÇÃO A-A

ESC 1:25

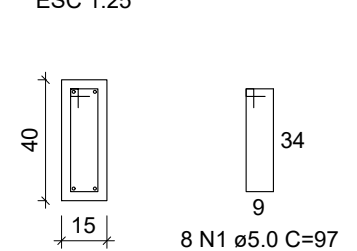


V78 (15 x 40)

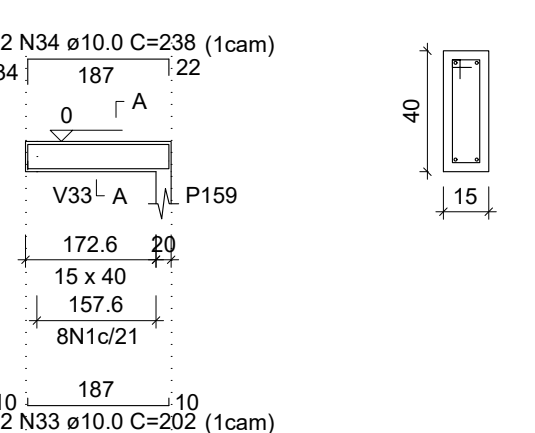


SEÇÃO A-A

ESC 1:25

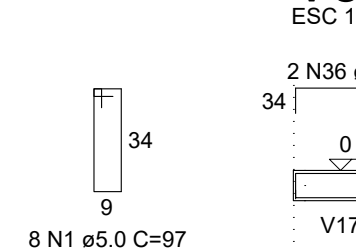


V79 (15 x 40)

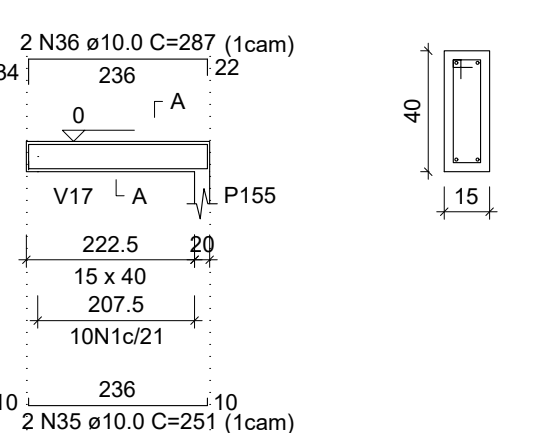


SEÇÃO A-A

ESC 1:25

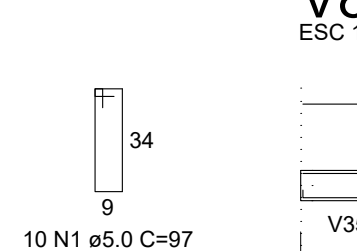


V80 (15 x 40)

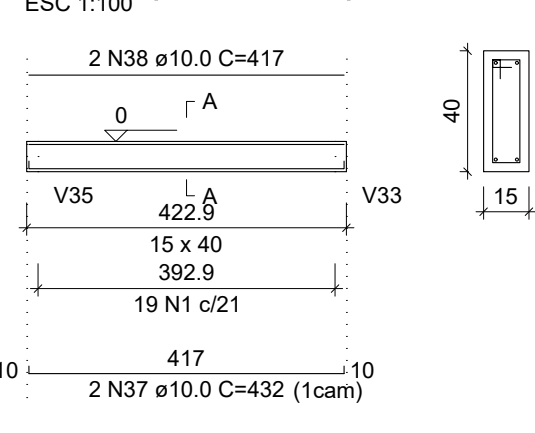


SEÇÃO A-A

ESC 1:25

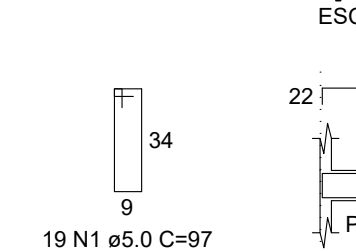


V81 (15 x 40)

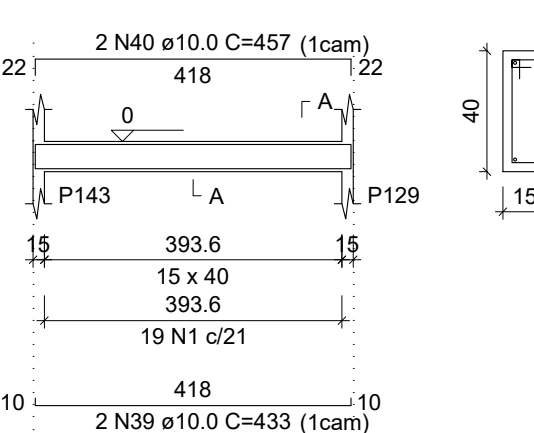


SEÇÃO A-A

ESC 1:25

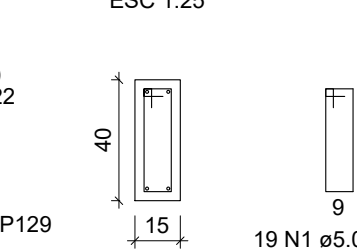


V82 (15 x 40)

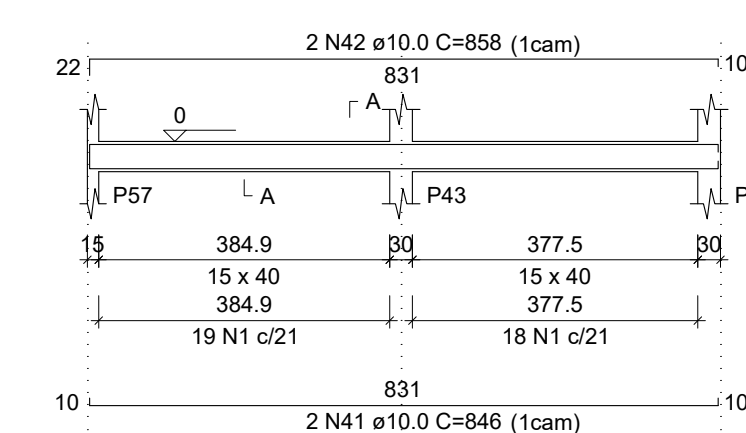


SEÇÃO A-A

ESC 1:25

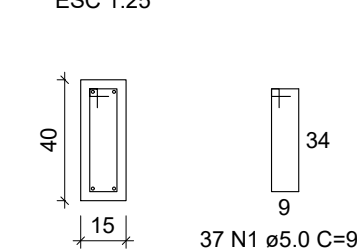


V83 (15 x 40)

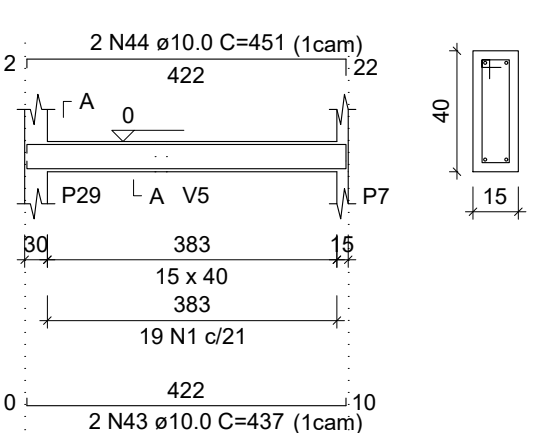


SEÇÃO A-A

ESC 1:25

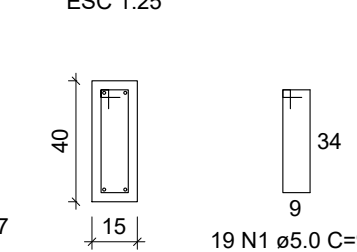


V84 (15 x 40)

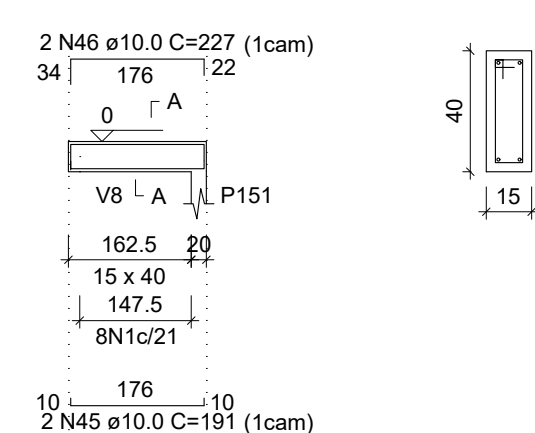


SEÇÃO A-A

ESC 1:25

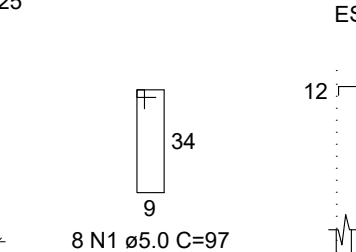


V85 (15 x 40)

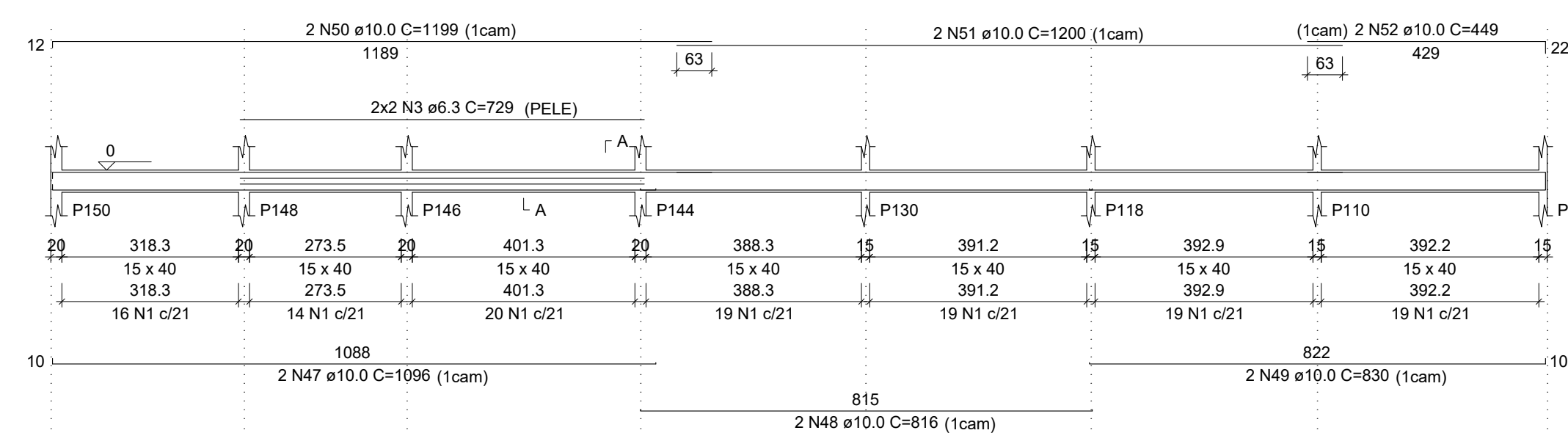


SEÇÃO A-A

ESC 1:25

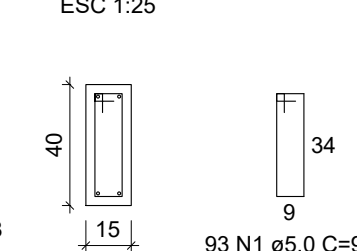


V86 (15 x 40)

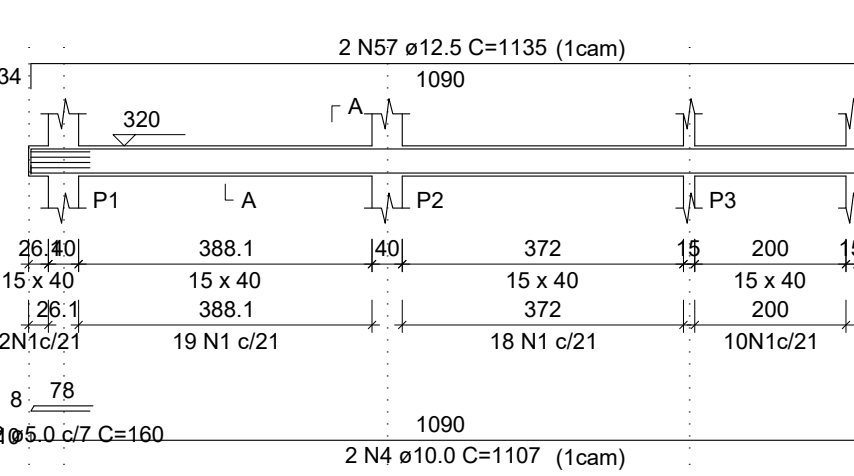


SEÇÃO A-A

ESC 1:25

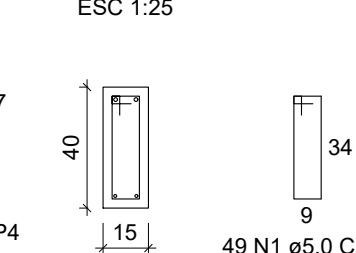


V1 (15 x 40)

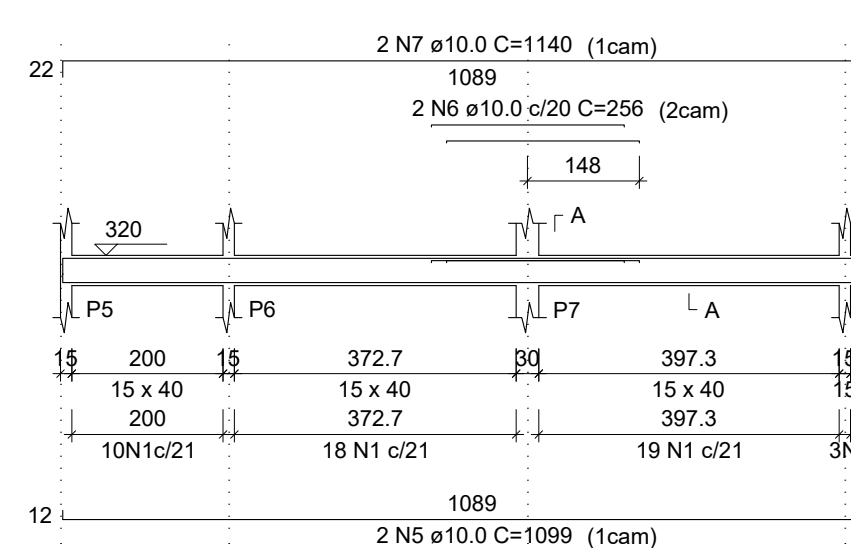


SEÇÃO A-A

ESC 1:25

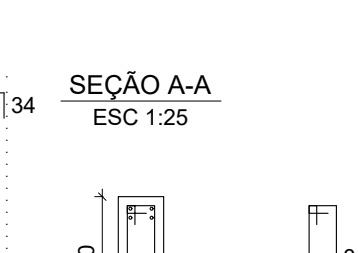


V2 (15 x 40)

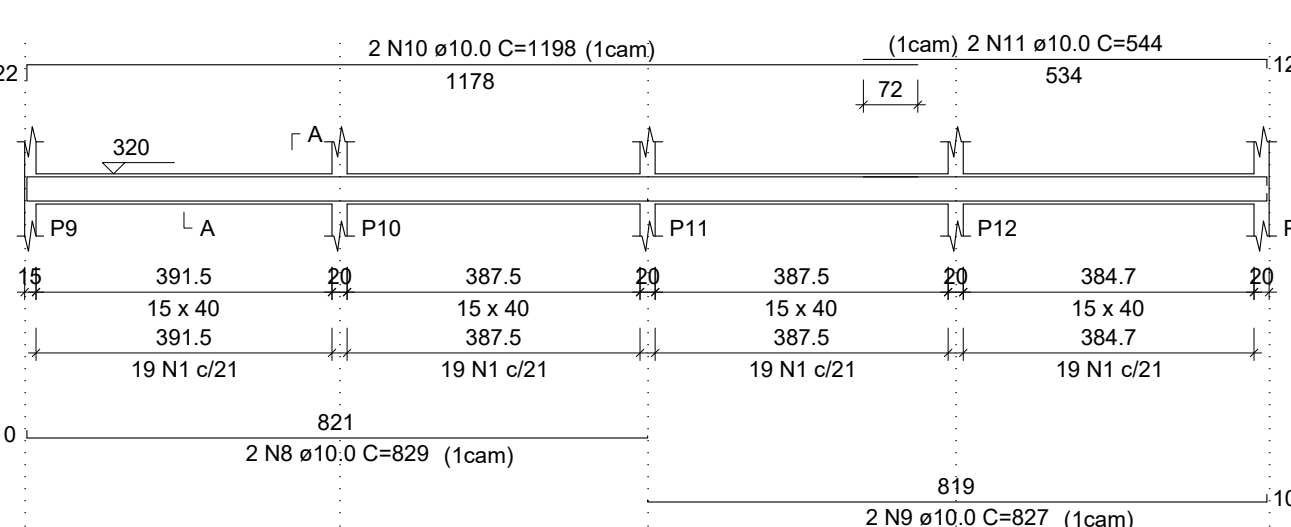


SEÇÃO A-A

ESC 1:25

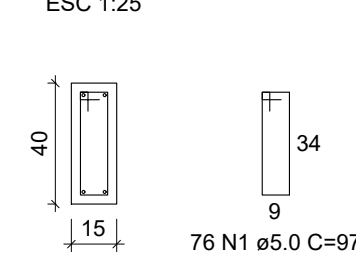


V3 (15 x 40)

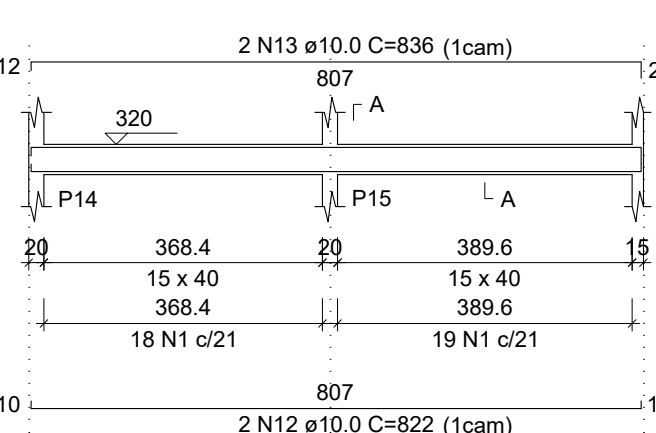


SEÇÃO A-A

ESC 1:25

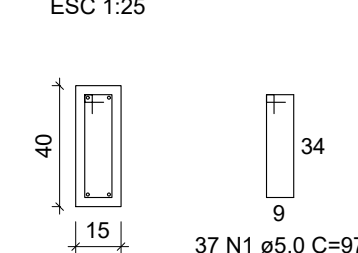


V4 (15 x 40)



SEÇÃO A-A

ESC 1:25



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C-UNIT (cm)	C-TOTAL (cm)
V1-L2	1	5.0	888	97	86136
V4-L2	2	5.0	4	160	640
V70-L1	3	5.3	4	729	2916
V72-L1	4	10.0	2	1107	2214
V75-L1	5	10.0	2	1099	2198
V78-L1	6	10.0	2	256	512
V81-L1	7	10.0	2	1140	2280
V84-L1	8	10.0	2	829	1658
V87-L1	9	10.0	2	827	1654
	10	10.0	8	1198	9584
	11	10.0	2	544	1088
	12	10.0	2	822	1644
	13	10.0	2	836	1672
	14	10.0	2	865	1730
	15	10.0	2	868	1736
	16	10.0	2	524	1048
	17	10.0	2	829	1658
	18	10.0	2	841	1682
	19	10.0	4	854	3416
	20	10.0	2	256	512
	21	10.0	4	220	880
	22	10.0	2	820	1640
	23	10.0	2	820	1640
	24	10.0	2	534	1068
	25	10.0	2	424	848
	26	10.0	2	434	868
	27	10.0	2	830	1660
	28	10.0	2	848	1696
	29	10.0	2	1198	2396
	30	10.0	2	530	1060
	31	10.0	2	201	402
	32	10.0	2	237	474
	33	10.0	2	202	404
	34	10.0	2	238	476
	35	10.0	2	251	502
	36	10.0	2	287	574
	37	10.0	2	432	864
	38	10.0	2	417	834
	39	10.0	2	433	866
	40	10.0	2	457	914
	41	10.0	2	846	1692
	42	10.0	2	858	1716
	43	10.0	2	437	874
	44	10.0	2	451	902
	45	10.0	2	191	382
	46	10.0	2	227	454
	47	10.0	2	1096	2192
	48	10.0	2	816	1632
	49	10.0	2	830	1660
	50	10.0	2	1199	2398
	51	10.0	2	1200	2400
	52	10.0	2	449	898
	53	10.0	2	813	1626
	54	10.0	2	821	1642
	55	10.0	2	422	844
	56	10.0	2	905	1810
	57	12.5	2	1135	2270

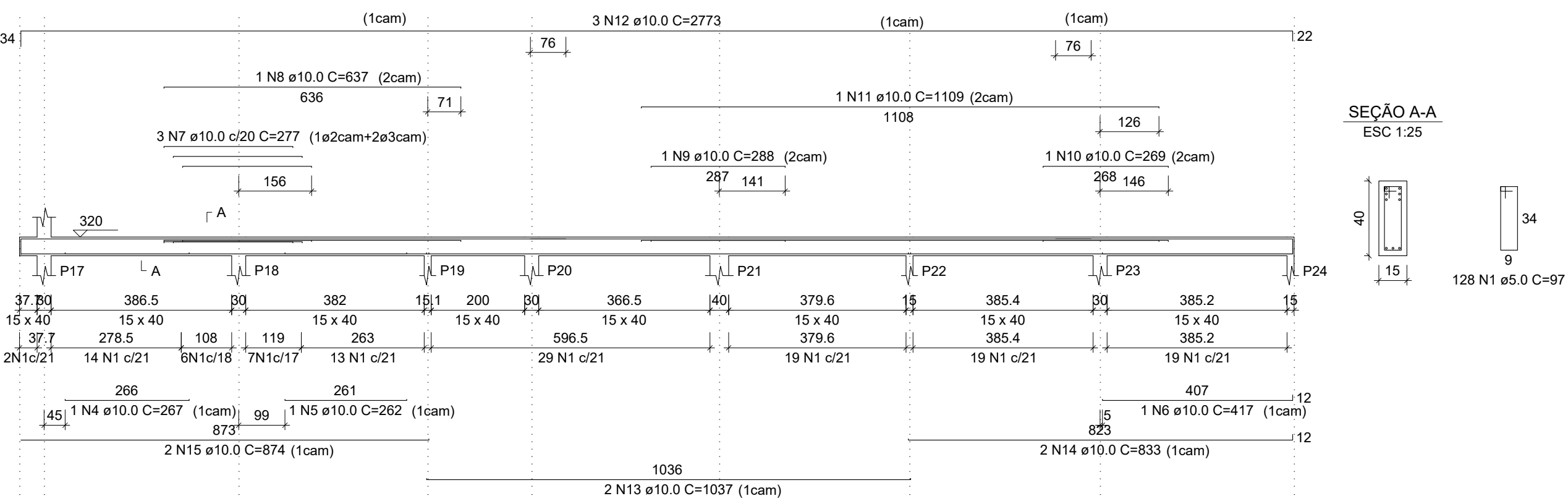
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	29.2	7.1
	10.0	799.9	493.1
	12.5	22.7	21.9
CA60	5.0	867.8	133.8
PESO TOTAL (kg)			
CA50		522.1	
CA60		133.8	

Volume de concreto (C-25) = 11.87 m³
Área de forma = 187.92 m²

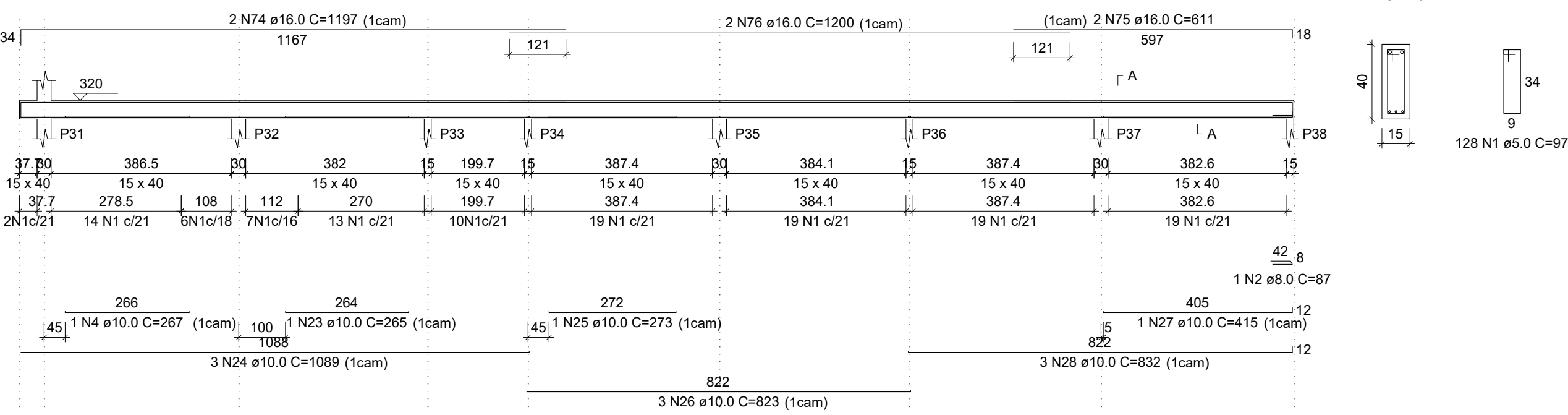
V5 (15 x 40)

ESC 1:100



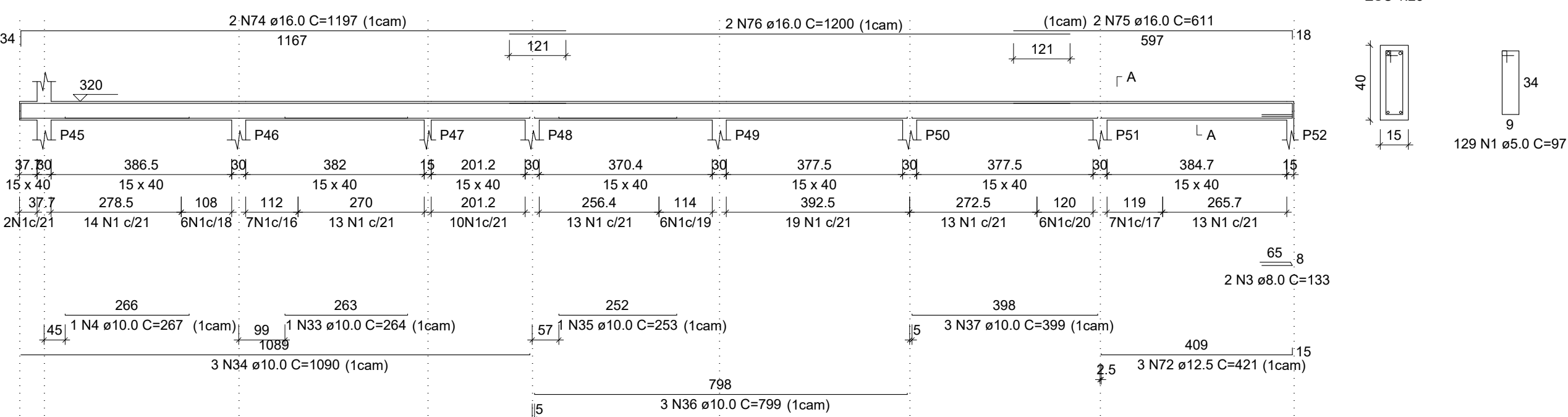
V7 (15 x 40)

ESC 1:100



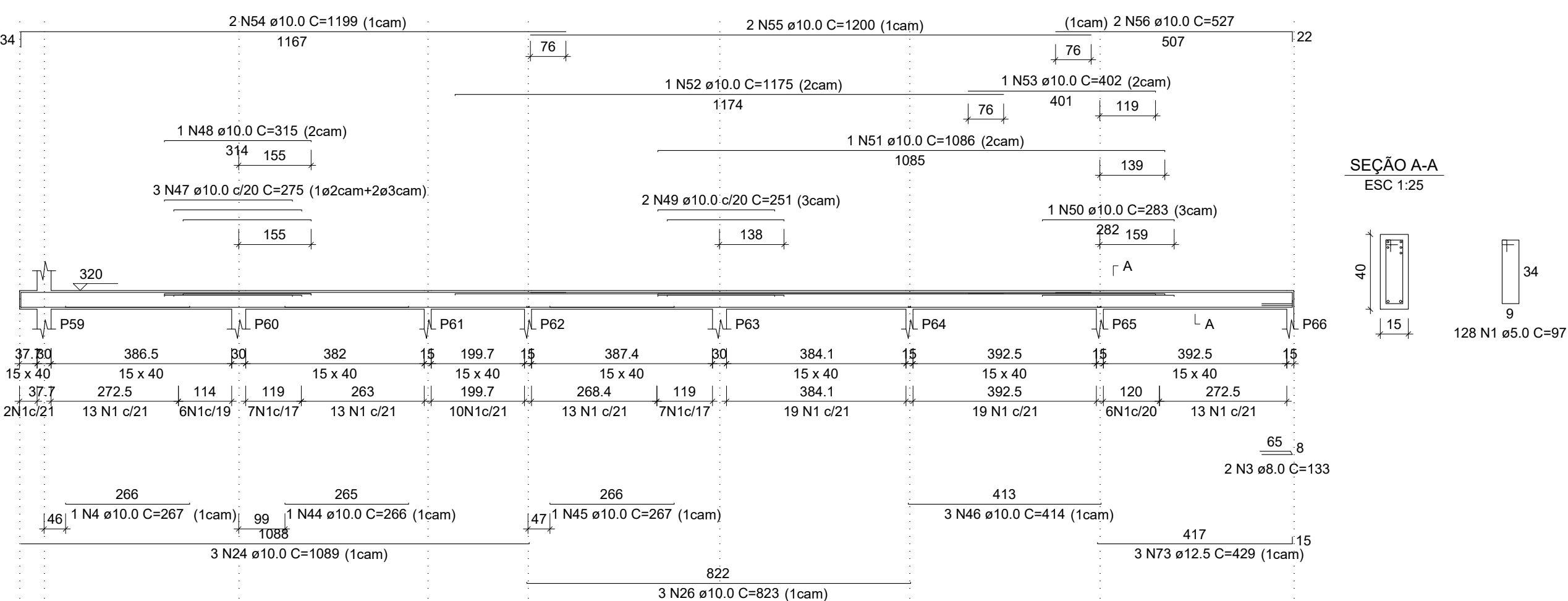
V9 (15 x 40)

ESC 1:100



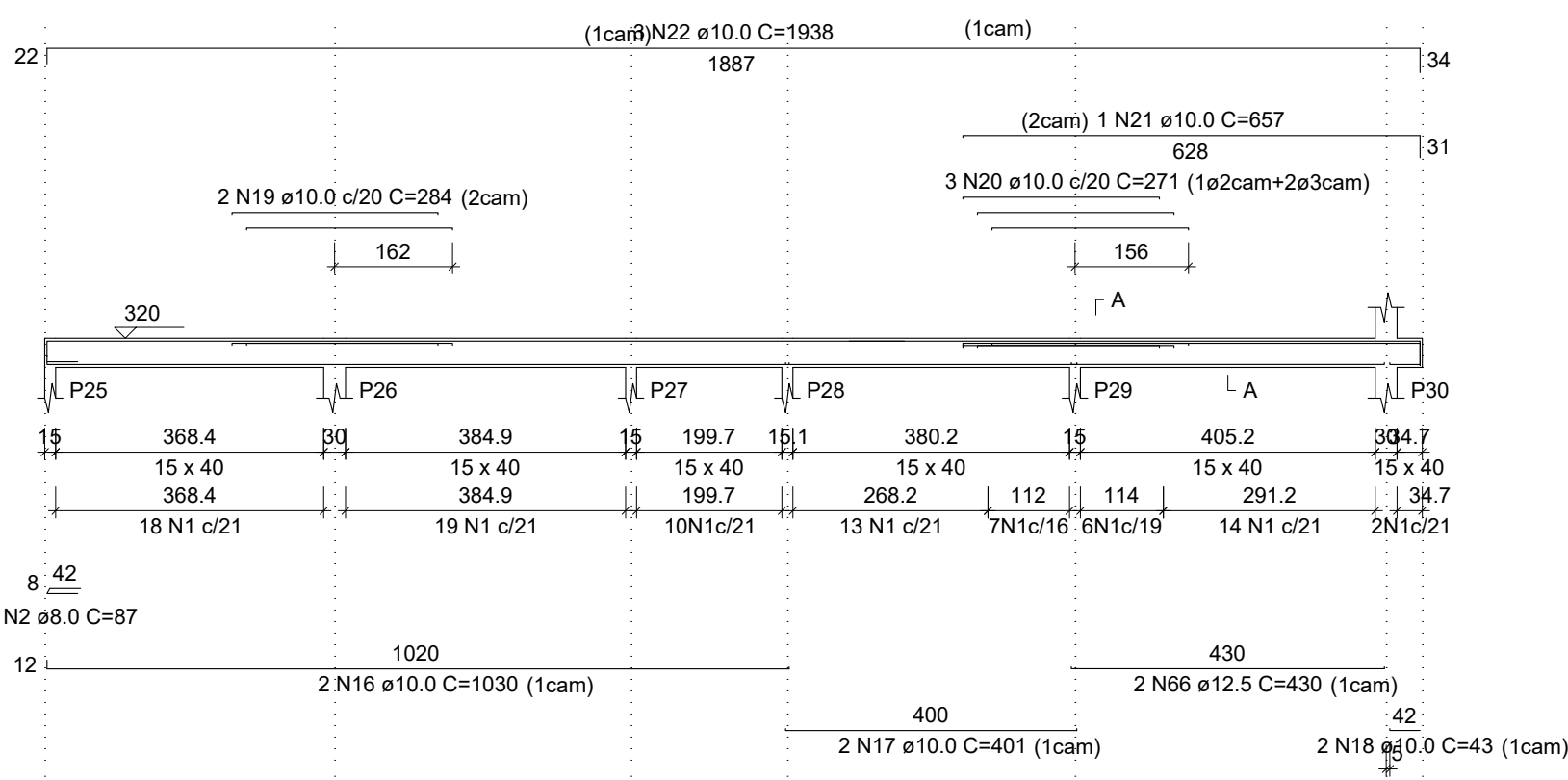
V11 (15 x 40)

ESC 1:100



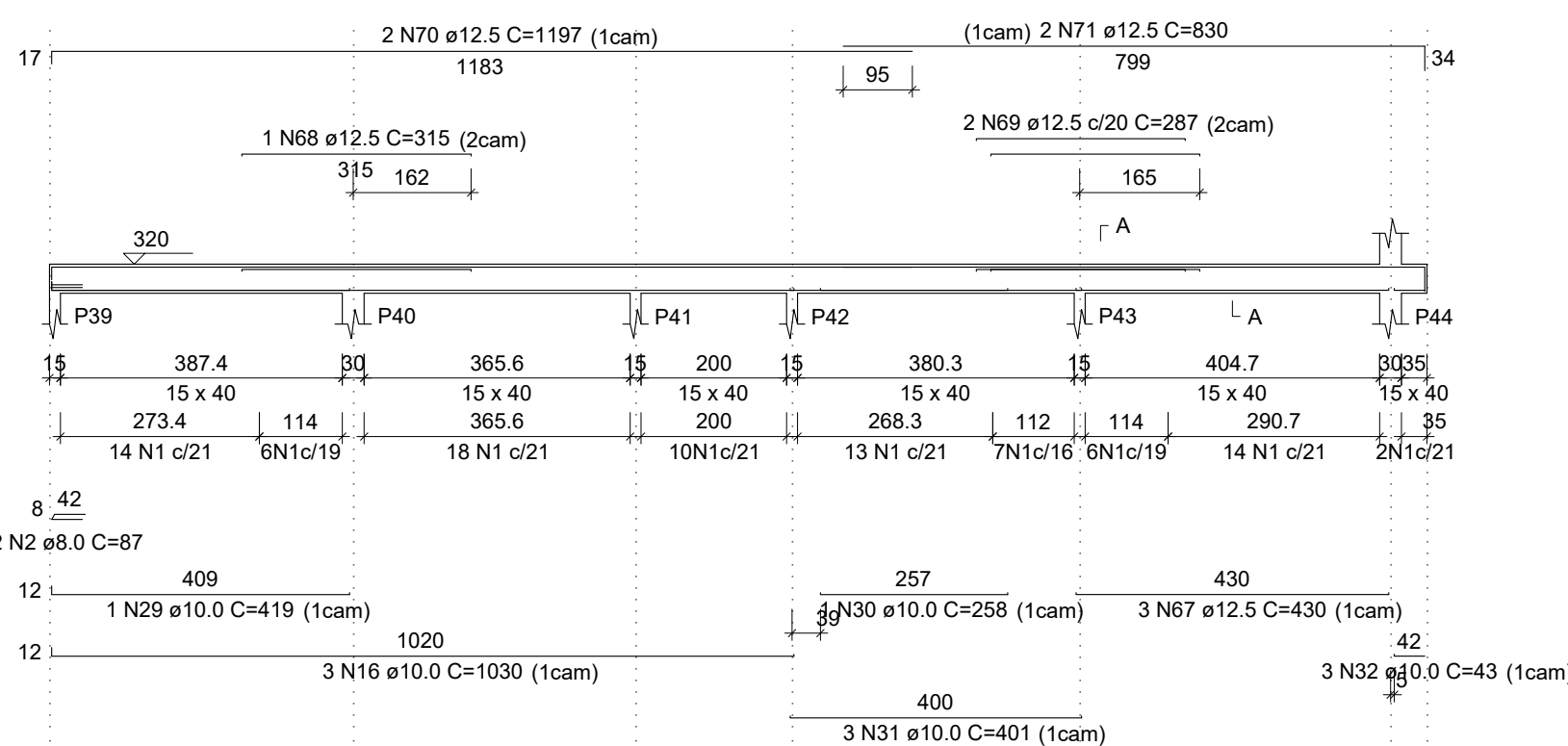
V6 (15 x 40)

ESC 1:100



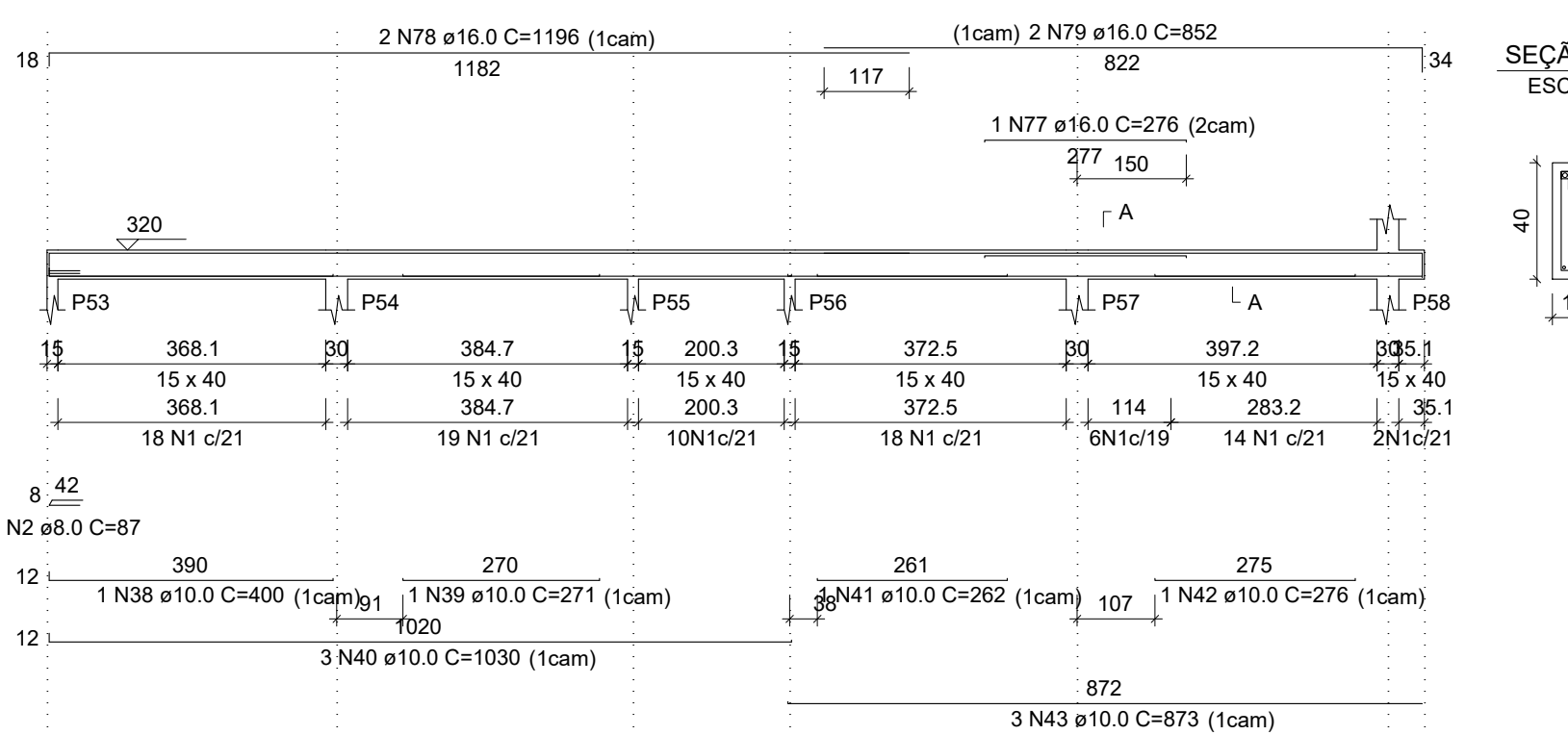
V8 (15 x 40)

ESC 1:100



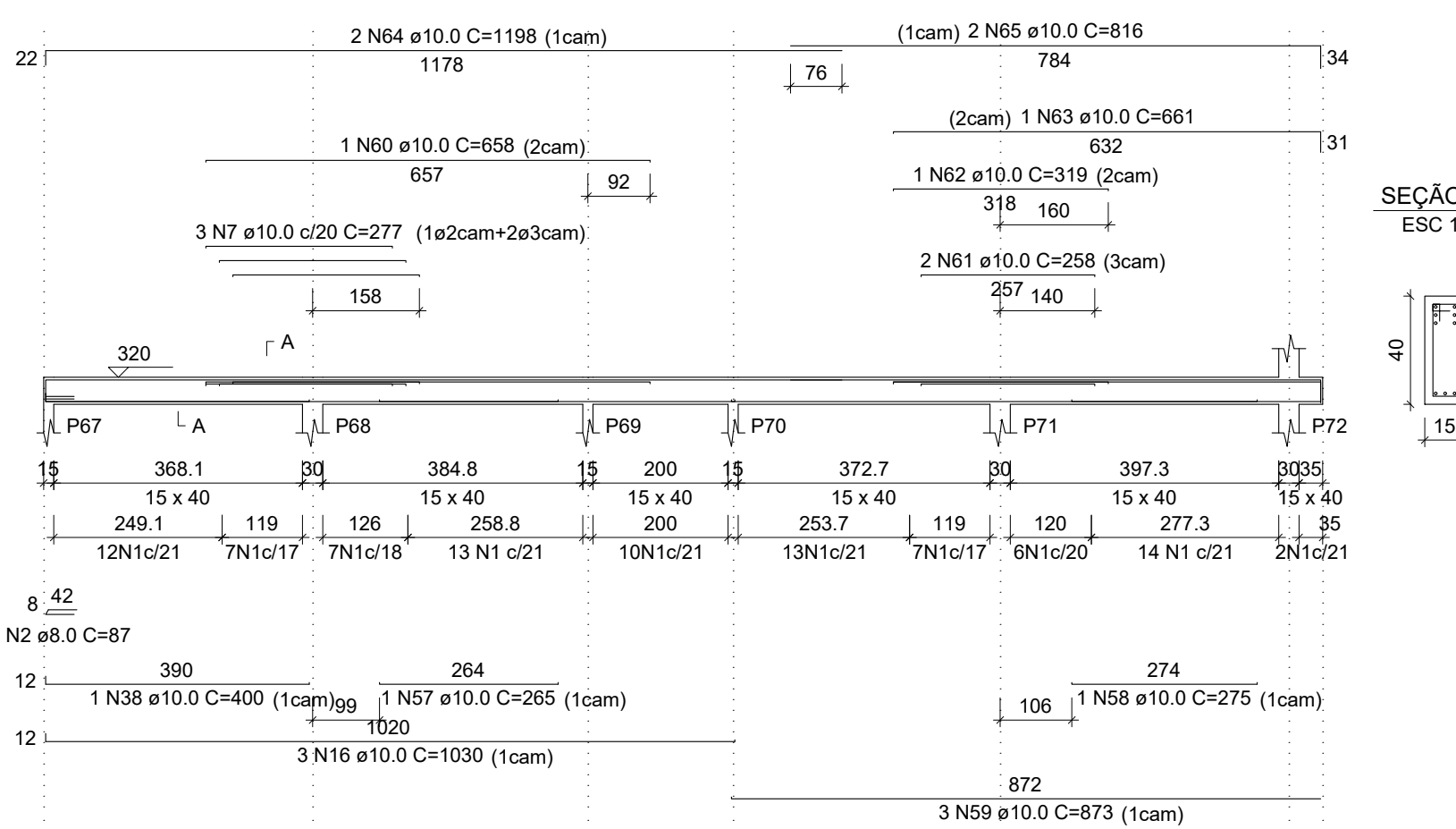
V10 (15 x 40)

ESC 1:100



V12 (15 x 40)

ESC 1:100



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	870	97	84390
CA50	2	8.0	8	87	696
	3	8.0	4	133	532
	4	10.0	4	267	1068
	5	10.0	1	262	262
	6	10.0	1	417	417
	7	10.0	6	277	1662
	8	10.0	1	637	637
	9	10.0	1	288	288
	10	10.0	3	289	289
	11	10.0	1	1109	1109
	12	10.0	3	2773	8319
	13	10.0	2	1037	2074
	14	10.0	2	833	1666
	15	10.0	2	874	1748
	16	10.0	8	1030	8240
	17	10.0	2	401	802
	18	10.0	2	43	86
	19	10.0	2	284	568
	20	10.0	3	271	813
	21	10.0	1	657	657
	22	10.0	3	1938	5814
	23	10.0	1	265	265
	24	10.0	6	1089	6534
	25	10.0	1	273	273
	26	10.0	6	823	4938
	27	10.0	1	415	415
	28	10.0	3	832	2496
	29	10.0	1	419	419
	30	10.0	1	258	258
	31	10.0	3	401	1203
	32	10.0	3	43	129
	33	10.0	1	264	264
	34	10.0	3	1090	3270
	35	10.0	1	253	253
	36	10.0	3	799	2397
	37	10.0	3	399	1197
	38	10.0	2	400	800
	39	10.0	1	271	271
	40	10.0	3	1030	3090
	41	10.0	1	262	262
	42	10.0	1	276	276
	43	10.0	3	873	2619
	44	10.0	1	266	266
	45	10.0	1	267	267
	46	10.0	3	414	1242
	47	10.0	3	275	825
	48	10.0	1	315	315
	49	10.0	2	251	502
	50	10.0	1	283	283
	51	10.0	1	1086	1086
	52	10.0	1	1175	1175
	53	10.0	1	402	402
	54	10.0	2	1199	2398
	55	10.0	2	1200	2400
	56	10.0	2	527	1054
	57	10.0	1	265	265
	58	10.0	1	275	275
	59	10.0	3	873	2619
	60	10.0	1	658	658
	61	10.0	2	258	516
	62	10.0	1	319	319
	63	10.0	1	661	661
	64	10.0	2	1198	2396
	65	10.0	2	816	1632
	66	12.5	2	430	860
	67	12.5	3	430	1290
	68	12.5	1	315	315
	69	12.5	2	287	574
	70	12.5	2	1197	2394
	71	12.5	2	830	1660
	72	12.5	3	421	1263
	73	12.5	3	429	1287
	74	16.0	4	1197	4788
	75	16.0	4	611	2444
	76	16.0	4	1200	4800
	77	16.0	1	276	276
	78	16.0	2	1196	2392
	79	16.0	2	852	1704

RESUMO DO AÇO

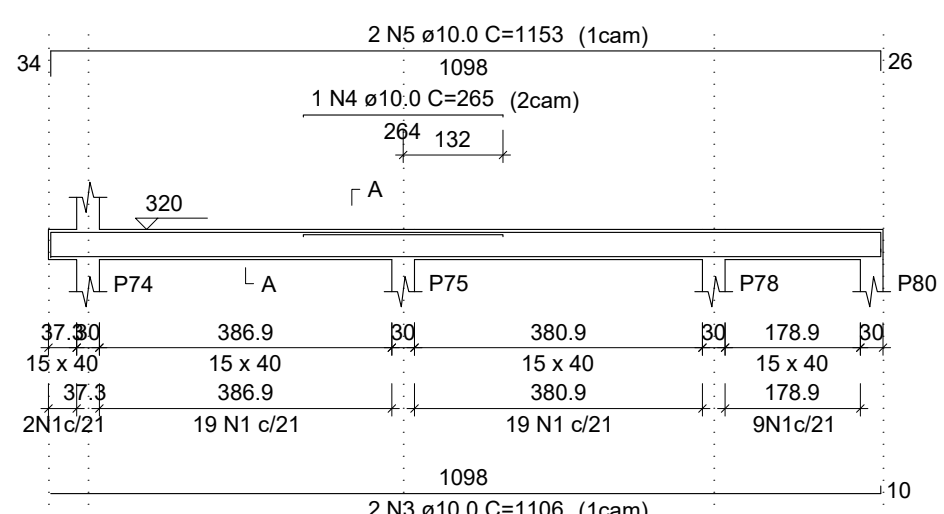
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	8.0	12.3	4.8
	10.0	896.8	552.9
	12.5	96.4	92.9
	16.0	164	258.9
CA60	5.0	843.9	130.1
PESO TOTAL (kg)			
CA50	909.6		
CA60	130.1		

Volume de concreto (C-25) = 11.09 m³

Área de forma = 175.58 m²

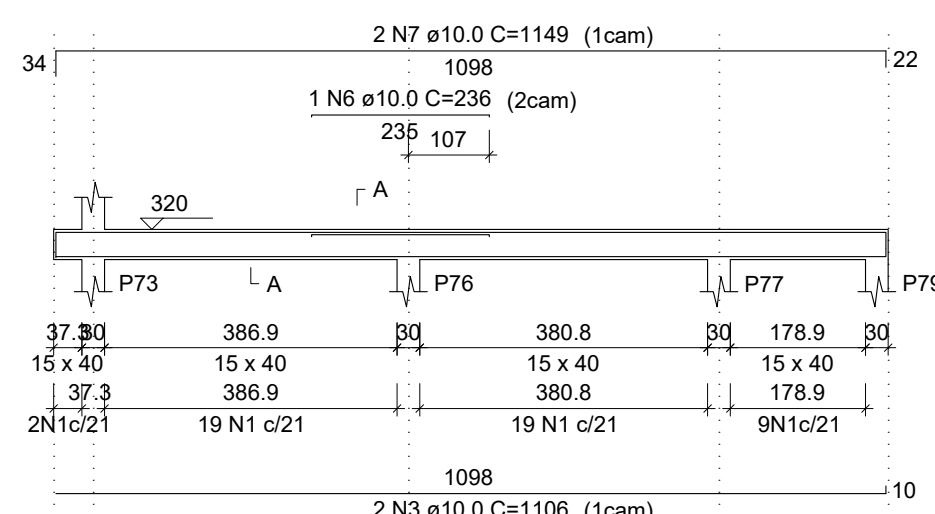
V13 (15 x 40)

ESC 1:100



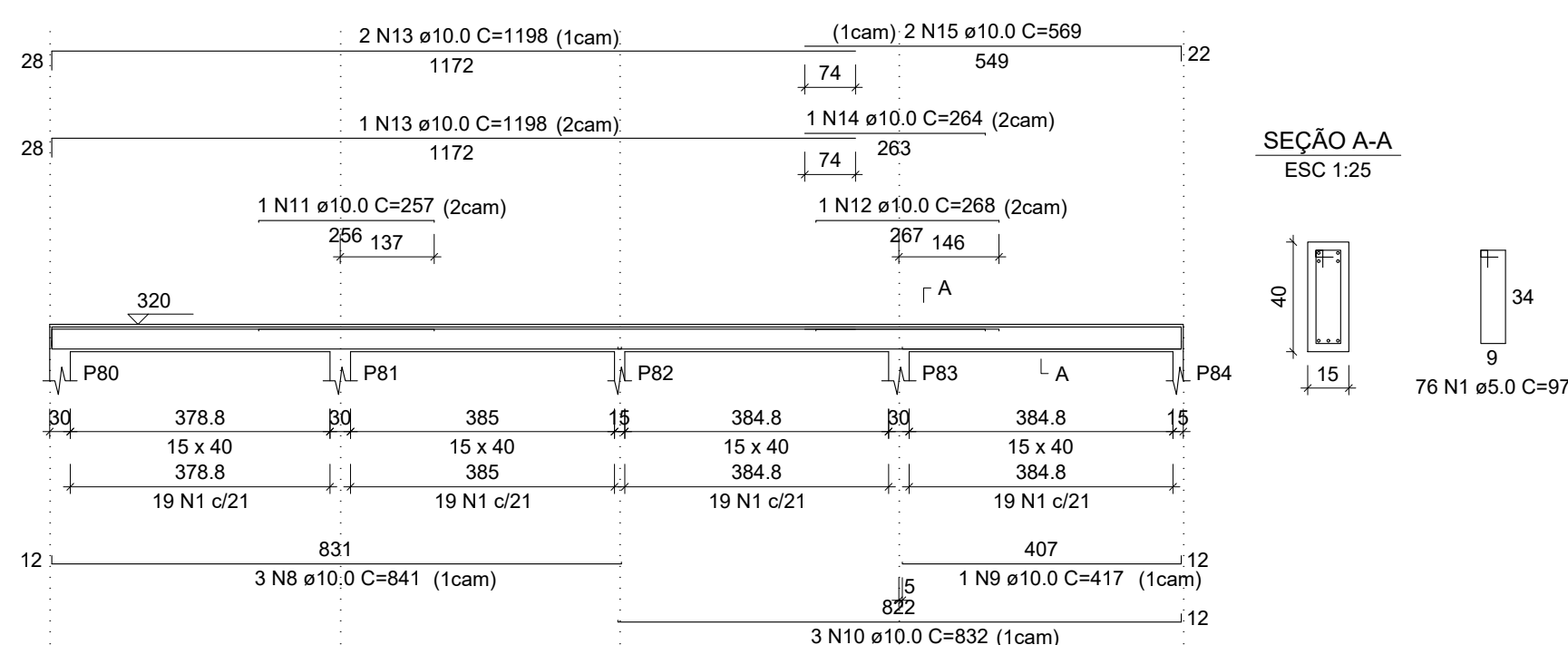
V14 (15 x 40)

ESC 1:100



V15 (15 x 40)

ESC 1:100

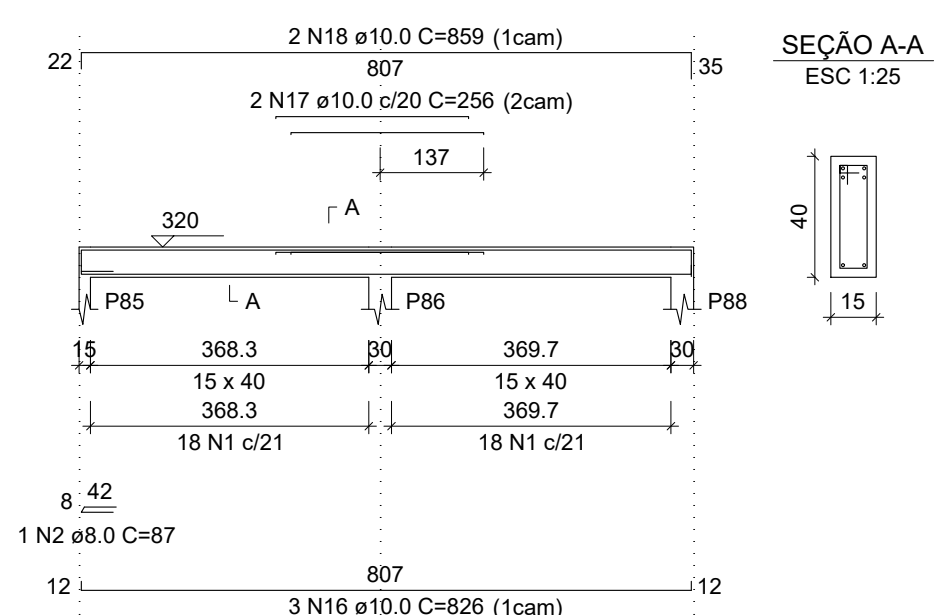


RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V13	1	5.0	781	97	75757
V16	2	8.0	3	87	261
V19	3	10.0	4	1108	4424
V22	4	10.0	1	265	265
V25	5	10.0	2	1153	2306
V28	6	10.0	1	236	236
	7	10.0	2	1149	2298
	8	10.0	3	841	2523
	9	10.0	3	826	2478
	10	10.0	3	832	2496
	11	10.0	1	257	257
	12	10.0	1	268	268
	13	10.0	3	1198	3594
	14	10.0	1	264	264
	15	10.0	2	569	1138
	16	10.0	3	826	2478
	17	10.0	4	256	1024
	18	10.0	2	859	1718
	19	10.0	4	1112	4448
	20	10.0	2	1155	2310
	21	10.0	2	1158	2316
	22	10.0	1	235	235
	23	10.0	2	1155	2310
	24	10.0	2	834	1668
	25	10.0	2	827	1654
	26	10.0	2	1198	2396
	27	10.0	2	545	1090
	28	10.0	2	826	1652
	29	10.0	2	850	1700
	30	10.0	1	267	267
	31	10.0	2	261	522
	32	10.0	3	1099	3297
	33	10.0	6	277	1662
	34	10.0	1	636	636
	35	10.0	2	1154	2308
	36	10.0	2	277	554
	37	10.0	3	1099	3297
	38	10.0	1	968	968
	39	10.0	2	1154	2308
	40	10.0	1	268	268
	41	10.0	3	1099	3297
	42	10.0	3	1097	3291
	43	10.0	1	318	318
	44	10.0	1	968	968
	45	10.0	4	1152	4608
	46	10.0	2	352	704
	47	10.0	3	640	1920
	48	10.0	1	149	149
	49	10.0	2	671	1342
	50	10.0	1	267	267
	51	10.0	1	260	260
	52	10.0	3	1104	3312
	53	10.0	3	275	825
	54	10.0	1	634	634
	55	10.0	2	639	1278
	56	10.0	1	218	218
	57	10.0	2	863	1726
	58	10.0	3	405	1215
	59	10.0	2	43	86
	60	12.5	2	422	844
	61	12.5	2	314	628
	62	12.5	3	919	2757
	63	16.0	2	1152	2304

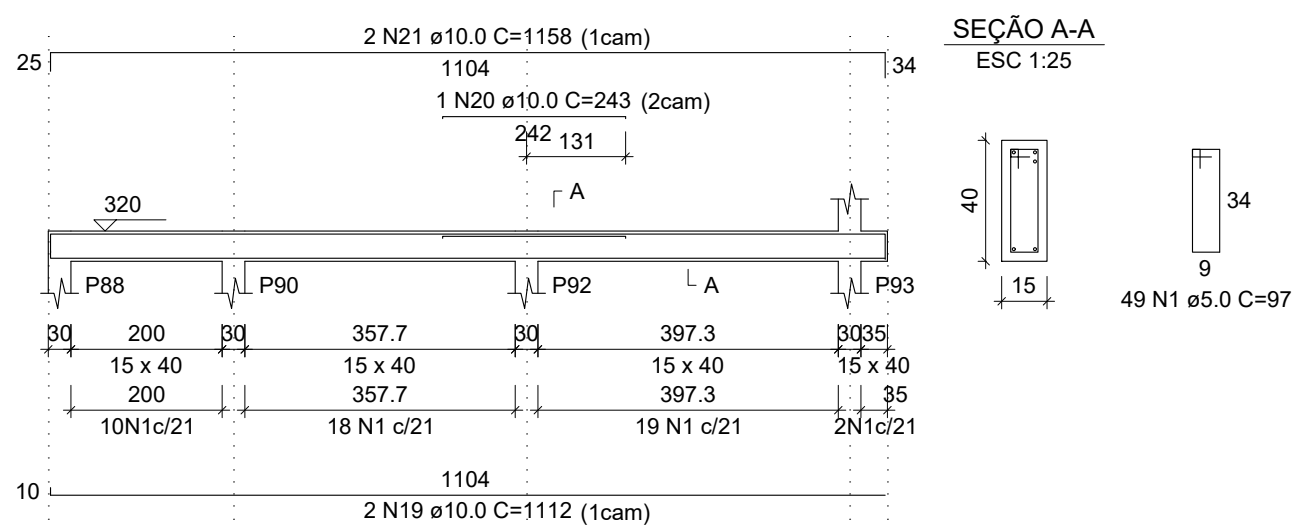
V16 (15 x 40)

ESC 1:100



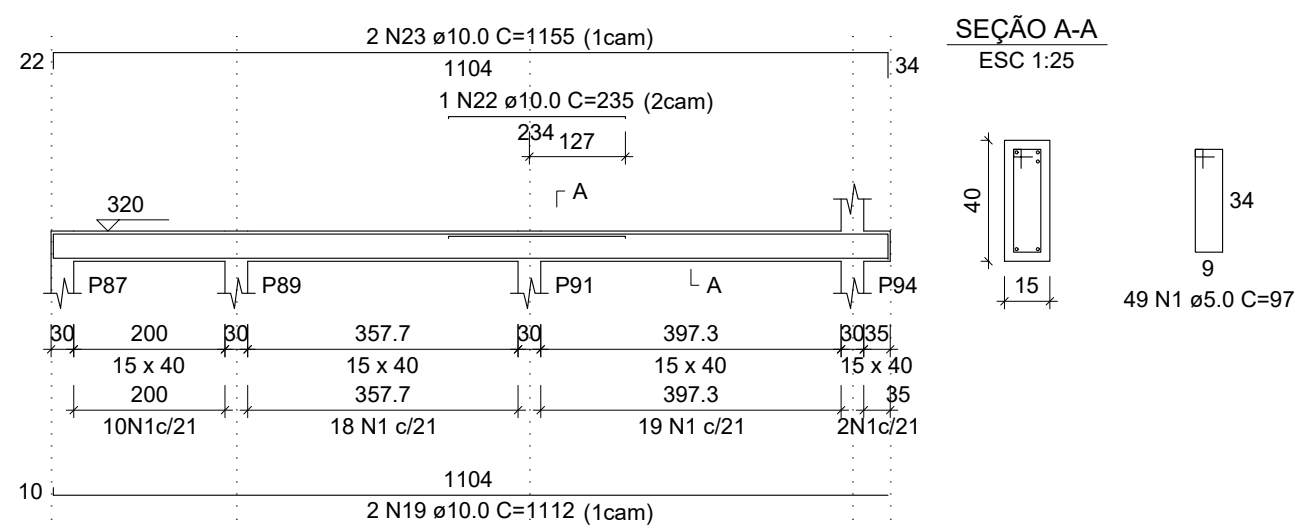
V17 (15 x 40)

ESC 1:100



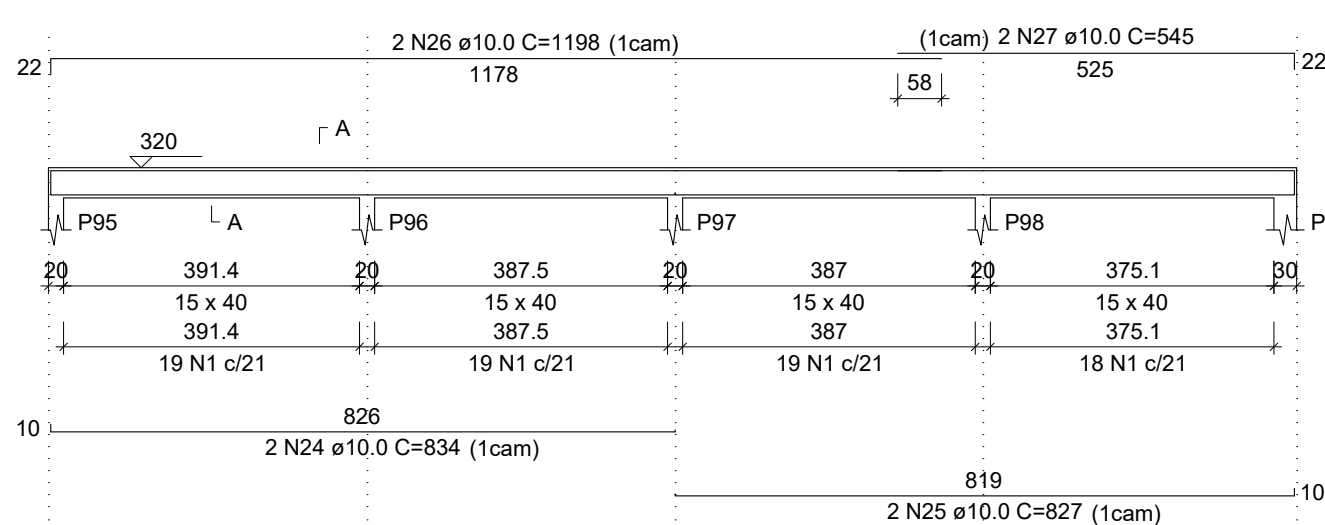
V18 (15 x 40)

ESC 1:100



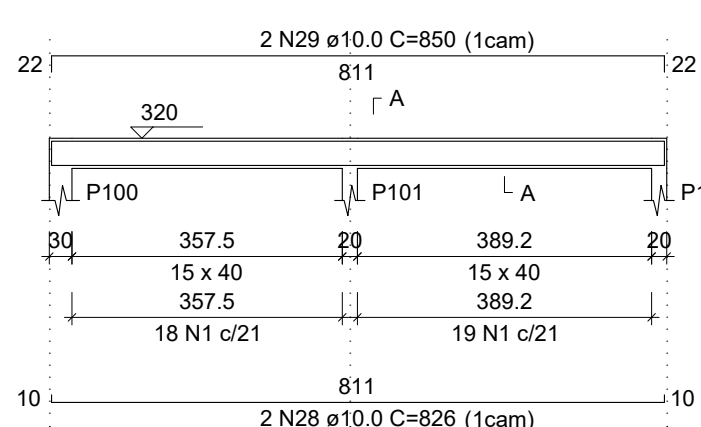
V19 (15 x 40)

ESC 1:100



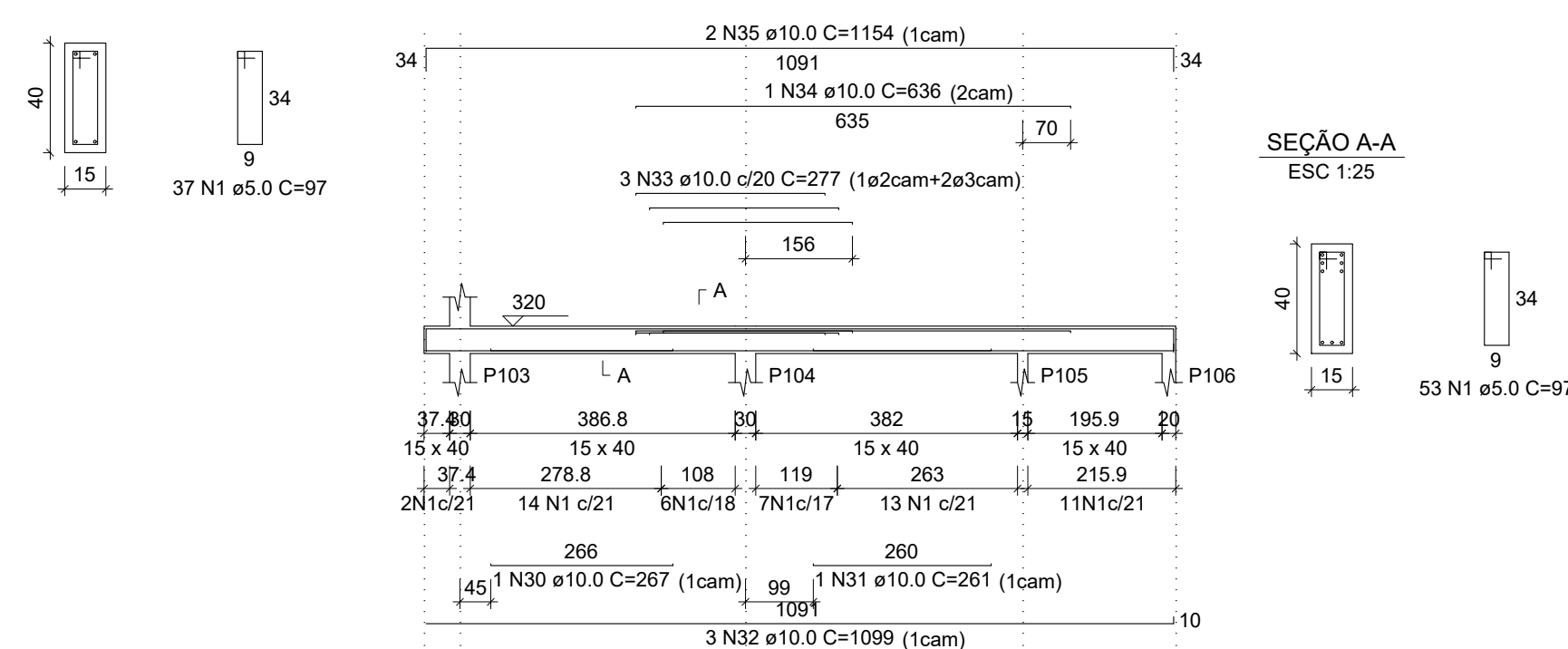
V20 (15 x 40)

ESC 1:100



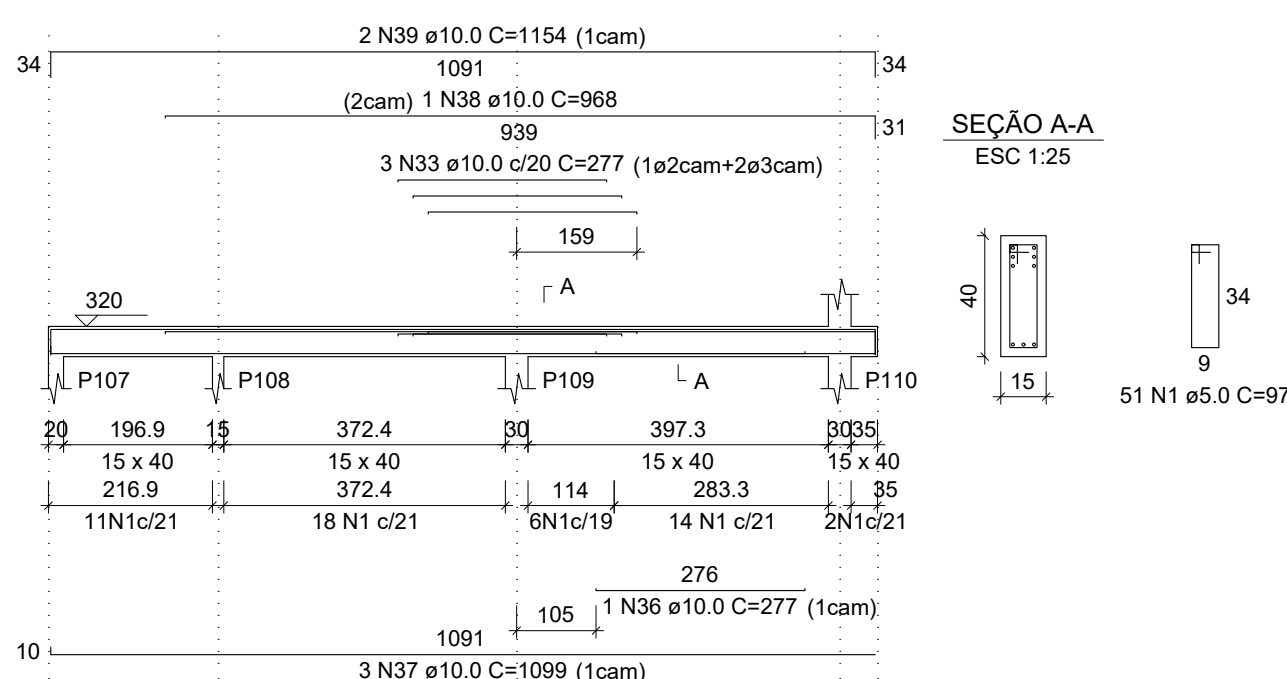
V21 (15 x 40)

ESC 1:100



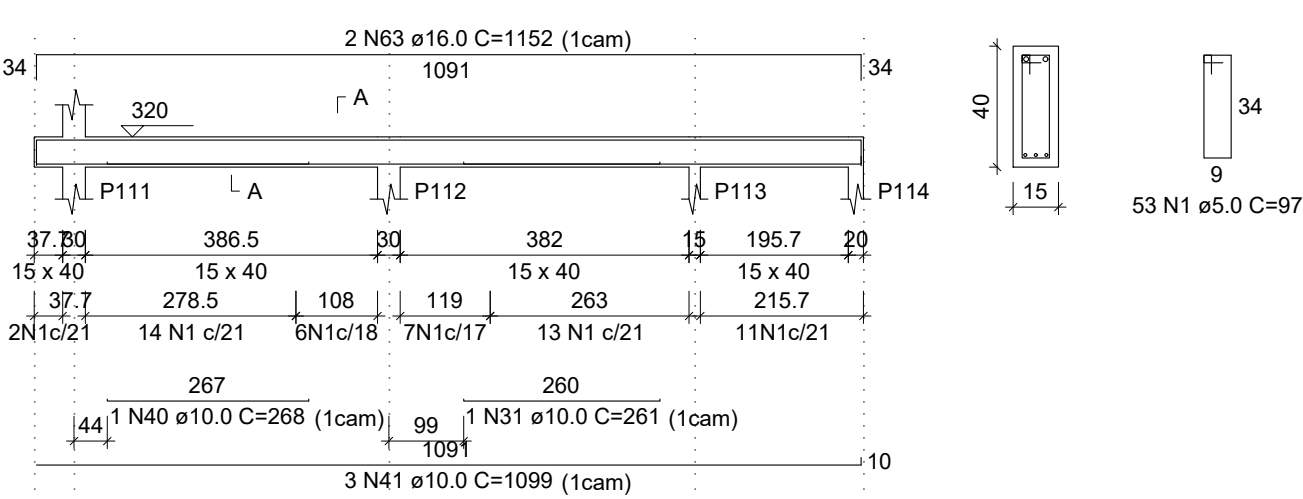
V22 (15 x 40)

ESC 1:100



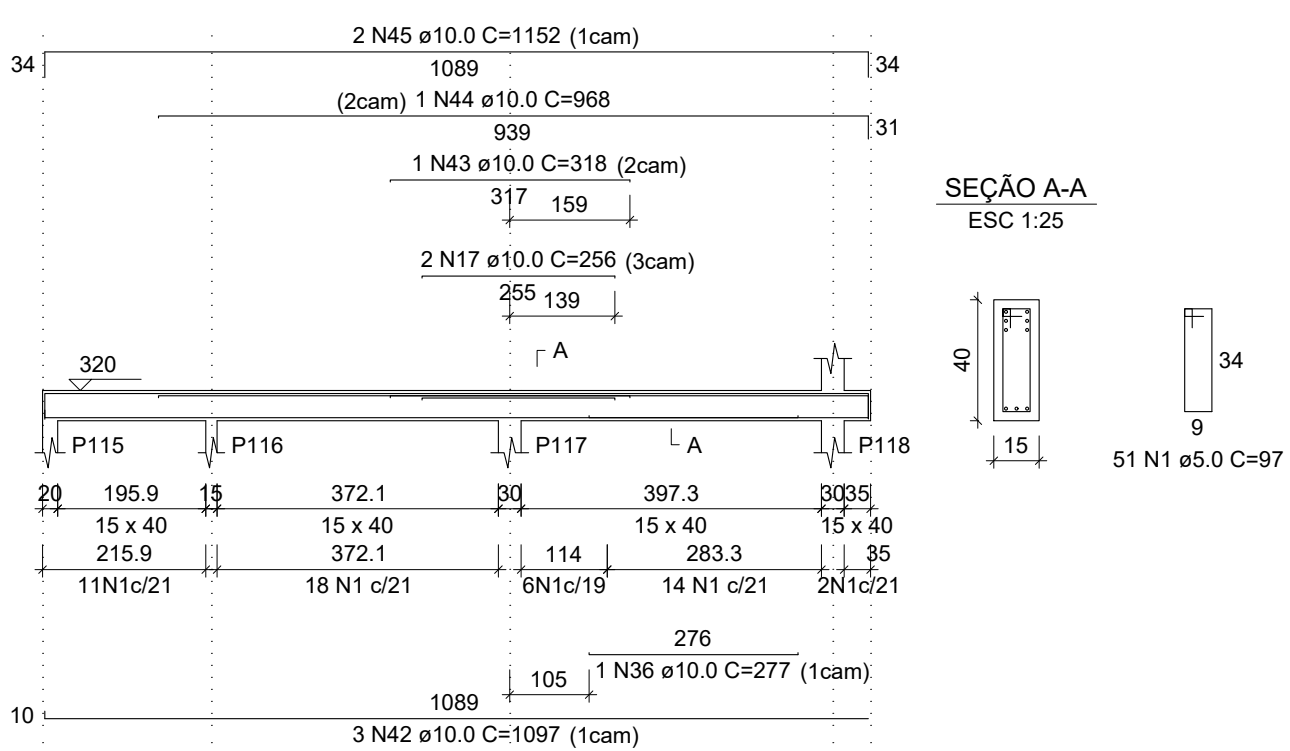
V23 (15 x 40)

ESC 1:100



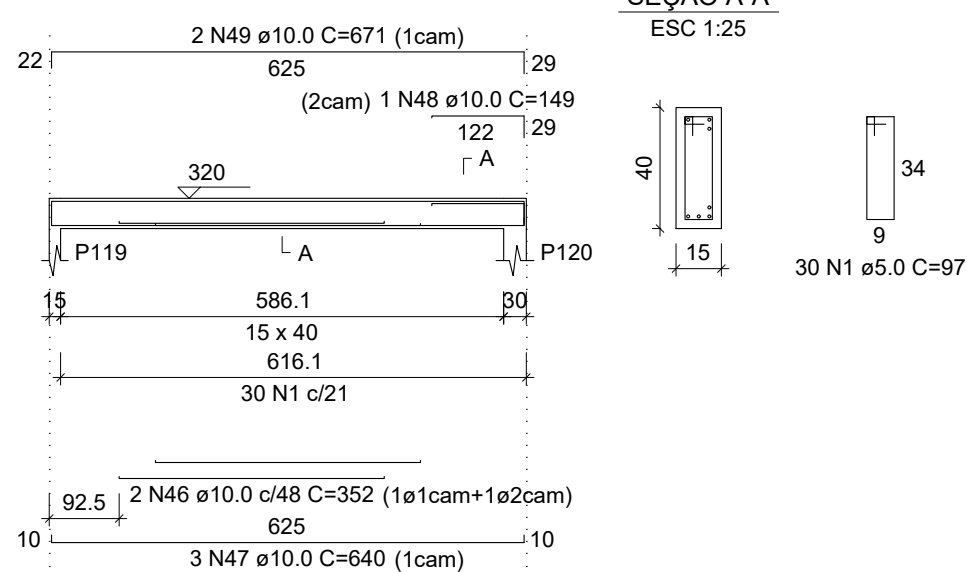
V24 (15 x 40)

ESC 1:100



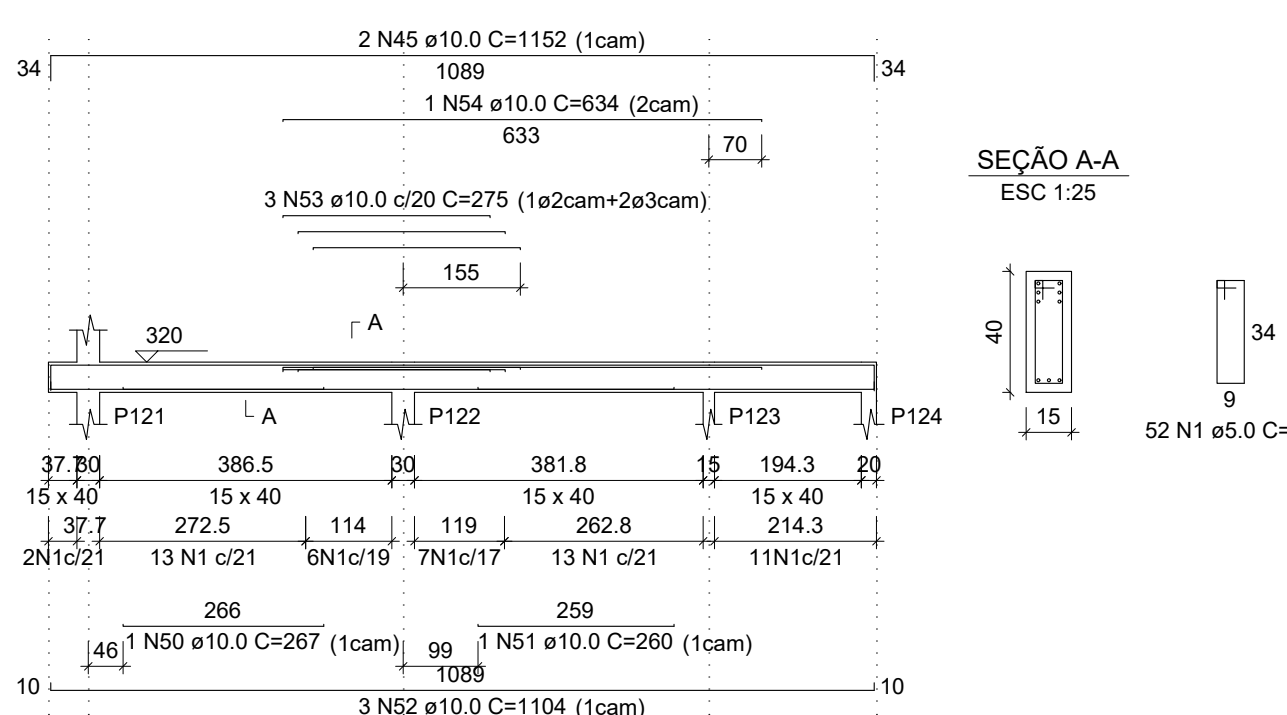
V25 (15 x 40)

ESC 1:100



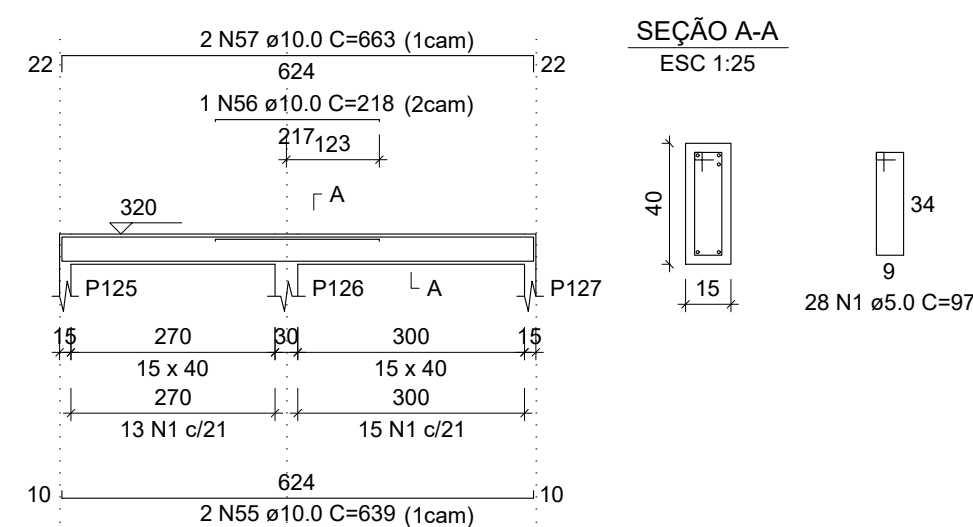
V26 (15 x 40)

ESC 1:100



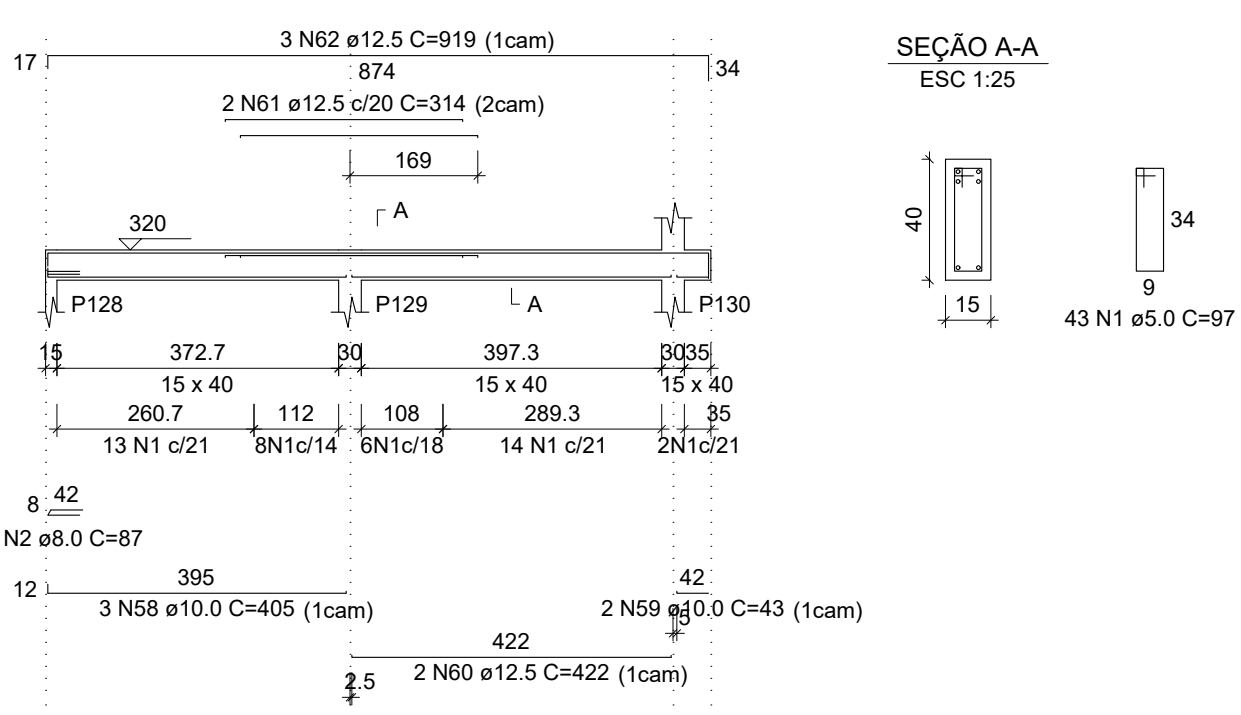
V27 (15 x 40)

ESC 1:100



V28 (15 x 40)

ESC 1:100

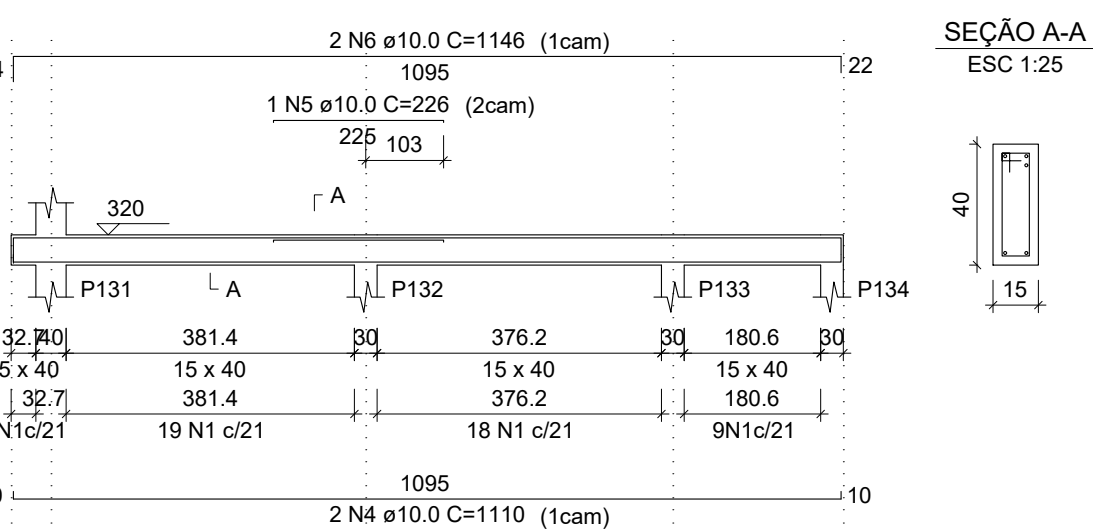


RESUMO DO AÇO

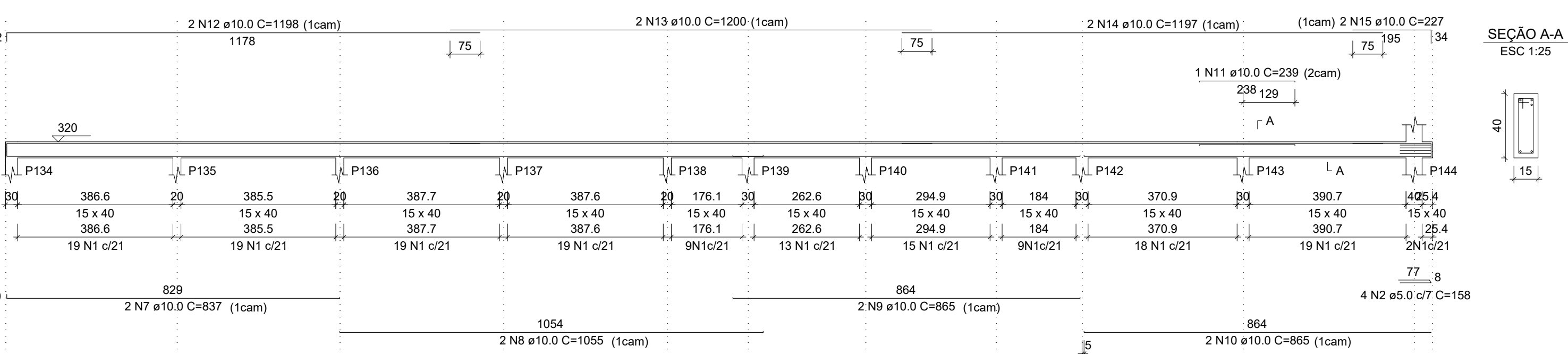
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	8.0	2.6	1
	10.0	875.2	539.6
	12.5	42.3	40.7
	16.0	23	36.4
	16.0	757.6	116.8
CA60			
PESO TOTAL (kg)			
CA50		617.7	
CA60		116.8	

Volume de concreto (C-25) = 10.19 m³
Área de forma = 161.35 m²

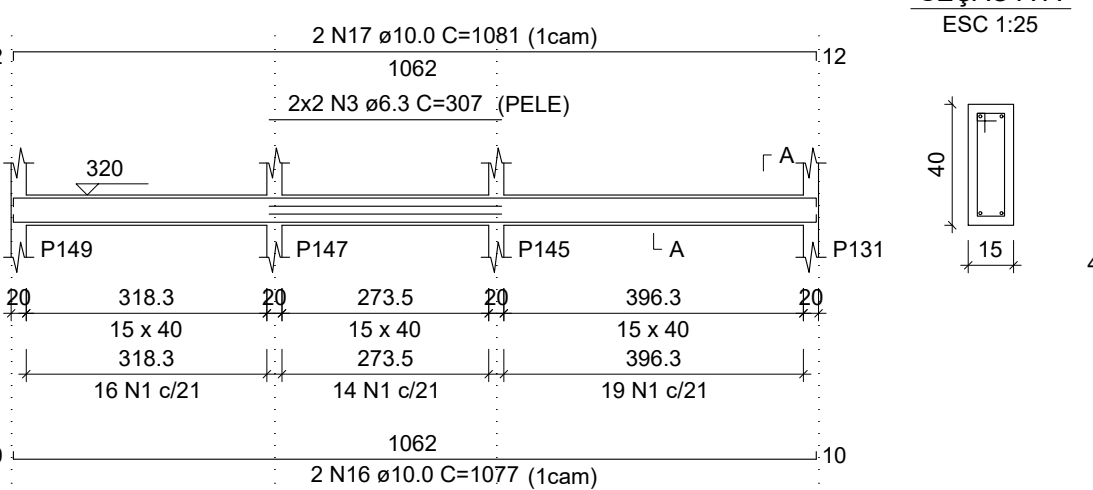
V29 (15 x 40)



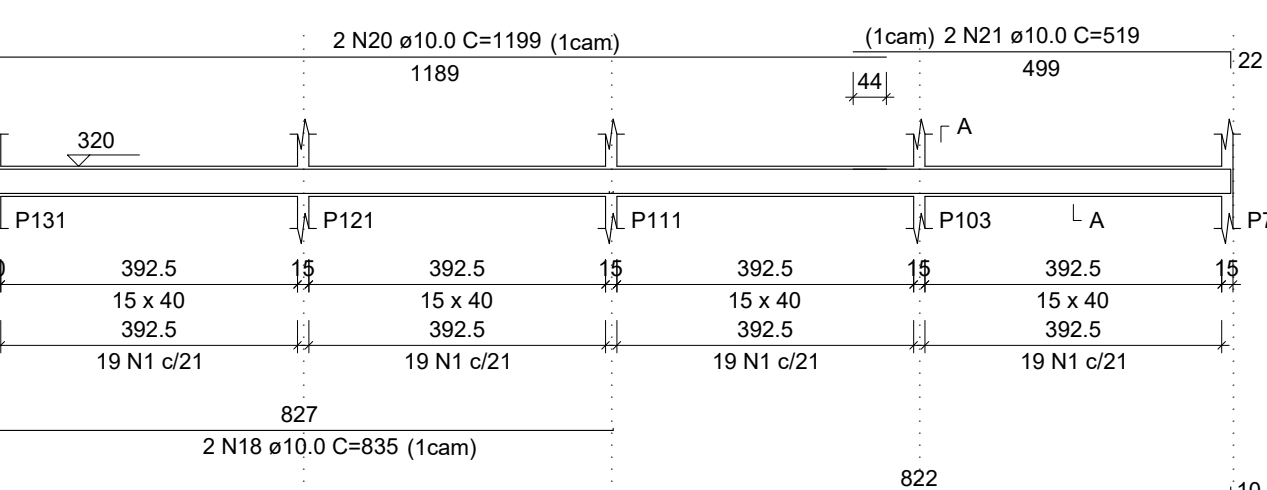
V30 (15 x 40)



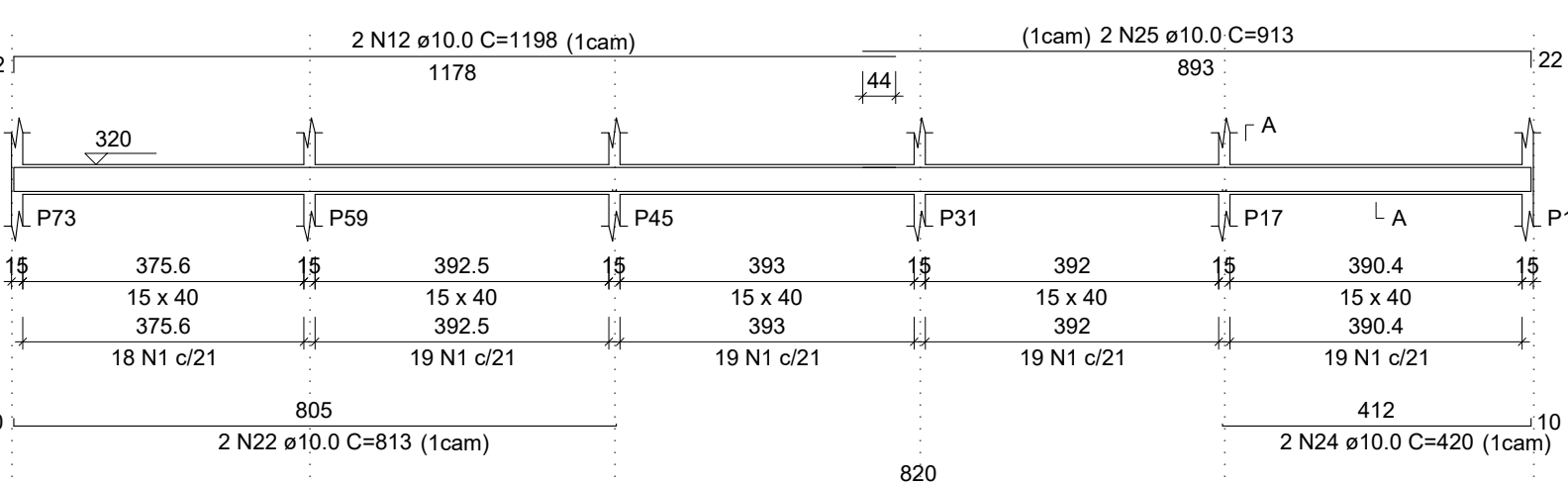
V31 (15 x 40)



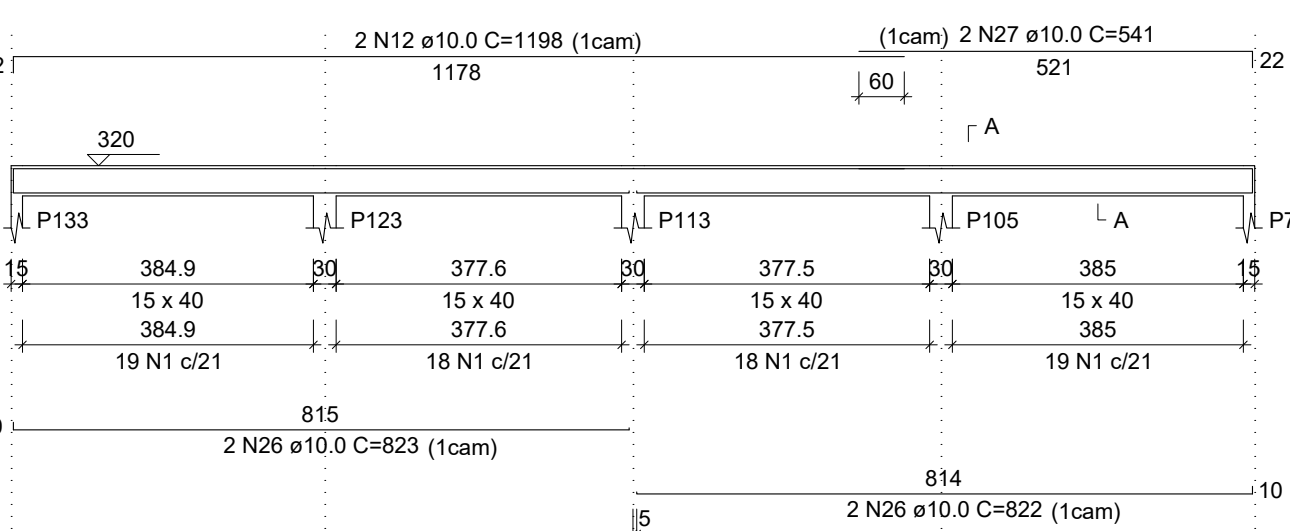
V32 (15 x 40)



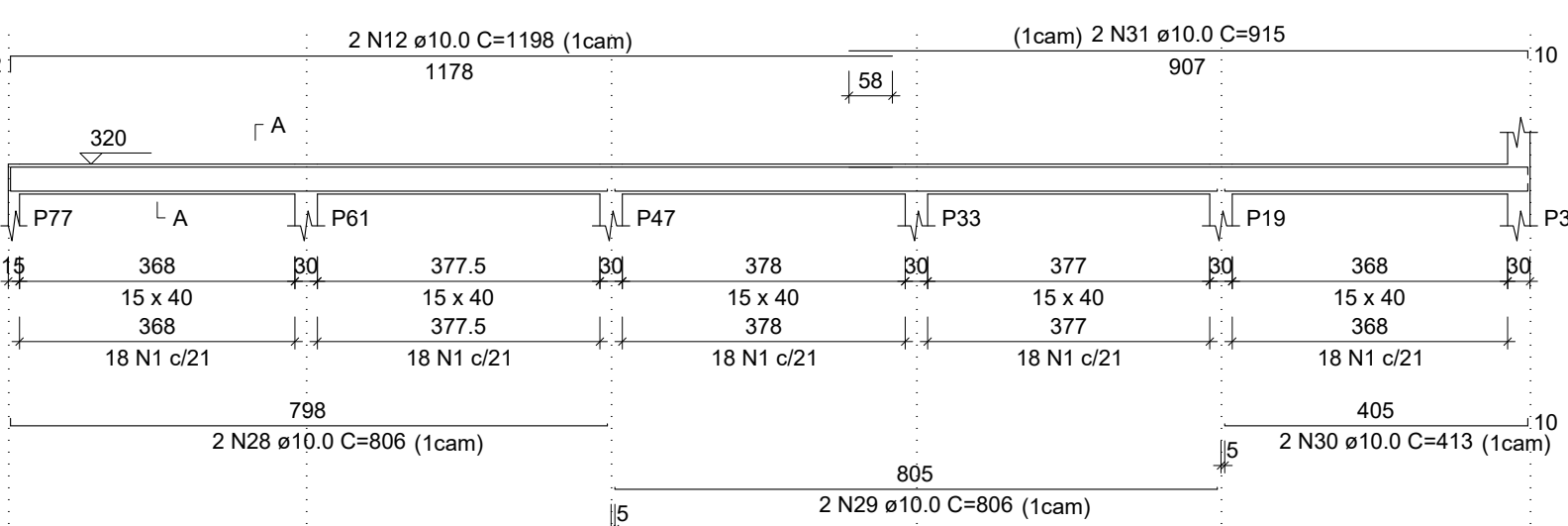
V33 (15 x 40)



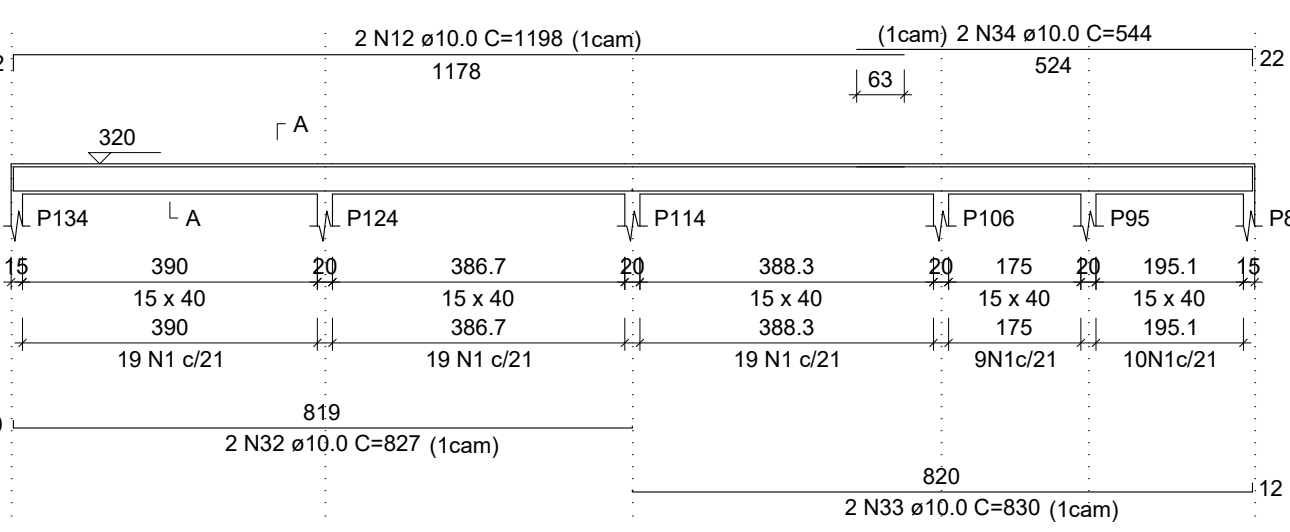
V34 (15 x 40)



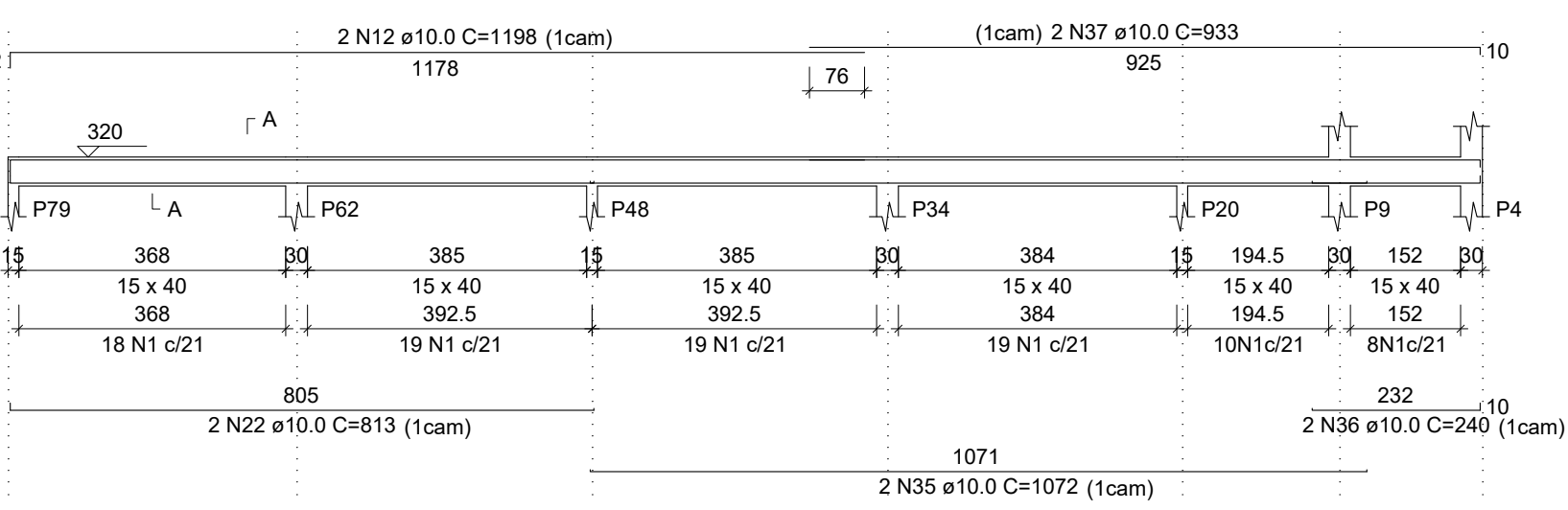
V35 (15 x 40)



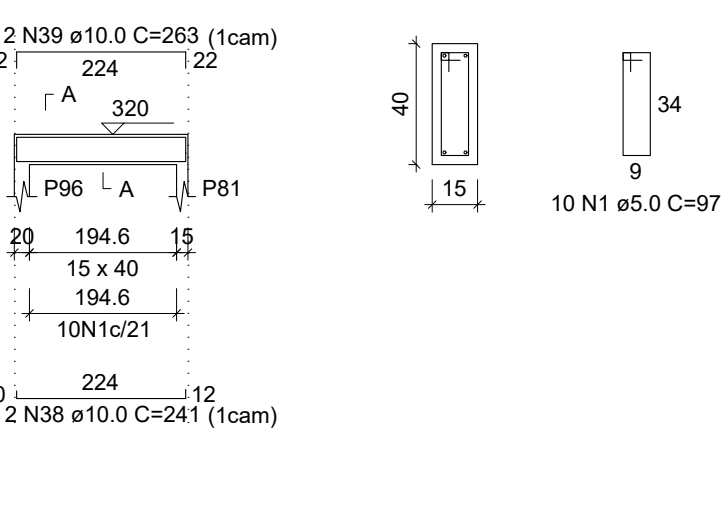
V36 (15 x 40)



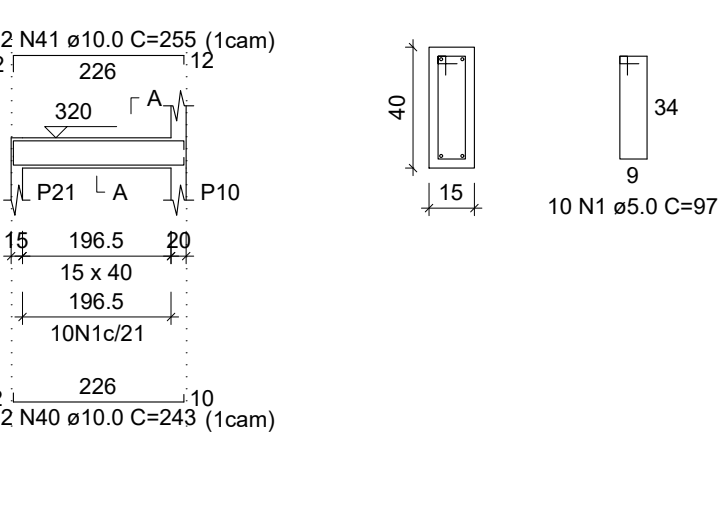
V37 (15 x 40)



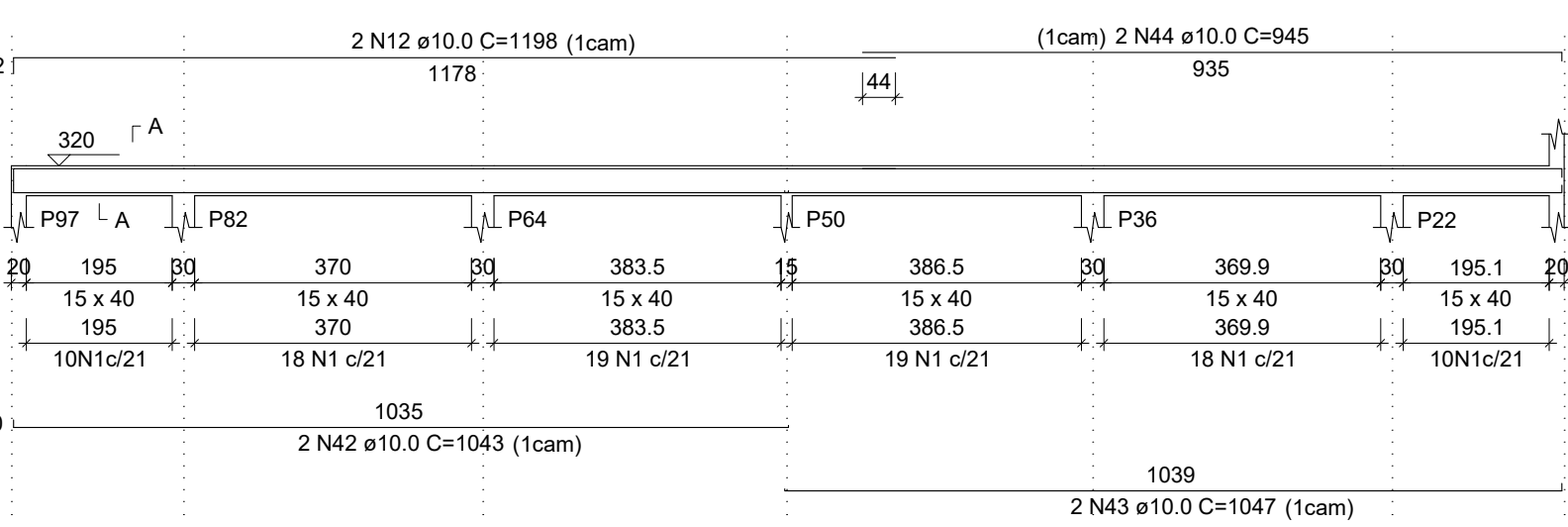
V38 (15 x 40)



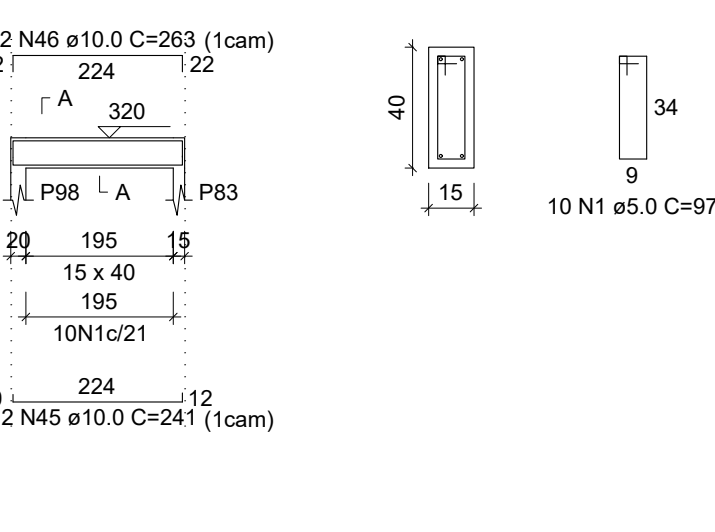
V39 (15 x 40)



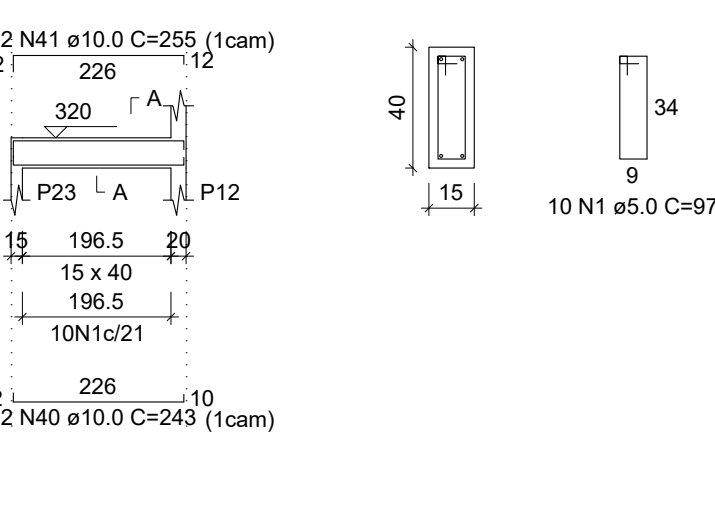
V40 (15 x 40)



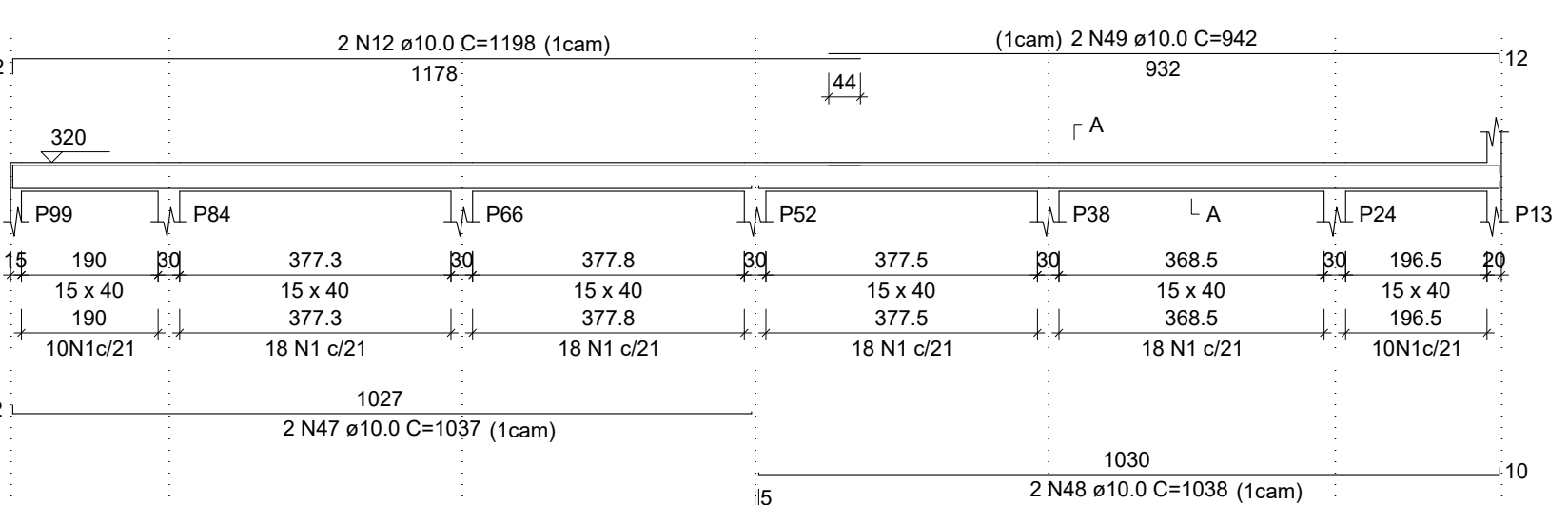
V41 (15 x 40)



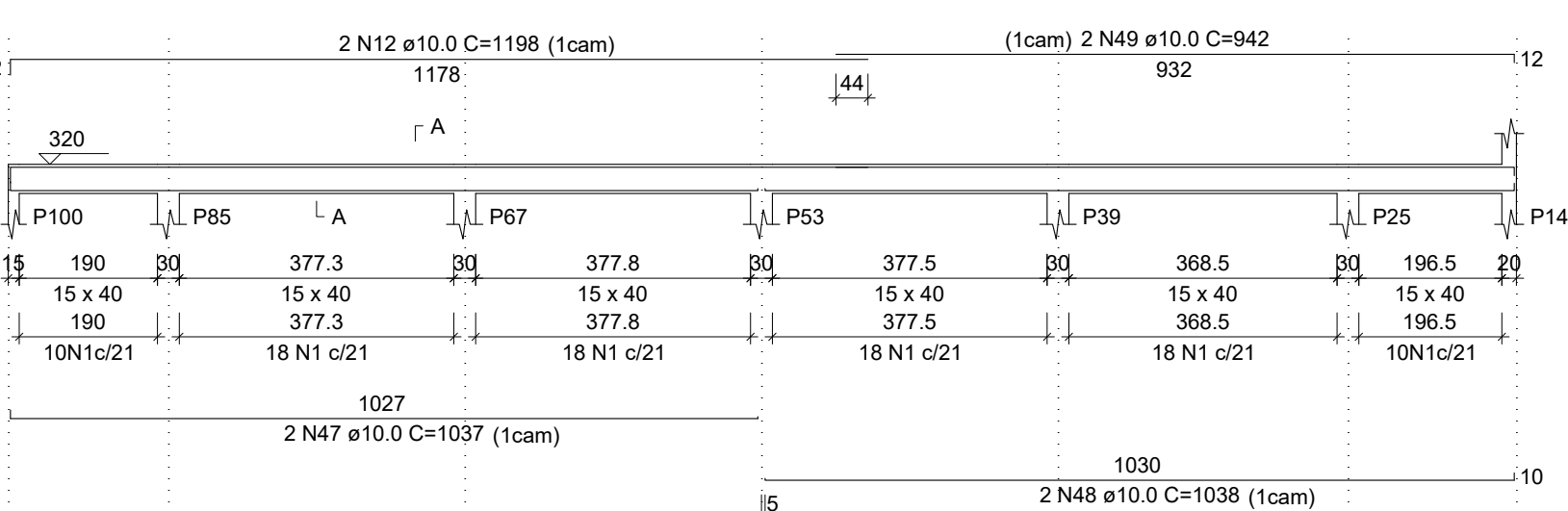
V42 (15 x 40)



V43 (15 x 40)



V44 (15 x 40)



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V29	1	5.0	1079	97	104663
V32	2	5.0	4	158	632
V35	3	6.3	4	307	1228
V38	4	10.0	2	1110	2220
V41	5	10.0	2	226	226
V44	6	10.0	2	1146	2292
	7	10.0	2	837	1674
	8	10.0	2	1055	2110
	9	10.0	2	865	1730
	10	10.0	2	865	1730
	11	10.0	1	239	239
	12	10.0	18	1198	21564
	13	10.0	2	1200	2400
	14	10.0	2	1197	2394
	15	10.0	2	227	454
	16	10.0	2	1077	2154
	17	10.0	2	1081	2162
	18	10.0	2	635	1670
	19	10.0	2	830	1660
	20	10.0	2	1199	2398
	21	10.0	2	519	1038
	22	10.0	4	813	3252
	23	10.0	2	821	1642
	24	10.0	2	420	840
	25	10.0	2	913	1826
	26	10.0	4	823	3292
	27	10.0	2	541	1082
	28	10.0	2	806	1612
	29	10.0	2	806	1612
	30	10.0	2	413	826
	31	10.0	2	915	1830
	32	10.0	2	827	1654
	33	10.0	2	830	1660
	34	10.0	2	544	1088
	35	10.0	2	1072	2144
	36	10.0	2	240	480
	37	10.0	2	933	1866
	38	10.0	2	241	482
	39	10.0	2	263	526
	40	10.0	4	243	972
	41	10.0	4	255	1020
	42	10.0	2	1043	2086
	43	10.0	2	1047	2094
	44	10.0	2	945	1890
	45	10.0	2	241	482
	46	10.0	2	263	526
	47	10.0	4	1037	4148
	48	10.0	4	1038	4152
	49	10.0	4	942	3768

RESUMO DO AÇO

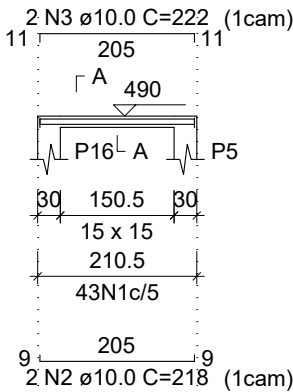
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	12.3	3
CA60	10.0	989.6	610.2
CA60	5.0	1053	162.3
PESO TOTAL (kg)			
CA50	613.2		
CA60	162.3		

Volume de concreto (C-25) = 14.34 m³

Área de forma = 227.09 m²

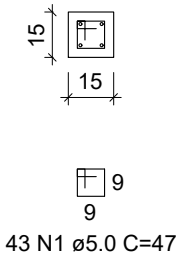
V9 (15 x 15)

ESC 1:100



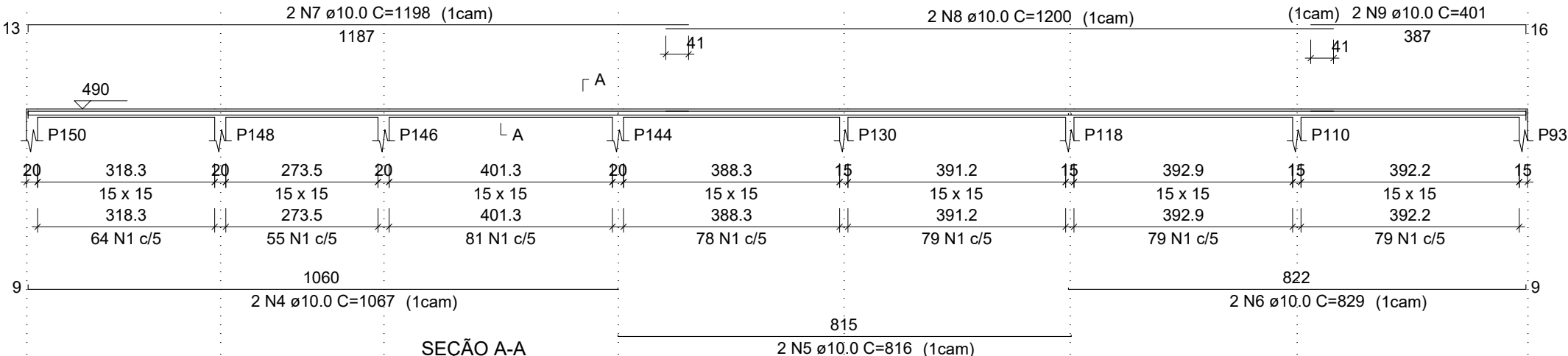
SEÇÃO A-A

ESC 1:25



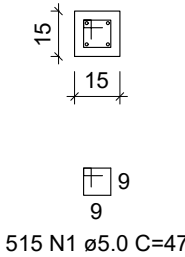
V10 (15 x 15)

ESC 1:100



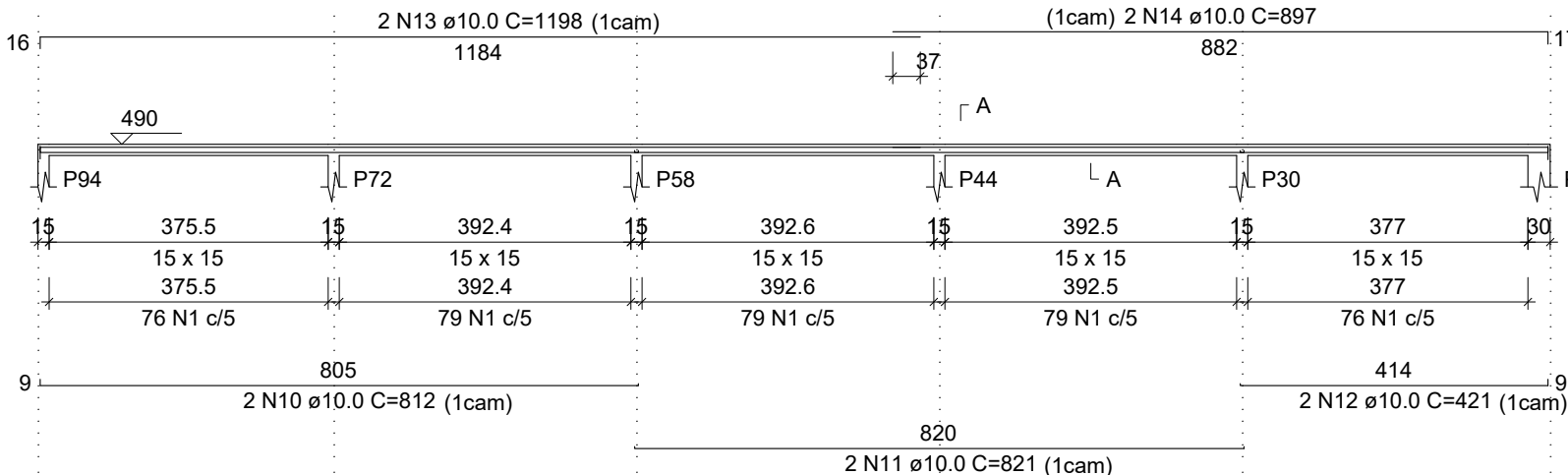
SEÇÃO A-A

ESC 1:25



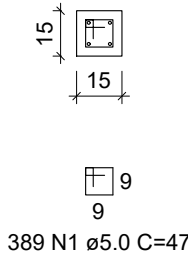
V11 (15 x 15)

ESC 1:100



SEÇÃO A-A

ESC 1:25



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	947	47	44509
CA50	2	10.0	2	218	436
	3	10.0	2	222	444
	4	10.0	2	1067	2134
	5	10.0	2	816	1632
	6	10.0	2	829	1658
	7	10.0	2	1198	2396
	8	10.0	2	1200	2400
	9	10.0	2	401	802
	10	10.0	2	812	1624
	11	10.0	2	821	1642
	12	10.0	2	421	842
	13	10.0	2	1198	2396
	14	10.0	2	897	1794

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	202	124.5
CA60	5.0	445.1	68.6
PESO TOTAL (kg)		Volume de concreto (C-25) = 1.11 m³	
CA50	124.5	Área de forma = 22.24 m²	
CA60	68.6		



INSTITUTO FEDERAL
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DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

NOME:

**PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IF SertãoPE**

ENDEREÇO:

Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:

VIGAS DA PLATIBANDA II (BLOCO ADM - PARTE 2.)

ESCALA:

1/75

DATA:

ABRIL/2025

ASSINATURA/CARIMBO - DIREÇÃO GERAL:

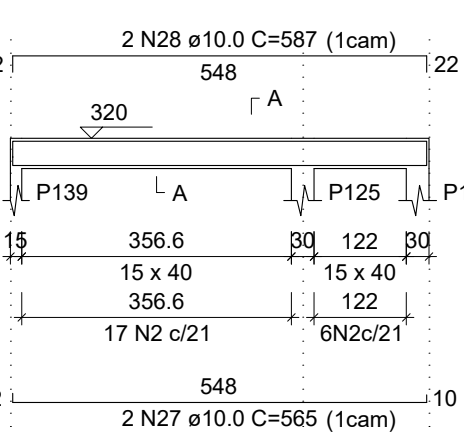
ASSINATURA/CARIMBO - RESPONSÁVEL TÉCNICO:

Wilson Nery da Cunha - CREA BA 14748

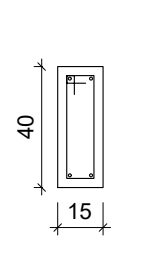
PRANCHA

14
26

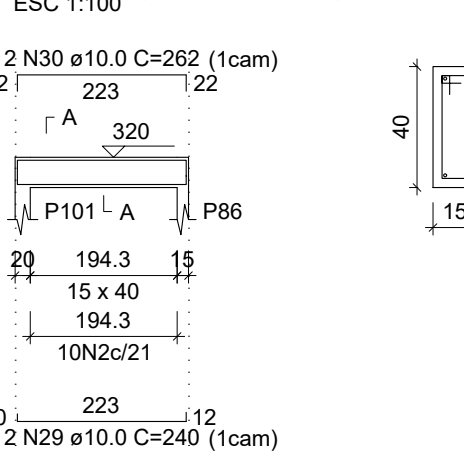
V45 (15 x 40)



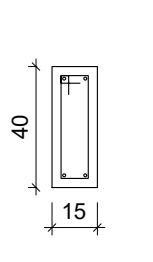
SEÇÃO A-A



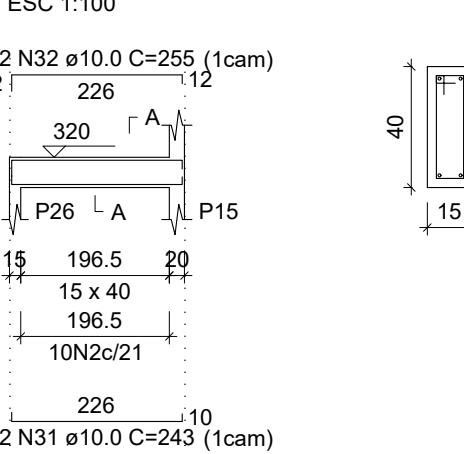
V46 (15 x 40)



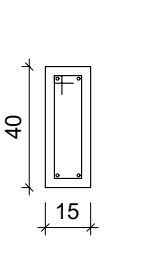
SEÇÃO A-A



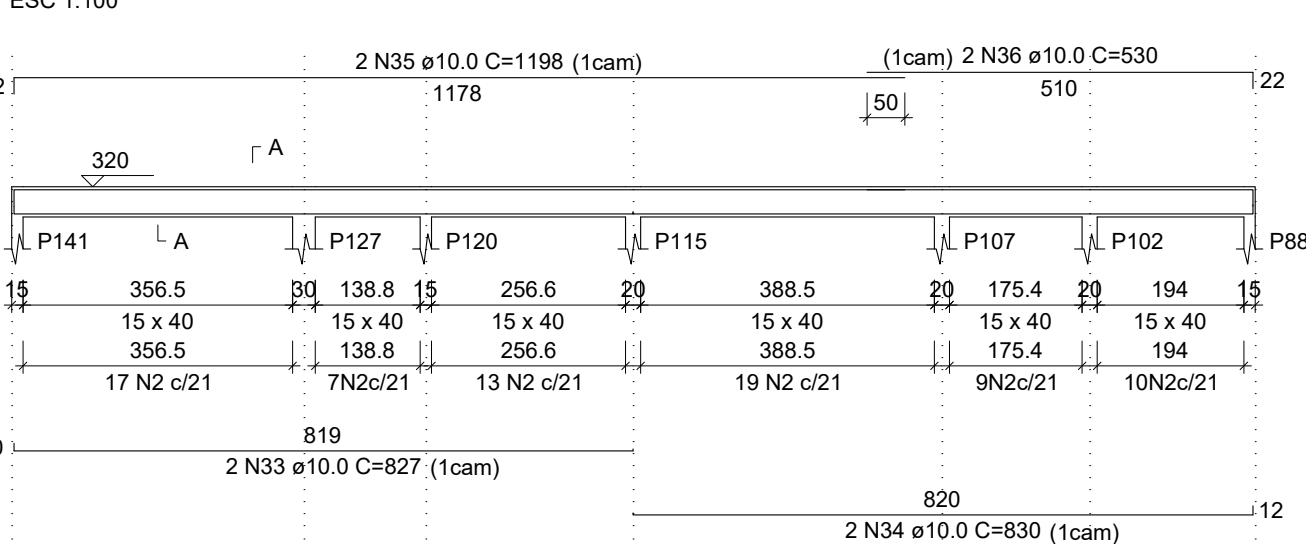
V47 (15 x 40)



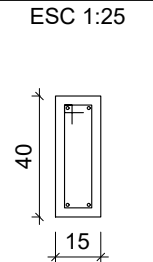
SEÇÃO A-A



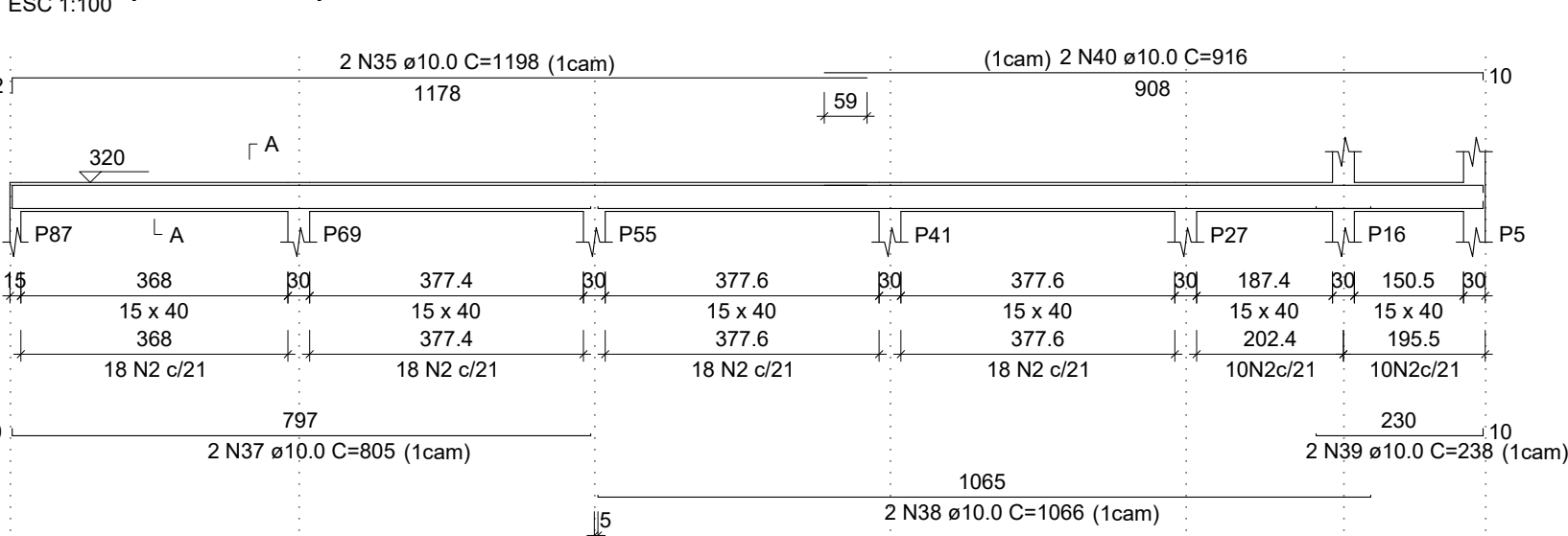
V48 (15 x 40)



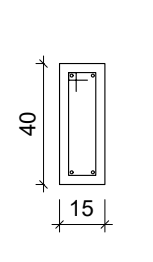
SEÇÃO A-A



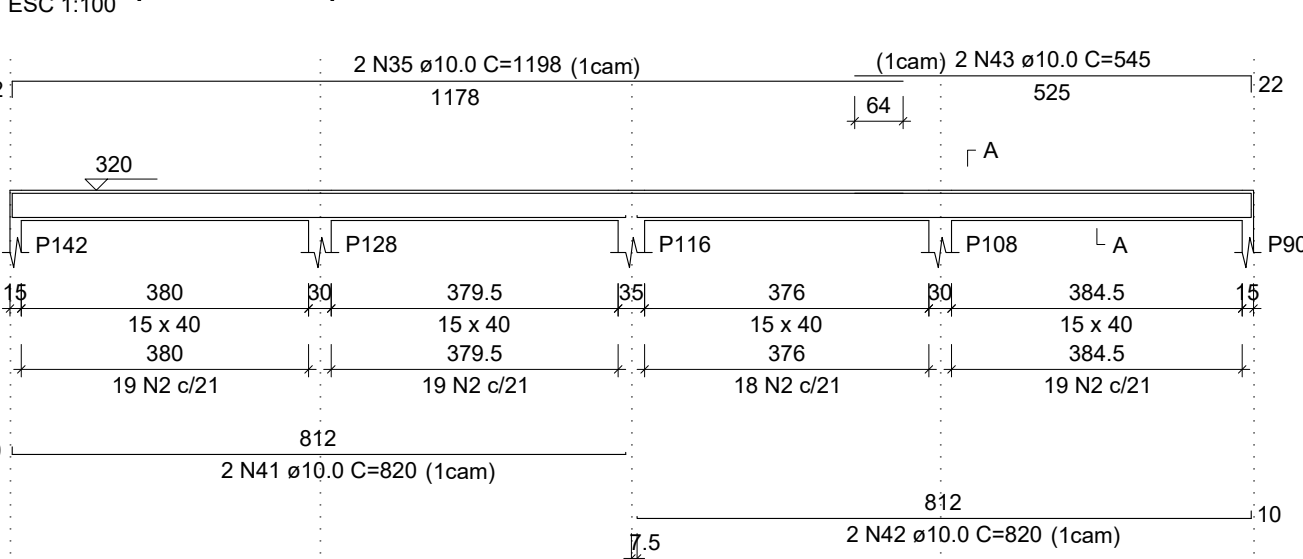
V49 (15 x 40)



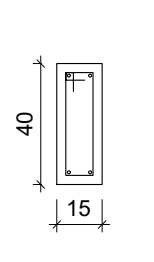
SEÇÃO A-A



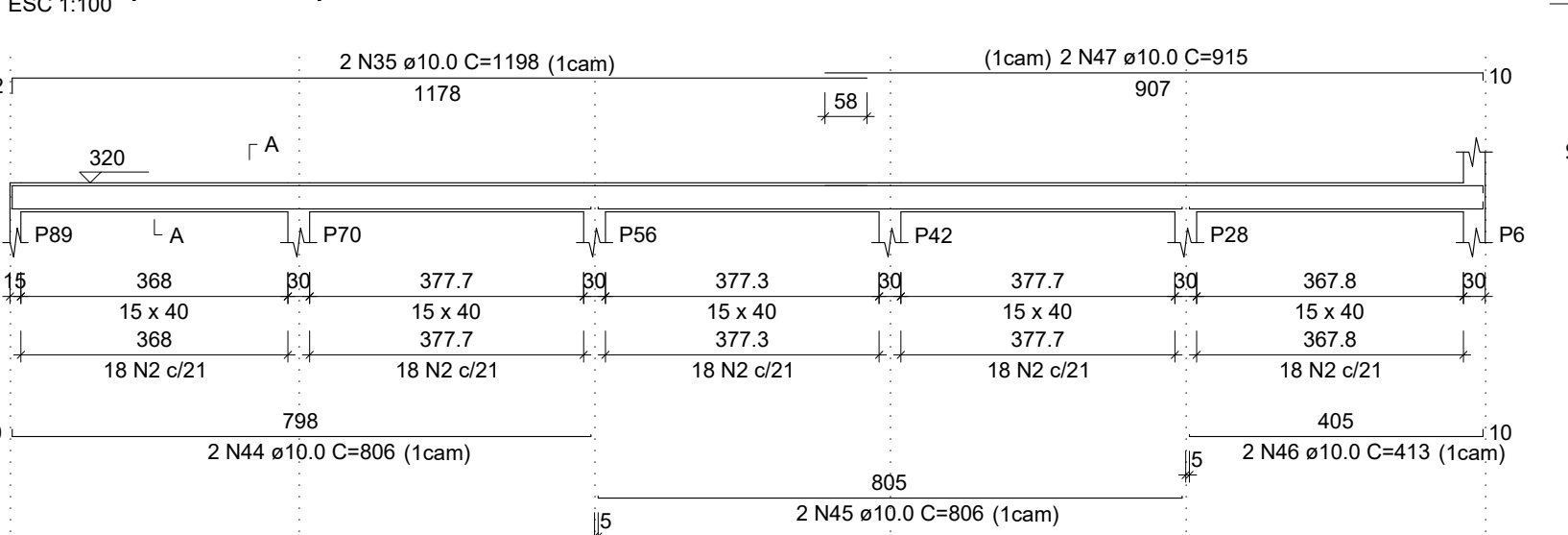
V50 (15 x 40)



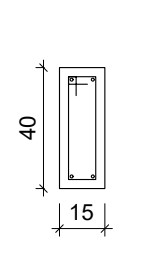
SEÇÃO A-A



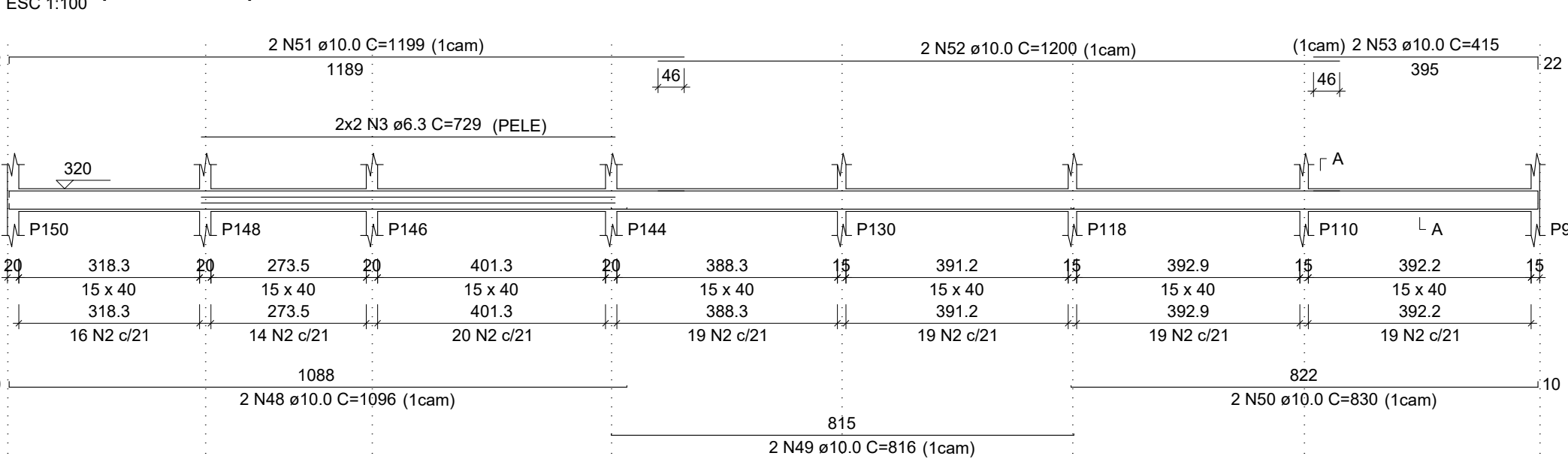
V51 (15 x 40)



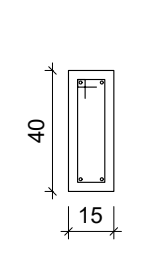
SEÇÃO A-A



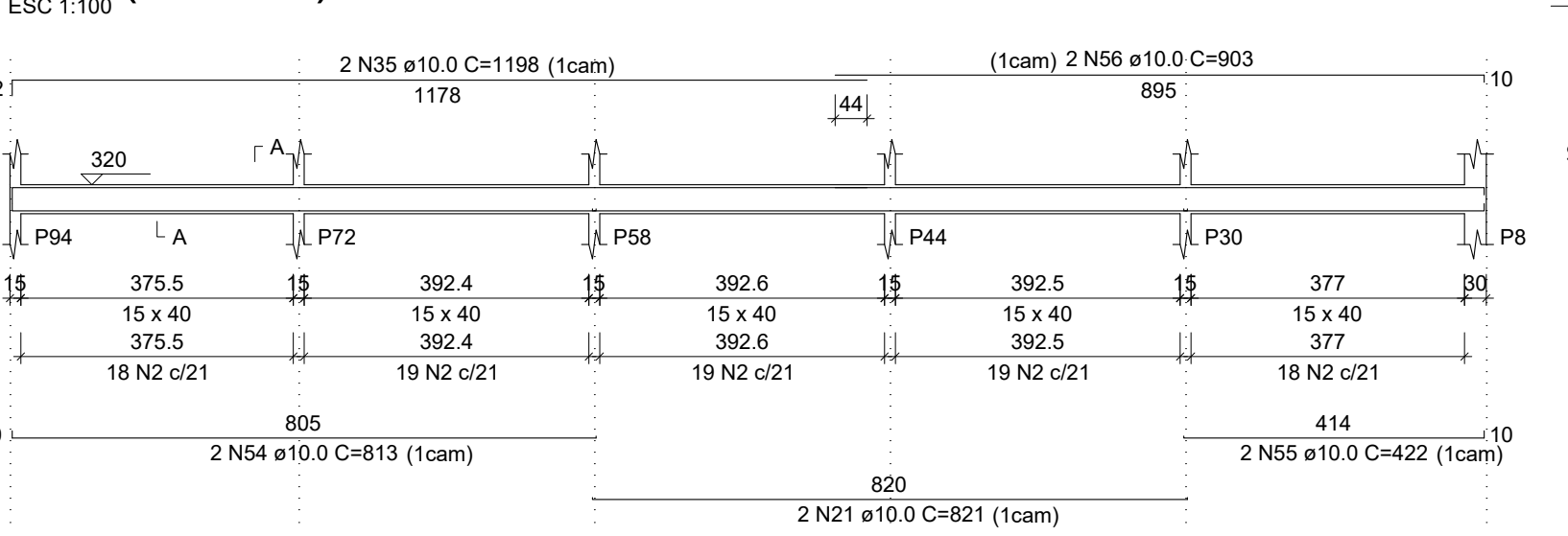
V52 (15 x 40)



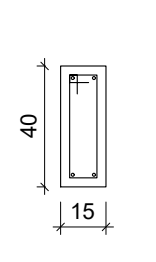
SEÇÃO A-A



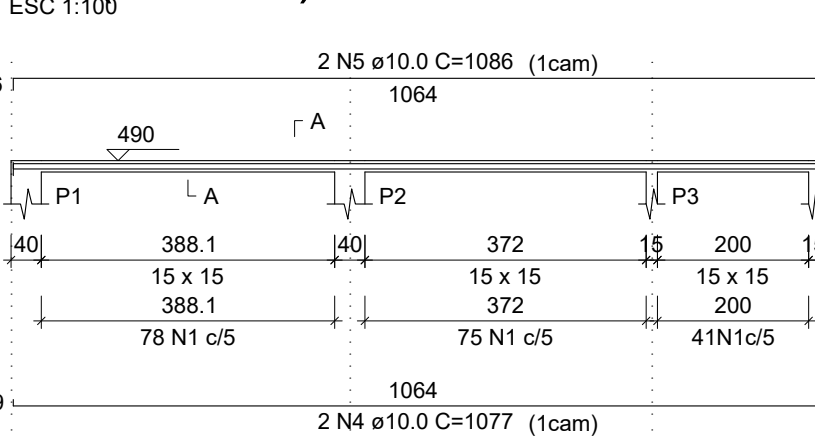
V53 (15 x 40)



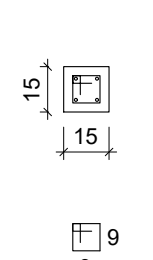
SEÇÃO A-A



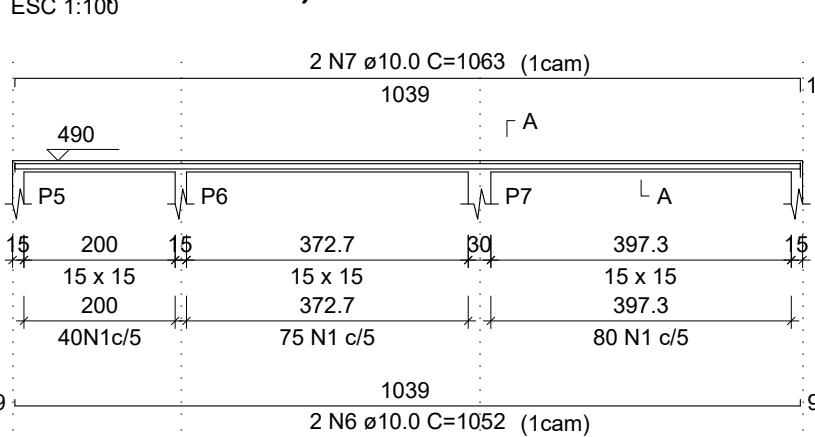
V1 (15 x 15)



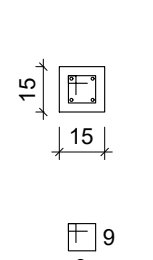
SEÇÃO A-A



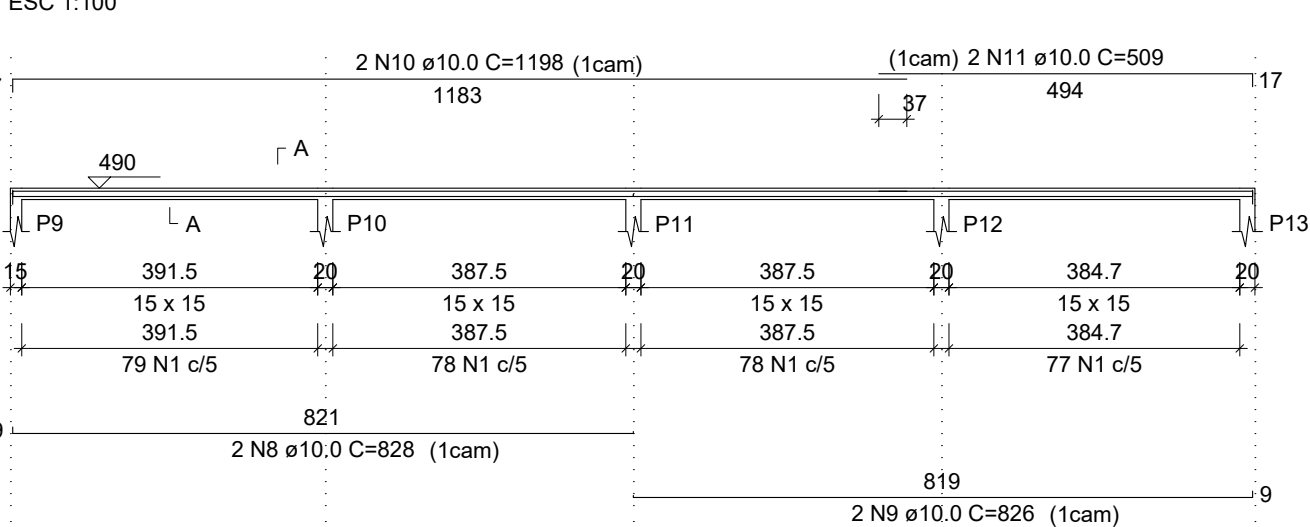
V2 (15 x 15)



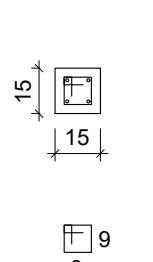
SEÇÃO A-A



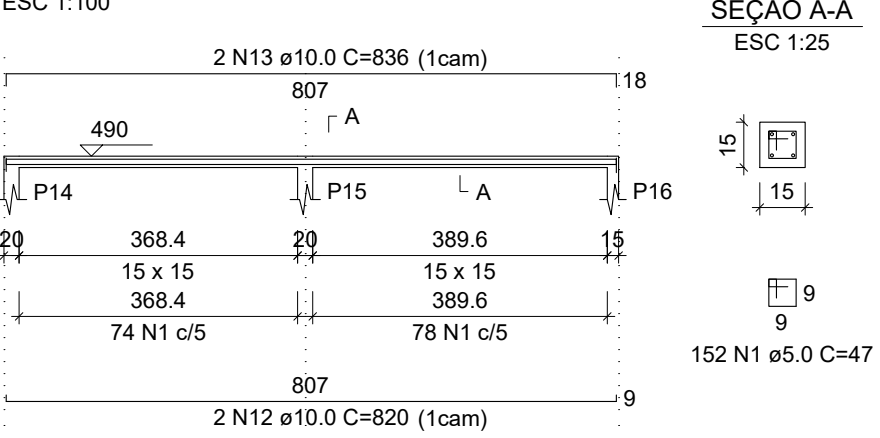
V3 (15 x 15)



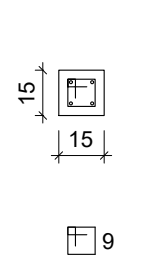
SEÇÃO A-A



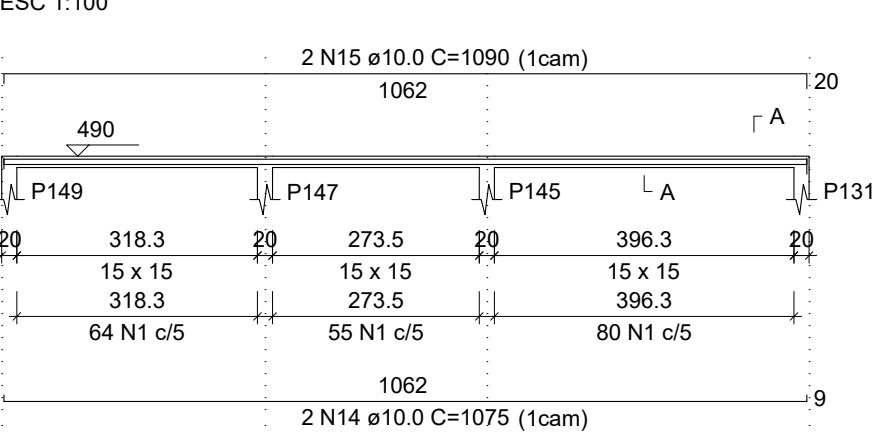
V4 (15 x 15)



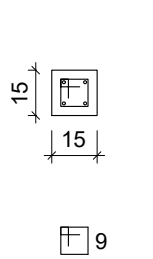
SEÇÃO A-A



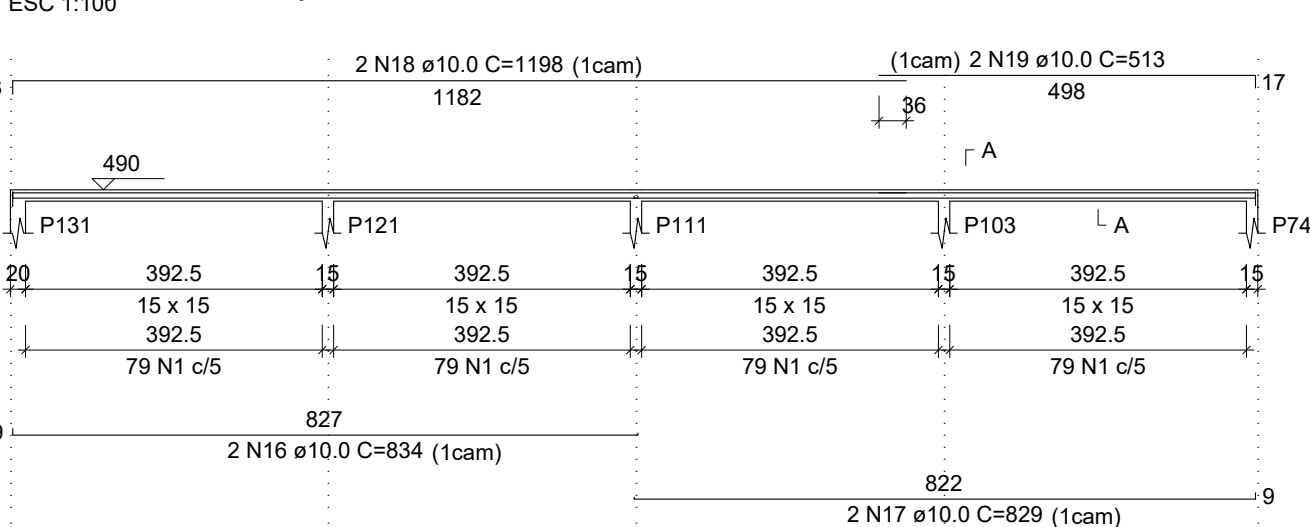
V5 (15 x 15)



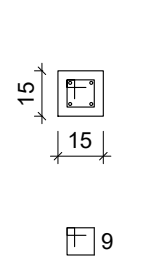
SEÇÃO A-A



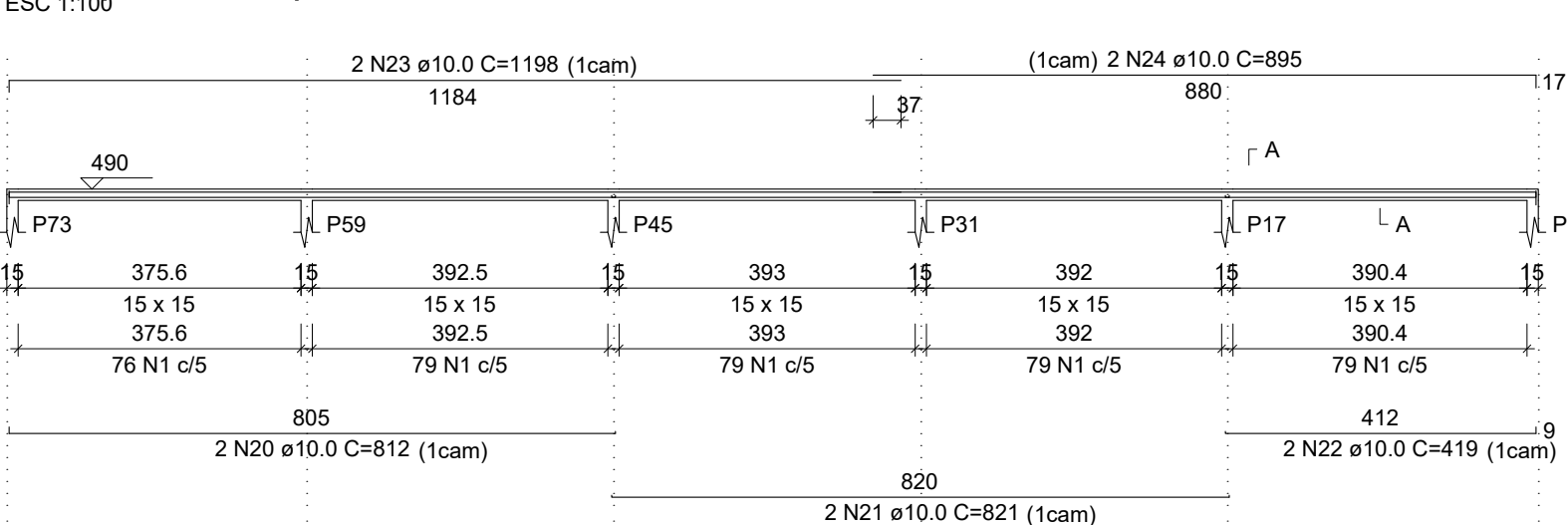
V6 (15 x 15)



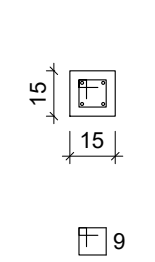
SEÇÃO A-A



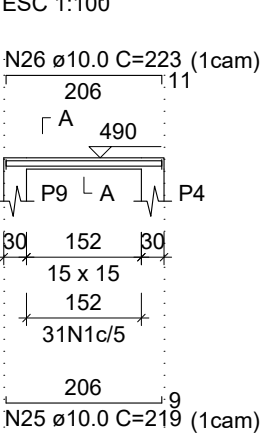
V7 (15 x 15)



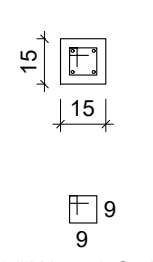
SEÇÃO A-A



V8 (15 x 15)



SEÇÃO A-A



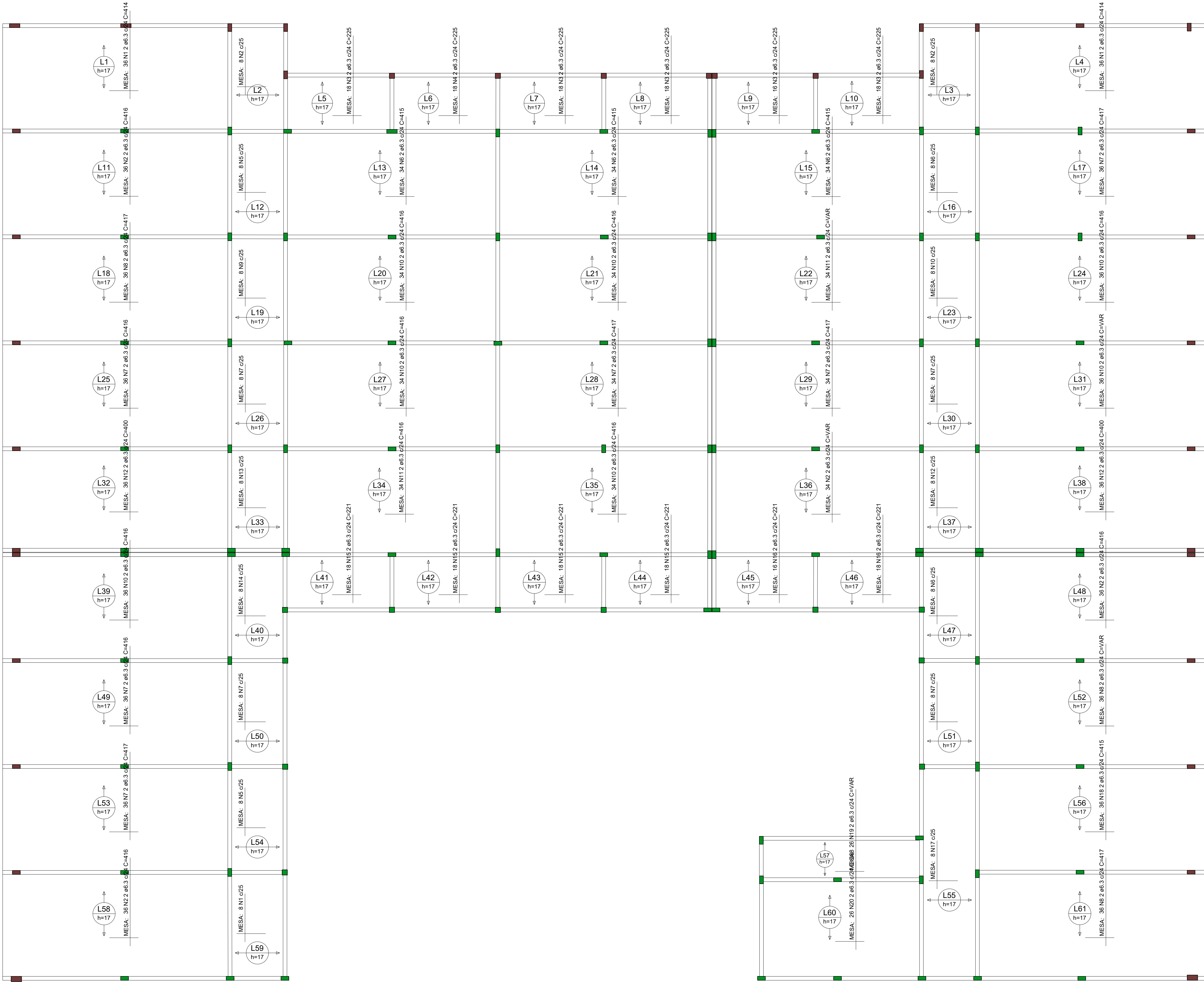
RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1-L3	1	5.0	1791	47	84177
V4-L3	2	5.0	594	97	57618
V7-L3	3	6.3	4	729	2916
V46-L2	4	10.0	2	1077	2154
V49-L2	5	10.0	2	1086	2172
V52-L2	6	10.0	2	1052	2104
	7	10.0	2	1063	2126
	8	10.0	2	828	1656
	9	10.0	2	826	1652
	10	10.0	2	1198	2396
	11	10.0	2	509	1018
	12	10.0	2	820	1640
	13	10.0	2	836	1672
	14	10.0	2	1075	2150
	15	10.0	2	1090	2180
	16	10.0	2	834	1668
	17	10.0	2	829	1658
	18	10.0	2	1198	2396
	19	10.0	2	513	1026
	20	10.0	2	812	1624
	21	10.0	4	821	3284
	22	10.0	2	419	838
	23	10.0	2	1198	2396
	24	10.0	2	895	1790
	25	10.0	2	219	438
	26	10.0	2	223	446
	27	10.0	2	565	1130
	28	10.0	2	587	1174
	29	10.0	2	240	480
	30	10.0	2	262	524
	31	10.0	2	243	486
	32	10.0	2	255	510
	33	10.0	2	827	1654
	34	10.0	2	830	1660
	35	10.0	10	1198	11980
	36	10.0	2	530	1060
	37	10.0	2	805	1610
	38	10.0	2	1066	2132
	39	10.0	2	238	476
	40	10.0	2	916	1832
	41	10.0	2	820	1640
	42	10.0	2	820	1640
	43	10.0	2	545	1090
	44	10.0	2	806	1612
	45	10.0	2	806	1612
	46	10.0	2	413	826
	47	10.0	2	915	1830
	48	10.0	2	1096	2192
	49	10.0	2	816	1632
	50	10.0	2	830	1660
	51	10.0	2	1199	2398
	52	10.0	2	1200	2400
	53	10.0	2	415	830
	54	10.0	2	813	1626
	55	10.0	2	422	844
	56	10.0	2	903	1806

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	29.2	7.1
CA60	10.0	928.3	572.3
	5.0	1418	218.6
PESO TOTAL (kg)			
CA50	579.5		
CA60	218.6		

Volume de concreto (C-25) = 10.01 m³
Área de forma = 167.41 m²



Armação positiva das lajes do pavimento PRIMEIRO (Eixo Y)
escala 1:75

RELAÇÃO DO AÇO					
Positivos Y					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	80	414	33120
	2	6.3	158	416	65728
	3	6.3	88	225	19800
	4	6.3	18	225	4050
	5	6.3	16	415	6640
	6	6.3	118	415	48970
	7	6.3	244	417	101748
	8	6.3	106	417	45036
	9	6.3	8	417	3336
	10	6.3	252	416	104832
	11	6.3	68	VAR	VAR
	12	6.3	80	400	32000
	13	6.3	8	399	3192
	14	6.3	8	416	3328
	15	6.3	72	221	15912
	16	6.3	34	221	7514
	17	6.3	8	VAR	VAR
	18	6.3	36	415	14940
	19	6.3	26	VAR	VAR
	20	6.3	26	388	10088

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	5593.9	1368.8
PESO TOTAL (kg)			
CA50	1368.8		

Volume de concreto (C-25) = 0.00 m³
Area de forma = 0.00 m²



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DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IF Sertão PE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:
LAJES POSITIVAS EIXO Y (BLOCO ADM - PARTE 2.)

ESCALA:
1/75

DATA:
ABRIL/2025

ASSINATURA/CARIMBO - DIREÇÃO GERAL

ASSINATURA/CARIMBO - RESPONSÁVEL TÉCNICO

WILSON NERY DA CUNHA - CREA BA 14748

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RELAÇÃO DO AÇO

Positivos X

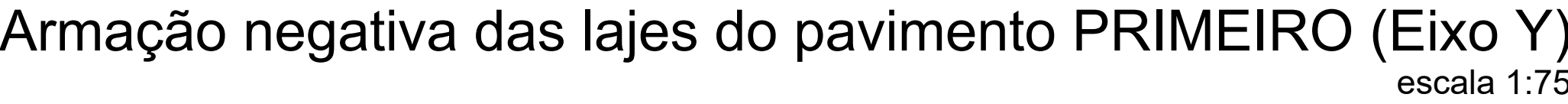
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	127	875	111125
	2	6.3	52	224	11648
	3	6.3	16	225	3600
	4	6.3	47	874	41078
	5	6.3	8	418	3344
	6	6.3	16	416	6656
	7	6.3	8	417	3336
	8	6.3	8	416	3328
	9	6.3	8	400	3200
	10	6.3	8	415	3320
	11	6.3	36	223	8028
	12	6.3	16	826	13216
	13	6.3	16	824	13184
	14	6.3	16	807	12912
	15	6.3	32	874	27968
	16	6.3	16	826	13216
	17	6.3	16	824	13184
	18	6.3	32	VAR	VAR
	19	6.3	32	224	7168
	20	6.3	16	873	13968
	21	6.3	16	825	13200
	22	6.3	32	824	26368
	23	6.3	34	224	7616
	24	6.3	16	VAR	VAR
	25	6.3	16	825	13200
	26	6.3	16	VAR	VAR
	27	6.3	36	222	7992
	28	6.3	8	420	3360
	29	6.3	16	416	6656
	30	6.3	8	399	3192
	31	6.3	8	416	3328
	32	6.3	36	224	8064
	33	6.3	16	873	13968
	34	6.3	16	VAR	VAR
	35	6.3	18	221	3978
	36	6.3	34	VAR	VAR
	37	6.3	6	VAR	VAR
	38	6.3	16	876	14016
	39	6.3	18	220	3960
	40	6.3	15	625	9375

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	5297.5	1296.3
PESO TOTAL (kg)			
CA50	1296.3		

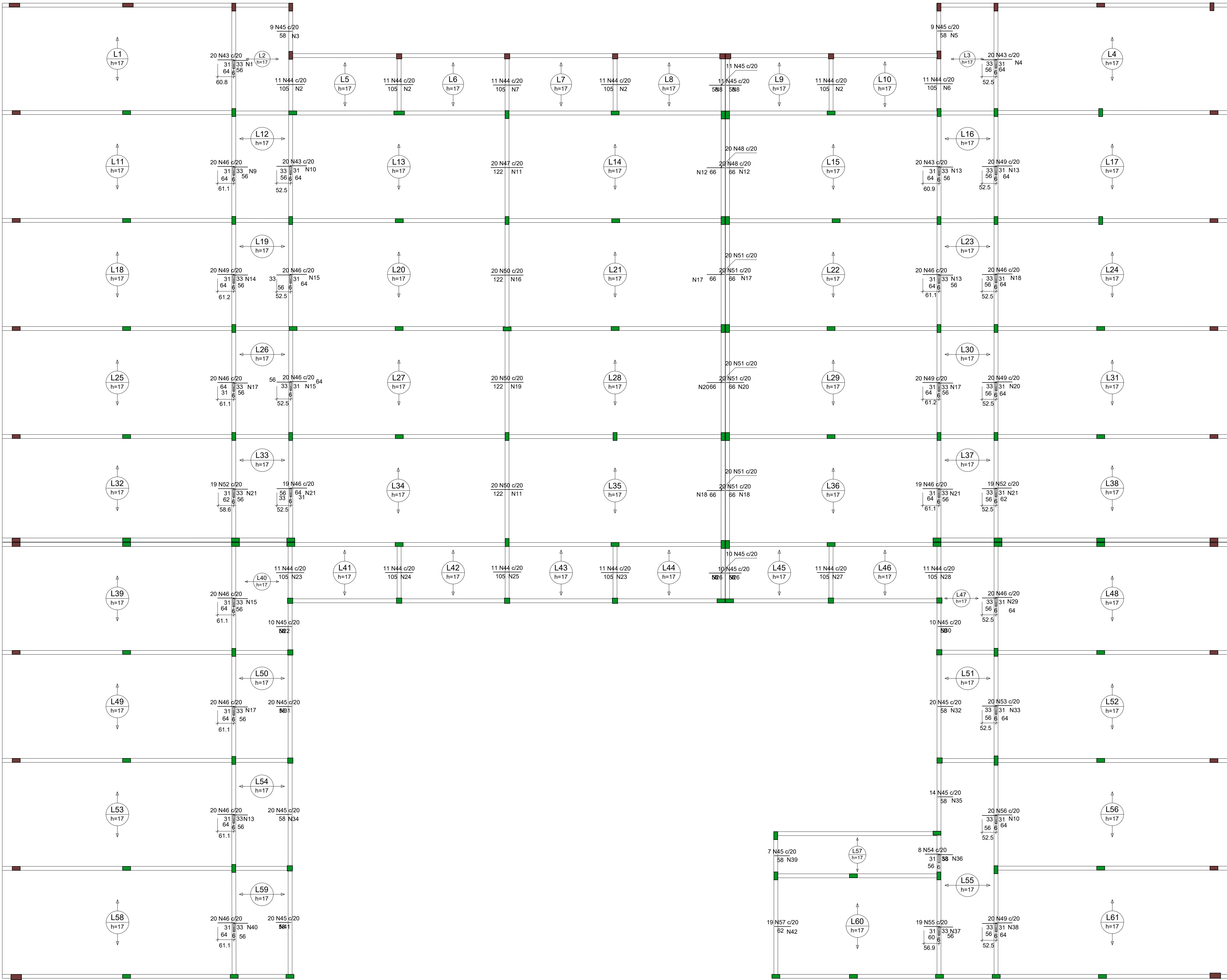
Volume de concreto (C-25) = 87.37 m³
Área de forma = 0.00 m²

Armação positiva das lajes do pavimento PRIMEIRO (Eixo X)
escala 1:75



RELAÇÃO DO AÇO					
Negativos Y					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	4	392	1568
	2	5.0	4	412	1648
	3	5.0	40	411	16440
	4	5.0	54	402	21708
	5	5.0	6	220	1320
	6	5.0	18	215	3870
	7	5.0	18	215	3870
	8	5.0	4	58	232
	9	5.0	4	7	1667
	10	5.0	17	392	6664
	11	5.0	6	395	2370
	12	5.0	6	420	2520
	13	5.0	3	409	1237
	14	5.0	6	391	2346
	15	5.0	6	395	2370
	16	5.0	23	408	9384
	17	5.0	14	405	5670
	18	5.0	9	405	3645
	19	5.0	6	388	1164
	20	5.0	12	388	4656
	21	5.0	19	404	7676
	22	5.0	28	407	2442
	23	5.0	28	407	11396
	24	5.0	14	404	5656
	25	5.0	6	389	2314
	26	5.0	7	385	2695
	27	5.0	7	395	2785
	28	5.0	7	424	2968
	29	5.0	6	411	1266
	30	5.0	7	394	2958
	31	5.0	14	404	5656
	32	5.0	14	402	5432
	33	5.0	6	215	1290
	34	5.0	14	392	5488
	35	5.0	35	421	24717
	36	5.0	35	421	14735
	37	5.0	8	411	3288
	38	5.0	6	203	1218
	39	5.0	6	403	2418
	40	5.0	6	405	2430
41	5.0	6	404	2424	
42	5.0	6	402	2412	
43	5.0	6	224	1356	
44	5.0	8	382	3044	
45	5.0	6	392	2352	
46	5.0	12	213	2556	
47	5.0	3	411	1233	
48	5.0	3	397	1191	
49	5.0	6	380	1140	
50	5.0	3	409	1227	
51	5.0	6	214	1284	
52	5.0	6	213	1278	
53	5.0	7	392	2784	
54	5.0	7	401	2807	
55	5.0	6	212	1272	
56	5.0	6	208	1248	
57	5.0	6	280	1740	
58	5.0	6	319	1914	
59	5.0	6	306	1818	
60	5.0	4	405	1620	
61	5.0	4	400	1600	
62	5.0	3	205	615	
63	5.0	3	287	861	
64	5.0	3	319	957	
65	5.0	4	395	1580	
66	5.0	3	395	1185	
CA50	67	6.3	87	66	5742
	68	6.3	43	122	5246
	69	6.3	33	105	3465
	70	6.3	353	58	20474
	71	6.3	162	122	19764
	72	6.3	119	122	14586
	73	6.3	625	122	76250
	74	6.3	86	120	10320
	75	6.3	85	84	5440
	76	6.3	127	84	21864
	77	6.3	127	66	8382
	78	6.3	43	122	5246
	79	6.3	39	370	3270
	80	6.3	30	62	1860
	81	6.3	30	66	2838

Volume de concreto (C-25) = 0.00 m³
Área de forma = 0.00 m²



RELAÇÃO DO AÇO				
Negativos X				
AÇO	N	DIAM (mm)	QUANT	C.TOTAL (cm)
CA80	1	5.0	6	392
	2	5.0	24	214
	3	5.0	3	176
	4	5.0	6	392
	5	5.0	3	176
	6	5.0	6	211
	7	5.0	6	217
	8	5.0	6	219
	9	5.0	6	401
	10	5.0	12	404
	11	5.0	13	394
	12	5.0	8	392
	13	5.0	24	402
	14	5.0	6	402
	15	5.0	18	405
	16	5.0	7	406
	17	5.0	26	402
	18	5.0	14	401
	19	5.0	7	403
CA50	20	5.0	14	402
	21	5.0	24	388
	22	5.0	24	388
	23	5.0	12	213
	24	5.0	6	212
	25	5.0	6	217
	26	5.0	6	210
	27	5.0	6	212
	28	5.0	6	212
	29	5.0	6	212
	30	5.0	3	195
	31	5.0	3	408
	32	5.0	3	409
	33	5.0	6	400
	34	5.0	3	407
	35	5.0	3	274
	36	5.0	6	158
	37	5.0	6	376
	38	5.0	6	400
CA60	39	5.0	3	146
	40	5.0	6	404
	41	5.0	3	408
	42	5.0	3	376
	43	6.3	80	184
	44	6.3	132	105
	45	6.3	181	58
	46	6.3	258	184
	47	6.3	20	122
	48	6.3	40	66
	49	6.3	100	184
	50	6.3	60	122
	51	6.3	120	66
	52	6.3	38	182
	53	6.3	20	184
	54	6.3	8	176
	55	6.3	19	180
	56	6.3	20	184
	57	6.3	19	62
RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)	
CA50	6.3	1455.5	356.2	
CA60	5.0	1165.3	179.6	
PESO TOTAL (kg)				
CA50			356.2	
CA60			179.6	
Volume de concreto (C-25) = 0.00 m³				
Área de forma = 0.00 m²				

Armação negativa das lajes do pavimento PRIMEIRO (Eixo X)
escala 1:75



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E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IF Sertão PE

ENDEREÇO:
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE

DESCRIÇÃO:
LAJES NEGATIVAS EIXO X (BLOCO ADM - PARTE 2.)

ASSINATURA CARIMBO - DIREÇÃO GERAL

ESCALA:
1/75

DATA:
ABRIL/2025

ASSINATURA CARIMBO - RESPONSÁVEL TÉCNICO

19/26

Wilson Nery da Cunha - CREA BA 14748



Planta de vigotas pré-moldadas
escala 1:75



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Petrolina/PE | CEP: 56.302-100

PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IF Sertão PE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO
LAJES VIGOTAS DAS LAJES PRÉ-MOLDADAS (BLOCO ADM - PARTE 2.)

ASSINATURA CARIMBO - DIREÇÃO GERAL

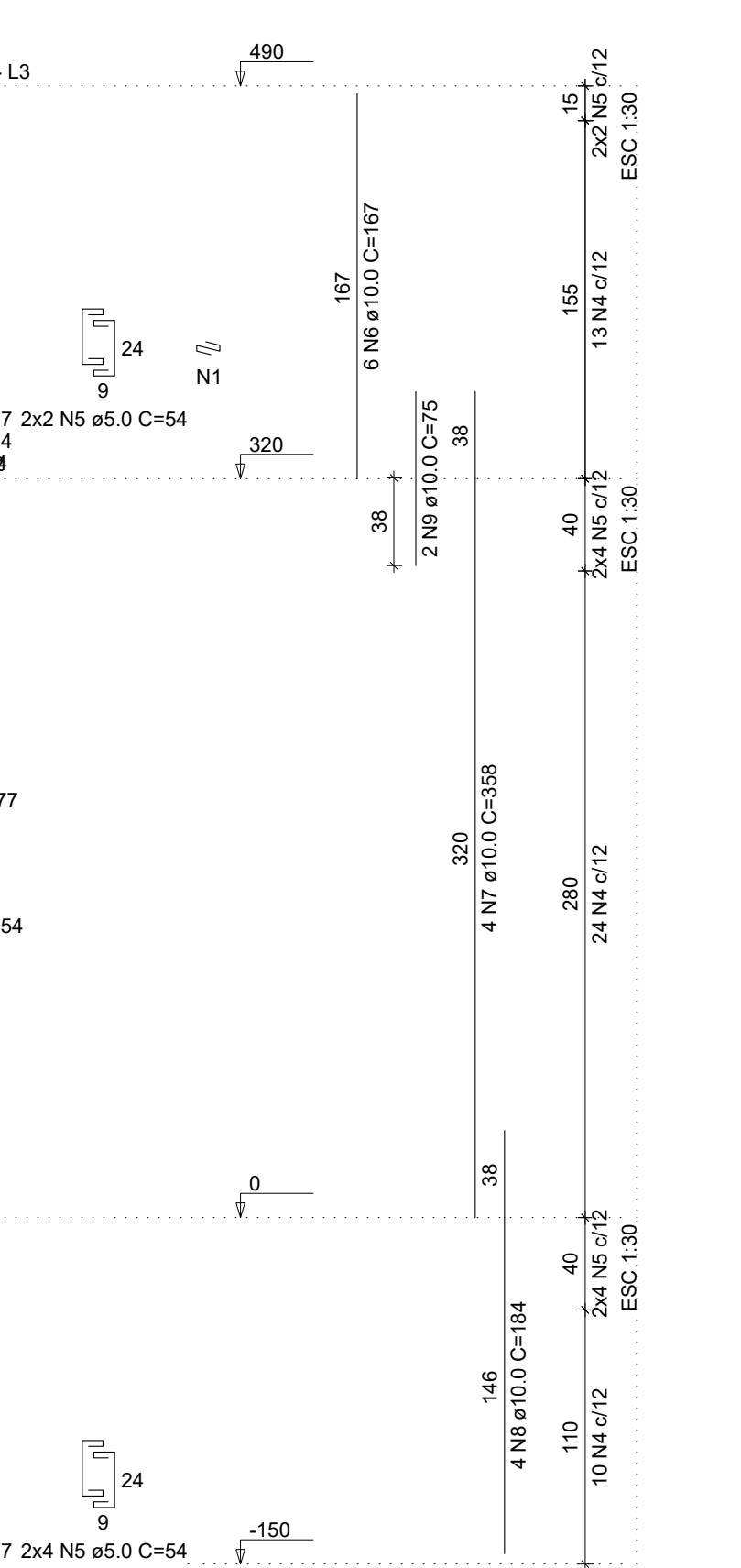
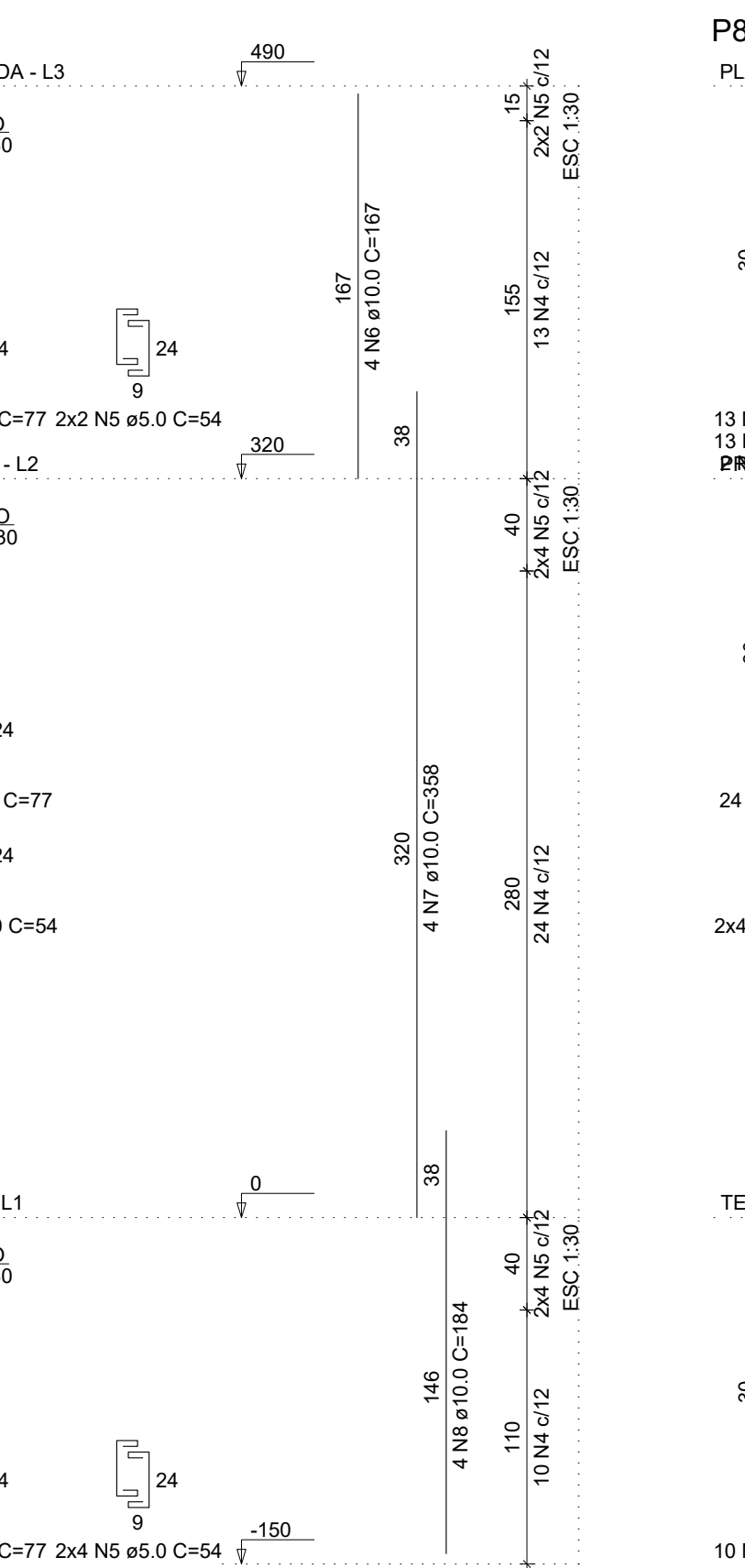
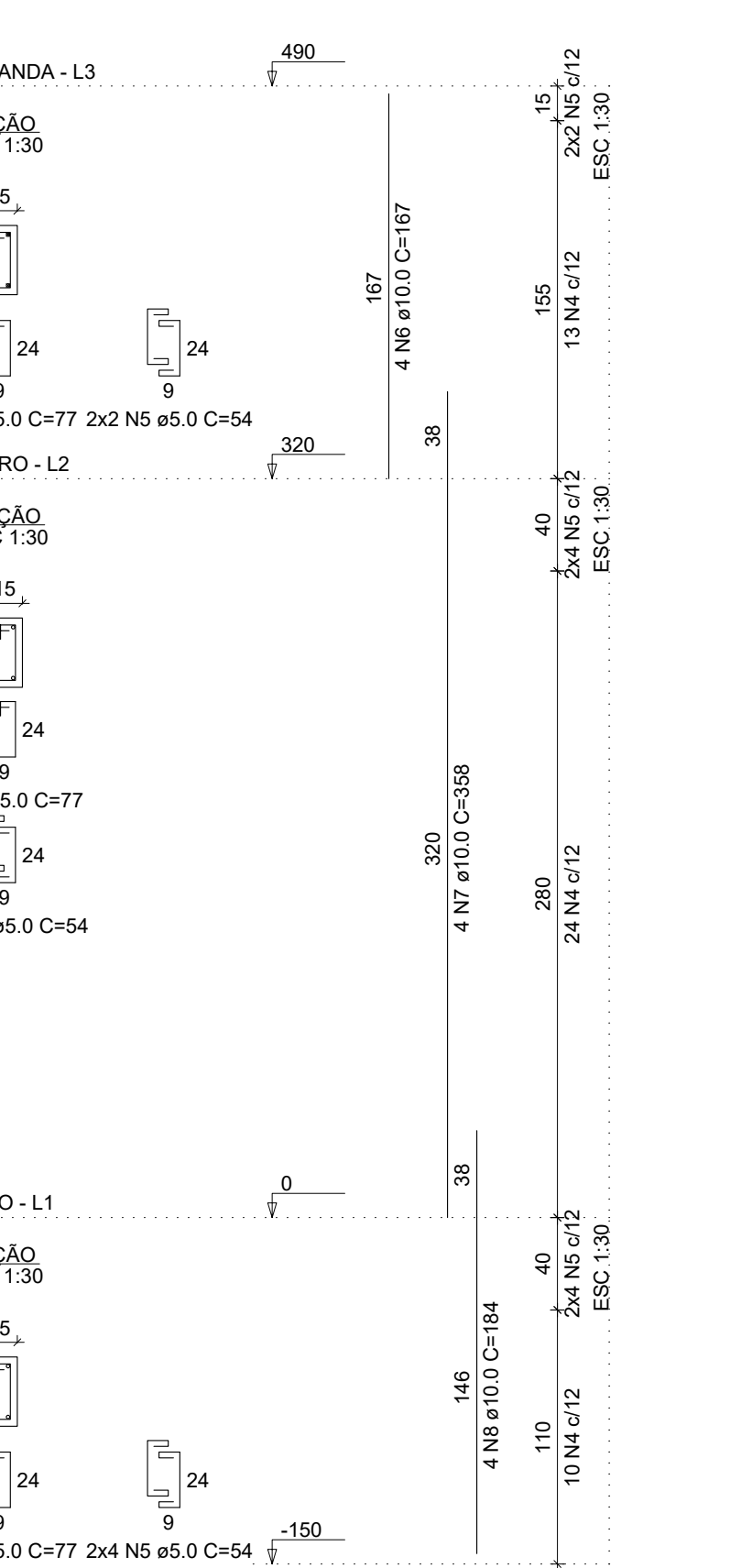
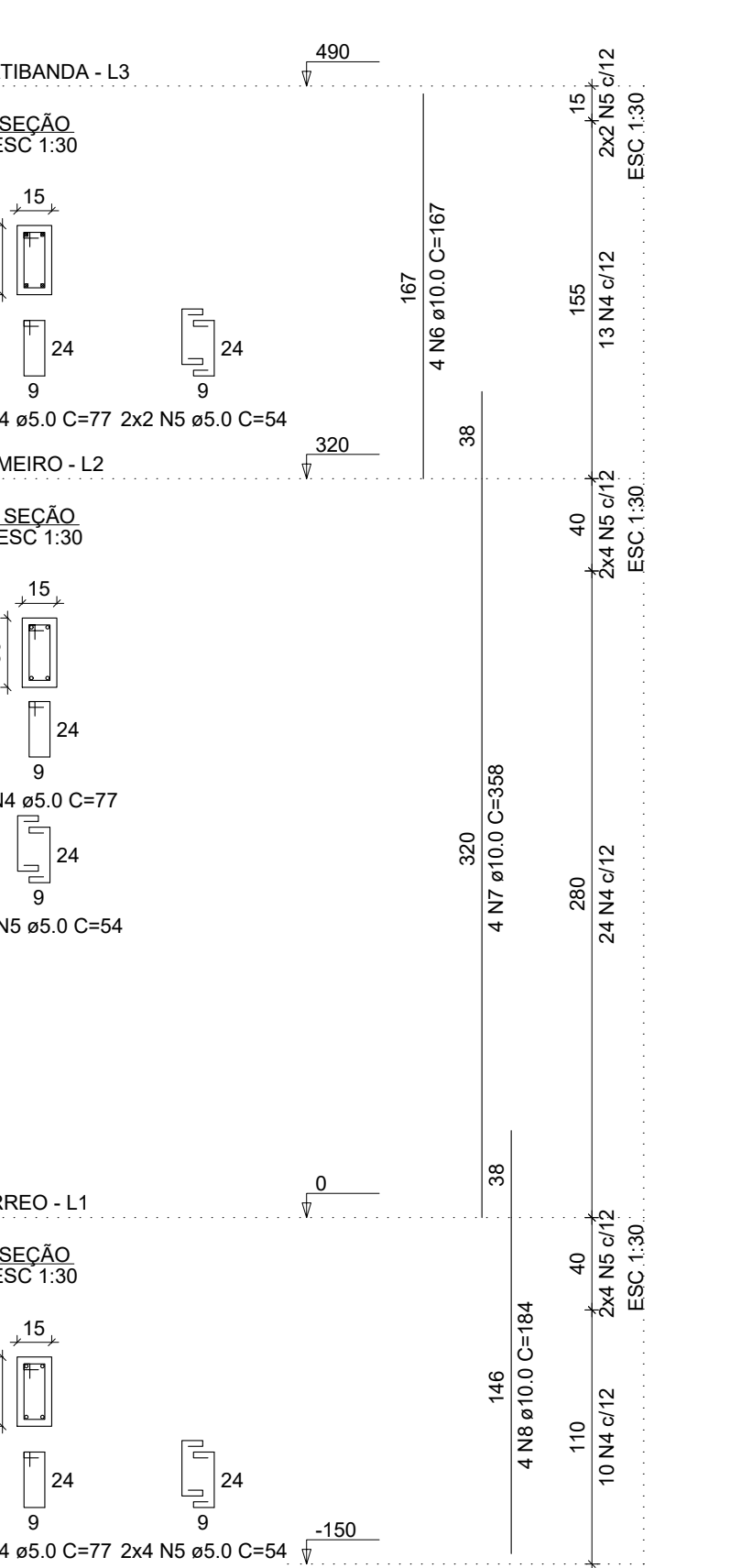
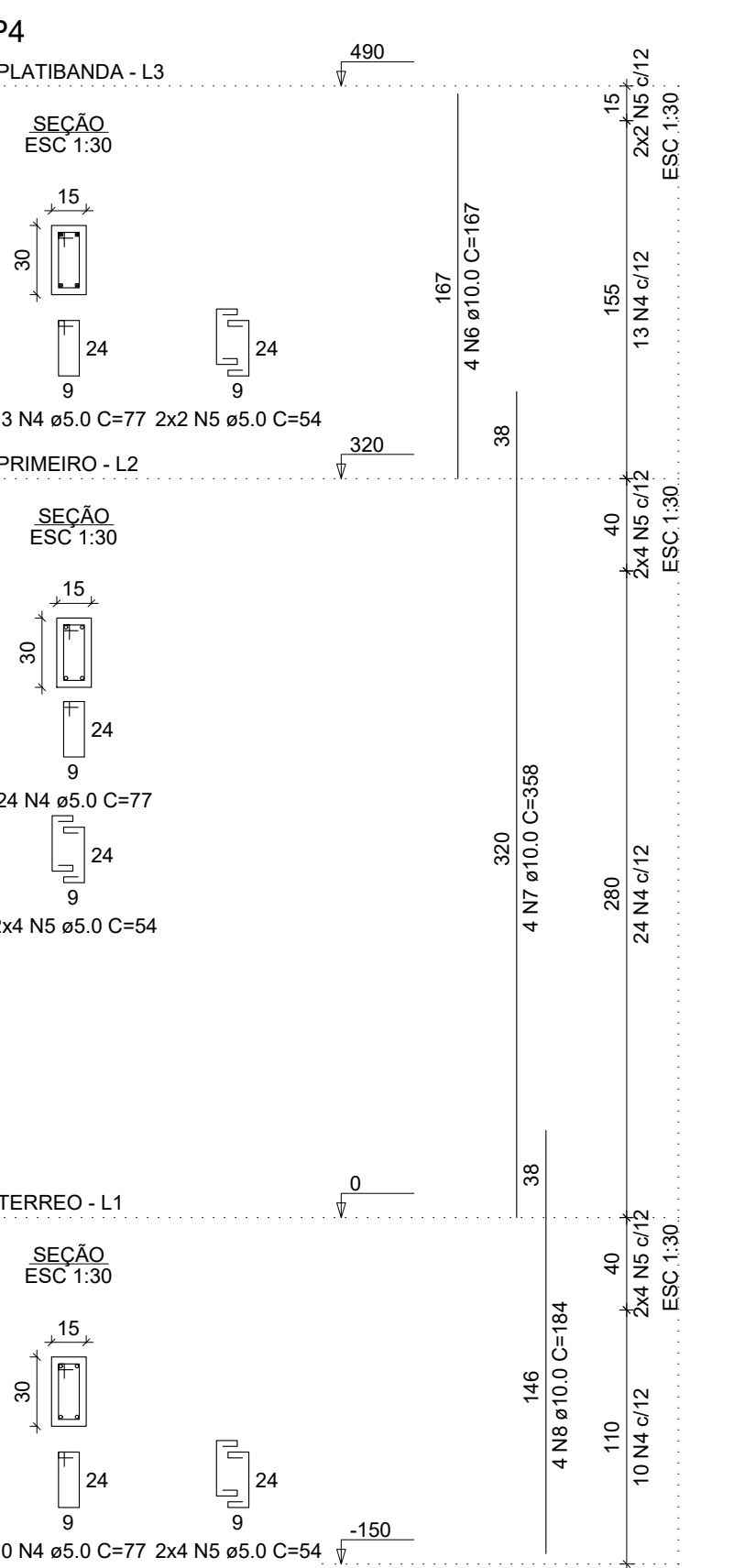
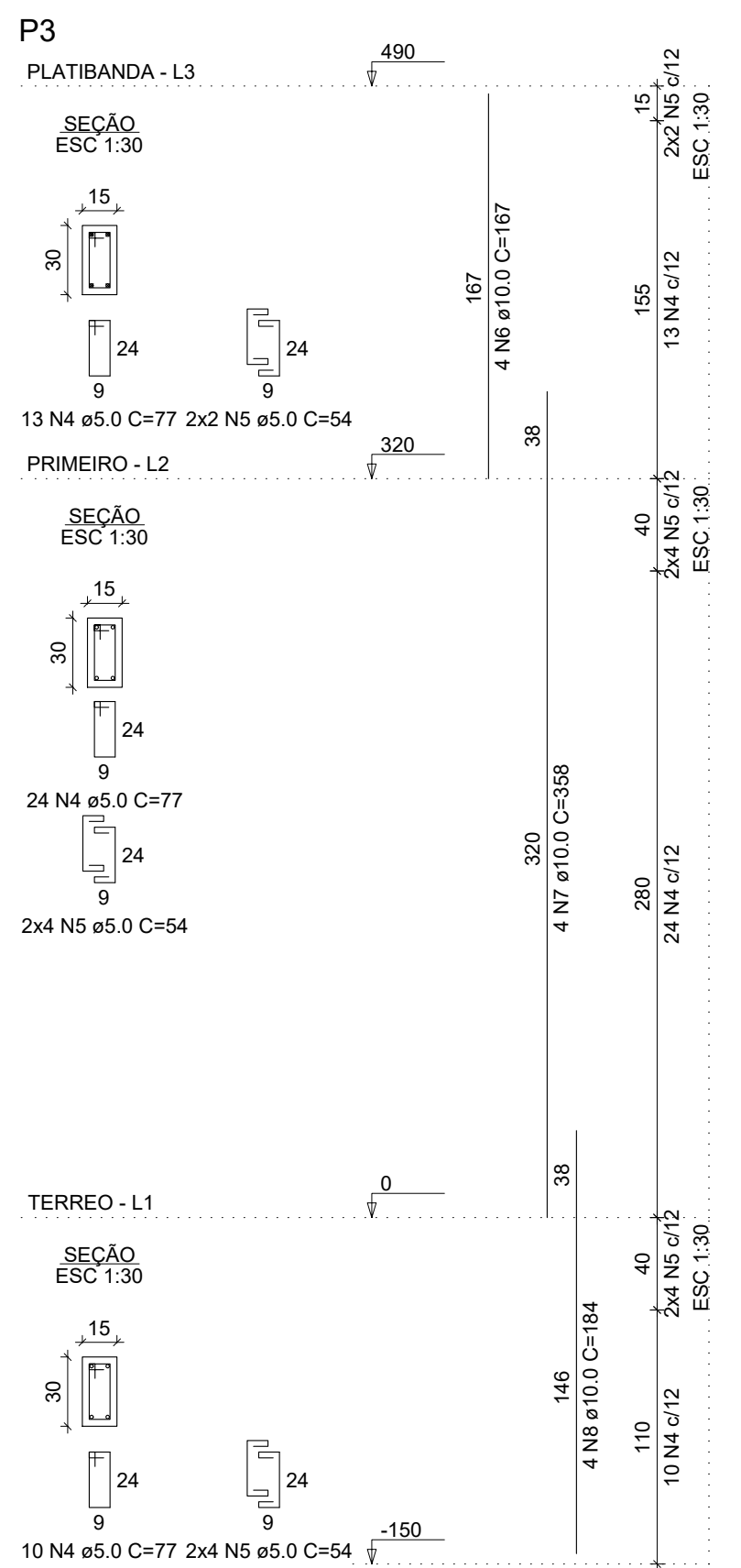
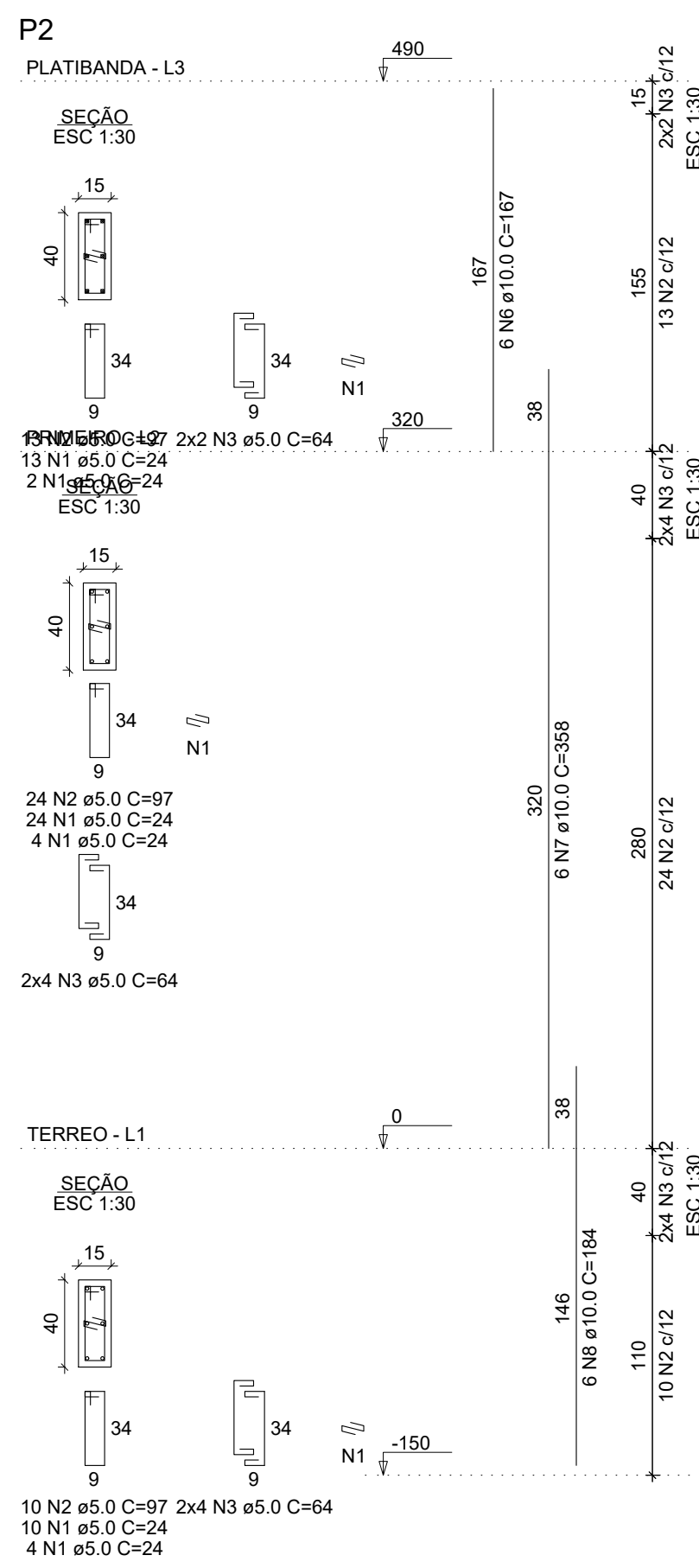
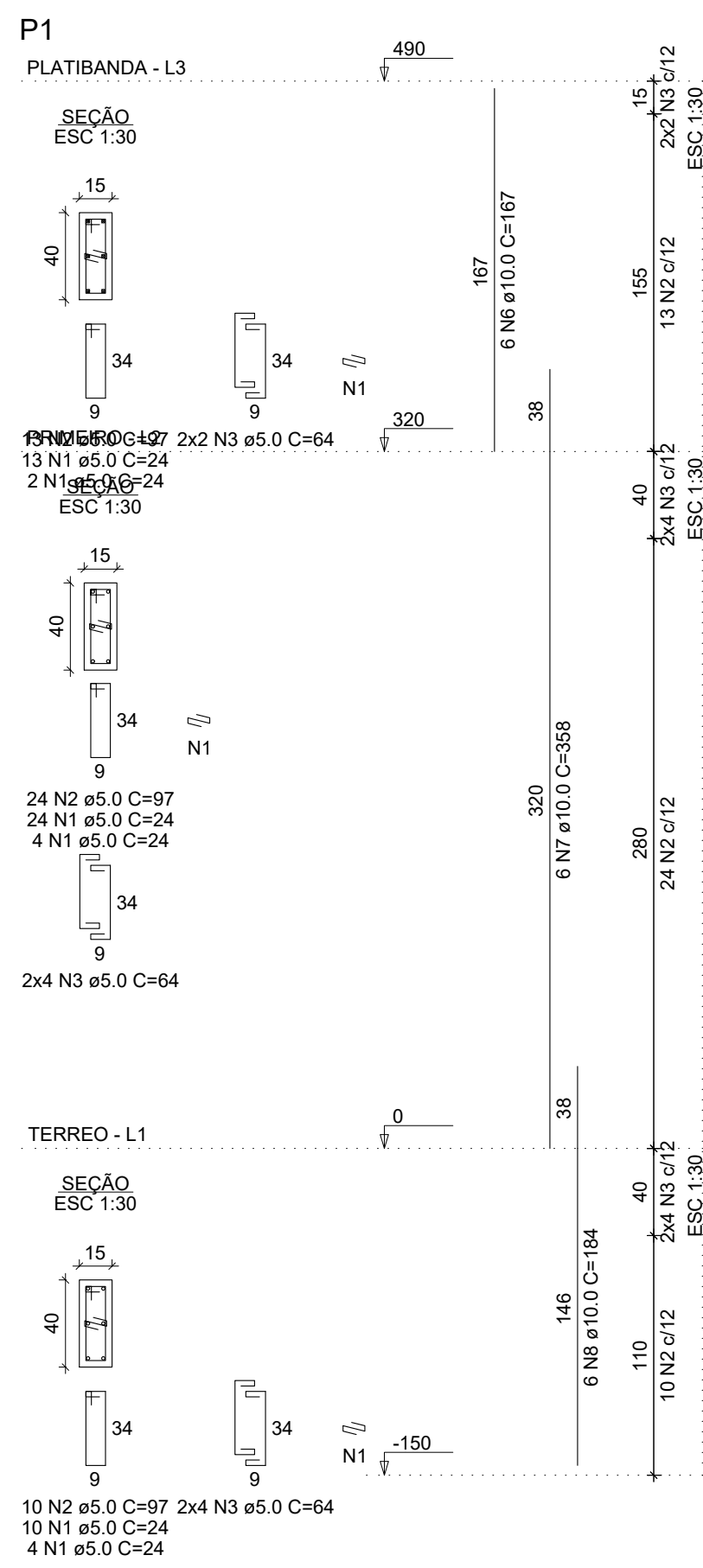
ESCALA:
1/75

ASSINATURA CARIMBO - RESPONSÁVEL TÉCNICO

DATA:
ABRIL/2025

FINANÇAS:
20/26

Wilson Nery da Cunha - CREA BA 14748



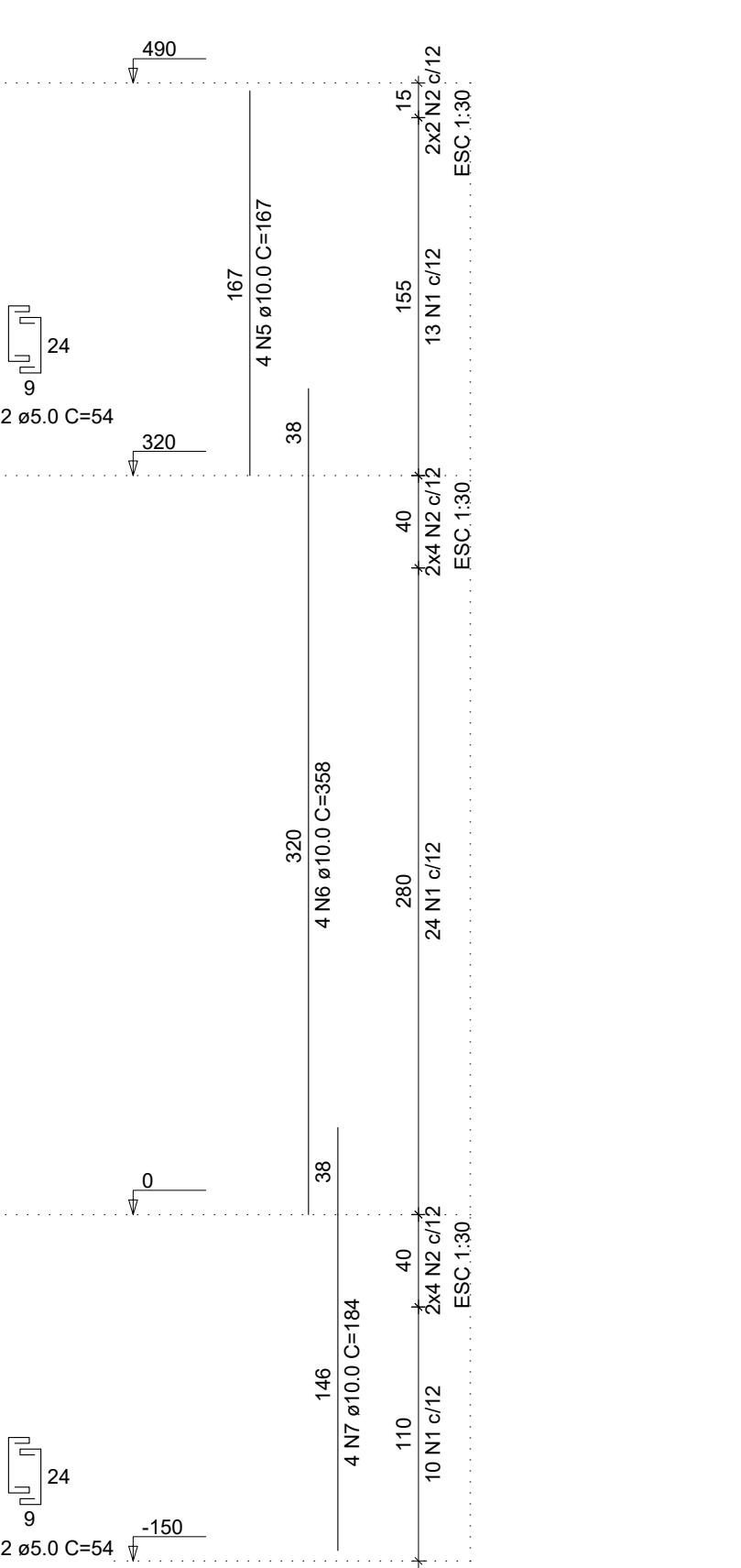
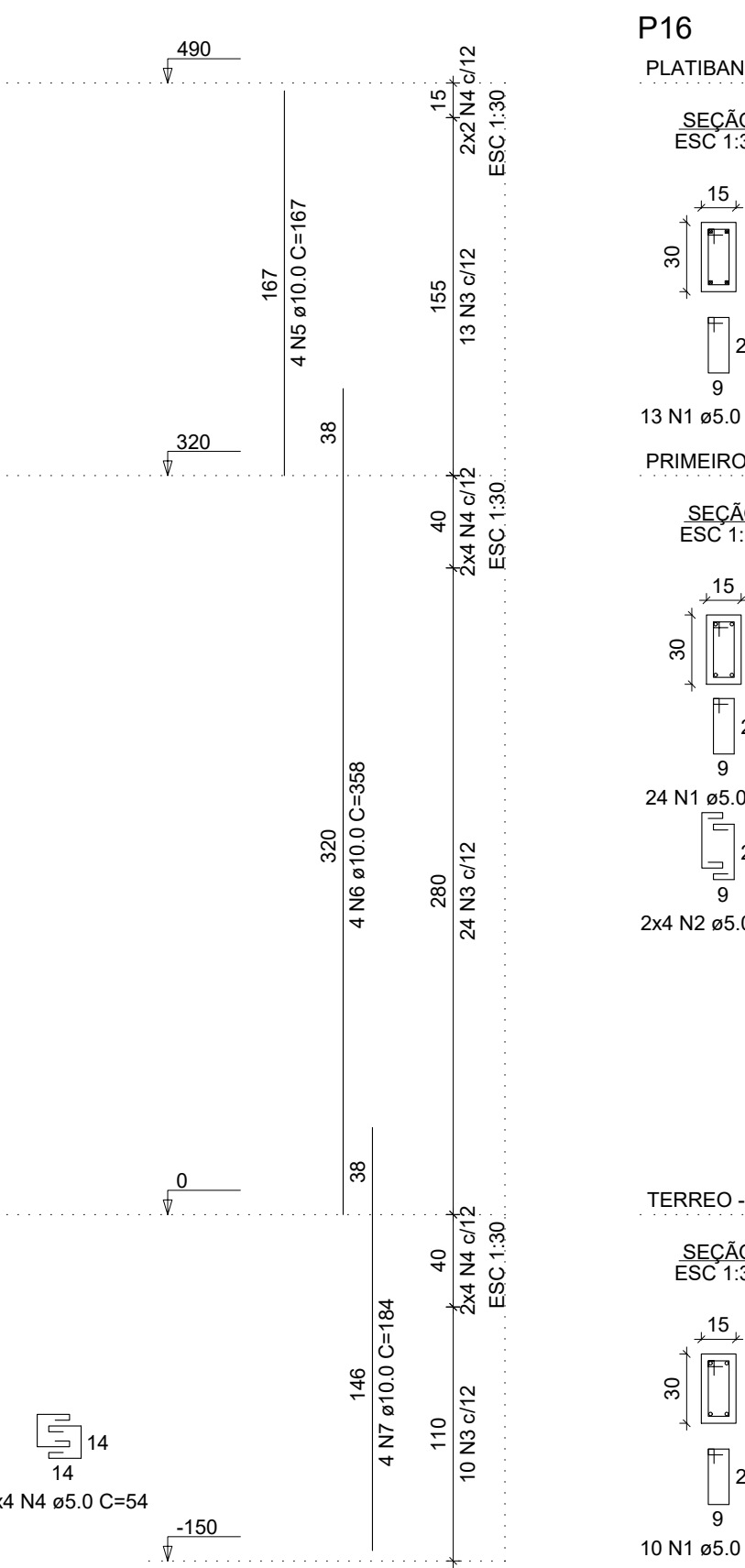
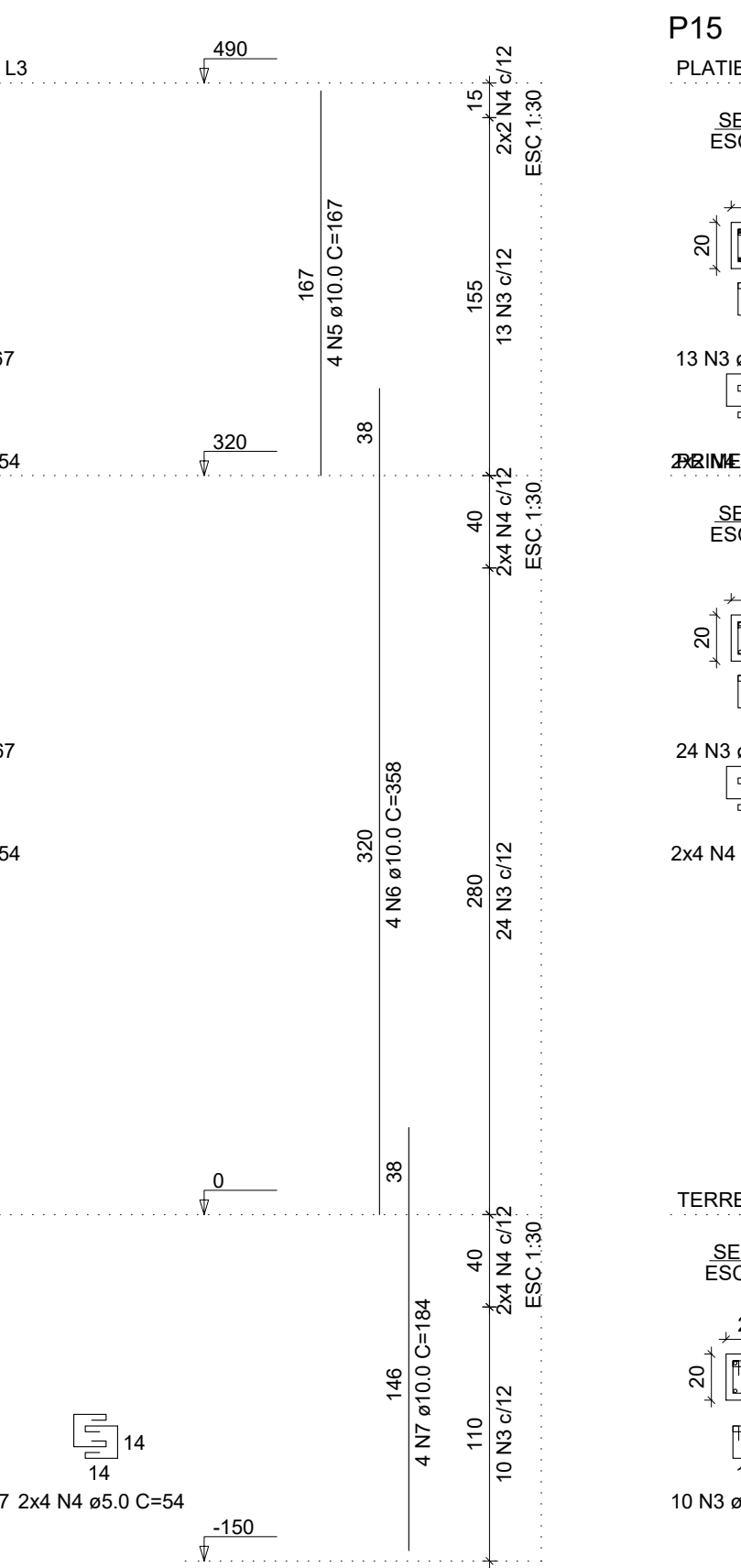
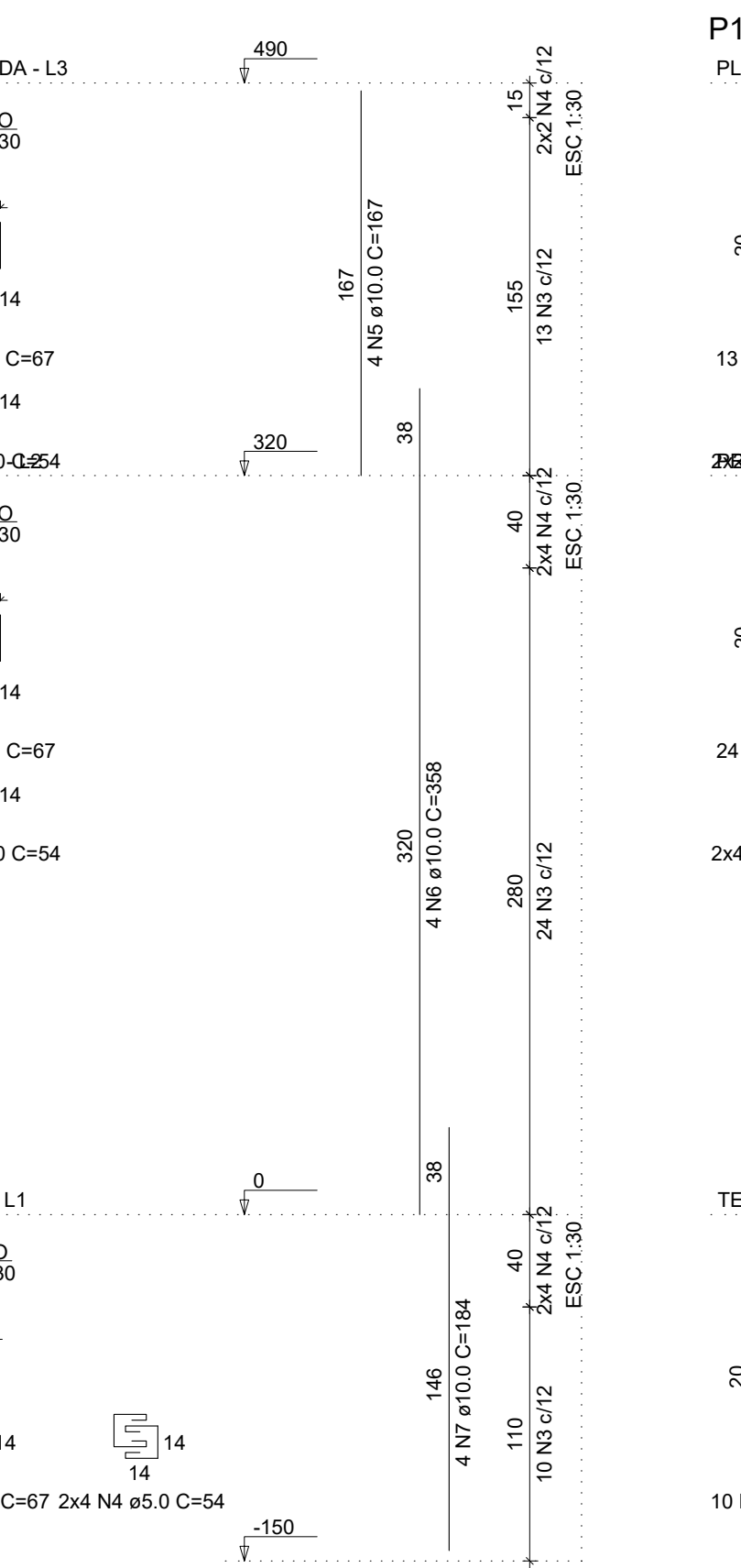
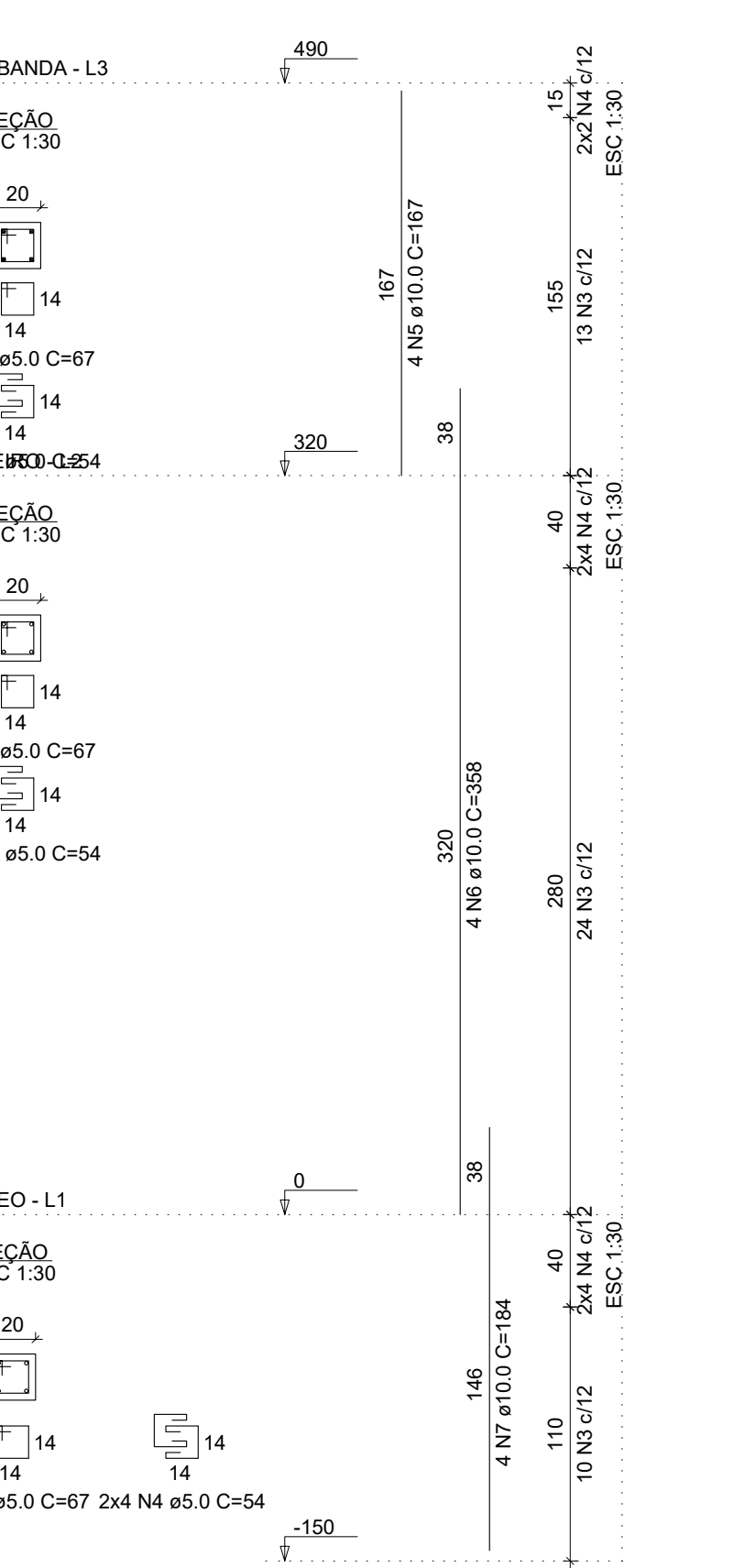
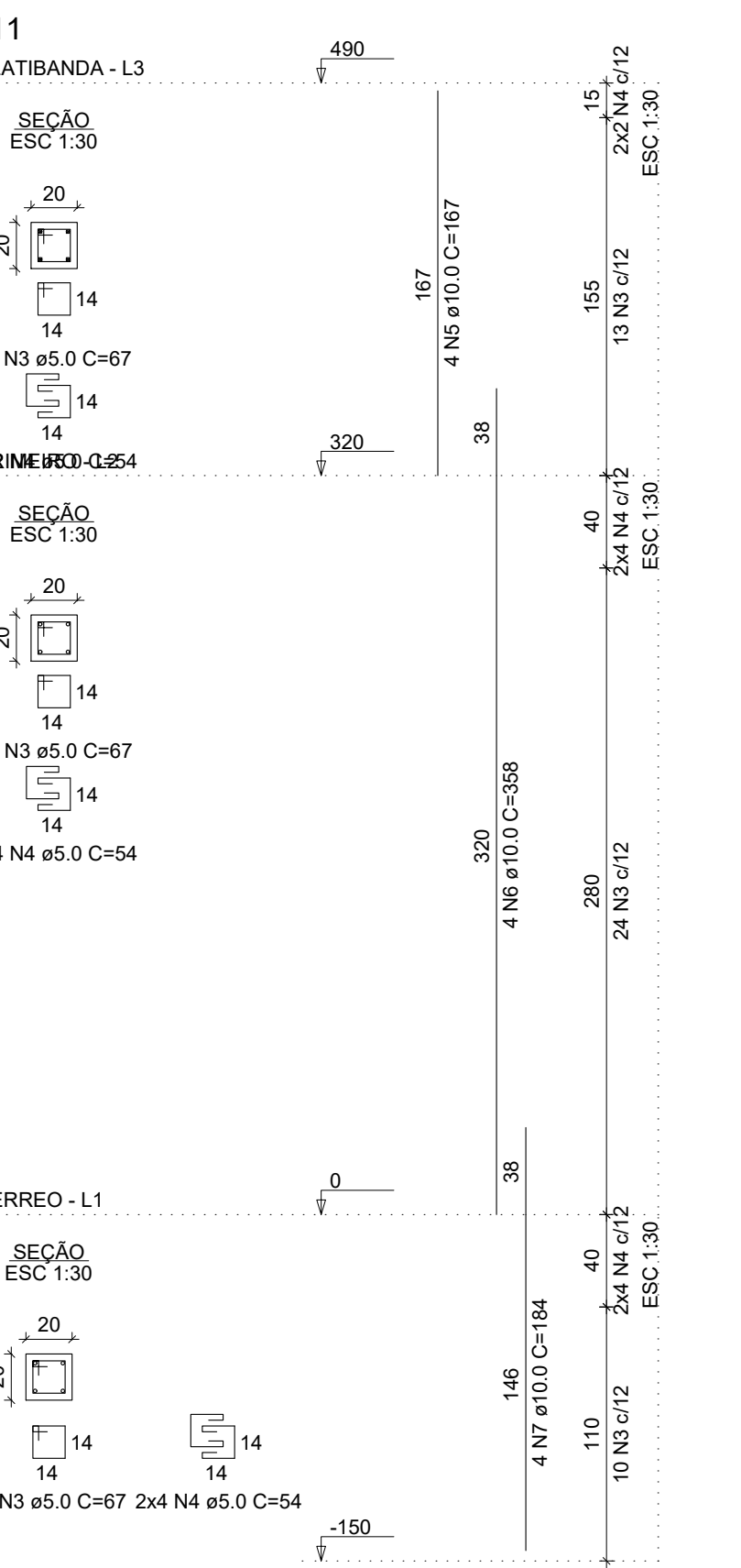
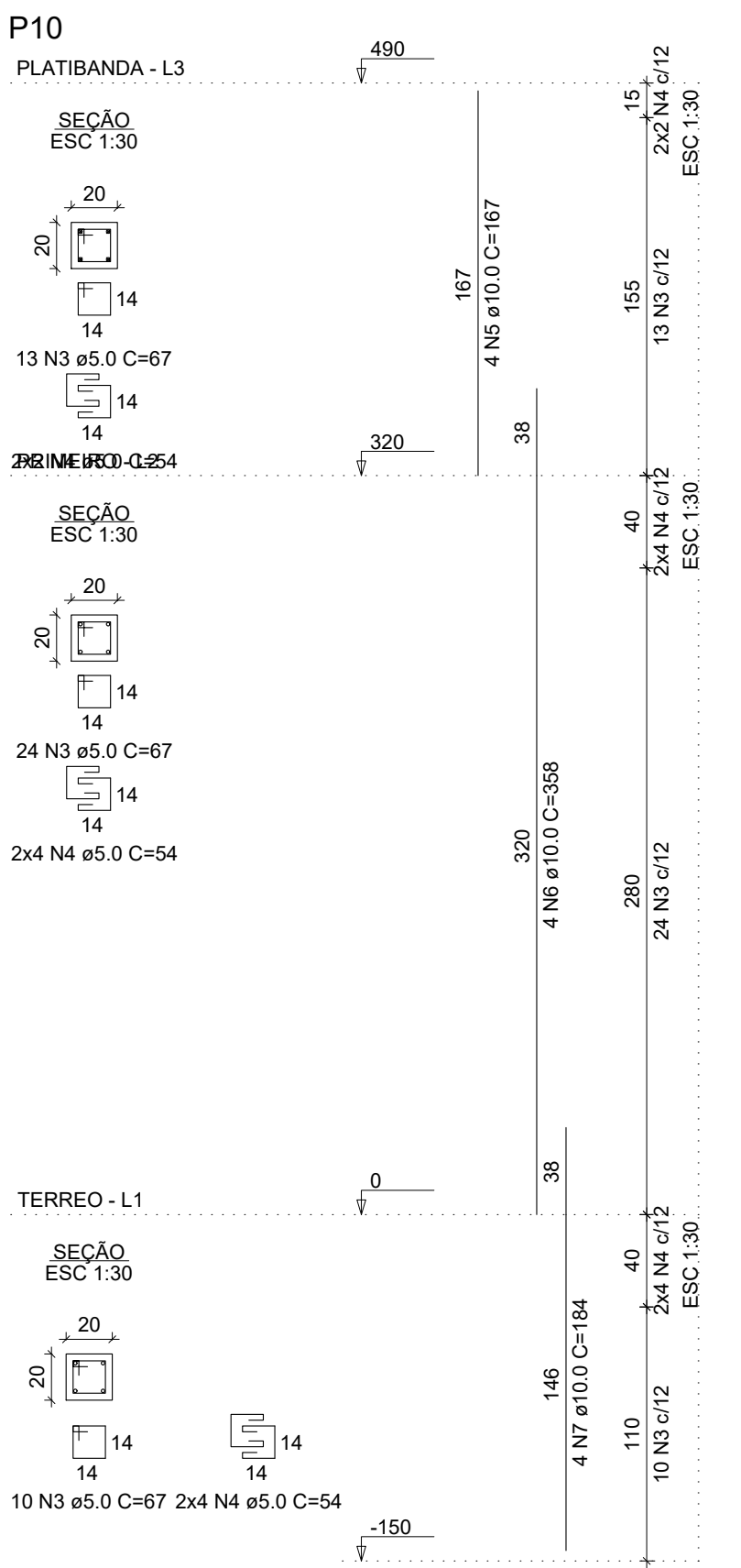
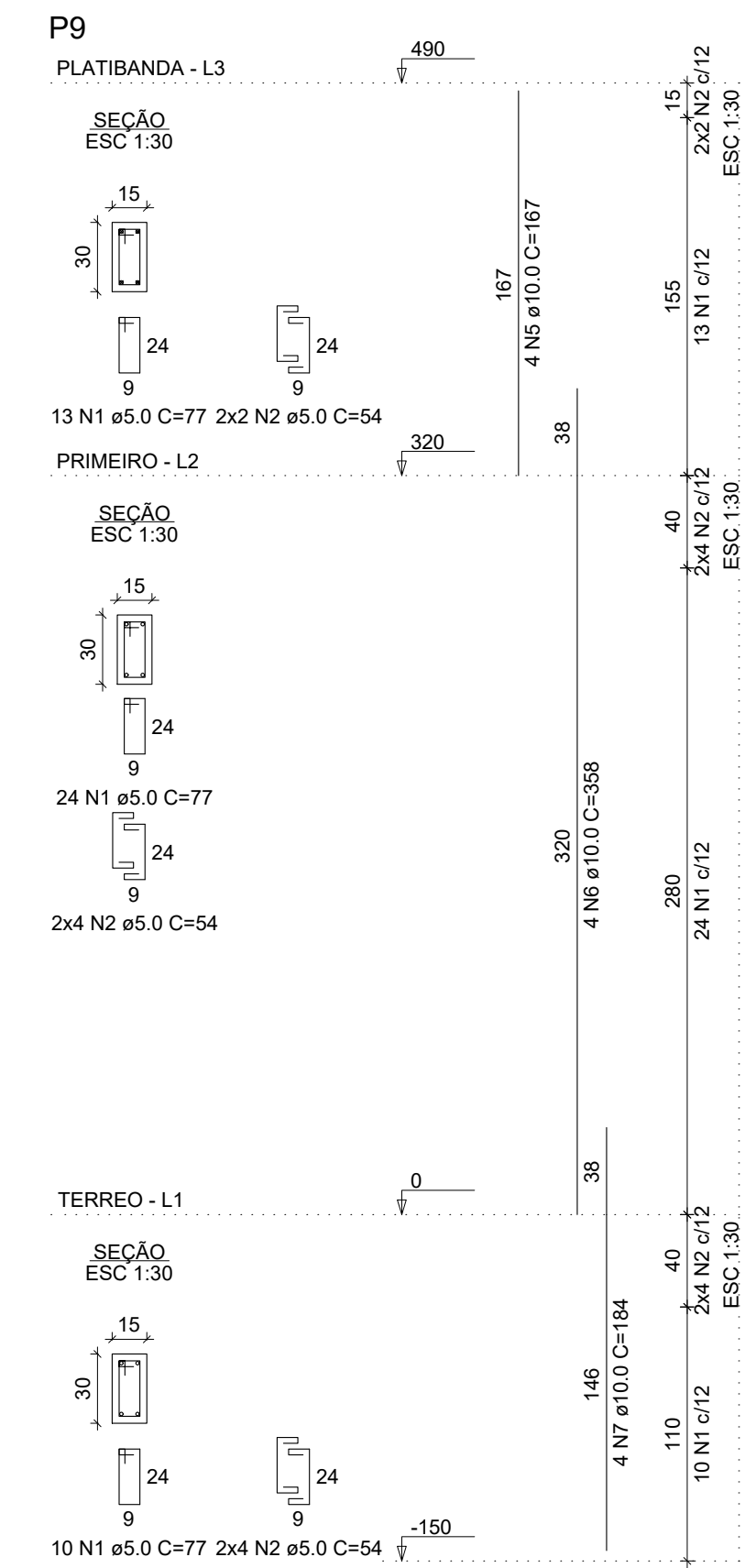
RELAÇÃO DO AÇO

CAO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P1-L3	1	5.0	129	24	3096
P2-L3	2	5.0	94	37	3118
P3-L3	3	5.0	64	64	2590
P4-L3	4	5.0	282	77	2174
P5-L3	5	5.0	120	54	6480
P6-L3	6	10.0	38	167	6366
P7-L3	7	10.0	38	358	12888
P8-L3	8	10.0	184	164	6024
P9-L3	9	10.0	2	75	150

RESUMO DO AÇO

CAO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CAO	5.0	260.1	160.3
CAO	10.0	429.7	66.2
PESO TOTAL (kg)			160.3
CAO			66.2

Volume de concreto (C-25) = 2.50 m³
Área de forma = 48.84 m²



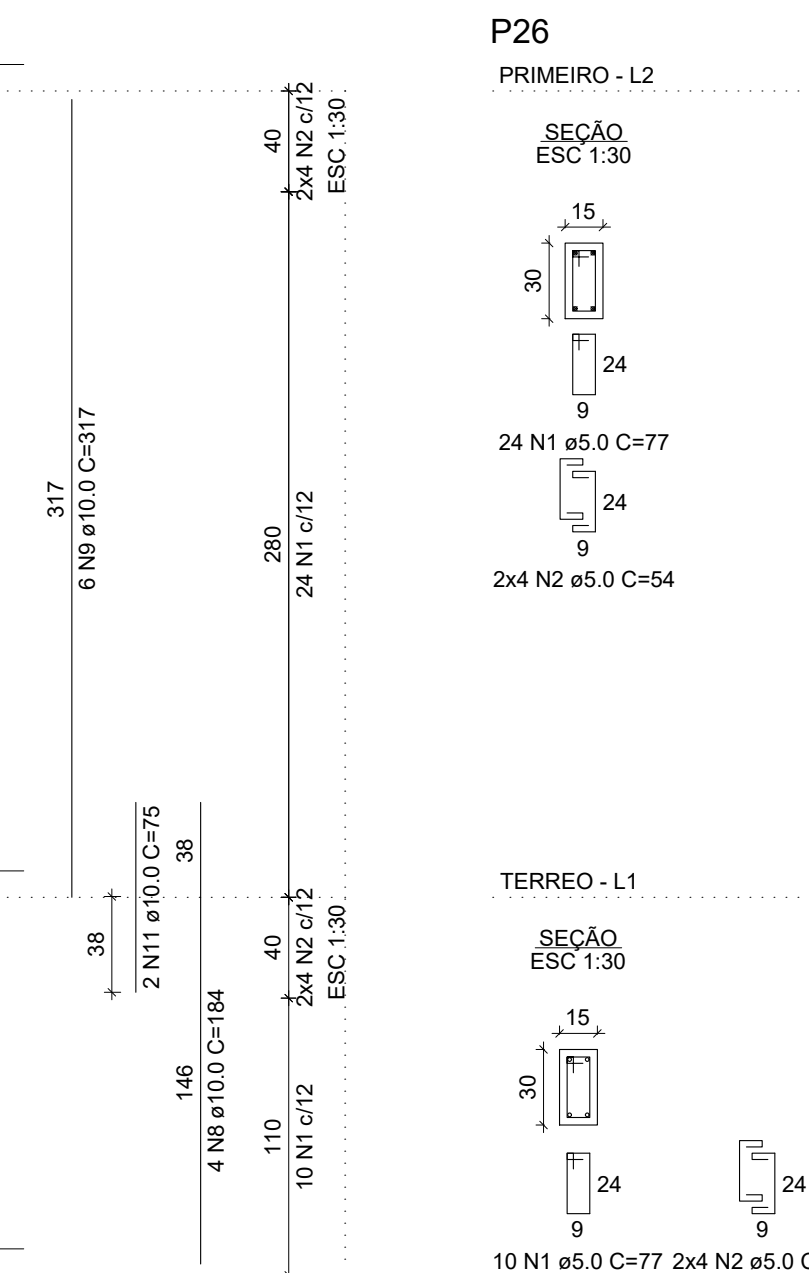
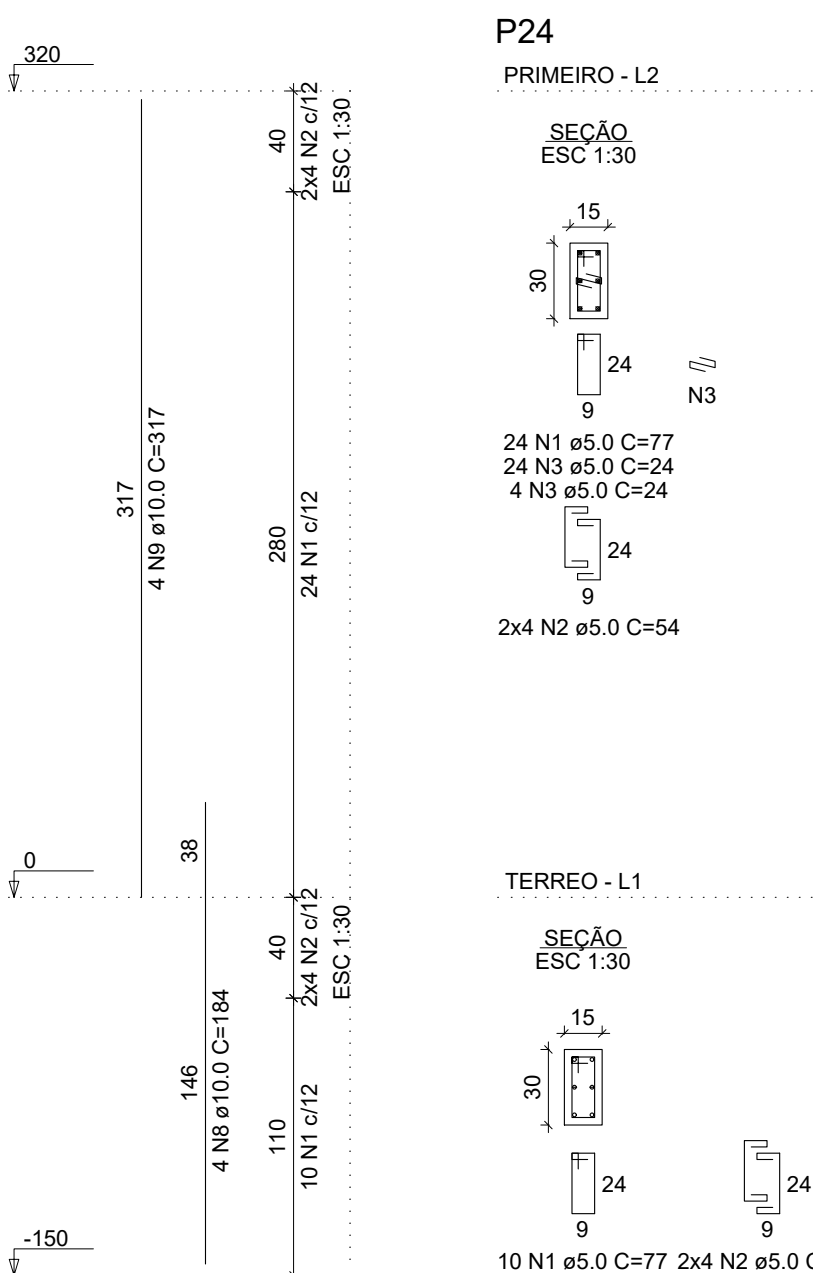
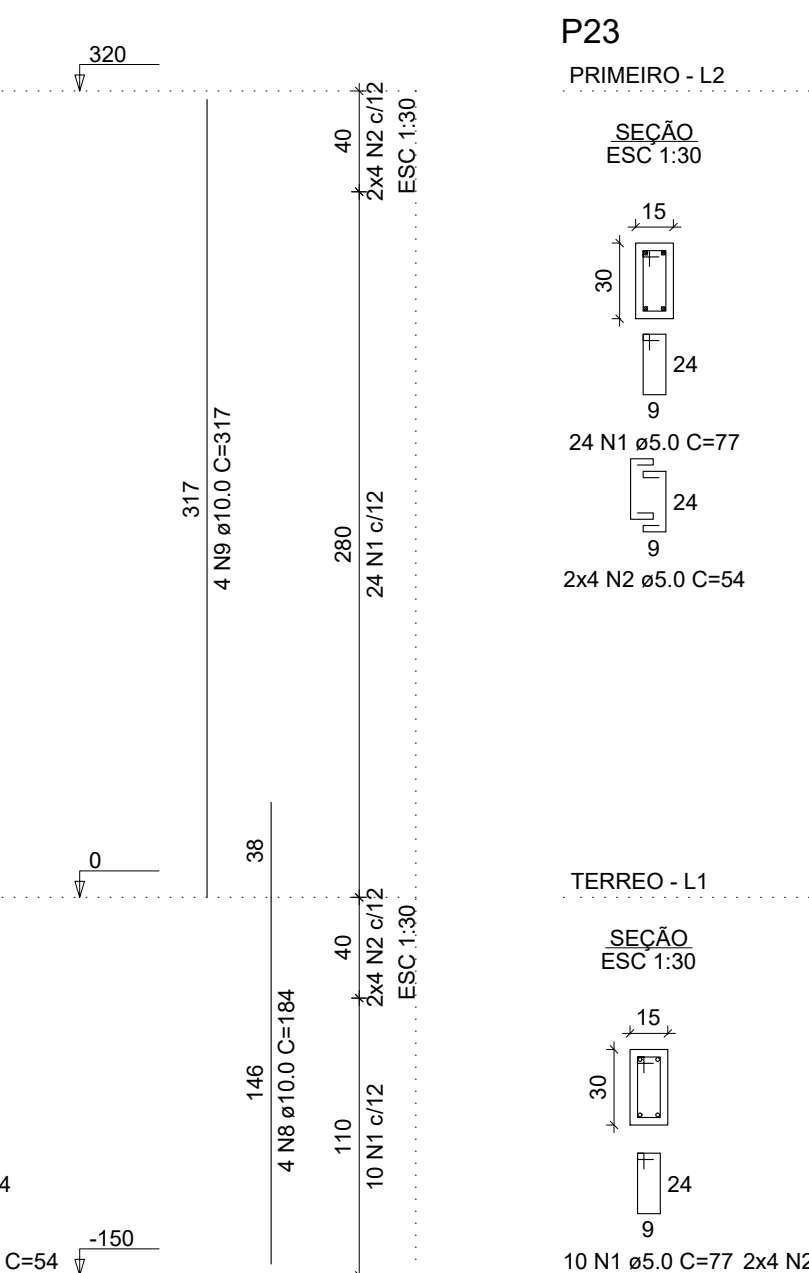
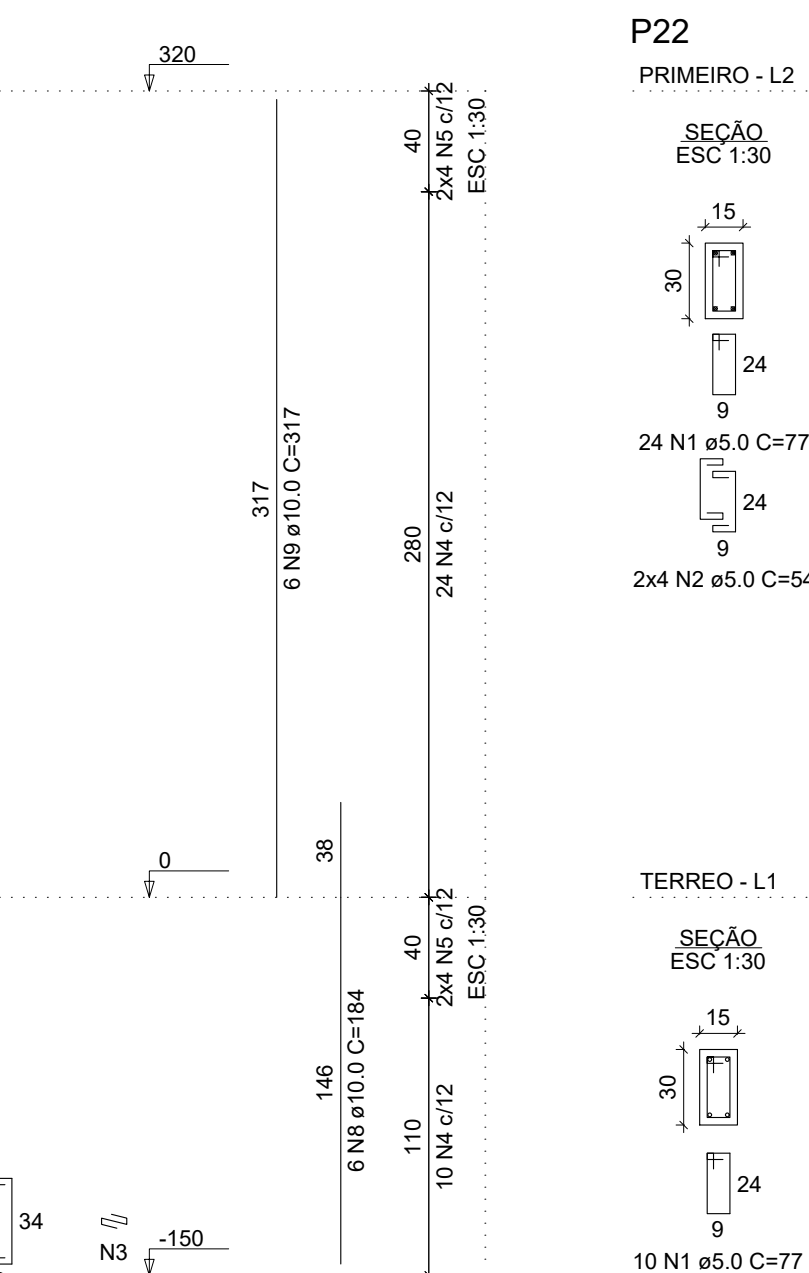
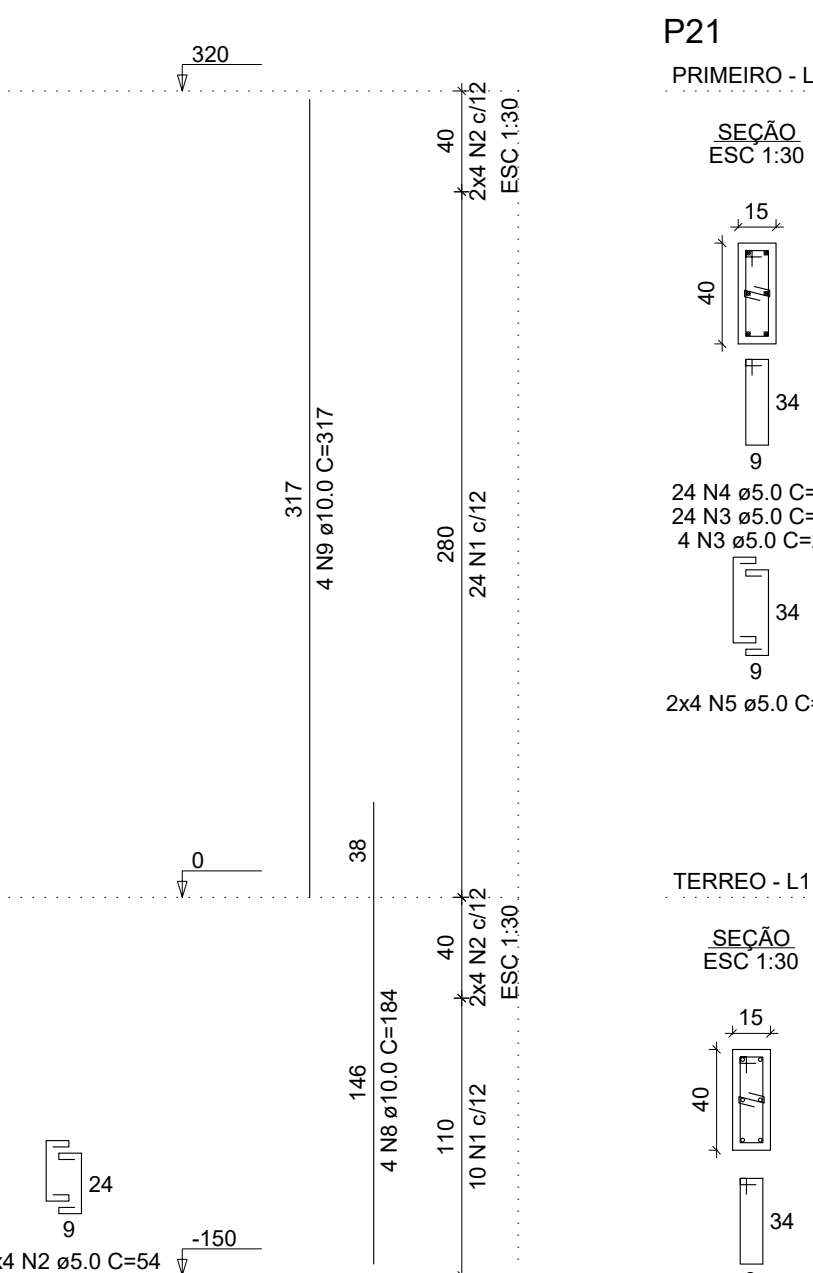
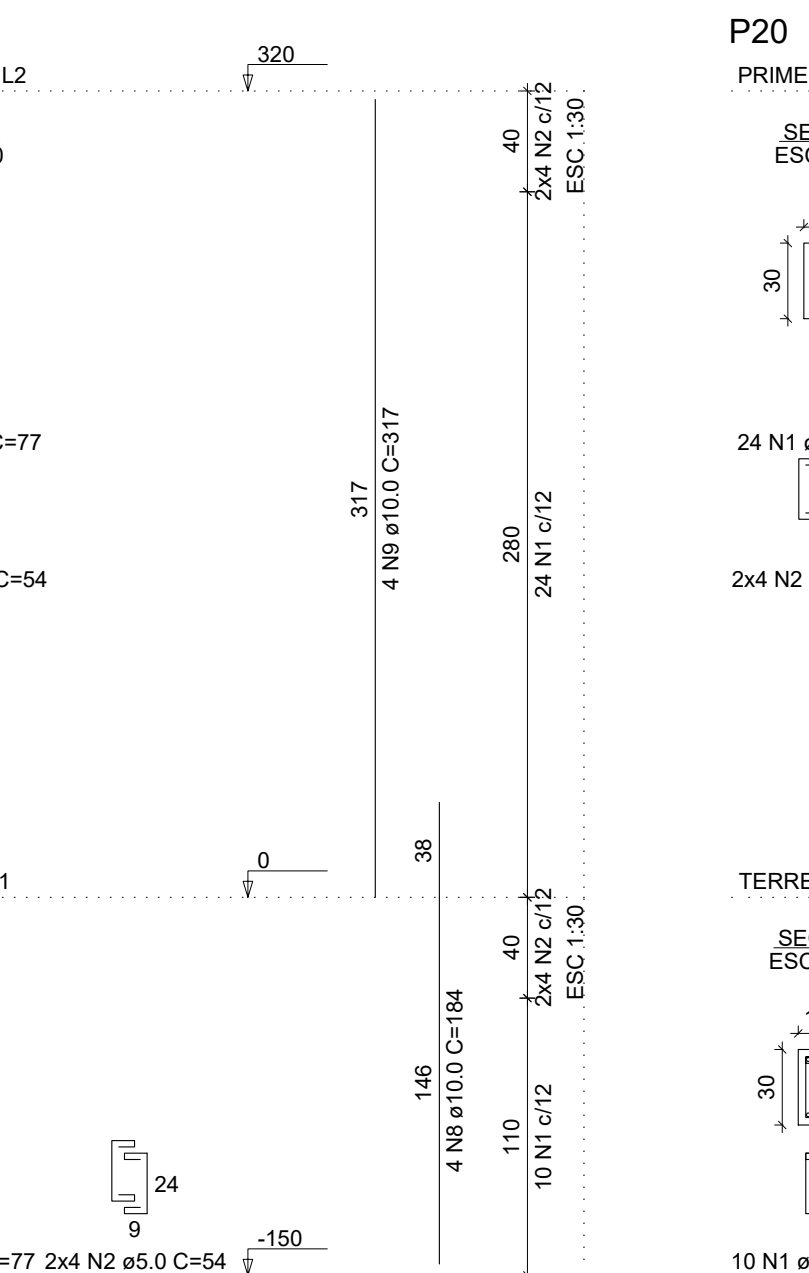
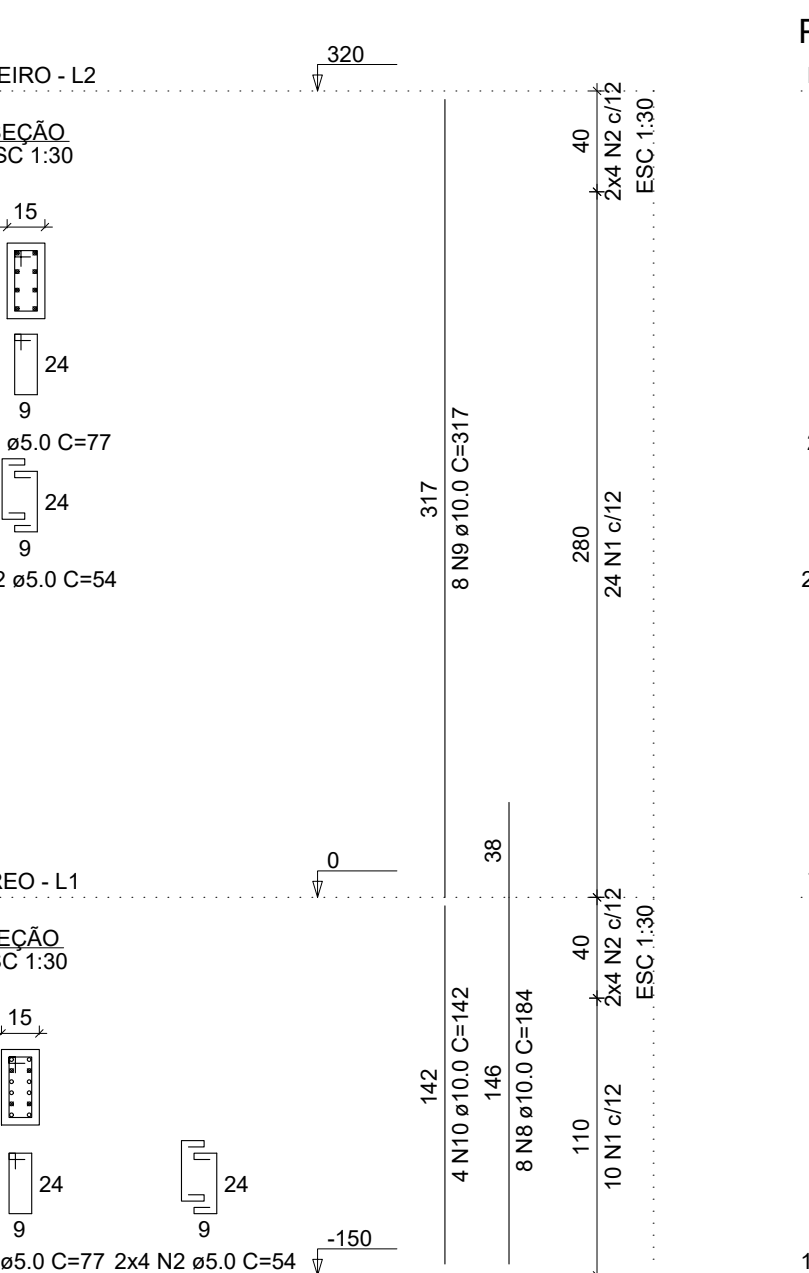
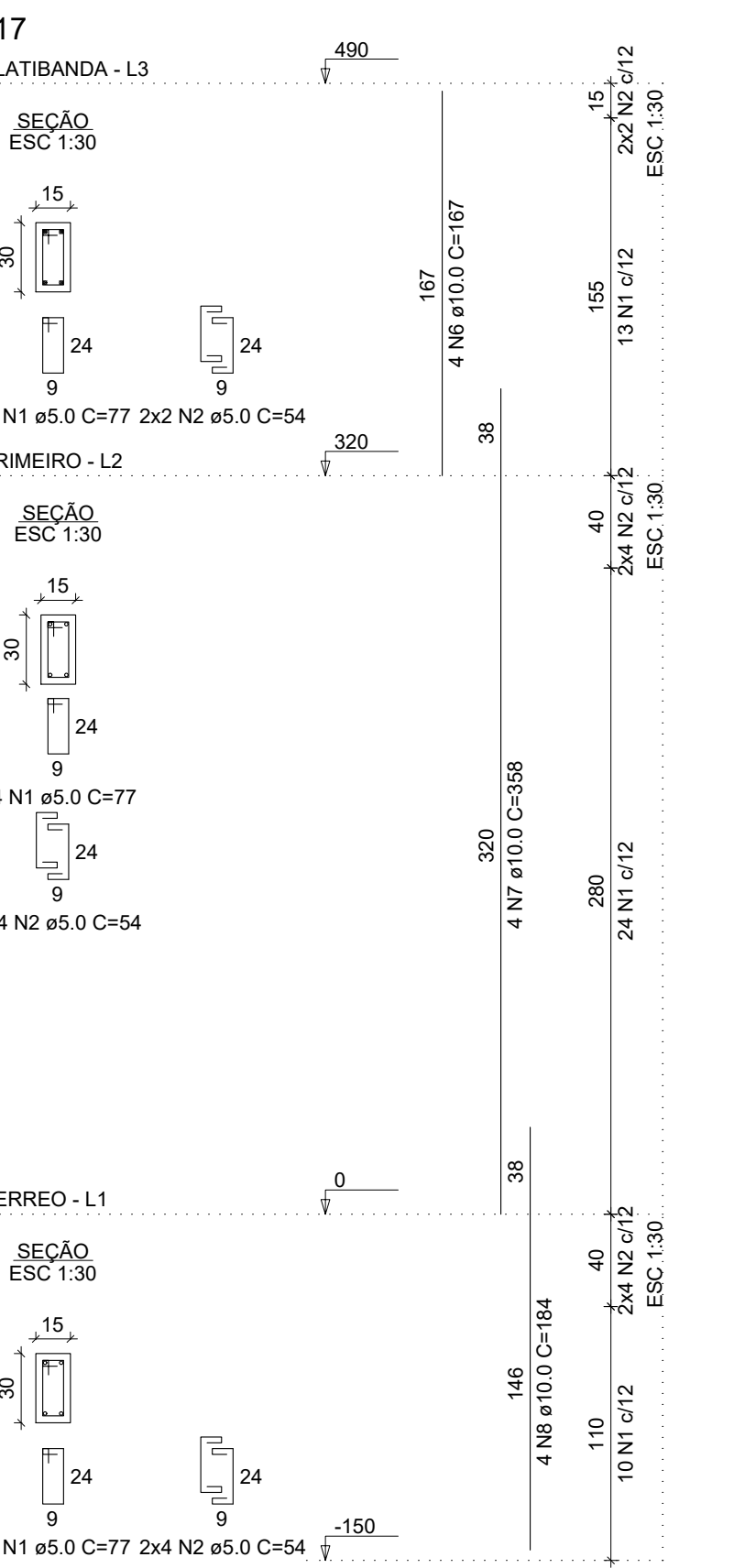
RELAÇÃO DO AÇO

CAO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P9-L3	1	5.0	94	77	7238
P10-L3	2	5.0	40	54	2160
P11-L3	3	5.0	282	77	18884
P12-L3	4	5.0	120	54	6480
P13-L3	5	10.0	32	167	5344
P14-L3	6	10.0	32	358	11456
P15-L3	7	10.0	184	164	5888

RESUMO DO AÇO

CAO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CAO	10.0	226.9	139.9
CAO	5.0	347.7	53.6
PESO TOTAL (kg)			139.9
CAO			53.6

Volume de concreto (C-25) = 2.11 m³
Área de forma = 42.24 m²



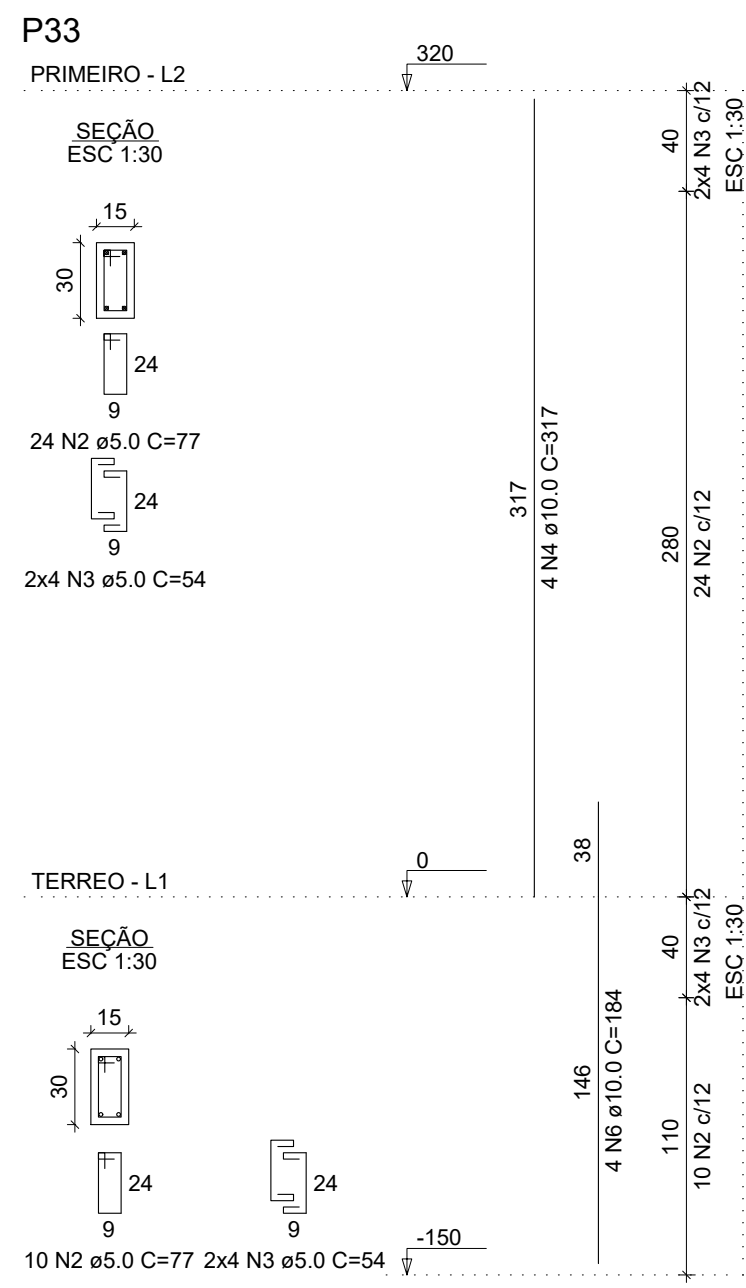
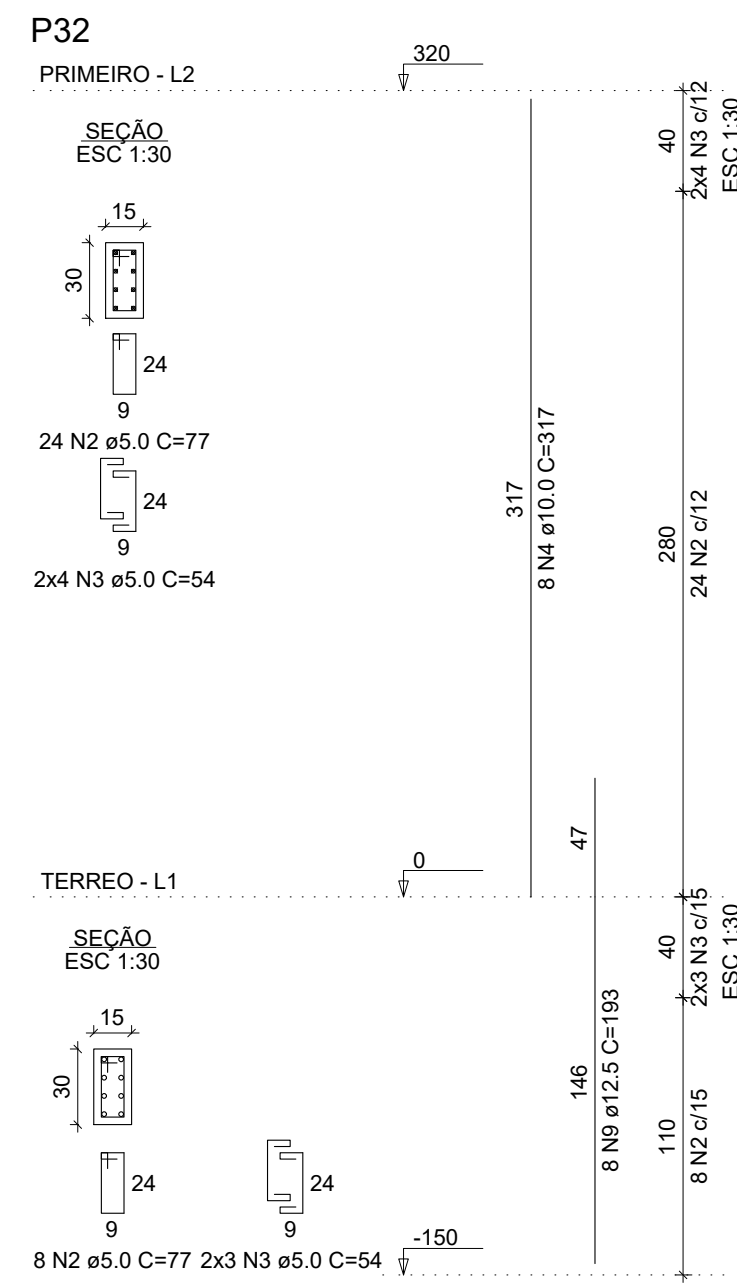
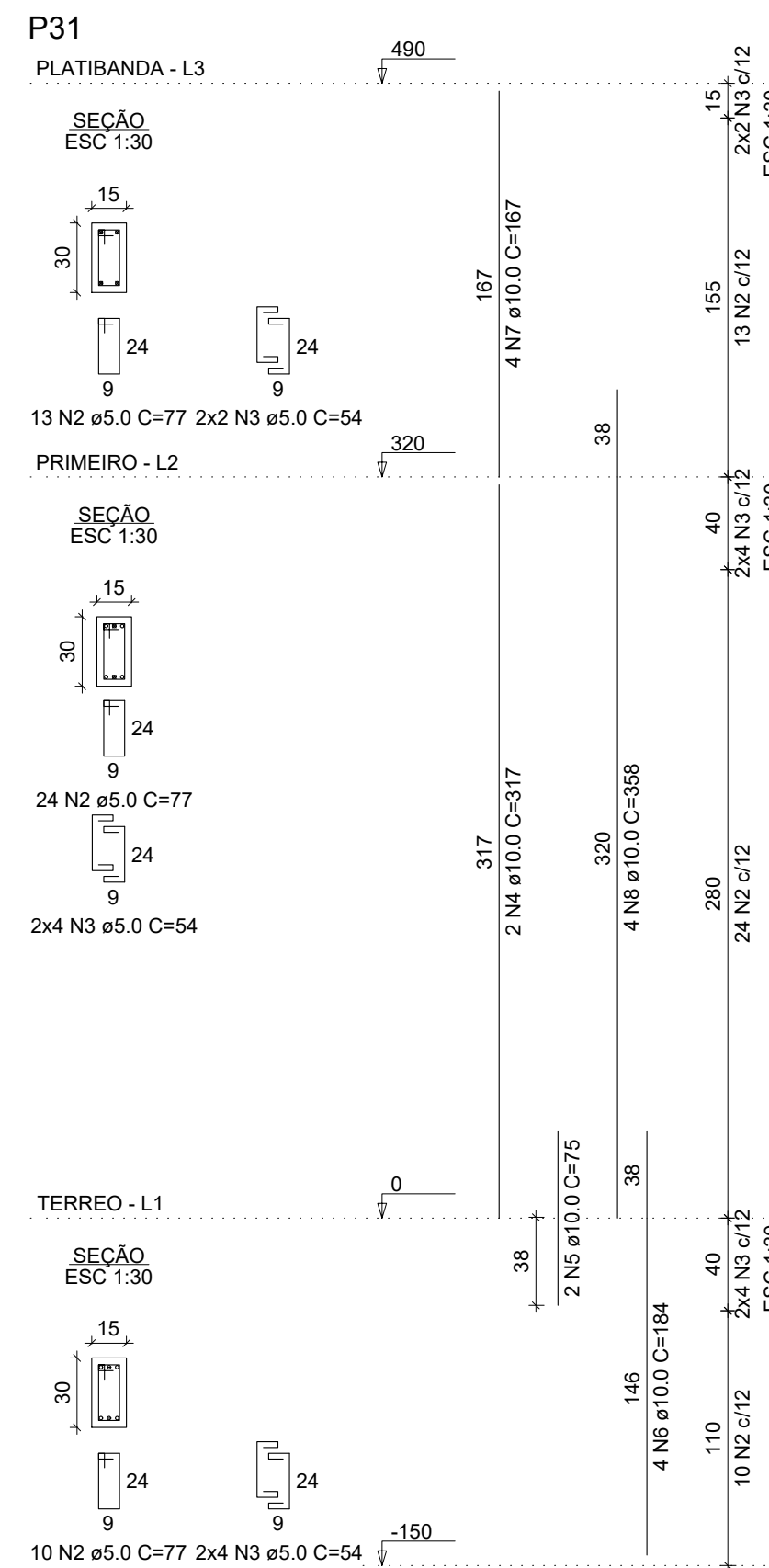
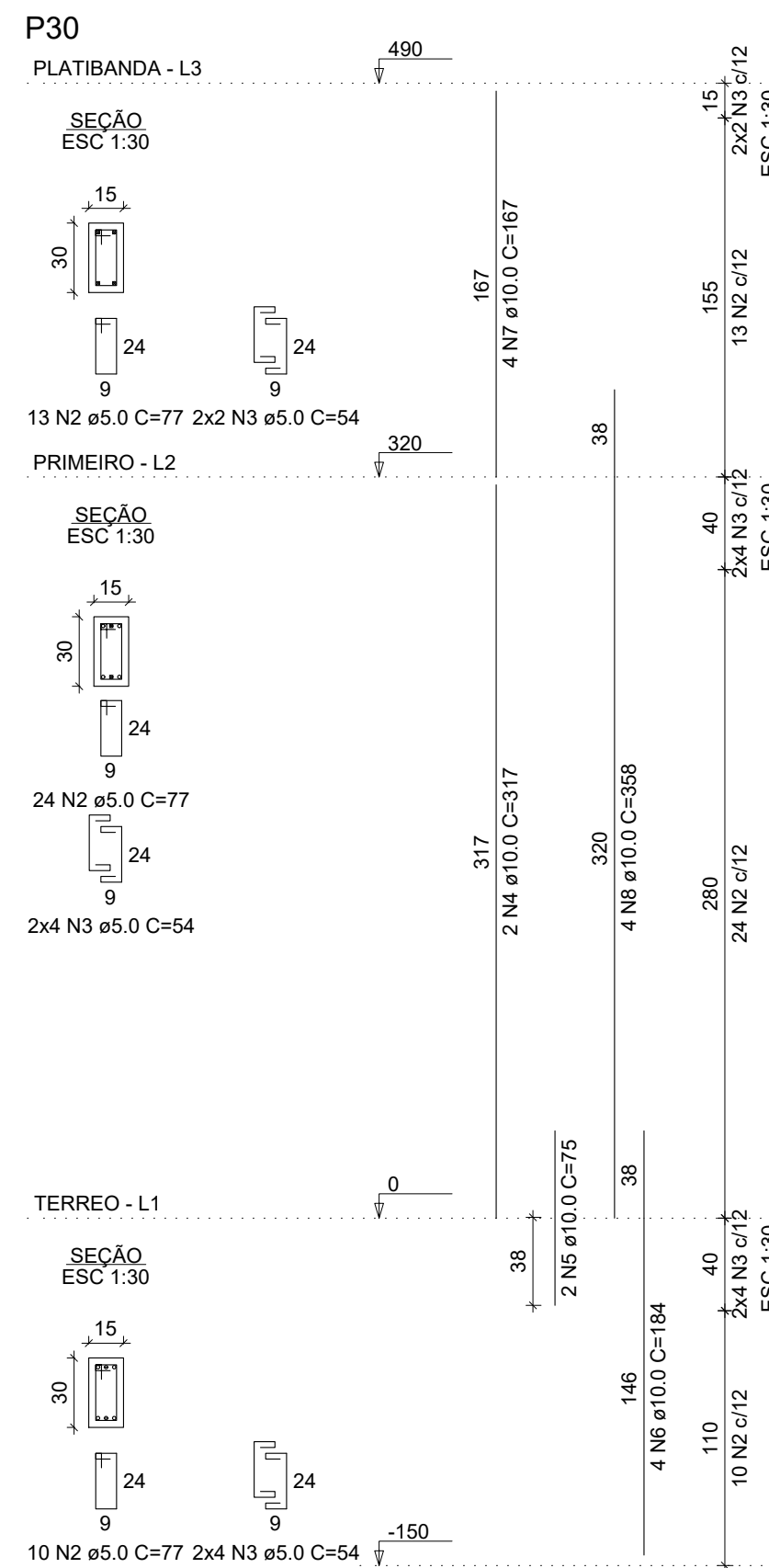
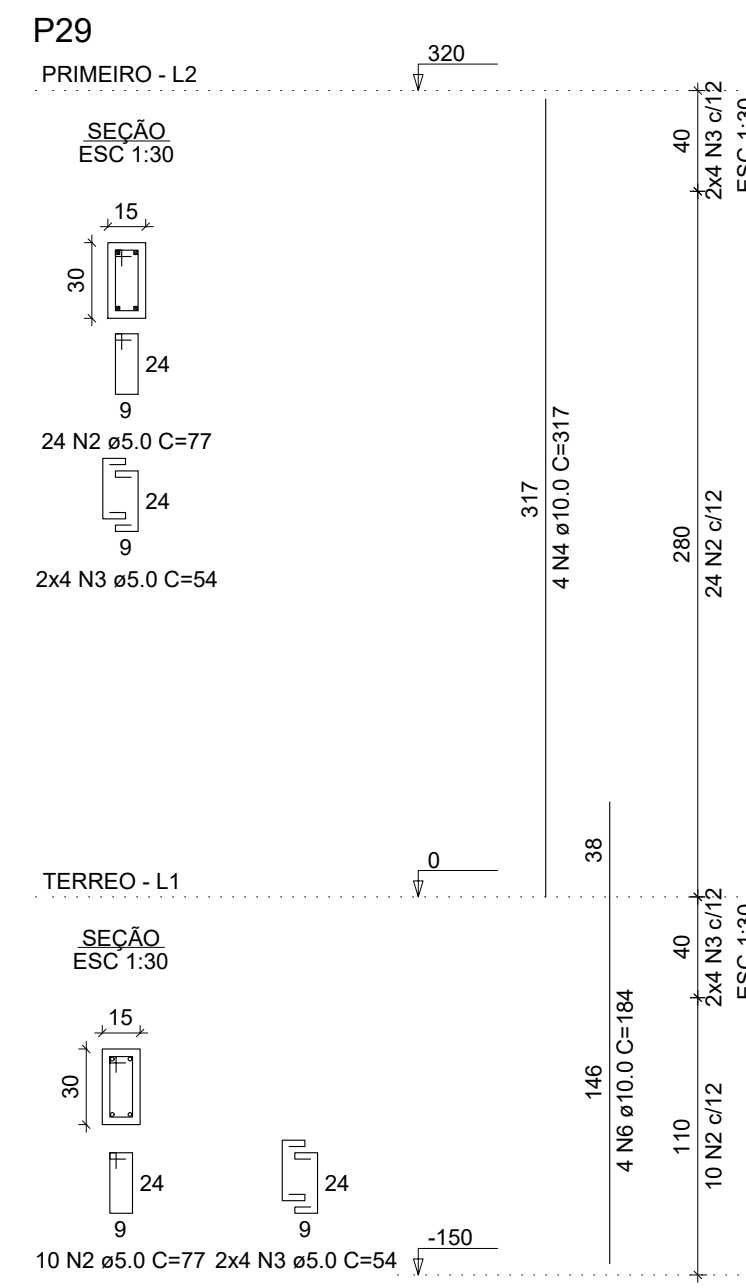
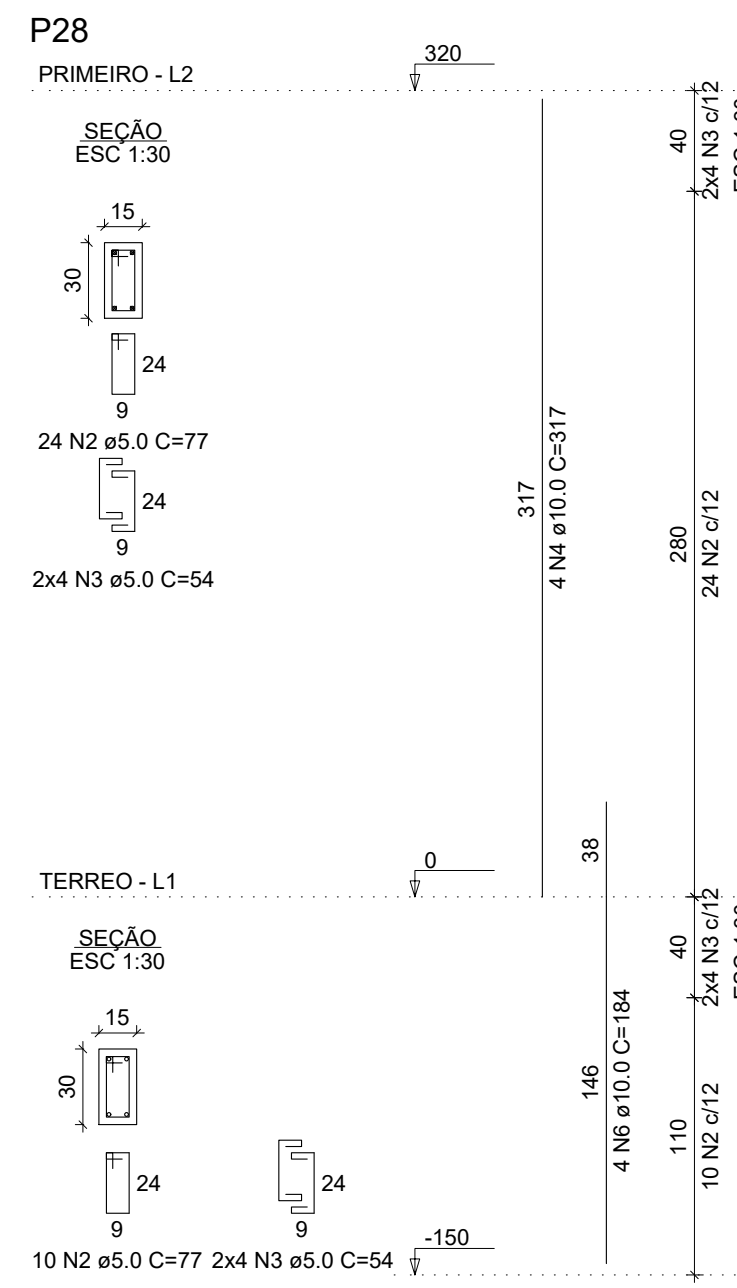
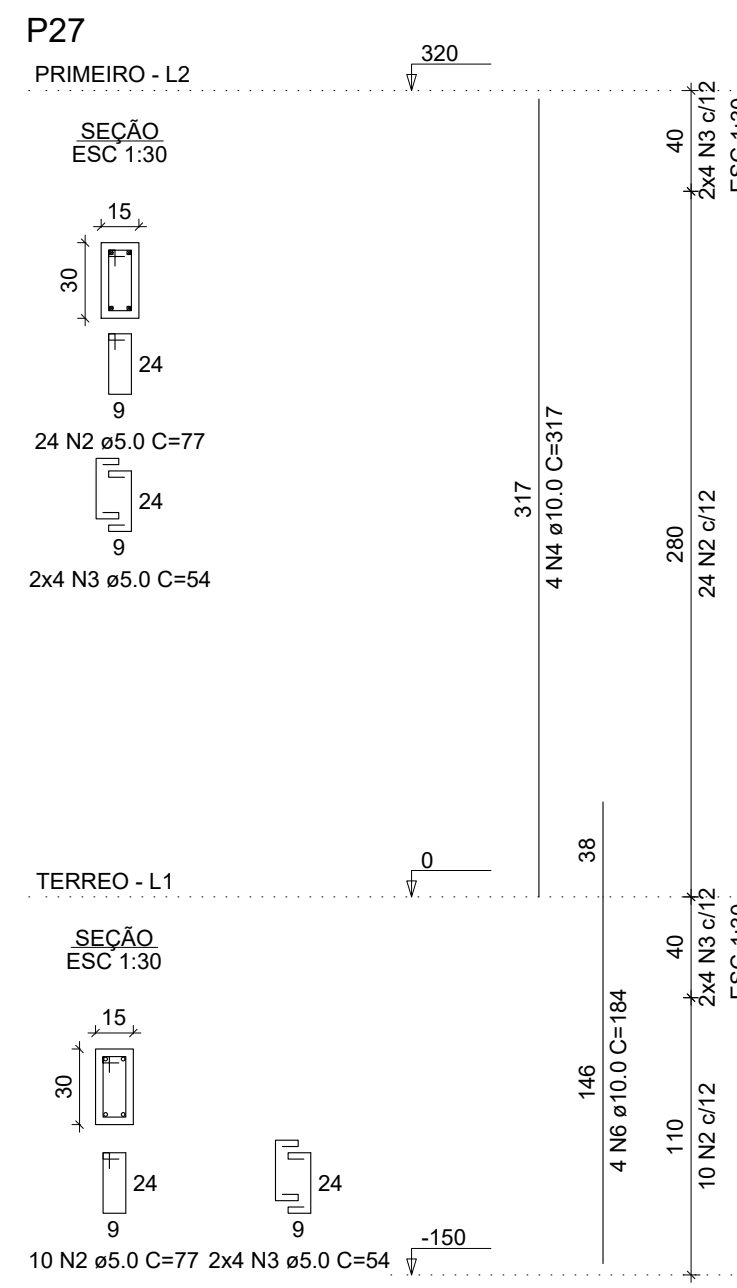
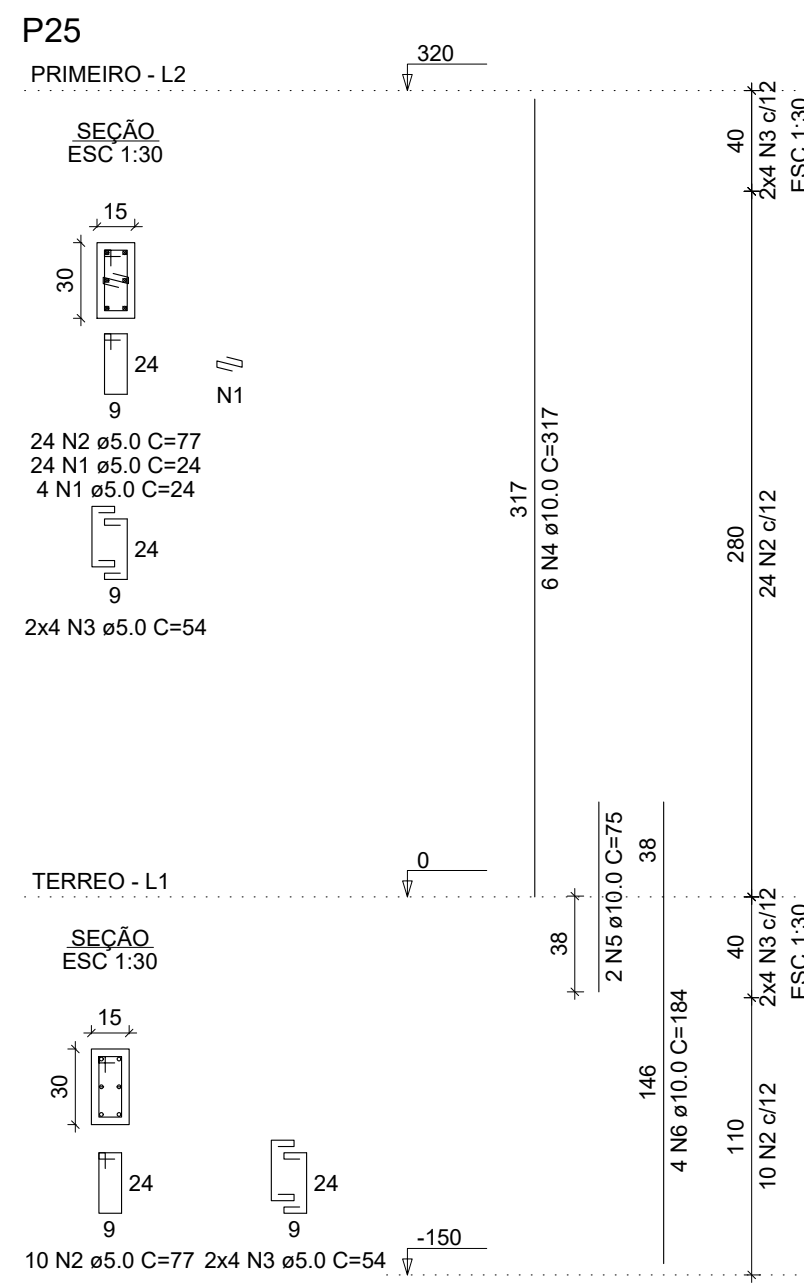
RELAÇÃO DO AÇO

CAO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P17-L3	1	5.0	285	77	21945
P18-L2	2	5.0	132	54	7128
P19-L1	3	5.0	70	24	1680
P20-L1	4	5.0	16	64	1024
P21-L1	5	10.0	4	358	1432
P22-L1	6	10.0	42	164	7728
P23-L1	7	10.0	40	317	12680
P24-L1	8	10.0	142	142	5888
P25-L1	9	10.0	2	75	150

RESUMO DO AÇO

CAO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CAO	10.0	232.3	143.2
CAO	5.0	390.8	54.1
PESO TOTAL (kg)			143.2
CAO			54.1

Volume de concreto (C-25) = 2.05 m³
Área de forma = 40.54 m²



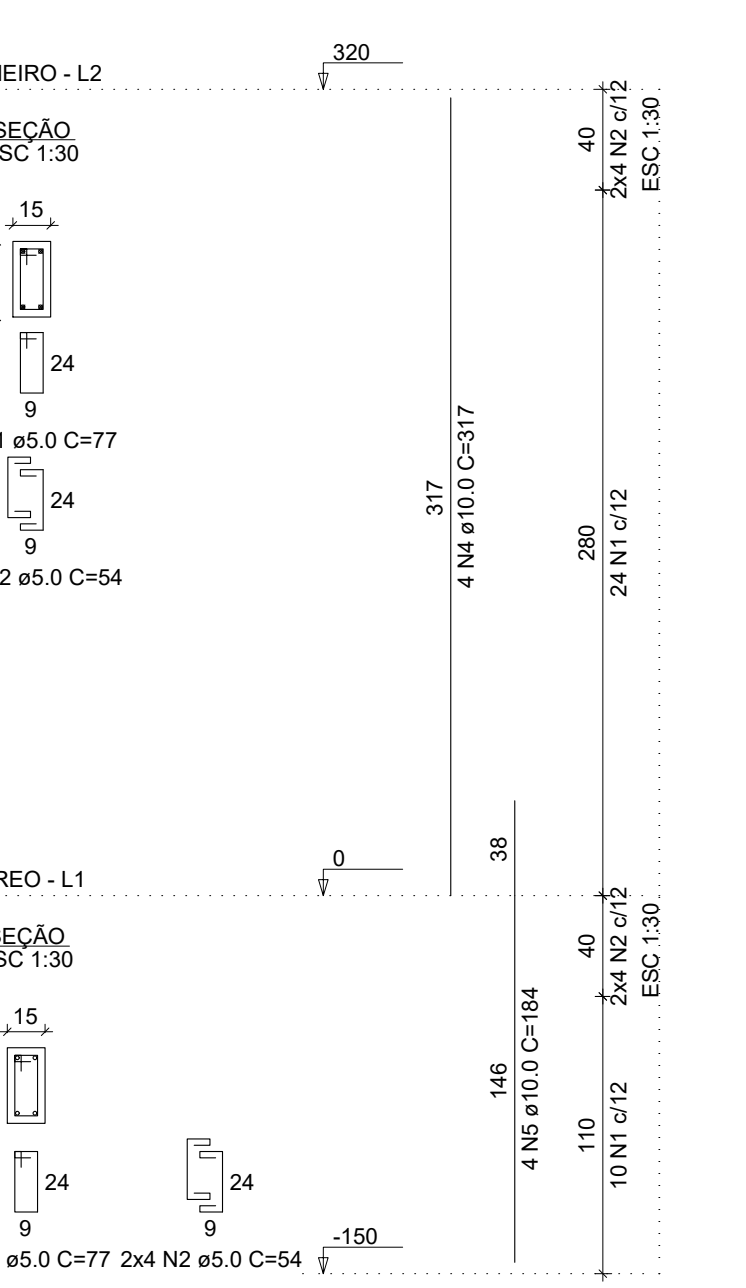
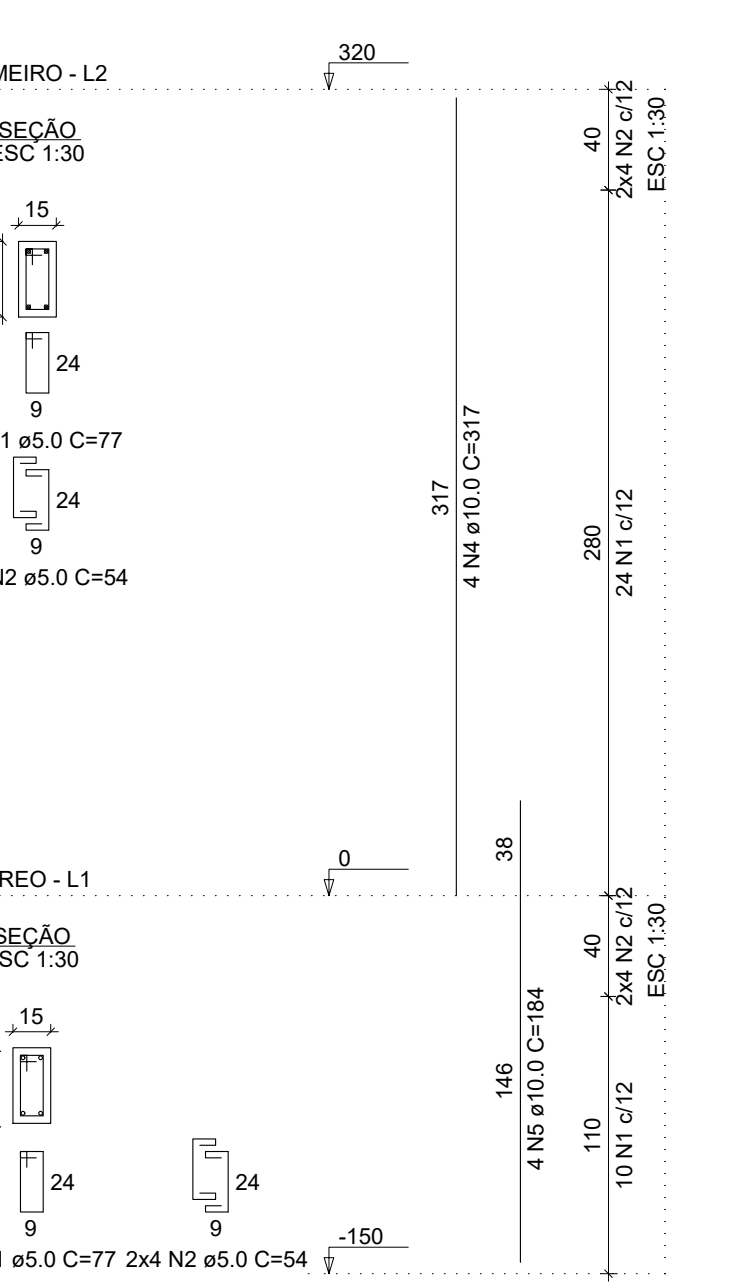
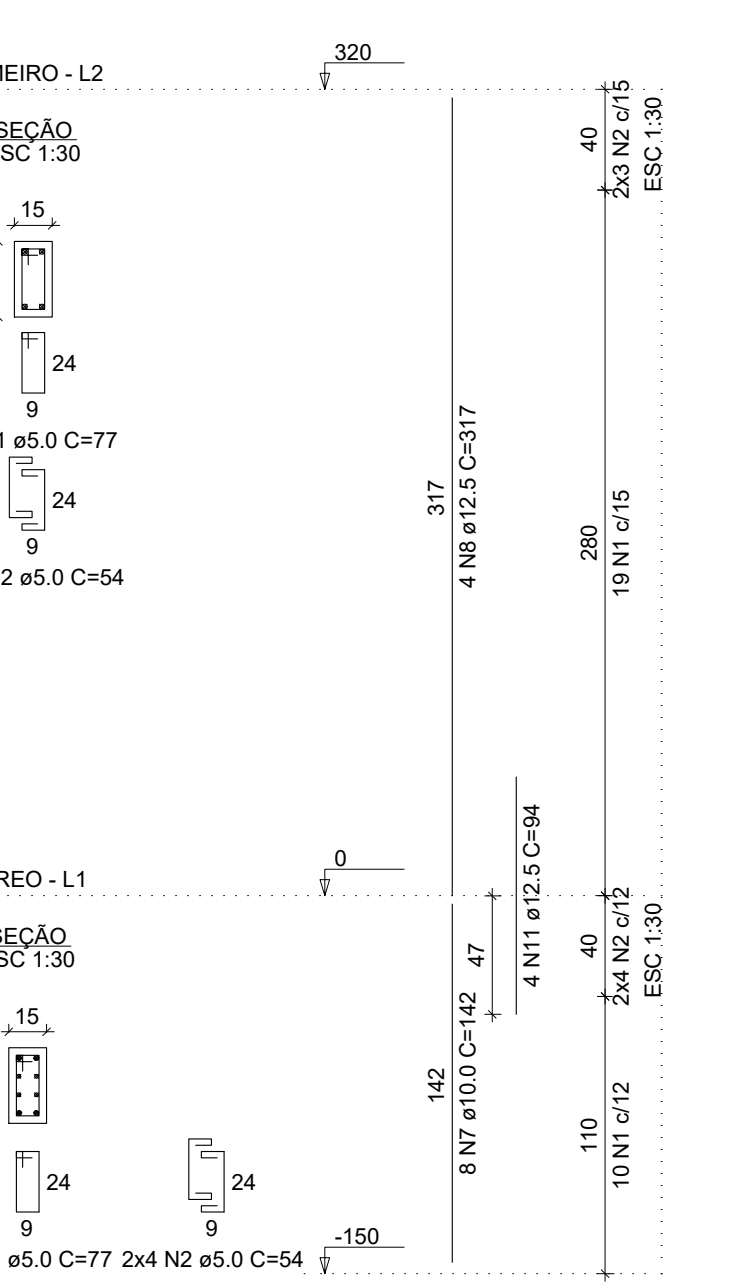
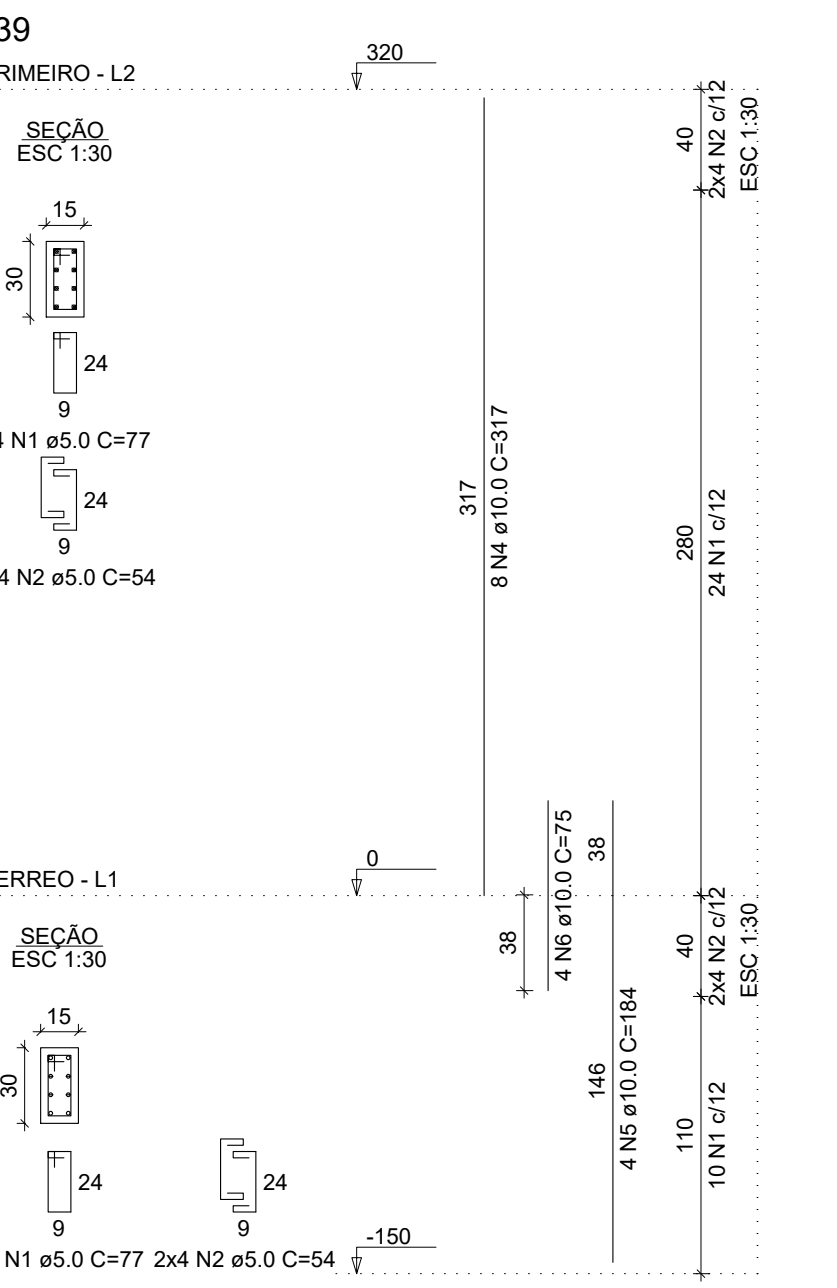
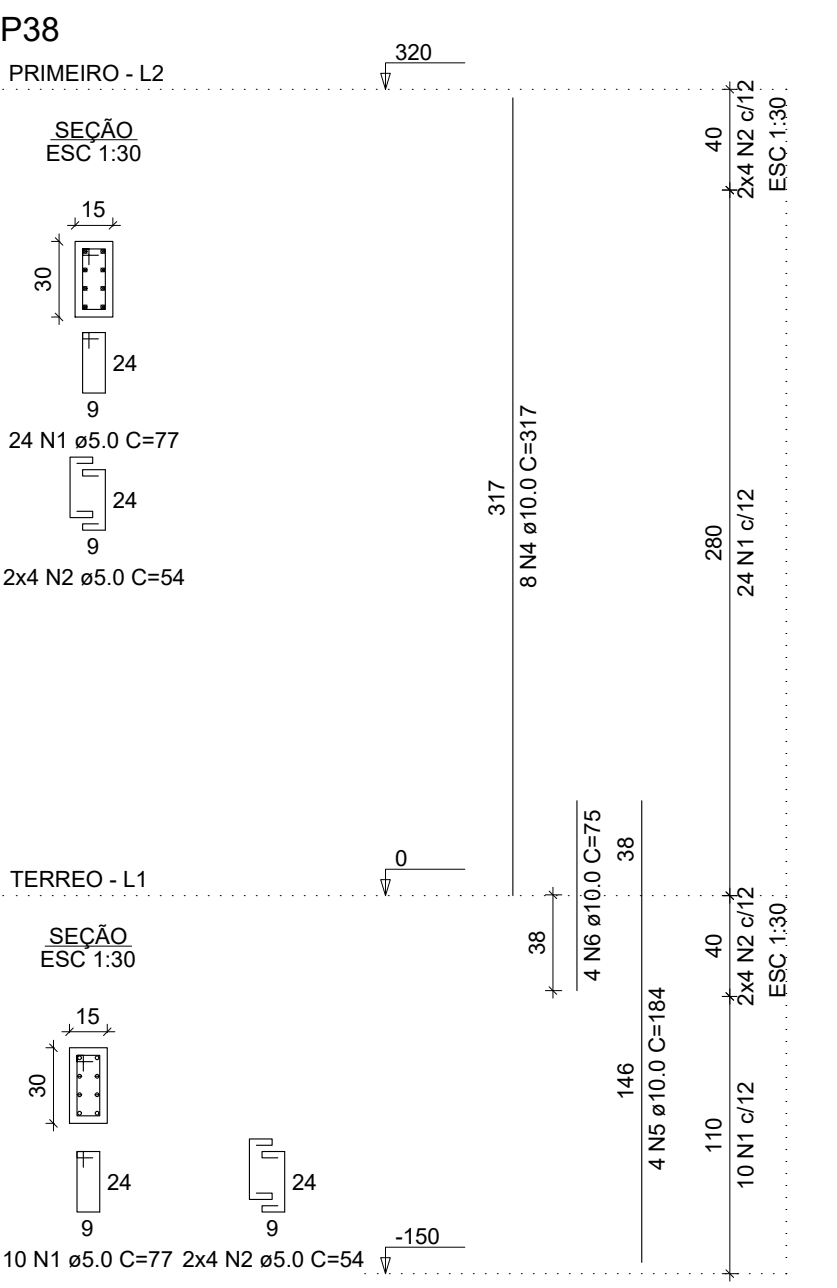
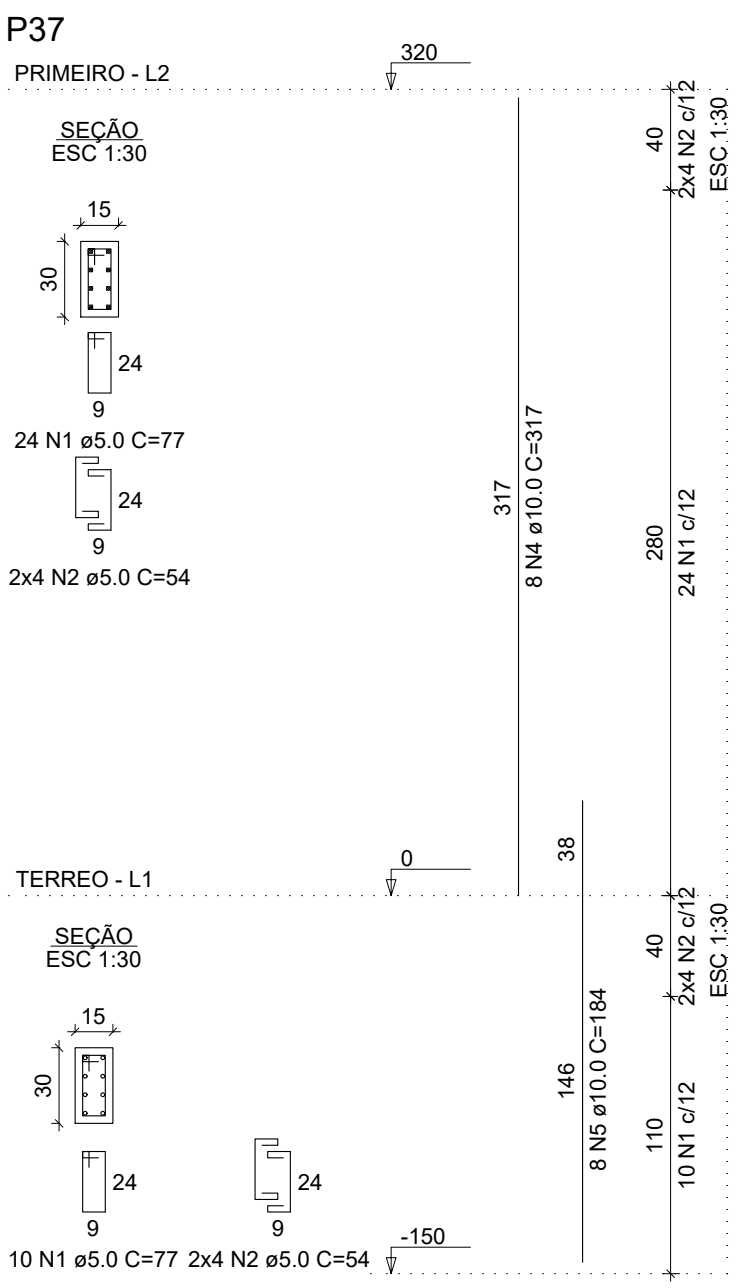
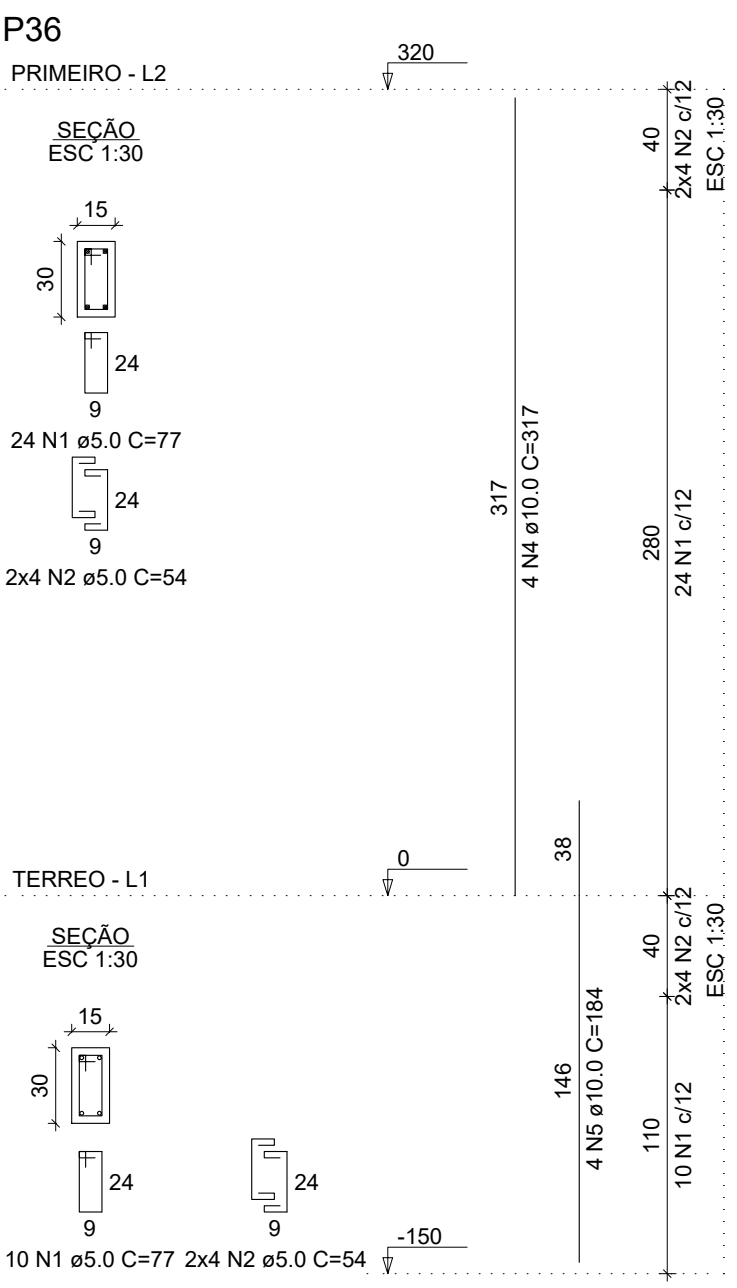
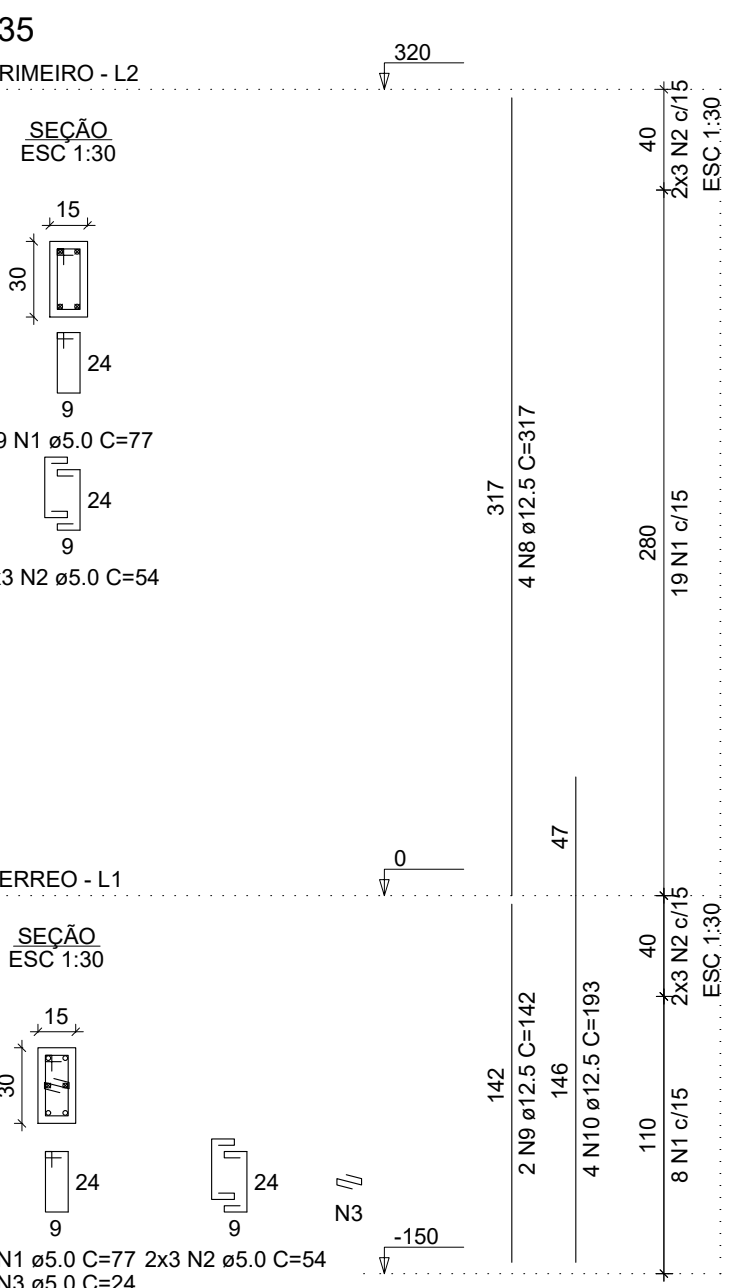
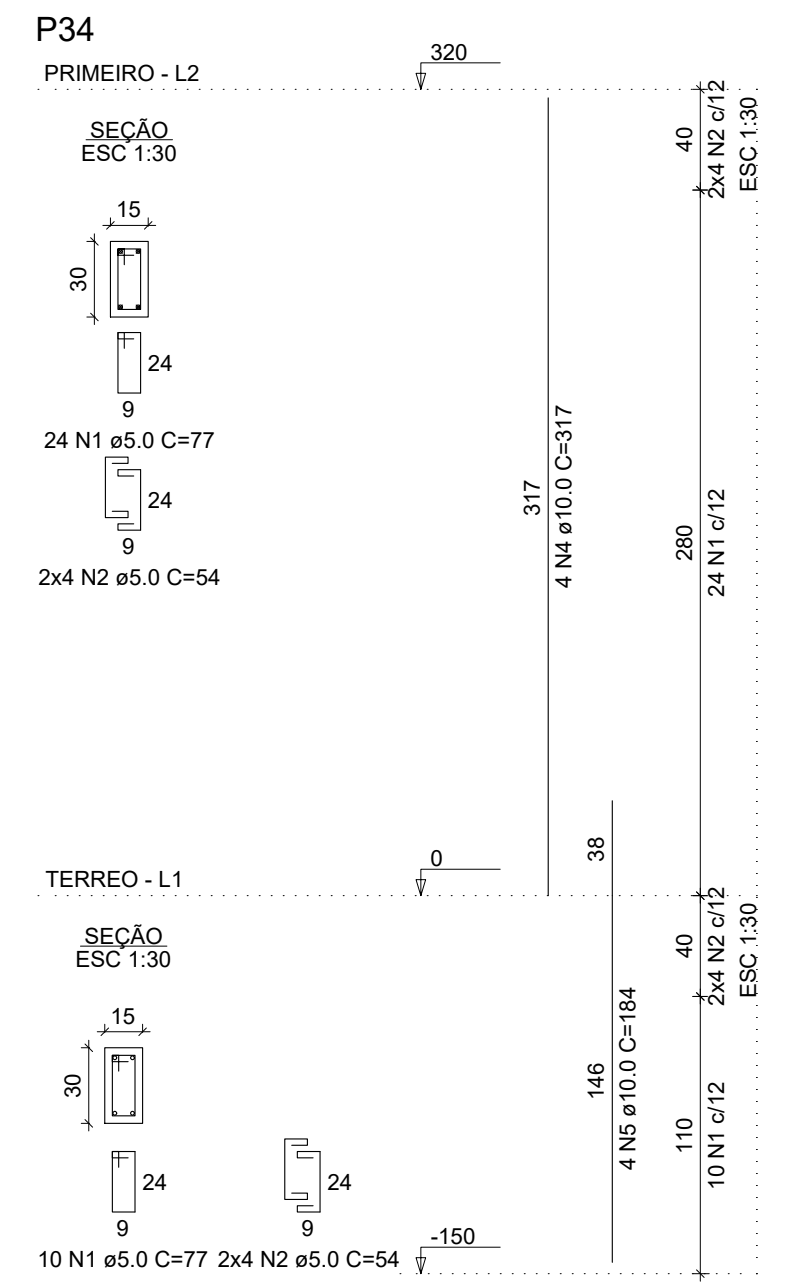
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C. TOTAL (cm)
CA80	1	5.0	38	24	672
CA50	2	5.0	296	77	22792
	3	5.0	134	77	10238
	4	10.0	34	317	10778
	6	10.0	8	167	1336
	7	10.0	28	184	5152
	8	10.0	8	167	1336
	9	10.0	8	358	2864
	10	12.5	6	193	1158

RESUMO DO AÇO

ACO	DIAM (mm)	C. TOTAL (cm)	PESO + 0% (kg)
CA50	10.0	205.8	126.9
CA80	5.0	307	47.3
PESO TOTAL (kg)			
CA50		141.8	
CA80		46.3	

Volume de concreto (C-25) = 1.85 m³
Área de forma = 36.90 m²



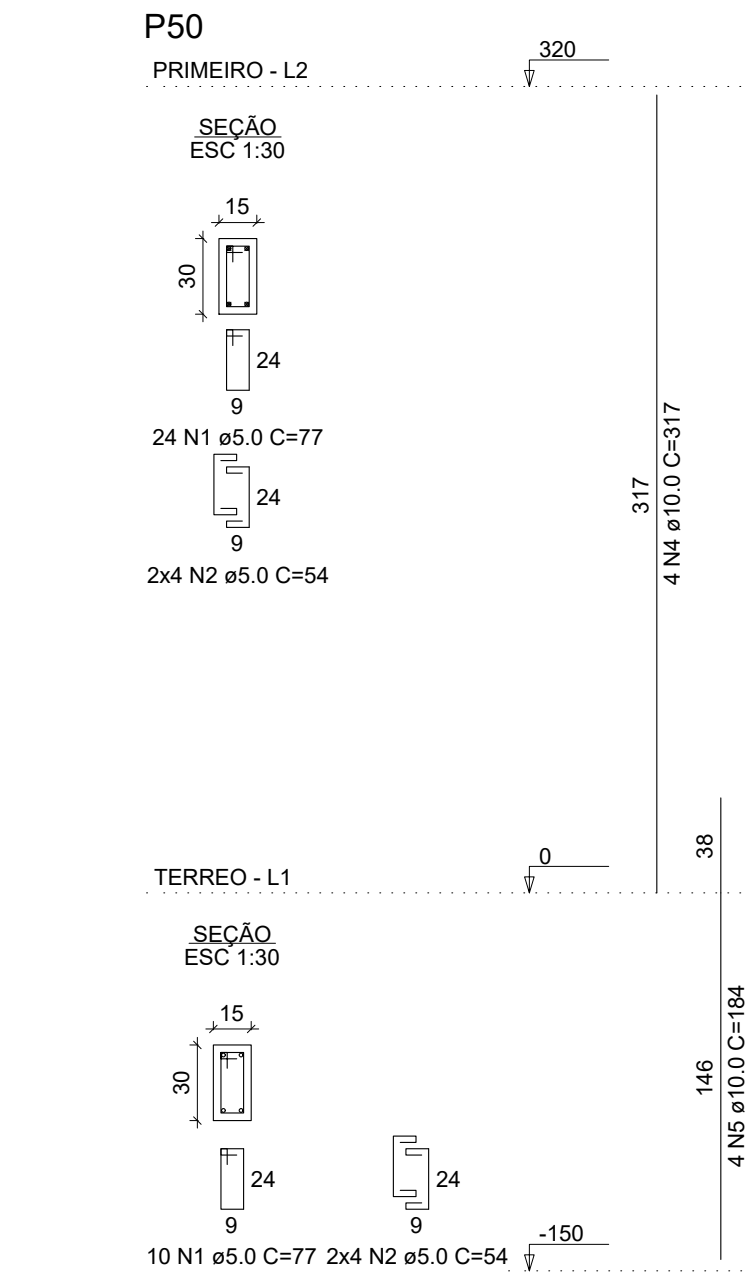
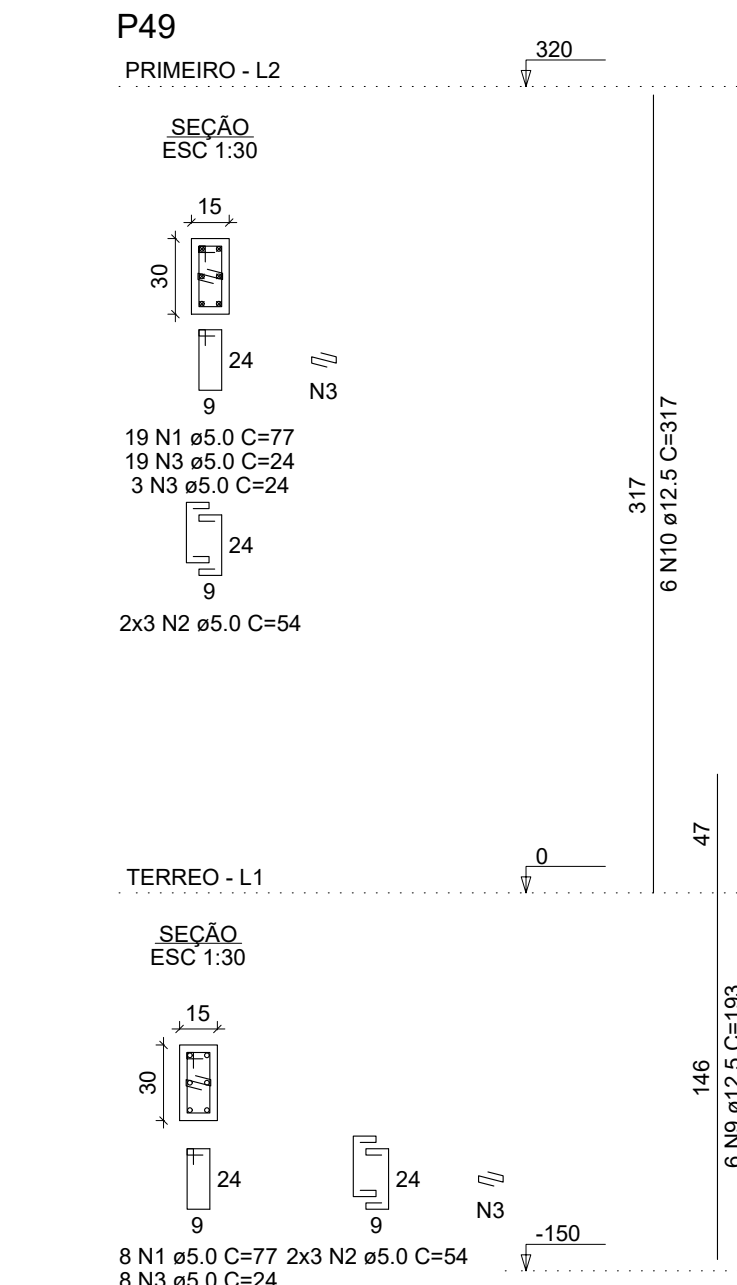
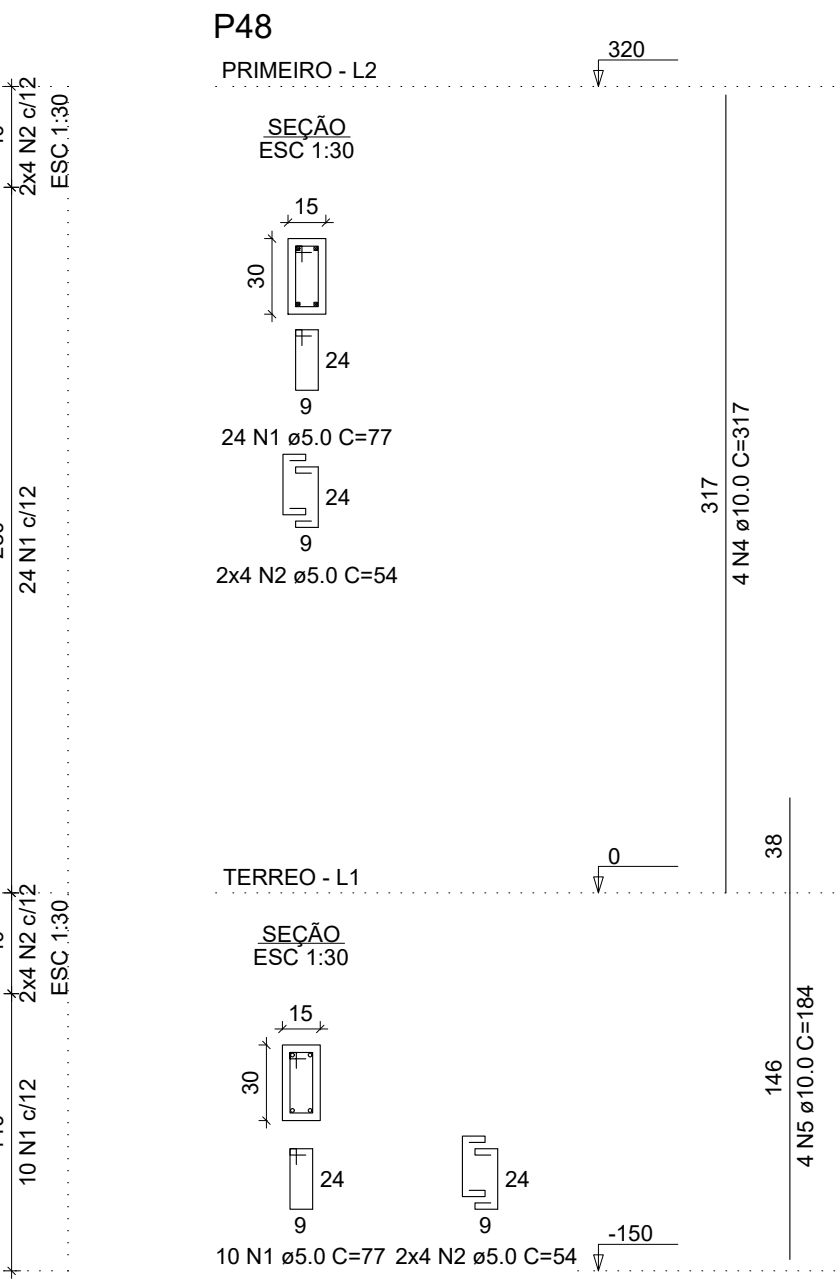
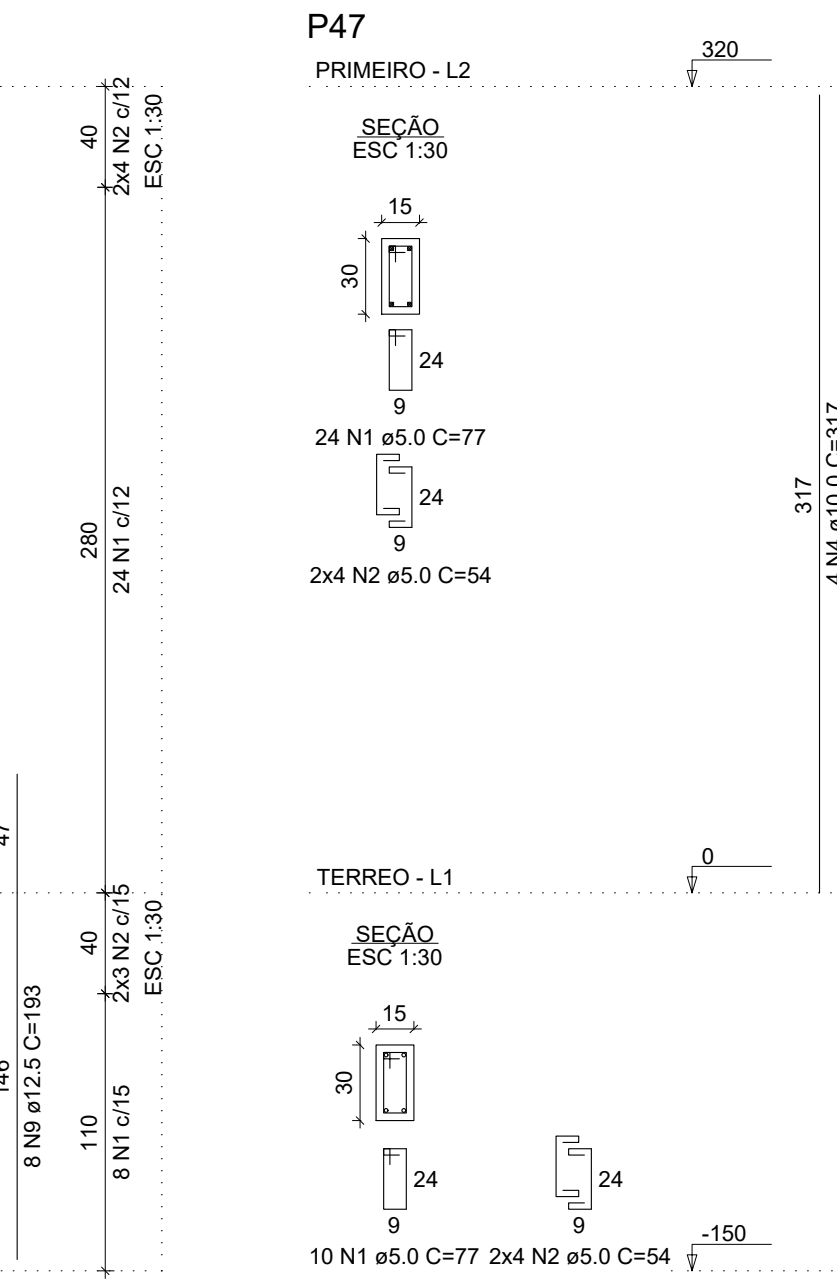
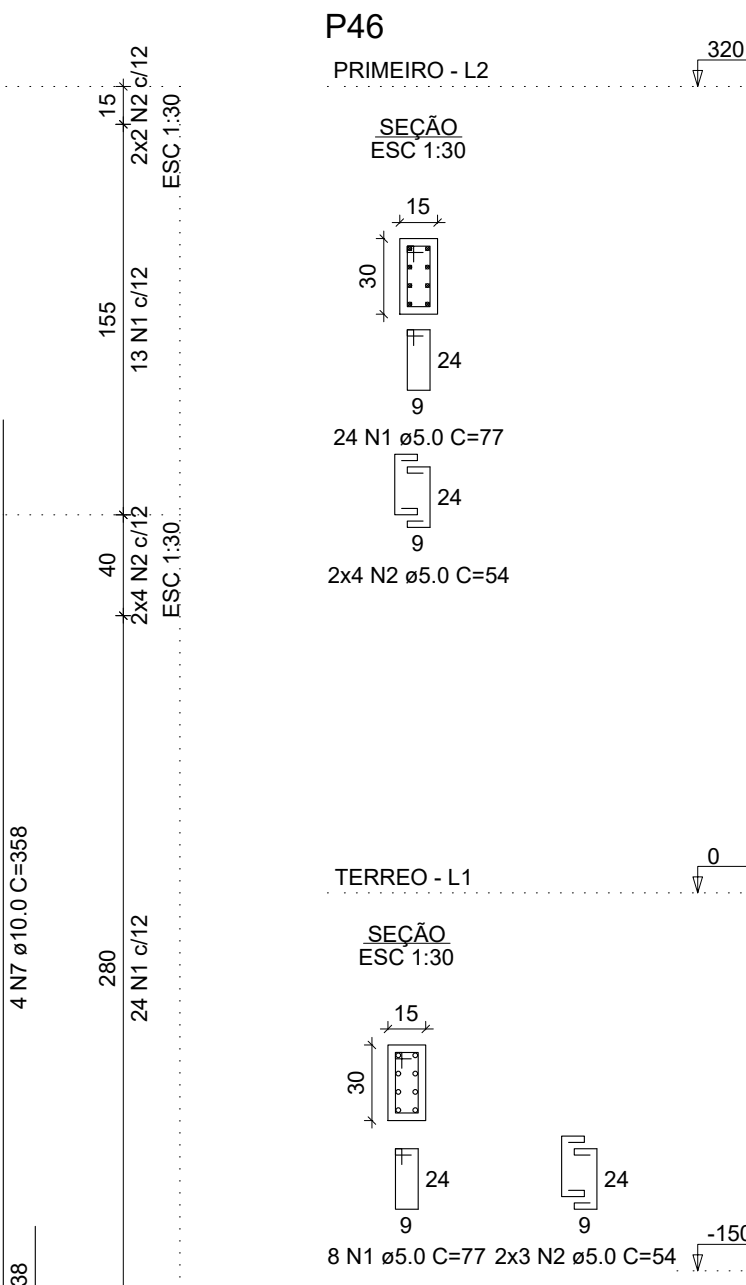
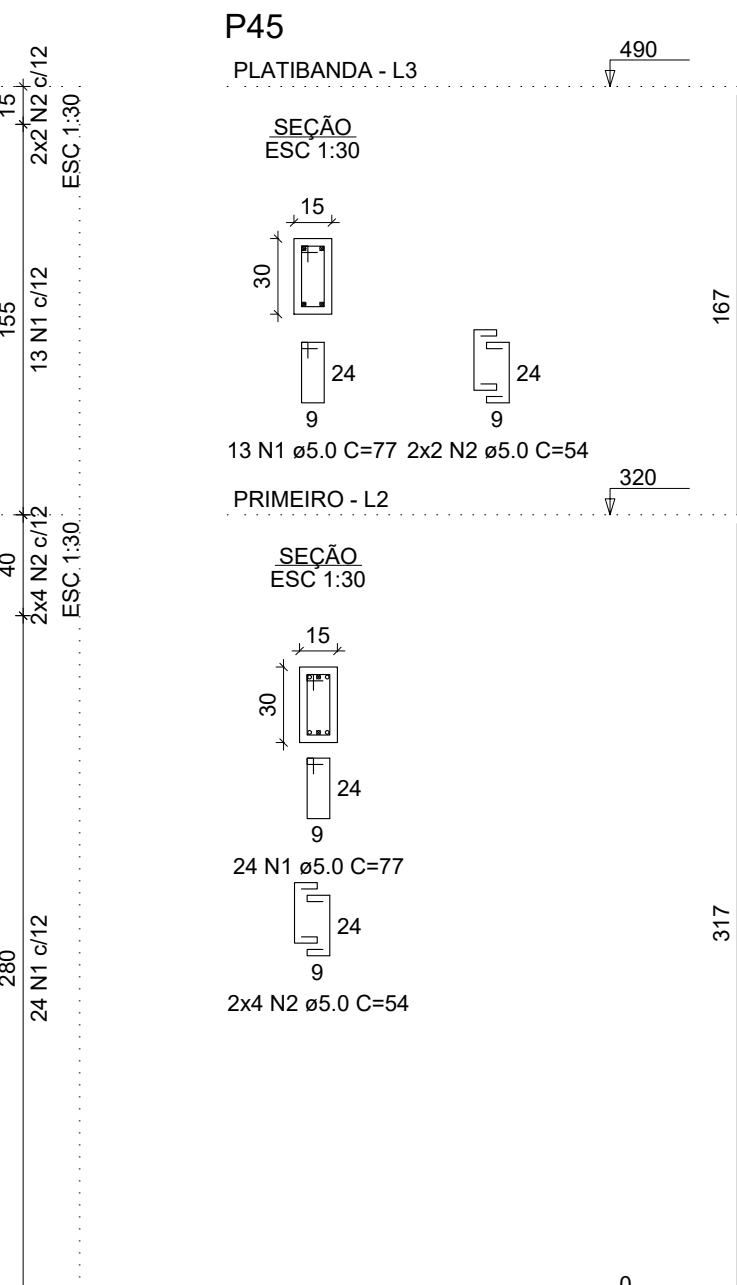
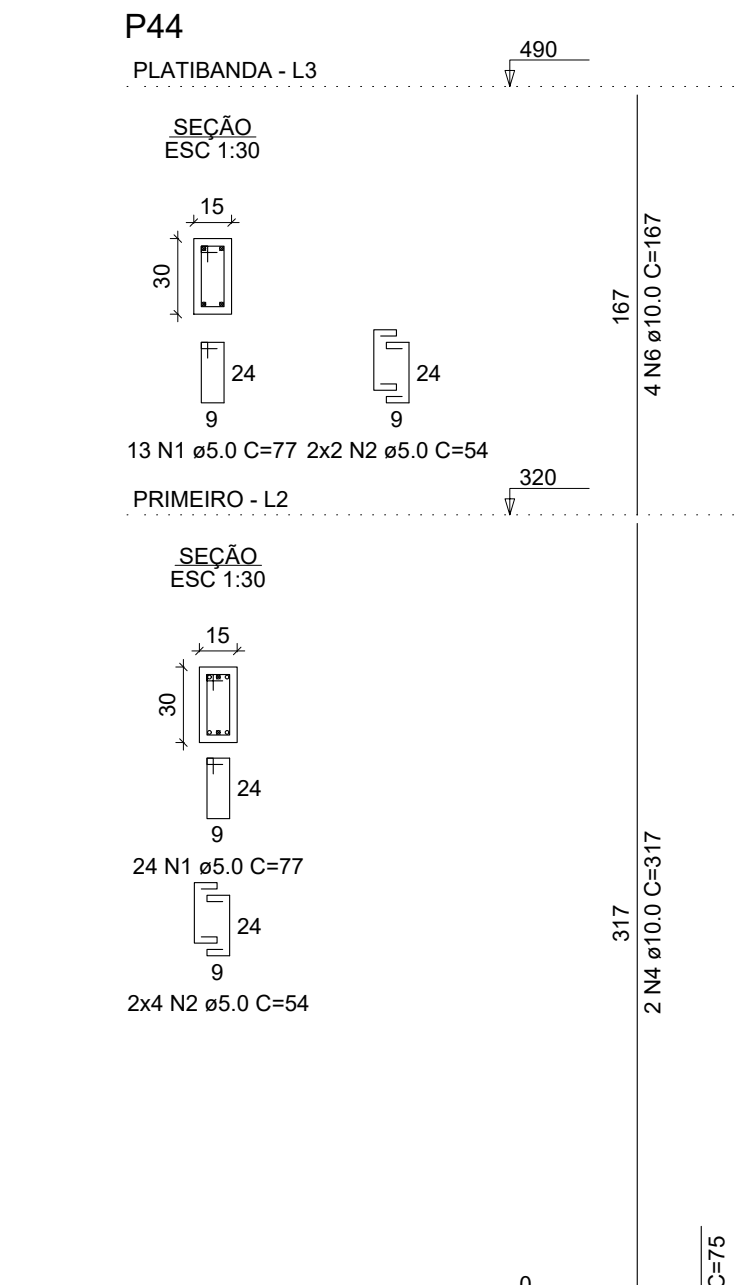
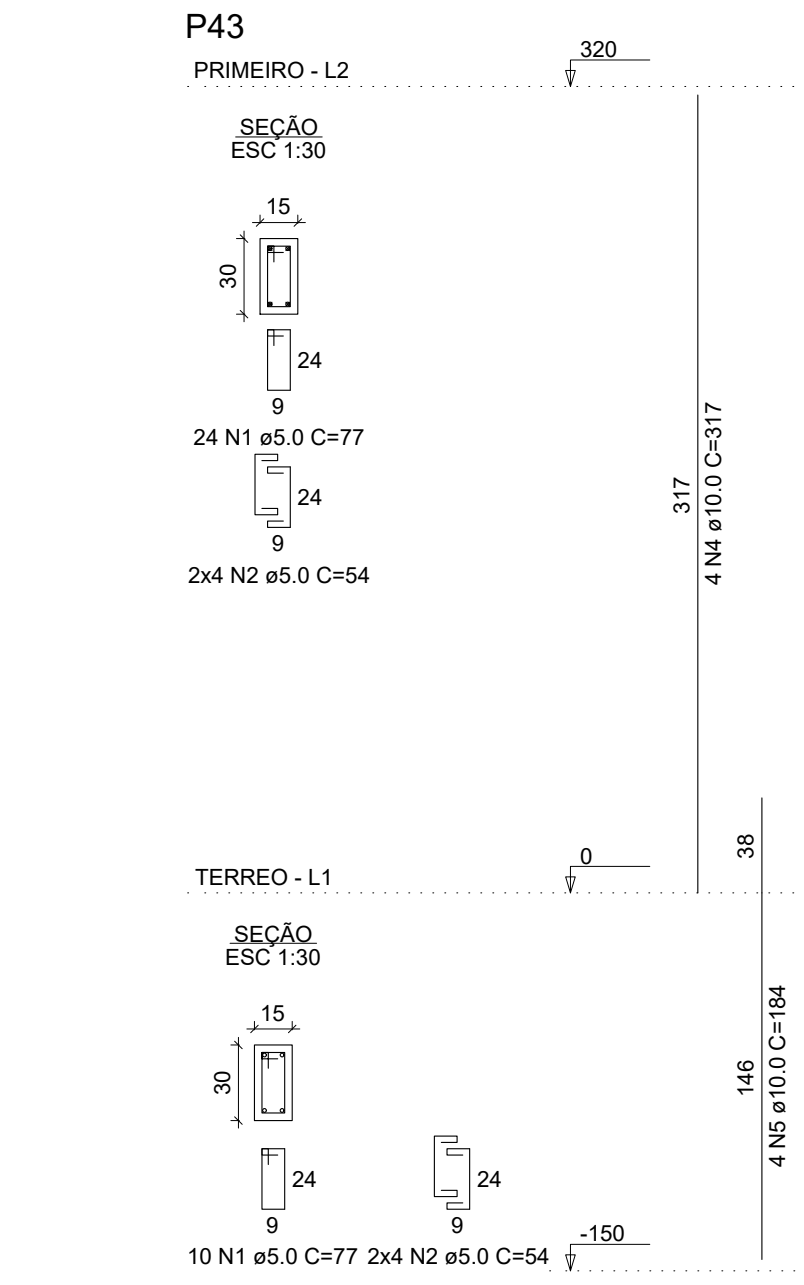
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C. TOTAL (cm)
CA80	1	5.0	294	77	22638
CA50	2	5.0	138	54	7452
	3	5.0	11	24	264
	4	10.0	40	317	12680
	6	10.0	32	184	5888
	7	10.0	8	75	600
	8	12.5	6	142	852
	9	12.5	4	193	772
	10	12.5	4	94	376

RESUMO DO AÇO

ACO	DIAM (mm)	C. TOTAL (cm)	PESO + 0% (kg)
CA50	10.0	203	125.2
CA80	5.0	303.5	46.8
PESO TOTAL (kg)			
CA50		163.4	
CA80		46.8	

Volume de concreto (C-25) = 1.90 m³
Área de forma = 38.07 m²



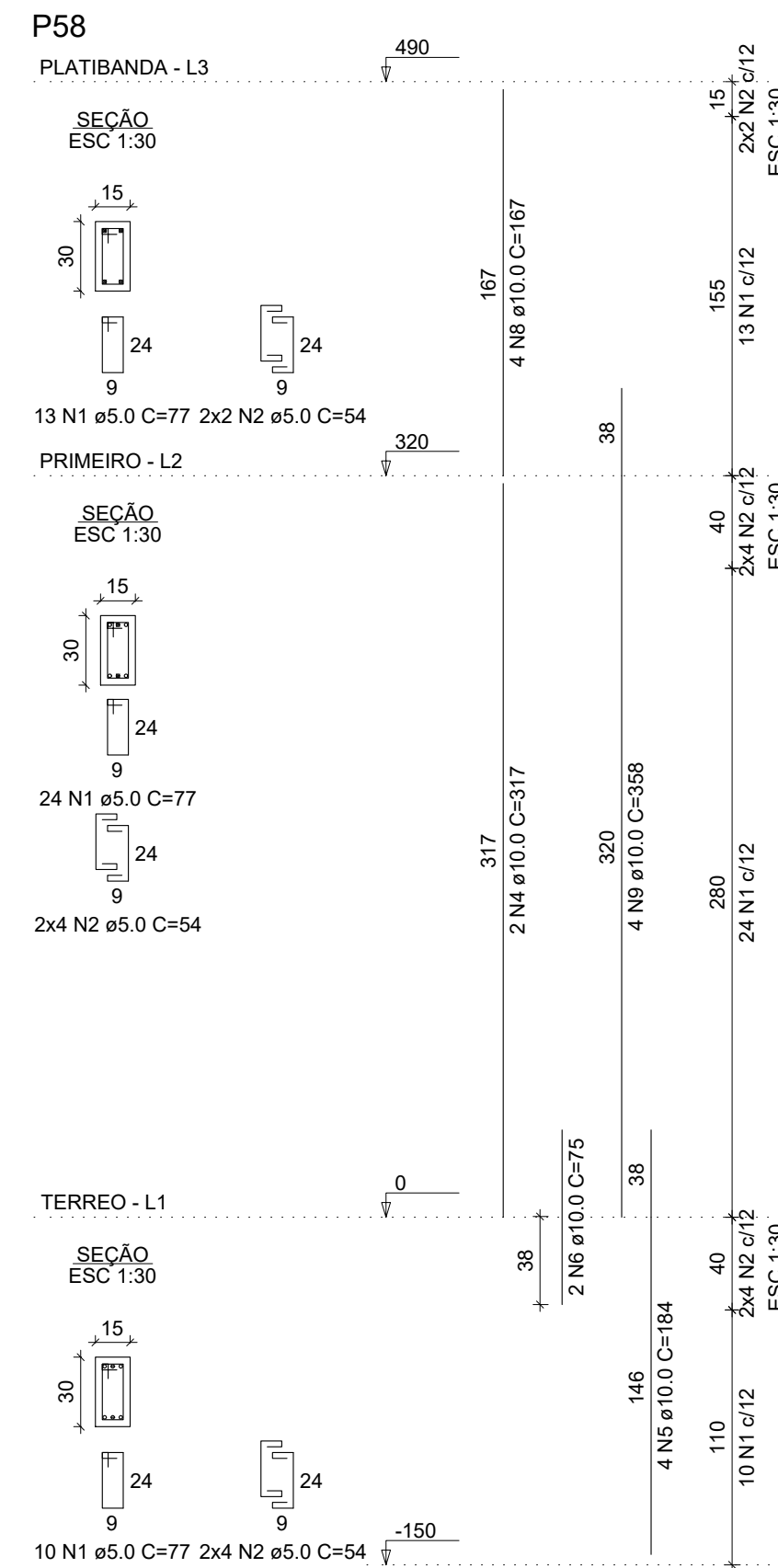
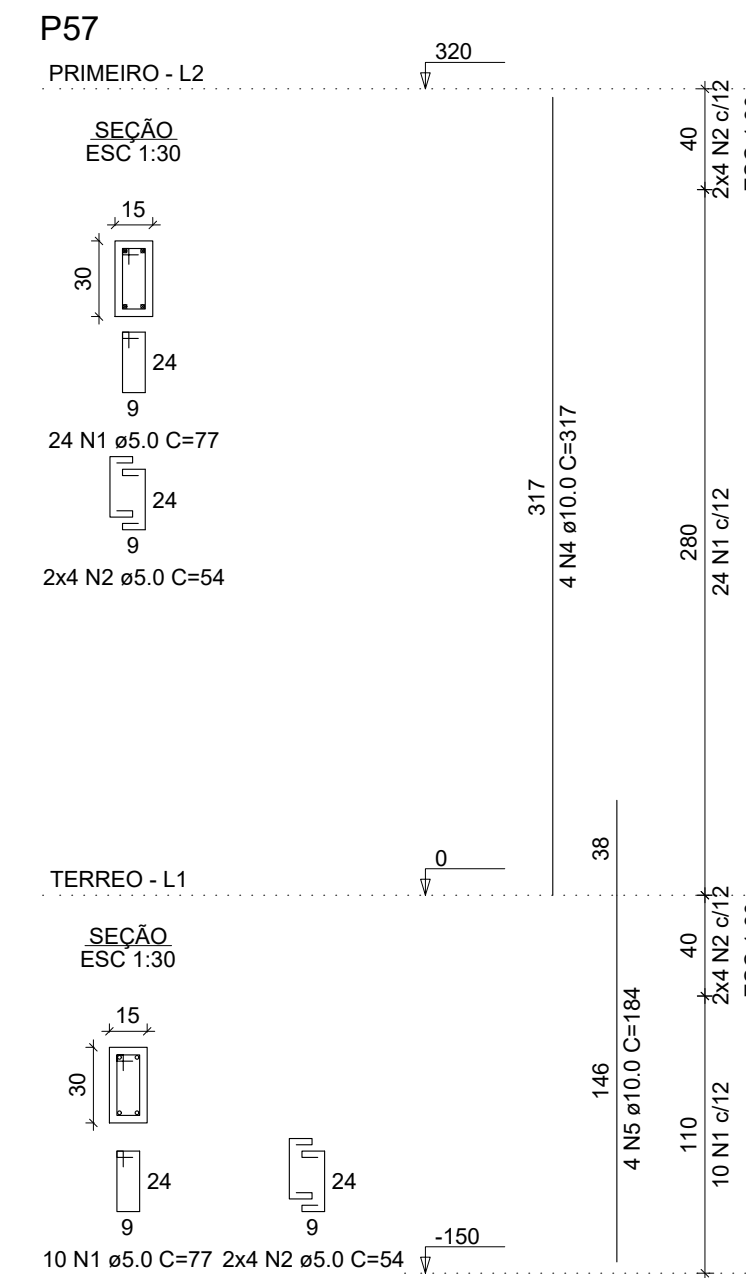
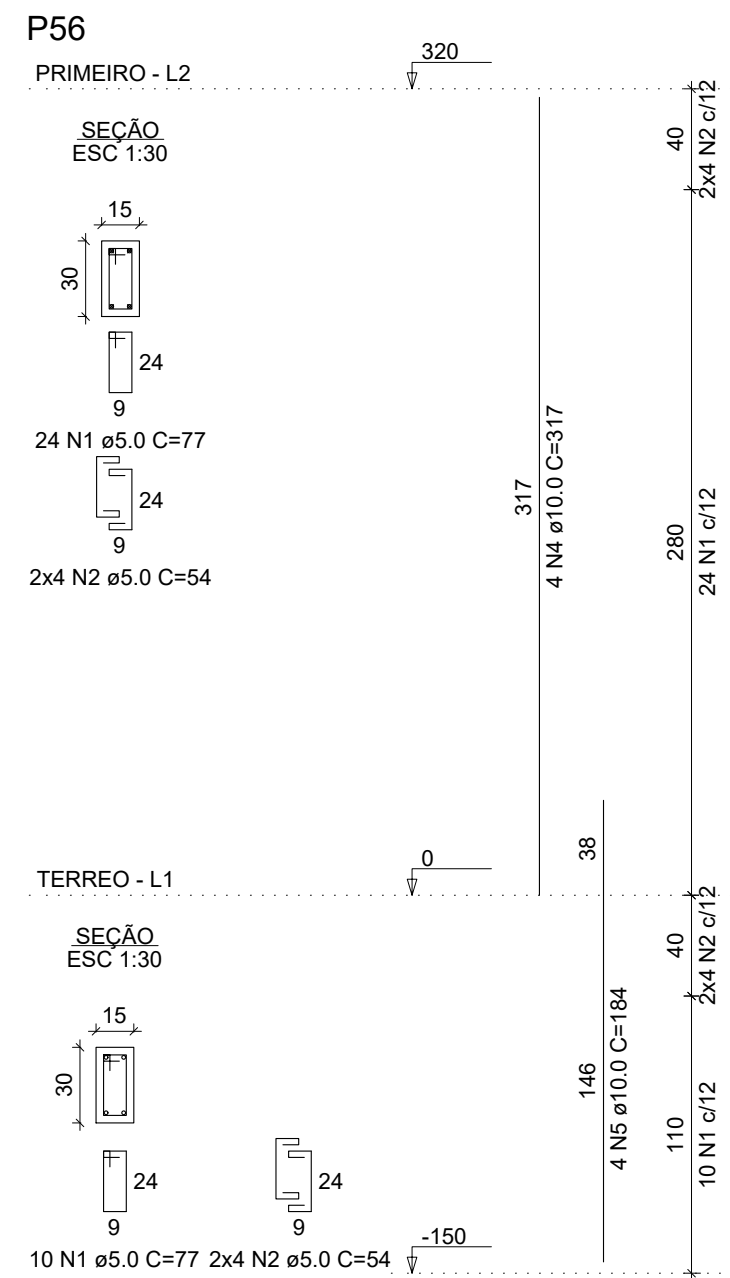
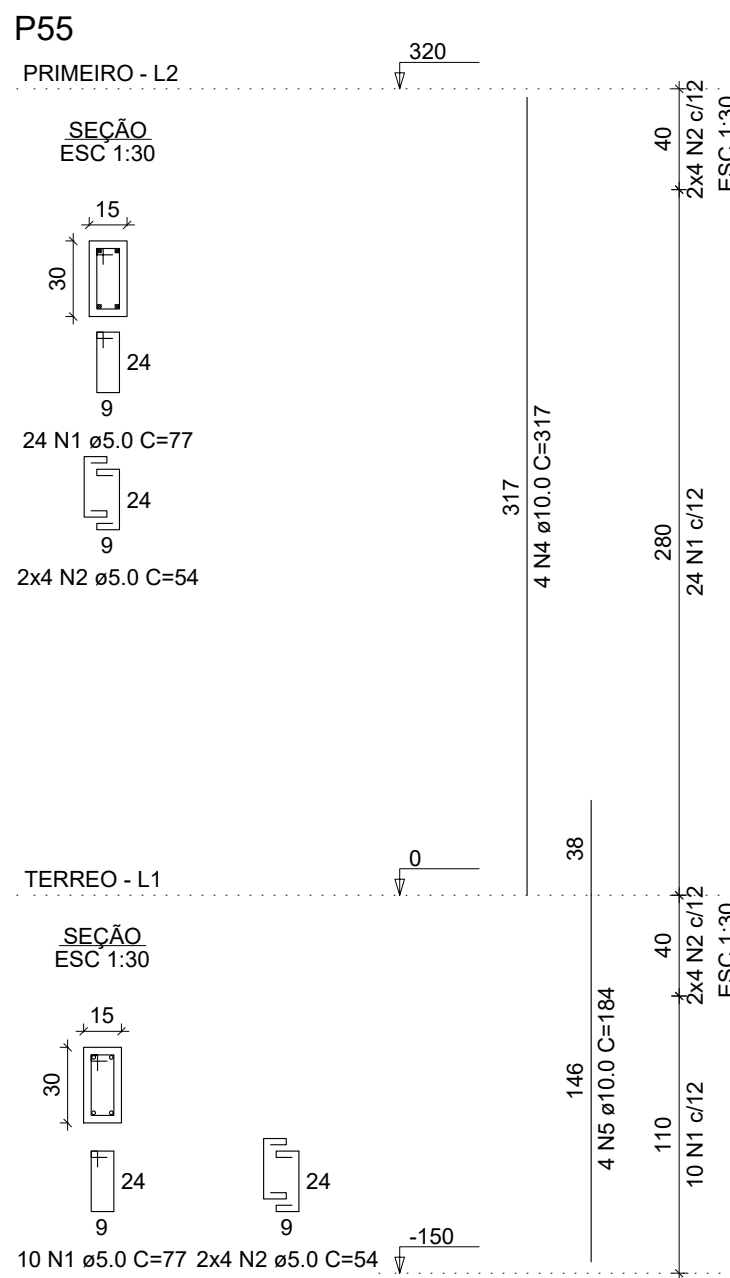
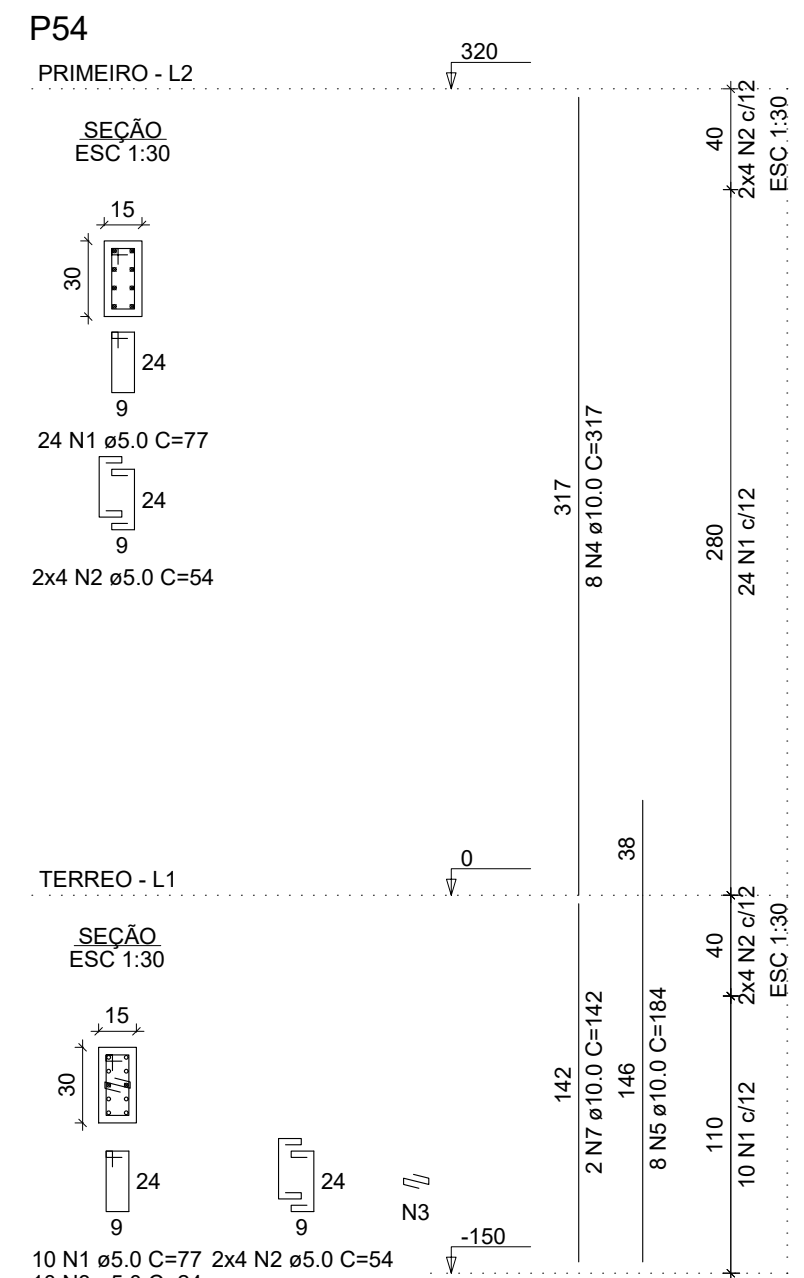
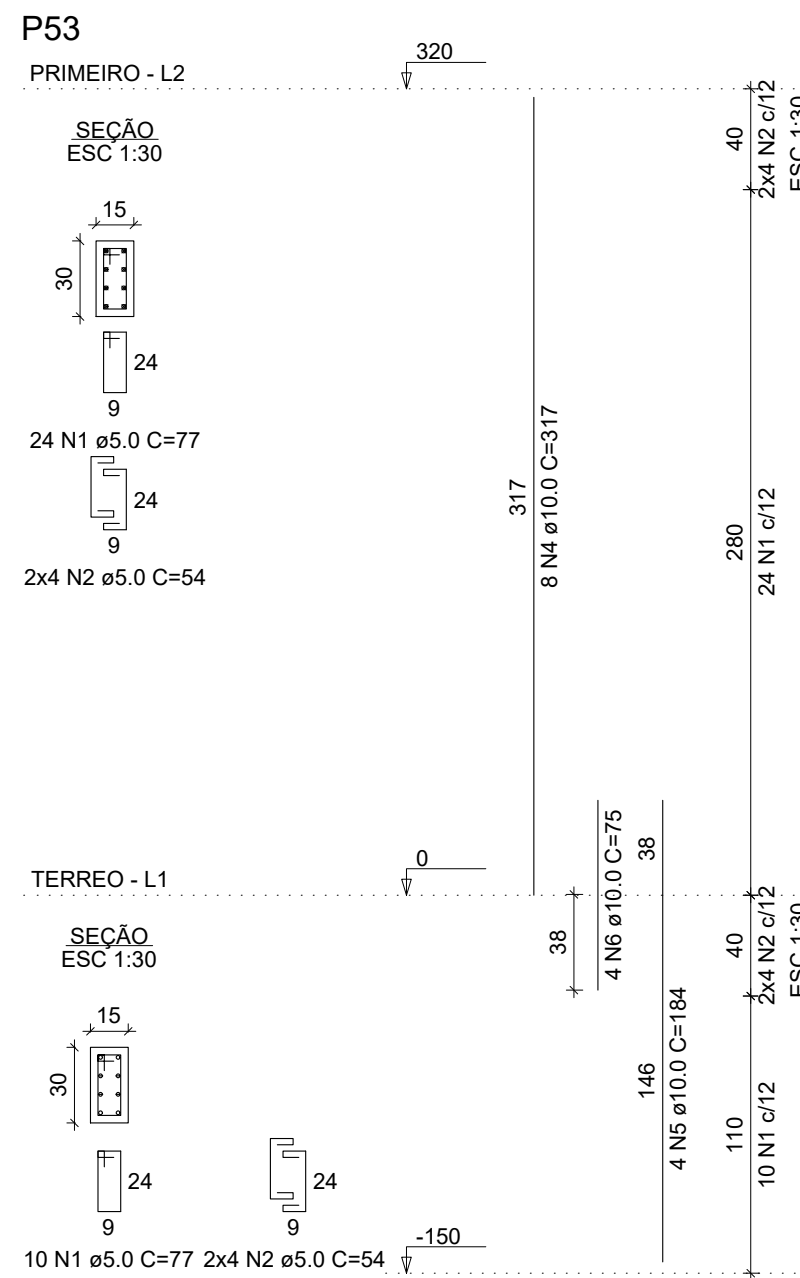
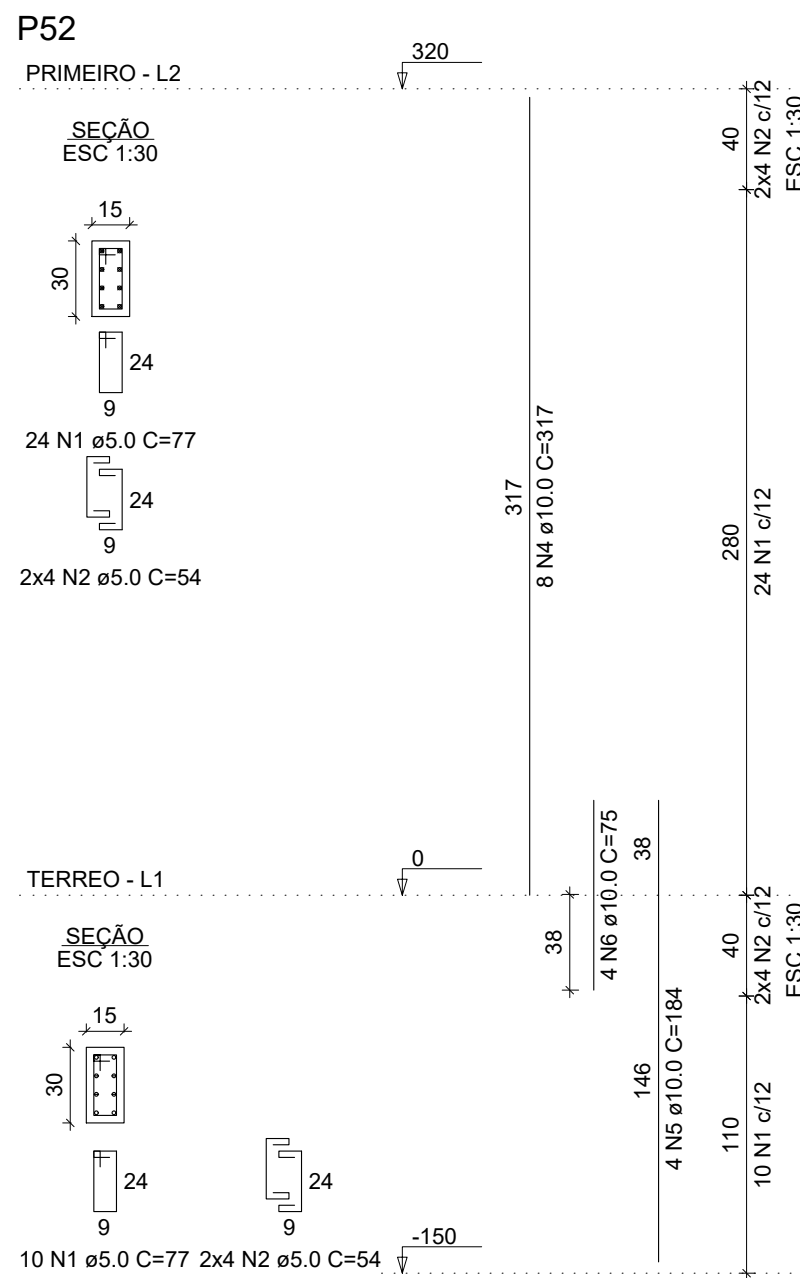
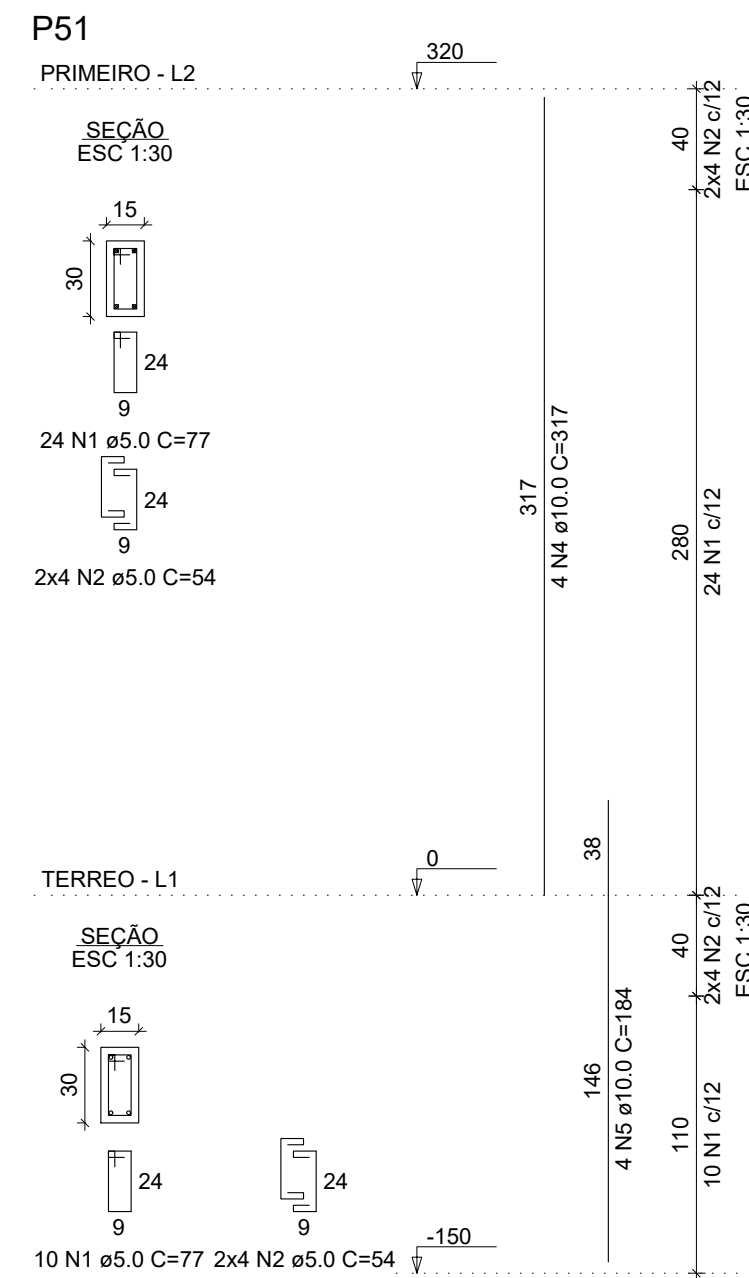
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C. TOTAL (cm)
CA80	1	5.0	289	77	22233
CA50	2	5.0	130	54	7020
	3	5.0	33	24	792
	4	10.0	28	317	8876
	6	10.0	24	184	4416
	7	10.0	8	167	1336
	8	10.0	4	75	300
	9	12.5	14	193	2702
	10	12.5	6	317	1902

RESUMO DO AÇO

ACO	DIAM (mm)	C. TOTAL (cm)	PESO + 0% (kg)
CA50	10.0	177.9	109.7
CA80	5.0	300.7	44.4
PESO TOTAL (kg)			
CA50		154	
CA80		46.3	

Volume de concreto (C-25) = 1.85 m³
Área de forma = 36.90 m²



RELAÇÃO DO AÇO

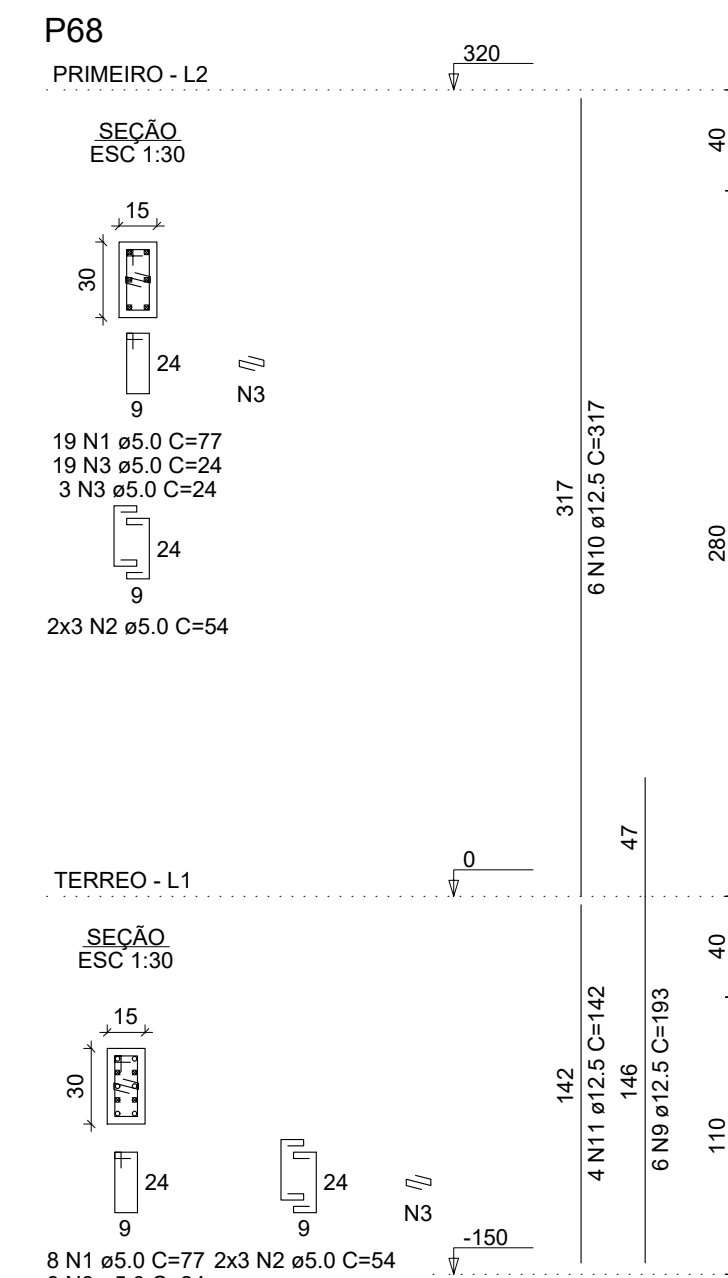
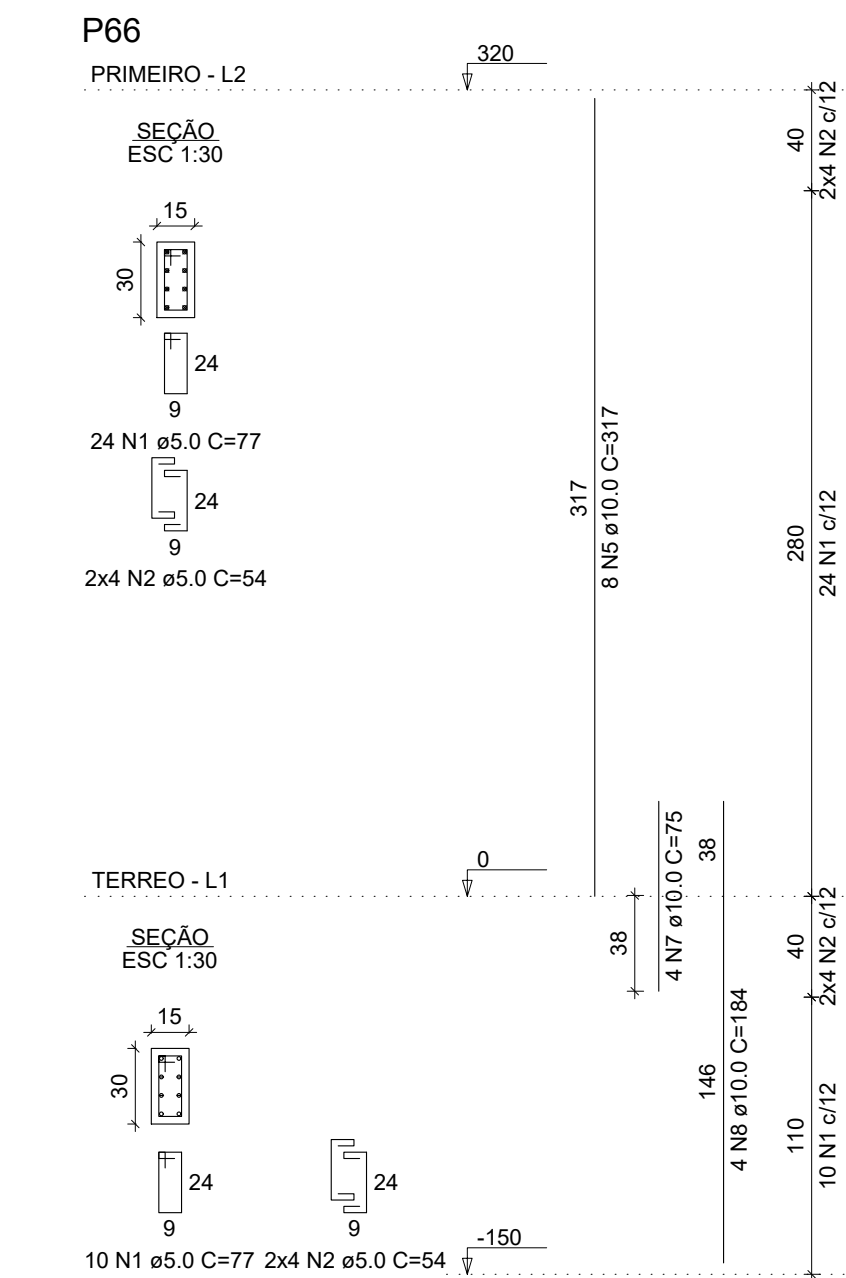
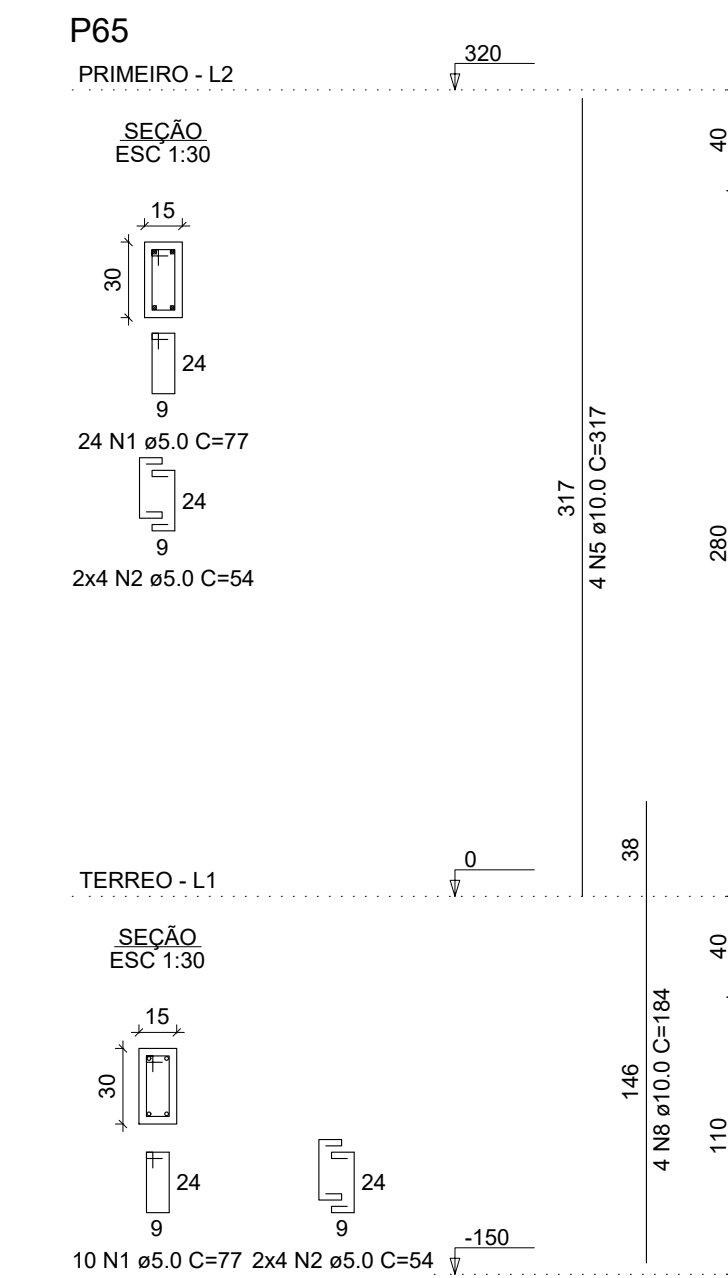
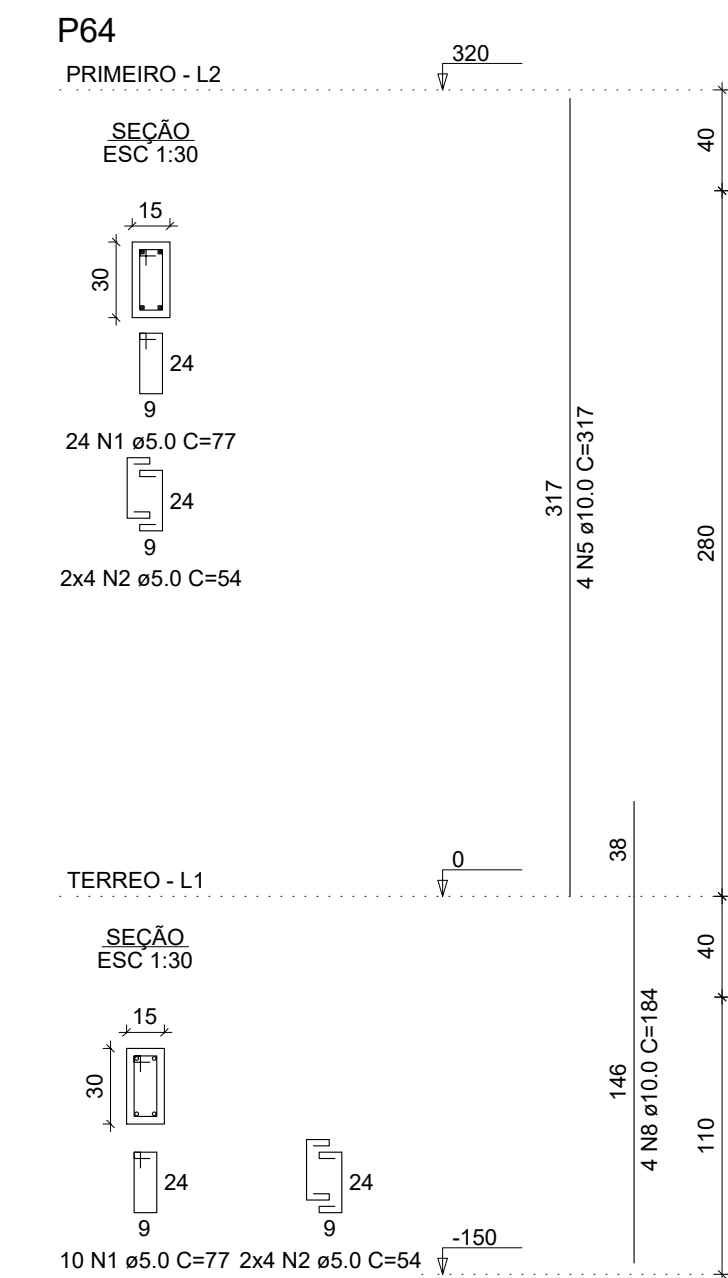
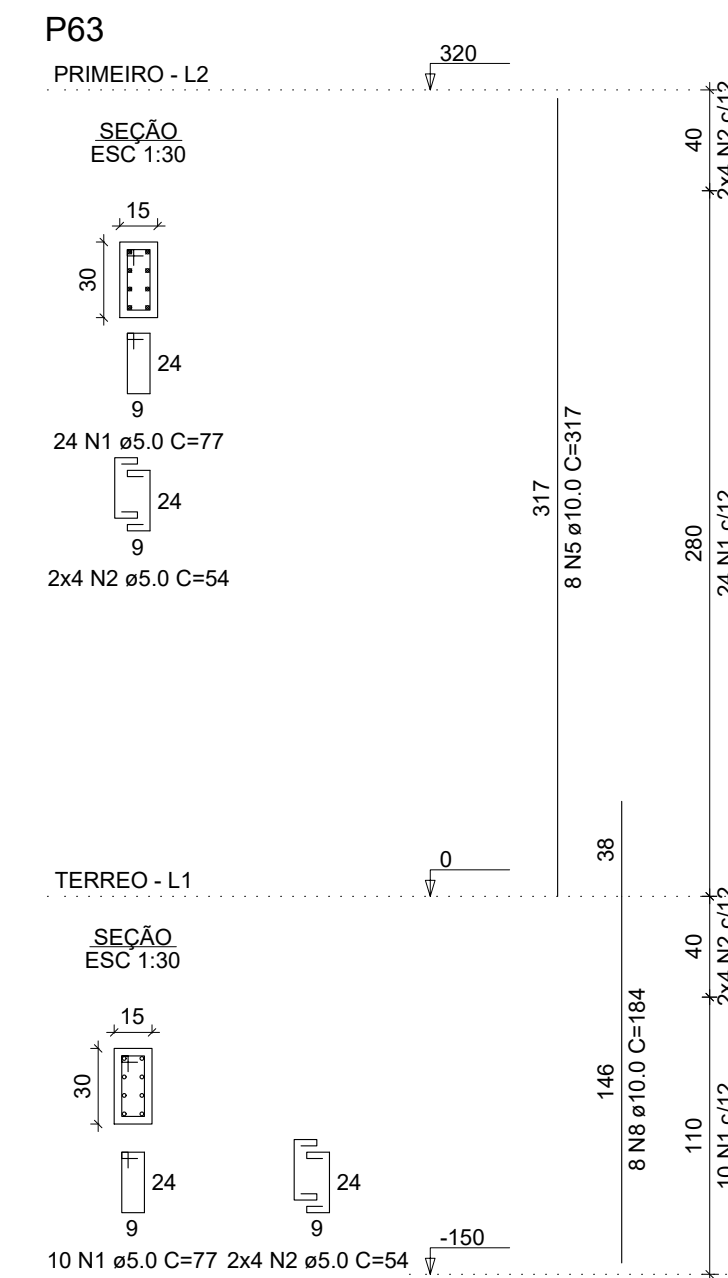
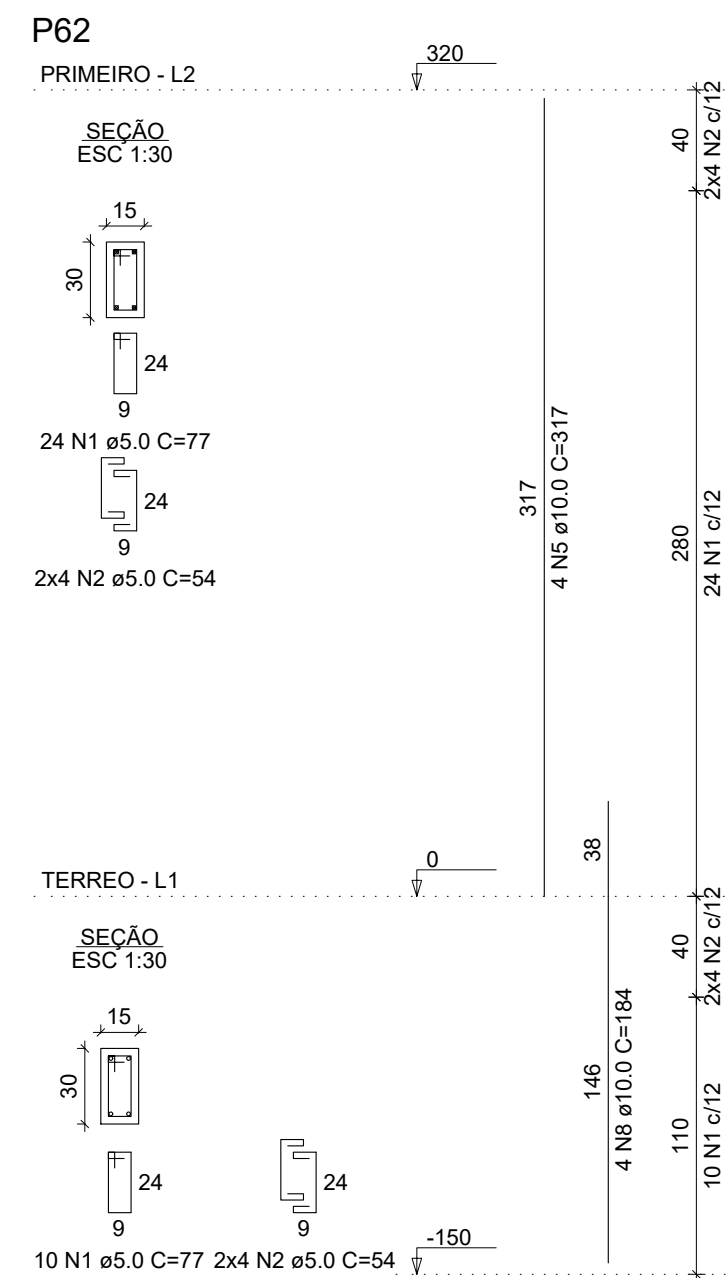
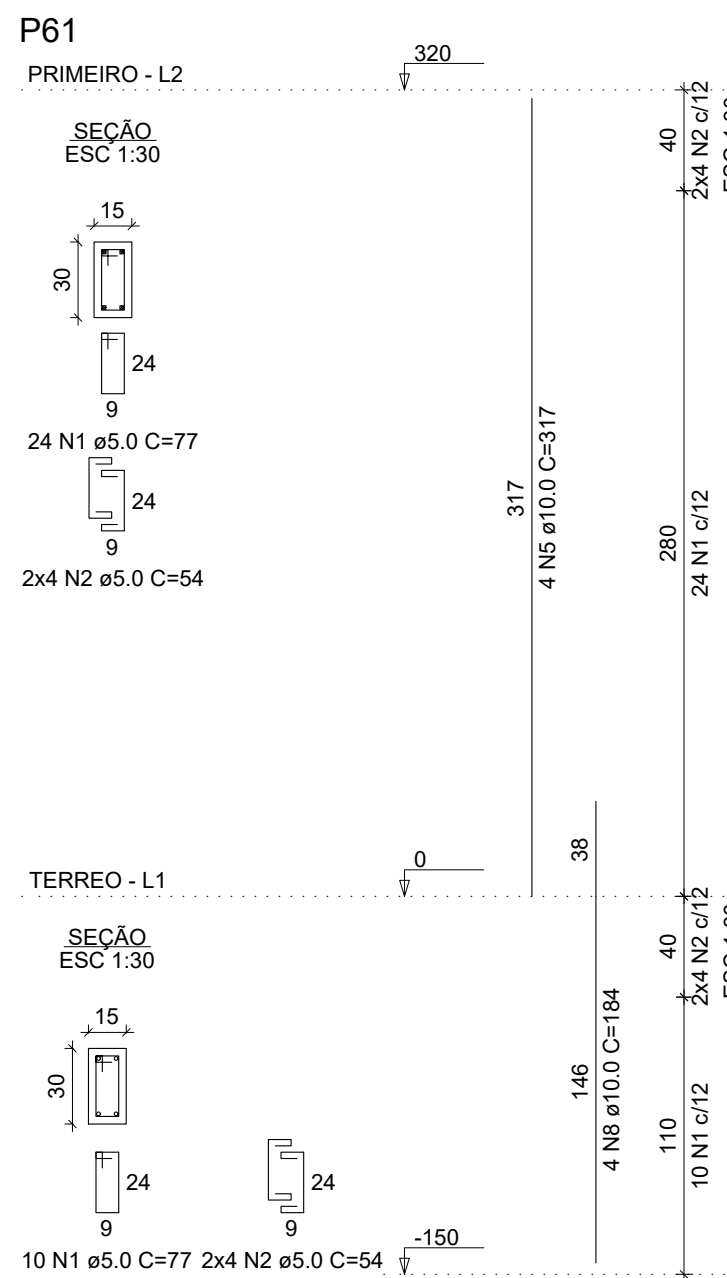
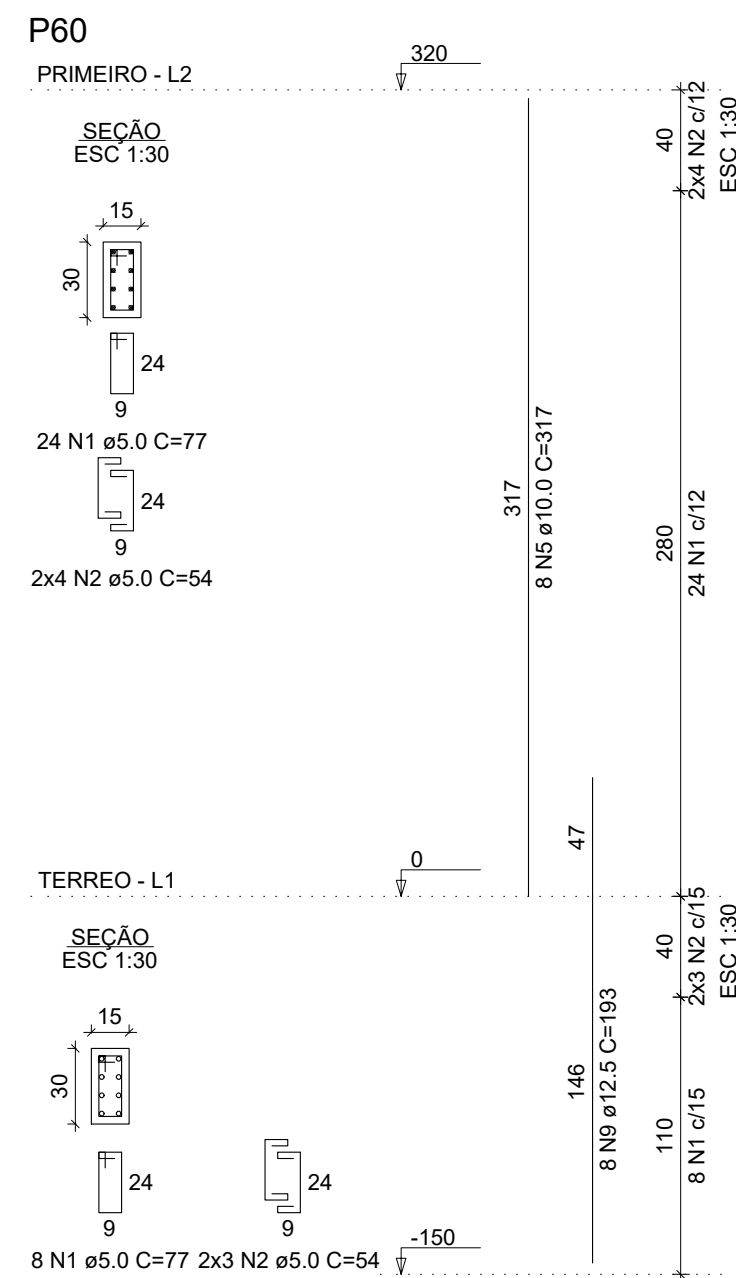
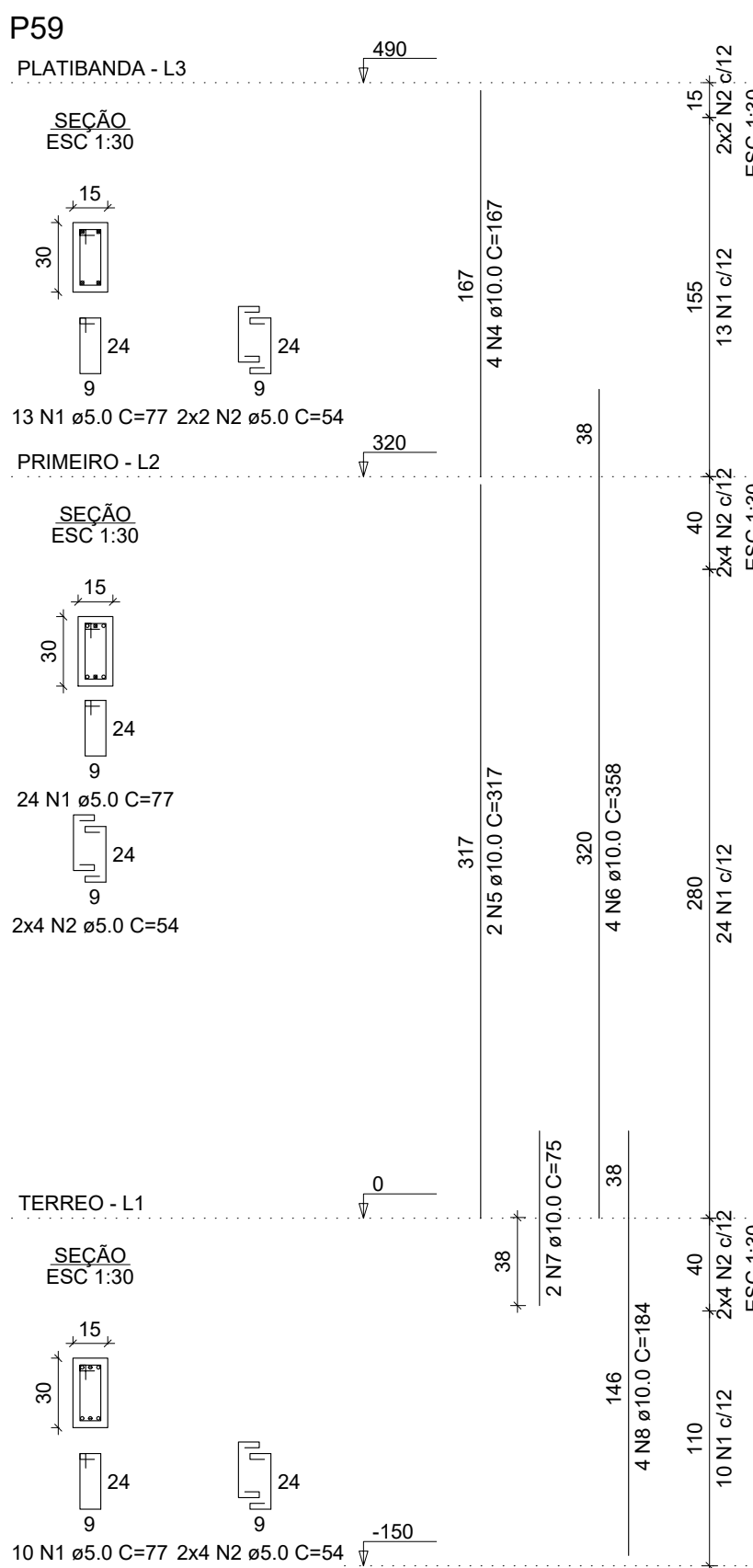
ACO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
P51-L2	1	5.0	285	77	21945
P52-L1	2	5.0	132	54	7128
P53-L2	3	5.0	14	24	336
P54-L1	4	10.0	32	317	13314
P55-L1	5	10.0	36	184	6624
P56-L2	6	10.0	2	142	284
P57-L1	7	10.0	4	157	628
P58-L2	8	10.0	4	358	1432

RESUMO DO AÇO

ACO	DIAM (mm)	C TOTAL (m)	PESO + 0% (kg)
CA50	10.0	230.7	142.2
CA60	5.0	294.1	45.3
PESO TOTAL (kg)			142.2
CA50			45.3

Volume de concreto (C-25) = 1.77 m³

Área de forma = 35.37 m²



RELAÇÃO DO AÇO

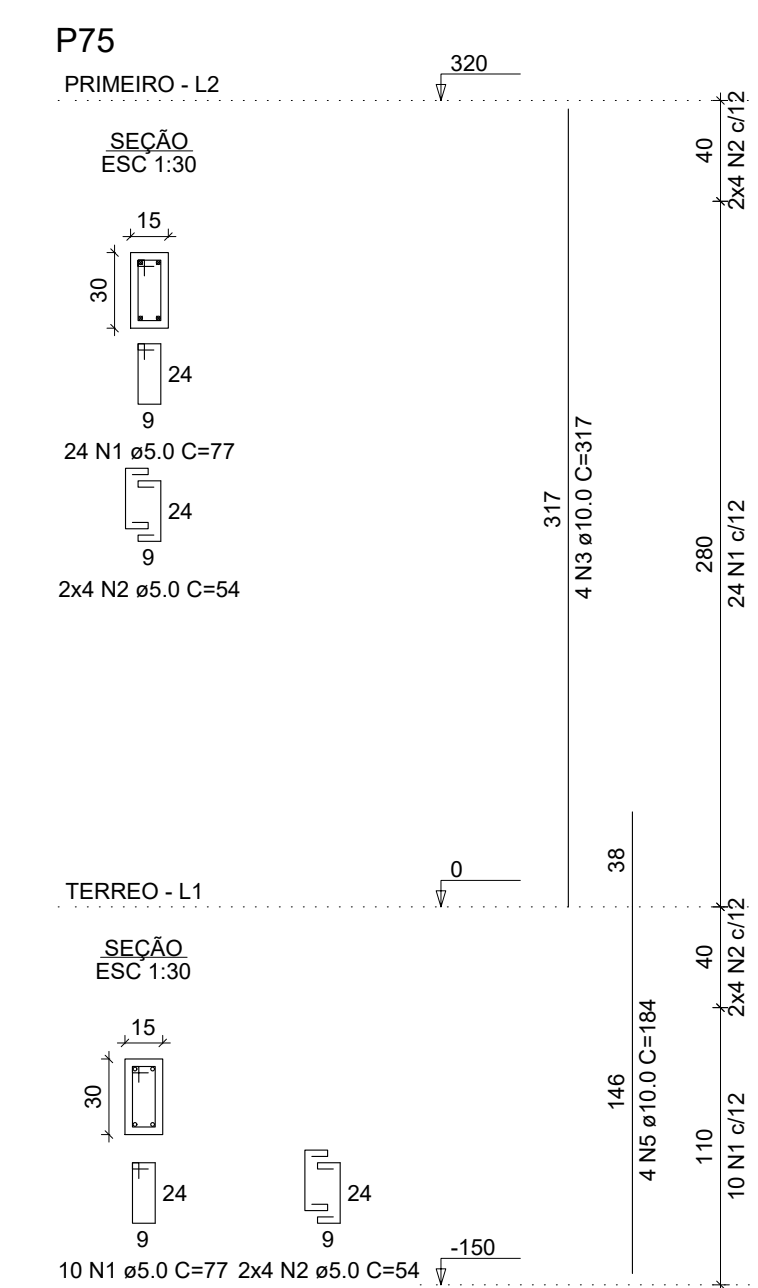
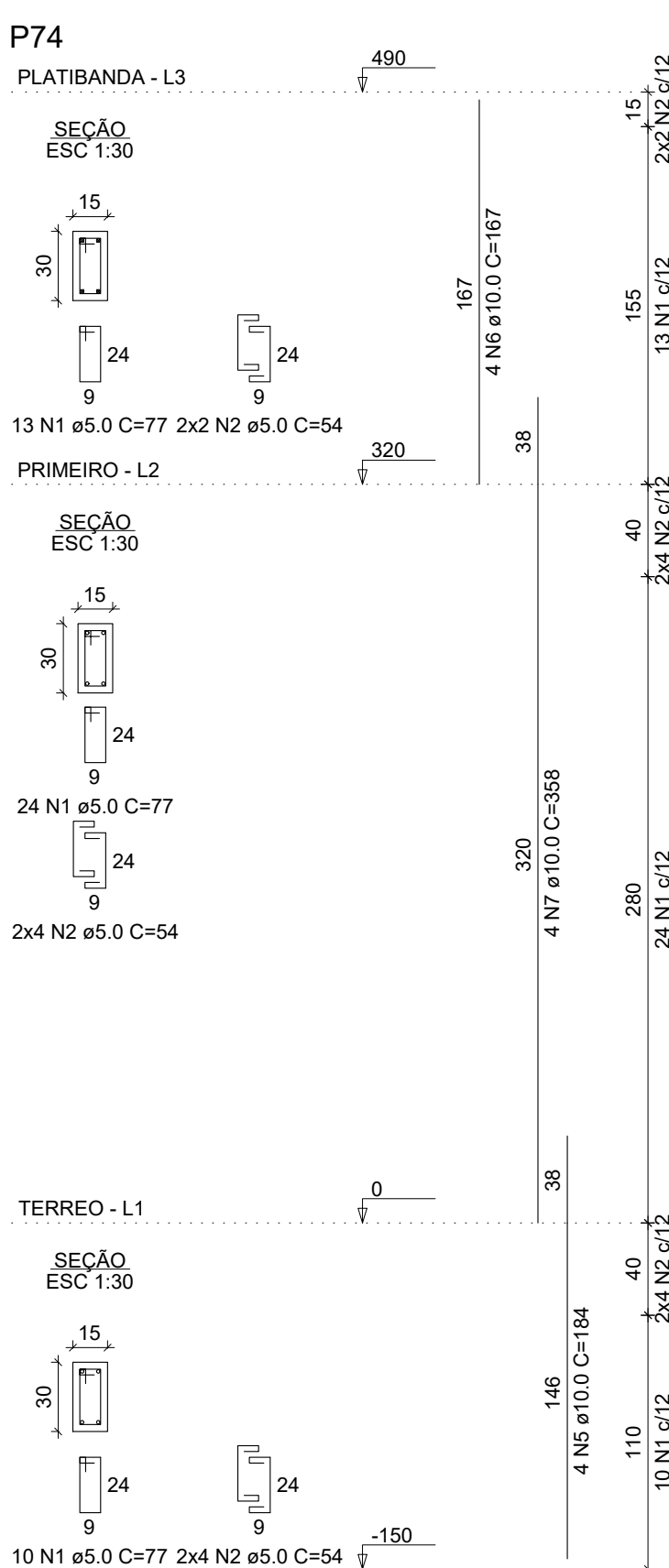
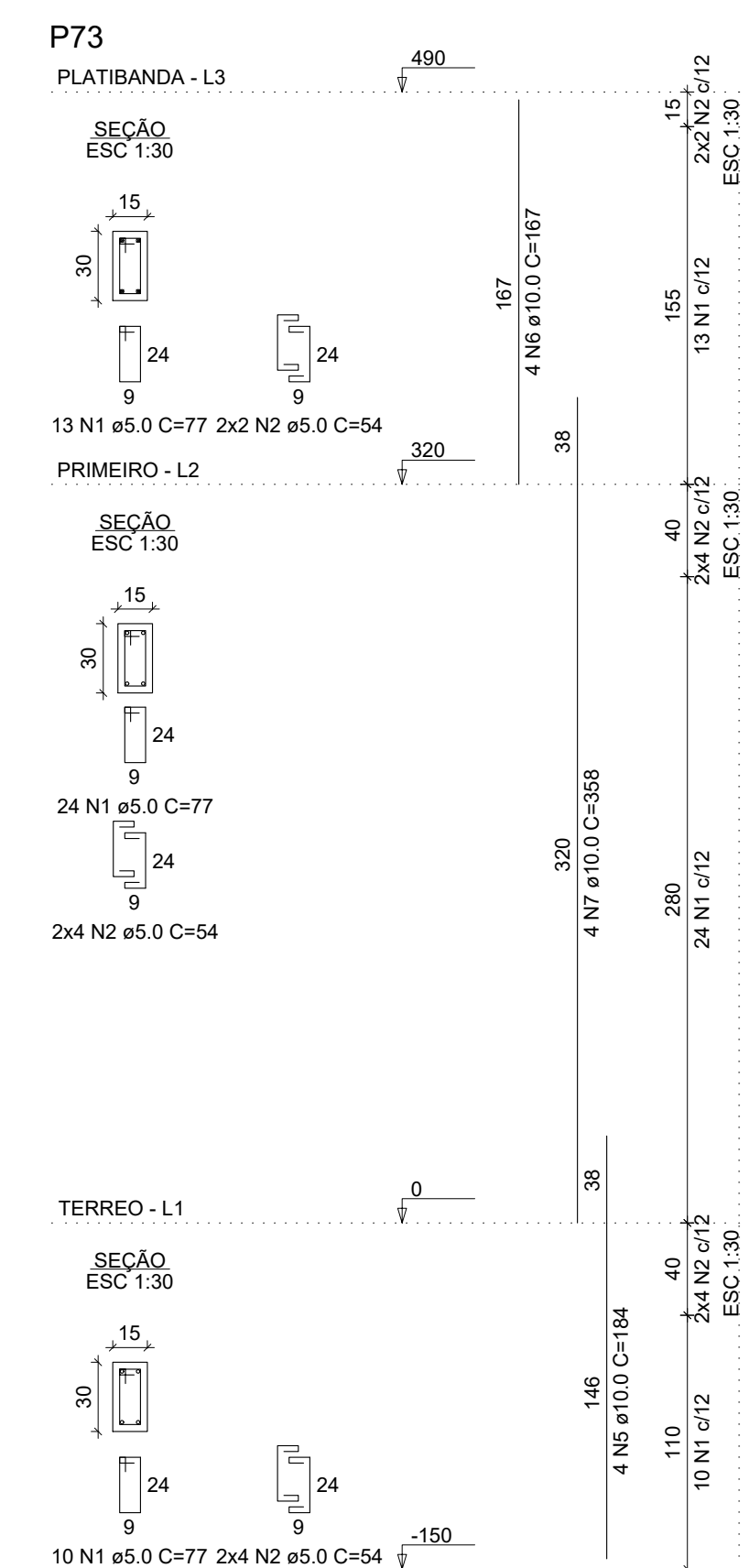
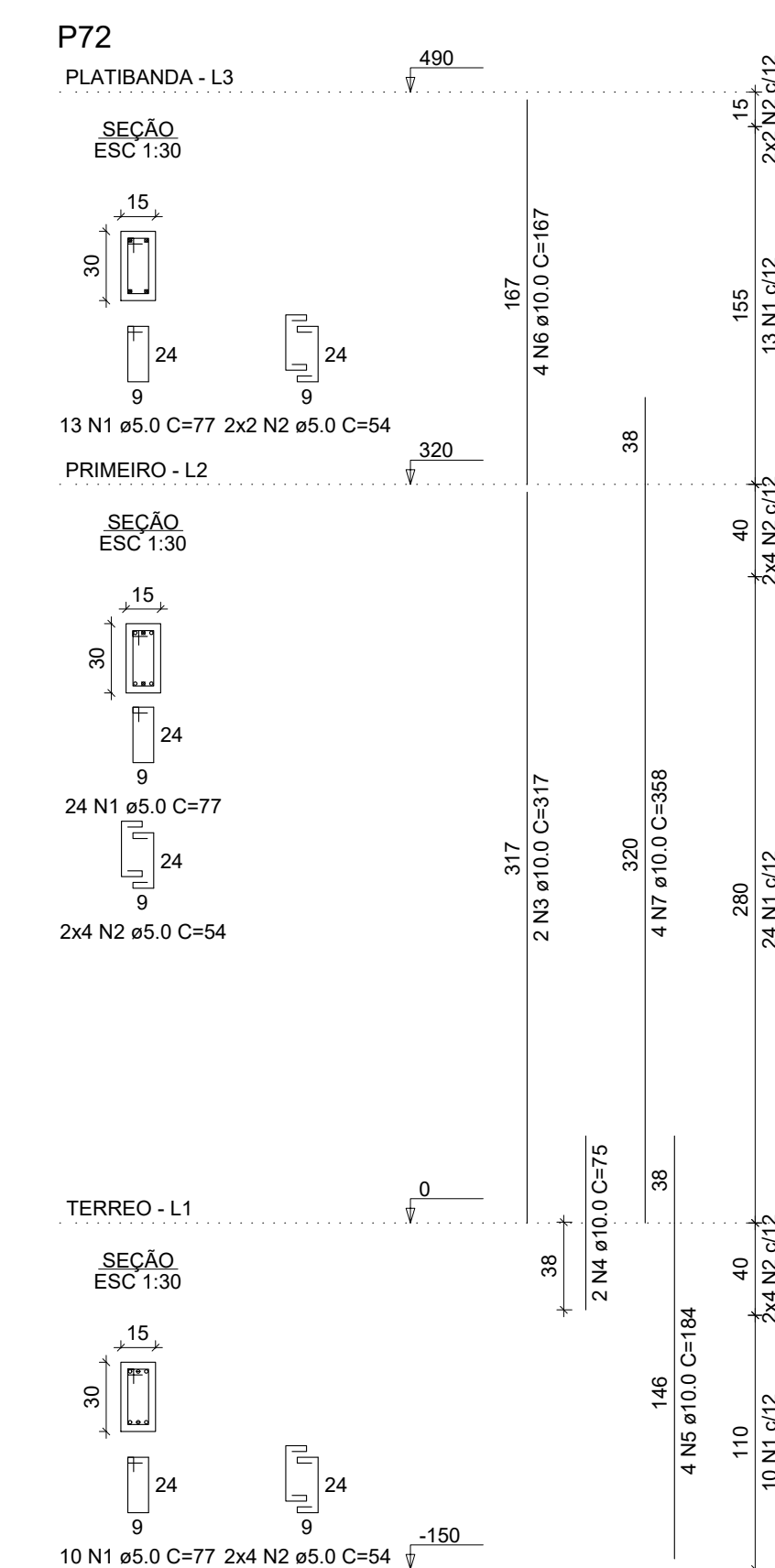
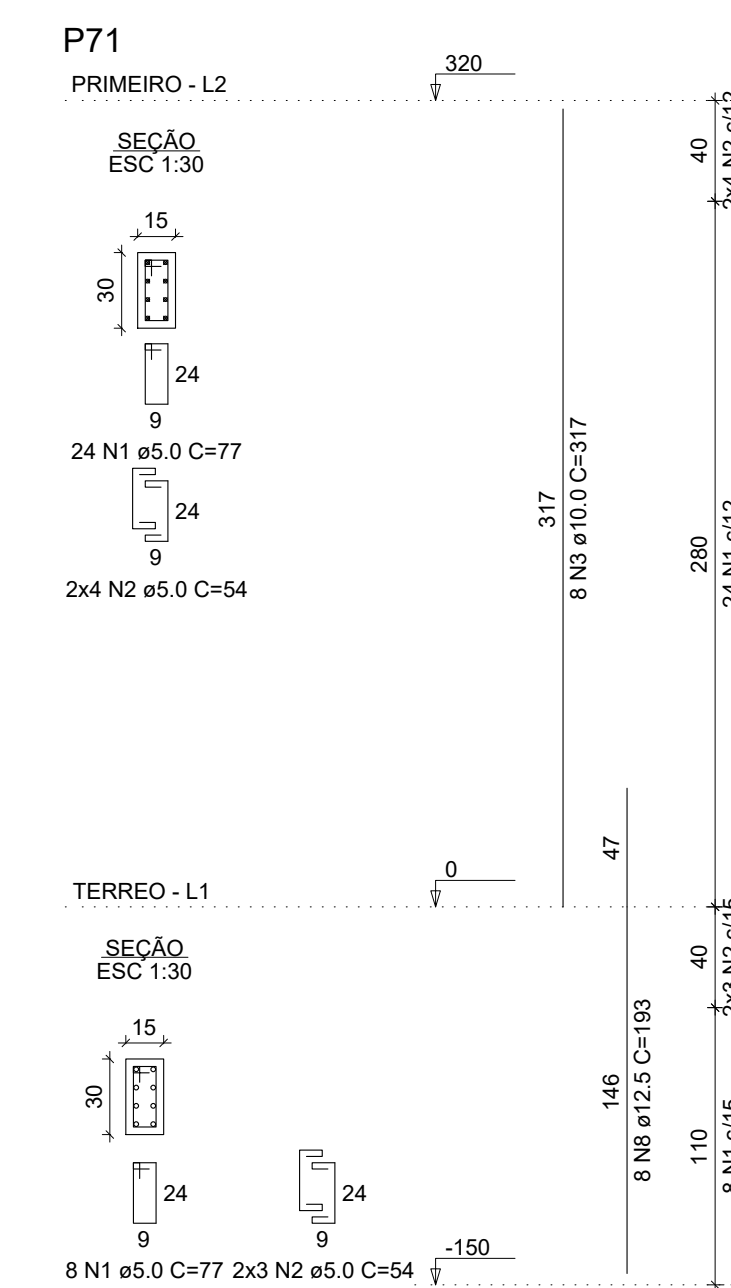
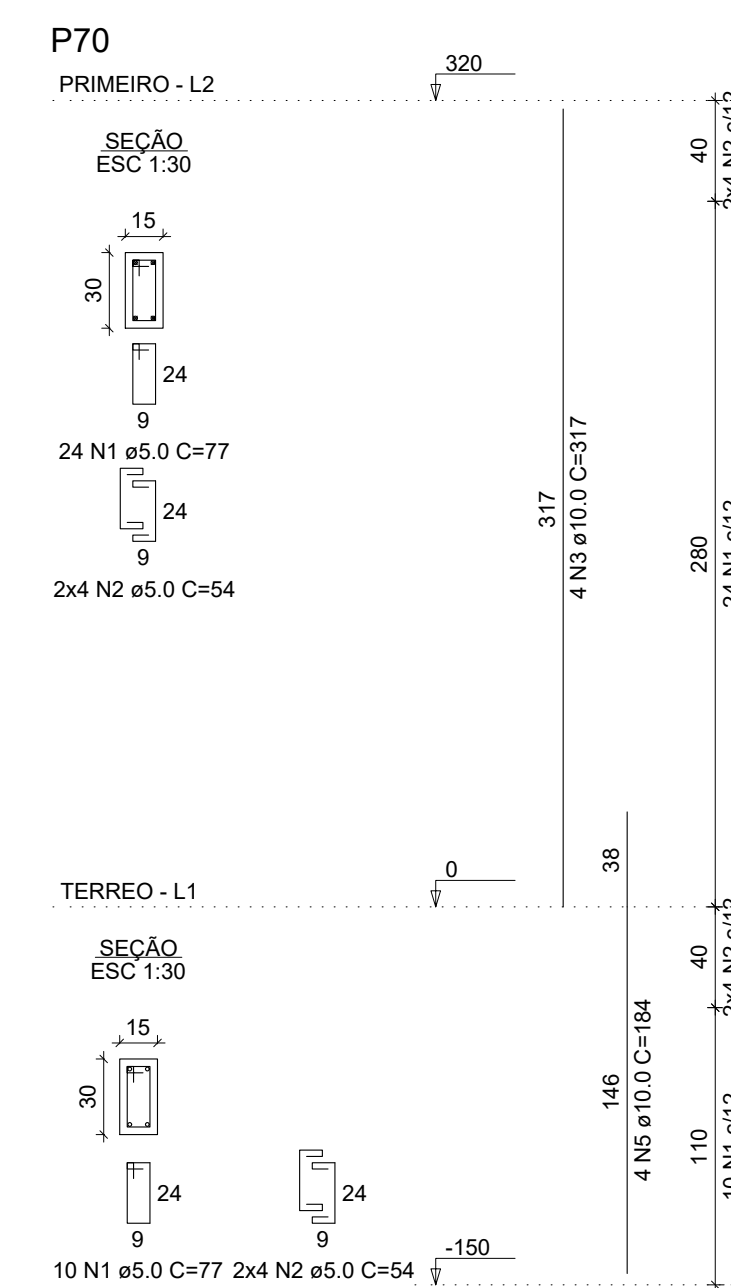
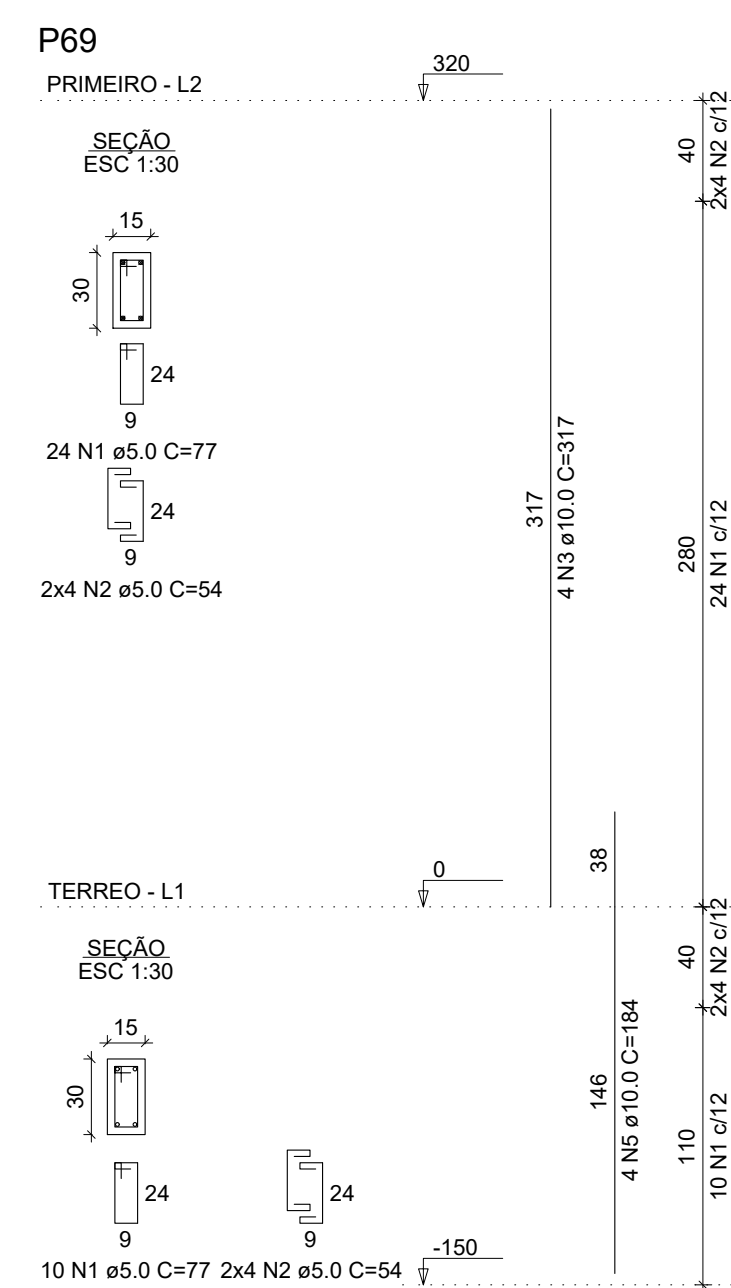
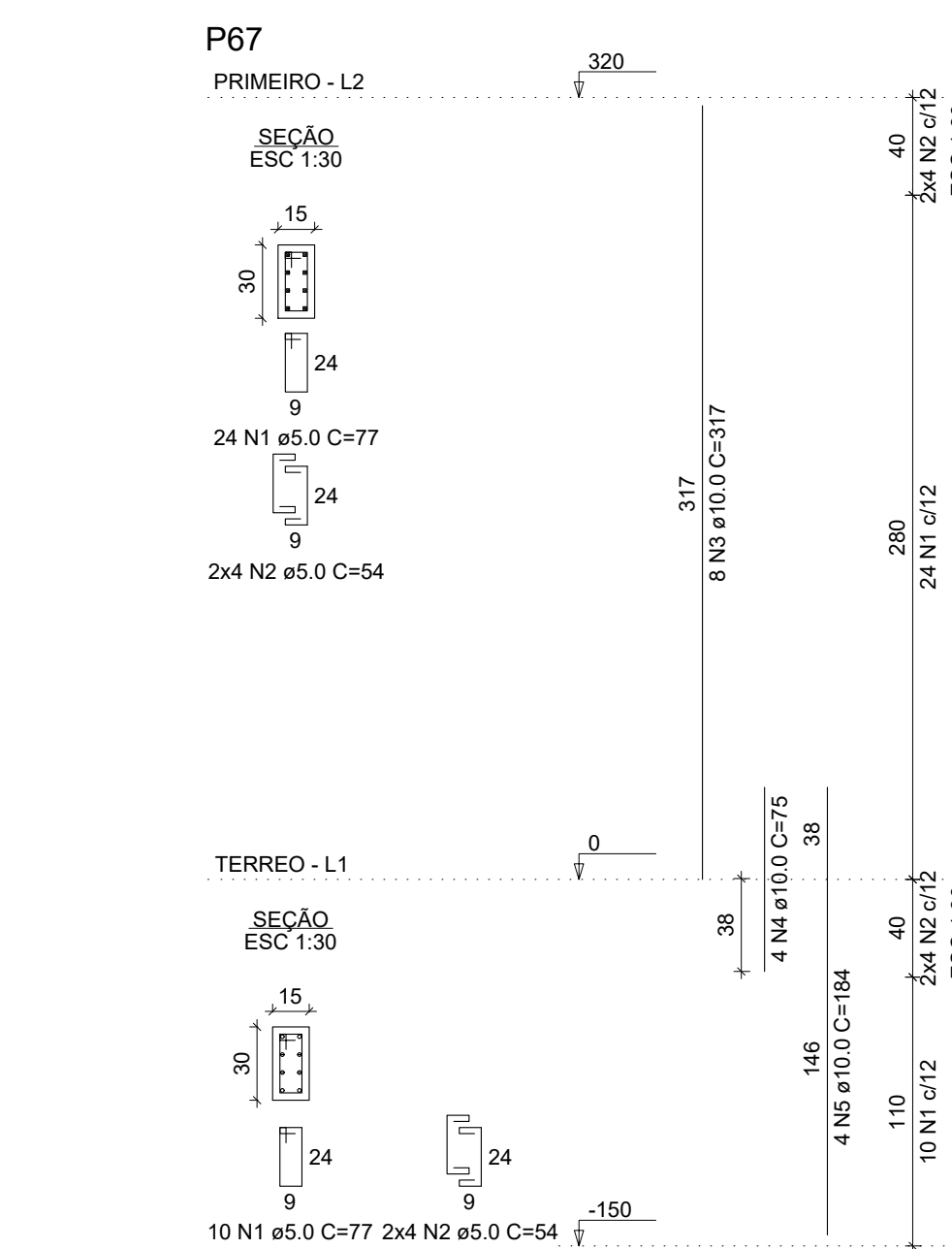
ACO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
CA60	1	5.0	310	77	23870
CA50	2	5.0	142	54	7668
CA50	3	5.0	33	24	792
CA50	4	10.0	4	167	668
CA50	5	10.0	42	317	13314
CA50	6	10.0	32	184	5888
CA50	7	10.0	6	75	450
CA50	8	10.0	32	184	5888
CA50	9	12.5	14	193	2702
CA50	10	12.5	6	317	1902
CA50	11	12.5	4	142	568

RESUMO DO AÇO

ACO	DIAM (mm)	C TOTAL (m)	PESO + 0% (kg)
CA50	10.0	217.5	134.1
CA60	12.5	51.7	49.8
PESO TOTAL (kg)			183.9
CA50			49.8

Volume de concreto (C-25) = 1.98 m³

Área de forma = 39.60 m²



RELAÇÃO DO AÇO

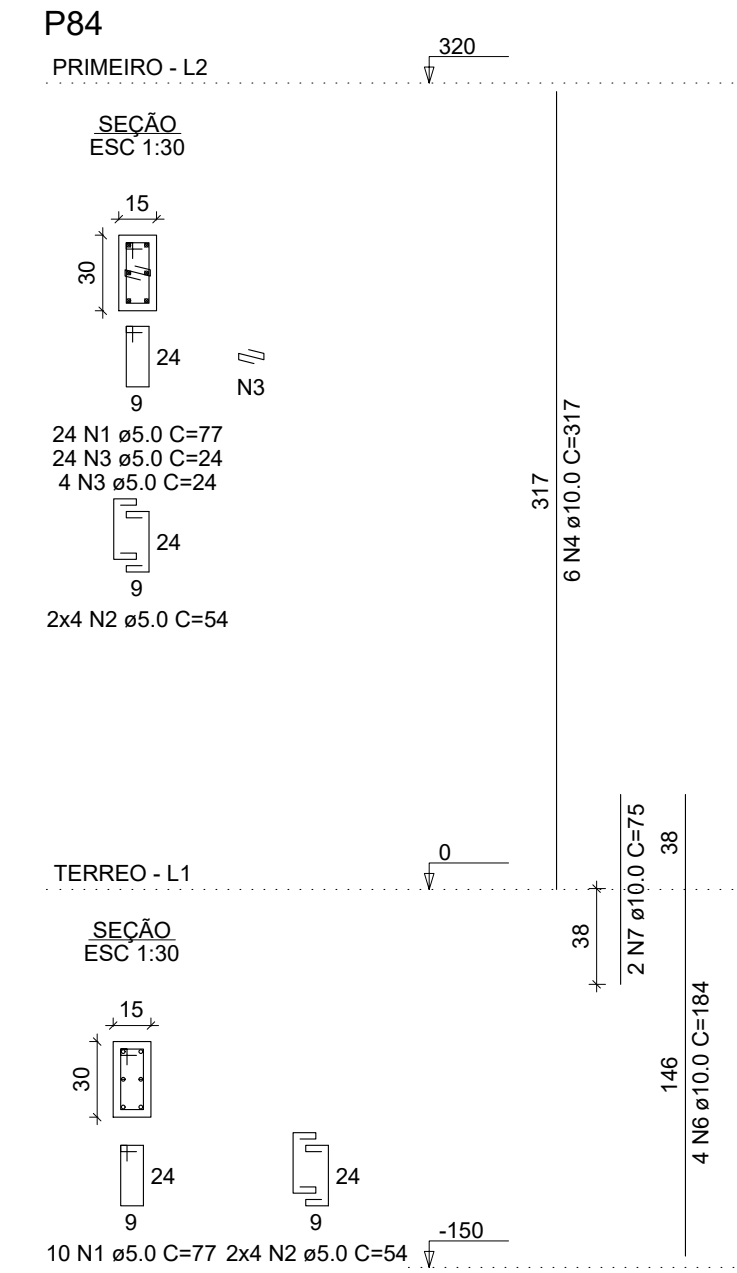
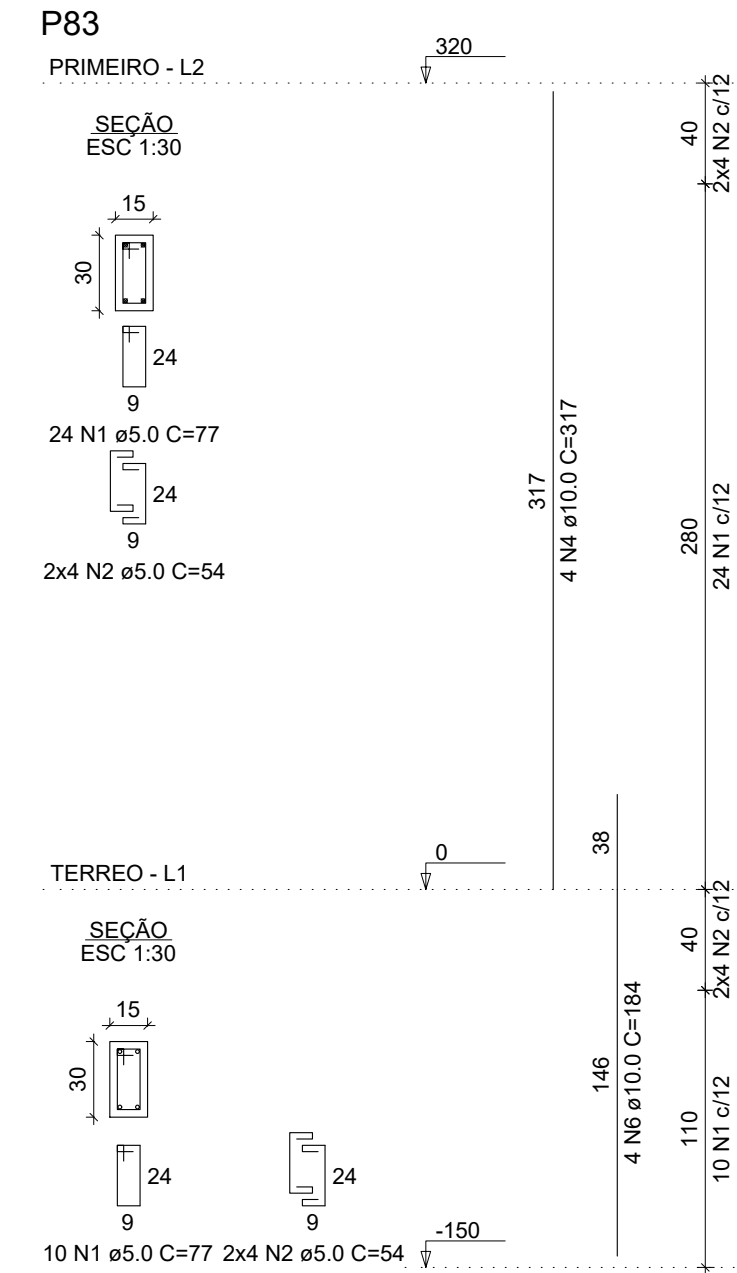
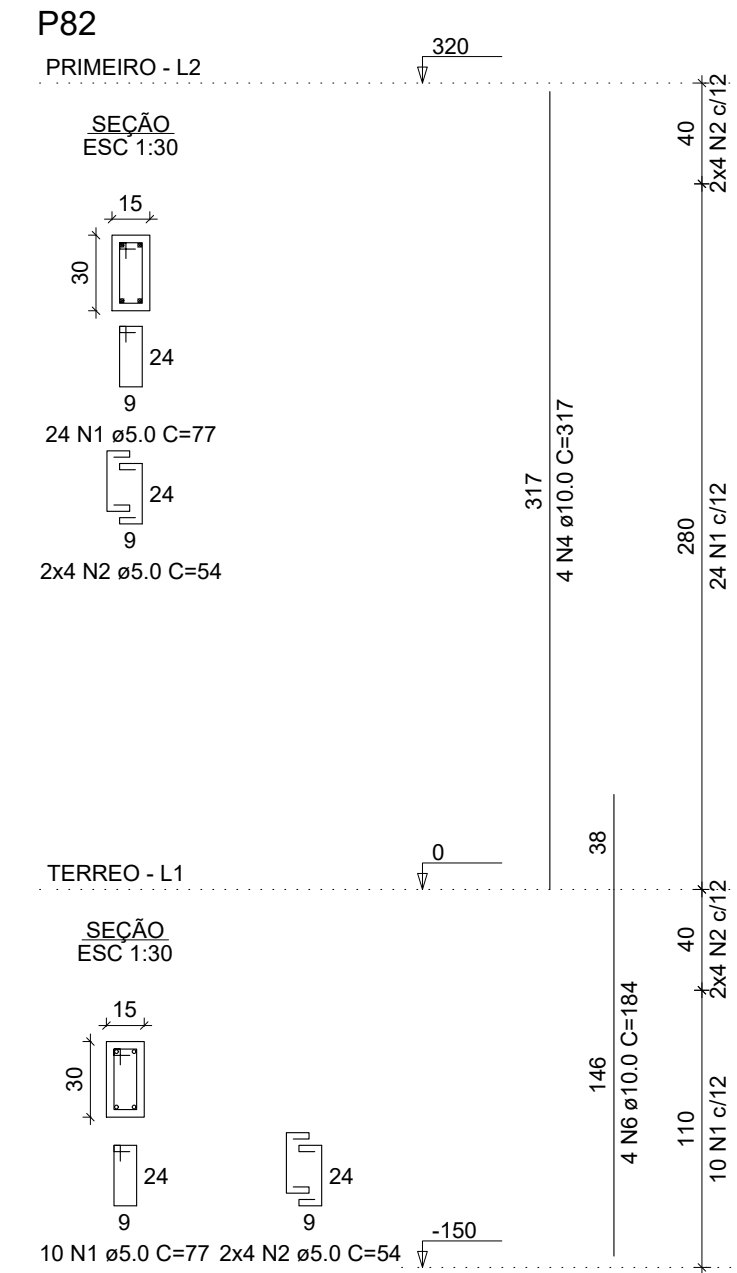
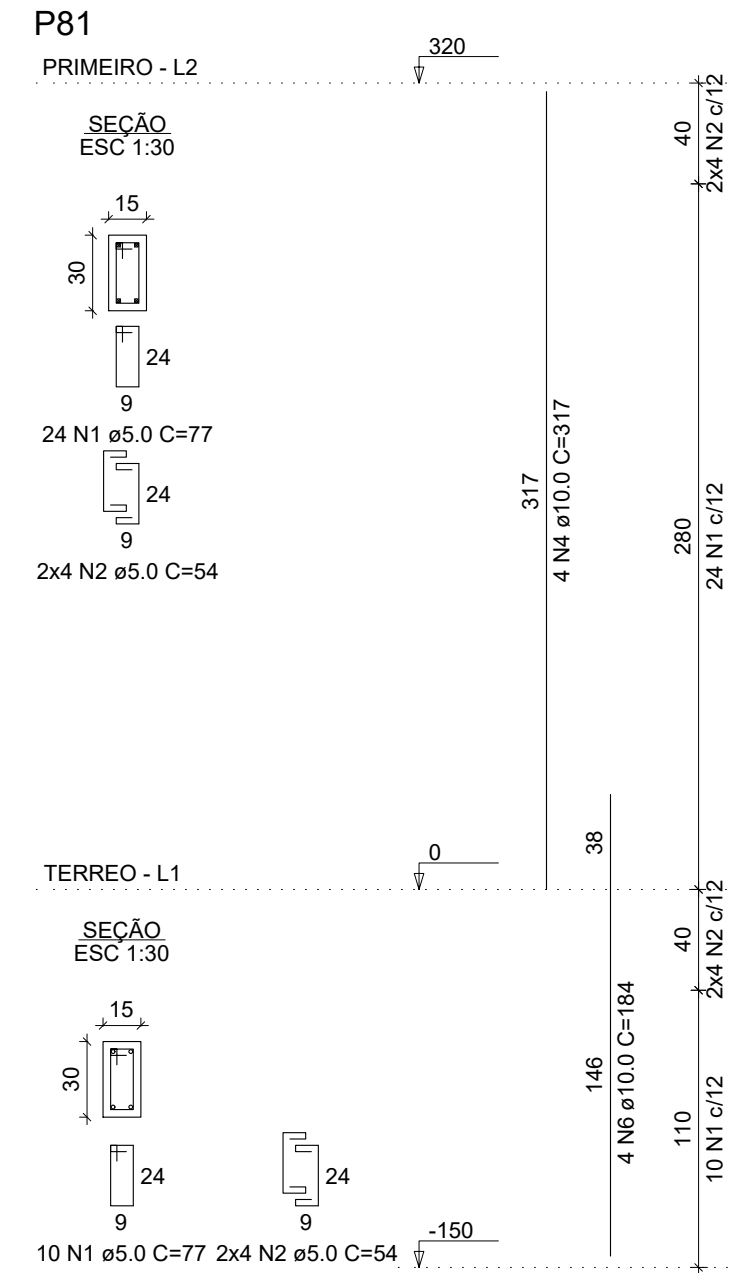
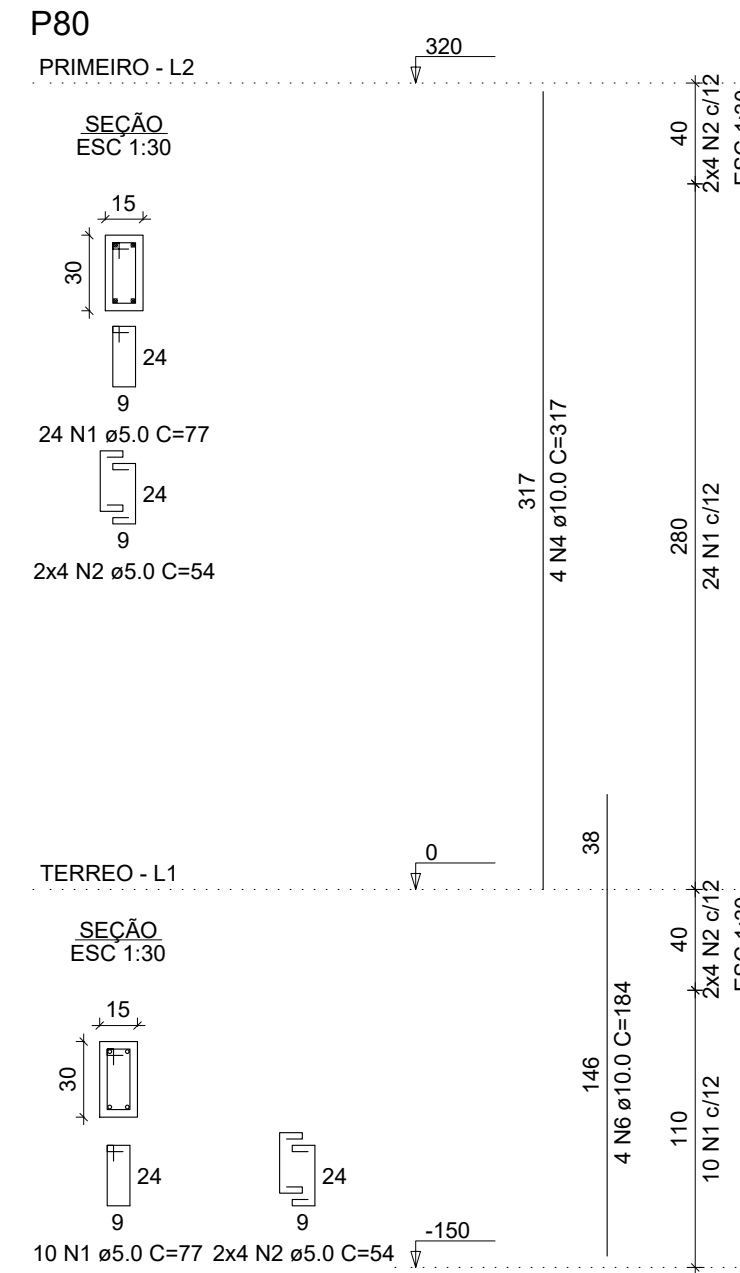
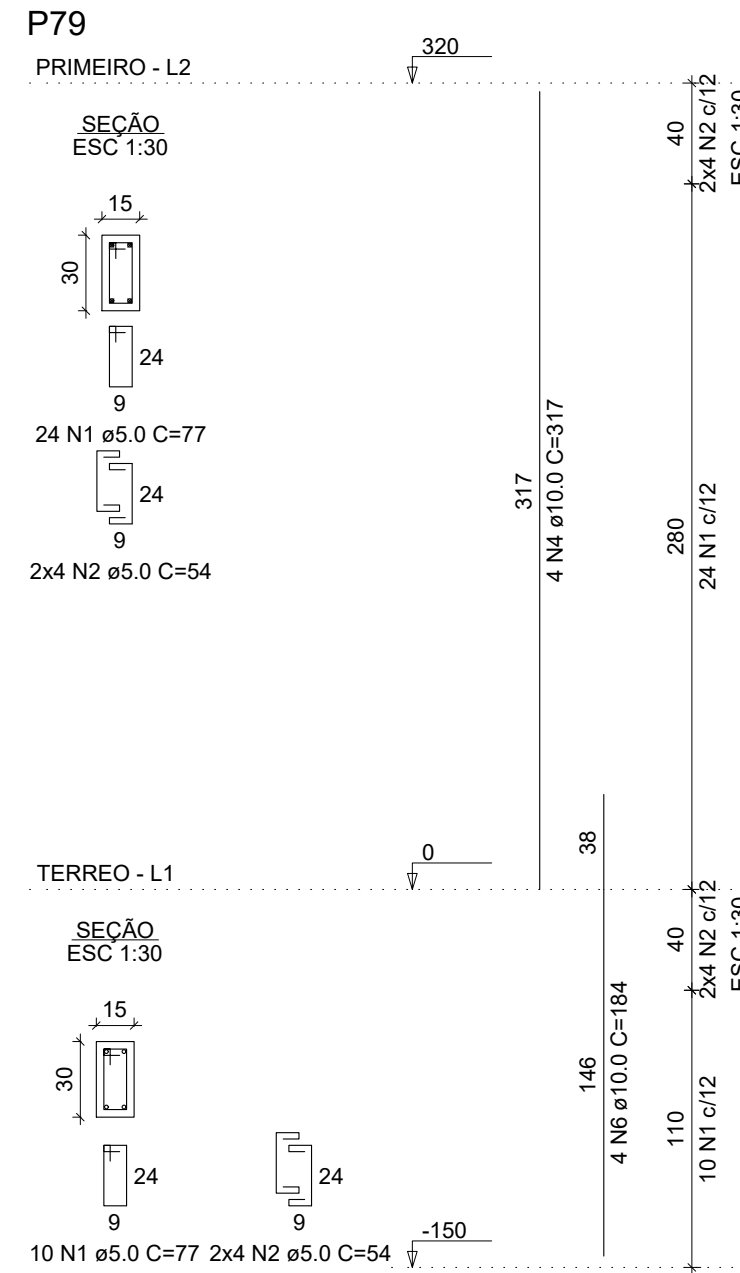
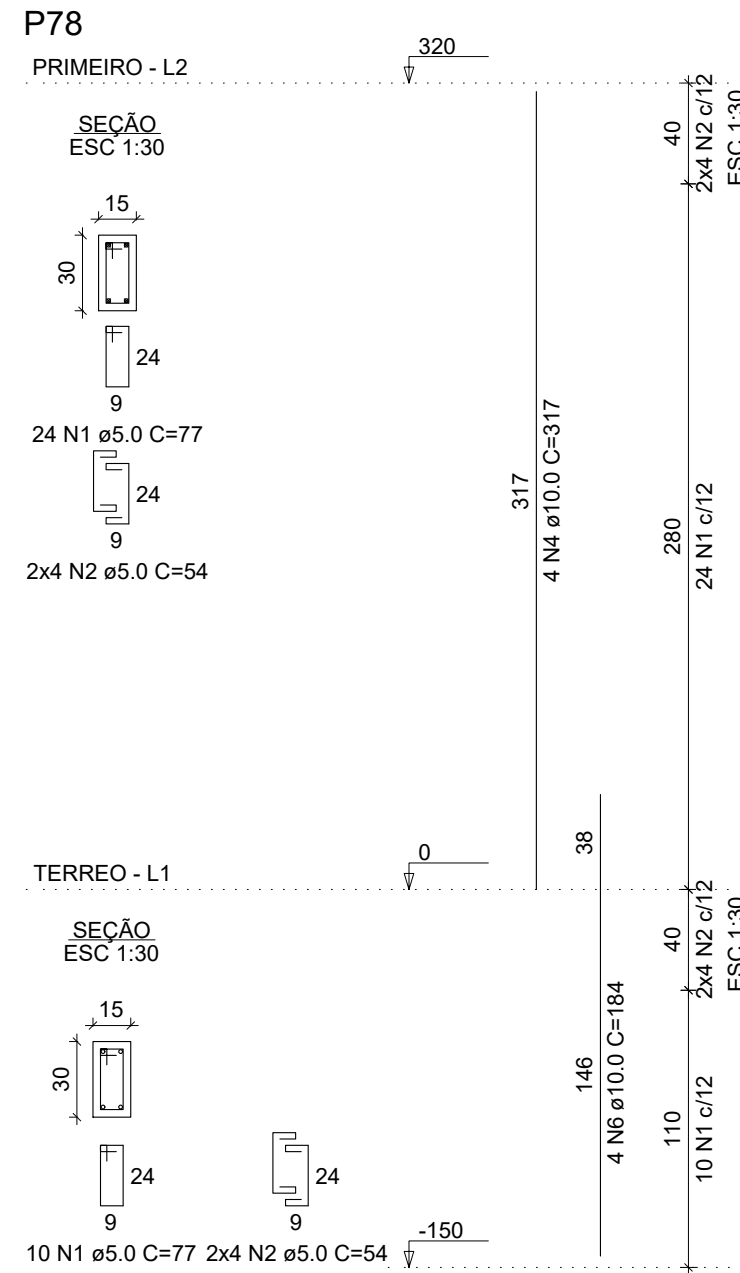
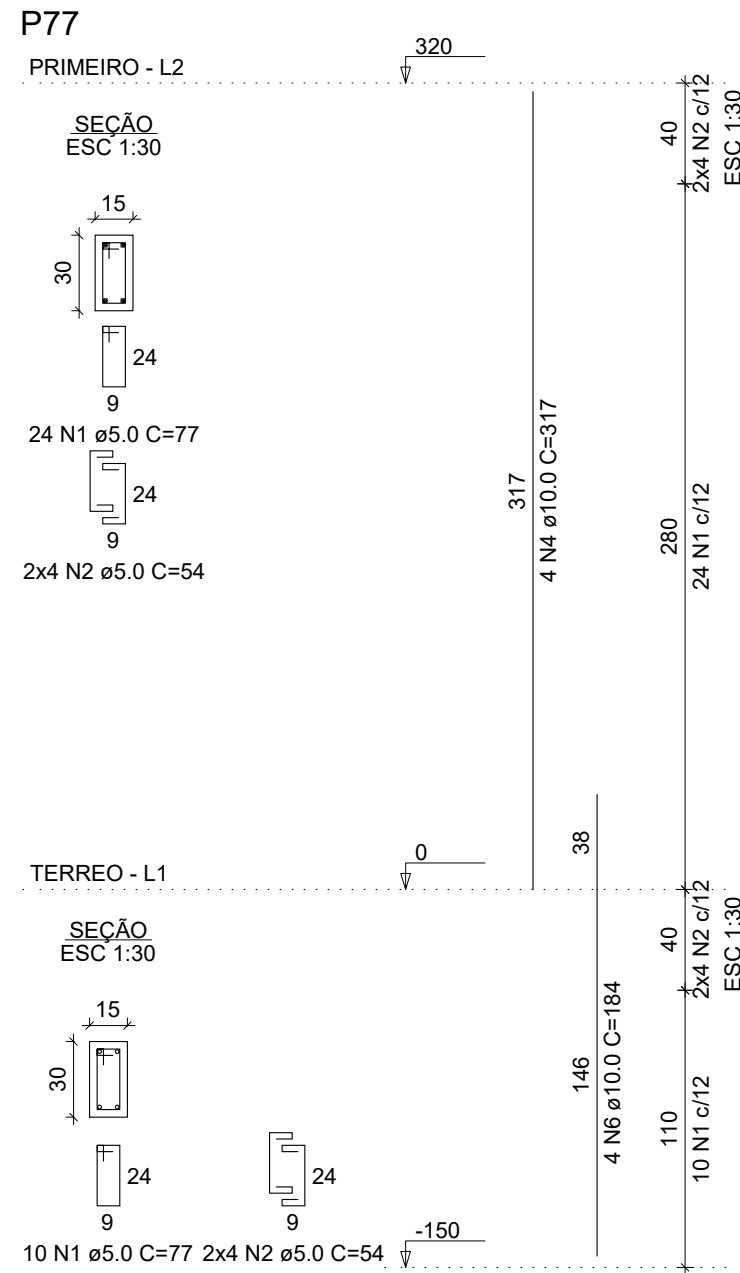
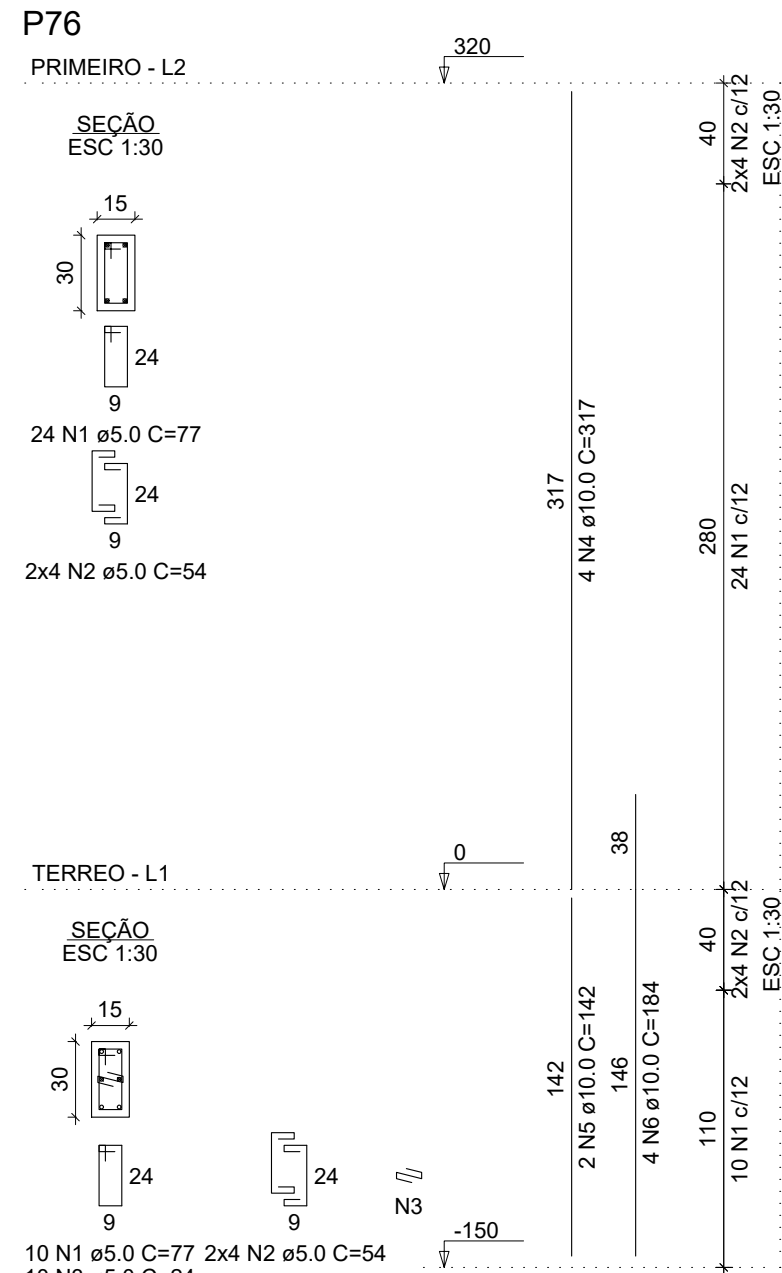
ACO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
P67-L2	1	5.0	309	77	23793
P68-L1	2	5.0	132	54	7152
P71-L1	3	5.0	30	317	9510
P72-L2	4	10.0	28	184	5152
P73-L1	5	10.0	28	184	5152
P74-L3	6	10.0	12	358	4296
P75-L1	7	12.5	8	193	1544

RESUMO DO AÇO

ACO	DIAM (mm)	C TOTAL (m)	PESO + 0% (kg)
CA50	10.0	214.1	132
CA60	5.0	312.4	48.2
PESO TOTAL (kg)			146.9
CA50			48.2

Volume de concreto (C-25) = 1.92 m³

Área de forma = 35.43 m²



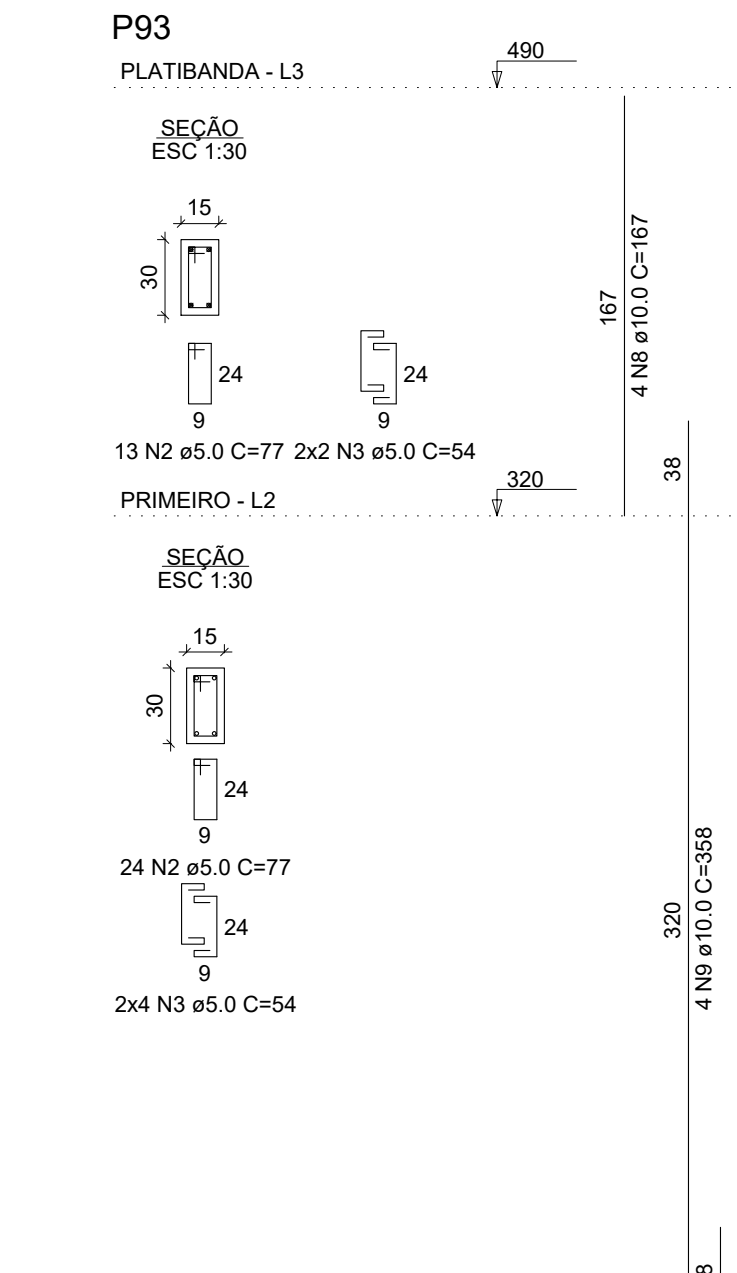
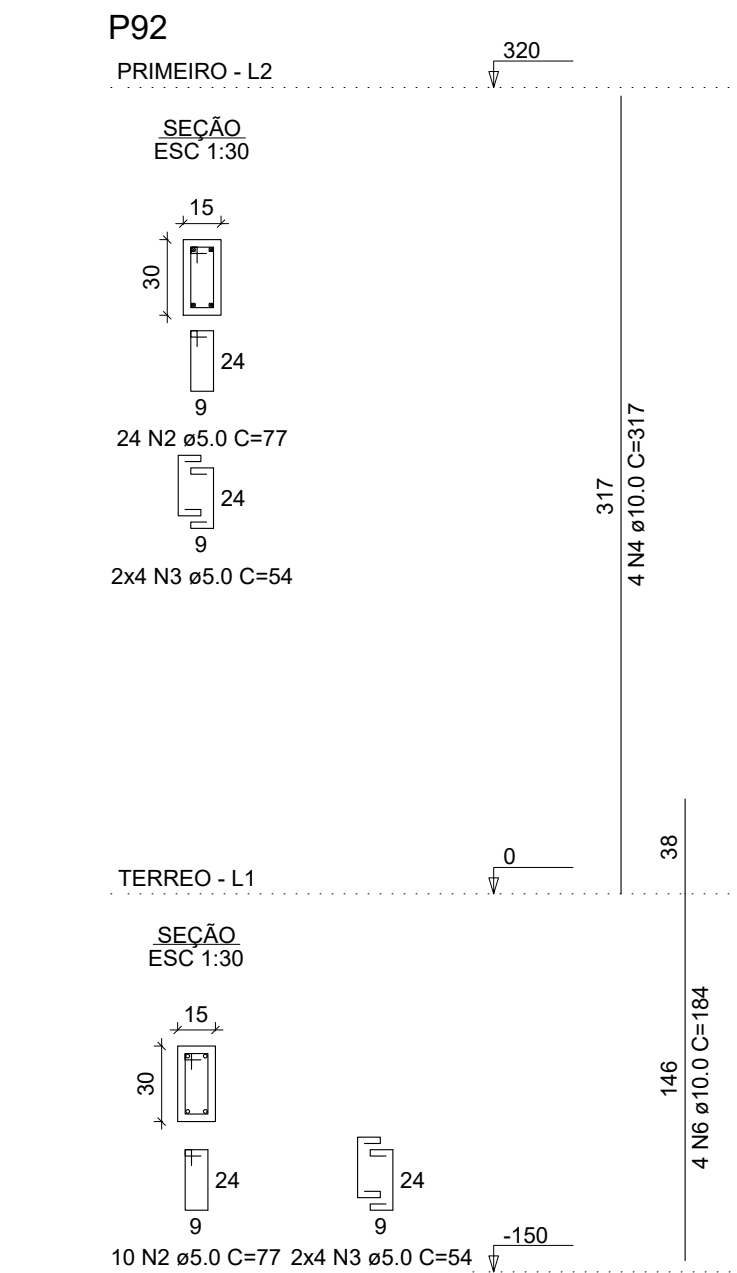
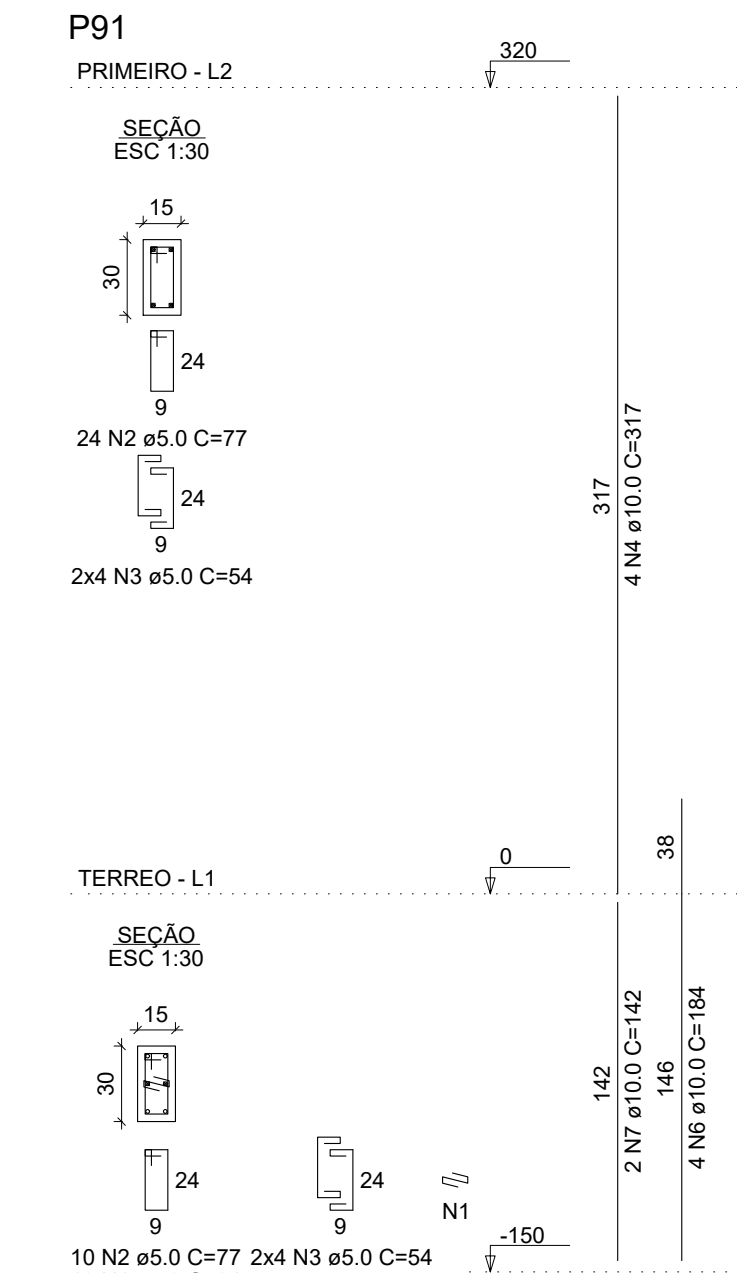
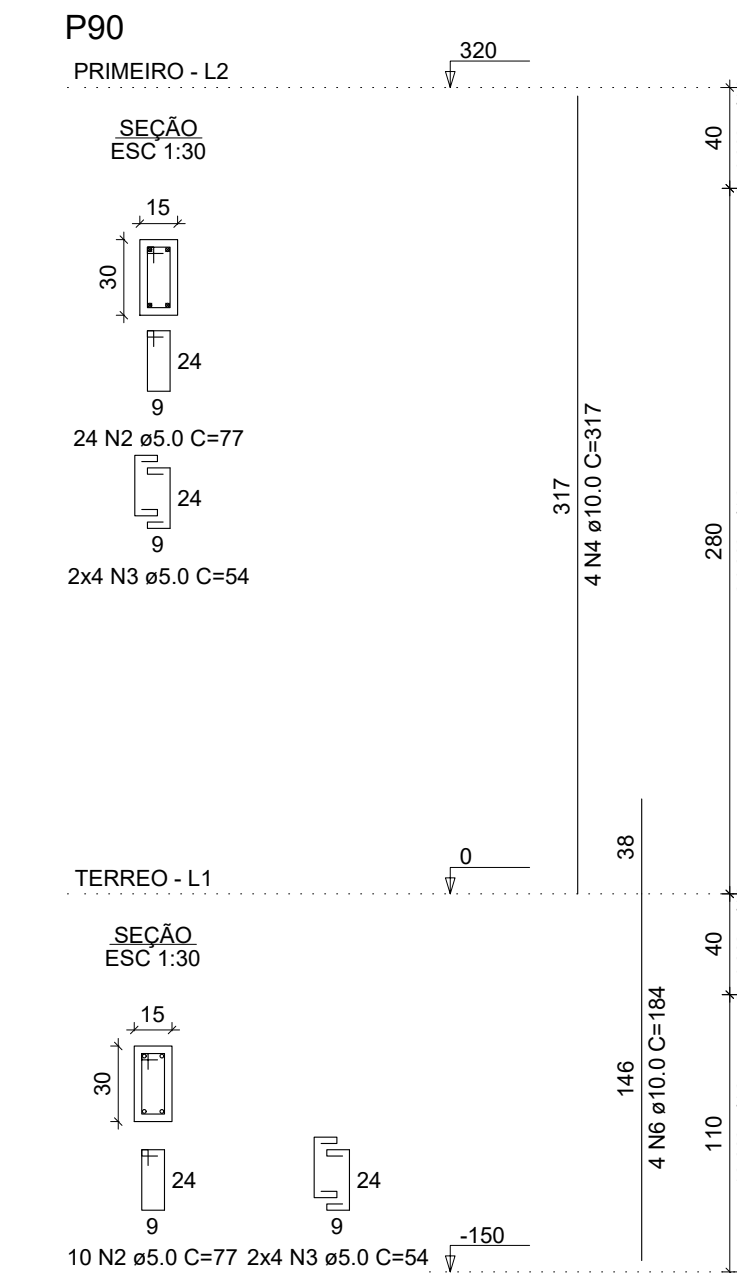
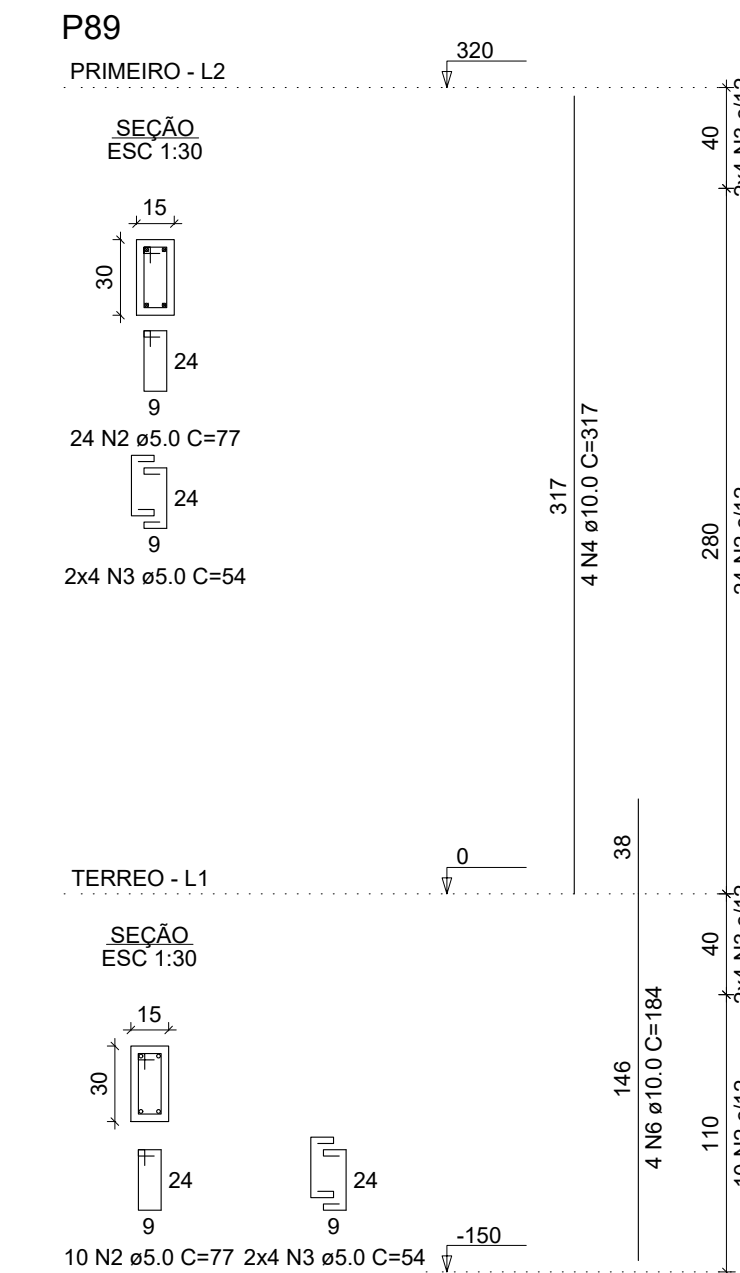
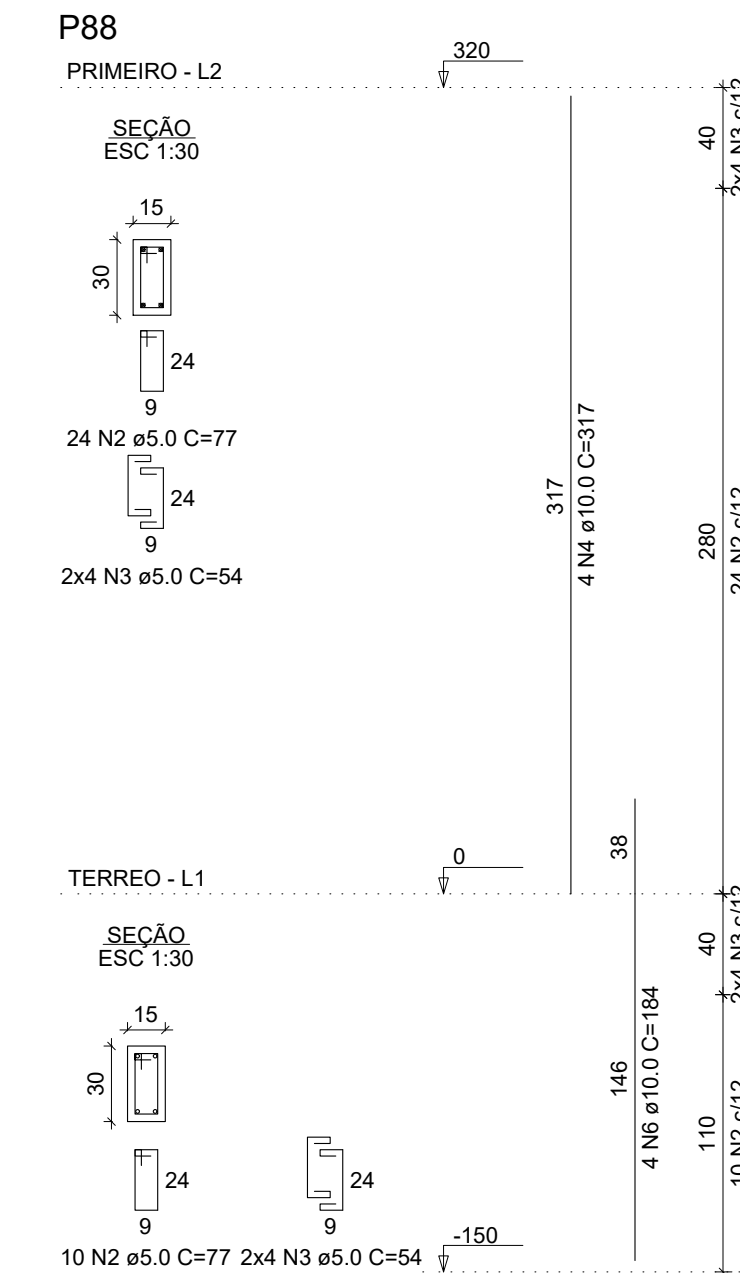
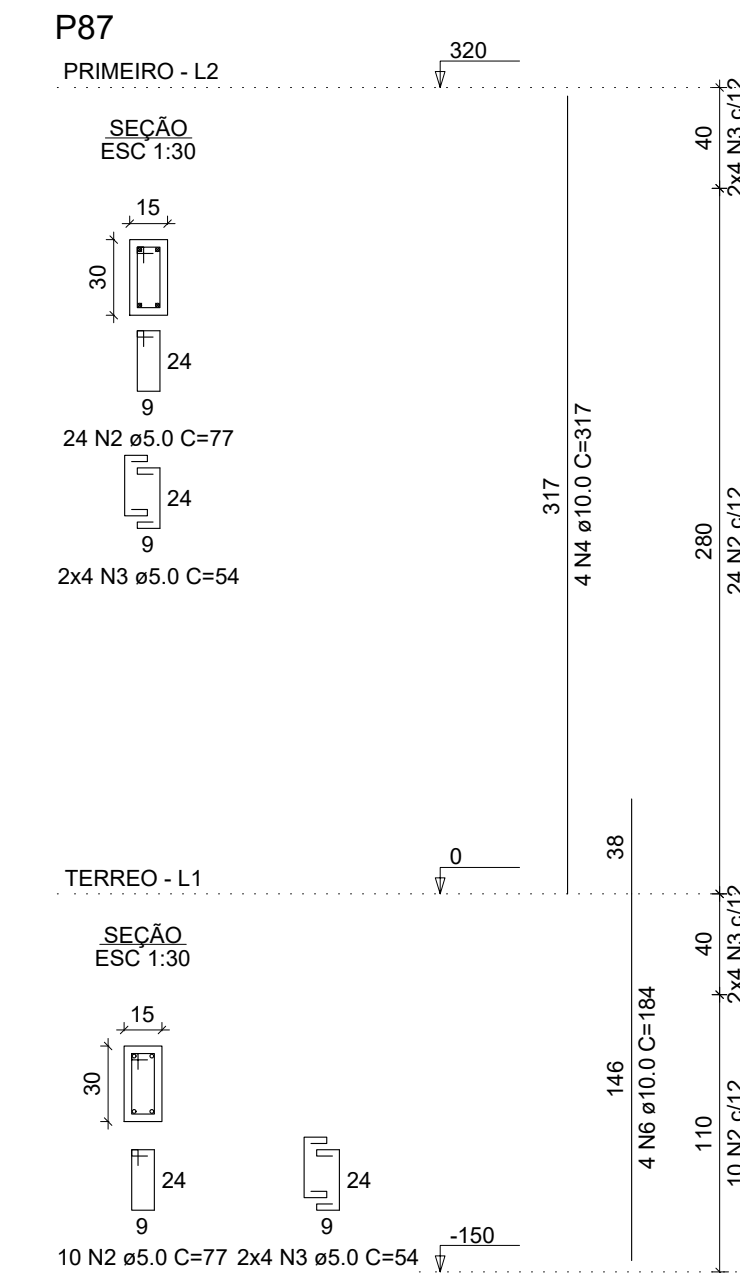
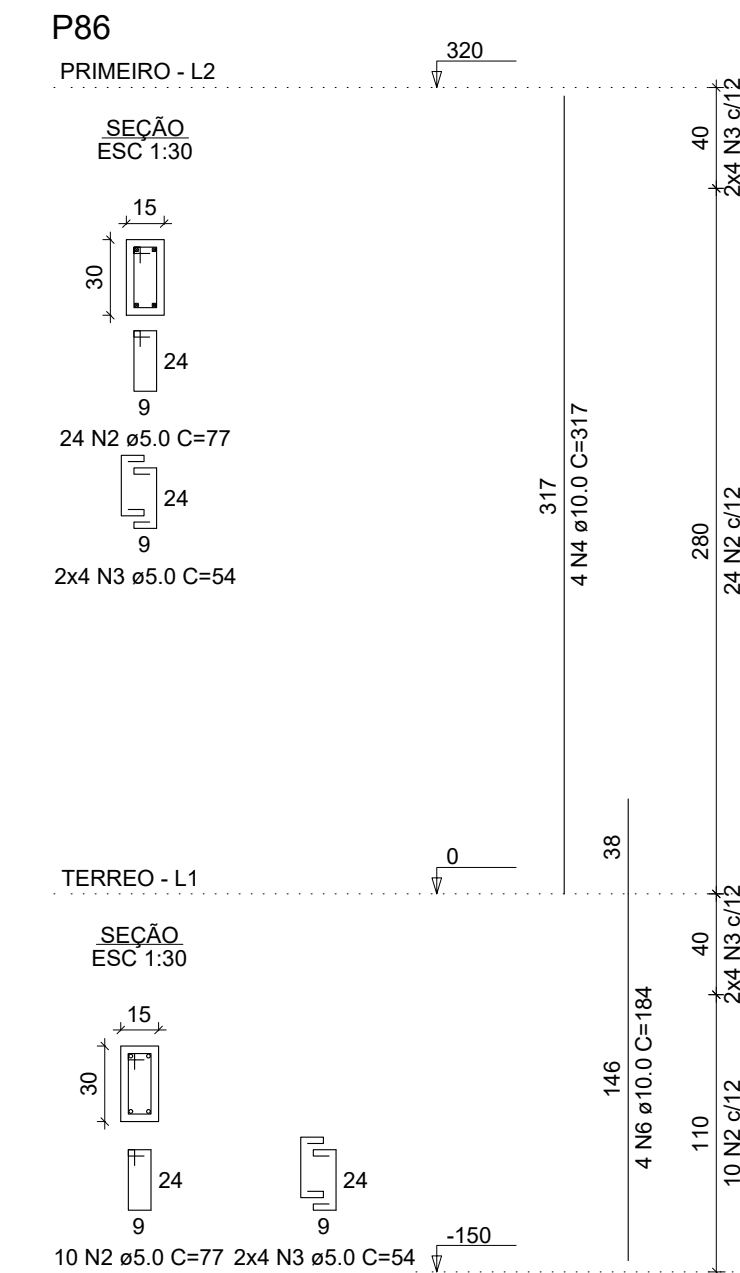
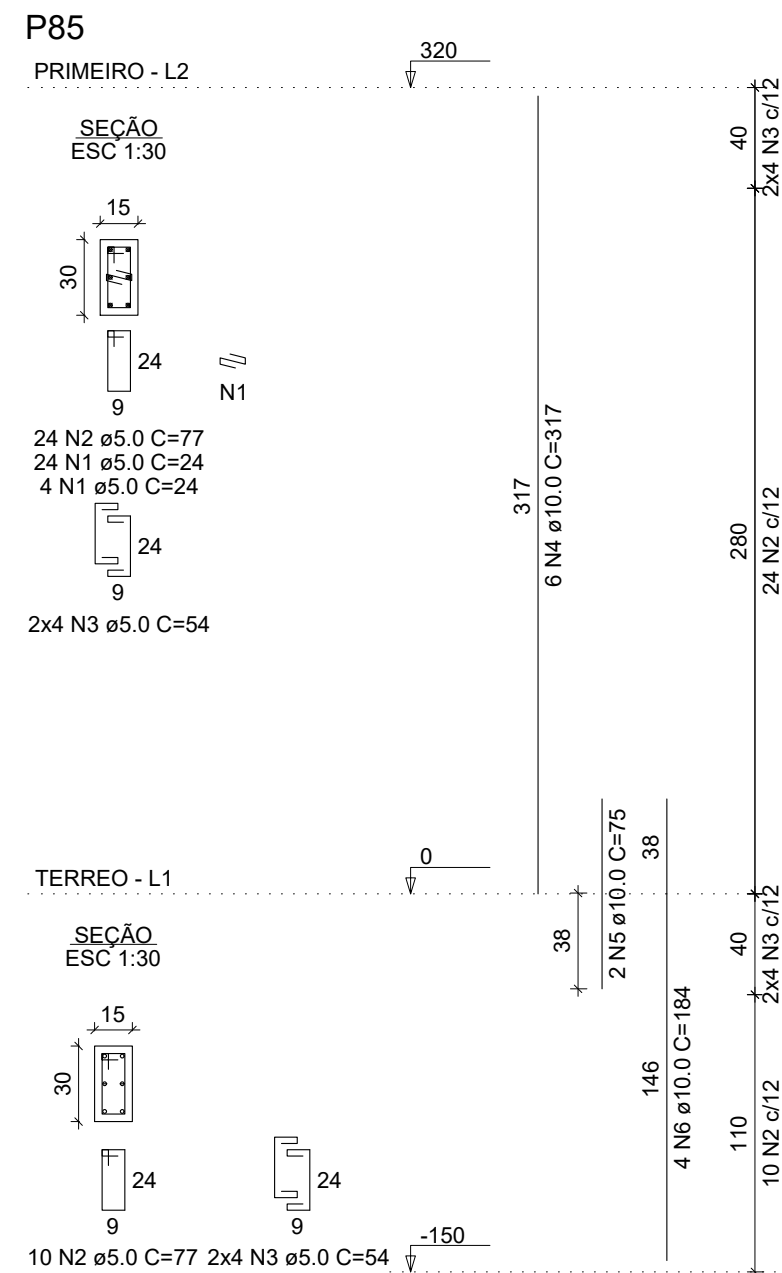
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P76-L2	1	5.0	306	77	23562
P77-L2	2	5.0	144	54	7776
P78-L2	3	5.0	42	24	1008
P79-L2	4	5.0	36	317	12046
P80-L2	5	10.0	2	142	284
P81-L2	6	10.0	36	184	6624
P82-L2	7	10.0	2	75	150

RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	91	117.8
CA60	5.0	323.5	49.9
PESO TOTAL (kg)			117.8
CA50			117.8
CA60			49.9

Volume de concreto (C-25) = 1.90 m³
Área de forma = 38.07 m²



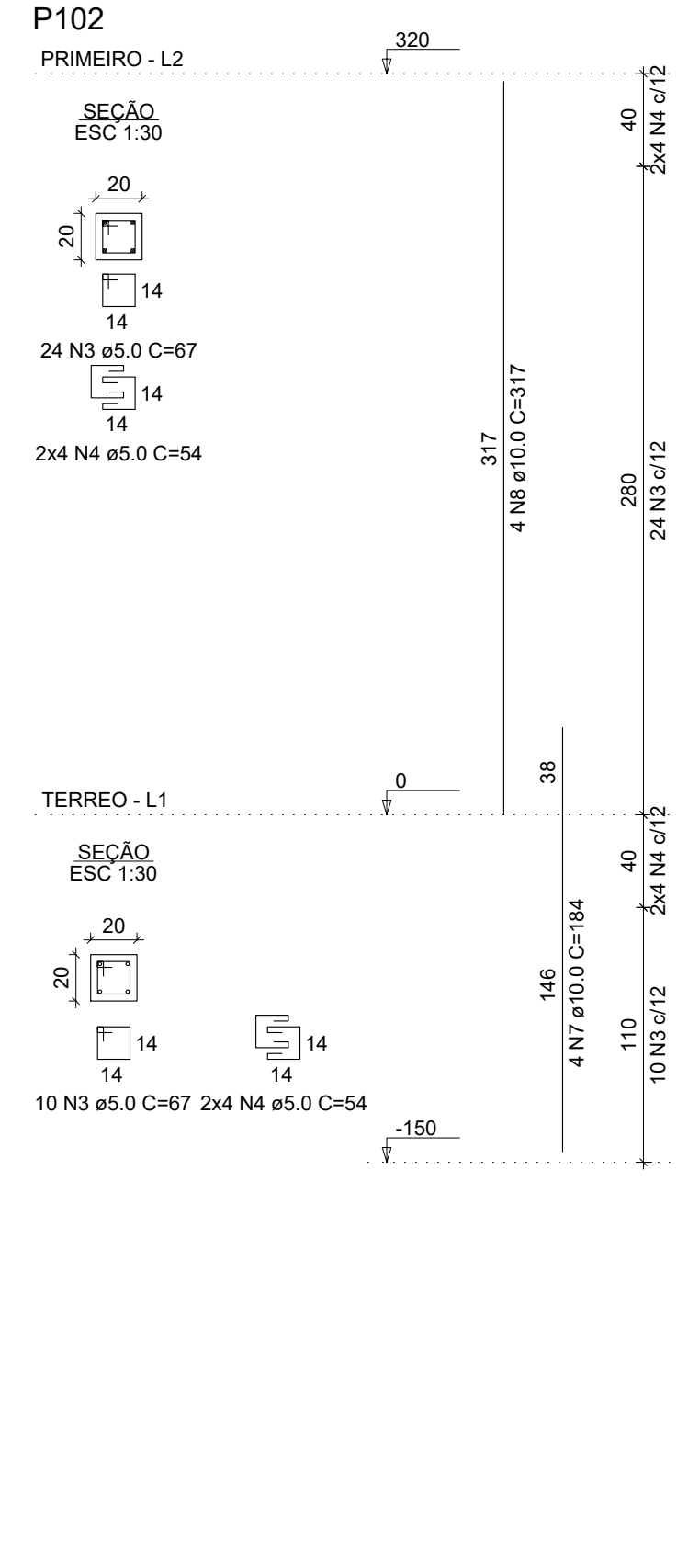
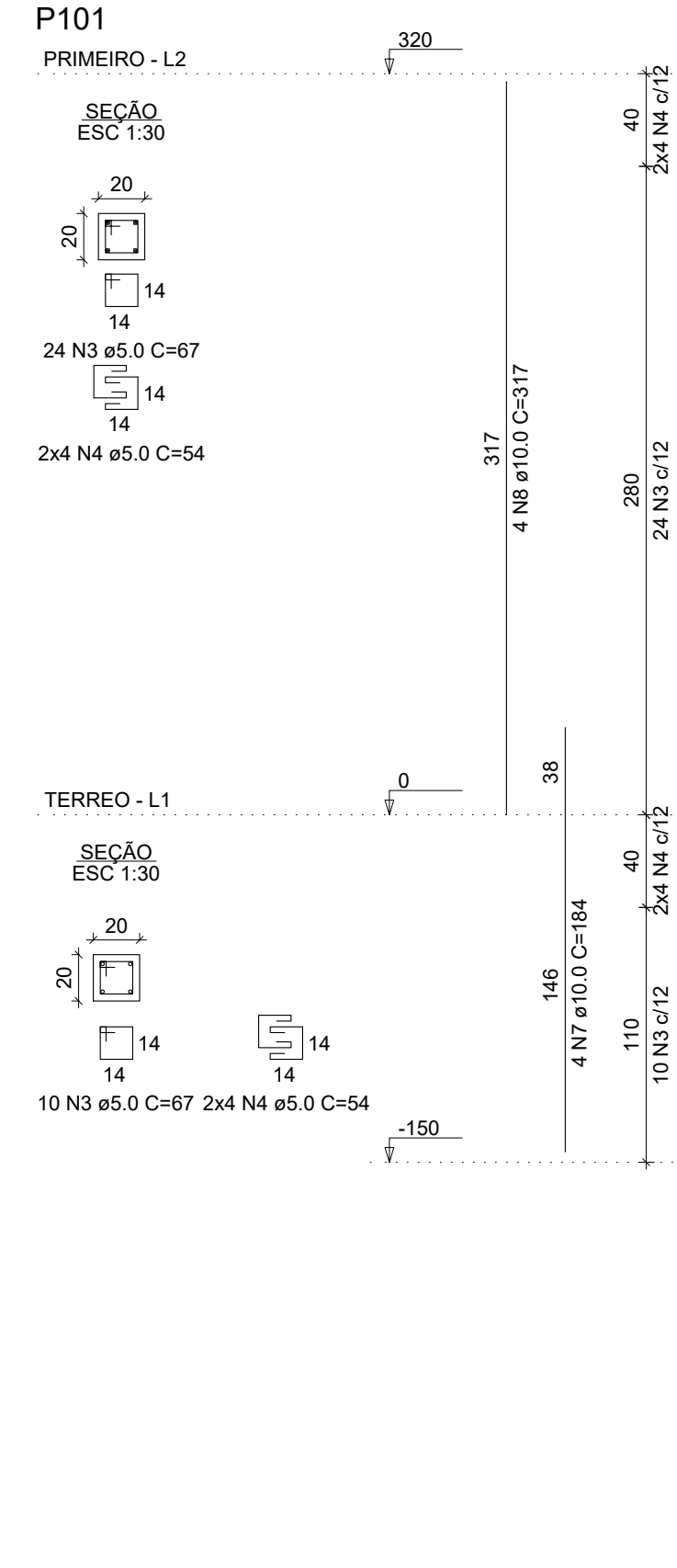
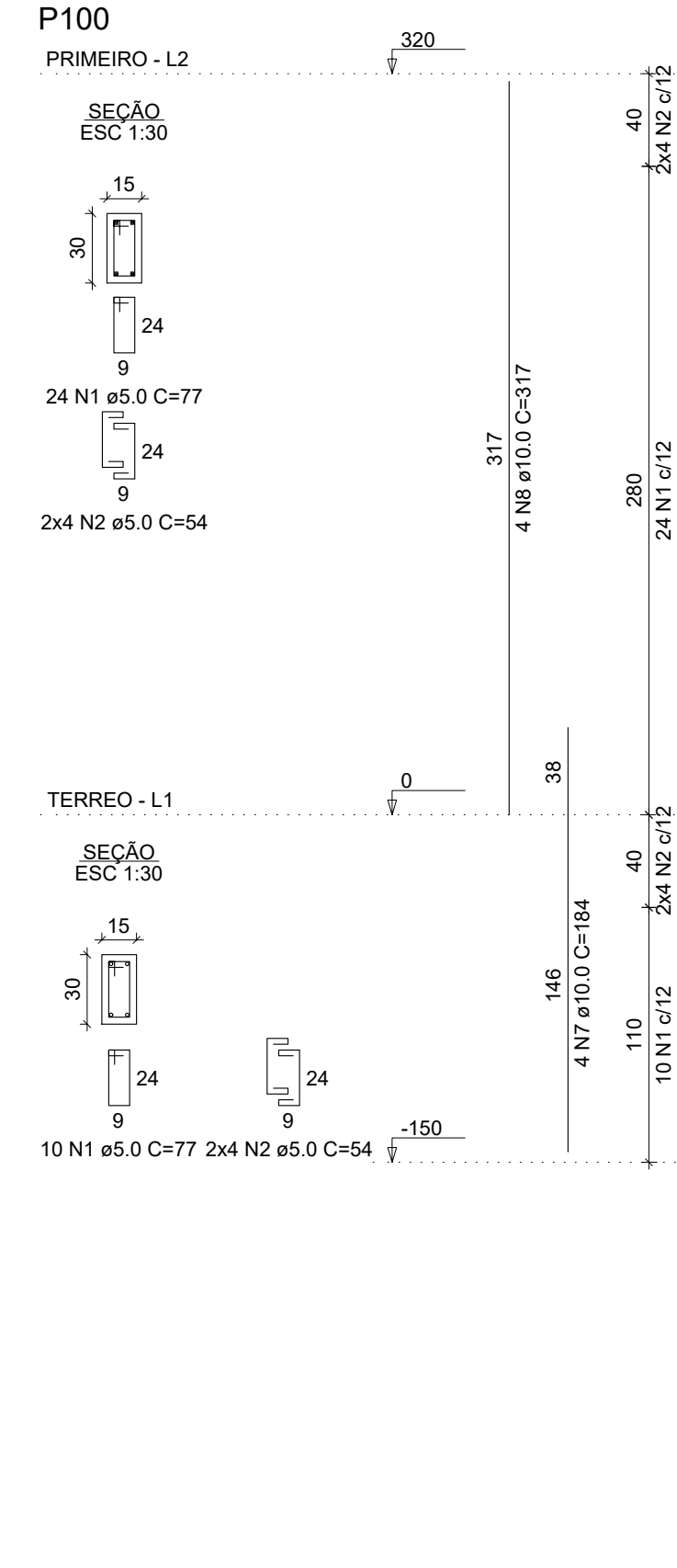
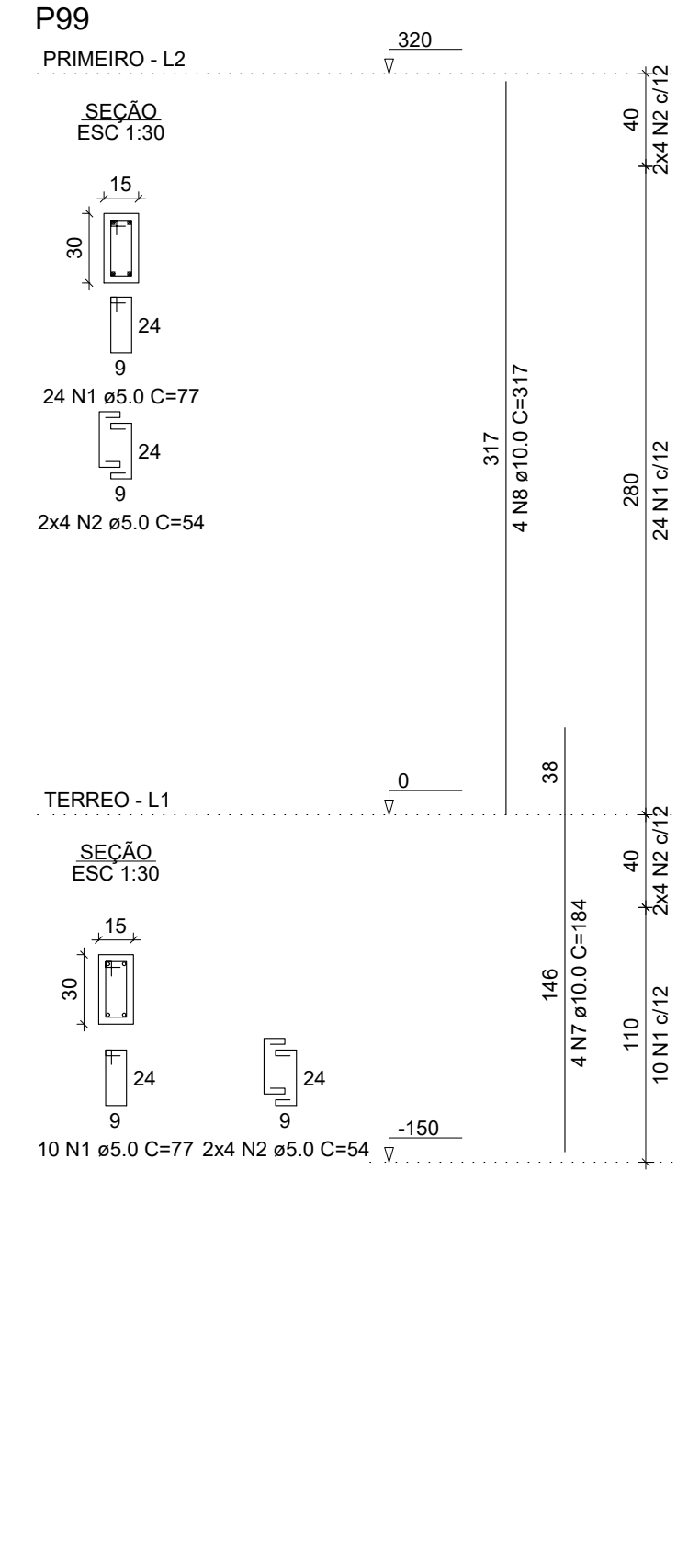
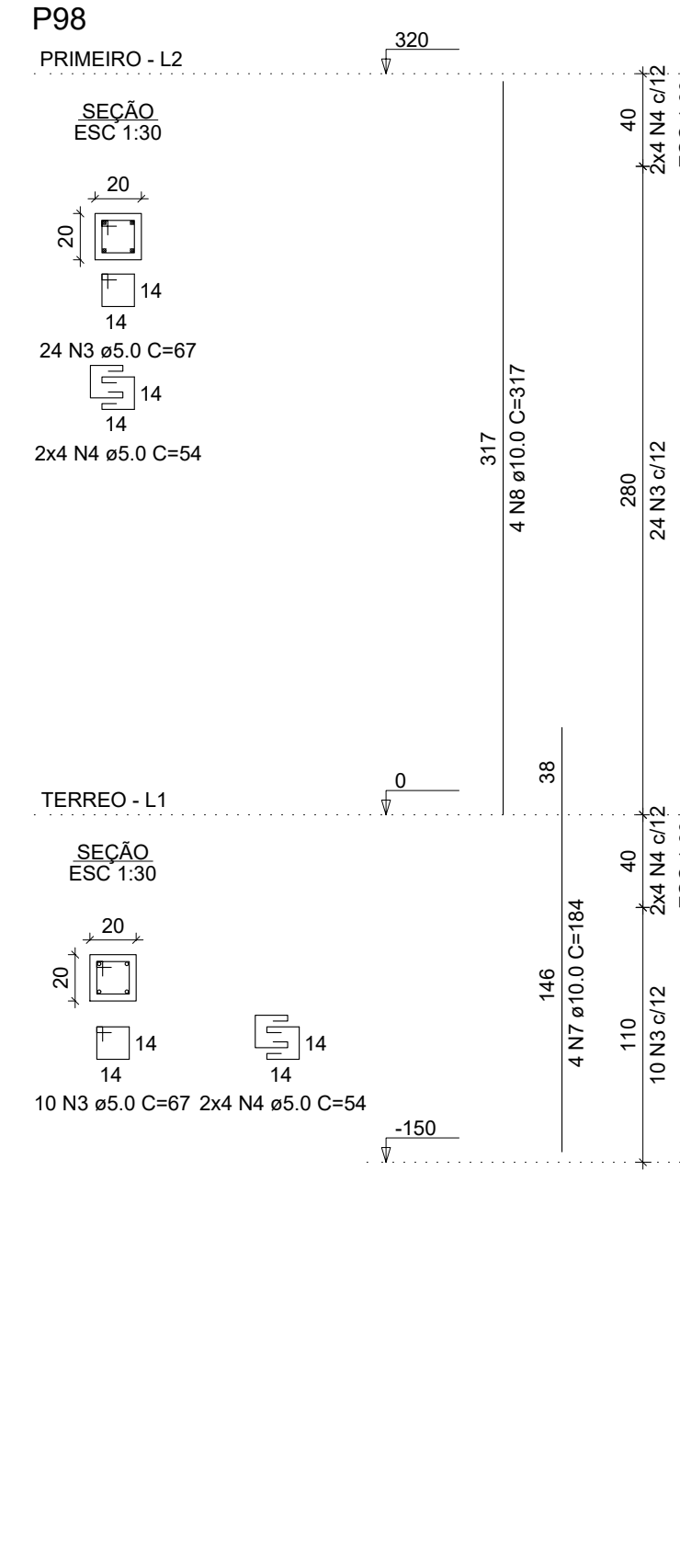
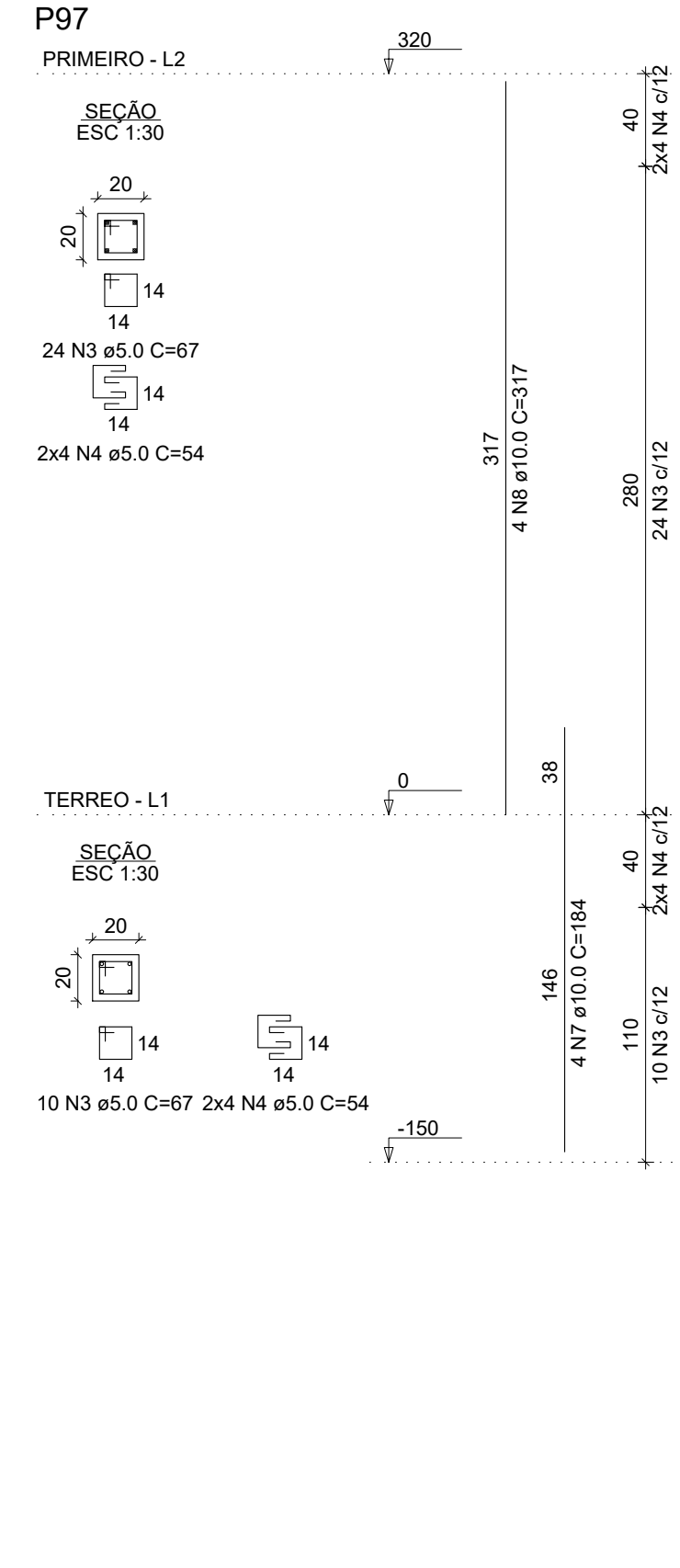
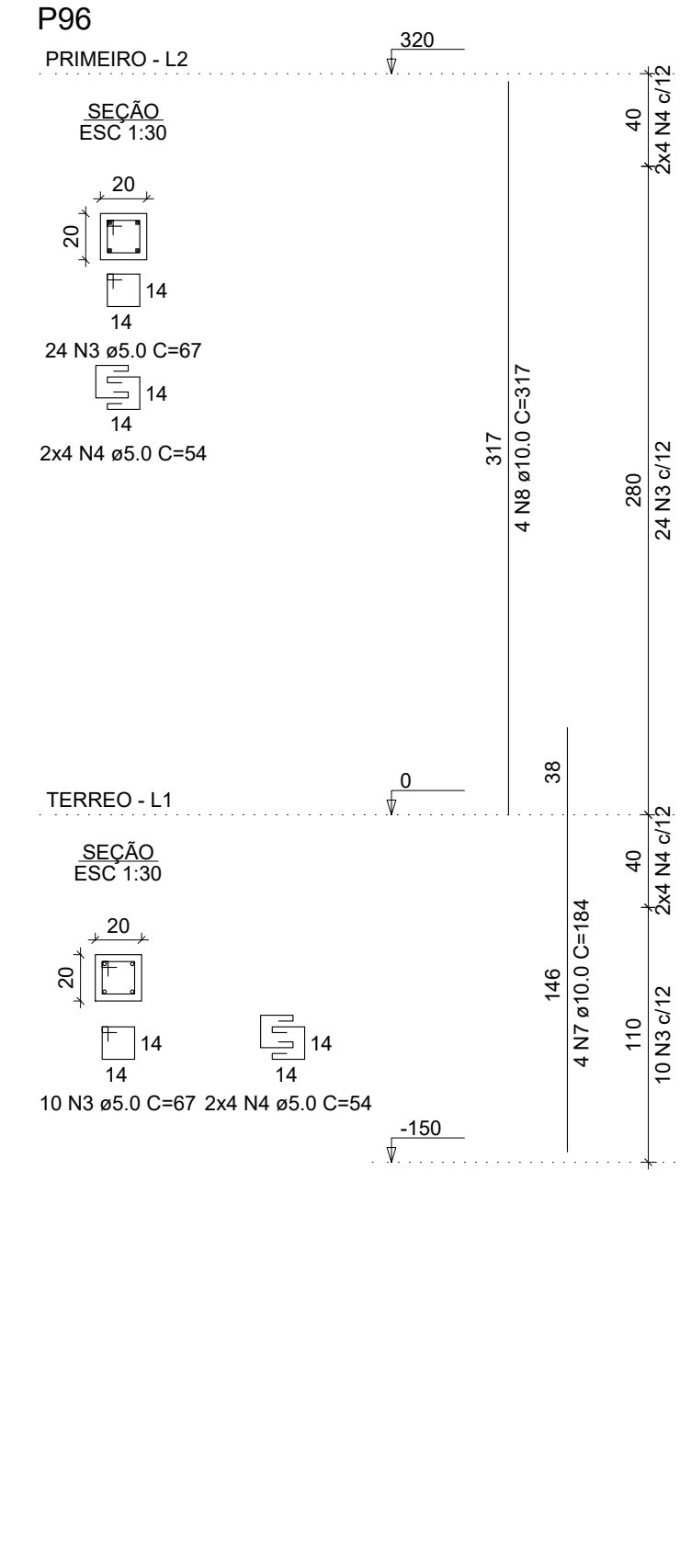
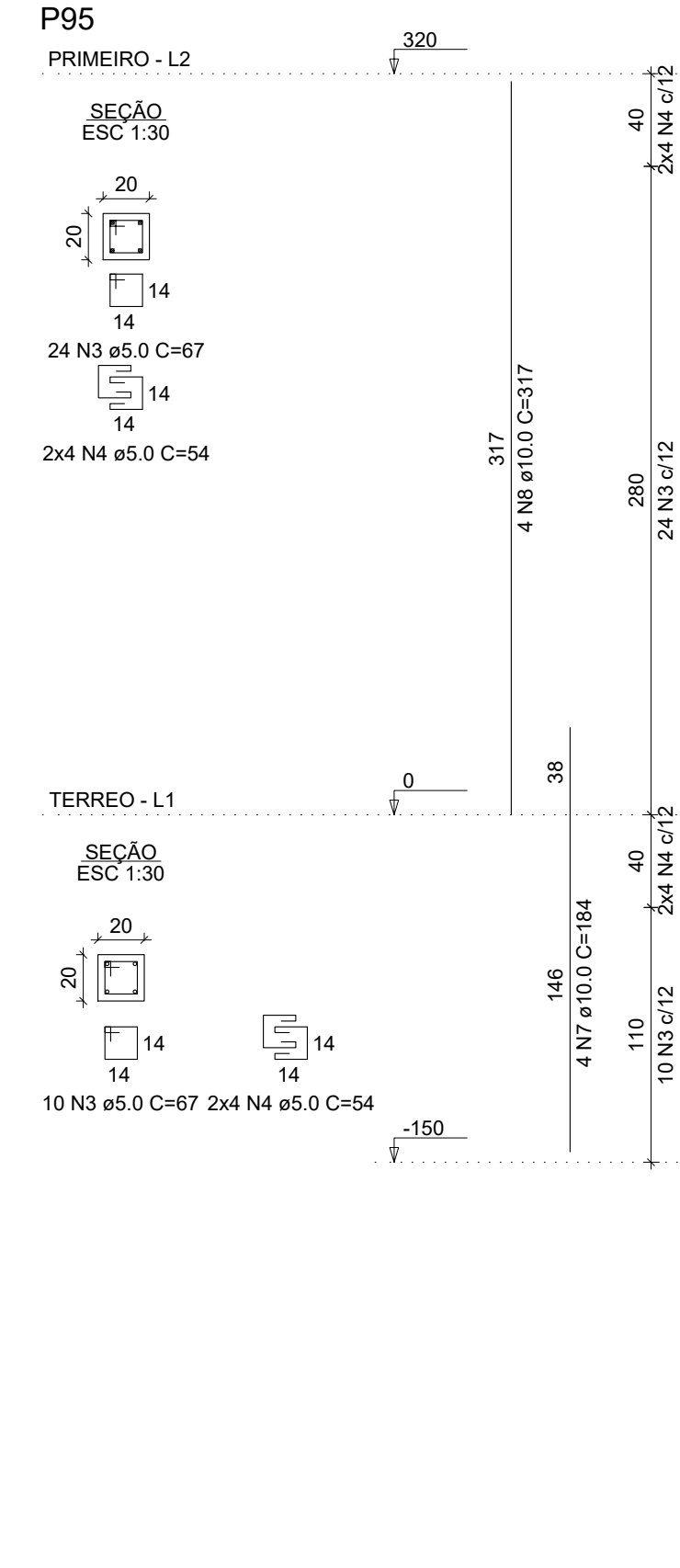
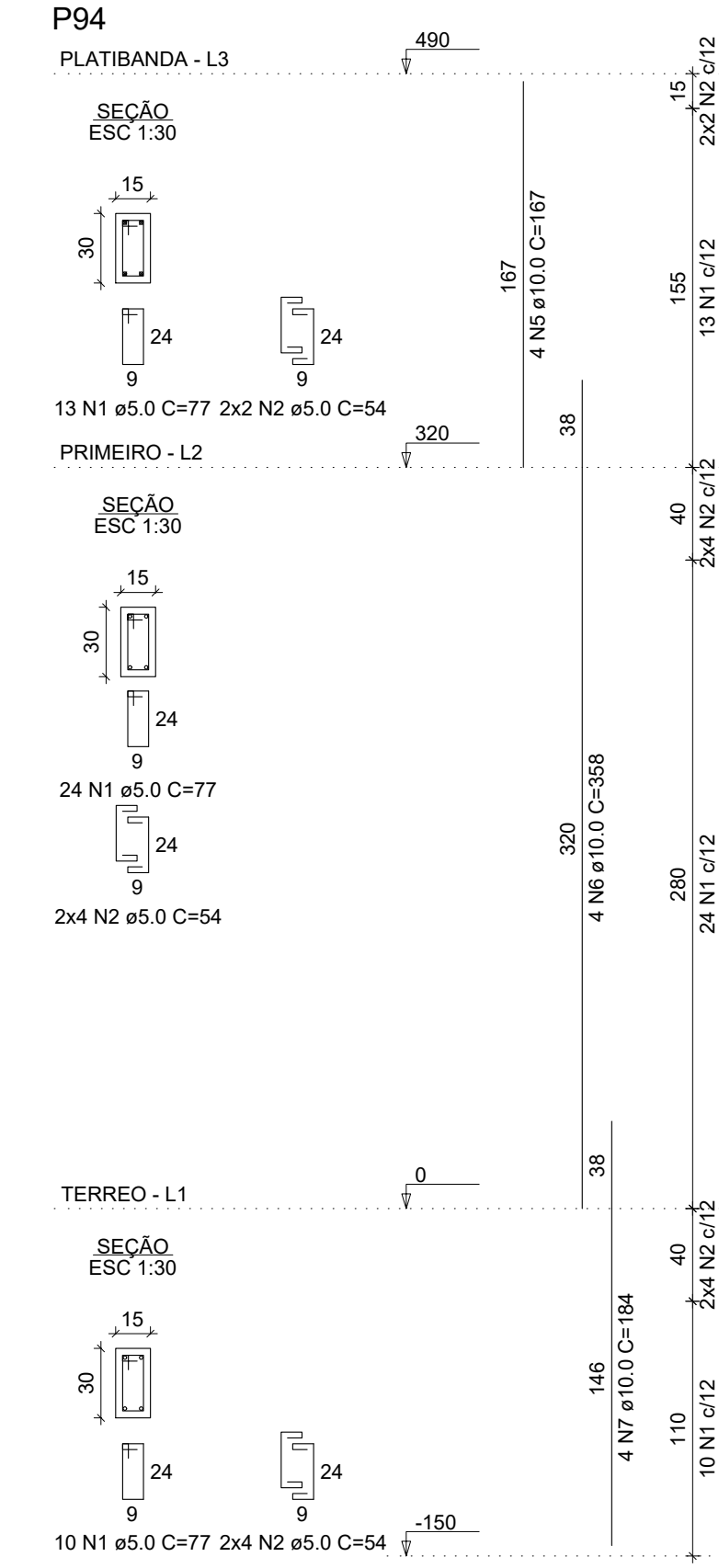
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P85-L2	1	5.0	42	24	1008
P86-L2	2	5.0	319	77	24563
P87-L2	3	5.0	148	54	7992
P88-L2	4	10.0	34	317	10778
P89-L2	5	10.0	36	75	270
P90-L2	6	10.0	36	184	6624
P91-L2	7	10.0	2	142	284
P92-L2	8	10.0	4	167	668
P93-L2	9	10.0	4	308	1432

RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	186.4	122.9
CA60	5.0	335.6	51.7
PESO TOTAL (kg)			122.9
CA50			122.9
CA60			51.7

Volume de concreto (C-25) = 1.98 m³
Área de forma = 39.60 m²



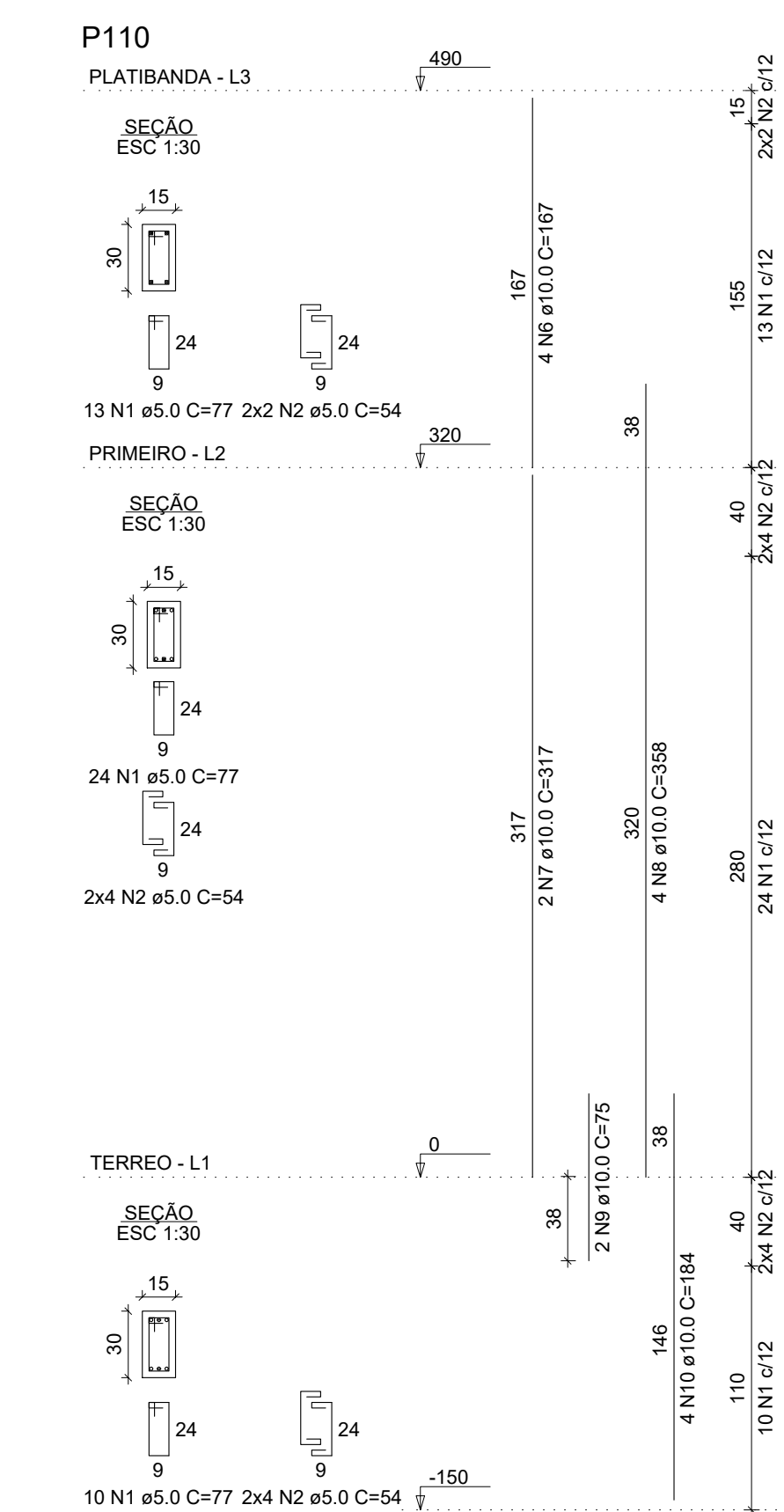
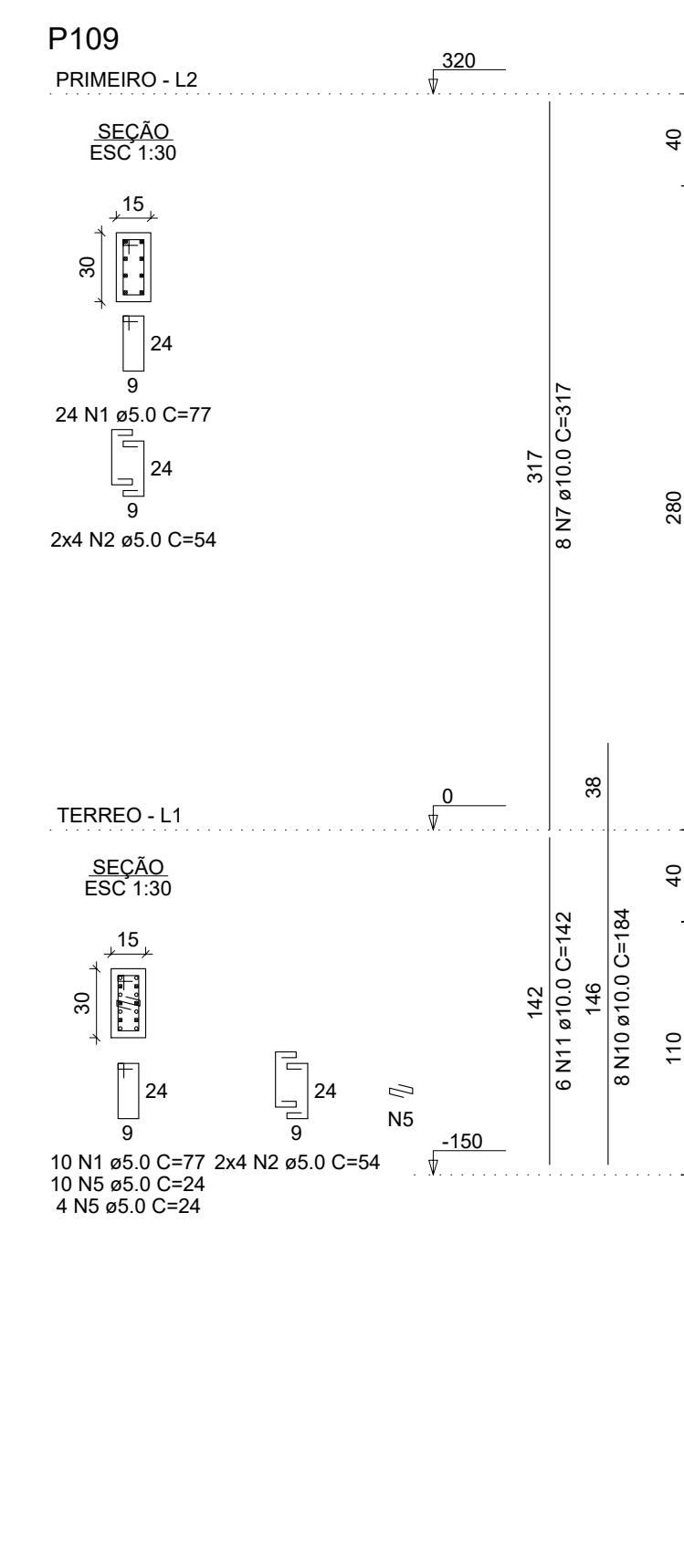
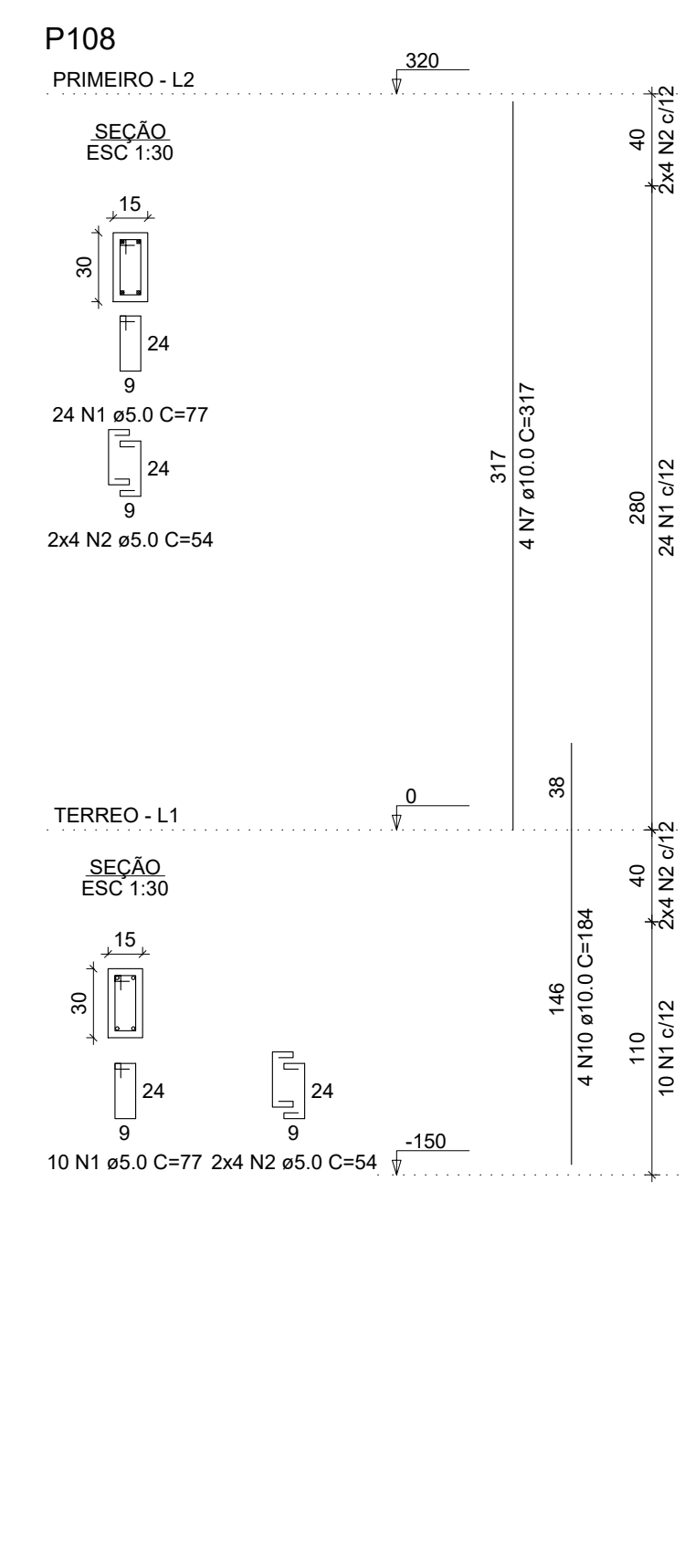
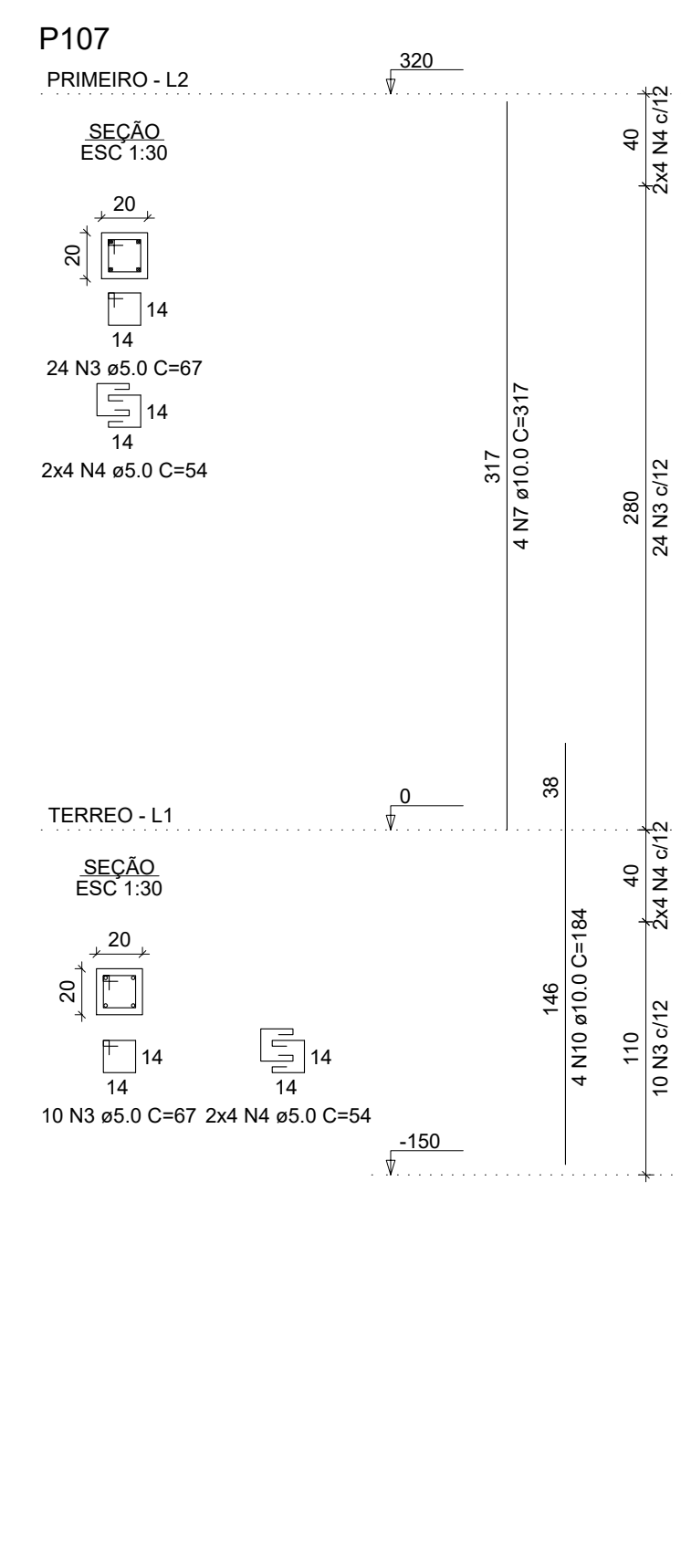
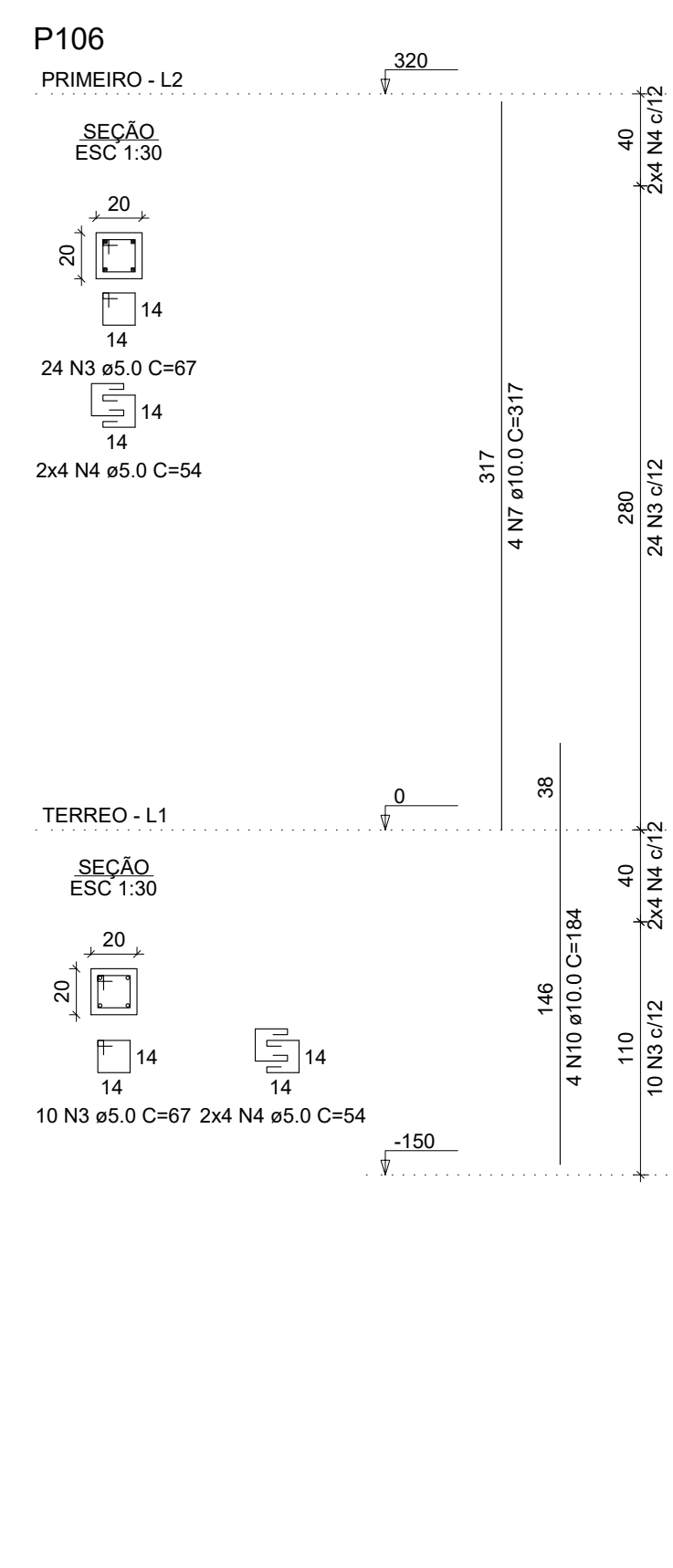
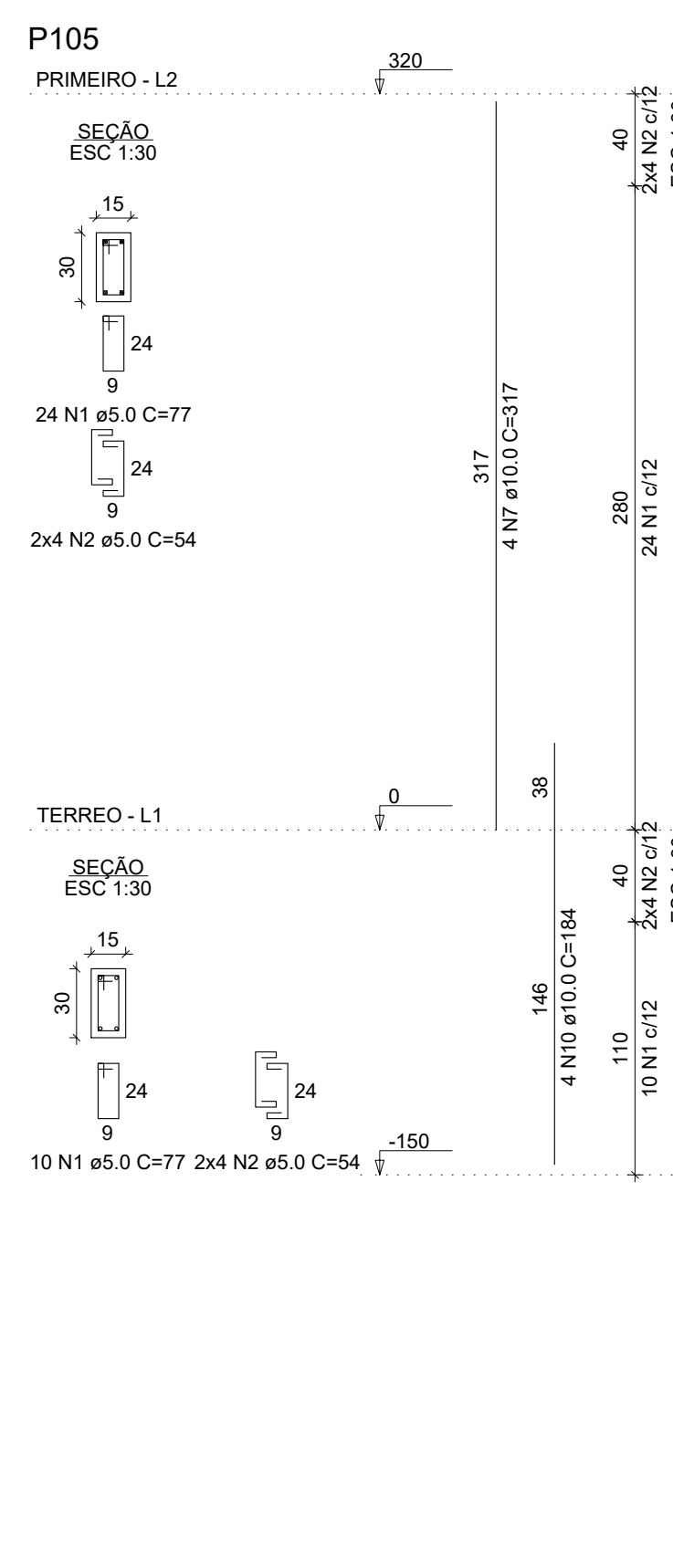
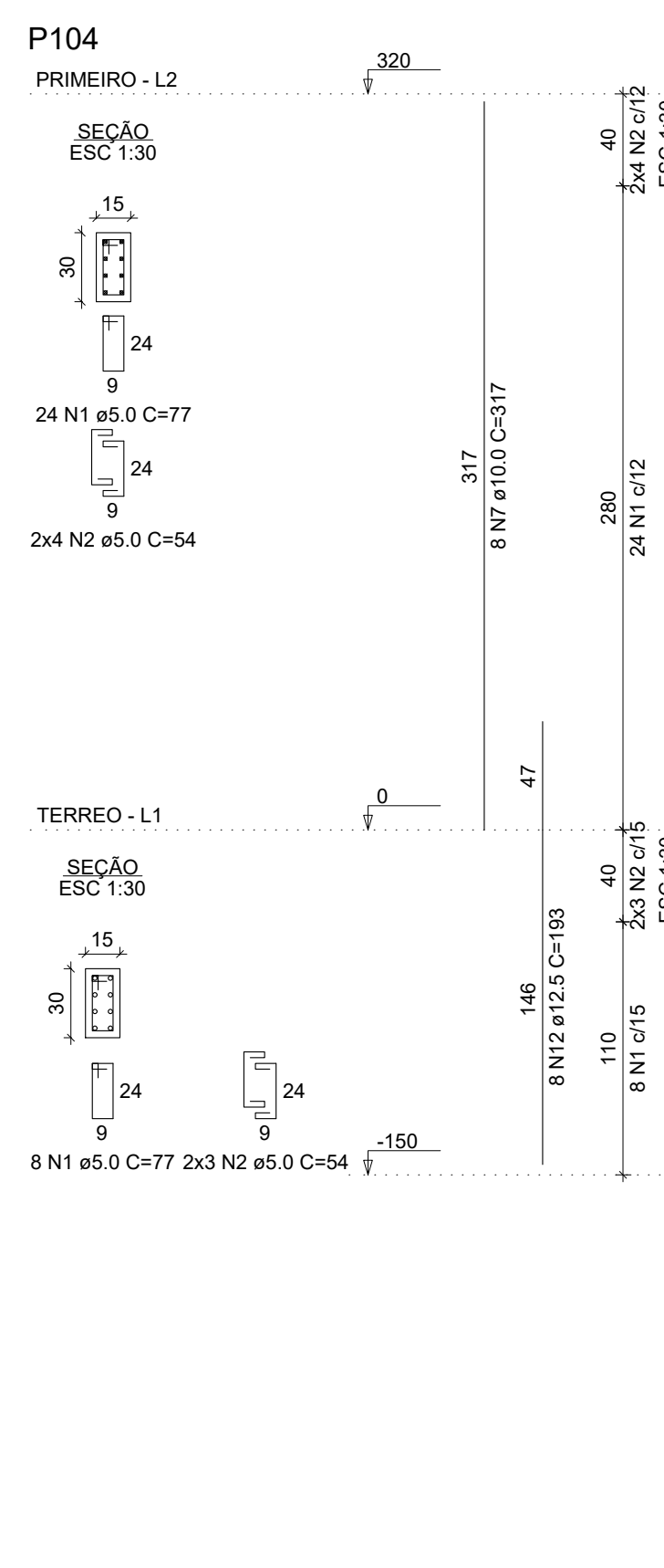
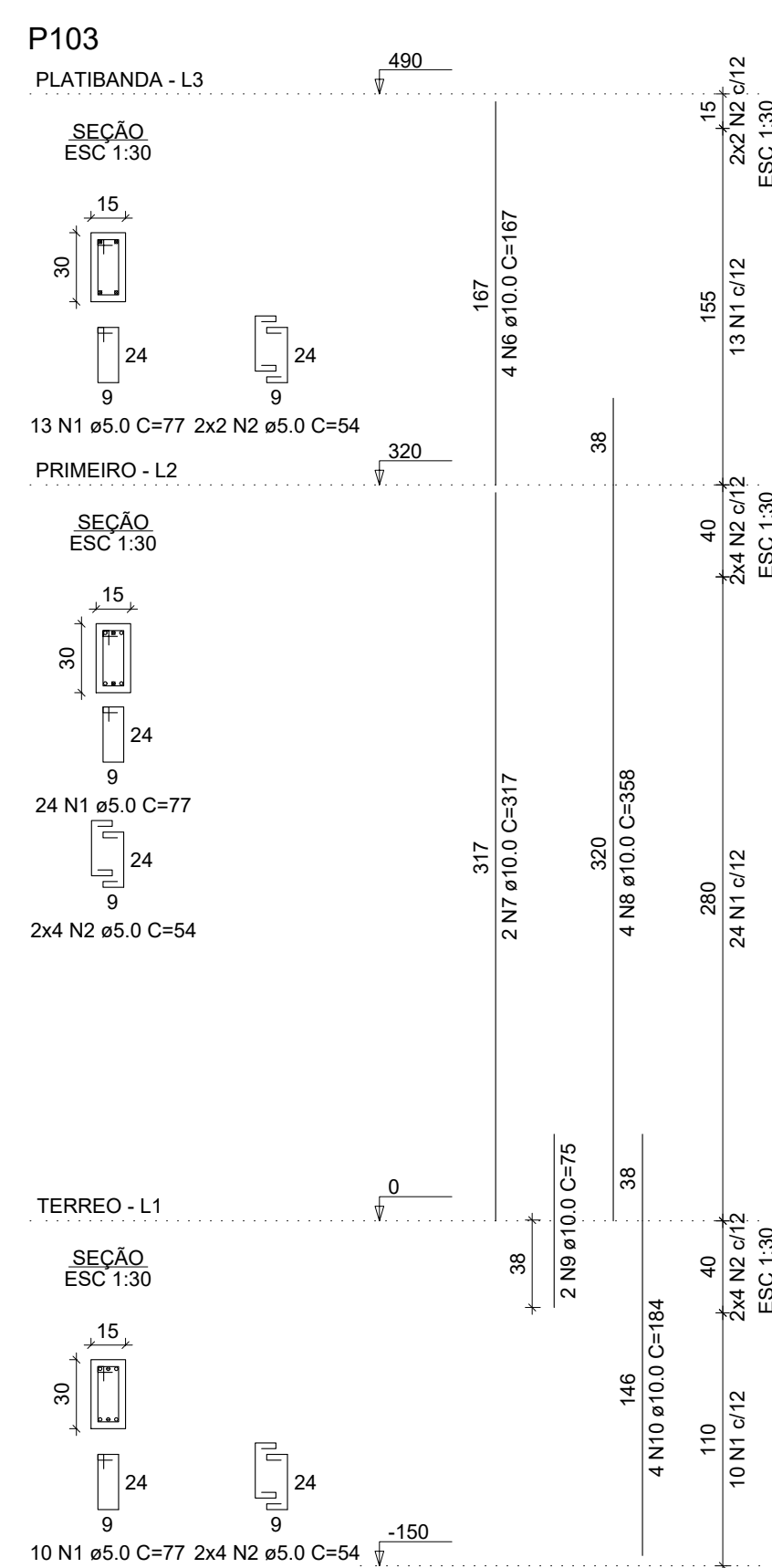
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P94-L2	1	5.0	115	77	8855
P95-L2	2	5.0	52	54	2808
P96-L2	3	5.0	204	67	13668
P97-L2	4	5.0	96	54	5184
P98-L2	5	10.0	4	167	668
P99-L2	6	10.0	4	388	1432
P100-L2	7	10.0	36	184	6624
P101-L2	8	10.0	32	317	10144
P102-L2	9	10.0	32	317	10144

RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	188.7	116.3
CA60	5.0	305.2	47
PESO TOTAL (kg)			116.3
CA50			116.3
CA60			47

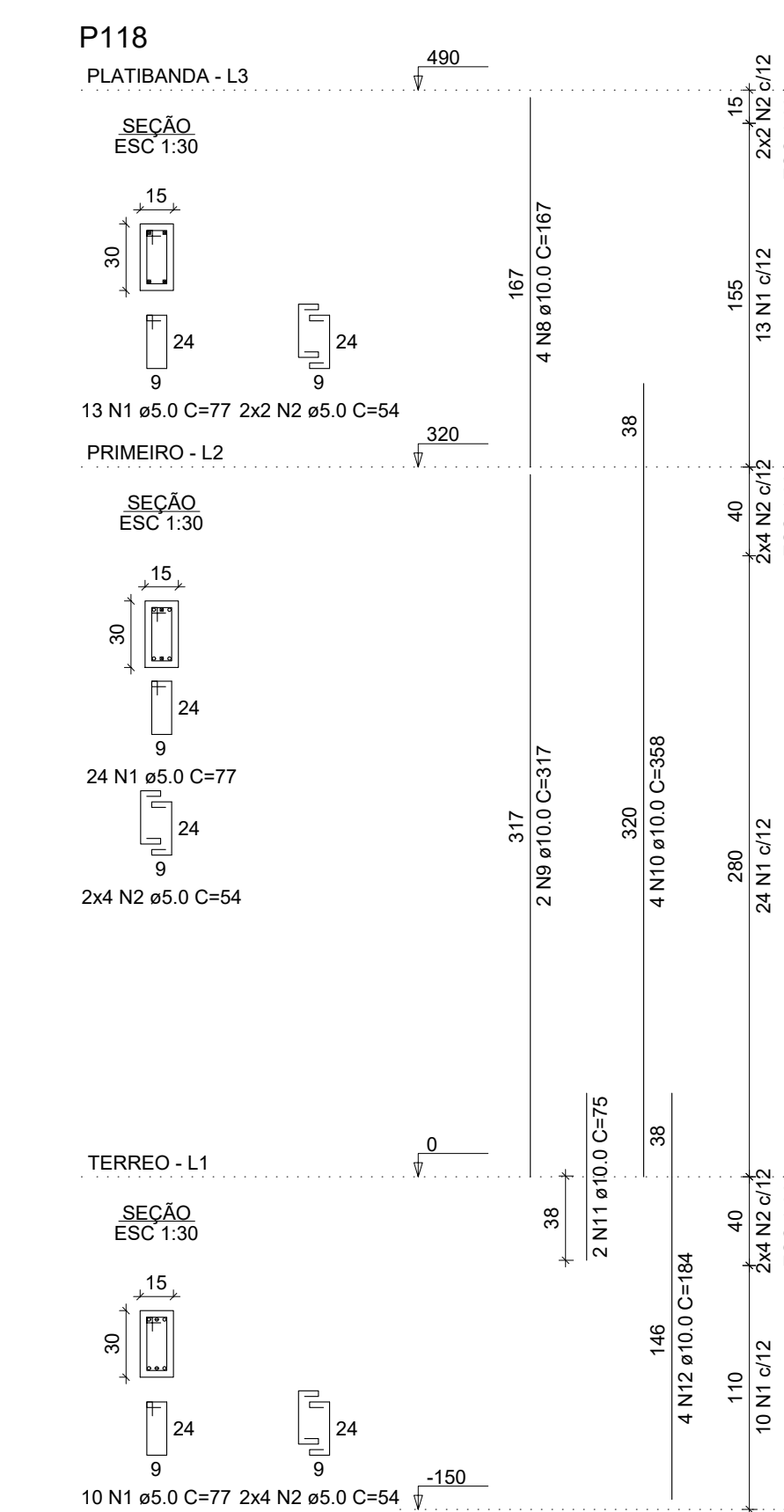
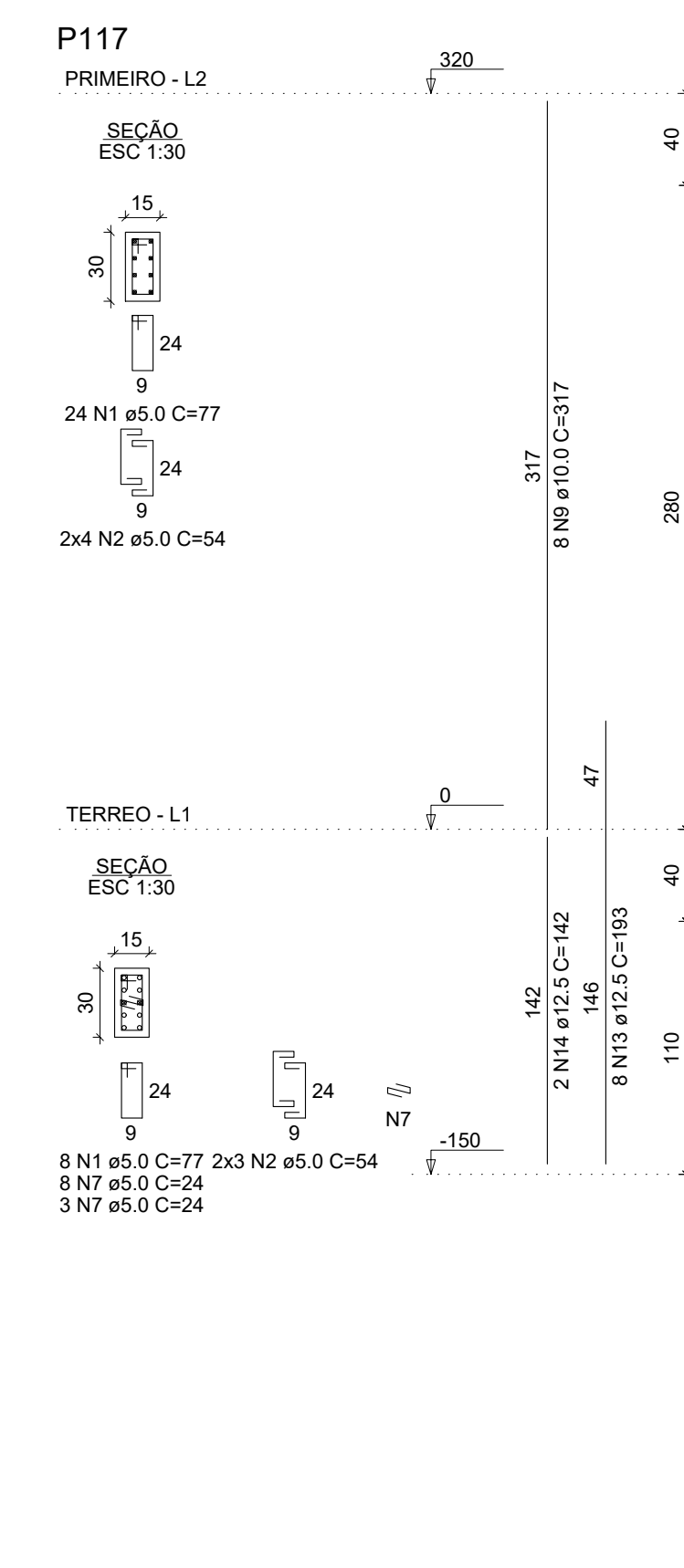
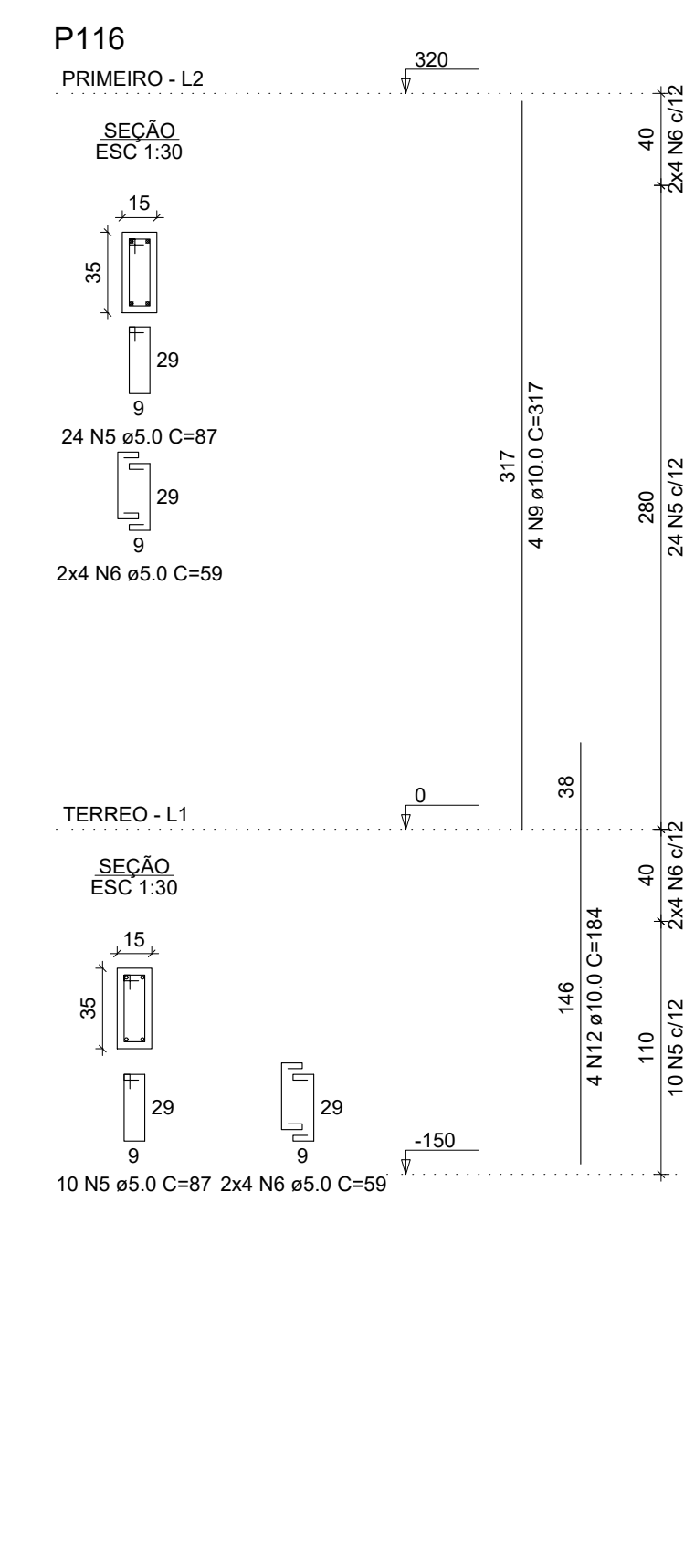
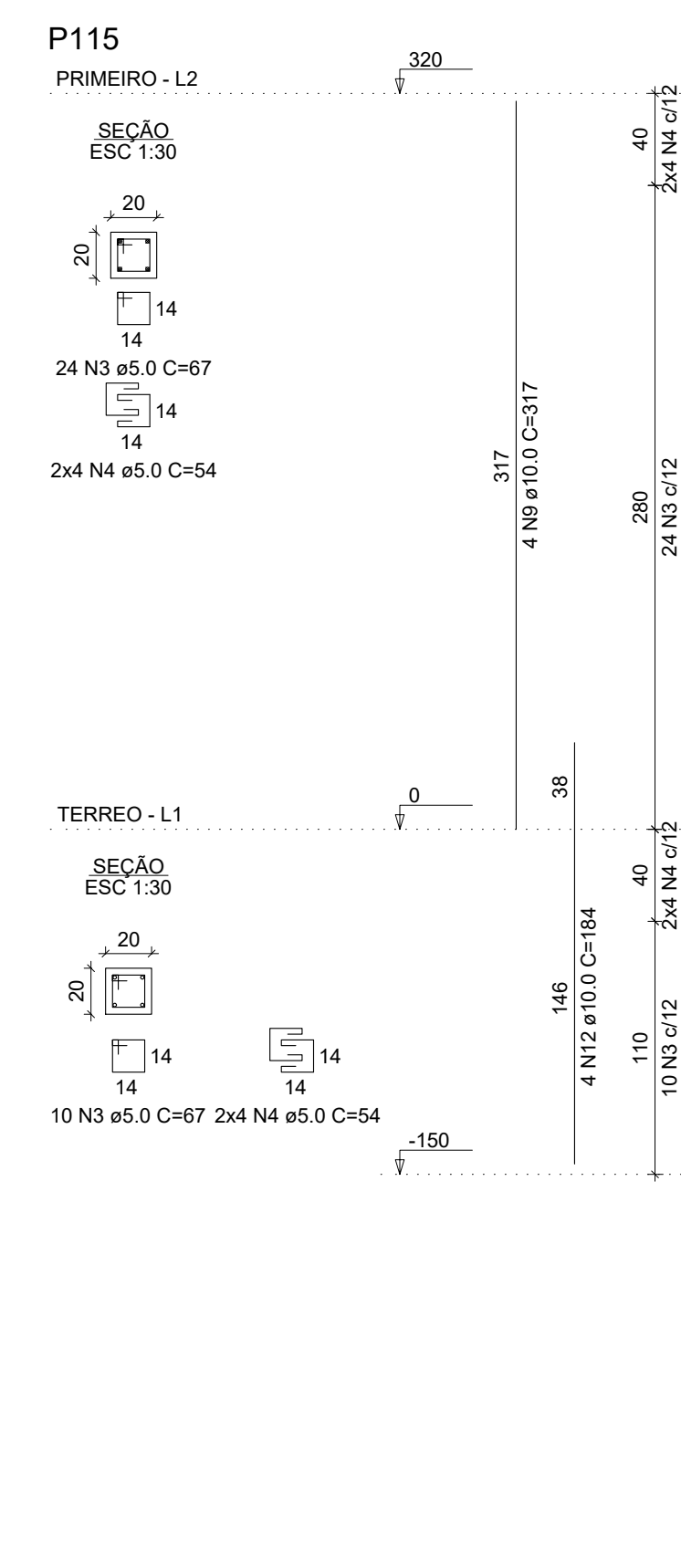
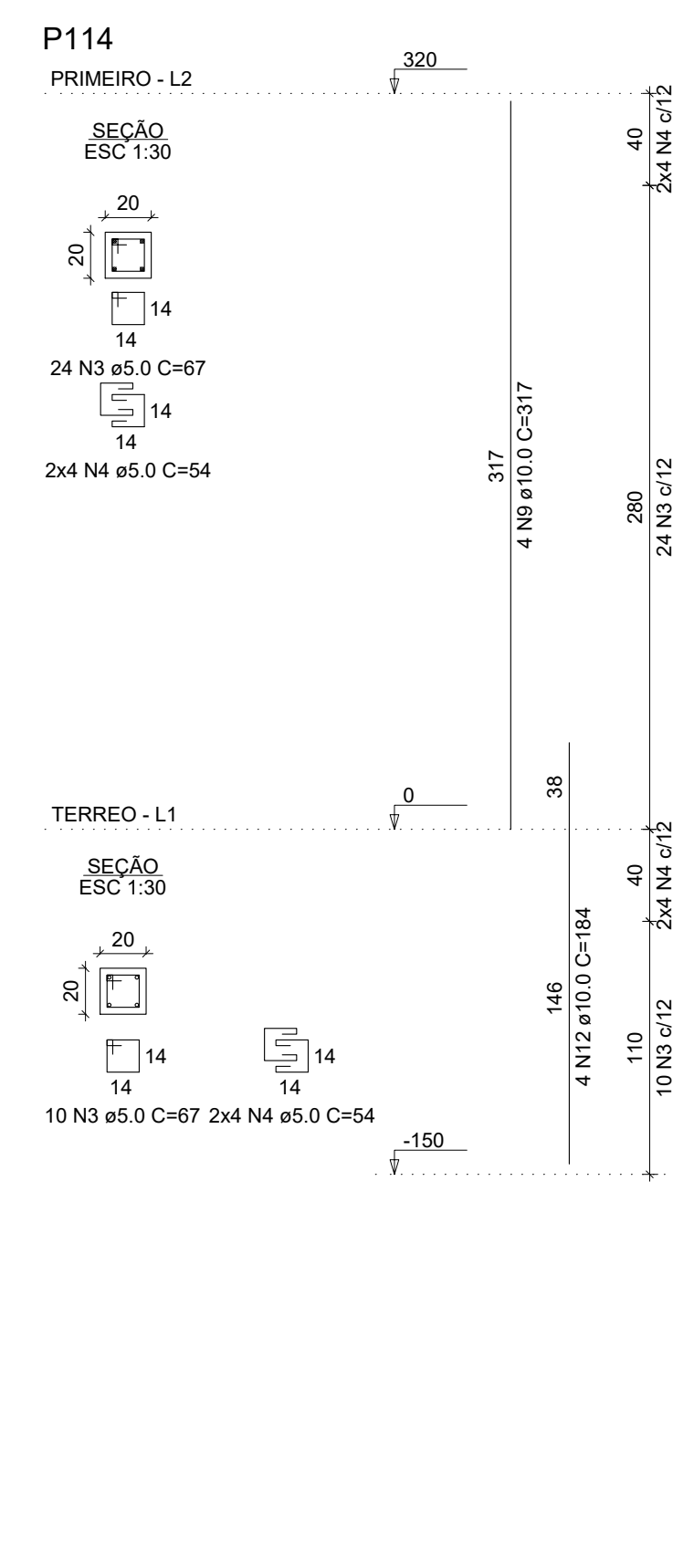
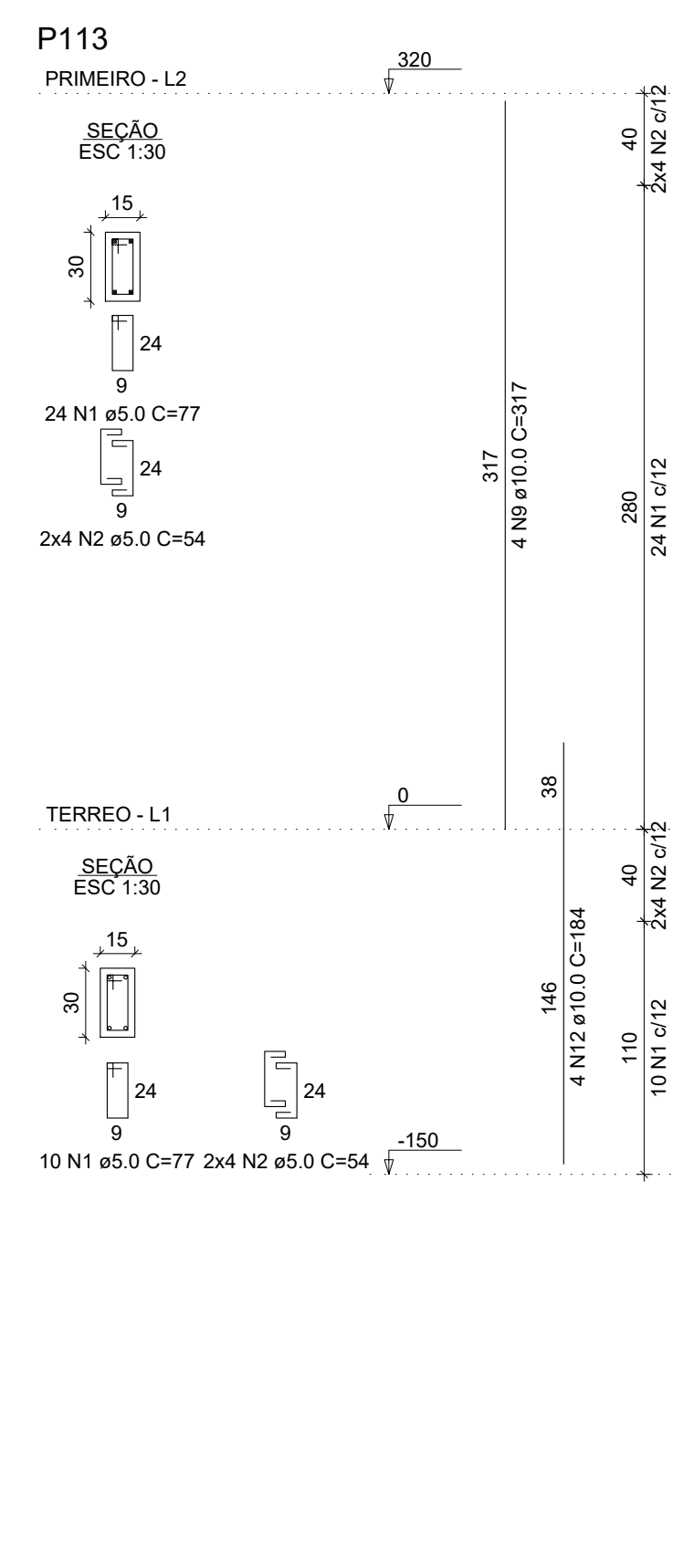
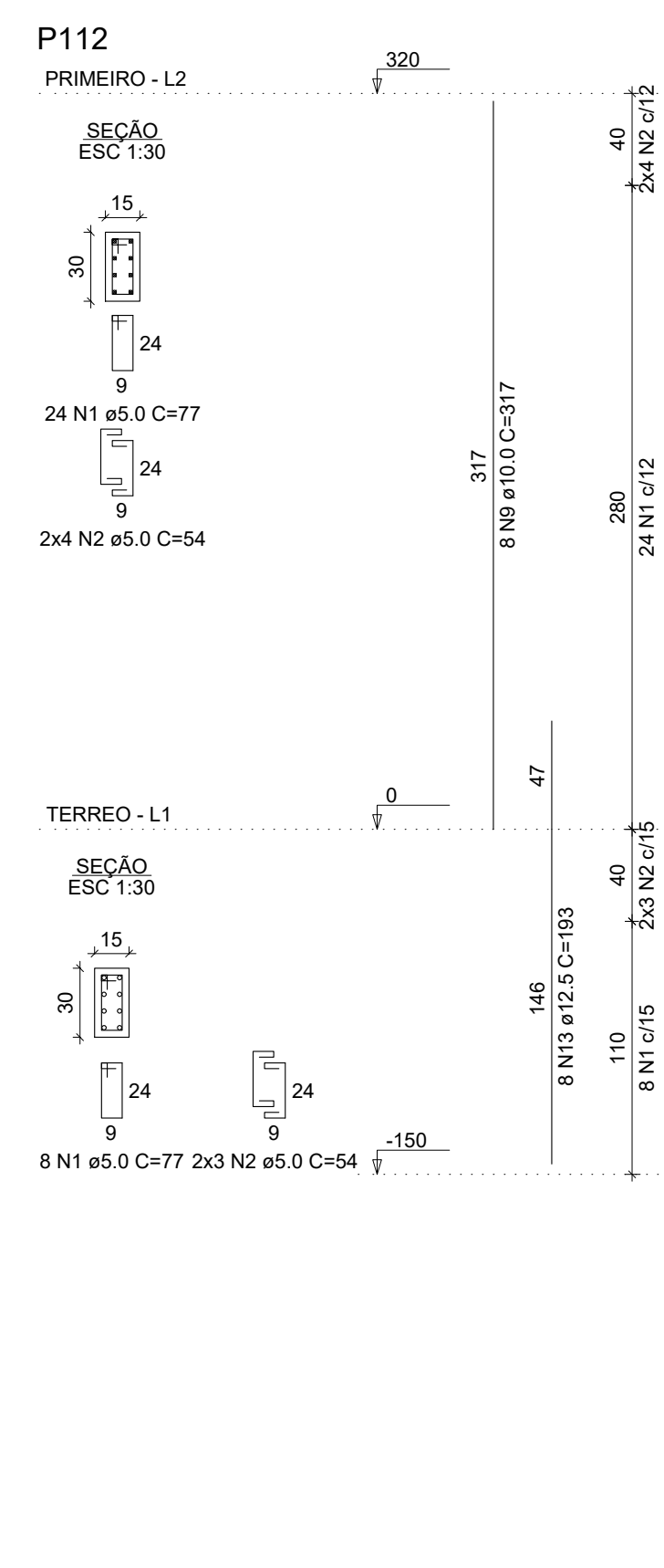
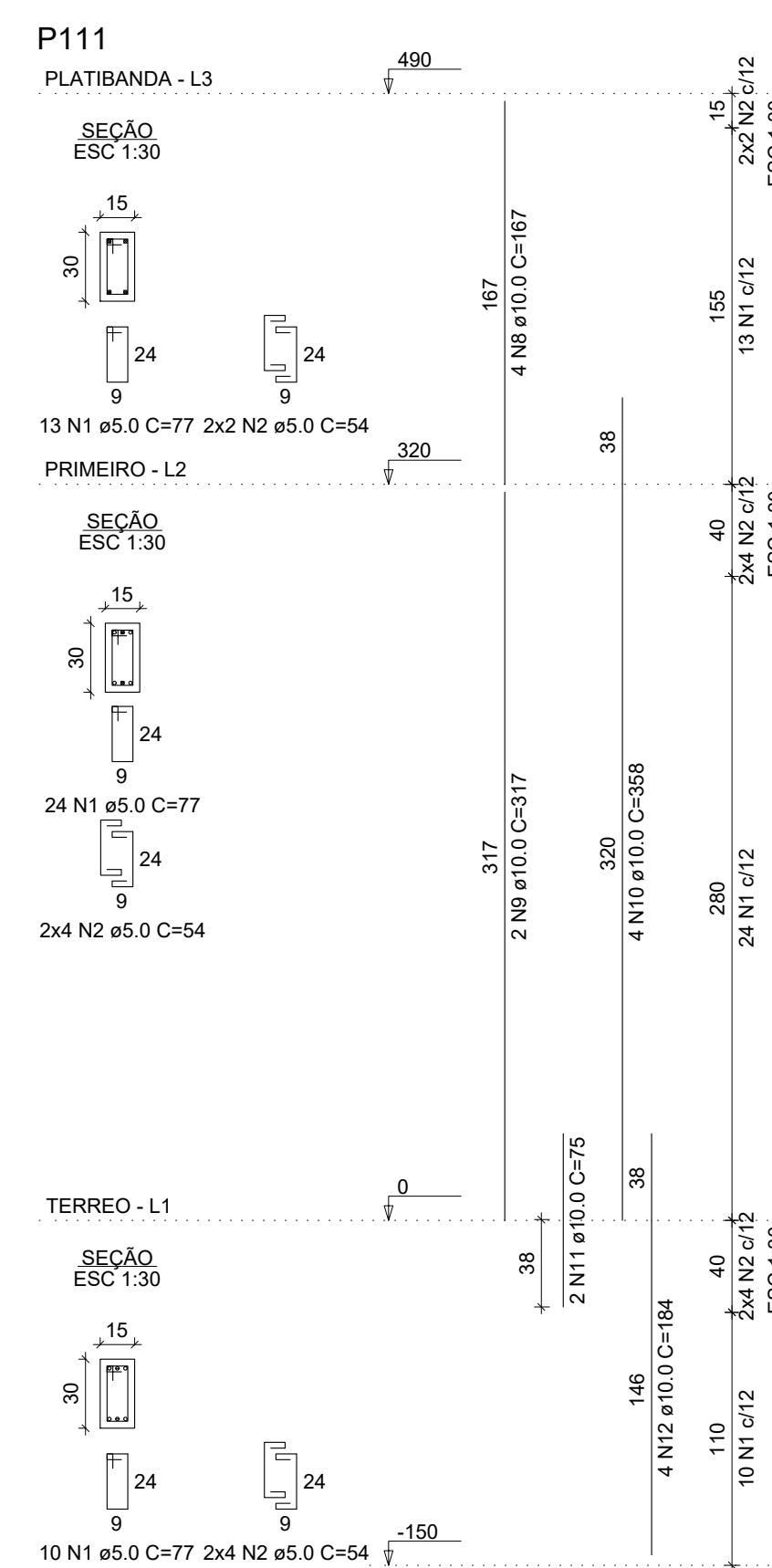
Volume de concreto (C-25) = 1.84 m³
Área de forma = 36.78 m²



RELAÇÃO DO AÇO					
		P133-3	P133-2	P133-1	
		P140-2	P140-1	P140-2	
		P150-1	P150-1	P150-1	
		P170-2	P170-1	P170-1	
		P180-1	P180-2	P180-1	
		P190-3	P190-2	P190-1	
AÇO	N	DIAM (mm)	QUANT	C-UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	128	77	17556
	2	5,0	202	54	3508
	3	5,0	58	67	4056
	4	5,0	32	54	1728
	5	5,0	14	24	336
CA50	1	10,0	8	167	1336
	2	10,0	36	317	11412
	3	10,0	8	358	2864
	4	10,0	4	75	300
	10	10,0	32	184	5888
	11	10,0	6	142	852
	12	12,5	5	154	770

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	226.5	139.7
	12.5	15.4	14.9
	5.0	296.8	45.8
C.CSO TOTAL			

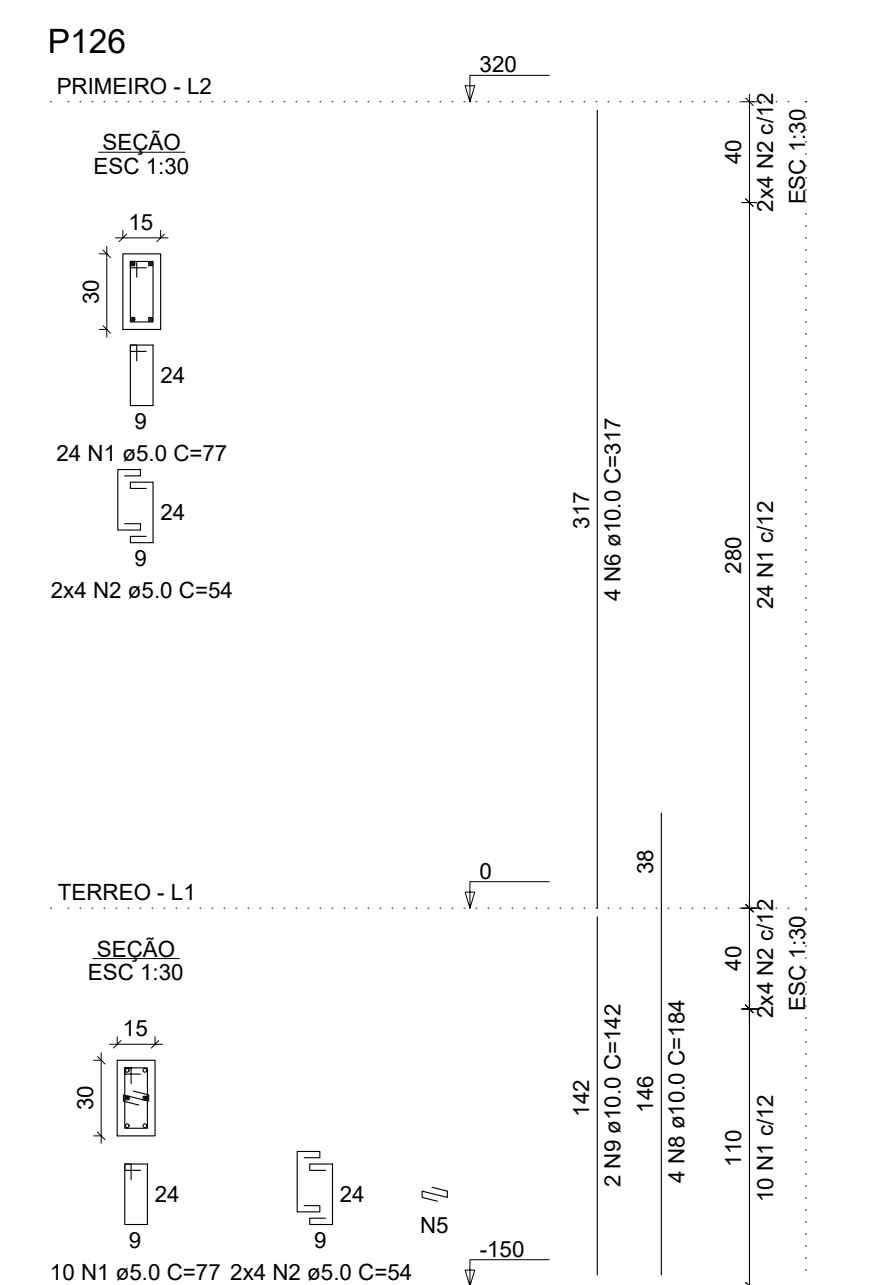
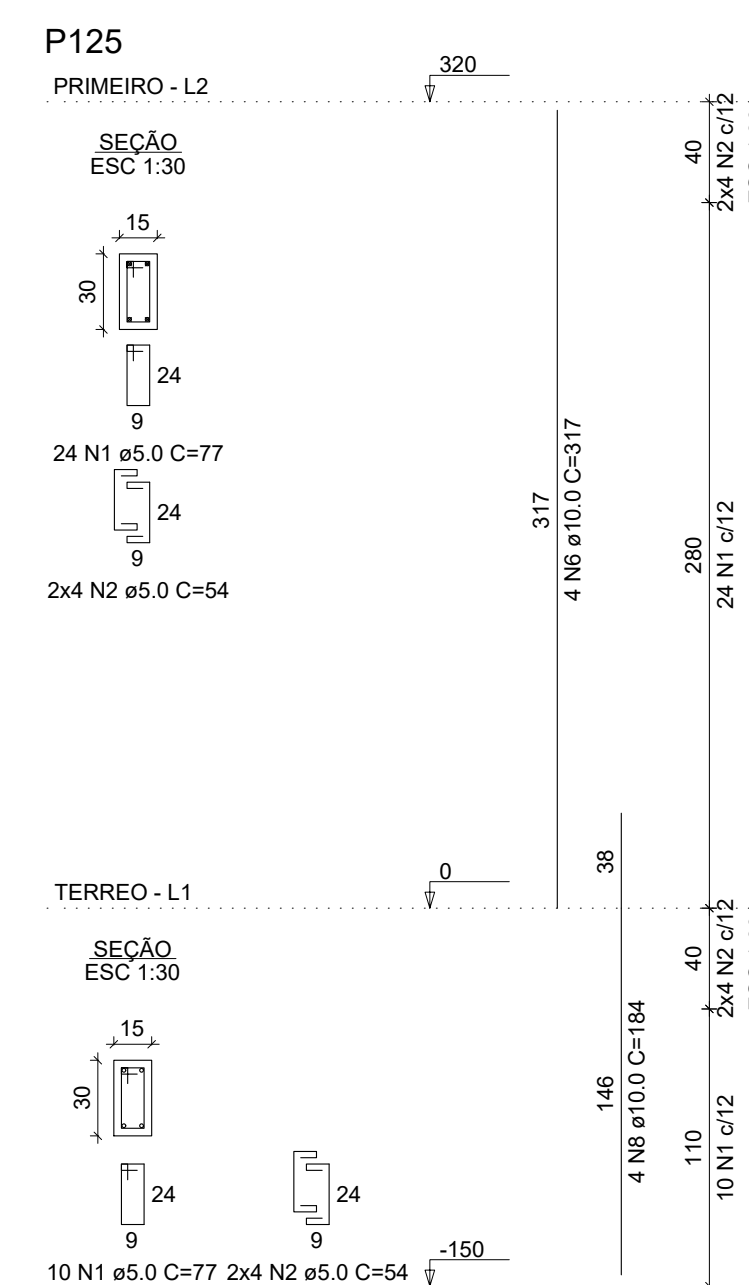
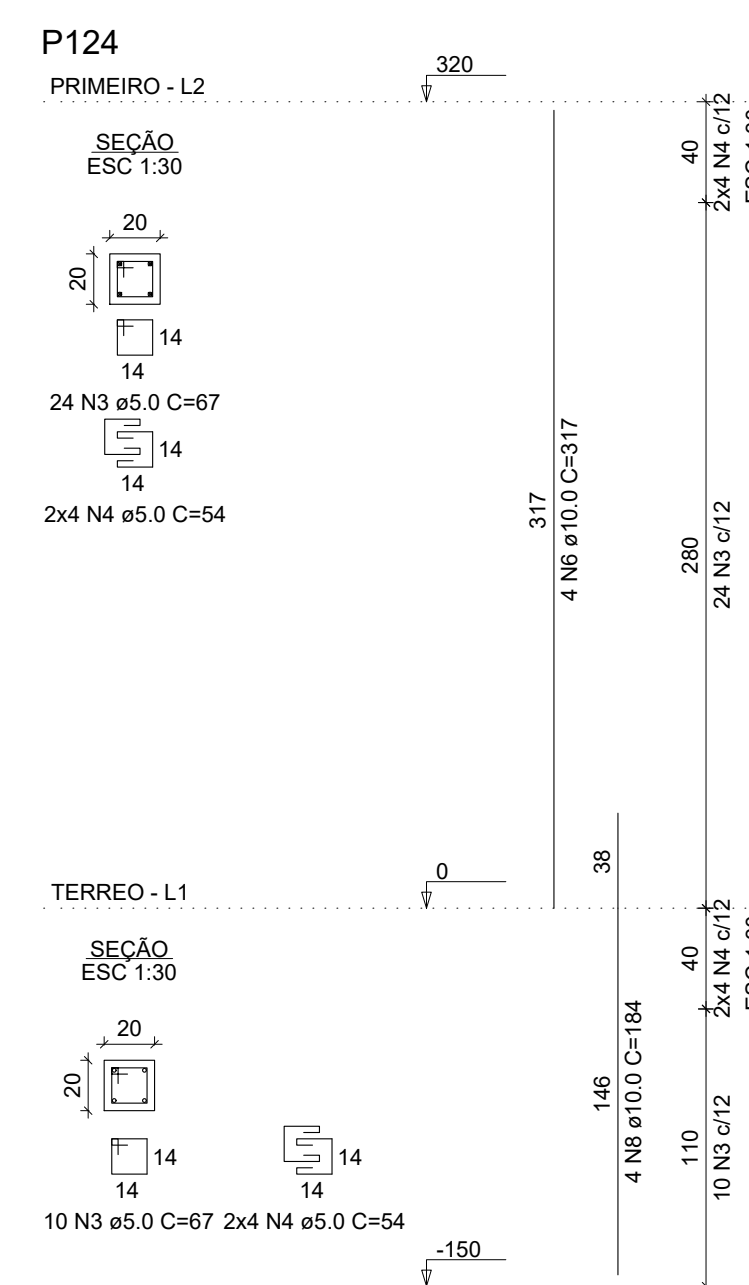
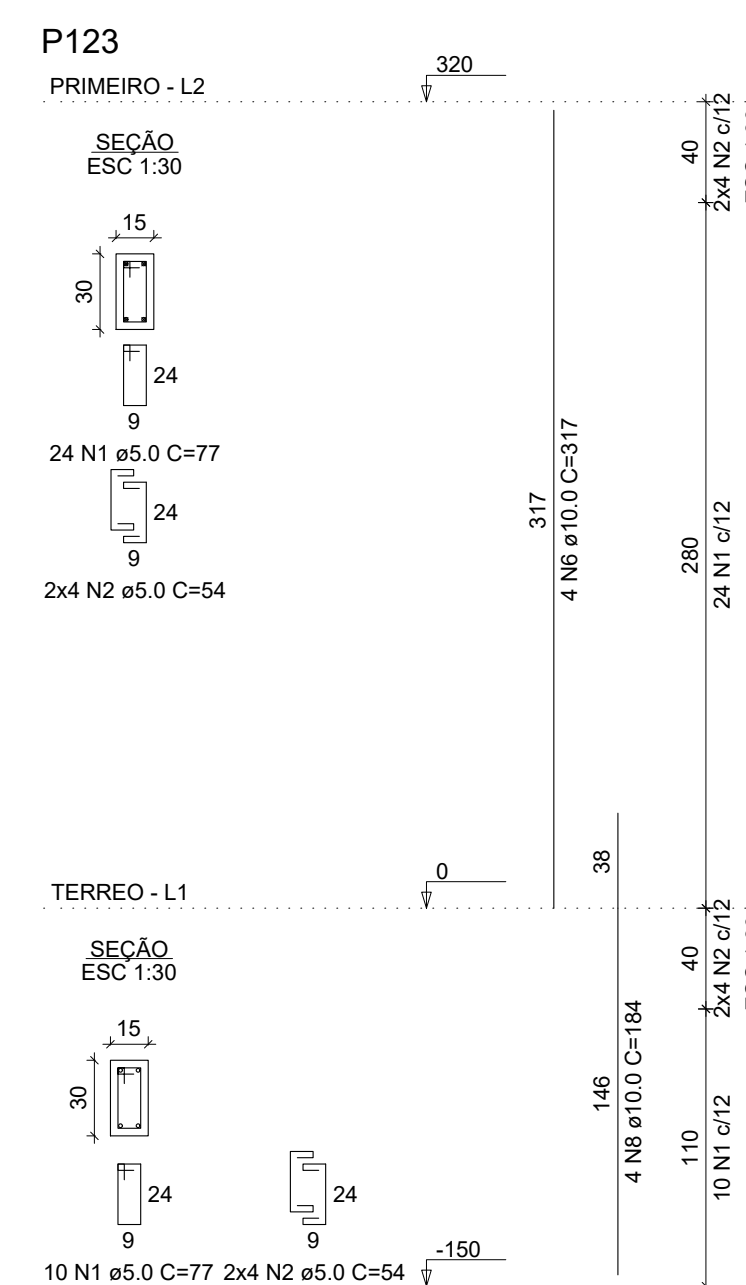
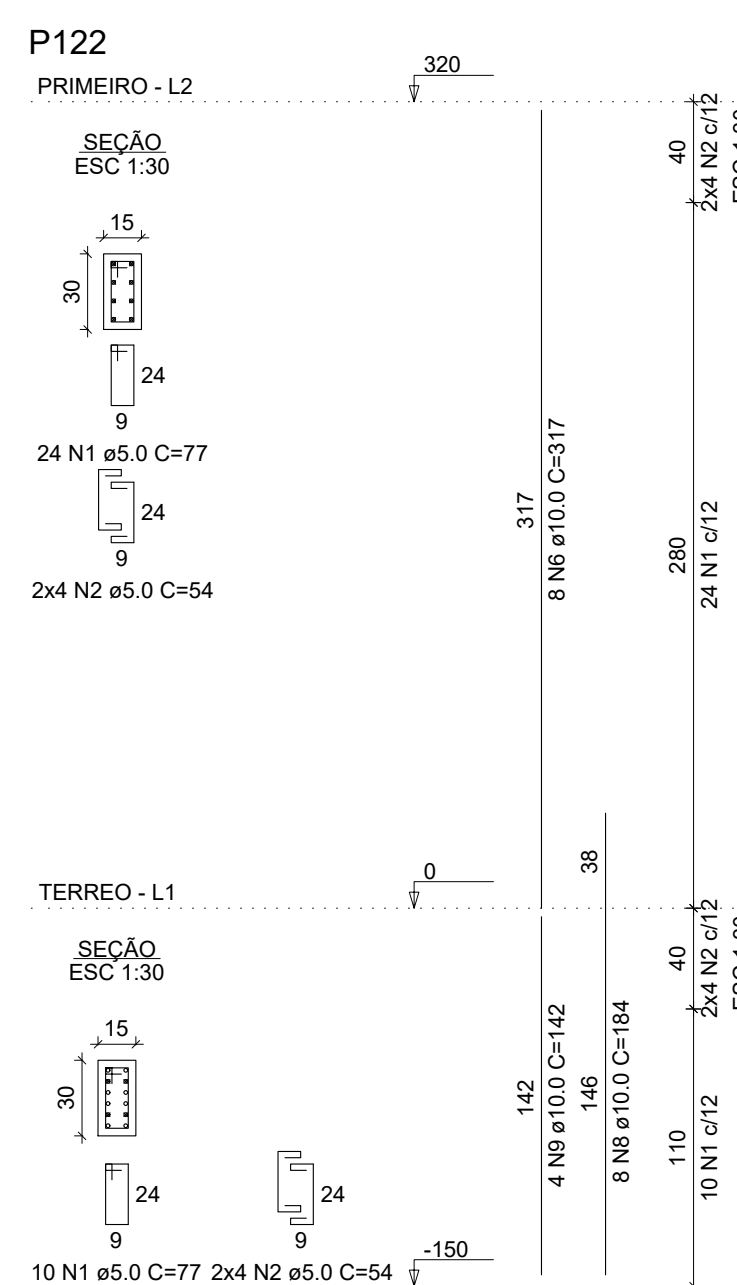
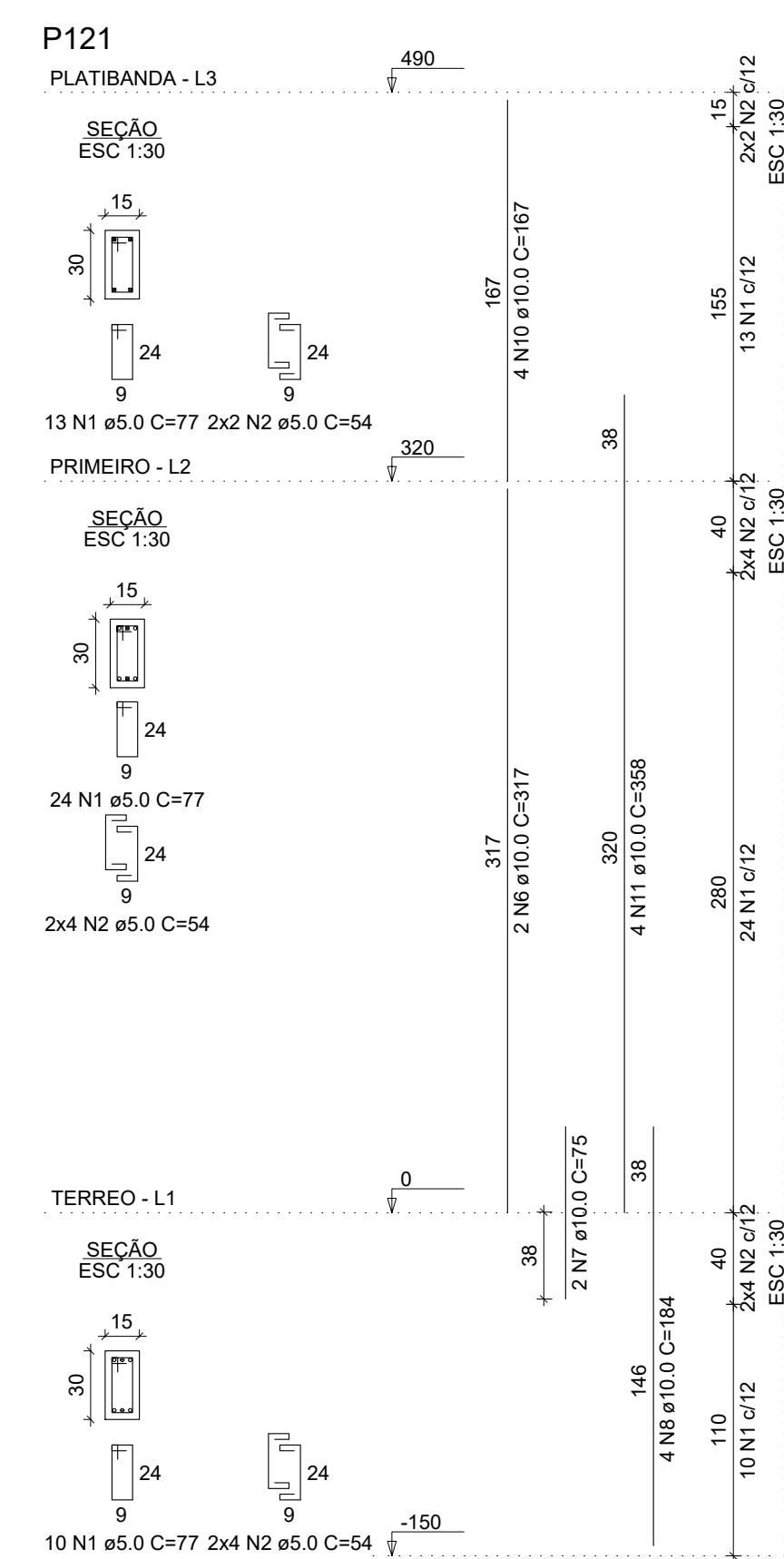
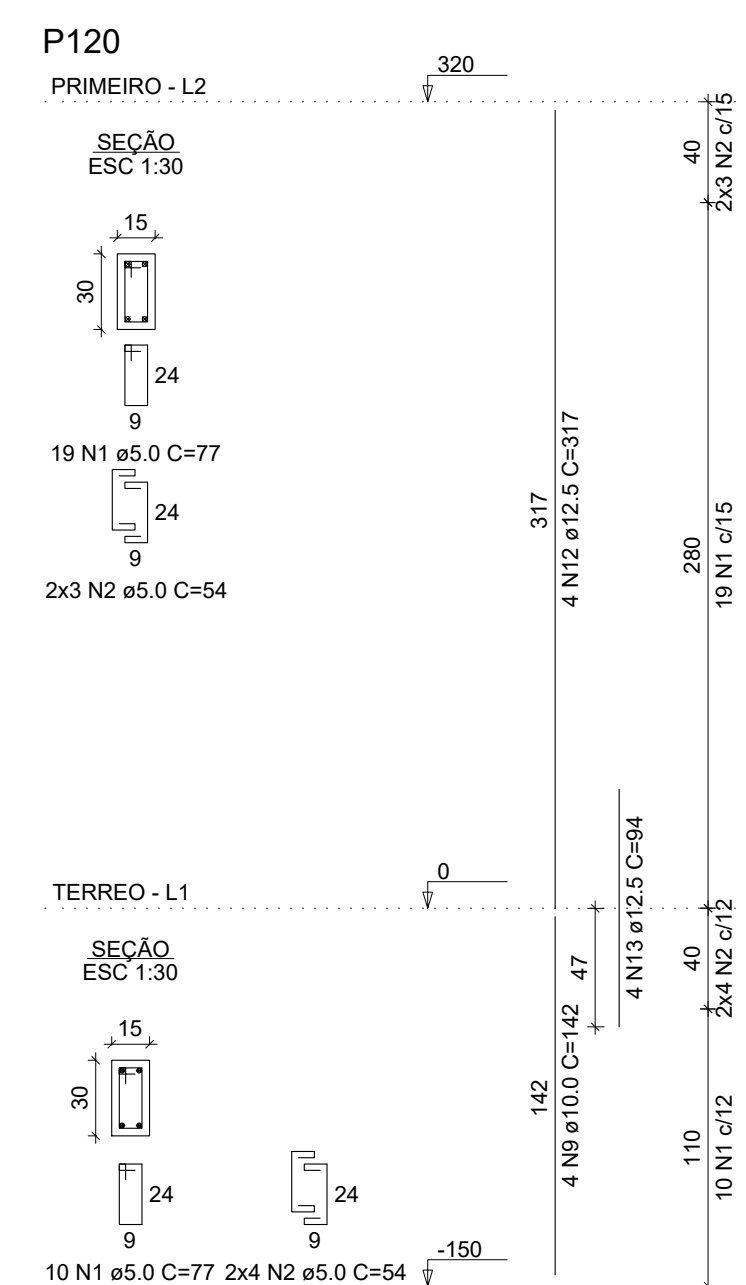
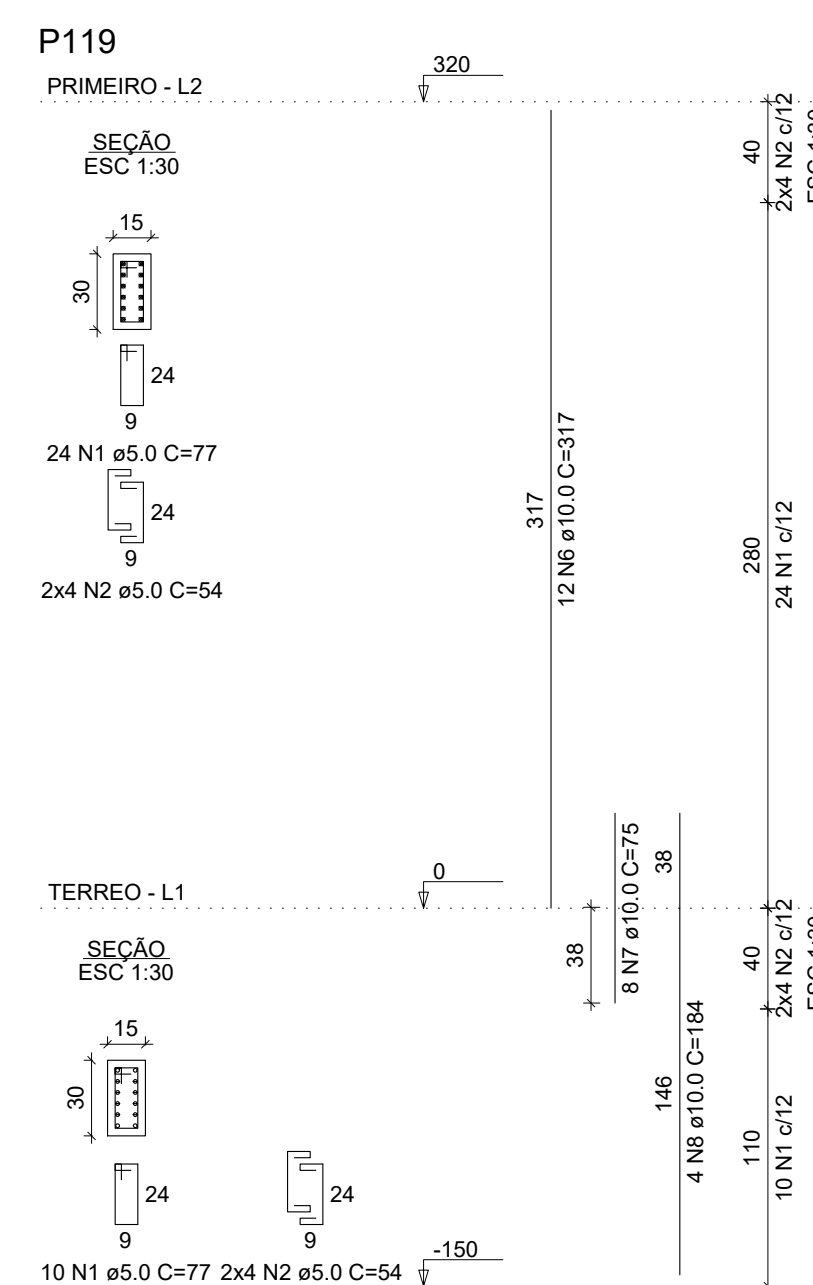
Volume de concreto (C-25) = 1.80 m³
Área de forma = 35.96 m²



RELAÇÃO DO AÇO					
		P11-L3	P11-L2	P11-L1	
		P112-L2	P112-L1	P113-L2	
		P113-L1	P114-L2	P114-L1	
		P115-L2	P115-L1	P116-L2	
		P116-L1	P117-L2	P117-L1	
		P118-L3	P118-L2	P118-L1	
ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	192	77	14856
	2	5,0	84	54	4536
	3	5,0	68	67	4556
	4	5,0	32	54	1728
	5	5,0	34	87	2958
	6	5,0	16	59	944
CA50	7	5,0	11	24	264
	8	10,0	8	167	1336
	9	10,0	38	117	4446
	10	10,0	8	358	2864
	11	12,5	4	75	300
	12	10,0	24	184	4416
	13	12,5	16	193	3088
	14	12,5	2	162	324

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	203.3	125.3
	12.5	33.7	32.5
CA60	5.0	297.7	45.9
PESO TOTAL (kg)			

Volume de concreto (C-25) = 1.83 m³
Área de forma = 36.43 m²

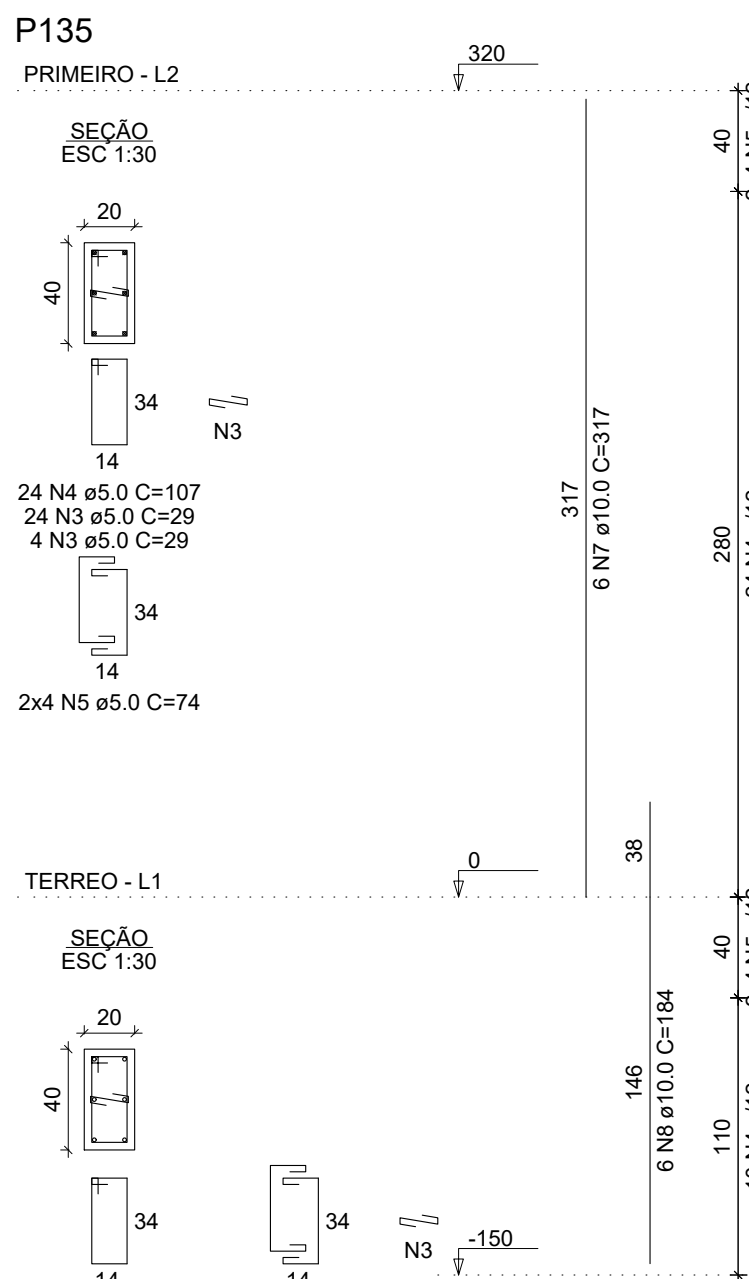
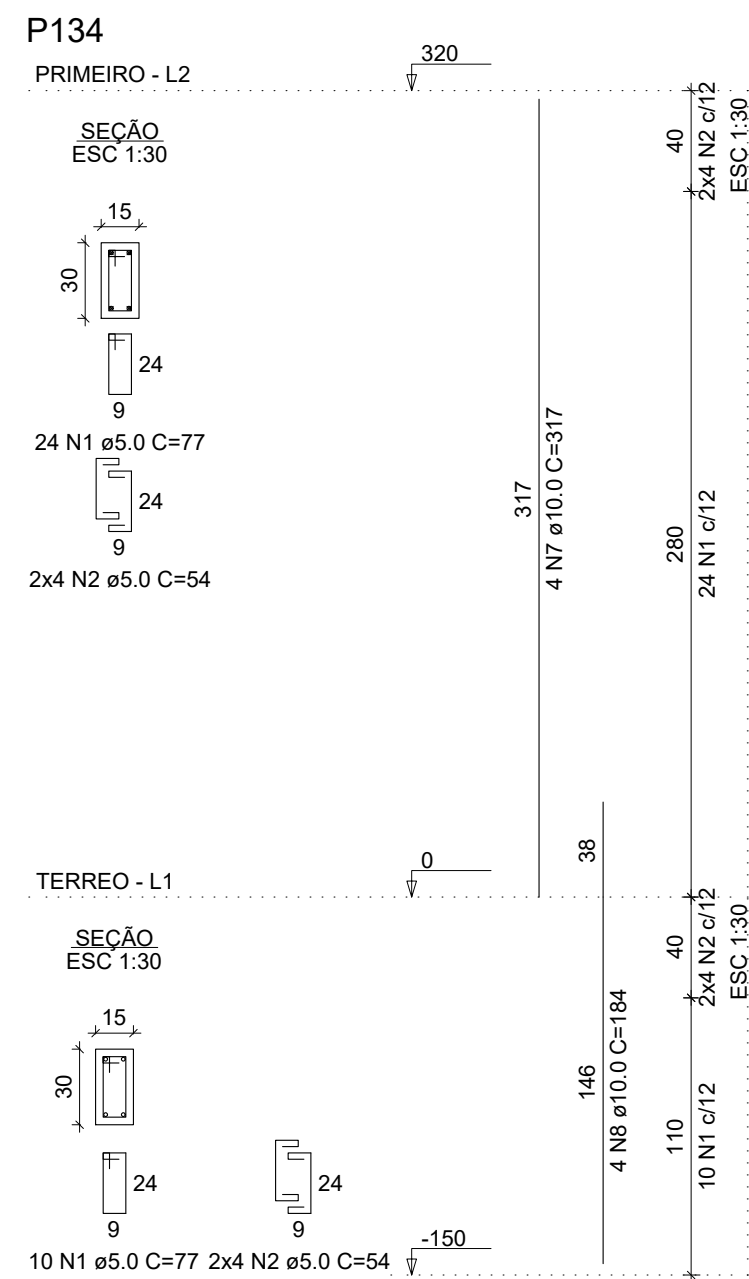
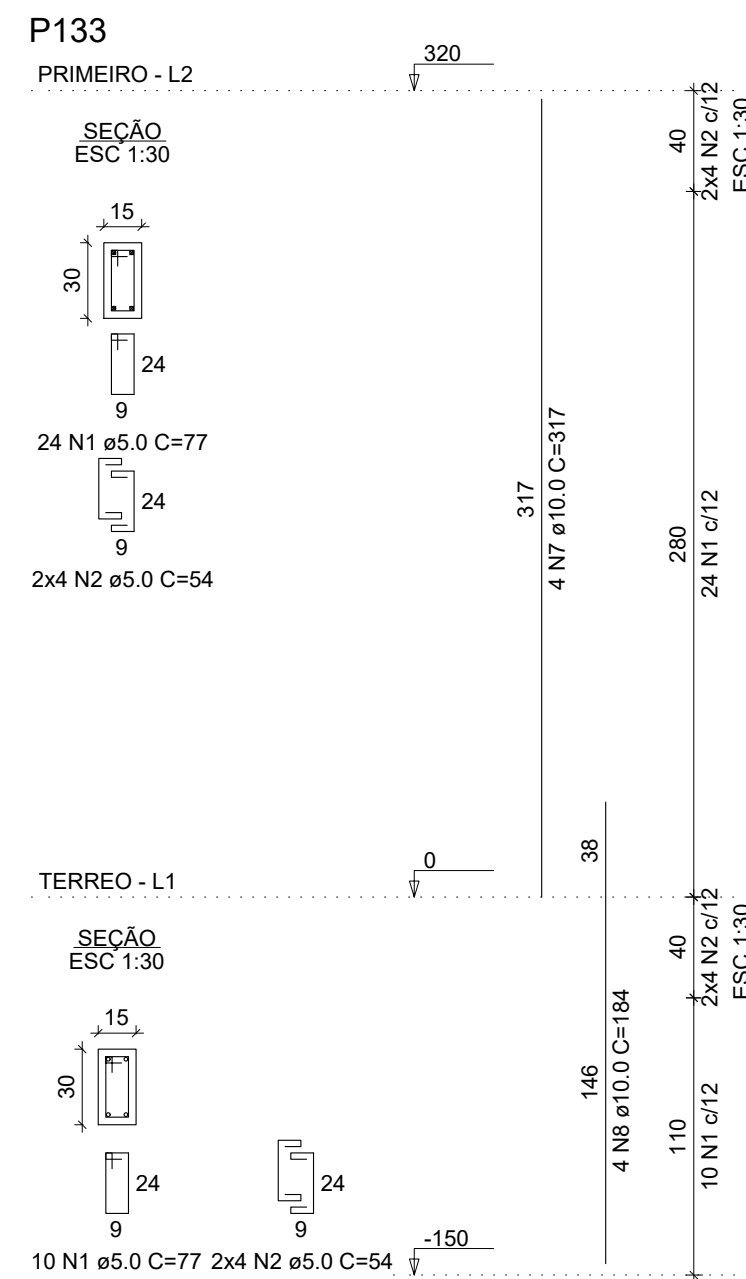
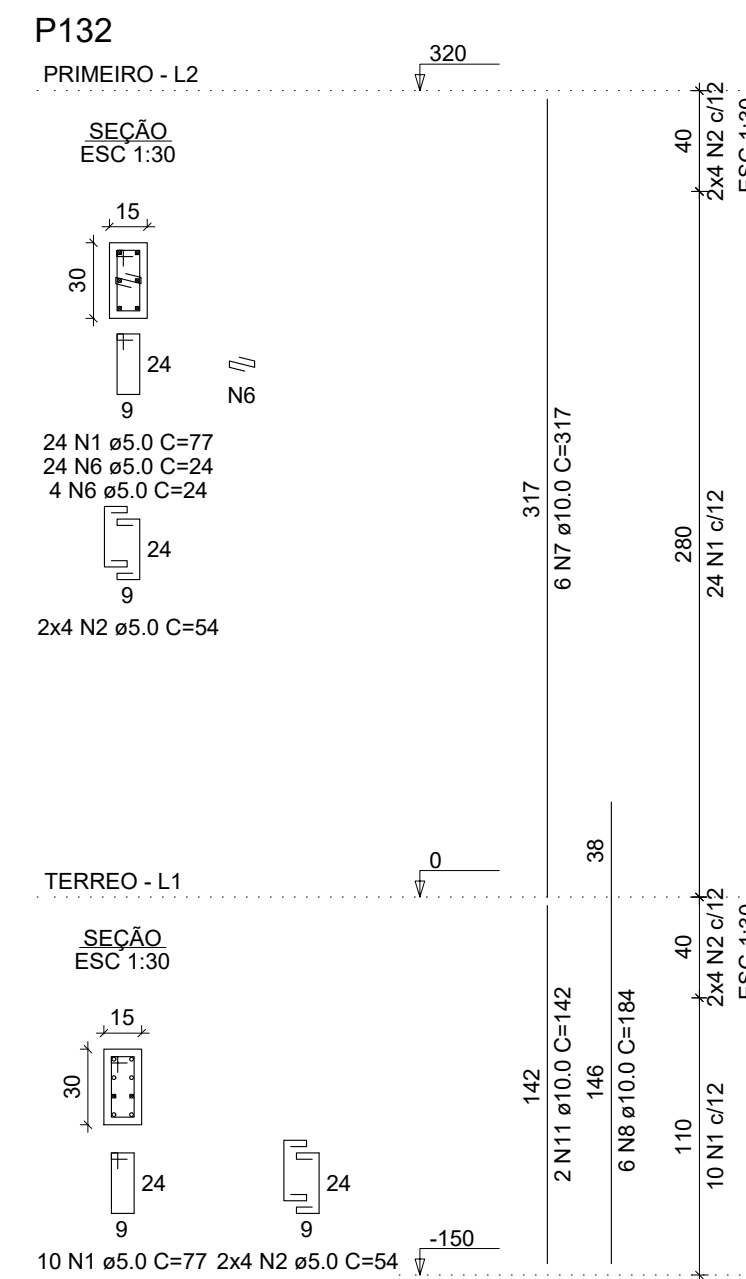
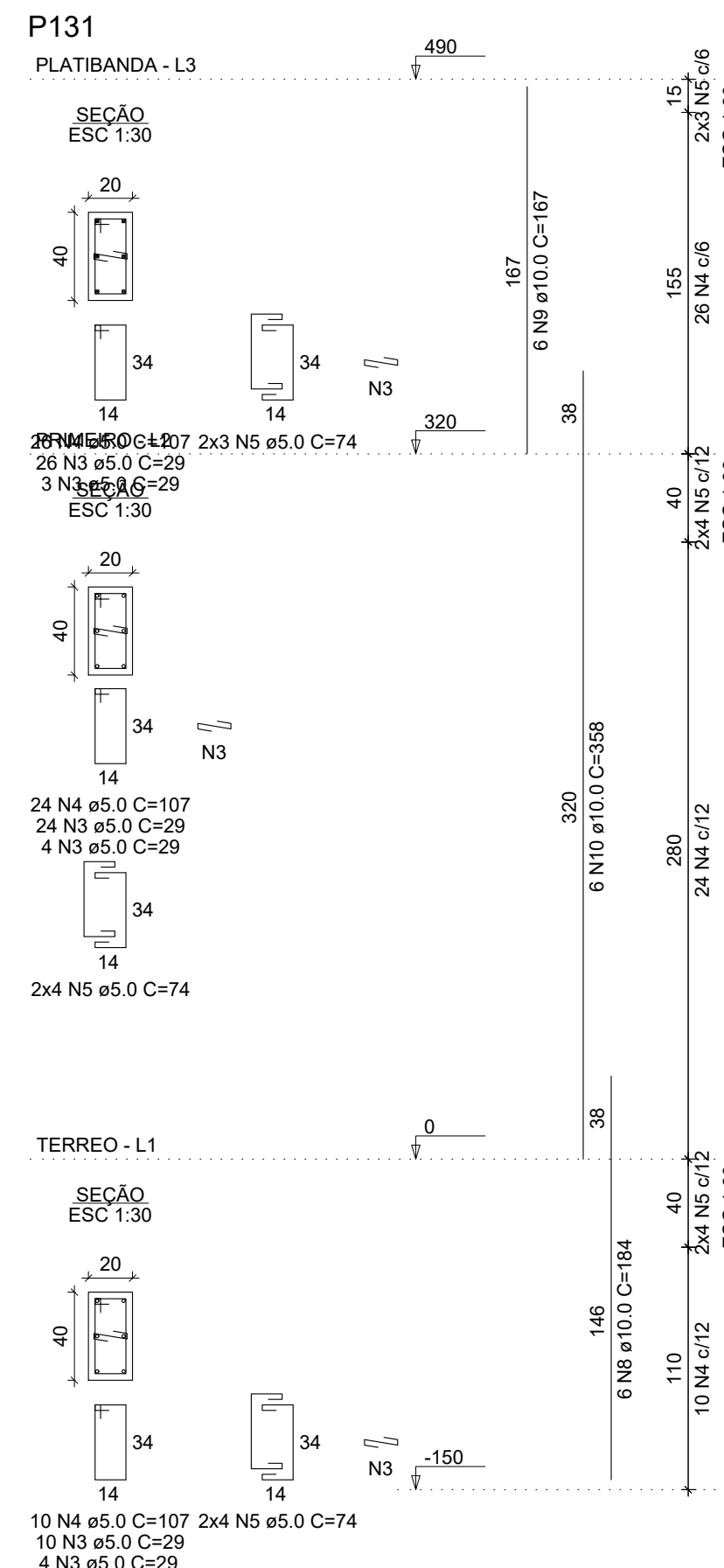
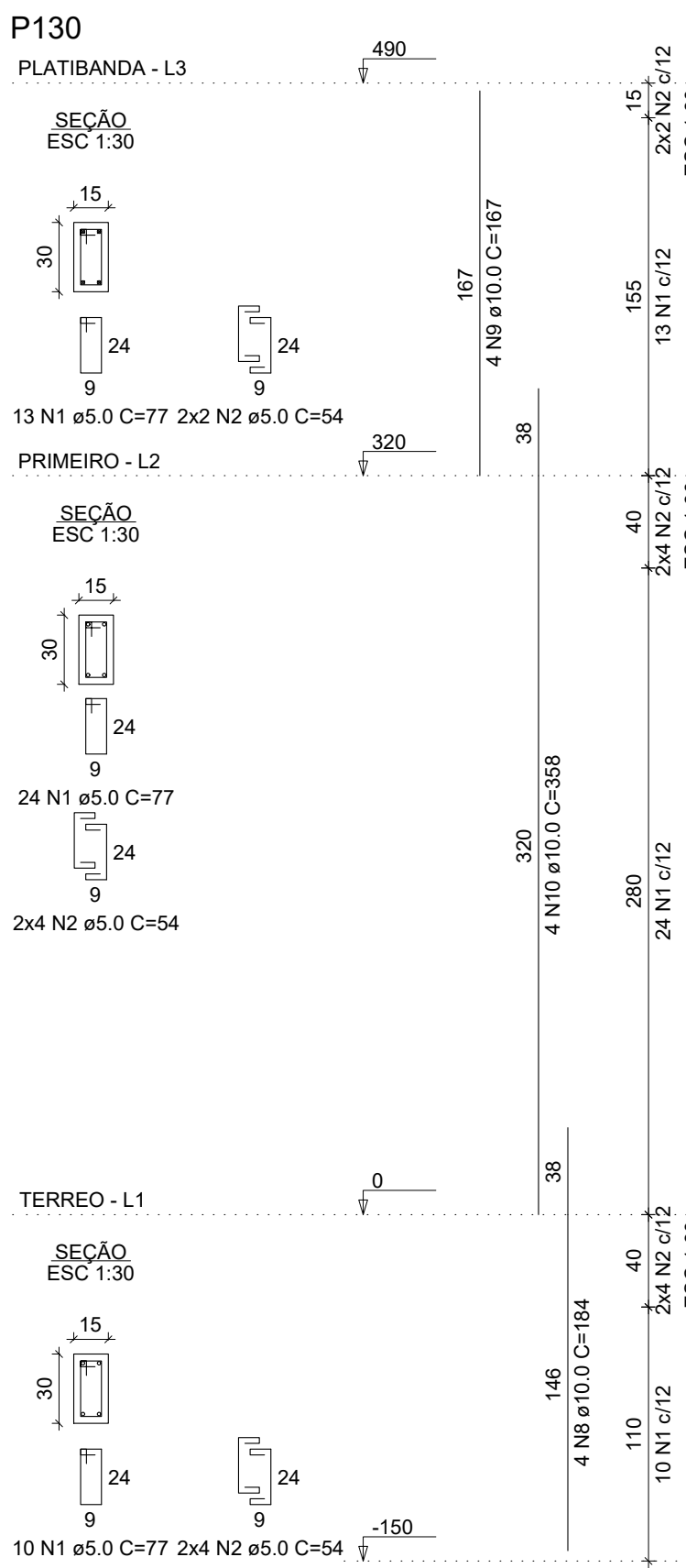
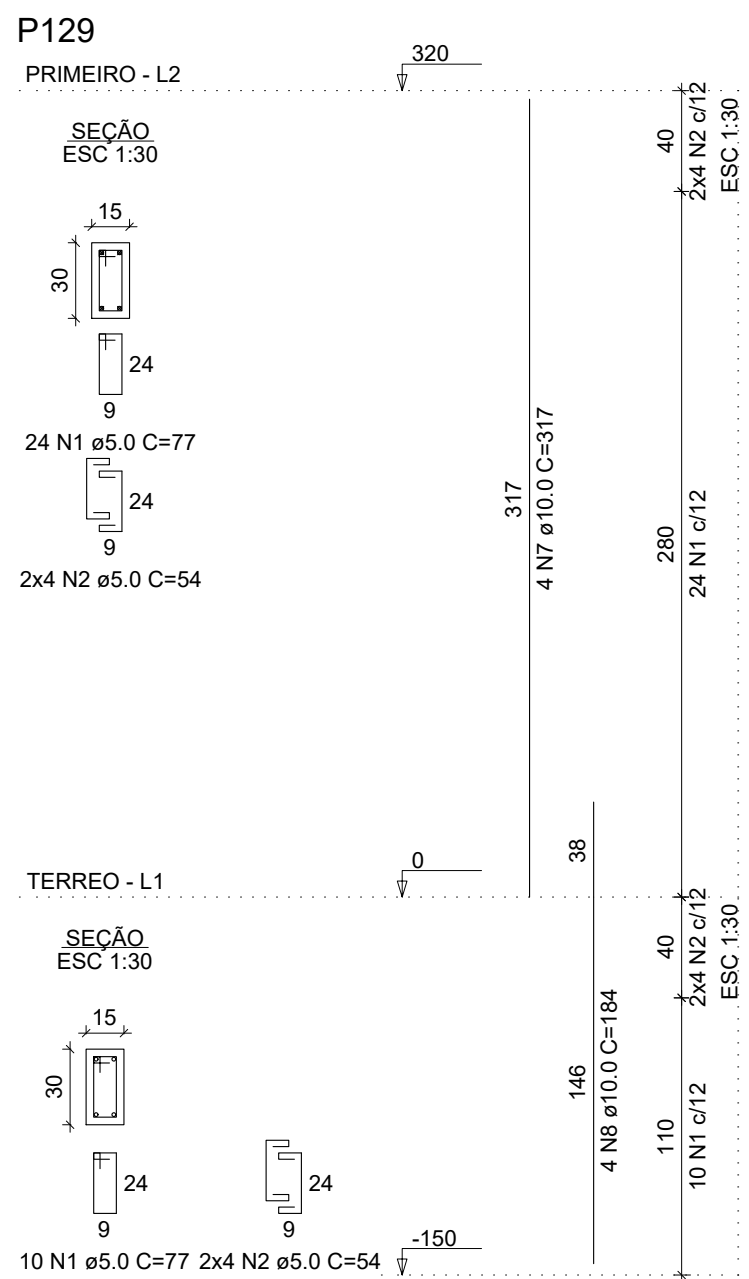
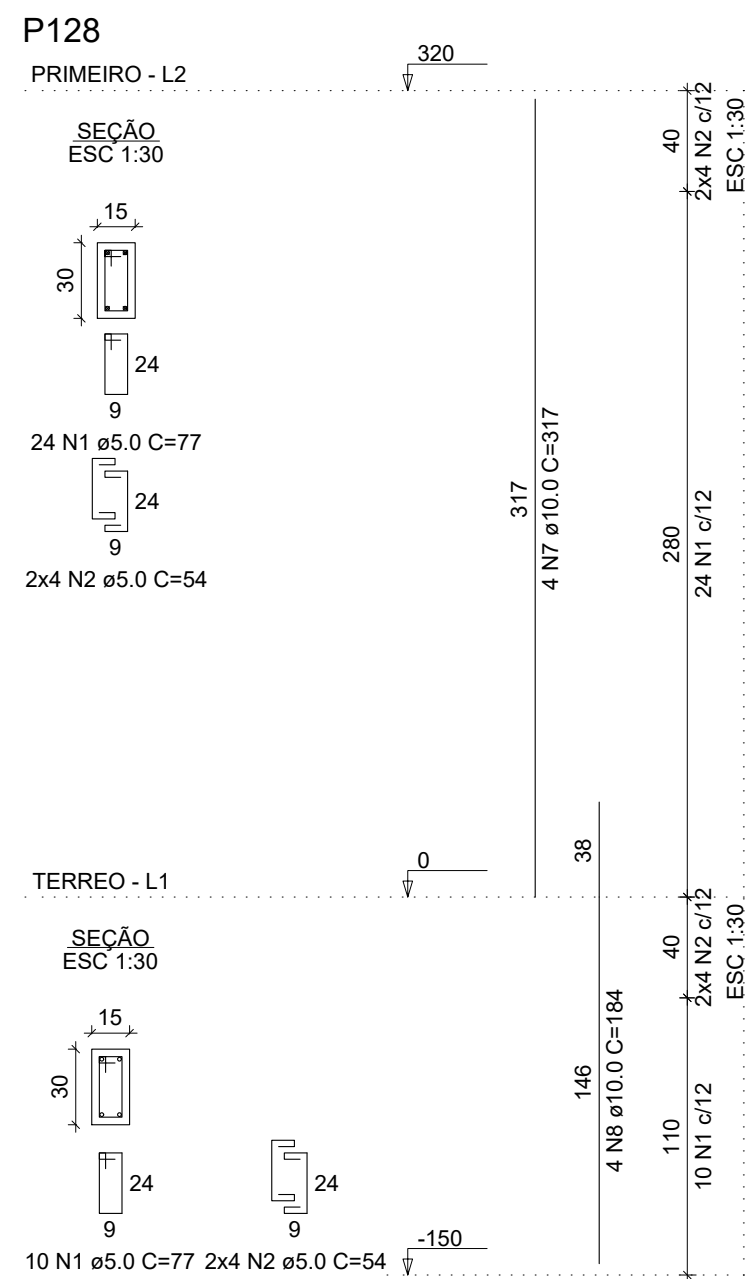
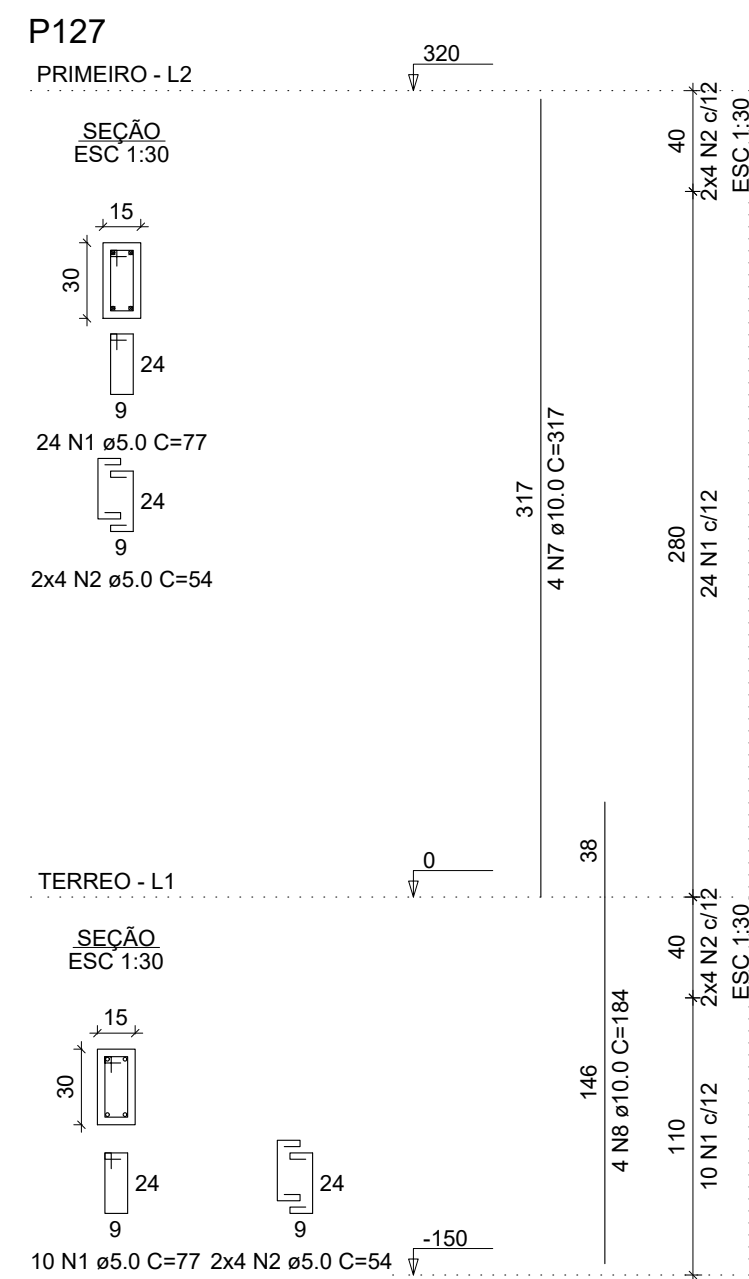


RELAÇÃO DO AÇO					
P19-1/2			P19-1/4		P120-1/2
P120-1/2			P121-1/3		P121-1/2
P121-1/4			P122-1/2		P122-1/4
P122-1/2			P123-1/4		P124-1/2
P124-1/4			P125-1/2		P125-1/4
P126-1/2			P126-1/4		

AÇO	N	DIAM (mm)	QUANT	C.UNIT	C.TOTAL
CA50	1	5,0	246	77	18942
	2	5,0	114	77	8758
	3	5,0	34	67	2278
	4	5,0	16	54	864
	5	5,0	14	24	330
	6	10,0	38	317	12046
	7	10,0	32	75	2400
	8	10,0	32	184	5880
	9	10,0	10	142	1420
	10	10,0	4	167	668
	11	10,0	4	358	1432
	12	12,5	4	317	1268
	13	12,5	4	358	1432

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10,0	222	136,9
	12,5	16,4	15,8
CA60	5,0	285,8	44
PESO TOTAL (kg)			

Volume de concreto (C-25) = 1,74 m³
Área de forma = 34,90 m²



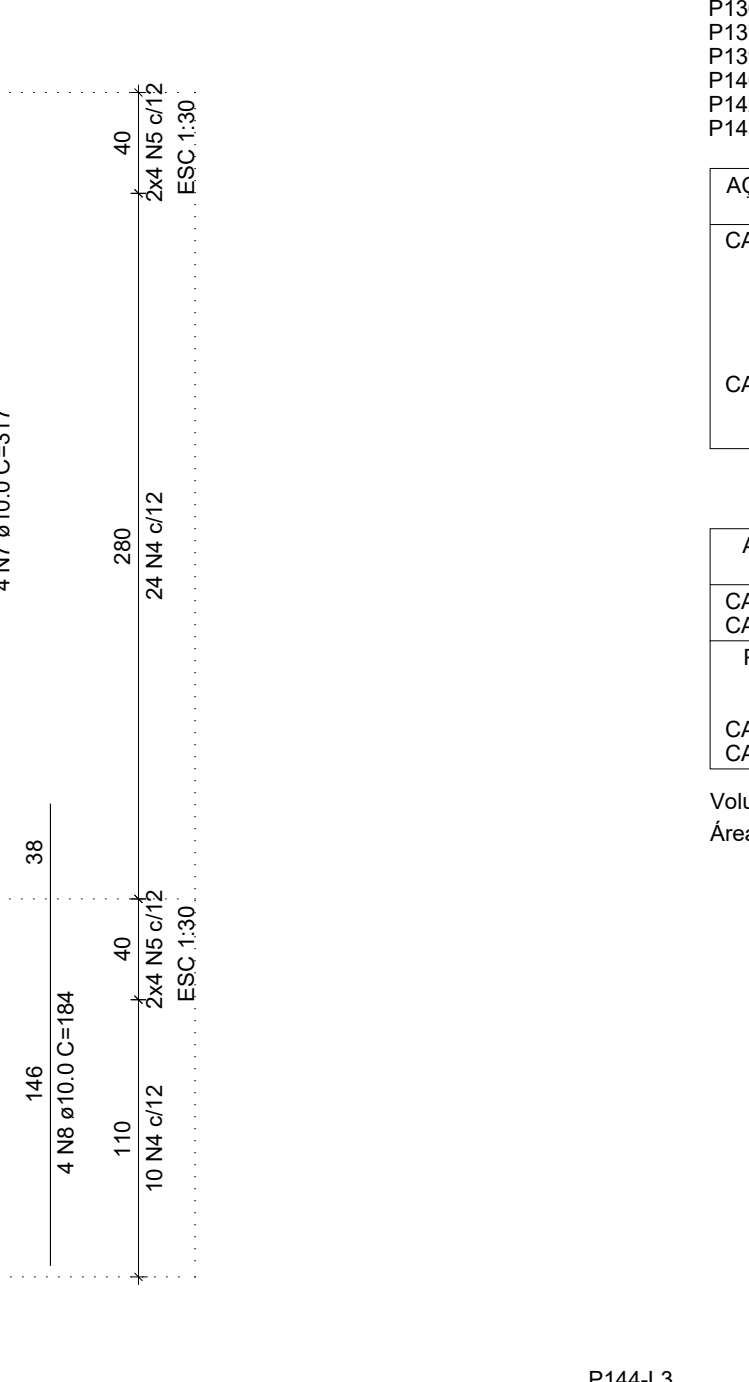
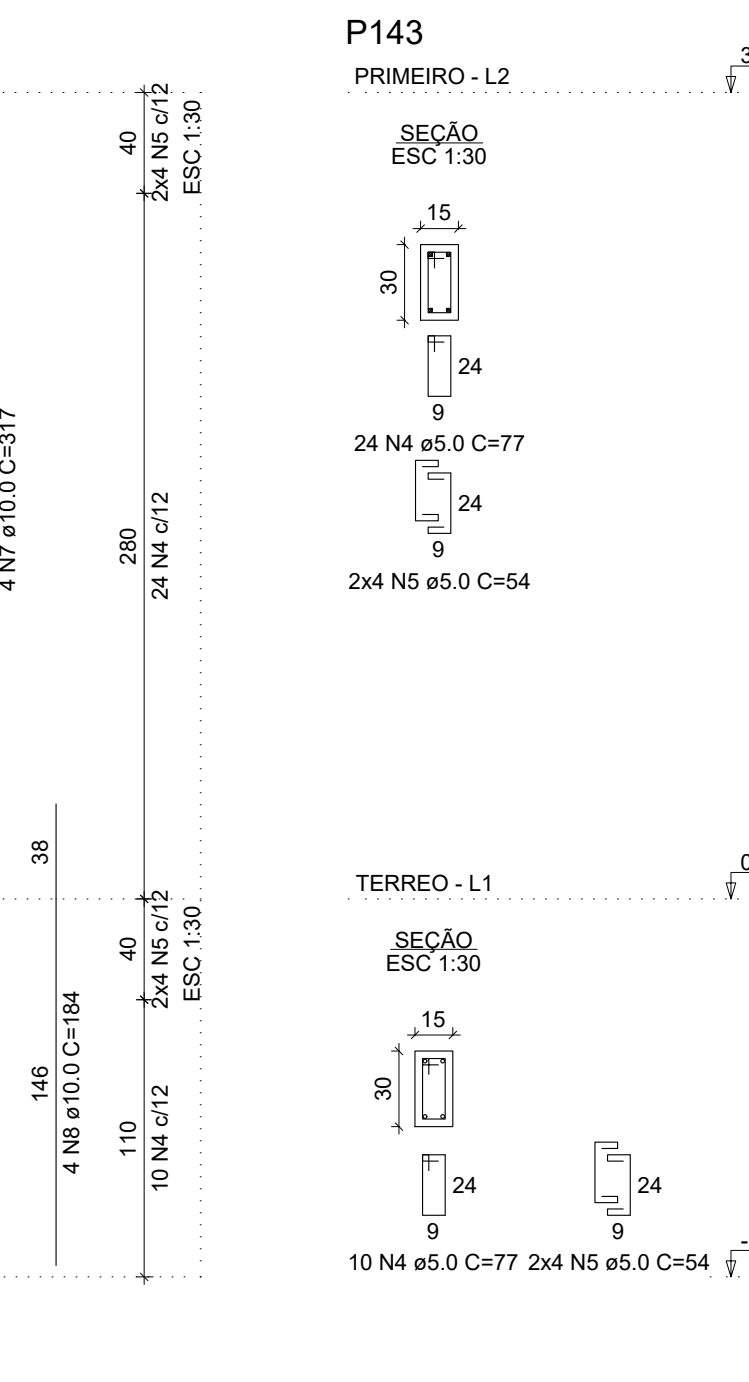
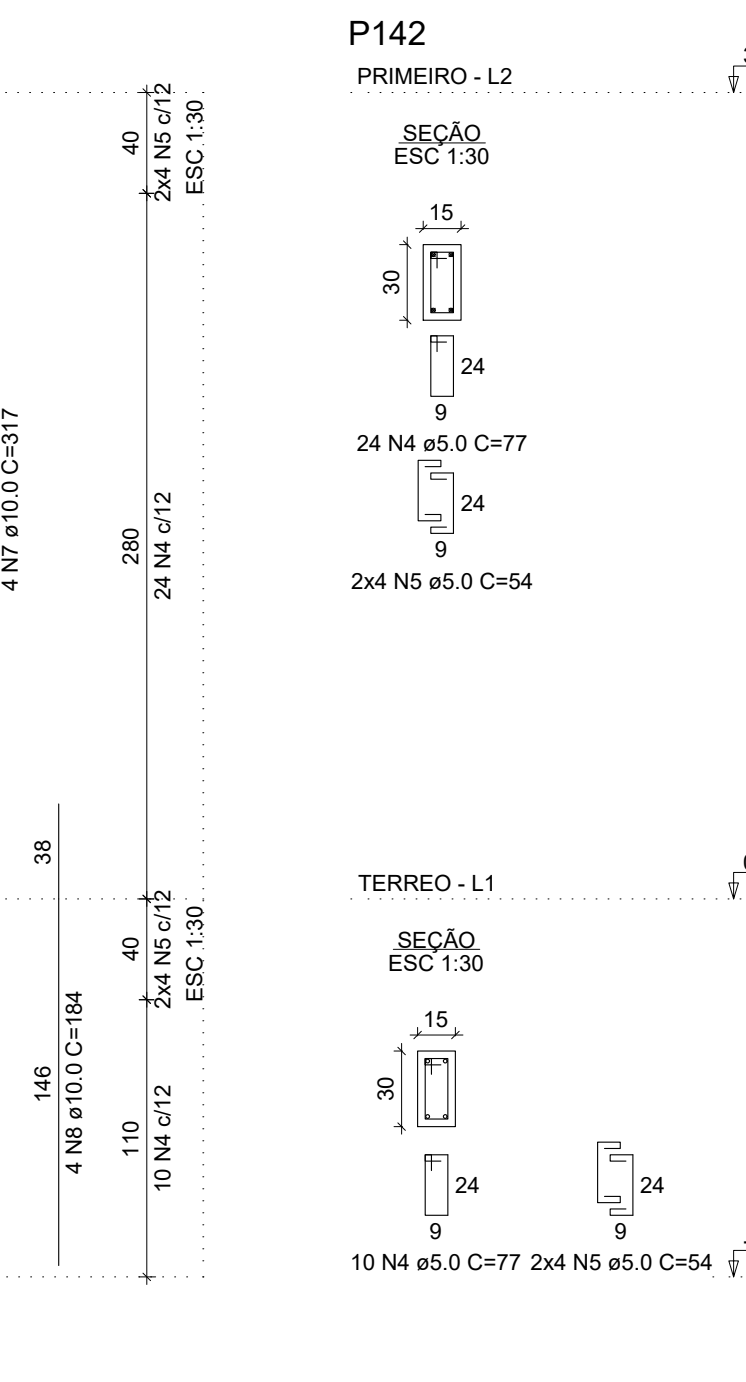
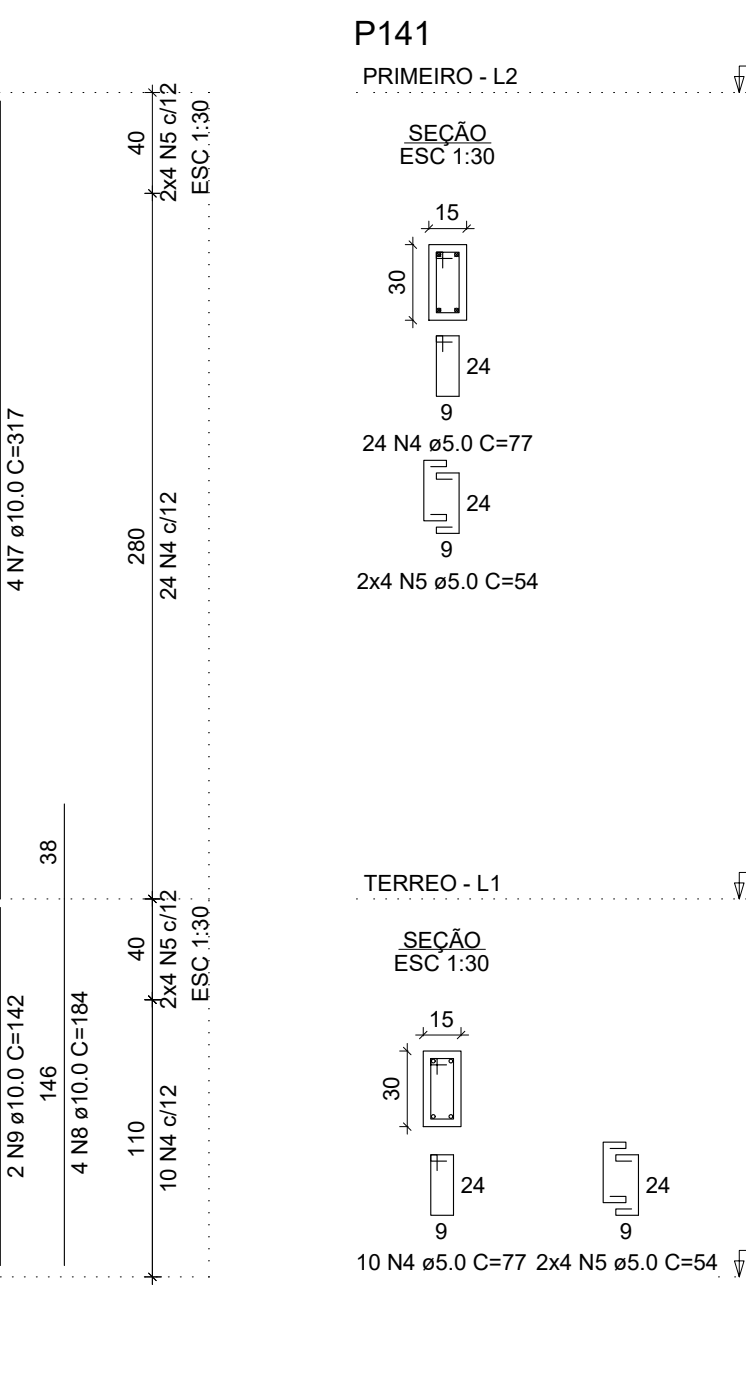
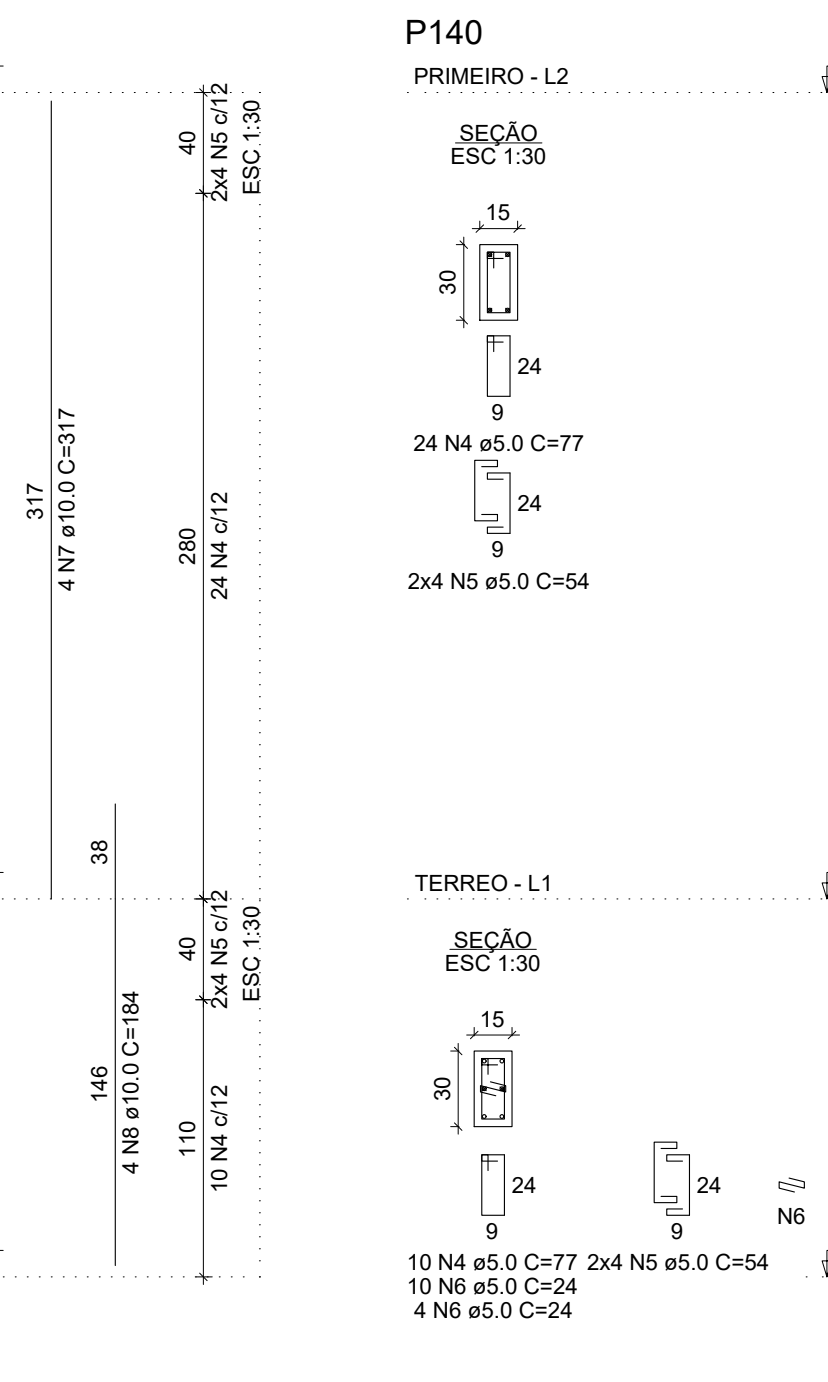
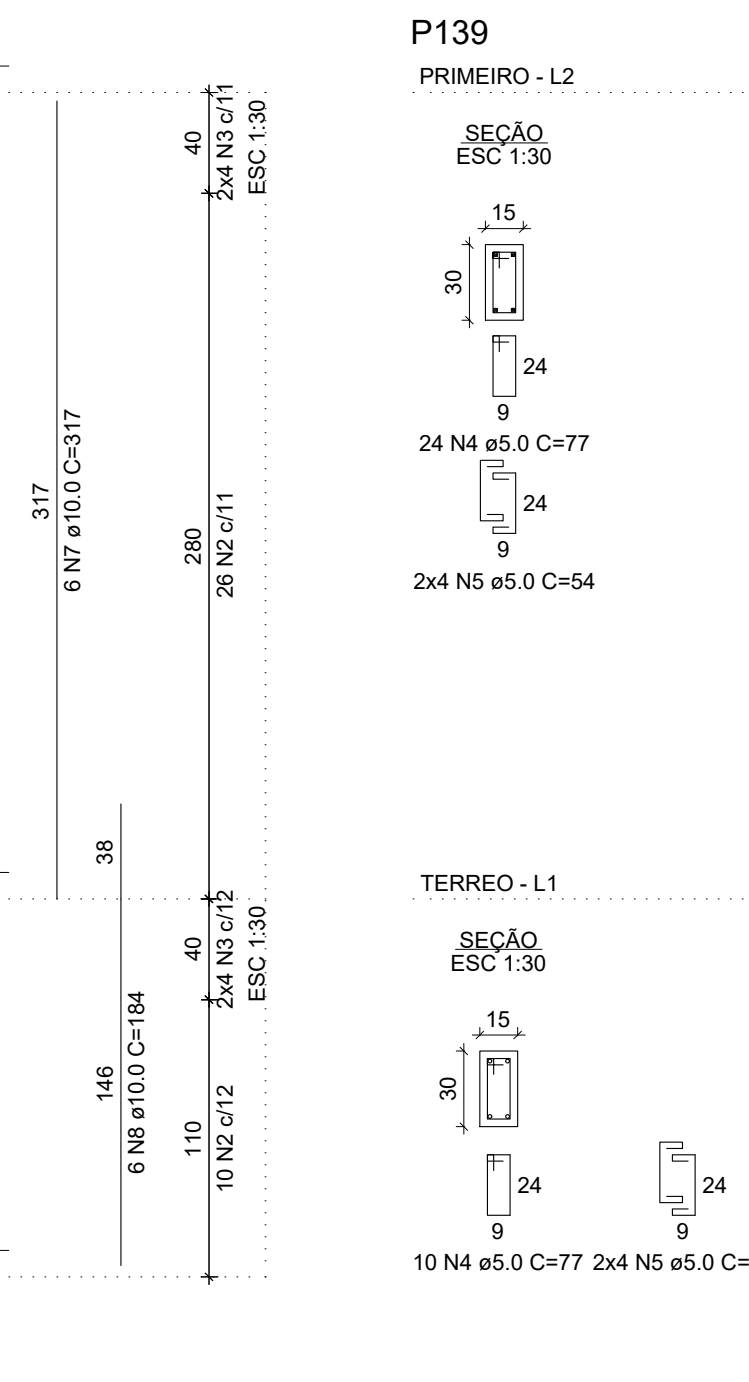
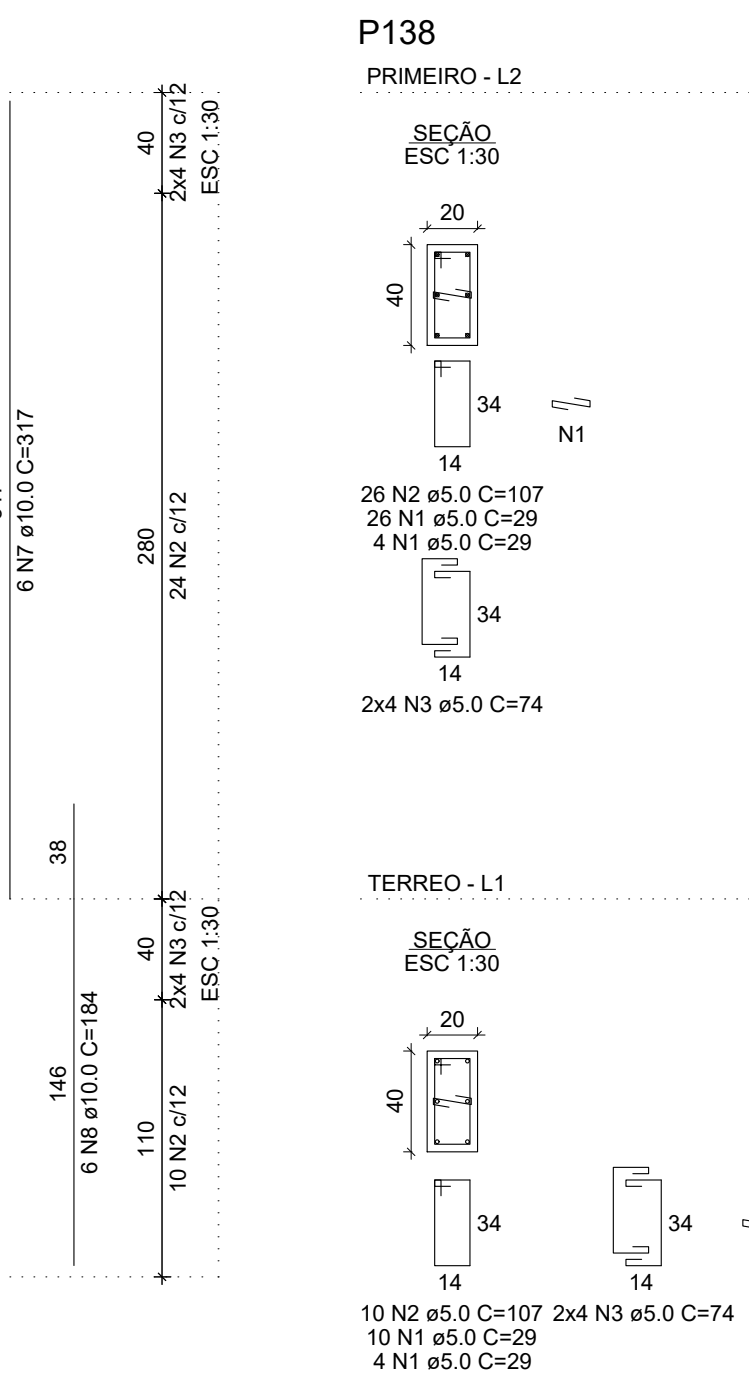
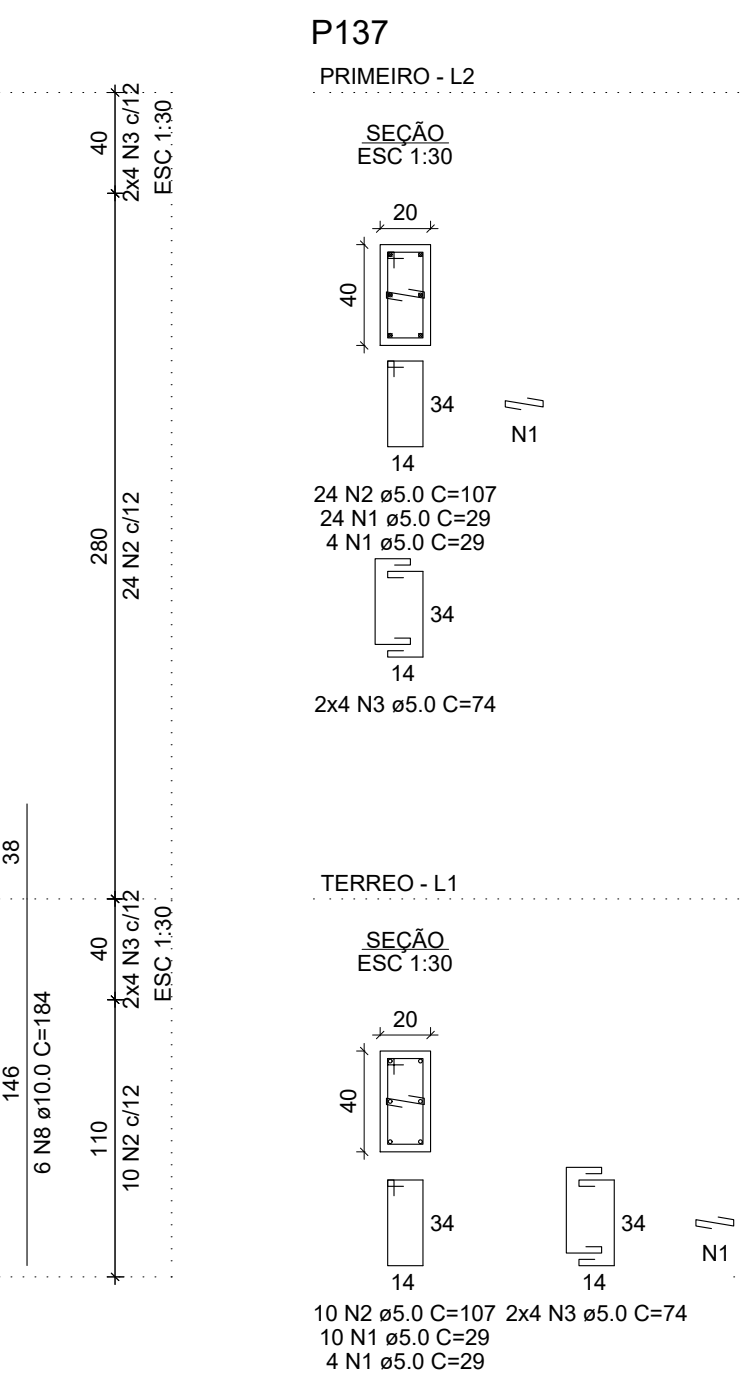
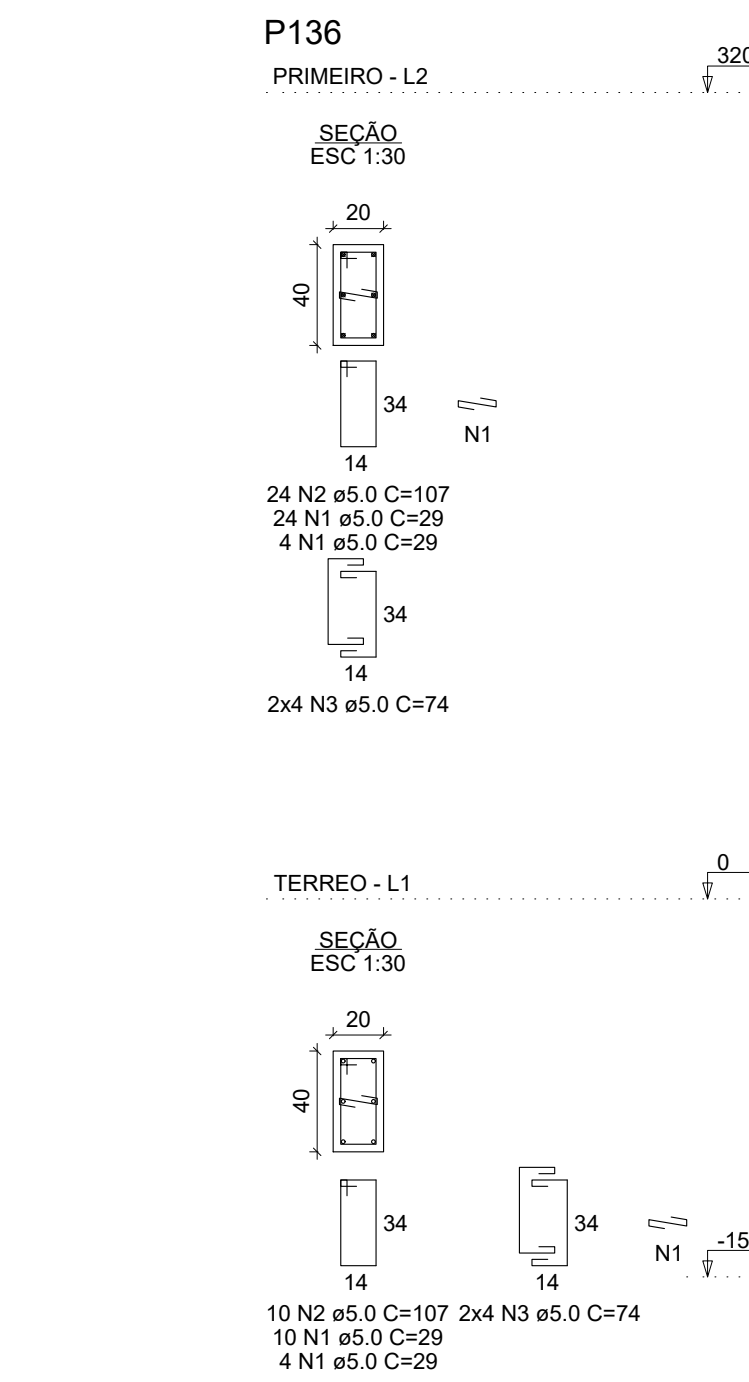
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
P127-L2	1	5.0	251	77	19327
P128-L2	1	5.0	116	54	6284
P129-L2	1	5.0	113	29	3277
P130-L3	1	5.0	38	74	2812
P131-L3	1	5.0	38	74	2812
P132-L2	1	5.0	32	317	10144
P133-L2	1	5.0	10	167	1670
P134-L2	1	5.0	10	167	1670
P135-L2	1	5.0	2	142	284

RESUMO DO AÇO

ACO	DIAM (mm)	C TOTAL (m)	PESO + 0% (kg)
CA50	5.0	234.1	144.3
CA50	5.0	424.1	65.4
PESO TOTAL (kg)			144.3
CA50			65.4

Volume de concreto (C-25) = 2.44 m³
Área de forma = 44.46 m²



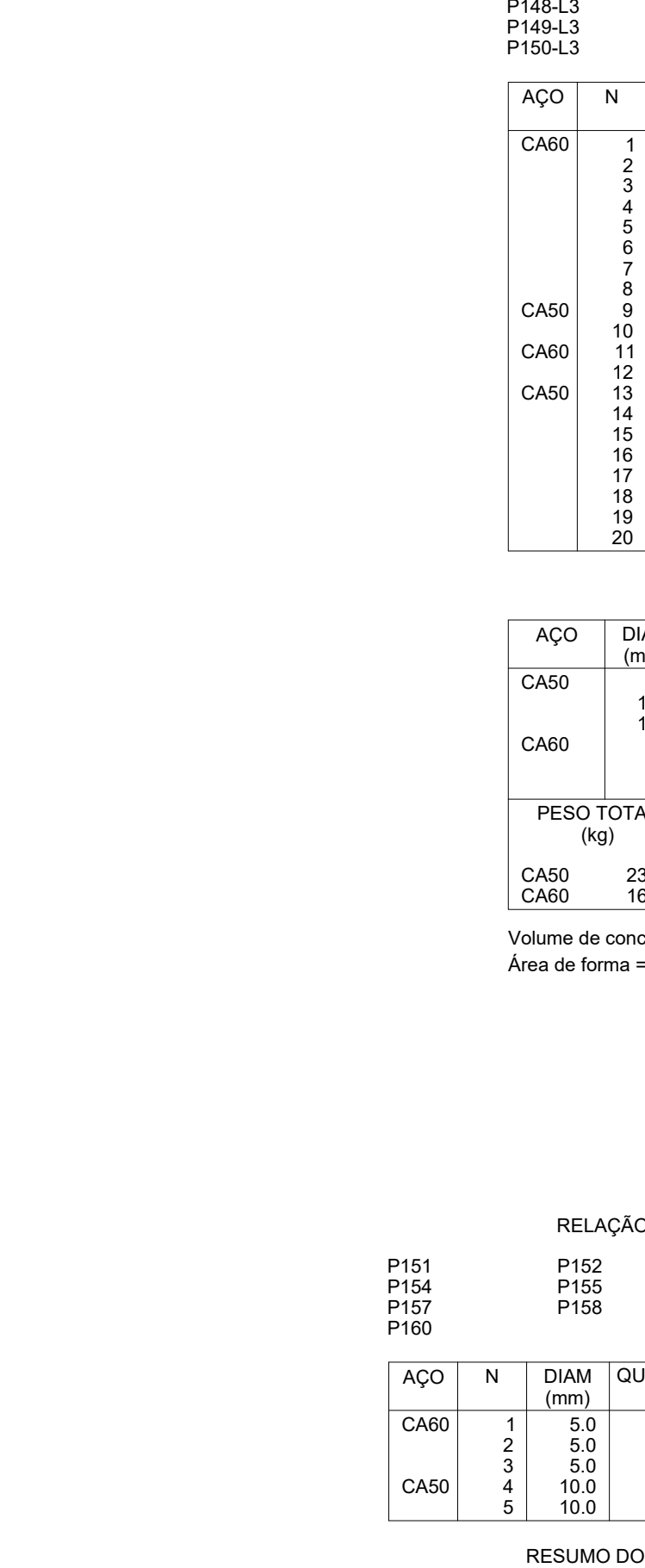
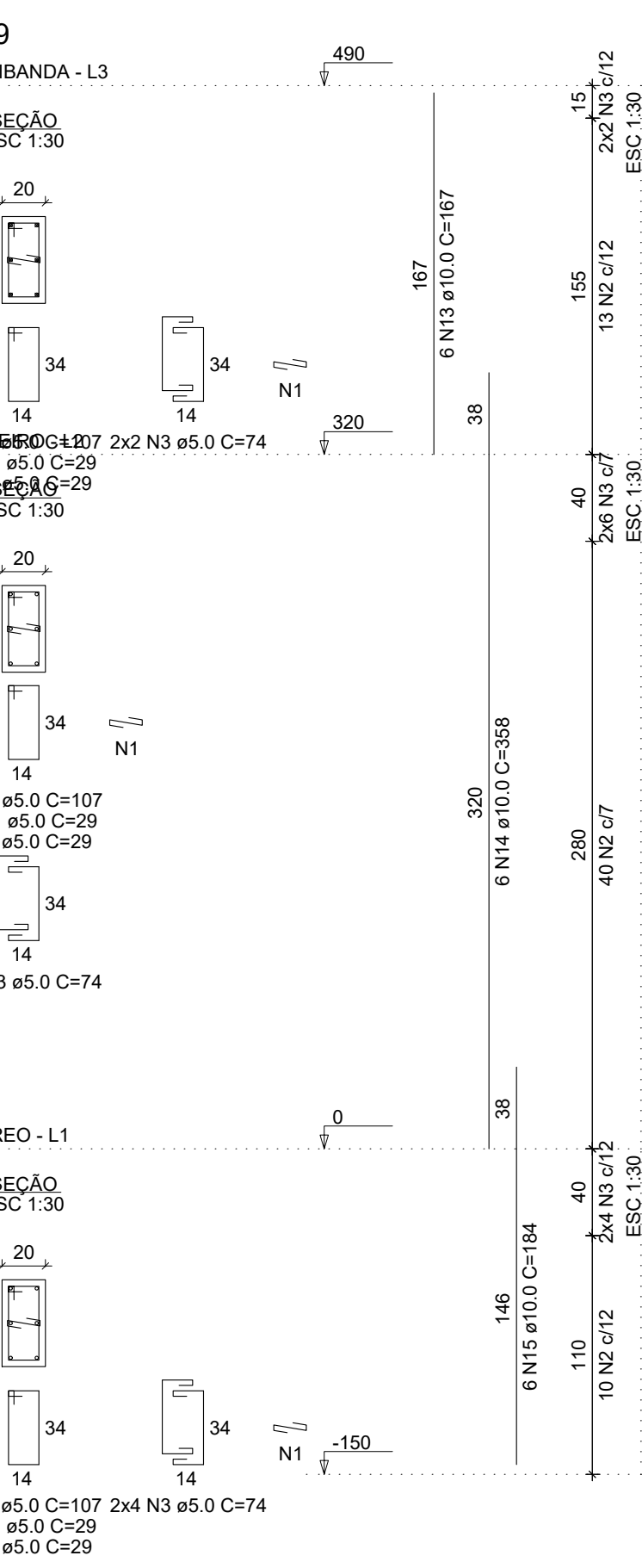
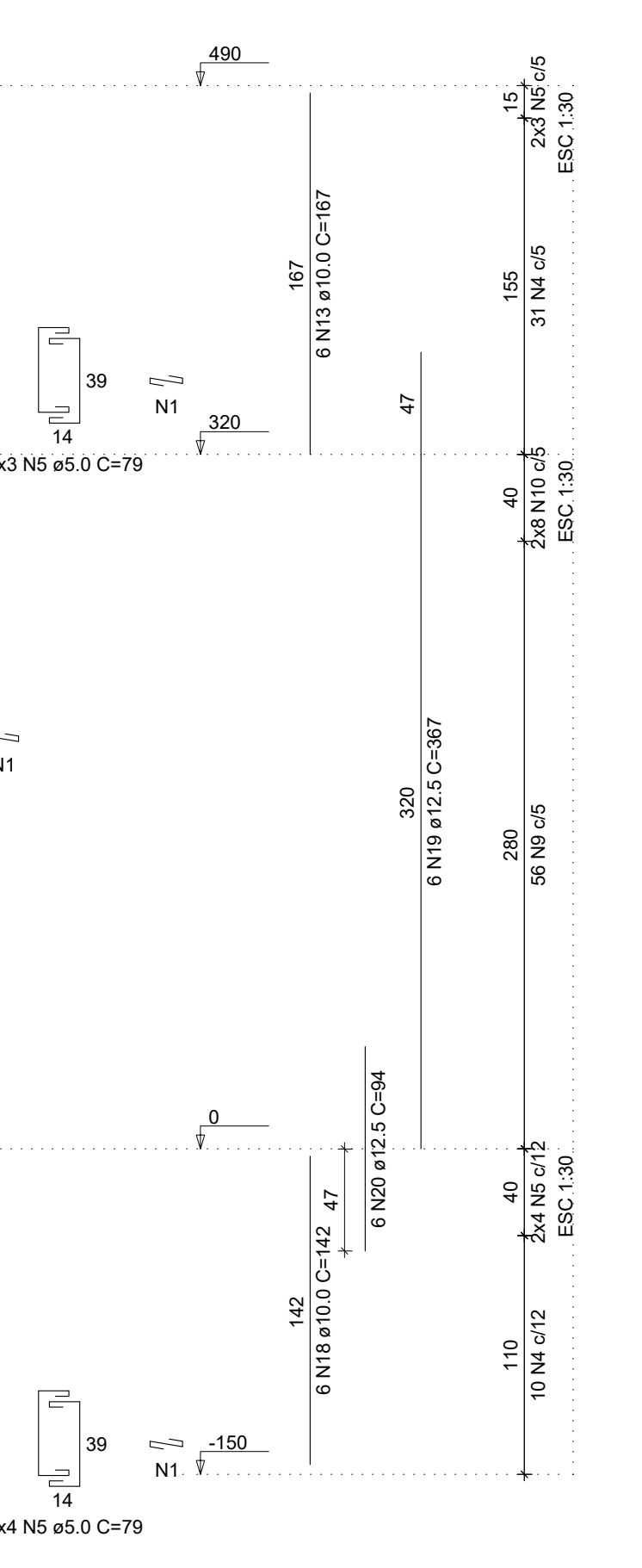
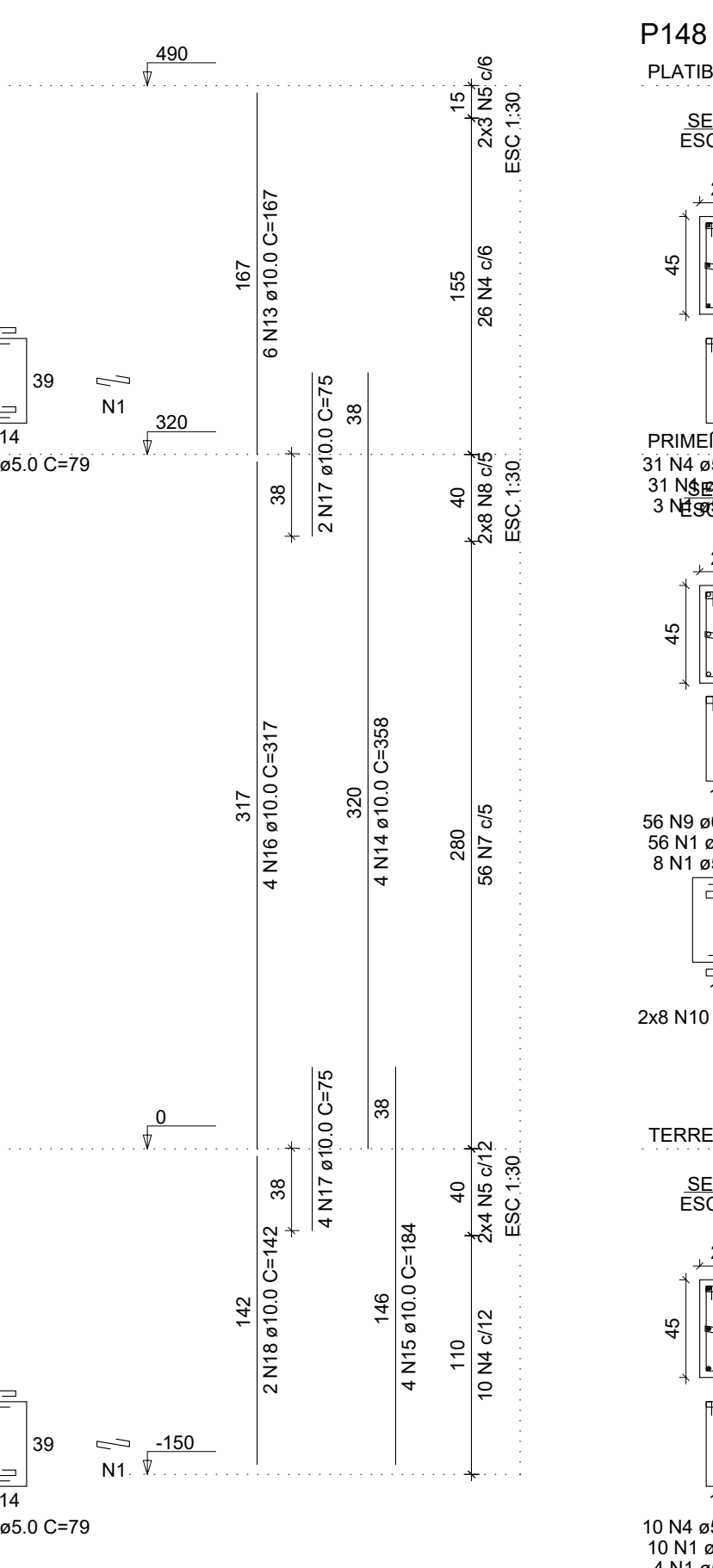
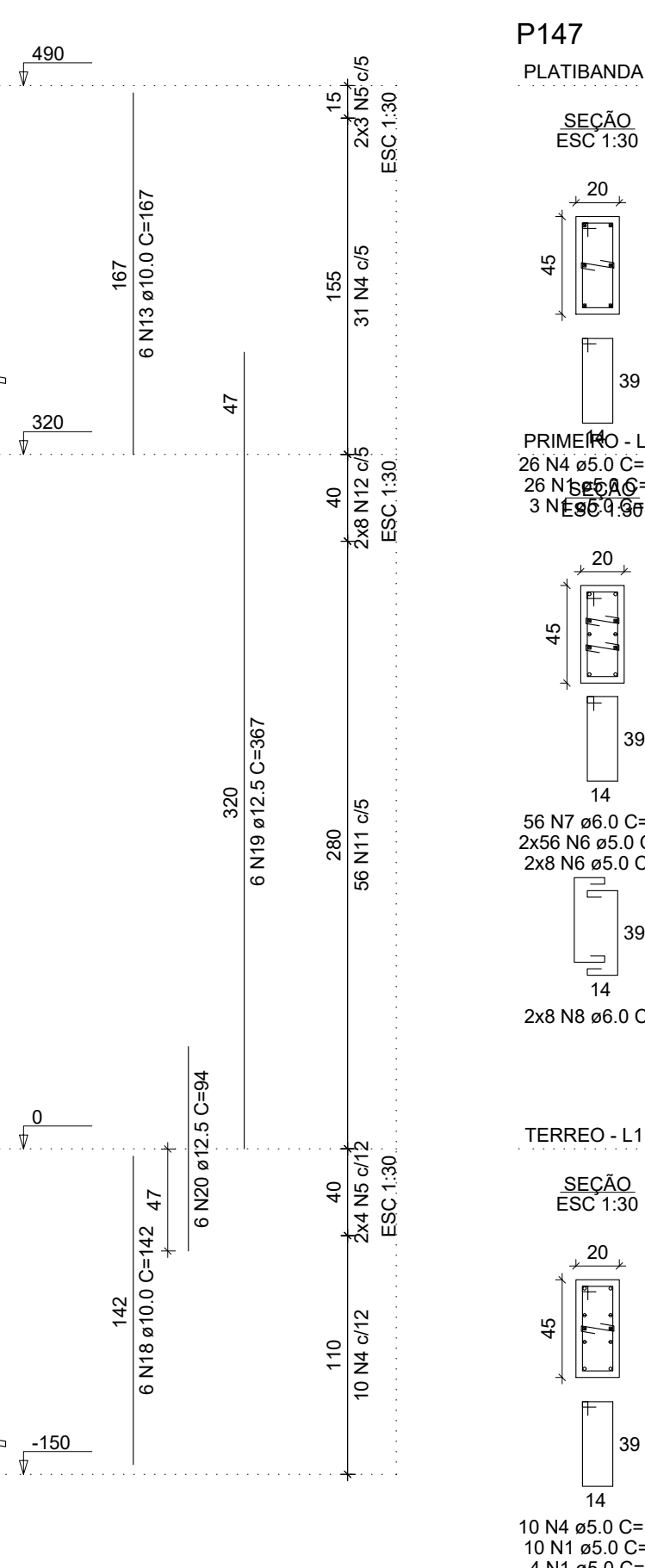
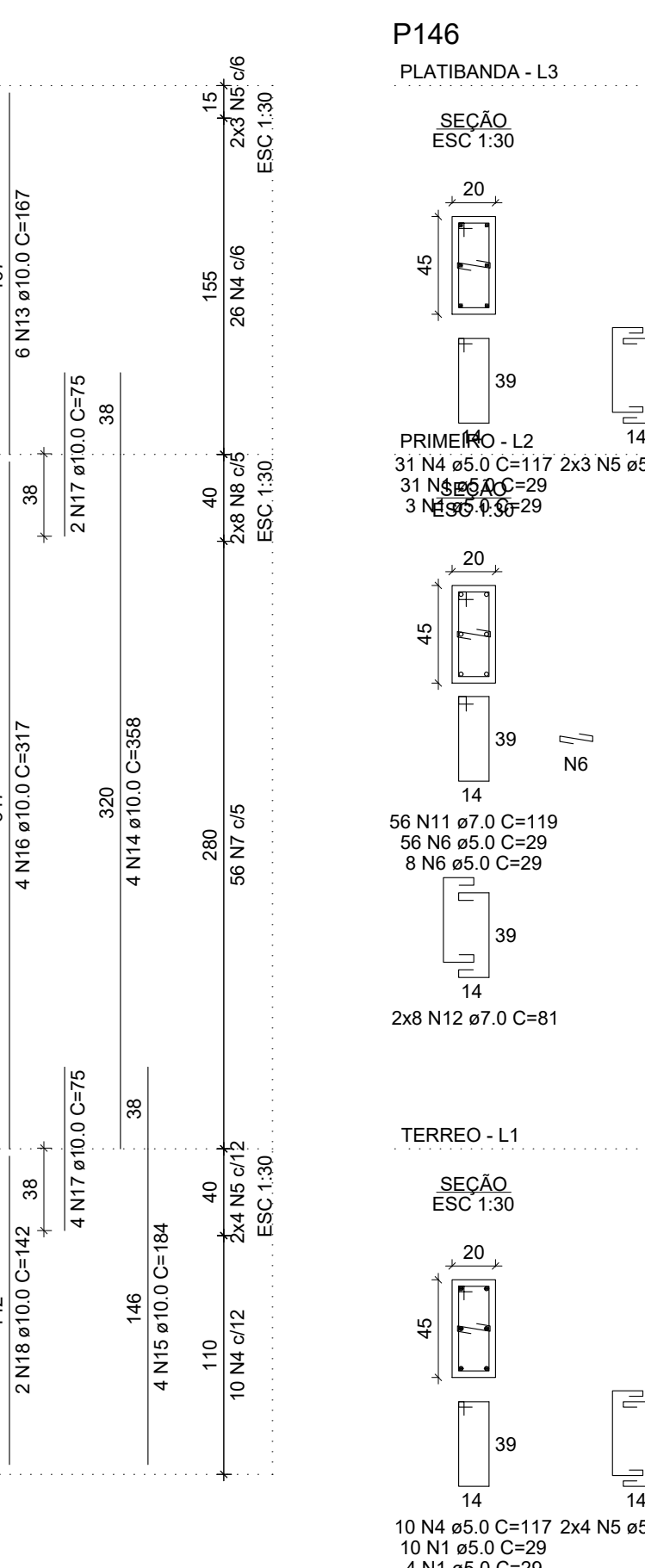
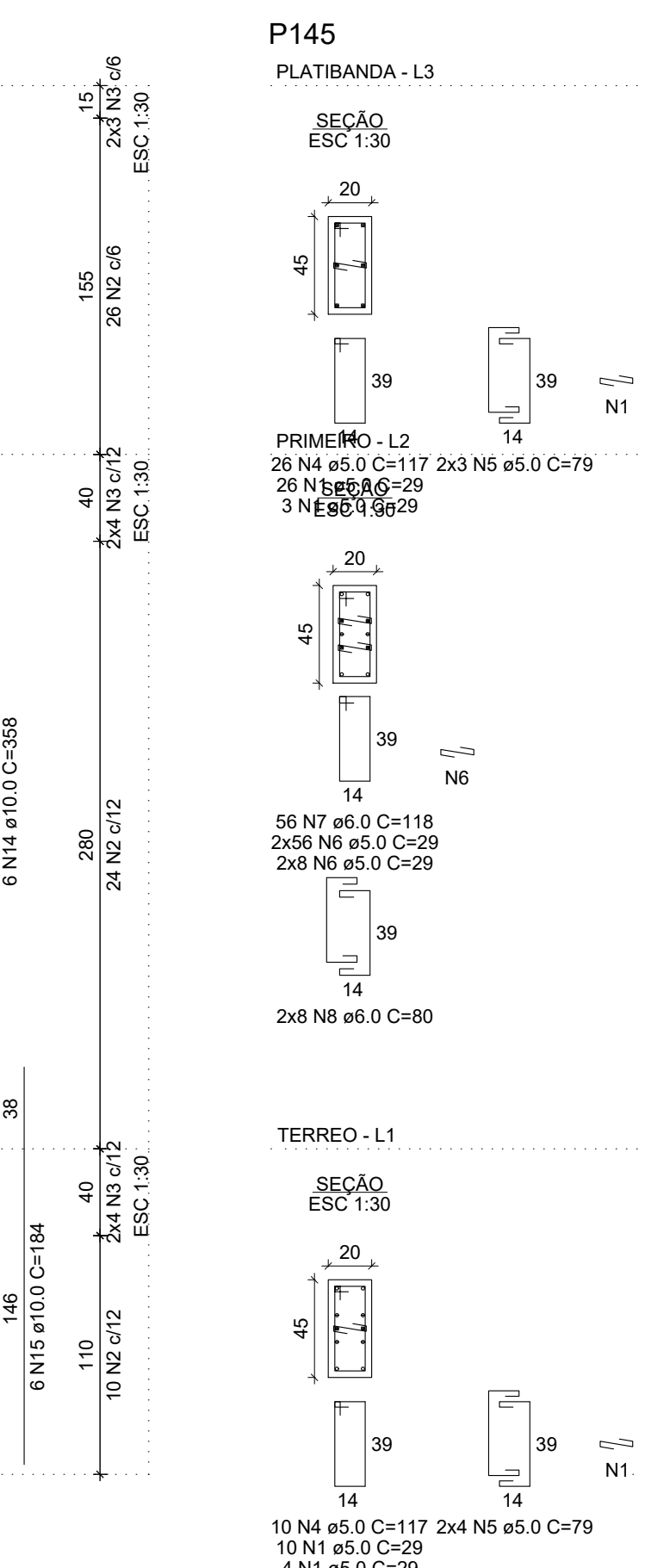
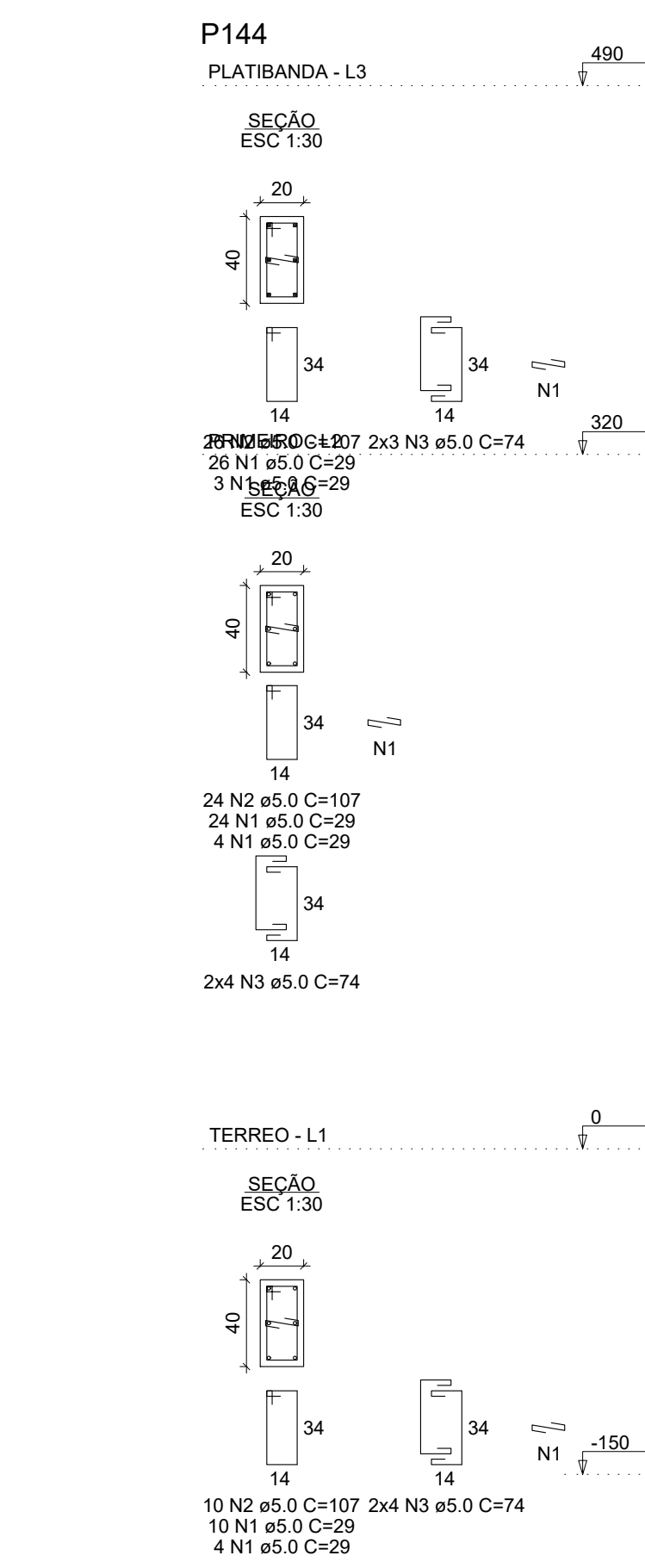
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
P136-L2	1	5.0	128	29	3712
P137-L2	1	5.0	104	107	11128
P138-L2	1	5.0	48	74	3552
P139-L2	1	5.0	179	77	13900
P140-L2	1	5.0	80	54	4320
P141-L2	1	5.0	38	317	12048
P142-L2	1	5.0	38	184	6962
P143-L2	1	5.0	2	142	284

RESUMO DO AÇO

ACO	DIAM (mm)	C TOTAL (m)	PESO + 0% (kg)
CA50	5.0	193.2	119.1
CA50	5.0	361.4	55.7
PESO TOTAL (kg)			119.1
CA50			55.7

Volume de concreto (C-25) = 2.19 m³
Área de forma = 38.07 m²



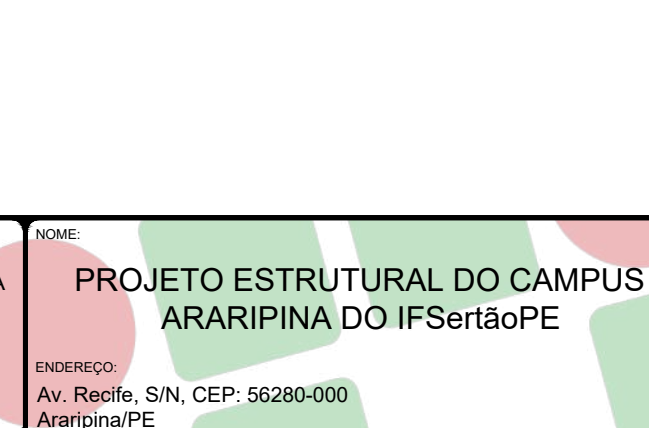
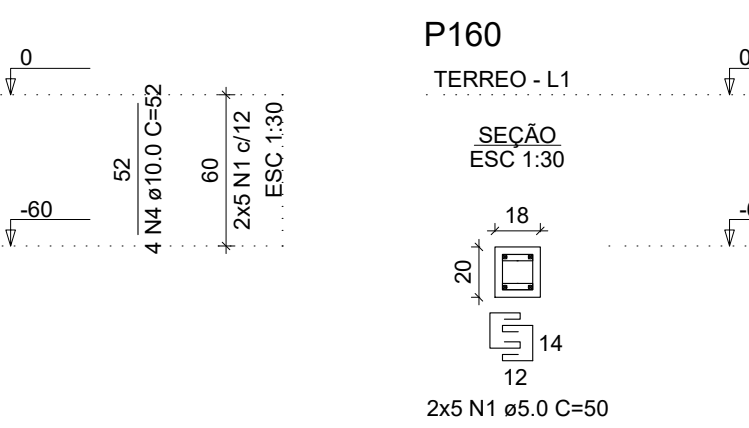
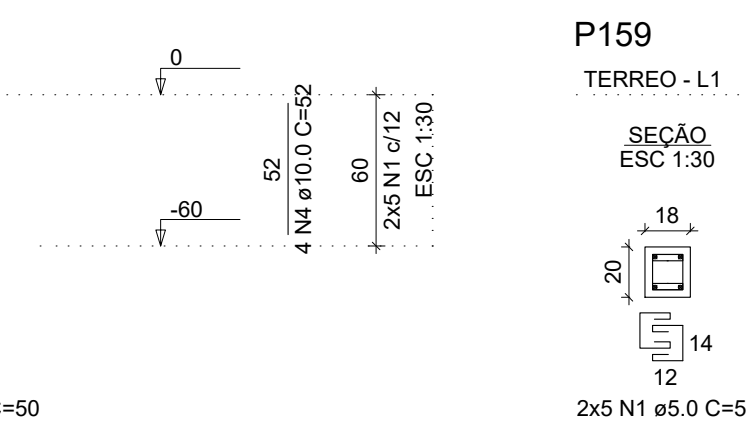
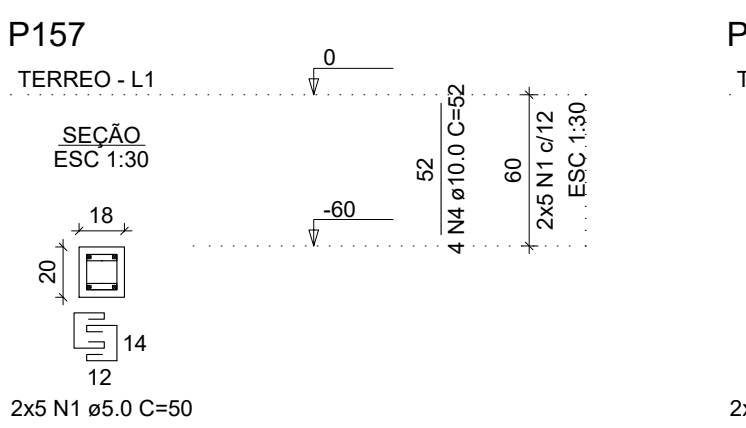
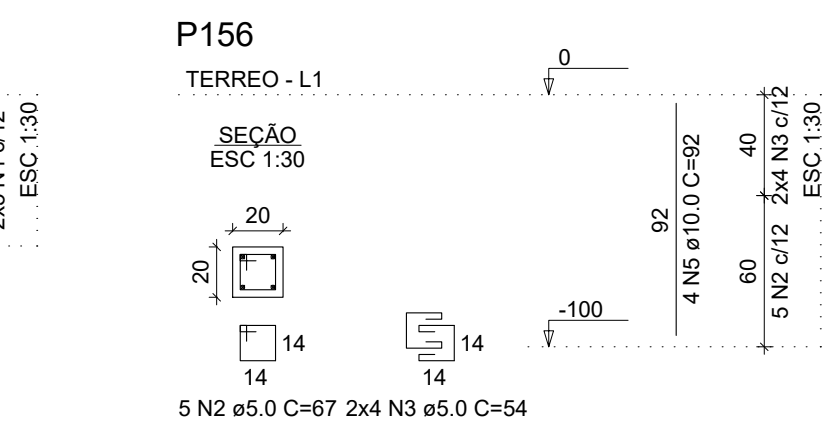
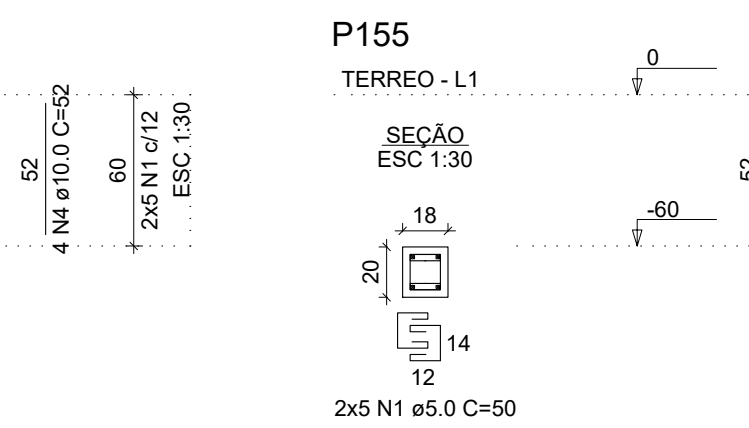
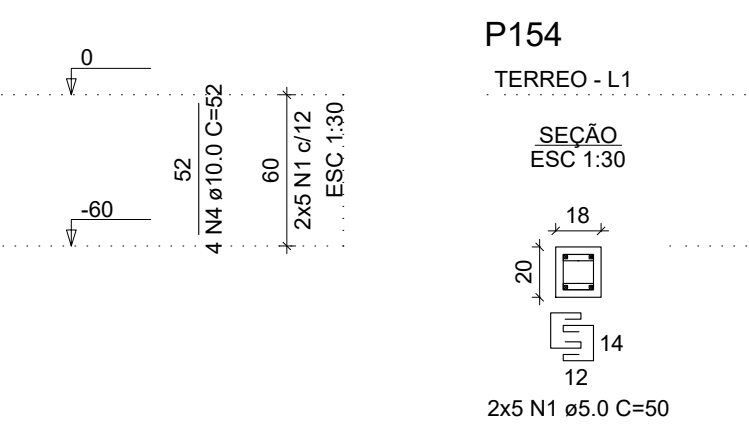
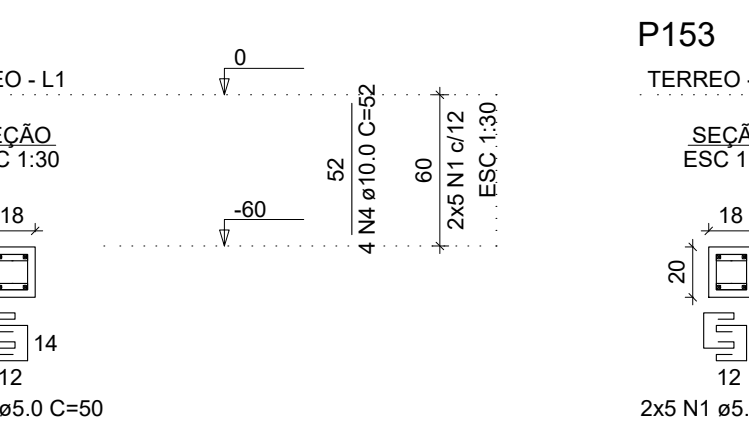
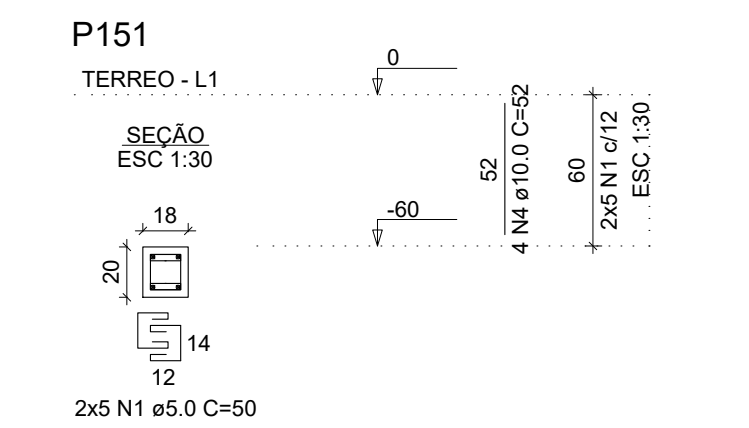
RELAÇÃO DO AÇO

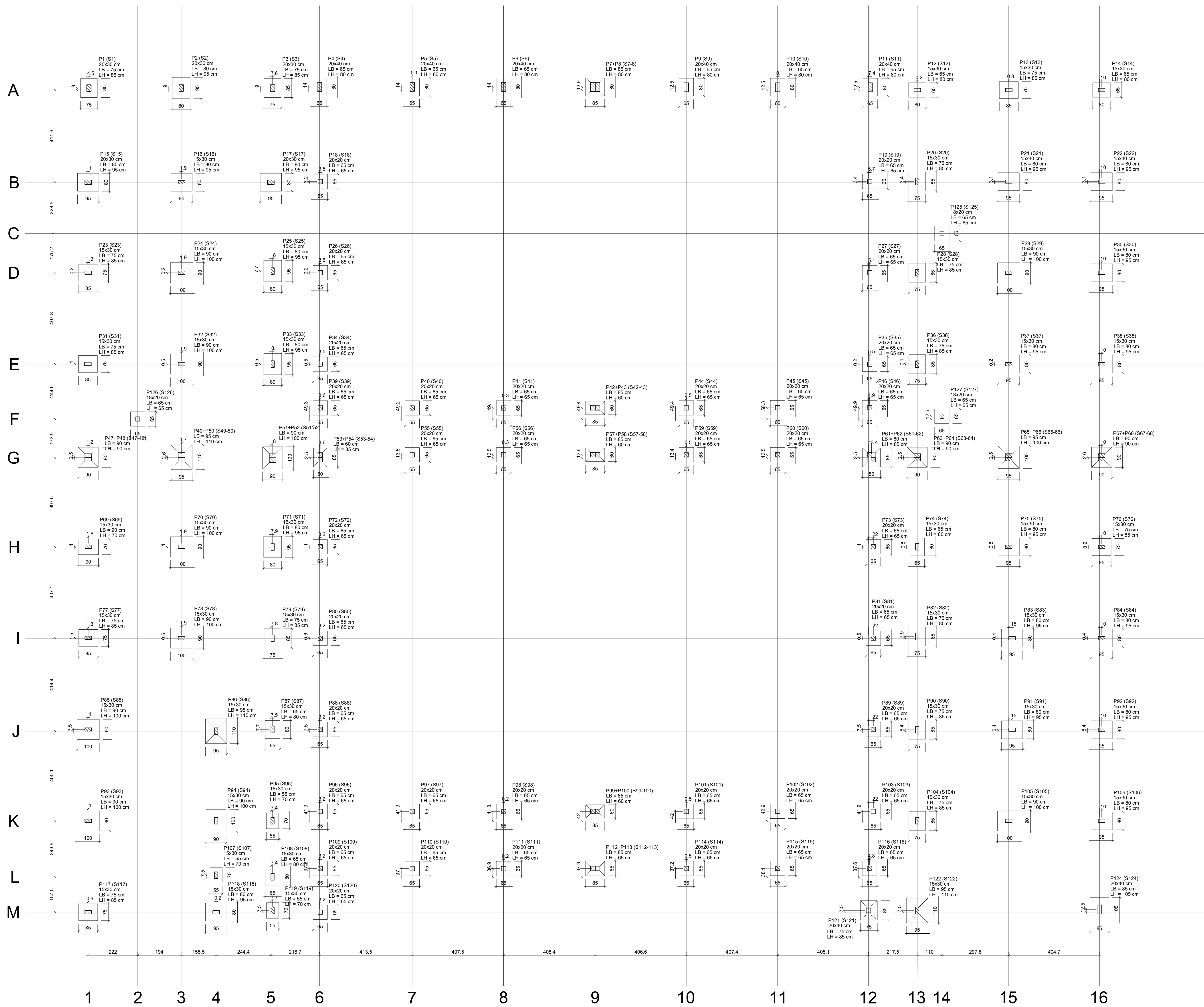
ACO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
P144-L3	1	5.0	478	29	13862
P145-L3	1	5.0	186	107	20072
P146-L3	1	5.0	72	74	5328
P147-L3	1	5.0	300	29	8700
P148-L3	1	5.0	56	79	4424
P149-L3	1	5.0	320	29	9280
P150-L3	1	5.0	112	118	13216
P151-L2	1	5.0	3	80	240
P152-L2	1	5.0	96	118	11232
P153-L2	1	5.0	96	118	11232
P154-L2	1	5.0	96	118	11232
P155-L2	1	5.0	96	118	11232
P156-L2	1	5.0	96	118	11232
P157-L2	1	5.0	96	118	11232
P158-L2	1	5.0	96	118	11232
P159-L2	1	5.0	96	118	11232
P160-L2	1	5.0	96	118	11232

RESUMO DO AÇO

ACO	DIAM (mm)	C TOTAL (m)	PESO + 0% (kg)
CA50	5.0	78.9	19.3
CA50	5.0	268.1	166.3
CA50	5.0	53.3	33.3
CA50	5.0	718.8	450.8
CA50	5.0	157.8	98.8
CA50	5.0	78.9	24
PESO TOTAL (kg)			746.5
CA50			450.8
CA50			33.3
CA50			166.3
CA50			98.8
CA50			24

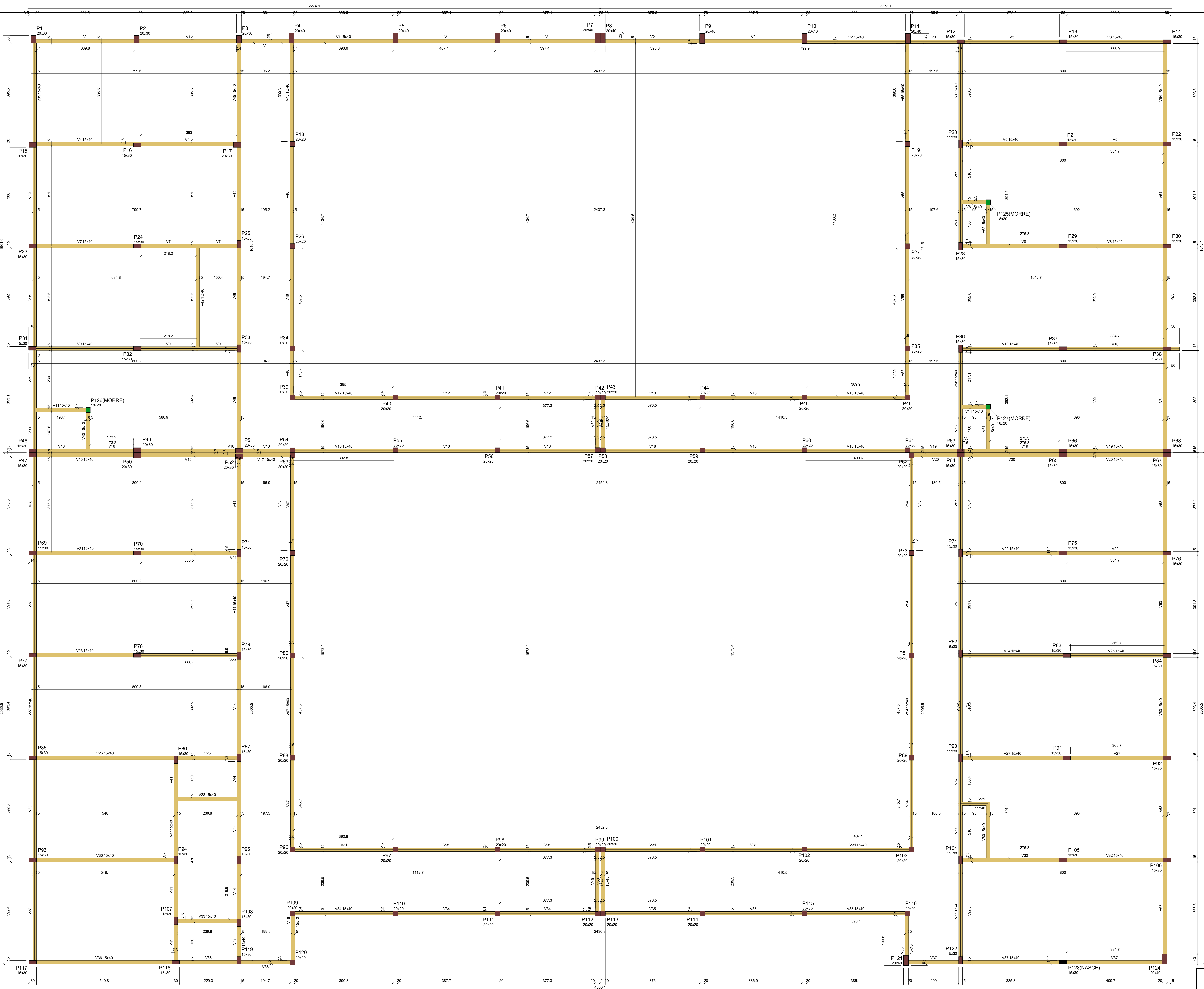
Volume de concreto (C-25) = 3.84 m³
Área de forma = 56.32 m²





Planta de locação
escala 1:75

Pilar	Fundação	
	Nome	Seção
P1	20x30	S1
P2	20x30	S2
P3	20x30	S3
P4	20x40	S4
P5	20x40	S5
P6	20x40	S6
P7	20x40	S7
P8	20x40	S8
P9	20x40	S9
P10	20x40	S10
P11	20x40	S11
P12	20x40	S12
P13	20x40	S13
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P16	20x40	S16
P17	20x40	S17
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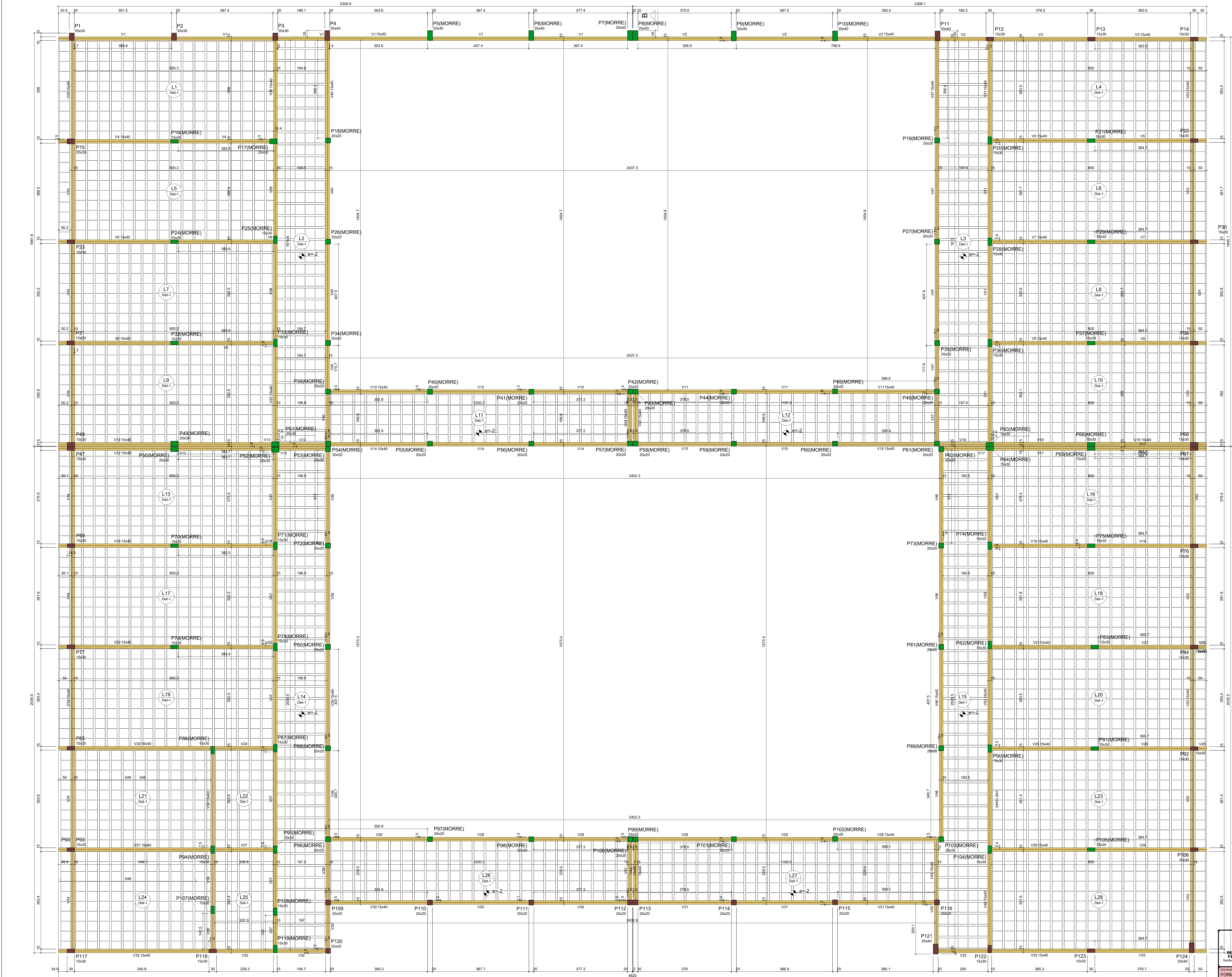
Características dos materiais		
fck (MPa)	Ecs (MPa)	Abatimento (cm)
25	24150	5,00

Dimensão máxima do agregado = 19 mm

Legenda dos pilares	
	Pilar que morre
	Pilar que passa
	Pilar que nasce
	Pilar com mudança de seção

Legenda das vigas e paredes	
	Viga

Forma do pavimento TERREO
escala 1:50

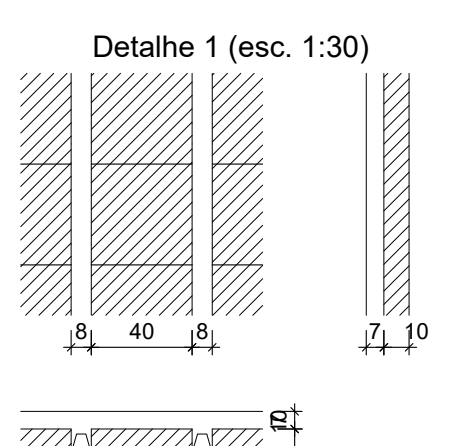


Lajes						
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kN/m²)	Sobrecarga (kN/m²)
L1	Pré-moldada	17	0	320	2.18	2.27
L2	Pré-moldada	17	-2	318	2.18	1.82
L3	Pré-moldada	17	-2	318	2.18	2.27
L4	Pré-moldada	17	0	320	2.18	1.82
L5	Pré-moldada	17	0	320	2.18	2.27
L6	Pré-moldada	17	0	320	2.18	1.82
L7	Pré-moldada	17	0	320	2.18	1.82
L8	Pré-moldada	17	0	320	2.18	1.82
L9	Pré-moldada	17	0	320	2.18	1.82
L10	Pré-moldada	17	0	320	2.18	1.82
L11	Pré-moldada	17	-2	318	2.18	1.82
L12	Pré-moldada	17	-2	318	2.18	1.82
L13	Pré-moldada	17	0	320	2.18	1.82
L14	Pré-moldada	17	-2	318	2.18	1.82
L15	Pré-moldada	17	-2	318	2.18	1.82
L16	Pré-moldada	17	0	320	2.18	1.82
L17	Pré-moldada	17	0	320	2.18	1.82
L18	Pré-moldada	17	0	320	2.18	1.82
L19	Pré-moldada	17	0	320	2.18	1.82
L20	Pré-moldada	17	0	320	2.18	1.82
L21	Pré-moldada	17	0	320	2.18	1.82
L22	Pré-moldada	17	0	320	2.18	1.82
L23	Pré-moldada	17	0	320	2.18	1.82
L24	Pré-moldada	17	0	320	2.18	1.82
L25	Pré-moldada	17	0	320	2.18	1.82
L26	Pré-moldada	17	-2	318	2.18	2.27
L27	Pré-moldada	17	-2	318	2.18	1.82
L28	Pré-moldada	17	0	320	2.18	1.82

Características dos materiais		
fck (MPa)	Ecs (MPa)	Abatimento (cm)
25	24.500	5.00

Dimensão máxima do agregado = 19 mm

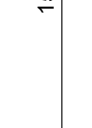
Legenda dos pilares	
■	Pilar que morre
■	Pilar que passa



Blocos de enchimento				
Detalhe	Tipo	Nome	Dimensões (cm)	Quantidade
1	EPS Unidirecional	B10140/40	10 40 40	4501

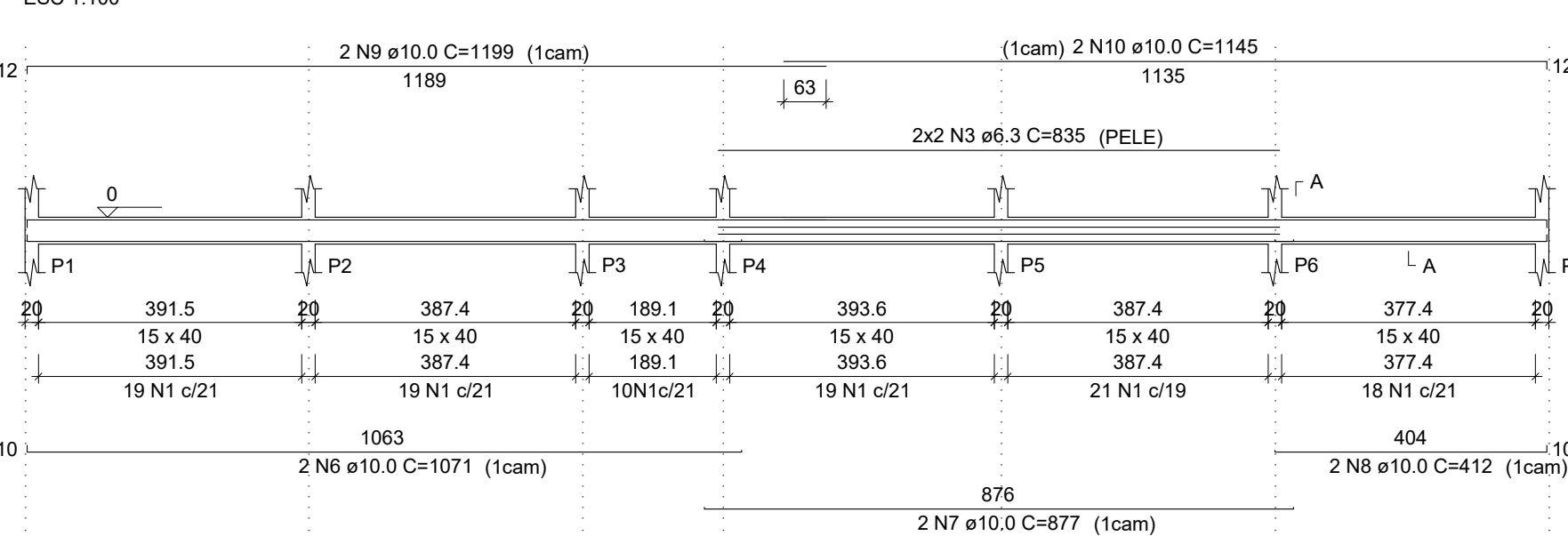
Legenda das vigas e paredes	
■	Viga

Forma do pavimento PRIMEIRO
escala 1:50

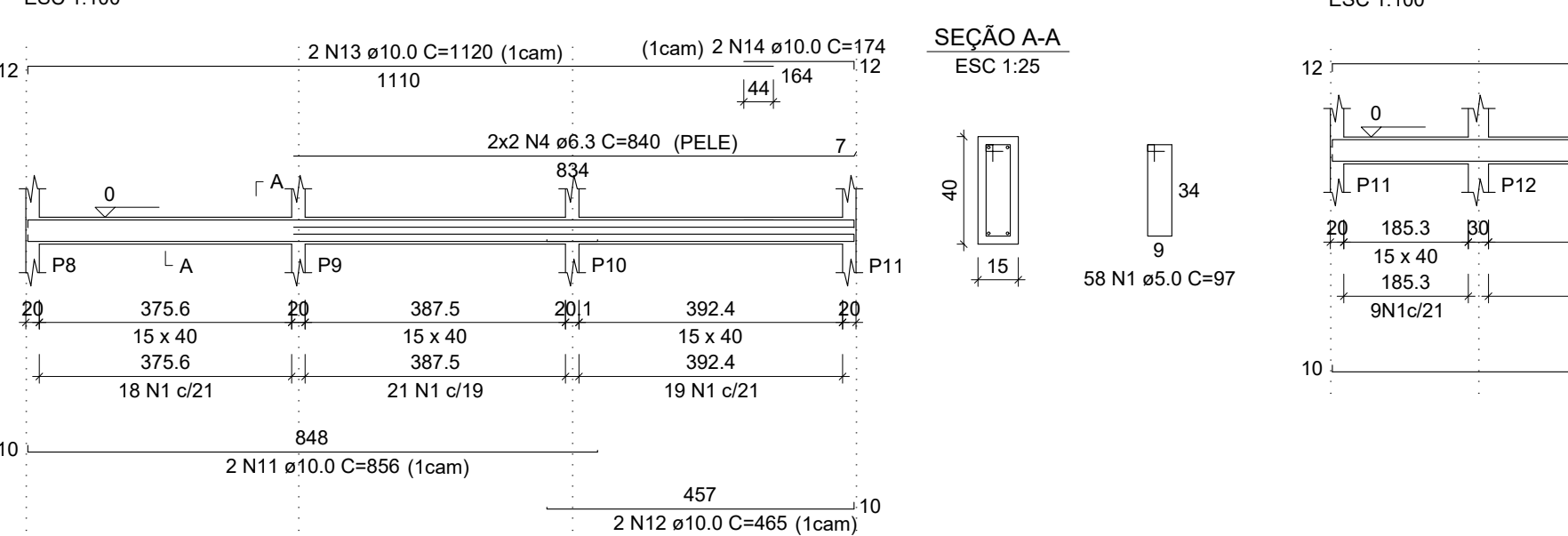


escala 1:50

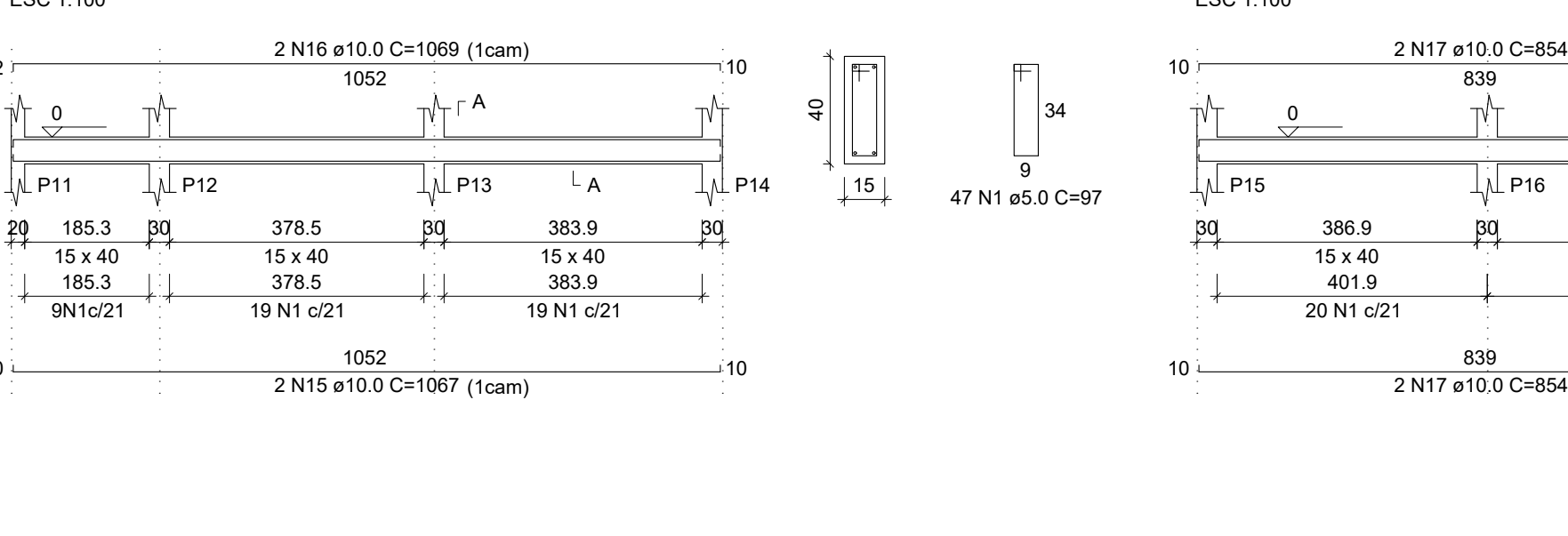
V1 (15 x 40)



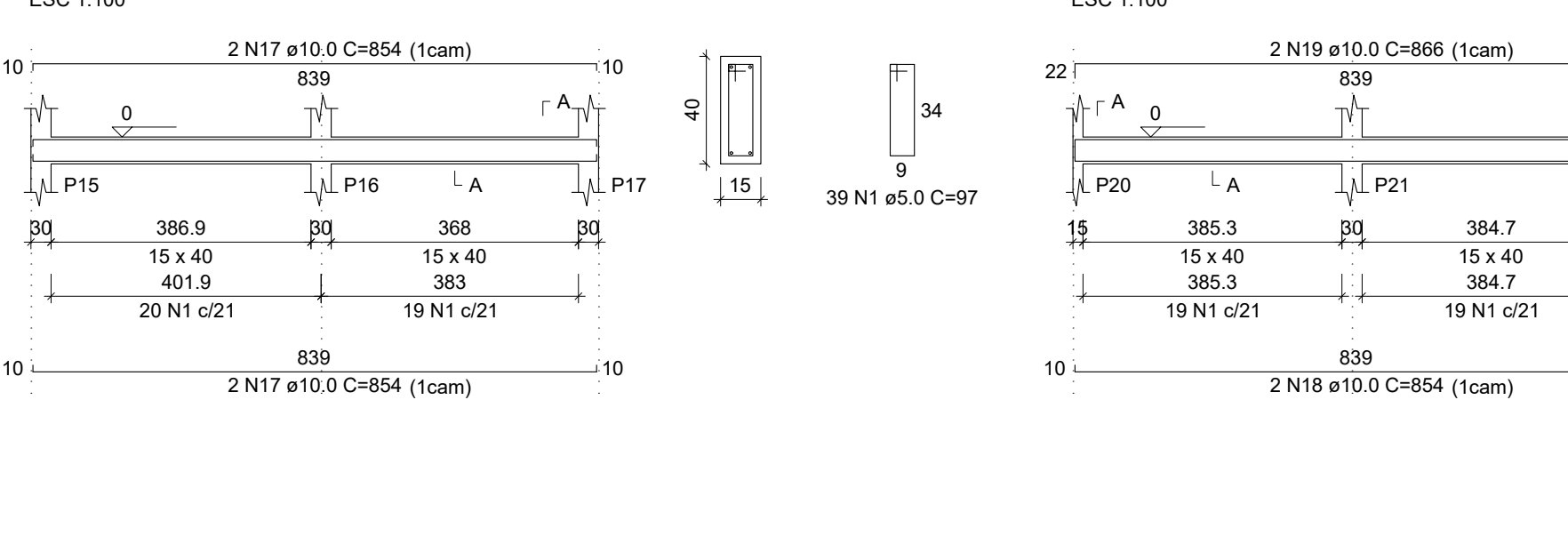
V2 (15 x 40)



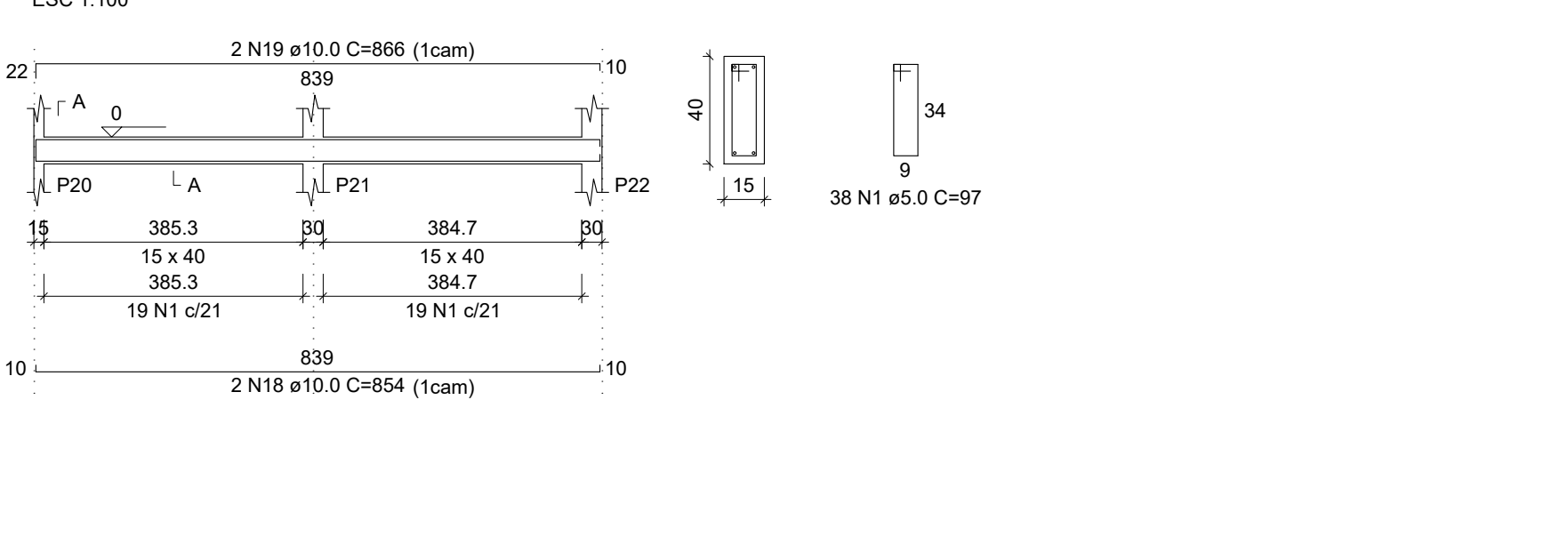
V3 (15 x 40)



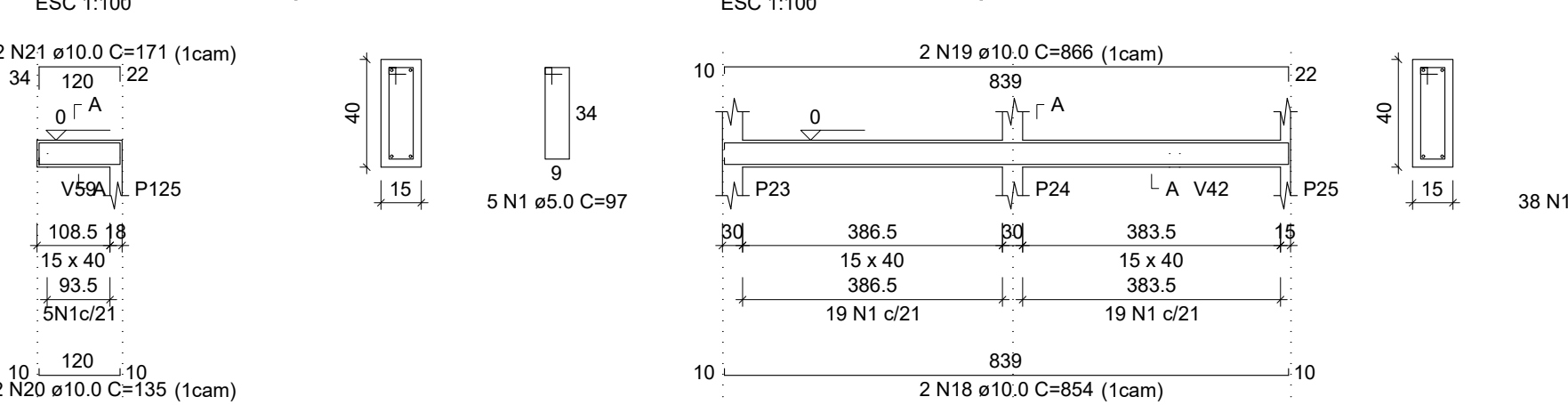
V4 (15 x 40)



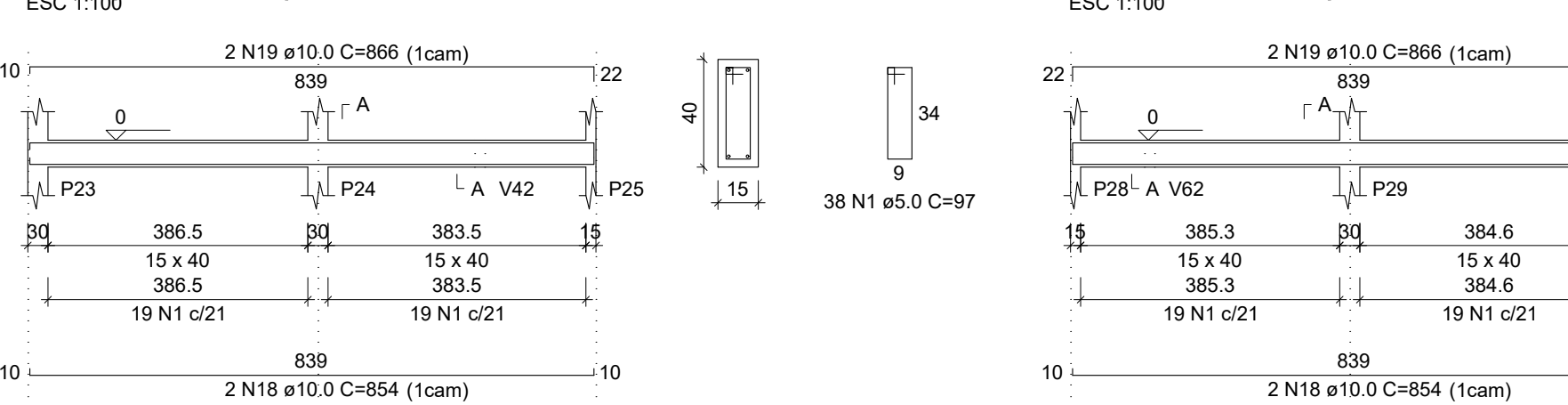
V5 (15 x 40)



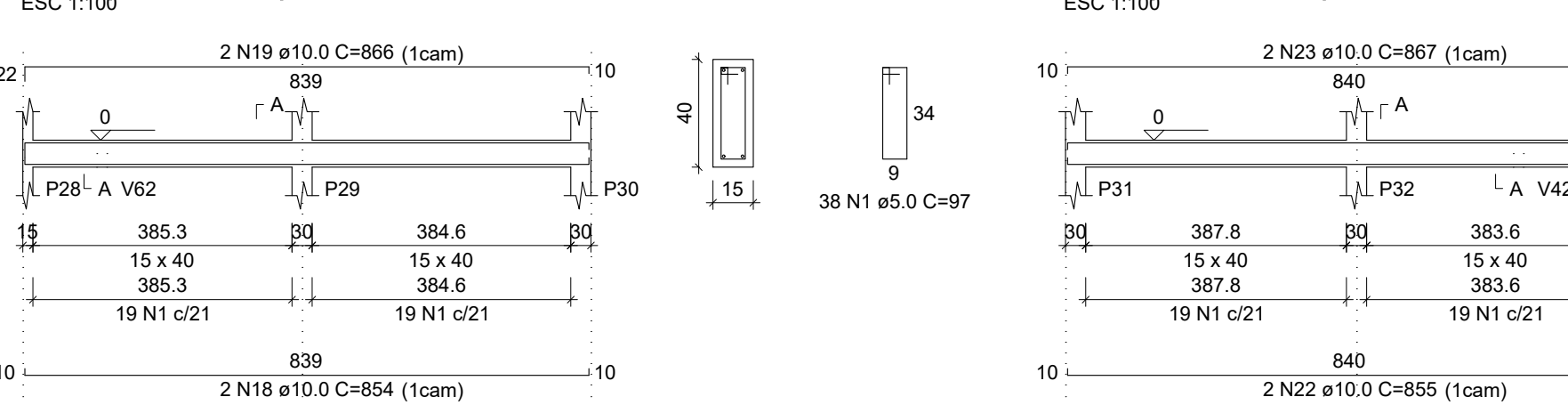
V6 (15 x 40)



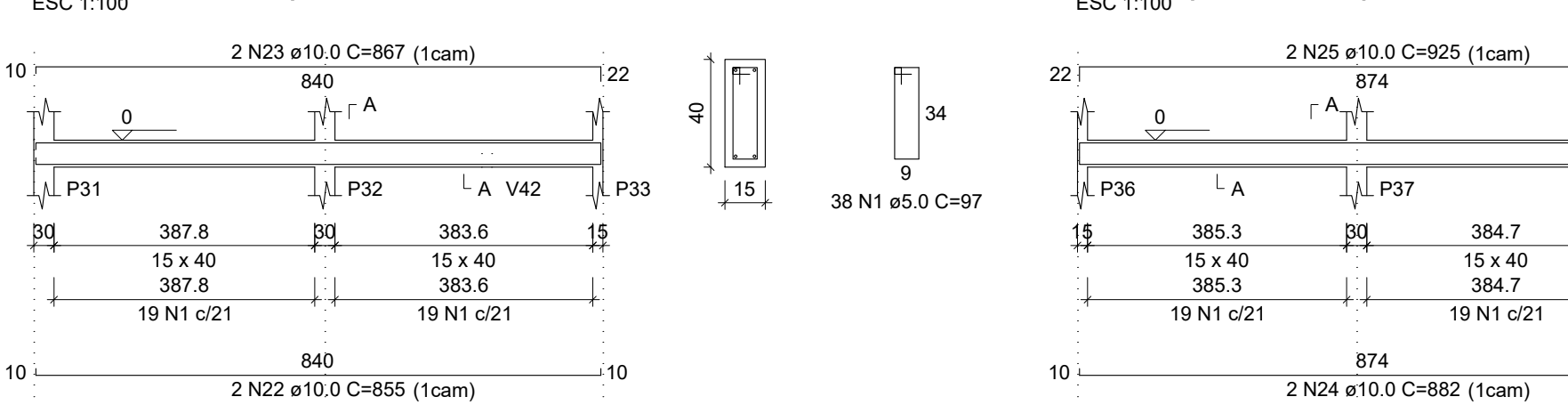
V7 (15 x 40)



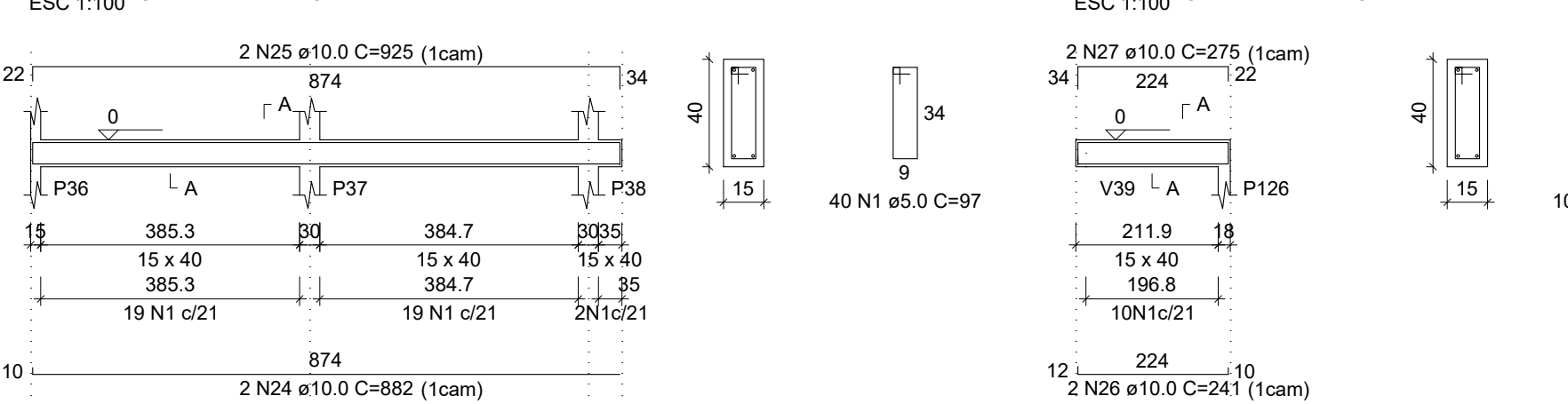
V8 (15 x 40)



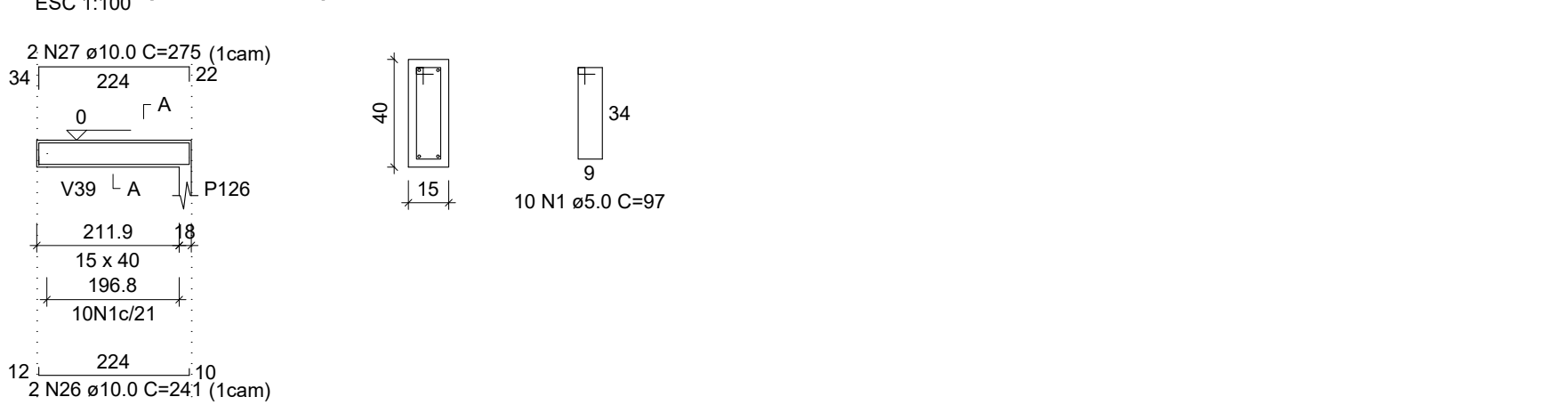
V9 (15 x 40)



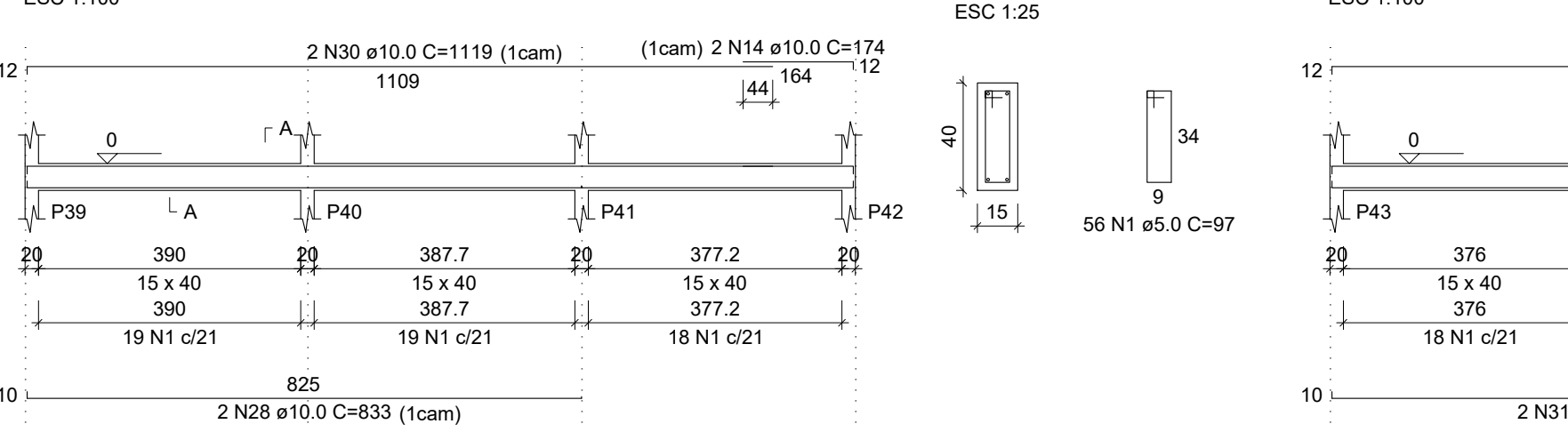
V10 (15 x 40)



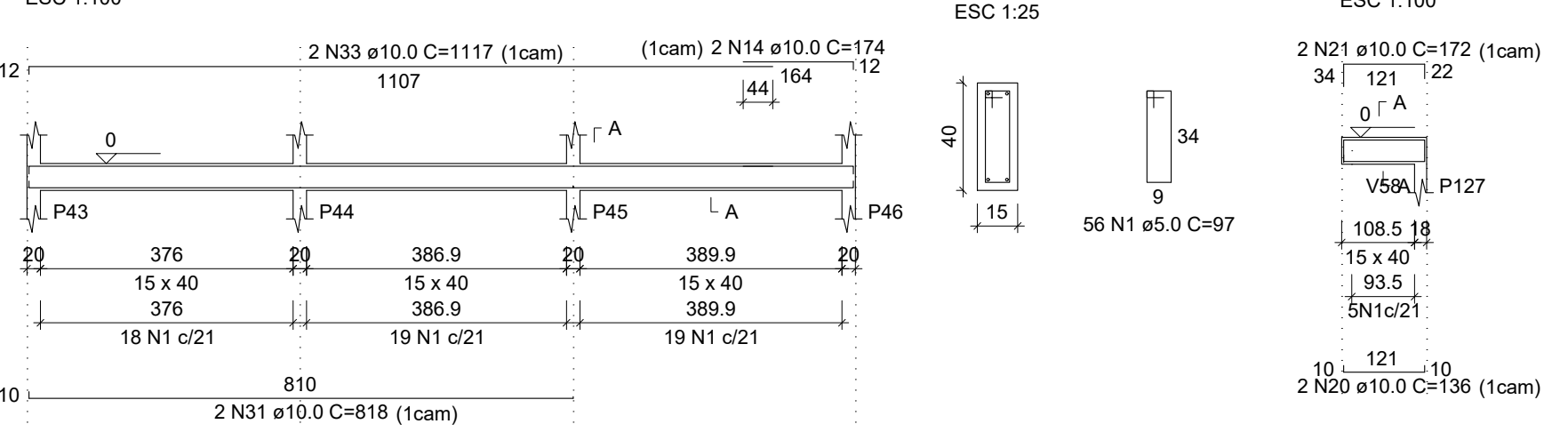
V11 (15 x 40)



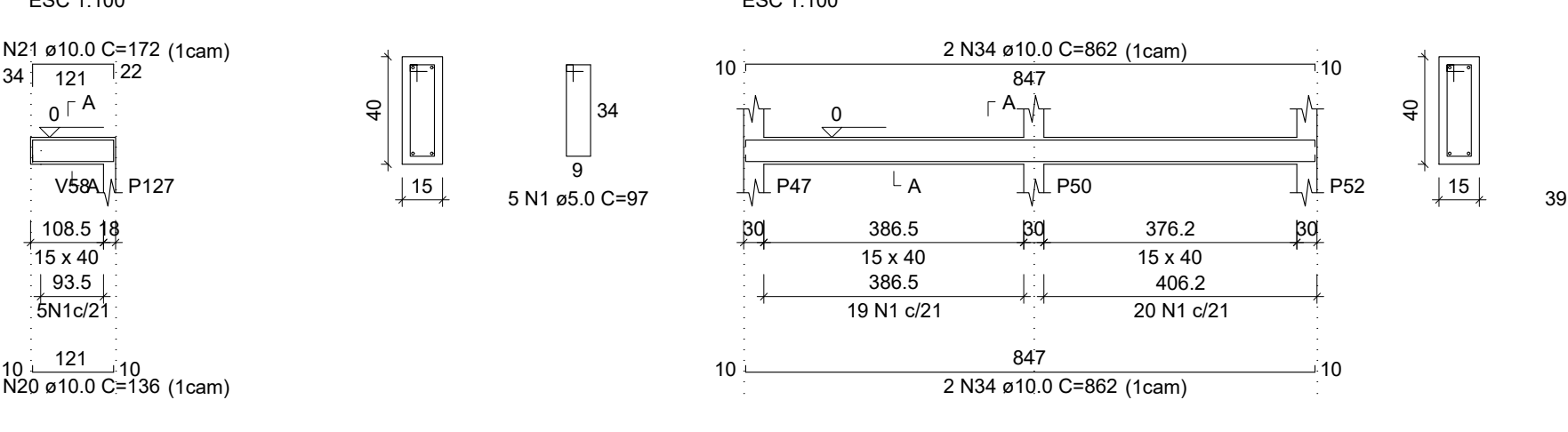
V12 (15 x 40)



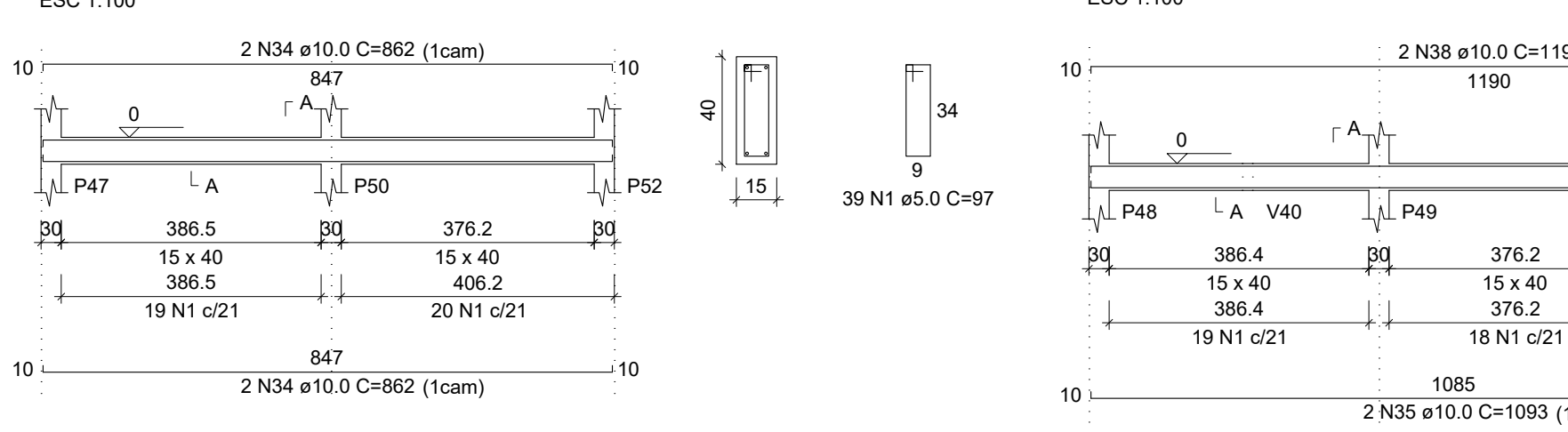
V13 (15 x 40)



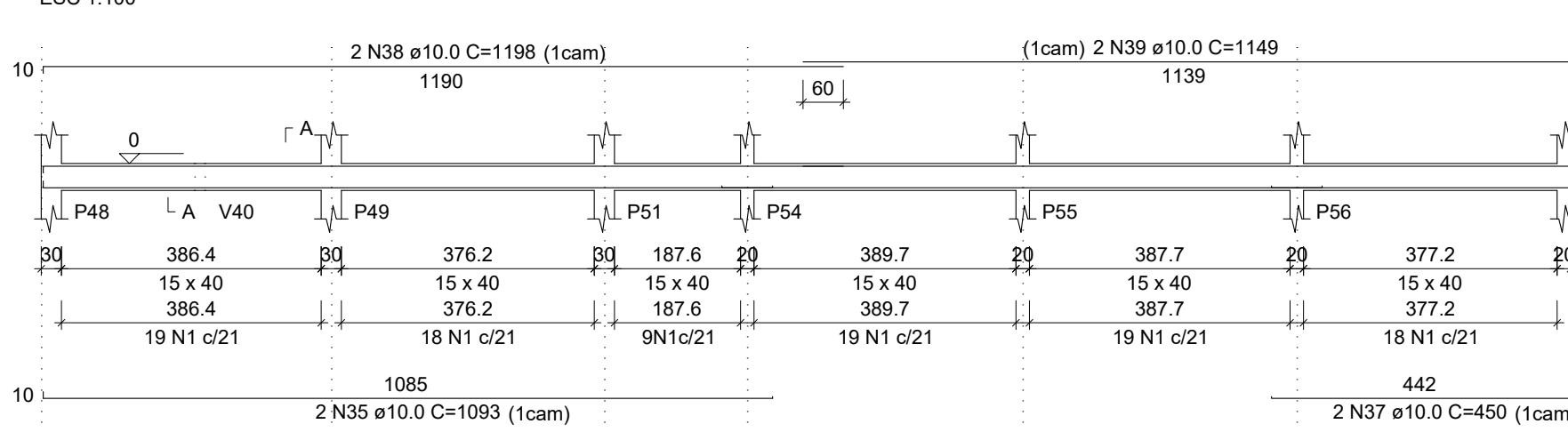
V14 (15 x 40)



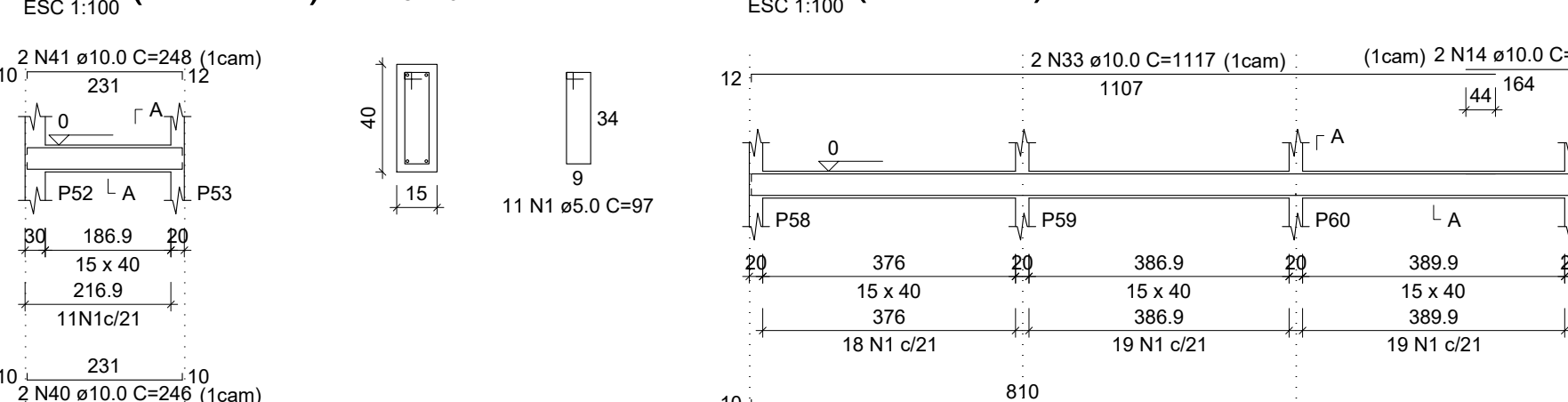
V15 (15 x 40)



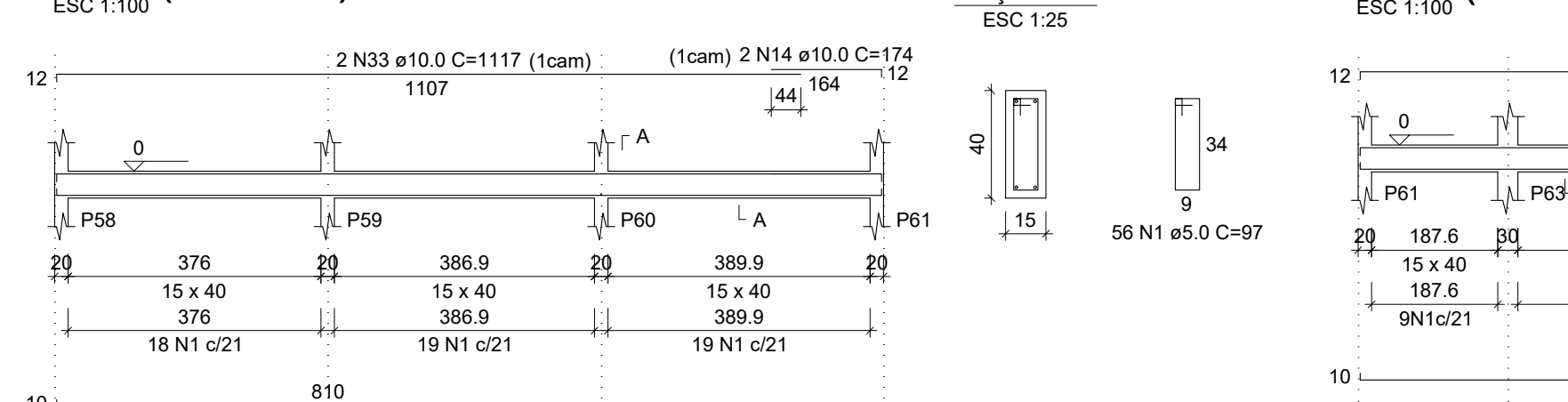
V16 (15 x 40)



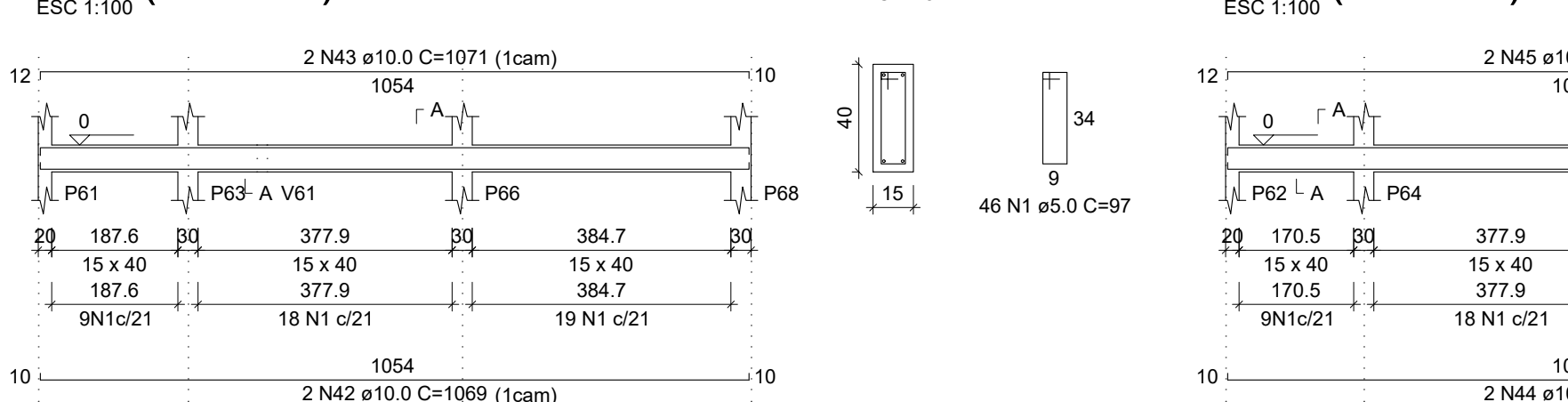
V17 (15 x 40)



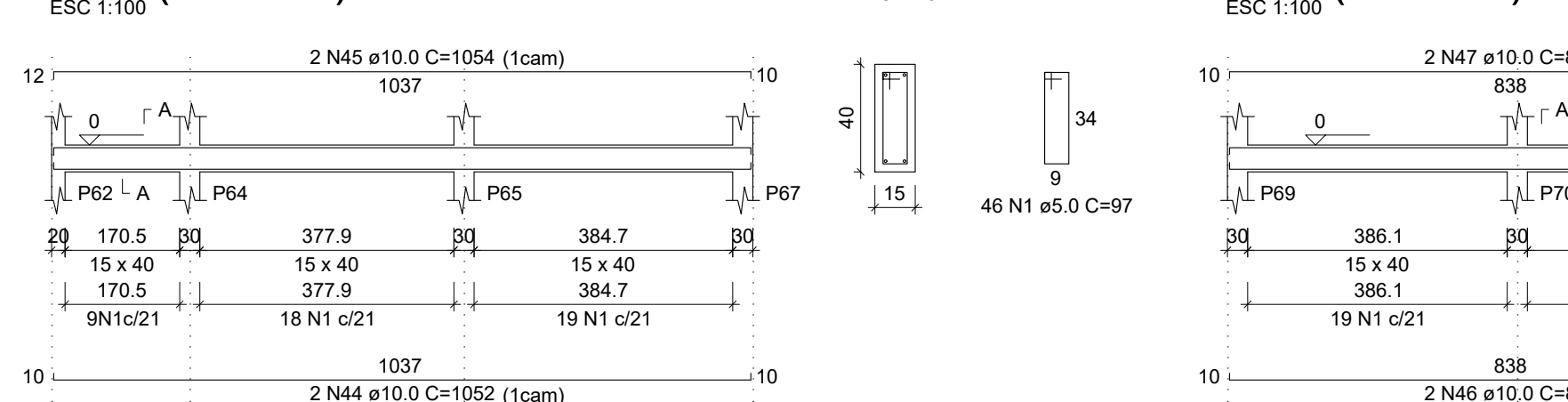
V18 (15 x 40)



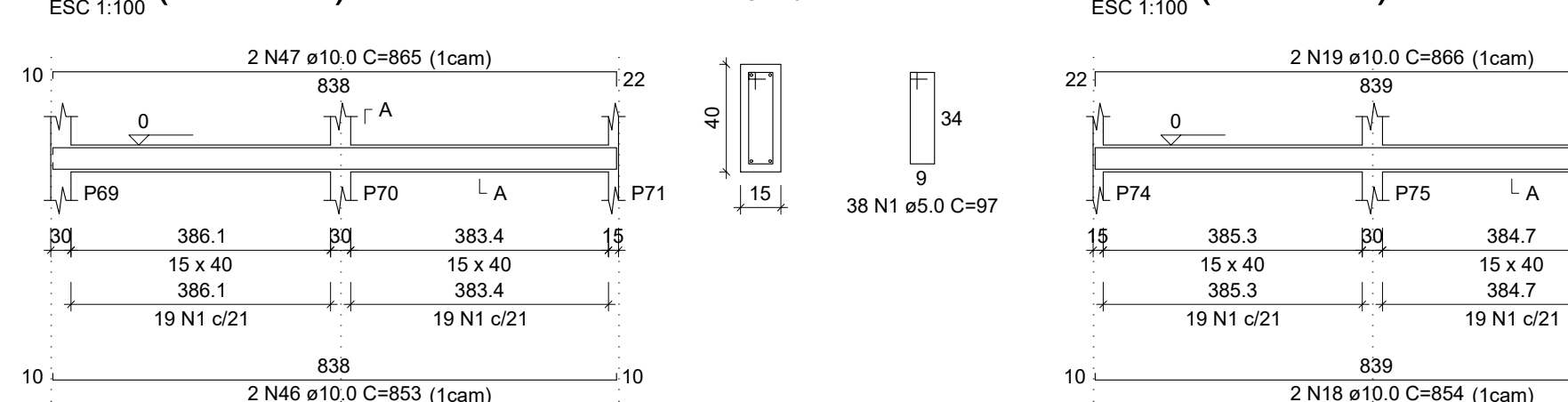
V19 (15 x 40)



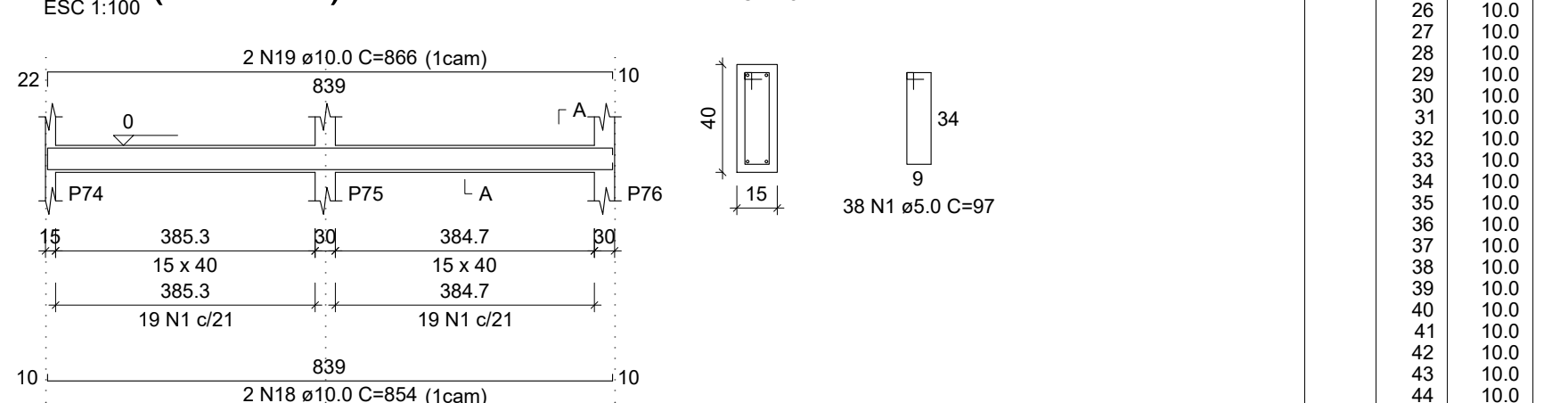
V20 (15 x 40)



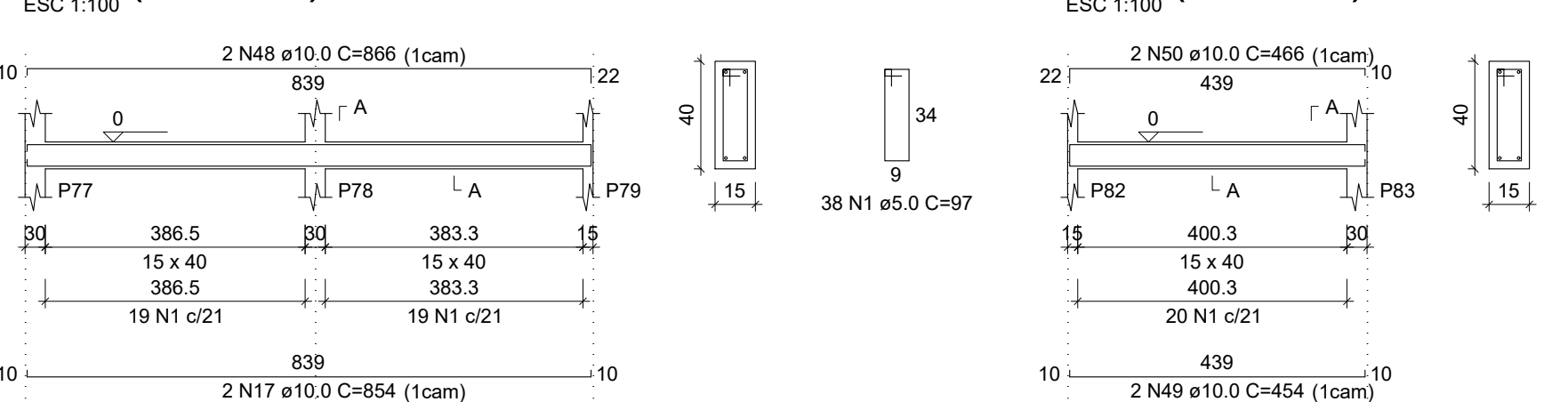
V21 (15 x 40)



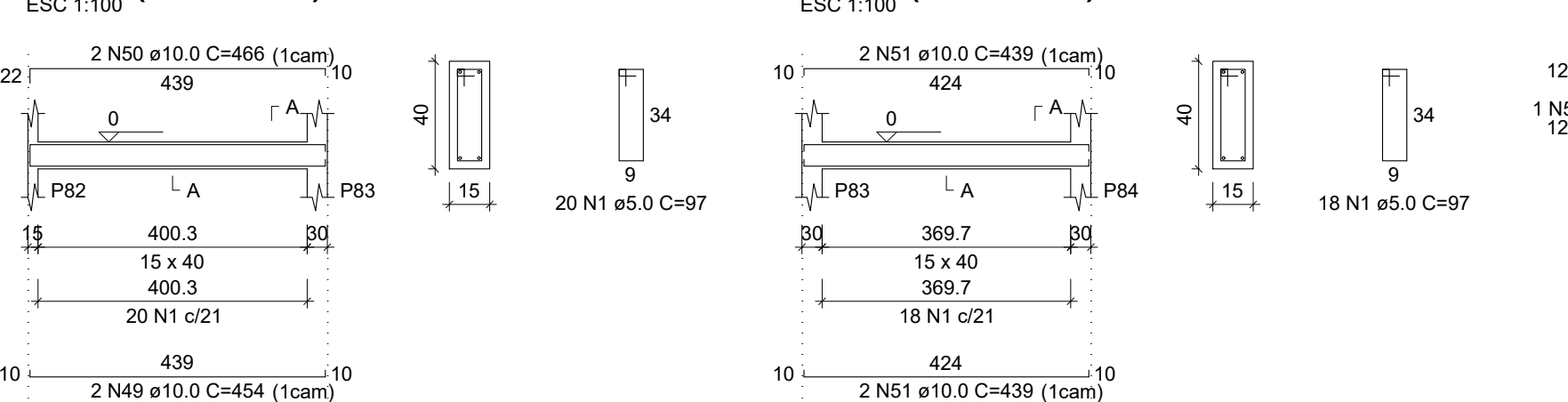
V22 (15 x 40)



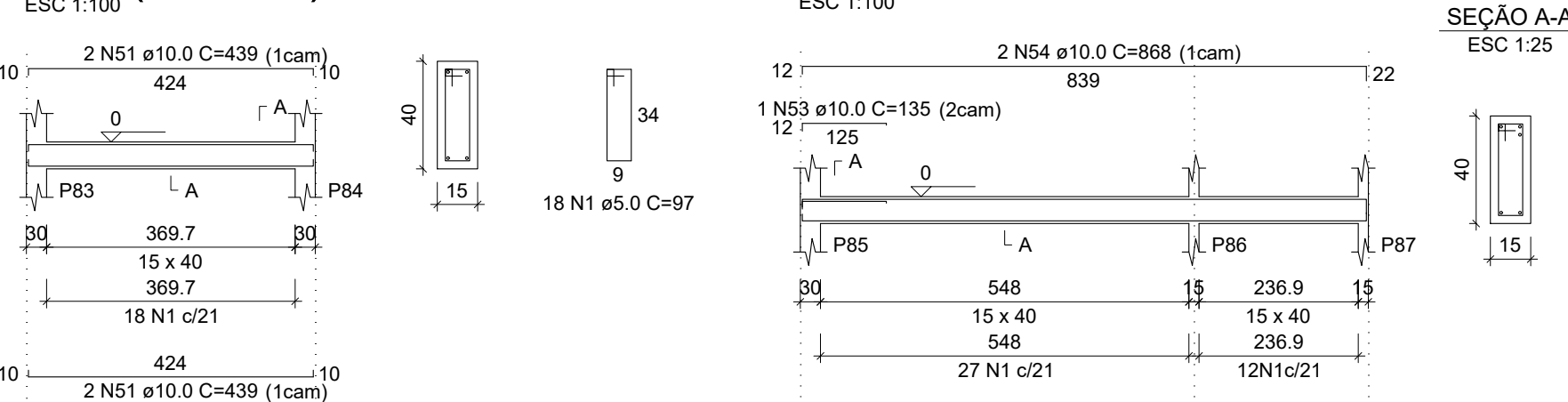
V23 (15 x 40)



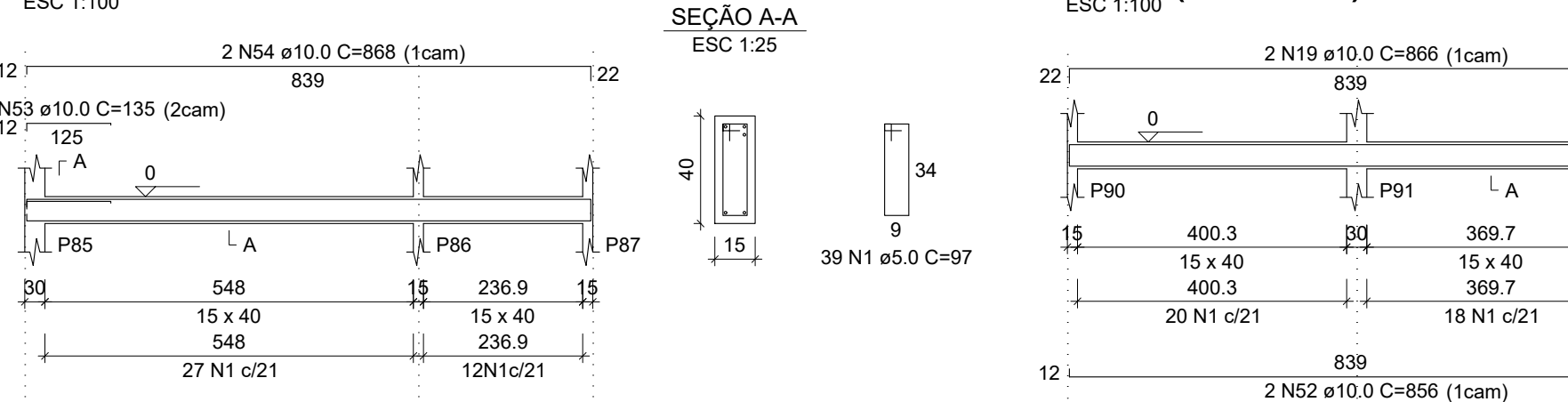
V24 (15 x 40)



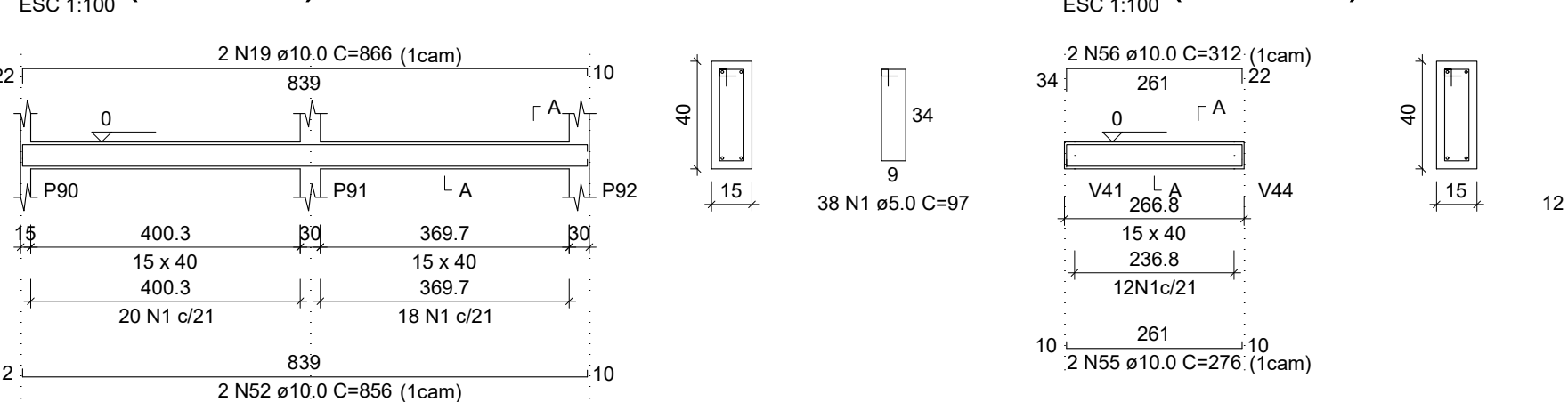
V25 (15 x 40)



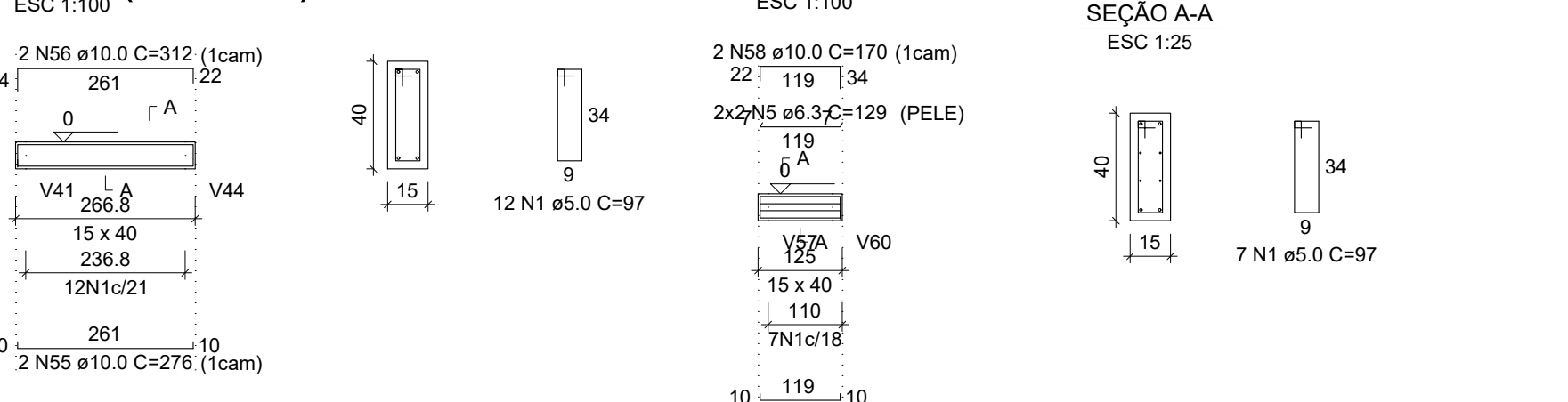
V26 (15 x 40)



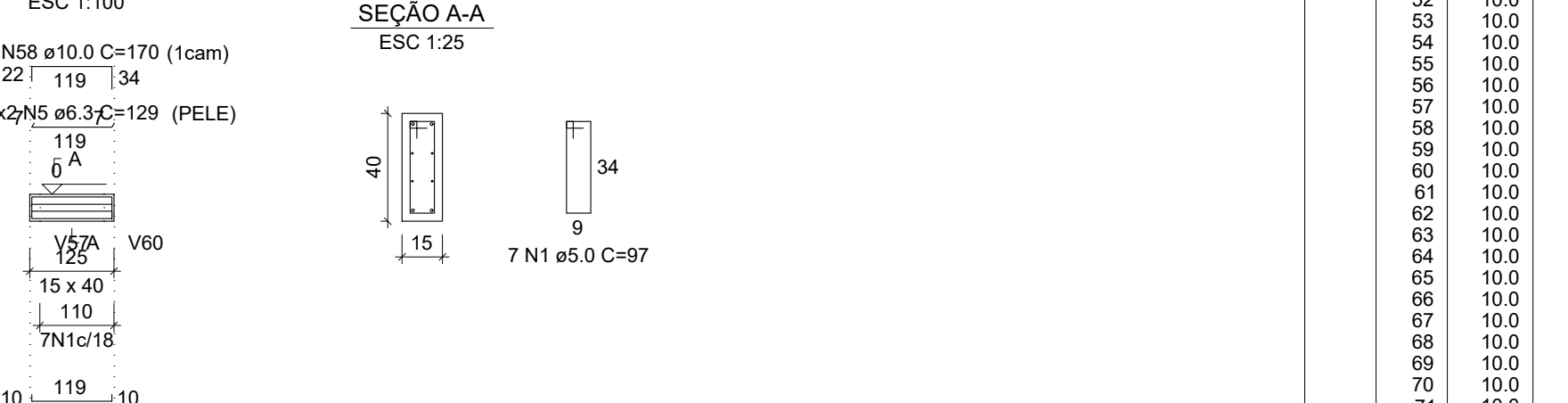
V27 (15 x 40)



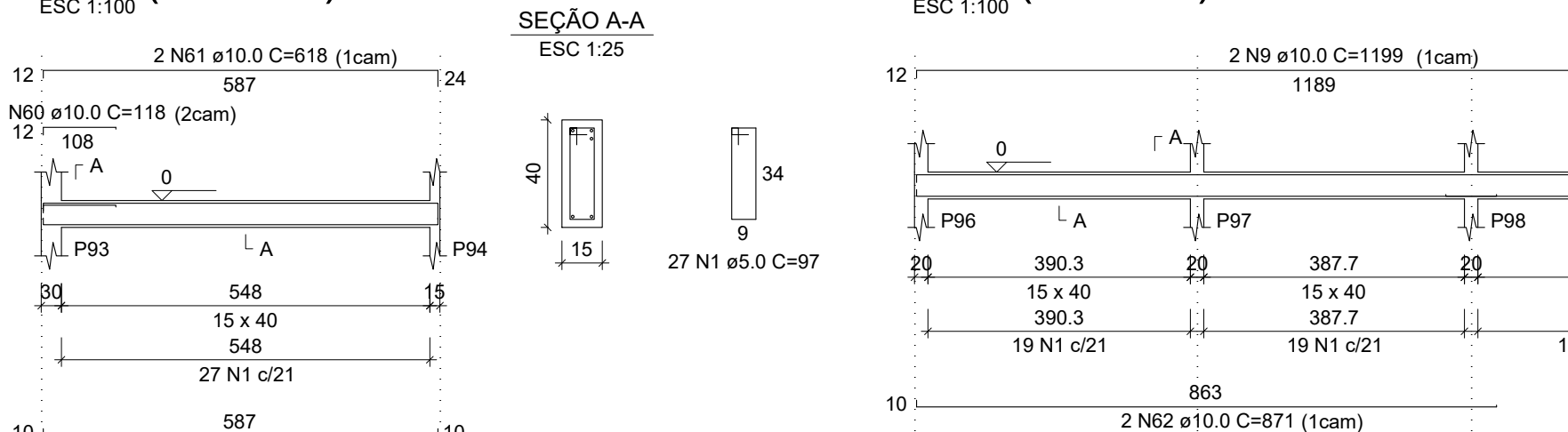
V28 (15 x 40)



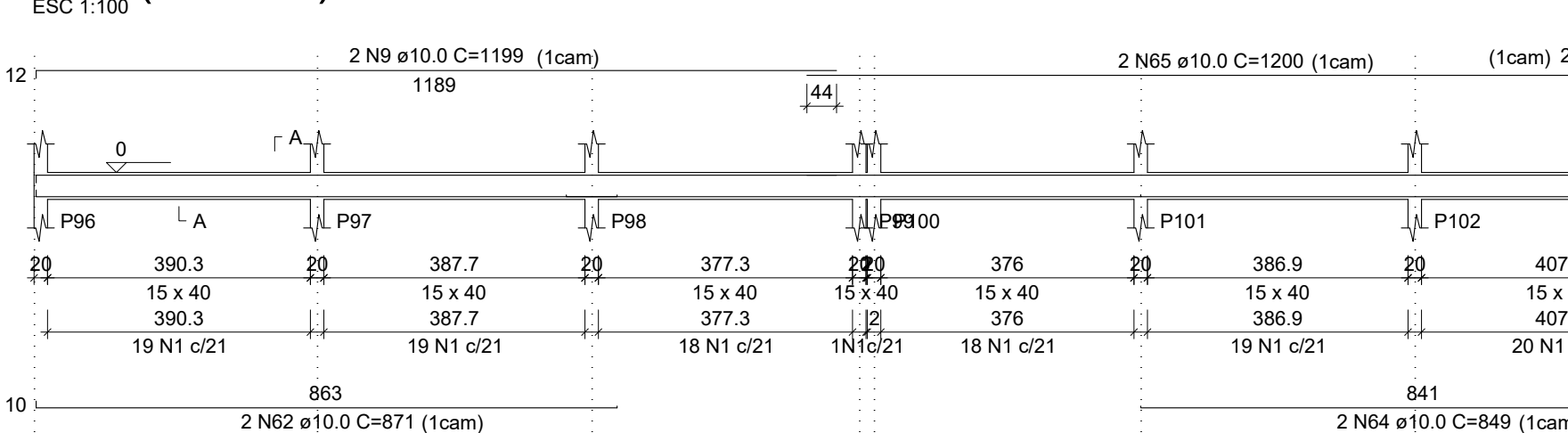
V29 (15 x 40)



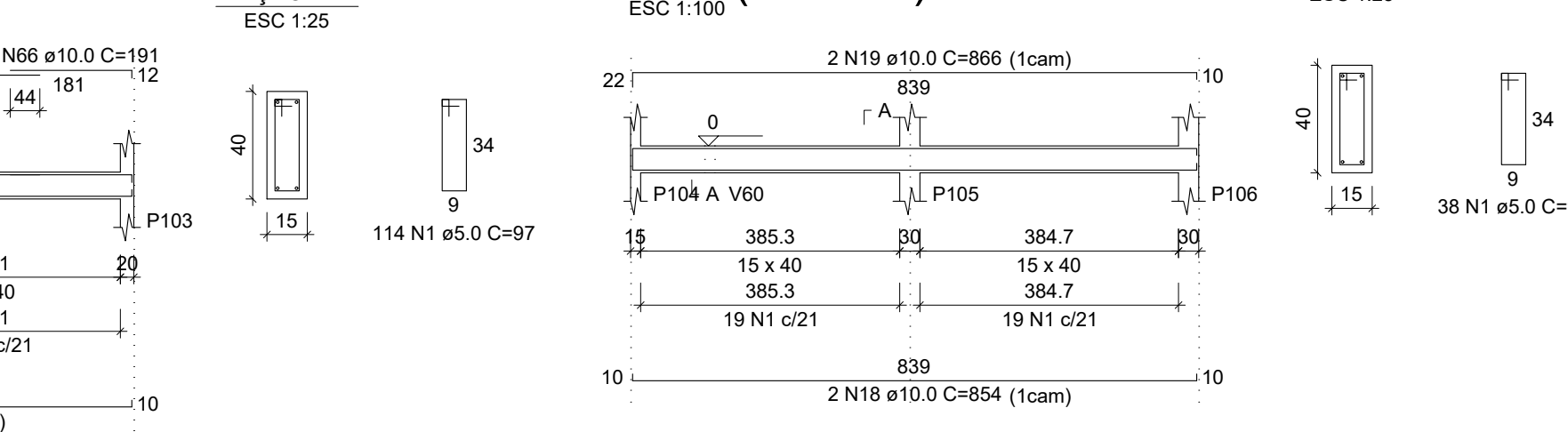
V30 (15 x 40)



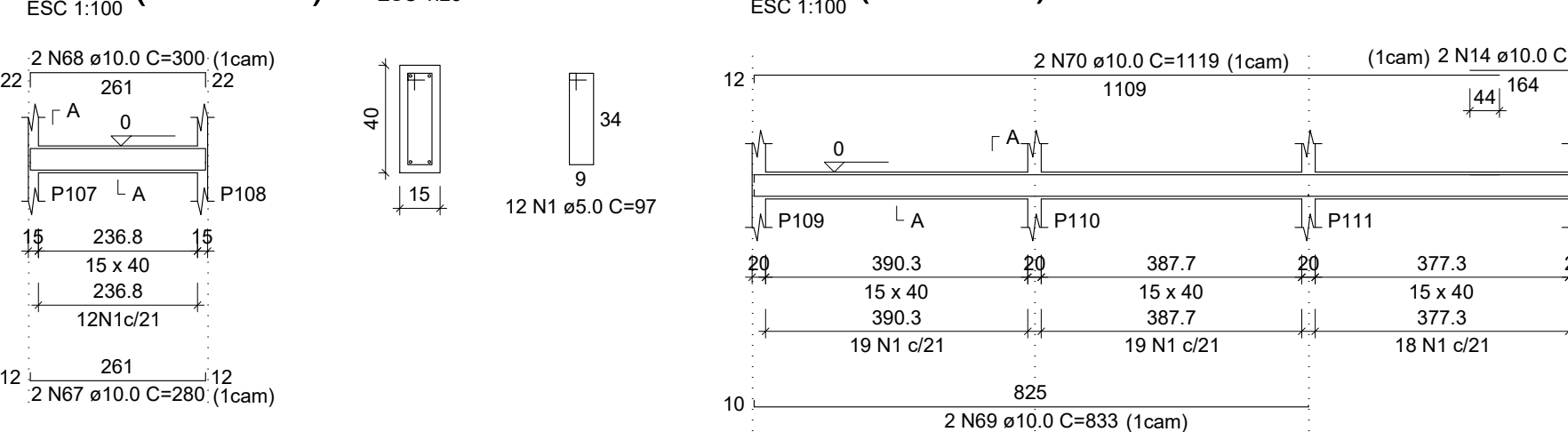
V31 (15 x 40)



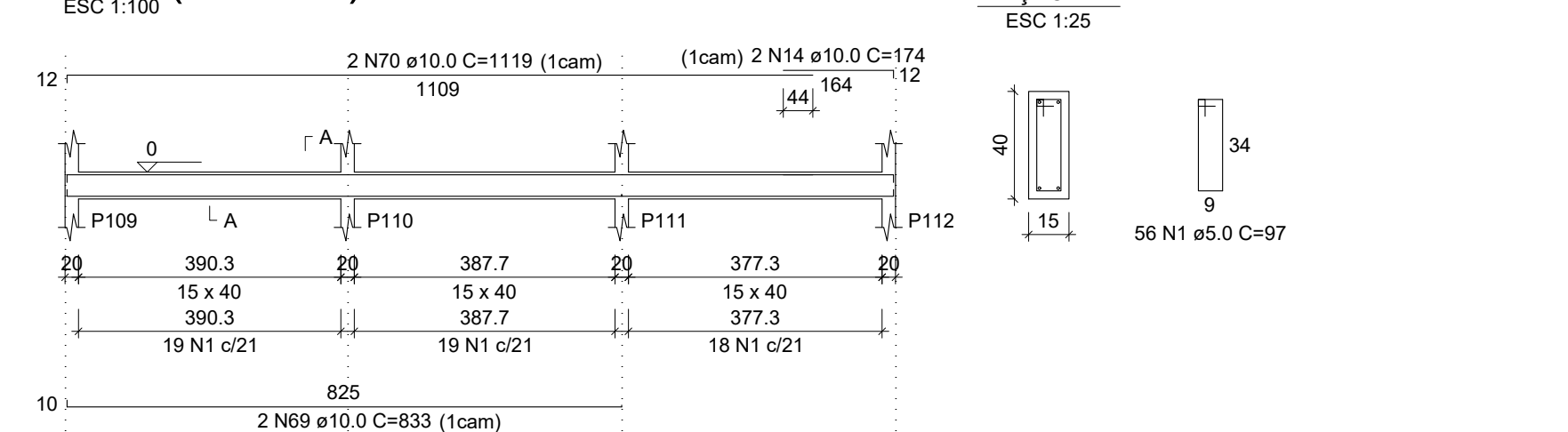
V32 (15 x 40)



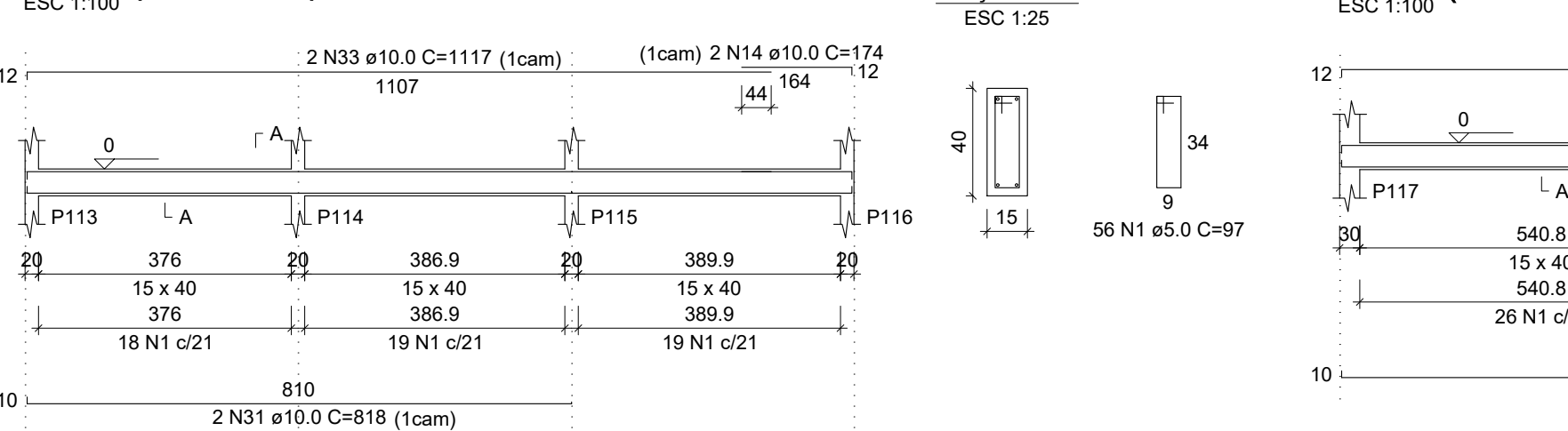
V33 (15 x 40)



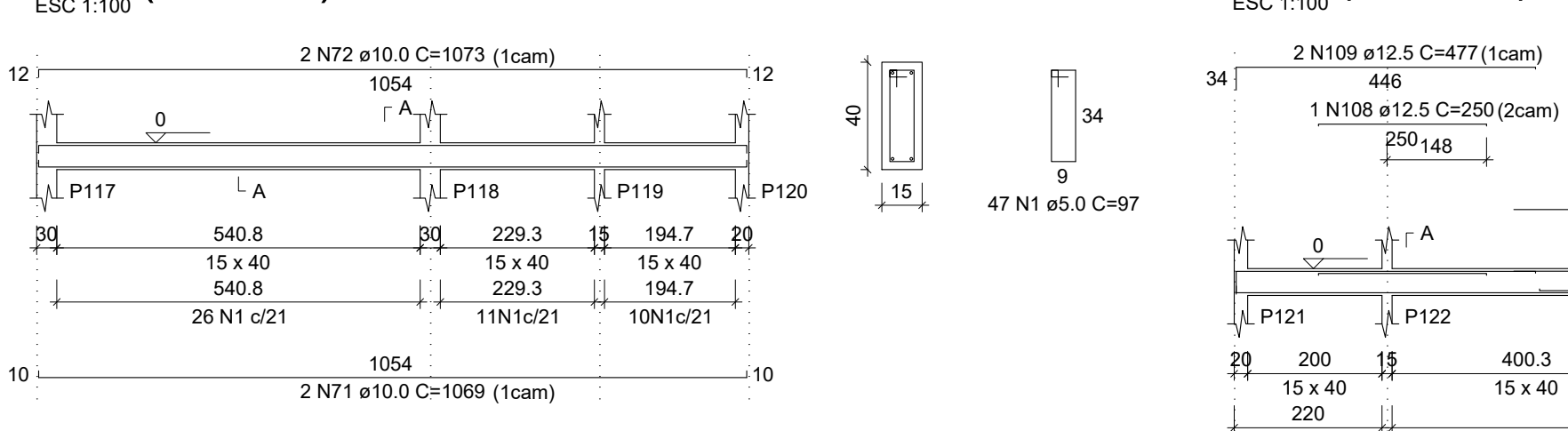
V34 (15 x 40)



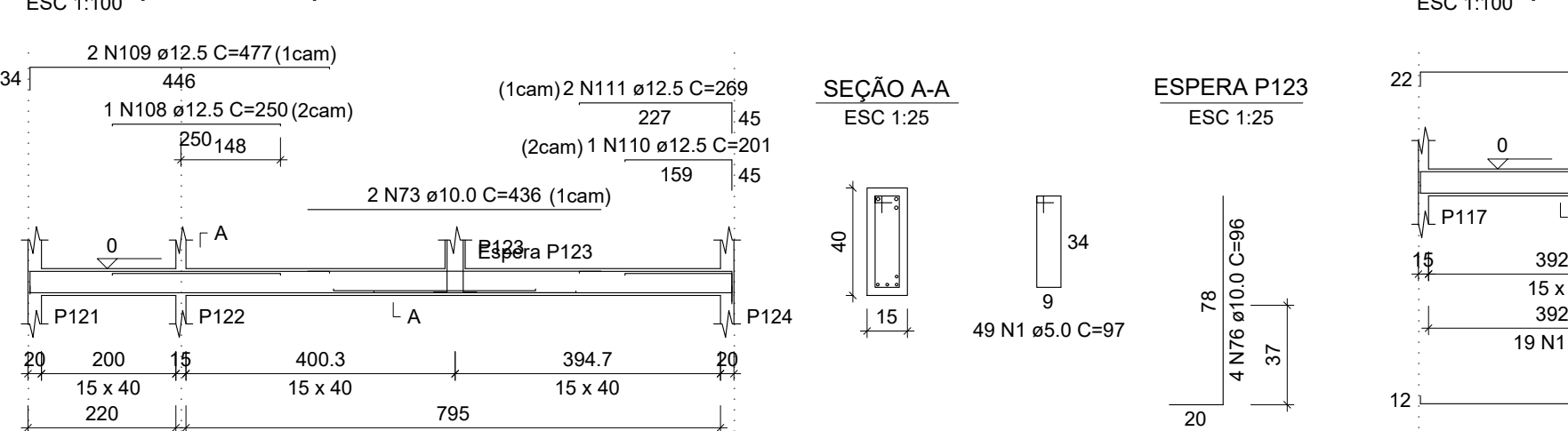
V35 (15 x 40)



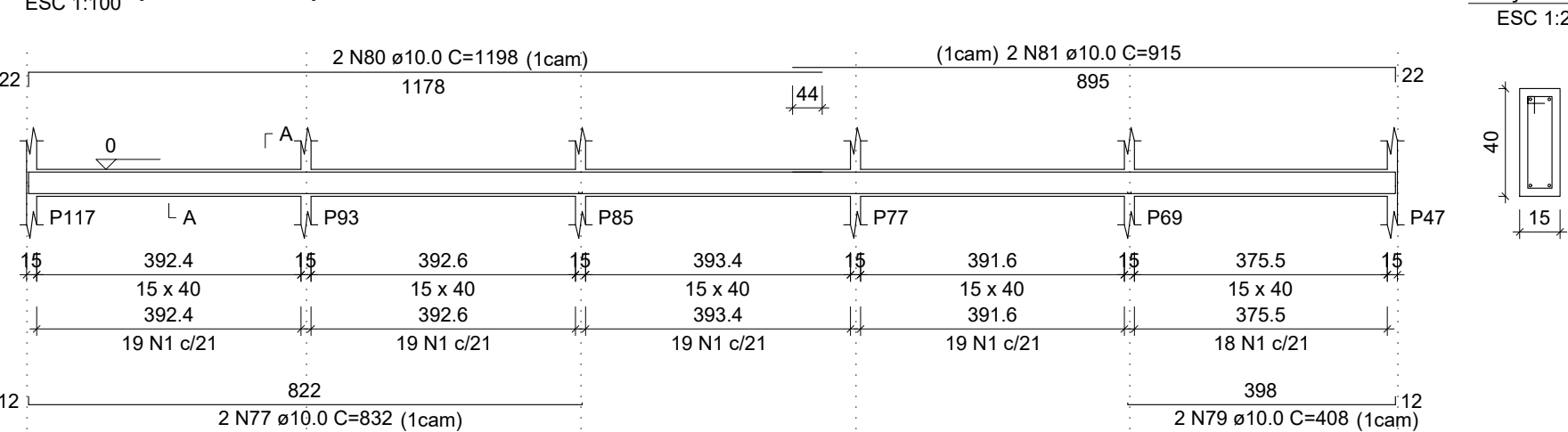
V36 (15 x 40)



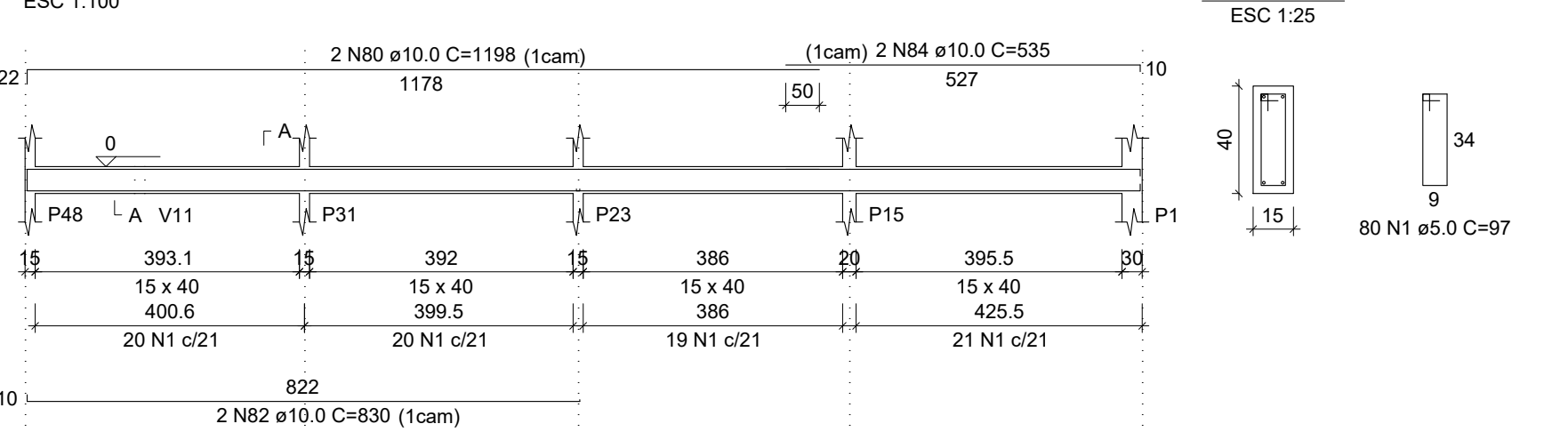
V37 (15 x 40)



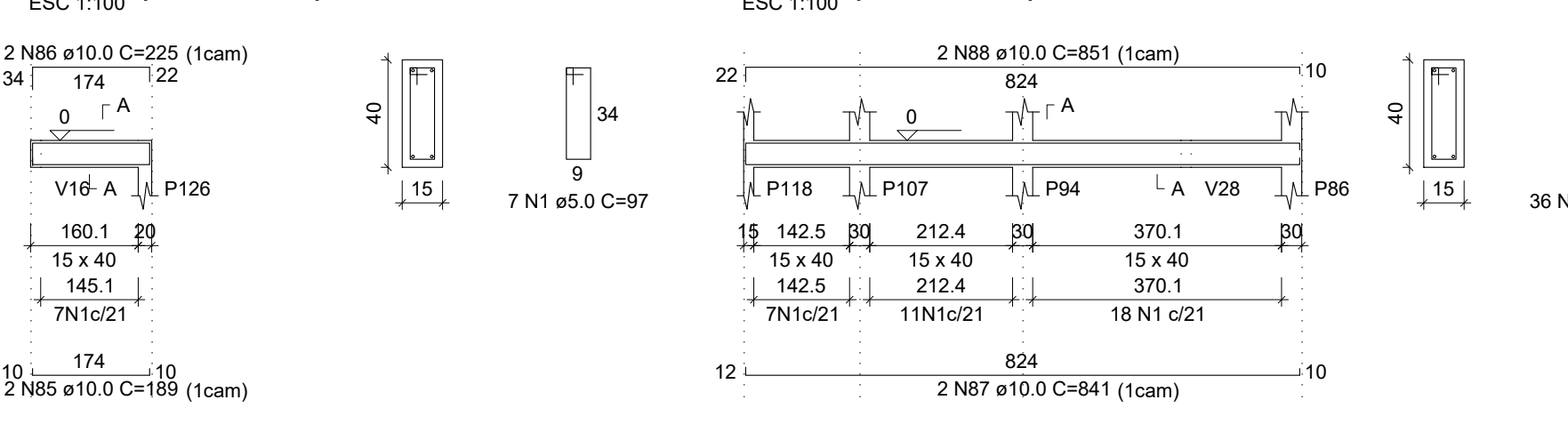
V38 (15 x 40)



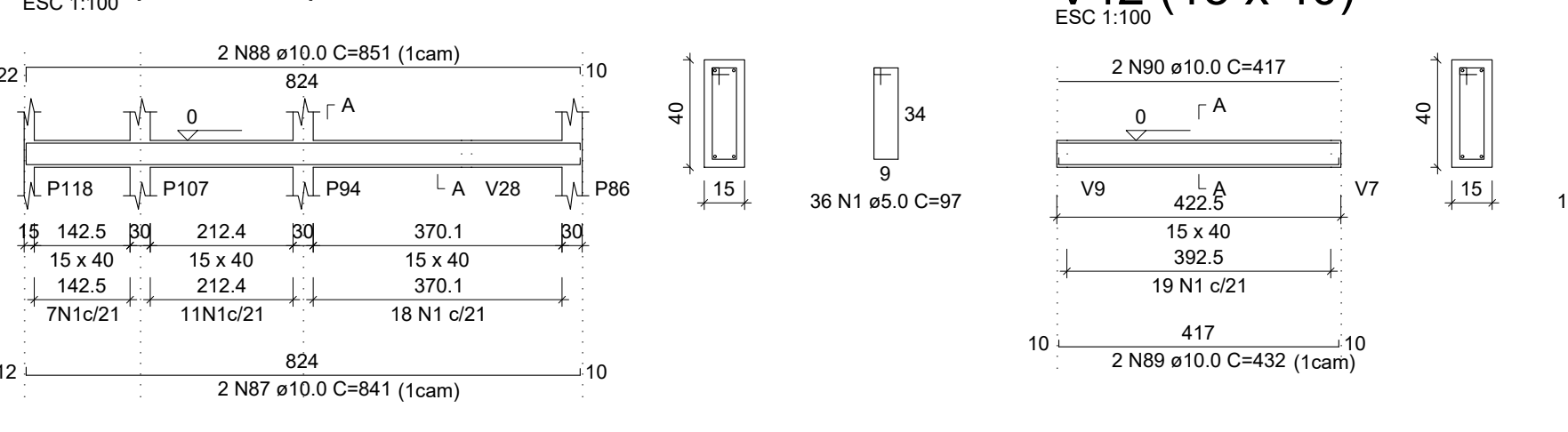
V39 (15 x 40)



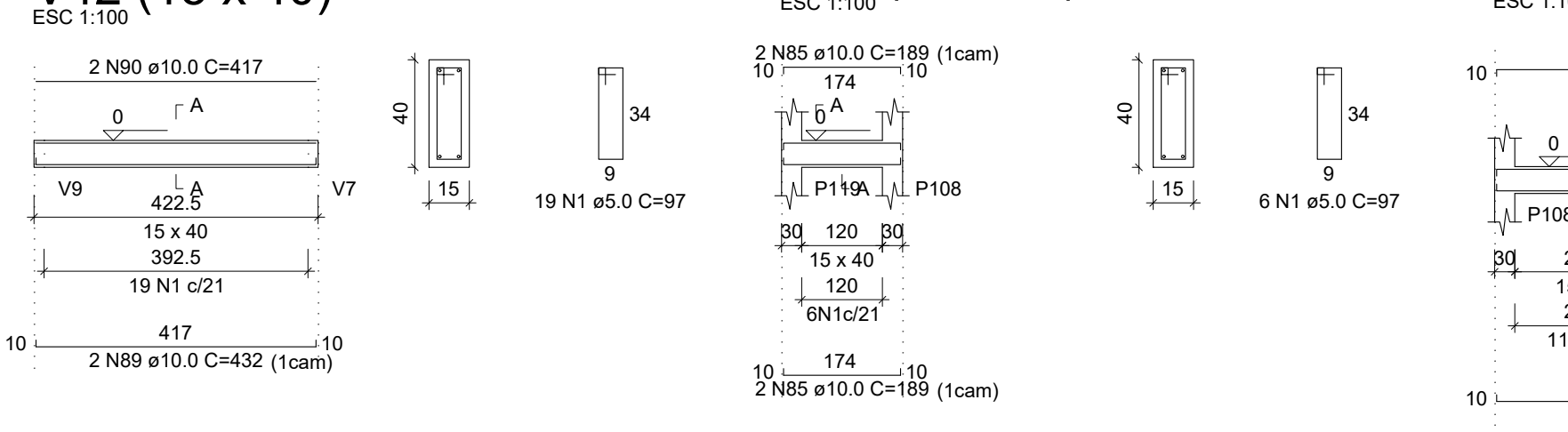
V40 (15 x 40)



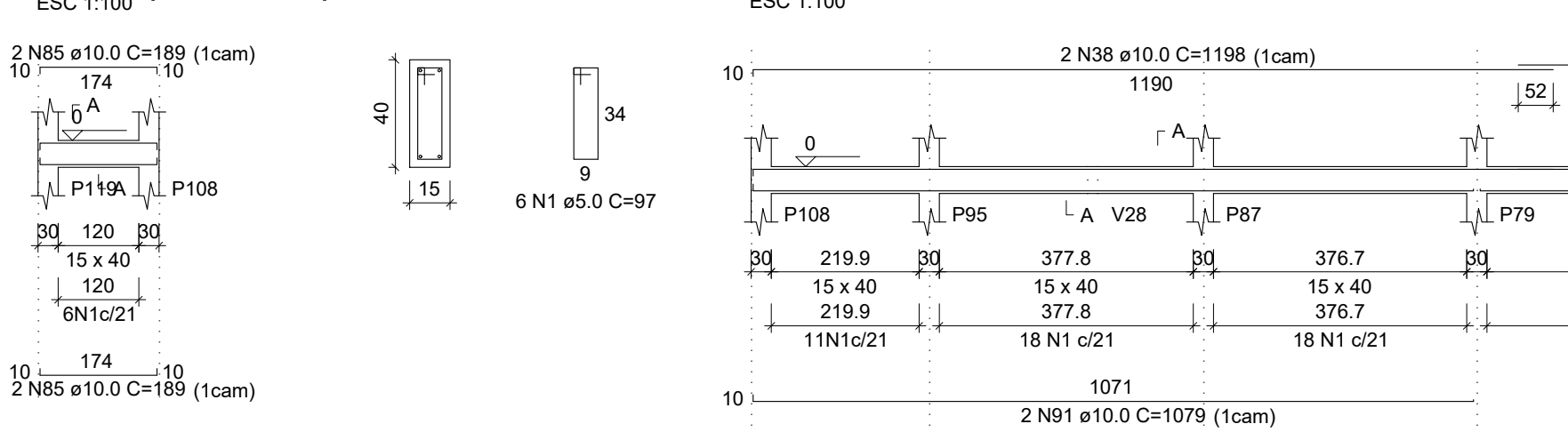
V41 (15 x 40)



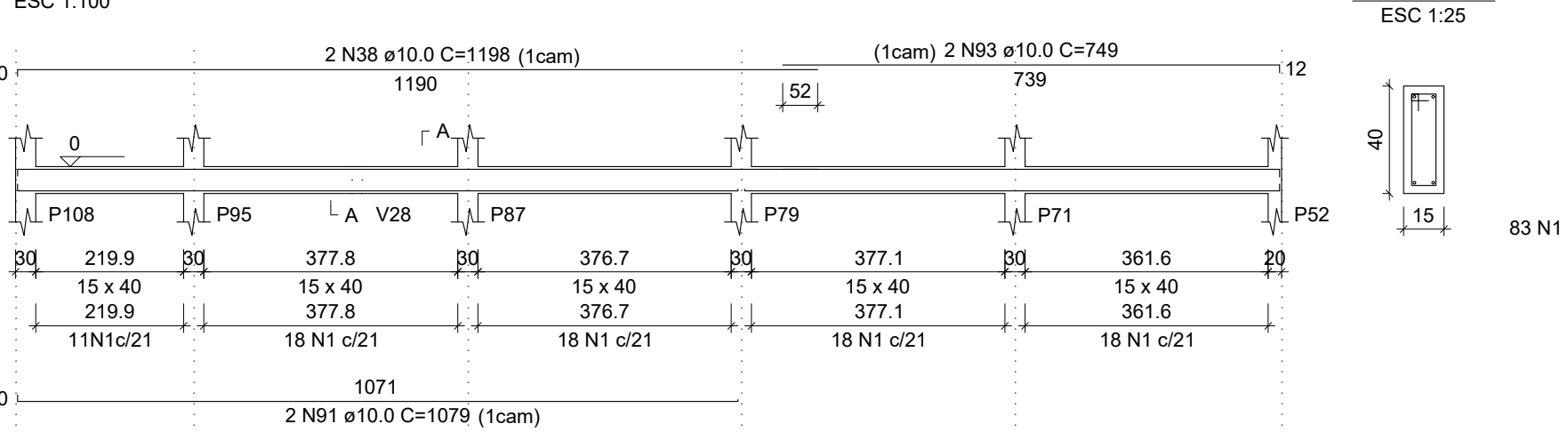
V42 (15 x 40)



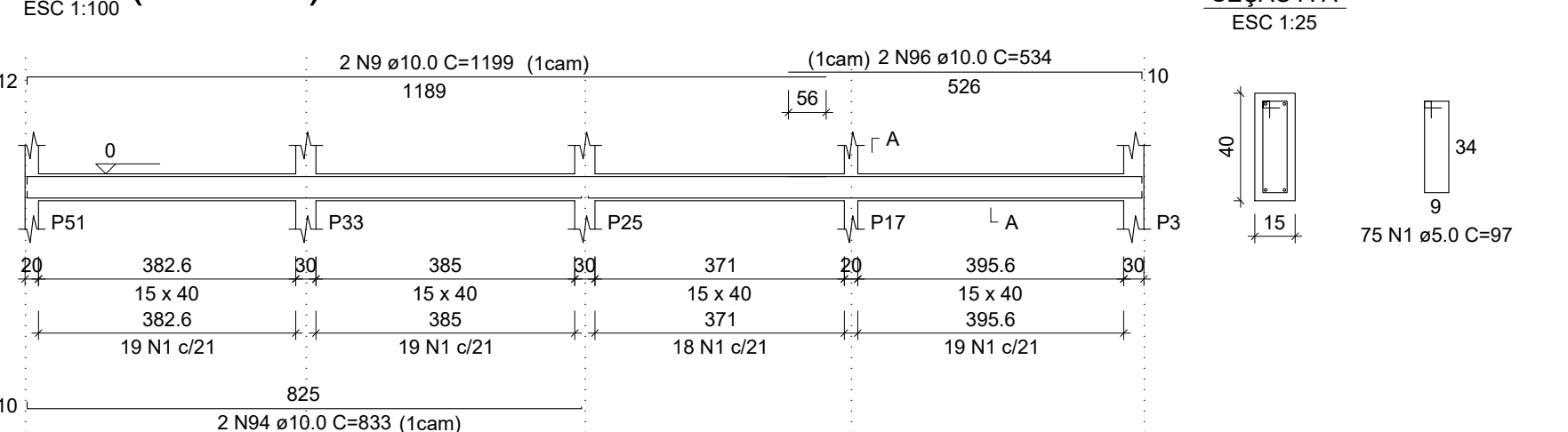
V43 (15 x 40)



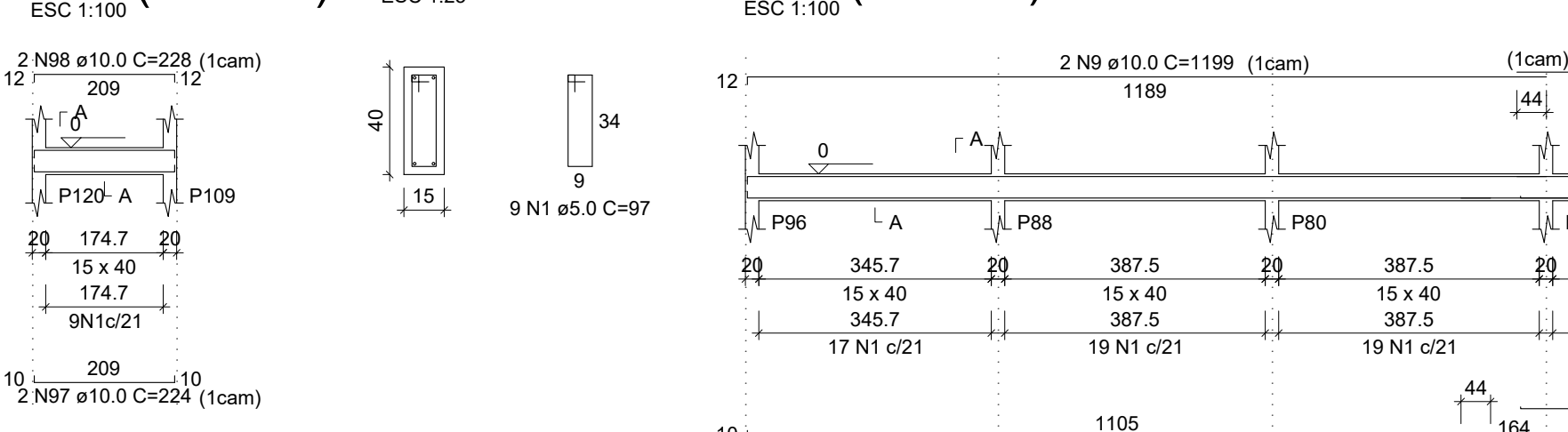
V44 (15 x 40)



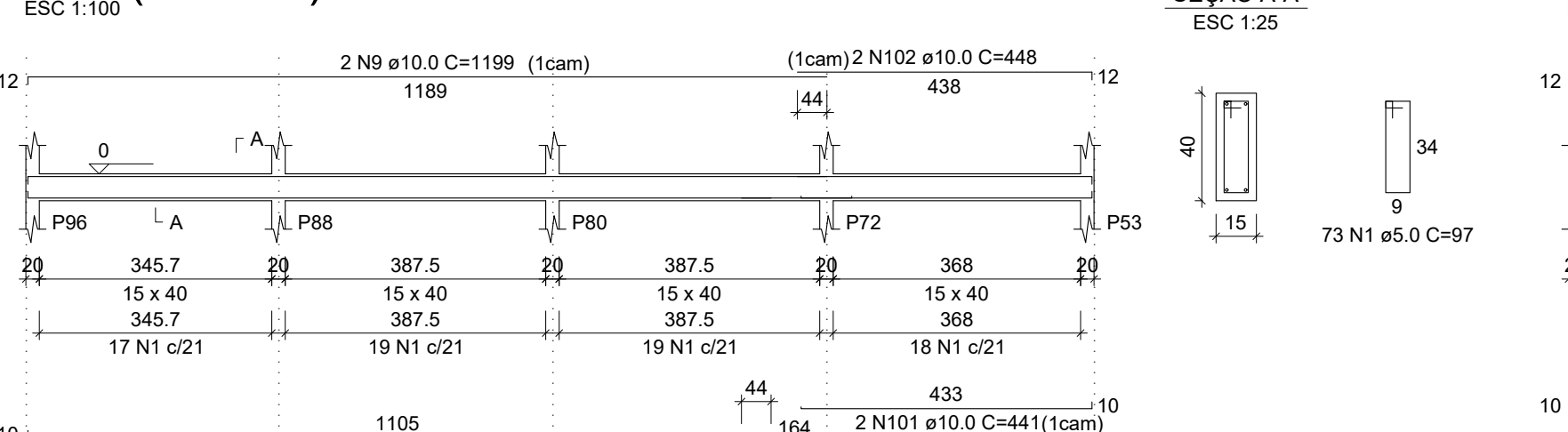
V45 (15 x 40)



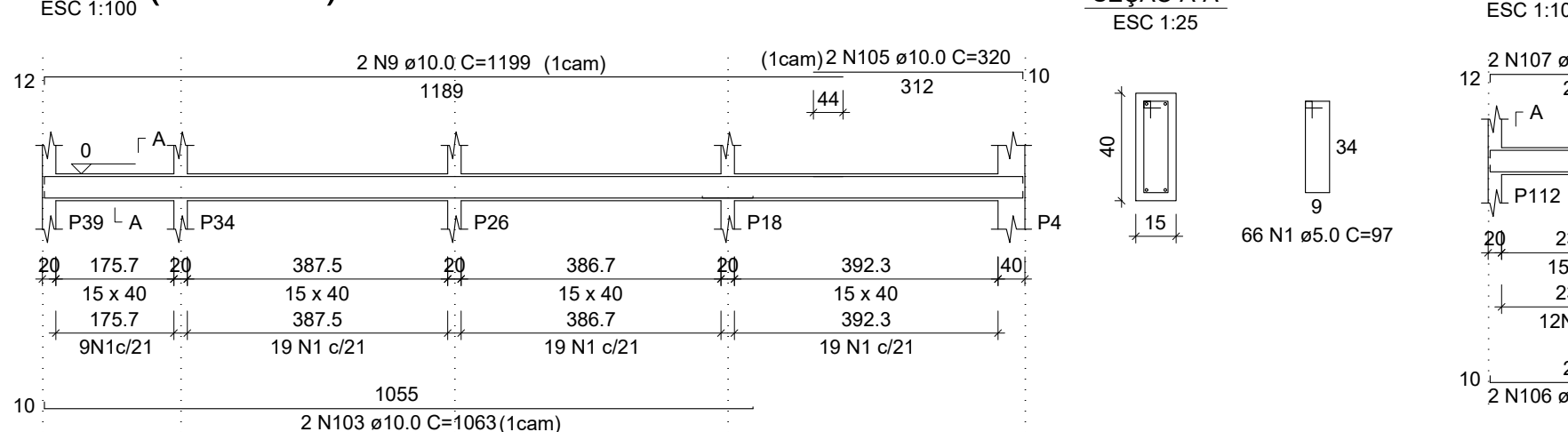
V46 (15 x 40)



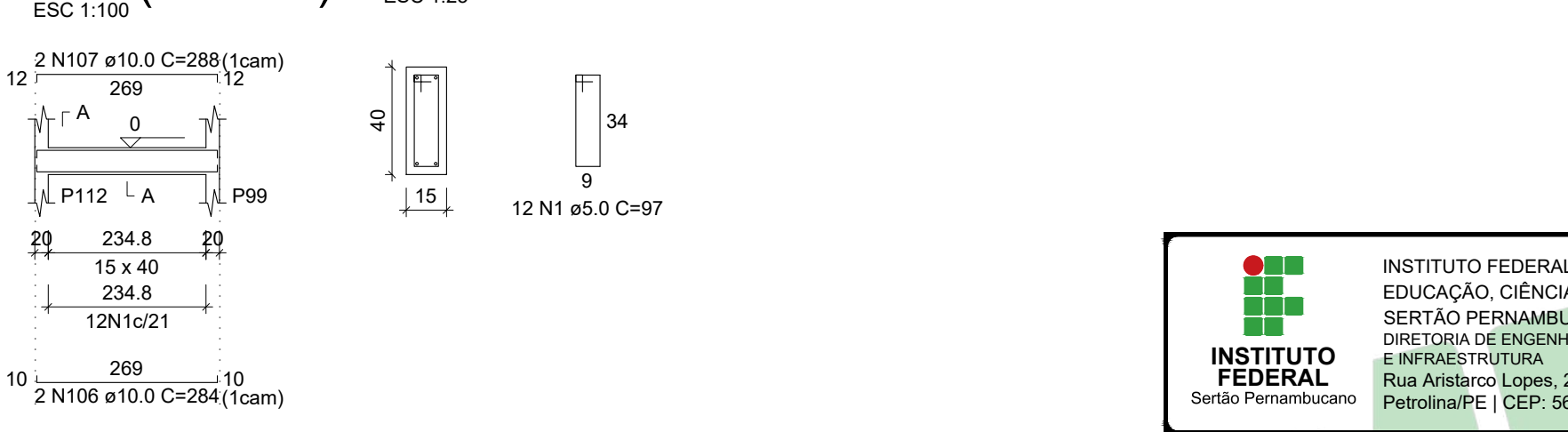
V47 (15 x 40)



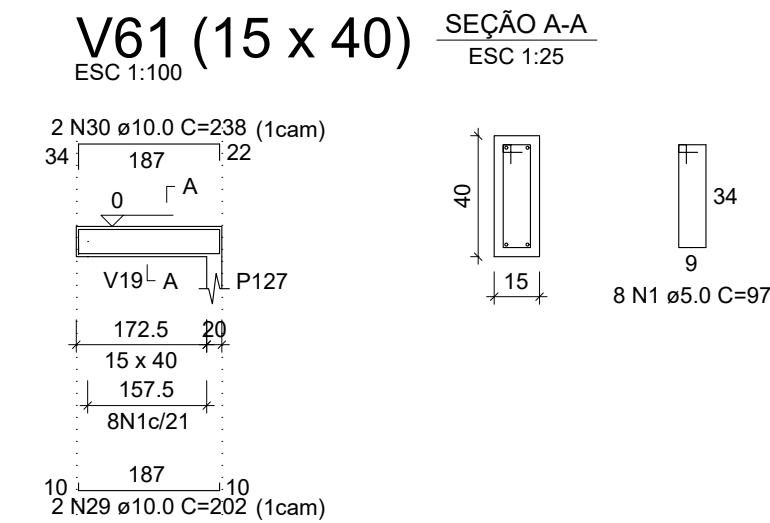
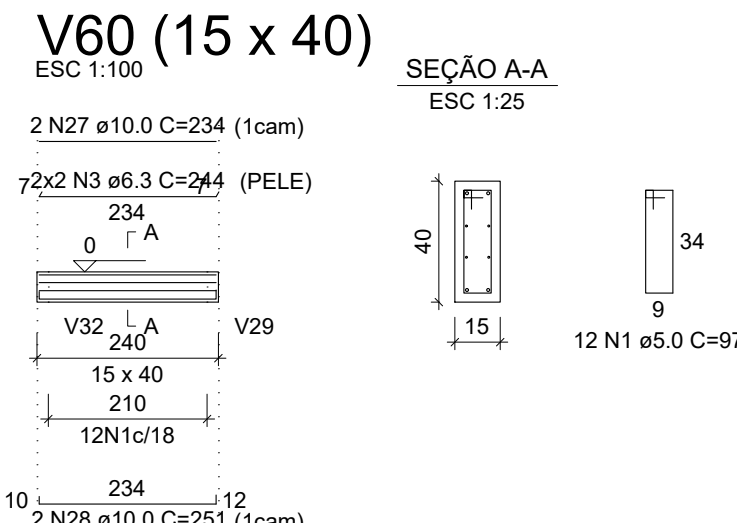
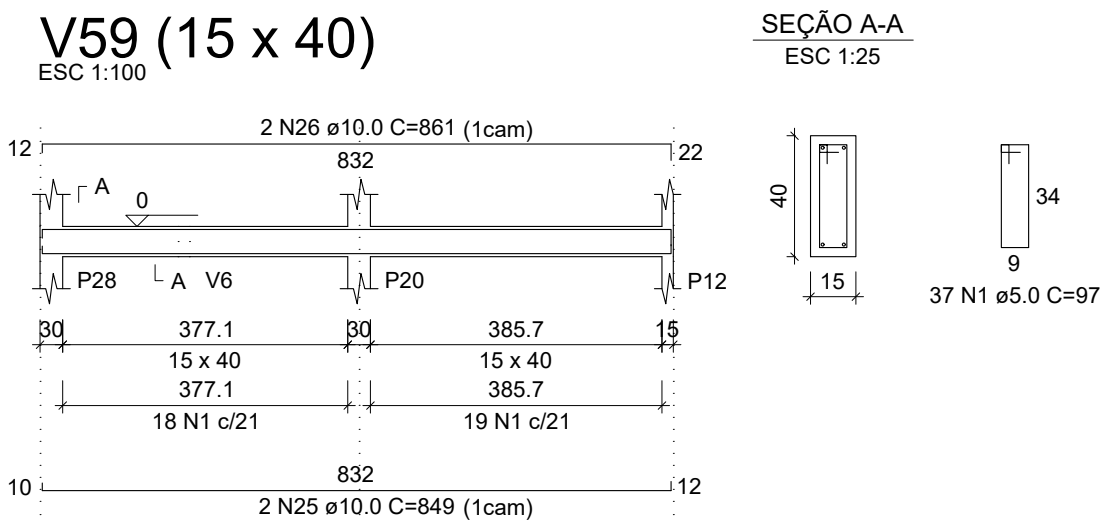
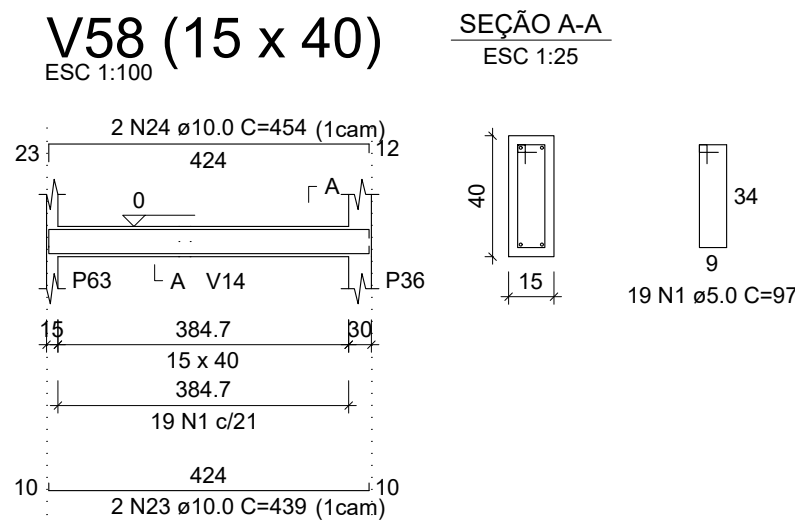
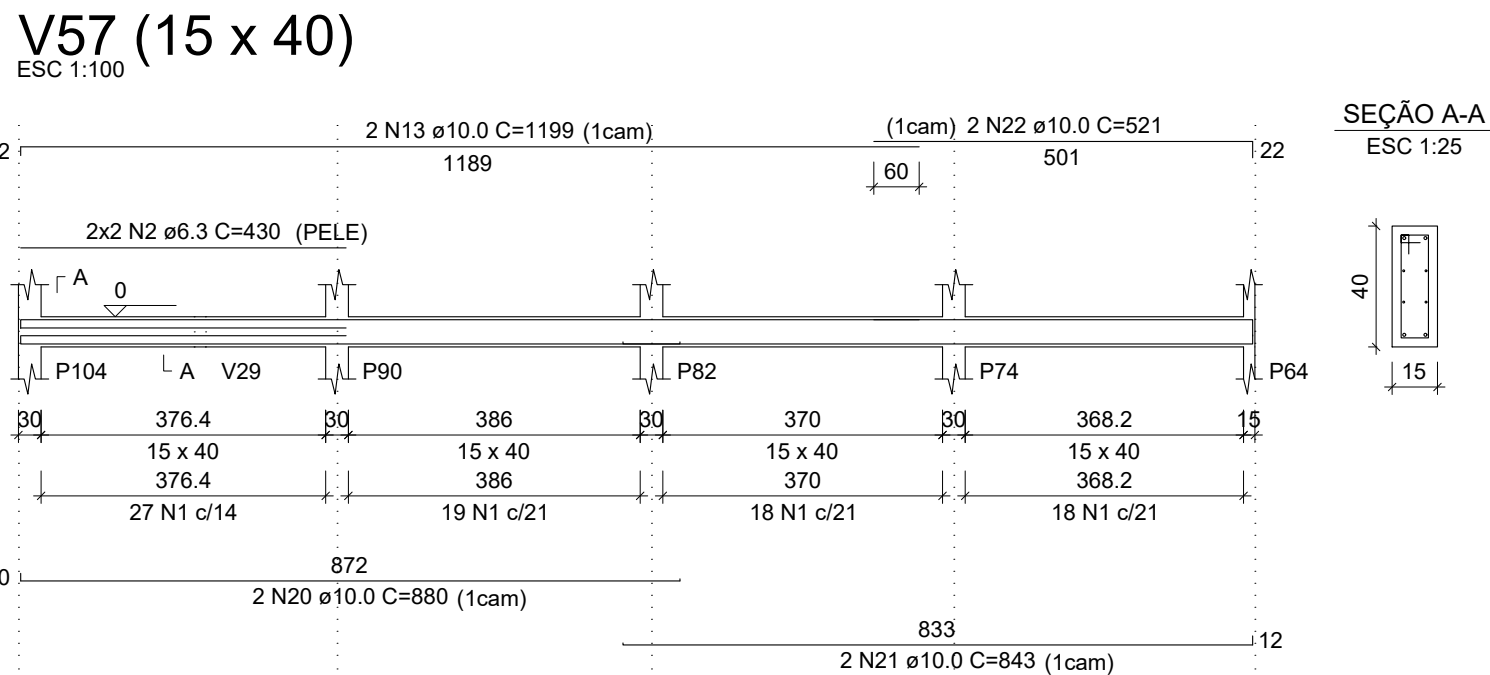
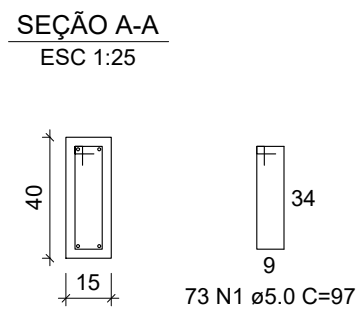
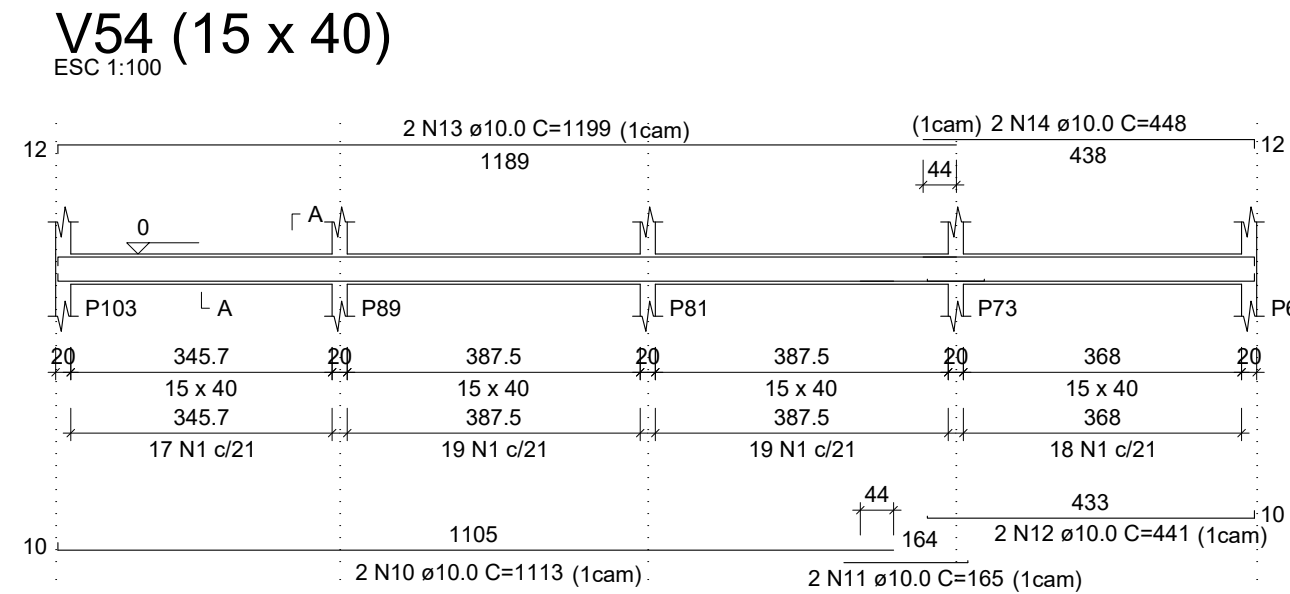
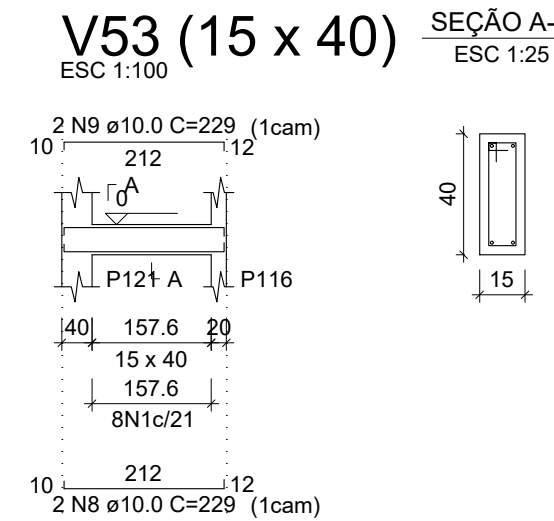
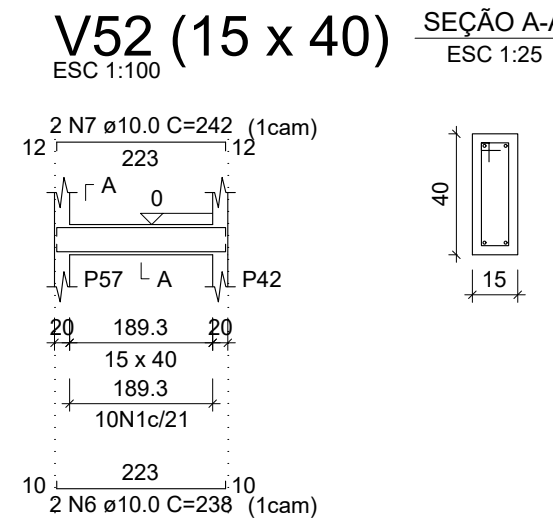
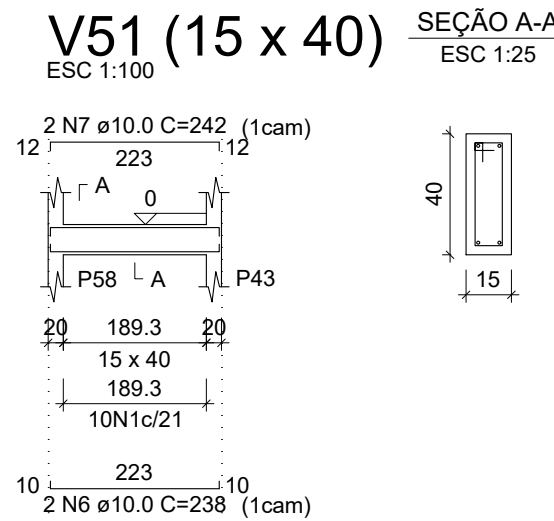
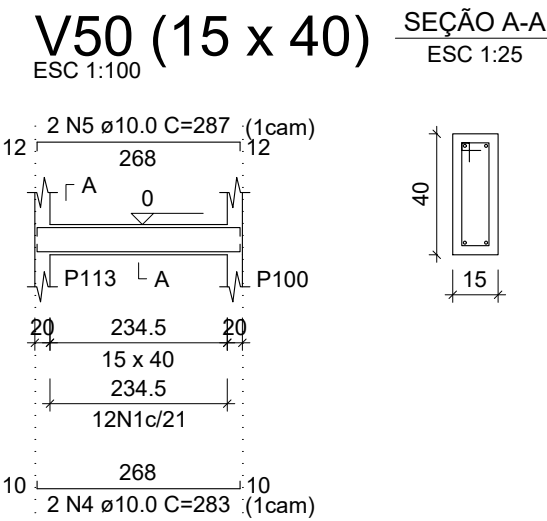
V48 (15 x 40)



V49 (15 x 40)

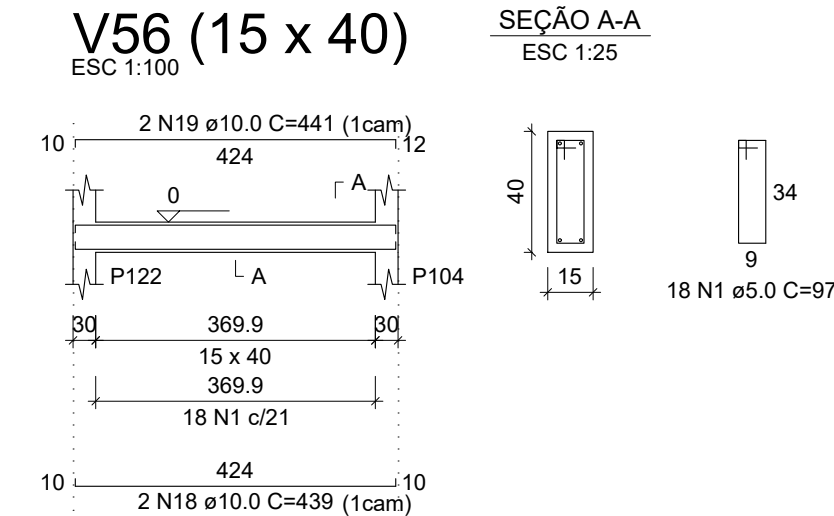
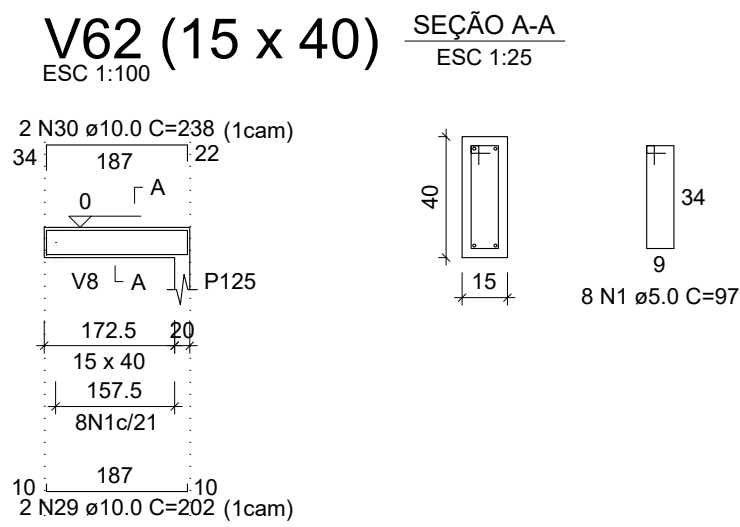
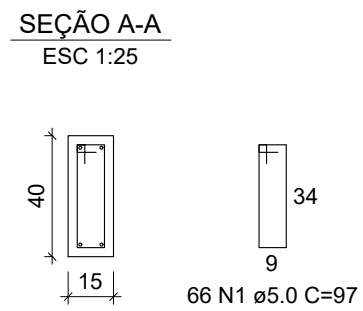
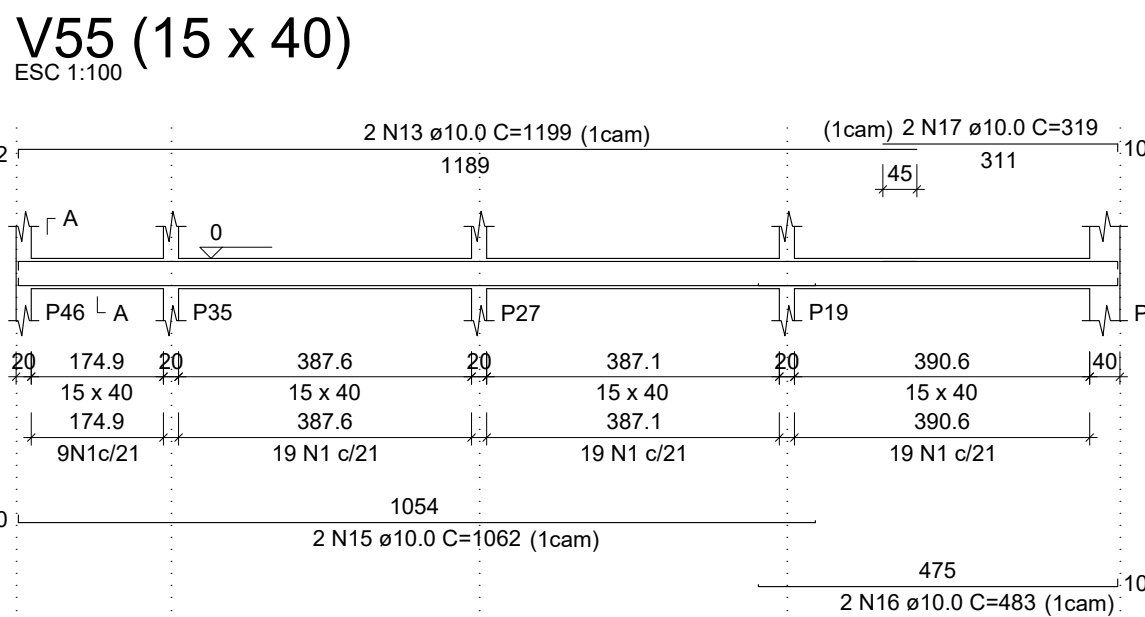
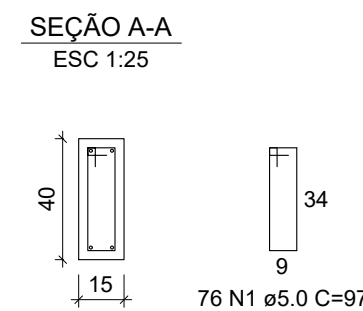
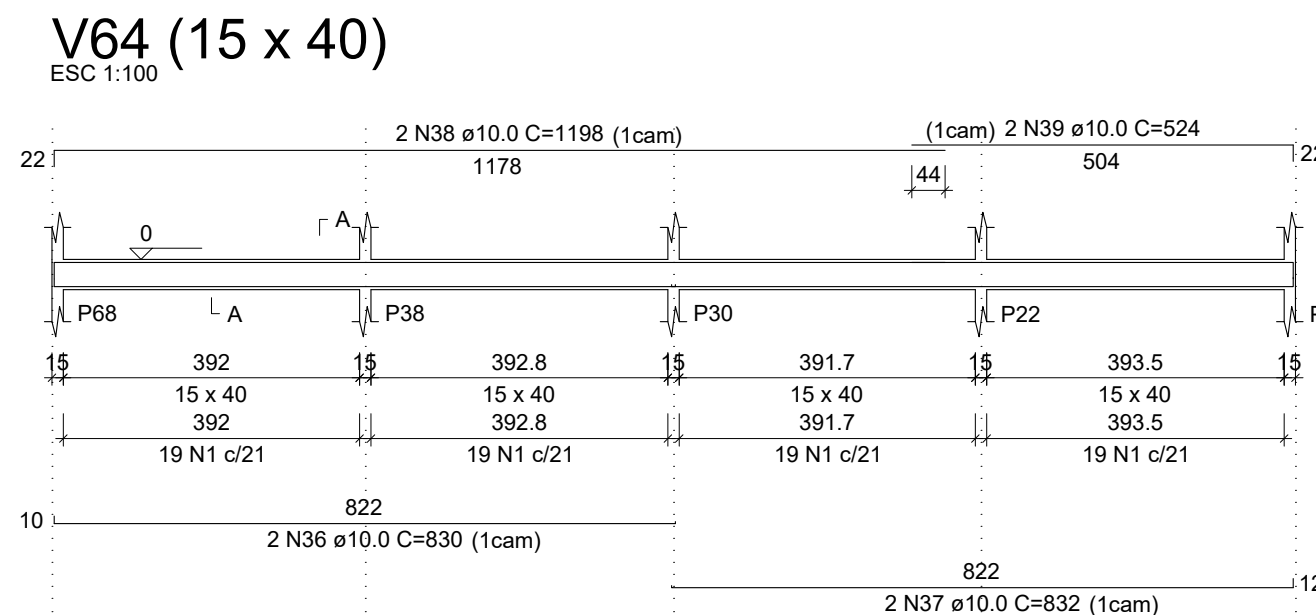
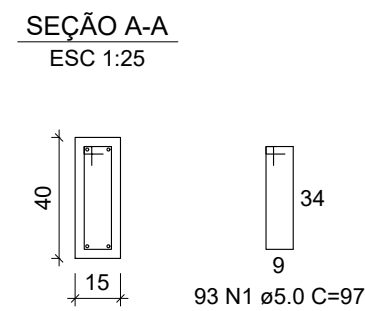
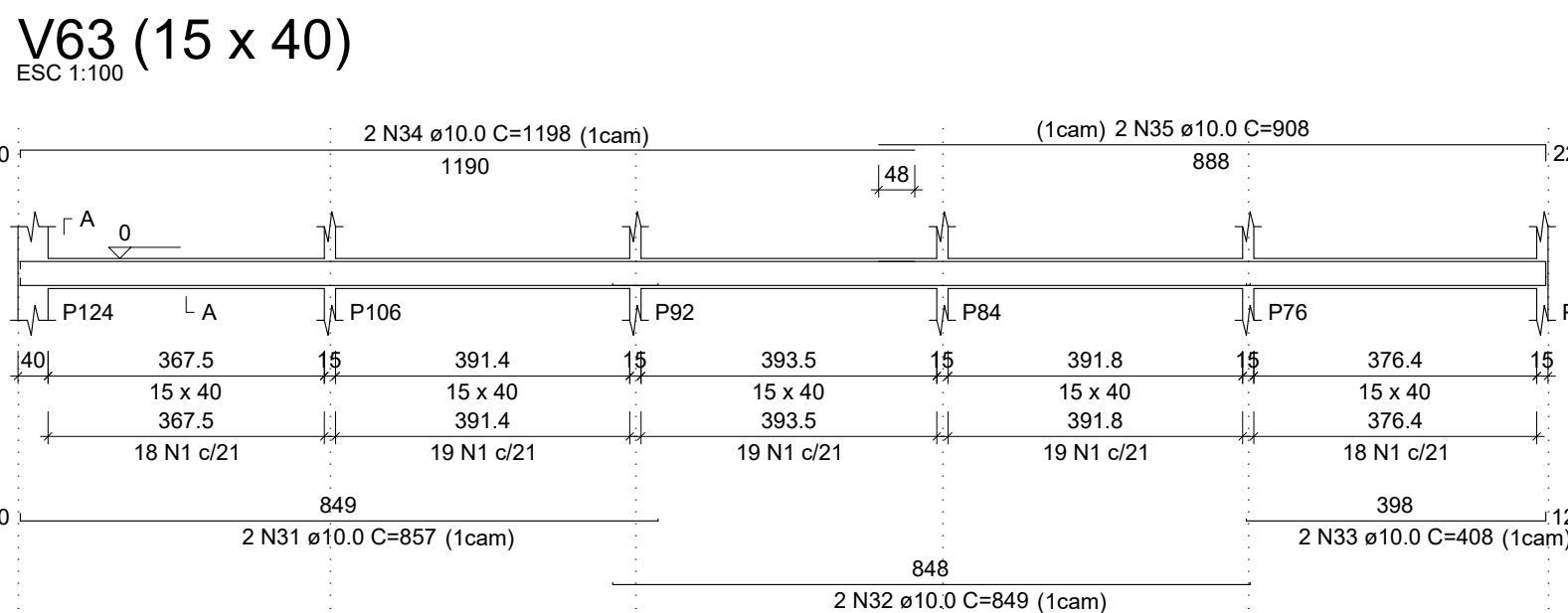


RELAÇÃO DO AÇO					
V1	N	DIAM	QUANT	C UNIT	C TOTAL
V1	1	5.0	2081	97	201857
V1	2	5.0	4	79	304
V1	3	6.3	4	835	3340
V1	4	6.3	4	840	3360
V1	5	6.3	4	139	516
V1	6	10.0	4	1071	4284
V1	7	10.0	4	877	3508
V1	8	10.0	4	1754	6996
V1	9	10.0	4	854	3416
V1	10	10.0	1199	11990	142881
V1	11	10.0	2	856	1712
V1	12	10.0	2	850	1700
V1	13	10.0	2	1120	2240
V1	14	10.0	2	1069	2138
V1	15	10.0	2	1067	2134
V1	16	10.0	2	1099	2208
V1	17	10.0	2	854	1708
V1	18	10.0	2	853	1706
V1	19	10.0	2	853	1706
V1	20	10.0	2	135	540
V1	21	10.0	4	171	684
V1	22	10.0	4	855	3420
V1	23	10.0	2	867	1734
V1	24	10.0	2	1754	6996
V1	25	10.0	2	925	3700
V1	26	10.0	2	482	1928
V1	27	10.0	2	275	1100
V1	28	10.0	2	833	3332
V1	29	10.0	2	412	1648
V1	30	10.0	2	1119	4476
V1	31	10.0	6	818	4908
V1	32	10.0	4	250	1000
V1	33	10.0	1117	6762	75546
V1	34	10.0	2	849	3396
V1	35	10.0	2	1983	7932
V1	36	10.0	2	844	3376
V1	37	10.0	2	1199	4796
V1	38	10.0	2	1449	5796
V1	39	10.0	2	246	984
V1	40	10.0	2	492	1968
V1	41	10.0	2	1099	4396
V1	42	10.0	2	1099	4396
V1	43	10.0	2	1052	4208
V1	44	10.0	2	1052	4208
V1	45	10.0	2	1052	4208
V1	46	10.0	2	1052	4208
V1	47	10.0	2	1052	4208
V1	48	10.0	2	866	1732
V1	49	10.0	2	866	1732
V1	50	10.0	2	496	1984
V1	51	10.0	2	856	3424
V1	52	10.0	2	856	3424
V1	53	10.0	2	856	3424
V1	54	10.0	2	1338	5352
V1	55	10.0	2	1338	5352
V1	56	10.0	2	312	1248
V1	57	10.0	2	602	2408
V1	58	10.0	2	871	3484
V1	59	10.0	2	854	3416
V1	60	10.0	2	848	3392
V1	61	10.0	2	280	1120
V1	62	10.0	2	280	1120
V1	63	10.0	2	280	1120
V1	64	10.0	2	280	1120
V1	65	10.0	2	280	1120
V1	66	10.0	2	280	1120
V1	67	10.0	2	280	1120
V1	68	10.0	2	280	1120
V1	69	10.0	2	280	1120
V1	70	10.0	2	280	1120
V1	71	10.0	2	280	1120
V1	72	10.0	2	280	1120
V1	73	10.0	2	280	1120
V1	74	10.0	2	280	1120
V1	75	10.0	2	280	1120
V1	76	10.0	2	280	1120
V1	77	10.0	2	280	1120
V1	78	10.0	2	280	1120
V1	79	10.0	2	280	1120
V1	80	10.0	2	280	1120
V1	81	10.0	2	280	1120
V1	82	10.0	2	280	1120
V1	83	10.0	2	280	1120
V1	84	10.0	2	280	1120
V1	85	10.0	2	280	1120
V1	86	10.0	2	280	1120
V1	87	10.0	2	280	1120
V1	88	10.0	2	280	1120
V1	89	10.0	2	280	1120
V1	90	10.0	2	280	1120
V1	91	10.0	2	280	1120
V1	92	10.0	2	280	1120
V1	93	10.0	2	280	1120
V1	94	10.0	2	280	1120
V1	95	10.0	2	280	1120
V1	96	10.0	2	280	1120
V1	97	10.0	2	280	1120
V1	98	10.0	2	280	1120
V1	99	10.0	2	280	1120
V1	100	10.0	2	280	1120
V1	101	10.0	2	280	1120
V1	102	10.0	2	280	1120
V1	103	10.0	2	280	1120
V1	104	10.0	2	280	1120
V1	105	10.0	2	280	1120
V1	106	10.0	2	280	1120
V1	107	10.0	2	280	1120
V1	108	12.5	1	290	290
V1	109	12.5	1	290	290
V1	110	12.5	1	290	290
V1	111	12.5	1	290	290
V1	112	12.5	1	290	290
V1	113	12.5	1	290	290
V1	114	12.5	1	290	290
V1	115	12.5	1	290	290
V1	116	12.5	1	290	290
V1	117	12.5	1	290	290
V1	118	12.5	1	290	290
V1	119	12.5	1	290	290
V1	120	12.5	1	290	290
V1	121	12.5	1	290	290
V1	122	12.5	1	290	290
V1	123	12.5	1	290	290
V1	124	12.5	1	290	290
V1	125	12.5	1	290	290
V1	126	12.5	1	290	290
V1	127	12.5	1	290	290
V1	128	12.5	1	290	290
V1	129	12.5	1	290	290
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V1	239	12.5	1	290	290
V1	240	12.5	1	290	290
V1	241	12.5	1	290	290
V1	242	12.5	1	290	290
V1	243	12.5	1	290	290
V1	244	12.5	1	290	290
V1	245	12.5	1	290	290
V1	246	12.5	1	290	290
V1	247	12.5	1	290	290
V1	248	12.5	1	290	290
V1	249	12.5	1	290	290
V1	250	12.5	1	290	290
V1	251	12.5	1	290	290



RELAÇÃO DO AÇO

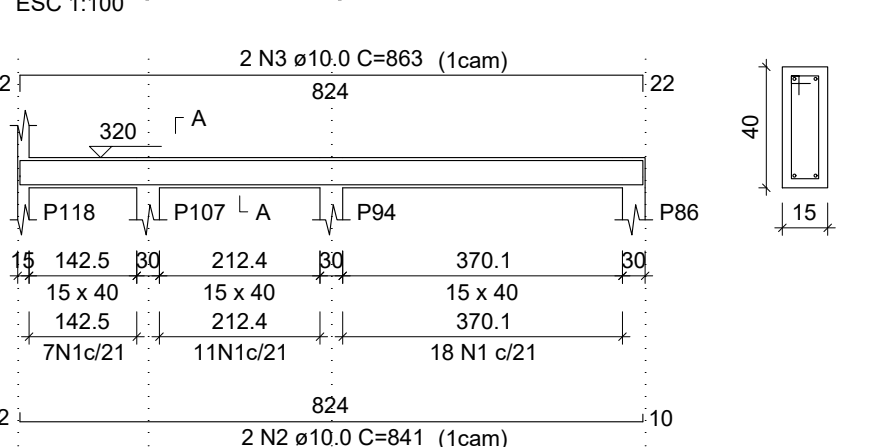
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V50	1	5.0	532	97	51604
V53	2	6.3	4	430	1720
V54	3	6.3	4	244	976
V56	4	10.0	2	283	566
V57	5	10.0	2	287	574
V58	6	10.0	4	238	952
V59	7	10.0	4	242	968
V60	8	10.0	2	229	458
V61	9	10.0	2	229	458
V62	10	10.0	2	1113	2226
	11	10.0	2	165	330
	12	10.0	2	441	882
	13	10.0	6	1199	7194
	14	10.0	2	448	896
	15	10.0	2	1062	2124
	16	10.0	2	463	926
	17	10.0	2	319	638
	18	10.0	2	439	878
	19	10.0	2	441	882
	20	10.0	2	880	1760
	21	10.0	2	843	1686
	22	10.0	2	521	1042
	23	10.0	2	439	878
	24	10.0	2	454	908
	25	10.0	2	849	1698
	26	10.0	2	861	1722
	27	10.0	2	234	468
	28	10.0	2	251	502
	29	10.0	2	202	404
	30	10.0	4	238	952
	31	10.0	2	857	1714
	32	10.0	2	849	1698
	33	10.0	2	408	816
	34	10.0	2	1198	2396
	35	10.0	2	908	1816
	36	10.0	2	830	1660
	37	10.0	2	832	1664
	38	10.0	2	1198	2396
	39	10.0	2	524	1048



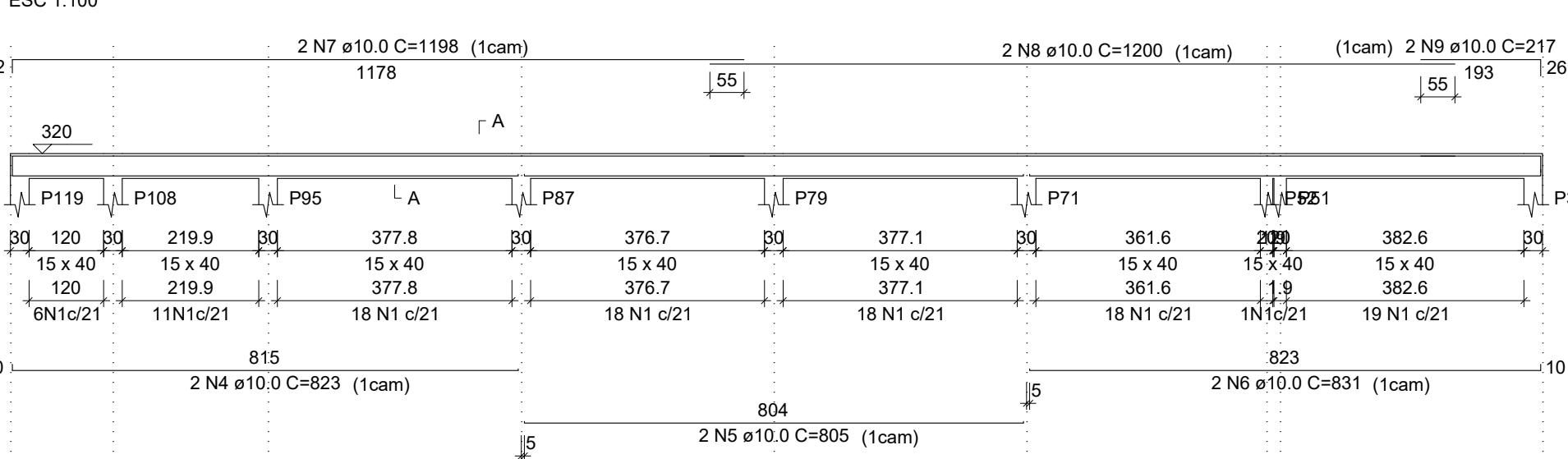
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	27	3	12 m	6.6
CA60	10.0	486.2	41	12 m	299.8
CA60	5.0	516	-	rolo (170 kg)	79.5

Volume de concreto (C-25) = 6.98 m³
Área de forma = 110.56 m²

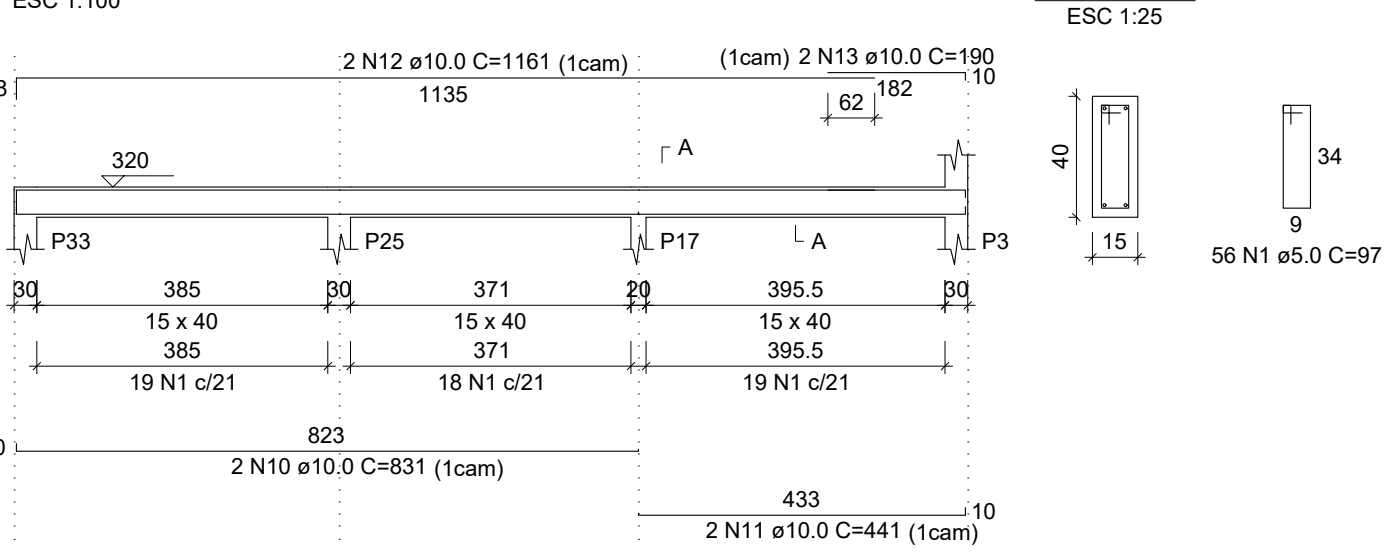
V36 (15 x 40)



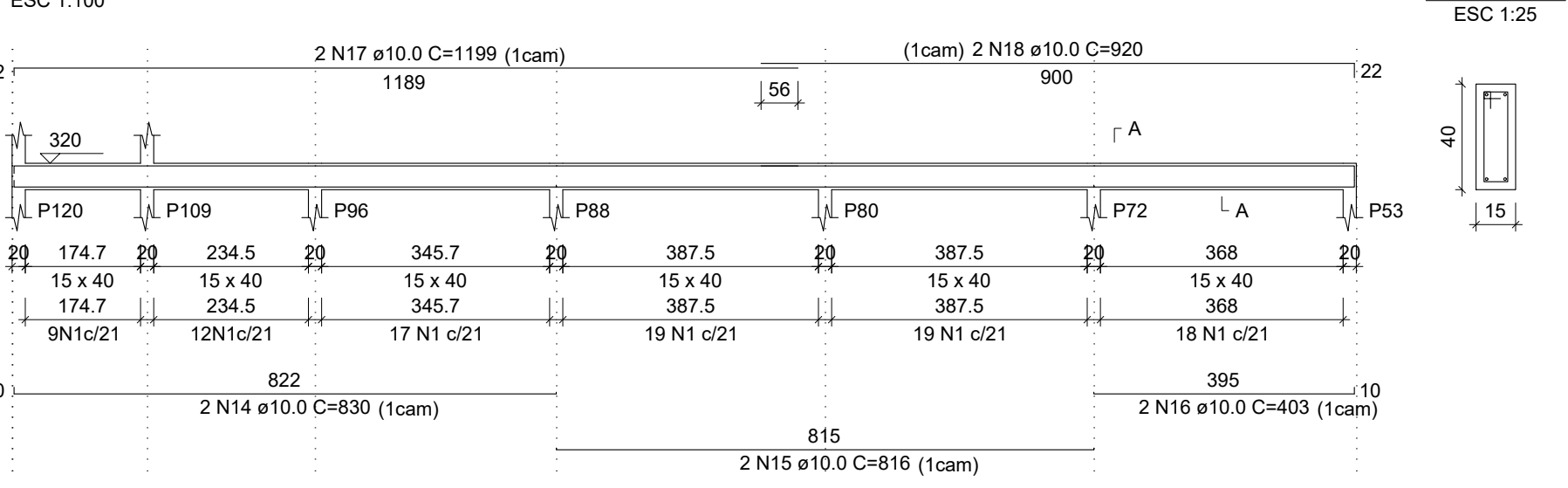
V37 (15 x 40)



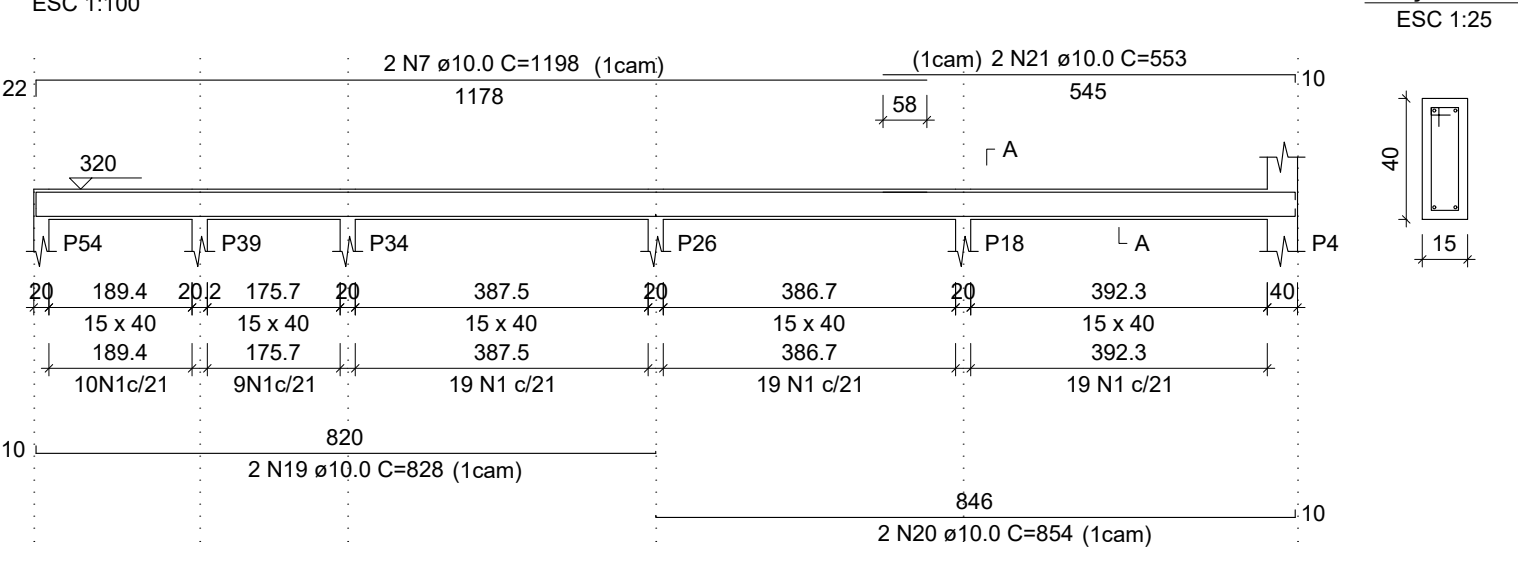
V38 (15 x 40)



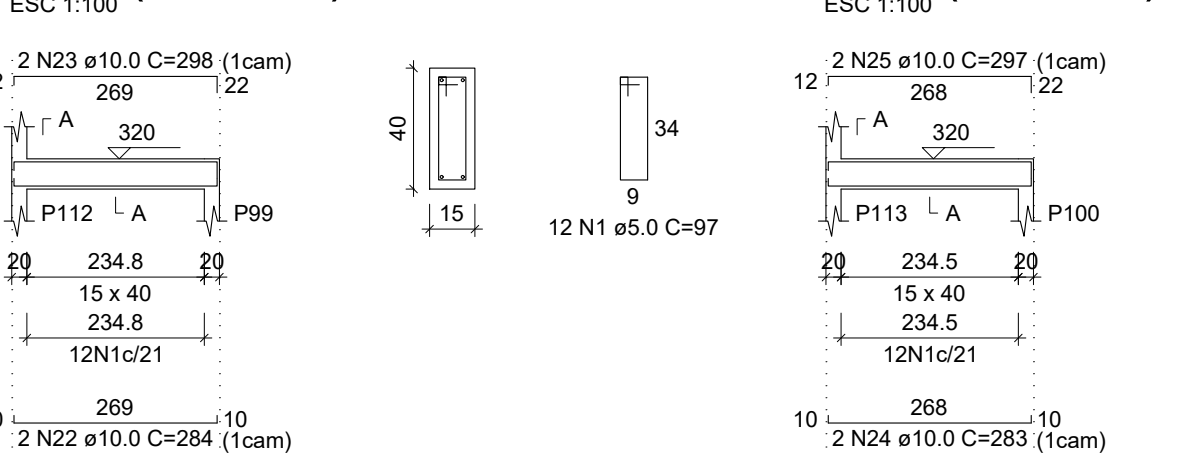
V39 (15 x 40)



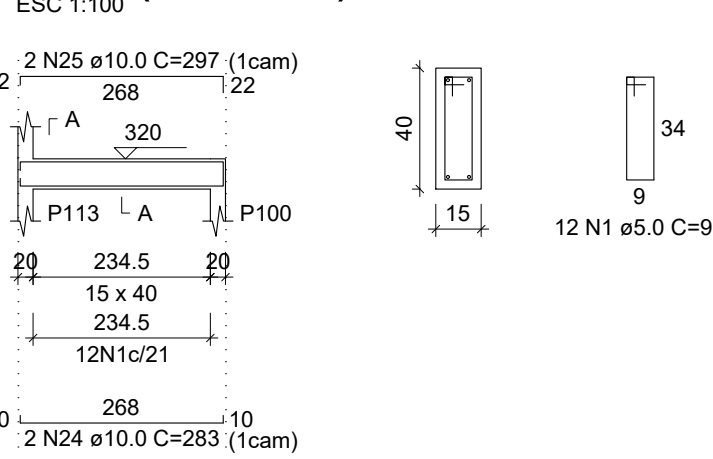
V40 (15 x 40)



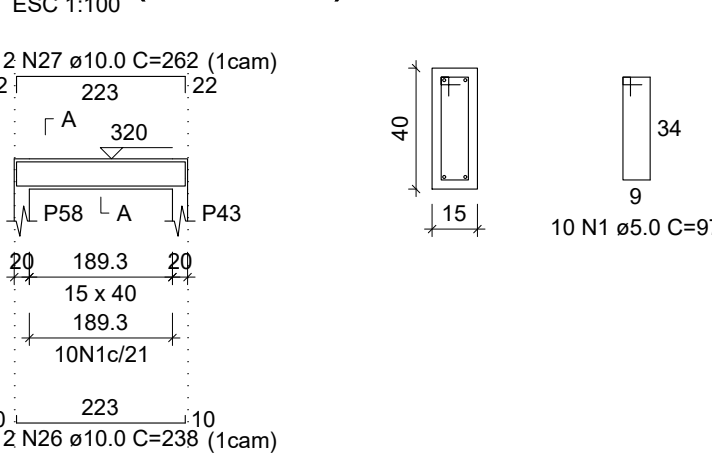
V41 (15 x 40)



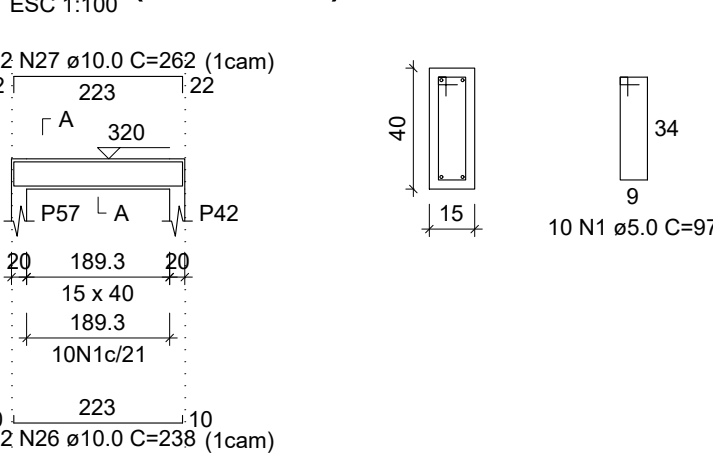
V42 (15 x 40)



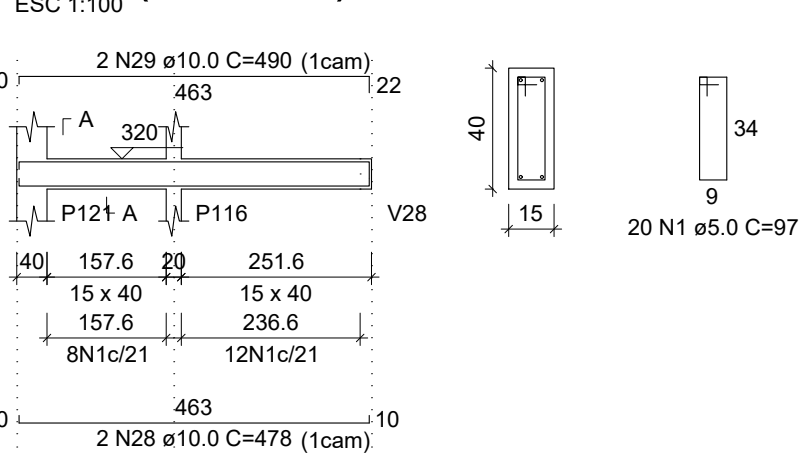
V43 (15 x 40)



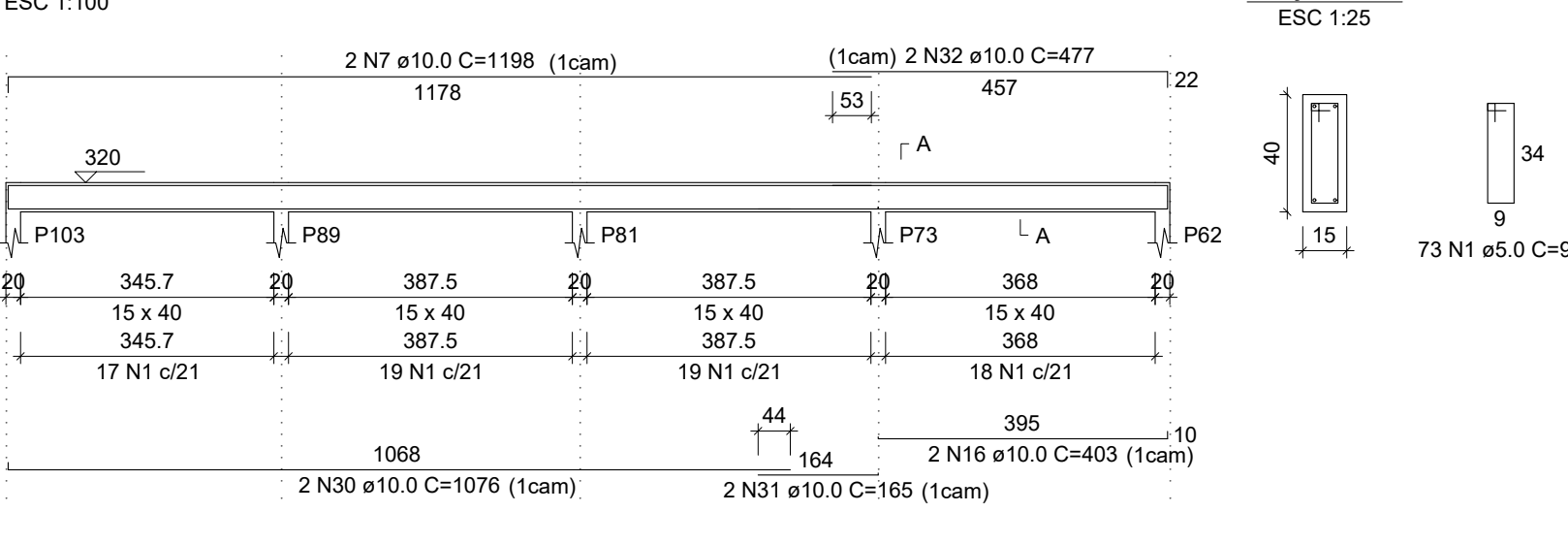
V44 (15 x 40)



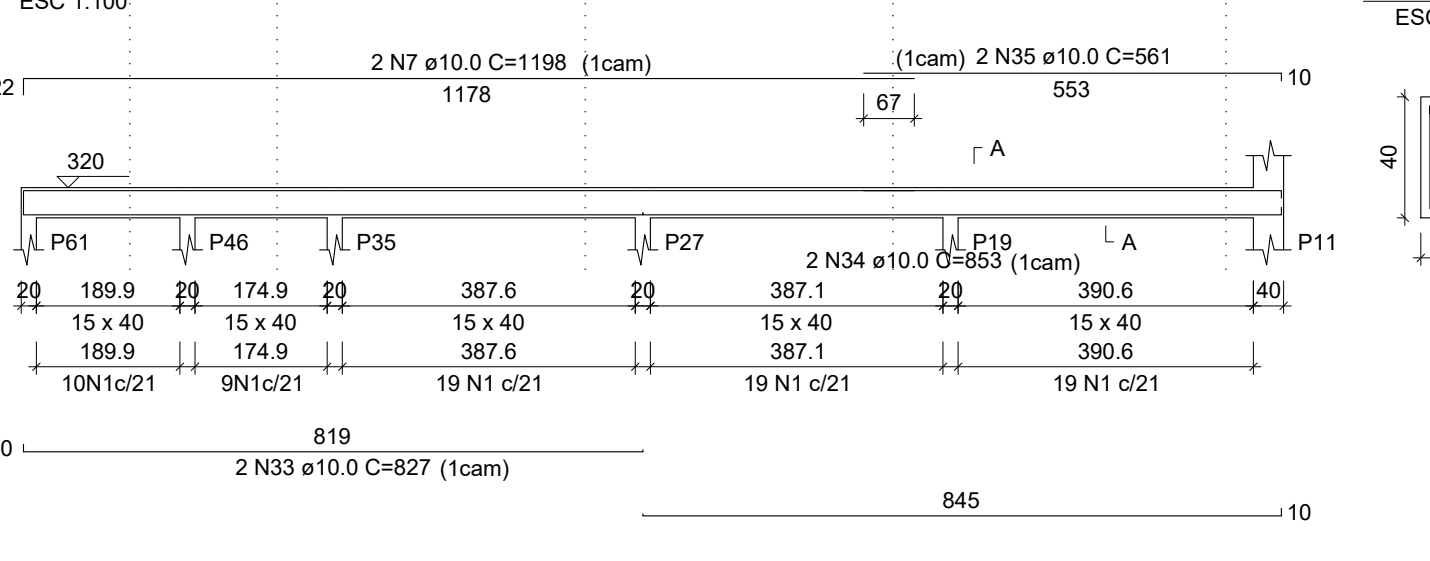
V45 (15 x 40)



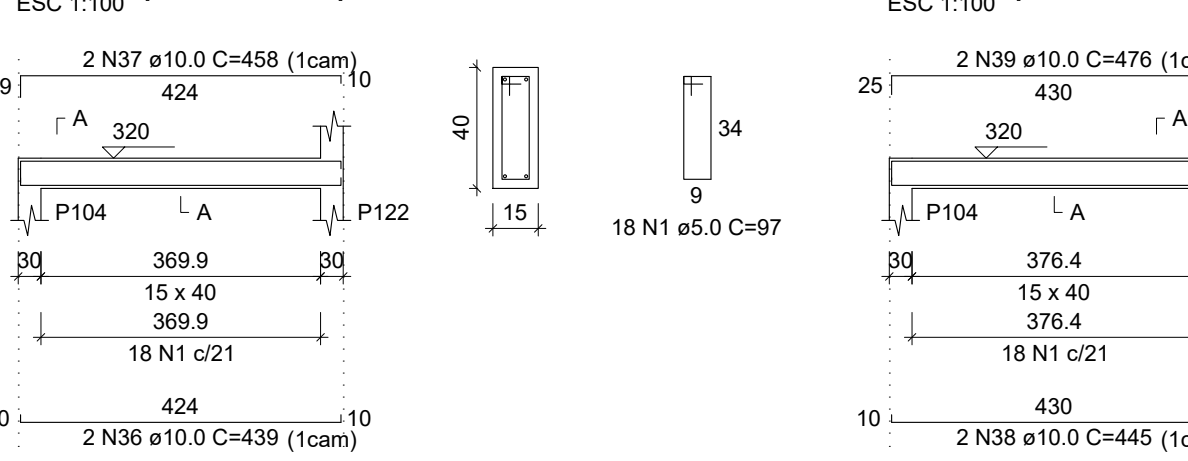
V46 (15 x 40)



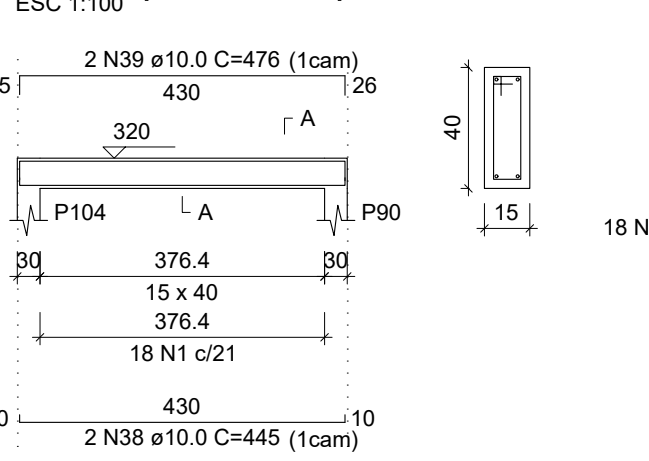
V47 (15 x 40)



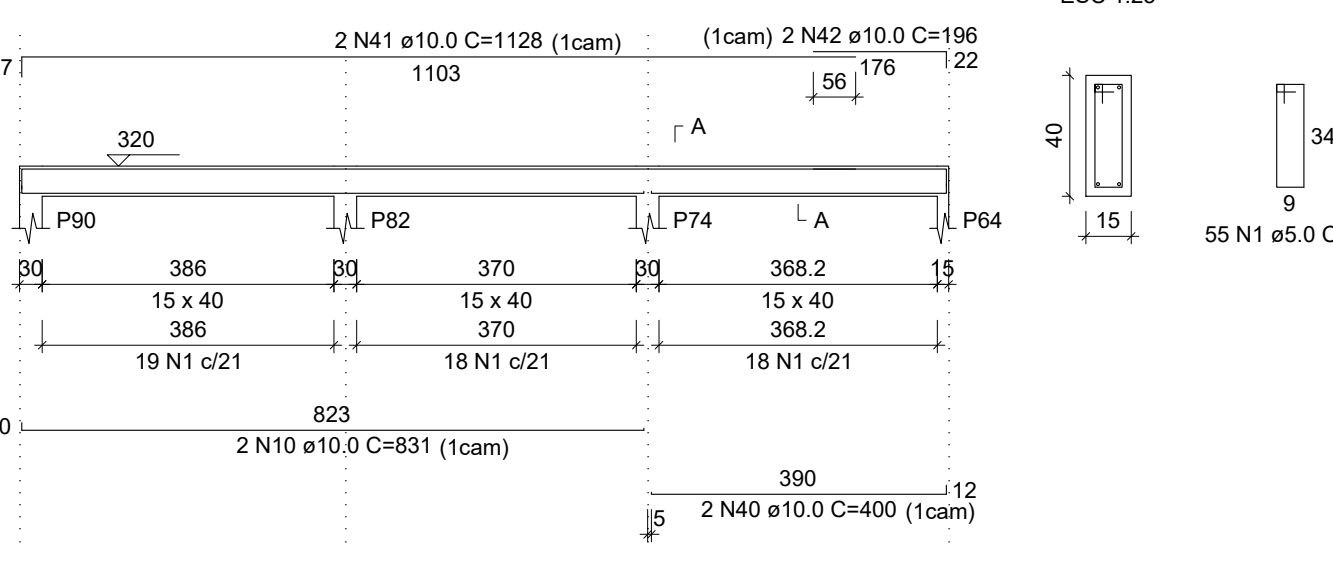
V48 (15 x 40)



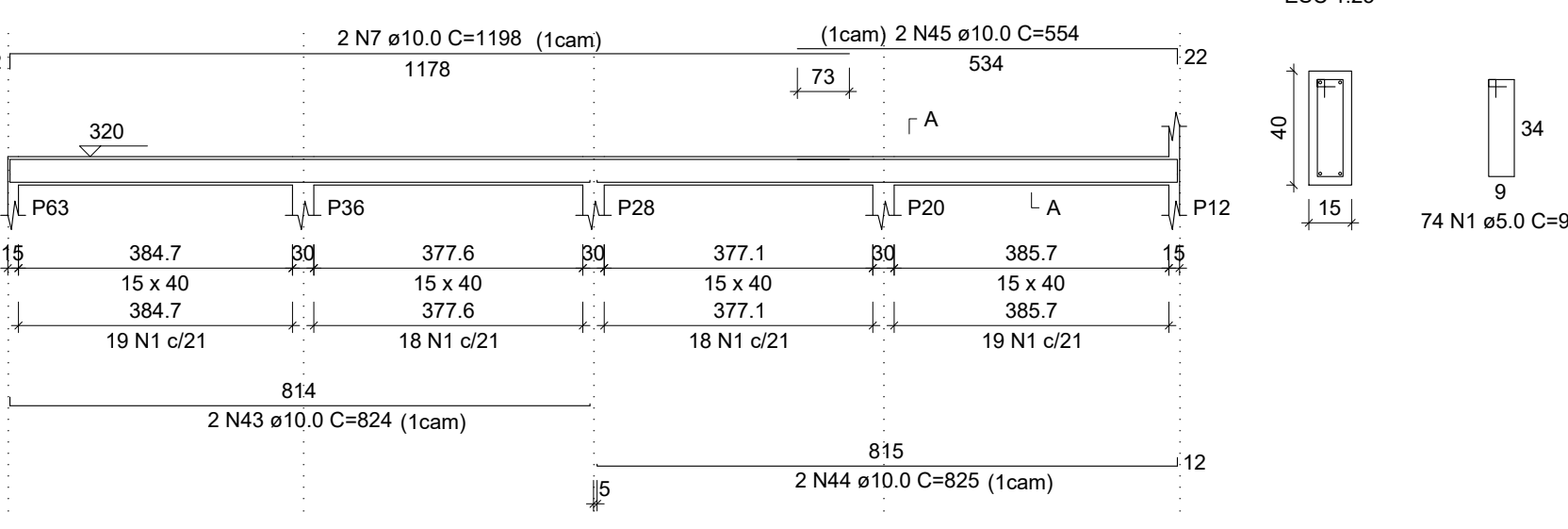
V49 (15 x 40)



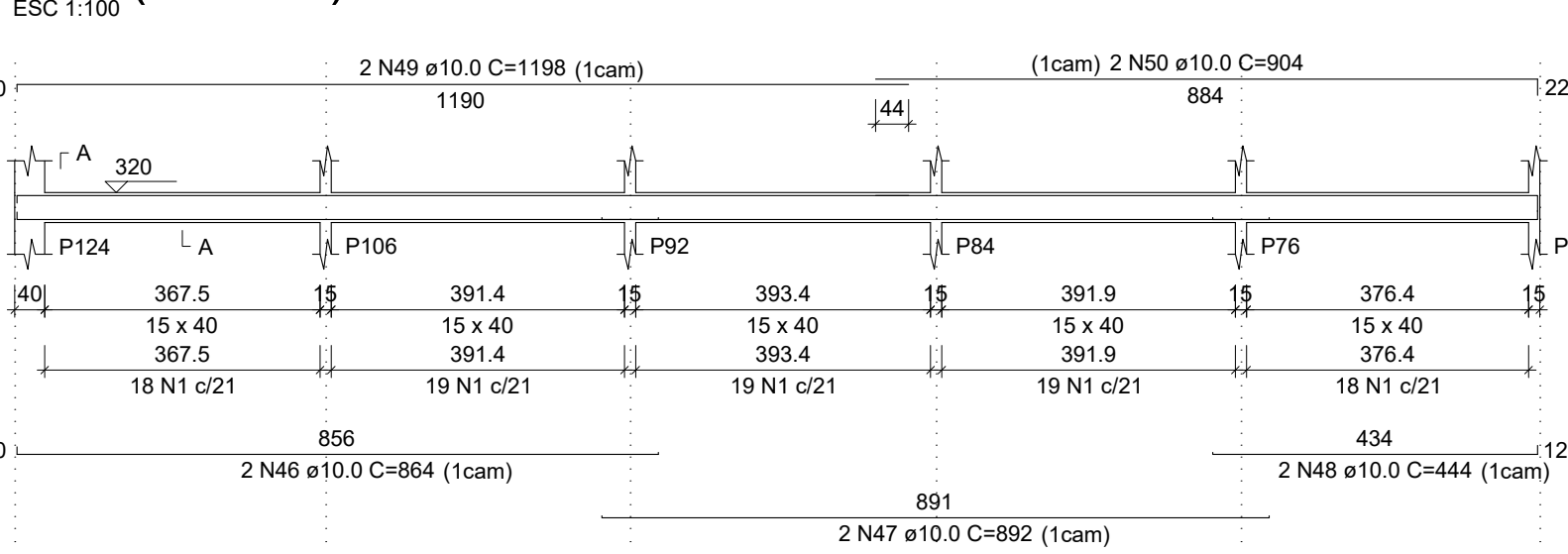
V50 (15 x 40)



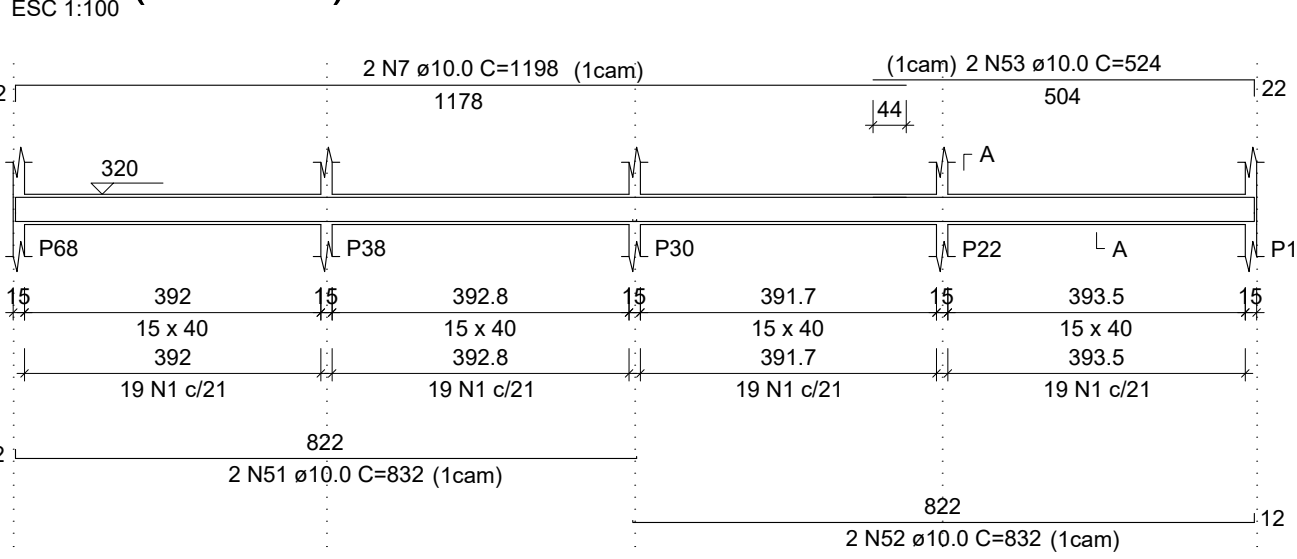
V51 (15 x 40)



V52 (15 x 40)



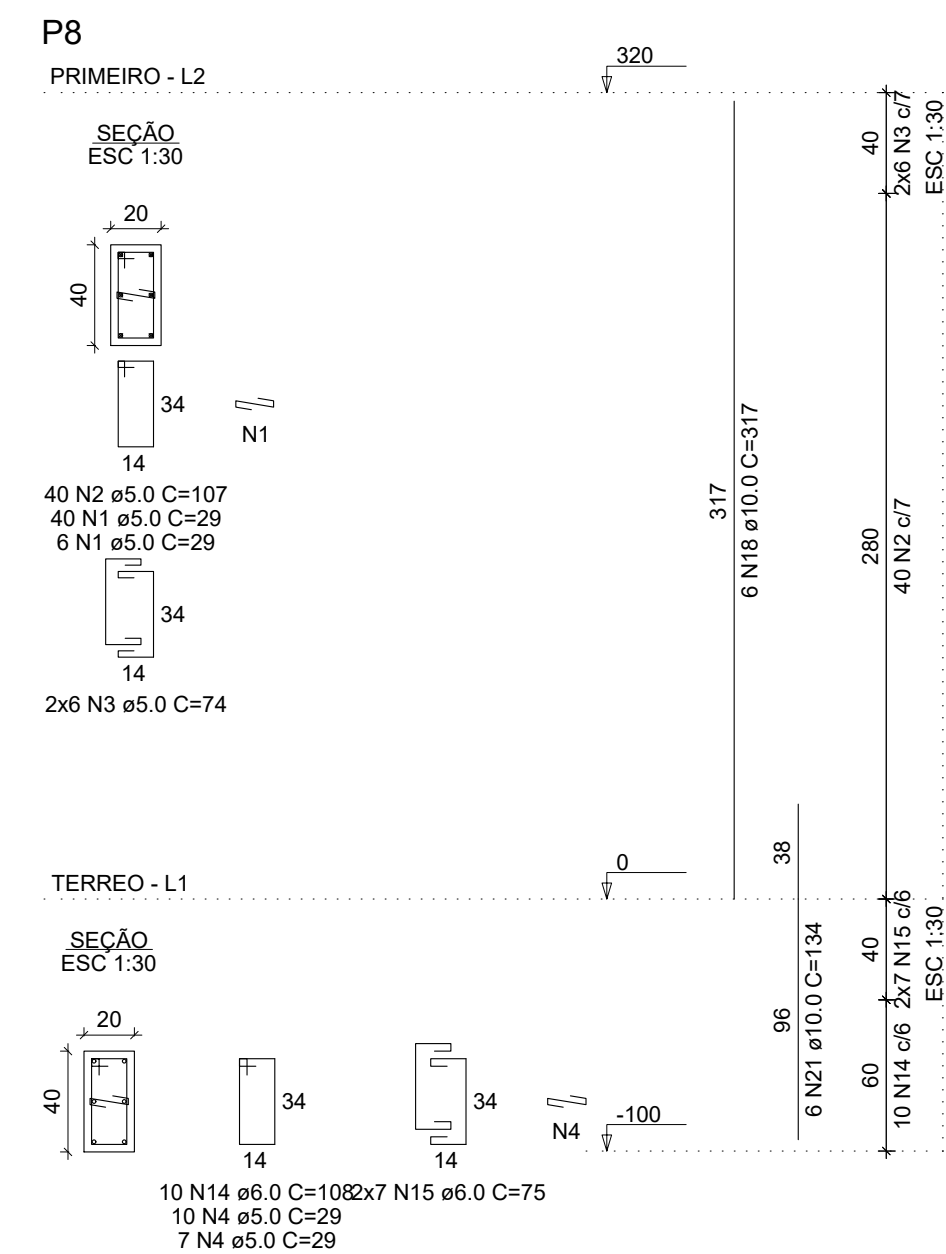
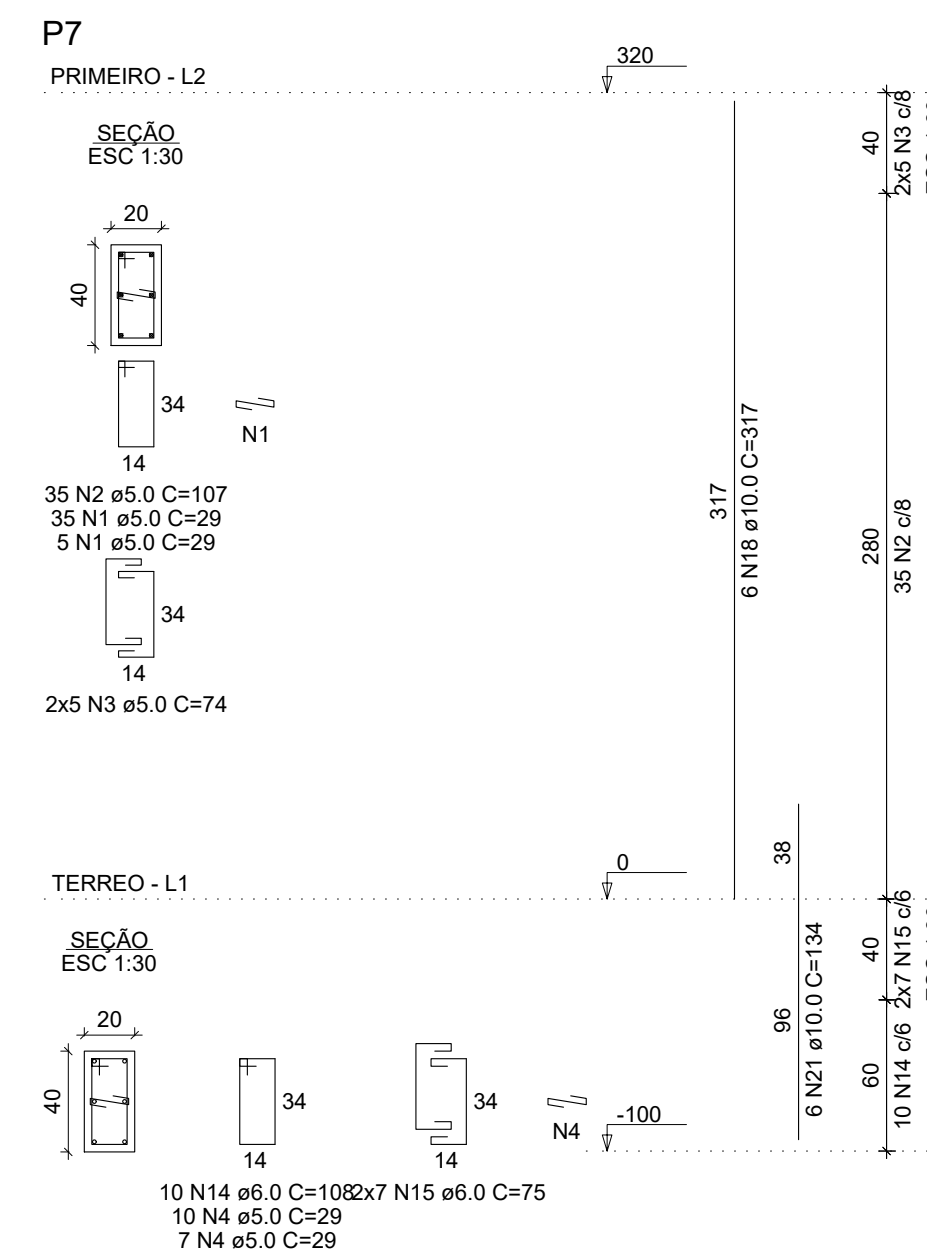
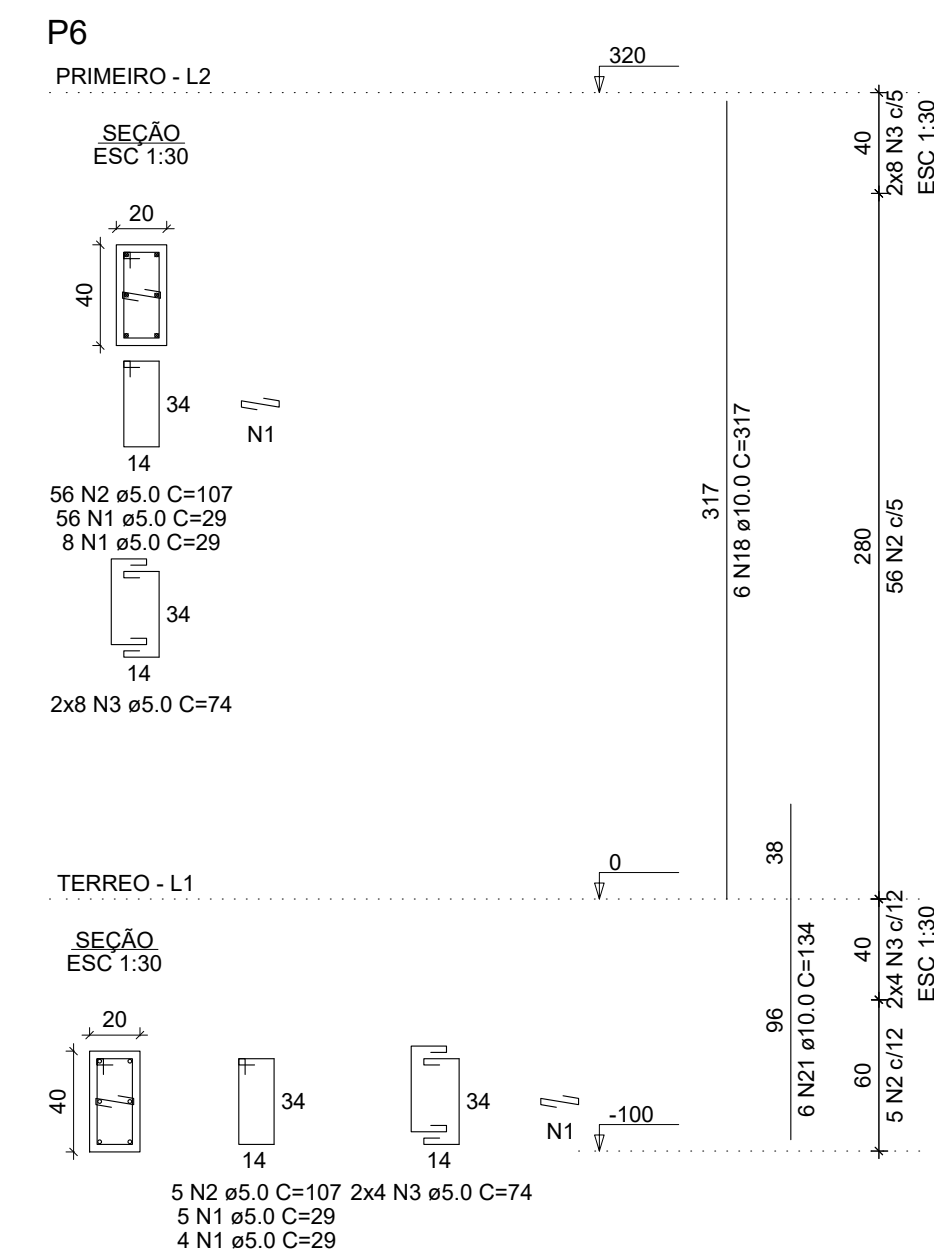
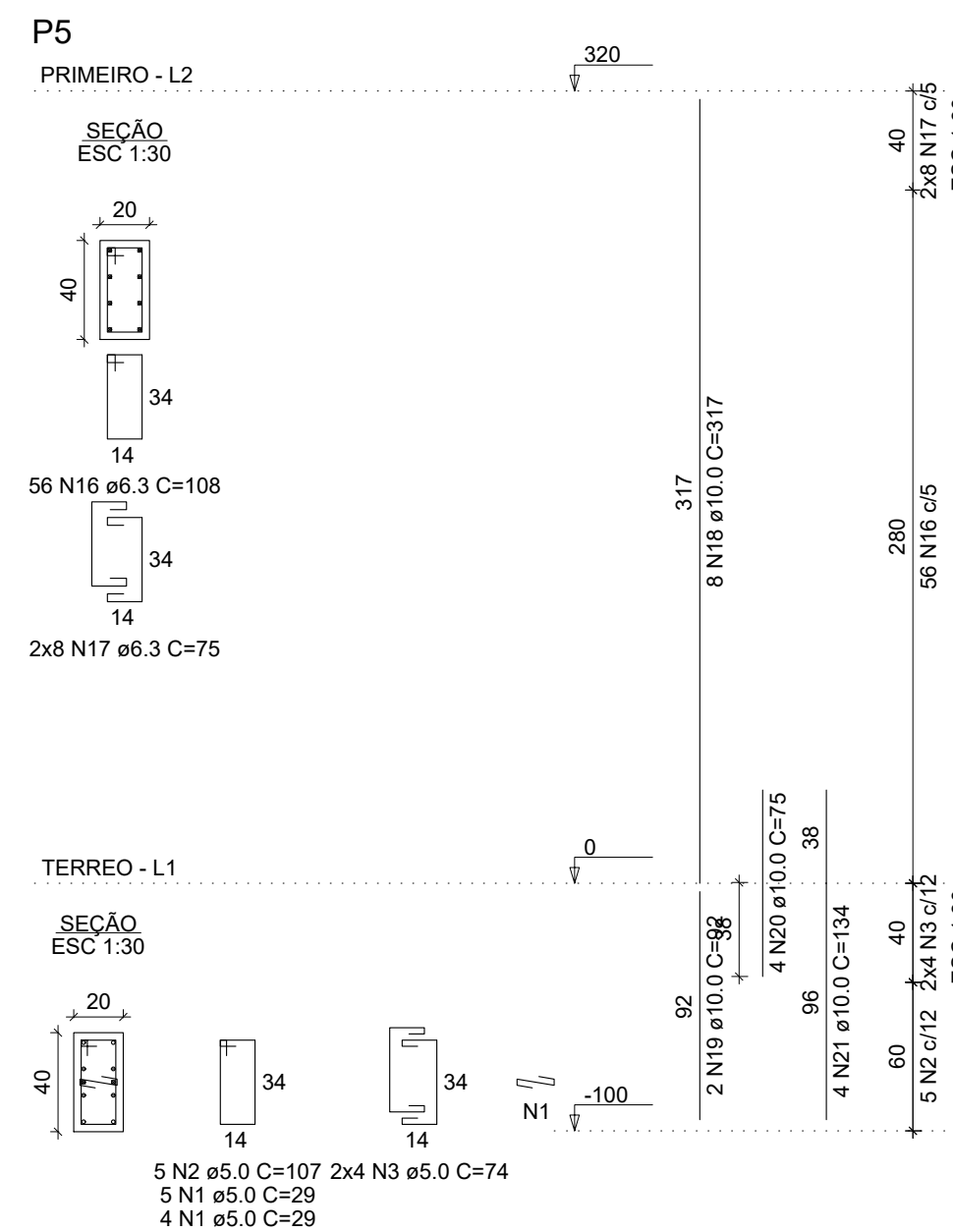
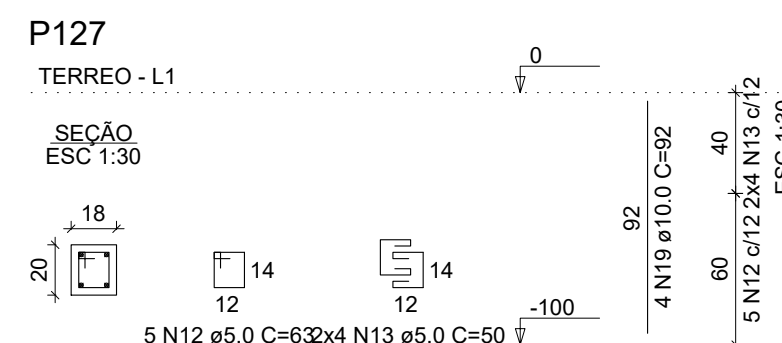
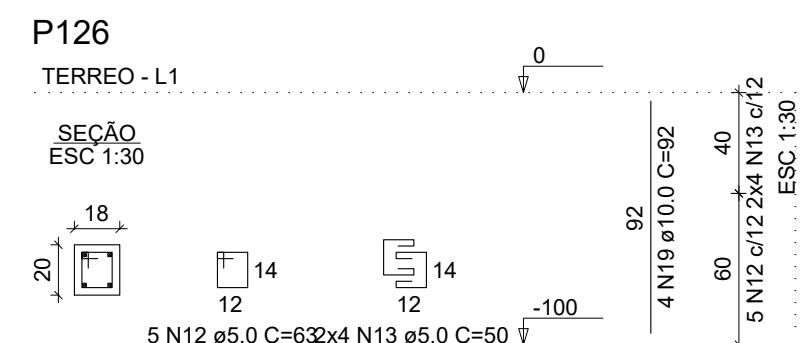
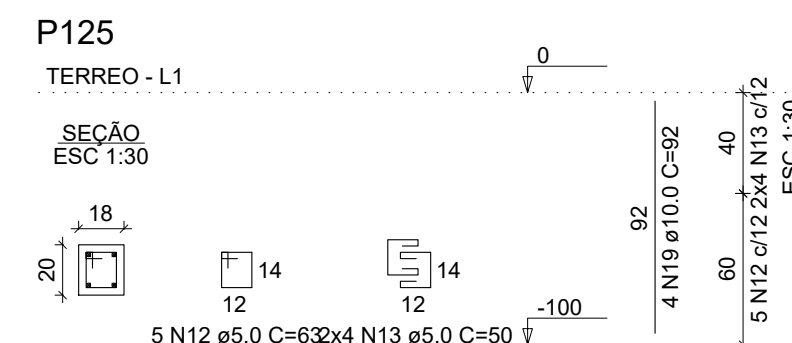
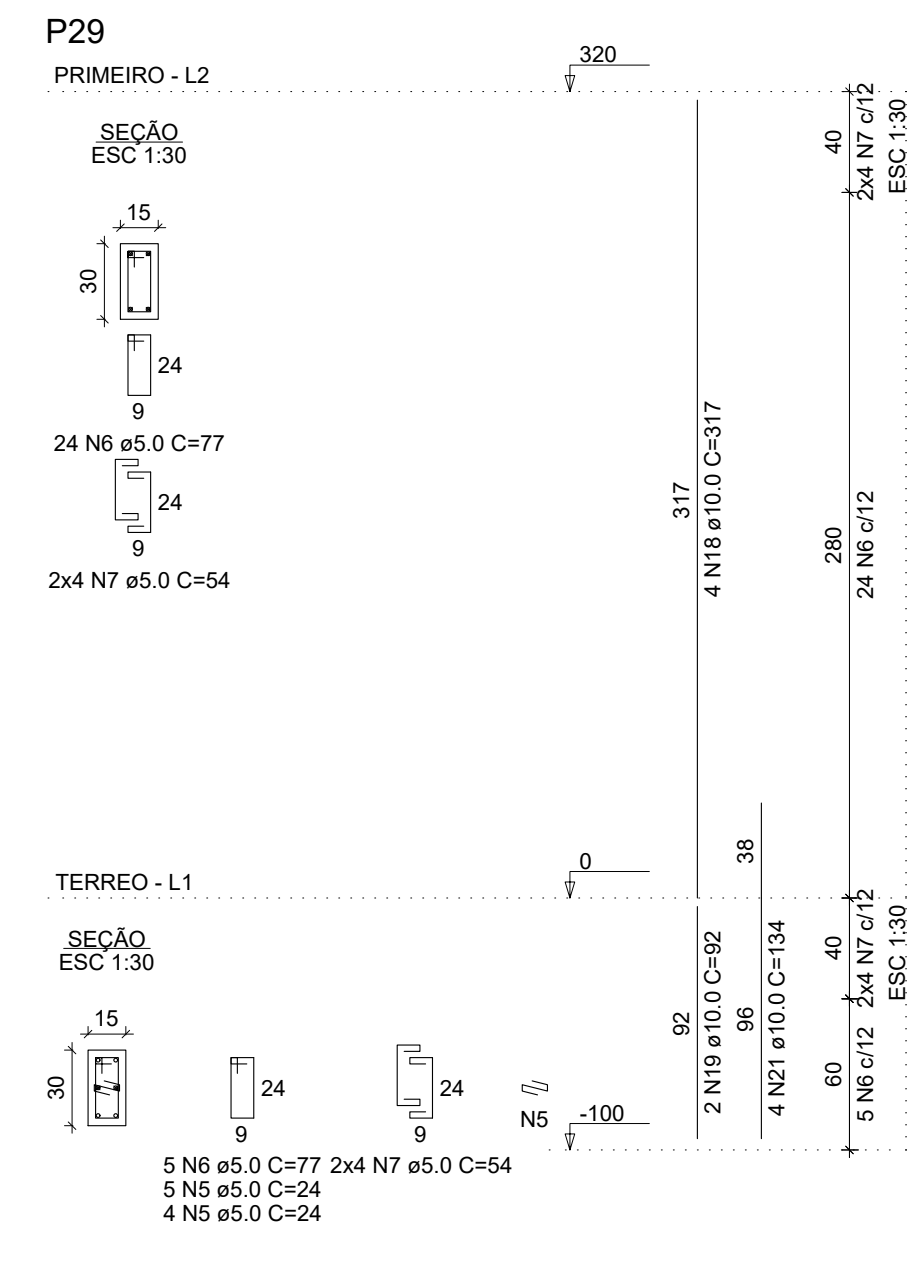
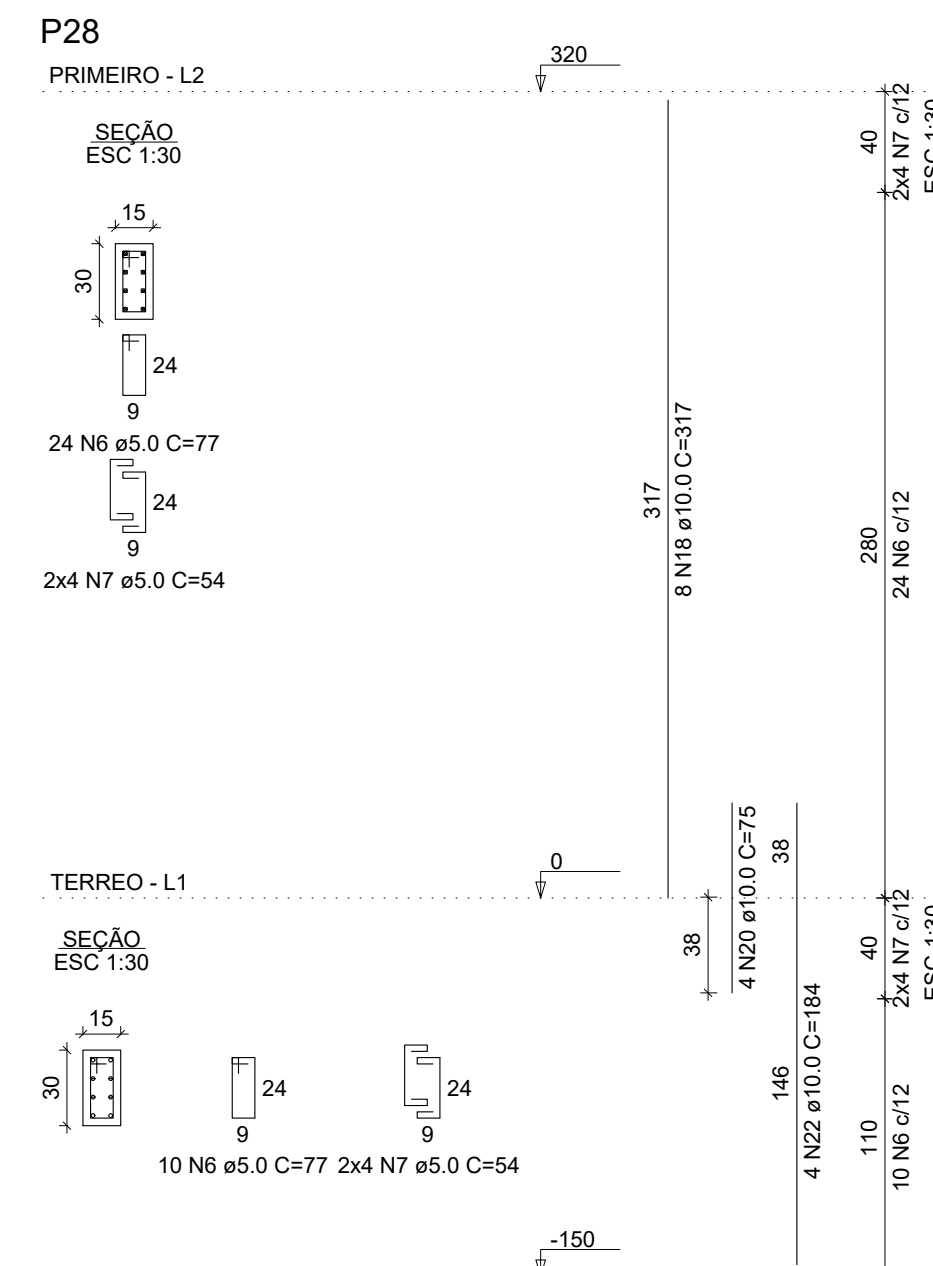
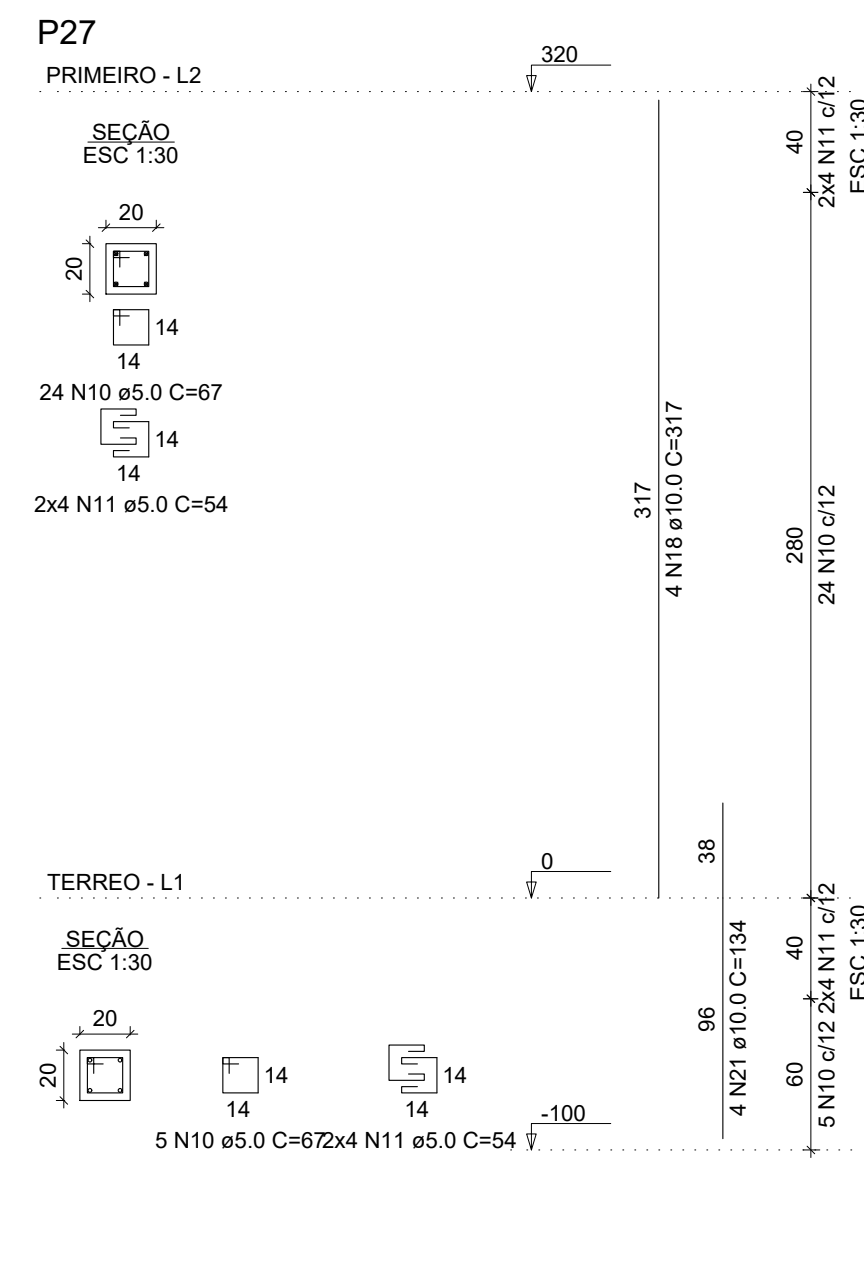
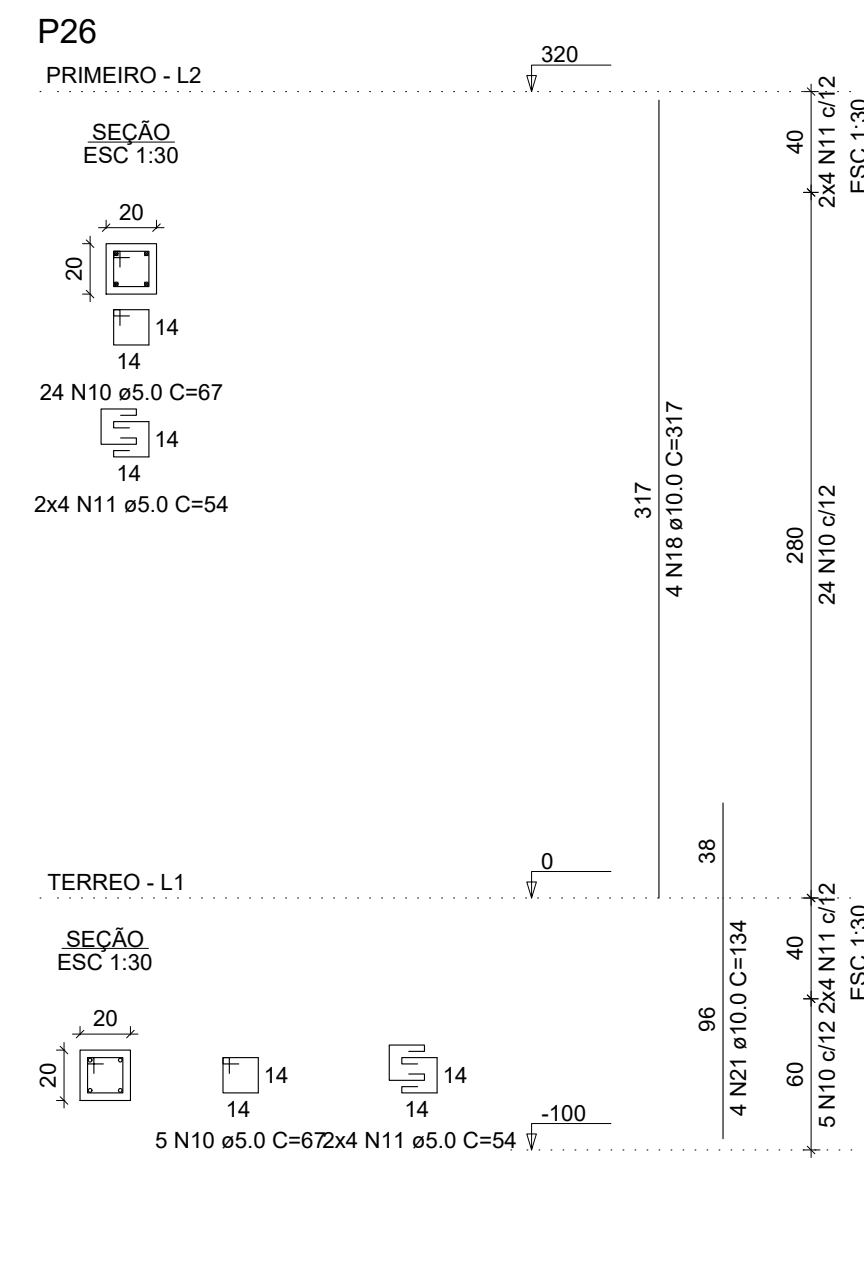
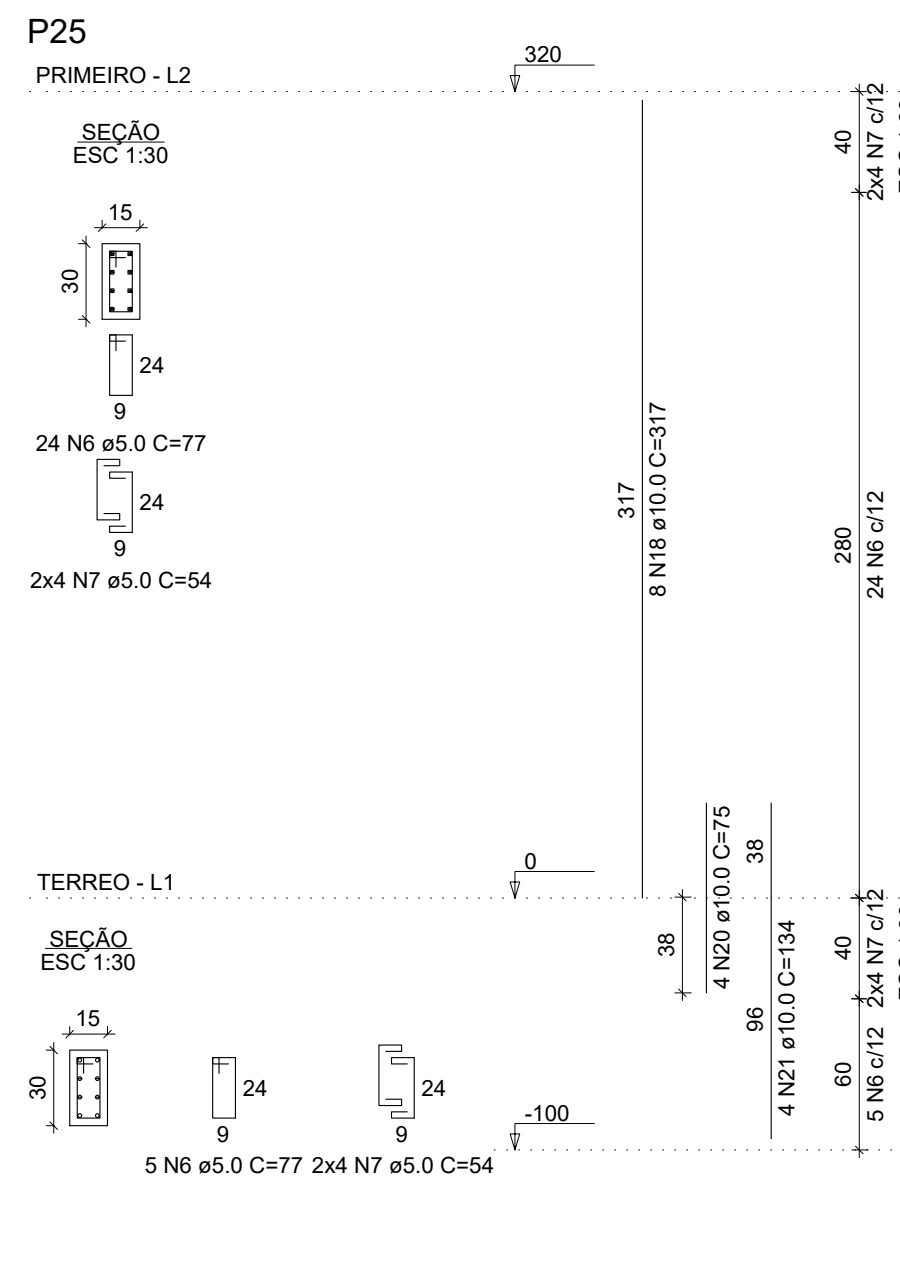
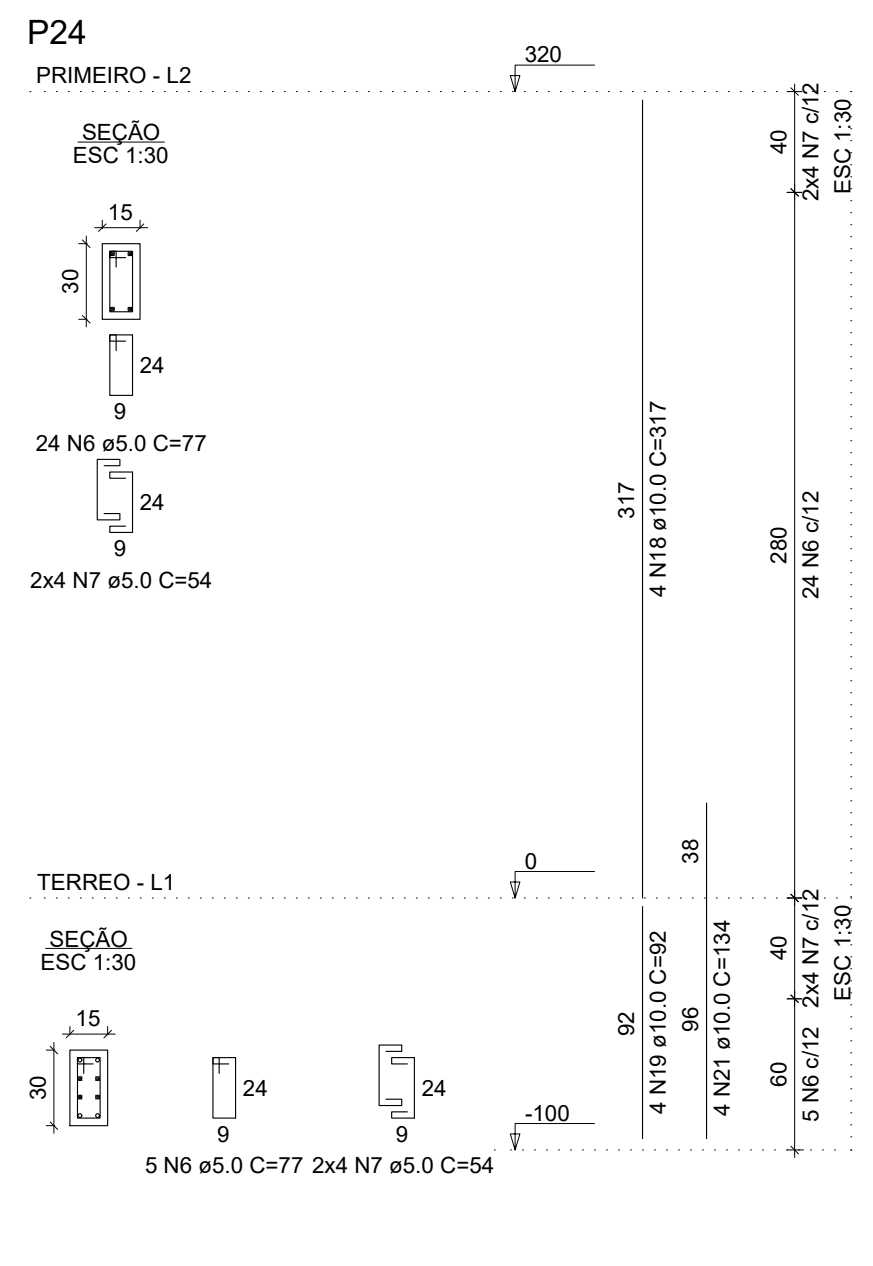
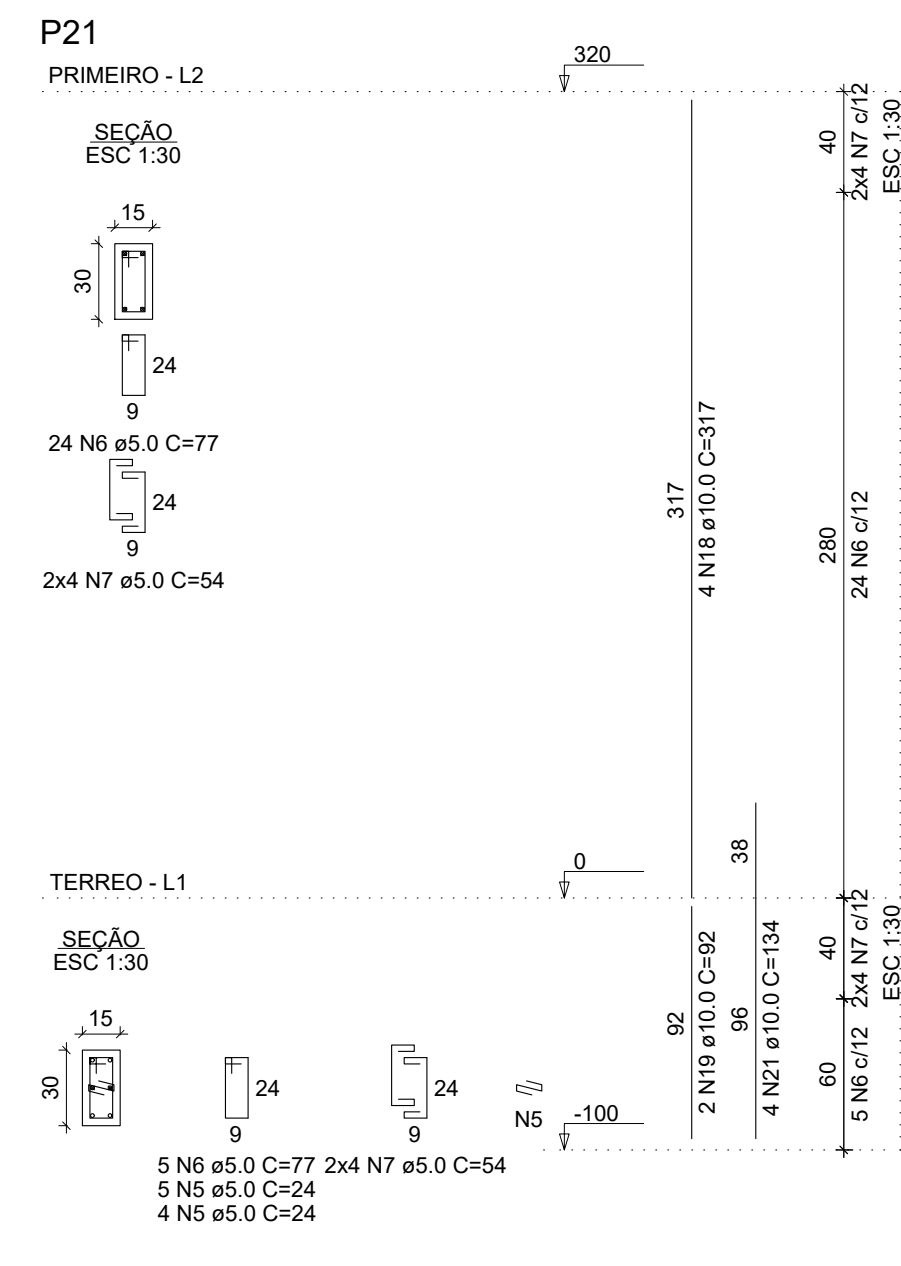
V53 (15 x 40)



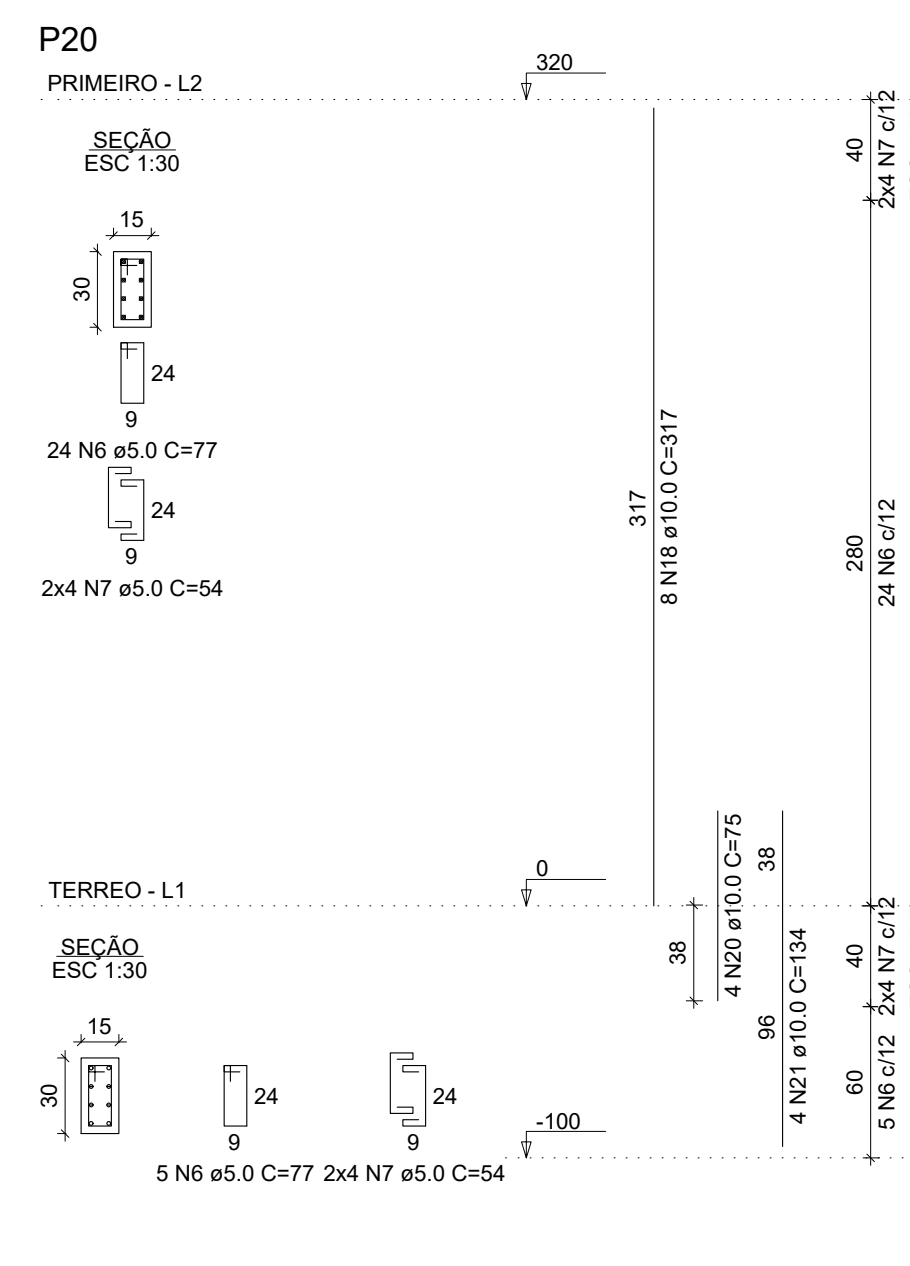
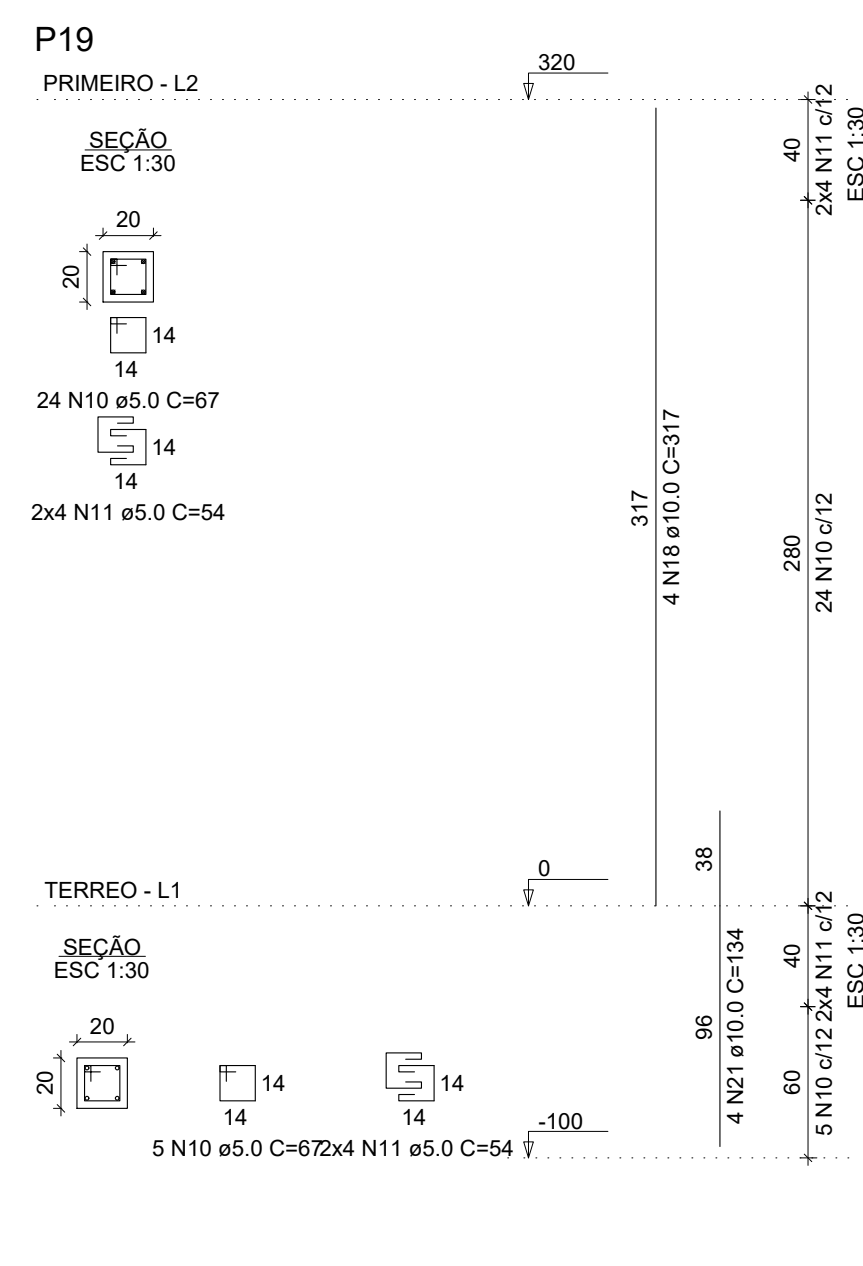
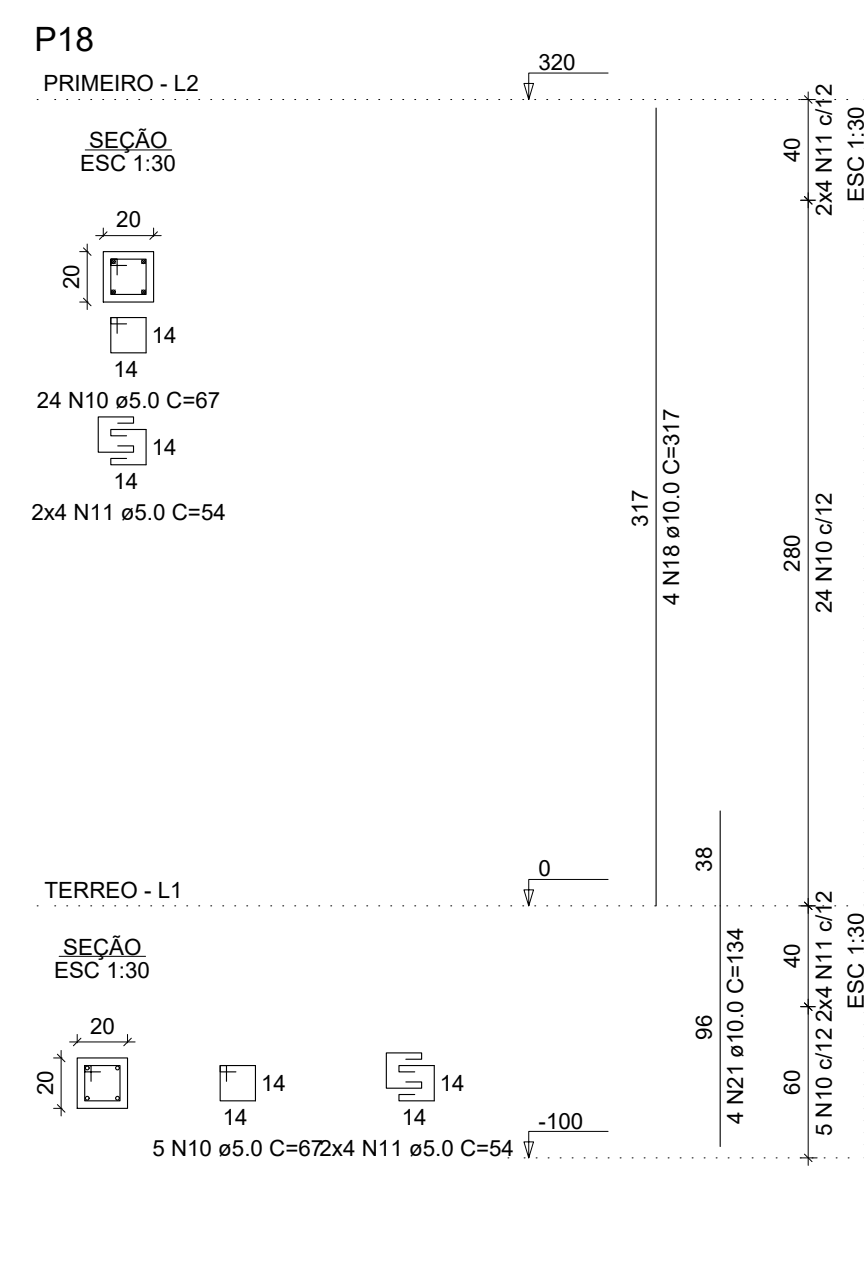
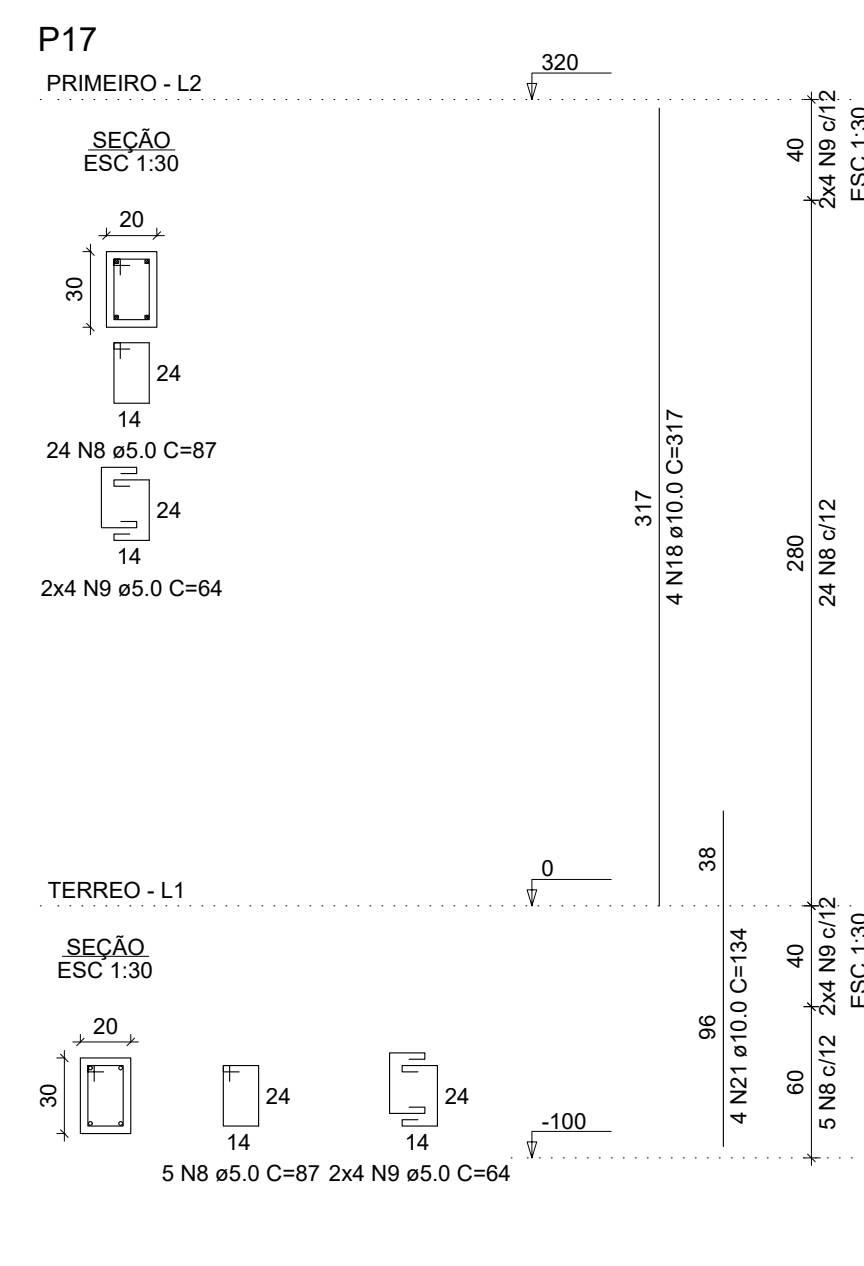
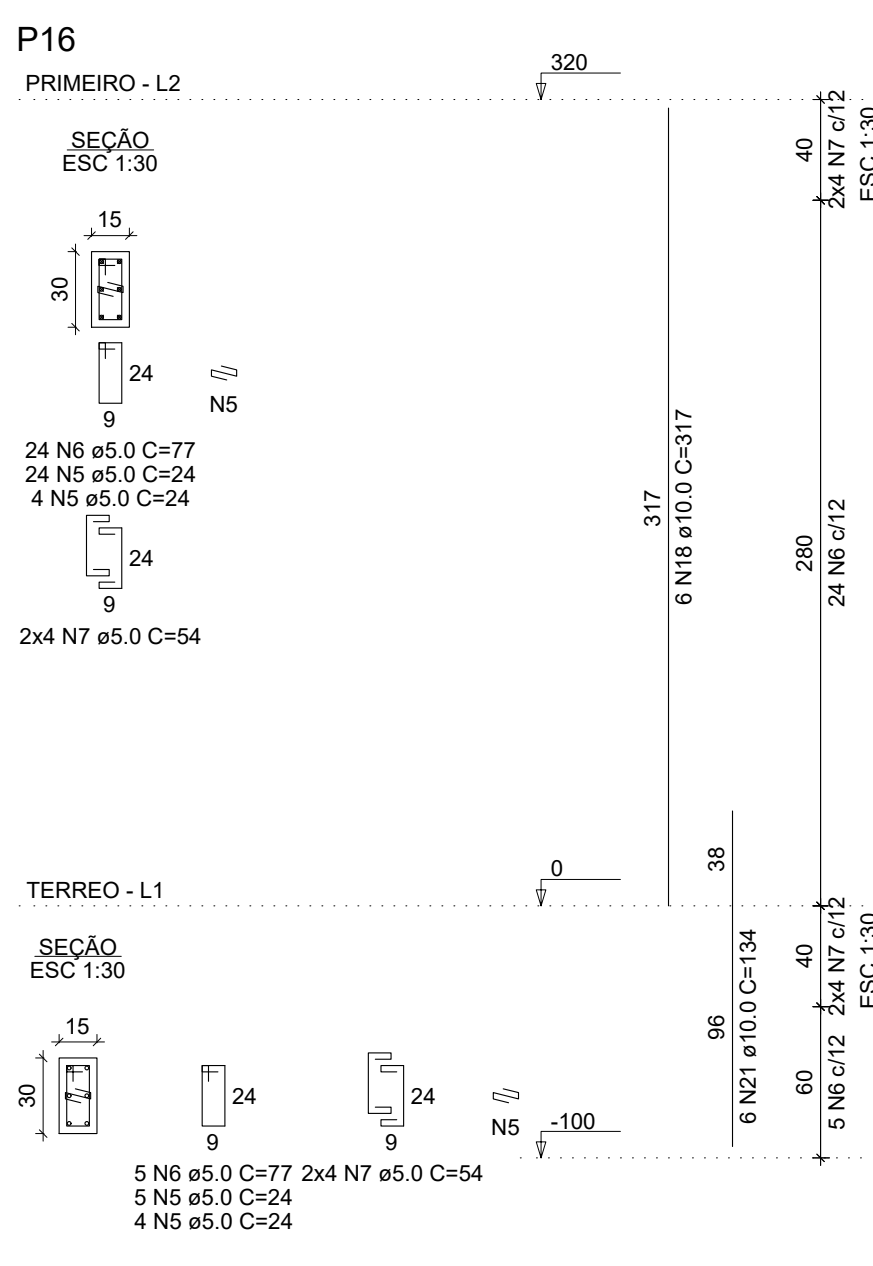
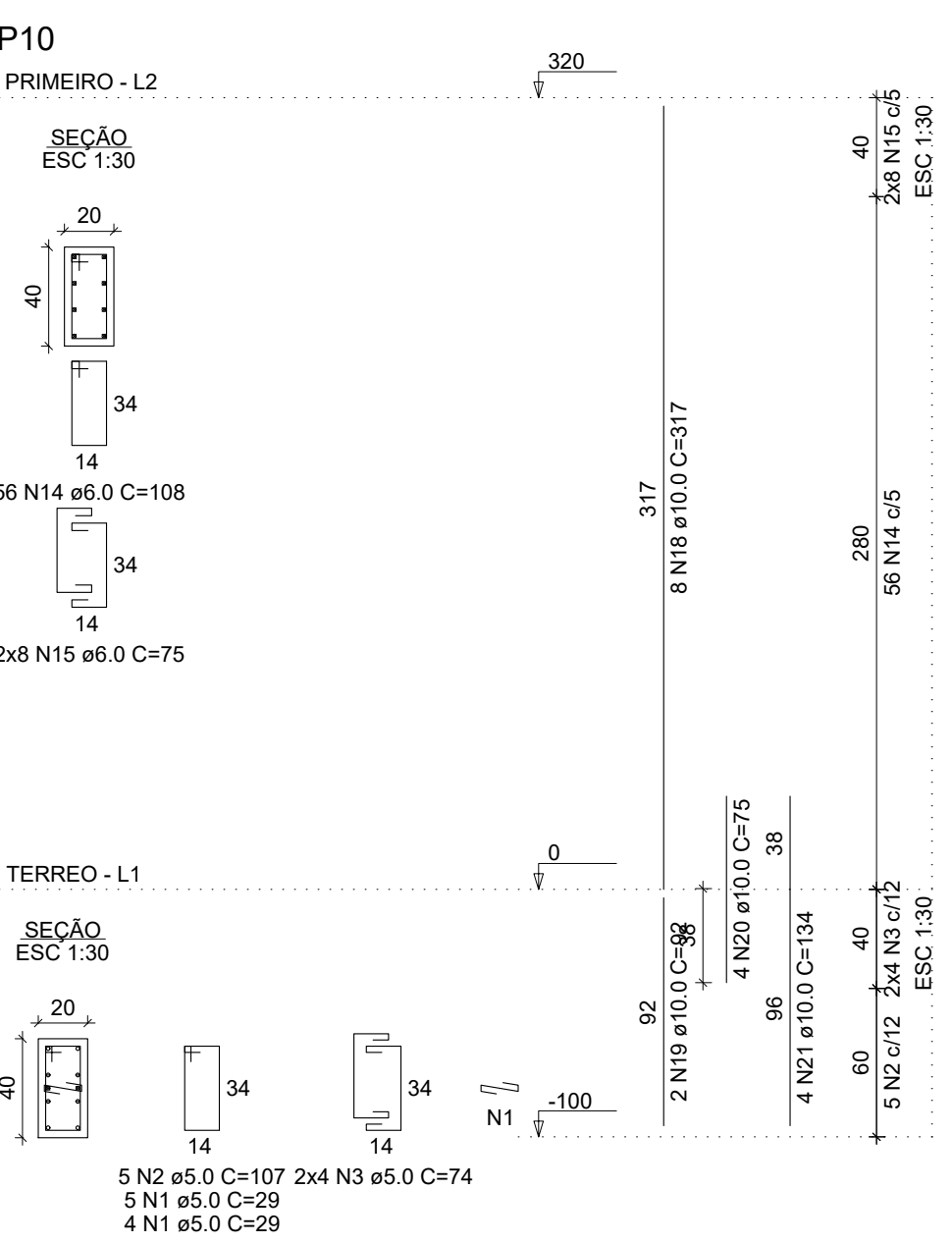
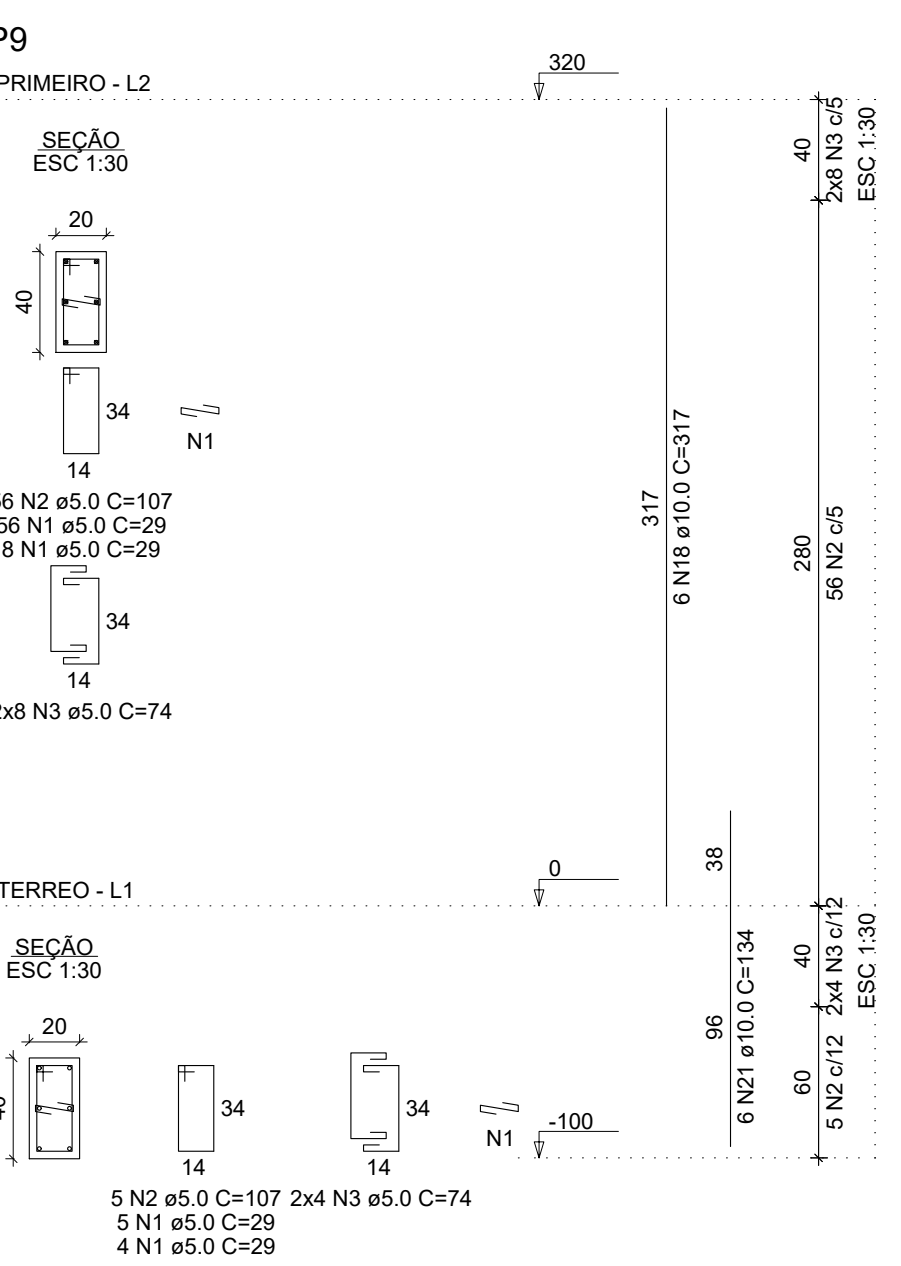
RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V36	1	5.0	918	97	89046
V37	2	10.0	2	841	1682
V38	3	10.0	2	863	1726
V39	4	10.0	2	853	1646
V40	5	10.0	2	805	1610
V41	6	10.0	2	851	1662
V42	7	10.0	12	1198	14376
V43	8	10.0	2	1200	2400
V44	9	10.0	2	217	434
V45	10	10.0	4	631	2524
V46	11	10.0	2	441	882
V47	12	10.0	2	1161	2322
V48	13	10.0	2	190	380
V49	14	10.0	2	830	1660
V50	15	10.0	2	816	1632
V51	16	10.0	2	403	806
	17	10.0	2	1199	2398
	18	10.0	2	920	1840
	19	10.0	2	828	1656
	20	10.0	2	854	1708
	21	10.0	2	553	1106
	22	10.0	2	284	568
	23	10.0	2	298	596
	24	10.0	2	263	526
	25	10.0	2	297	594
	26	10.0	4	238	952
	27	10.0	4	262	1048
	28	10.0	2	478	956
	29	10.0	2	490	980
	30	10.0	2	1076	2152
	31	10.0	2	165	330
	32	10.0	2	477	954
	33	10.0	2	827	1654
	34	10.0	2	853	1706
	35	10.0	2	561	1122
	36	10.0	2	439	878
	37	10.0	2	458	916
	38	10.0	2	445	890
	39	10.0	2	476	952
	40	10.0	2	400	800
	41	10.0	2	1128	2256
	42	10.0	2	196	392
	43	10.0	2	824	1648
	44	10.0	2	825	1650
	45	10.0	2	554	1108
	46	10.0	2	864	1728
	47	10.0	2	892	1784
	48	10.0	2	444	888
	49	10.0	2	1198	2396
	50	10.0	2	904	1808
	51	10.0	2	832	1664
	52	10.0	2	832	1664
	53	10.0	2	524	1048

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT
CASO	10.0	847	71	522.2
CABO	5.0	890.5	-	robo (170 kg)

PESO TOTAL (kg)	
CASO	522.2
CABO	137.3
Volume de concreto (C-25) = 12.26 m³	
Área de forma = 194.04 m²	

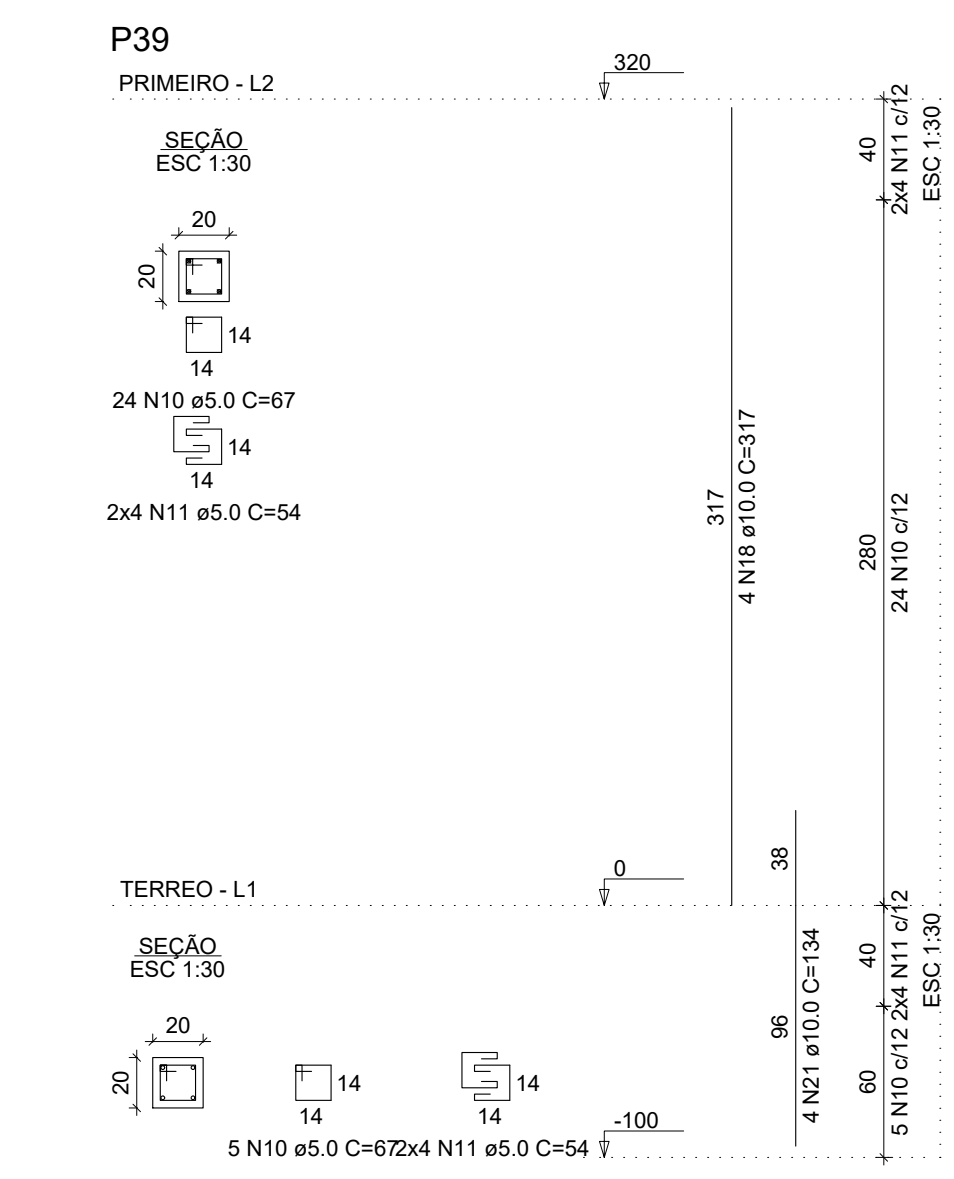
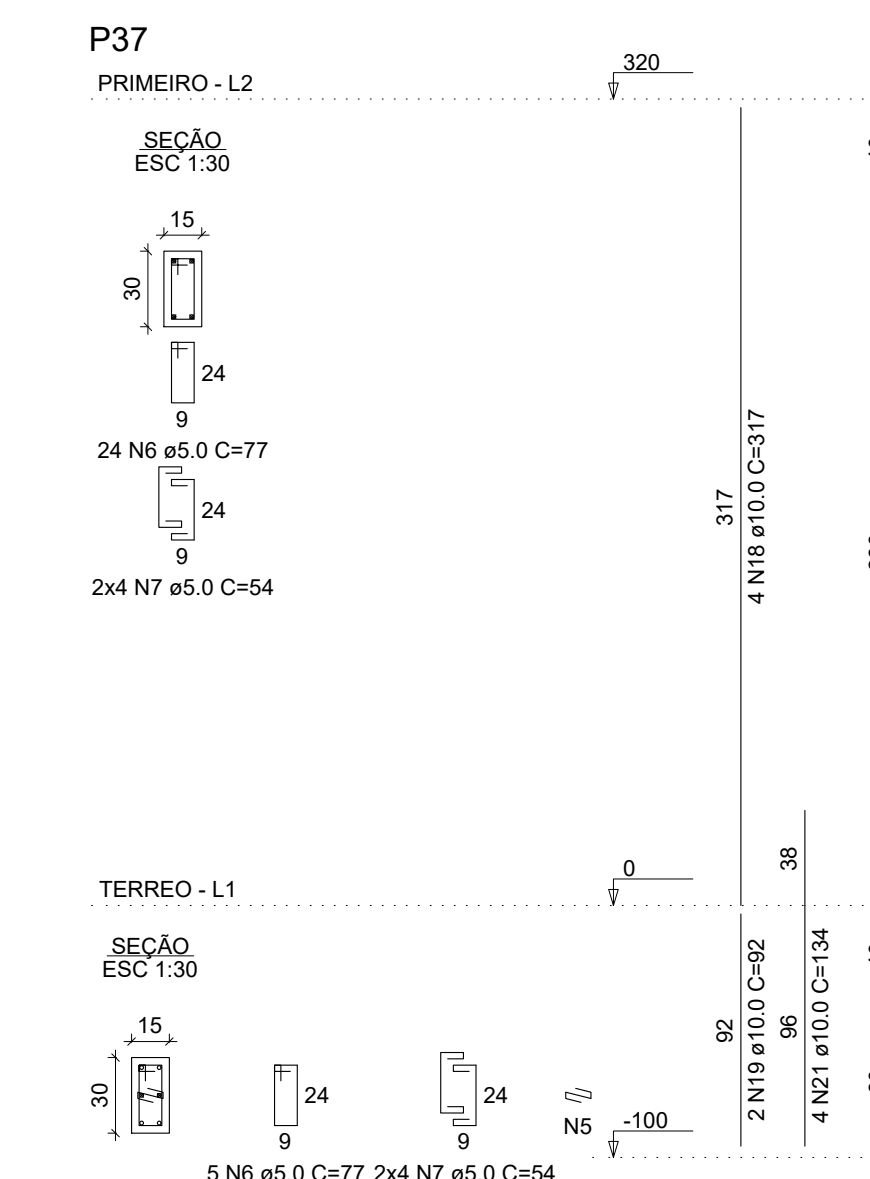
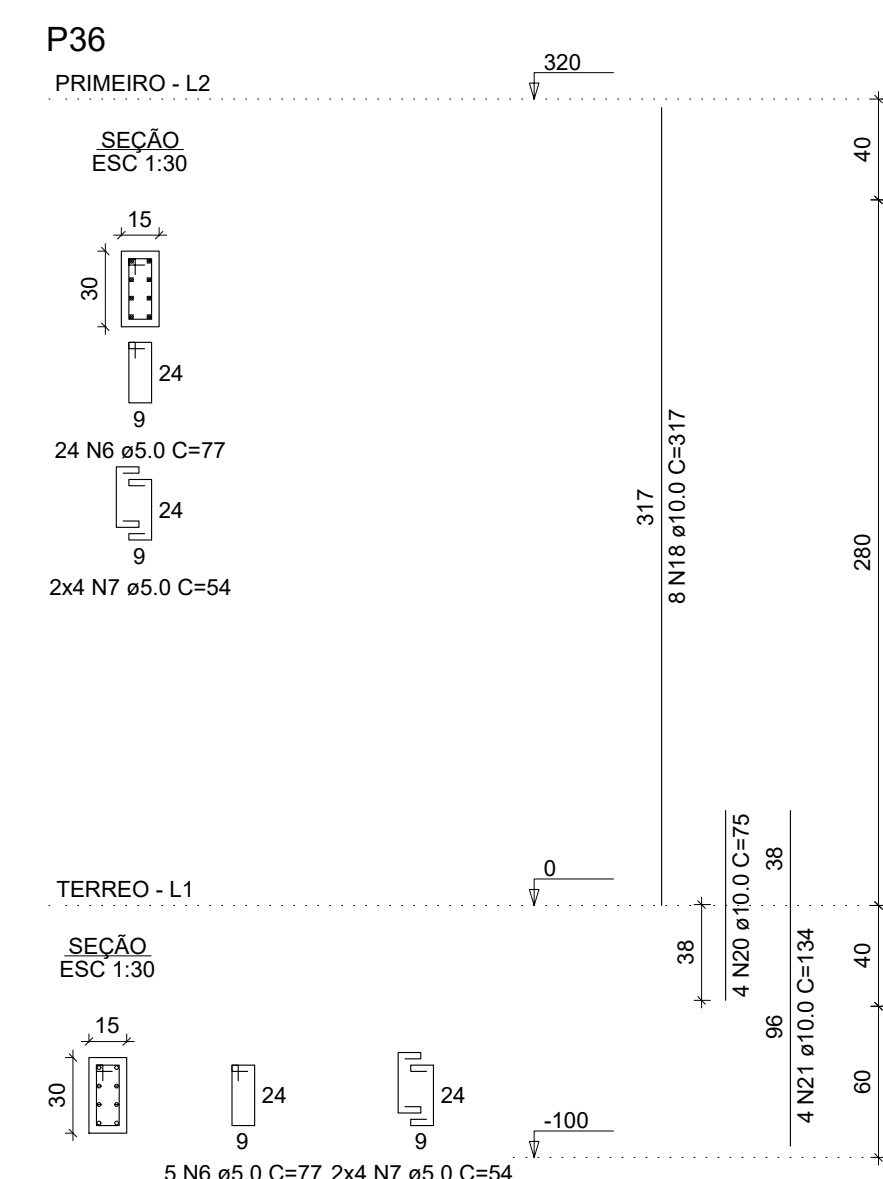
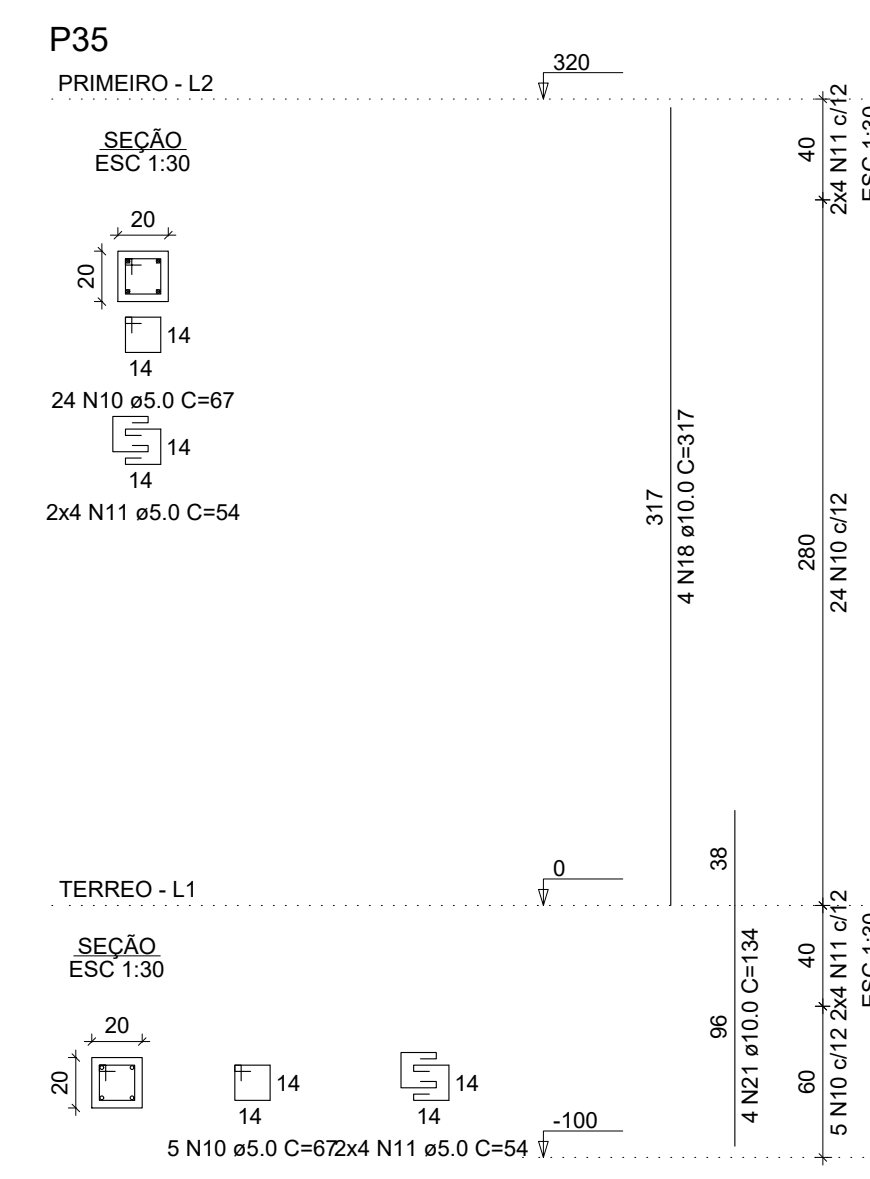
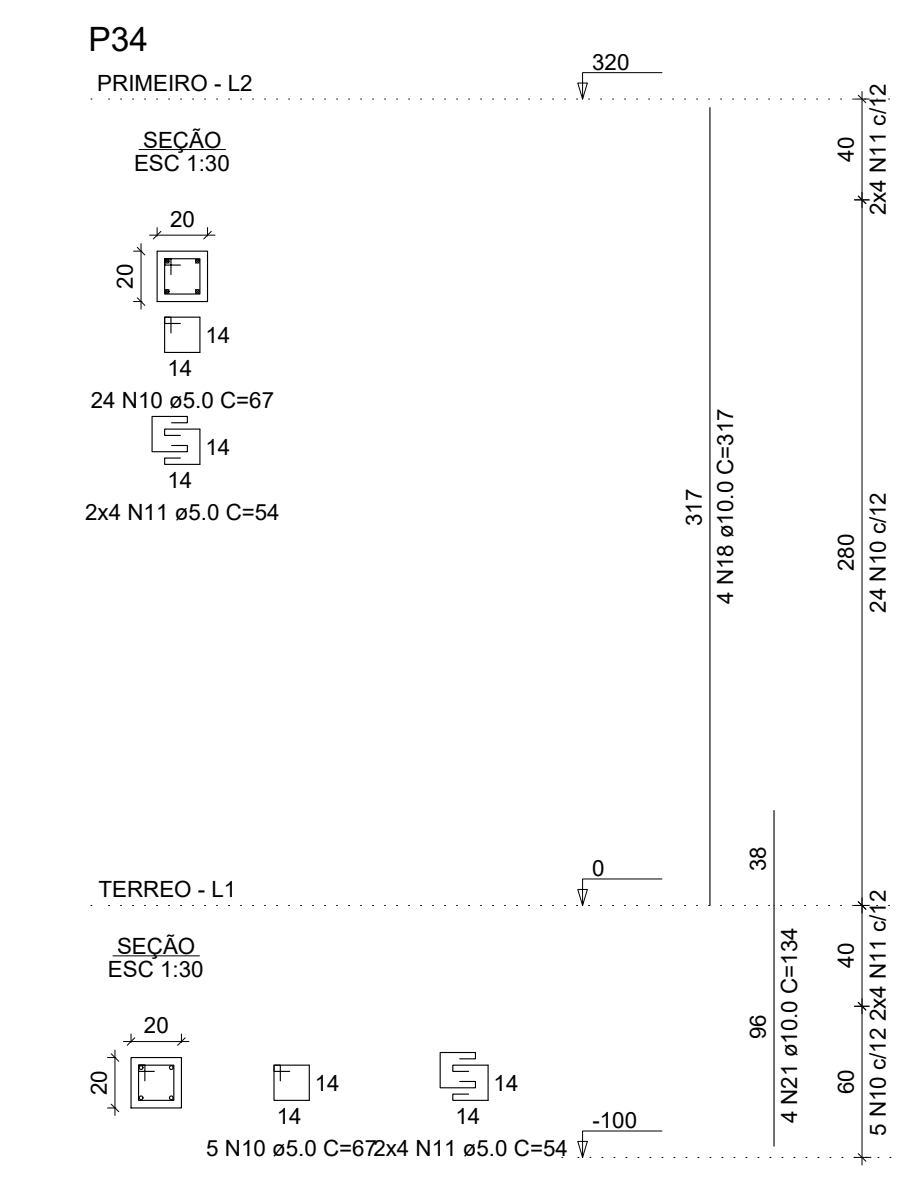
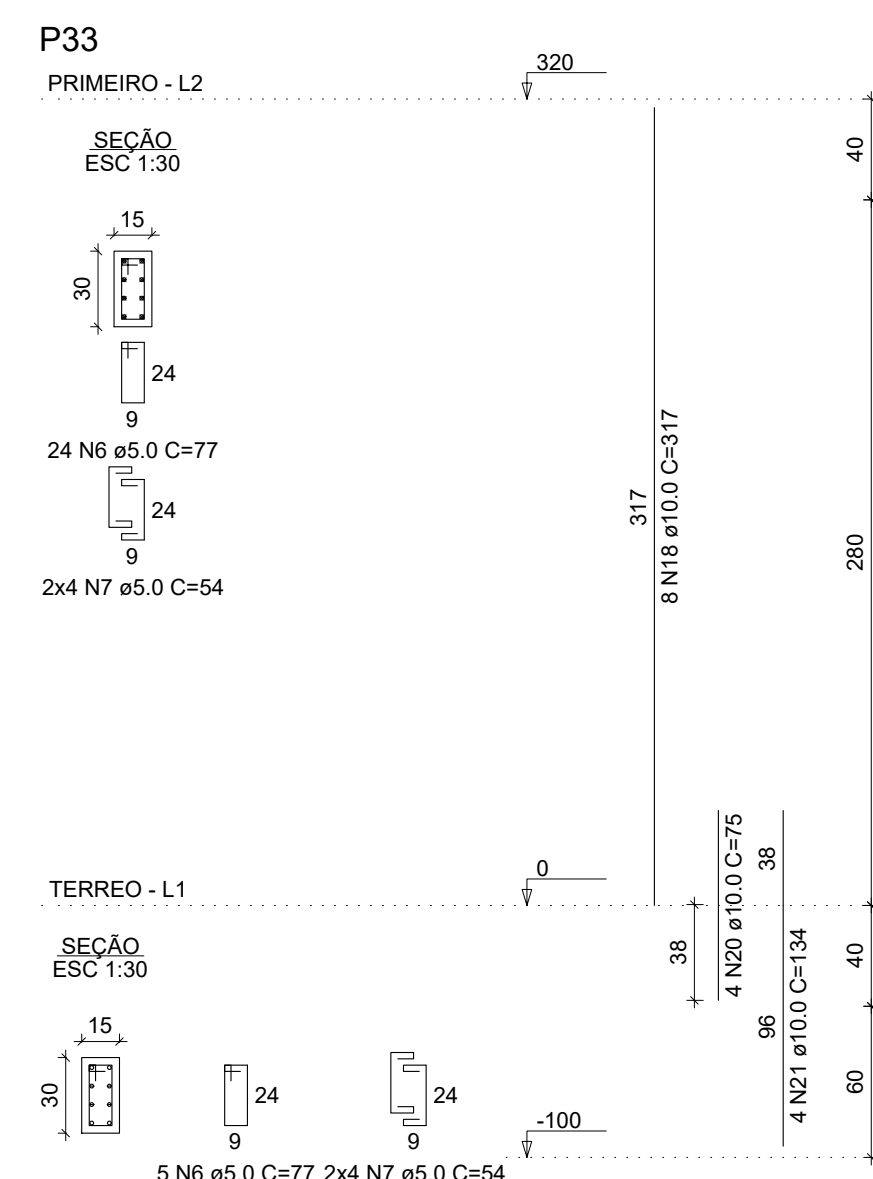
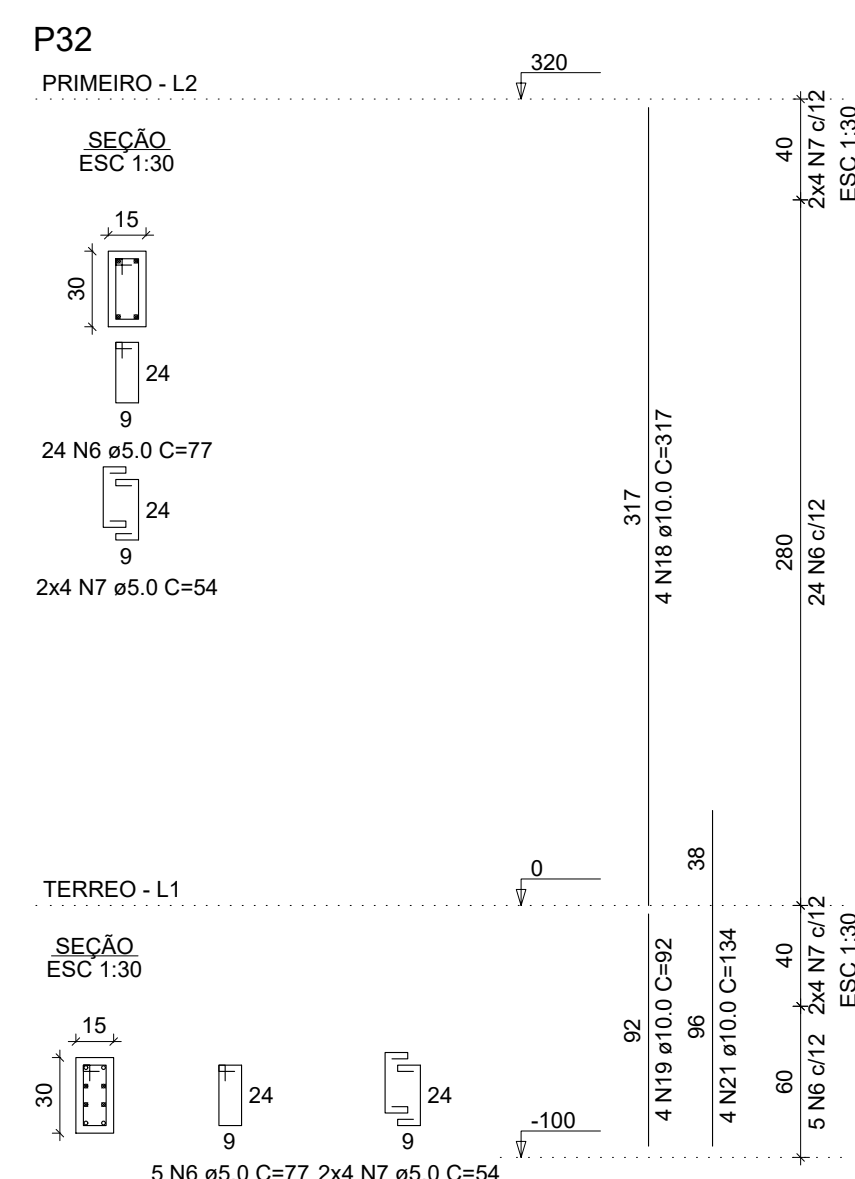


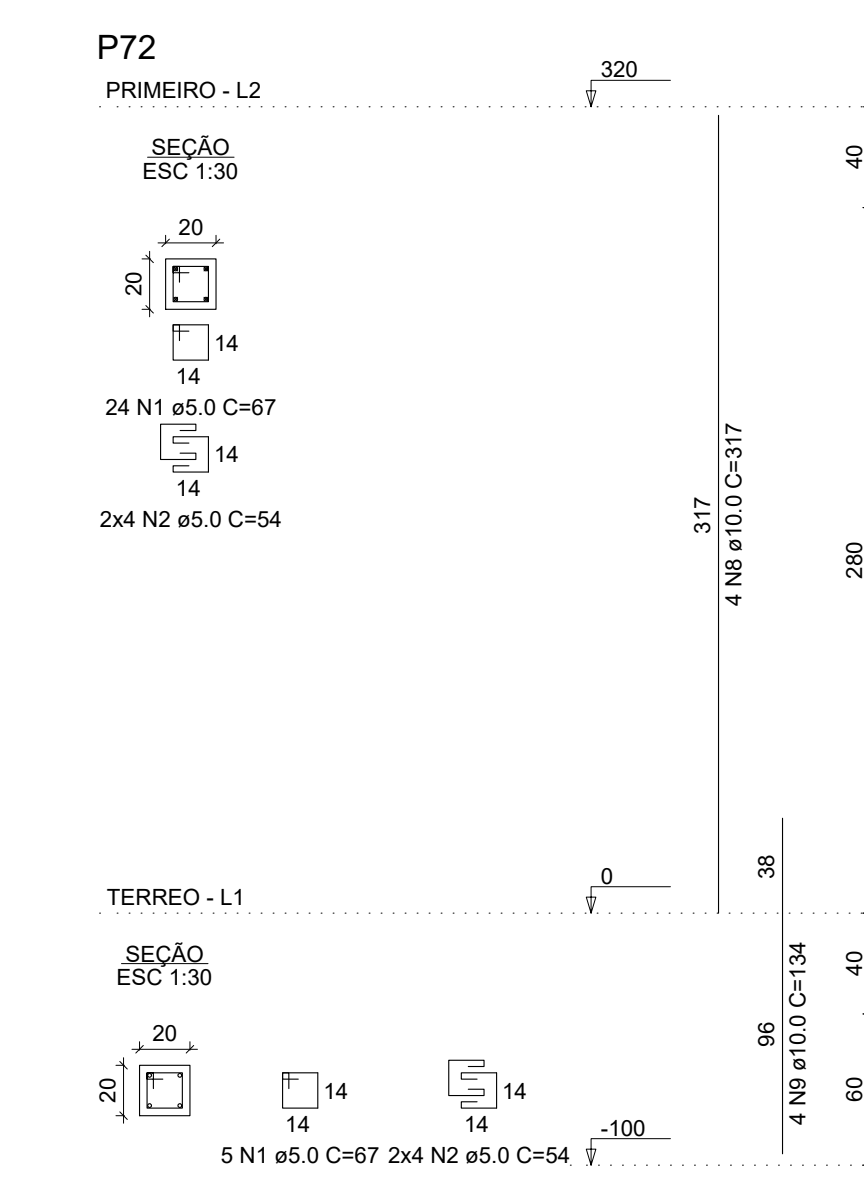
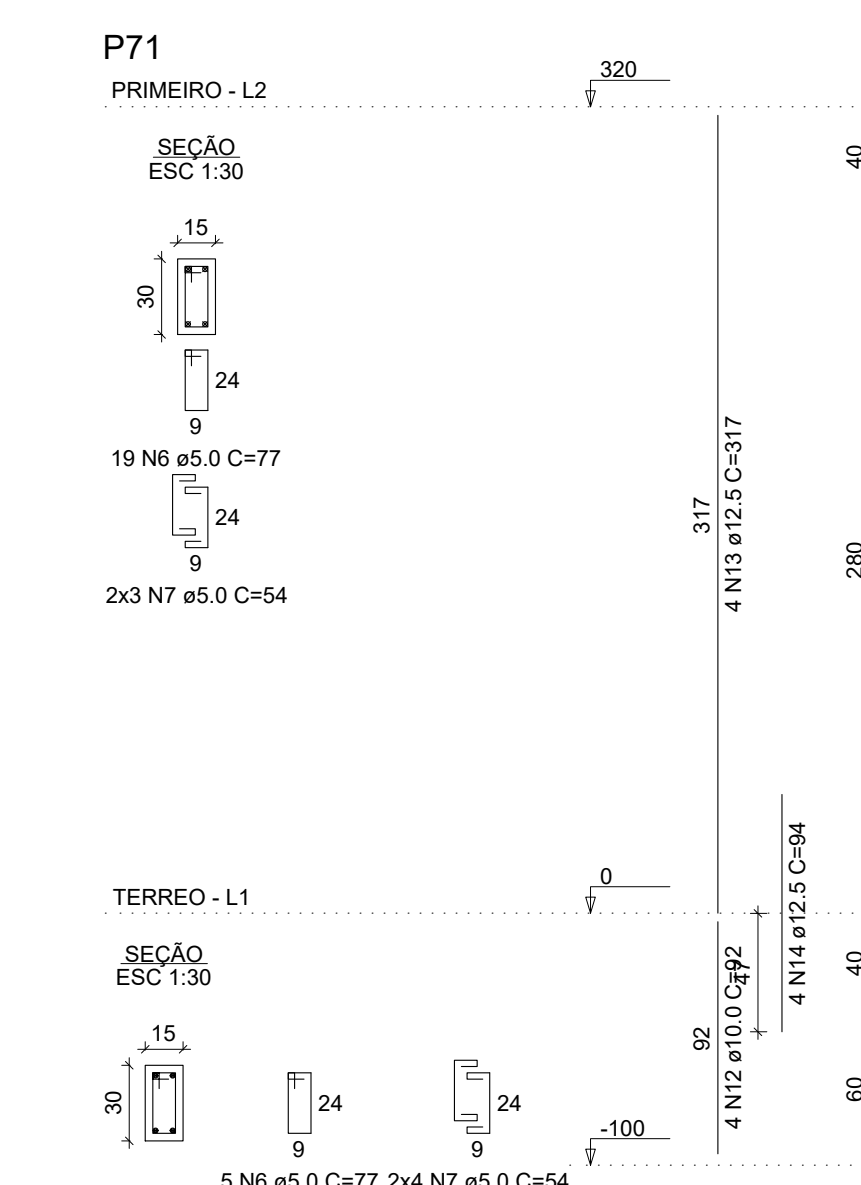
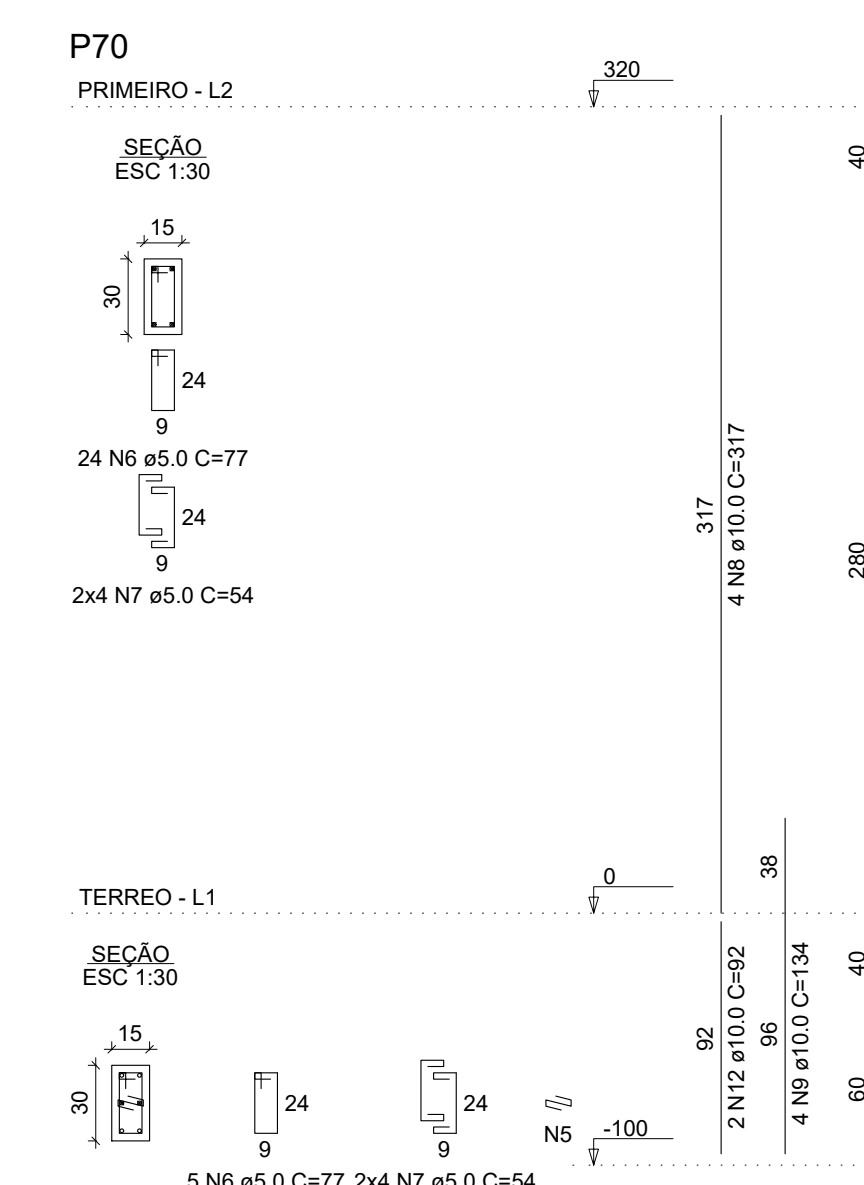
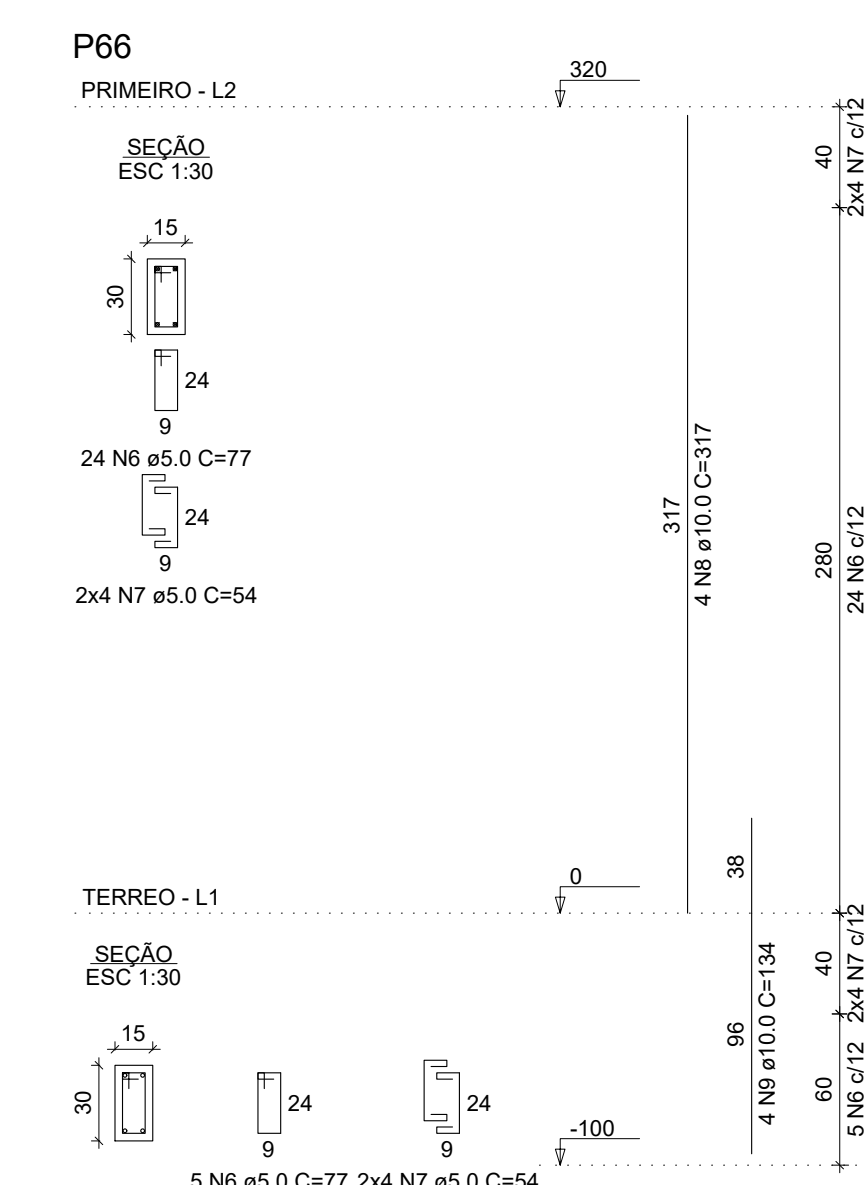
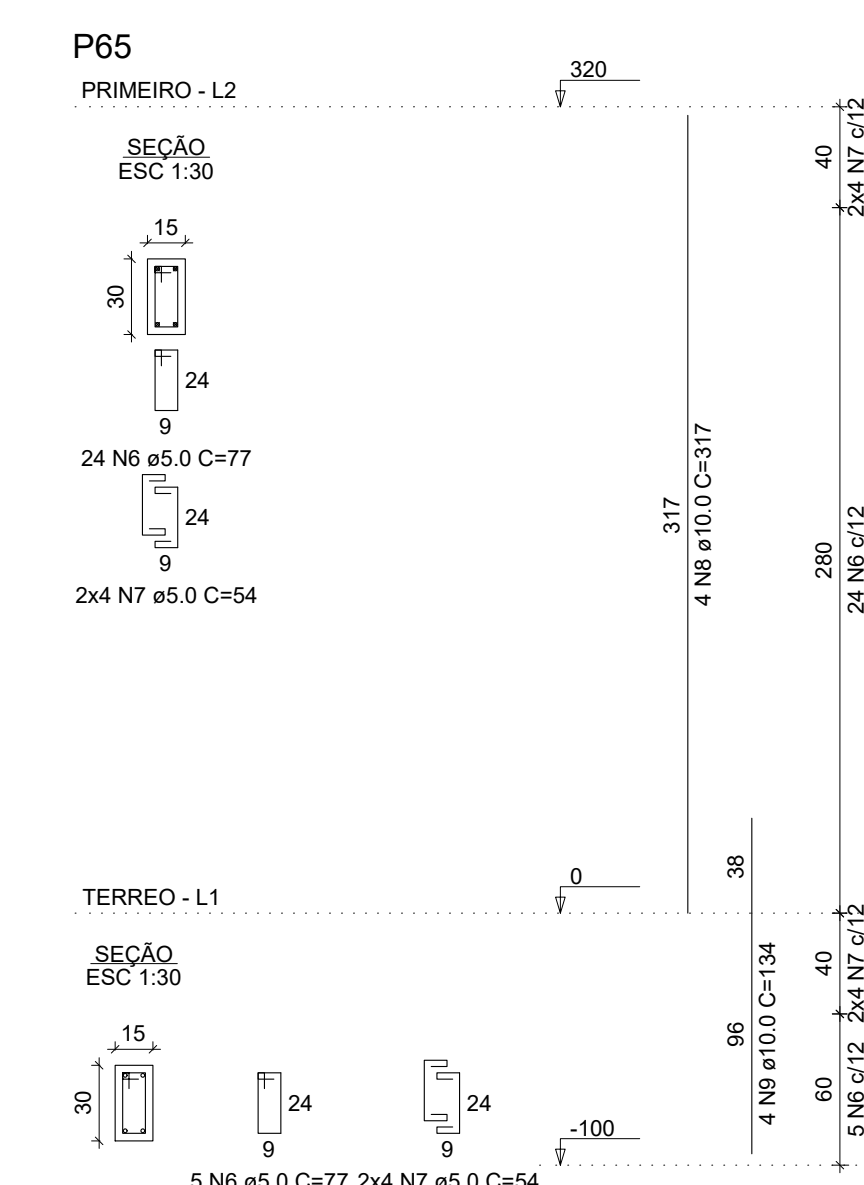
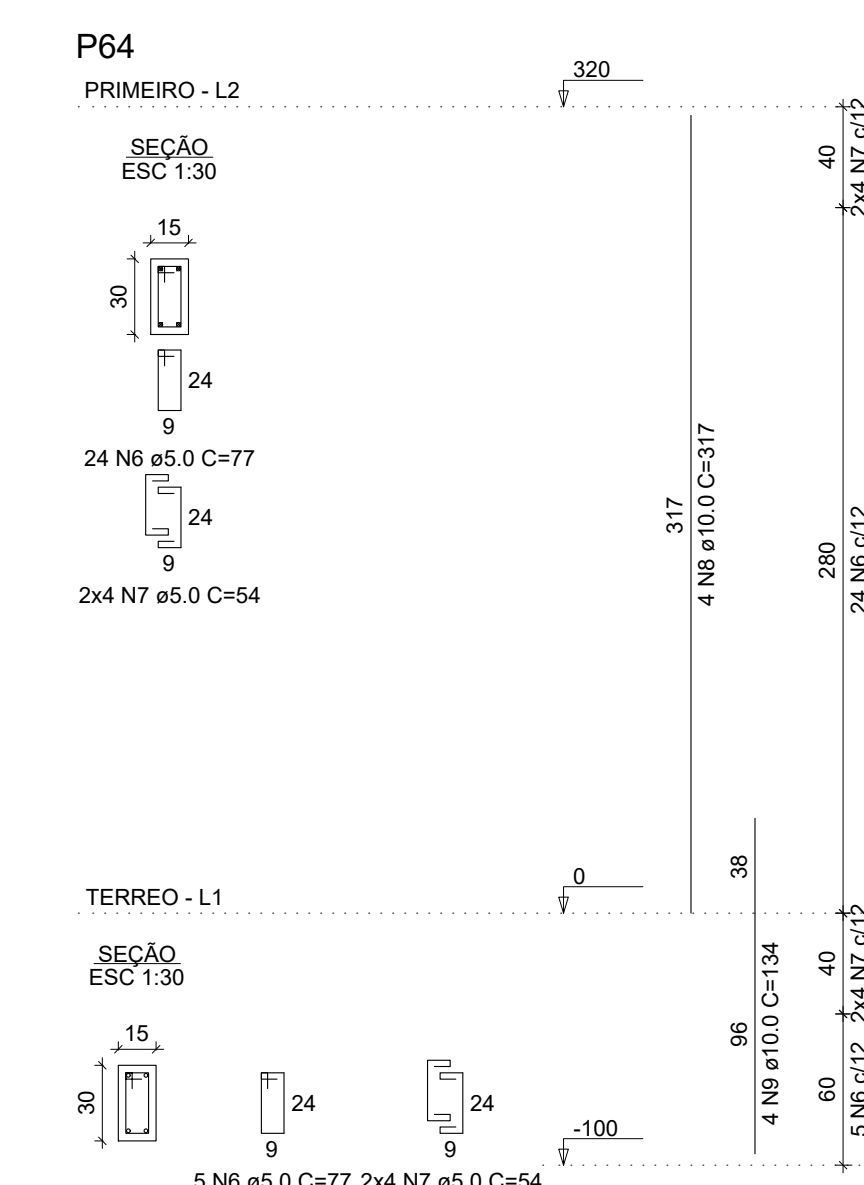
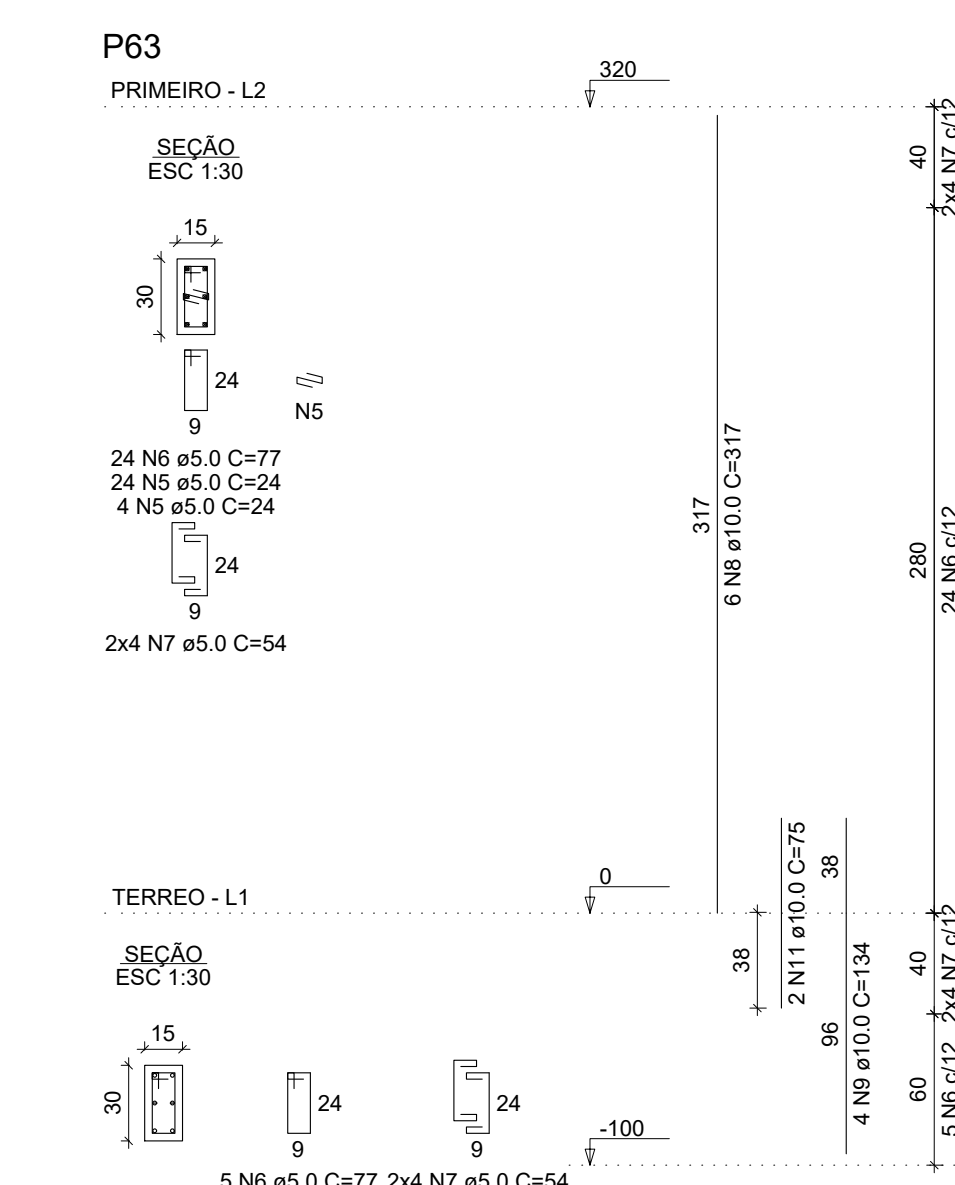
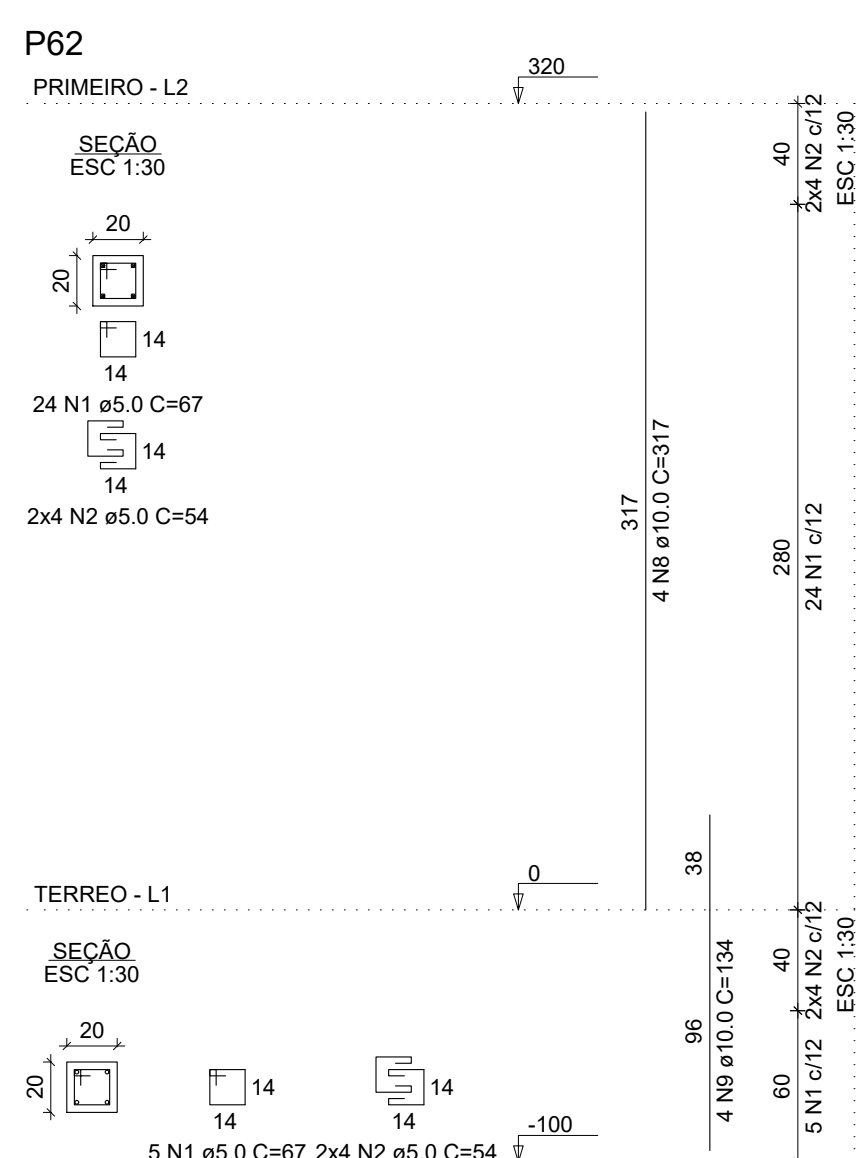
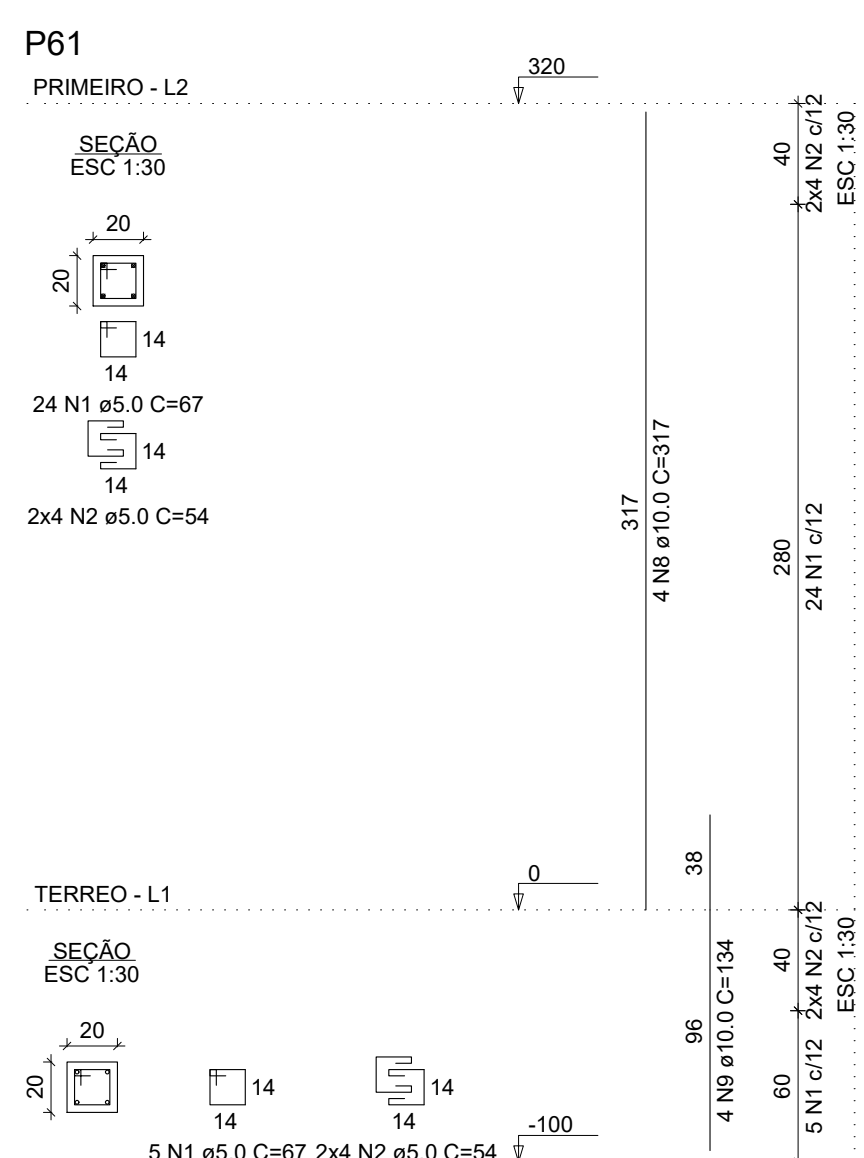
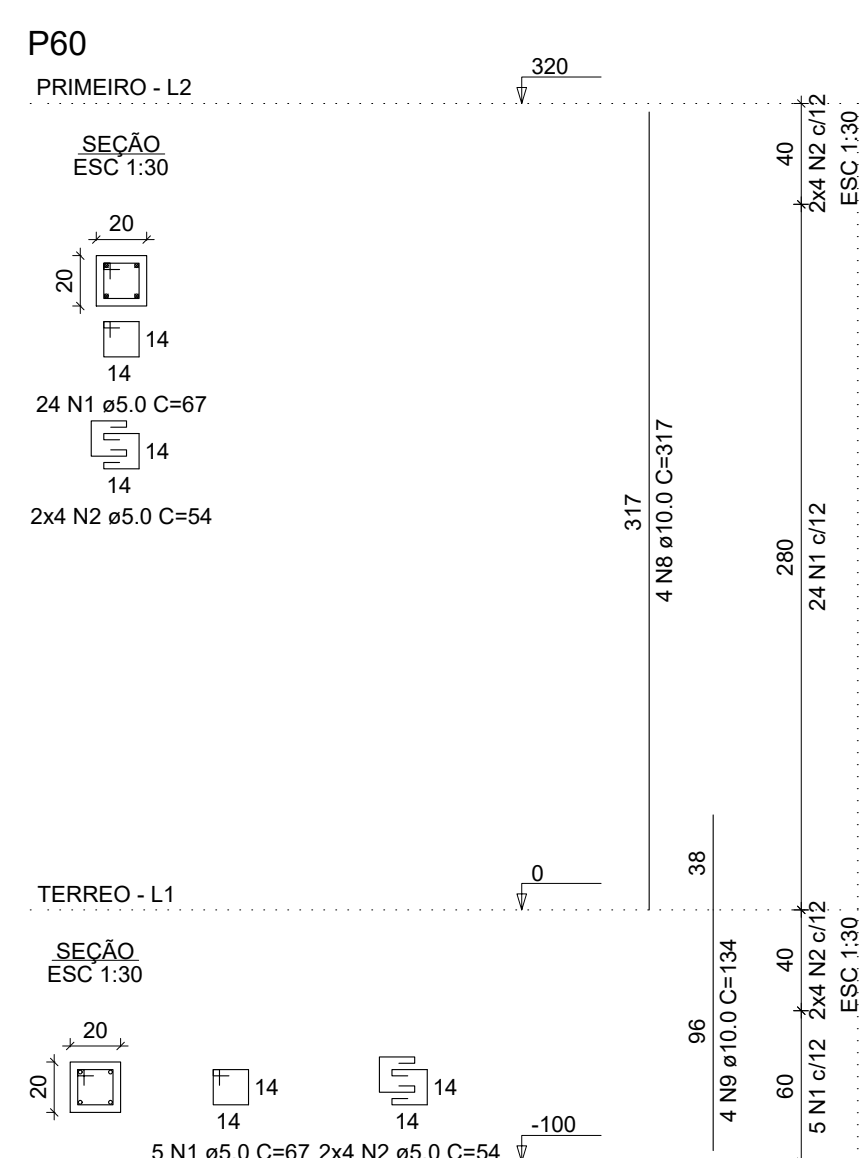
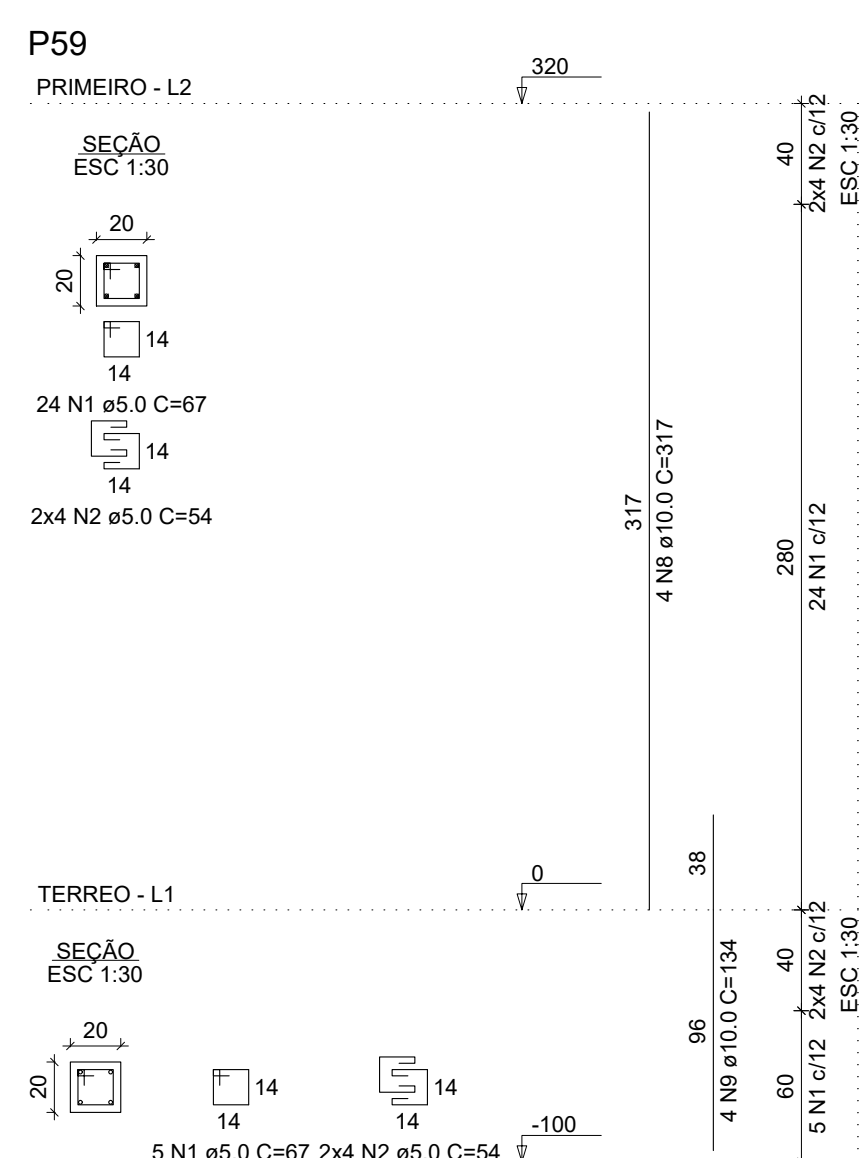
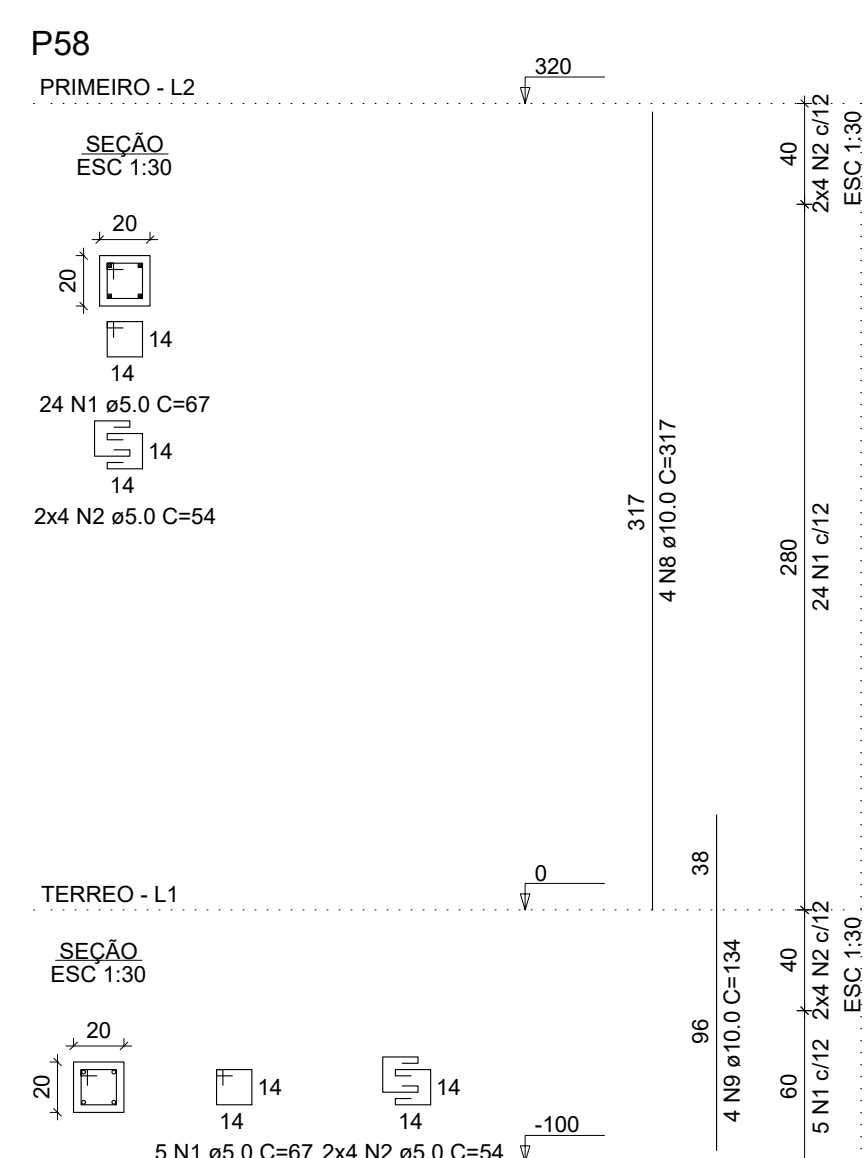
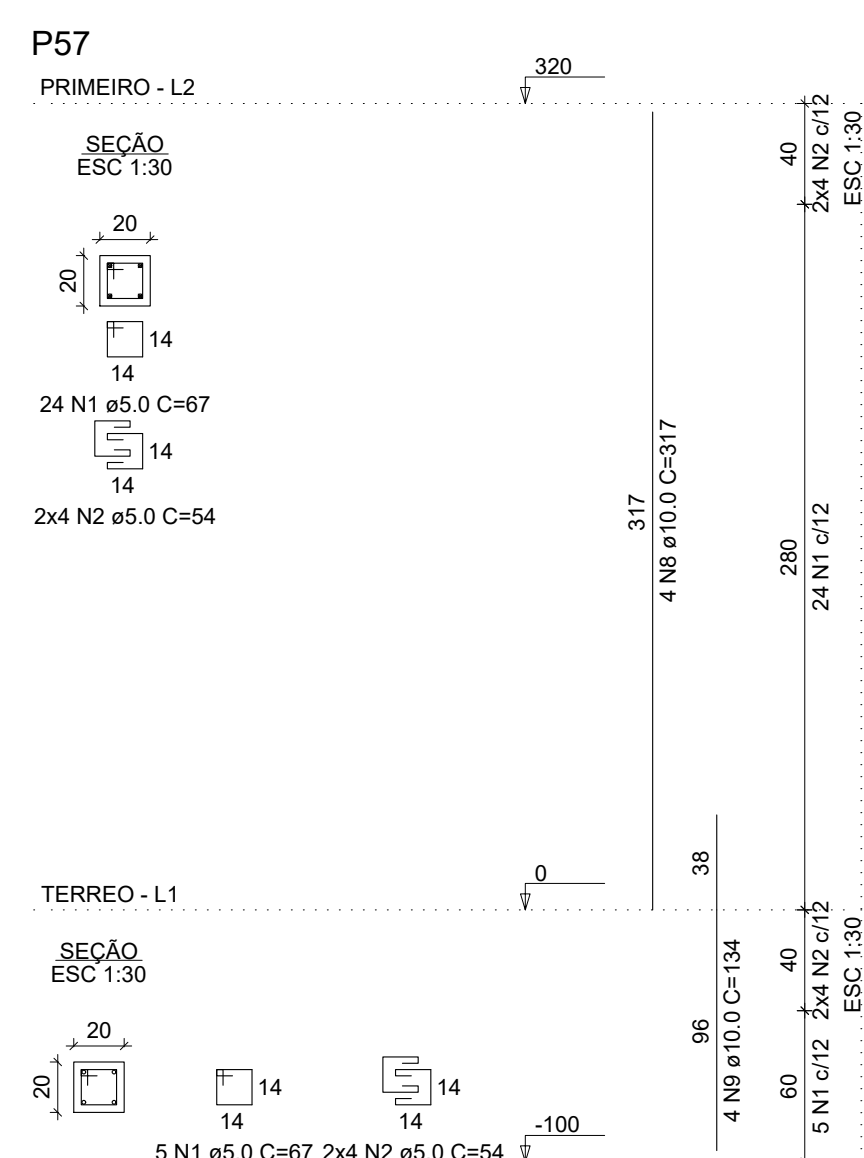
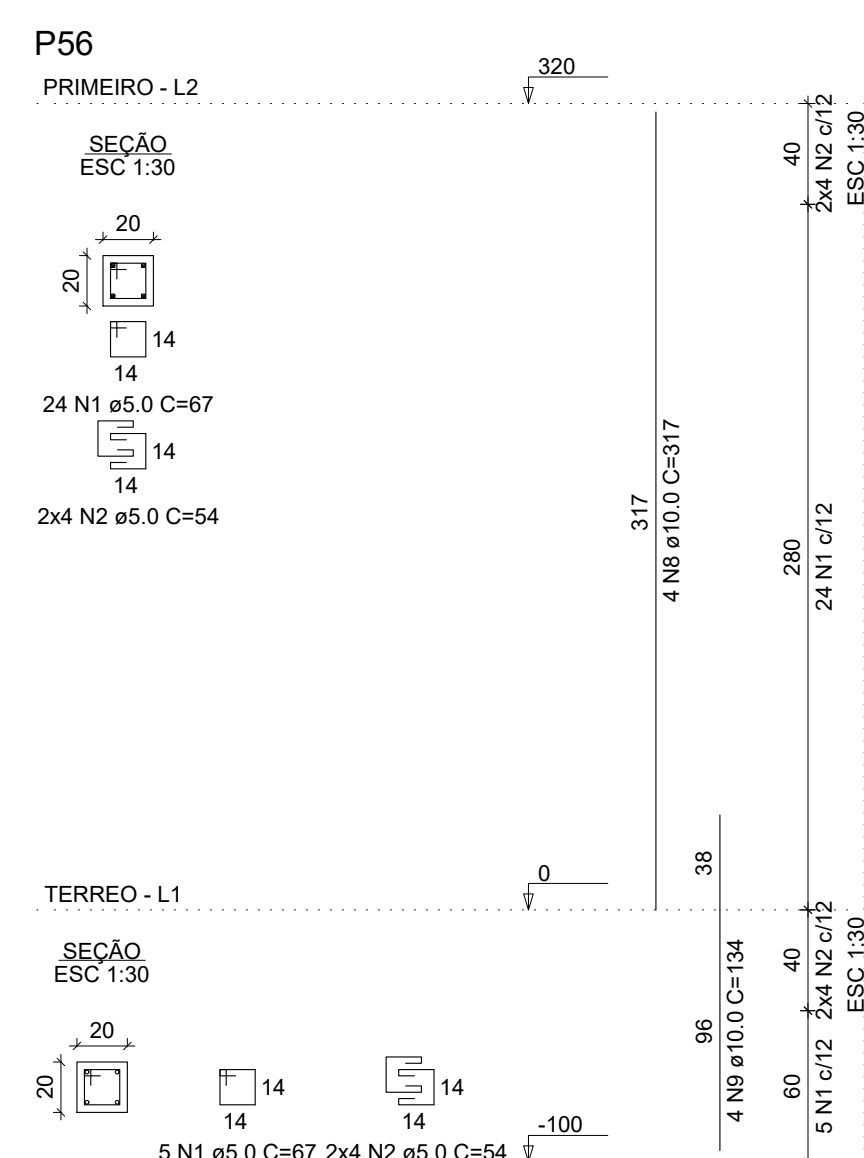
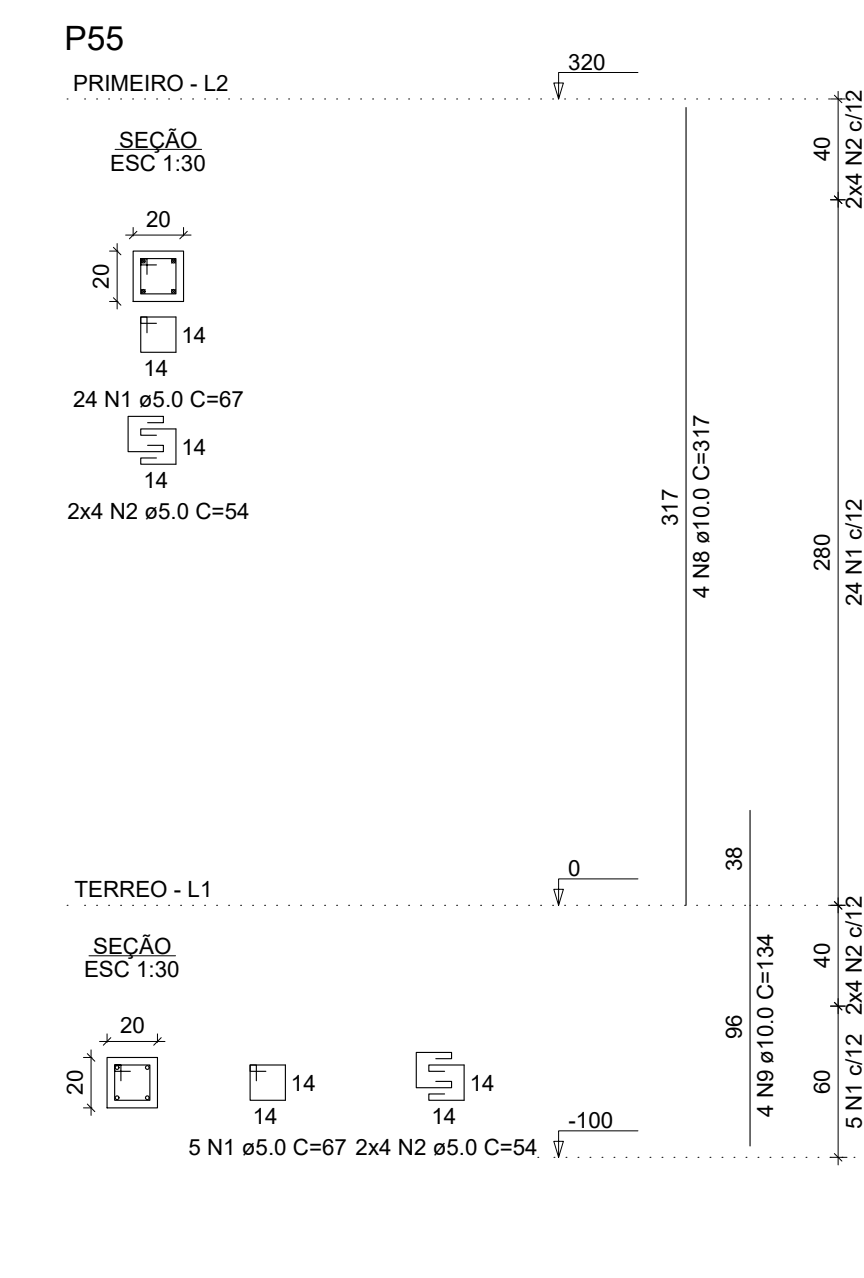
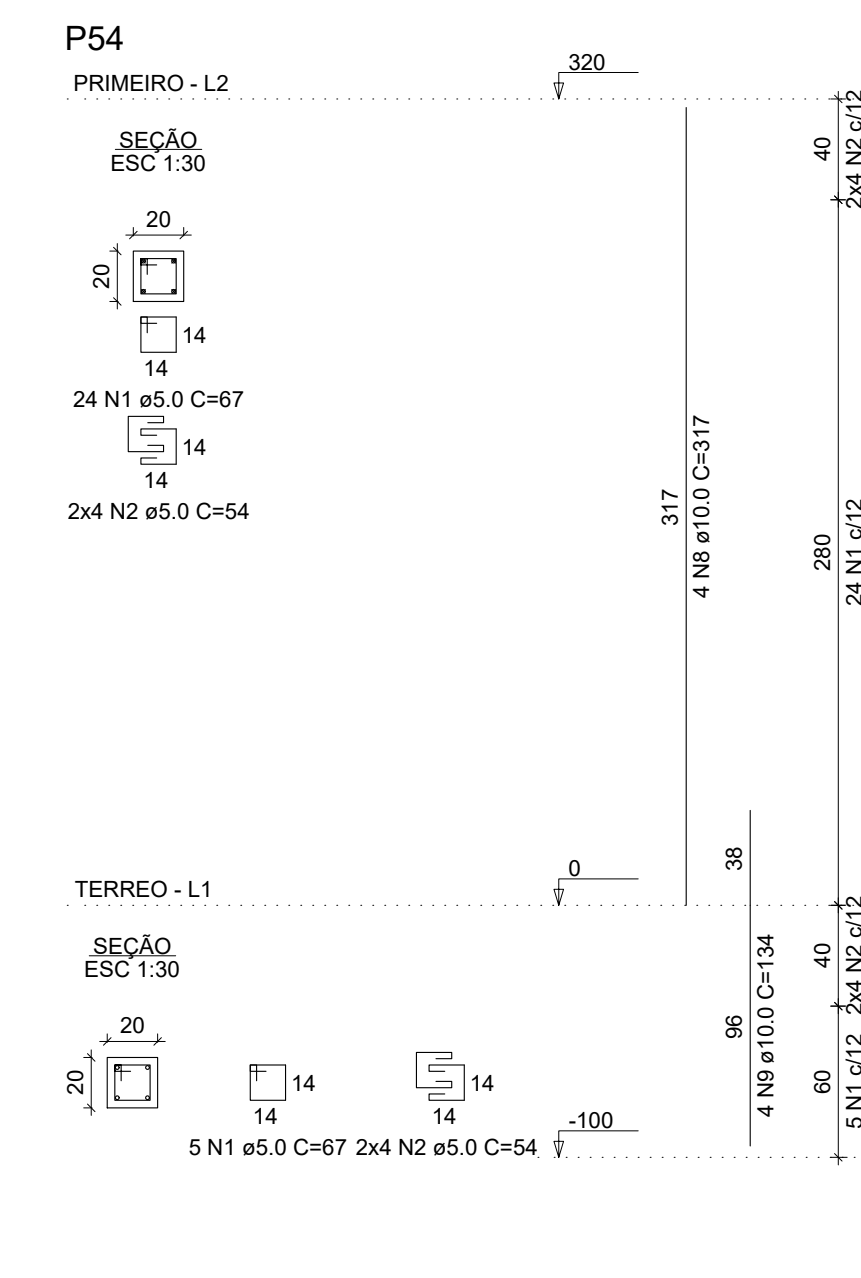
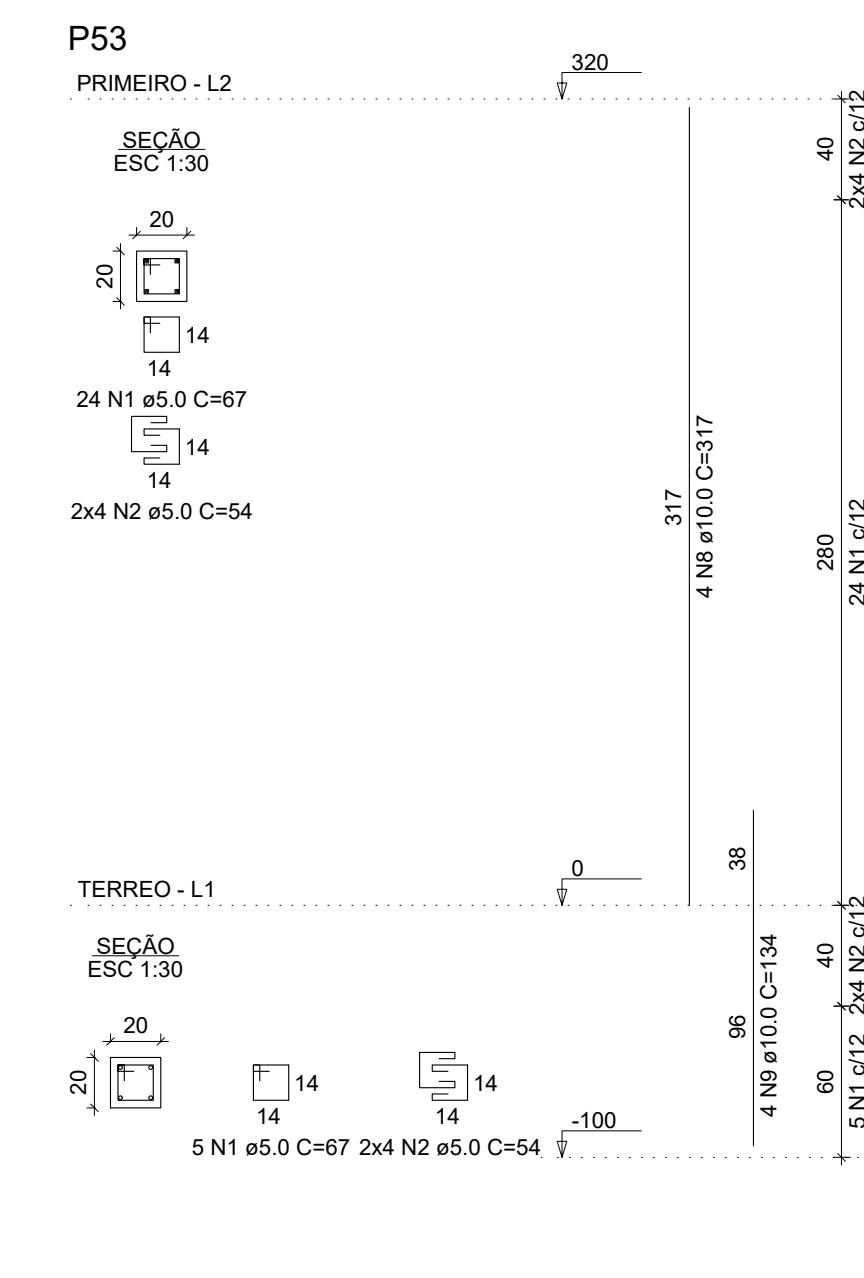
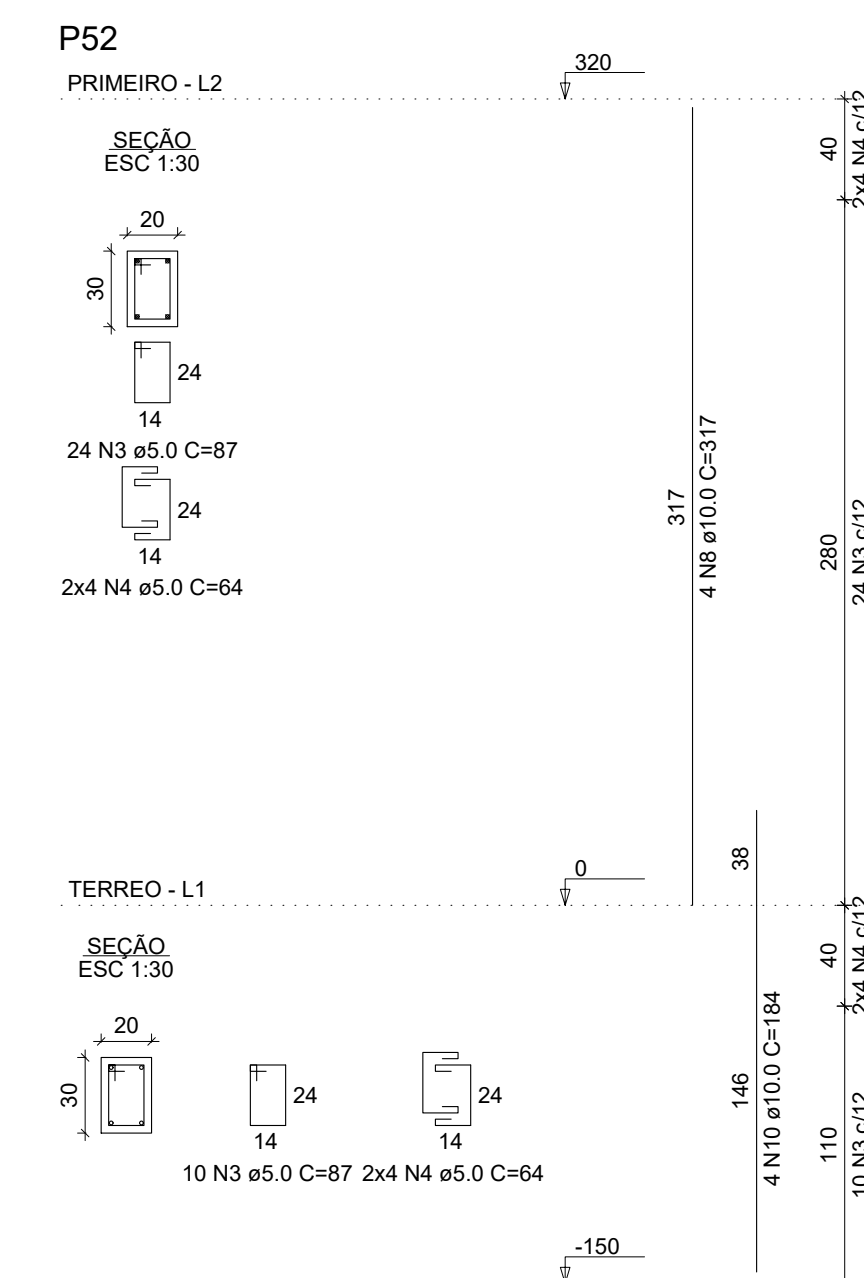
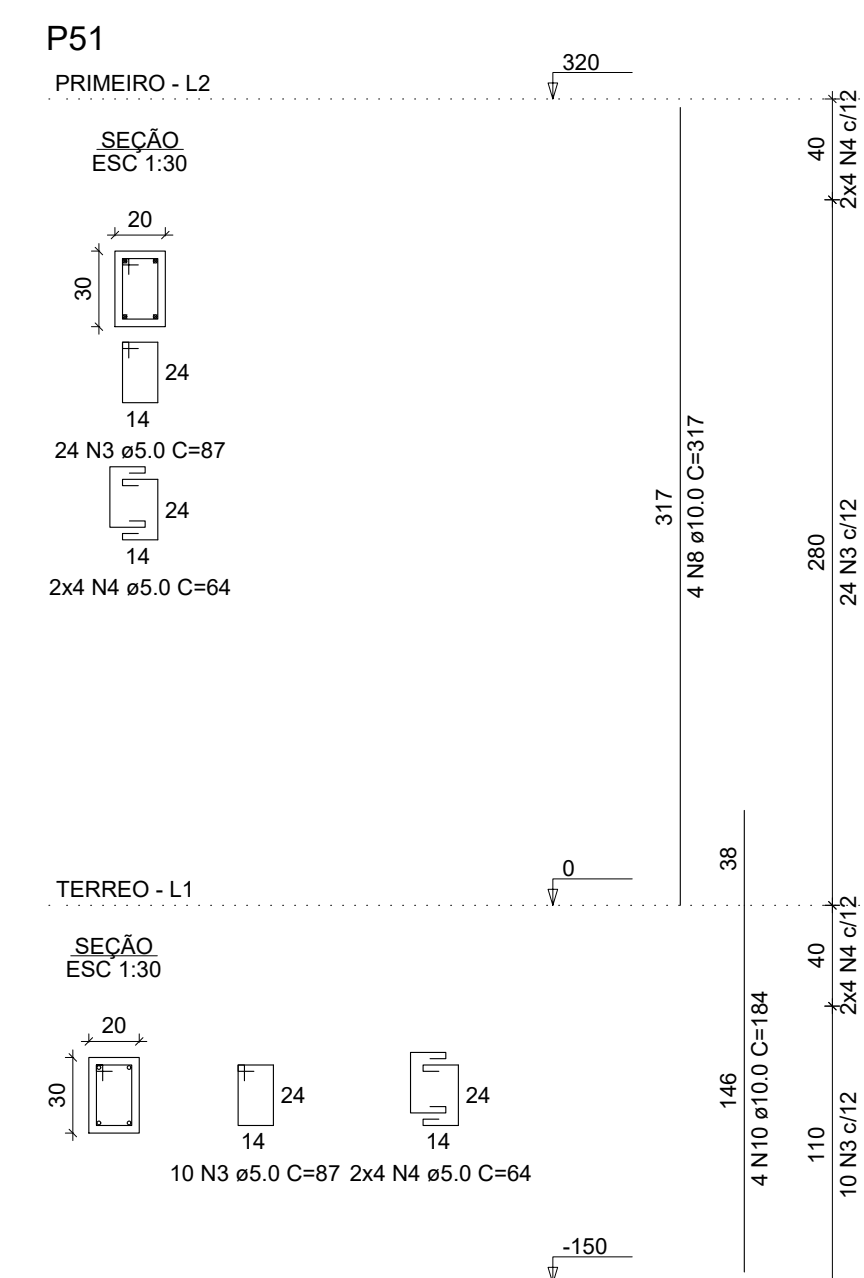
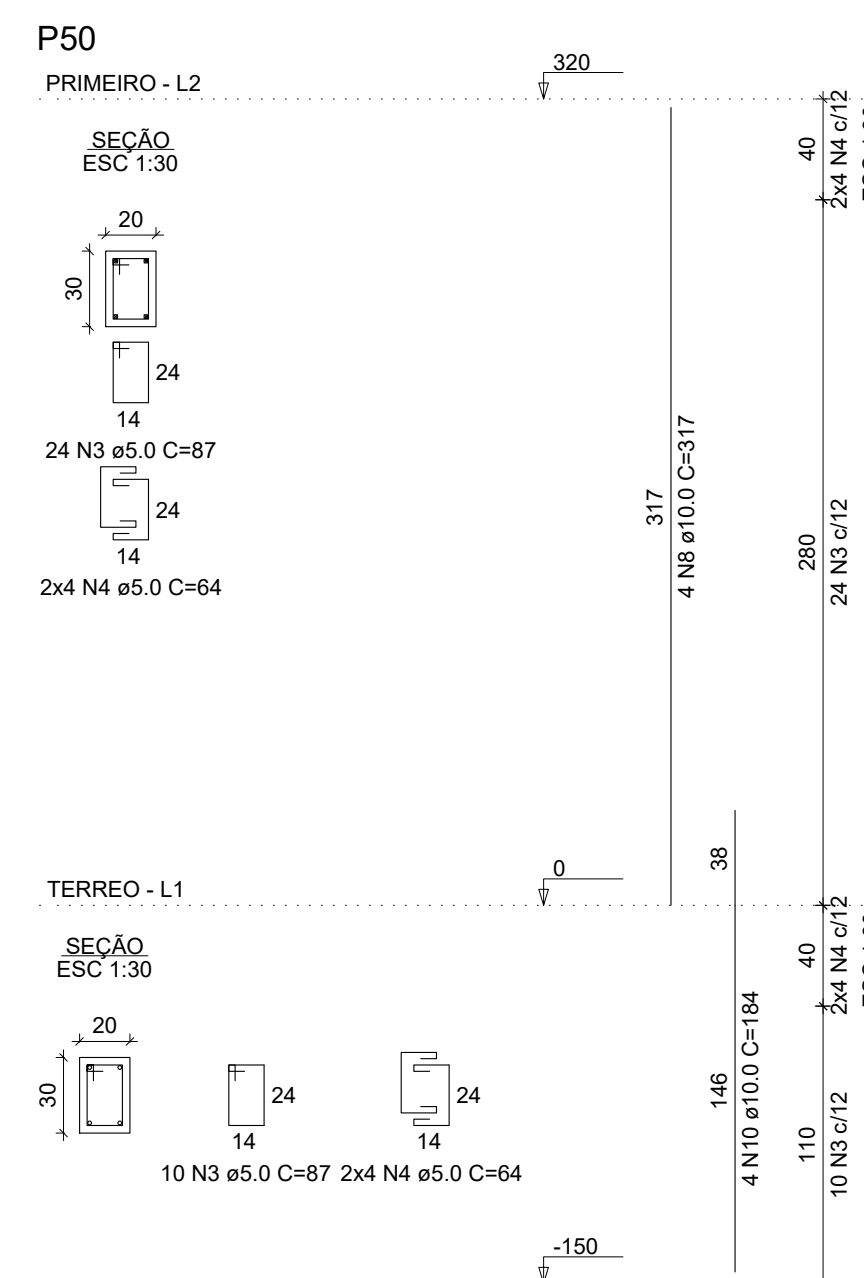
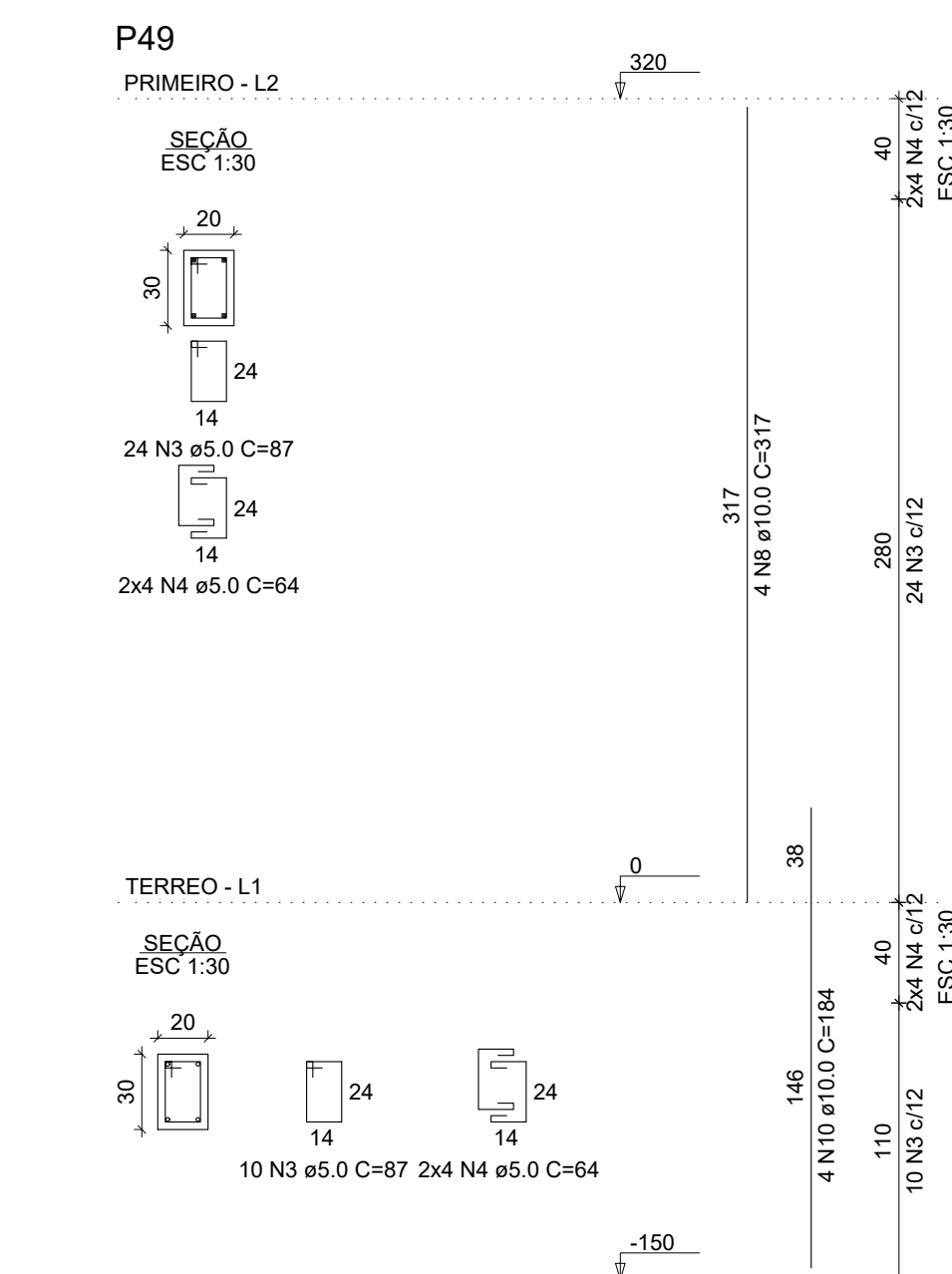
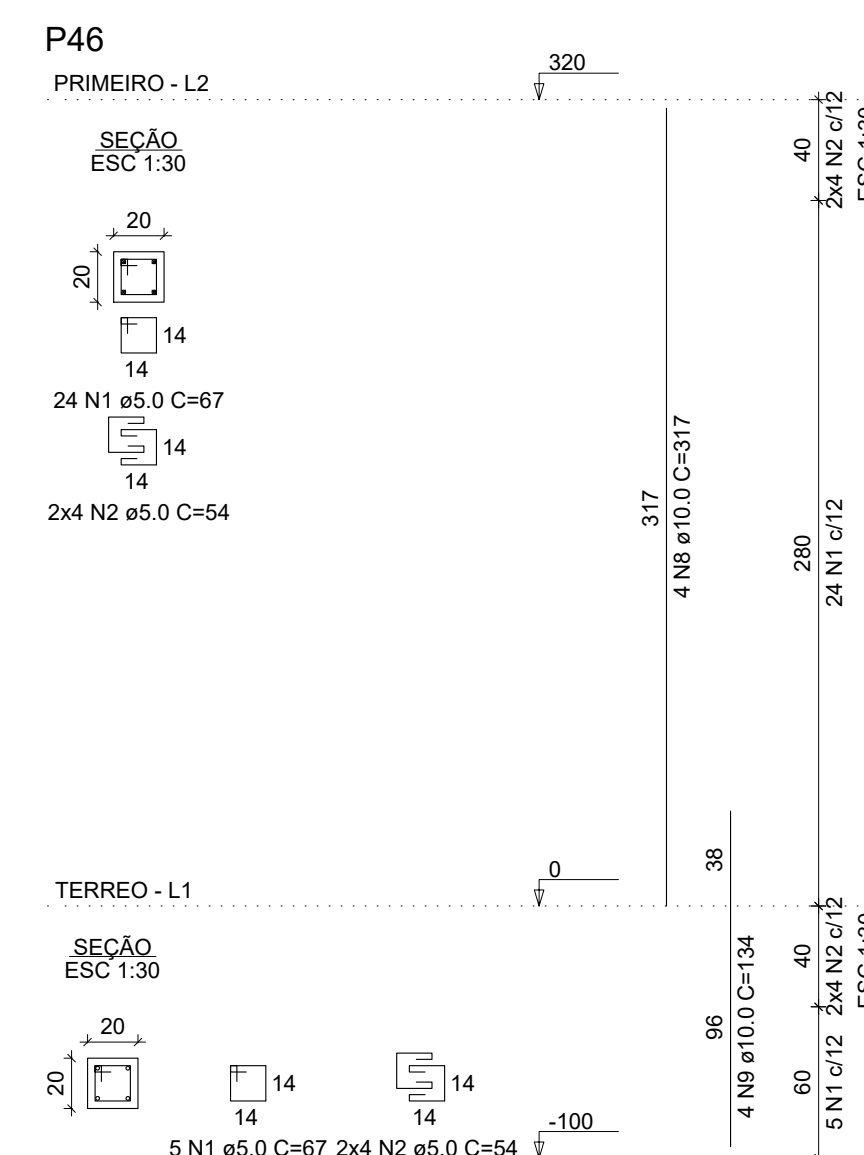
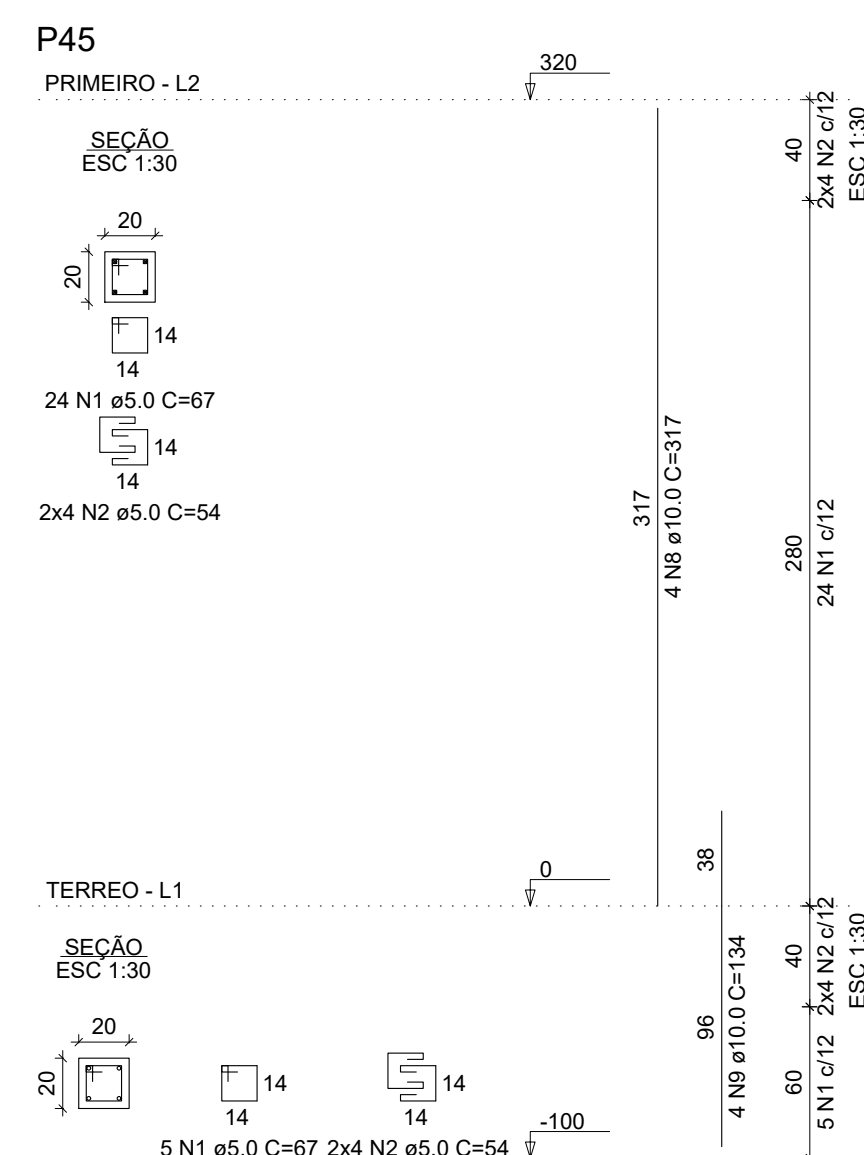
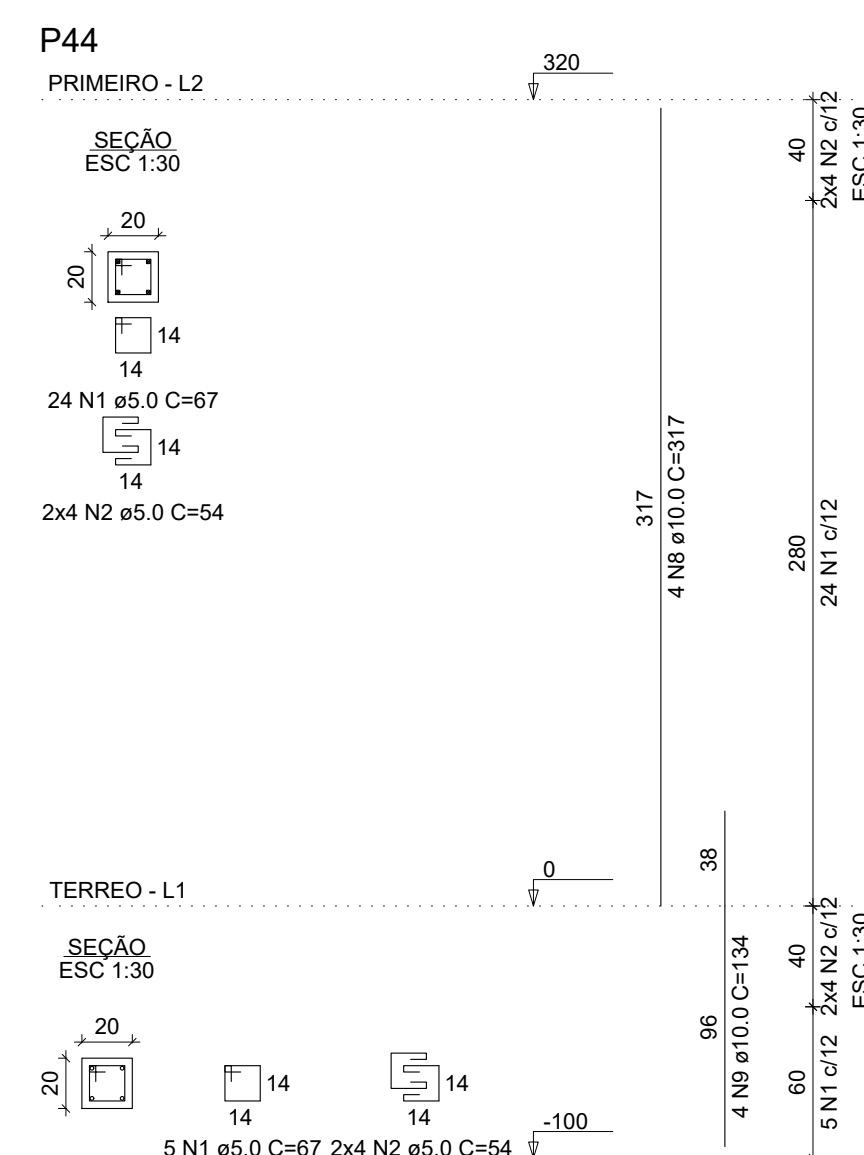
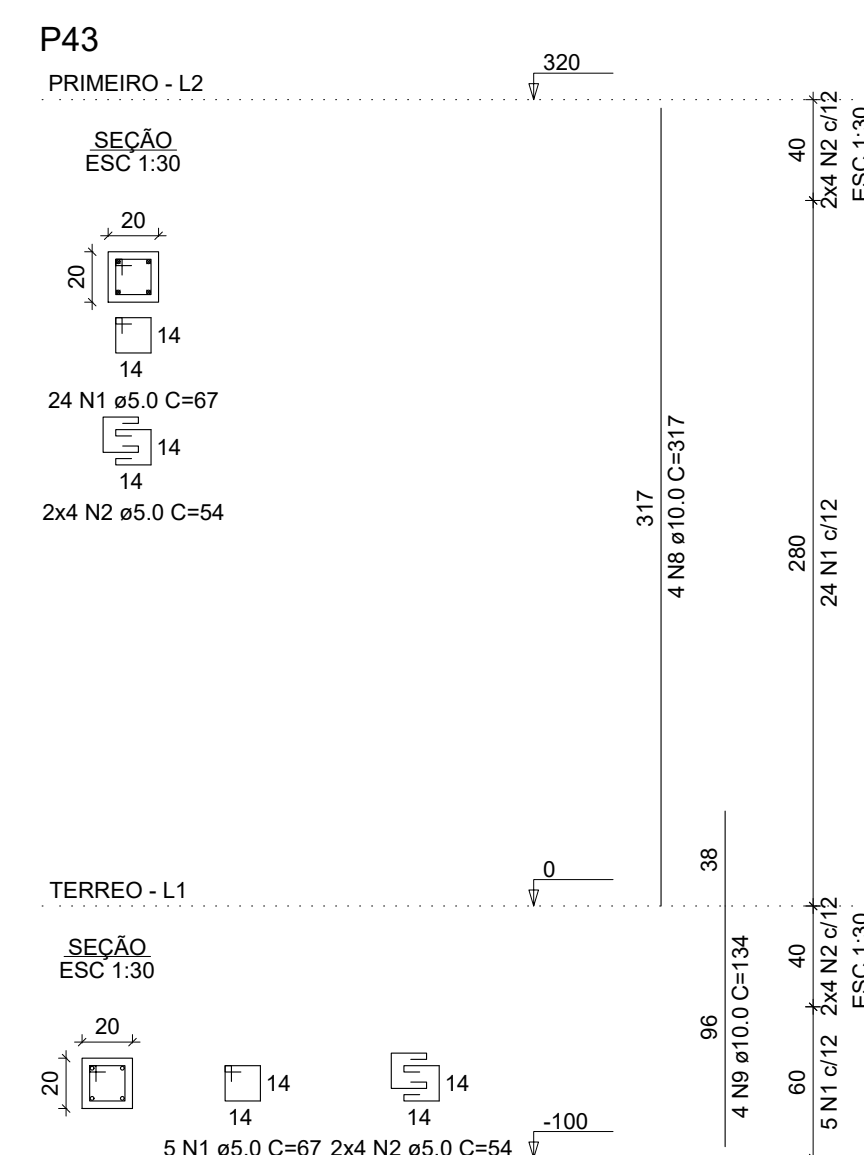
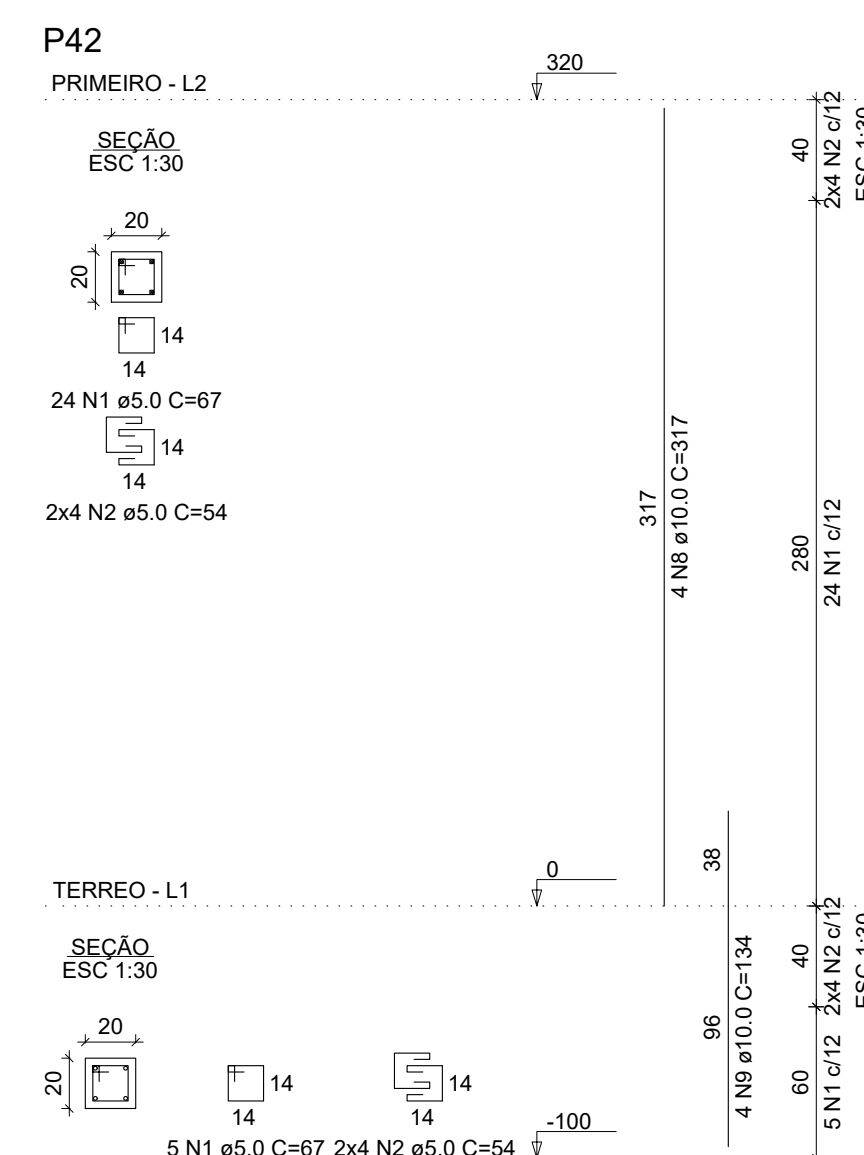
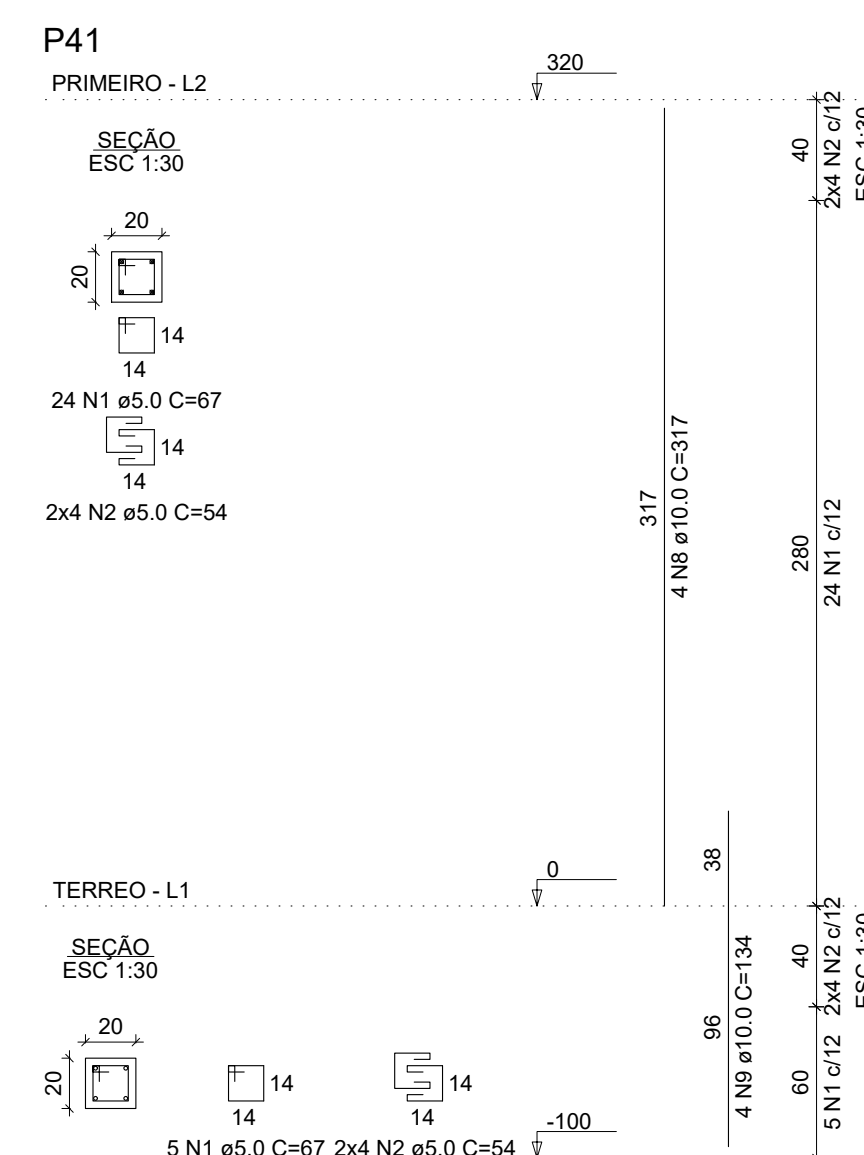
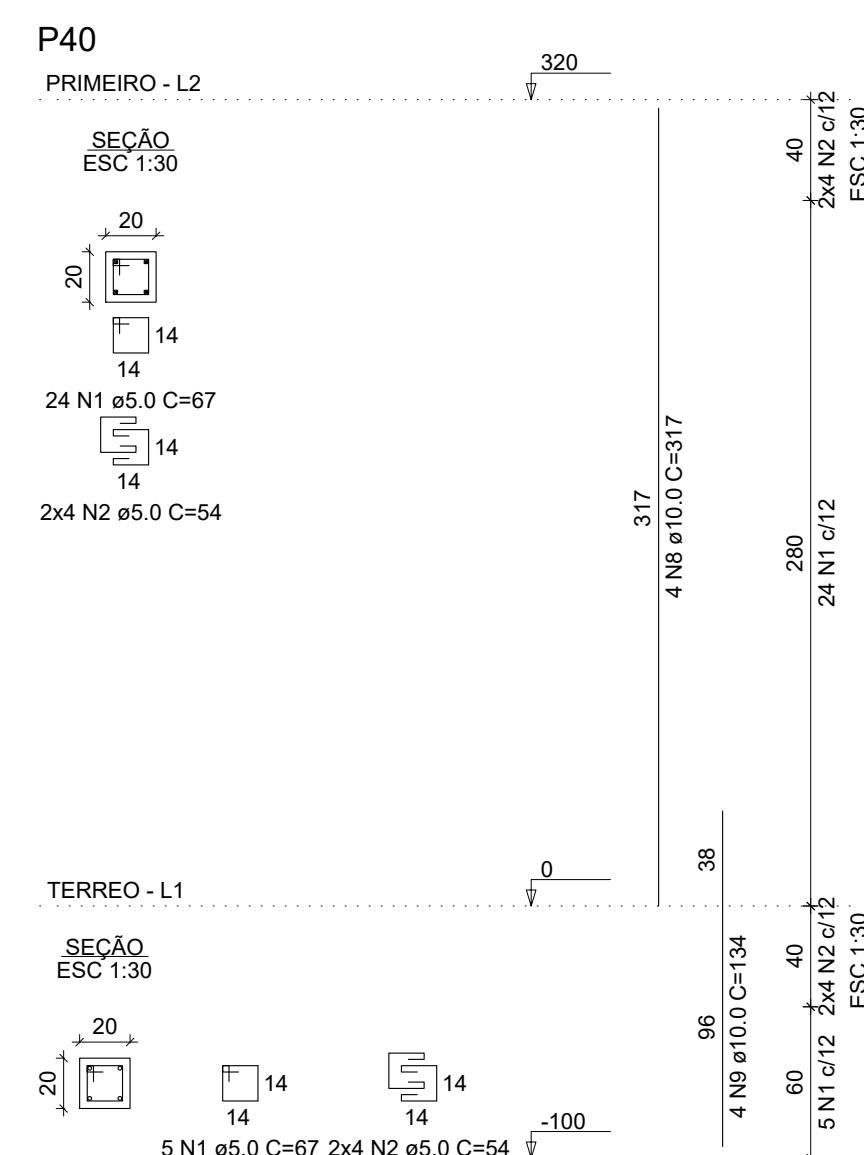
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AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	72.5	7	12 m	17.7
	10.0	635.5	53	12 m	391.8
CA60	5.0	980.8	-	rolo (170 kg)	151.2
	6.0	115.1	-	rolo (170 kg)	25.5
PESO TOTAL (kg)					
CA50	409.5				
CA60	176.7				

Volume de concreto (C-25) = 5.65 m³
Área de forma = 102.27 m²



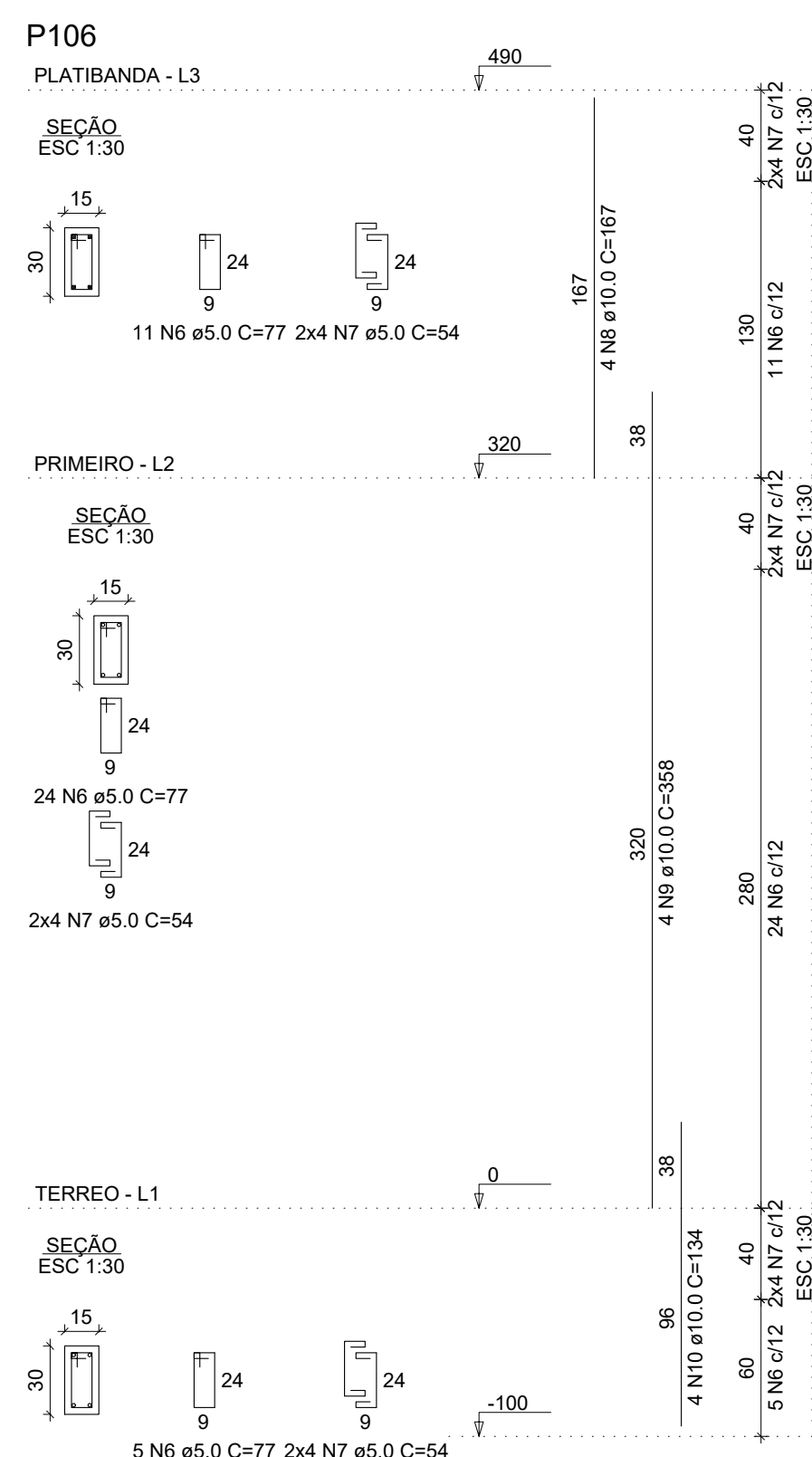
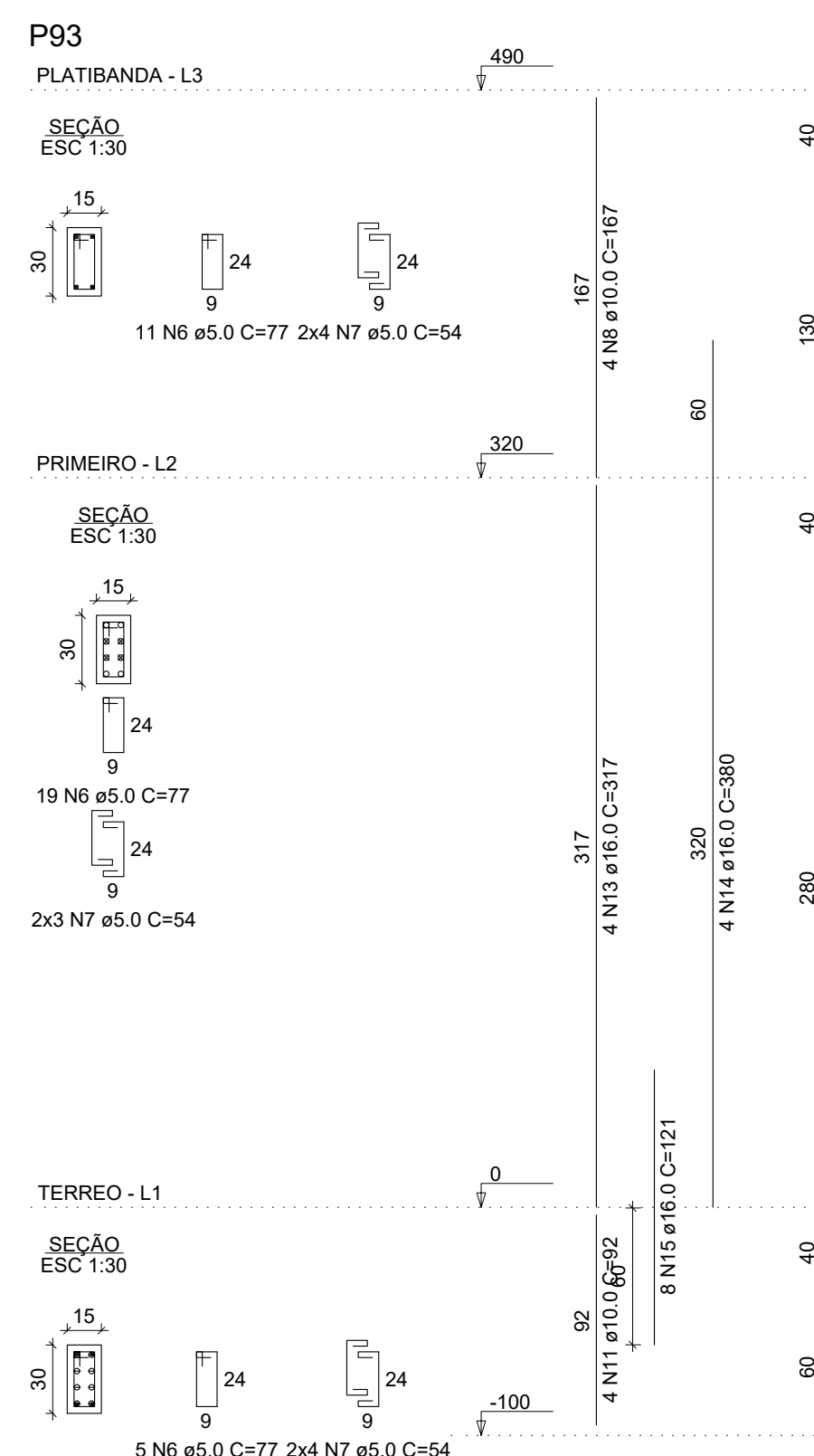
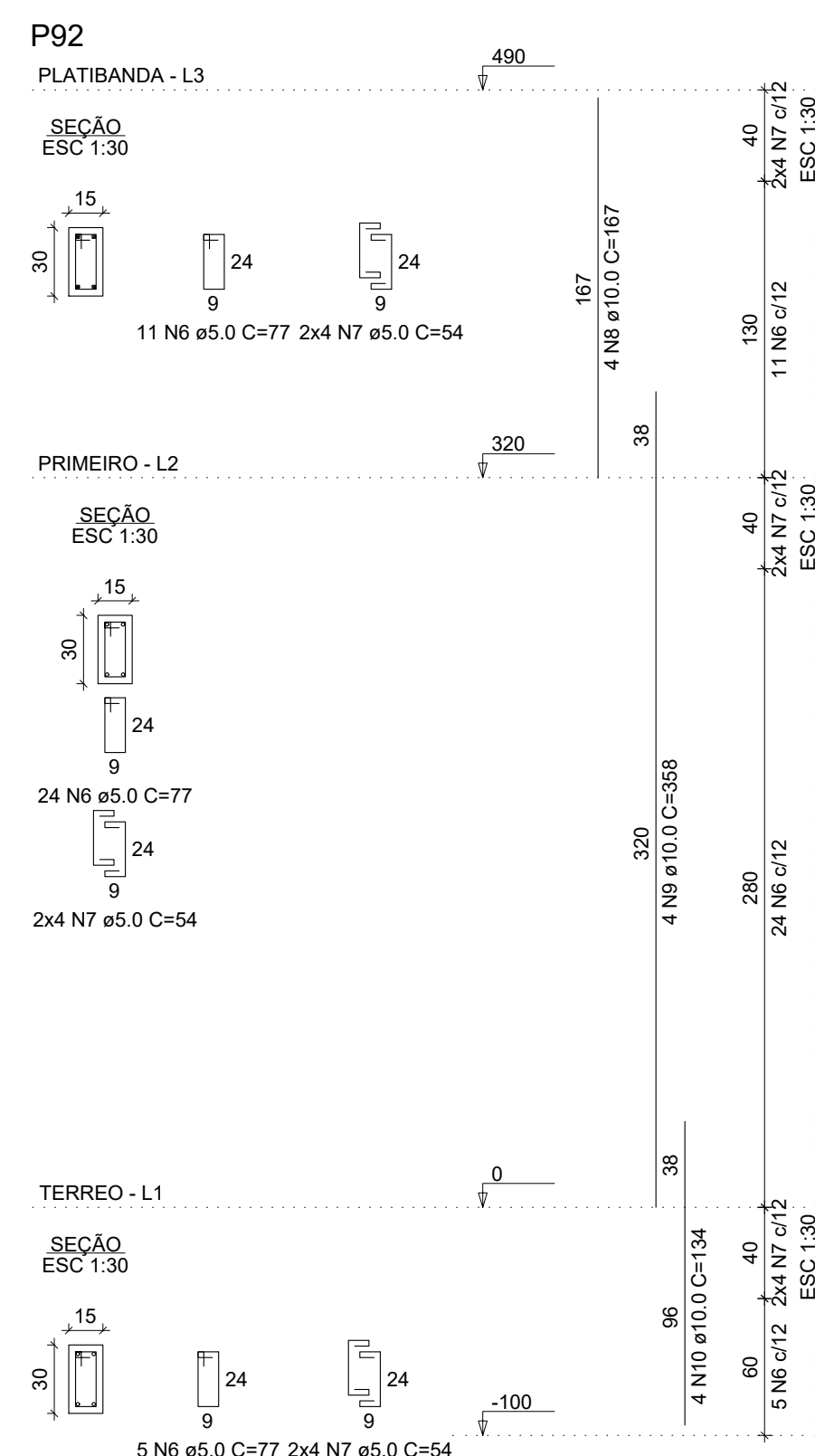
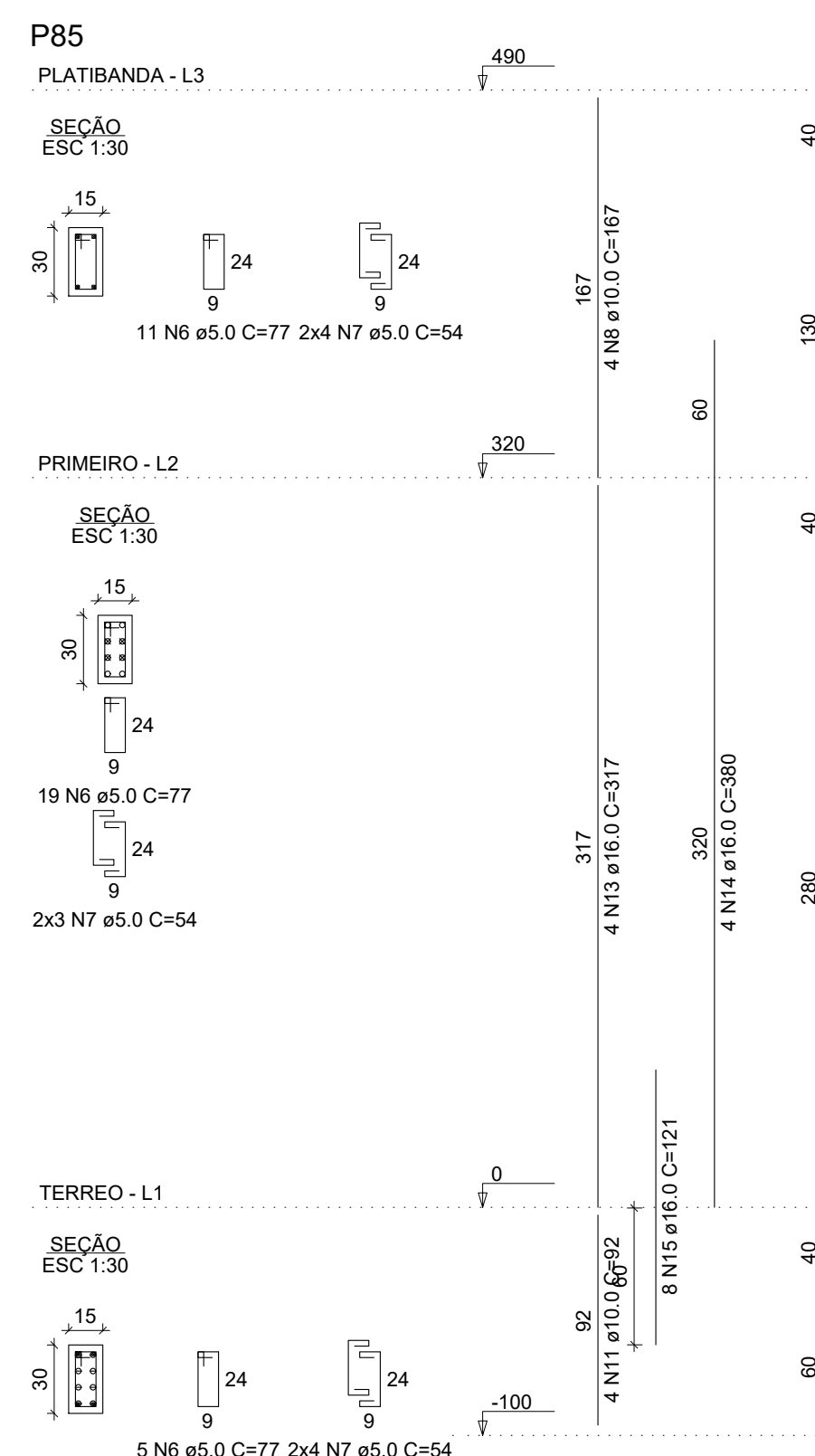
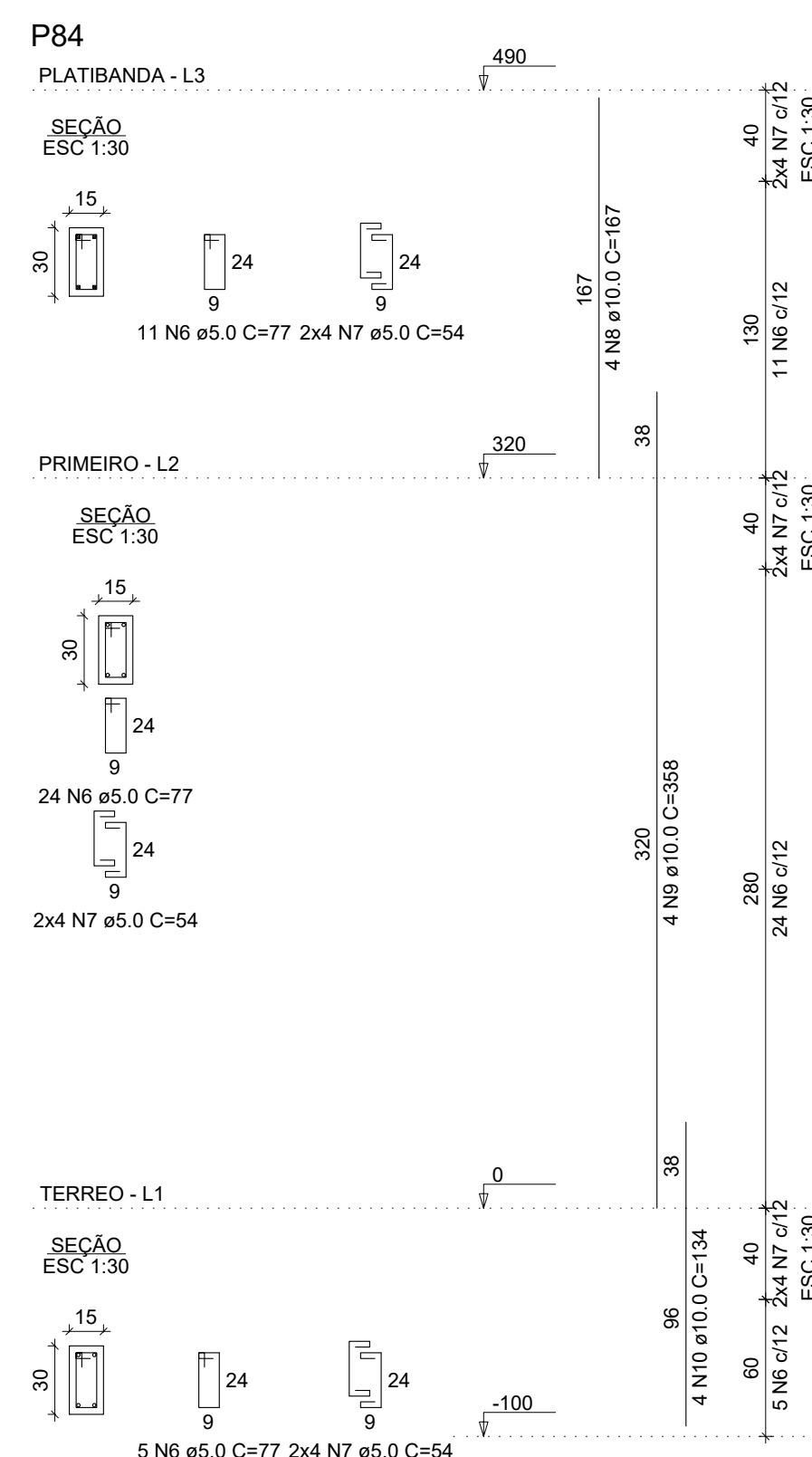
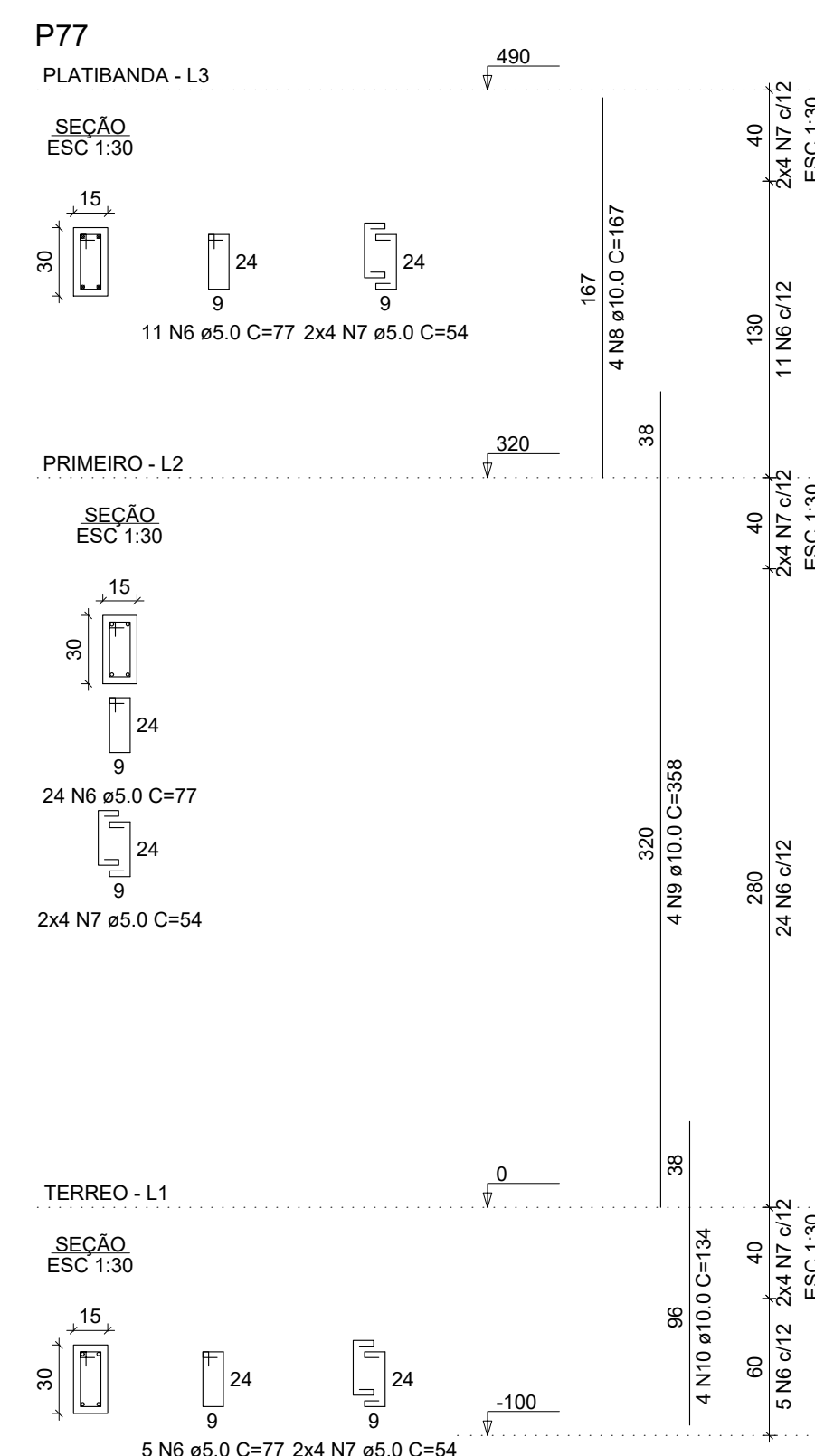
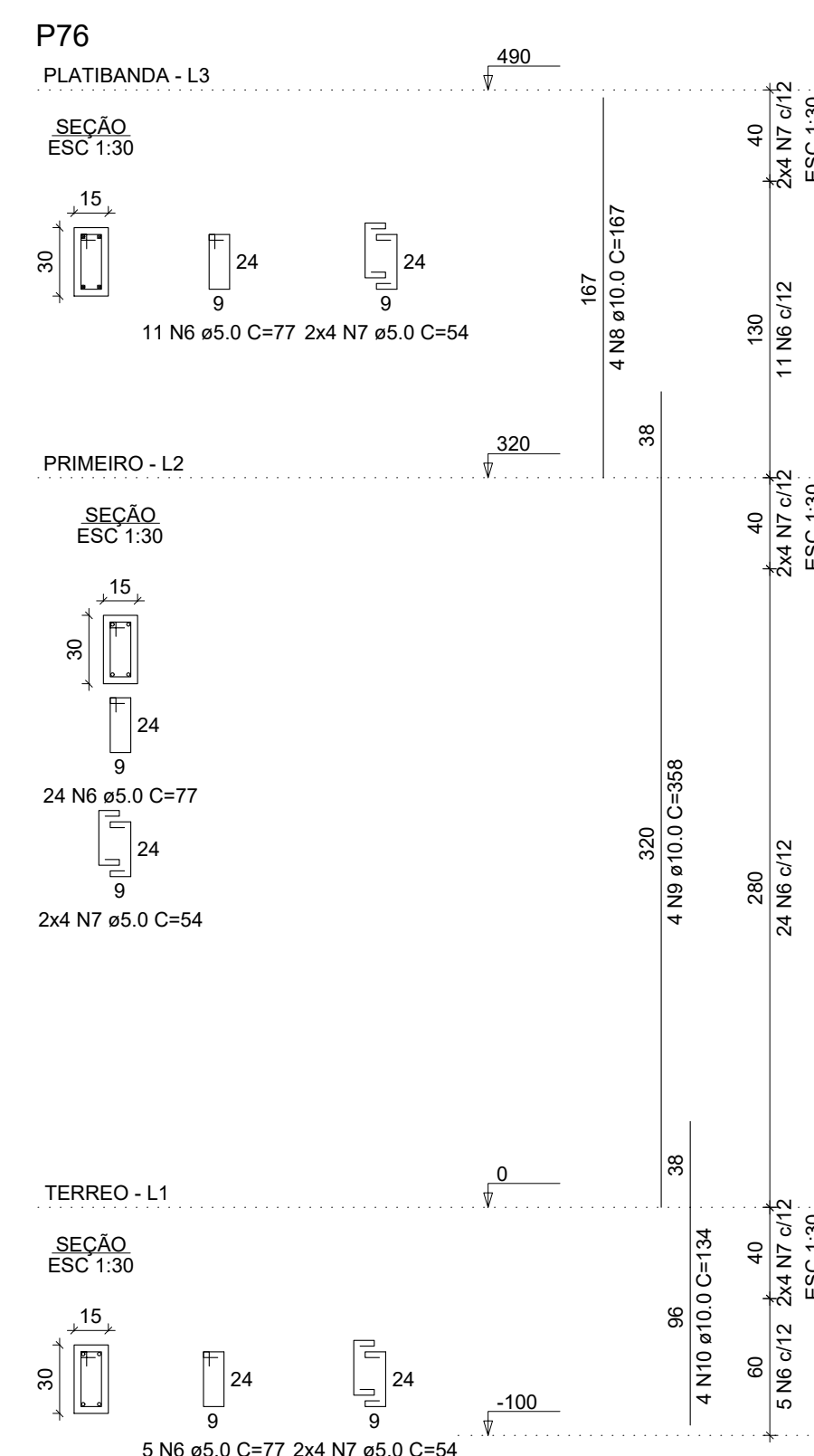
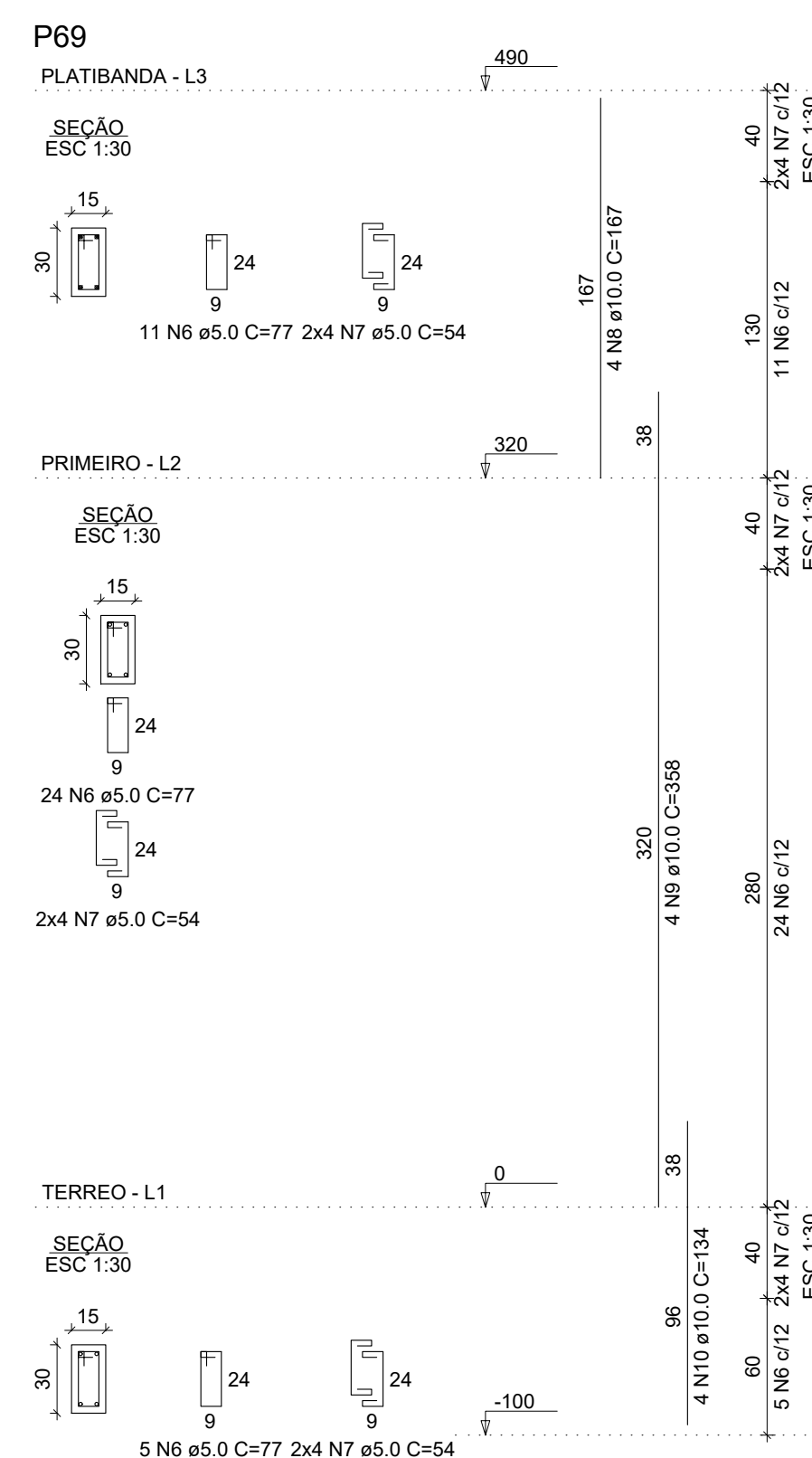
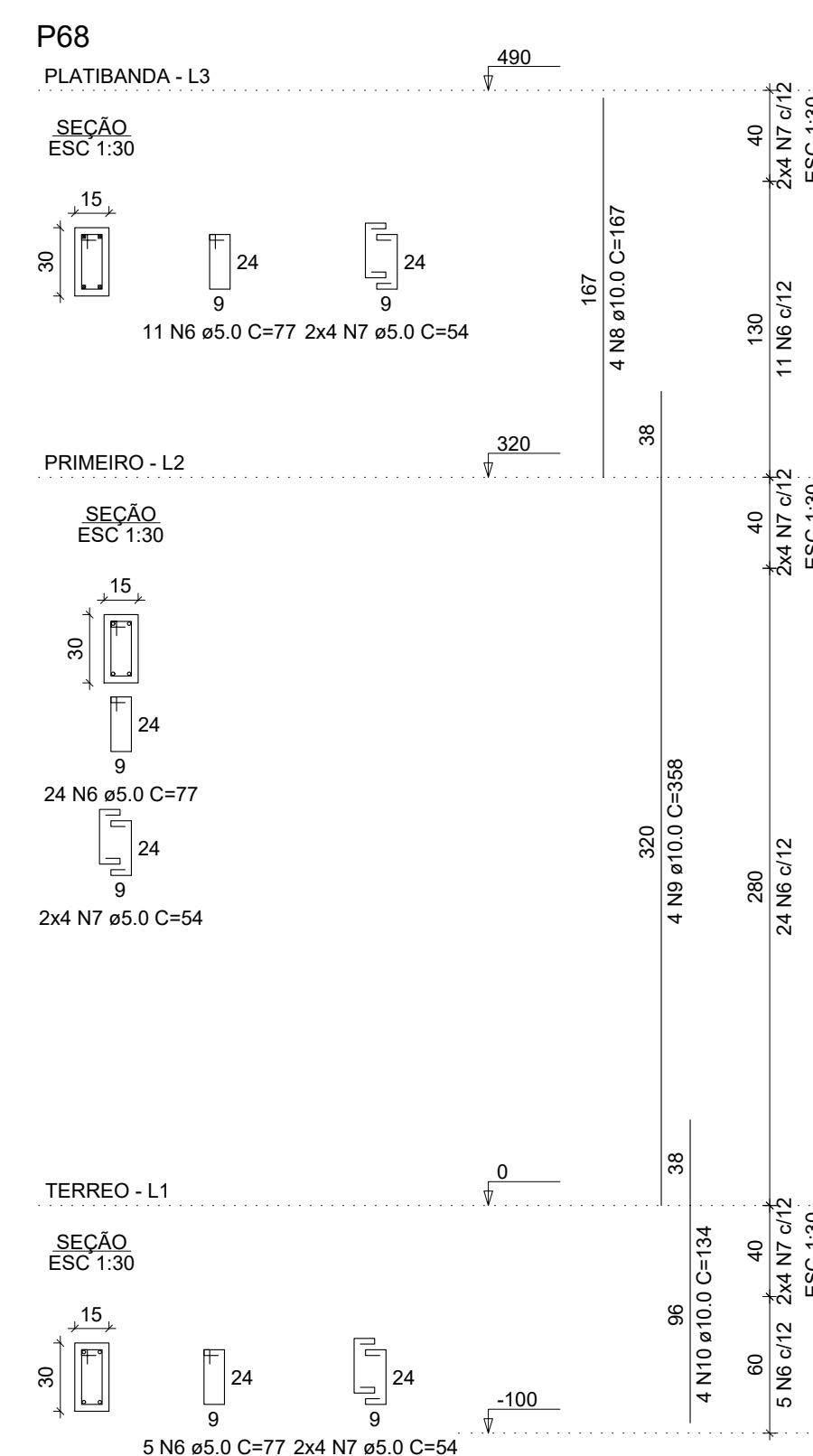
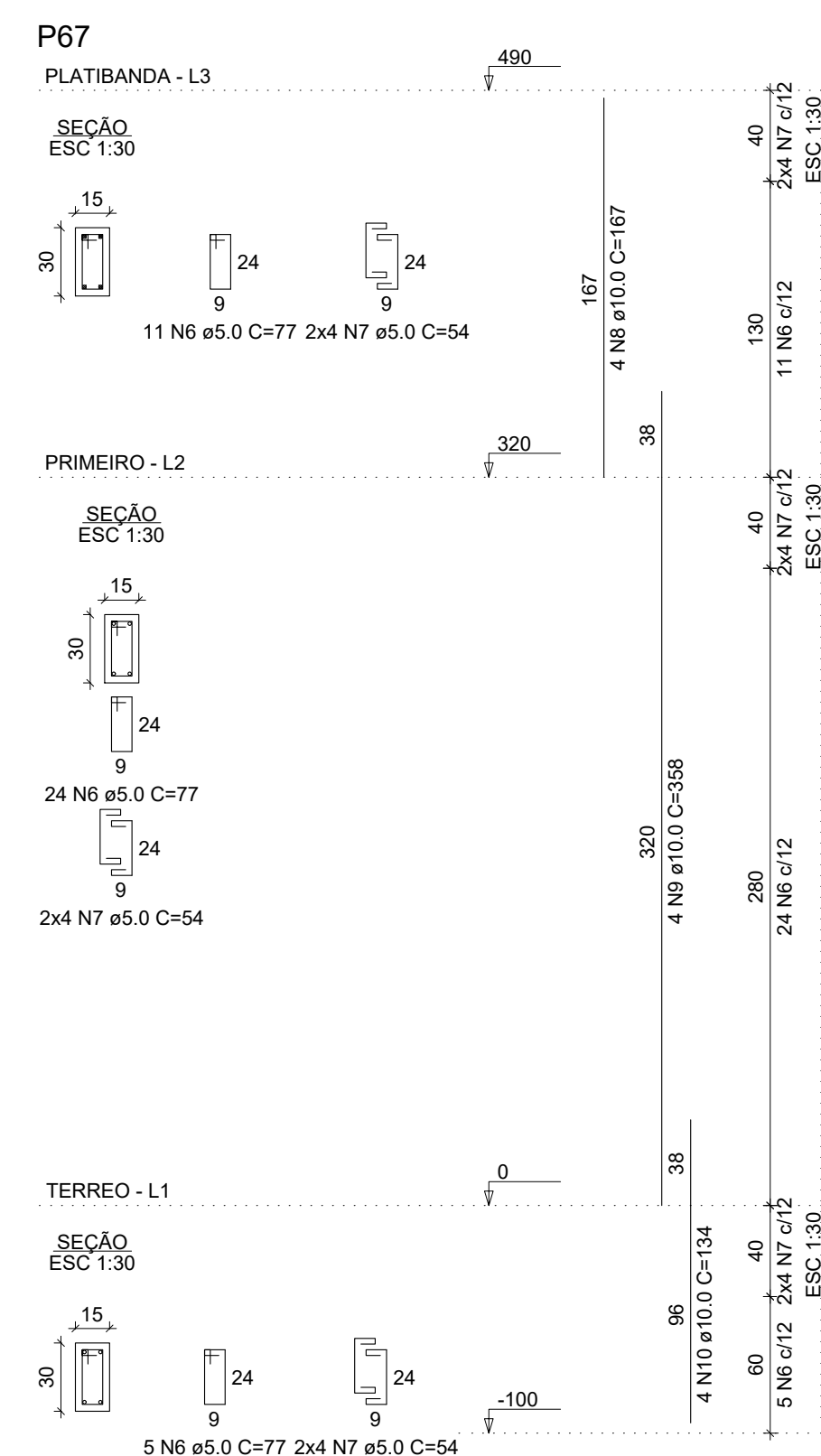
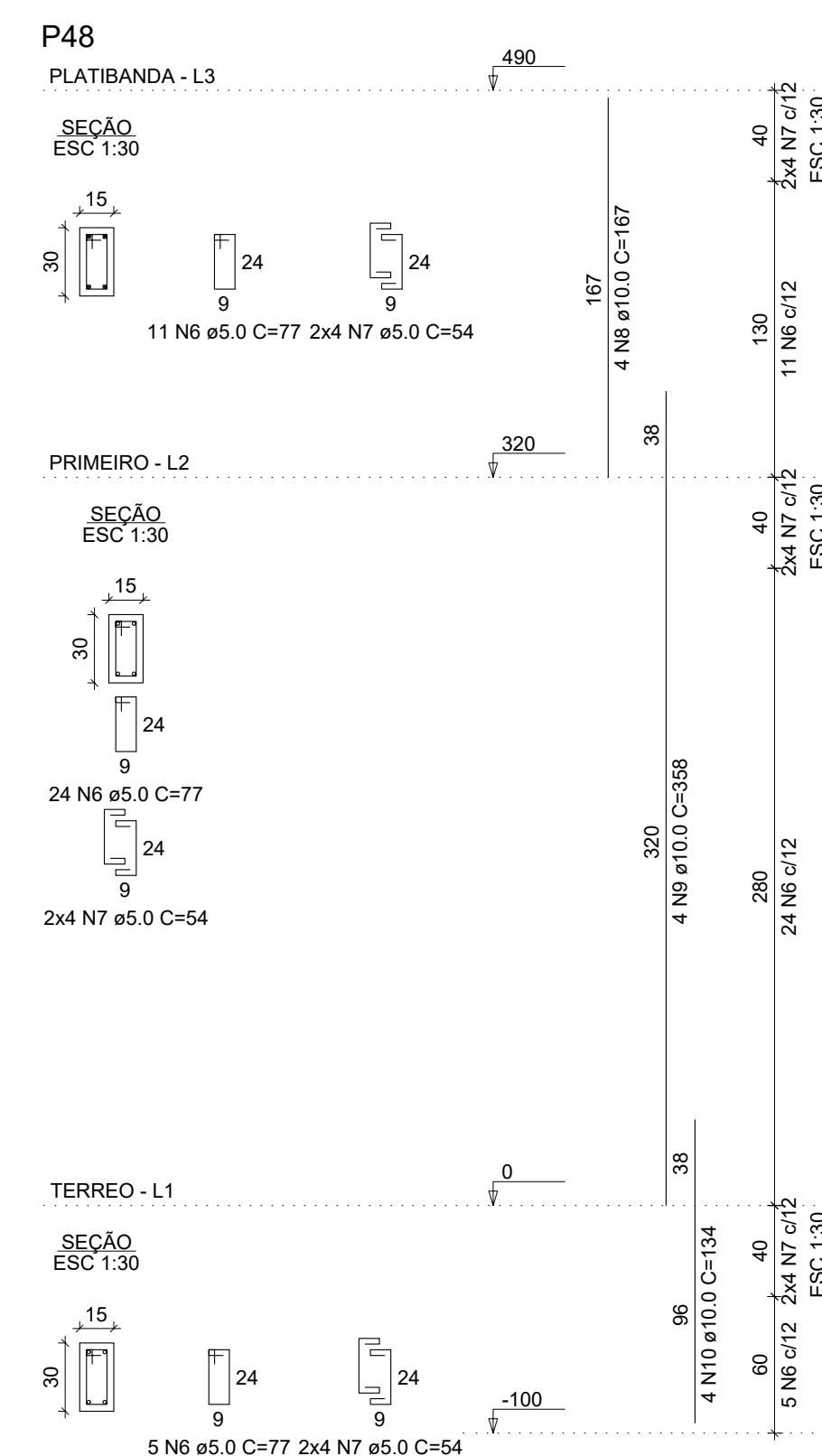
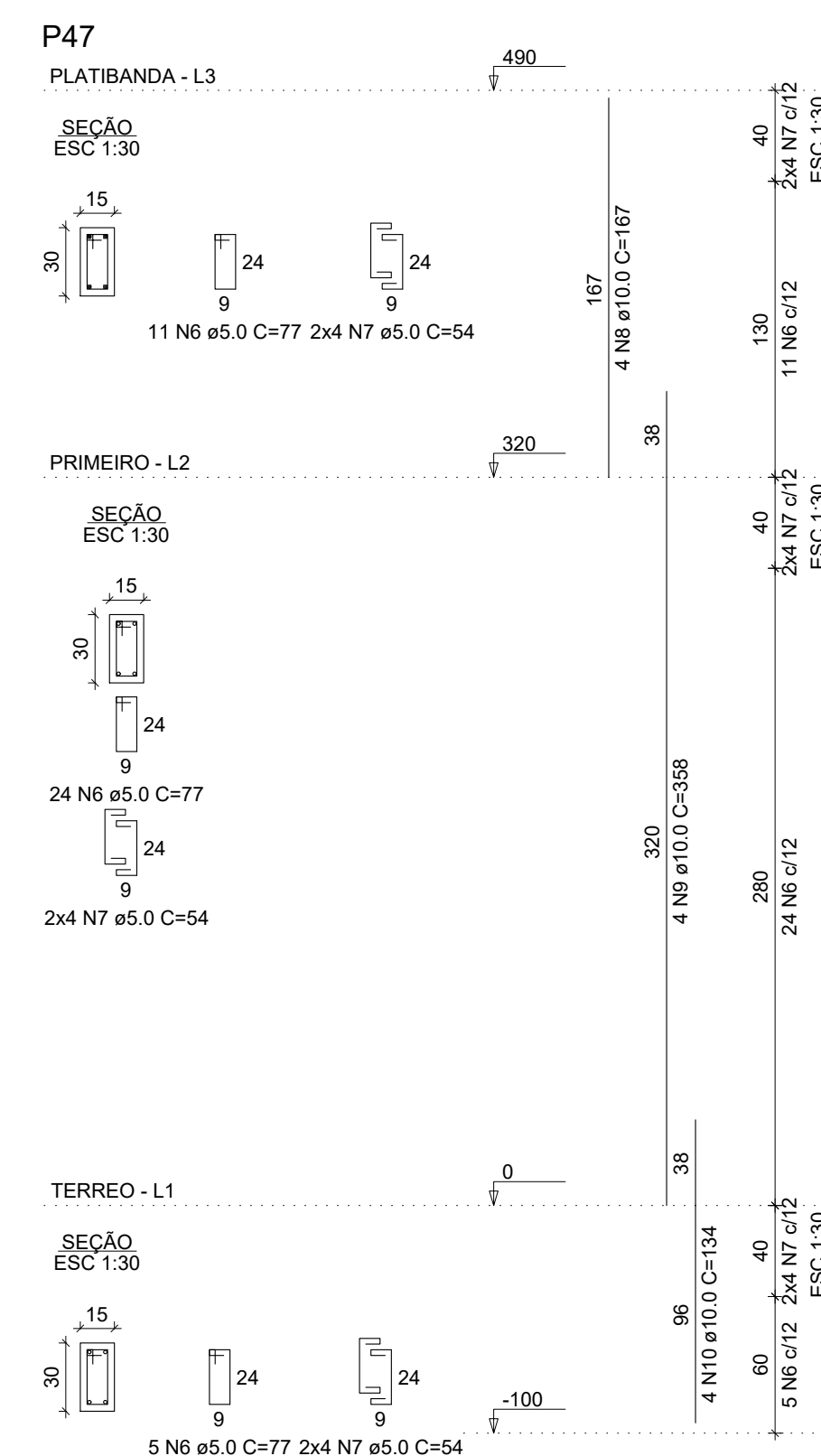
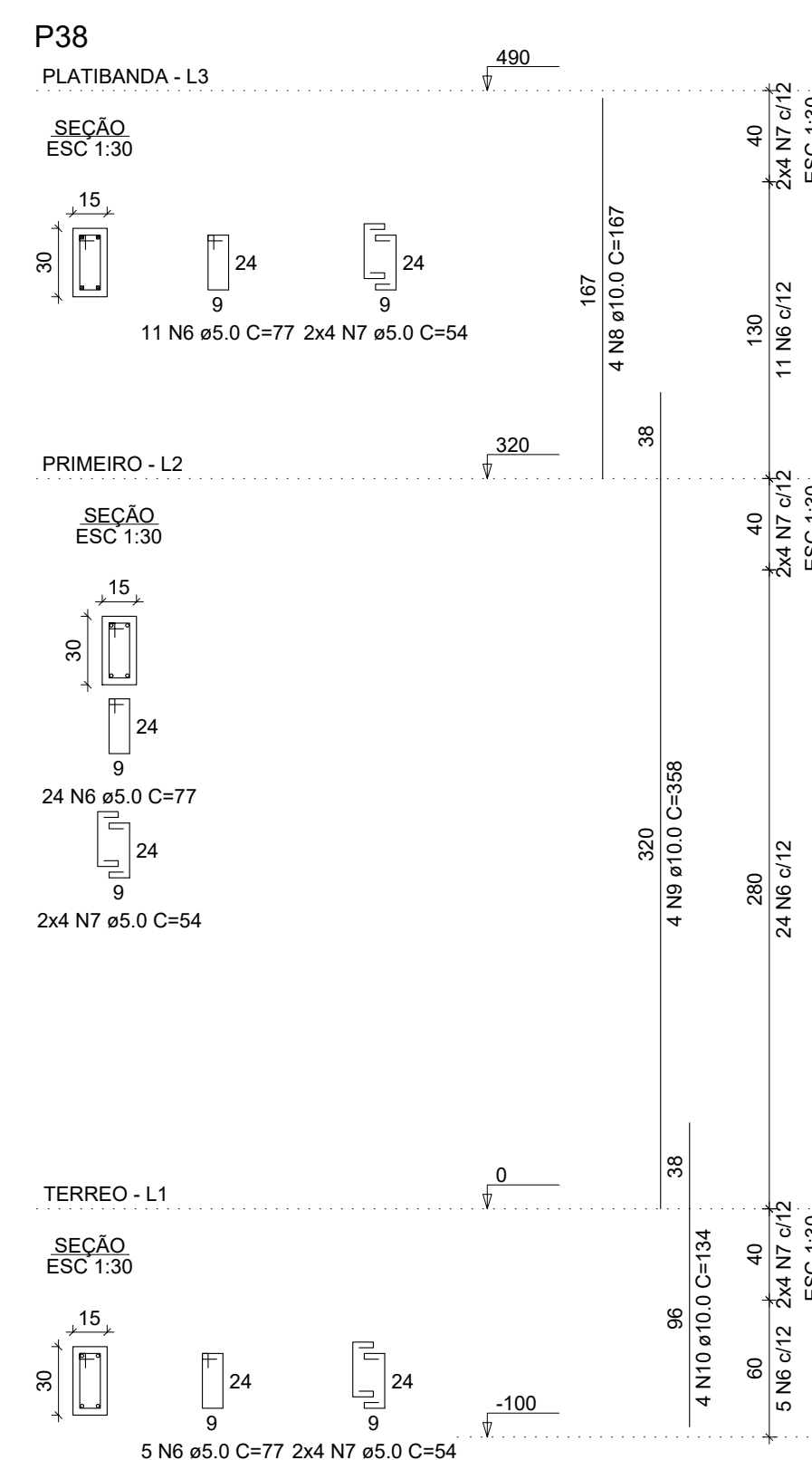
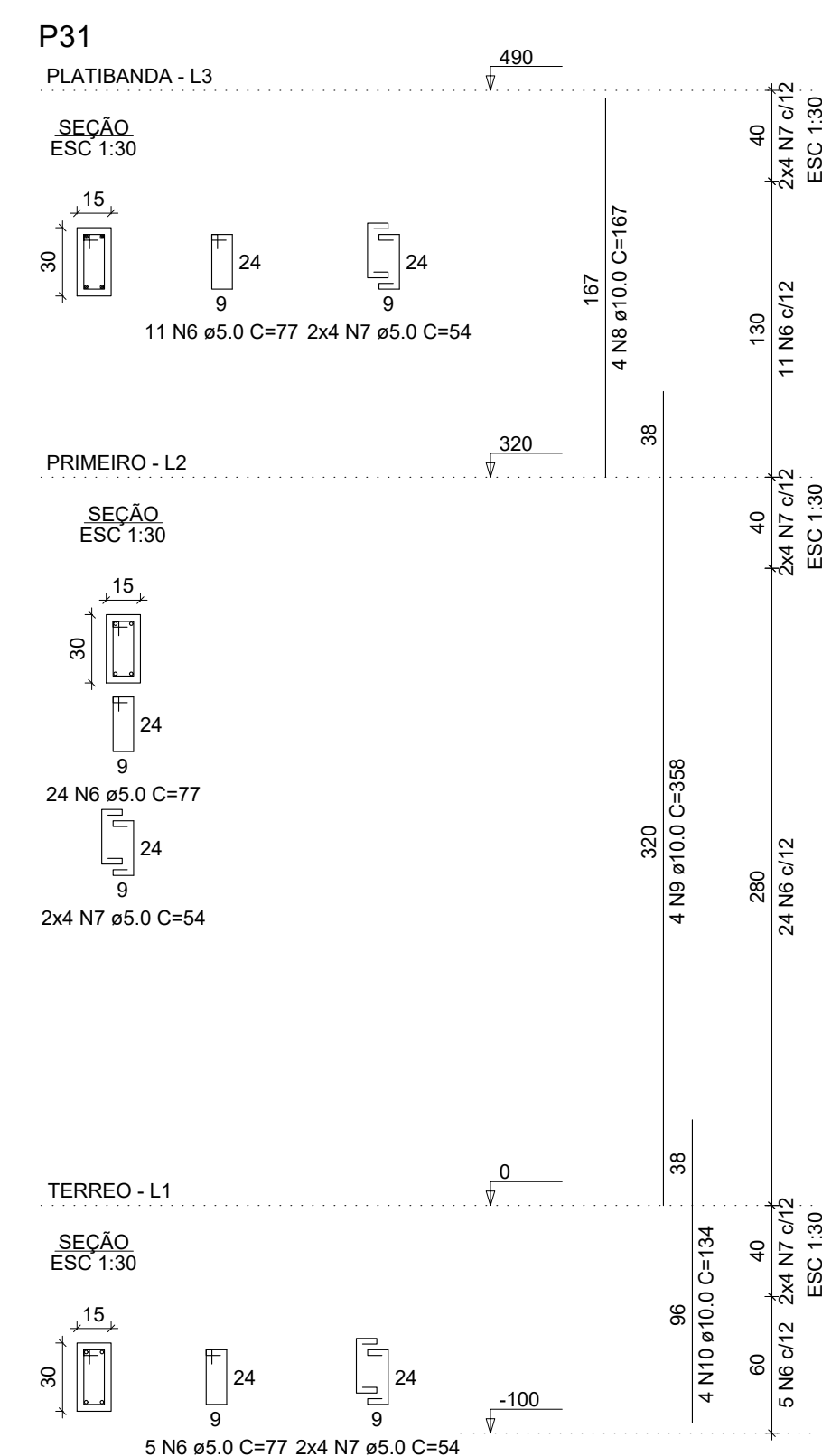


RELAÇÃO DO AÇO						
P40-12	P40-11	P45-12	P45-12			
P41-11	P42-12	P41-11	P44-12			
P43-12	P41-11	P44-12	P44-12			
P46-12	P41-11	P44-12	P44-12			
P46-12	P41-11	P44-12	P44-12			
P51-12	P51-11	P52-12	P52-12			
P51-12	P51-11	P52-12	P52-12			
P54-12	P54-11	P55-12	P55-12			
P54-12	P54-11	P55-12	P55-12			
P57-12	P57-11	P58-12	P58-12			
P58-12	P58-12	P59-11	P59-11			
P60-12	P60-11	P61-12	P61-12			
P64-12	P64-12	P67-11	P67-11			
P63-12	P63-11	P64-12	P64-12			
P64-12	P64-12	P67-11	P67-11			
P66-12	P66-12	P70-12	P70-12			
P70-11	P70-11	P71-12	P71-12			
P72-12	P72-11					

ACO	N	DIAM (mm)	Q.T. UNIT (cm)	C. TOTAL (cm)
CABO	1	5,0	522	3974
	2	5,0	288	54
	3	5,0	136	87
	4	5,0	64	60
	5	5,0	24	24
CASO	6	5,0	169	77
	7	5,0	147	1313
	8	10,0	77	24
	9	10,0	32	3401
	10	10,0	14	3220
	11	10,0	9	2044
	12	10,0	75	150
	13	12,5	50	82
	14	12,5	47	1928
	14	12,5	4	94
376				

RESUMO DO AÇO				
ACO	DIAM (mm)	TOTAL (kg)	QUANT = 0% (Barra)	UNIT
CASO	10,0	508,4	43	12 m
CASO	12,5	164	2	12 m
CASO	5,0	854,3	-	reolo (170 kg)

PESO TOTAL			
ACO	329,3	PESO	131,7
CASO	329,3		
CASO	329,3		
Volume de concreto (C 25) = 59 m³			
Área de forma = 101,96 m²			



RELAÇÃO DO AÇO		
P2-13	P14-2	P3-1
P2-13	P14-2	P3-1
P3-13	P4-2	P4-1
P11-13	P11-2	P11-1
P12-13	P12-2	P12-1
P13-13	P13-2	P13-1
P14-13	P14-2	P14-1
P15-13	P15-2	P15-1
P22-13	P22-2	P22-1
P23-13	P23-2	P23-1
P30-13	P30-2	P30-1
P31-13	P31-2	P31-1
P38-13	P38-2	P38-1
P47-13	P47-2	P47-1
P67-13	P67-2	P67-1
P68-13	P68-2	P68-1
P76-13	P76-2	P76-1
P77-13	P77-2	P77-1
P85-13	P85-2	P85-1
P92-13	P92-2	P92-1
P106-13	P106-2	P106-1
P108-13	P108-2	P108-1
P119-13		P119-2

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	160	87	13920
	2	5,0	96	64	6144
	3	5,0	104	29	3016
	4	5,0	80	107	8560
CA50	5	5,0	848	74	35252
	6	5,0	508	54	27432
	8	10,0	108	187	18036
	9	10,0	100	358	35800
	10	10,0	108	134	14472
	11	10,0	8	92	736
	12	10,0	8	317	2536
	13	16,0	8	317	2536
	14	16,0	8	380	3040

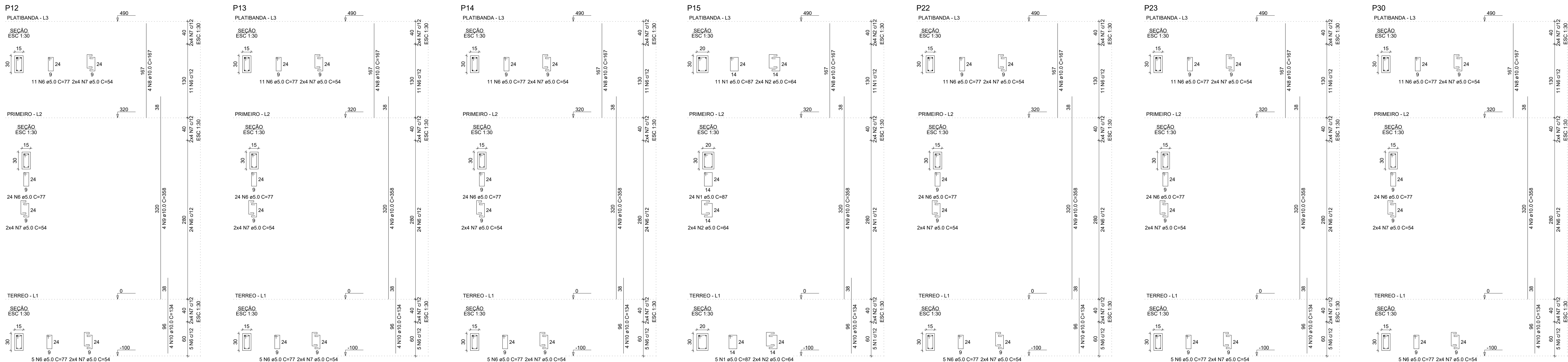
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	715.8	60	12 m	441.3
	16.0	75.1	7	12 m	118.6
CA60	5.0	1279.2	-	rolo (170 kg)	197.2

PESO TOTAL (kg)

CA50	559.9
CA60	497.2

Volume de concreto (C-25)

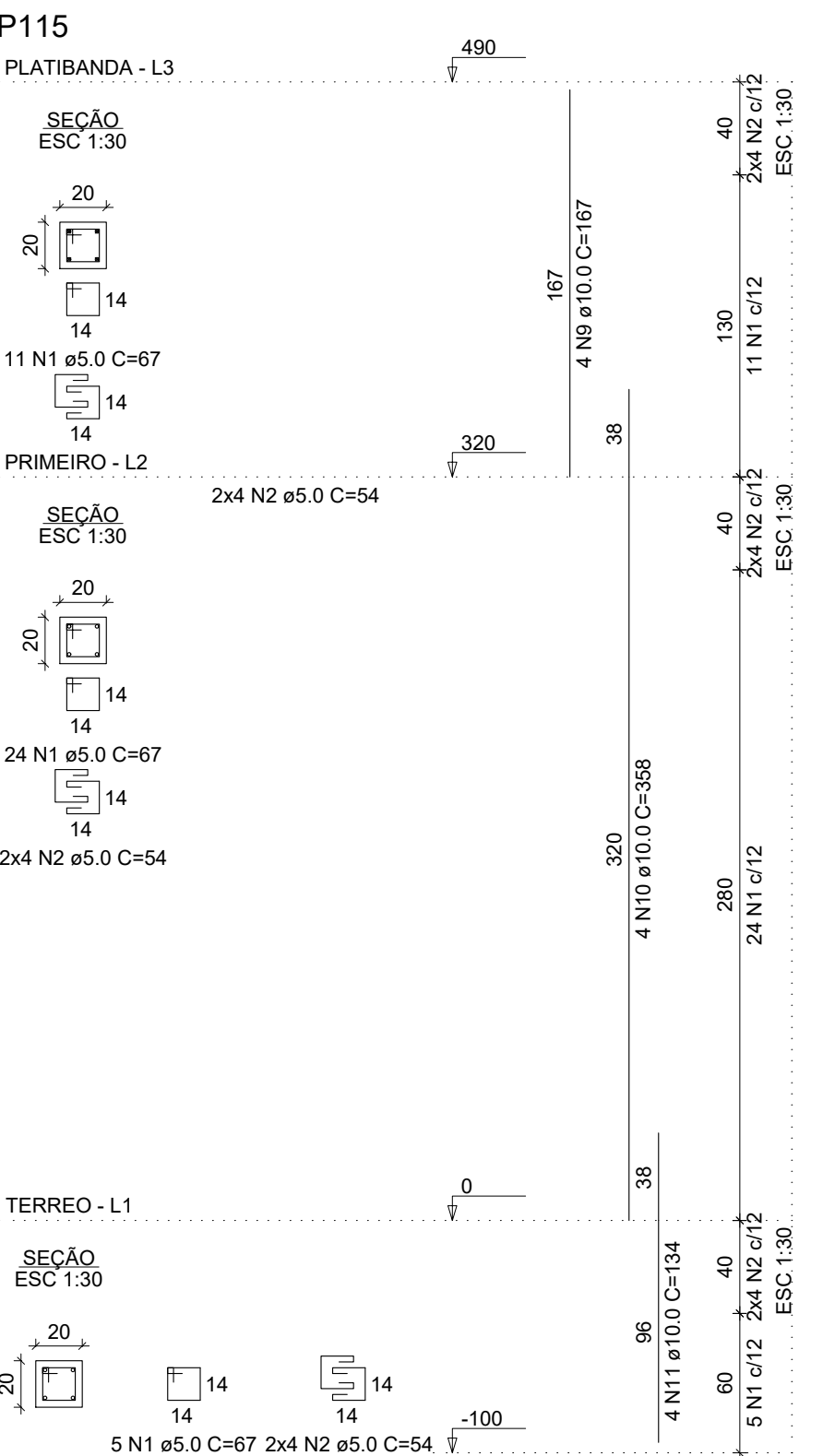
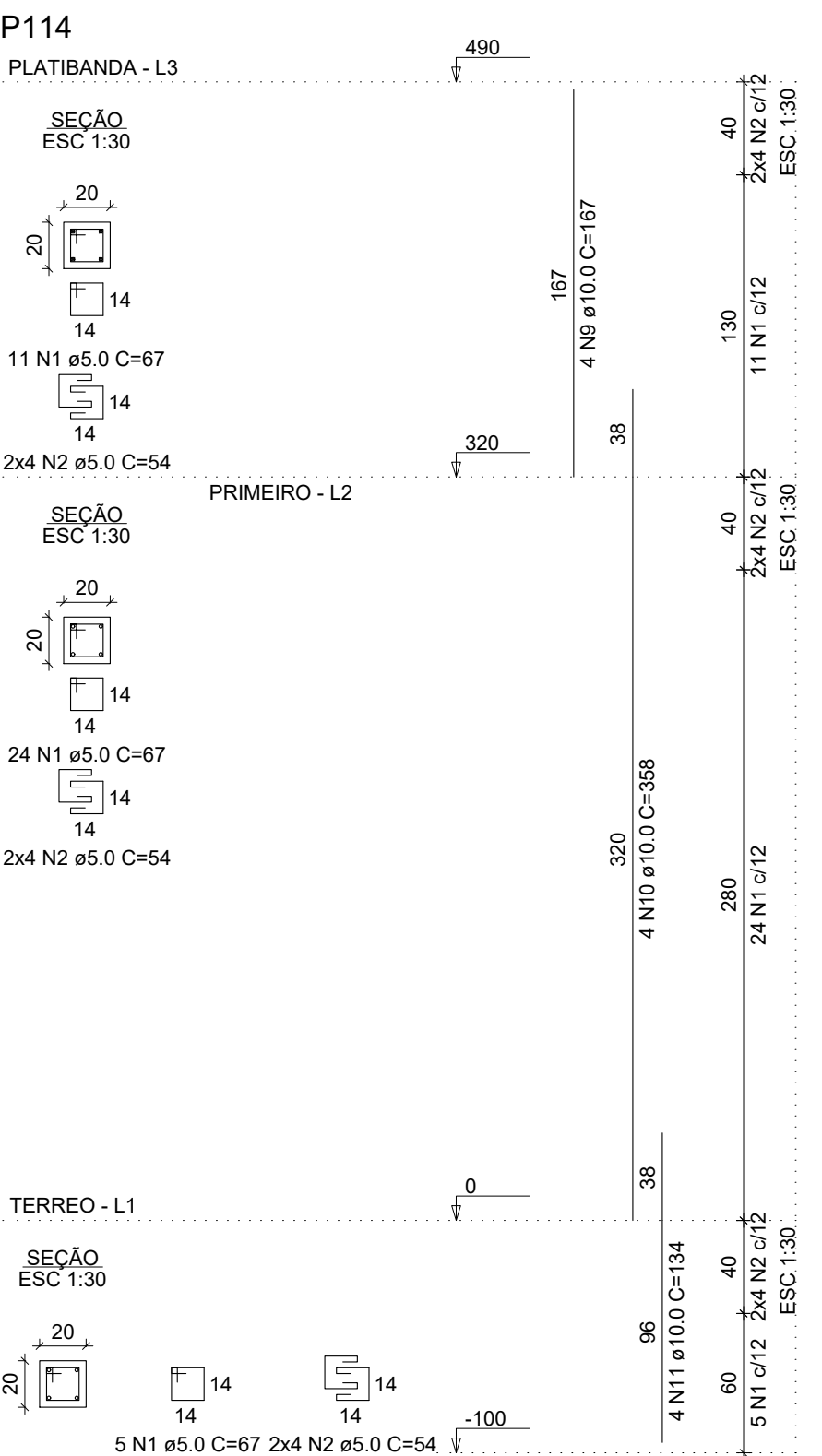
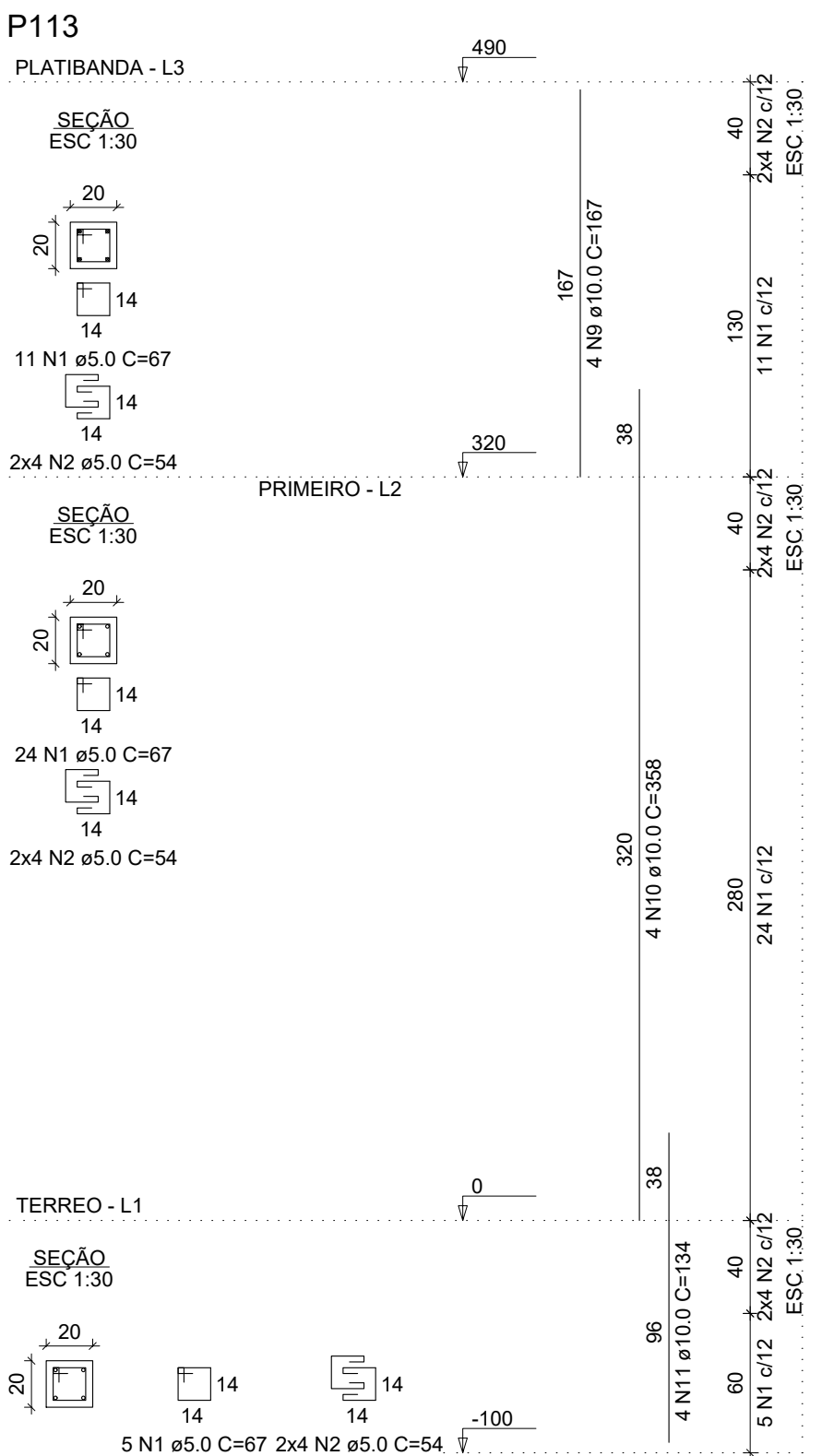
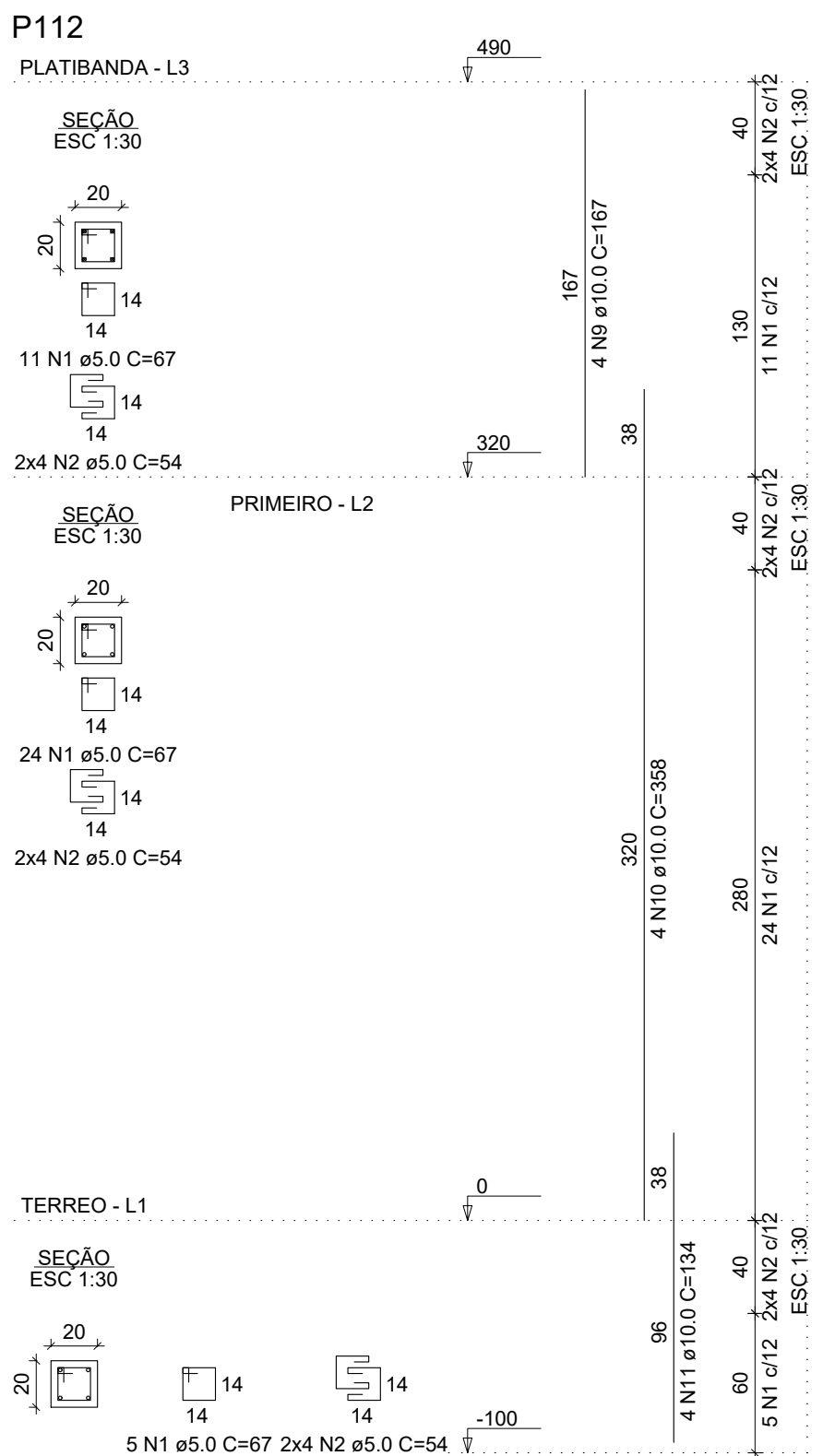
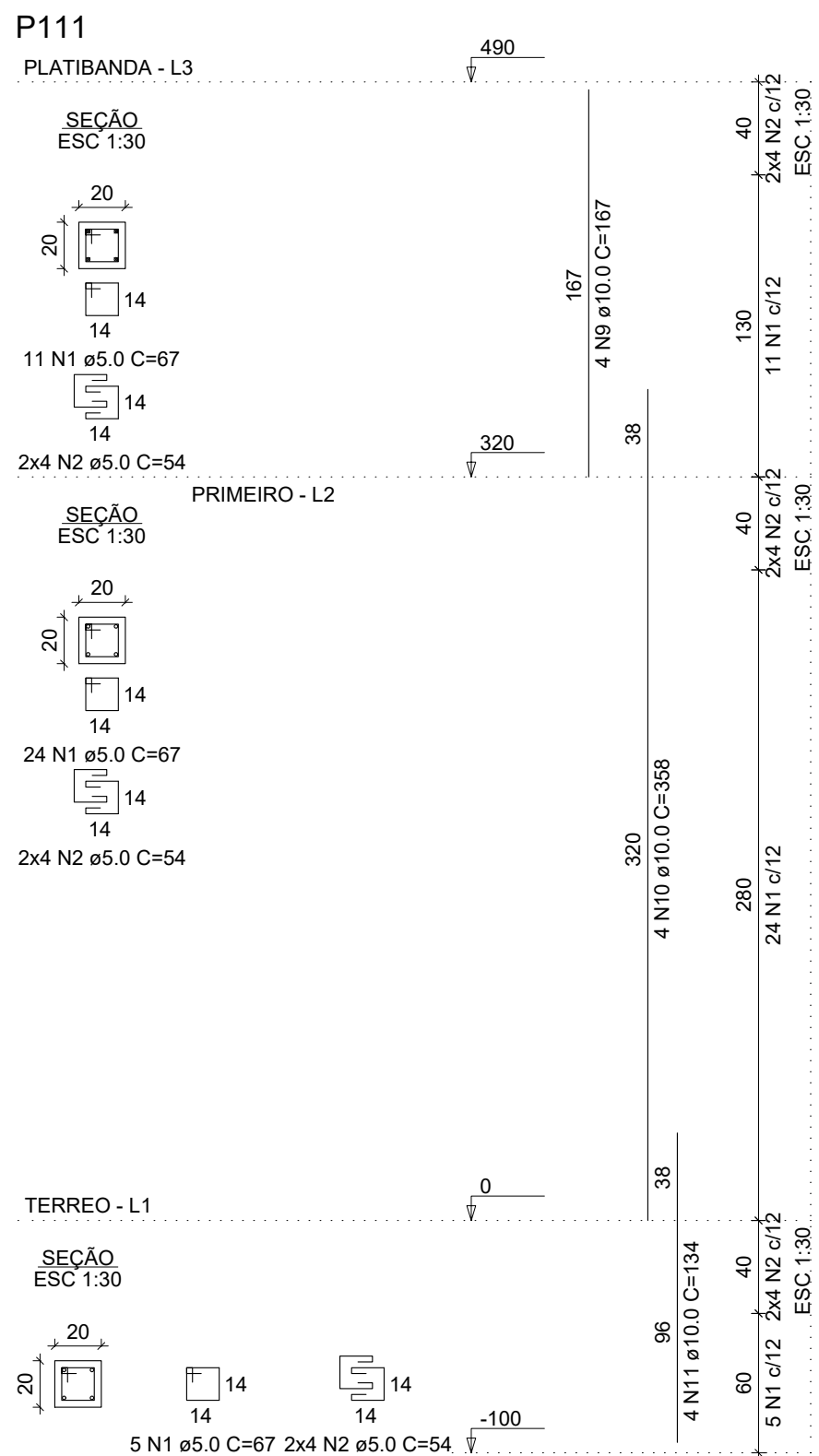
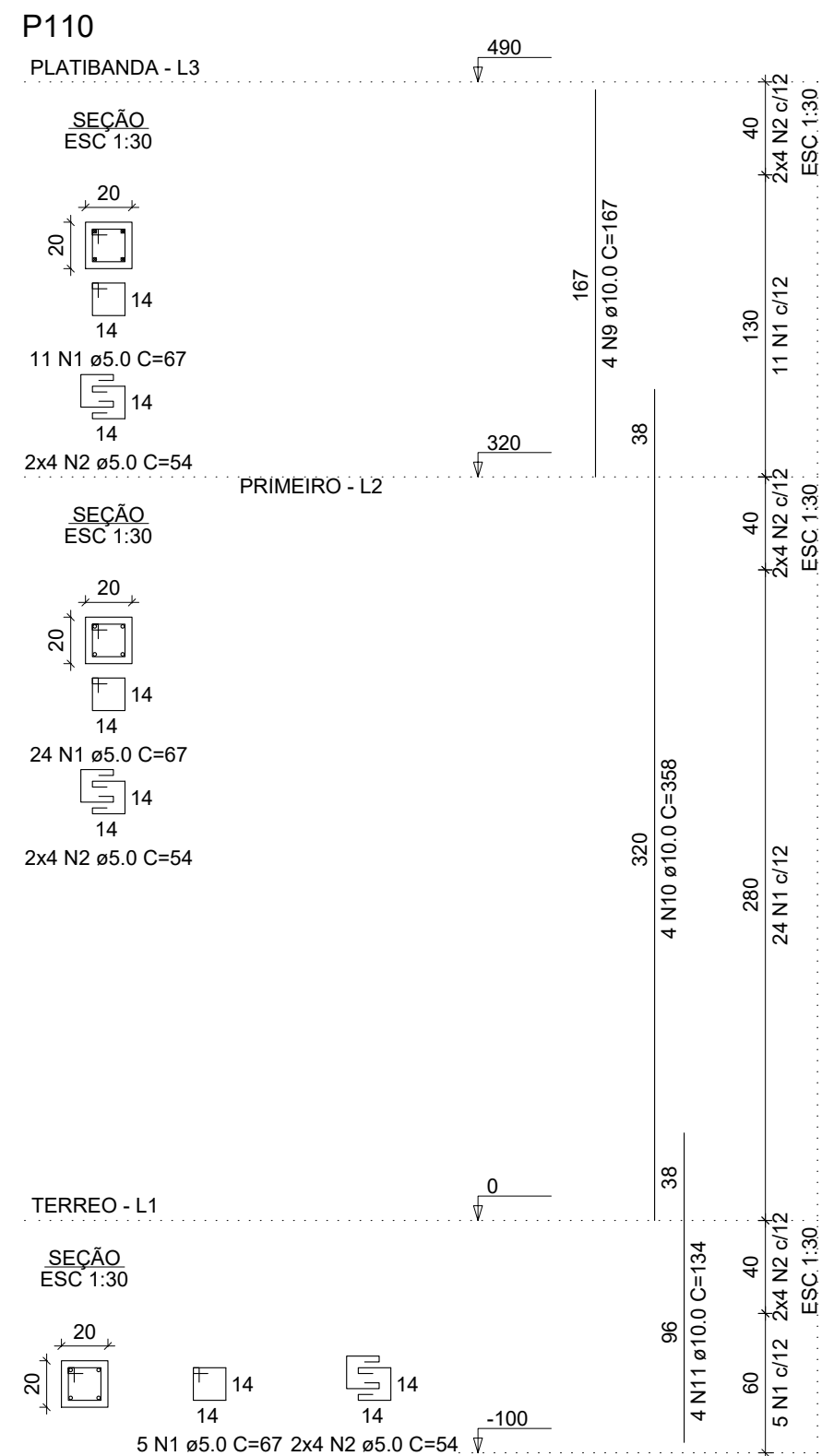
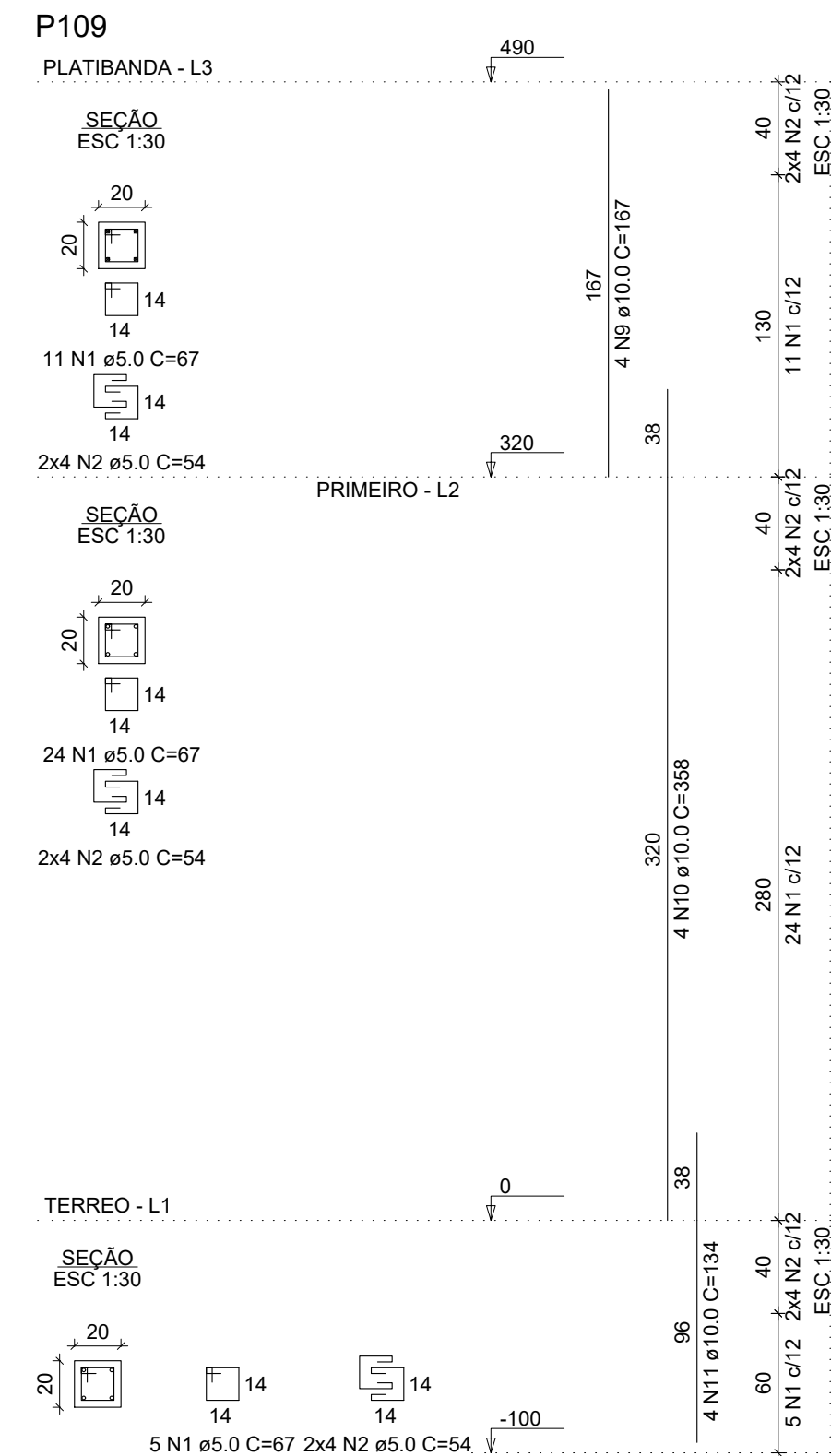
OBS: ESSA TABELA SE REFERE TAMBÉM A FERRAGEM DA PRANCHA PILARES DA ESTRUTURA III-B



AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL
CA60	1	5.0	160	87	13920
	2	5.0	96	69	3168
	3	5.0	104	24	616
	4	5.0	80	107	8560
	5	5.0	48	74	3552
CA50	6	5.0	848	77	65296
	7	5.0	508	54	27432
	8	10.0	108	167	18036
	9	10.0	100	358	35800
	10	10.0	108	134	14472
	11	10.0	8	92	736
	12	10.0	8	317	2536
	13	16.0	8	317	2536
	14	16.0	8	380	3040
15	16.0	16	121	1936	

Volume de concreto (C-25) = 8.05 m³
Área de forma = 151.52 m²

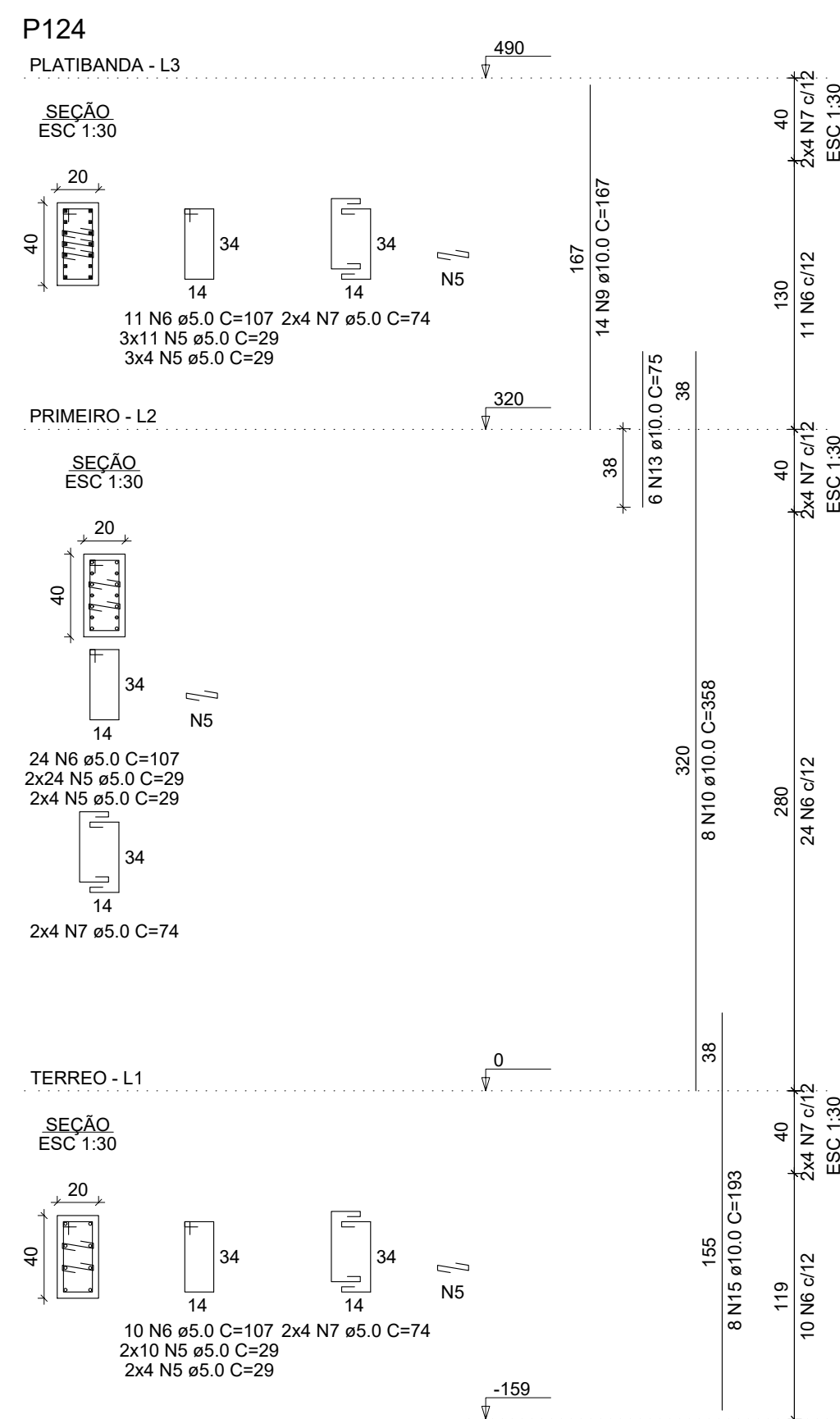
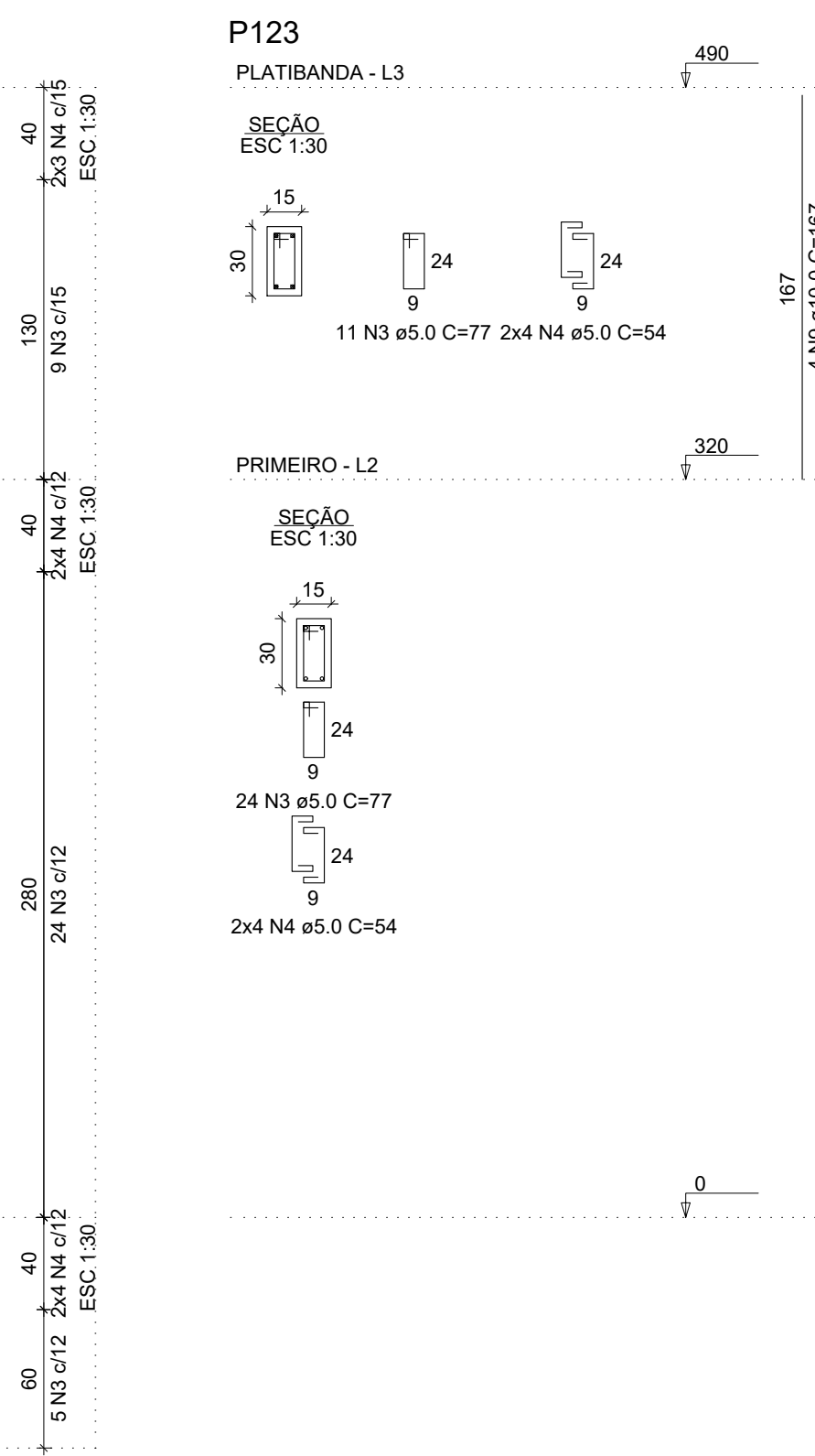
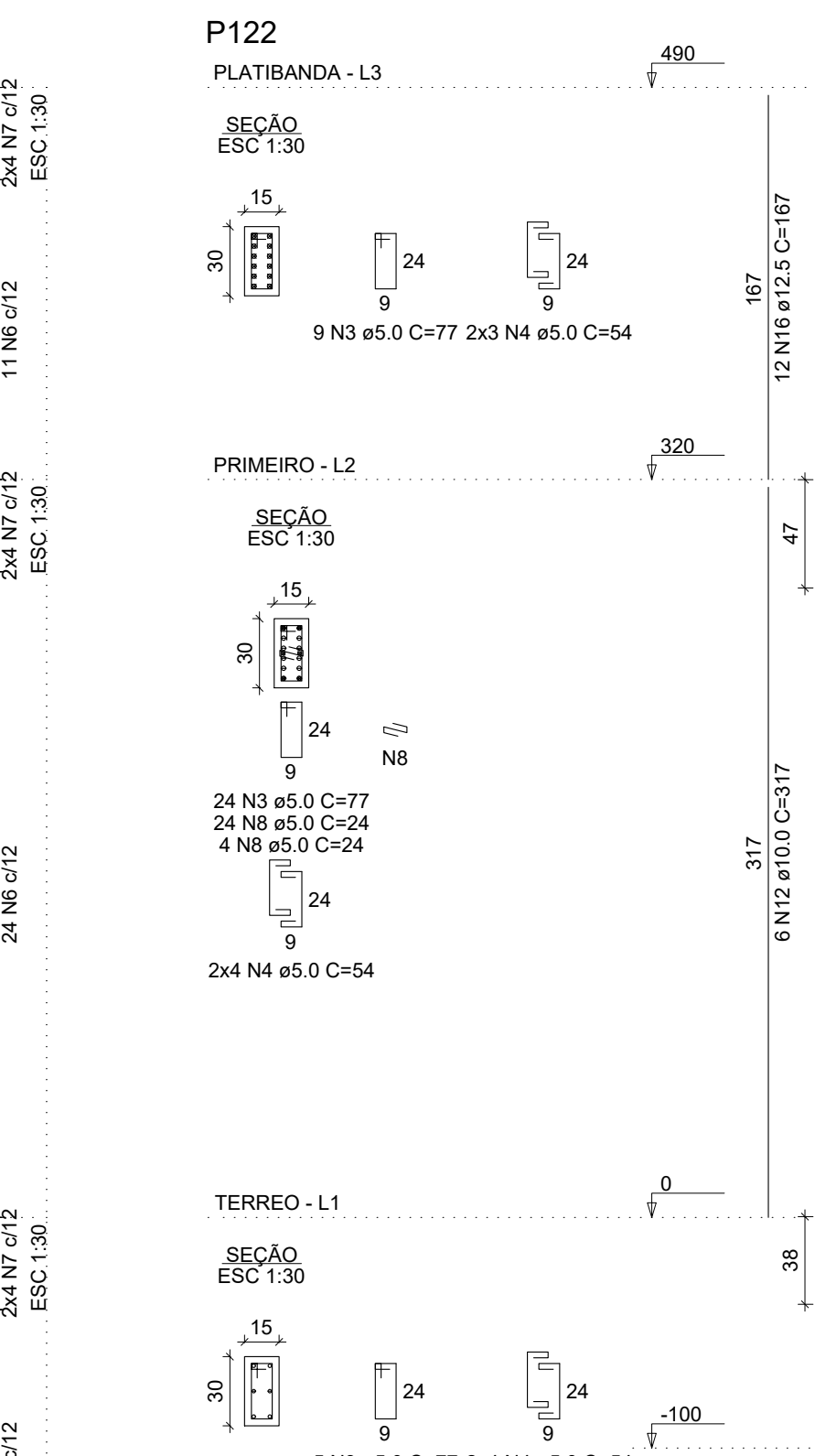
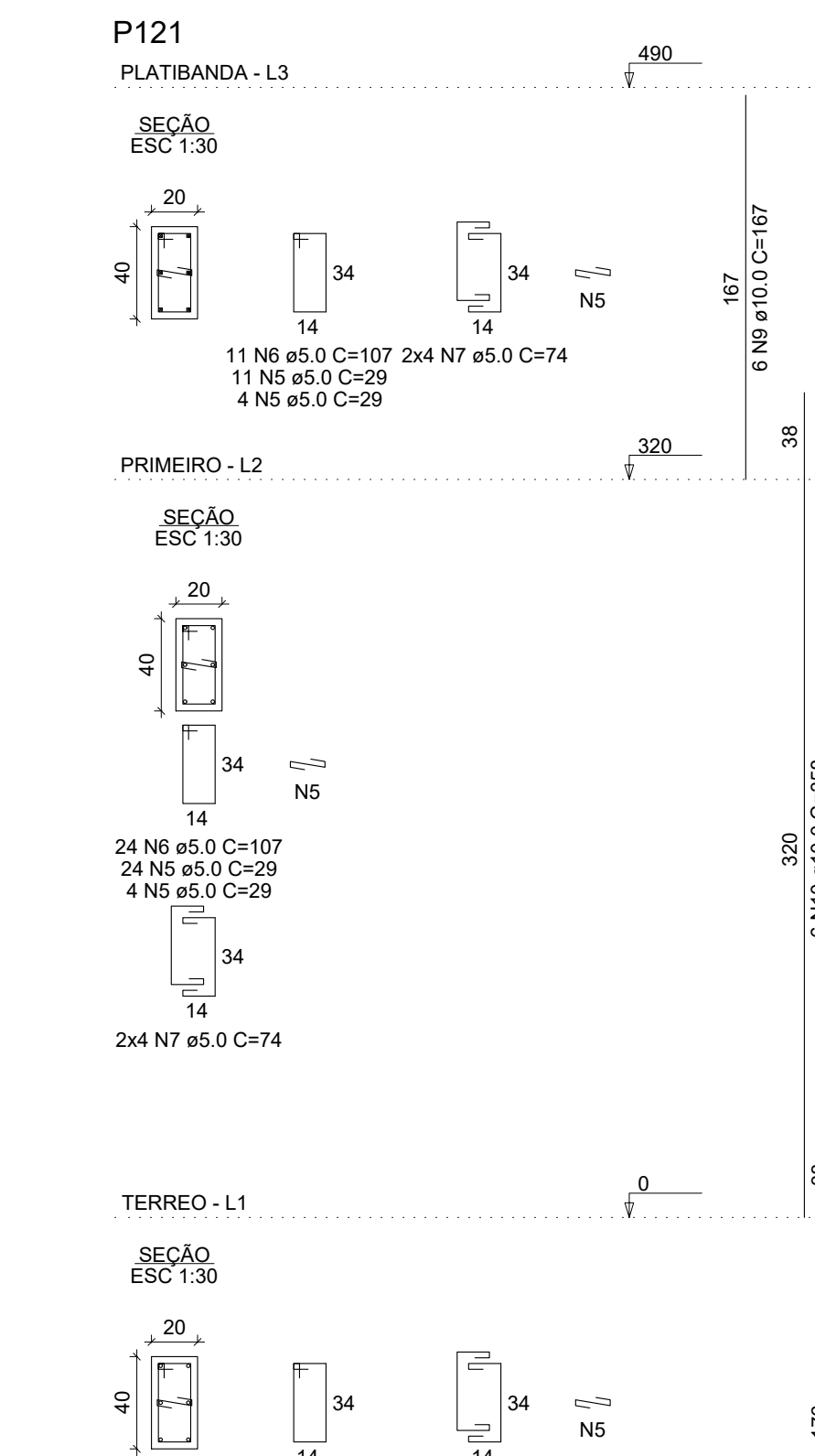
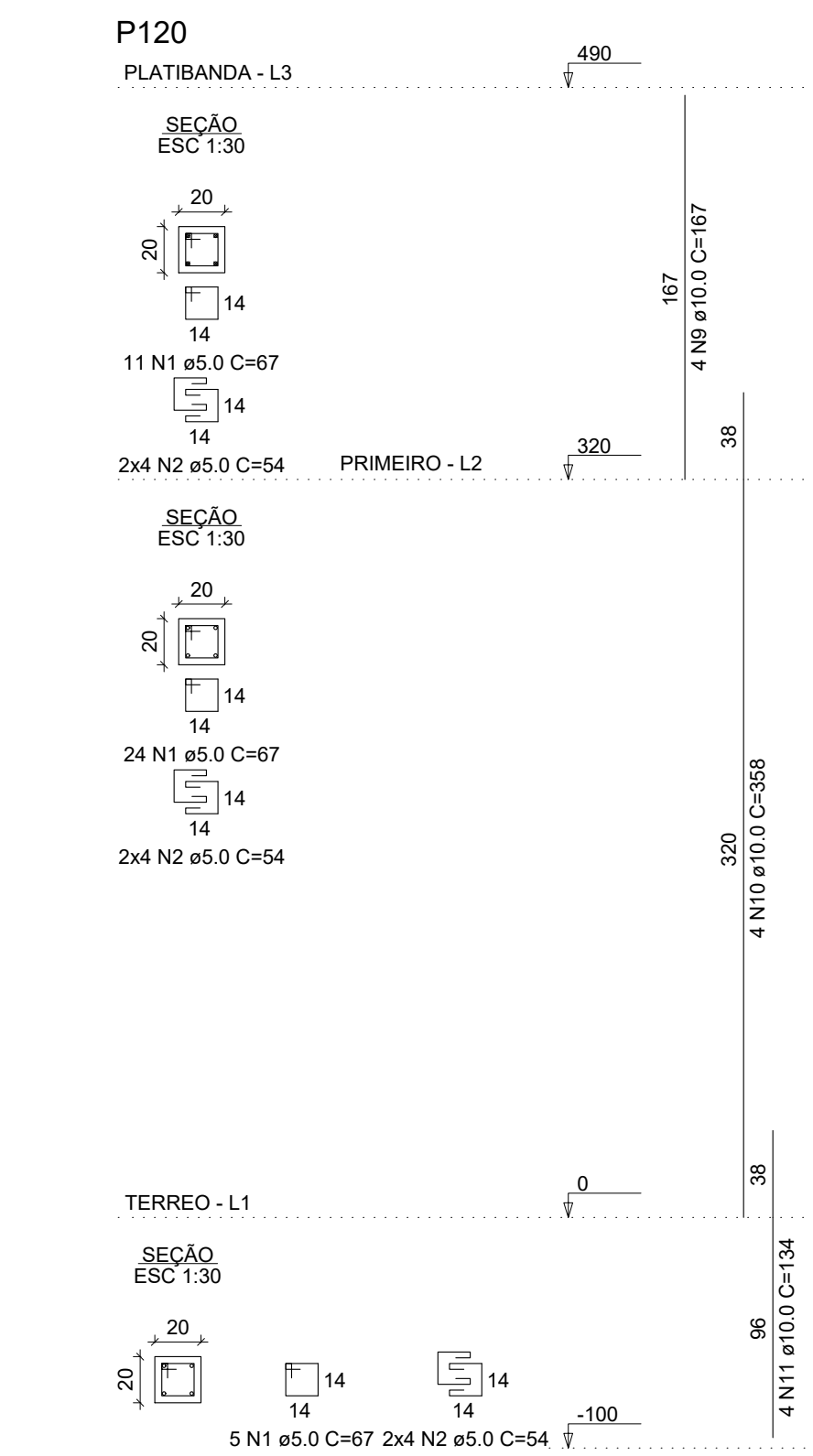
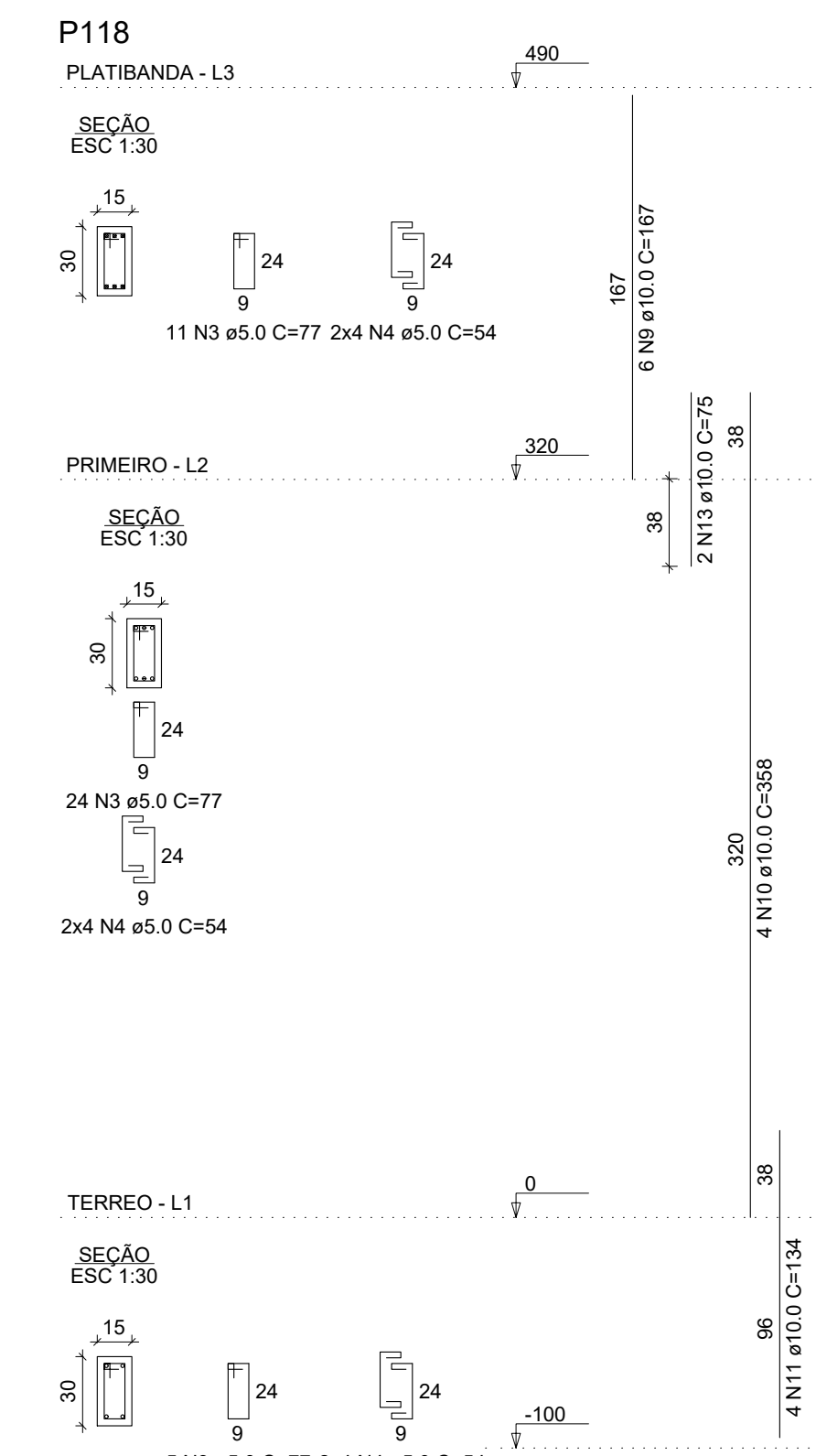
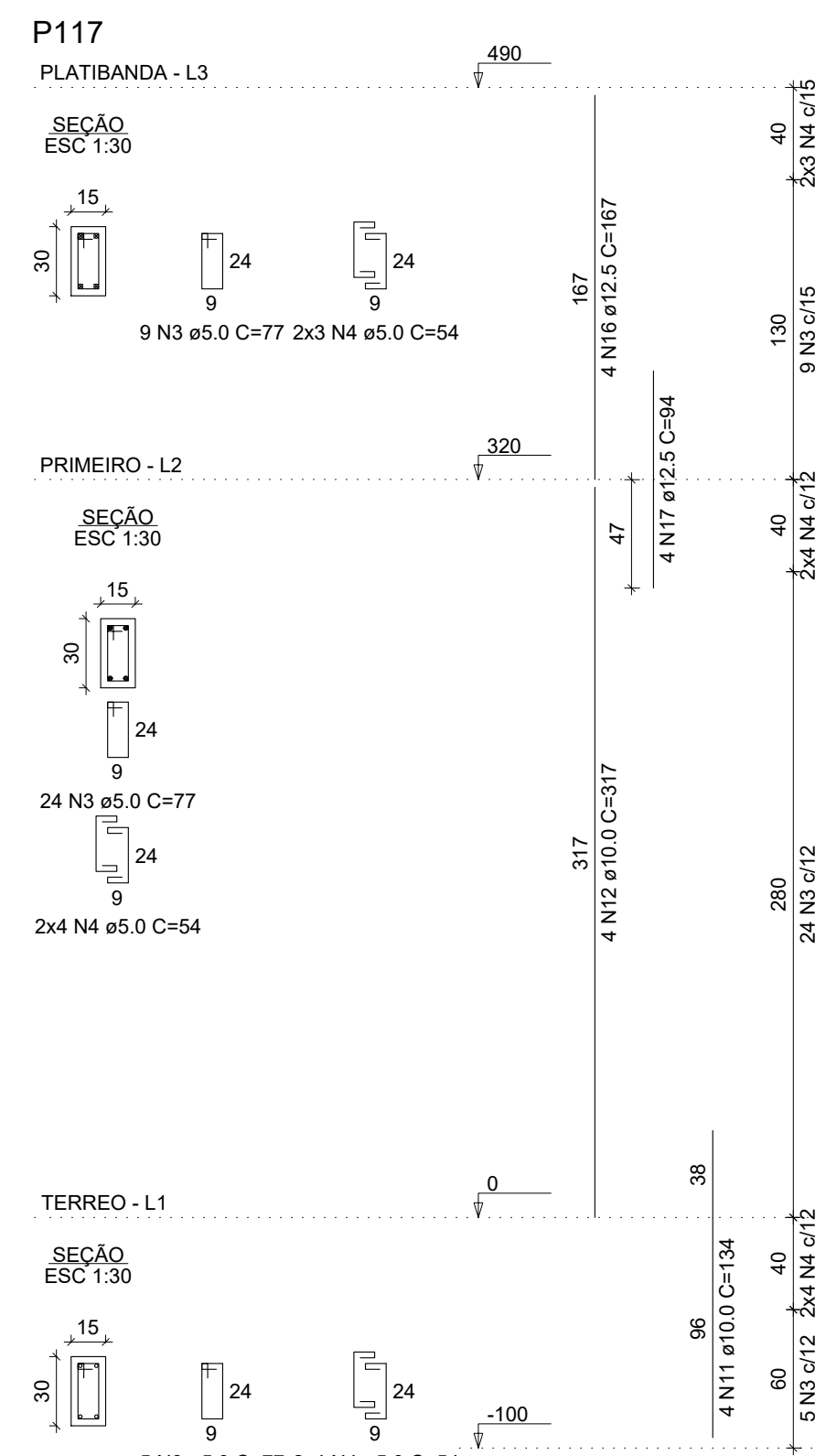
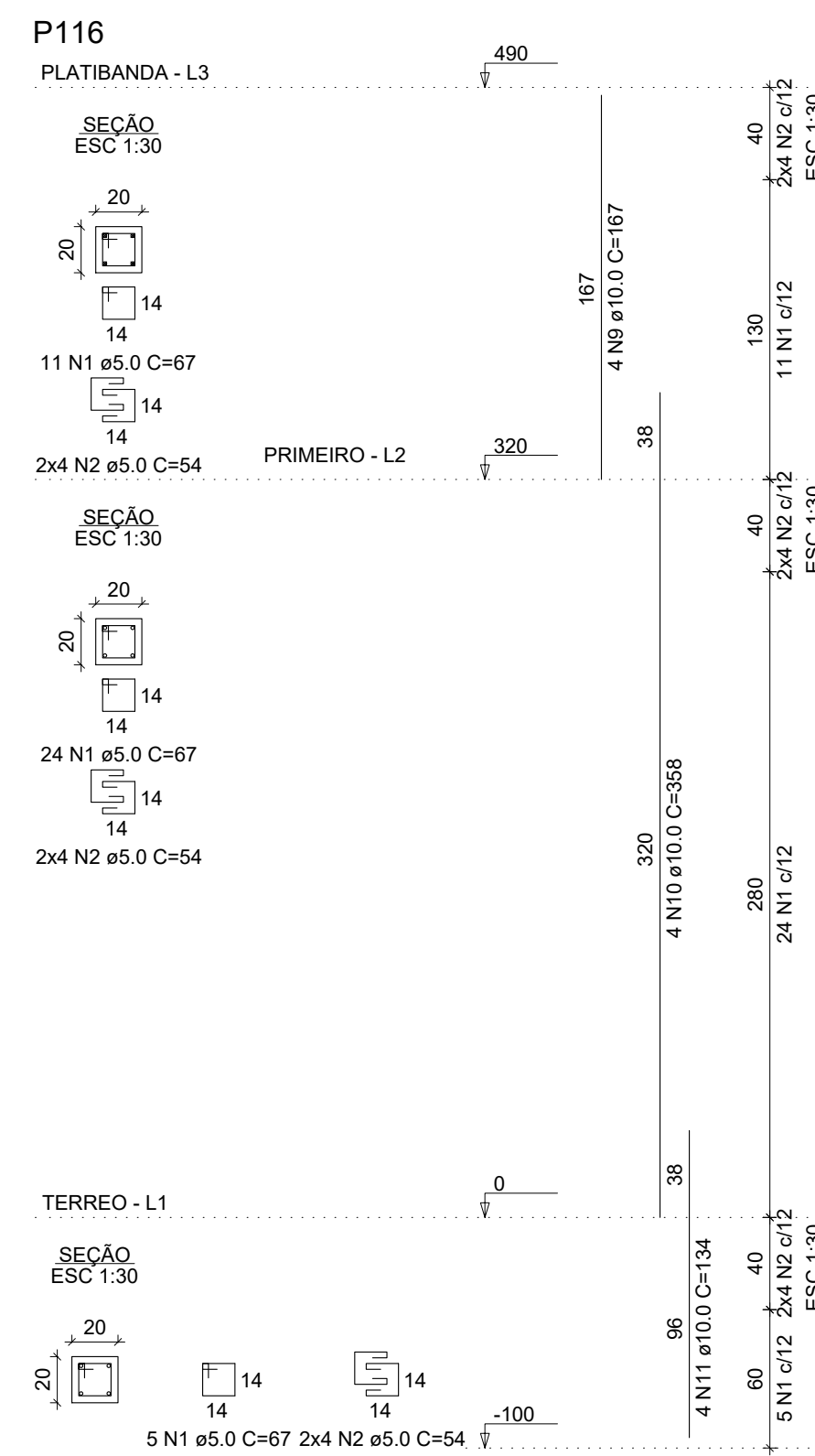
OBS: ESSA TABELA SE REFERE TAMBÉM A FERRAGEM DA PRANCHA PILARES DA ESTRUTURA III-A

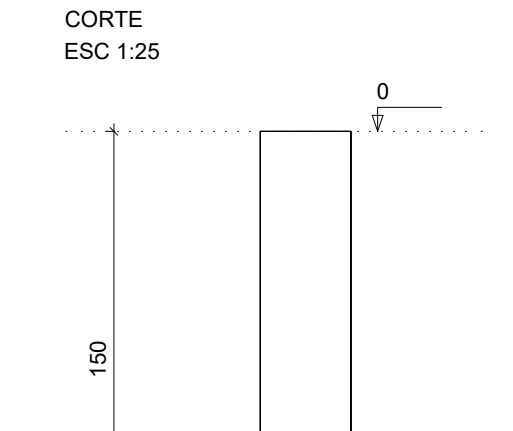
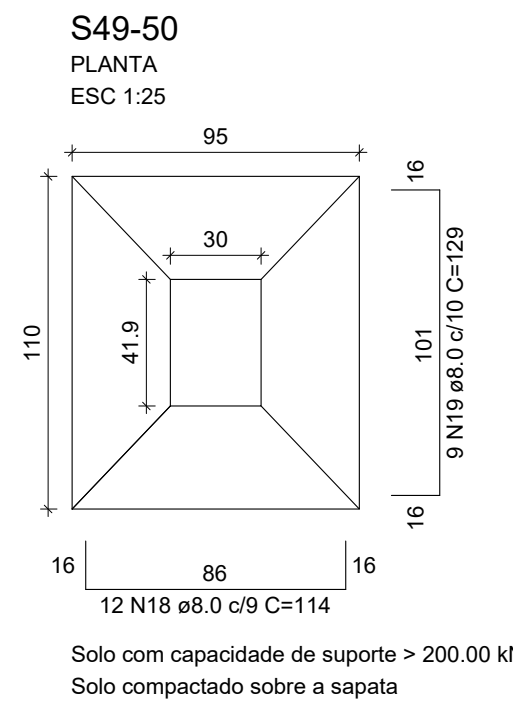
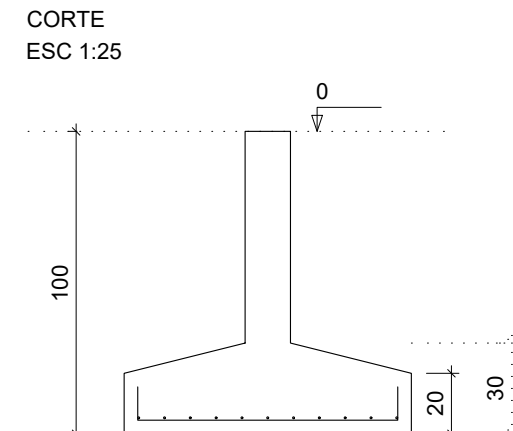
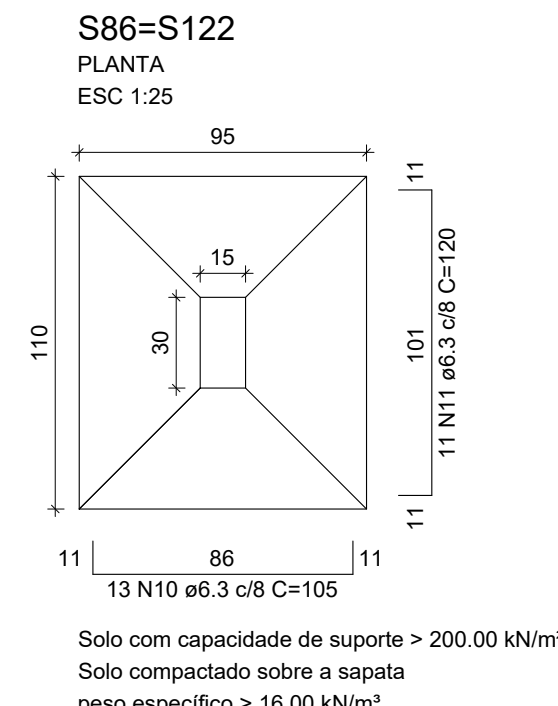
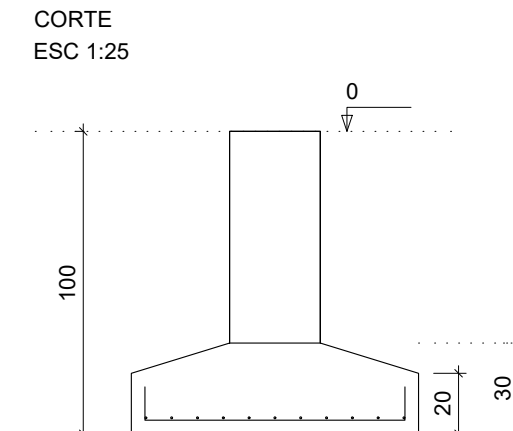
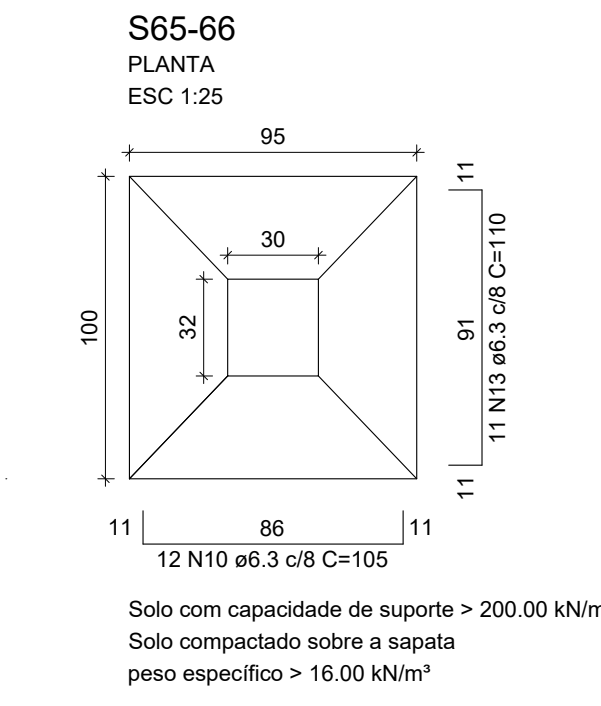
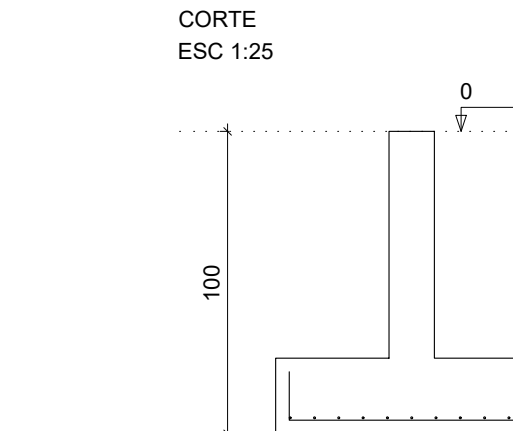
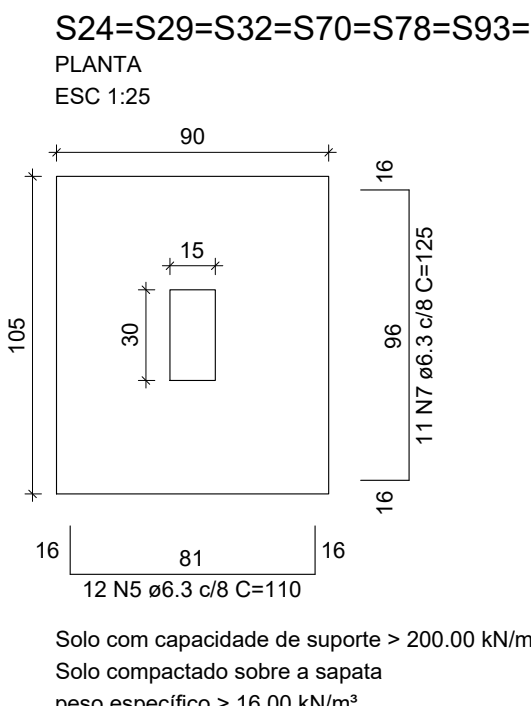
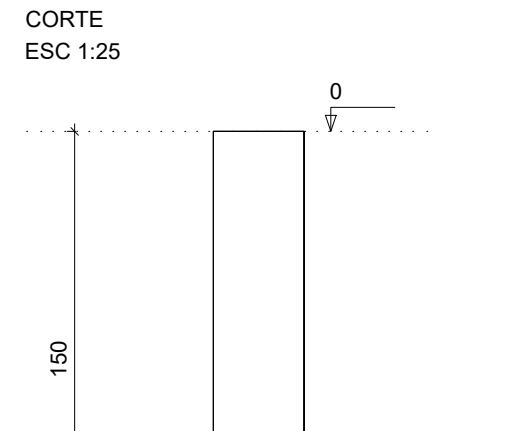
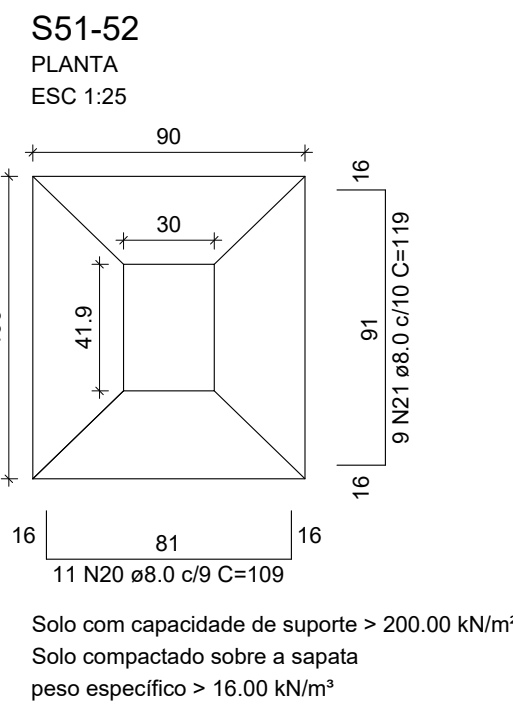
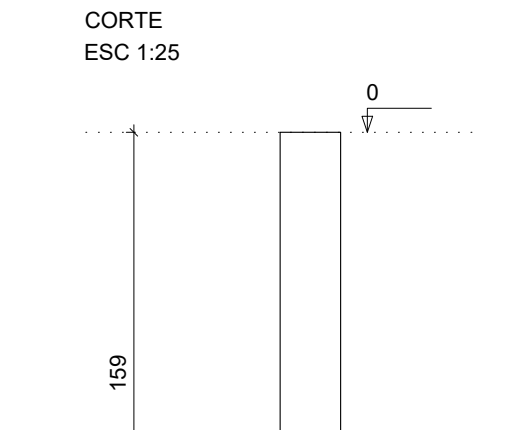
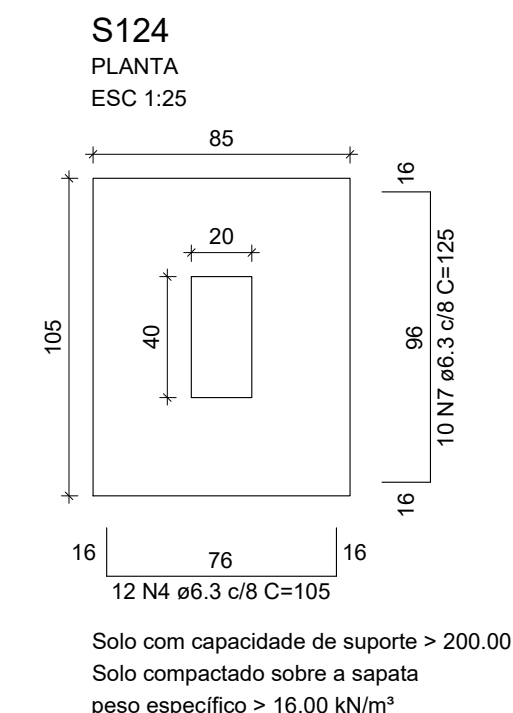
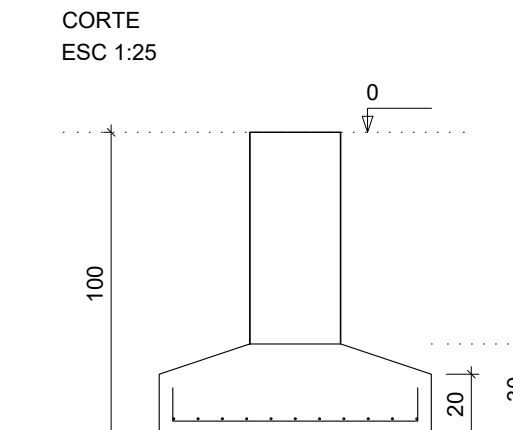
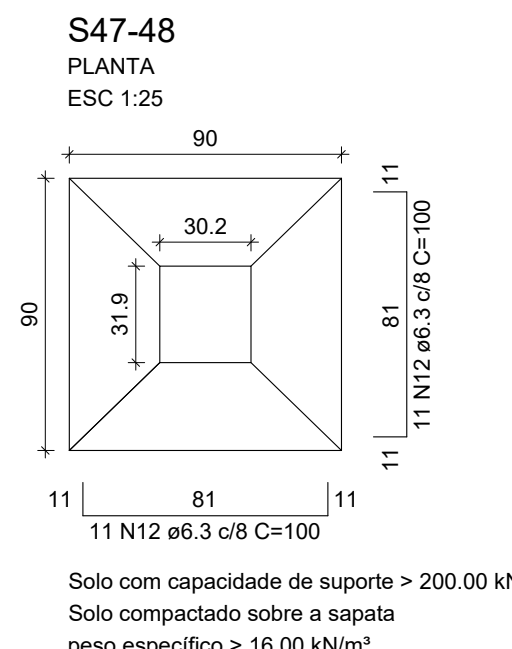
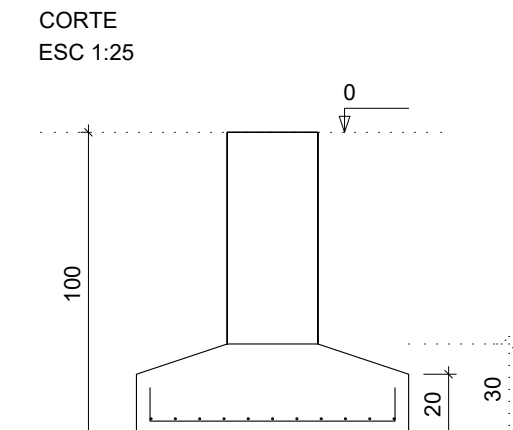
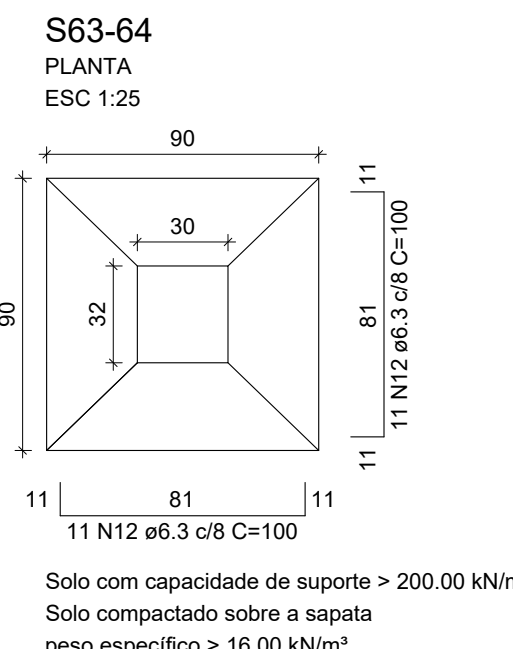
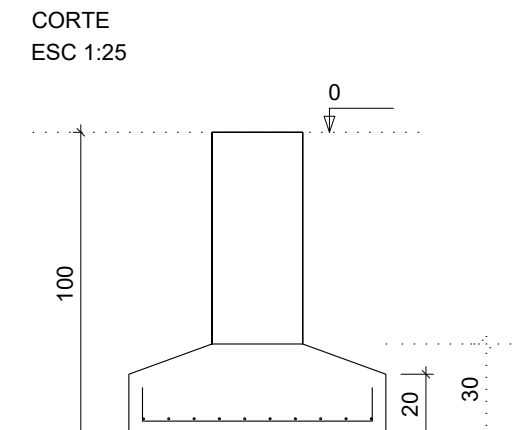
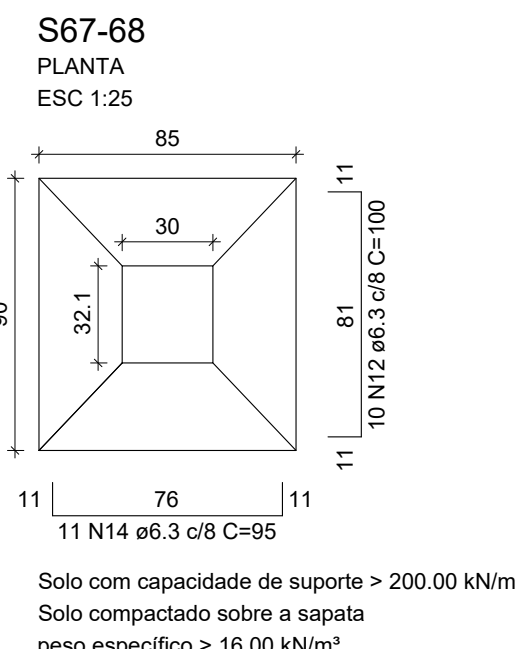
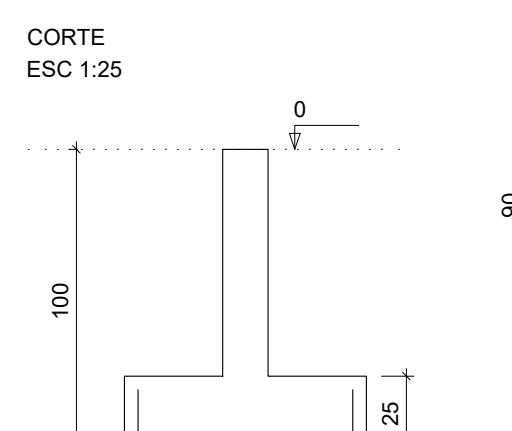
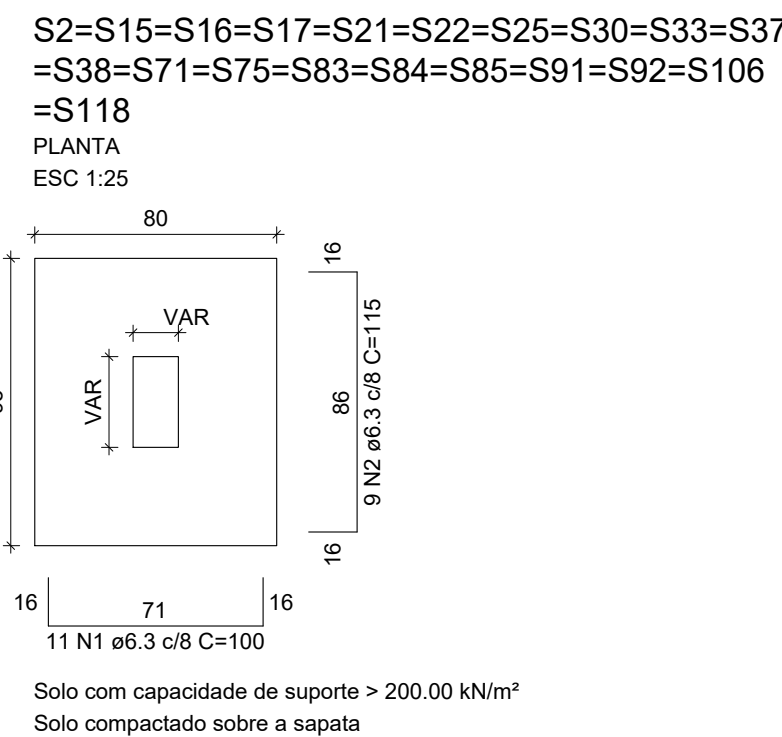
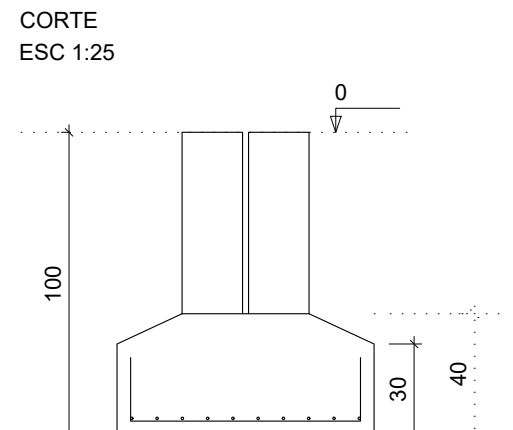
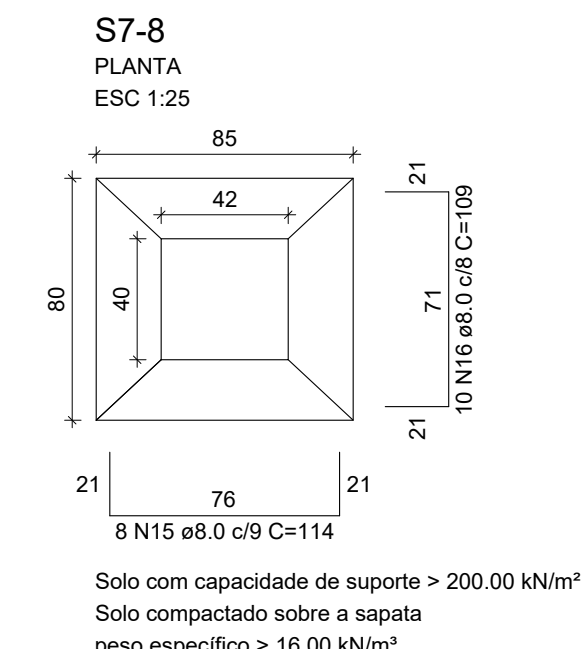
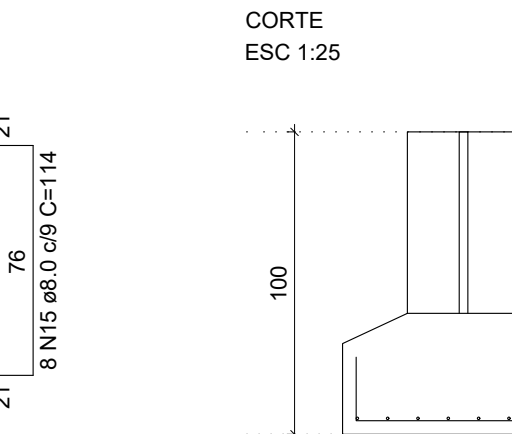
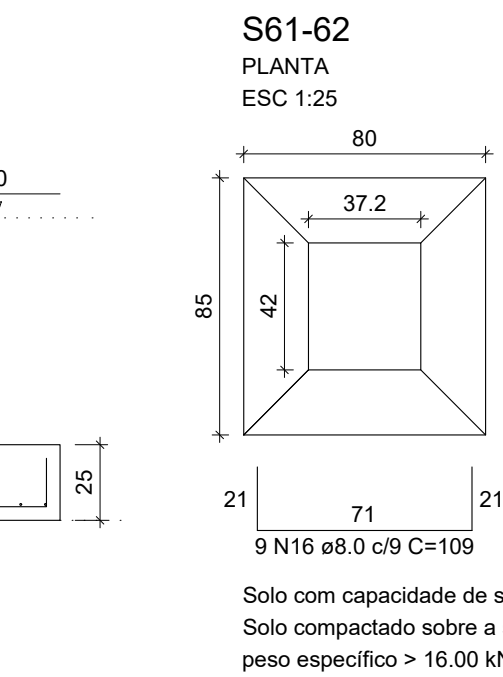
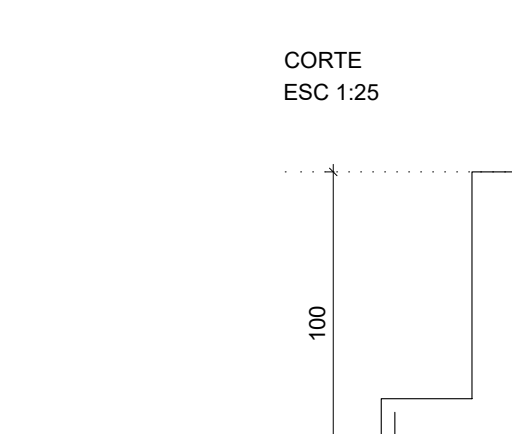
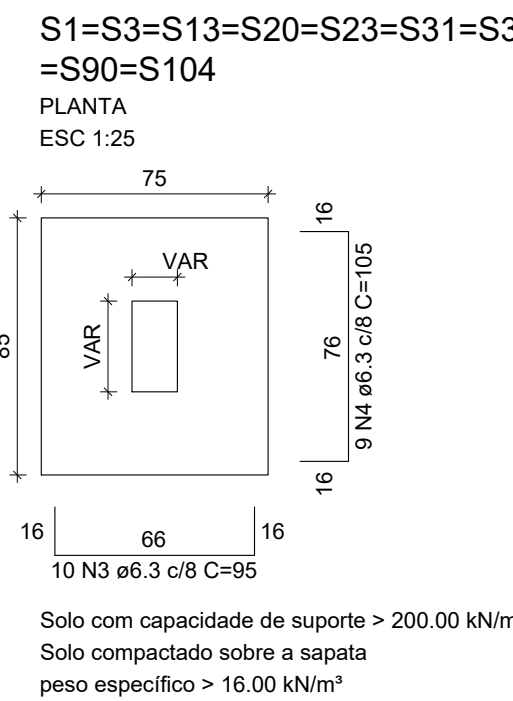
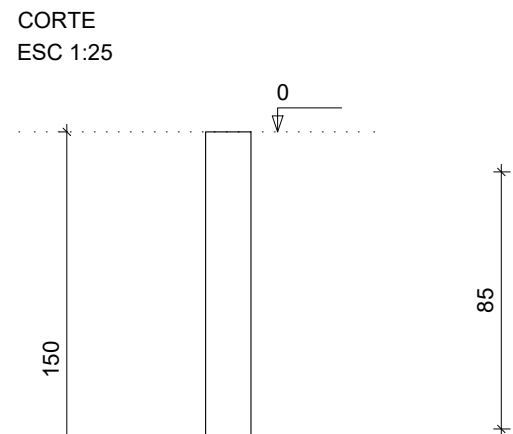
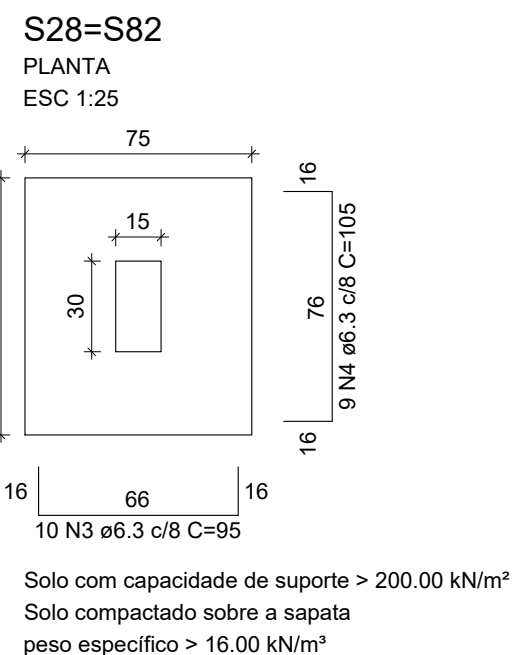
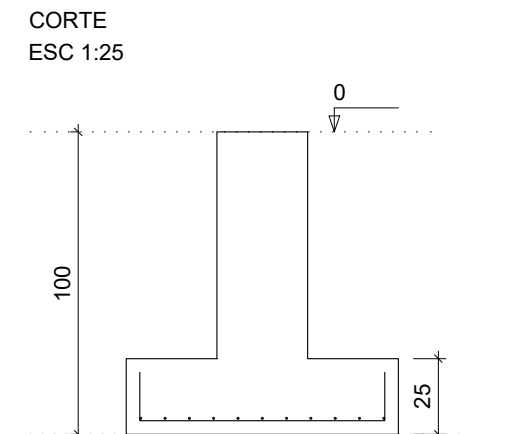
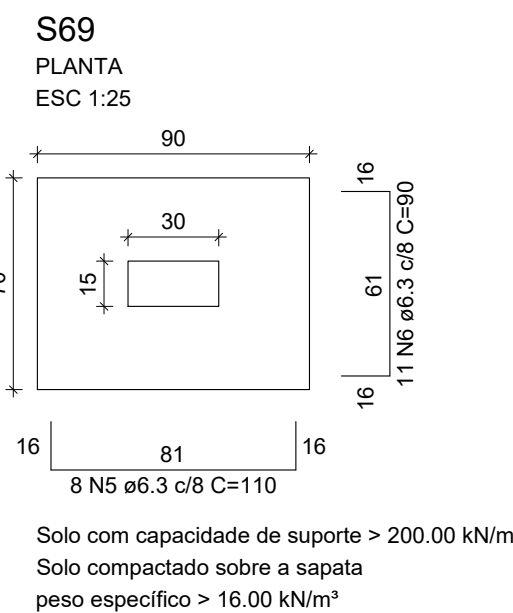
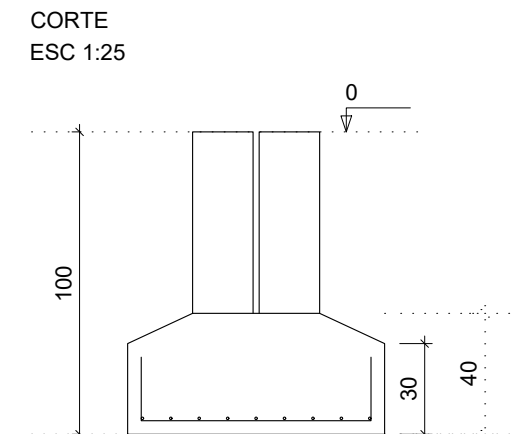
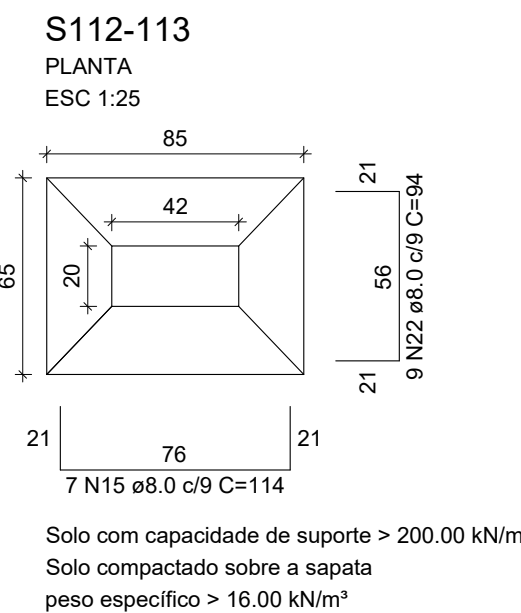
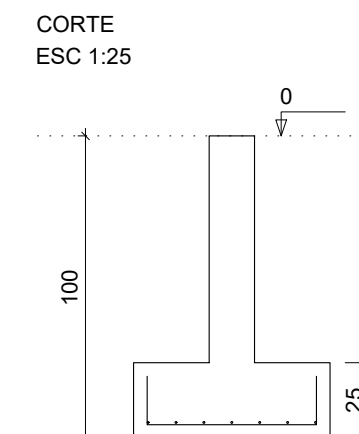
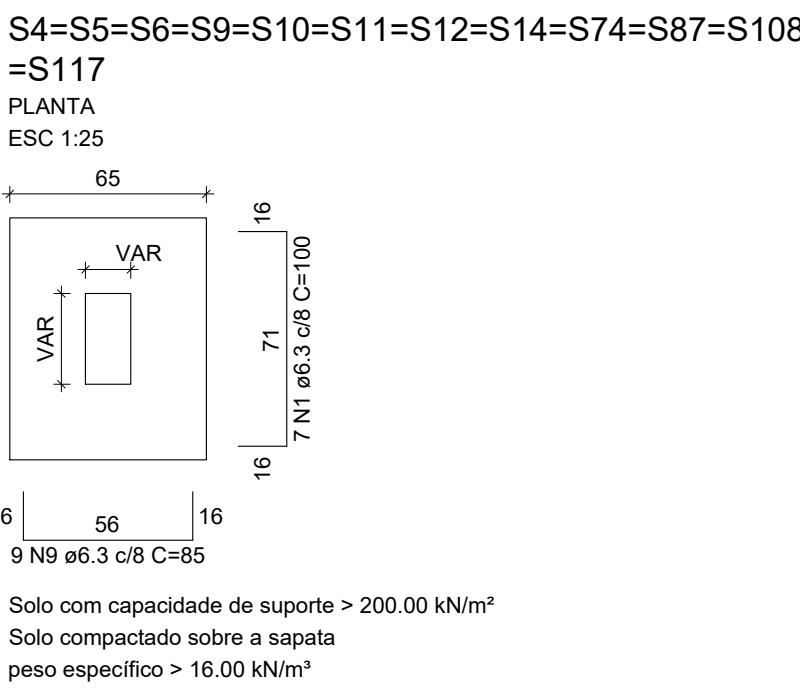
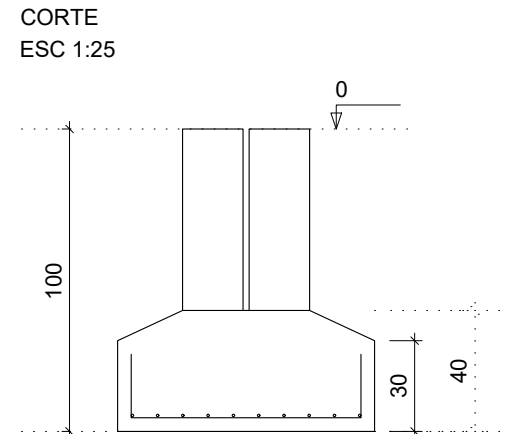
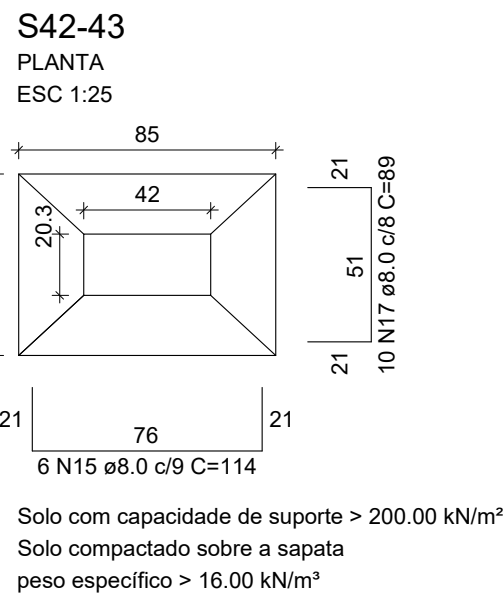
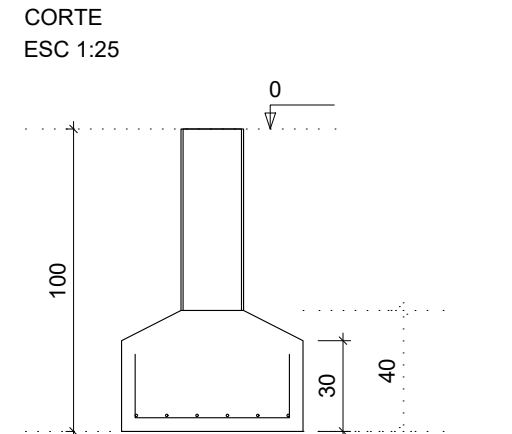
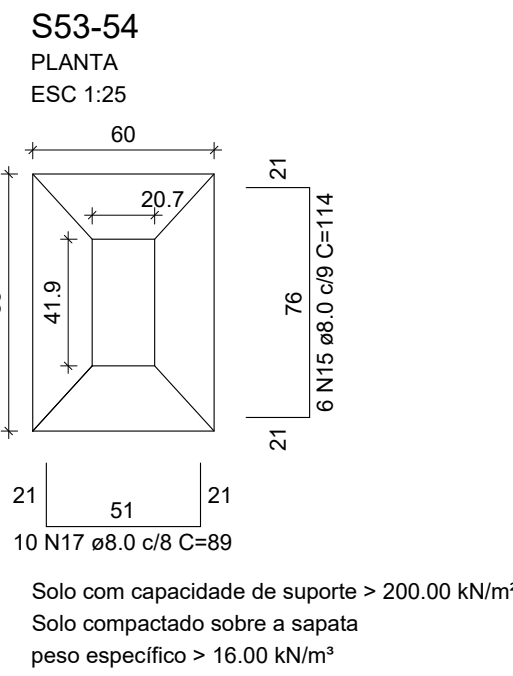
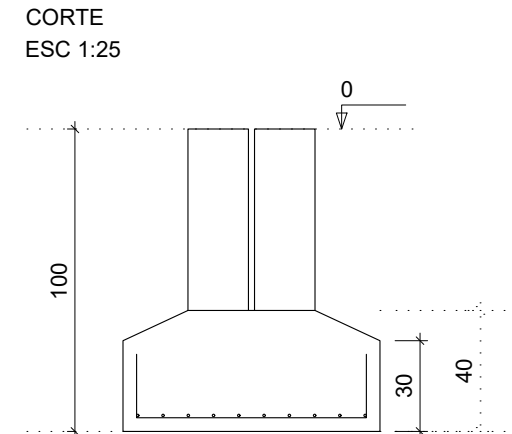
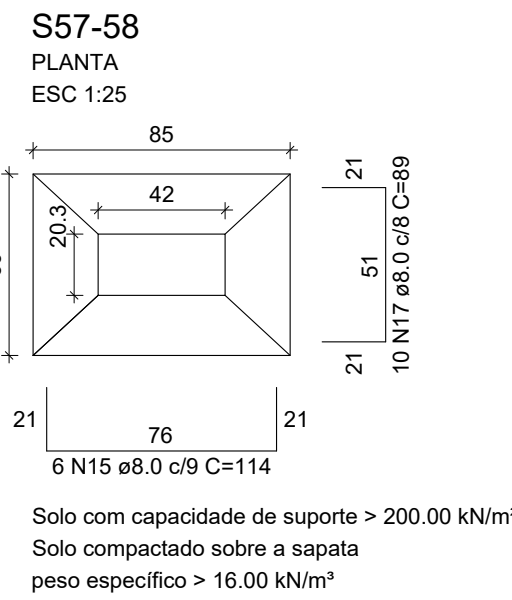
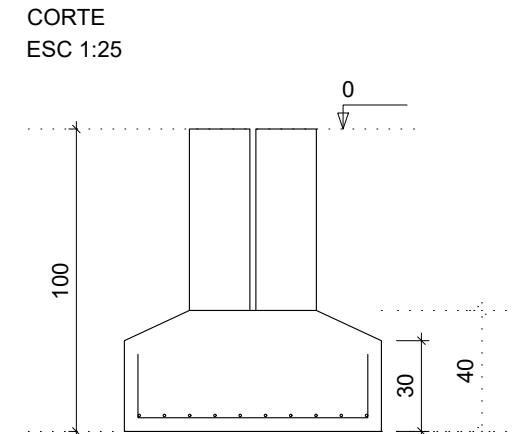
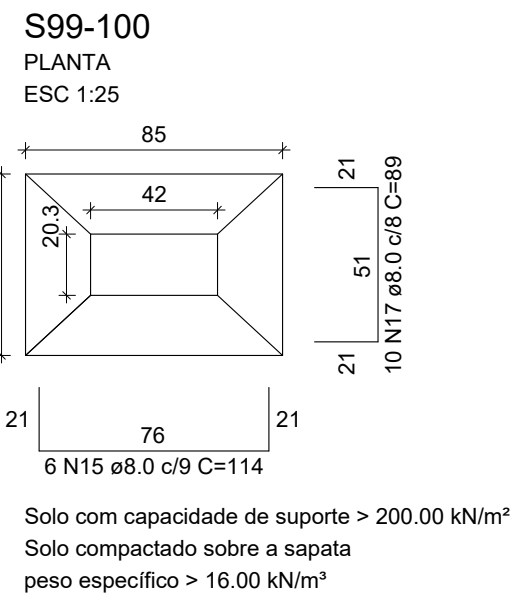
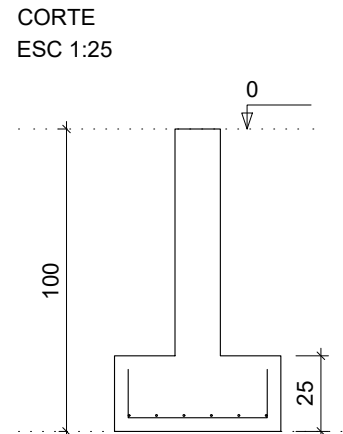
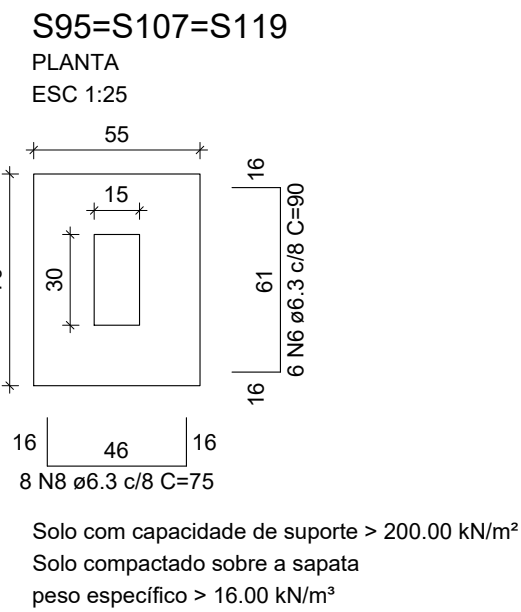
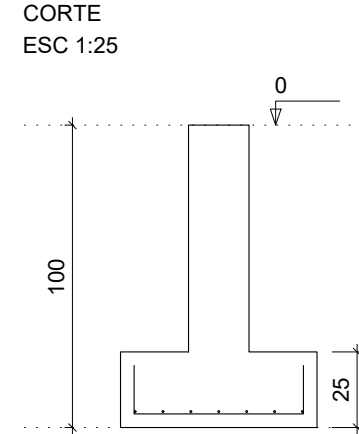
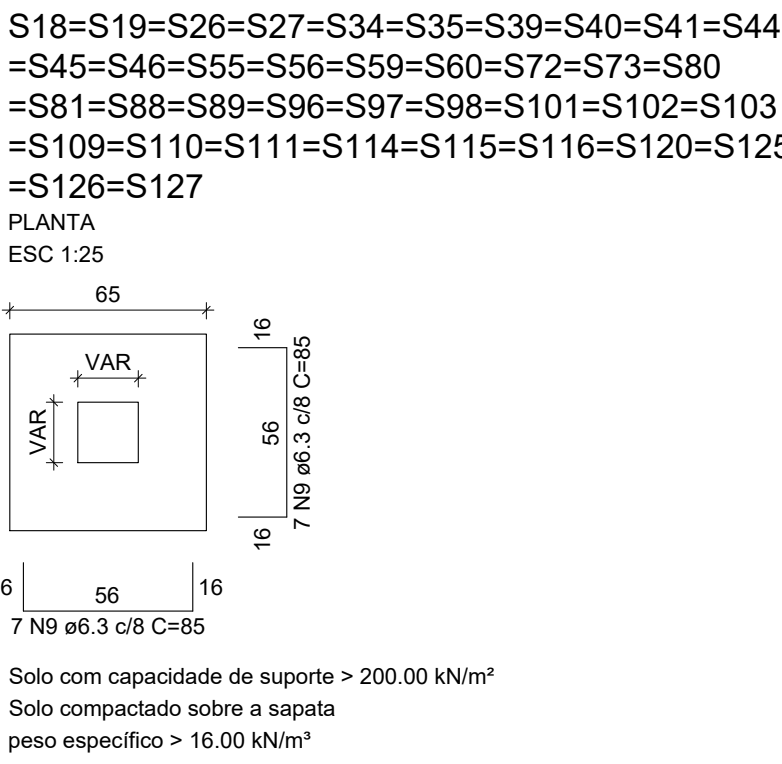


RELAÇÃO DO AÇO					
ACO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)
CA60	1	5,0	360	67	24120
	2	5,0	216	54	11616
	3	5,0	151	77	11607
	4	5,0	84	54	4536
	5	5,0	186	54	10044
	6	5,0	52	107	5486
	7	5,0	52	107	5486
	8	5,0	26	24	672
CASO	9	10,0	66	267	17622
	10	10,0	300	207	62100
	11	10,0	48	134	6432
	12	10,0	317	147	46599
	13	10,0	10	75	750
	14	10,0	6	84	504
	15	10,0	6	193	1158
	16	12,5	16	187	2672

RESUMO DO AÇO					
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	449.7	38	12 m	277.2
	12.5	41.8	4	12 m	40.2
CA60	5.0	714.7	-	rolo (170 kg)	110.2

Volume de concreto (C-25) = 4.20 m³
Área de forma = 78.65 m²





RELAÇÃO DO AÇO

20xS21	2xS28	S69
S7-8	8xS94	12xS104
3xS107	12xS108	38xS109
2xS122	S124	S42-43
S47-48	S49-50	S51-52
S53-54	S57-58	S61-62
S63-64	S65-66	S67-68
S99-100	S112-113	

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CASO	1	6.3	304	100	30400
	2	6.3	180	115	20700
	3	6.3	140	95	13300
	4	6.3	138	105	14490
	5	6.3	104	110	11440
	6	6.3	29	90	2610
	7	6.3	98	125	12250
	8	6.3	24	75	1800
	9	6.3	640	85	54400
	10	6.3	38	105	3990
	11	6.3	22	120	2640
	12	6.3	54	100	5400
	13	6.3	11	110	1210
	14	6.3	11	95	1045
	15	8.0	47	114	5358
	16	8.0	16	109	2071
	17	8.0	40	89	3560
	18	8.0	12	114	1368
	19	8.0	9	129	1161
	20	8.0	11	109	1199
	21	8.0	9	119	1071
	22	8.0	9	94	846

RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT (kg)	PESO + 0% (kg)
CASO	6.3	1756.8	147	12 m	429.9
	8.0	188.3	14	12 m	65.6

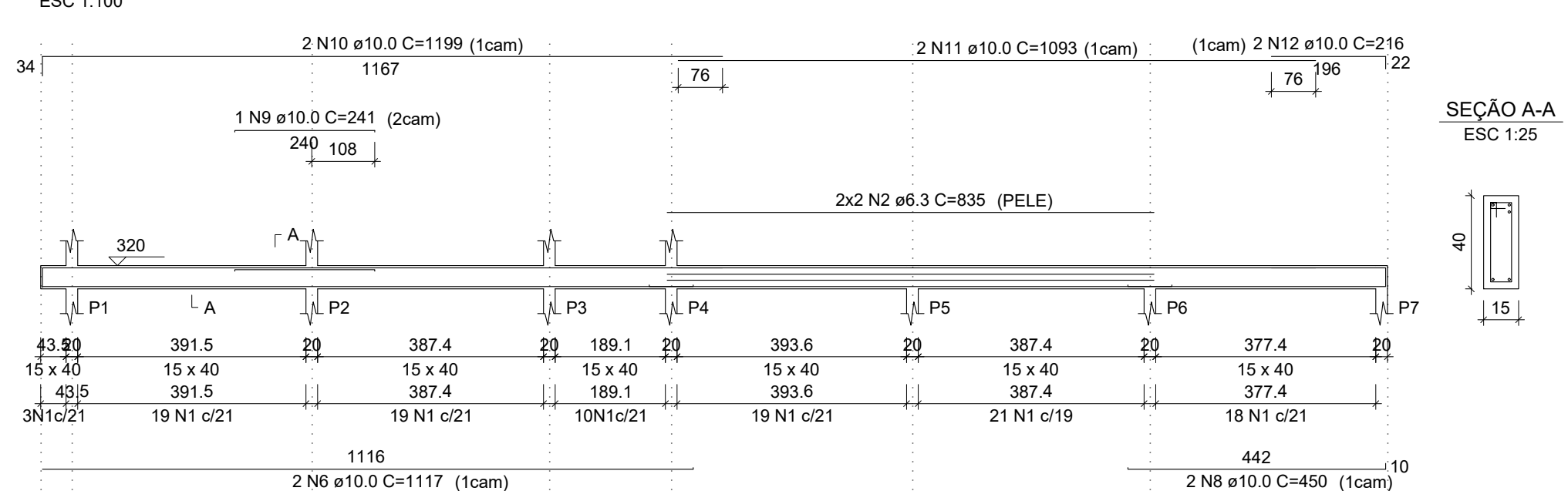
PESO TOTAL (kg)

CASO 495.5

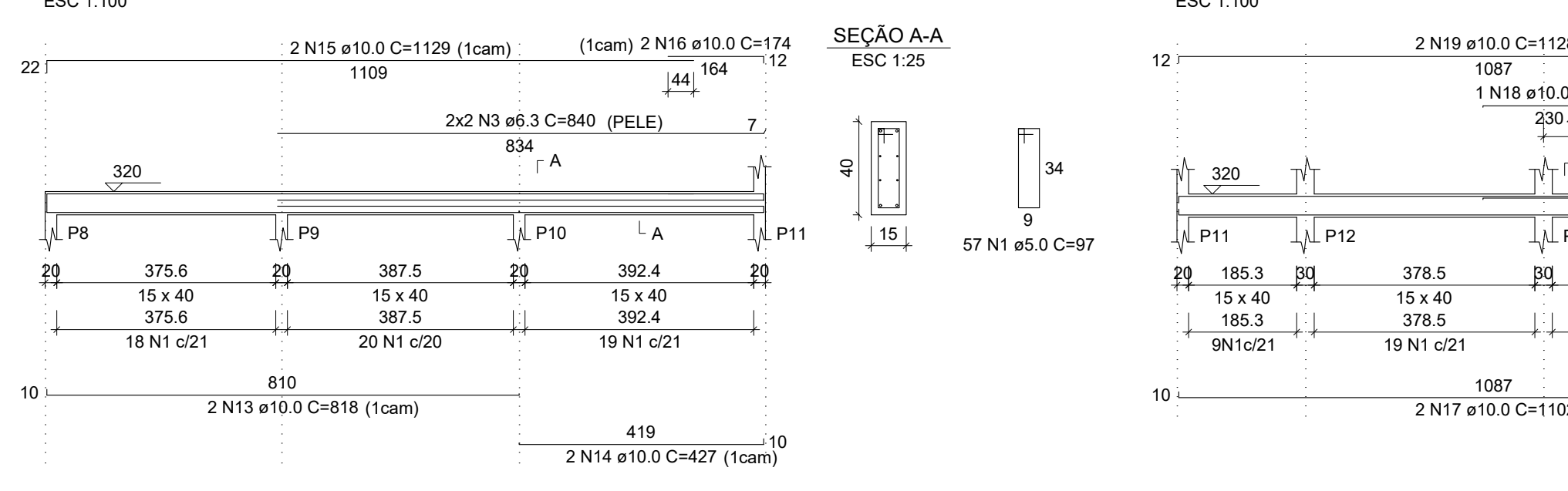
Volume de concreto (C-25) = 17.53 m³

Área de forma = 86.42 m²

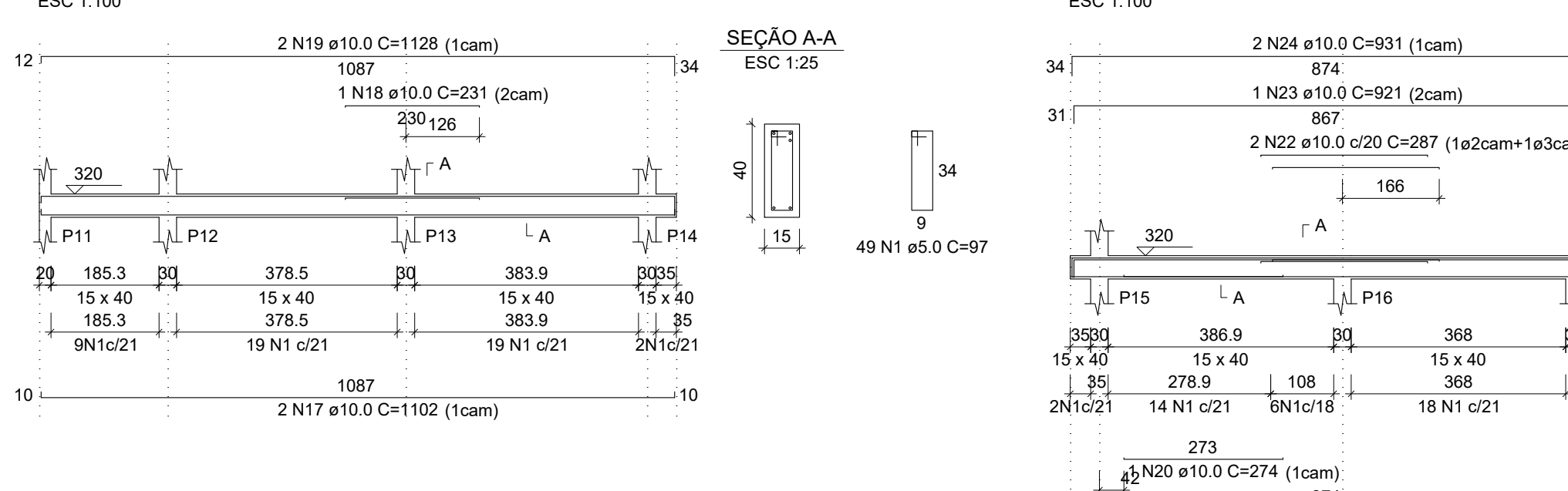
V1 (15 x 40)



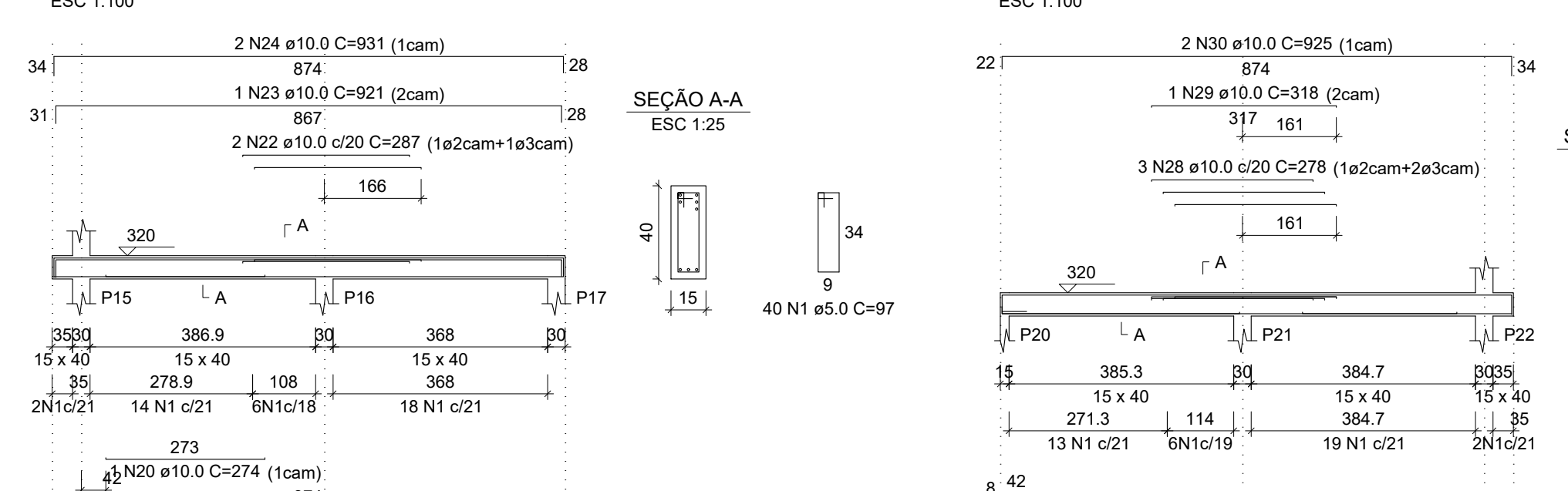
V2 (15 x 40)



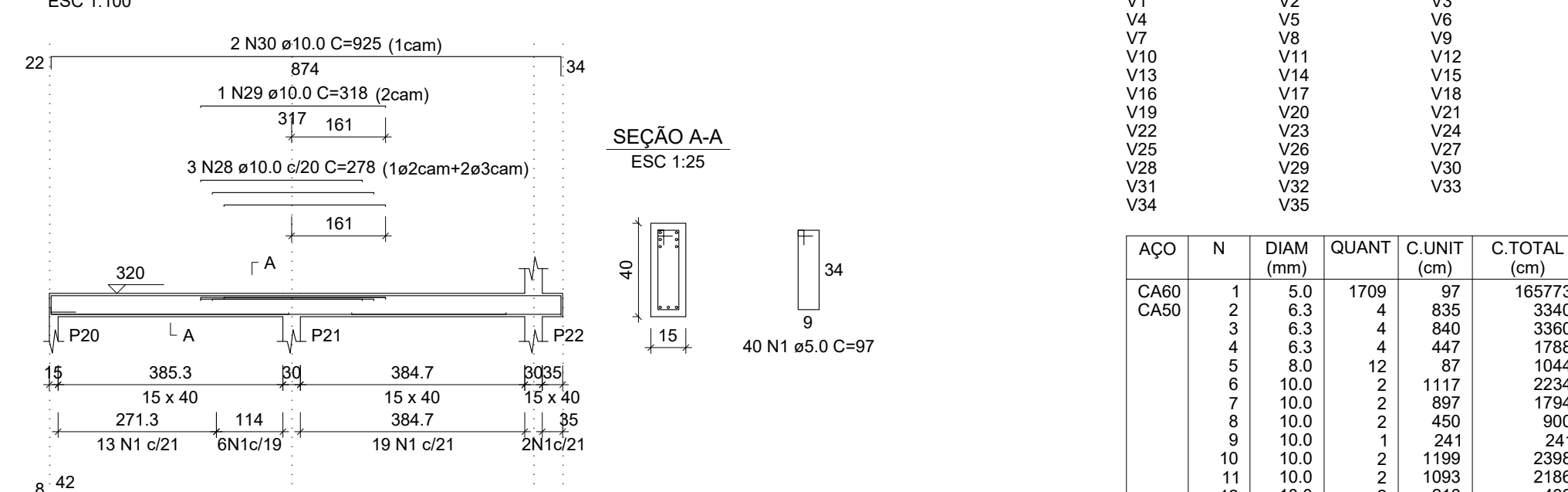
V3 (15 x 40)



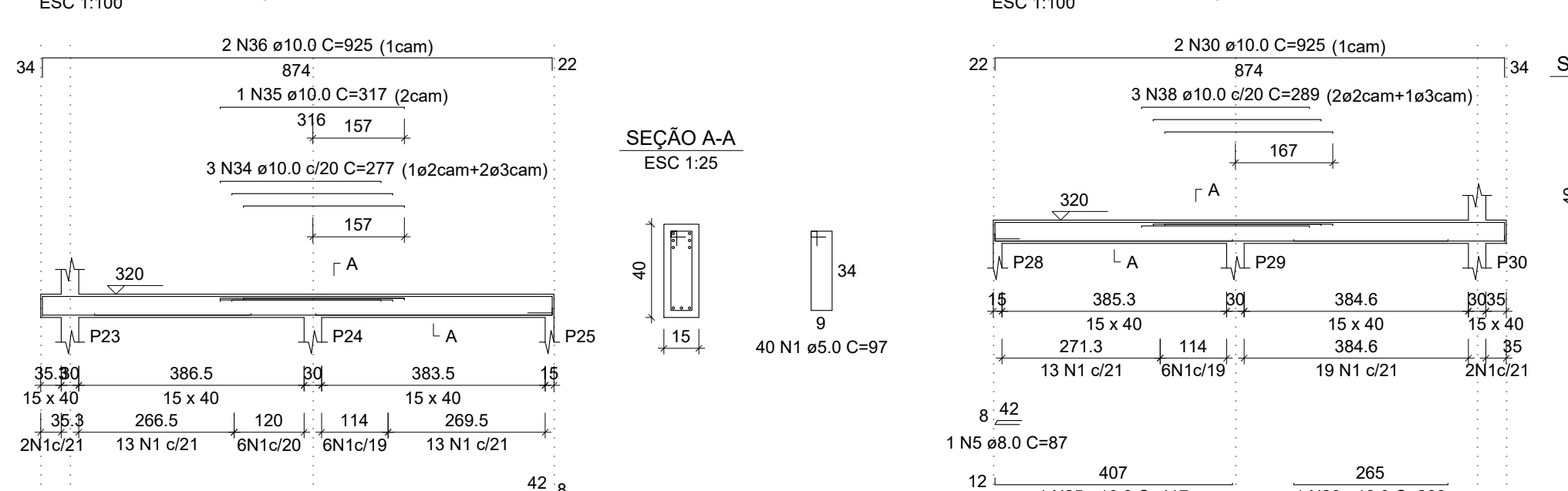
V4 (15 x 40)



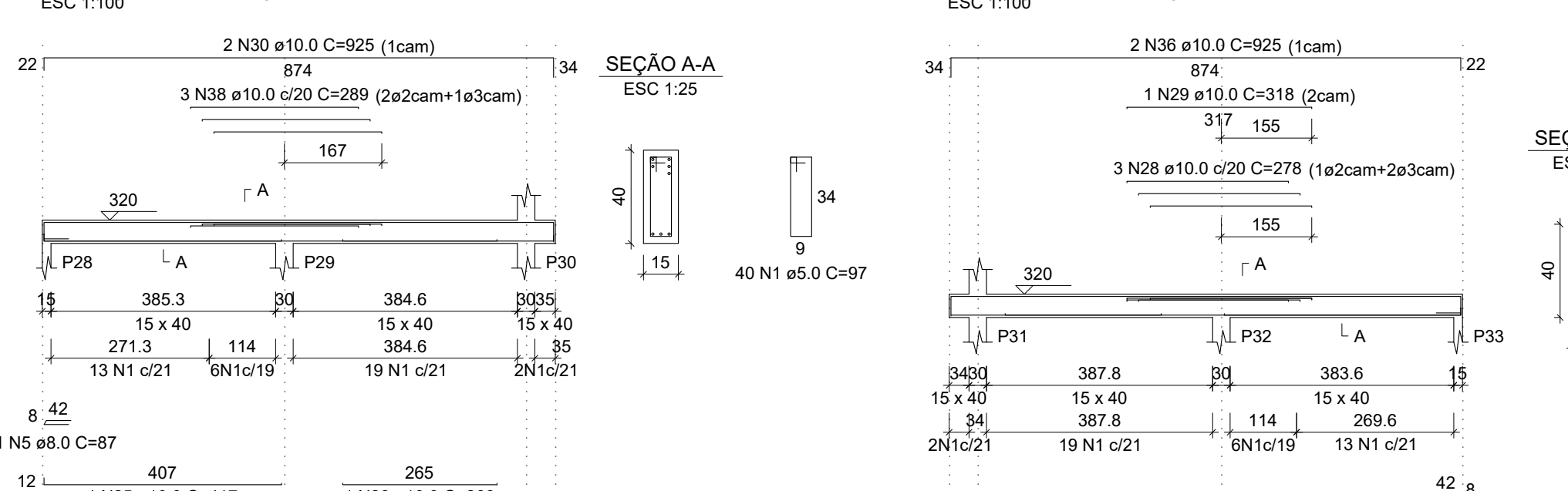
V5 (15 x 40)



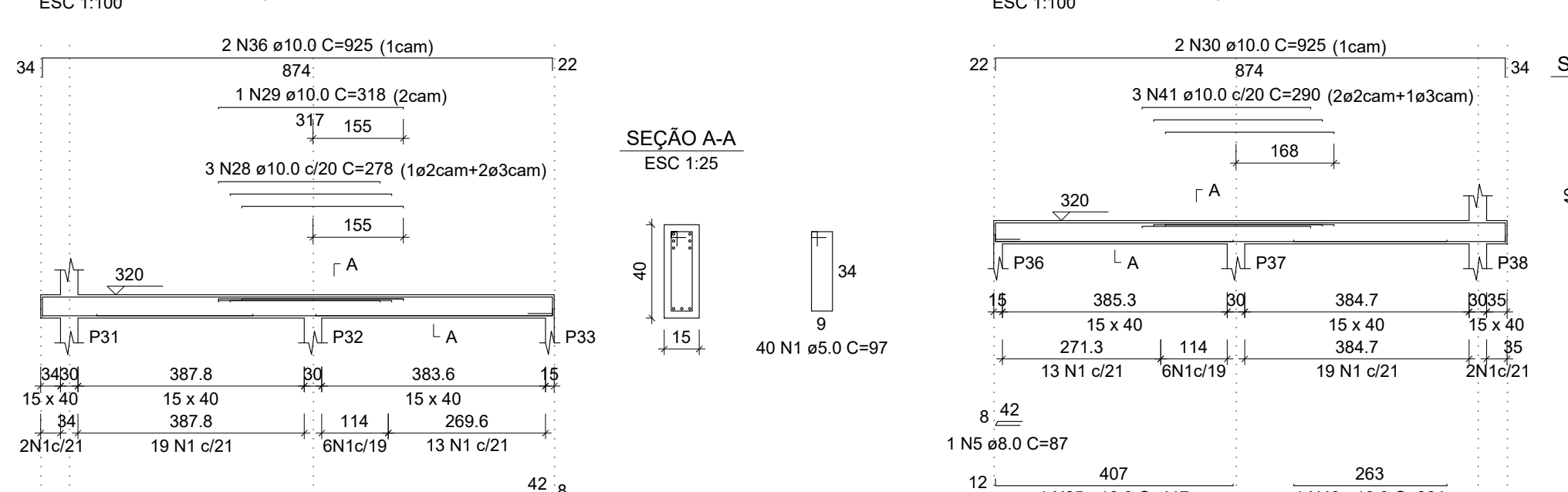
V6 (15 x 40)



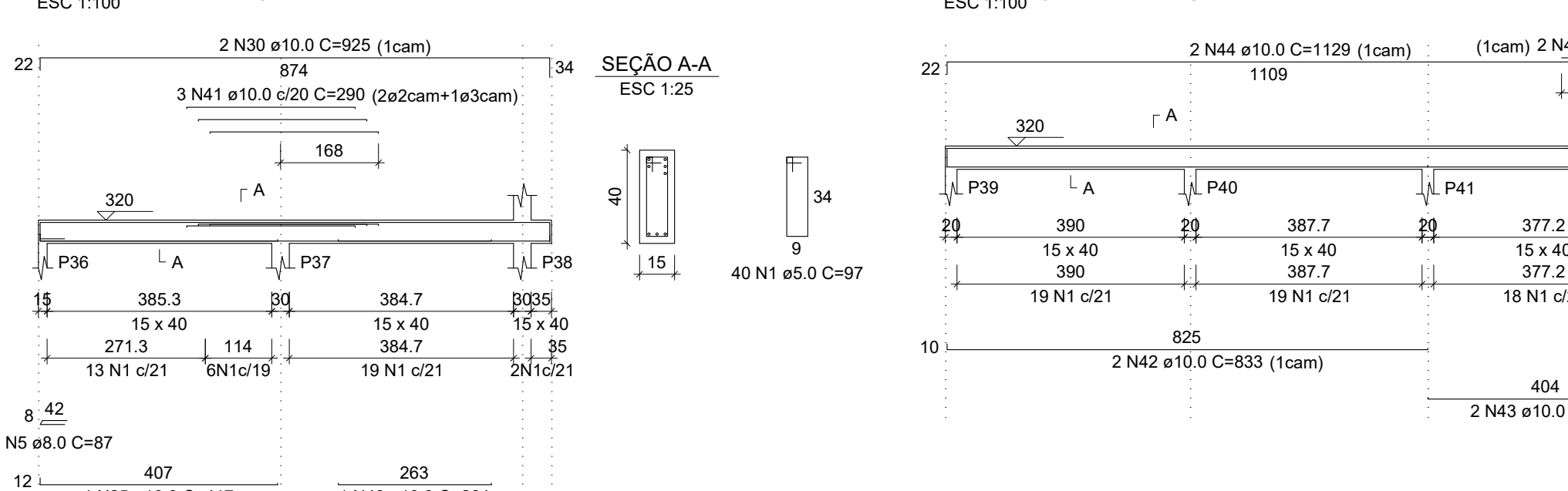
V7 (15 x 40)



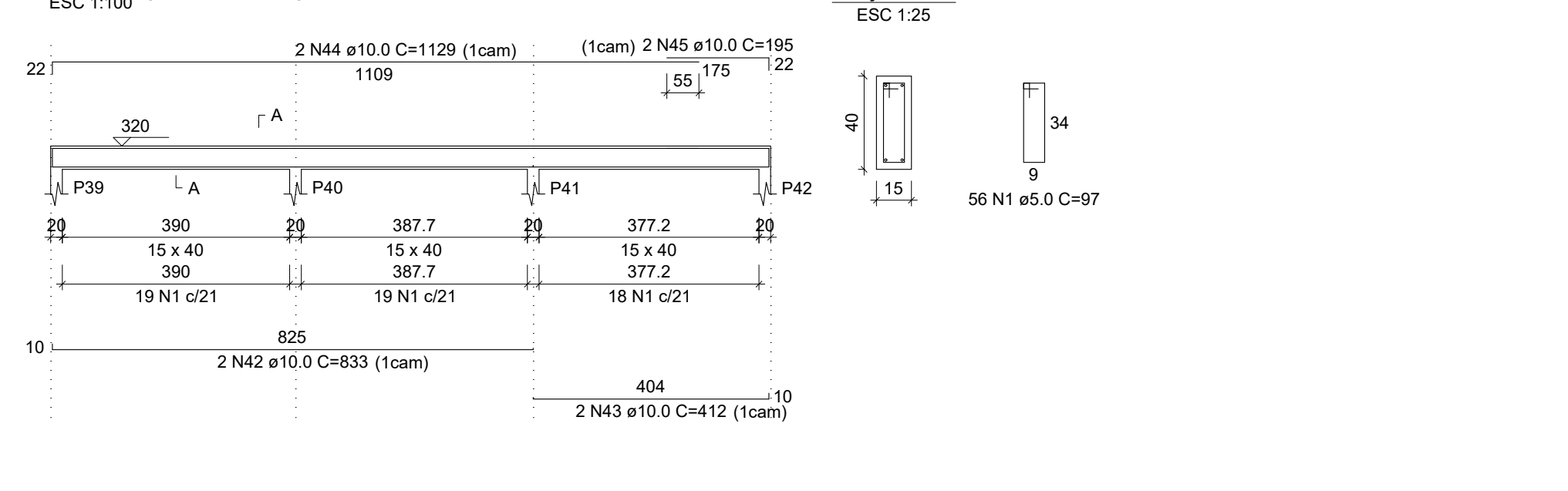
V8 (15 x 40)



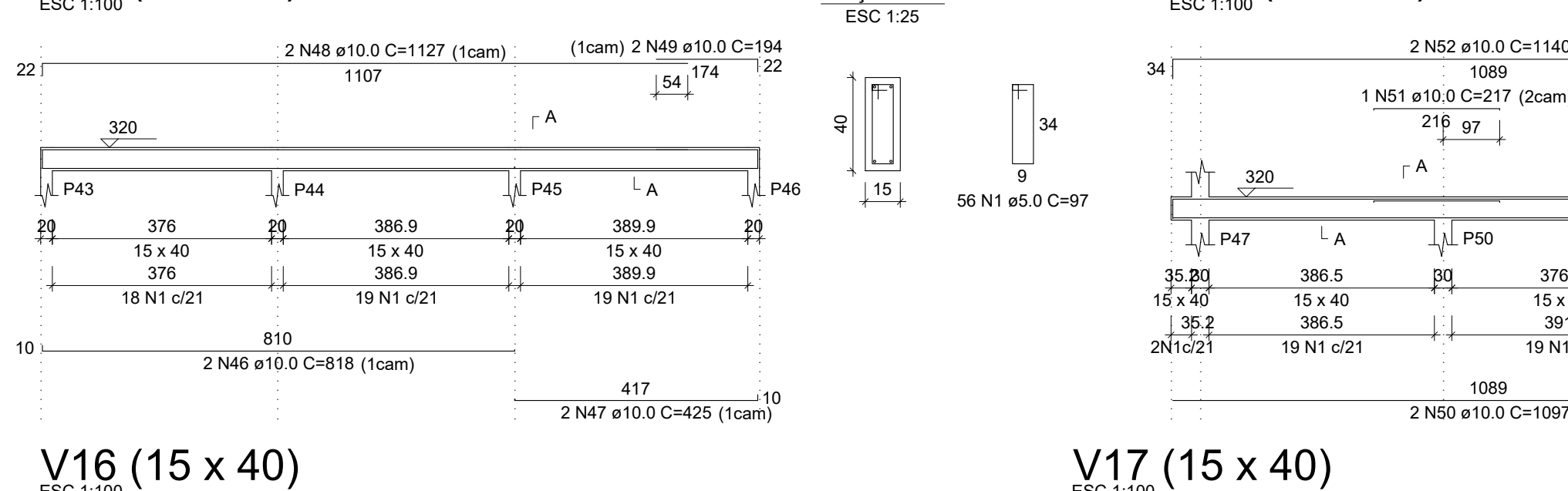
V9 (15 x 40)



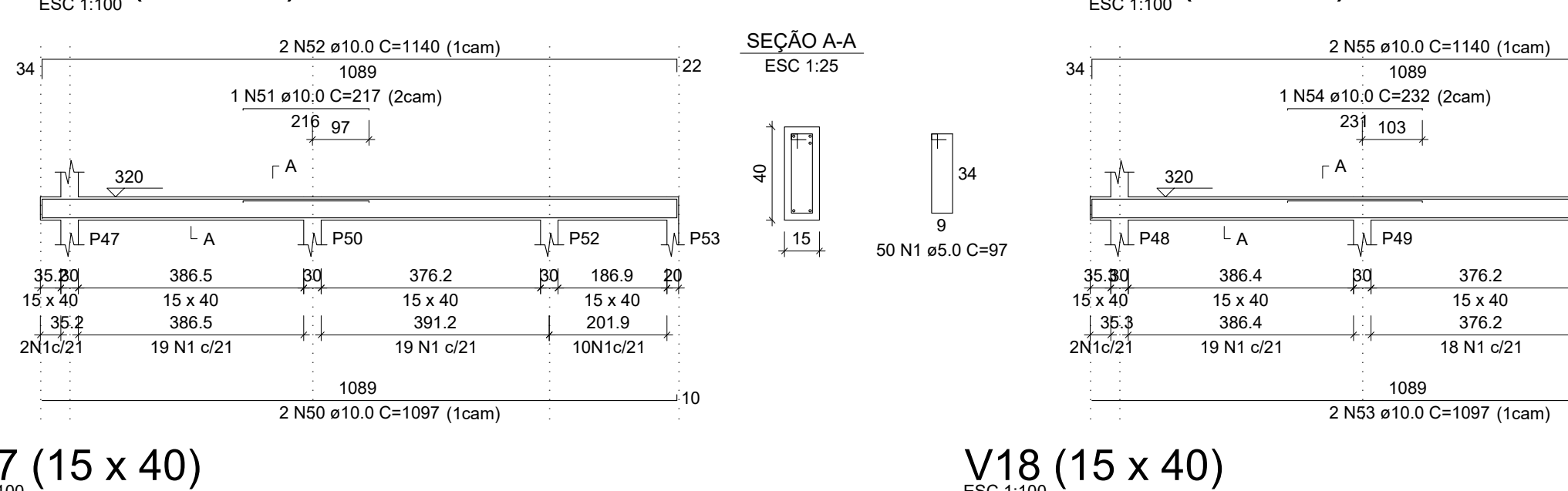
V10 (15 x 40)



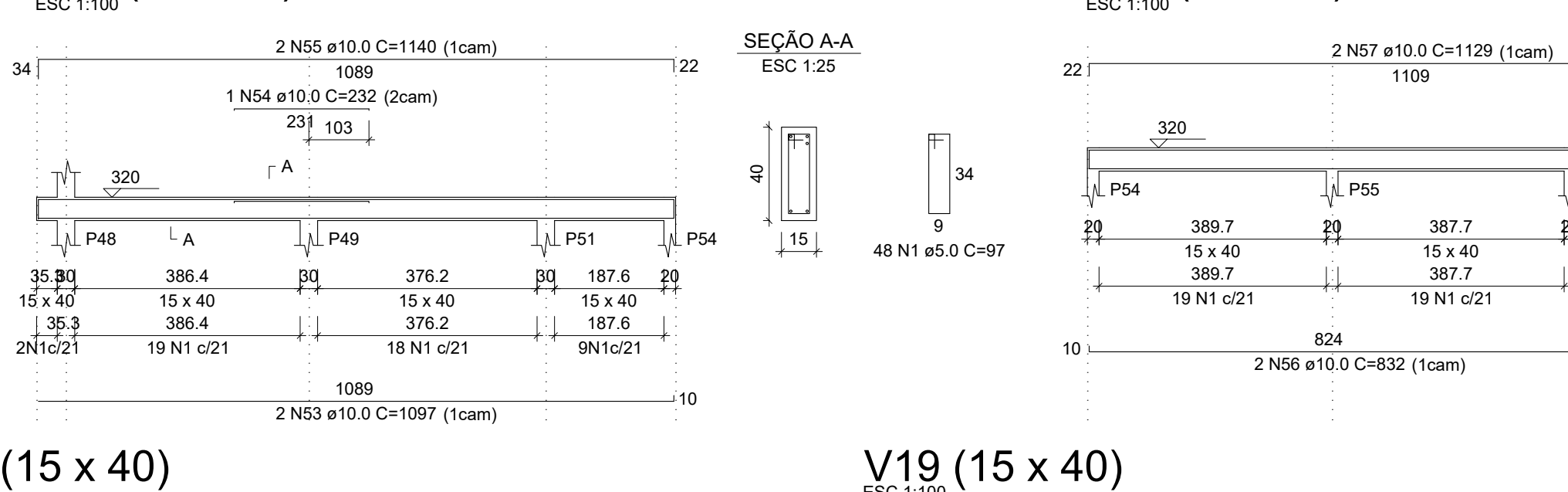
V11 (15 x 40)



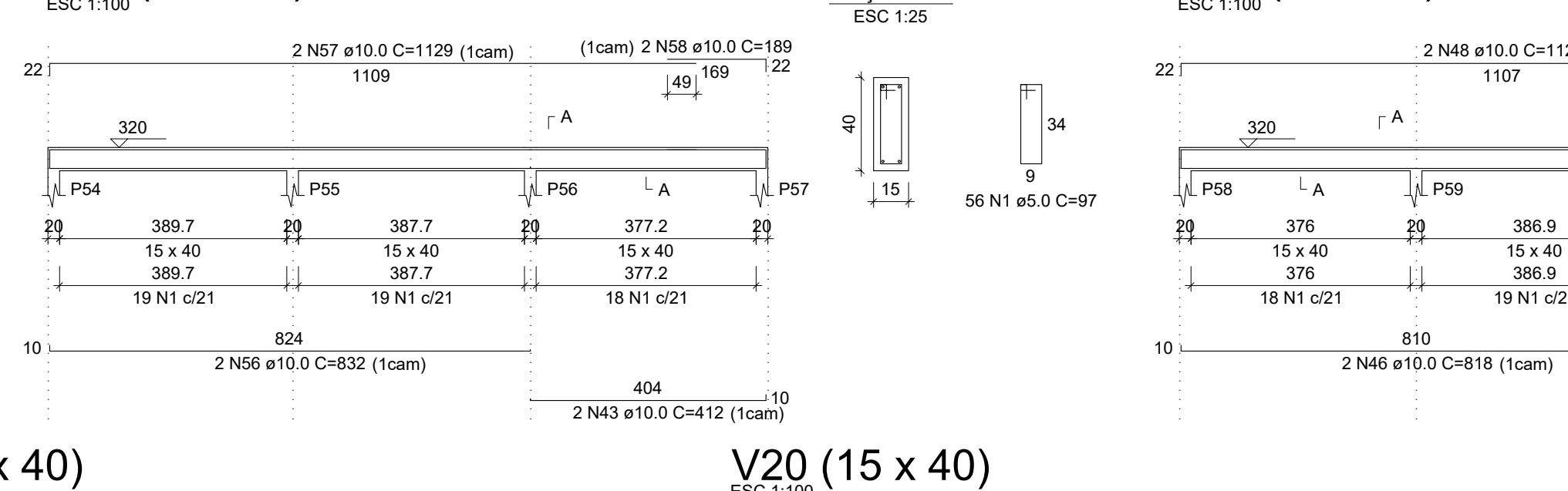
V12 (15 x 40)



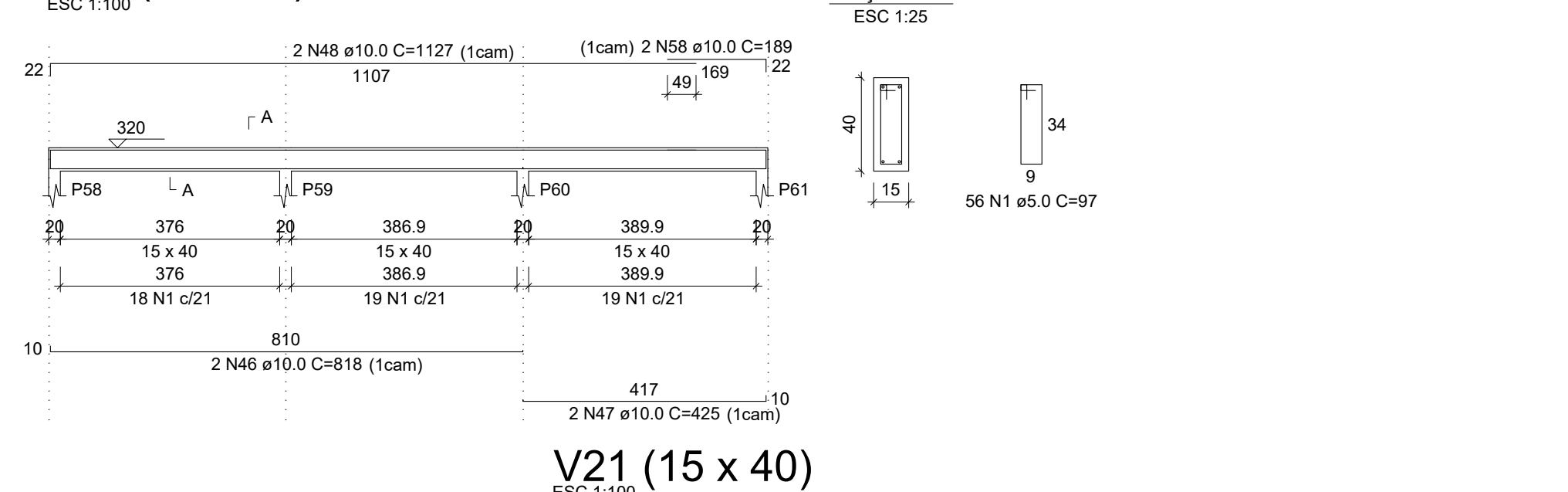
V13 (15 x 40)



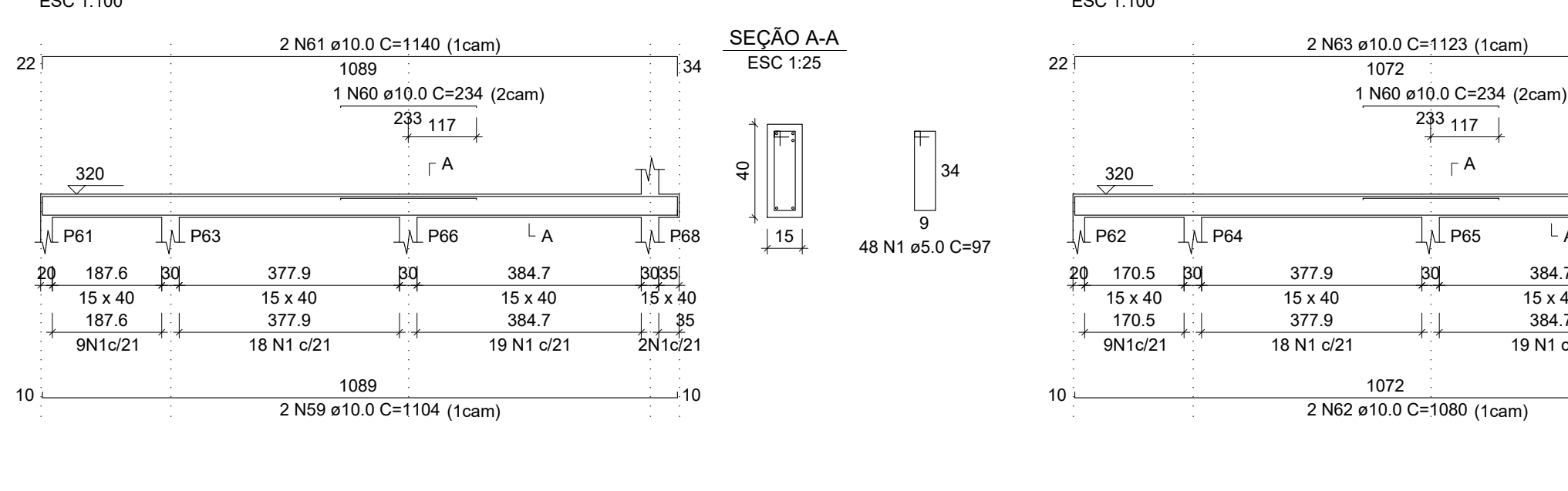
V14 (15 x 40)



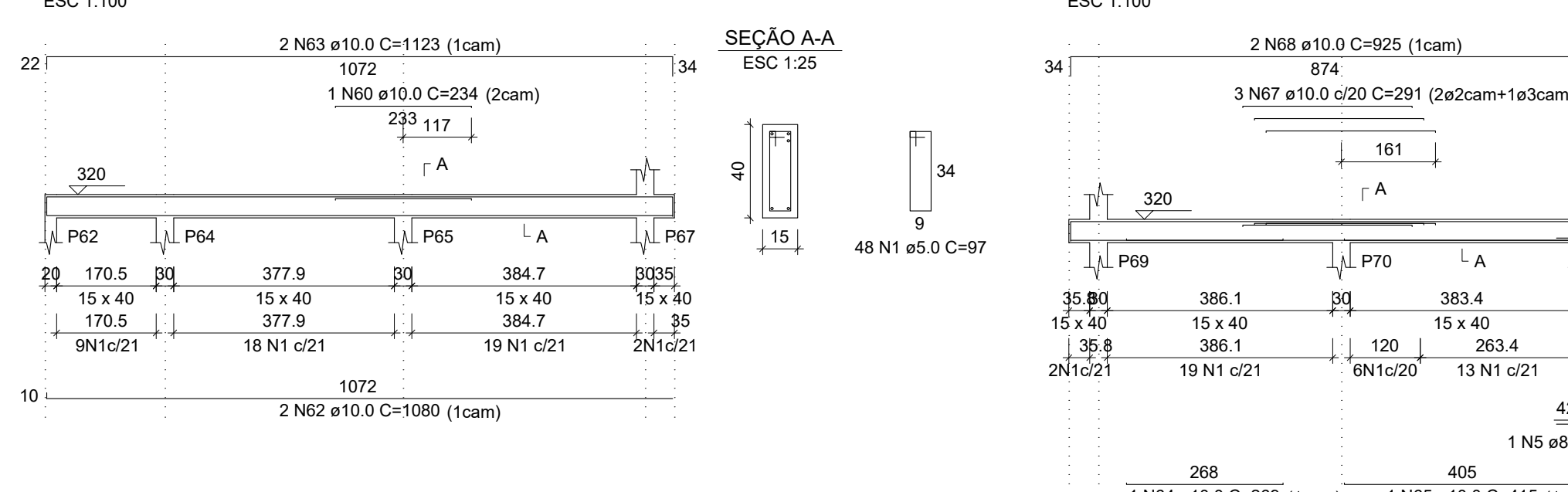
V15 (15 x 40)



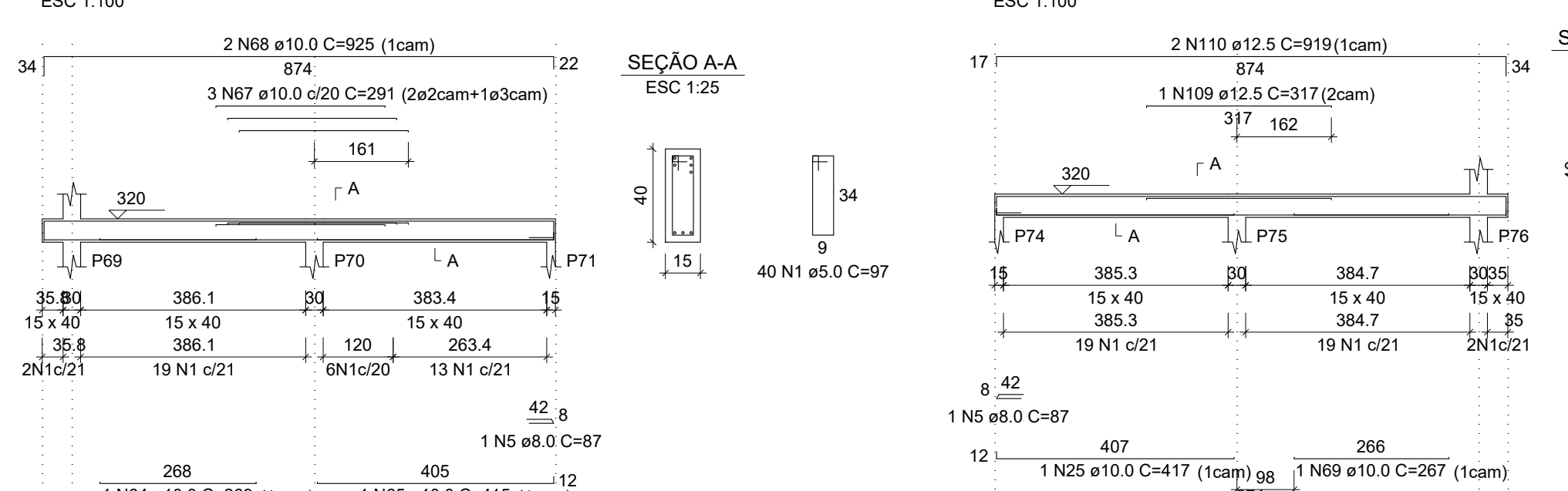
V16 (15 x 40)



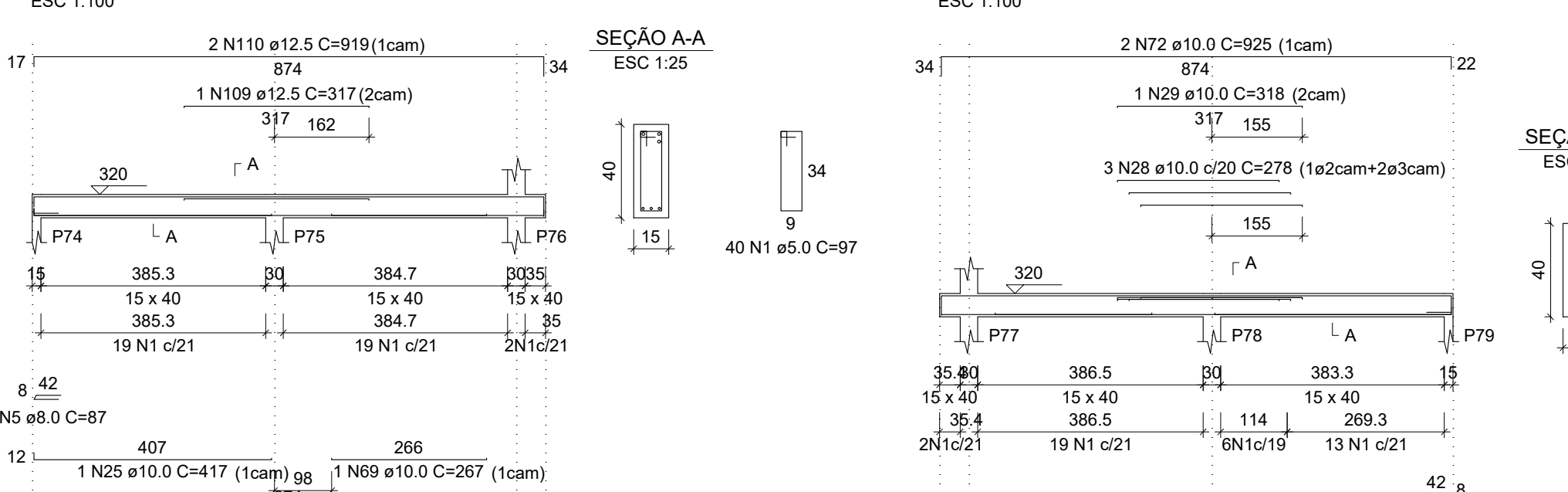
V17 (15 x 40)



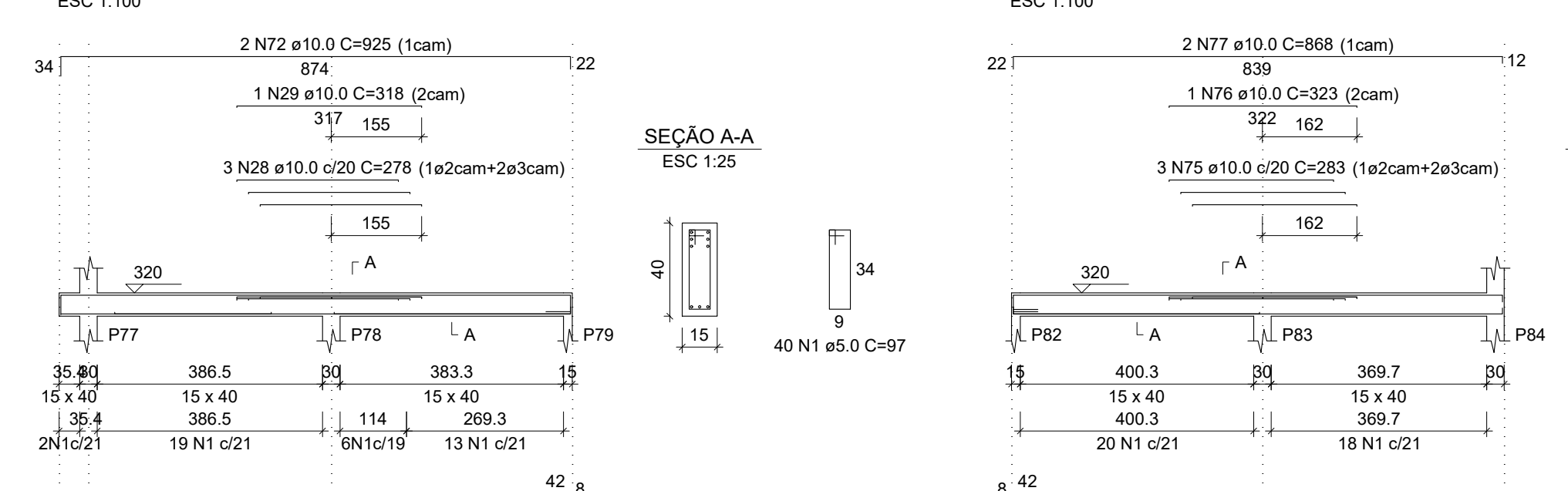
V18 (15 x 40)



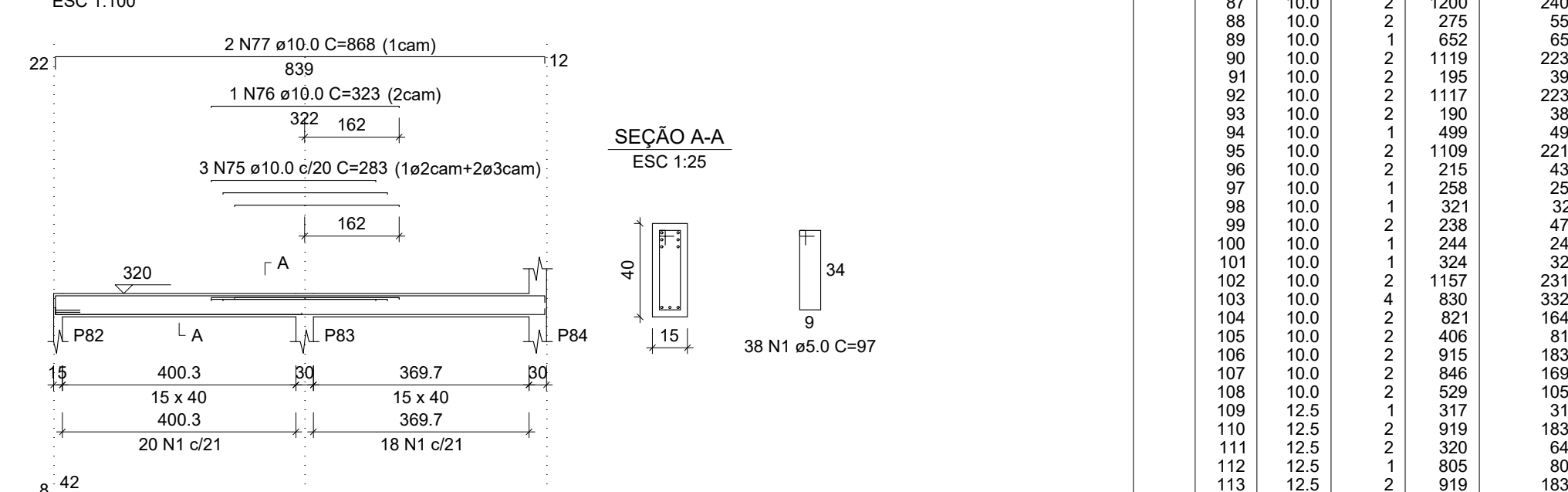
V19 (15 x 40)



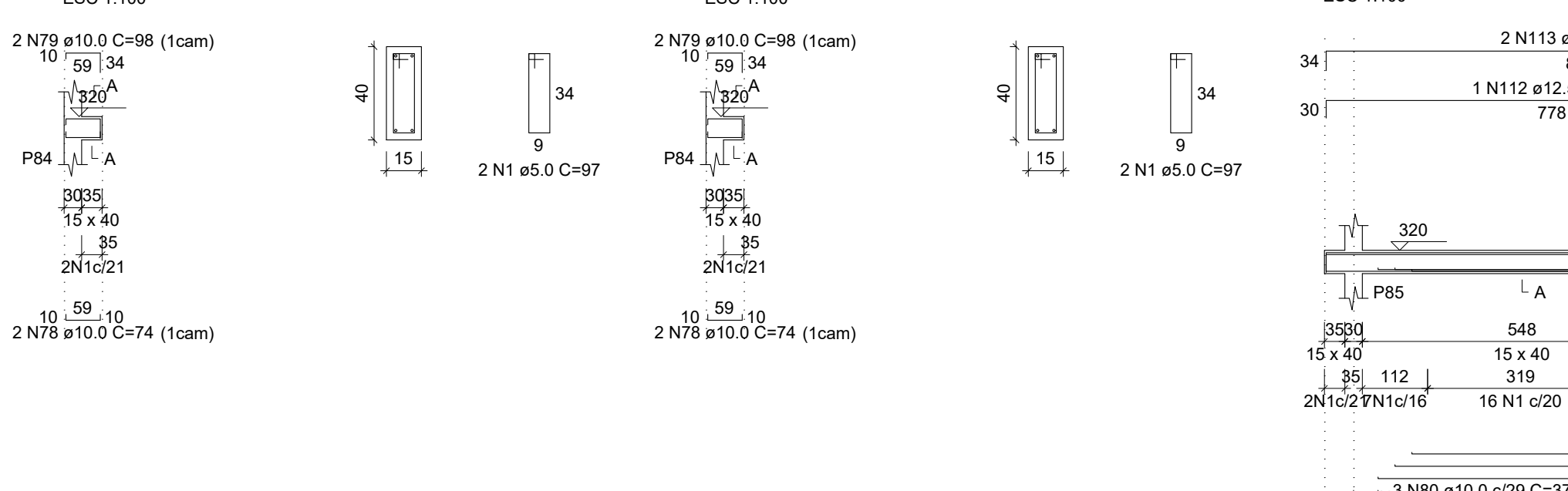
V20 (15 x 40)



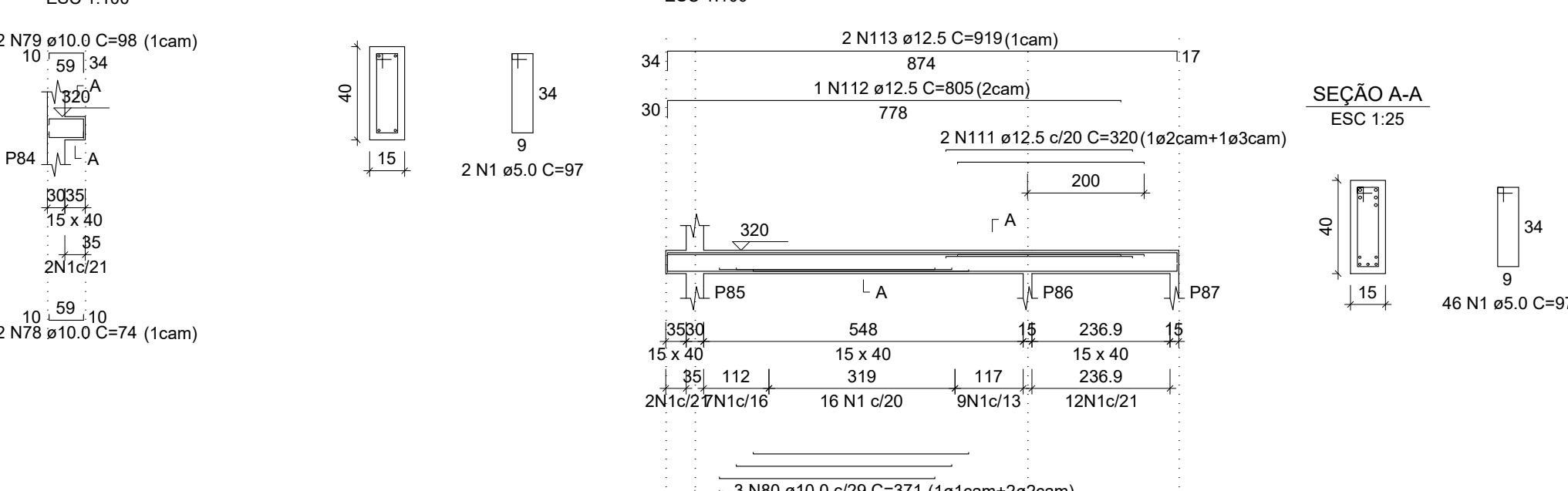
V21 (15 x 40)



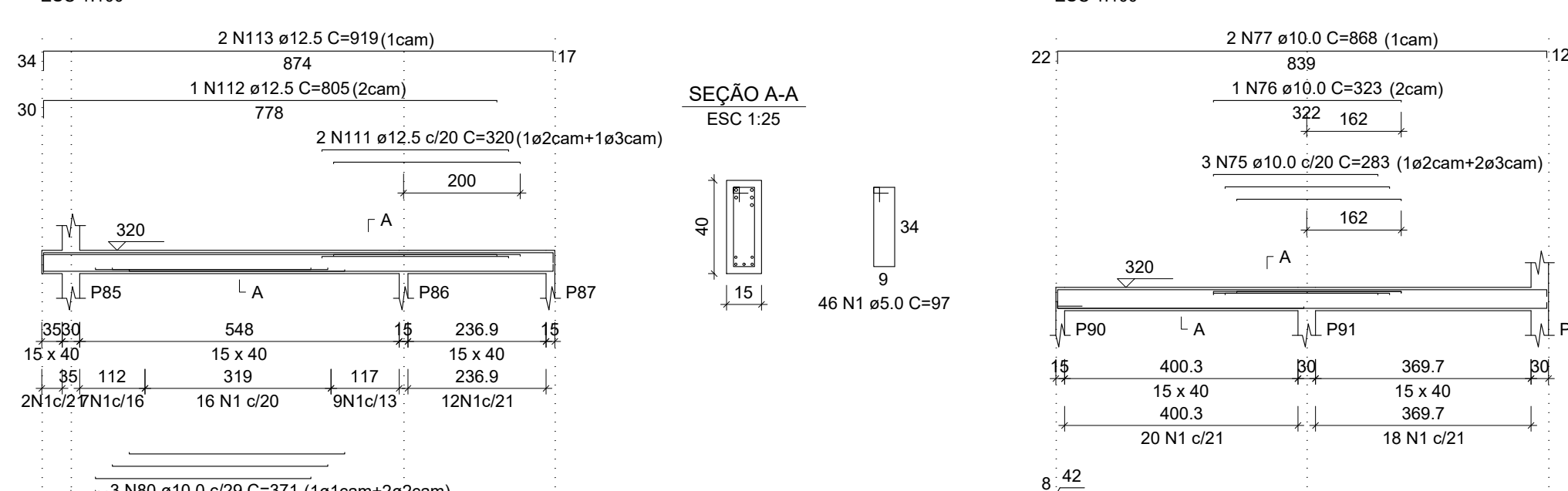
V22 (15 x 40)



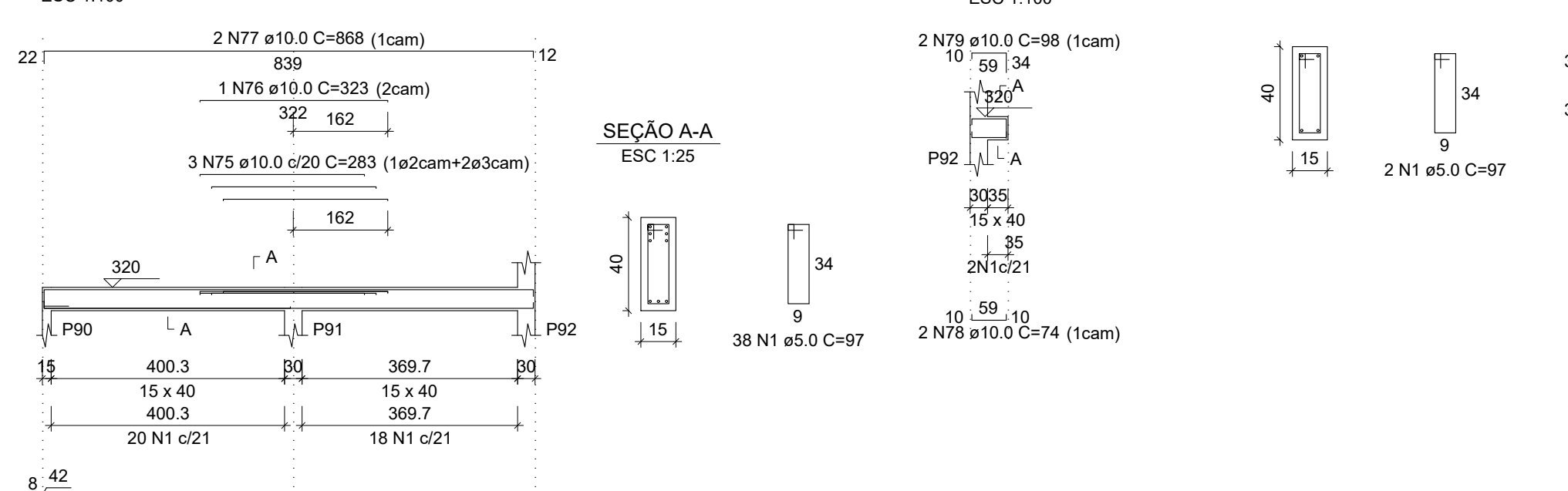
V23 (15 x 40)



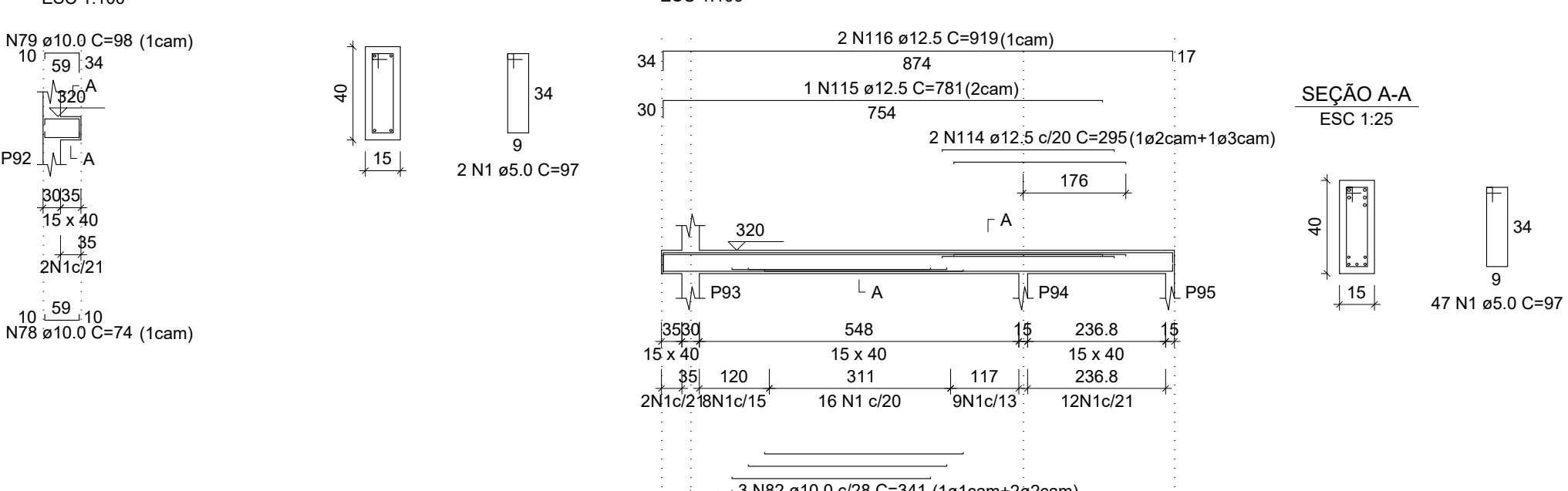
V24 (15 x 40)



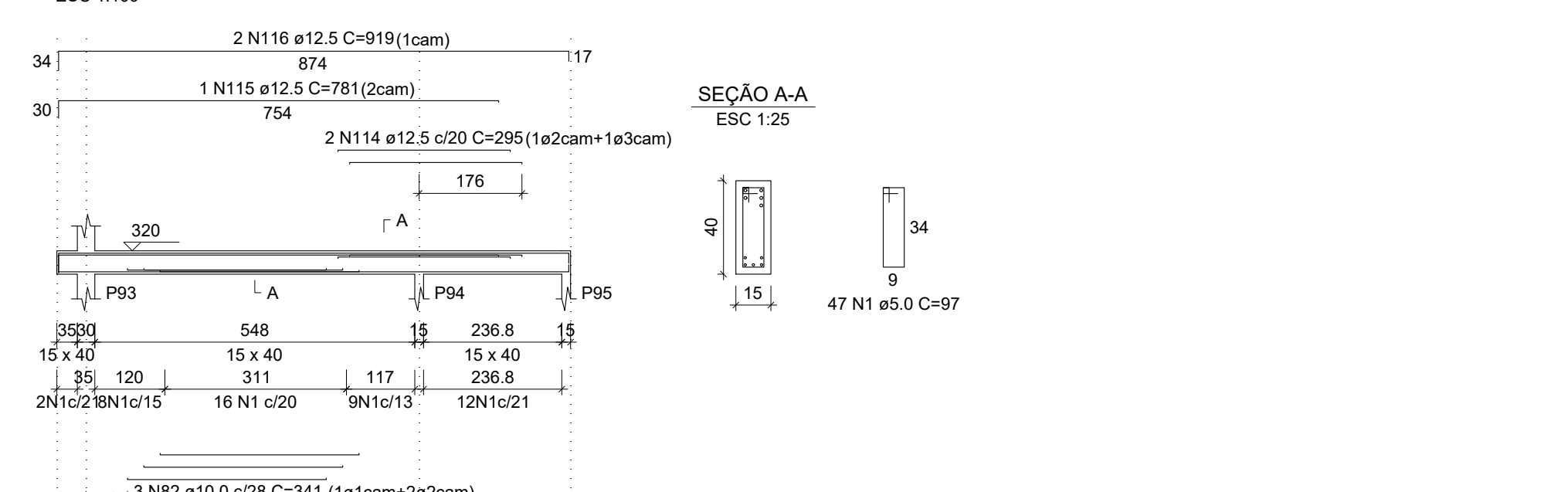
V25 (15 x 40)



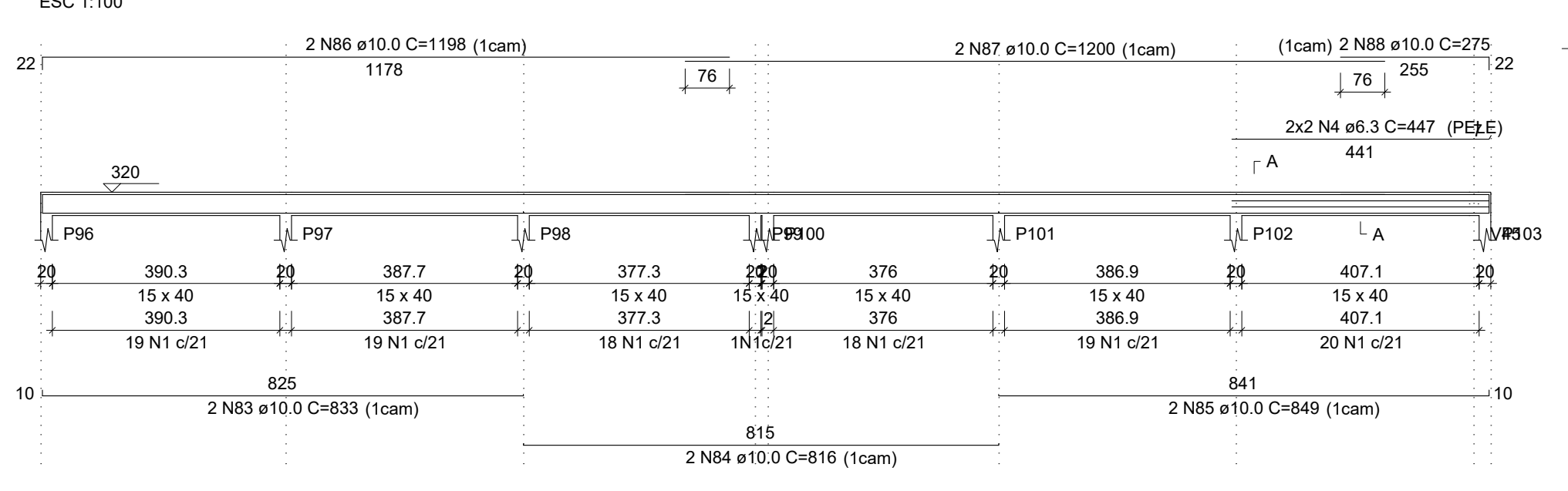
V26 (15 x 40)



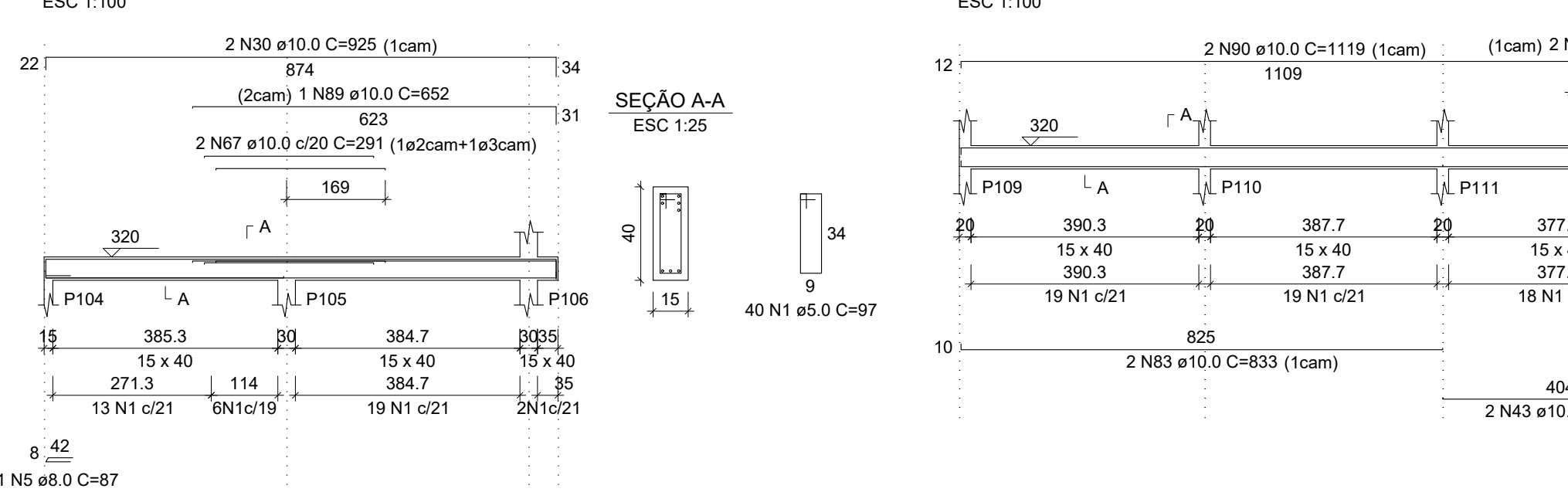
V27 (15 x 40)



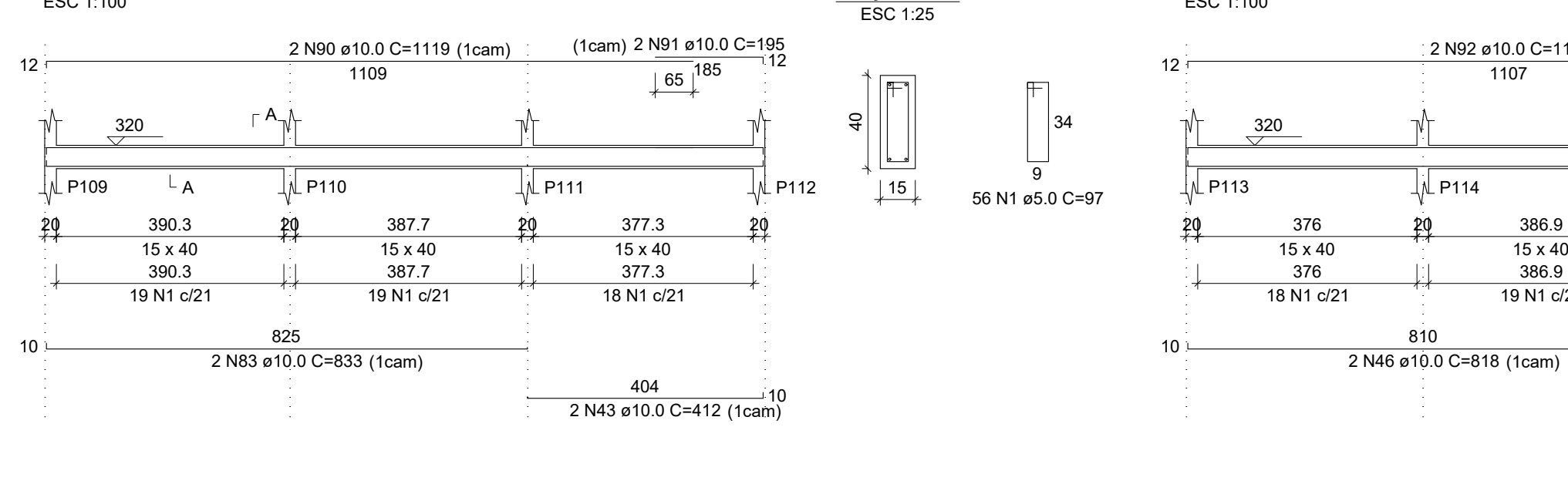
V28 (15 x 40)



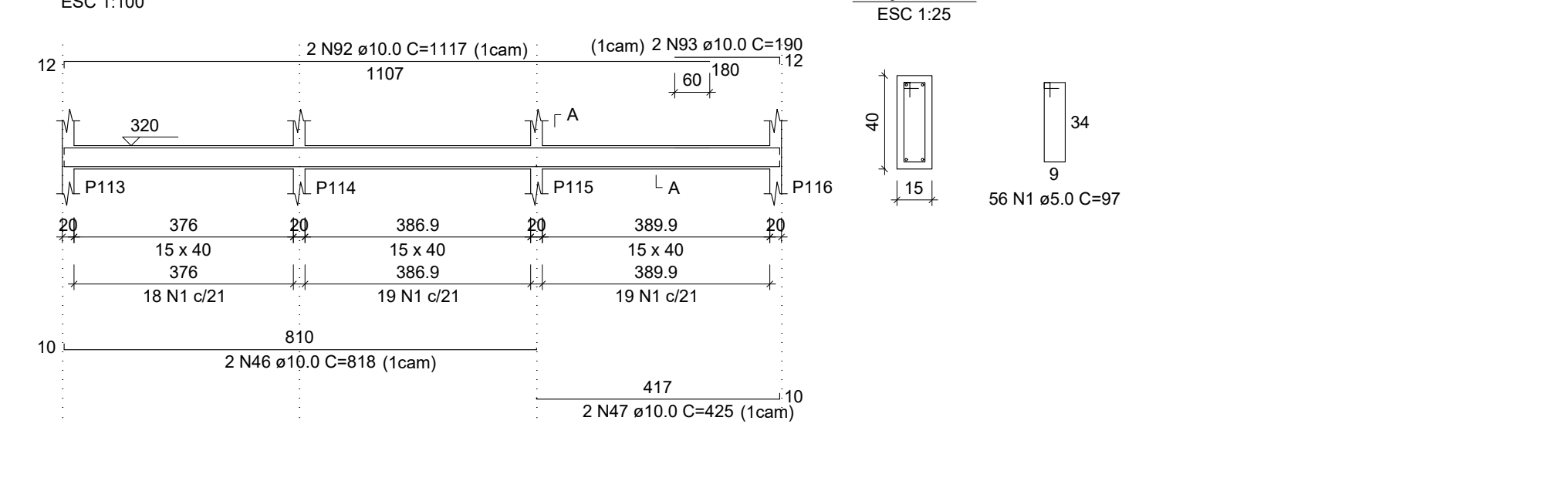
V29 (15 x 40)



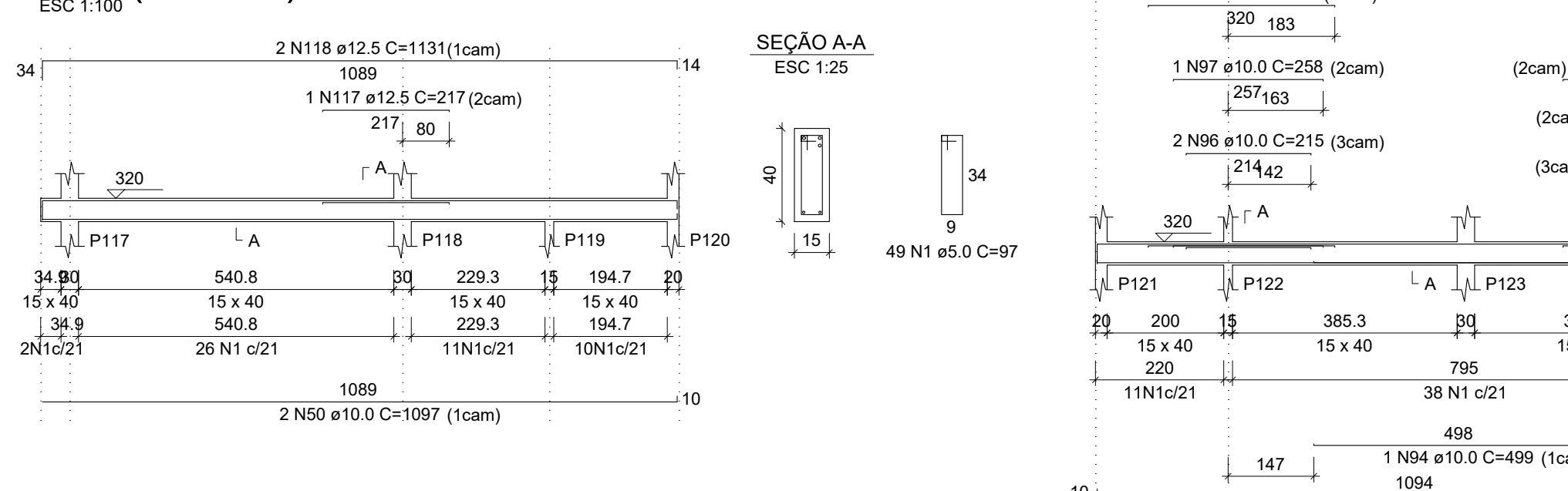
V30 (15 x 40)



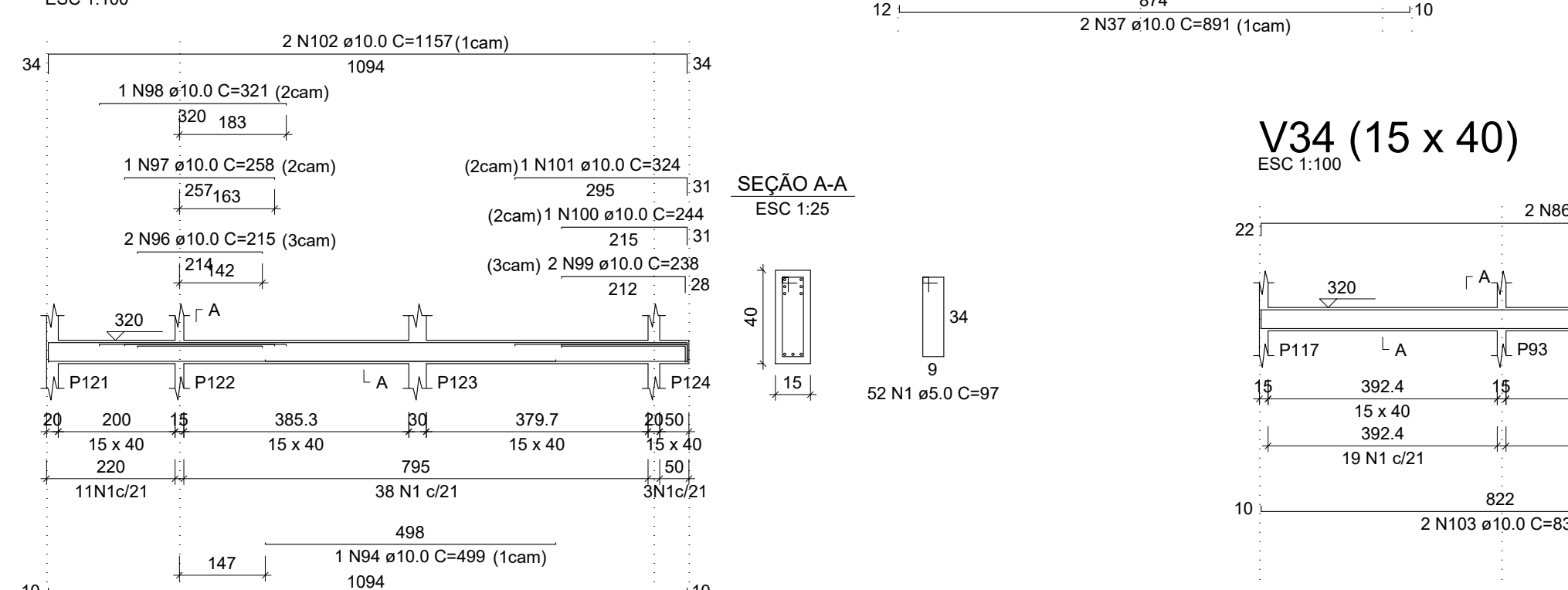
V31 (15 x 40)



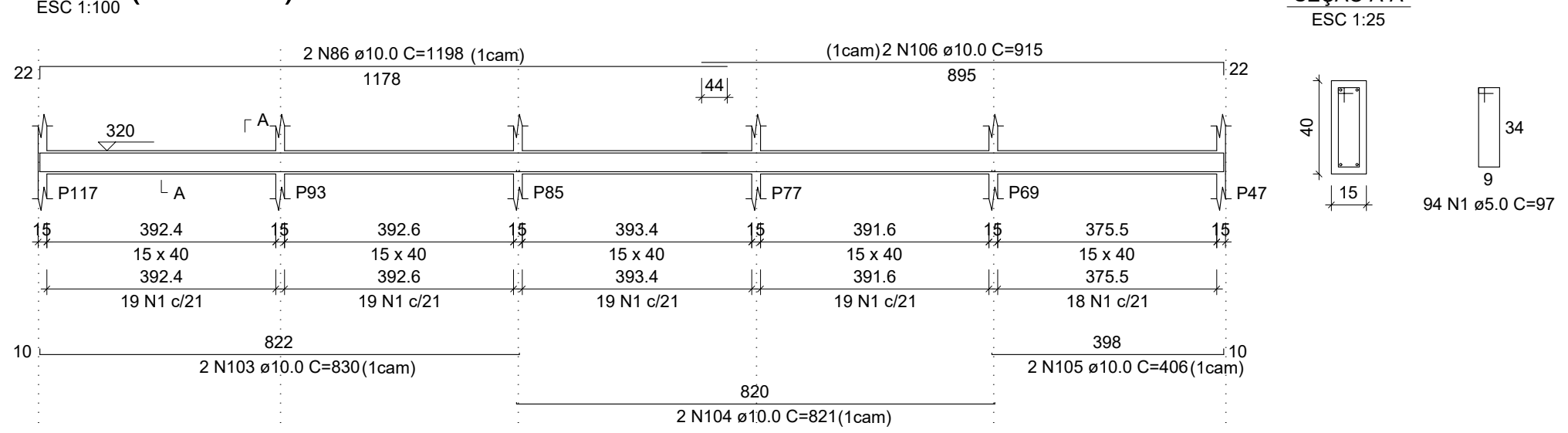
V32 (15 x 40)



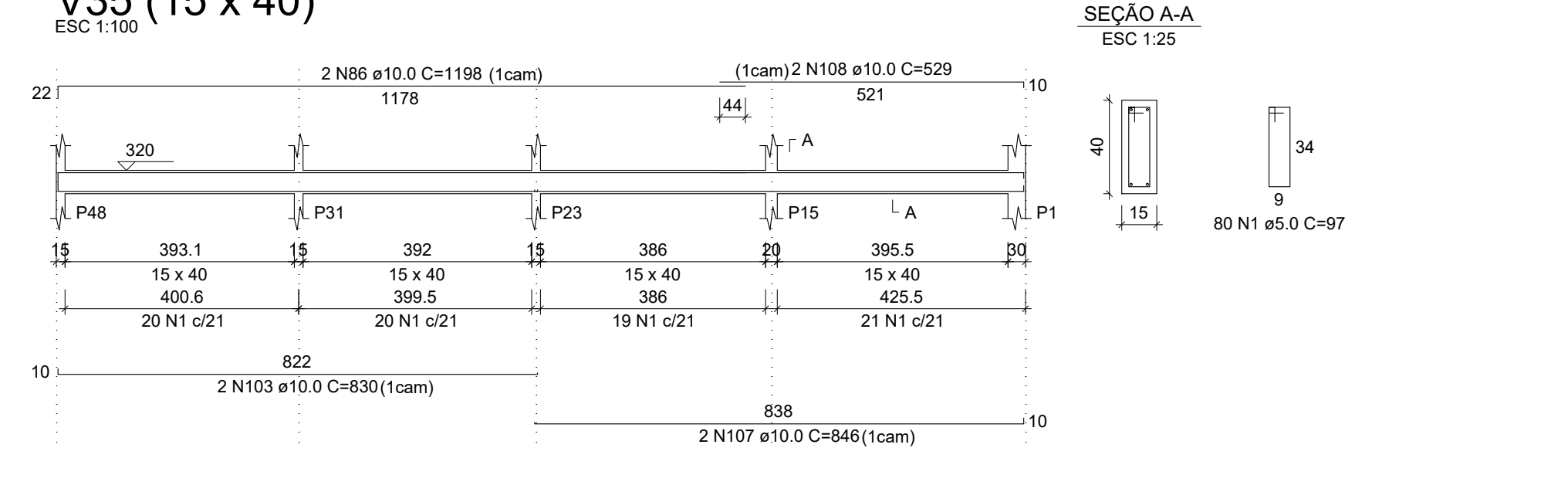
V33 (15 x 40)



V34 (15 x 40)



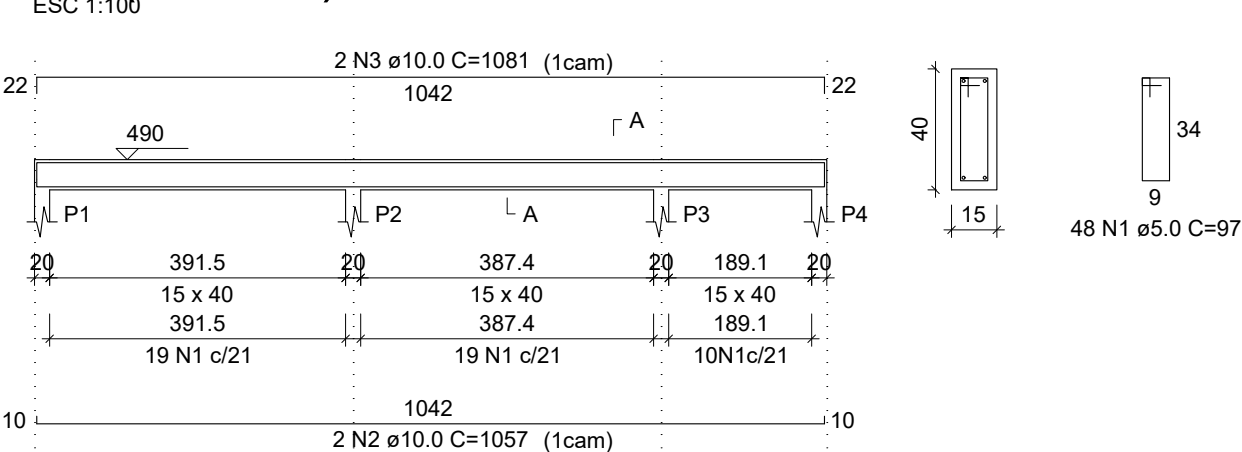
V35 (15 x 40)



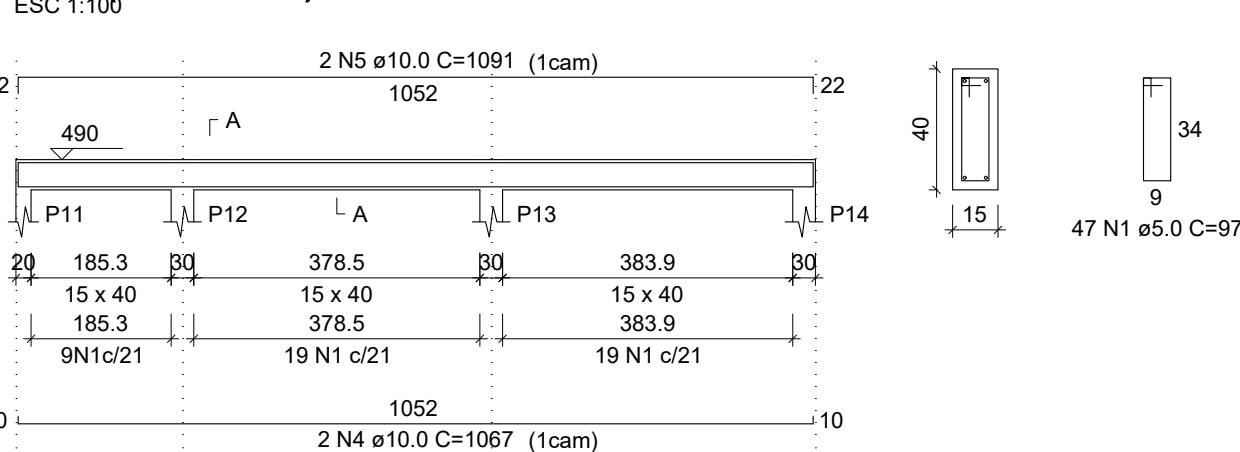
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	1709	97	165773
CA50	2	5.0	1709	97	165773
CA50	3	6.3	4	840	3360
CA50	4	6.3	4	840	3360
CA50	5	8.0	12	87	1044
CA50	6	10.0	8	117	936
CA50	7	10.0	2	897	1794
CA50	8	10.0	2	450	900
CA50	9	10.0	1	241	241
CA50	10	10.0	2	1199	2398
CA50	11	10.0	2	1093	2186
CA50	12	10.0	2	216	432
CA50	13	10.0	2	818	1636
CA50	14	10.0	2	427	854
CA50	15	10.0	2	1129	2258
CA50	16	10.0	2	174	348
CA50	17	10.0	2	1102	2204
CA50	18	10.0	1	231	231
CA50	19	10.0	2	1128	2256
CA50	20	10.0	2	274	548
CA50	21	10.0	4	884	3536
CA50	22	10.0	2	287	574
CA50	23	10.0	1	921	921
CA50	24	10.0	2	266	532
CA50	25	10.0	5	417	2085
CA50	26	10.0	2	266	532
CA50	27	10.0	2	884	1768
CA50	28	10.0	2	276	552
CA50	29	10.0	3	318	954
CA50	30	10.0	2	925	1850
CA50	31	10.0	2	270	540
CA50	32	10.0	4	884	3536
CA50	33	10.0	4	277	1108
CA50	34	10.0	1	317	317
CA50	35	10.0	4	884	3536
CA50	36	10.0	8	691	5528
CA50	37	10.0	1	269	269
CA50	38	10.0	1	294	294
CA50	39	10.0	1	269	269
CA50	40	10.0	3	290	870
CA50	41	10.0	3	290	870
CA50	42	10.0	2	294	588
CA50	43	10.0	6	412	2472
CA50	44	10.0	2	294	588
CA50	45	10.0	2	195	390
CA50	46	10.0	2	816	1632
CA50	47	10.0	6	425	2550
CA50	48	10.0	4	1277	5108
CA50	49	10.0	2	194	388
CA50	50	10.0	2	1067	2134
CA50	51	10.0	1	217	217
CA50	52	10.0	2	1067	2134
CA50	53	10.0	2	1067	2134
CA50	54	10.0	2	1067	2134
CA50	55	10.0	2	1140	2280
CA50	56	10.0	2	1140	2280
CA50	57	10.0	2	1140	2280
CA50	58	10.0	2	1140	2280
CA50	59	10.0	2	1140	2280
CA50	60	10.0	2	1140	2280
CA50	61	10.0	2	1140	2280
CA50	62	10.0	2	1140	2280
CA50	63	10.0	2	1140	2280
CA50	64	10.0	2	1140	2280
CA50	65	10.0	1	415	415
CA50	66	10.0	1	415	415
CA50	67	10.0	5	291	1455
CA50	68	10.0	2	925	1850
CA50	69	10.0	1	267	267
CA50	70	10.0	1	415	415
CA50	71	10.0	2	884	1768
CA50	72	10.0	2	432	864
CA50	73	10.0	2	323	646
CA50	74	10.0	6	283	1698
CA50	75	10.0	2	323	646
CA50	76	10.0	4	868	3472
CA50	77	10.0	2	323	646
CA50	78	10.0	6	98	588
CA50	79	10.0	2	891	1782
CA50	80	10.0	2	341	682
CA50	81	10.0	4	833	3332
CA50	82	10.0	2	816	1632
CA50	83	10.0	2	816	1632
CA50	84	10.0	2	816	1632
CA50	85	10.0	2	816	1632
CA50	86	10.0	2	816	1632
CA50	87	10.0	2	816	1632
CA50	88	10.0	2	816	1632
CA50	89	10.0	1	652	652
CA50	90	10.0	2	1119	2238
CA50	91	10.0	2	195	390
CA50	92	10.0	2	1117	2234
CA50	93	10.0	2	190	380
CA50	94	10.0	1	499	499
CA50	95	10.0	2	1109	2218
CA50	96	10.0	2	215	430
CA50	97	10.0	1	258	258
CA50	98	10.0	1	321	321
CA50	99	10.0	2	238	476
CA50	100	10.0	1	244	244
CA50	101	10.0	1	324	324
CA50	102	10.0	2	1157	2314
CA50	103	10.0	4	830	3320
CA50	104	10.0	2	821	1642
CA50	105	10.0	2	406	812
CA50	106	10.0	2	915	1830
CA50	107	10.0	2	846	1692
CA50	108	10.0	2	929	18

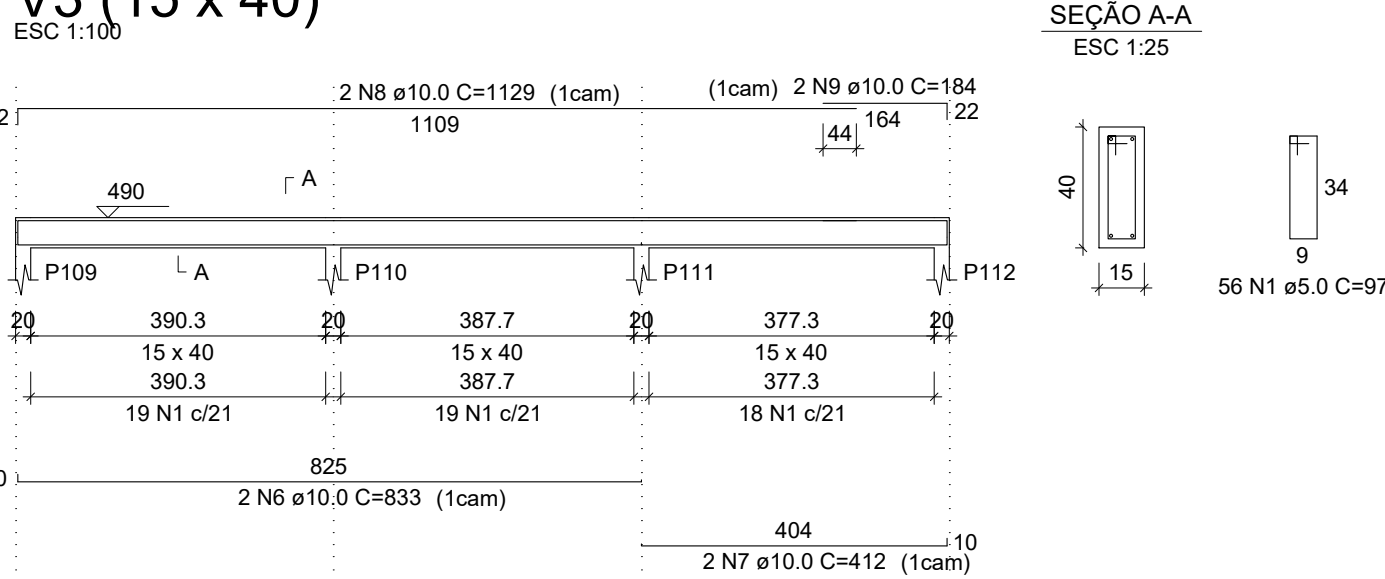
V1 (15 x 40)



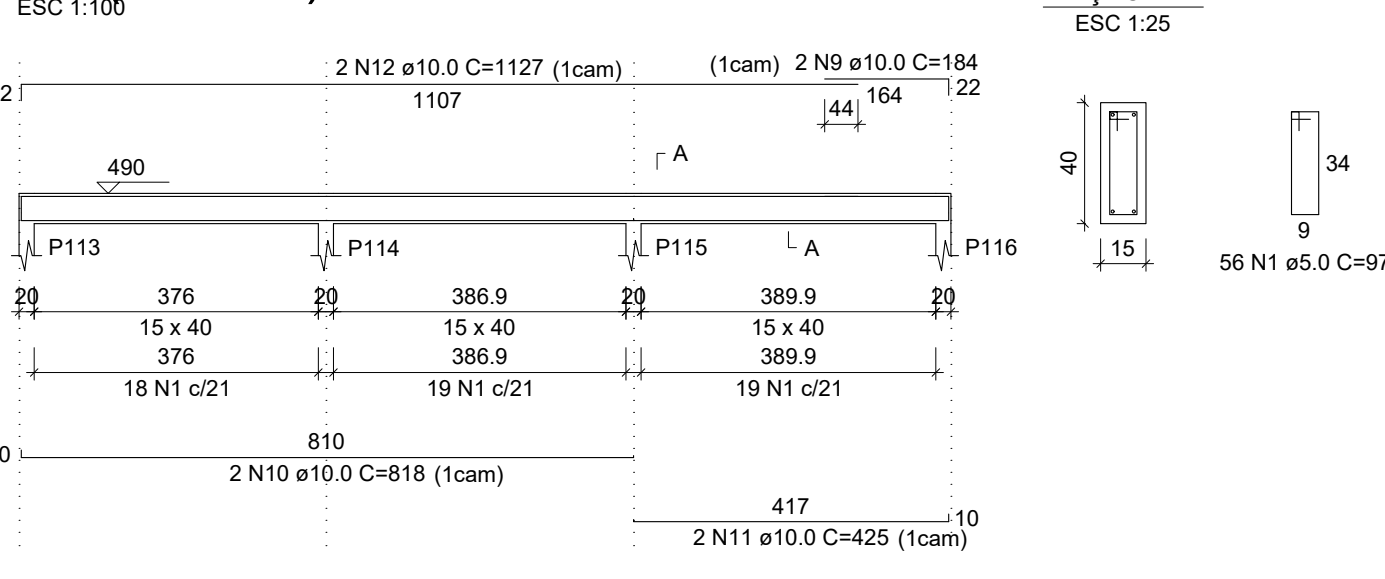
V2 (15 x 40)



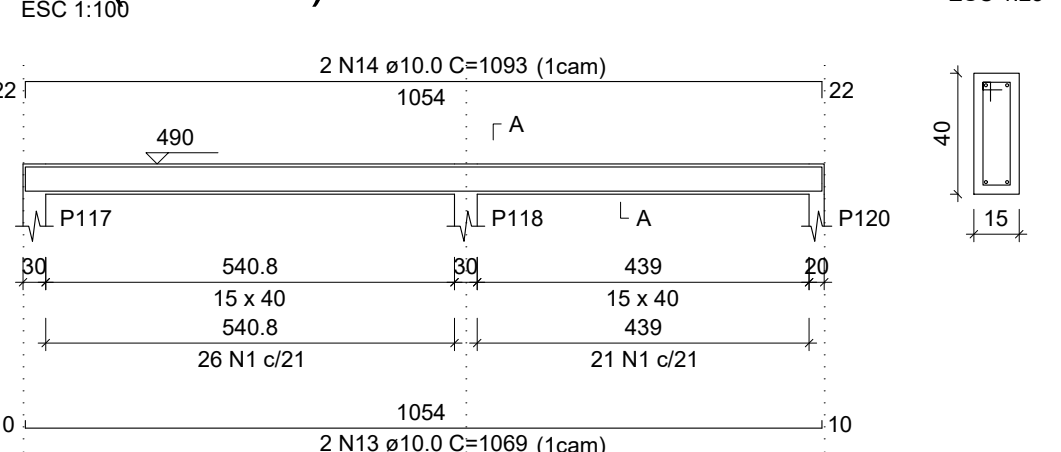
V3 (15 x 40)



V4 (15 x 40)



V5 (15 x 40)



RELAÇÃO DO AÇO

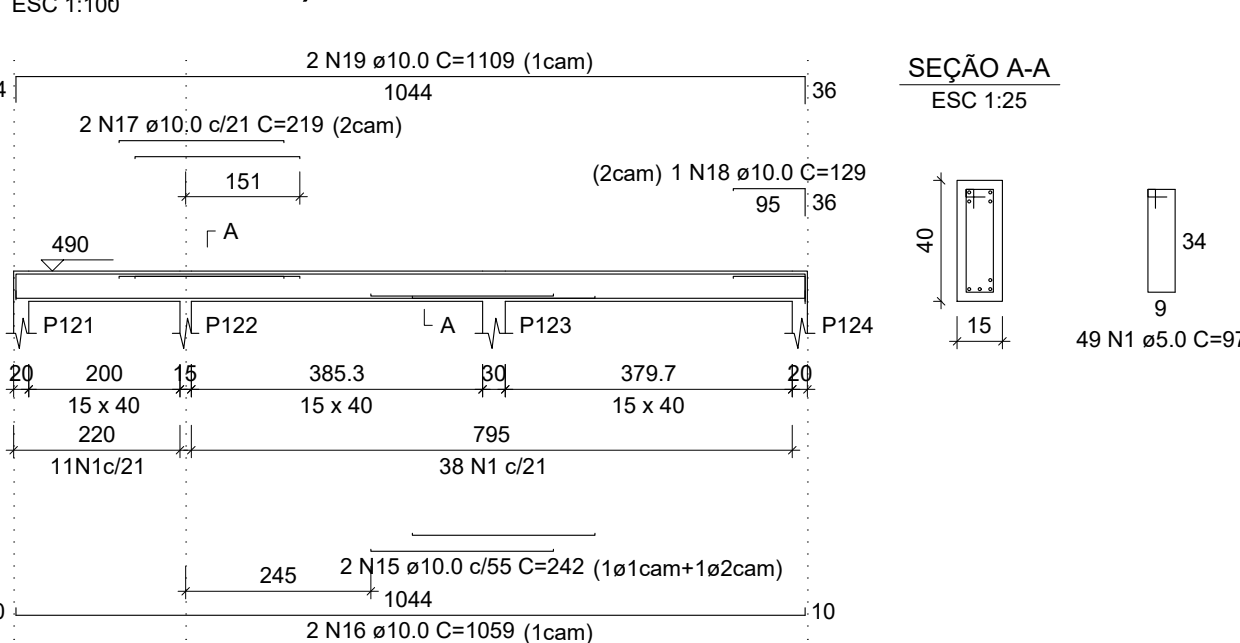
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	663	97	64311
CA50	2	10.0	2	1067	2114
	3	10.0	2	1081	2162
	4	10.0	2	1067	2134
	5	10.0	2	1091	2182
	6	10.0	2	833	1666
	7	10.0	2	412	824
	8	10.0	2	1129	2258
	9	10.0	4	184	736
	10	10.0	2	818	1636
	11	10.0	2	425	850
	12	10.0	2	1127	2254
	13	10.0	2	1060	2138
	14	10.0	2	1063	2186
	15	10.0	2	242	484
	16	10.0	2	1059	2118
	17	10.0	2	219	438
	18	10.0	1	129	129
	19	10.0	2	1109	2218
	20	10.0	4	830	3320
	21	10.0	2	821	1642
	22	10.0	2	406	812
	23	10.0	8	1198	9584
	24	10.0	4	815	3260
	25	10.0	2	846	1692
	26	10.0	2	541	1082
	27	10.0	2	224	448
	28	10.0	2	248	496
	29	10.0	2	227	454
	30	10.0	2	251	502
	31	10.0	2	820	1640
	32	10.0	2	821	1642
	33	10.0	2	408	816
	34	10.0	2	830	1660
	35	10.0	2	830	1660
	36	10.0	2	524	1048

RESUMO DO AÇO

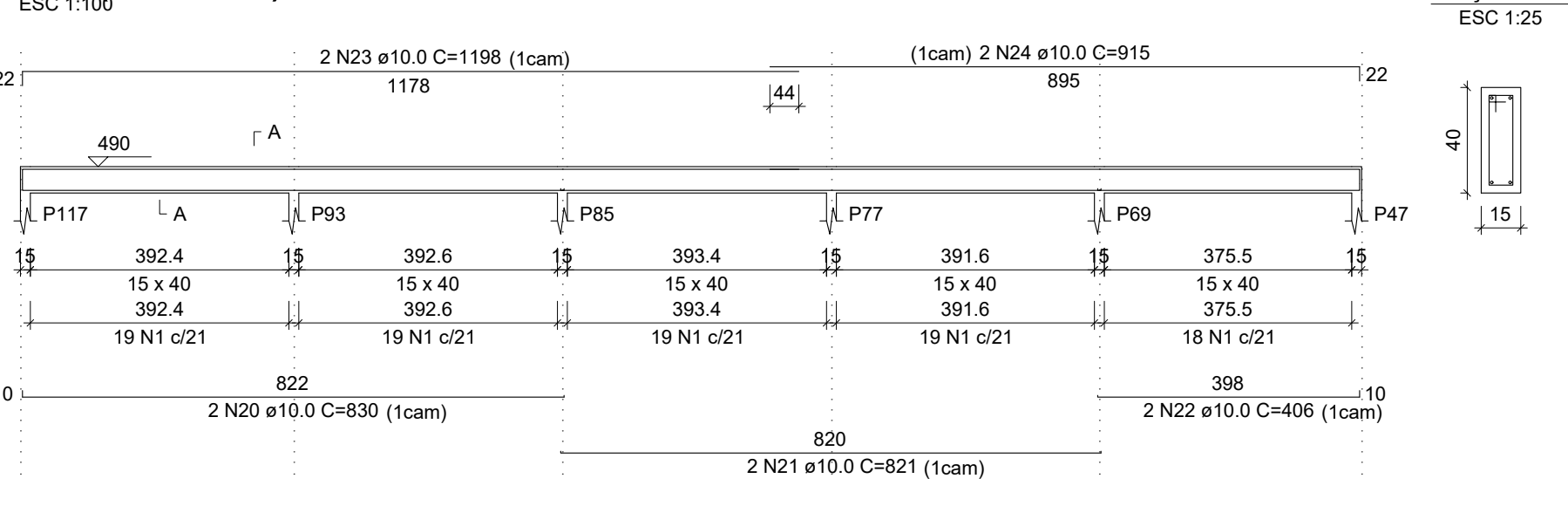
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0%	UNIT (Barra)	PESO + 0% (kg)
CA50	10.0	607	51	12 m	374.3
CA50	5.0	643.1	-	rolo (170 kg)	99.1
PESO TOTAL (kg)					374.3
CA50					99.1

Volume de concreto (C-25) = 8.70 m³
Área de forma = 137.89 m²

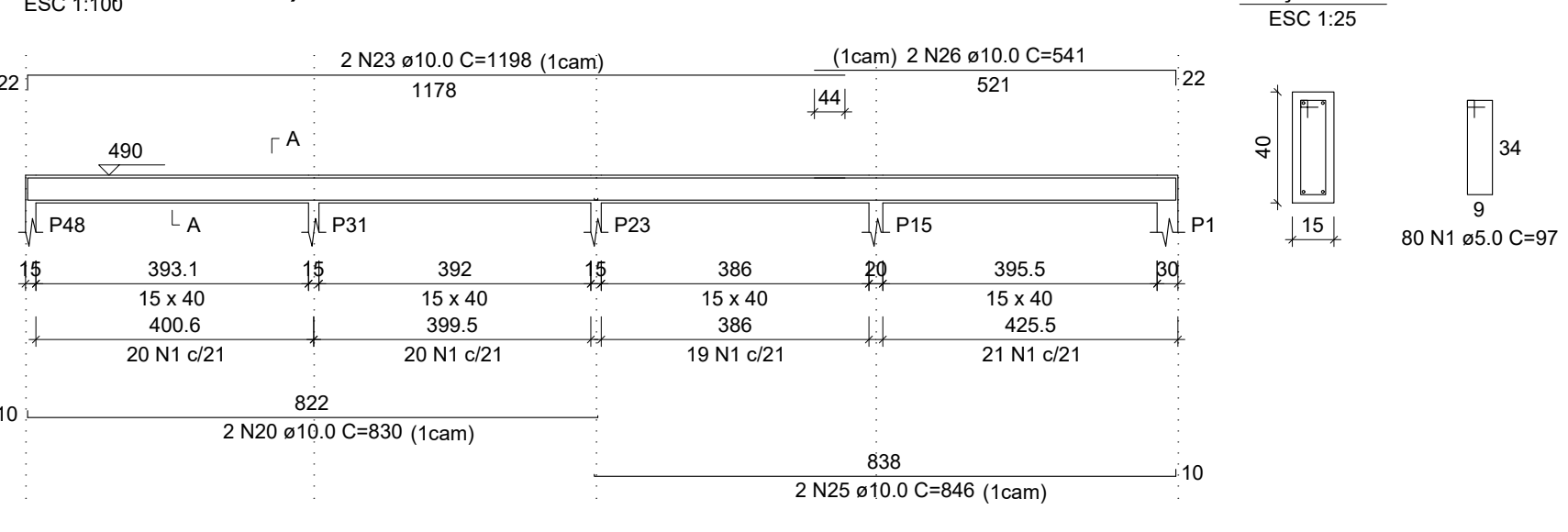
V6 (15 x 40)



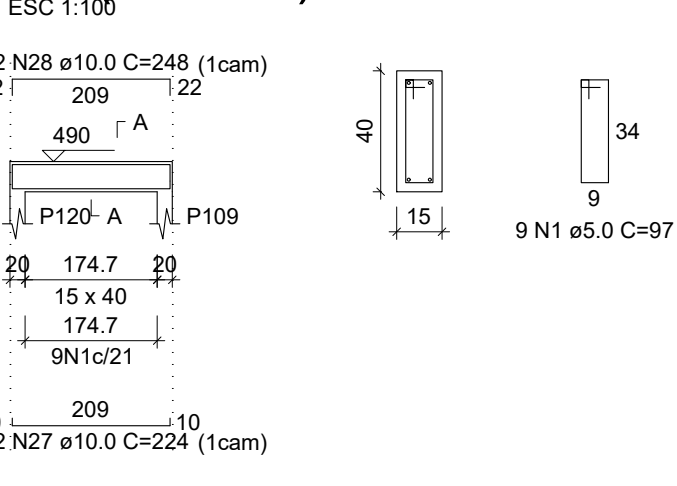
V7 (15 x 40)



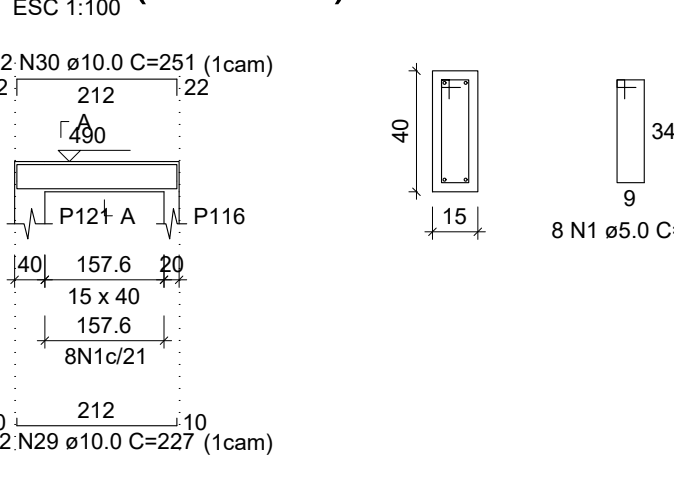
V8 (15 x 40)



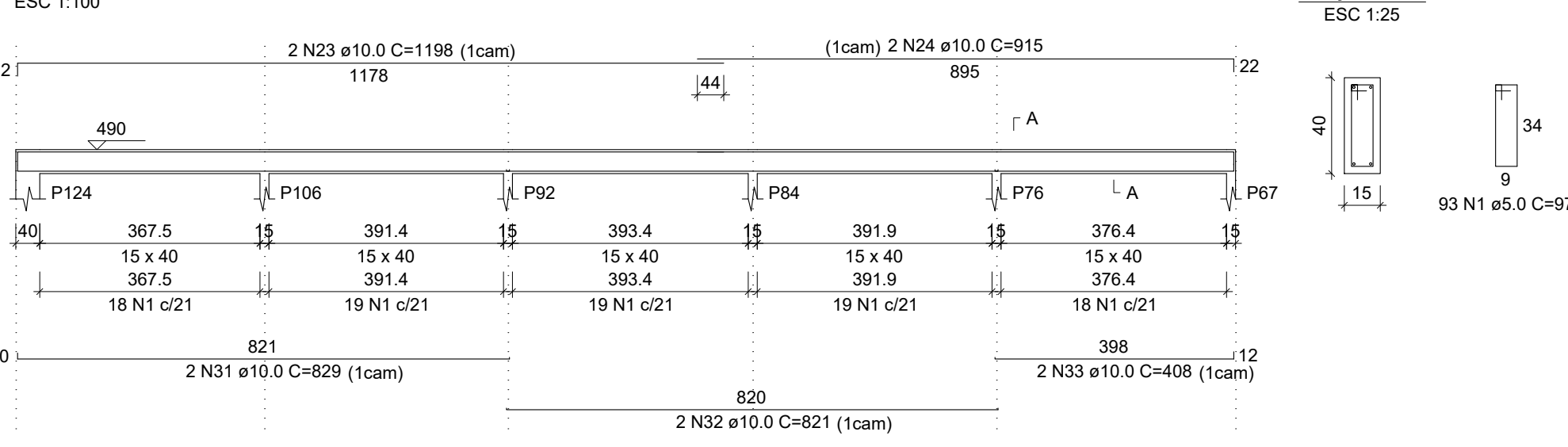
V9 (15 x 40)



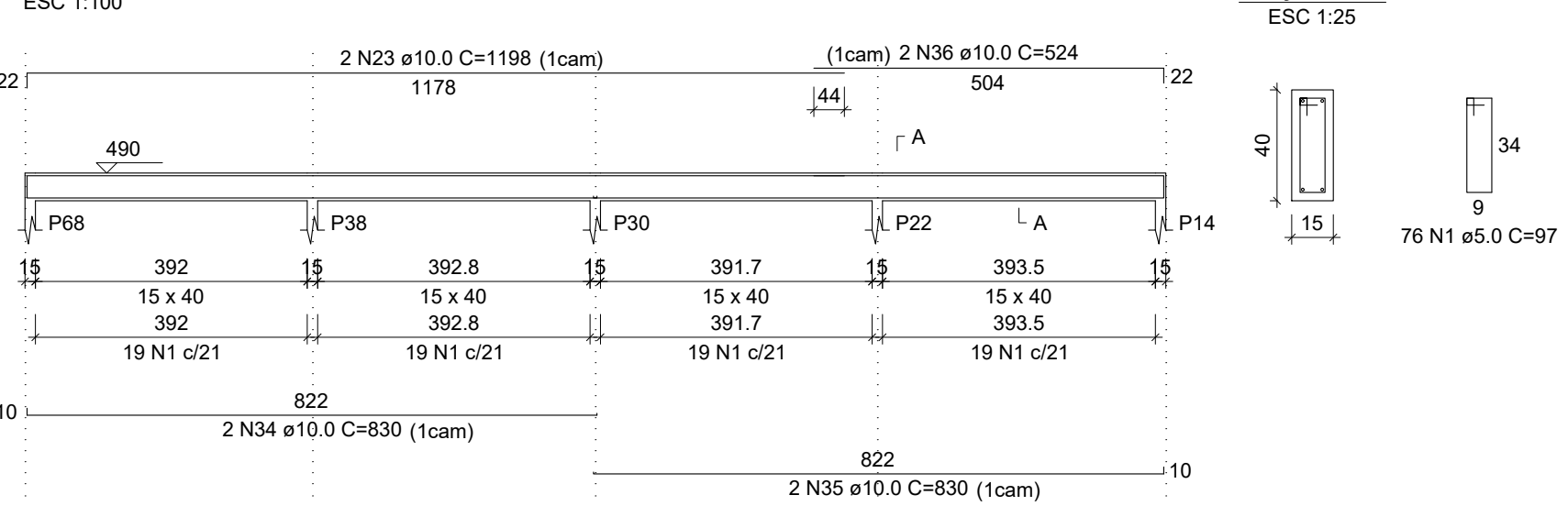
V10 (15 x 40)

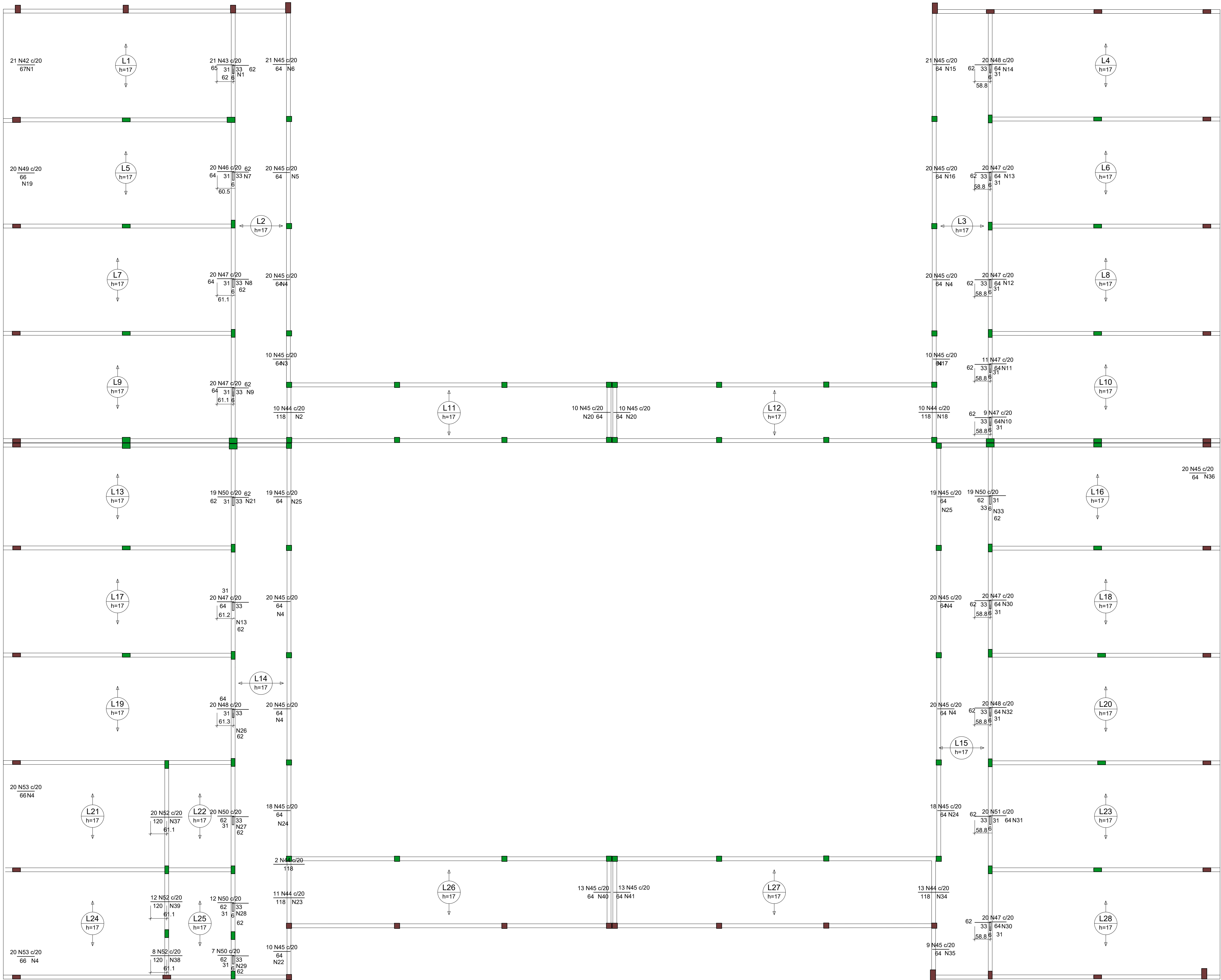


V11 (15 x 40)



V12 (15 x 40)



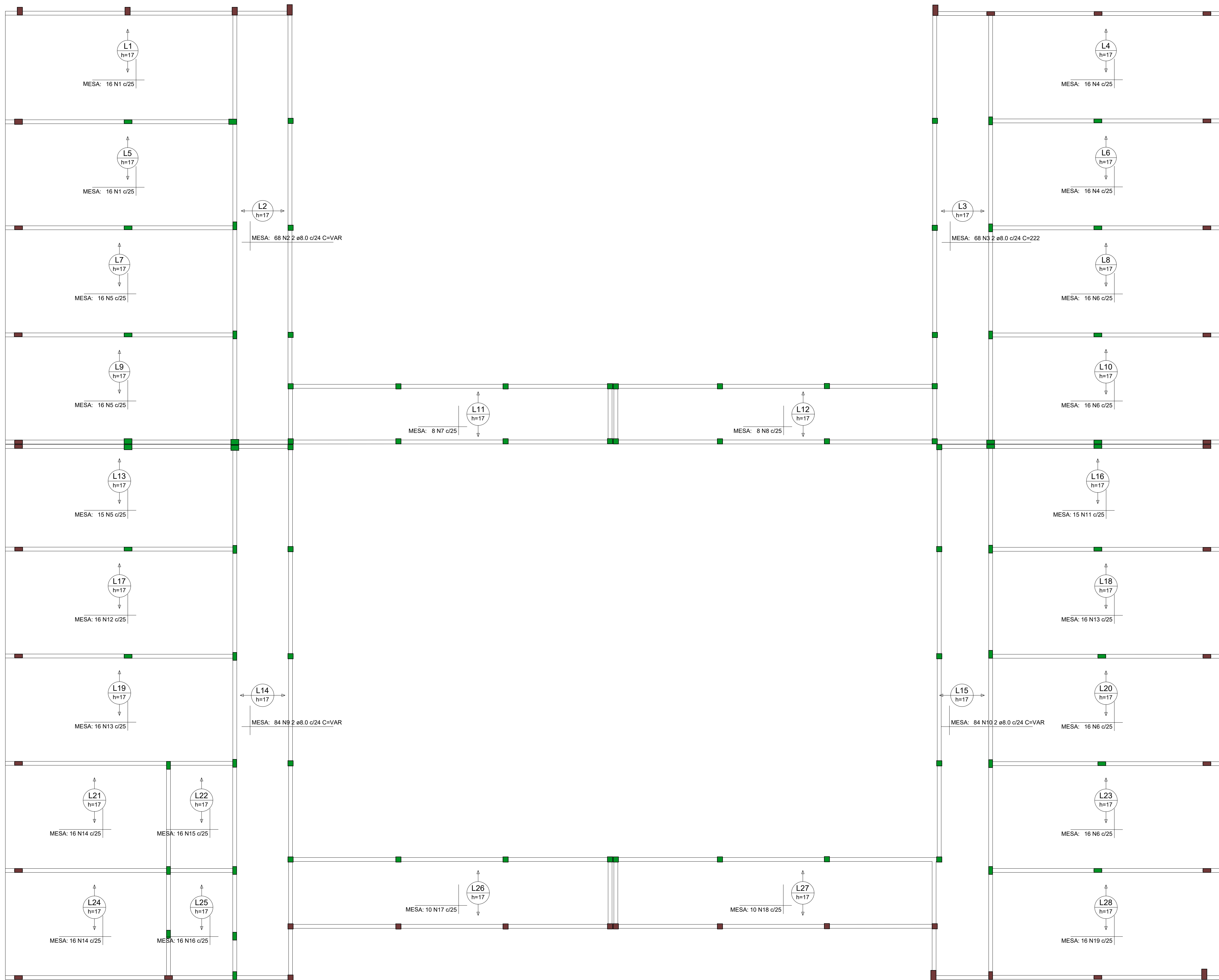


Armaduras de distribuição	
Armadura	Armadura de distribuição
N42	4 N1 a5.0 c/20 C=418
N43	6 N1 a5.0 c/20 C=418
N44	6 N2 a5.0 c/20 C=209
N45	4 N3 a5.0 c/20 C=196
N45	4 N4 a5.0 c/20 C=408
N45	4 N5 a5.0 c/20 C=407
N45	4 N6 a5.0 c/20 C=414
N46	6 N7 a5.0 c/20 C=393
N47	6 N8 a5.0 c/20 C=409
N47	6 N9 a5.0 c/20 C=405
N47	6 N10 a5.0 c/20 C=175
N47	6 N11 a5.0 c/20 C=229
N47	6 N12 a5.0 c/20 C=402
N47	6 N13 a5.0 c/20 C=401
N48	6 N14 a5.0 c/20 C=405
N45	4 N15 a5.0 c/20 C=413
N45	4 N16 a5.0 c/20 C=407
N45	4 N4 a5.0 c/20 C=408
N45	4 N17 a5.0 c/20 C=195
N44	6 N18 a5.0 c/20 C=210
N49	4 N19 a5.0 c/20 C=403
N45	4 N20 a5.0 c/20 C=209
N45	4 N20 a5.0 c/20 C=209
N50	6 N21 a5.0 c/20 C=384
N45	4 N22 a5.0 c/20 C=195
N44	6 N23 a5.0 c/20 C=213
N45	4 N24 a5.0 c/20 C=366
N45	4 N4 a5.0 c/20 C=408
N45	4 N4 a5.0 c/20 C=408
N45	4 N25 a5.0 c/20 C=398
N47	6 N13 a5.0 c/20 C=401
N48	6 N26 a5.0 c/20 C=401
N50	6 N27 a5.0 c/20 C=402
N50	6 N28 a5.0 c/20 C=244
N50	6 N29 a5.0 c/20 C=144
N47	6 N30 a5.0 c/20 C=394
N51	6 N31 a5.0 c/20 C=400
N48	6 N32 a5.0 c/20 C=410
N47	6 N30 a5.0 c/20 C=394
N50	6 N33 a5.0 c/20 C=398
N45	4 N25 a5.0 c/20 C=388
N45	4 N4 a5.0 c/20 C=408
N45	4 N4 a5.0 c/20 C=408
N44	6 N34 a5.0 c/20 C=254
N45	4 N35 a5.0 c/20 C=180
N45	4 N36 a5.0 c/20 C=391
N52	6 N37 a5.0 c/20 C=394
N53	4 N4 a5.0 c/20 C=408
N53	4 N4 a5.0 c/20 C=407
N52	6 N38 a5.0 c/20 C=162
N22	6 N39 a5.0 c/20 C=236
N45	4 N40 a5.0 c/20 C=255
N45	4 N41 a5.0 c/20 C=254

RELAÇÃO DO AÇO						
Negativos X						
ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)	
CA50	1	5.0	10	418	4180	
	2	5.0	6	209	1254	
	3	5.0	4	196	784	
	4	5.0	32	405	13056	
	5	5.0	4	407	1628	
	6	5.0	4	414	1656	
	7	5.0	6	393	2358	
	8	5.0	6	409	2454	
	9	5.0	6	405	2430	
	10	5.0	6	175	1050	
	11	5.0	6	229	1374	
	12	5.0	6	402	2412	
	13	5.0	12	401	4812	
	14	5.0	6	405	2430	
	15	5.0	4	413	1652	
	16	5.0	4	407	1628	
	17	5.0	4	195	780	
	18	5.0	6	210	1260	
	19	5.0	4	403	1612	
	20	5.0	8	209	1672	
	21	5.0	6	384	2304	
	22	5.0	4	195	780	
	23	5.0	6	213	1278	
	24	5.0	8	366	2928	
	25	5.0	8	388	3104	
	26	5.0	6	401	2406	
	27	5.0	6	402	2412	
	28	5.0	6	244	1464	
	29	5.0	6	144	864	
	30	5.0	12	394	4728	
	31	5.0	6	400	2400	
	32	5.0	6	410	2460	
	33	5.0	6	388	2328	
	34	5.0	6	254	1524	
	35	5.0	4	190	720	
	36	5.0	4	391	1564	
	37	5.0	6	394	2364	
	38	5.0	6	162	972	
	39	5.0	6	236	1416	
	40	5.0	4	255	1020	
	41	5.0	4	254	1016	
CA50	42	8.0	21	67	1407	
	43	8.0	21	190	3990	
	44	8.0	46	118	5428	
	45	8.0	381	64	24384	
	46	8.0	20	189	3780	
	47	8.0	190	189	36090	
	48	8.0	60	189	11340	
	49	8.0	20	65	1320	
	50	8.0	77	187	14399	
	51	8.0	20	189	3780	
	52	8.0	40	120	4800	
	53	8.0	40	66	2640	

RESUMO DO AÇO					
ACO	DIAM (mm)	C.TOTAL (m)	QUANT + 6% (Barras)	UNIT (kg)	PESO + 6% (kg)
CA50	8.0	1075.1	90	12	424.2
CA60	5.0	905.3	-	rolo (170 kg)	139.5
PESO TOTAL (kg)					
CA50		424.2			
CA60		139.5			
Volume de concreto (C-25) = 0.00 m³					
Área de forma = 0.00 m²					

Armação negativa das lajes do pavimento PRIMEIRO (Eixo X)
escala 1:75



RELACO DO AO

Positivos X

AO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	32	824	26368
	2	8.0	68	VAR	VAR
	3	8.0	68	222	15096
	4	8.0	32	874	27968
	5	8.0	47	874	41678
	6	8.0	64	874	55936
	7	8.0	8	corr	9784
	8	8.0	8	corr	9760
	9	8.0	84	VAR	VAR
	10	8.0	84	VAR	VAR
	11	8.0	15	823	12345
	12	8.0	16	VAR	VAR
	13	8.0	32	VAR	VAR
	14	8.0	32	572	18304
	15	8.0	16	261	4176
	16	8.0	16	VAR	VAR
	17	8.0	10	corr	12230
	18	8.0	10	corr	12180
	19	8.0	16	VAR	VAR

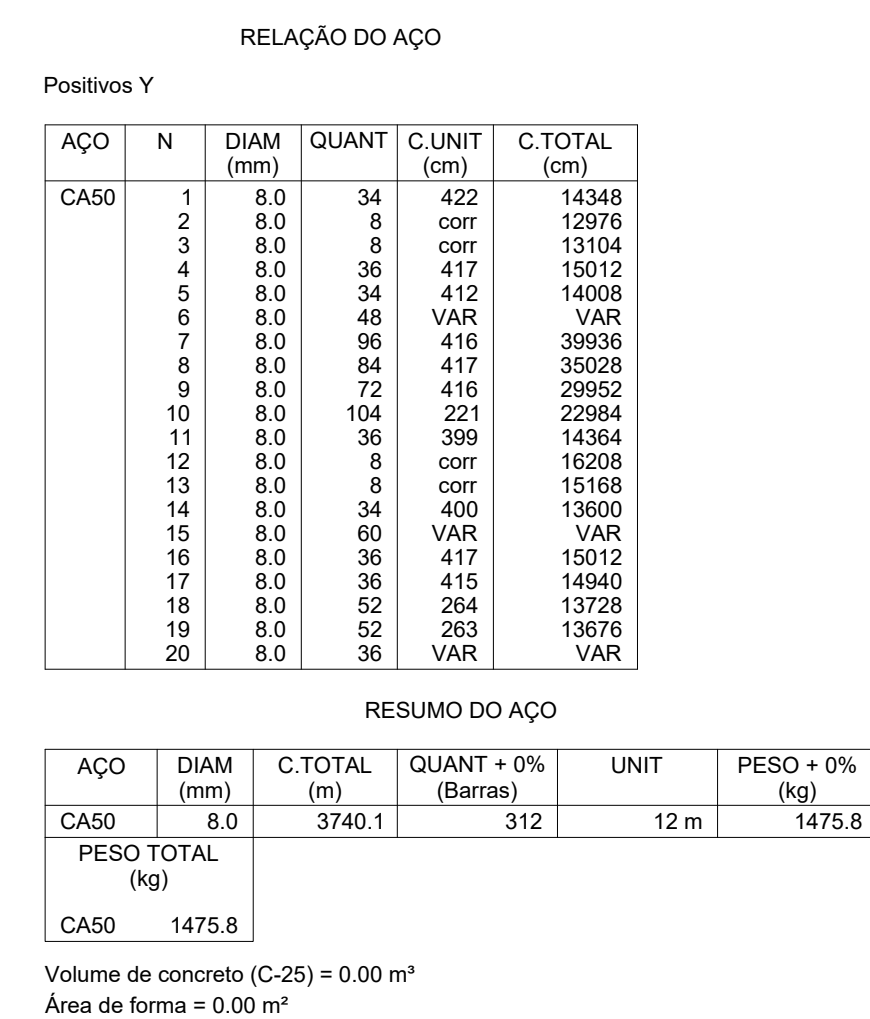
RESUMO DO AO

AO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	8.0	3362.5	297	12 m	1405.7
PESO TOTAL (kg)					
CA50					1405.7

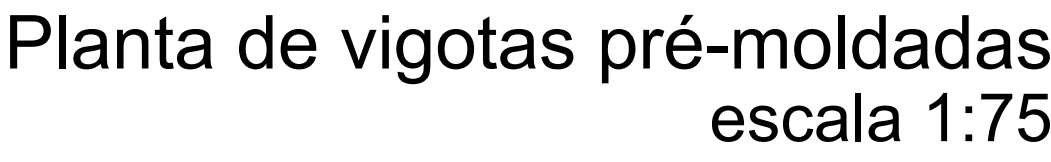
Volume de concreto (C-25) = 58.81 m³
Área de forma = 0.00 m²

Armao positiva das lajes do pavimento PRIMEIRO (Eixo X)

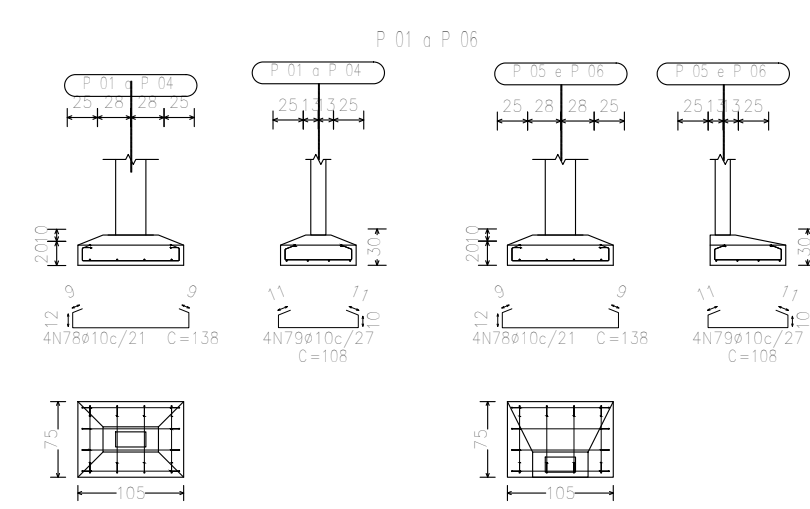
escala 1:75



 INSTITUTO FEDERAL do Rio de Janeiro	INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA SERGIANO PENABAZCÁN UNIVERSIDADE DO RIO DE JANEIRO E INFRAESTRUTURA Rua Antônio de Albuquerque, 240 - Centro Penabazcán/PFE CEP: 56.302-100	PROJETO ESTRUTURAL DO CAMPUS ARARIPINA DO IFsertoPE ENDEREÇO: Av. Recife, SN, CEP: 56200-000 Araripina/PE
DISCIPLINA: LAJE FERRAGEM POSITIVA Y (BLOCO ADM.)		ESCALA 1/75 DATA ABRIL/2025
ASSINATURA/LOCAL: _____ DATA: _____	ASSINATURA/LOCAL: _____ DATA: _____	Assinatura do Responsável Técnico Wilson Nery da Cunha - CREA BA 14748 ANEXO 18 19

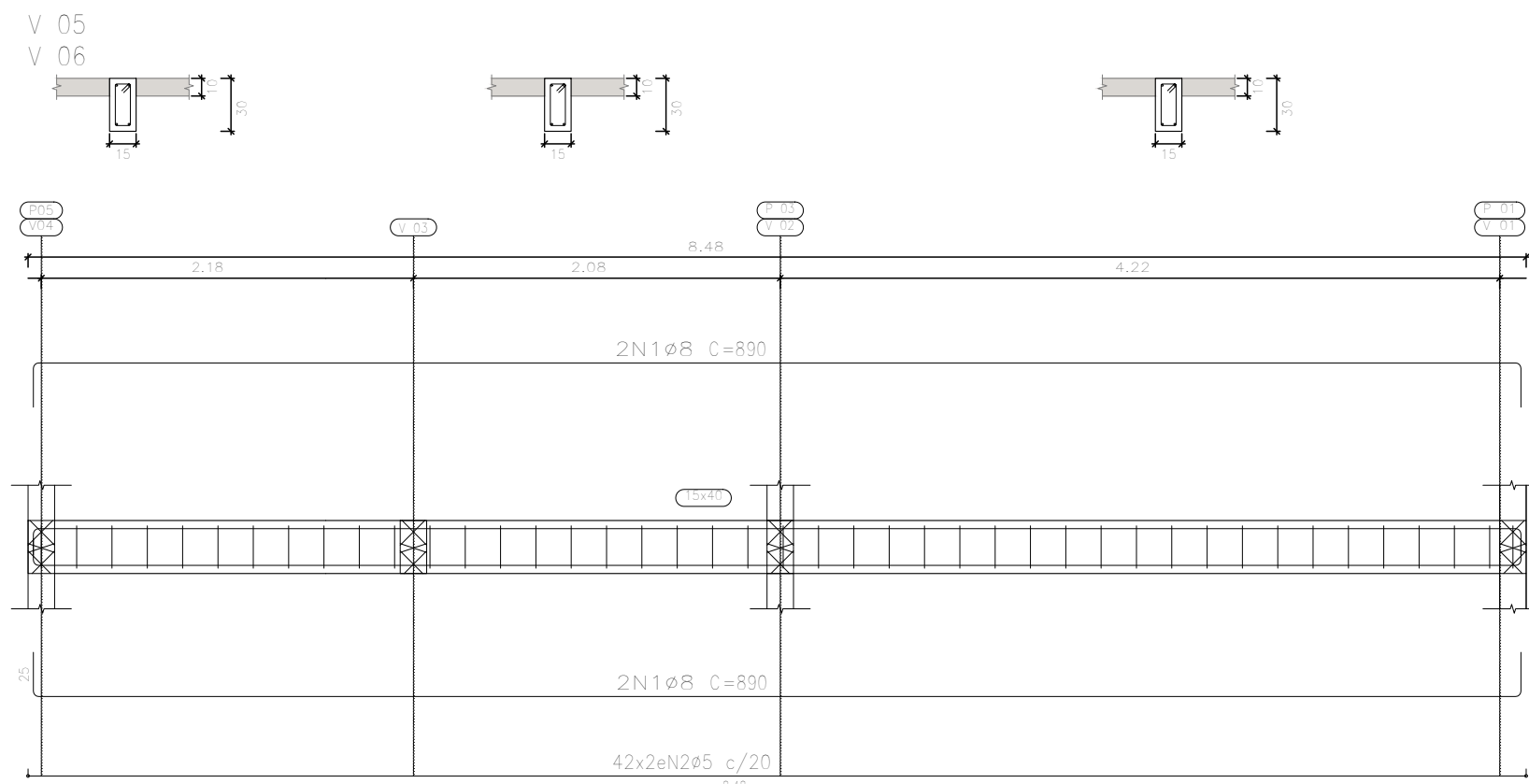
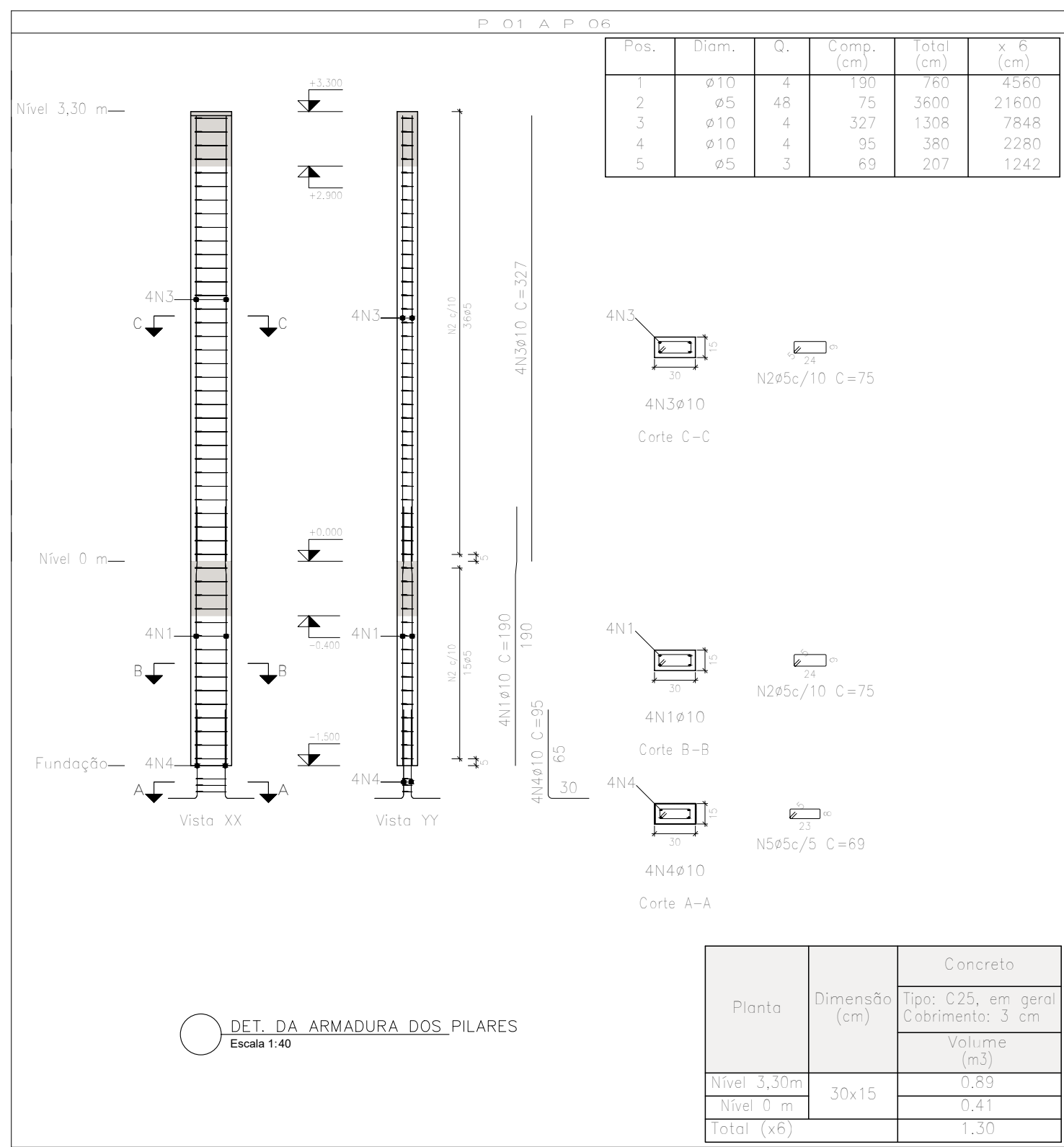
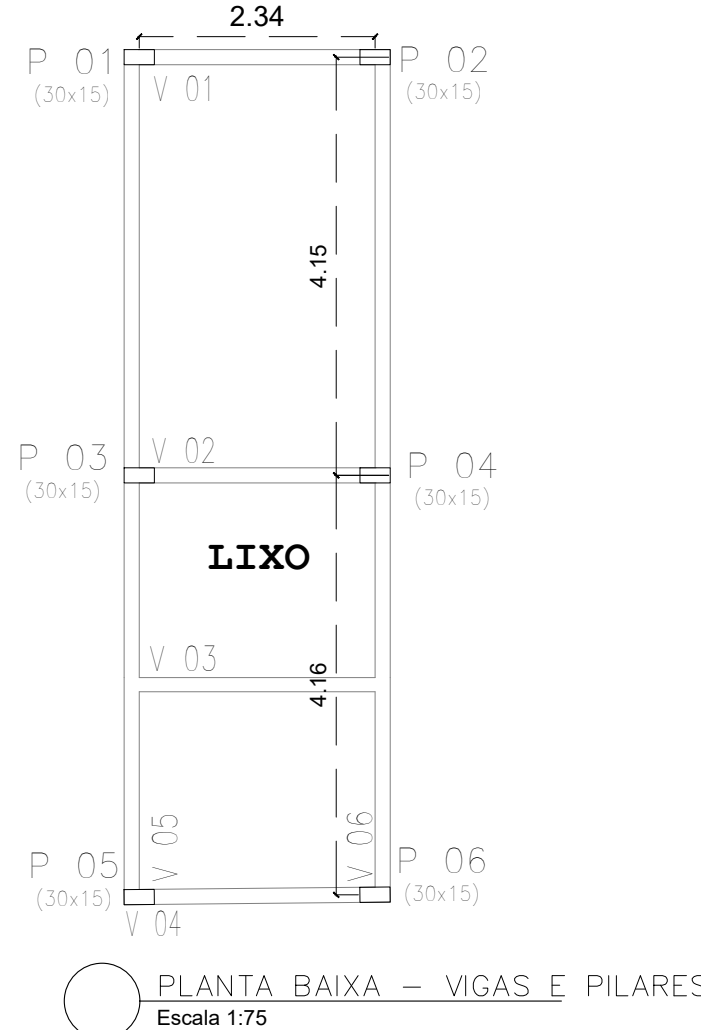
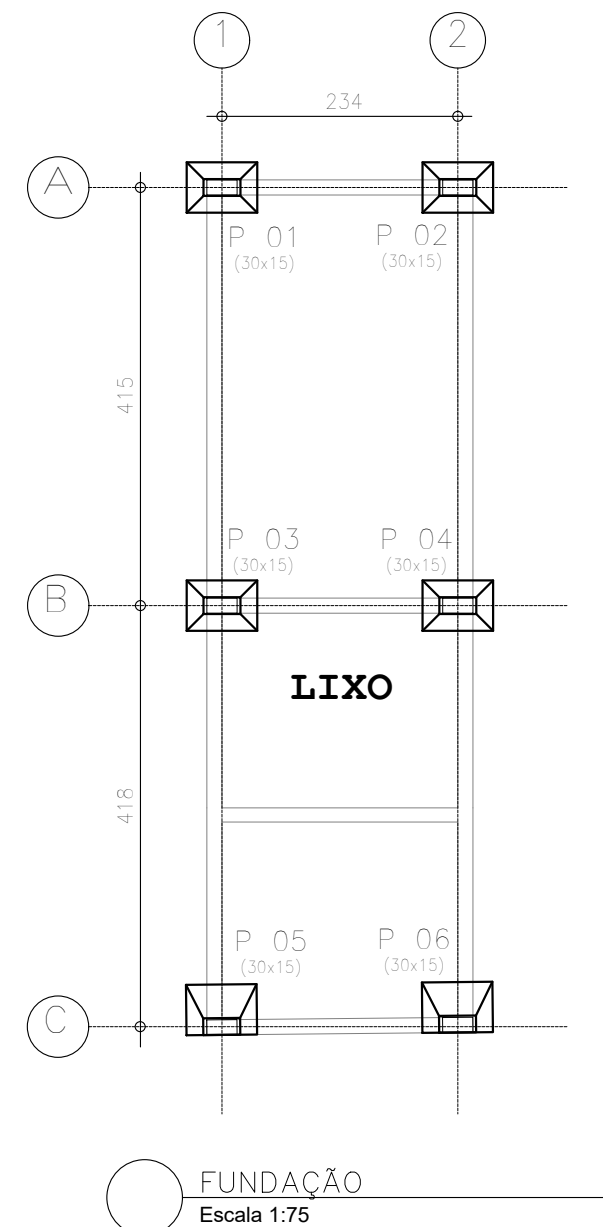


Volume de concreto (C-25) = 0.00 m³
Área de forma = 0.00 m²



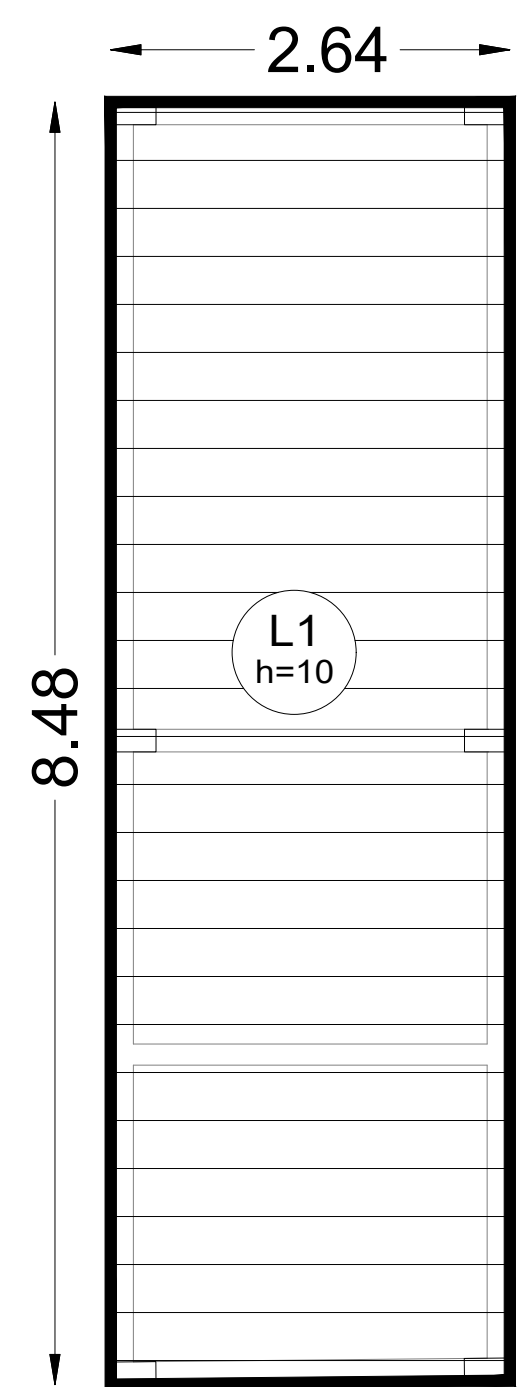
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
V 01	1	ø8,0	4	305	305	4880	19,3
V 02	2	ø5,0	13	305	71	923	1,4
V 03							
V 04							
Total + 10%							22,8
(x4)							91,2

Resumo Aço Fundação	Comp. total (m)	Peso+10% (kg)	Total
Detalhamento fundação			
CA-50	ø10	14,76	10,02
			10,02



Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
V 01	1	ø8,0	4	305	305	4880	19,3
V 02	2	ø5,0	13	305	71	923	1,4
V 03							
V 04							
Total + 10%							22,8
(x4)							91,2

Resumo Aço Fundação	Comp. total (m)	Peso+10% (kg)	Total
Detalhamento fundação			
CA-50	ø5	96,56	16,36
	ø8	266,40	115,75
			132,11

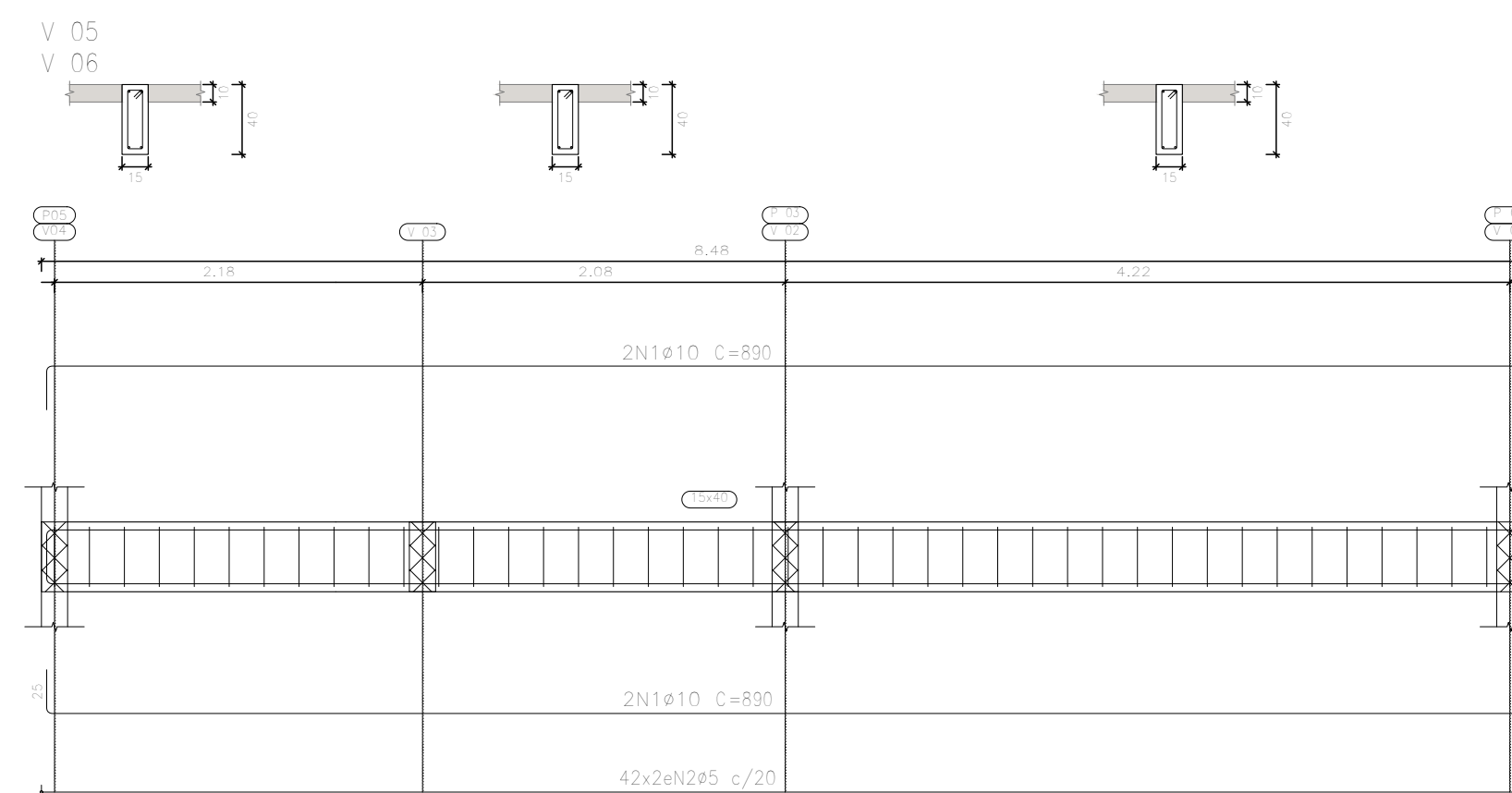
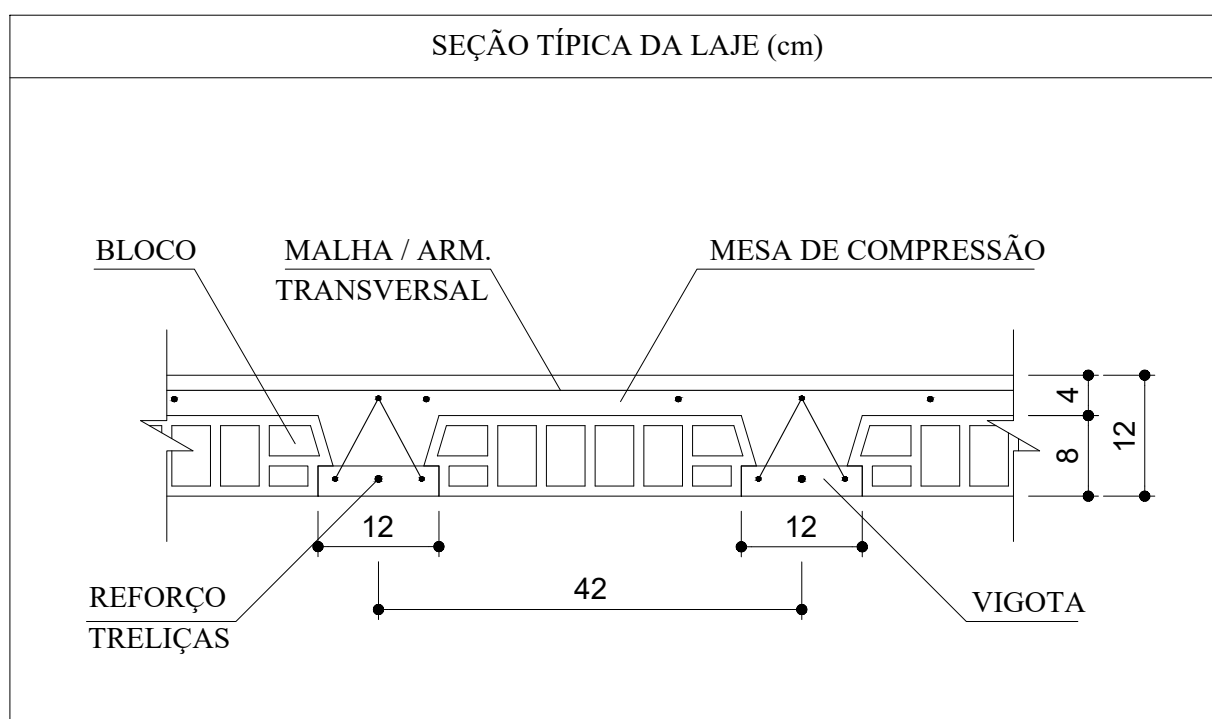


RESUMO DA ÁREA DA LAJE PRÉ-MOLDADA

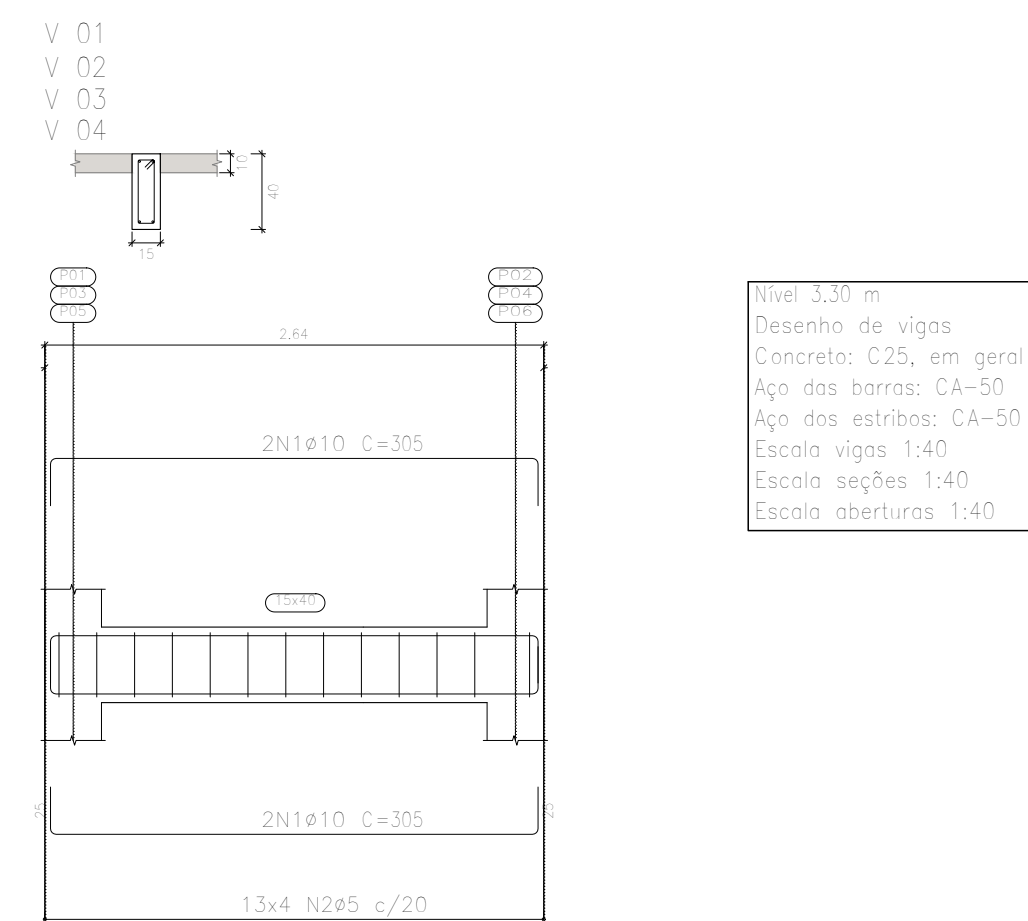
LAJES	ÁREA
L01	22,36 m²
ÁREA TOTAL	22,36 m²

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
V 01	1	ø8,0	4	305	305	4880	19,3
V 02	2	ø5,0	13	305	91	1183	1,8
V 03							
V 04							
Total + 10%							23,2
(x4)							92,8

Resumo Aço Fundação	Comp. total (m)	Peso+10% (kg)	Total
Detalhamento Fundação			
CA-50	ø5	96,56	16,36
	ø8	266,40	115,75
			132,11

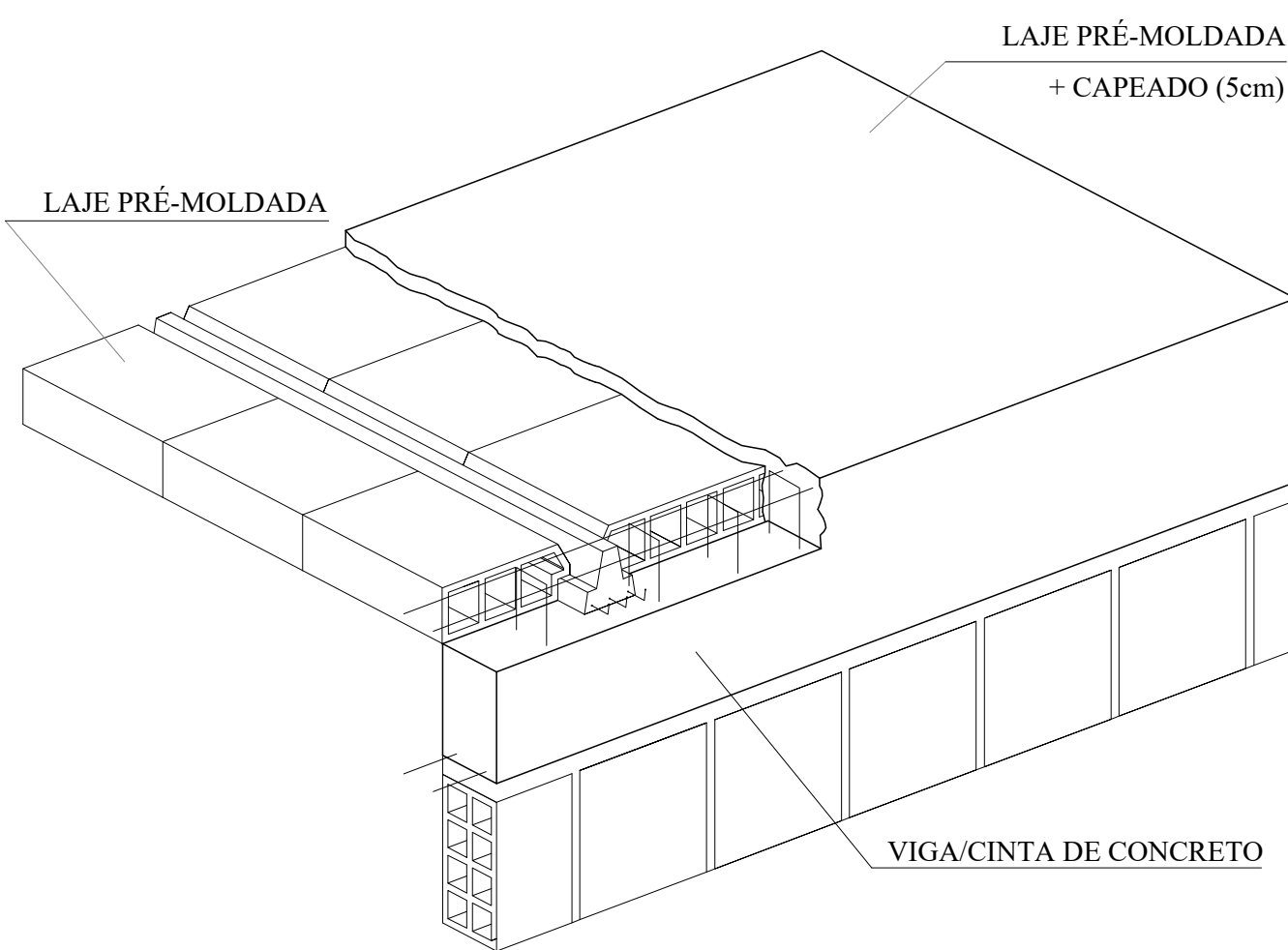


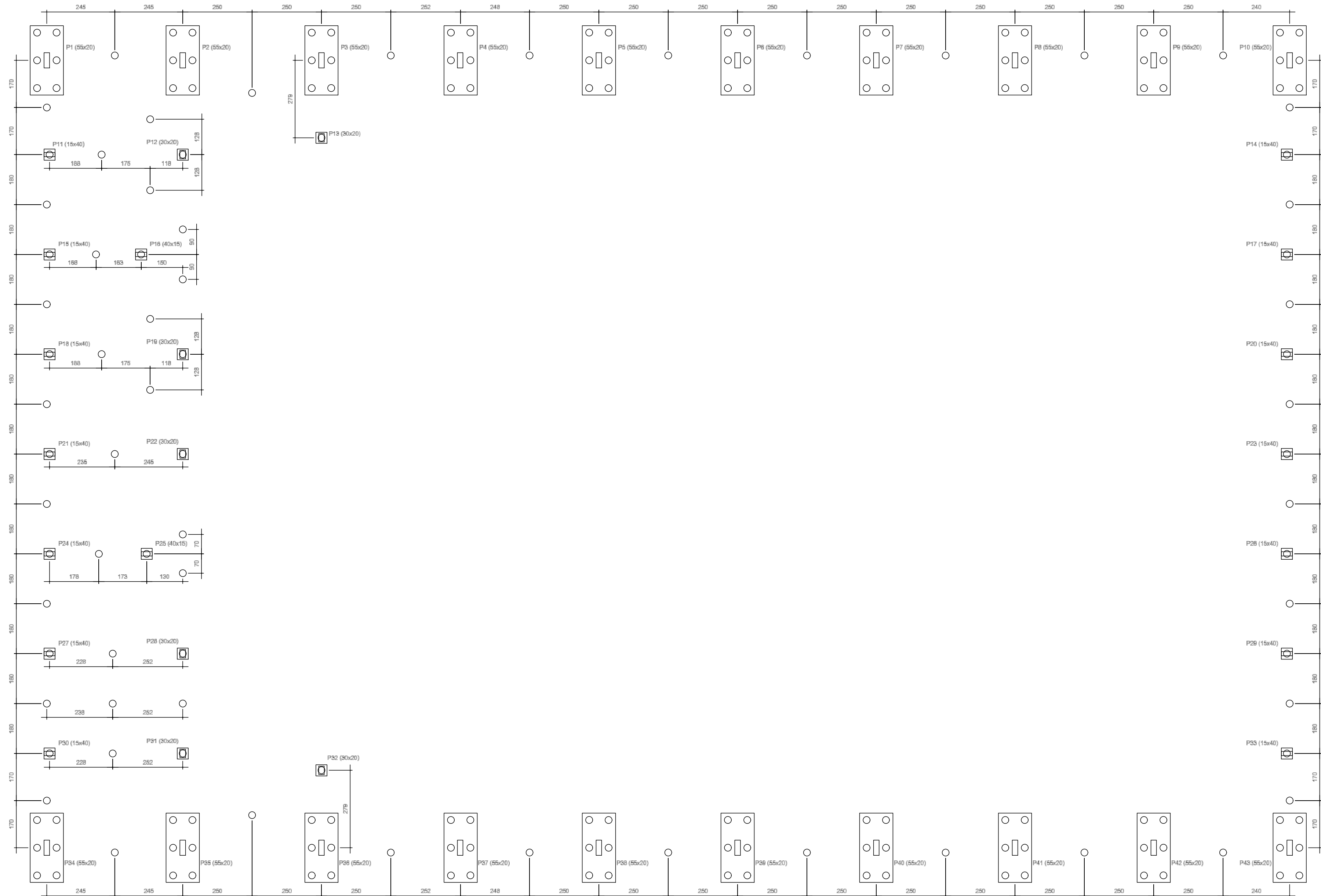
Concreto Vigas: C25, volume total (1,20m³)



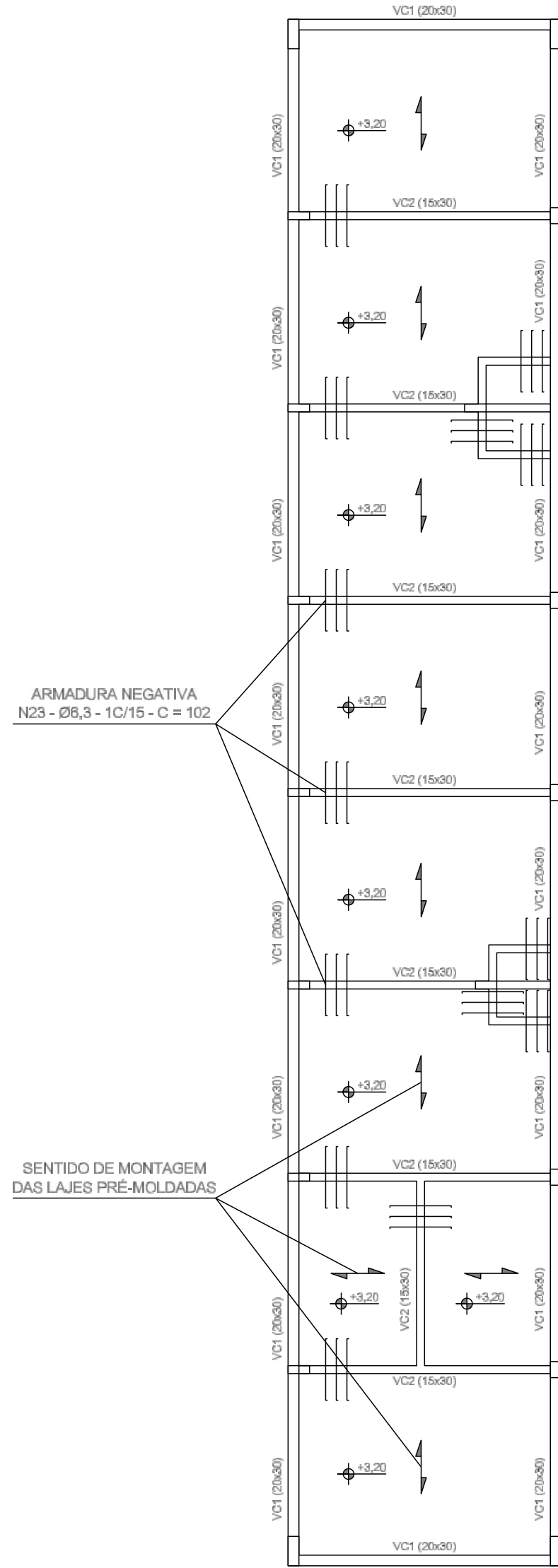
DETALHE DA LAJE SEM ESCALA

DETALHE DA LIGAÇÃO DA LAJE x VIGA/CINTA SEM ESCALA





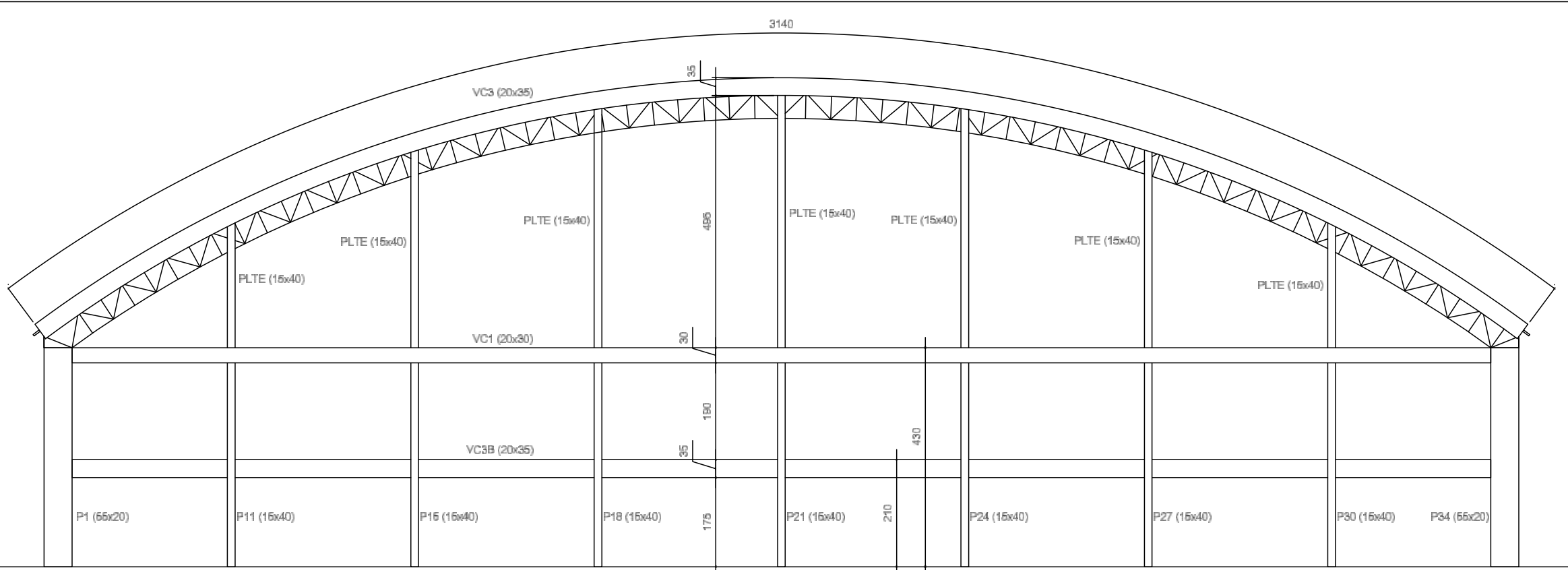
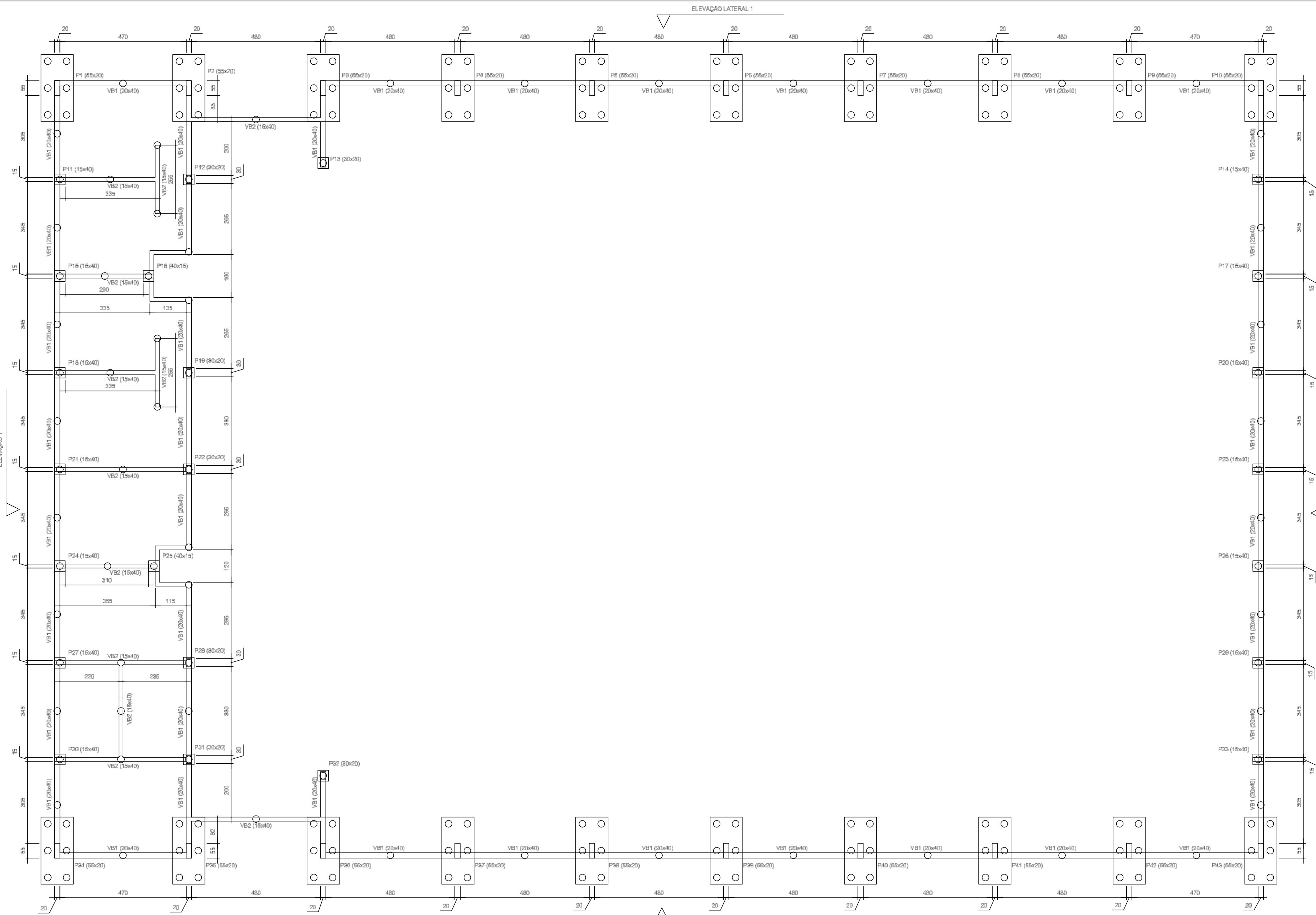
LOCAÇÃO DAS ESTACAS E PILARES
Escala - 1:100



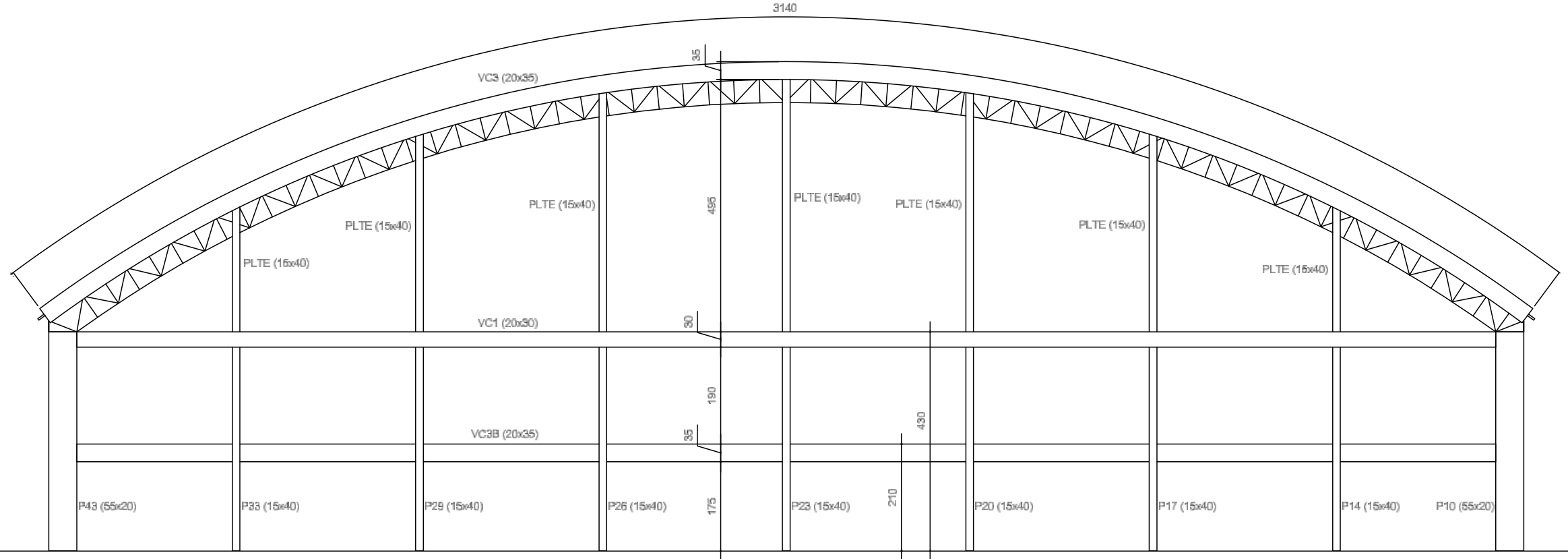
FORMA DOS VESTIÁRIOS E INSTALAÇÕES SANITÁRIAS
Escala - 1:100

NOTAS GERAIS:

- 1) PROJETO DE ACORDO COM A NORMA NBR-6118 (PROJETO E EXECUÇÃO DE ESTRUTURAS DE CONCRETO ARMADO) E NBR 6122 (PROJETO E EXECUÇÃO DE FUNDAÇÕES);
- 2) CONCRETO ADOTADO: $f_{ck} = 20$ MPa (PARA VIGAS E PILARES)
 $f_{ck} = 18$ MPa (PARA BLOCOS E ESTACAS)
- 3) VERIFICAR AS MEDIDAS NA OBRA;
- 4) TODAS AS MEDIDAS ESTÃO EM CENTÍMETROS;
- 5) É DE RESPONSABILIDADE DO FABRICANTE, A VERIFICAÇÃO DOS QUANTITATIVOS DE MATERIAIS ANTES DA ELABORAÇÃO DA PROPOSTA;
- 6) TODA E QUALQUER ALTERAÇÃO NA ESTRUTURA, COMO MUDANÇA DE BITOLAS, DEVERÃO SER AUTORIZADAS PELO PROJETISTA;
- 7) ANTES DA CONCRETAGEM MOLHAR BEM AS FORMAS E CONSERVAR ÚMIDA AS PARTES CONCRETADAS POR PELO MENOS 7 DIAS;
- 8) DEVERÃO SER COLOCADAS AS ARMADURAS ADICIONAIS (MALHAS) POR SOBRE AS LAJES ANTES DA CONCRETAGEM DAS MESMAS;
- 9) UTILIZAR ESPAÇADORES PLÁSTICOS OU DE CONCRETO NAS LAJES, VIGAS E PILARES;
- 10) EXECUTAR LASTRO DE CONCRETO MAGRO DE 5 cm EM TODOS OS BLOCOS DE FUNDAÇÃO, COBRIMENTO DAS ARMADURAS DE LAJES, BLOCOS, VIGAS E PILARES SERÁ DE 25 mm;
- 11) EM CASO DE DÚVIDAS, CONSULTAR O PROJETISTA.

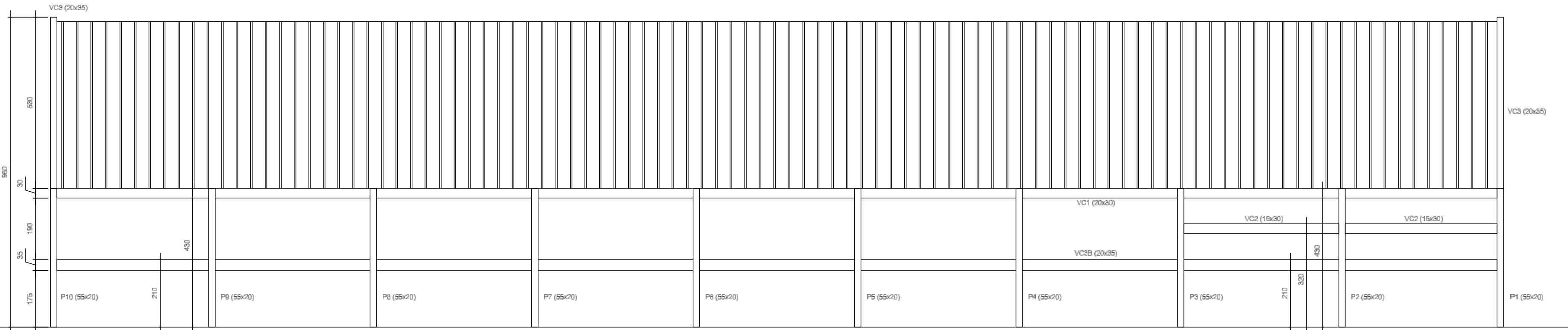


ELEVÇÃO 1
Escala - 1:100

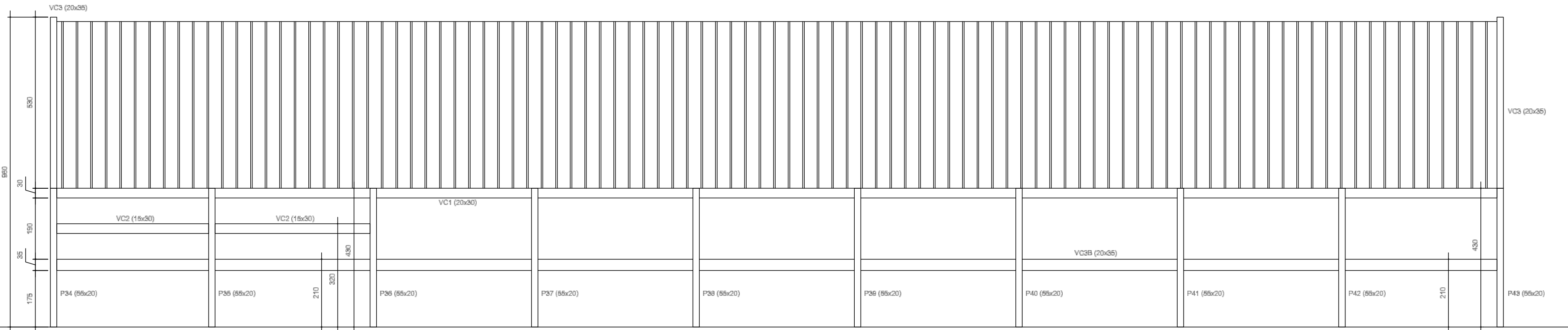


ELEVÇÃO 2
Escala - 1:100

FORMAS DOS BALDRAMES
Escala - 1:100



ELEVÇÃO LATERAL 1
Escala - 1:100



ELEVÇÃO LATERAL 2
Escala - 1:100

NOTAS GERAIS:

- 1) PROJETO DE ACORDO COM A NORMA NBR-6118 (PROJETO E EXECUÇÃO DE ESTRUTURAS DE CONCRETO ARMADO) E NBR 6122 (PROJETO E EXECUÇÃO DE FUNDAÇÕES);
- 2) CONCRETO ADOTADO: $f_{ck} = 20$ MPa (PARA VIGAS E PILARES)
 $f_{ck} = 18$ MPa (PARA BLOCOS E ESTACAS)
- 3) VERIFICAR AS MEDIDAS NA OBRA;
- 4) TODAS AS MEDIDAS ESTÃO EM CENTÍMETROS;
- 5) É DE RESPONSABILIDADE DO FABRICANTE, A VERIFICAÇÃO DOS QUANTITATIVOS DE MATERIAIS ANTES DA ELABORAÇÃO DA PROPOSTA;
- 6) TODA E QUALQUER ALTERAÇÃO NA ESTRUTURA, COMO MUDANÇA DE BITOLAS, DEVERÃO SER AUTORIZADAS PELO PROJETISTA;
- 7) ANTES DA CONCRETAGEM MOLHAR BEM AS FORMAS E CONSERVAR ÚMIDA AS PARTES CONCRETADAS POR PELO MENOS 7 DIAS;
- 8) DEVERÃO SER COLOCADAS AS ARMADURAS ADICIONAIS (MALHAS) POR SOBRE AS LAJES ANTES DA CONCRETAGEM DAS MESMAS;
- 9) UTILIZAR ESPAÇADORES PLÁSTICOS OU DE CONCRETO NAS LAJES, VIGAS E PILARES;
- 10) EXECUTAR LASTRO DE CONCRETO MAGRO DE 5 cm EM TODOS OS BLOCOS DE FUNDAÇÃO, COBRIMENTO DAS ARMADURAS DE LAJES, BLOCOS, VIGAS E PILARES SERÁ DE 25 mm;
- 11) EM CASO DE DÚVIDAS, CONSULTAR O PROJETISTA.



INSTITUTO FEDERAL
Sertão Pernambucano

INSTITUTO FEDERAL DE
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

YCAE:
**PROJETO DE ESTRUTURA METÁLICA DO
CAMPUS ARARIPINA DO IF Sertão PE**

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO
FORMAS DOS BALDRAMES E ELEVÇÕES (GINÁSIO)

ASSINATURACARIMBO - DIREÇÃO GERAL

ASSINATURACARIMBO - RESPONSÁVEL TÉCNICO

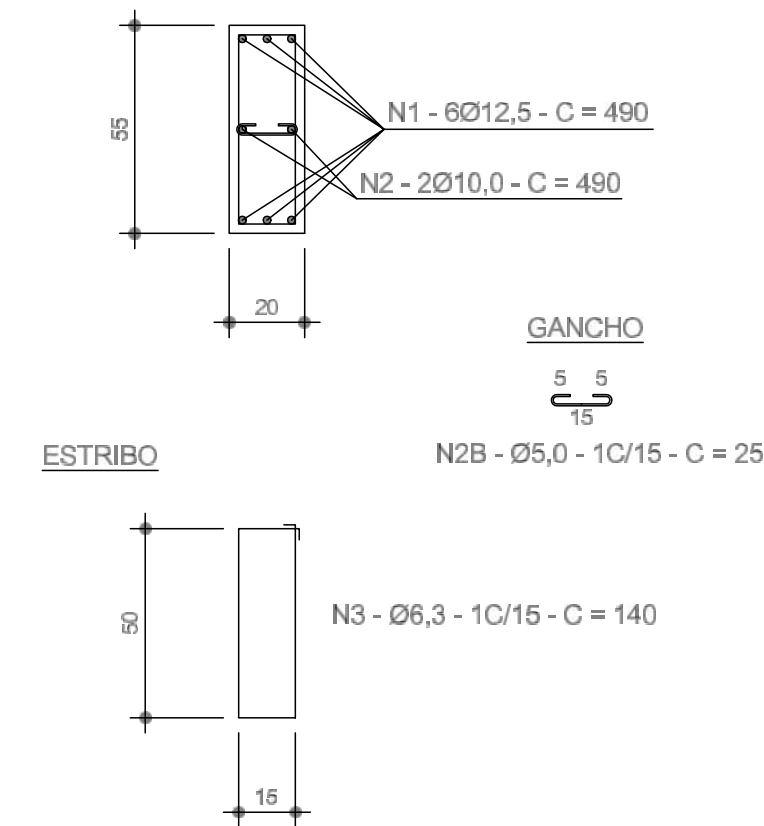
ESCALA:
INDICADA

DATA:
ABRIL/2025

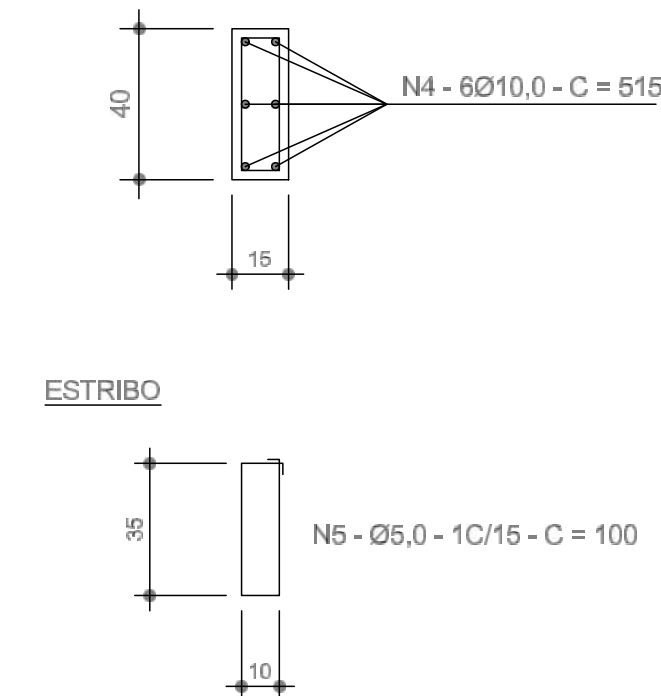
FRANCA:
02/03

Ebson Alves da Silva - CREA PE 055750

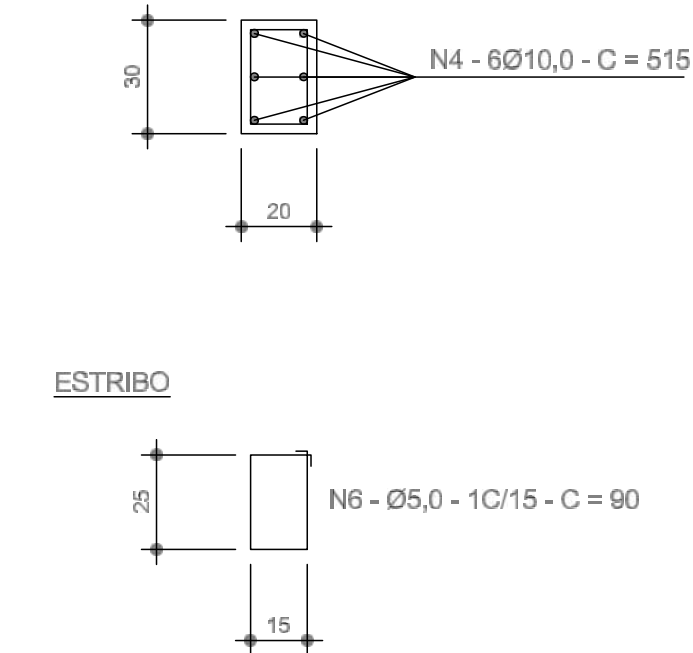
PILARES
Escala - 1:20
P1 A P10 E P34 A P43
(20x55) (20x)



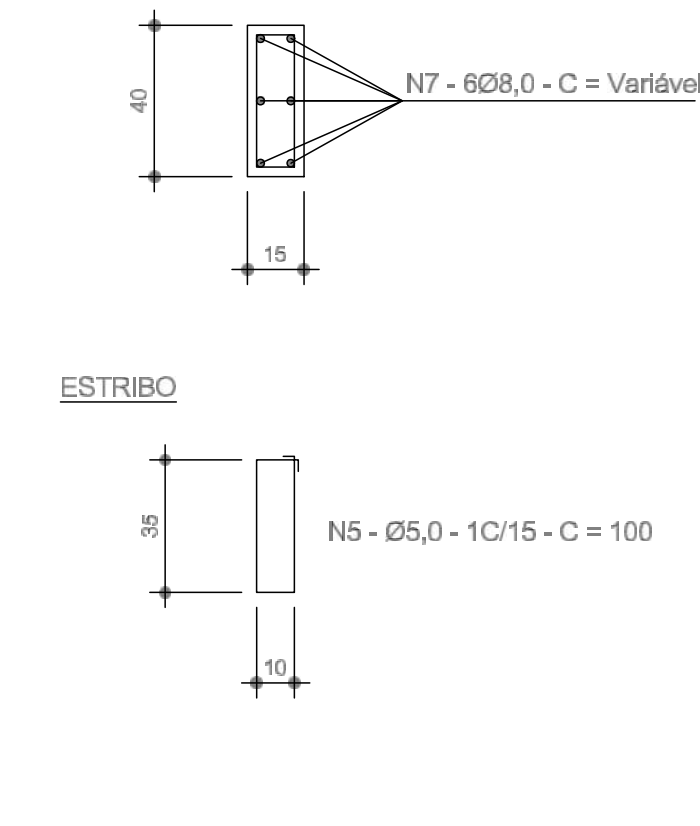
P11-P14-P15-P16-P17-P18-P20-
P21-P23-P24-P25-P26-P27-
P29-P30-P33 (15x40) (16x)



P12-P13-P19-P22
-P28-P31-P32 (20x30) (7x)

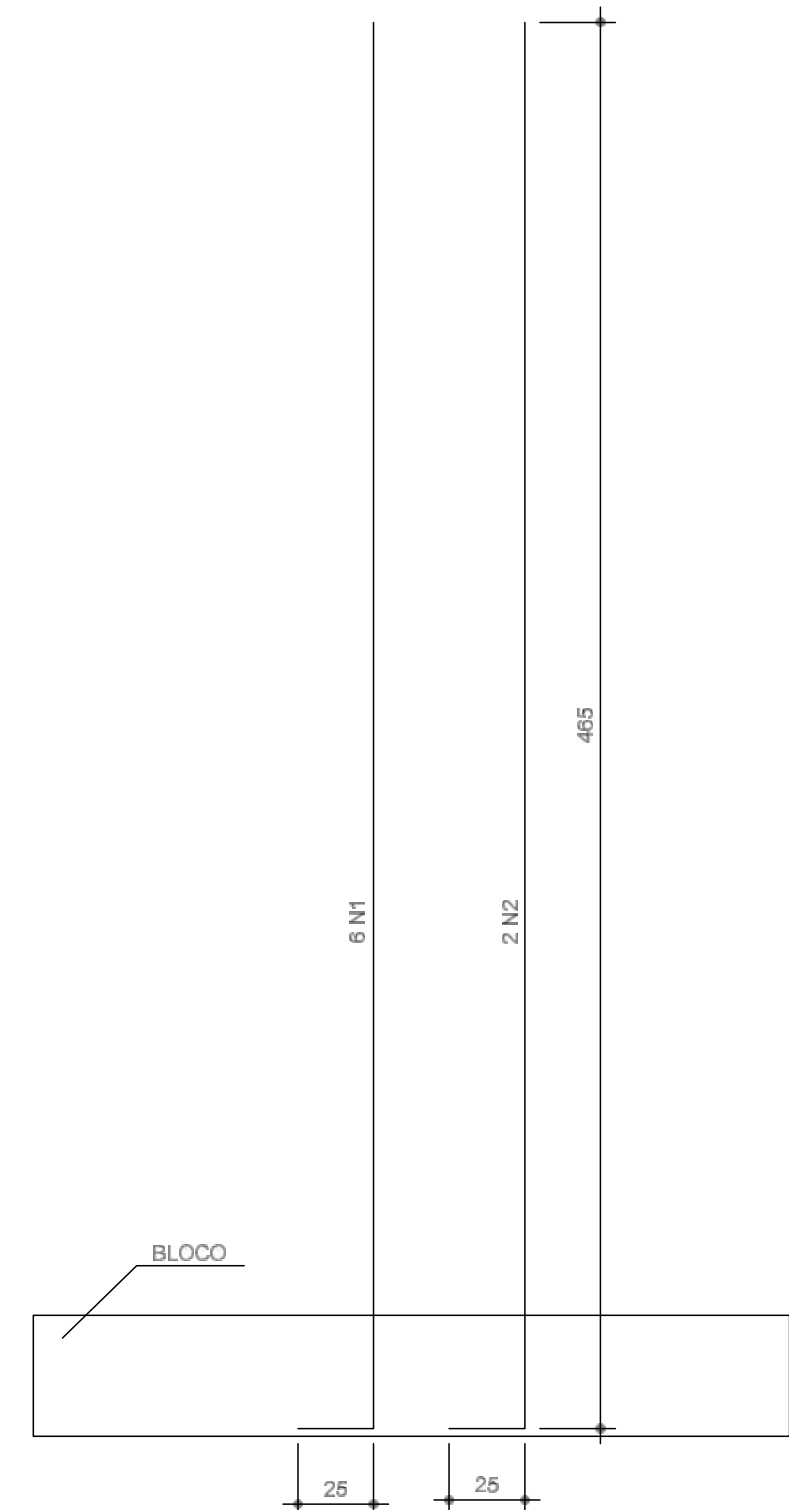


PILARETES
PLTE(15x40) (14x)



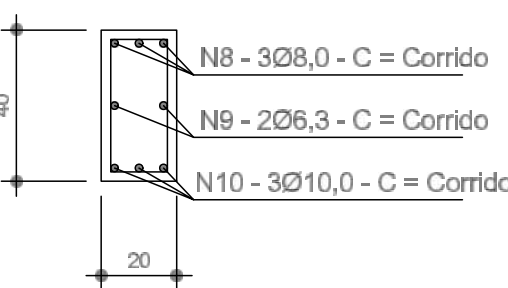
ELEVAÇÃO DAS ARMADURAS
Escala - 1:25

P1 A P10 E P34 A P43 (20x55) (20x)

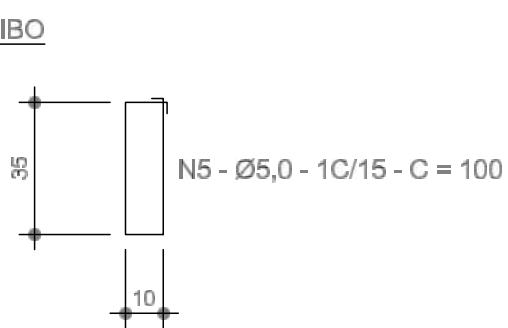
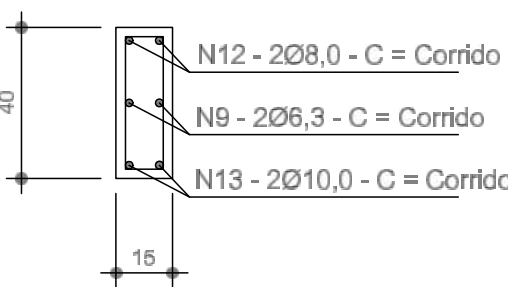


VIGAS BALDRAMES
Escala - 1:20

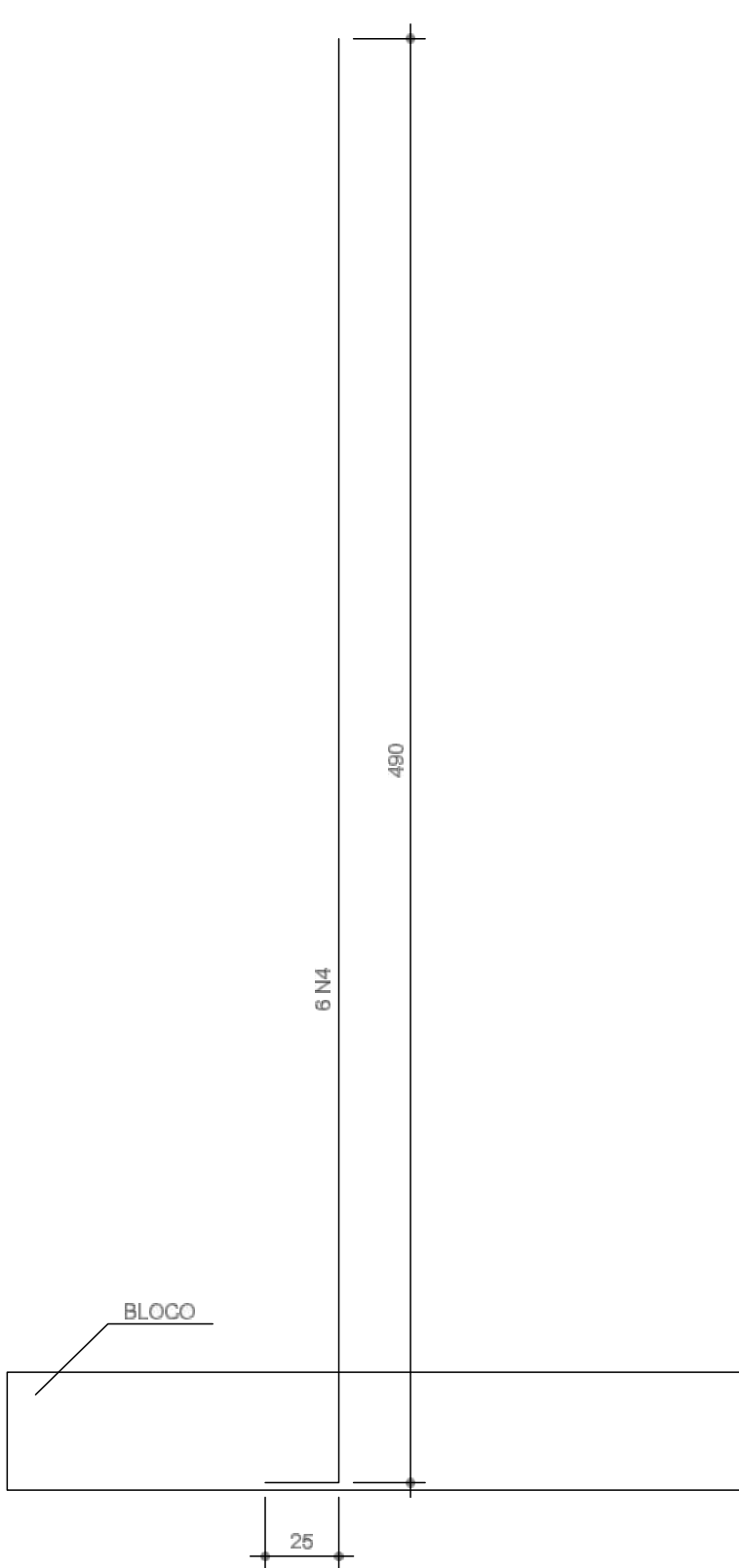
VB1 (20x40)



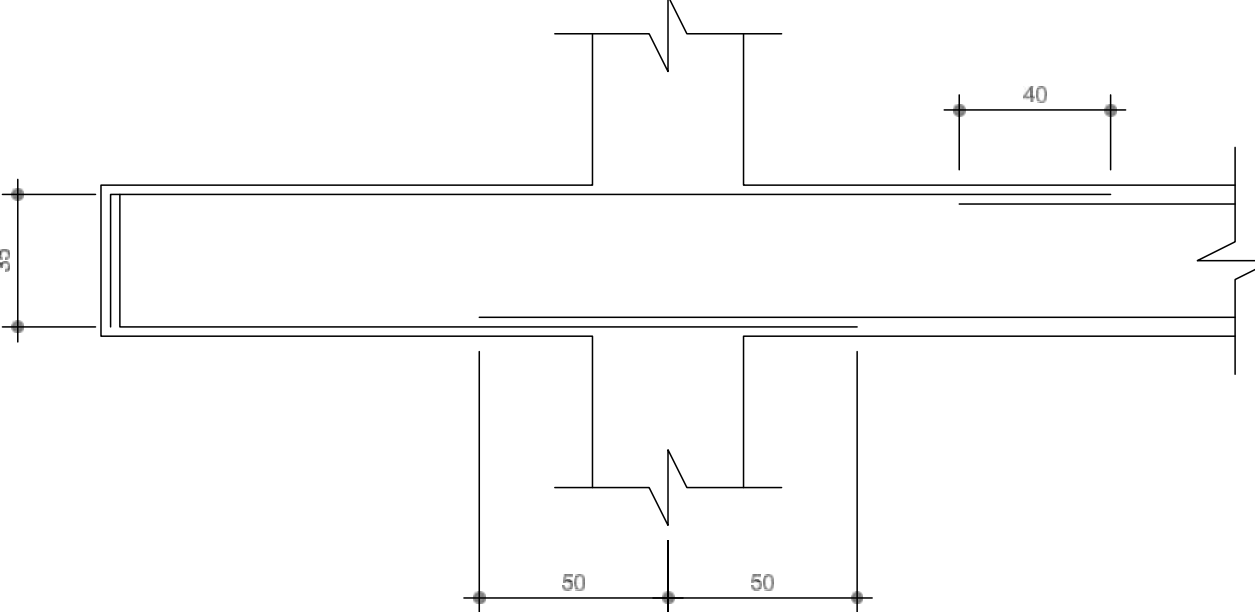
VB2 (15x40)



P11-P14-P15-P16-P17-P18-P20-
P21-P23-P24-P25-P26-P27-
P29-P30-P33 (15x40) (16x)
E
P12-P13-P19-P22
-P28-P31-P32 (20x30) (7x)

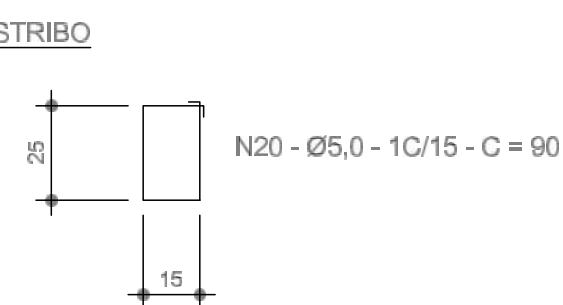
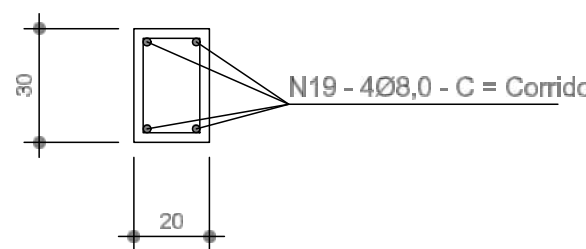


DETALHE PARA EXTREMIDADE E TRANSPASSES
DAS ARMADURAS NOS BALDRAMES
Escala - 1:20

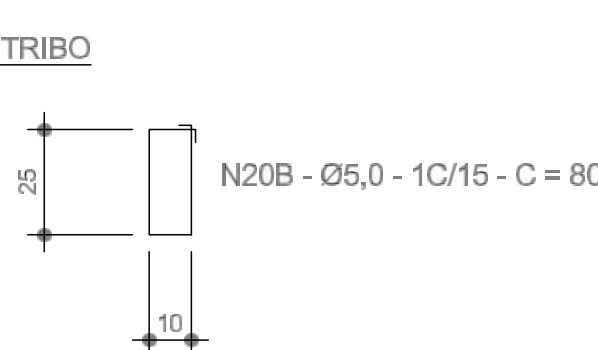
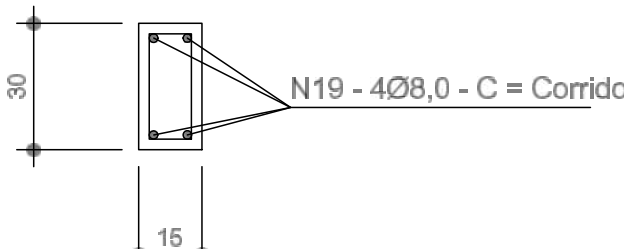


VIGAS CINTAS
Escala - 1:20

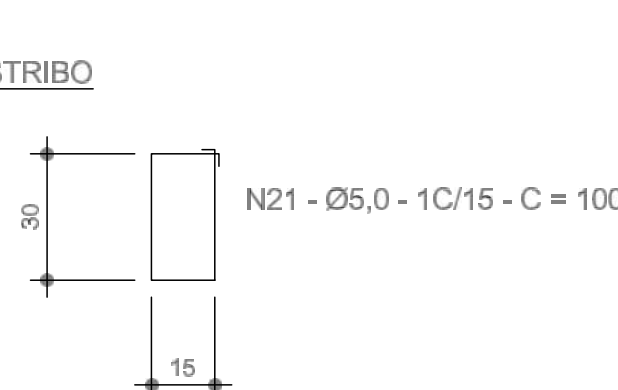
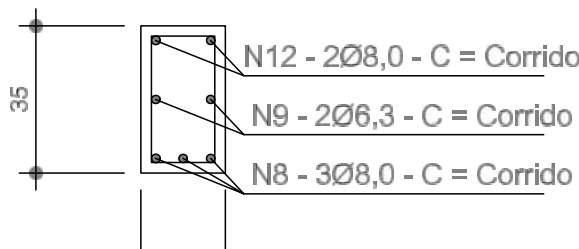
VC1 (20x30)
NÍVEL (+4,30m)



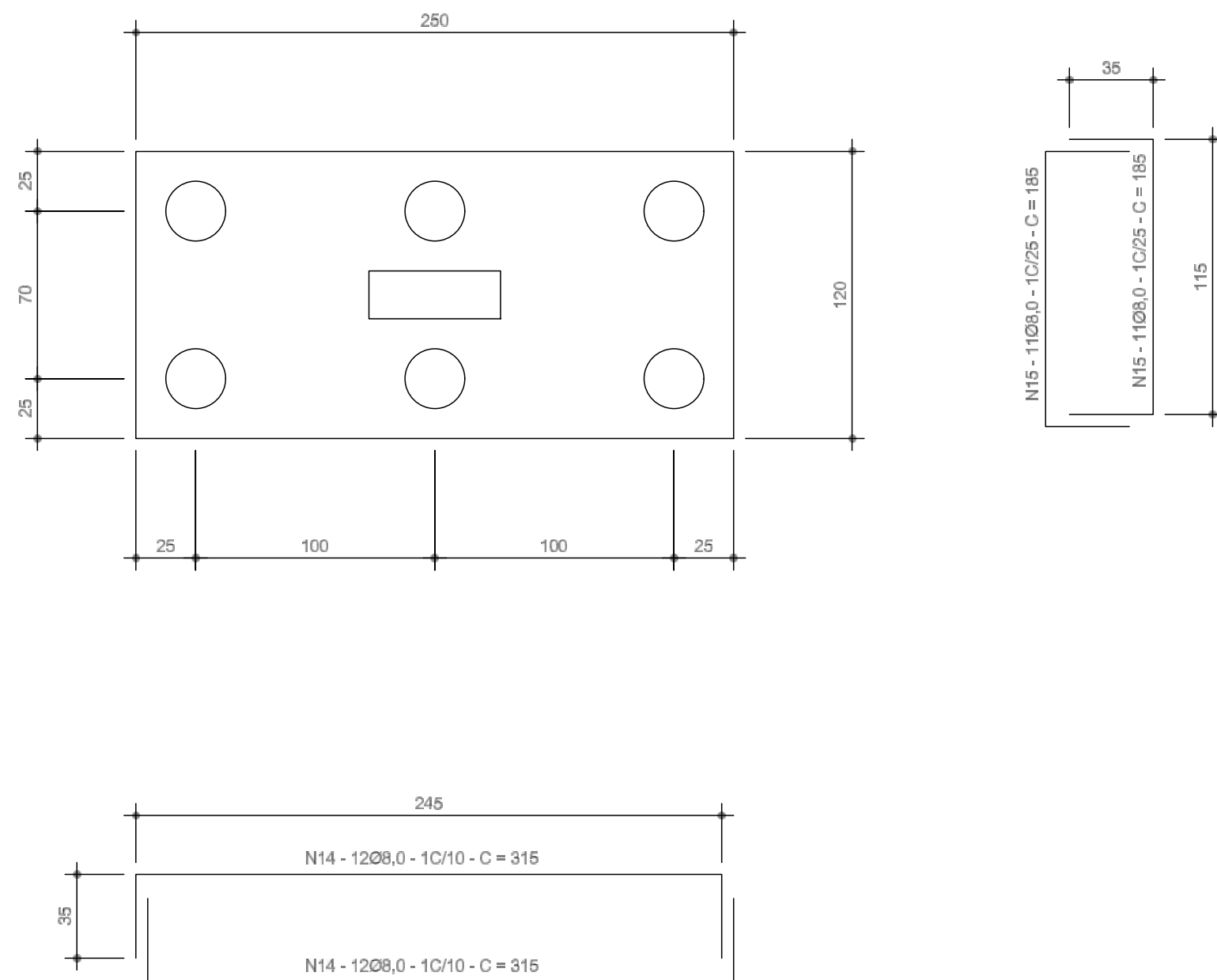
VC2 (15x30)
NÍVEL (+3,20m)



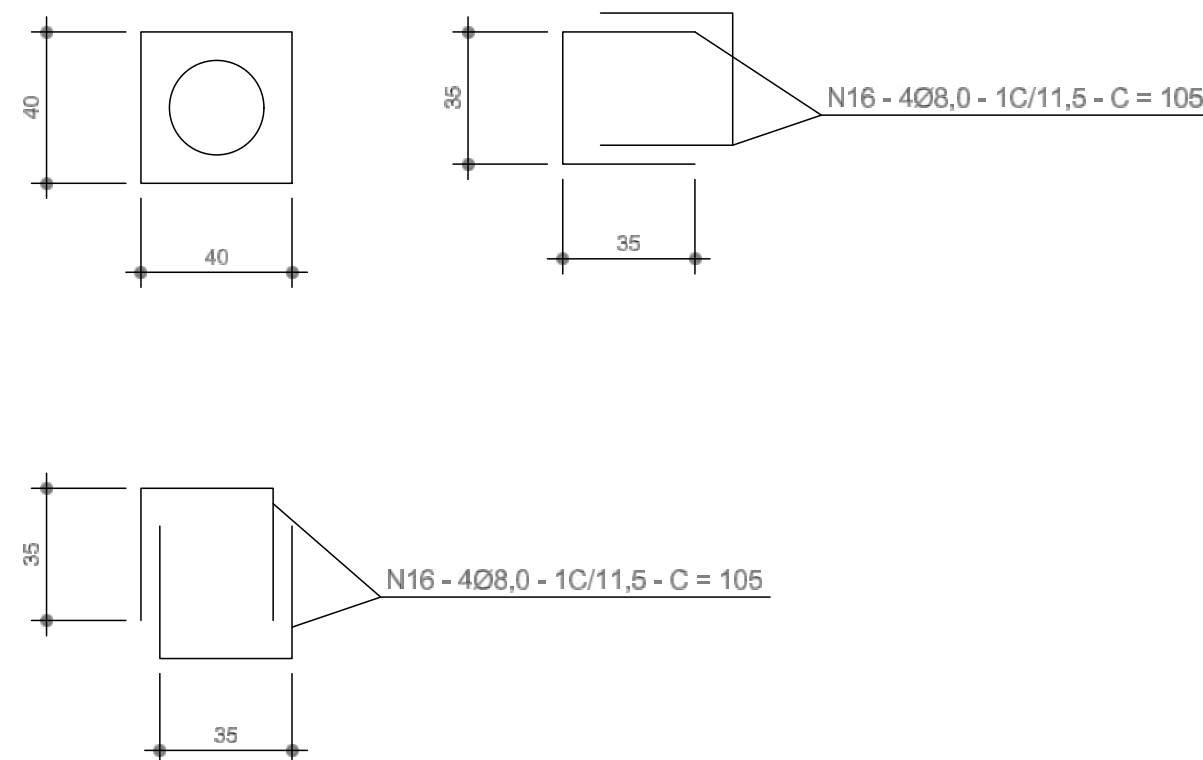
VC3 e VC3B (20x35)
NÍVEL (Variável) e (NÍVEL 2,10m)



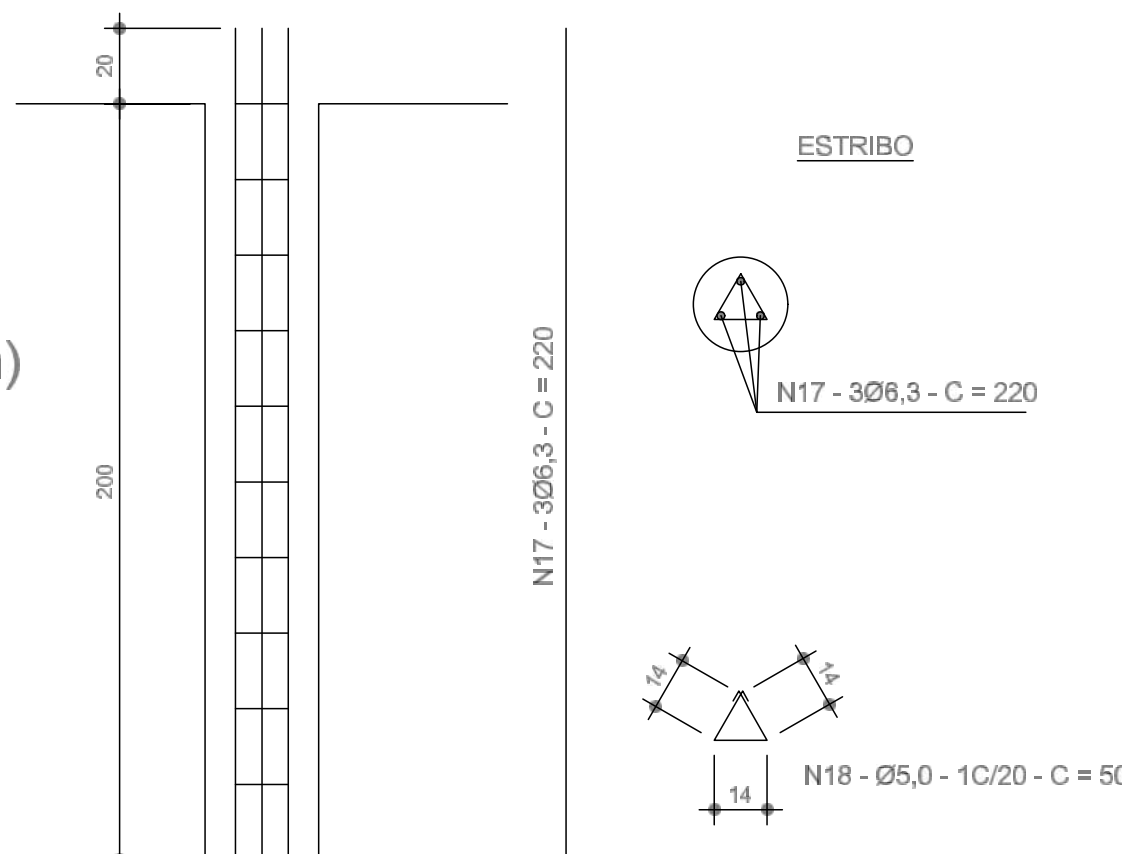
DETALHE DOS BLOCOS (120x250x40) cm (20x)
Escala - 1:25



DETALHE DOS BLOCOS (40X40X40)cm (23x)
Escala - 1:20



DETALHE DAS ESTACAS Ø25cm (185x)
Escala - 1:20



DETALHE DA ARMADURA
ADICIONAL NA CAPA DAS LAJES
Escala - 1:25

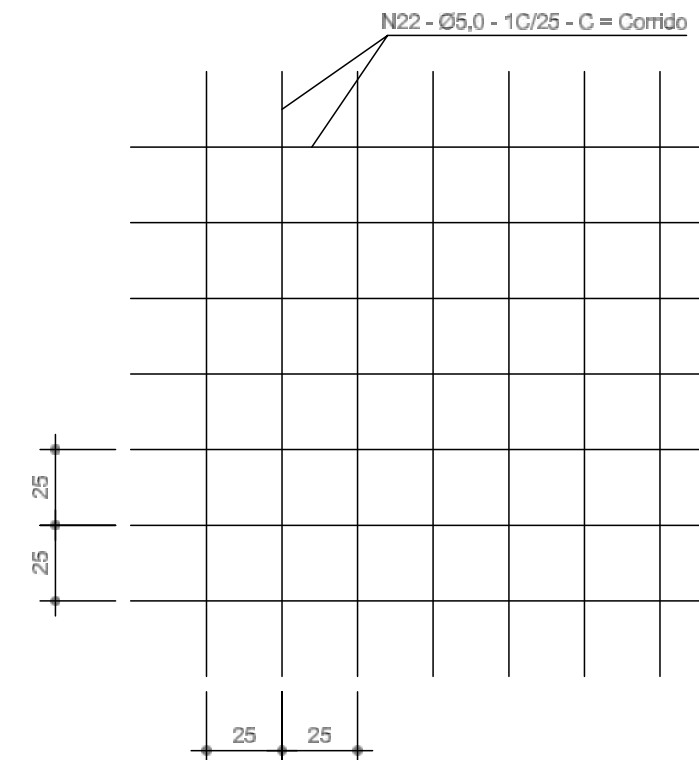


TABELA DE AÇO

N	Ø	QUANT.	COMP. (cm)
1	12,5	120	490
2	10,0	40	490
2B	5,0	580	25
3	6,3	580	140
4	10,0	96	515
5	5,0	1464	100
6	5,0	231	90
7	8,0	98	VARIÁVEL
8	8,0	9	CORRIDO
9	6,3	8	CORRIDO
10	10,0	3	CORRIDO
11	5,0	984	110
12	8,0	4	CORRIDO
13	10,0	2	CORRIDO
14	8,0	480	315
15	8,0	440	185
16	8,0	184	105
17	6,3	555	220
18	5,0	2035	50
19	8,0	8	CORRIDO
20	5,0	134	90
20B	5,0	134	80
21	5,0	2970	100
22	5,0		CORRIDO
23	6,3	330	102

RESUMO DE AÇO (+10%)

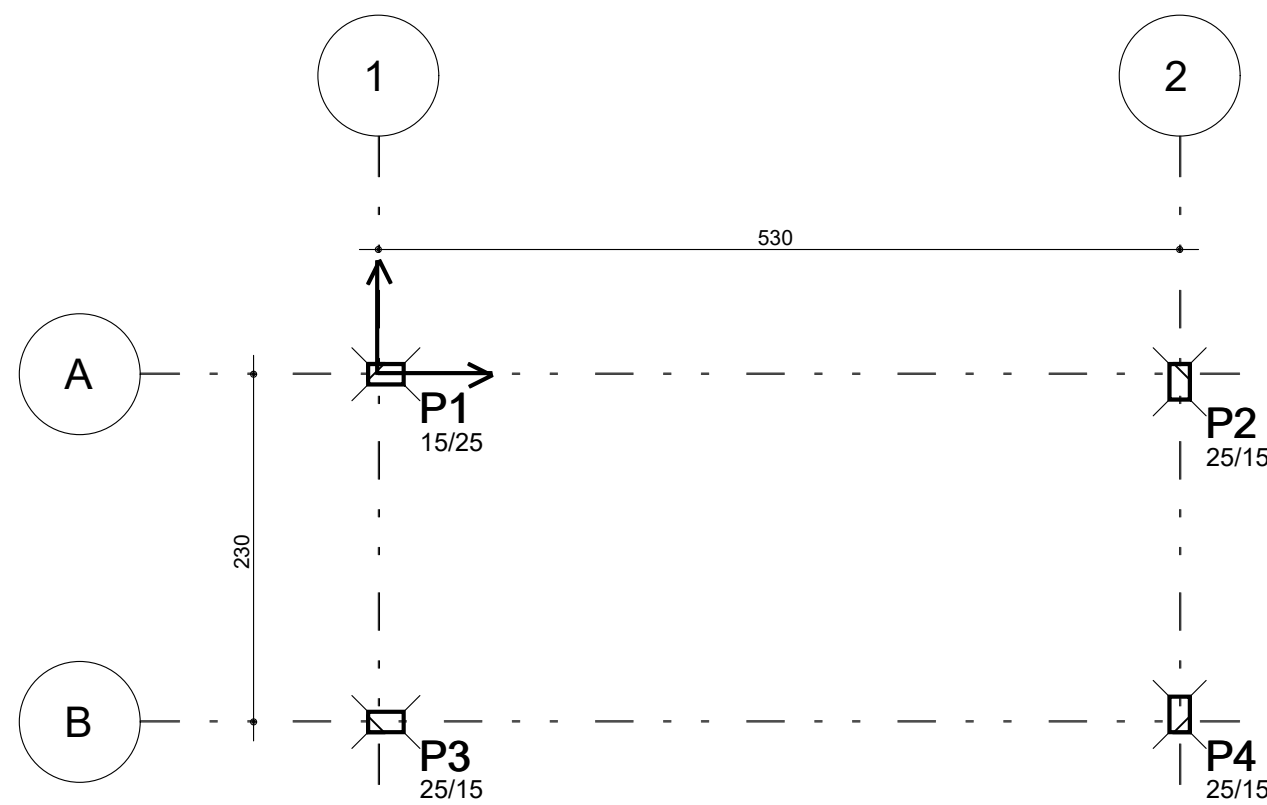
Ø	kg/m	C. Total	Peso
CA 60	4,2	0,11	—
	5,0	0,16	5850
	6,3	0,25	855
	8,0	0,40	530
CA 50 A	10,0	0,63	223
	12,5	1,00	647
	16,0	1,60	—
	20,0	2,50	—
TOTAL			8105 kg

NOTAS GERAIS:

- 1) PROJETO DE ACORDO COM A NORMA NBR-6118 (PROJETO E EXECUÇÃO DE ESTRUTURAS DE CONCRETO ARMADO) E NBR 6122 (PROJETO E EXECUÇÃO DE FUNDAÇÕES);
- 2) CONCRETO ADOTADO: $f_{ck} = 20$ MPa (PARA VIGAS E PILARES) $f_{ck} = 18$ MPa (PARA BLOCOS E ESTACAS)
- 3) VERIFICAR AS MEDIDAS NA OBRA;
- 4) TODAS AS MEDIDAS ESTÃO EM CENTÍMETROS;
- 5) É DE RESPONSABILIDADE DO FABRICANTE, A VERIFICAÇÃO DOS QUANTITATIVOS DE MATERIAIS ANTES DA ELABORAÇÃO DA PROPOSTA;
- 6) TODA E QUALQUER ALTERAÇÃO NA ESTRUTURA, COMO MUDANÇA DE BITOLAS, DEVERÃO SER AUTORIZADAS PELO PROJETISTA;
- 7) ANTES DA CONCRETAGEM MOLHAR BEM AS FORMAS E CONSERVAR ÚMIDA AS PARTES CONCRETADAS POR PELO MENOS 7 DIAS;
- 8) DEVERÃO SER COLOCADAS AS ARMADURAS ADICIONAIS (MALHAS) POR SOBRE AS LAJES ANTES DA CONCRETAGEM DAS MESMAS;
- 9) UTILIZAR ESPAÇADORES PLÁSTICOS OU DE CONCRETO NAS LAJES, VIGAS E PILARES;
- 10) EXECUTAR LASTRO DE CONCRETO MAGRO DE 5 cm EM TODOS OS BLOCOS DE FUNDAÇÃO, COBRIMENTO DAS ARMADURAS DE LAJES, BLOCOS, VIGAS E PILARES SERÁ DE 25 mm;
- 11) EM CASO DE DÚVIDAS, CONSULTAR O PROJETISTA.

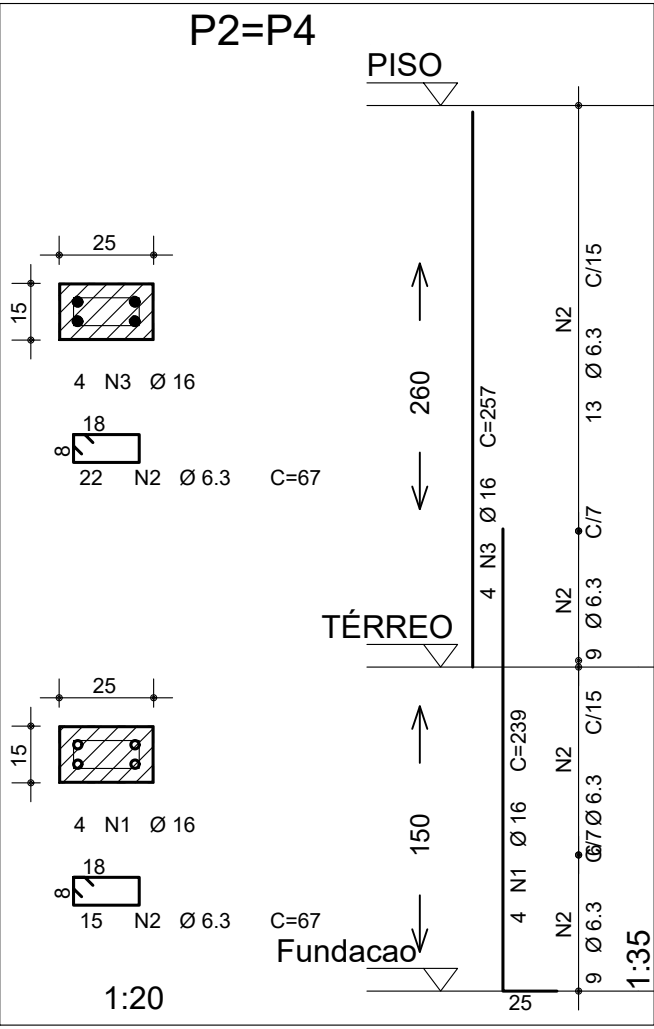
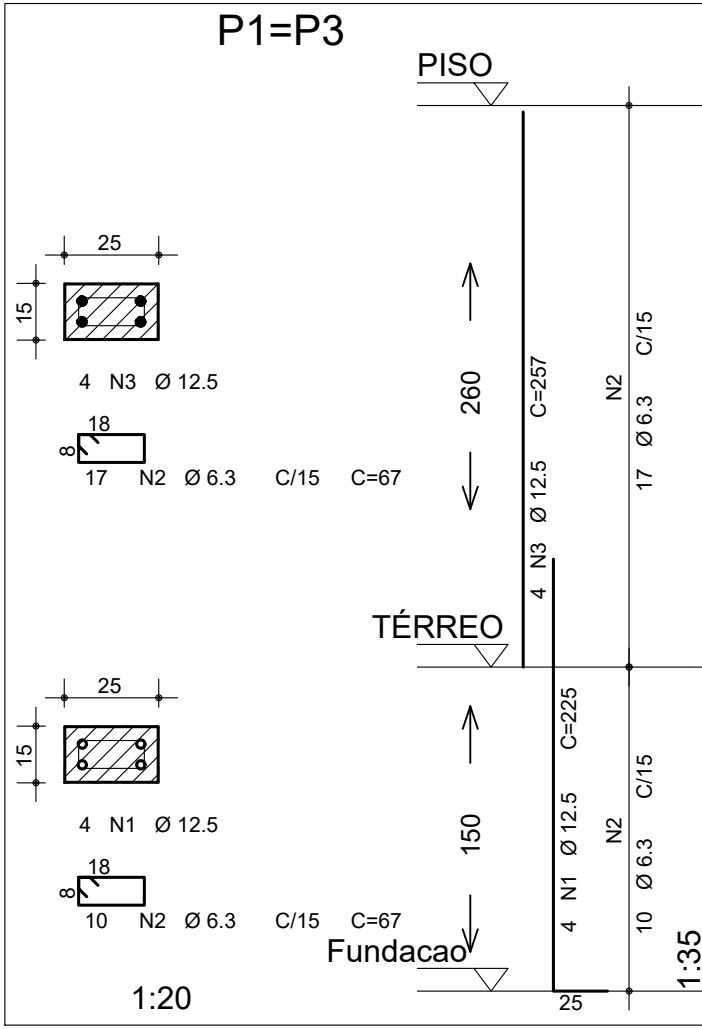
LOCAÇÃO DOS PILARES.

Esc.: 1/50



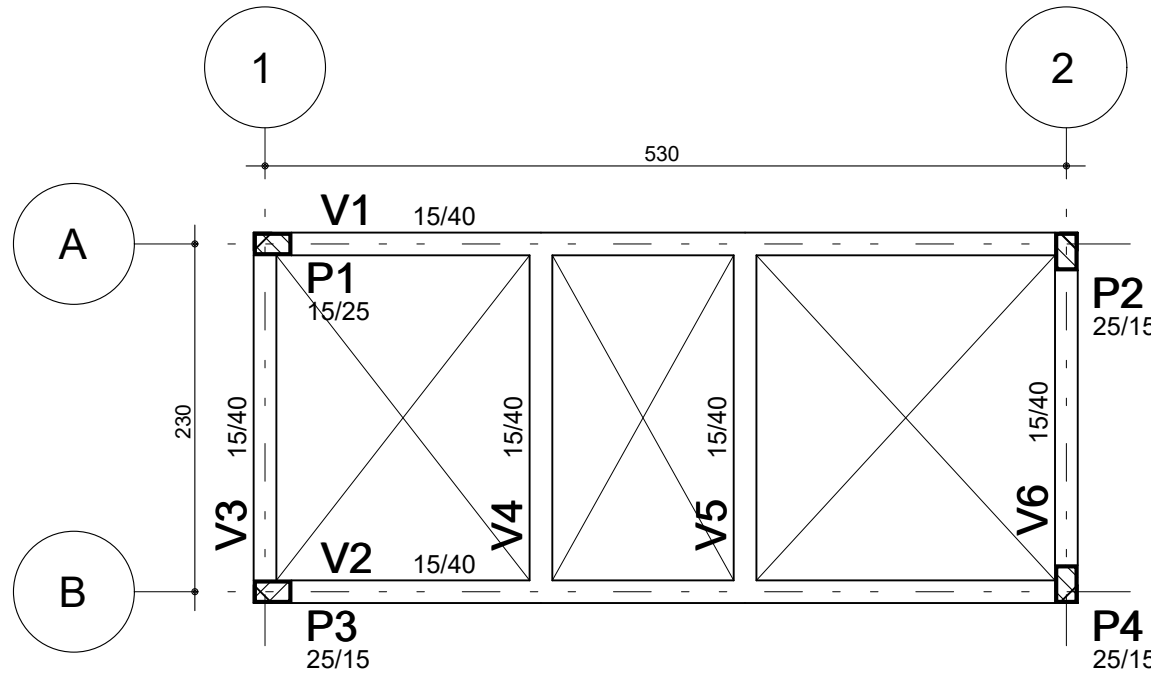
PILARES	REAÇÕES (ton, m.ton)				
	Fz	Fx	Fy	Mx	My
P1	6,8	1,2	0,8	0,7	0,7
P2	6,8	1,0	0,8	0,9	0,7
P3	6,7	1,2	0,8	0,7	0,7
P4	6,7	1,0	0,8	0,9	0,7

Baricentros de pilares		
Pilar	X (cm)	Y (cm)
P1	5,0	0,0
P2	530,0	-5,0
P3	5,0	-230,0
P4	530,0	-225,0

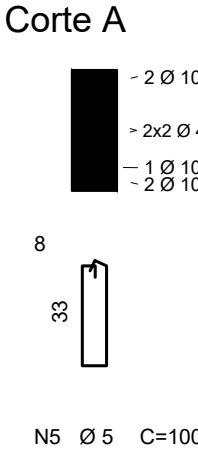
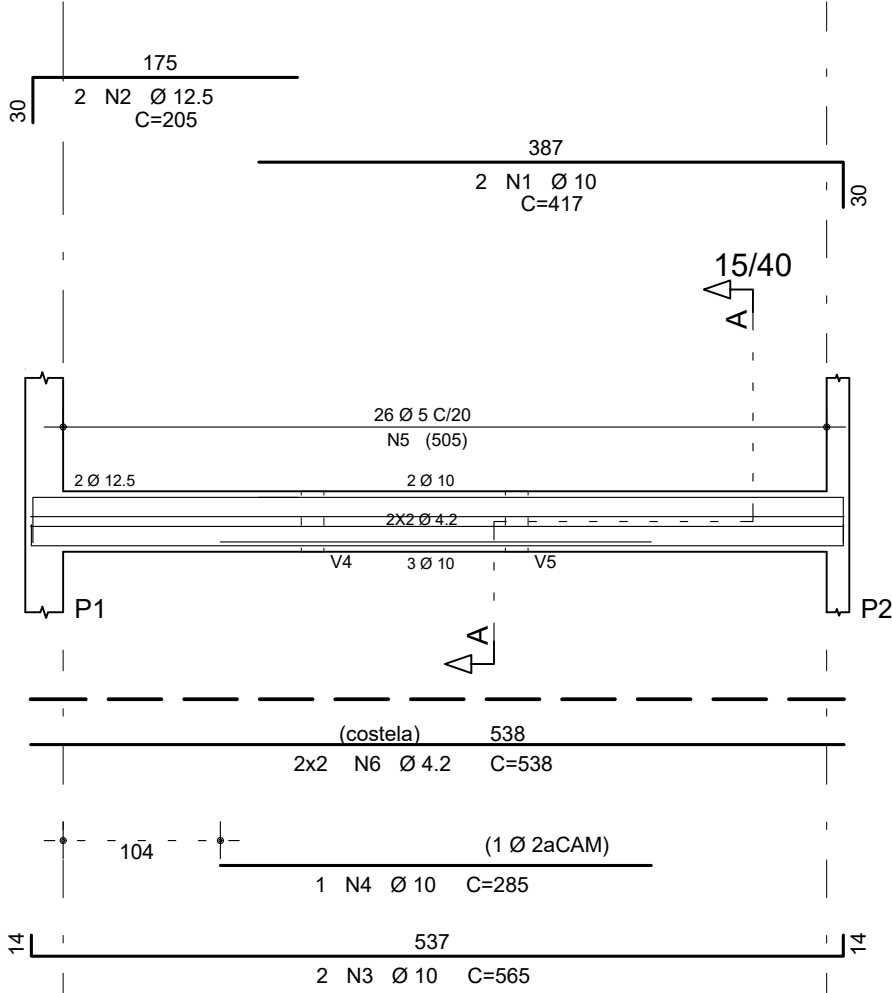


FÔRMA DO CINTAMENTO.

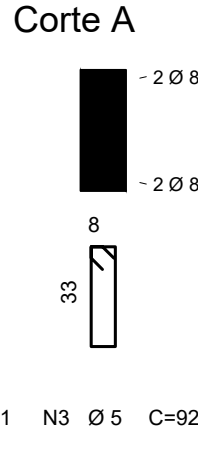
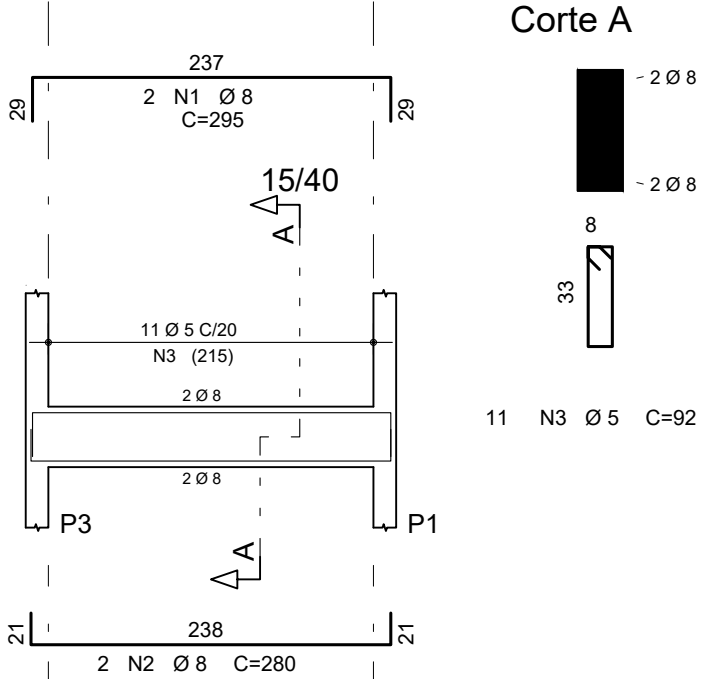
Esc.: 1/50



V1=V2 (CINTAMENTO)

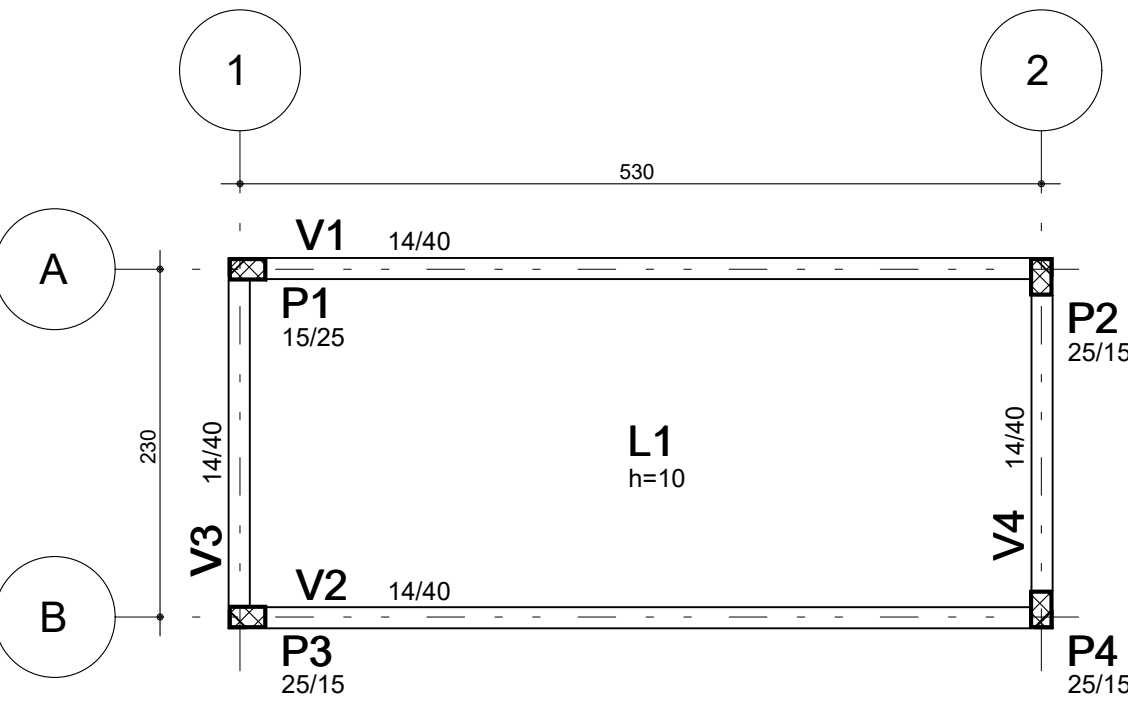


V3 a V6 (CINTAMENTO)



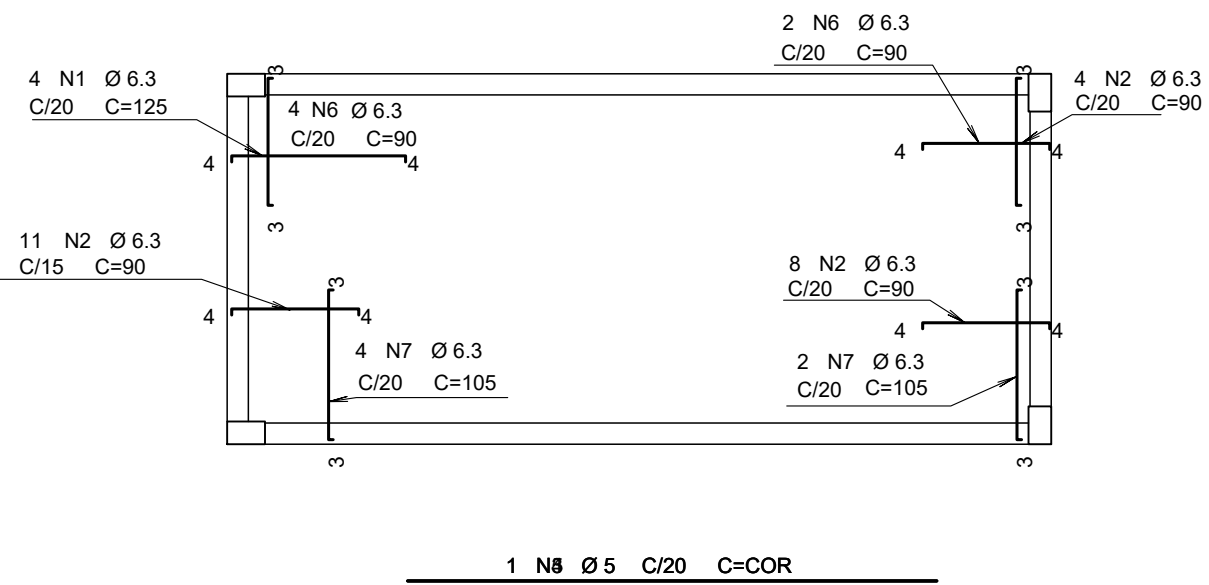
FÔRMA DO FORRO.

Esc.: 1/50

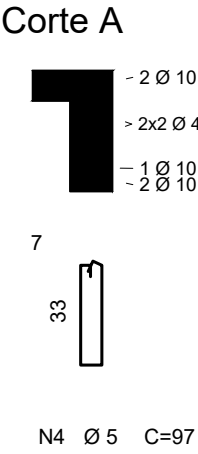
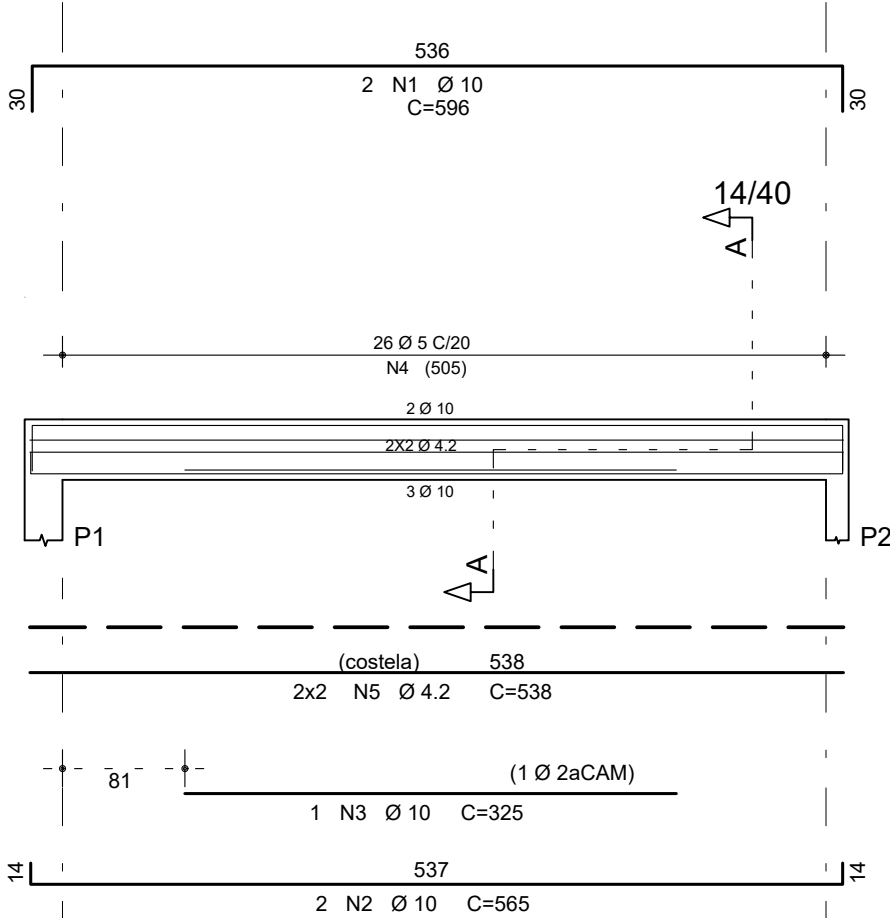


ARMAÇÃO NEGATIVA - FORRO.

Esc.: 1/50

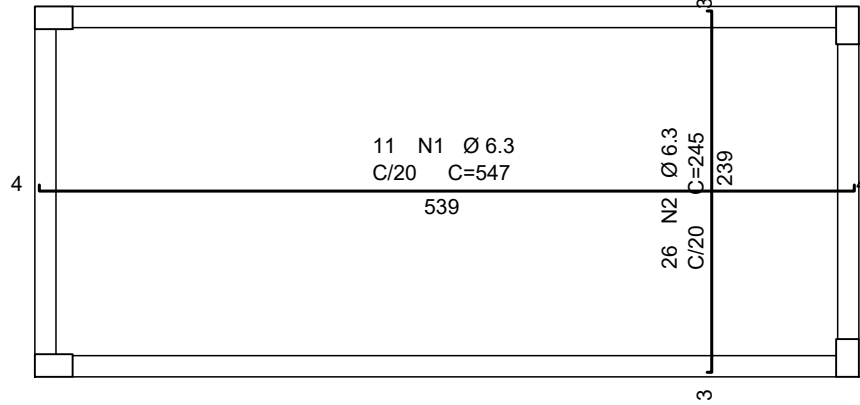


V1=V2 (FORRO)

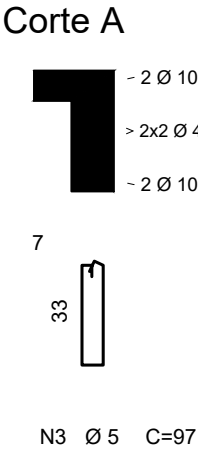
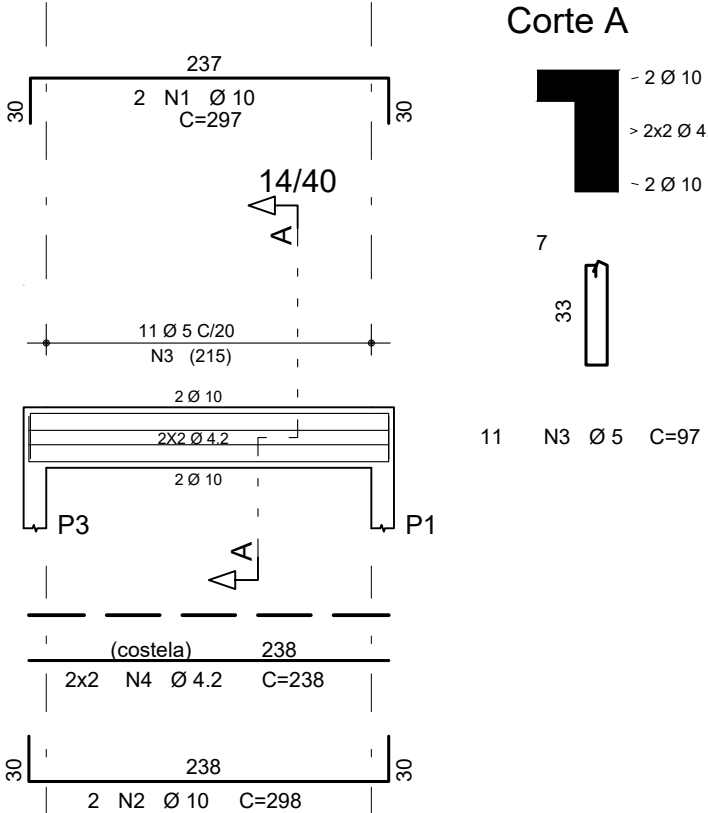


ARMAÇÃO POSITIVA - FORRO.

Esc.: 1/50



V3=V4 (FORRO)



ACO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	TOTAL (cm)
P1=P3 (X2)					
50A	1	12,5	8	225	1800
50A	2	6,3	54	67	3618
50A	3	12,5	8	257	2056
P2=P4 (X2)					
50A	1	16	8	239	1912
50A	2	6,3	74	67	4958
50A	3	16	8	257	2056
ARMAÇÃO NEGATIVA - FORRO.					
50A	1	6,3	4	125	500
50A	2	6,3	23	90	2070
60B	3	5	1	-CORR-	1281
60B	4	5	1	-CORR-	1542
60B	5	5	1	-CORR-	1652
50A	6	6,3	6	90	540
50A	7	6,3	6	105	630
ARMAÇÃO POSITIVA - FORRO.					
50A	1	6,3	11	547	6017
50A	2	6,3	26	245	6370
V1=V2 (CINTAMENTO) (X2)					
50A	1	10	4	417	1668
50A	2	12,5	4	205	820
50A	3	10	4	565	2260
50A	4	10	2	285	570
60B	5	5	52	100	5200
60B	6	4,2	8	538	4304
V1=V2 (FORRO) (X2)					
50A	1	10	4	596	2384
50A	2	10	4	565	2260
50A	3	10	2	325	650
60B	4	5	52	97	5044
60B	5	4,2	8	538	4304
V3 a V6 (CINTAMENTO) (X4)					
50A	1	8	8	295	2360
50A	2	8	8	280	2240
60B	3	5	44	92	4048
V3=V4 (FORRO) (X2)					
50A	1	10	4	297	1188
50A	2	10	4	298	1192
60B	3	5	22	97	2134
60B	4	4,2	8	238	1904

RESUMO AÇO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60B	4,2	105	11
60B	5	209	33
50A	6,3	247	62
50A	8	46	18
50A	10	122	77
50A	12,5	47	47
50A	16	40	63
Peso Total	60B =		45 kg
Peso Total	50A =		267 kg



INSTITUTO FEDERAL
Sertão Pernambucano

INSTITUTO FEDERAL DE
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Anísio de Lencastre, 240 | Centro
Petrolina/PE | CEP: 56.302-100

PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IF Sertão PE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:
FORMA E ARM. (GUARITA)

ASSINATURACARIMBO - DIREÇÃO GERAL:

ESCALA:
INDICADA

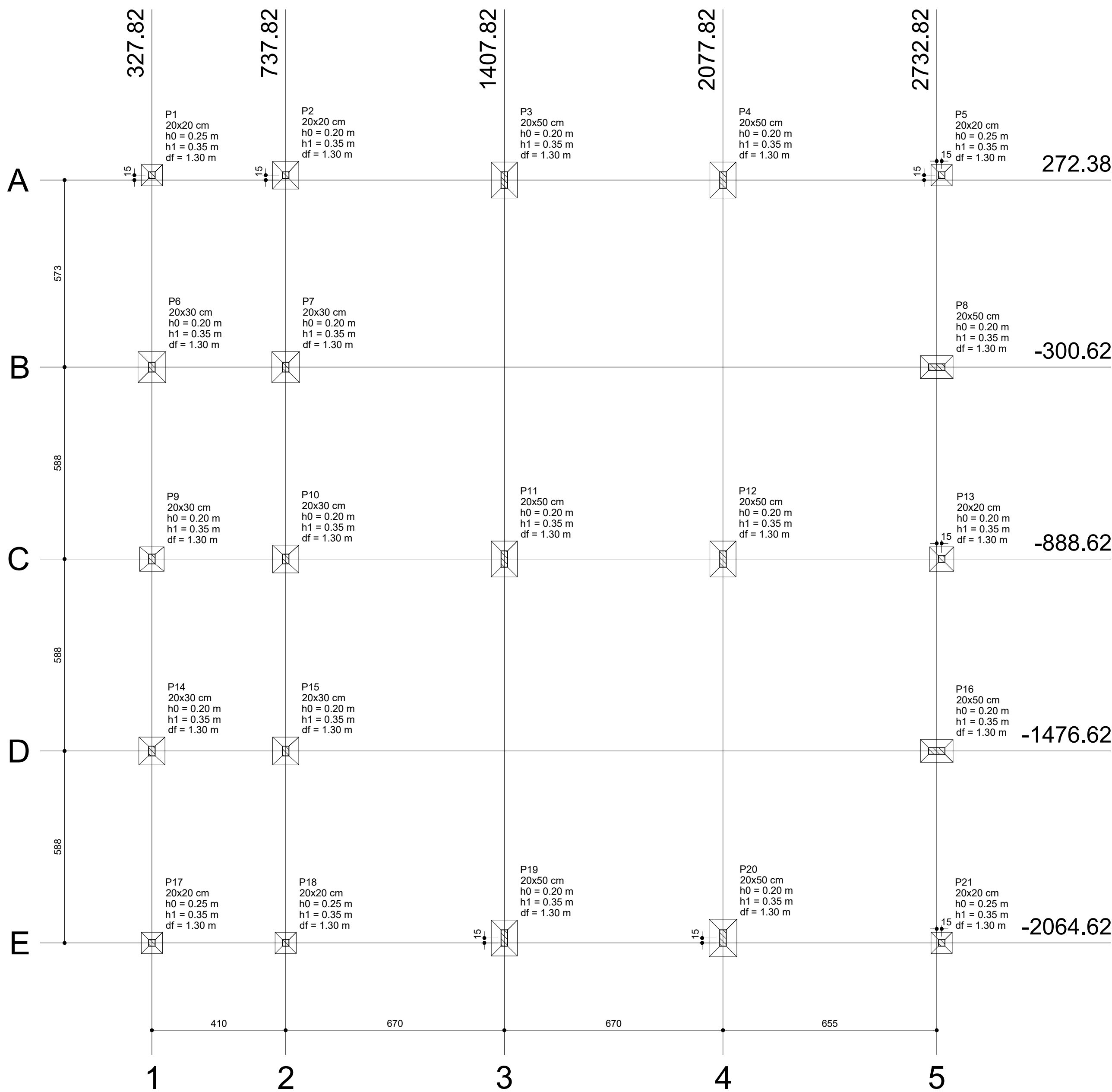
DATA:
ABRIL/2025

ASSINATURACARIMBO - RESPONSÁVEL TÉCNICO:

ASSINATURACARIMBO - PRONCH:

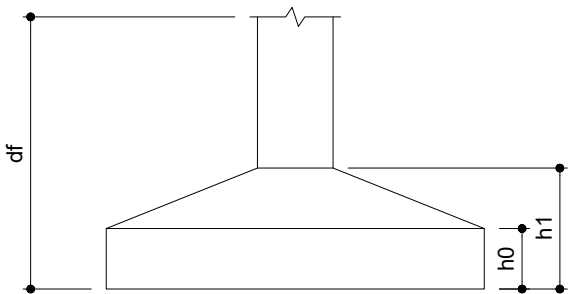
Eberson Alves da Silva - CREA BA 055750

01/01



Planta de localização
escala 1:100

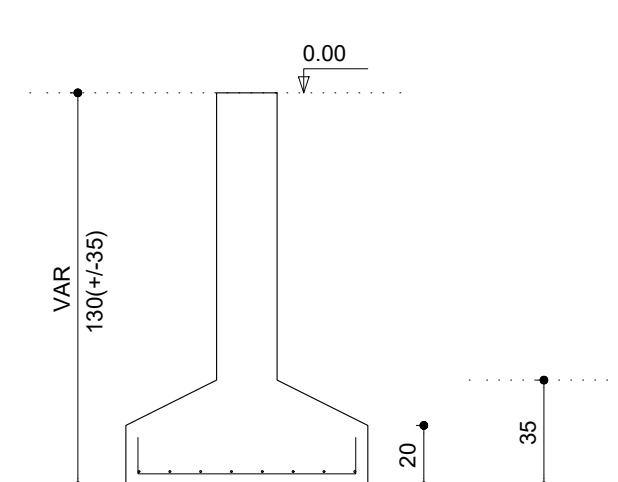
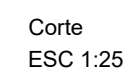
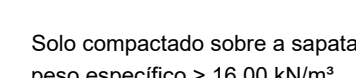
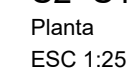
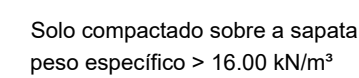
Nome	Seção (cm)	Pilar		Carga Máx. (kN)	Carga Min. (kN)	Fundação				
		X (cm)	Y (cm)			Lado B (cm)	Lado H (cm)	h0 / ha (m)	h1 / hb (m)	df (m)
P1	20x20	327.82	287.38	113	12	65	65	0.25	0.35	1.30
P2	20x20	737.82	287.38	197	23	80	85	0.20	0.35	1.30
P3	20x50	1407.82	272.38	191	14	80	110	0.20	0.35	1.30
P4	20x50	2077.82	272.38	201	16	80	110	0.20	0.35	1.30
P5	20x20	2747.82	287.38	108	12	65	65	0.25	0.35	1.30
P6	20x30	327.82	-300.62	224	23	85	95	0.20	0.35	1.30
P7	20x30	737.82	-300.62	225	22	85	95	0.20	0.35	1.30
P8	20x50	2732.82	-300.62	134	14	70	100	0.20	0.35	1.30
P9	20x30	327.82	-888.62	179	12	75	75	0.20	0.35	1.30
P10	20x30	737.82	-888.62	225	19	80	85	0.20	0.35	1.30
P11	20x50	1407.82	-888.62	235	15	80	110	0.20	0.35	1.30
P12	20x50	2077.82	-888.62	235	16	80	110	0.20	0.35	1.30
P13	20x20	2747.82	-888.62	159	18	75	75	0.20	0.35	1.30
P14	20x30	327.82	-1476.62	197	14	80	85	0.20	0.35	1.30
P15	20x30	737.82	-1476.62	196	14	80	85	0.20	0.35	1.30
P16	20x50	2732.82	-1476.62	134	14	70	100	0.20	0.35	1.30
P17	20x20	327.82	-2064.62	90	6	65	65	0.25	0.35	1.30
P18	20x20	737.82	-2064.62	150	12	65	65	0.25	0.35	1.30
P19	20x50	1407.82	-2049.62	148	16	80	110	0.20	0.35	1.30
P20	20x50	2077.82	-2049.62	200	16	85	115	0.20	0.35	1.30
P21	20x20	2747.82	-2064.62	109	12	65	65	0.25	0.35	1.30



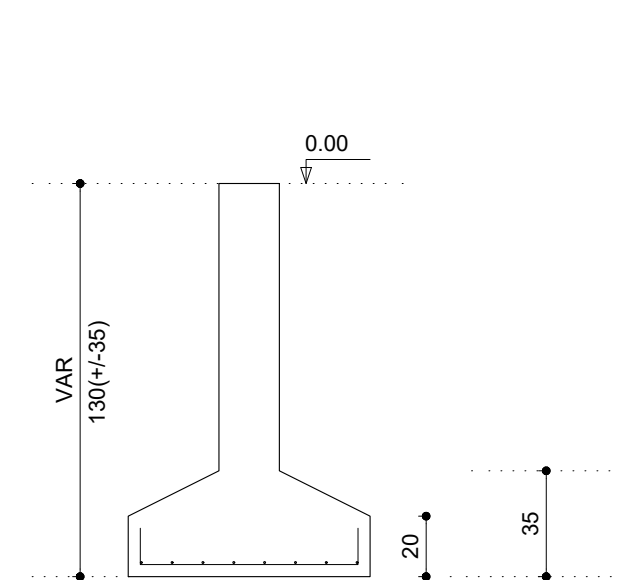
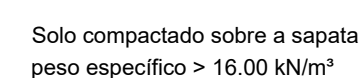
Locação no eixo X	
Coordenadas (cm)	Nome
327.82	P1, P6, P9, P14, P17
737.82	P2, P7, P10, P15, P18
1407.82	P3, P11, P19
2077.82	P4, P12, P20
2732.82	P8, P16
2747.82	P5, P13, P21

Locação no eixo Y	
Coordenadas (cm)	Nome
287.38	P1, P2, P5
272.38	P3, P4
-300.62	P6, P7, P8
-888.62	P9, P10, P11, P12, P13
-1476.62	P14, P15, P16
-2049.62	P19, P20
-2064.62	P17, P18, P21

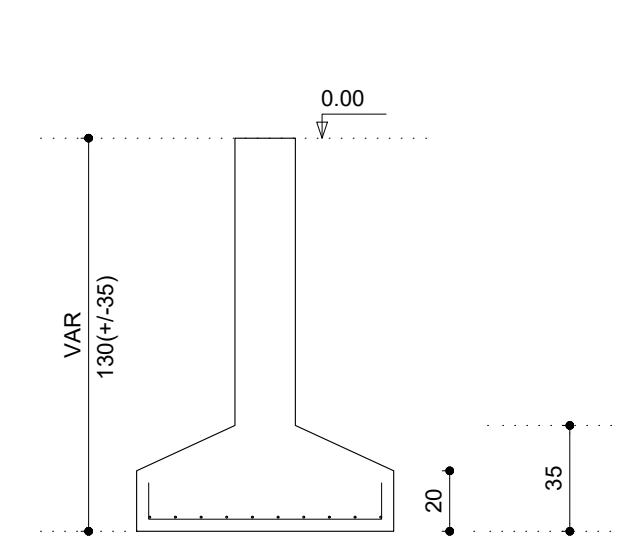
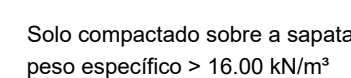
Corte
ESC 1:25



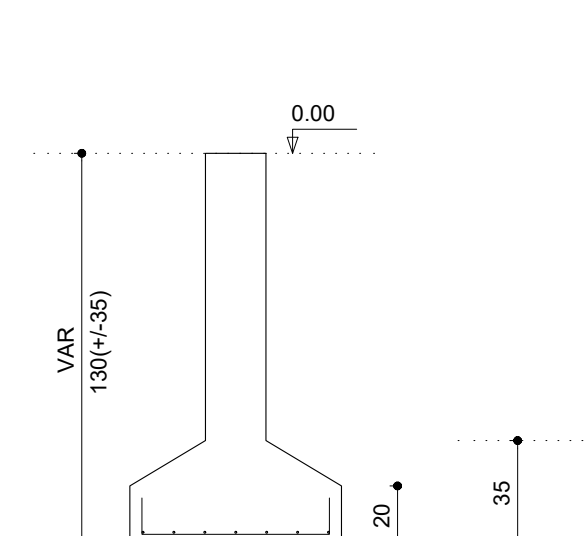
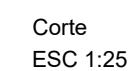
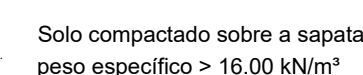
Planta
ESC 1:25



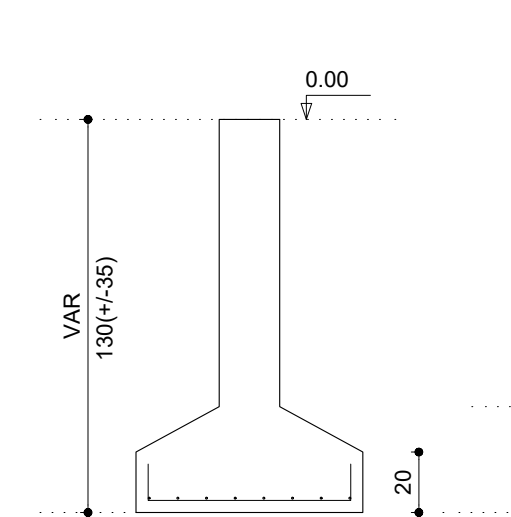
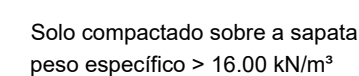
Planta
ESC 1:25



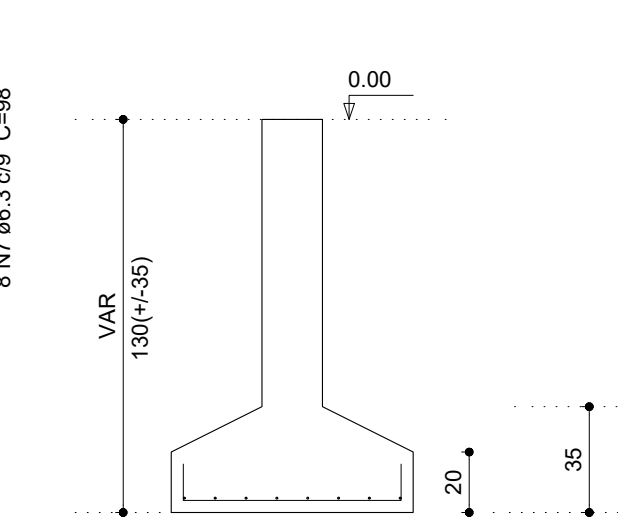
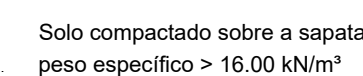
Planta
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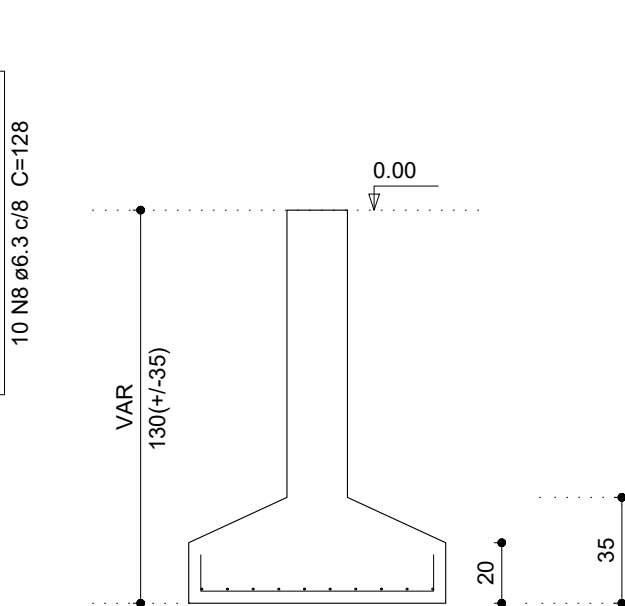
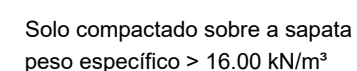
Corte
ESC 1:25



Planta
ESC 1:25



Planta
ESC 1:25



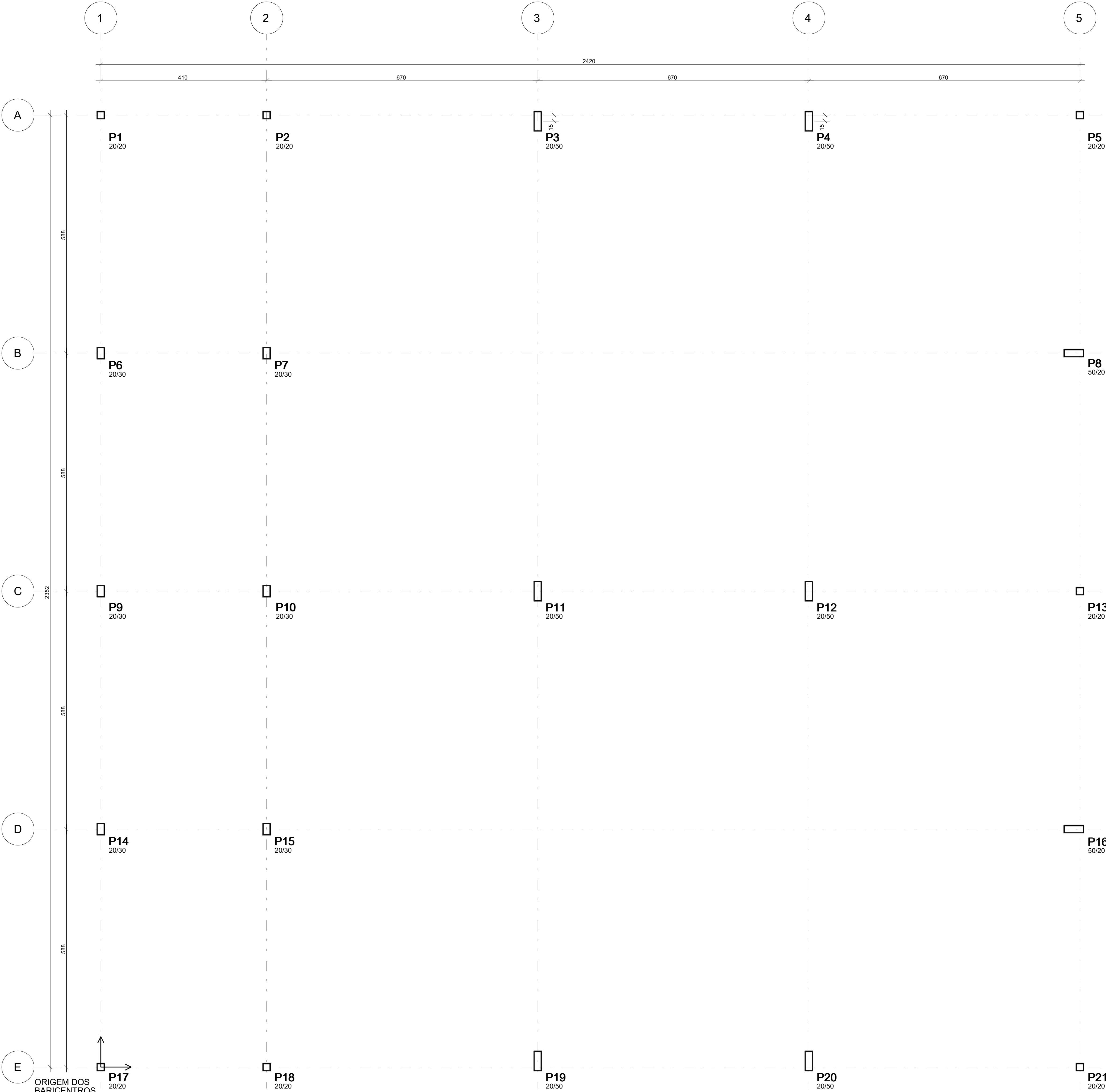
5xS1	2xS2	2xS7
S10	5xS12	3xS14
2xS16	S20	

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	80	88	7040
	2	6.3	42	93	3906
	3	6.3	40	123	4920
	4	6.3	20	108	2160
	5	6.3	14	113	1582
	6	6.3	30	88	2640
	7	6.3	32	98	3136
	8	6.3	10	128	1280
	9	8.0	55	92	5060
	10	8.0	28	97	2716
	11	8.0	18	82	1476

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	266.7	71.8
	8.0	92.6	40.2
PESO TOTAL			
CA50	111.9		

Vol. de concreto total (C-20) = 3.95 m³
Área de forma total = 14.51 m²

LOCAÇÃO DOS PILARES
ESC.-1/50



Baricentros de pilares		
Pilar	X (cm)	Y (cm)
P1	0,0	2352,0
P2	410,0	2352,0
P3	1080,0	2337,0
P4	1750,0	2337,0
P5	2420,0	2352,0
P6	0,0	1784,0
P7	410,0	1784,0
P8	2405,0	1784,0
P9	0,0	1176,0
P10	410,0	1176,0
P11	1080,0	1176,0
P12	1750,0	1176,0
P13	2420,0	1176,0
P14	0,0	588,0
P15	410,0	588,0
P16	2405,0	588,0
P17	0,0	0,0
P18	410,0	0,0
P19	1080,0	15,0
P20	1750,0	15,0
P21	2420,0	0,0

ATENÇÃO:

- PROJETO CALCULADO PARA AS SEGUINTES CONDIÇÕES:
- Fck > 30 MPa (300 Kgf/cm²)
 - Ec > 30.670 MPa
 - CLASSE DE AGRESSIVIDADE: 3 (MARINHA)
 - COBRIMENTOS:
 - FUNDAÇÕES: 5 cm
 - PILARES: 4 cm
 - VIGAS: 4 cm
 - LAJES: 3 cm
 - ADOTAR CONTROLE RIGOROSO DE CONCRETO

NOTAS:

- AS FUNDAÇÕES DEVERÃO SER DIMENSIONADAS EM PROJETO ESPECÍFICO DE ACORDO COM A PLANTA DE CARGA APRESENTADA E LAUDO DE SONDAGEM (TIPO SPT) A SER EXECUTADO.
- ANTES DO INÍCIO DA EXECUÇÃO DAS FUNDAÇÕES, TORNA-SE INDISPENSÁVEL INSPEÇÃO PARA IDENTIFICAR SITUAÇÕES PARTICULARES DO TERRENO, TAIS COMO: POÇOS D'ÁGUA ATERRADOS; ZONAS DE ATERRO COM ENTULHO OU MESMO LIXO; FORMIGUEIROS; OU ATÉ MESMO MÁ QUALIDADE DO SOLO DE OCORRÊNCIA LOCALIZADA.

OBSERVAÇÕES:

- * A EXECUÇÃO DA ESTRUTURA DEVERÁ SEGUIR CRITERIOSAMENTE AS RECOMENDAÇÕES DAS NORMAS PERTINENTES DA ABNT, ESPECIALMENTE A NB-1.
- * NÃO TIRAR MEDIDAS EM ESCALA, CONFERIR COTAS "IN LOCO".
- * REALIZAR CURA E CONTROLE TECNOLÓGICO DO CONCRETO.
- * NÃO DEIXAR EM CONCRETO APARENTE ELEMENTOS NÃO PREVISTOS COMO TAL.
- * NÃO DEIXAR FUROS E PASSAGENS DE TUBULAÇÕES SUPERIORES A 10cm SEM PREVISÃO EM PROJETO.
- * NÃO PROMOVER ALTERAÇÕES NA ARQUITETURA SEM PRÉVIA AUTORIZAÇÃO DO ENGENHEIRO ESTRUTURAL.
- * ENCHIMENTOS DE LAJES, QUANDO INEVITÁVEIS, DEVERÃO SER REALIZADOS COM CONCRETO LEVE E NÃO PODERÃO TER ESPESSURA SUPERIOR A 10cm.
- * MODIFICAÇÕES NESTE PROJETO E SUA UTILIZAÇÃO EM OBRA DIVERSA DA ABAIXO ESPECIFICADA SUJEITARÁ OS RESPONSÁVEIS ÀS PENAS DA LEGISLAÇÃO VIGENTE.



INSTITUTO
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INSTITUTO FEDERAL DE
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Anísio de
Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

PROJETO ESTRUTURAL DO CAMPUS
ARARIPINA DO IFSertãoPE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:
LOCAÇÃO DOS PILARES (LAB. ESPECIAIS)

ESCALA:
INDICADA

DATA:
ABRIL/2025

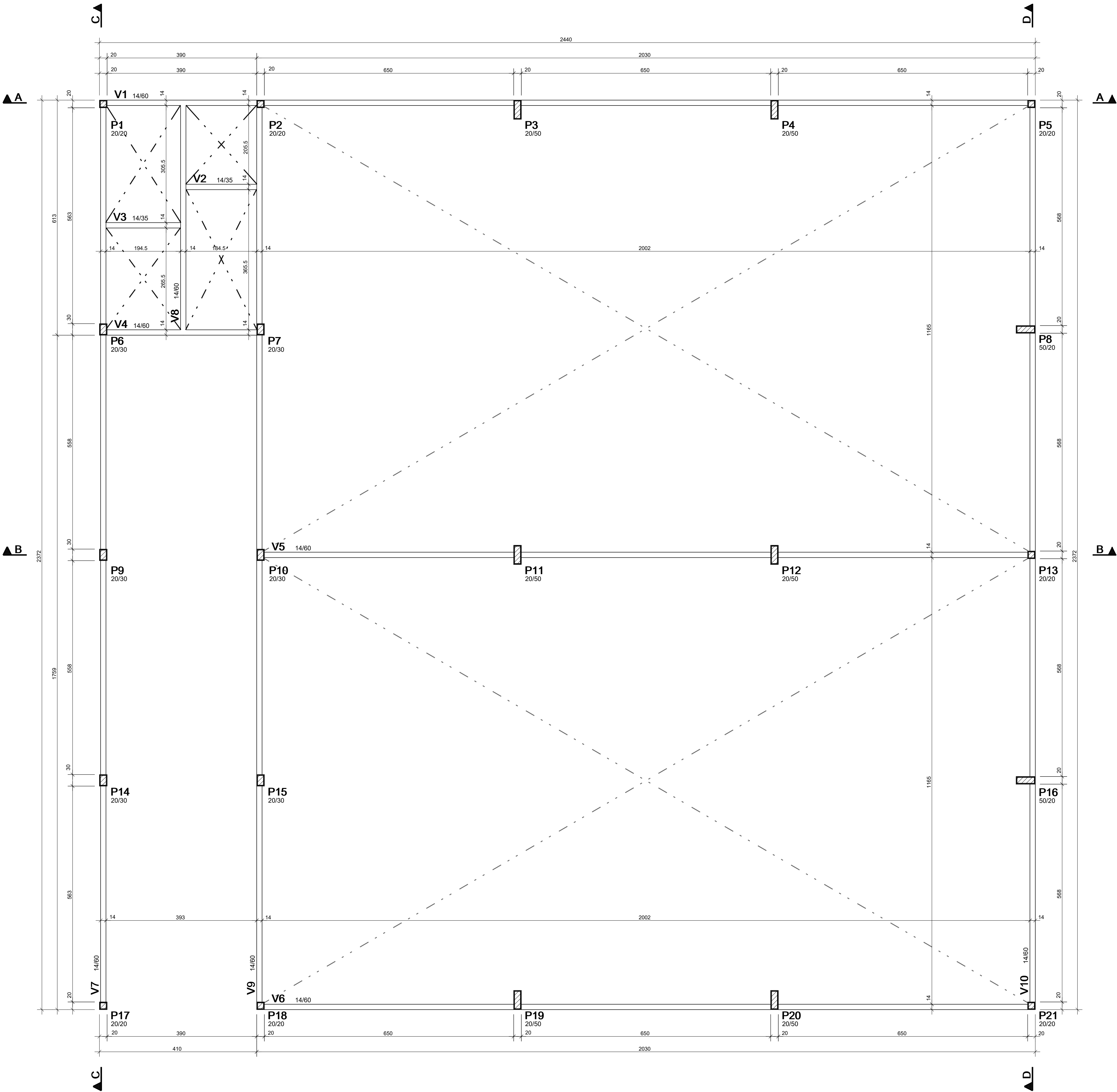
ASSINATURACARIMBO - DIREÇÃO GERAL:

ASSINATURACARIMBO - RESPONSÁVEL TÉCNICO:
Ebson Alves da Silva - CREA BA 055750

03/07

FÔRMA DO TÉRREO

ESC.-1/50

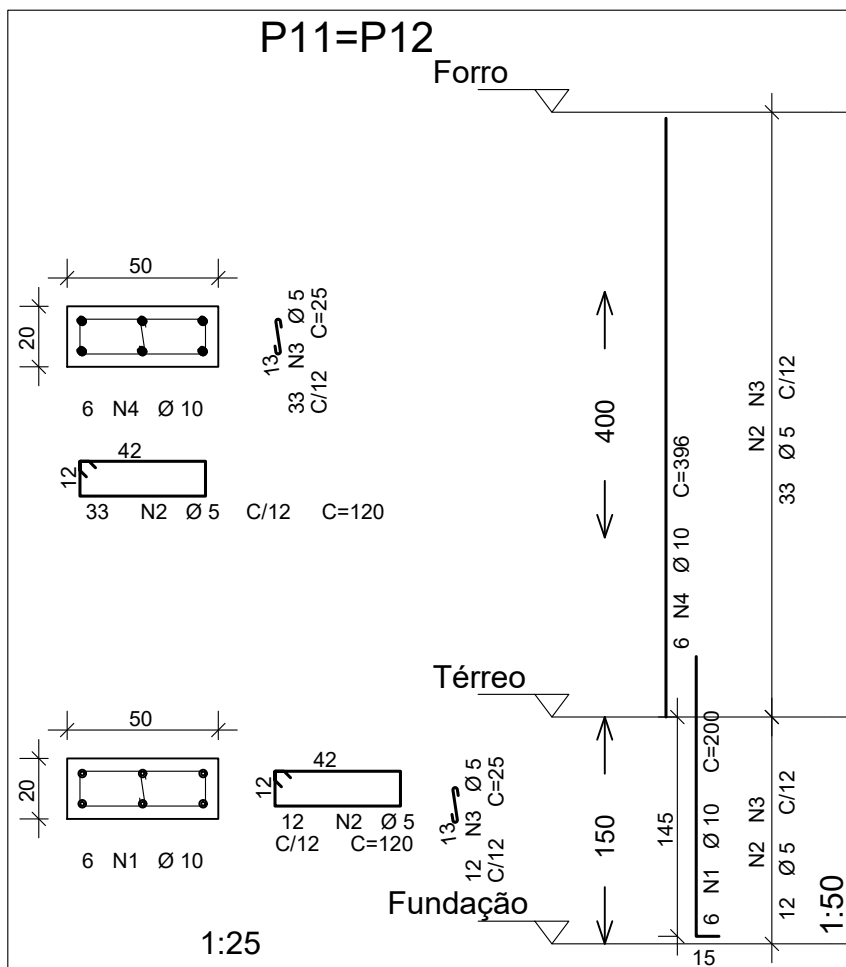
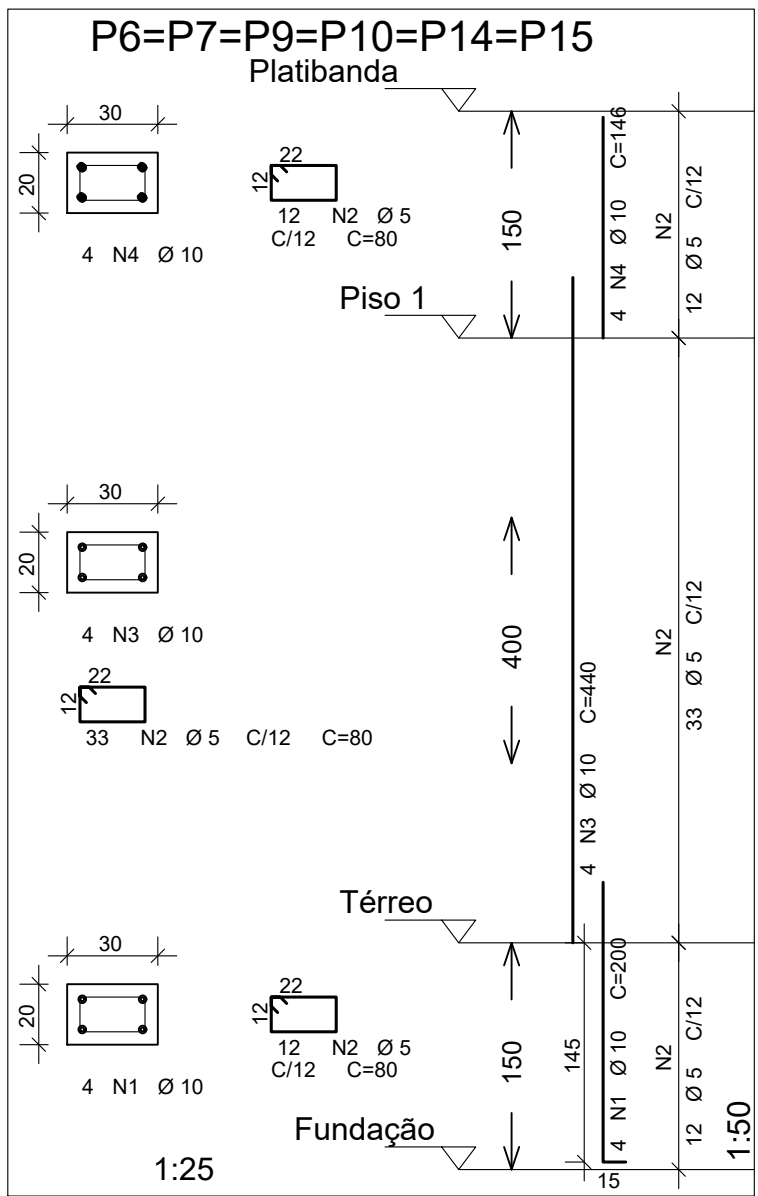
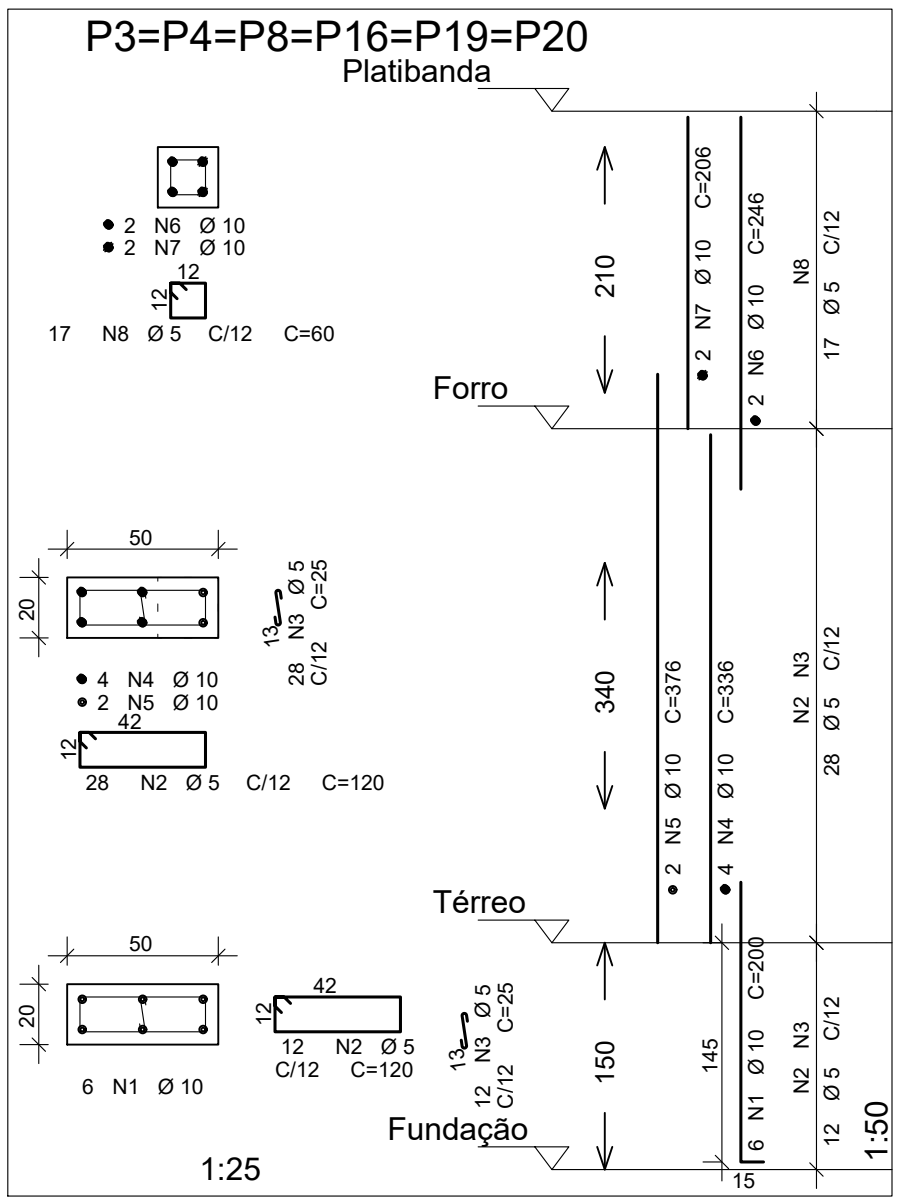
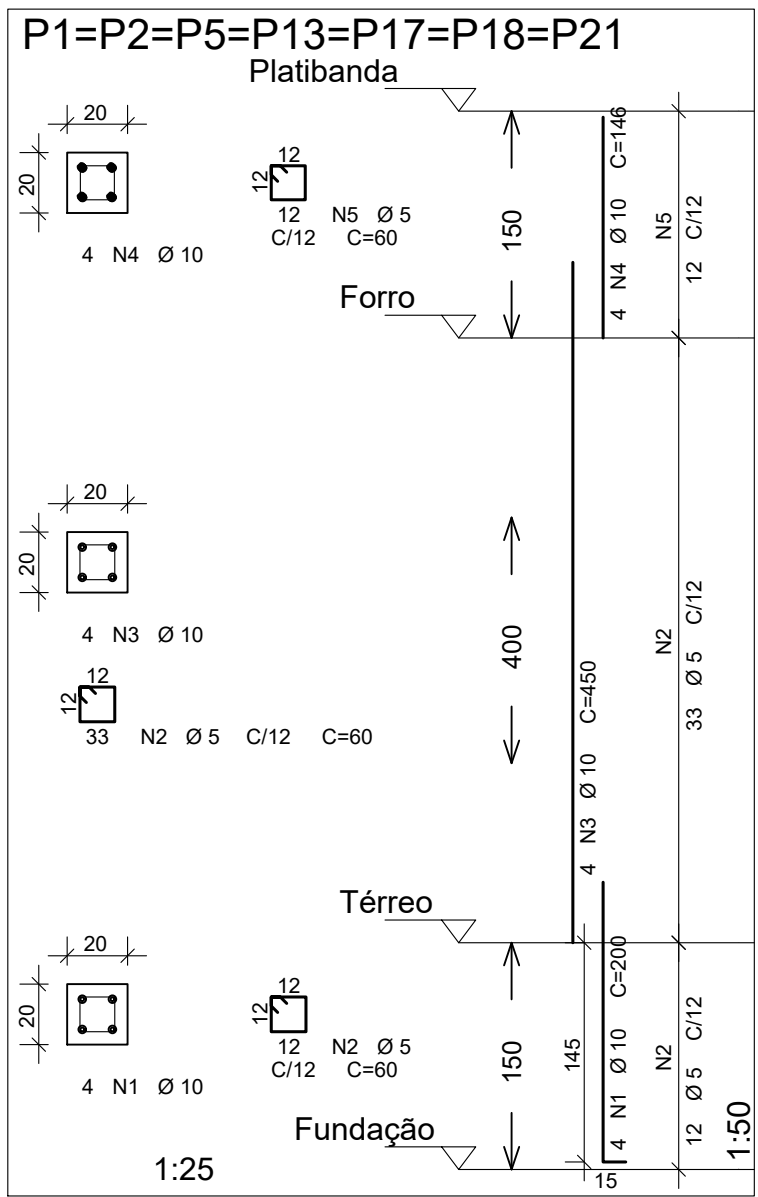


CONVENÇÃO DE PILARES

MORRE

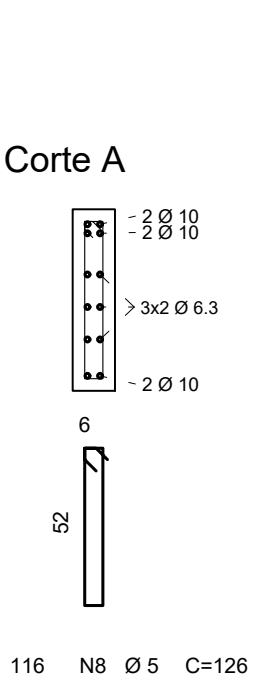
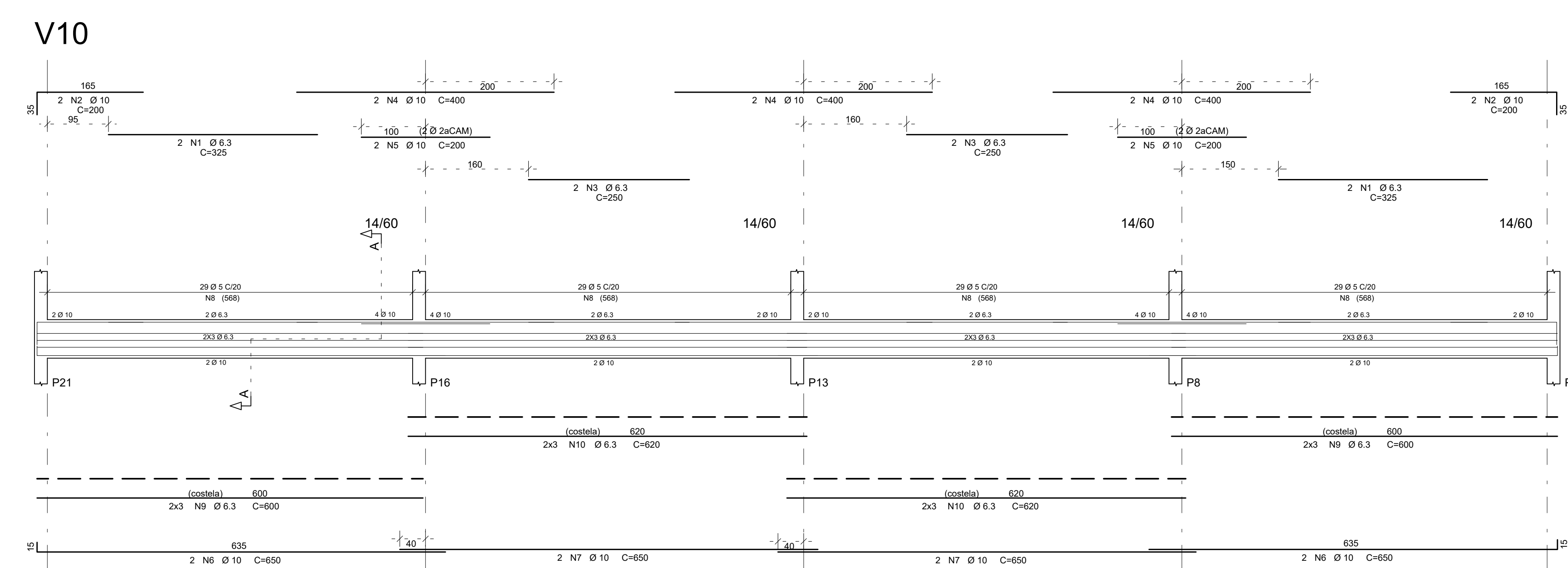
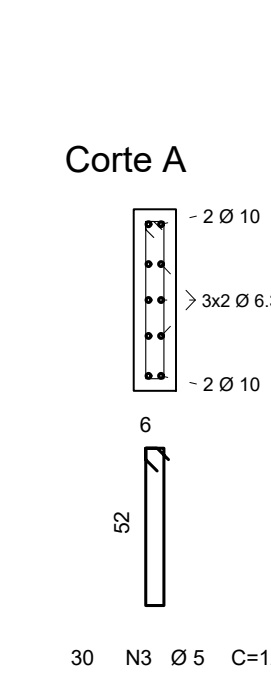
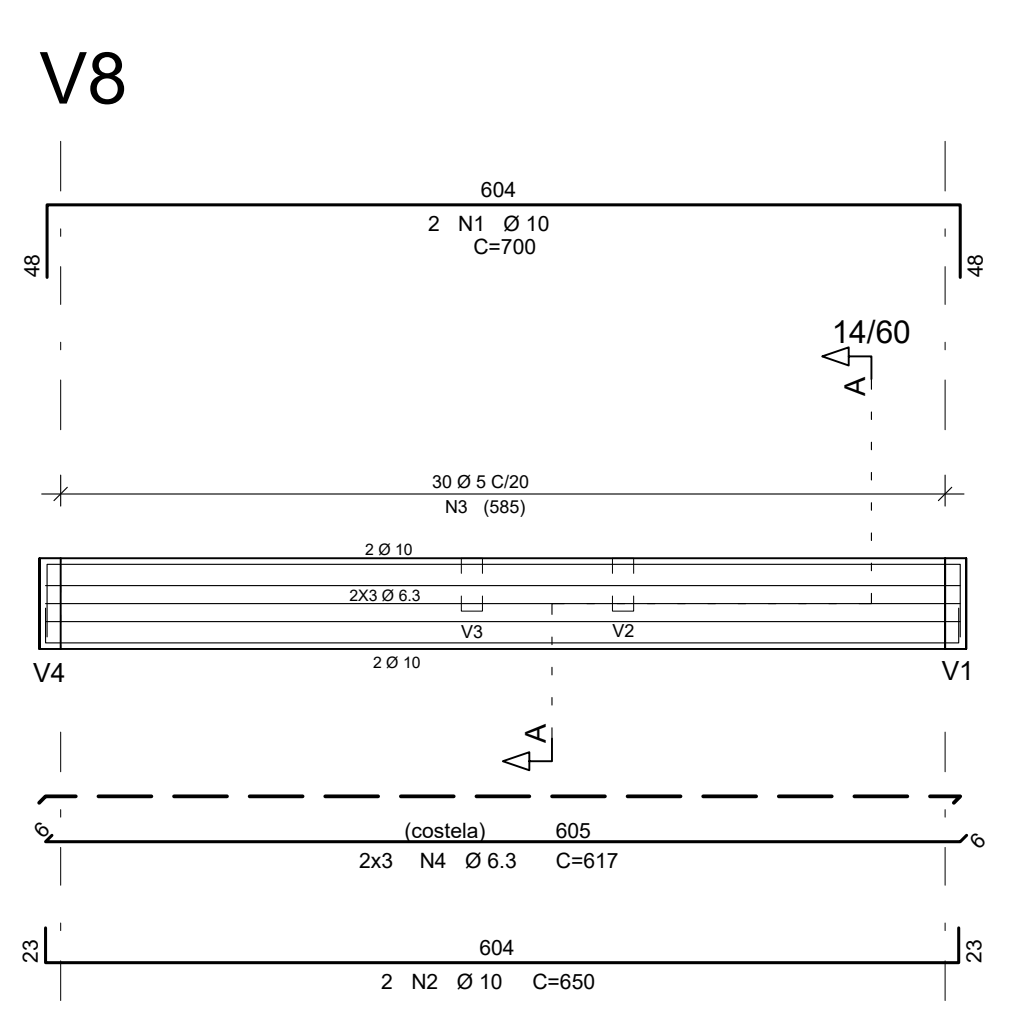
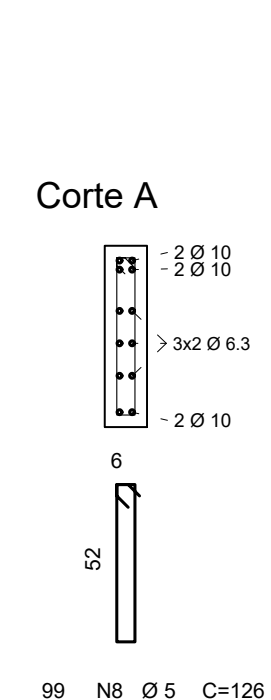
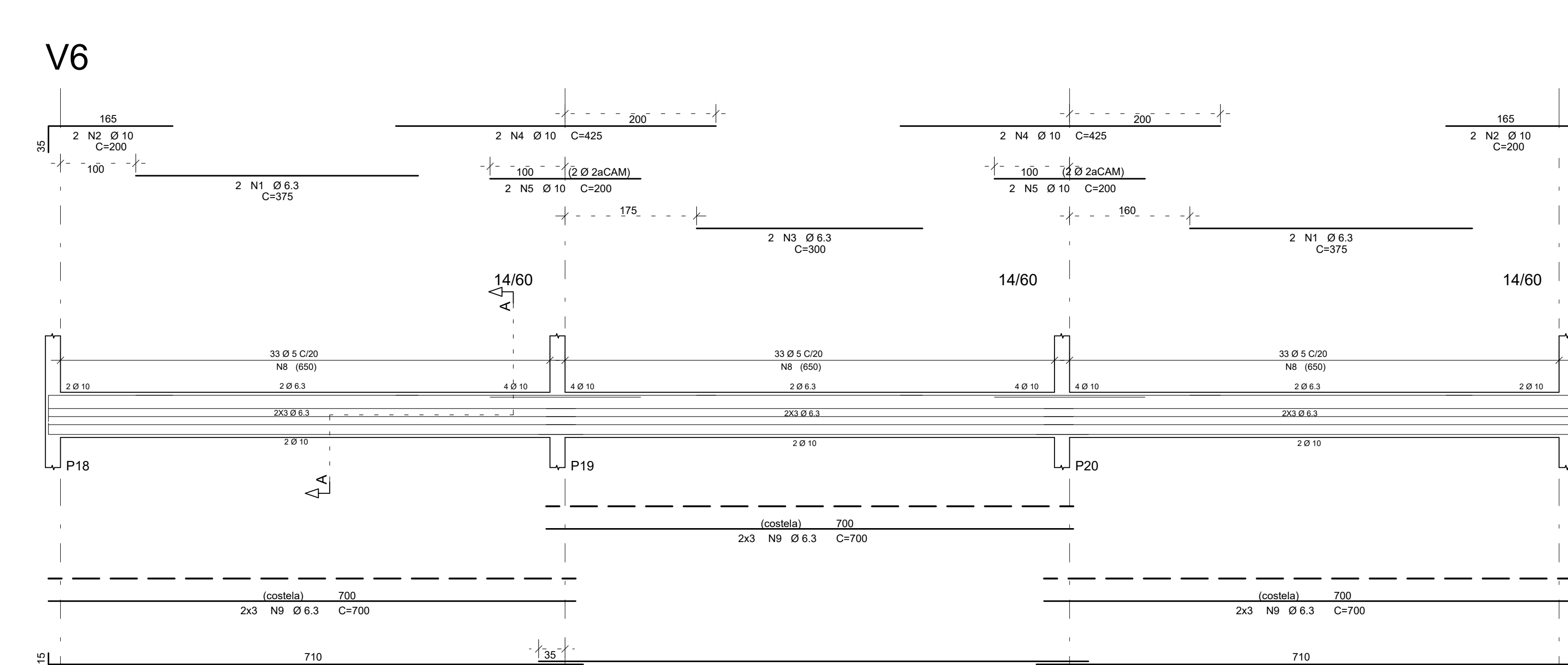
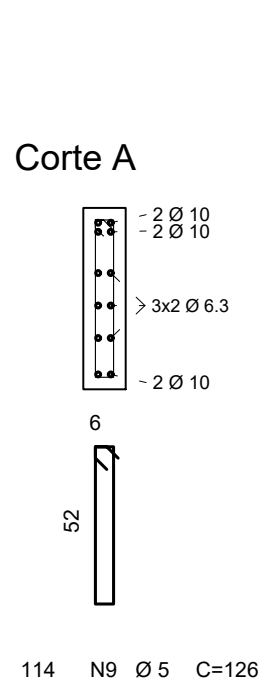
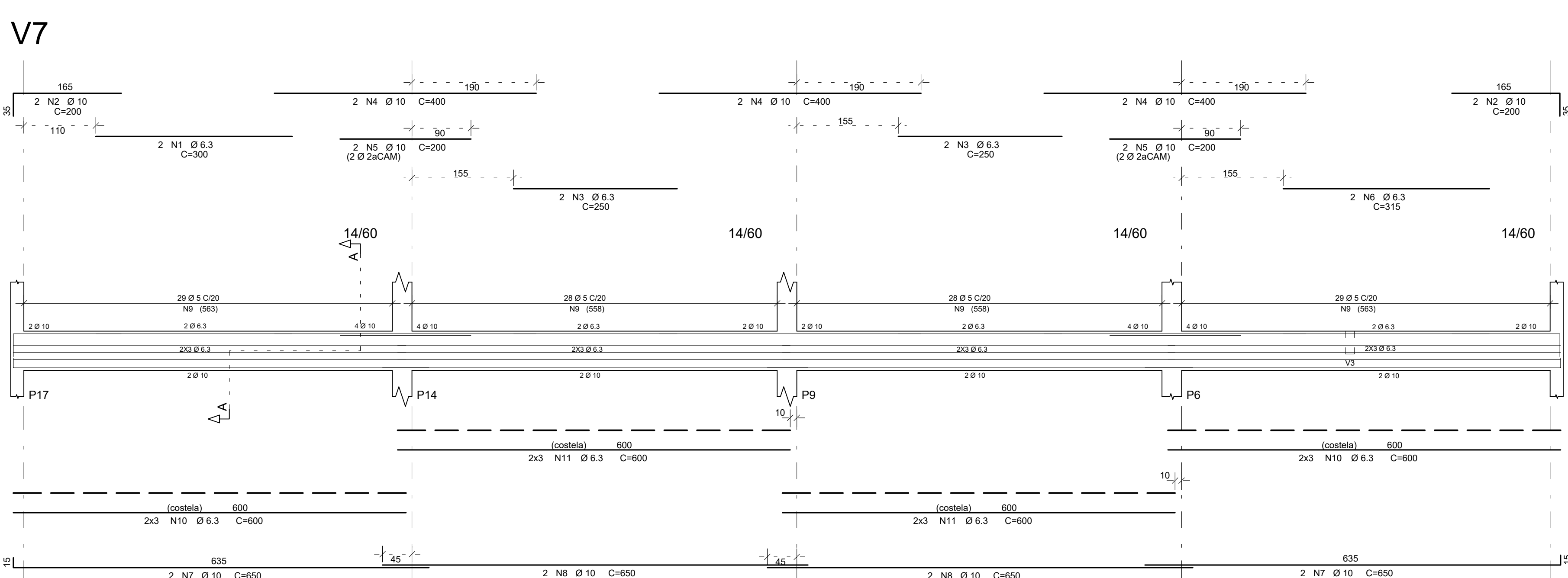
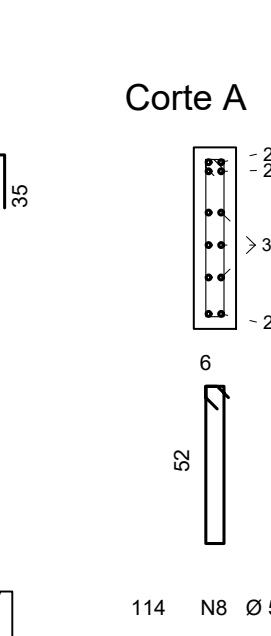
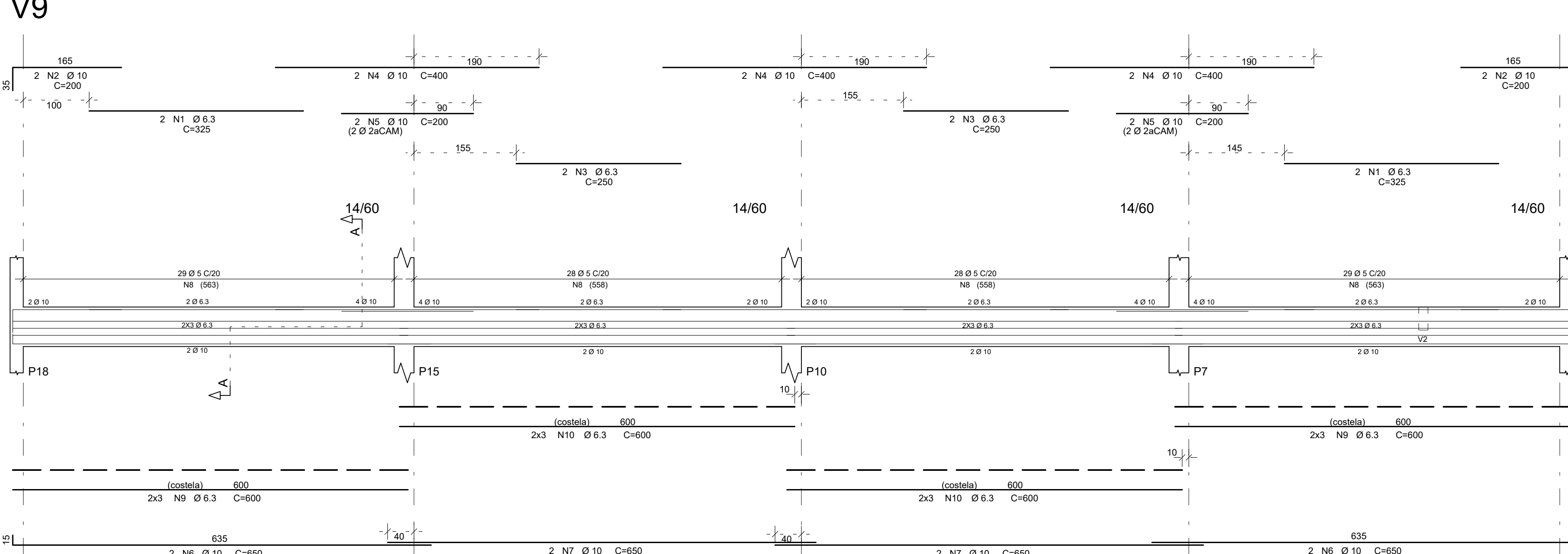
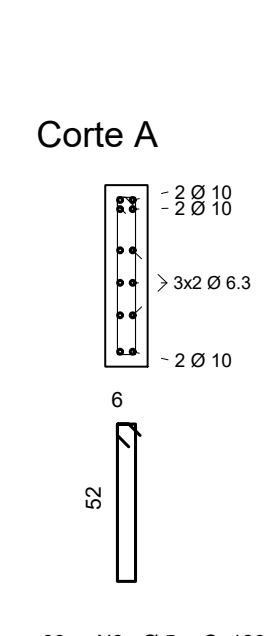
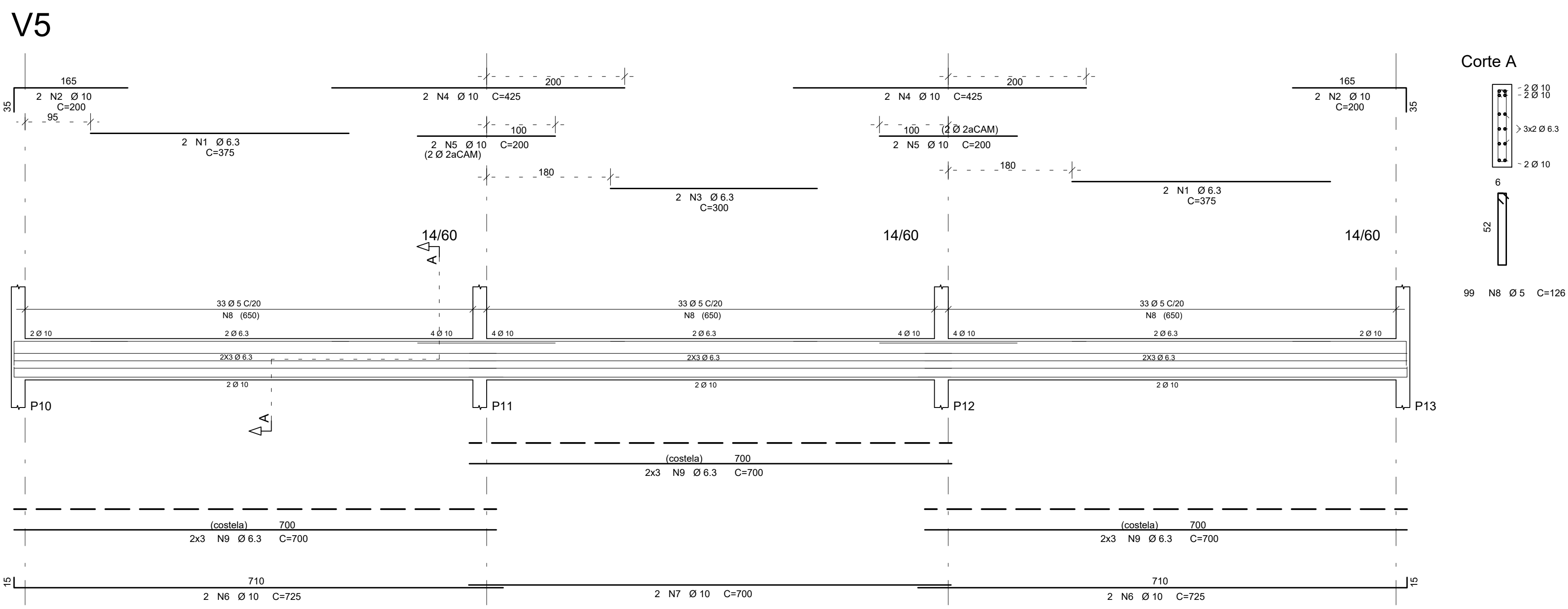
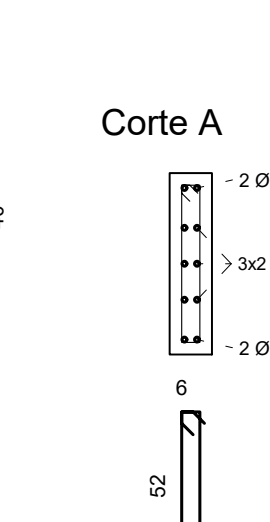
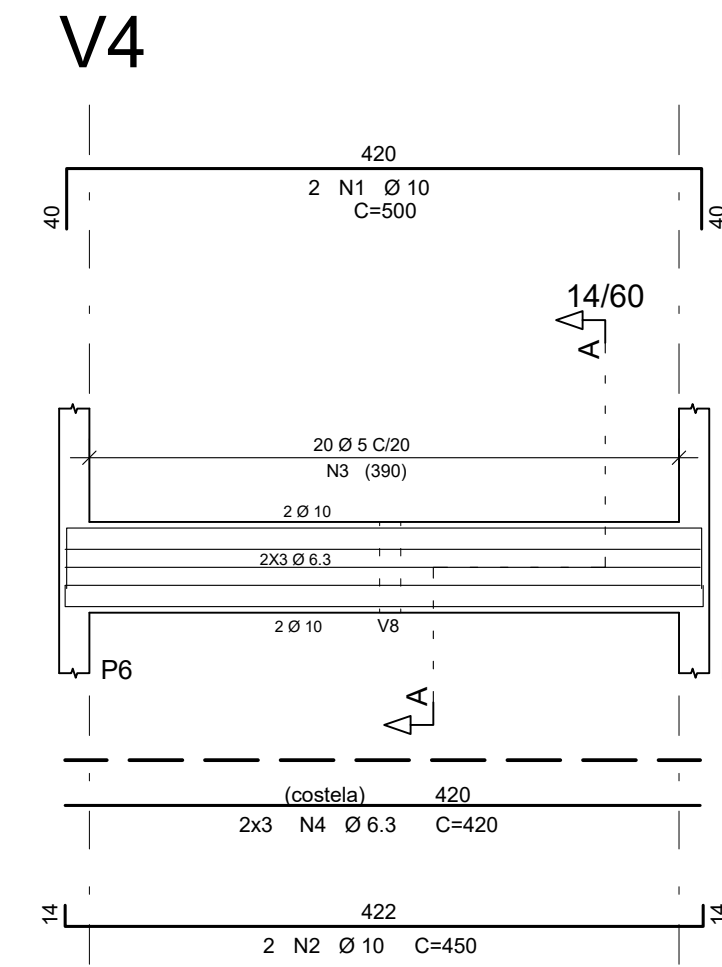
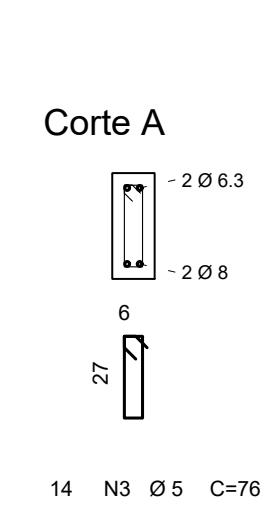
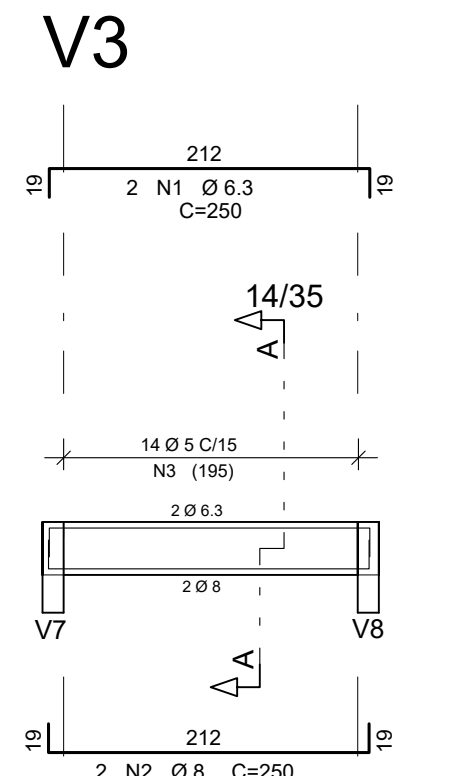
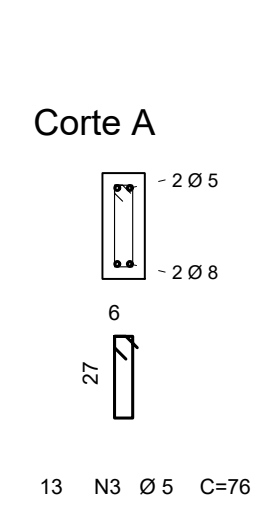
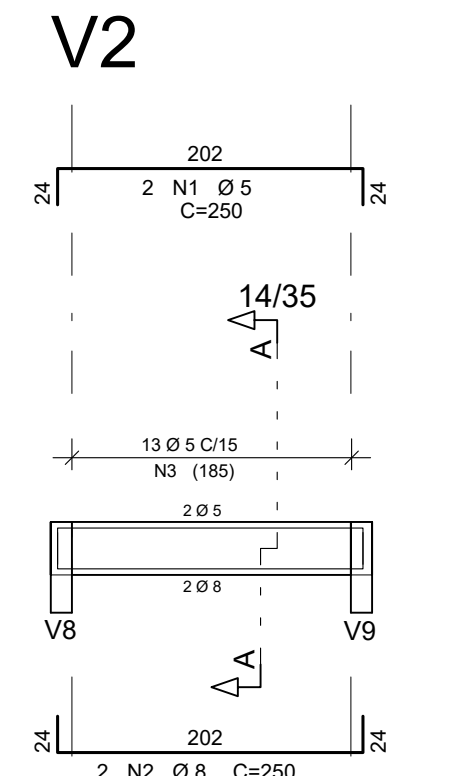
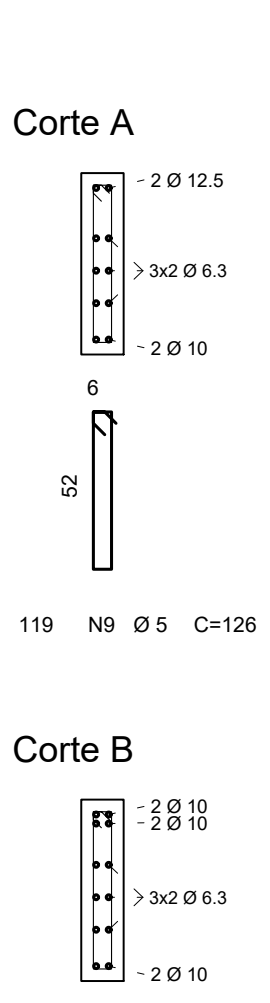
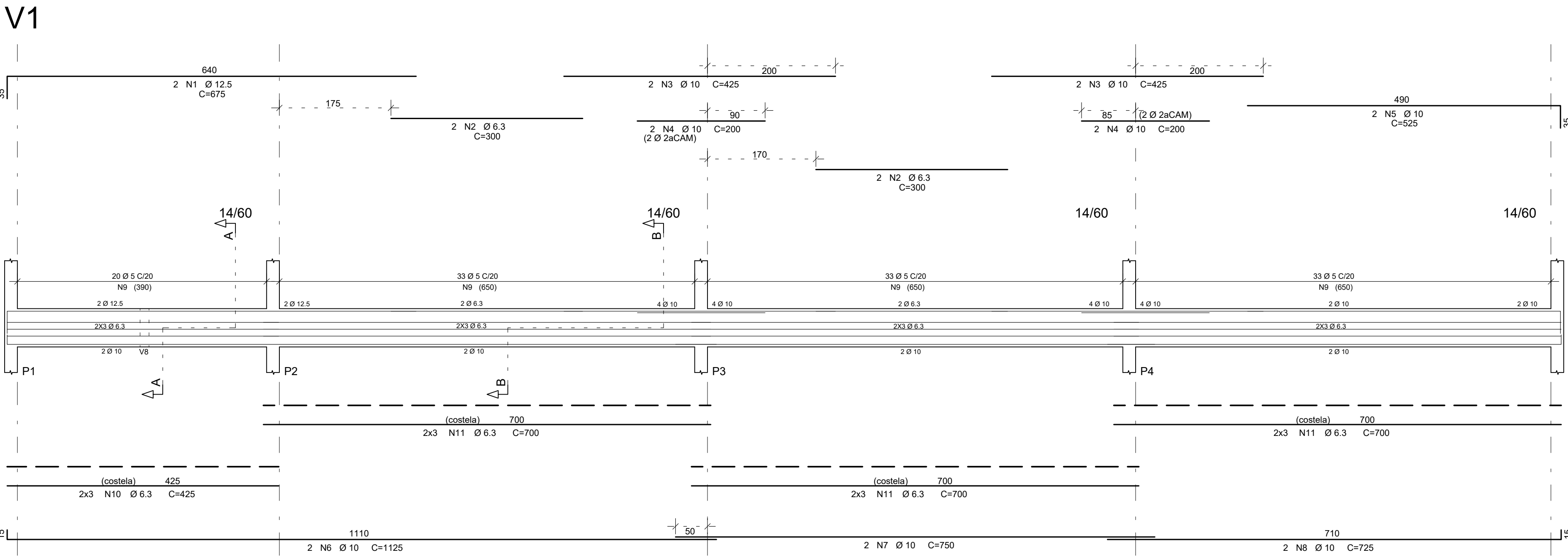
CONTINUA

NASCE



ACO	POS	BIT (mm)	QUANT	COMPRIMENTO (cm)	TOTAL (cm)
P1=P2=P5=P13=P17=P18=P21 (X7)					
50	1	10	28	200	5600
60	2	5	315	60	18900
80	3	10	28	450	12600
50	4	10	28	146	4088
80	5	5	84	80	5040
P3=P4=P8=P16=P19=P20 (X6)					
50	1	10	36	200	7200
60	2	5	240	120	28800
80	3	5	240	25	6000
50	4	10	24	336	8064
80	5	10	12	376	4512
50	6	10	12	248	2976
80	7	10	12	306	3672
80	8	5	102	80	8160
P6=P7=P9=P10=P14=P15 (X6)					
50	1	10	34	200	6800
60	2	5	342	80	27360
80	3	10	24	440	10560
50	4	10	24	146	3504
P11=P12 (X2)					
50	1	10	12	200	2400
60	2	5	90	120	10800
80	3	5	80	25	2000
50	4	10	12	396	4752

ACO	RESUMO AÇO CA 50-60	PESO (kg)
BIT (mm)	COMPR (m)	
50	5	1053
60	10	735
Peso Total	60 =	168 kg
Peso Total	50 =	463 kg



	ÇO	POS	BIT	QUANT	COMPRIMENTO
			(mm)		(cm)
V1	50	1	12.5	2	675
	50	2	6.3	4	300
	50	3	10	4	425
	50	4	300	800	1700
	50	5	10	2	525
	50	6	10	2	1120
	50	7	10	2	750
	50	8	10	2	725
	50	9	5	119	14684
	50	10	6.3	6	425
	50	11	6.3	18	2500
V2	50	1	5	2	350
	50	2	8	2	250
	50	3	5	13	76
V3	50	1	6.3	2	250
	50	2	6.3	2	250
	50	3	5	14	76
V4	50	1	10	2	500
	50	2	10	2	450
	50	3	5	20	126
	50	4	6.3	6	420
V5	50	1	6.3	4	375
	50	2	10	4	200
	50	3	6.3	2	300
	50	4	10	4	425
	50	5	10	4	200
	50	6	10	4	725
	50	7	10	2	1450
	50	8	5	99	126
	50	9	6.3	18	700
V6	50	1	6.3	4	375
	50	2	10	4	200
	50	3	6.3	2	300
	50	4	10	4	425
	50	5	10	4	200
	50	6	10	4	725
	50	7	10	2	1450
	50	8	5	99	126
	50	9	6.3	18	700
V7	50	1	6.3	2	300
	50	2	10	4	200
	50	3	6.3	2	300
	50	4	10	6	400
	50	5	10	4	200
	50	6	6.3	2	315
	50	7	10	4	650
	50	8	10	4	650
	50	9	5	114	126
	50	10	6.3	12	600
	50	11	6.3	12	600
V8	50	1	10	2	700
	50	2	10	2	650
	50	3	5	30	126
	50	4	6.3	6	617
V9	50	1	6.3	4	325
	50	2	10	4	200
	50	3	6.3	4	250
	50	4	10	6	400
	50	5	10	4	200
	50	6	10	4	650
	50	7	10	4	650
	50	8	5	114	126
	50	9	6.3	12	600
	50	10	6.3	12	600
V10	50	1	6.3	4	325
	50	2	10	4	200
	50	3	6.3	4	250
	50	4	10	6	400
	50	5	10	4	200
	50	6	10	4	650
	50	7	10	4	650
	50	8	5	116	126
	50	9	6.3	12	600
	50	10	6.3	12	600

RESUMO AÇO CA 50-60			
ÇO	BIT	COMPR	PESO
	(mm)	(m)	(kg)
60	5	921	147
50	6.3	1027	257
50	8	10	4
50	10	562	354
50	12.5	14	14
Peso Total	60	=	147 kg
Peso Total	50	=	628 kg

ESC.-1/50

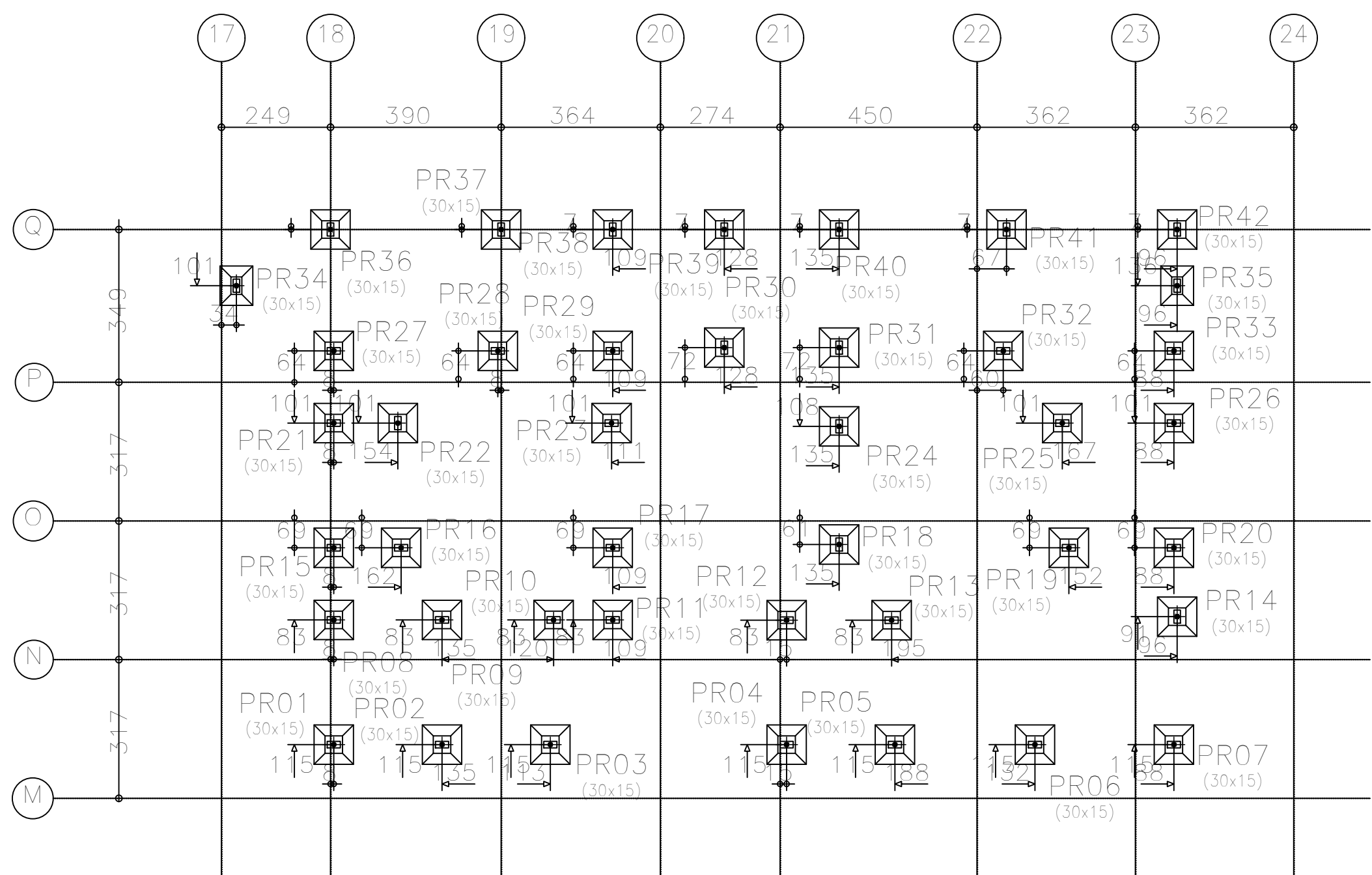
ESC.-1/50

ESC.-1/50

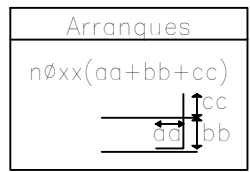
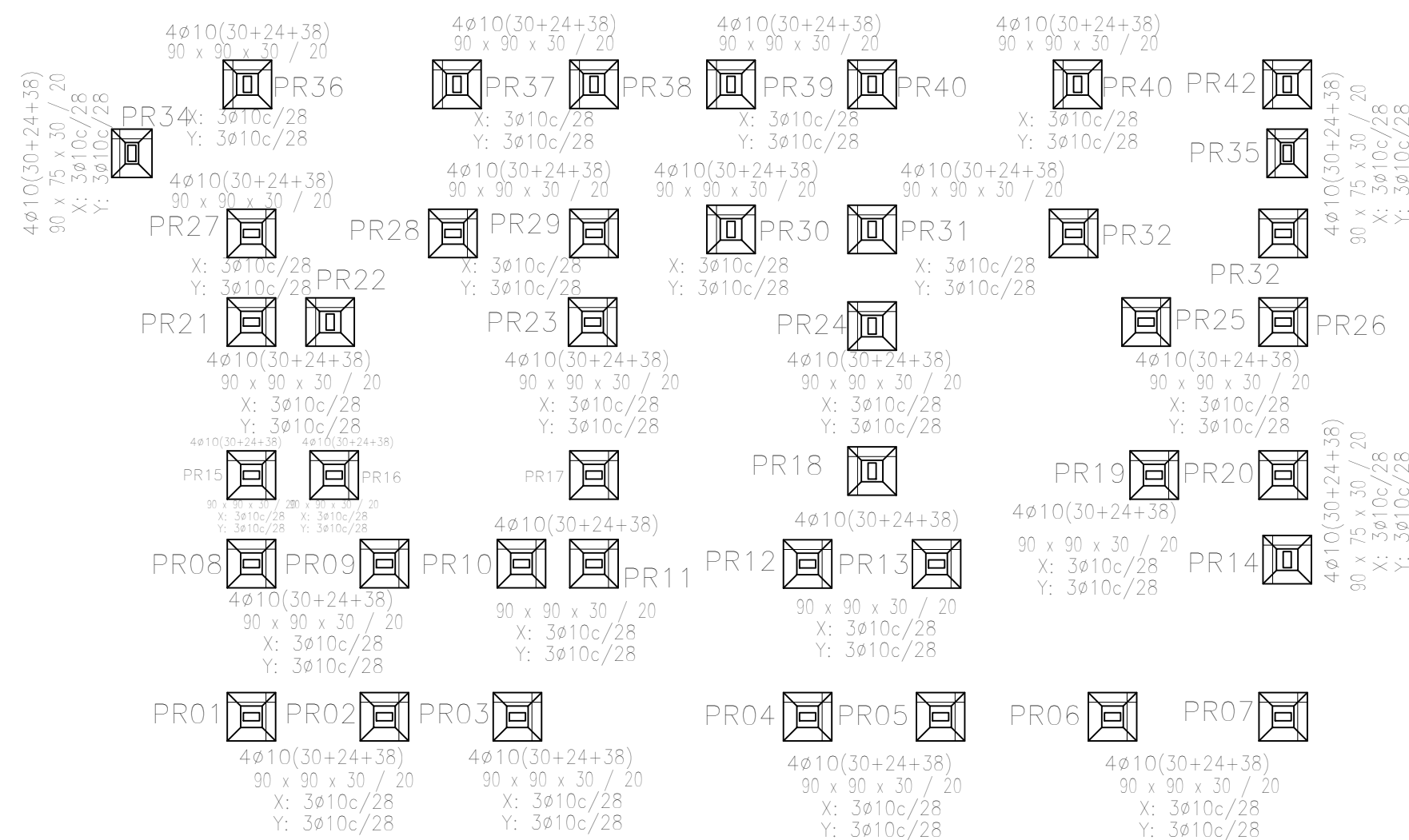
ESC.-1/50

ESC.-1/75

ESL-1/25

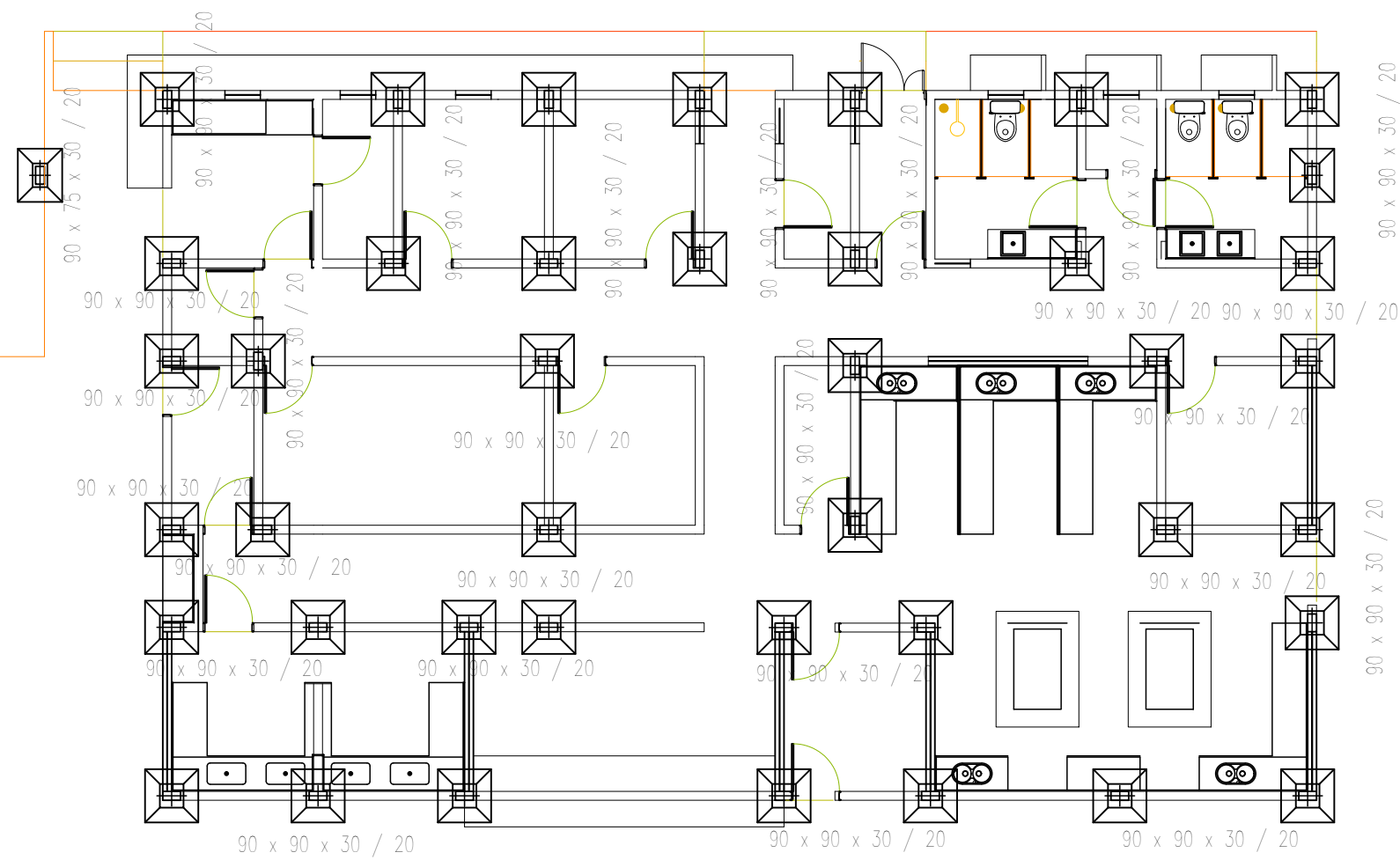


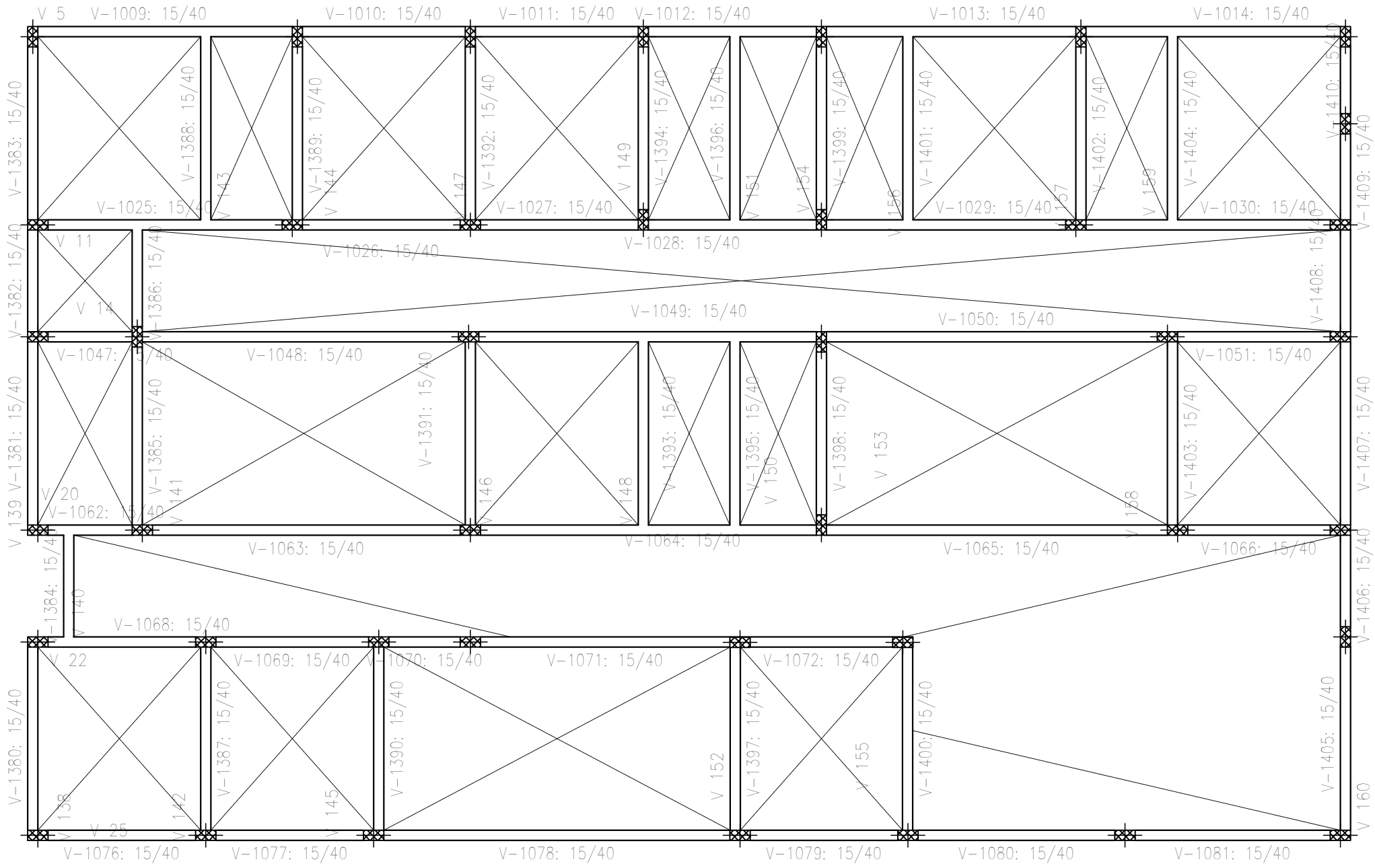
Fundação
Piso
Escala: 1:150



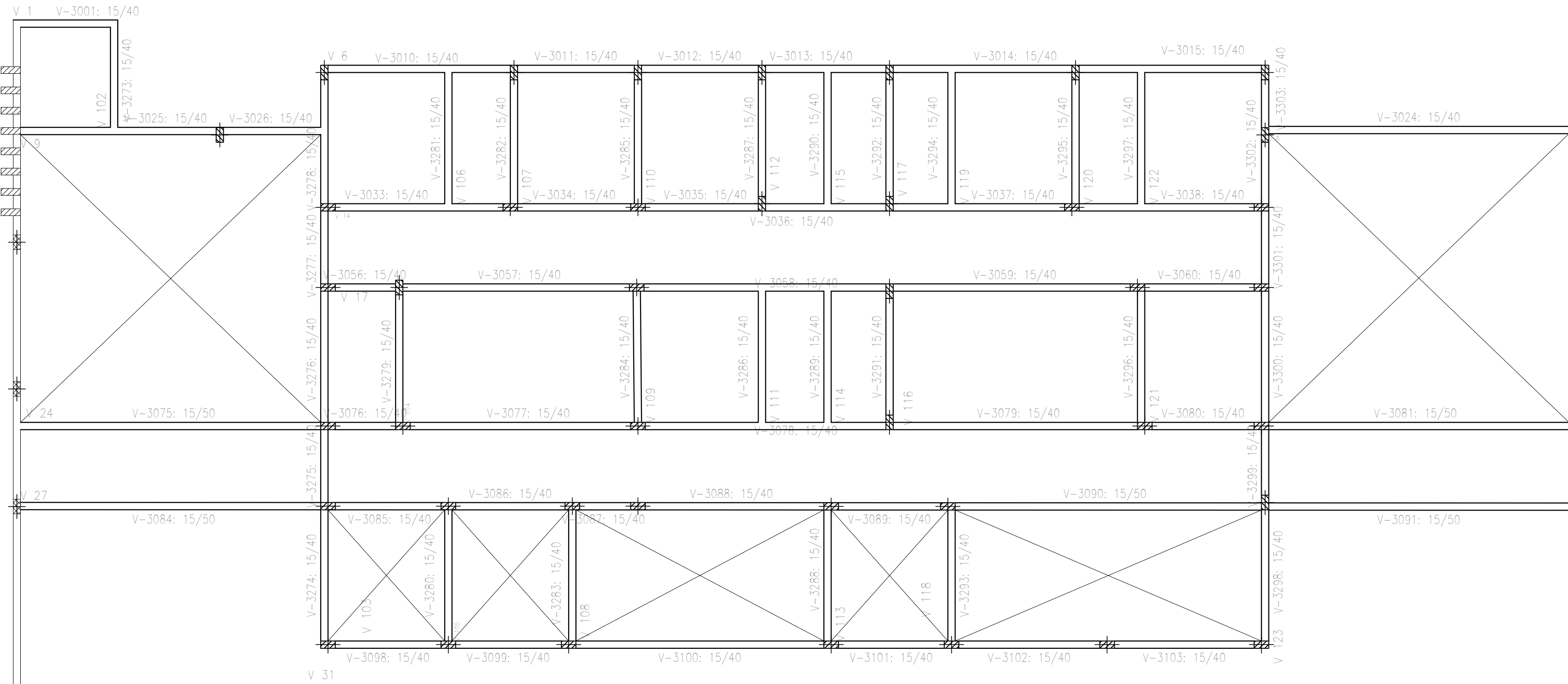
Fundação
Fundação
Concreto: C25, em geral
Escala: 1:150

QUADRO DE ELEMENTOS DE FUNDAÇÃO						
Referências	Dimensões (cm)	Altura (cm)	Armadura inf. X	Armadura inf. Y	Armadura sup. X	Armadura sup. Y
PR04, PR08, PR12, PR14, PR15, PR16, PR19, PR27, PR30 e PR31	90x90	30 / 20	3ø10c/28	3ø10c/28		
PR03, PR13, PR20, PR23, PR24, PR25, PR26, PR28, PR32, PR33, PR36, PR37, PR39, PR40, PR41 e PR42	90x90	30 / 20	3ø10c/28	3ø10c/28		
PR08 e PR04	90x90	30 / 20	3ø10c/28	4ø10c/28		
PR07 e PR38	90x90	30 / 20	3ø10c/28	3ø10c/28		
PR01 e PR21	90x90	30 / 20	3ø10c/28	3ø10c/28		
PR02, PR05, PR09, PR17, PR22 e PR29	90x90	30 / 20	3ø10c/28	3ø10c/28		
PR06, PR10 e PR11	90x90	30 / 20	3ø10c/28	3ø10c/28		
PR18	90x90	30 / 20	3ø10c/28	3ø10c/27		

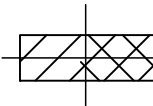


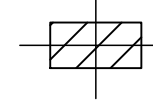


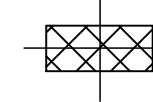
Nível 0 m
Piso
Escala: 1:50

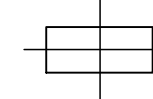


Nível 3,60 m
Piso
Escala: 1:50

 Pilar com mudança de seção

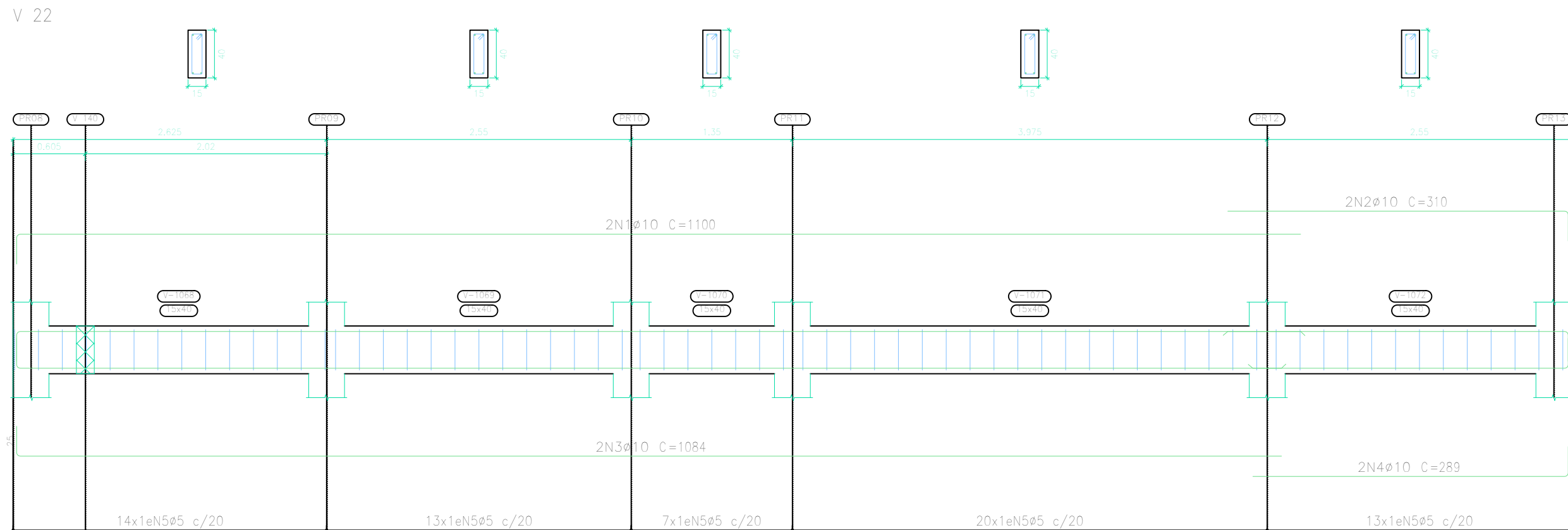
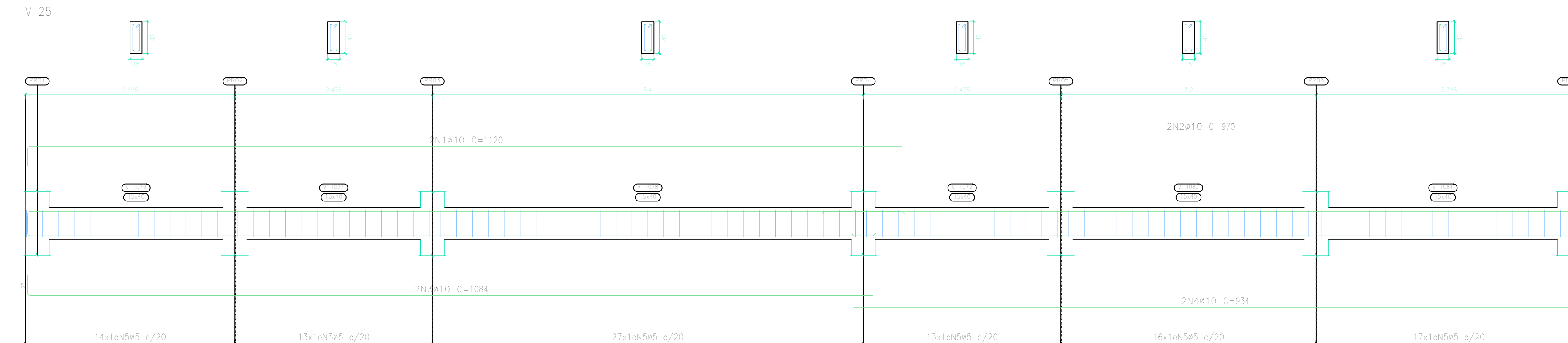
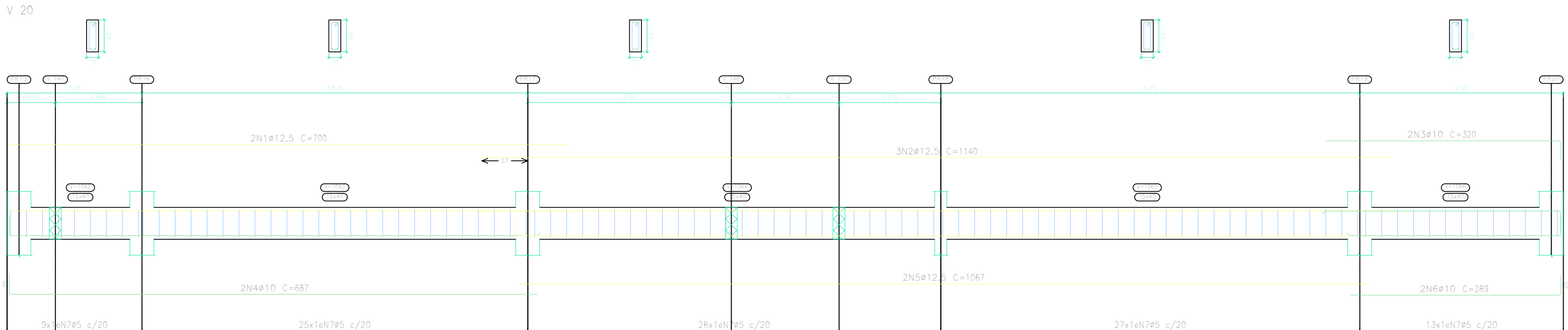
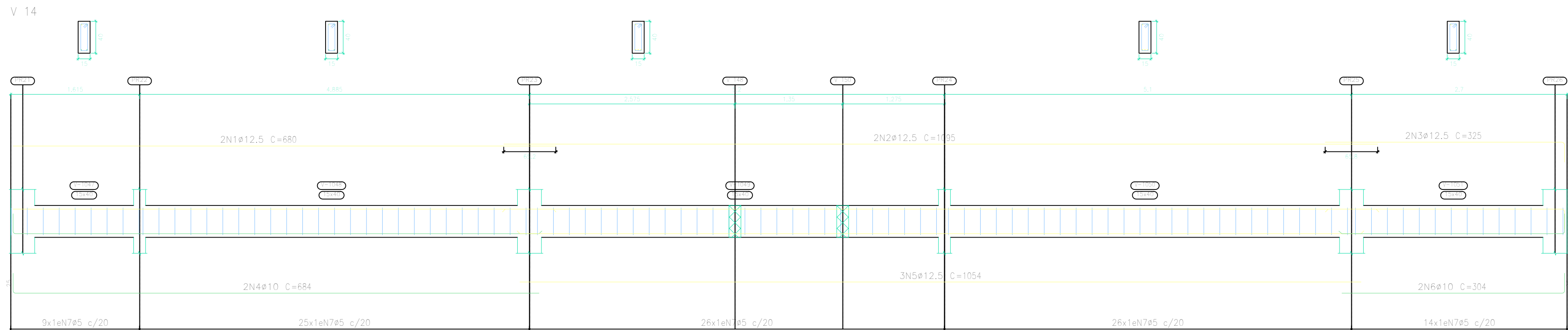
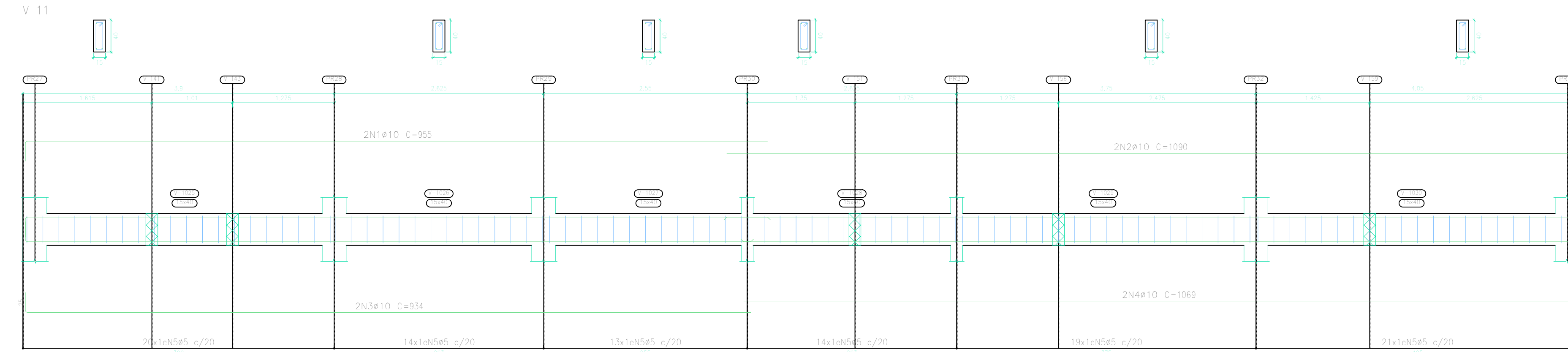
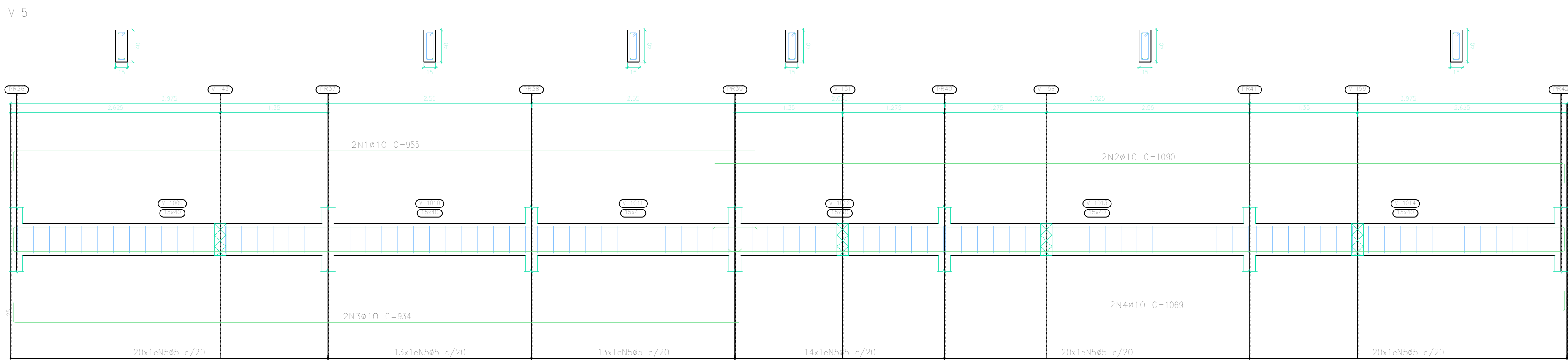
 Pilar que morre

 Pilar que continua

 Pilar que nasce

Concreto Vigas: C25, volume total (26,70 m³)

 INSTITUTO FEDERAL Sertão Pernambucano	INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA SERTÃO PERNAMBUCANO DIRETORIA DE ENGENHARIA E INFRAESTRUTURA Rua Aristarco Lopes, 240 Centro Petrolina/PE CEP: 56.302-100	NOME: PROJETO ESTRUTURAL DO CAMPUS ARARIPINA DO IF Sertão PE
	ENDEREÇO: Av. Recife, S/N, CEP: 56280-000 Araripina/PE	DATA: ABRIL/2025
DESCRIÇÃO: FÔRMAS DE VIGAS/LAJES (REFEITÓRIO)	ESCALA: 1/50	FRANCHA: 04/09
ASSINATURA/CARIMBO - DIREÇÃO GERAL:	ASSINATURA/CARIMBO - RESPONSÁVEL TÉCNICO: Ebson Alves da Silva - CREA PE 055750	



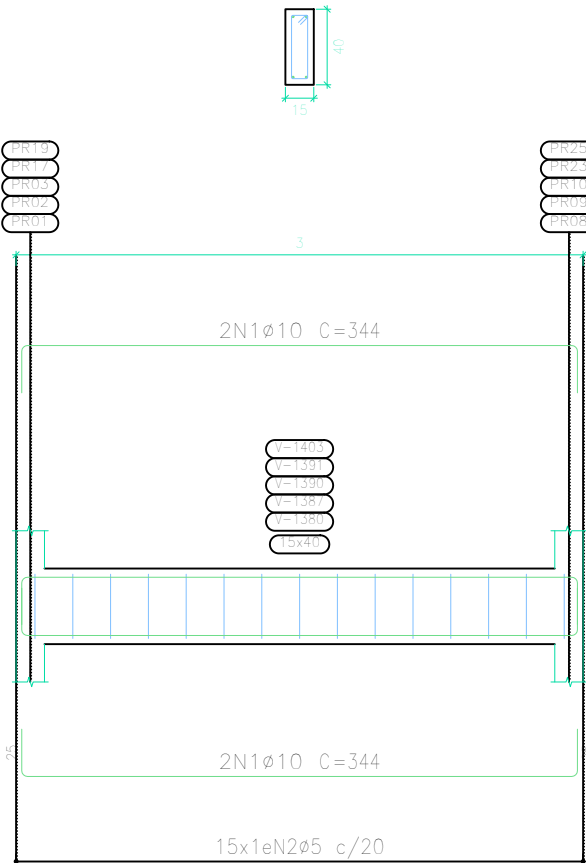
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
V 5	1	ø10	2		855	1590	11,8
	2	ø10	2		1050	2150	13,4
	3	ø10	2		834	1668	11,5
	4	ø10	2		1069	2137	13,2
	5	ø5	100		94	9400	14,8
						Totais 1058	57,2
V 11	1	ø10	2		855	1590	11,8
	2	ø10	2		1050	2150	13,4
	3	ø10	2		834	1668	11,5
	4	ø10	2		1069	2137	13,2
	5	ø5	101		94	9494	14,9
						Totais 1058	57,3
V 14	1	ø12,5	2		885	1340	13,1
	2	ø12,5	2		1090	2179	21,1
	3	ø12,5	2		325	650	6,3
	4	ø10	2		684	1368	8,4
	5	ø12,5	2		1054	2108	20,5
	6	ø10	2		334	668	5,7
	7	ø5	100		94	9400	14,8
						Totais 1058	67,2
V 20	1	ø12,5	2		700	1400	12,5
	2	ø12,5	2		1140	2280	22,9
	3	ø10	2		440	880	8,9
	4	ø10	2		680	1374	8,5
	5	ø12,5	2		1060	2134	20,6
	6	ø10	2		289	578	5,6
	7	ø5	100		94	9400	14,8
						Totais 1058	67,6
V 22	1	ø10	2		1100	2200	13,6
	2	ø10	2		310	620	3,8
	3	ø10	2		1084	2168	13,4
	4	ø10	2		289	578	5,6
	5	ø5	87		94	8238	9,9
						Totais 1058	48,7
V 25	1	ø10	2		1120	2240	13,8
	2	ø10	2		970	1940	12,0
	3	ø10	2		1084	2168	13,4
	4	ø10	2		934	1868	11,5
	5	ø5	100		94	9400	14,8
						Totais 1058	52,3
						ø5:	89,0
						ø10:	212,0
						ø12,5:	138,0
						Total:	435,0

Resumo: Apo Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50 ø5	533,92	90,45	
ø10	335,42	227,65	
ø12,5	143,16	151,65	469,7

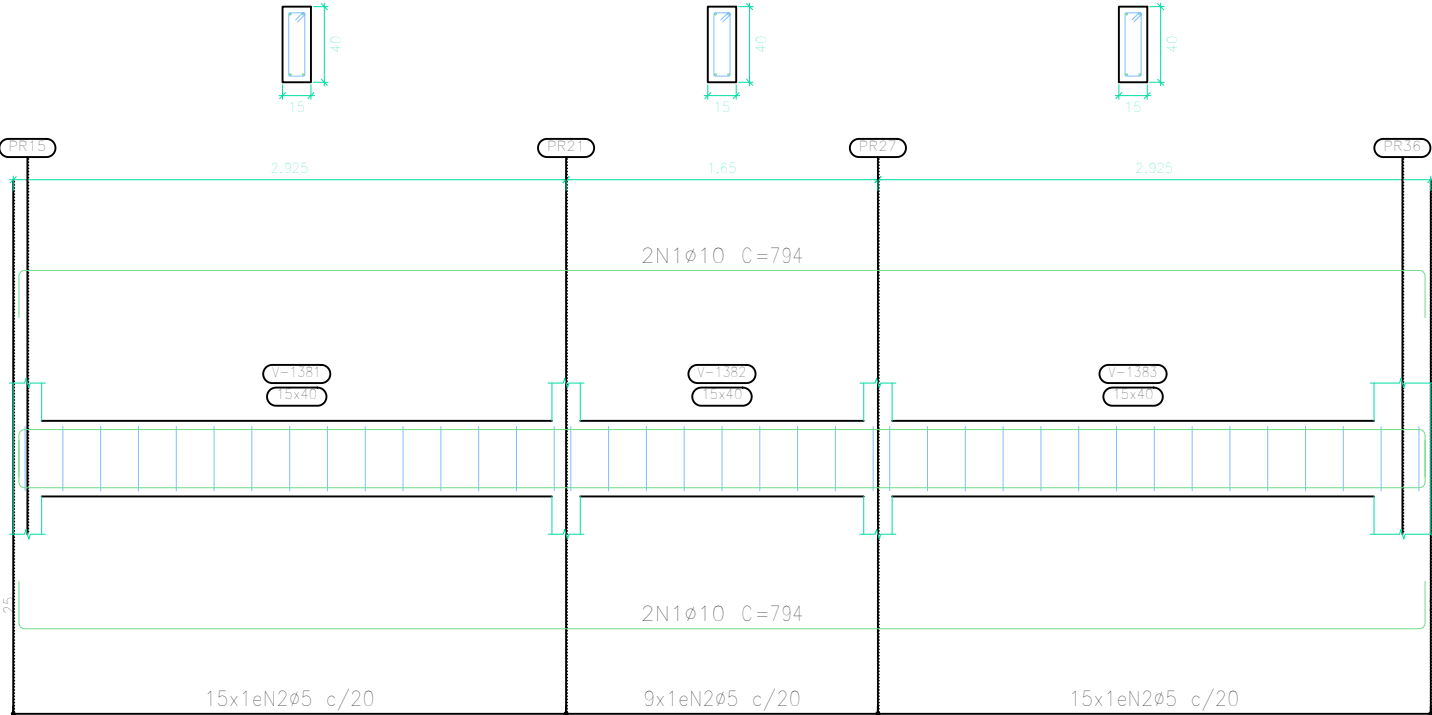
Concreto Vigas: C25, volume total (26,70 m³)

Nível: 0 m
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50
Aço das estribos: CA-50
Escala vigas: 1:40
Escala seções: 1:40
Escala aberturas: 1:40

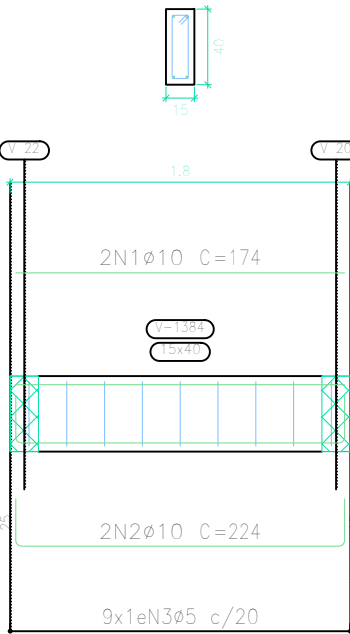
V 138
V 142
V 145
V 146
V 158



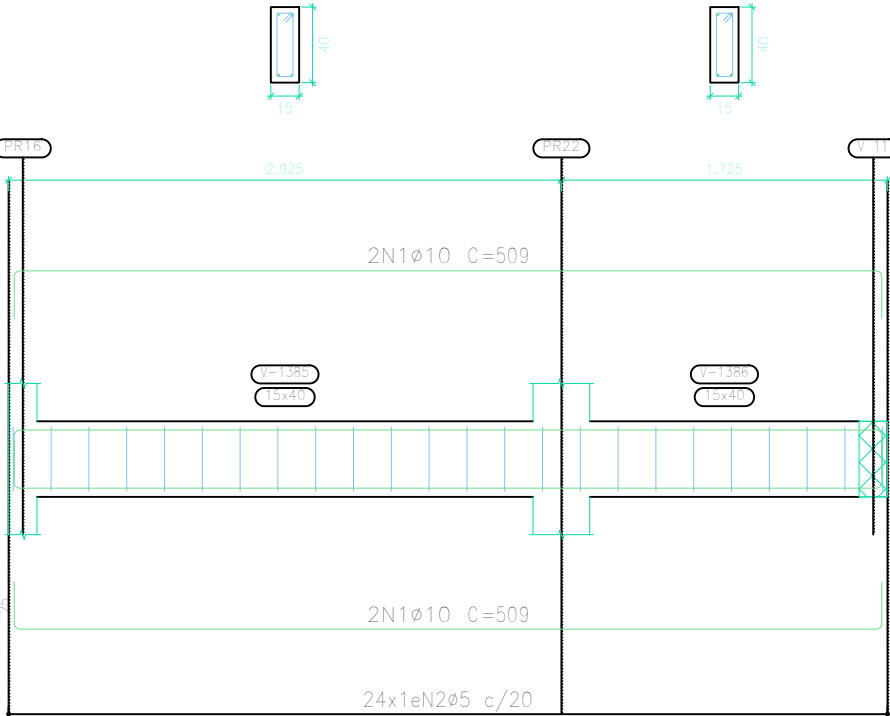
V 139



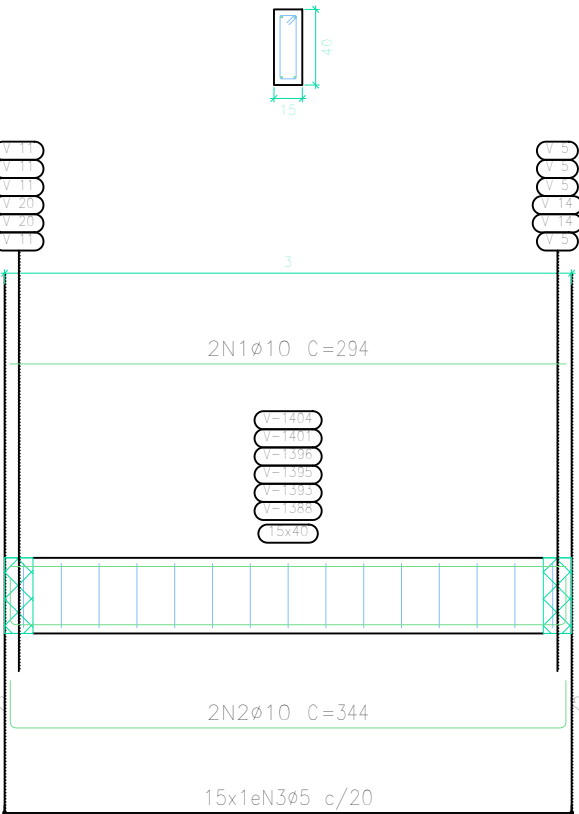
V 140



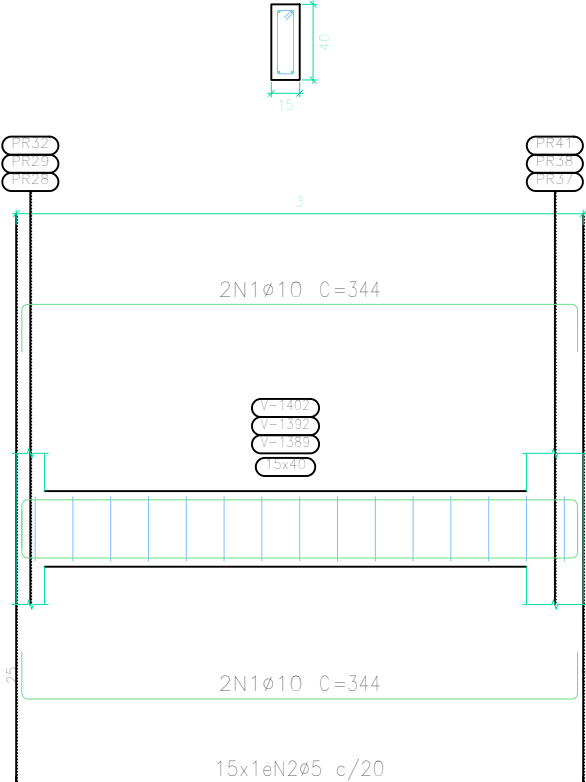
V 141



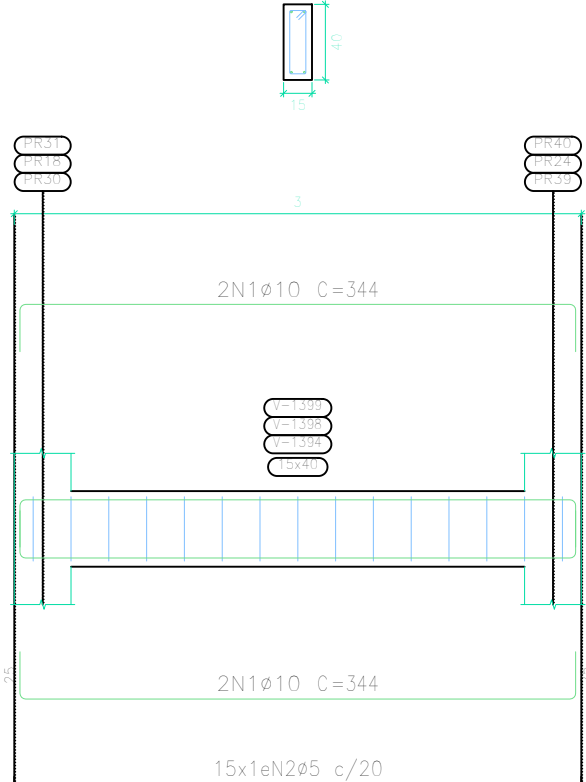
V 143
V 148
V 150
V 151
V 156
V 159



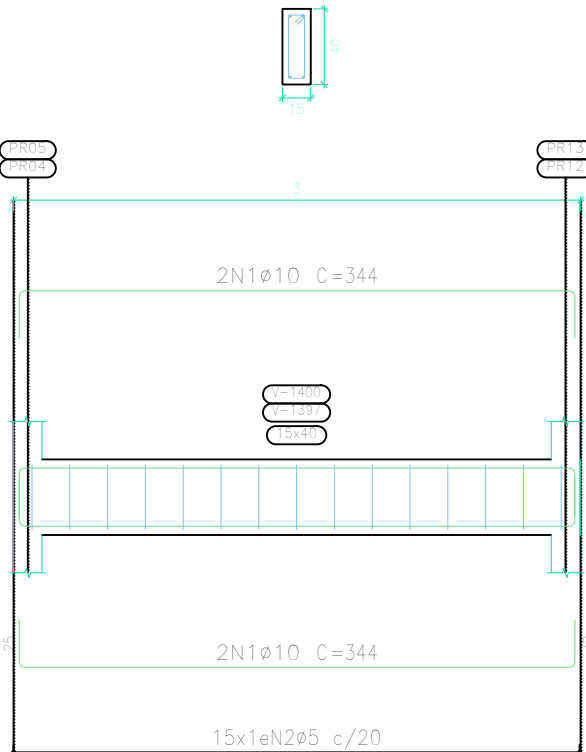
V 144
V 147
V 157



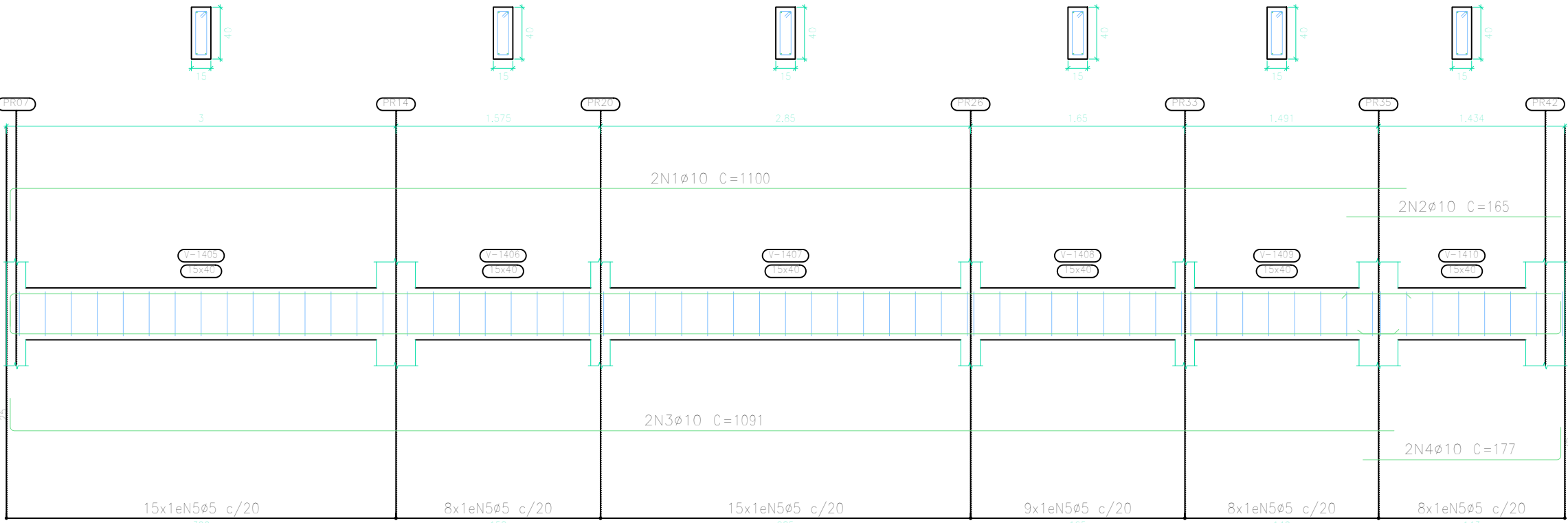
V 149
V 153
V 154



V 152
V 155



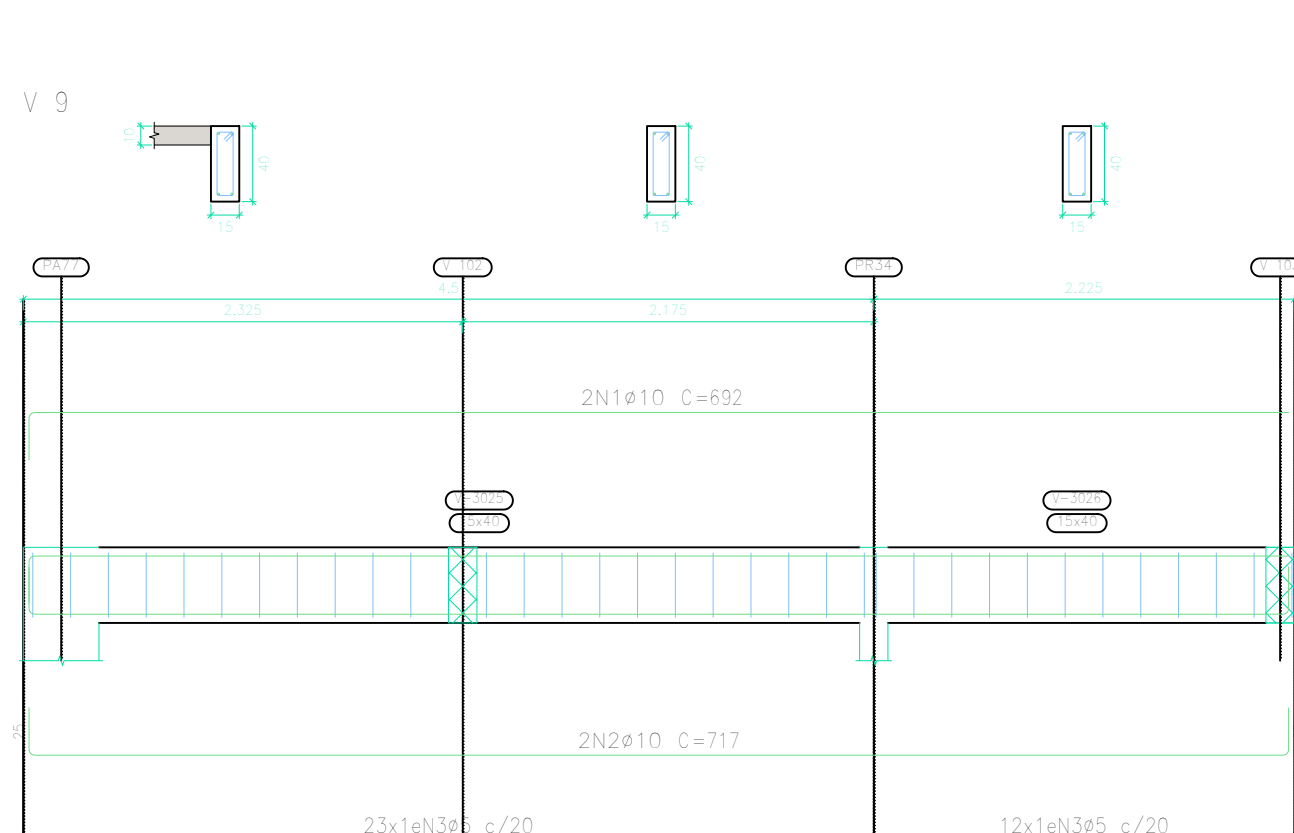
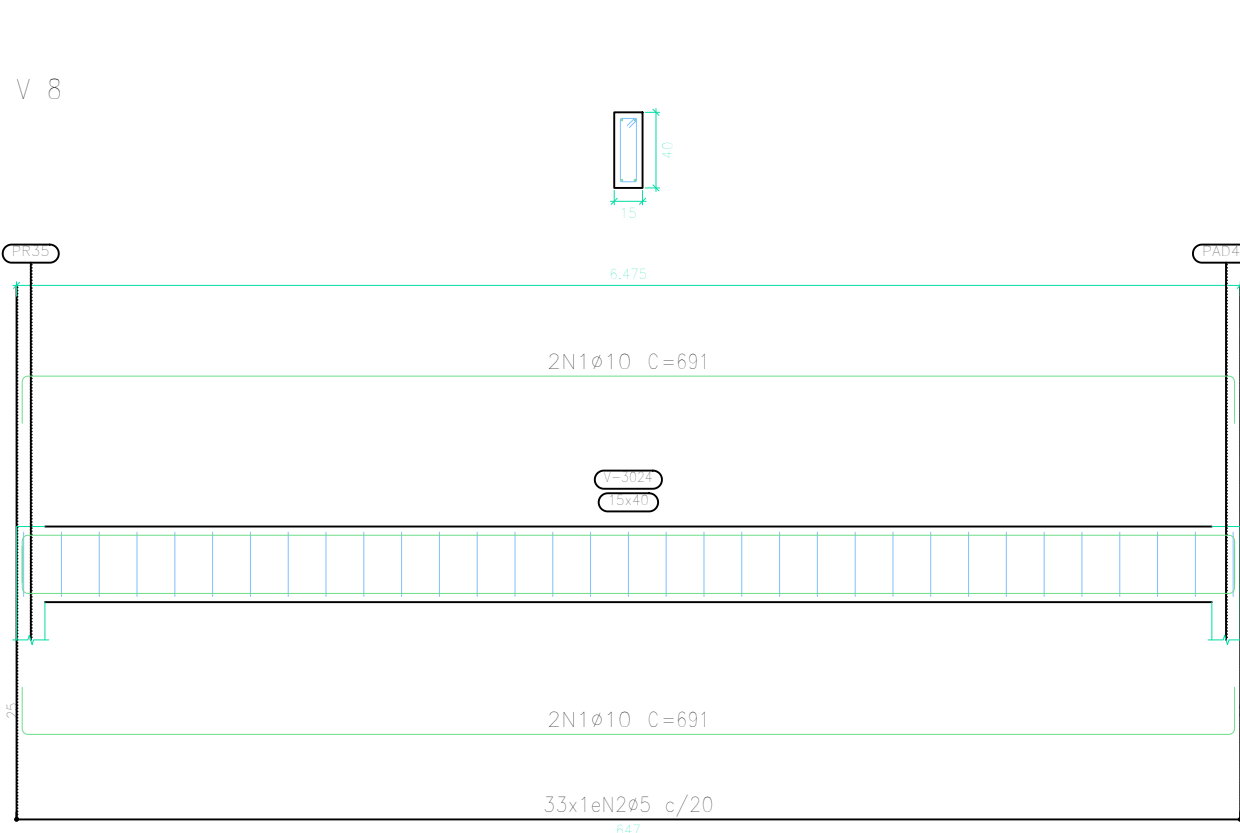
V 160



Resumo Aço Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50 ø5 ø10	372,24 326,18	62,24 221,38	283,62

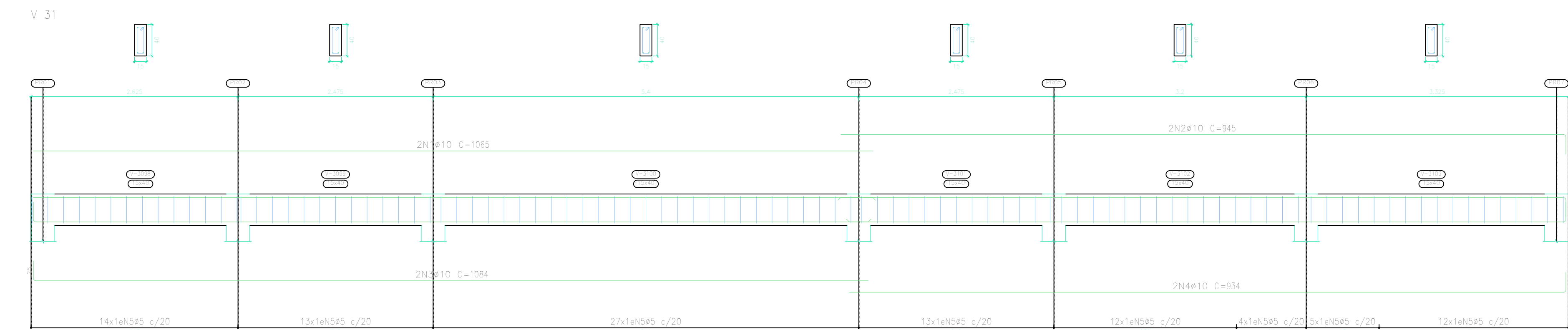
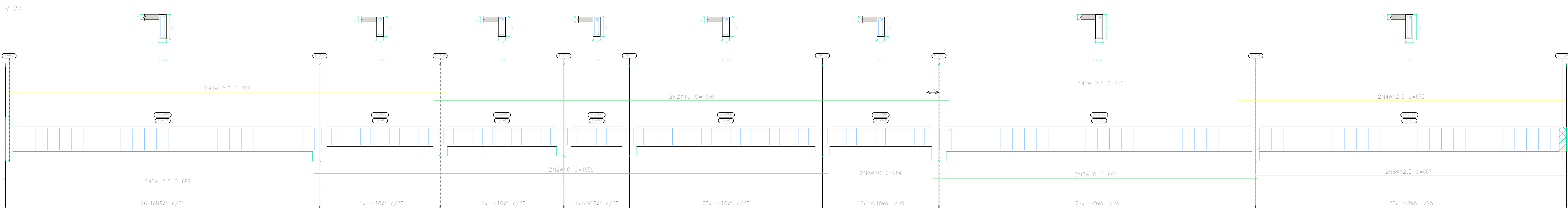
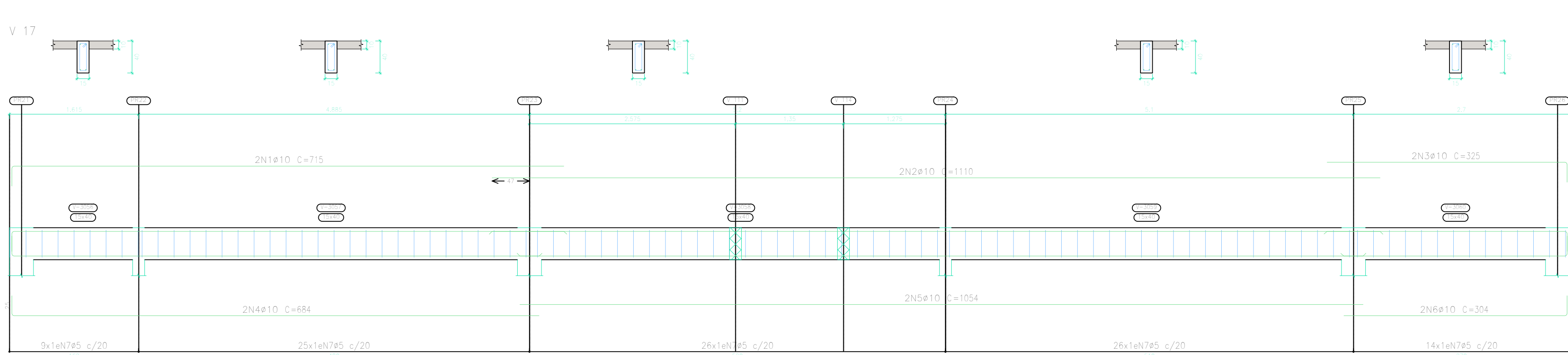
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
V 138=v 142=v 145 V 146=v 158	1	ø10	4		344	1376	8,5
	2	ø5	15		94	1410	2,2
	Total+10% (x5)						11,8 59,0
V 139	1	ø10	4		794	3176	19,6
	2	ø5	39		94	3666	5,8
	Total+10% (x5)						27,9
V 140	1	ø10	2		174	348	2,1
	2	ø10	2		224	448	2,8
	3	ø5	9		94	846	1,3
V 141	1	ø10	4		509	2036	12,5
	2	ø5	24		94	2256	3,5
	Total+10% (x5)						17,6
V 143=v 148=v 150 V 151=v 156=v 159	1	ø10	2		294	588	3,6
	2	ø10	2		344	688	4,2
	3	ø5	15		94	1410	2,2
V 144=v 147=v 157	1	ø10	4		344	1376	8,5
	2	ø5	15		94	1410	2,2
	Total+10% (x5)						11,8 59,0
V 149=v 153=v 154	1	ø10	4		344	1376	8,5
	2	ø5	15		94	1410	2,2
	Total+10% (x5)						11,8 59,0
V 152=v 155	1	ø10	4		344	1376	8,5
	2	ø5	15		94	1410	2,2
	Total+10% (x5)						11,8 59,0
V 160	1	ø10	2		1100	2200	13,6
	2	ø10	2		165	330	2,0
	3	ø10	2		1091	2182	13,4
	4	ø10	2		177	354	2,2
	5	ø5	63		94	5922	9,3
Total+10% (x5)						44,6	
						ø5: 59,5 ø10: 225,5	
						Total: 285,0	

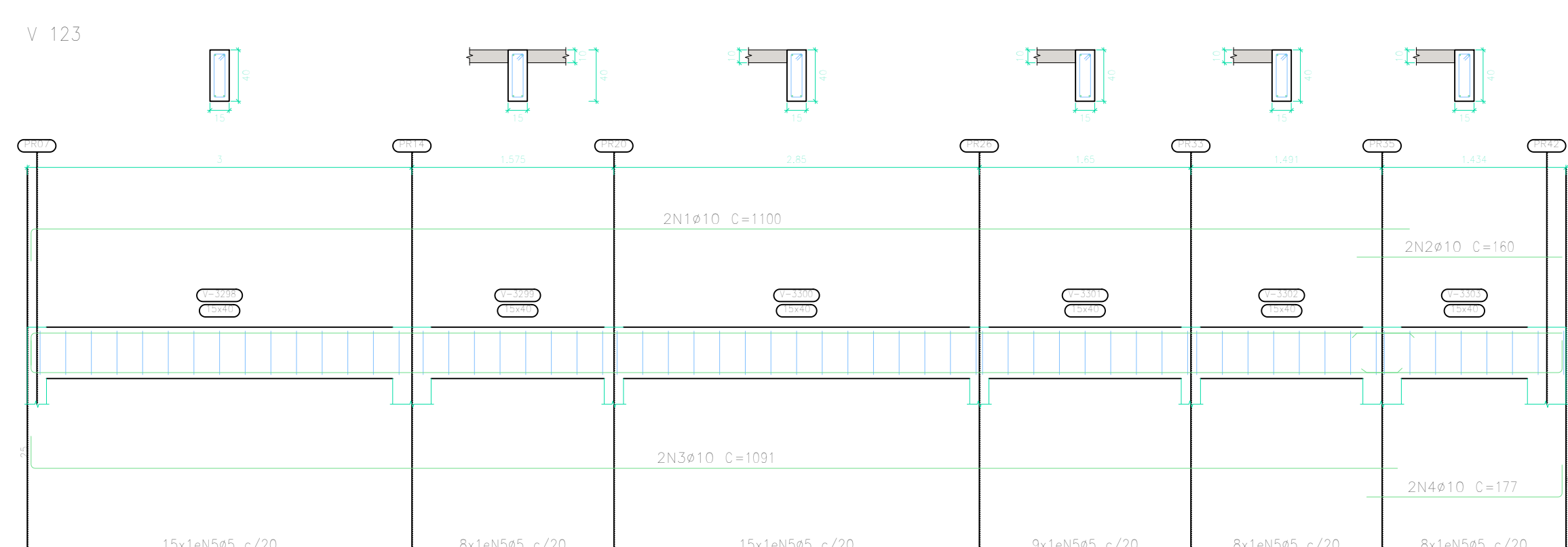
Concreto Vigas: C25, volume total (26,70 m³)



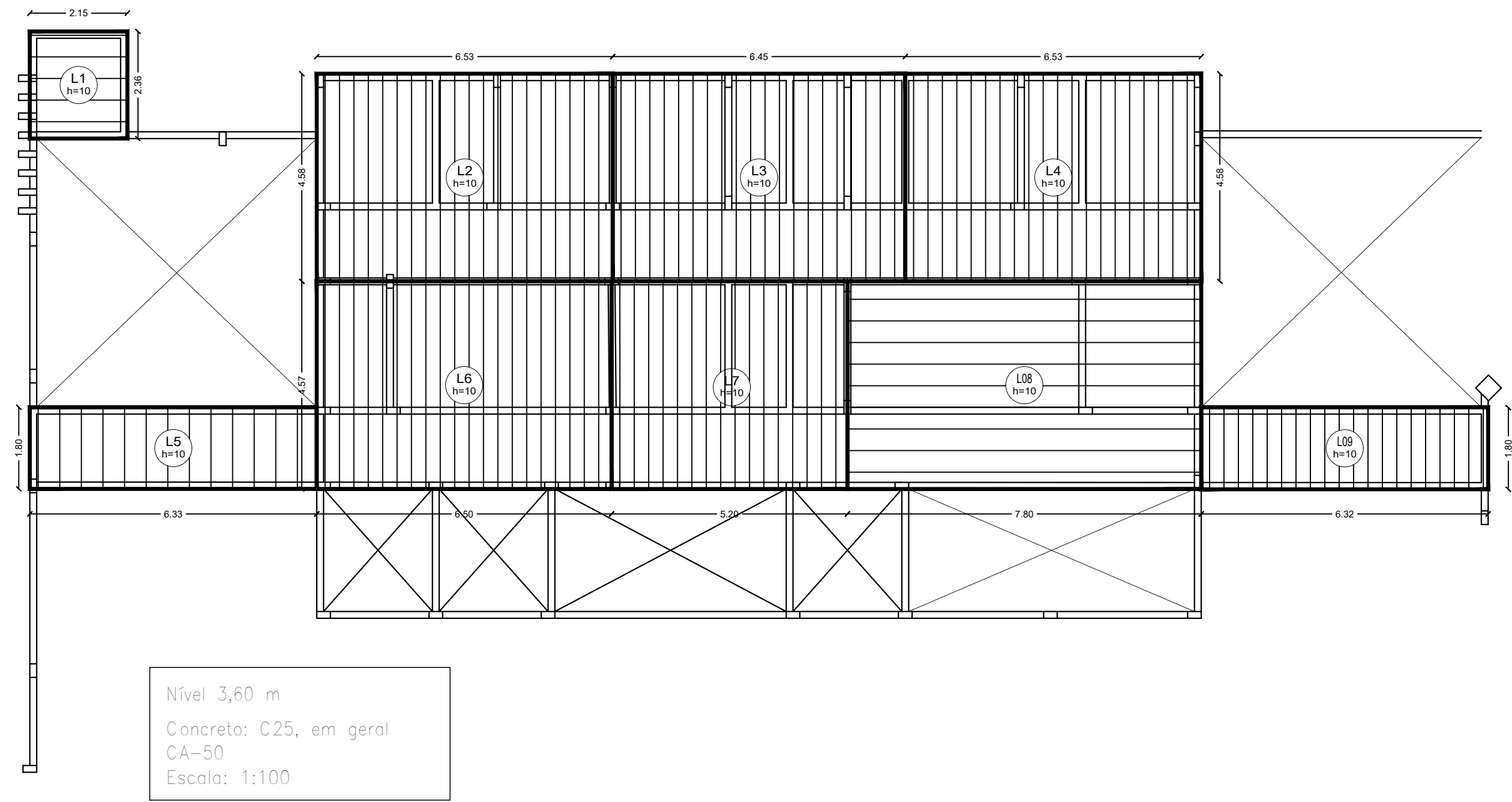
Concreto Vigas: C25, volume total (26,70 m³)

Nível 3,60 m
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50
Aço dos estribos: CA-50
Escala vigas 1:40
Escala seções 1:40
Escala aberturas 1:40

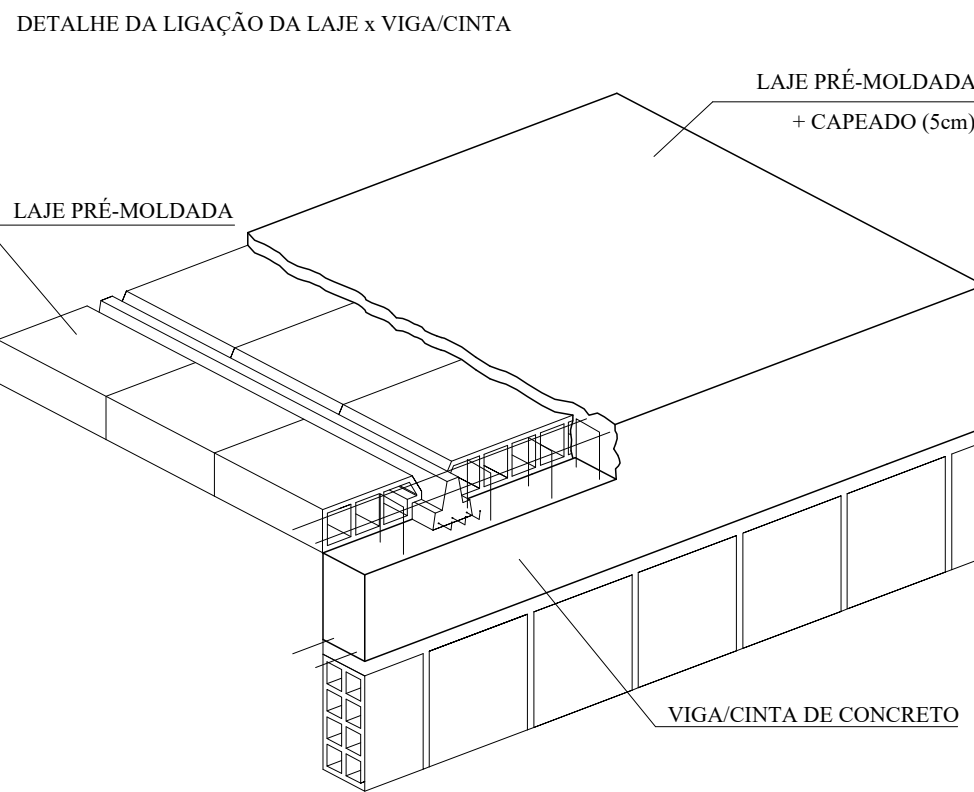
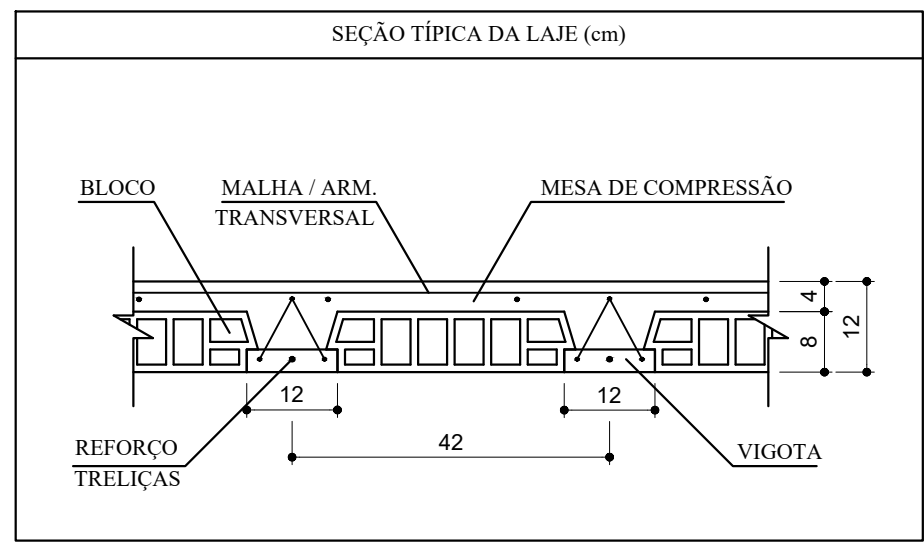
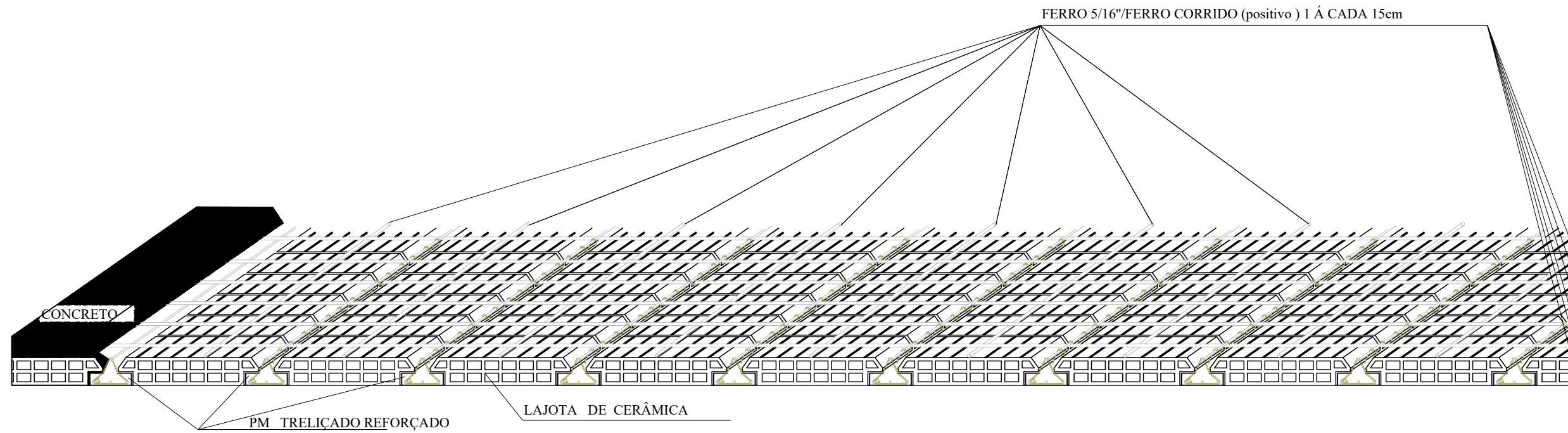


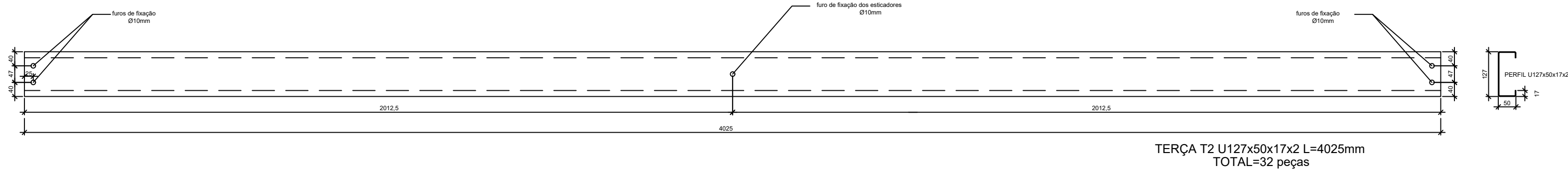
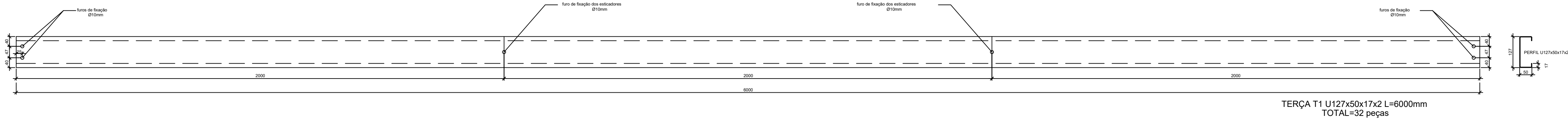


Nível 3,60 m
Desenho de vigas
Concreto: C25, em geral
Aço das barras: CA-50
Aço dos estribos: CA-50
Escala vigas 1:40
Escala seções 1:40
Escala aberturas 1:40

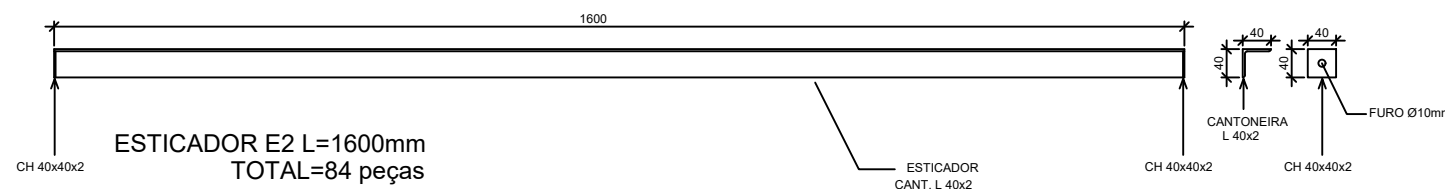


RESUMO DA ÁREA DA LAJE PRÉ-MOLDADA	
LAJES	ÁREA
L01	5,07 m²
L02	29,85 m²
L03	29,51 m²
L04	29,85 m²
L05	11,37 m²
L06	29,75 m²
L07	23,85 m²
L08	35,70 m²
L09	11,43 m²
ÁREA TOTAL	206,38 m²

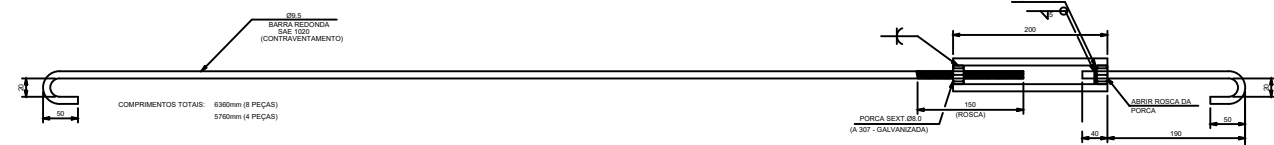




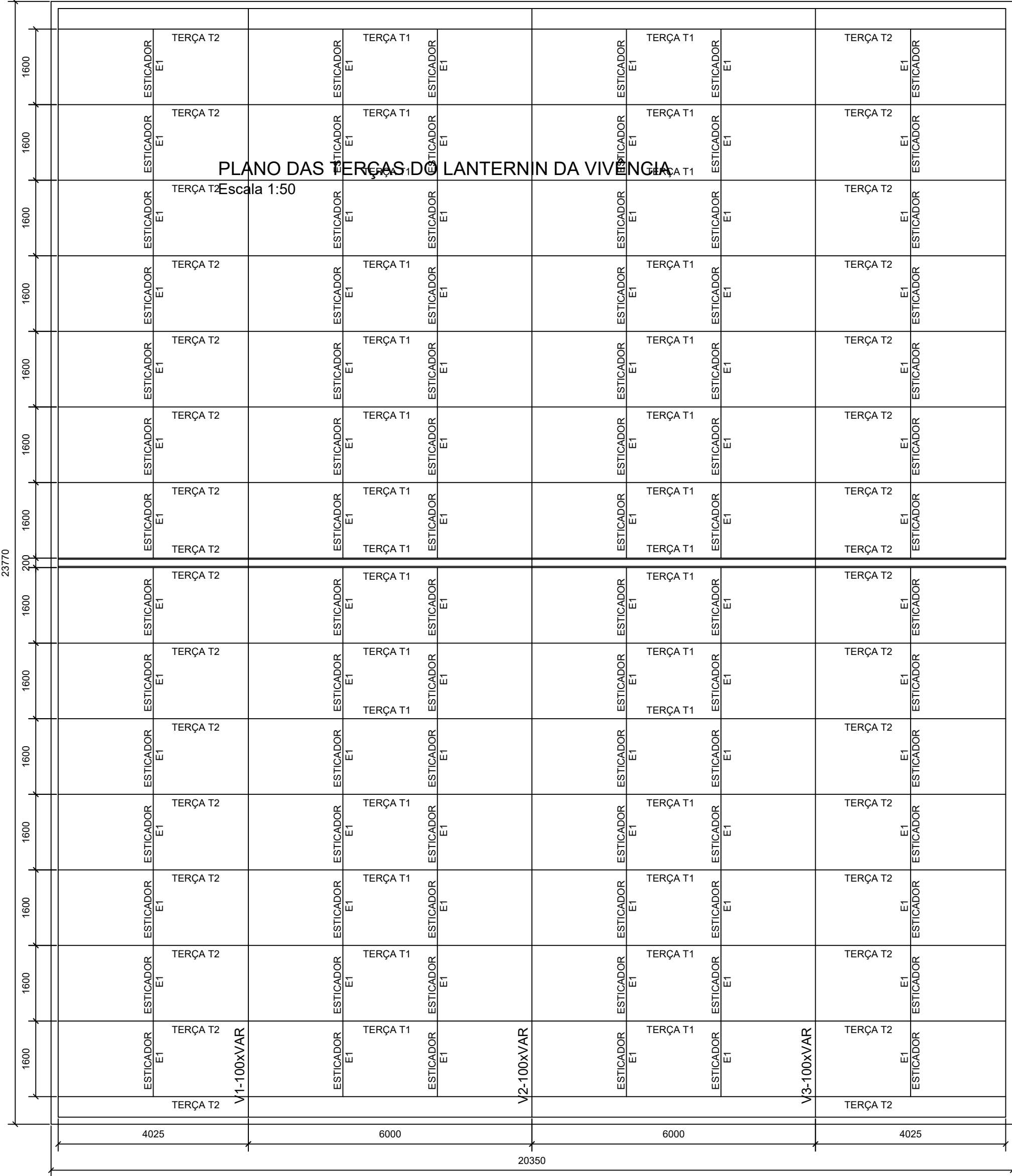
DETALHE DAS TERÇAS
1:5



ESTICADORES
1:5



CONTRAVENTAMENTO
1:5



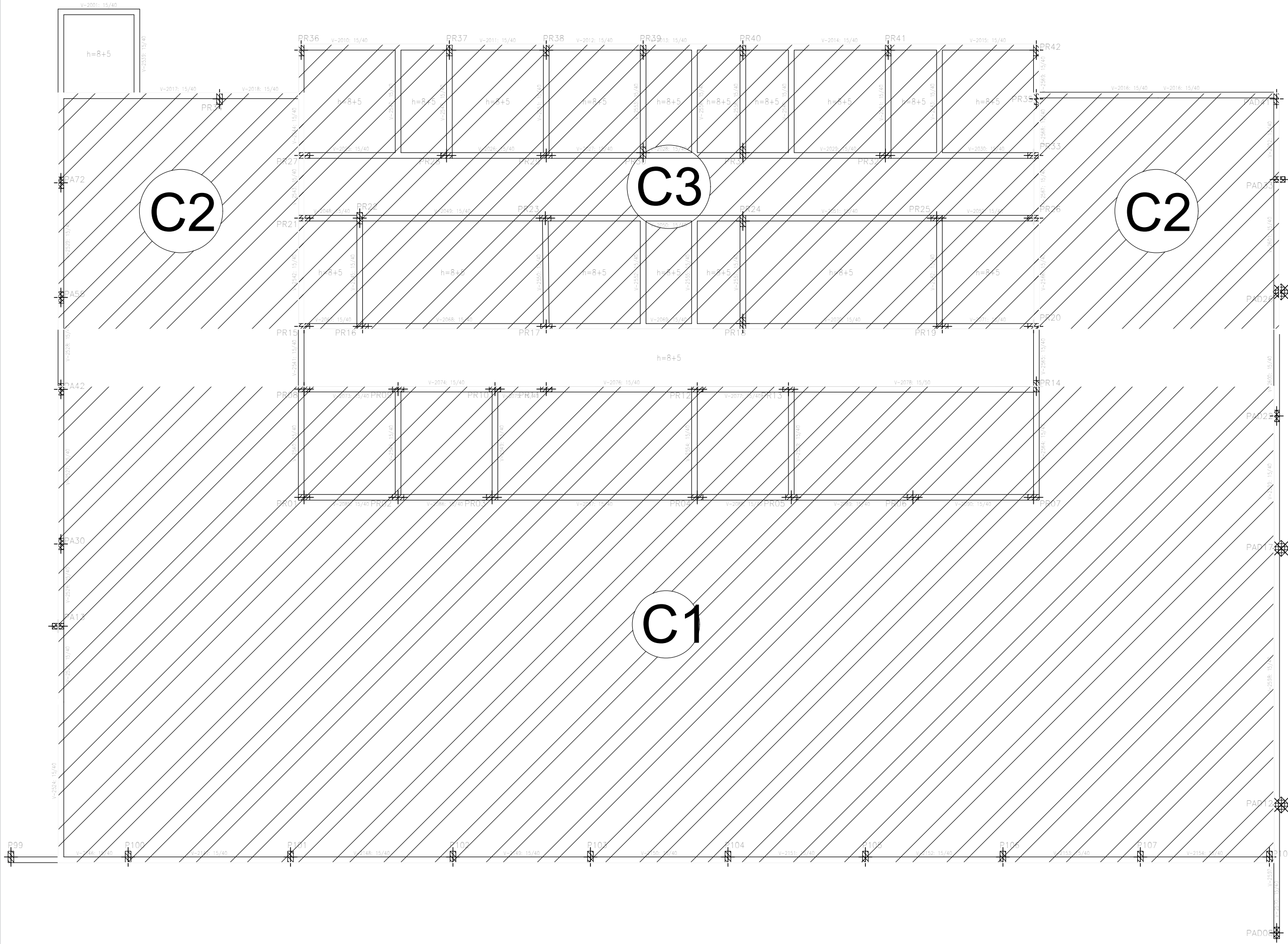
PLANO DAS TERÇAS DA COBERTA DOS LABORATÓRIOS ESPECIAIS
Escala 1:50

NOTAS

- 1- PARA TODAS AS PEÇAS DE AÇO DEVERÁ SER UTILIZADO BASE ("PRIMER") CROMATO DE ZINCO
- 2- VERIFICAR A UTILIZAÇÃO ADEQUADA DOS ELETRODOS PARA O TIPO DE AÇO UTILIZADO
- 3- TODOS OS PARAFUSOS DEVERÃO SER DO TIPO ASTM A-307
- 4- TODAS AS LIGAÇÕES COM PARAFUSOS DEVERÃO SER ACOMPANHADAS DE ARRUELAS NAS DUAS EXTREMIDADES

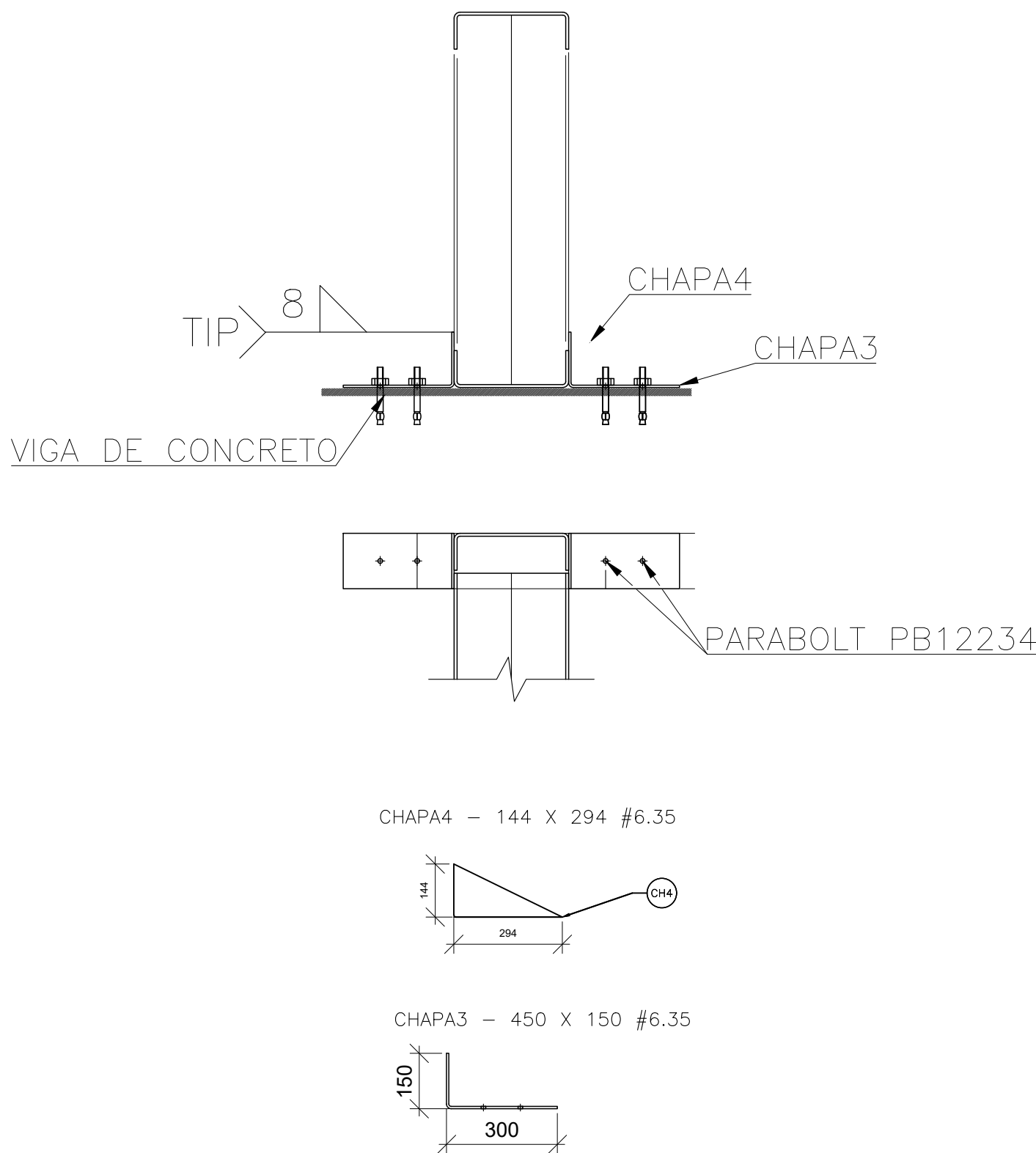
PLANTA DE LOCALIZAÇÃO

ESC: 1/ 100



DETALHE SUPORTE TRELIÇAS (32x)

ESC: 1/ 15



Lista de Material - Projeto								
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA
1		1		CHUMBADEIROS				
2	CH3	48	#	450 x 150 #6.35	150	3.36	161.51	6.85
3	CHA	96	#	6.35x143.65	294	2.10	201.86	8.63
PESO TOTAL							363.37 kgf	
ÁREA DE PINTURA								15.48 m²

NOTAS:

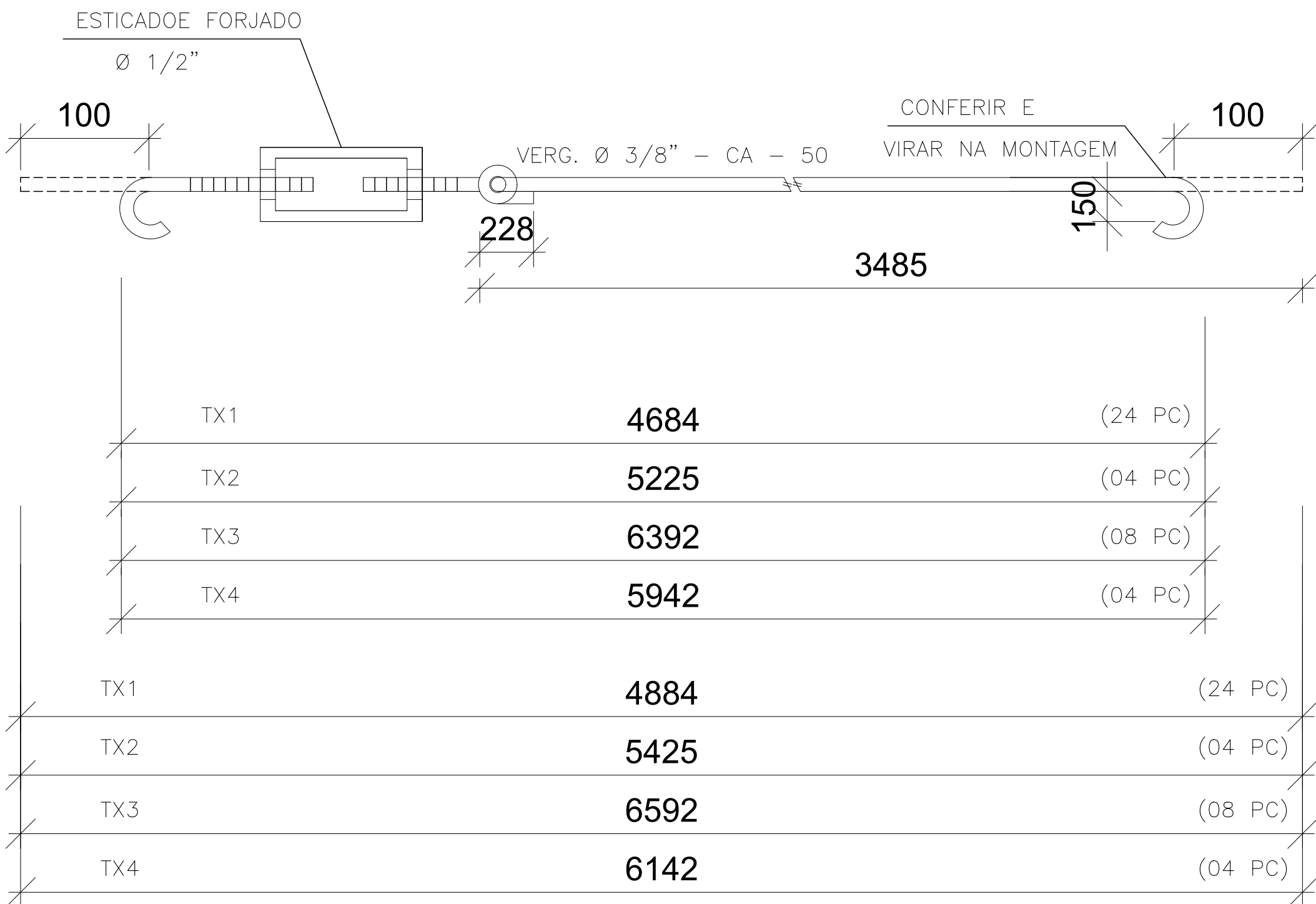
- 1- MEDIDAS EM MILÍMETROS
- 2- PEÇAS VERIFICADAS NA ANÁLISE GLOBAL E LOCAL SEGUNDO A NBR 8800
- 3- USAR SOLDA DE ELETRODOS REVESTIDOS AWS E-6013 OU SIMILARES COM TENSÃO DE RUPTURA ENTRE 480-520 MPA
- 4- USAR PARAFUSOS E PORCAS SAE 1020
- 4- USAR PARABOLTS ZINCADOS DE BAIXO TEOR DE CARBONO
- 4- CONFERIR MEDIDAS IN LOCO
- 5- EM CASO DE DUVIDA CONSULTAR O ENGENHEIRO CALCULISTA.

PREPARO DA SUPERFÍCIE METÁLICA

- 1- LIMPEZA MECANICA NORMA SIS - S13
- 2- APLICAR DUAS DEMÃOS DE TINTA EPOXI MASTIC CURADO COM POLIAMIDA SENDO A 1ª DEMÃO PIGMENTADA COM ALUMÍNIO E A 2ª DEMÃO NA COR DO ACABAMENTO FINAL (TIPO OXIBAR E/OU SUMASTIC), COM ESPESSURA DA PELÍCULA SECA TOTAL APLICADA DE 240MC.

TIRANTE — TX

ESC: 1/ 20



Lista de Material - Projeto								
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA
1		1		TIRANTES				
2	TX1	24	O		12.70	4884	4.86	116.56
3	TX2	4	O		12.70	5425	5.39	21.58
4	TX3	8	O		12.70	6592	6.56	52.44
5	TX4	4	O		12.70	6142	6.11	24.43
PESO TOTAL							215.01 kgf	
ÁREA DE PINTURA								8.64 m²



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Sertão Pernambucano

INSTITUTO FEDERAL DE
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrópolis/PE | CEP: 56.302-100

PROJETO DE ESTRUTURA METÁLICA DO
CAMPUS ARARIPINA DO IF Sertão PE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:
LOCALIZAÇÃO E FIXAÇÃO (REFEITÓRIO)

ASSINATURA/CARIMBO - DIREÇÃO GERAL

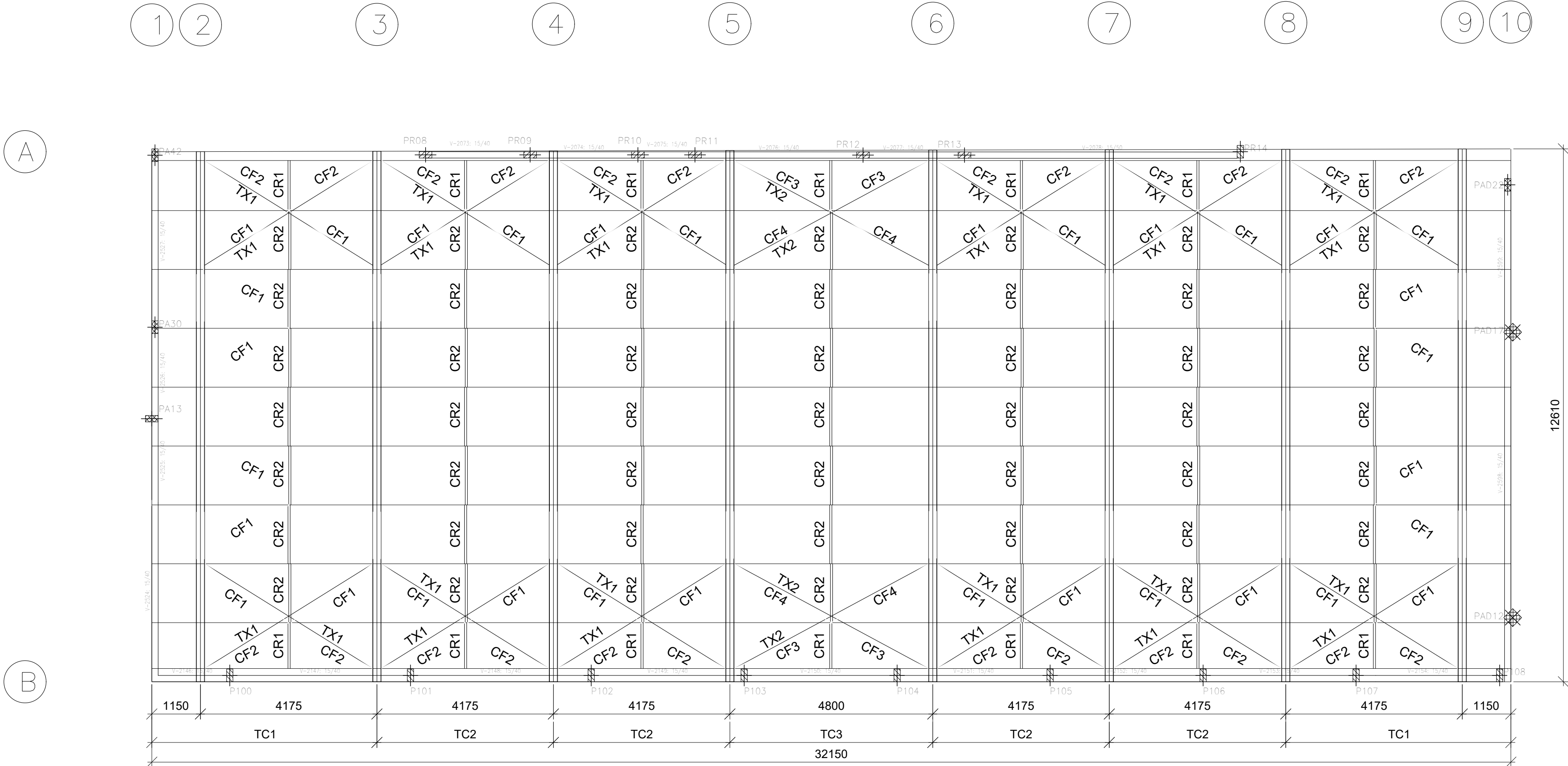
ASSINATURA/CARIMBO - RESPONSÁVEL TÉCNICO:
Ebson Alves da Silva - CREA PE 055750

INDICADA

DATA:
ABRIL/2025

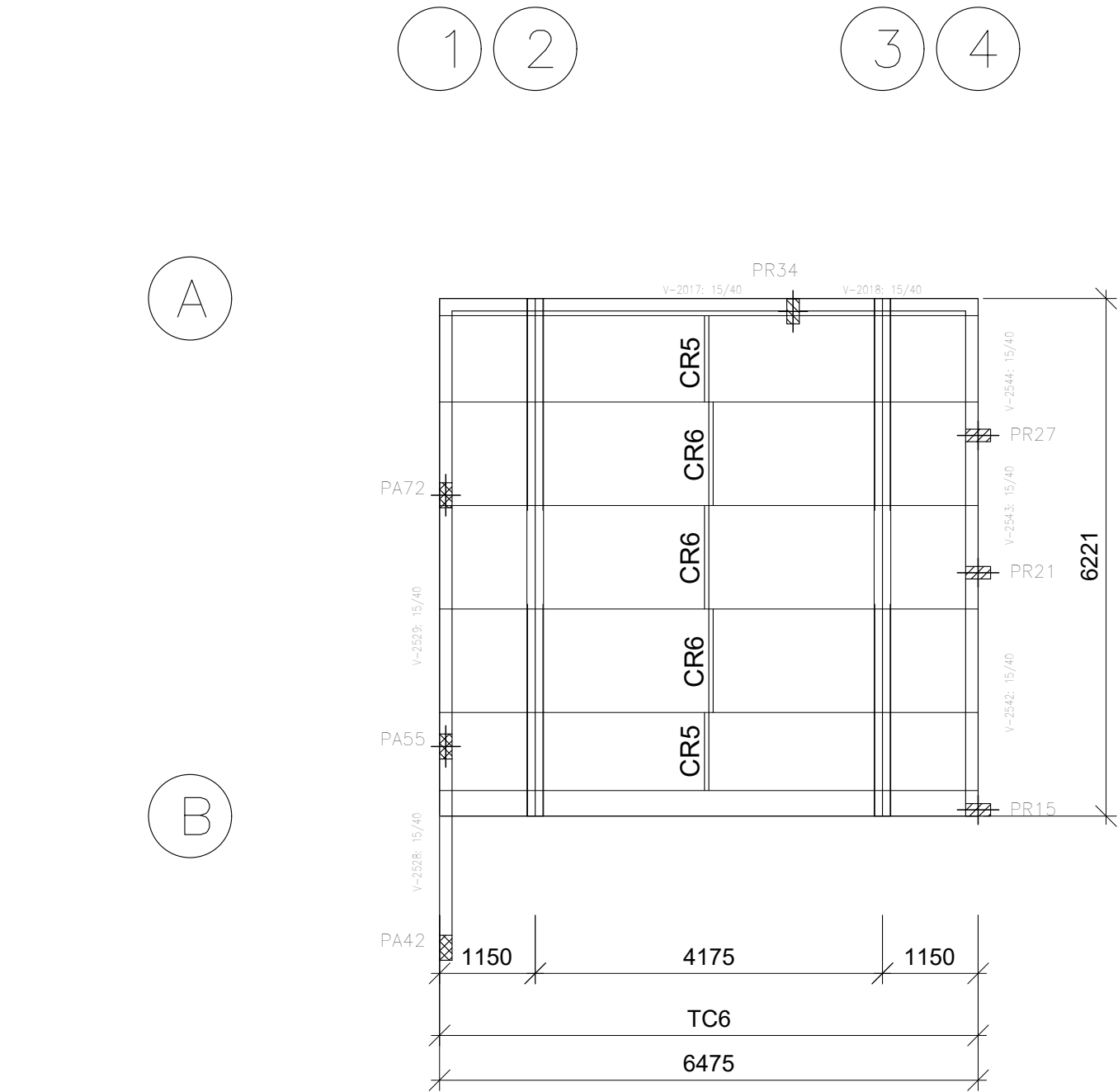
01/07

PLANTA DE LOCAÇÃO 1
ESC: 1/ 75

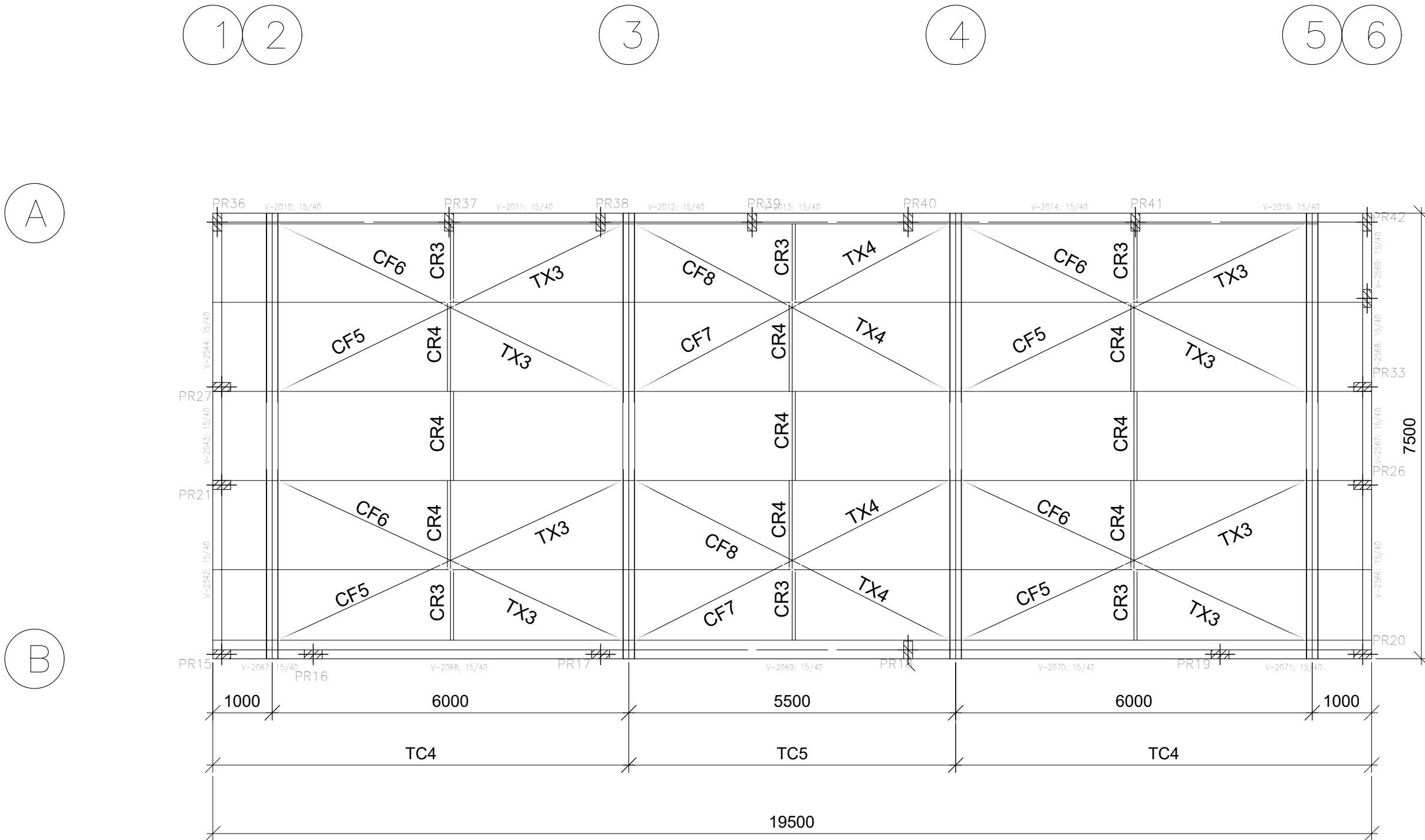


Lista de Material - Projeto									
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA	OBSERVAÇÕES
1	a	8		TRELIÇA 1	440.53	5192.21	188.66		
2	b	8		200 x 50 x 8	12604	216.64	1733.12	7.11	
3	b	8		200 x 50 x 8	1329	22.84	182.76	0.75	
4	c	8		200 x 50 x 8	1362	23.40	187.22	0.77	
5	d	8		200 x 50 x 8	1549	28.63	213.05	0.88	
6	e	8		200 x 50 x 8	1562	28.84	214.75	0.88	
7	f	16		200 x 50 x 8	1779	30.66	490.52	2.02	
8	g	8		200 x 50 x 8	871	15.08	120.62	0.50	
9	h	16		200 x 50 x 8	2030	34.93	558.88	2.30	
10	i	8		200 x 50 x 8	1108	19.00	152.03	0.63	
11	j	8		200 x 50 x 8	603	9.29	74.32	0.29	
12	k	8		200 x 50 x 8	517	8.89	71.15	0.30	
13	l	8		200 x 50 x 8	684	11.76	94.06	0.39	
14	m	8		200 x 50 x 8	851	11.63	97.11	0.48	
15	n	8		200 x 50 x 8	1017	17.48	139.87	0.58	
16	o	8		200 x 50 x 8	1184	20.35	162.78	0.67	
17	p	8		200 x 50 x 8	1350	23.21	185.69	0.77	
18	q	8		200 x 50 x 8	1517	28.07	208.59	0.86	
19	r	8		200 x 50 x 8	1771	30.44	243.50	1.00	
20	a	4		TRELIÇA 2	427.59	5192.21	188.66		
21	a	4		200 x 50 x 8	6272	107.61	431.24	3.34	
22	b	4		200 x 50 x 8	6193	106.44	426.77	3.49	
23	c	4		200 x 50 x 8	273	4.69	18.75	0.18	
24	d	4		200 x 50 x 8	1270	22.01	176.05	0.65	
25	e	4		200 x 50 x 8	875	15.04	120.62	0.50	
26	f	4		200 x 50 x 8	637	10.95	43.78	0.36	
27	g	4		200 x 50 x 8	885	16.82	134.52	0.56	
28	h	4		200 x 50 x 8	1539	28.29	210.30	0.84	
29	i	4		200 x 50 x 8	785	13.49	106.35	0.45	
30	j	4		200 x 50 x 8	585	10.05	40.20	0.33	
31	k	4		200 x 50 x 8	1252	21.51	172.05	0.71	
32	l	4		200 x 50 x 8	385	6.61	26.45	0.22	
33	m	4		200 x 50 x 8	1018	17.49	139.87	0.58	
34	a	2		TRELIÇA 3	491.84	5192.21	188.66		
35	a	2		200 x 50 x 8	7538	129.56	269.13	4.25	
36	b	2		200 x 50 x 8	7472	128.43	258.85	4.21	
37	c	2		200 x 50 x 8	1219	20.95	171.91	0.68	
38	d	2		200 x 50 x 8	1455	25.01	200.02	0.82	
39	e	2		200 x 50 x 8	1490	25.61	204.82	0.84	
40	f	2		200 x 50 x 8	747	12.84	102.68	0.43	
41	g	2		200 x 50 x 8	1717	29.52	236.03	0.97	
42	h	2		200 x 50 x 8	1729	29.75	238.45	0.98	
43	i	2		200 x 50 x 8	988	16.64	134.28	0.55	
44	j	2		200 x 50 x 8	488	8.89	71.15	0.30	
45	k	2		200 x 50 x 8	384	6.60	26.45	0.22	
46	l	2		200 x 50 x 8	584	10.04	20.07	0.33	
47	m	2		200 x 50 x 8	784	13.47	106.35	0.45	
48	n	2		200 x 50 x 8	984	16.91	136.82	0.56	
49	o	2		200 x 50 x 8	1271	21.84	172.05	0.71	
50	a	1		TERÇAS	3957.48	3957.48	334.69		
51	TC1	20	UEm	150 x 60 x 3 x 20	5320	36.37	727.35	62.44	
52	TC2	40	UEm	150 x 60 x 3 x 20	4165	28.47	1138.87	97.79	
53	TC3	10	UEm	150 x 60 x 3 x 20	4790	32.74	327.44	28.11	
54	TC4	12	UEm	150 x 60 x 3 x 20	6965	47.82	573.81	49.28	
55	TC5	6	UEm	150 x 60 x 3 x 20	5490	37.53	225.18	19.33	
56	TC6	6	UEm	150 x 60 x 3 x 20	6475	44.26	265.58	22.80	
57	ST	94	L	150 x 100 x 3	220	1.27	119.35	10.40	
58	MF	188	L	80 x 80 x 3.35	707	2.87	540.07	42.16	CHAPA1
59	SMF	188	#	4.75x71.01	80	0.21	39.62	2.41	
60	a	1		TIRANTES	215.01	215.01	18.64		
61	TX1	24	O	12.70	4884	4.86	116.56	4.68	
62	TX2	4	O	12.70	5425	5.39	21.58	0.87	
63	TX3	8	O	12.70	6592	6.56	52.44	2.11	
64	TX4	4	O	12.70	6142	6.11	24.43	0.98	
65	a	1		CORRENTES FLEXÍVEIS	226.77	226.77	9.12		
66	CF1	32	O	12.70	2435	2.42	77.33	3.11	
67	CF2	24	O	12.70	2270	2.26	54.18	2.18	
68	CF3	4	O	12.70	2540	2.53	10.10	0.41	
69	CF4	4	O	12.70	2670	2.66	10.62	0.43	
70	CF5	8	O	12.70	3135	3.11	24.90	1.00	
71	CF6	8	O	12.70	3265	3.25	25.97	1.04	
72	CF7	4	O	12.70	2900	2.88	11.54	0.46	
73	CF8	4	O	12.70	3050	3.03	12.13	0.49	
74	a	40		GARRA	12.70	0.18	7.40	0.38	
75	GR	40	O	1.18	300	0.18	7.40	0.01	
76	a	1		CORRENTES RÍGIDAS	296.60	296.60	20.72		
77	CR1	14	L	40 x 40 x 3.75	1090	2.37	33.17	2.38	
78	CR2	49	L	40 x 40 x 3.75	1400	3.04	149.10	10.67	
79	CR3	6	L	40 x 40 x 3.75	940	2.04	12.26	0.88	
80	CR4	6	L	40 x 40 x 3.75	1260	2.74	34.65	1.75	
81	CR5	2	L	40 x 40 x 3.75	1200	2.61	5.22	0.37	
82	CR6	3	L	40 x 40 x 3.75	1510	3.28	8.85	0.70	
83	CH2	186	#	4.35x100	110	0.38	62.35	3.96	CHAPA2
PESO TOTAL								12521.49 kgf	
ÁREA DE PINTURA								630.92 m2	

PLANTA DE LOCAÇÃO 2
ESC: 1/ 75

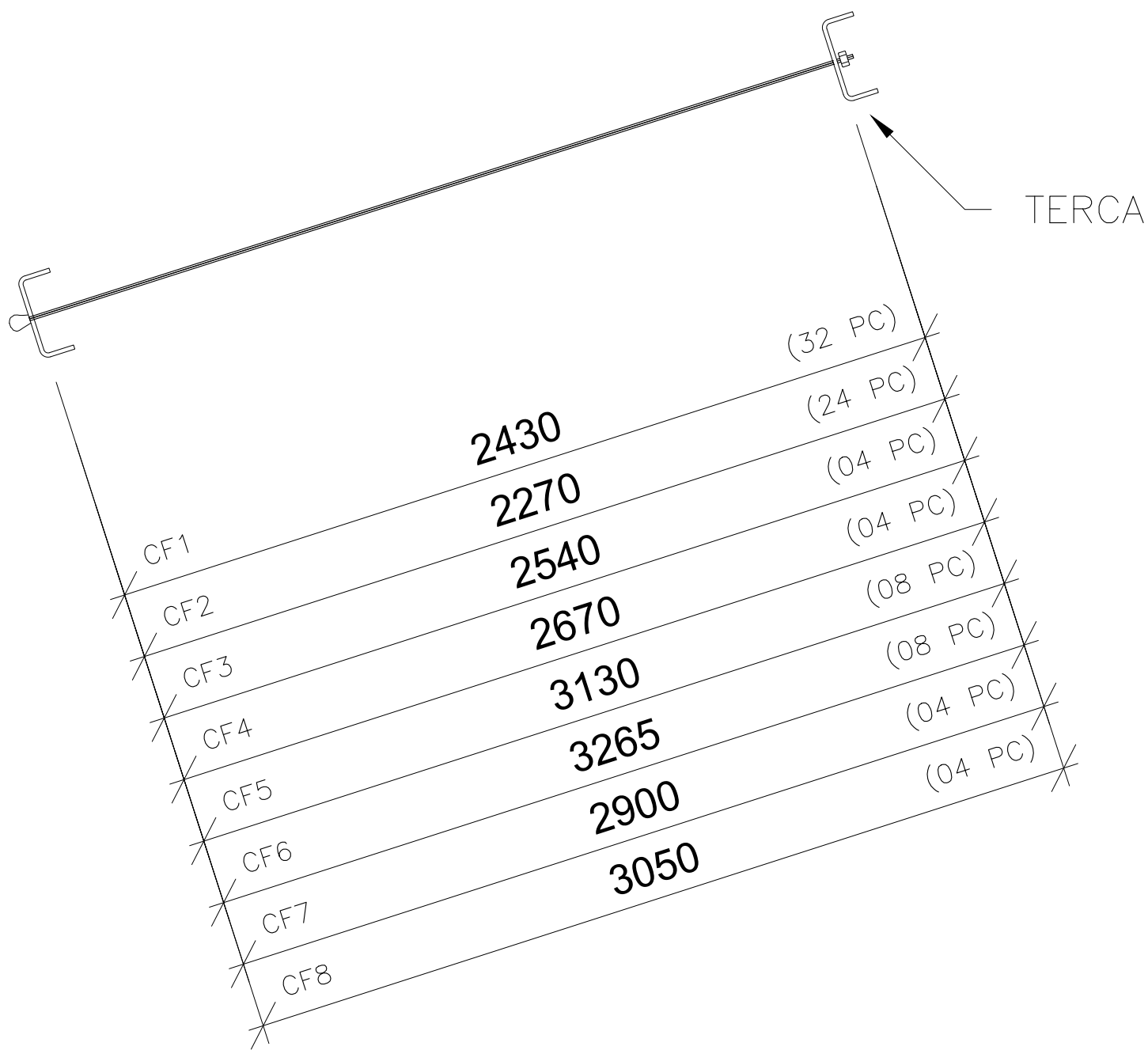


PLANTA DE LOCAÇÃO 3
ESC: 1/ 75



CORRENTE FLEXIVEL- CF

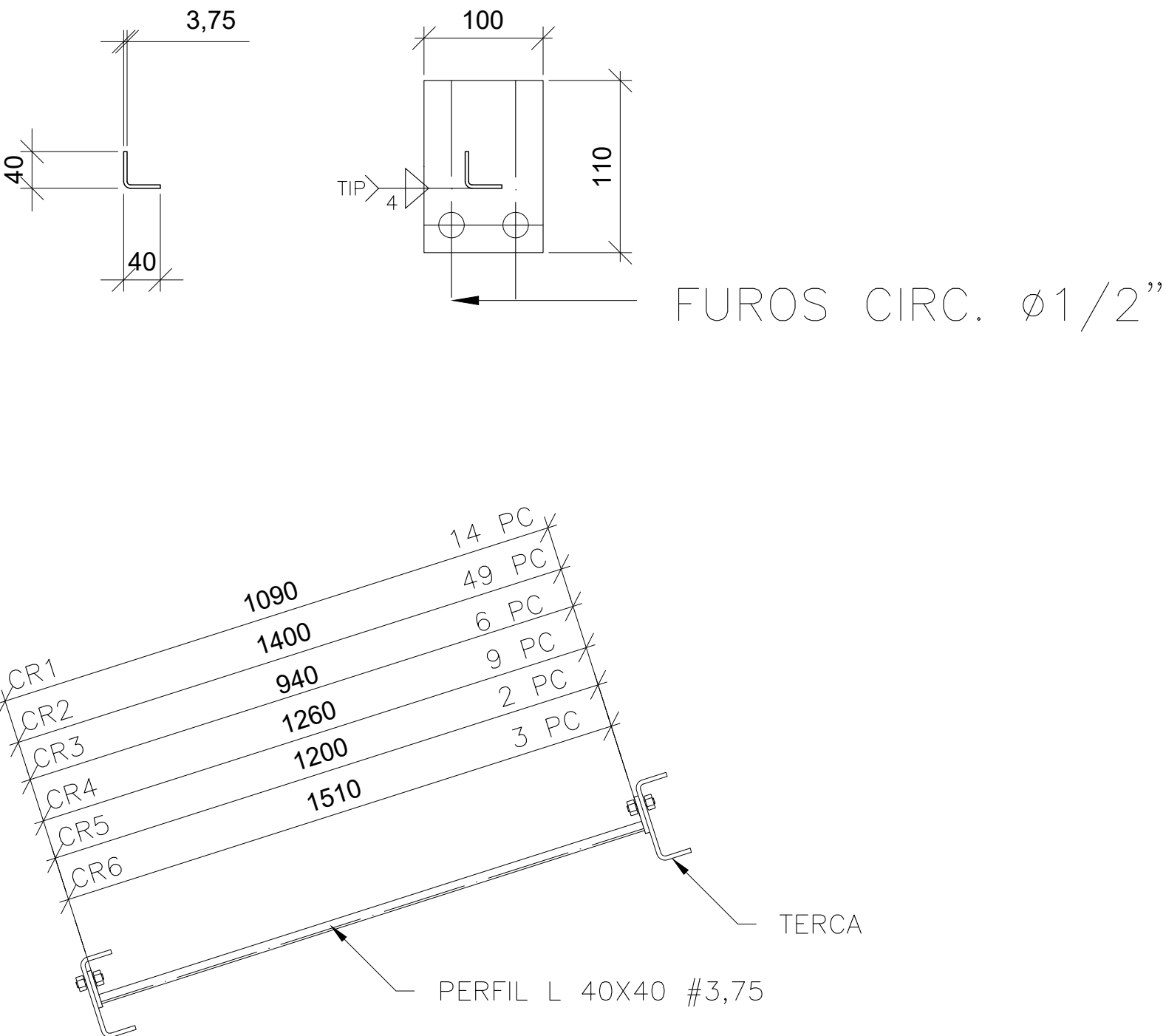
ESC: 1/ 20



CR – CORRENTES RIGIDAS (83x)

ESC: 1/ 15

CHAPA2 – 110 X 100 #4,35 (166x)

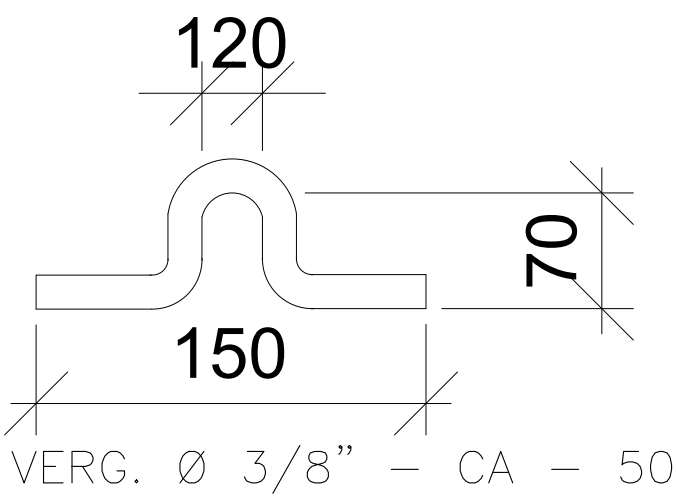


Lista de Material - Projeto								
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA
1	1	1		CORRENTES FLEXIVEIS		226.77	226.77	9.12
2	CF1	32 O			12.70	2430	2.42	77.53
3	CF2	24 O			12.70	2270	2.26	54.18
4	CF3	4 O			12.70	2540	2.53	10.10
5	CF4	4 O			12.70	2670	2.66	10.62
6	CF5	8 O			12.70	3130	3.11	24.90
7	CF6	8 O			12.70	3265	3.25	25.97
8	CF7	4 O			12.70	2900	2.98	11.54
9	CF8	4 O			12.70	3050	3.03	12.13
PESO TOTAL							226.77 kgf	
ÁREA DE PINTURA								9.12 m2

Lista de Material - Projeto								
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA
1	1	1		CORRENTES RIGIDAS		296.60	296.60	20.72
2	CR1	14 L		40 x 40 x 3.75	1090	2.37	33.17	2.38
3	CR2	49 L		40 x 40 x 3.75	1400	3.04	149.10	10.67
4	CR3	6 L		40 x 40 x 3.75	940	2.04	12.26	0.88
5	CR4	9 L		40 x 40 x 3.75	1260	2.74	24.65	1.76
6	CR5	2 L		40 x 40 x 3.75	1200	2.61	5.22	0.37
7	CR6	3 L		40 x 40 x 3.75	1510	3.28	9.85	0.70
8	CH2	166 #		4.35x100	110	0.38	62.35	3.96
PESO TOTAL							296.60 kgf	
ÁREA DE PINTURA								20.72 m2

GARRA – GR (40x)

ESC: 1/ 20



Lista de Material - Projeto								
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA
1	1	40		GARRA		0.18	7.40	0.38
2	GR	40 O			10	0.18	7.40	0.01
PESO TOTAL							7.40 kgf	
ÁREA DE PINTURA								0.38 m2



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SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

PROJETO DE ESTRUTURA METÁLICA DO
CAMPUS ARARIPINA DO IFSertãoPE

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DATA:
ABRIL/2025

DESCRIÇÃO:
DETALHES DE TRAJAMENTO (REFEITÓRIO)

ESCALA:
INDICADA

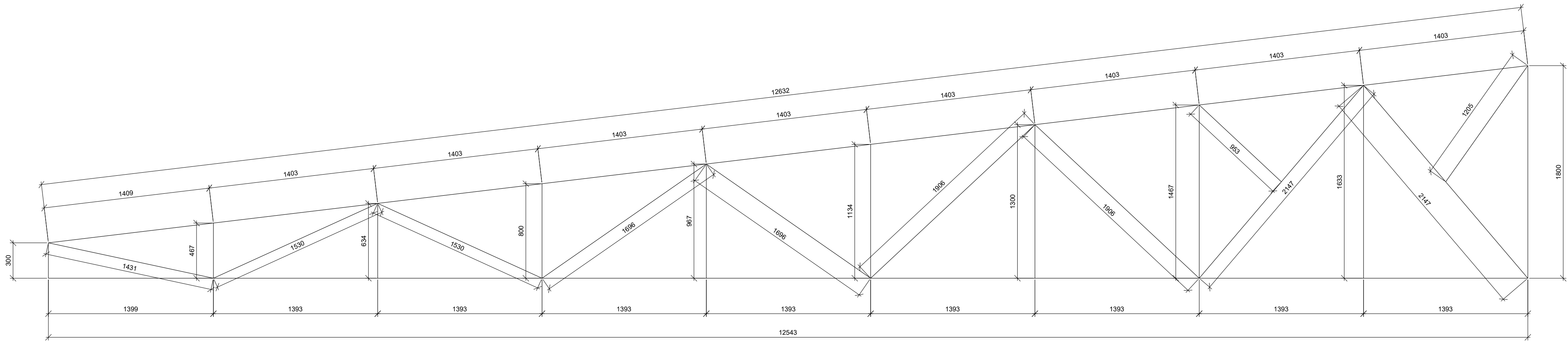
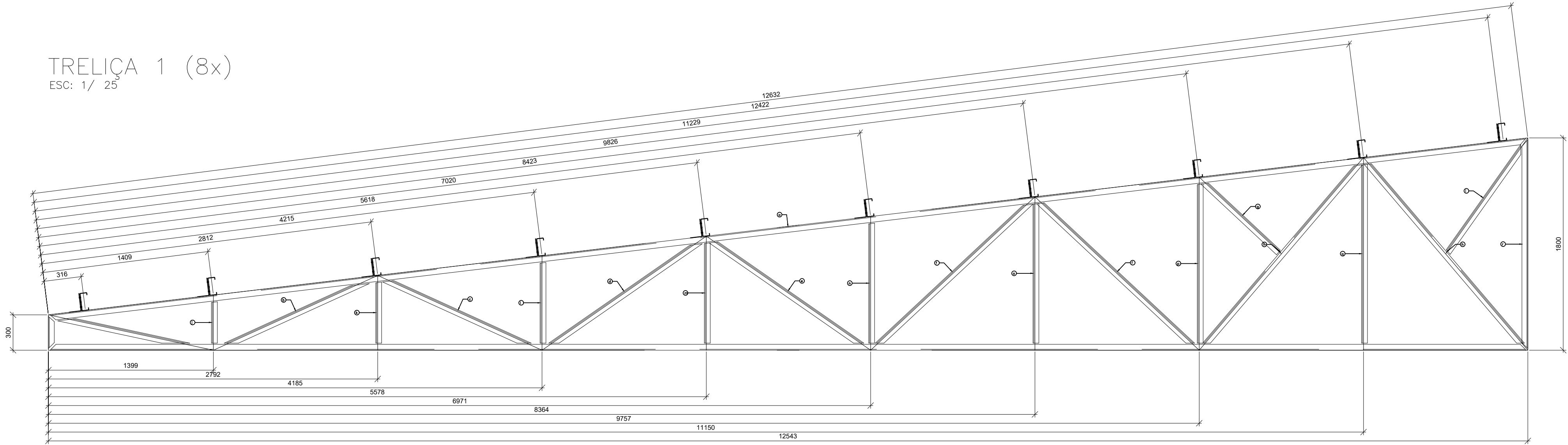
ASSINATURACARRMBO - DIREÇÃO GERAL

ASSINATURACARRMBO - RESPONSÁVEL TÉCNICO:
Ebson Alves da Silva - CREA PE 055750

FINANÇAS:
03/07

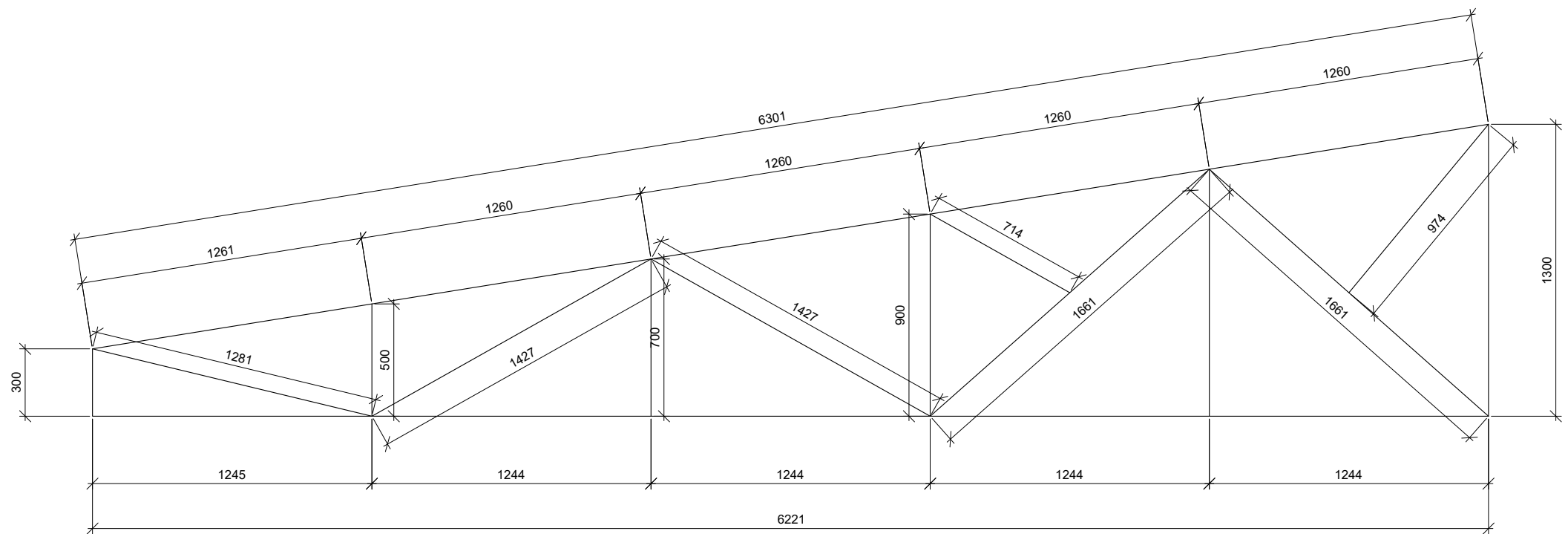
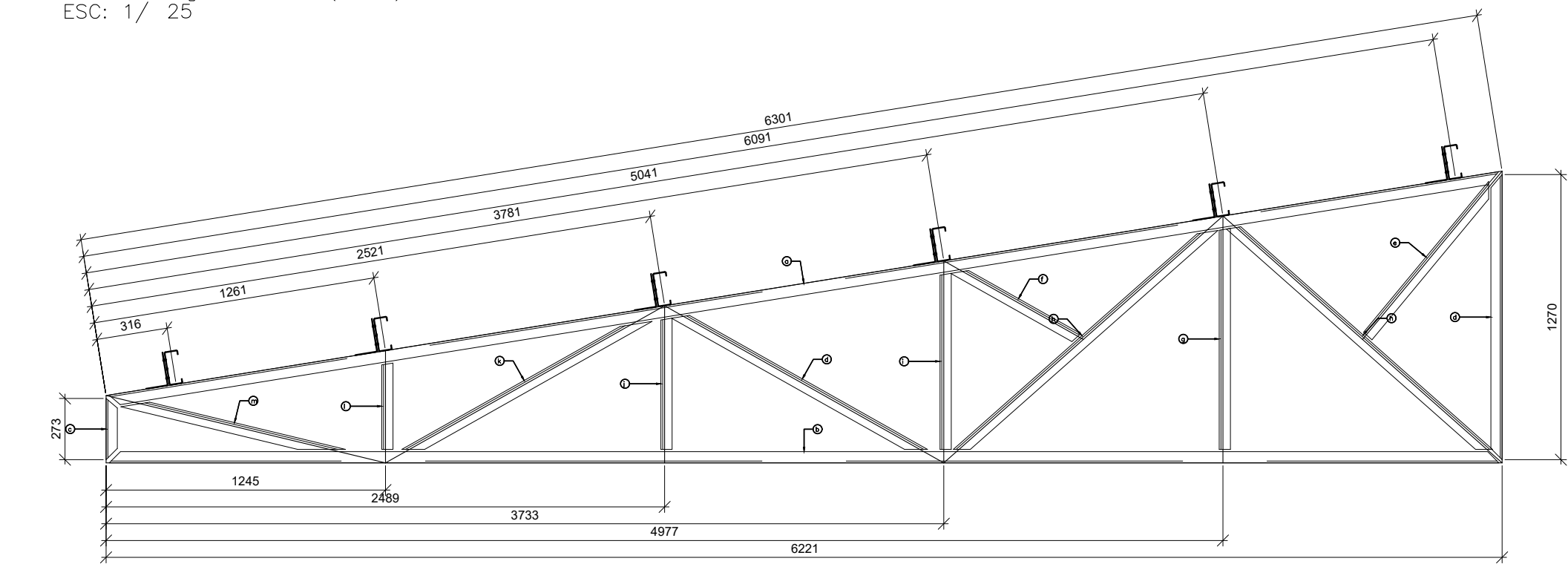
TRELIÇA 1 (8x)

ESC: 1/ 25

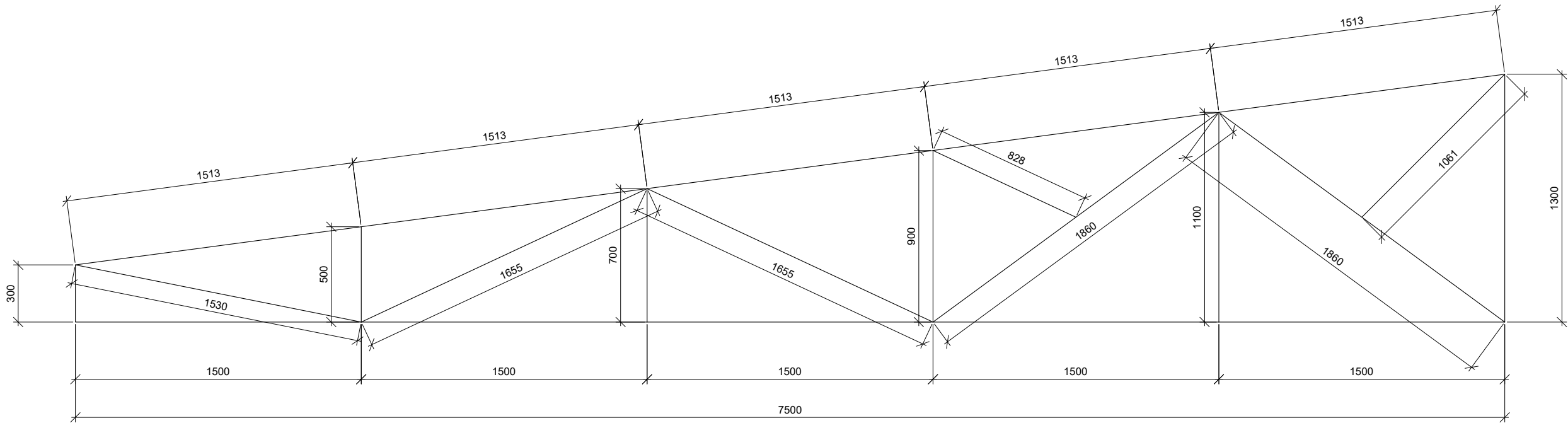
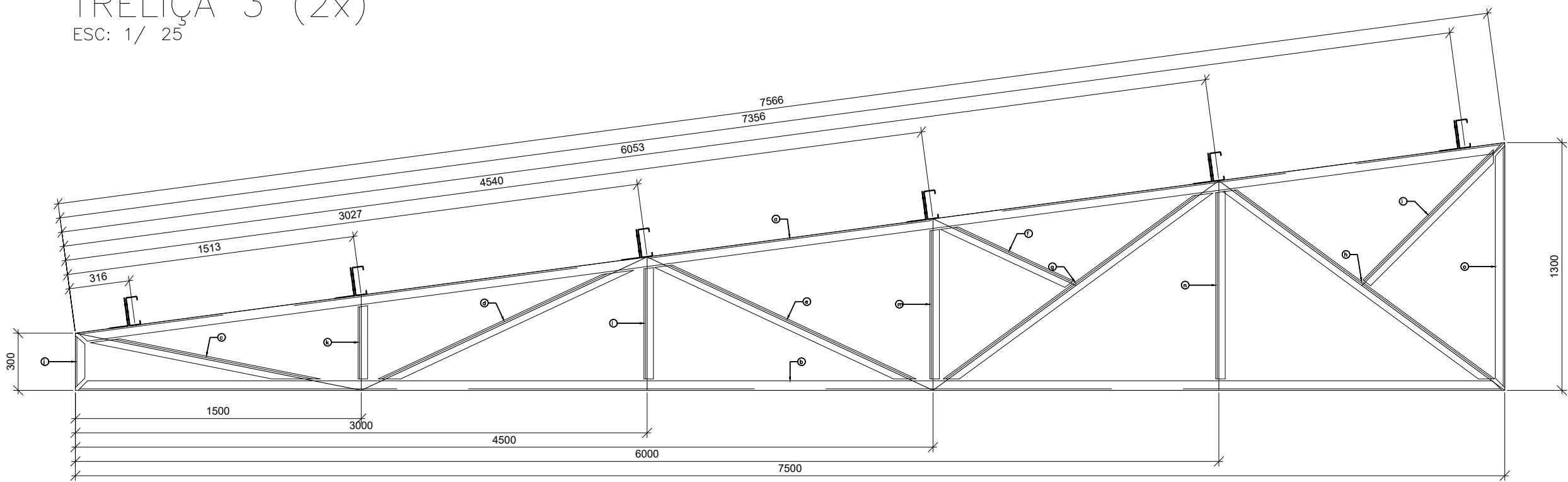


Lista de Material - Projeto								
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA
1		8		TRELIÇA 1		640.53	5124.21	168.66
2	a	8		200 x 50 x 8	12604	216.64	1733.12	7.11
3	b	8		200 x 50 x 8	1329	22.84	182.76	0.75
4	c	8		200 x 50 x 8	1362	23.40	187.22	0.77
5	d	8		200 x 50 x 8	1549	26.63	213.05	0.88
6	e	8		200 x 50 x 8	1562	26.84	214.75	0.88
7	f	16		200 x 50 x 8	1779	30.68	490.92	2.02
8	g	8		200 x 50 x 8	677	15.08	120.62	0.50
9	h	16		200 x 50 x 8	2030	34.93	558.88	2.30
10	i	8		200 x 50 x 8	1106	19.00	152.03	0.63
11	j	8		200 x 50 x 8	351	6.03	48.25	0.20
12	k	8		200 x 50 x 8	517	8.89	71.15	0.30
13	l	8		200 x 50 x 8	684	11.76	94.06	0.39
14	m	8		200 x 50 x 8	851	14.62	116.97	0.48
15	n	8		200 x 50 x 8	1017	17.46	139.67	0.58
16	o	8		200 x 50 x 8	1184	20.35	162.78	0.67
17	p	8		200 x 50 x 8	1350	23.21	185.69	0.77
18	q	8		200 x 50 x 8	1517	26.07	208.59	0.86
19	r	8		200 x 50 x 8	1771	30.44	243.50	1.00
PESO TOTAL								5124.21 kgf
ÁREA DE PINTURA								168.66 m2

TRELIÇA 2 (4x)
ESC: 1/ 25



TRELIÇA 3 (2x)
ESC: 1/ 25

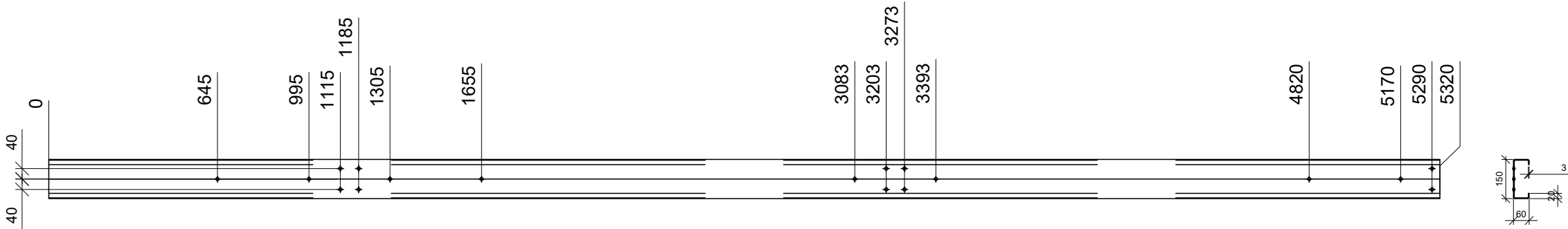


Lista de Material - Projeto								
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA
1		4		TRELIÇA 2		427.59	1710.37	56.33
2	a	4	[	200 x 50 x 8	6272	107.31	431.34	3.54
3	b	4	[	200 x 50 x 8	6193	106.44	425.77	3.49
4	c	4	[	200 x 50 x 8	273	4.69	18.75	0.16
5	d	8	[	200 x 50 x 8	1270	22.01	176.05	1.45
6	e	4	[	200 x 50 x 8	875	15.04	60.15	0.50
7	f	4	[	200 x 50 x 8	637	10.95	43.78	0.36
8	g	4	[	200 x 50 x 8	985	16.92	67.70	0.56
9	h	8	[	200 x 50 x 8	1539	26.29	210.30	1.73
10	i	4	[	200 x 50 x 8	785	13.49	53.95	0.45
11	j	4	[	200 x 50 x 8	585	10.05	40.20	0.33
12	k	4	[	200 x 50 x 8	1252	21.51	86.06	0.71
13	l	4	[	200 x 50 x 8	385	6.61	26.45	0.22
14	m	4	[	200 x 50 x 8	1018	17.49	69.98	0.58
PESO TOTAL						1710.37 kgf		
ÁREA DE PINTURA						56.33 m2		

Lista de Material - Projeto									
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA	OBSERVAÇÕES
1		2		TRELIÇA 3		491.84	983.67	32.37	
2	a	2	[	200 x 50 x 8	7538	129.56	259.13	4.25	
3	b	2	[	200 x 50 x 8	7472	128.43	256.85	4.21	
4	c	2	[	200 x 50 x 8	1219	20.96	41.91	0.69	
5	d	2	[	200 x 50 x 8	1455	25.01	50.02	0.82	
6	e	2	[	200 x 50 x 8	1490	25.61	51.22	0.84	
7	f	2	[	200 x 50 x 8	747	12.84	25.68	0.43	
8	g	2	[	200 x 50 x 8	1717	28.52	59.03	0.97	
9	h	2	[	200 x 50 x 8	1729	29.73	59.45	0.98	
10	i	2	[	200 x 50 x 8	968	16.64	33.28	0.55	
11	j	2	[	200 x 50 x 8	273	4.68	9.37	0.16	
12	k	2	[	200 x 50 x 8	394	6.80	13.20	0.22	
13	l	2	[	200 x 50 x 8	584	10.04	20.07	0.33	
14	m	2	[	200 x 50 x 8	784	13.47	26.95	0.45	
15	n	2	[	200 x 50 x 8	984	16.91	33.82	0.56	
16	o	2	[	200 x 50 x 8	1271	21.84	43.68	0.72	
PESO TOTAL						983.67 kgf			
ÁREA DE PINTURA						32.37 m2			

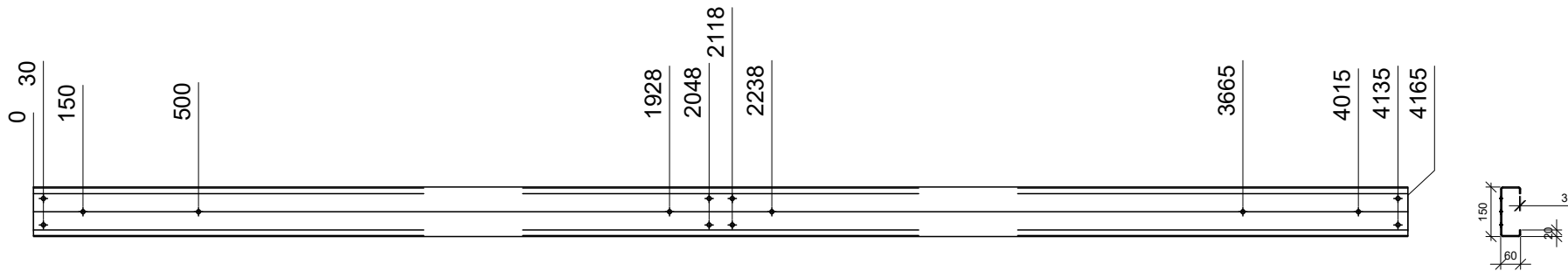
TERÇA – TC1 (20x)

ESC: 1/320



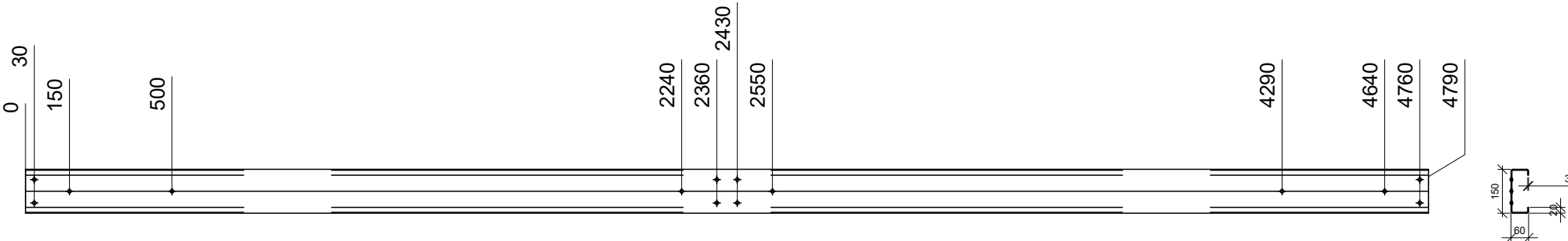
TERÇA – TC2 (40x)

ESC: 1/320



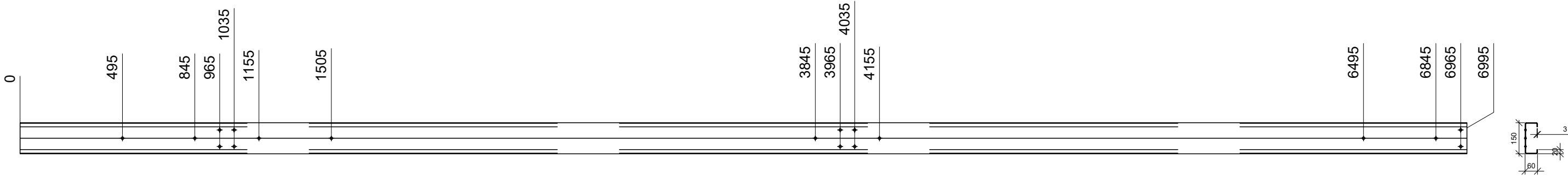
TERÇA – TC3 (10x)

ESC: 1/320



TERÇA – TC4 (12x)

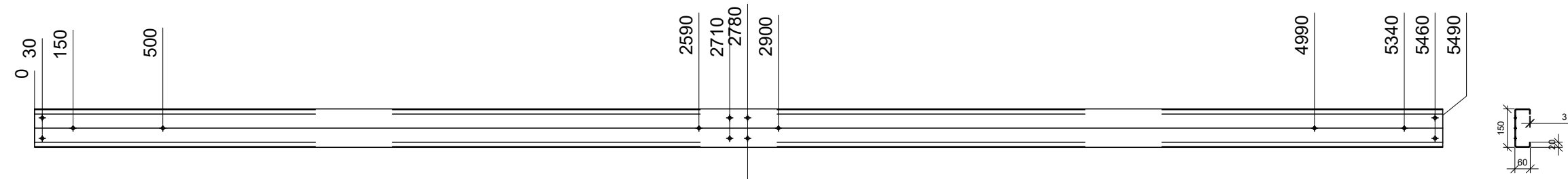
ESC: 1/320



 INSTITUTO FEDERAL Sertão Pernambucano	INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA SERTÃO PERNAMBUCANO DIRETORIA DE ENGENHARIA E INFRAESTRUTURA Rua Aristarco Lopes, 240 Centro Petrolina/PE CEP: 56.302-100	NOME: PROJETO DE ESTRUTURA METÁLICA DO CAMPUS ARARIPINA DO IFSertãoPE
		ENDEREÇO: Av. Recife, S/N, CEP: 56280-000 Araripina/PE
DESCRIÇÃO: TERÇAS E DETALHES (REFEITÓRIO)	ESCALA: INDICADA	DATA: ABRIL/2025
ASSINATURA/CARIMBO - DIREÇÃO GERAL:	ASSINATURA/CARIMBO - RESPONSÁVEL TÉCNICO:	PRANCHA 06/07 Ebson Alves da Silva - CREA PE 055750

TERÇA – TC5 (6x)

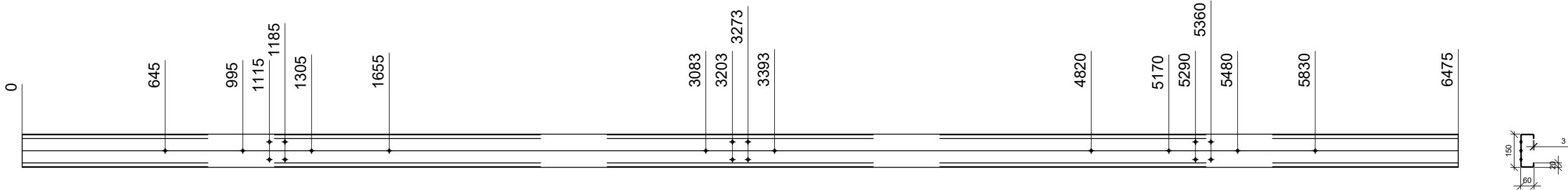
ESC: 1/20



Lista de Material - Projeto								
LINHA	ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITARIO	PESO TOTAL	ÁREA DE PINTURA
1		1		TERÇAS		3957.48	3957.48	334.69
2	TC1	20	UEnr	150 x 60 x 3 x 20	5320	36.37	727.35	62.44
3	TC2	40	UEnr	150 x 60 x 3 x 20	4165	28.47	1138.67	97.79
4	TC3	10	UEnr	150 x 60 x 3 x 20	4790	32.74	327.44	28.11
5	TC4	12	UEnr	150 x 60 x 3 x 20	6995	47.82	573.81	49.26
6	TC5	6	UEnr	150 x 60 x 3 x 20	5490	37.53	225.18	19.33
7	TC6	6	UEnr	150 x 60 x 3 x 20	6475	44.26	265.56	22.80
8	ST	94	L	150 x 100 x 3	220	1.27	119.35	10.40
9	MF	188	L	80 x 80 x 3.35	707	2.87	540.07	42.16
10	SMF	188	#			0.21	39.82	2.41
PESO TOTAL								3957.48 kgf
ÁREA DE PINTURA								334.69 m2

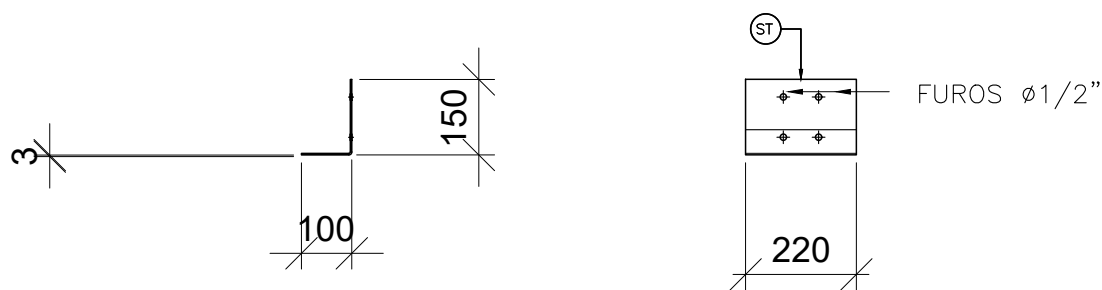
TERÇA – TC6 (6x)

ESC: 1/20



ST – SUPORTE TERÇAS (94x)

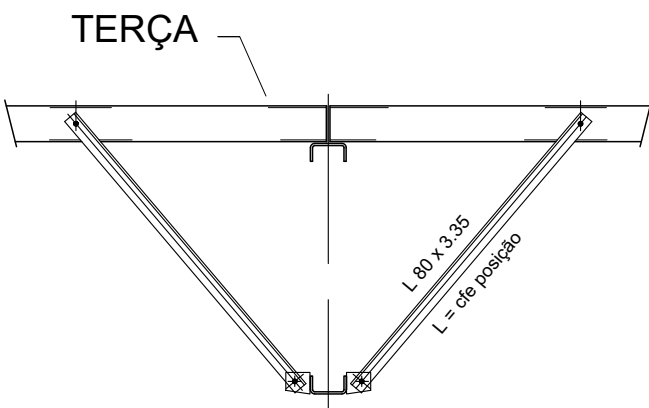
ESC: 1/15



CHAPA1 – 250 X 220 #3,00

DET. FIXAÇÃO DAS ”MF” (188x)

ESC: 1/15





INSTITUTO FEDERAL
Sertão Pernambucano

INSTITUTO FEDERAL DE
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA
E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

NOME:
**PROJETO DE ESTRUTURA METÁLICA DO
CAMPUS ARARIPINA DO IFSertãoPE**

ENDEREÇO:
Av. Recife, S/N, CEP: 56280-000
Araripina/PE

DESCRIÇÃO:
TERÇAS E DETALHES (REFEITÓRIO)

ESCALA:
INDICADA

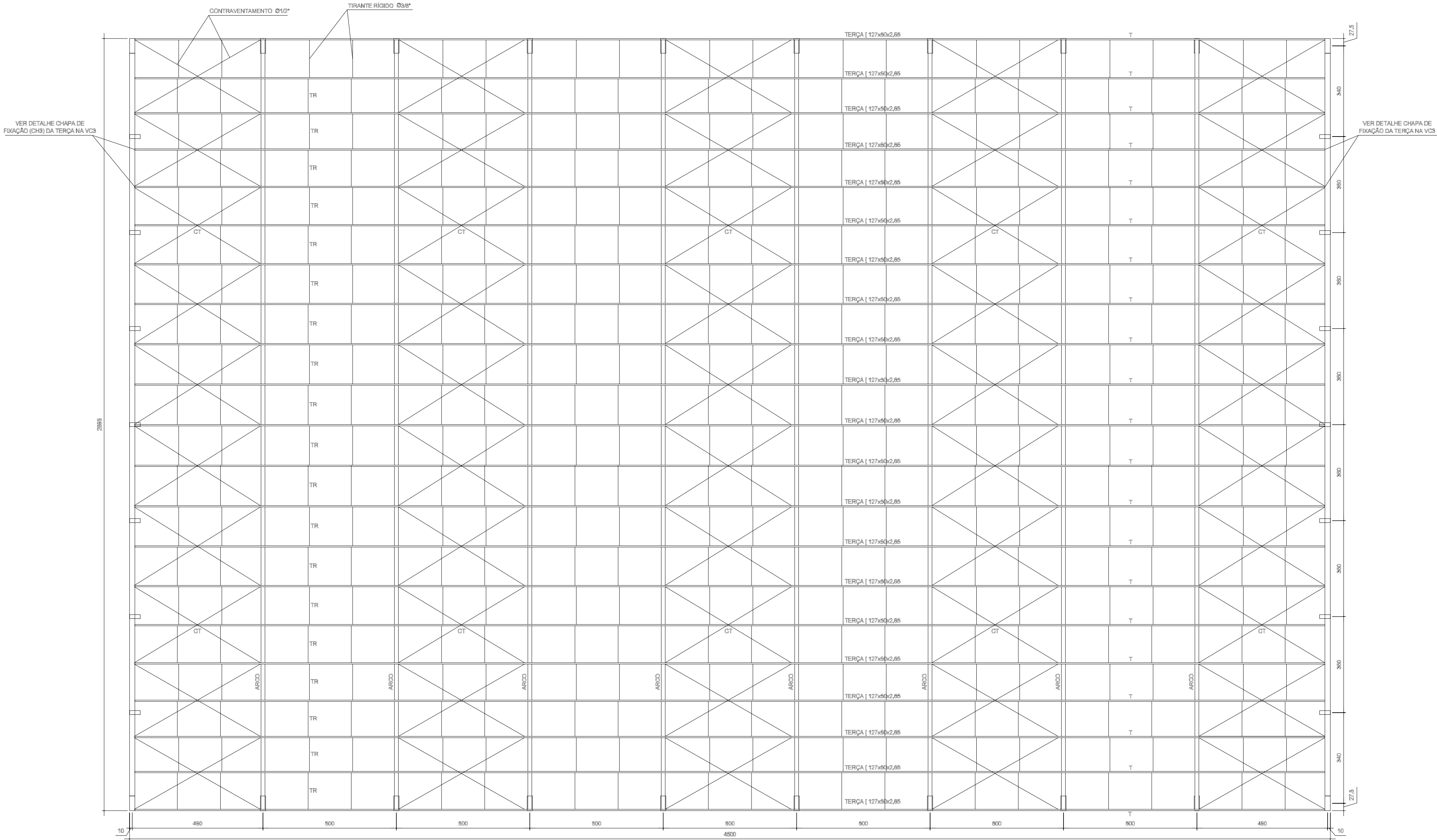
DATA:
ABRIL/2025

ASSINATURA/CARIMBO - DIREÇÃO GERAL:

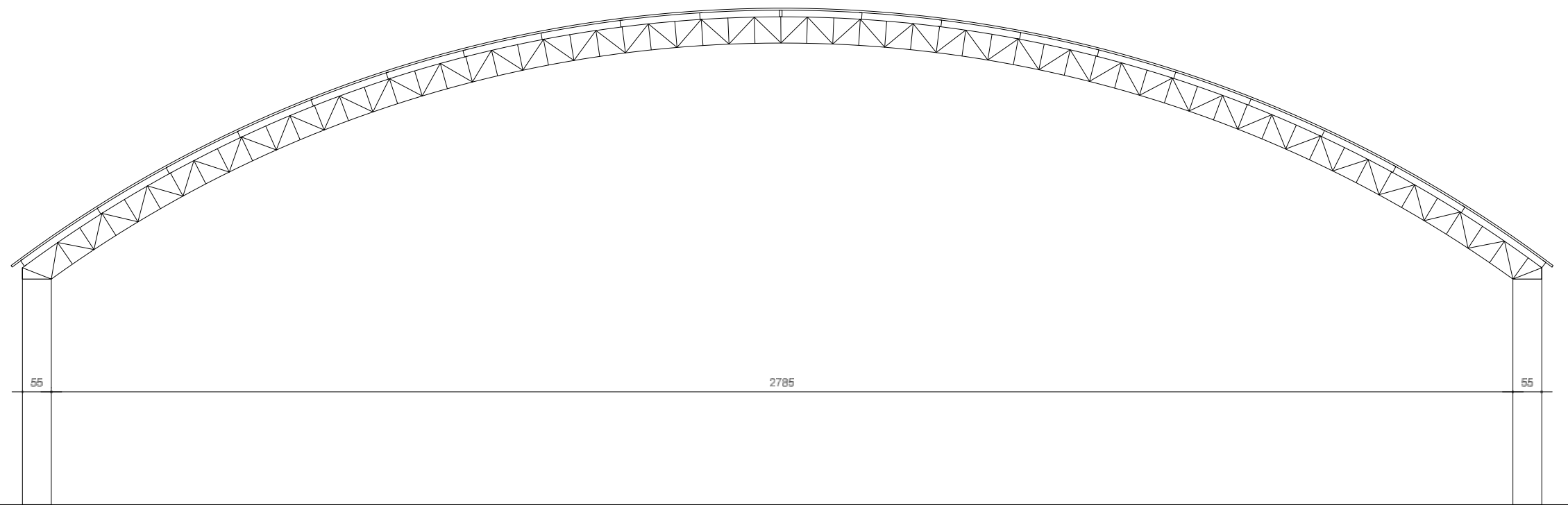
ASSINATURA/CARIMBO - RESPONSÁVEL TÉCNICO:

PRANCHA
07/07

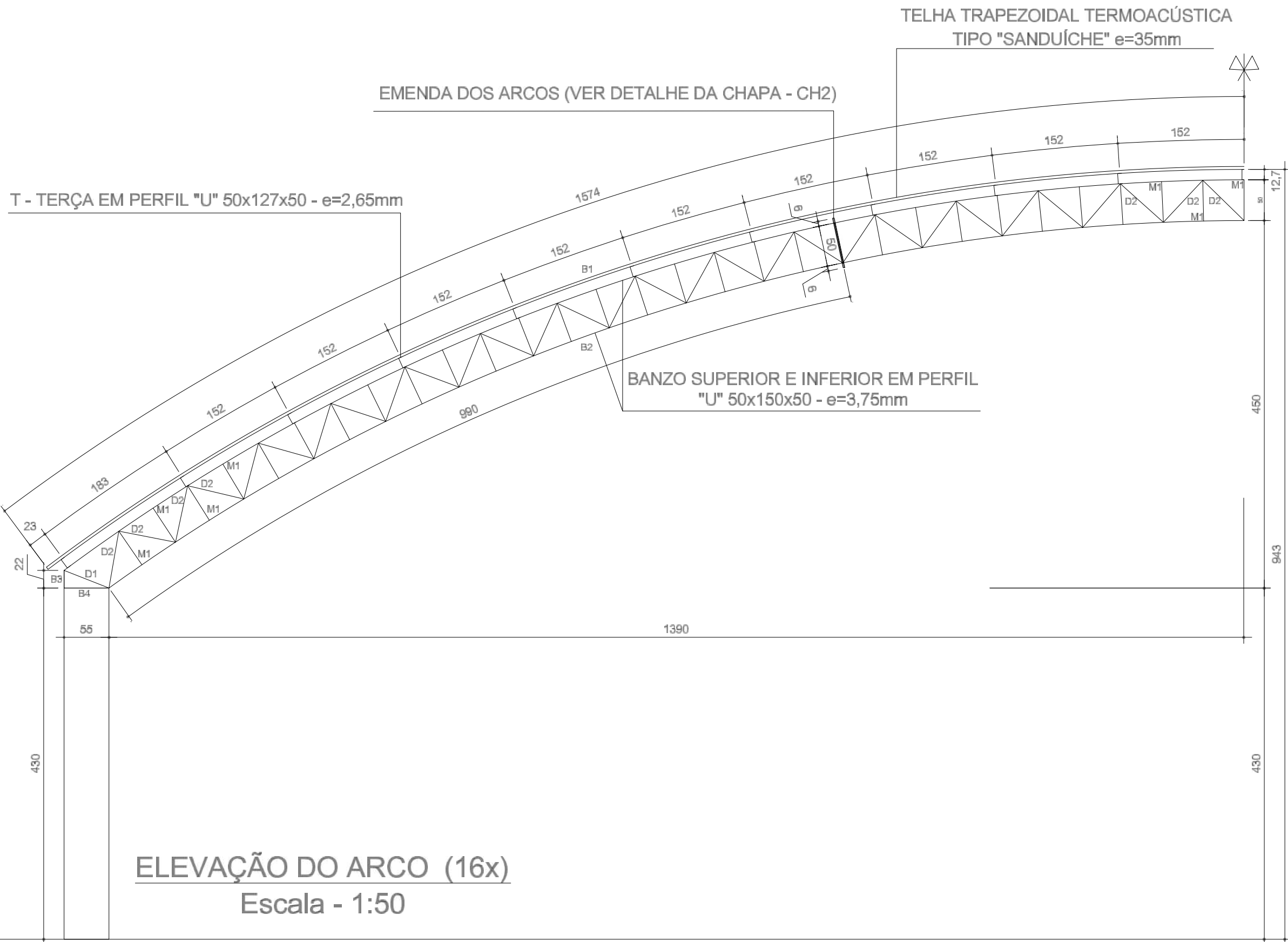
Ebson Alves da Silva - CREA PE 055750



PLANTA DA COBERTURA METÁLICA
Escala - 1:100



ELEVÇÃO DA COBERTURA METÁLICA
Escala - 1:100



ELEVÇÃO DO ARCO (16x)
Escala - 1:50

RELAÇÃO DE MATERIAIS

N	MATERIAL	BITOLA	COMP. (cm)	QUANT.	PESO TOTAL	ESPECIFICAÇÃO
B1	PERFIL DOBRADO	"U" 50x150x50x3,75mm	3100	8	1914	ASTM A-36
B2	PERFIL DOBRADO	"U" 50x150x50x3,75mm	2975	8	1837	ASTM A-36
B3	PERFIL DOBRADO	"U" 50x150x50x3,75mm	22	16	28	ASTM A-36
B4	PERFIL DOBRADO	"U" 50x150x50x3,75mm	55	16	68	ASTM A-36
D1	PERFIL LAMINADO	"L" 1.1/4" x 1/8"	59	16	17	ASTM A-36
D2	PERFIL LAMINADO	"L" 1.1/4" x 1/8"	70	480	567	ASTM A-36
M1	PERFIL LAMINADO	"L" 1.1/4" x 1/8"	50	480	405	ASTM A-36
T	PERFIL DOBRADO	"U" 50x127x50x2,65mm	21	4460	4234	ASTM A-36
CH1	CHAPA LISA	200x550x3/8"	—	16	132	ASTM A-36
CH2	CHAPA LISA	270x620x1/2"	—	32	525	ASTM A-36
CH3	CHAPA LISA	130x250x5/16"	—	42	86	ASTM A-36
CT	BARRA LISA	Ø1/2"	543	100	544	ASTM A-36
TR	BARRA LISA	Ø3/8"	156	360	315	ASTM A-36
CB1	AÇO INOX	Ø1/2"	55	48	—	ASTM A-36
CB2	AÇO INOX	Ø5/16"	15	84	—	ASTM A-36
P	AÇO INOX	Ø5/8"	1.1/2"	192	—	ASTM A-36

NOTAS GERAIS:

- 1) PROJETO DE ACORDO COM A NORMA NBR-8800 (PROJETO E EXECUÇÃO DE ESTRUTURAS DE AÇO);
- 2) VERIFICAR AS MEDIDAS NA OBRA ANTES DA FABRICAÇÃO;
- 3) TODAS AS MEDIDAS ESTÃO EM MILÍMETROS E CENTÍMETROS;
- 4) É DE RESPONSABILIDADE DO FABRICANTE, A VERIFICAÇÃO DOS QUANTITATIVOS DE MATERIAIS ANTES DA ELABORAÇÃO DA PROPOSTA;
- 5) TODA E QUALQUER ALTERAÇÃO NA ESTRUTURA, COMO MUDANÇA DE BITOLAS, DEVERÃO SER AUTORIZADAS PELO PROJETISTA;
- 6) MATERIAIS:
 - PERFÍS LAMINADOS - AÇO ASTM A-36
 - PERFÍS DE CHAPA DOBRADA - AÇO ASTM A-36
 - BARRAS LISAS (REDONDAS) - AÇO ASTM A-36
 - CHAPAS GROSSAS - AÇO ASTM A-36
 - PARAFUSOS DE ALTA RESISTÊNCIA - ASTM A-325
 - ELETRODOS PARA SOLDA - AWS E- 70XX
 - CHUMBADORES DE EXPANSÃO (PARABOLT) - WALSYWA OU SIMILAR
- 7) PROTEÇÃO ANTI-CORROSIVA:
 - TRATAMENTO DE SUPERFÍCIE: JATO AO METAL QUASE BRANCO PADRÃO SA 21/2
 - FUNDO: ÉPOXI DUPLA FUNÇÃO 80 MICRÔMETROS (SECA) EM UMA DEMÃO, COR A DEFINIR.
- 8) SOLDAS DE FILETE E CONTÍNUA DE 6 mm;
- 9) SOBRECARGA CONSIDERADA: 0,25 kN/m² (DE ACORDO COM A NORMA NBR-8800/2008);
- 9.1) VENTO INCIDENTE: CONFORME NBR 6123/88.



INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro Petrolina/PE | CEP: 56.302-000

INSCRIÇÃO: 01/2025

PROJETO DE ESTRUTURA METÁLICA DO CAMPUS ARARIPINA DO IF Sertão PE

ENDEREÇO: Av. Recife, S/N, CEP. 56280-000 Araripina/PE

DESCRIÇÃO: PLANTA DE MONTAGEM, ELEVÇÕES E DETALHES (GINÁSIO)

ASSINATURA CARIMBO - DIREÇÃO GERAL

ESCALA: INDICADA

ASSINATURA CARIMBO - RESPONSÁVEL TÉCNICO

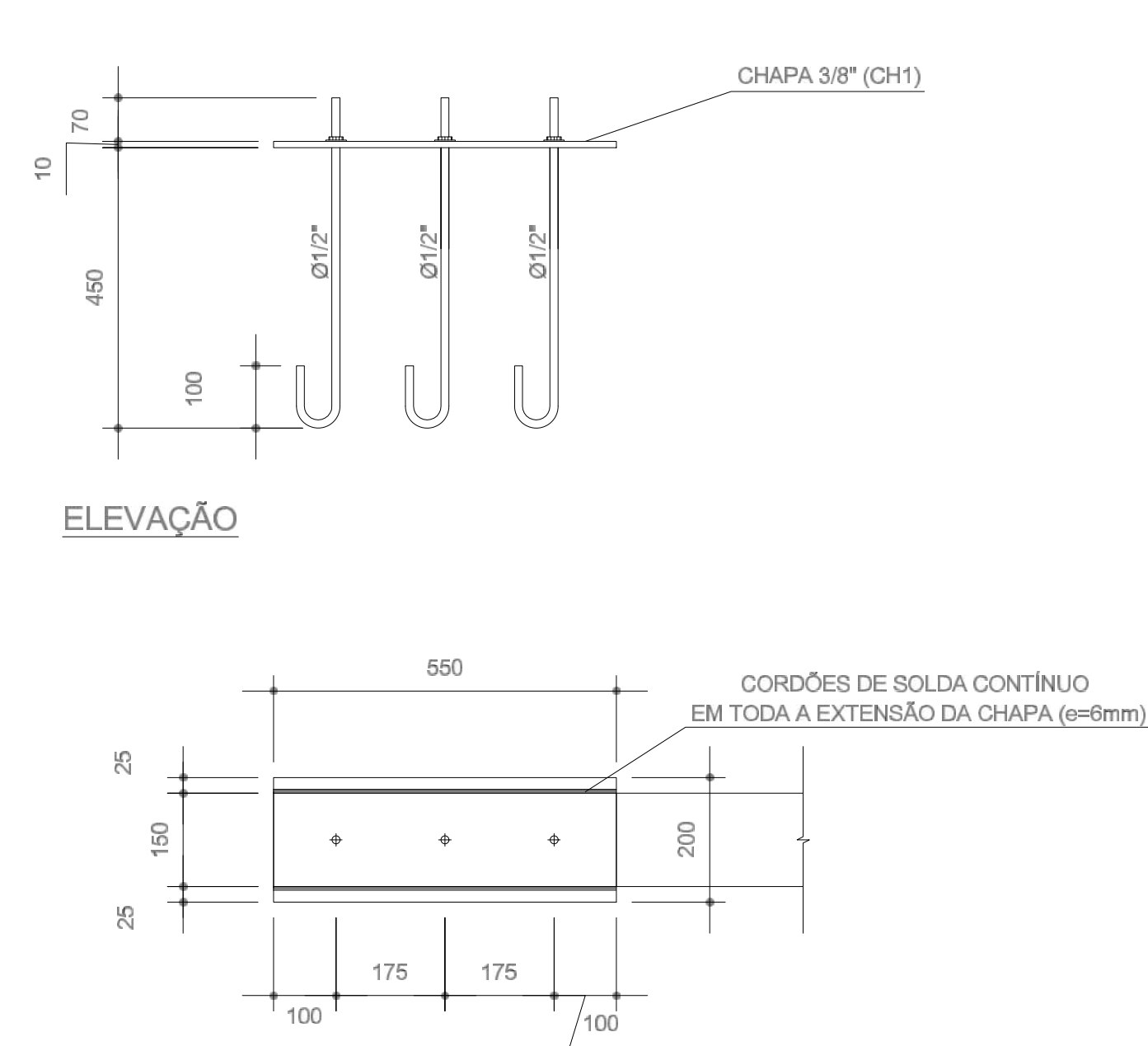
DATA: ABRIL/2025

FINANÇAS: 01/02

Ebson Alves da Silva - CREA PE 055750

DETA HE DA CHAPA DE FIXAÇÃO (CH1) COM OS CHUMBADORES (16x)

Escala - 1:10

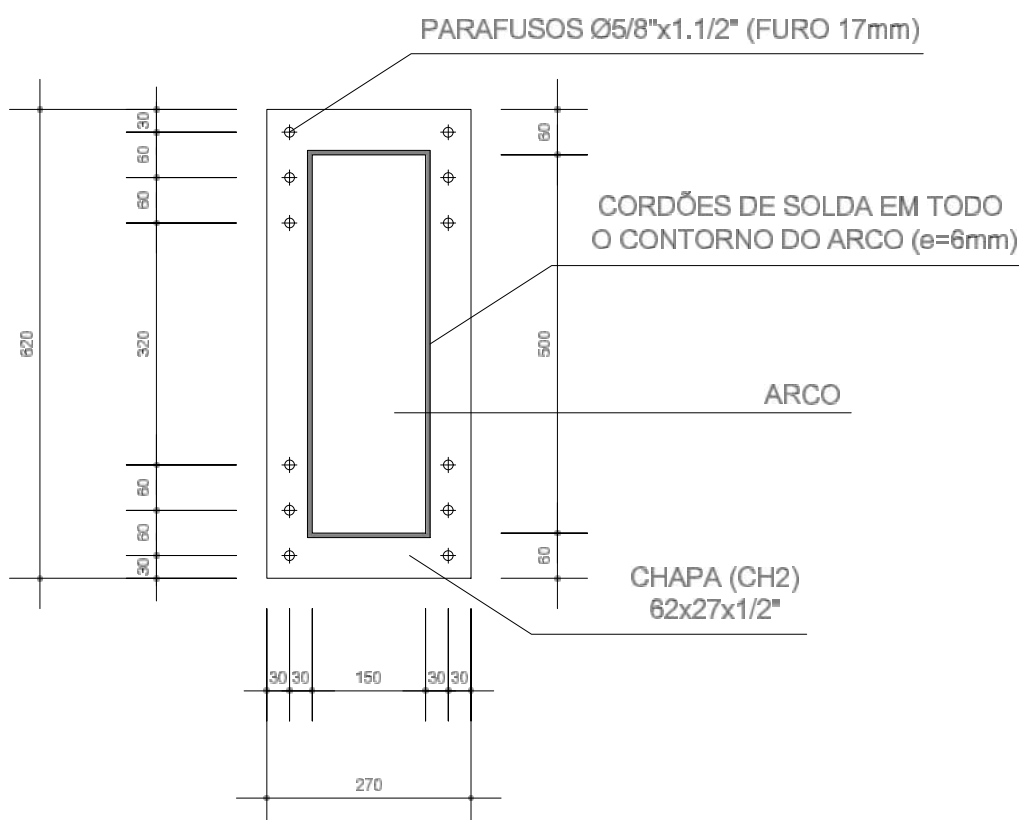


ELEVÇÃO

PLANTA

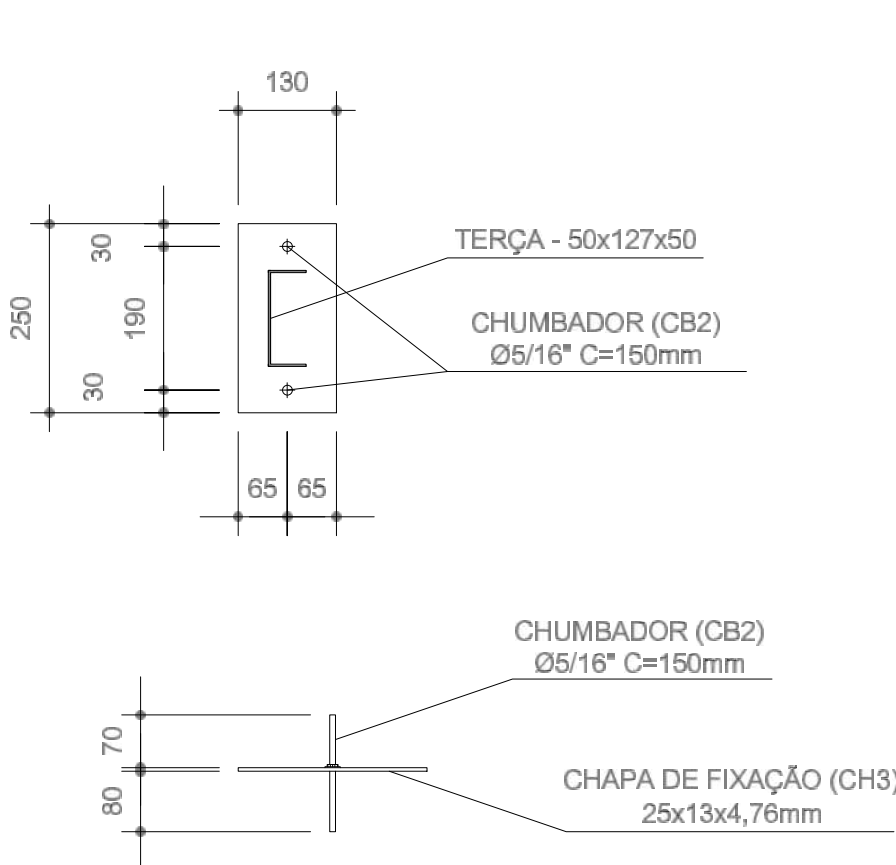
DETALHE DA CHAPA (CH2) DA EMENDA DOS ARCOS (16x)

Escala - 1:10



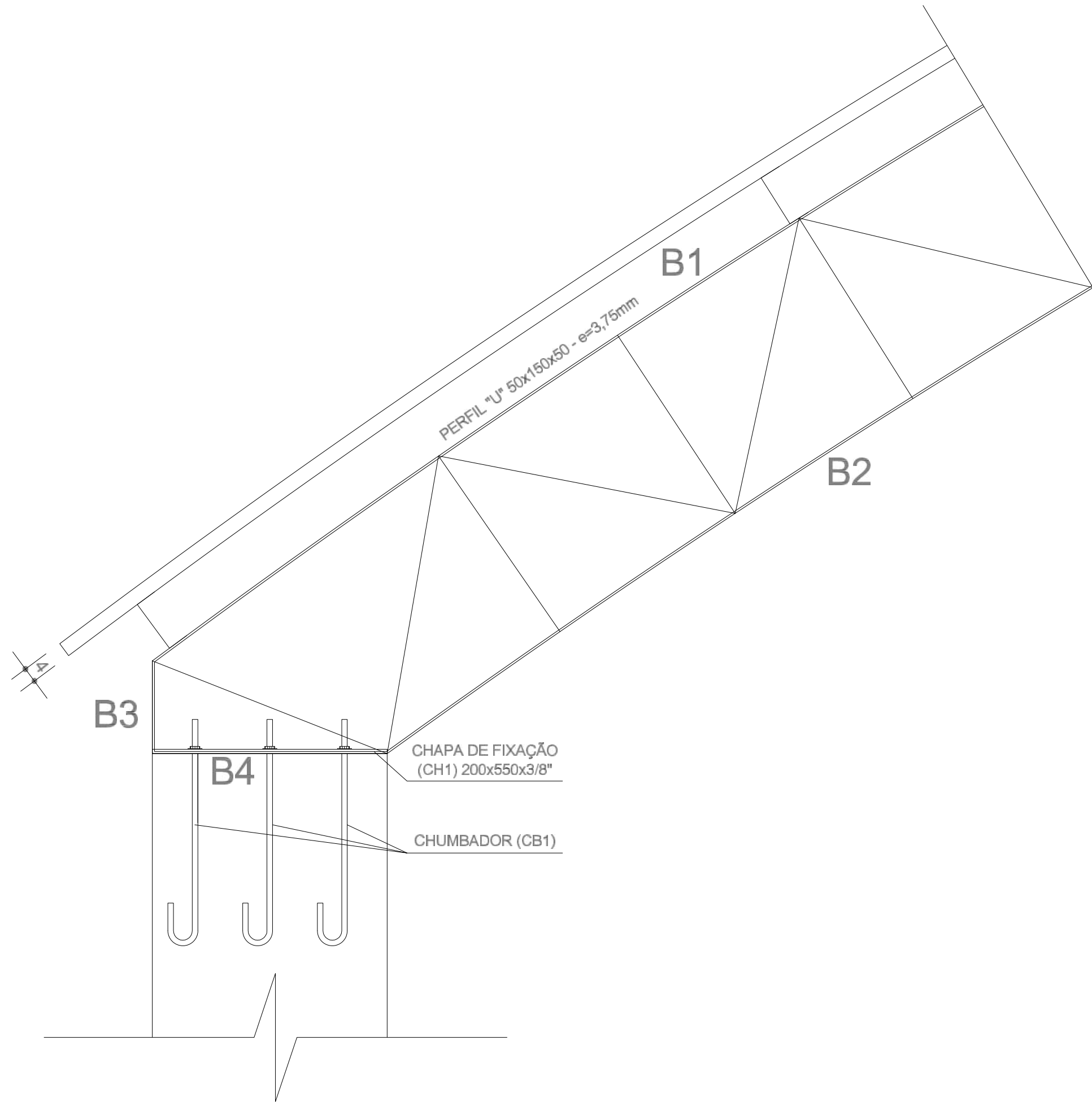
DETALHE DA CHAPA DE FIXAÇÃO (CH3) NA PONTA DAS TERÇAS (42x)

Escala - 1:10



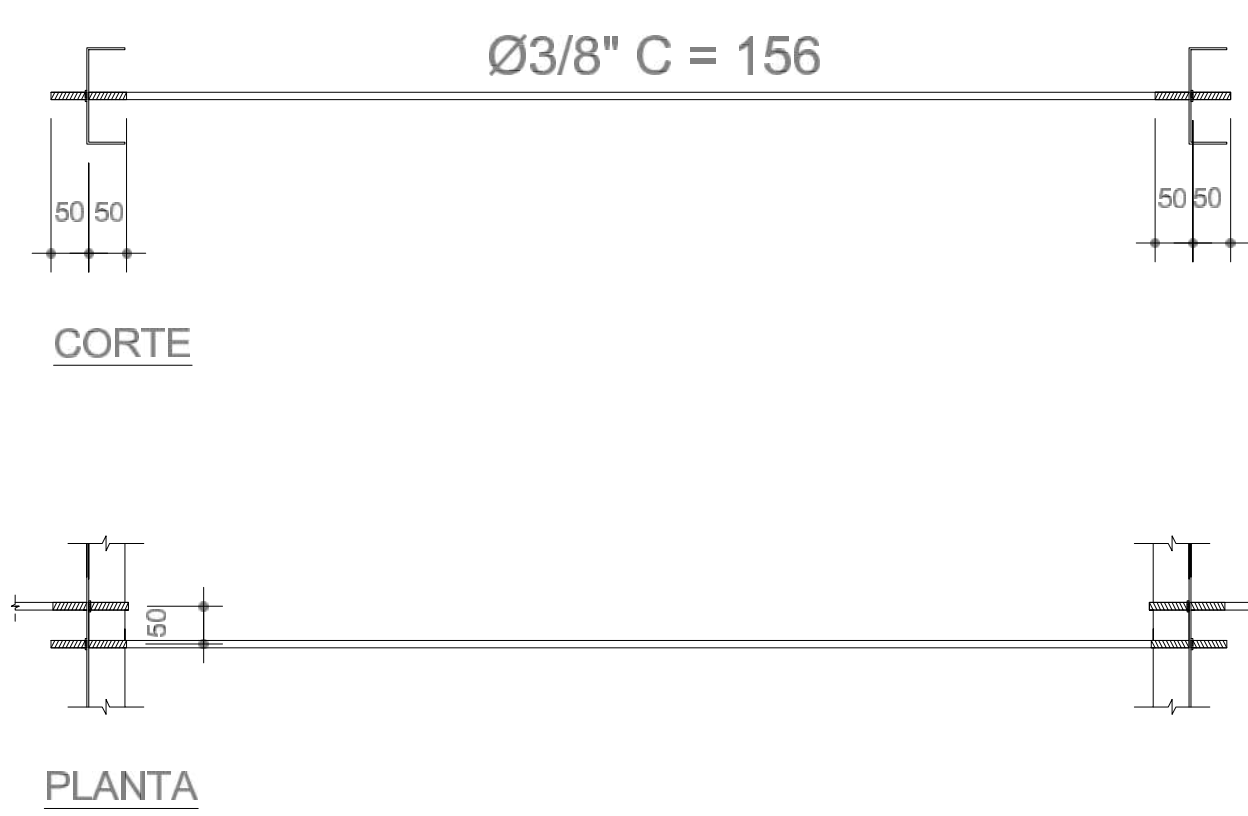
DETALHE DA CHAPA DE FIXAÇÃO (CH1) NOS PILARES (16x)

Escala - 1:10



DETALHE DOS TIRANTES RÍGIDOS (360x)

Escala - 1:10



CORTE

PLANTA

NOTAS GERAIS:

- 1) PROJETO DE ACORDO COM A NORMA NBR-8800 (PROJETO E EXECUÇÃO DE ESTRUTURAS DE AÇO);
- 2) VERIFICAR AS MEDIDAS NA OBRA ANTES DA FABRICAÇÃO;
- 3) TODAS AS MEDIDAS ESTÃO EM MILÍMETROS E CENTÍMETROS;
- 4) É DE RESPONSABILIDADE DO FABRICANTE, A VERIFICAÇÃO DOS QUANTITATIVOS DE MATERIAIS ANTES DA ELABORAÇÃO DA PROPOSTA;
- 5) TODA E QUALQUER ALTERAÇÃO NA ESTRUTURA, COMO MUDANÇA DE BITOLAS, DEVERÃO SER AUTORIZADAS PELO PROJETISTA;
- 6) MATERIAIS:
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 - PERFÍS DE CHAPA DOBRADA - AÇO ASTM A-36
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 - CHAPAS GROSSAS - AÇO ASTM A-36
 - PARAFUSOS DE ALTA RESISTÊNCIA - ASTM A-325
 - ELETRODOS PARA SOLDA - AWS E- 70XX
 - CHUMBADORES DE EXPANSÃO (PARABOLT) - WALSYWA OU SIMILAR
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 - FUNDO: ÉPOXI DUPLA FUNÇÃO 80 MICRÔMETROS (SECA) EM UMA DEMÃO, COR A DEFINIR.
- 8) SOLDAS DE FILETE E CONTÍNUA DE 6 mm;
- 9) SOBRECARGA CONSIDERADA: 0,25 kN/m² (DE ACORDO COM A NORMA NBR-8800/2008);
- 9.1) VENTO INCIDENTE: CONFORME NBR 6123/88.