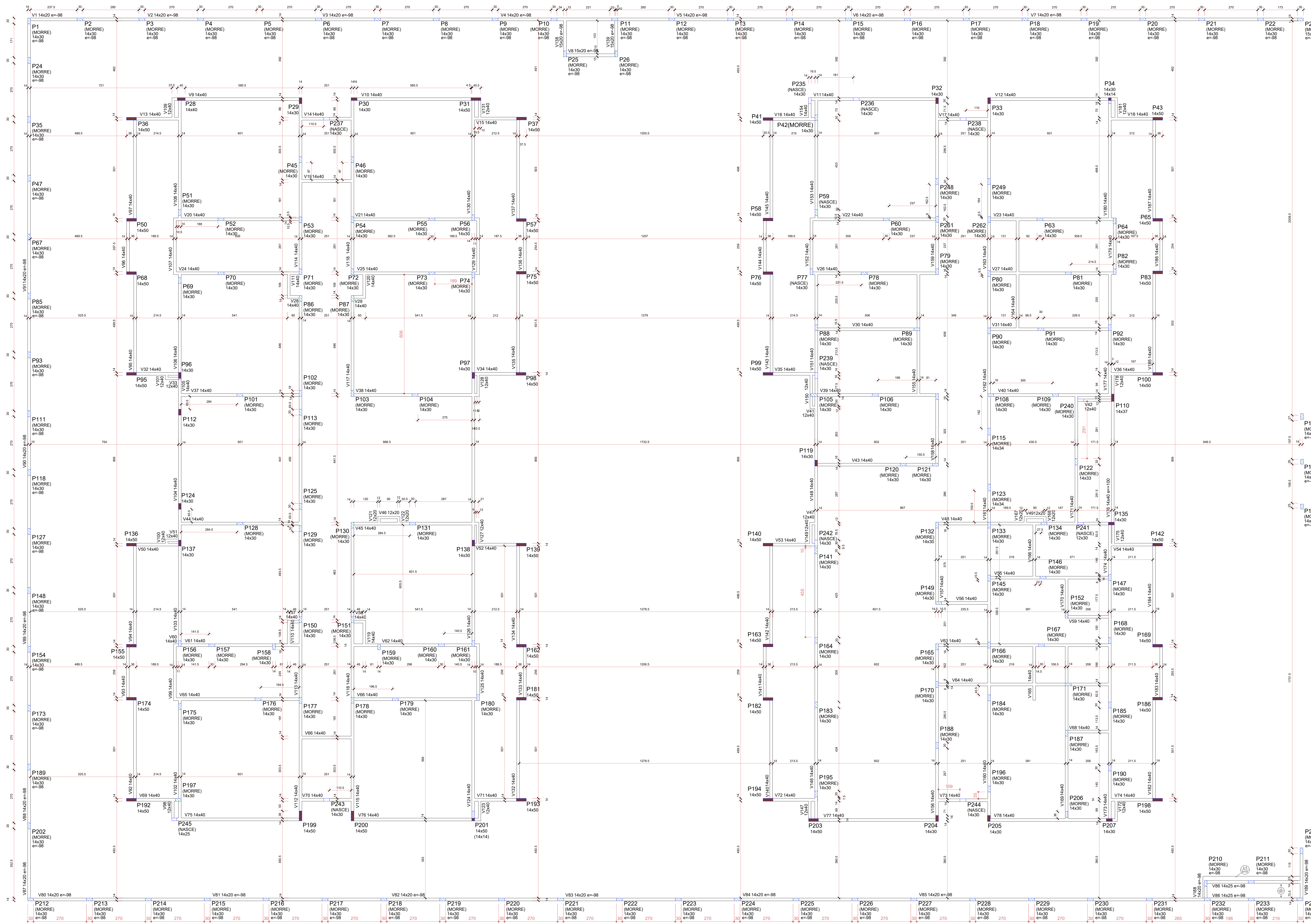


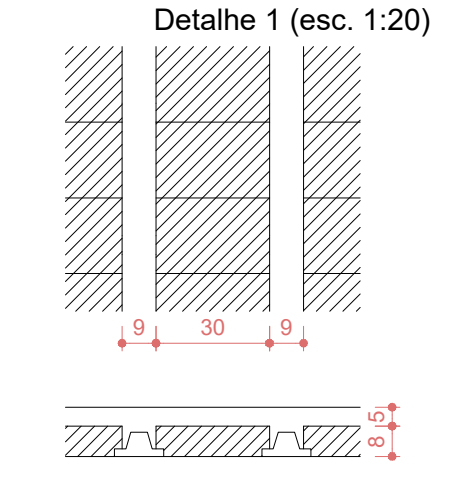


Vigas				Vigas				Vigas			
Nome	Seção	Elevação (cm)	Nível (cm)	Nome	Seção	Elevação (cm)	Nível (cm)	Nome	Seção	Elevação (cm)	Nível (cm)
V1	14x30	-98	228	V64	14x40	0	326	V127	12x40	0	326
V2	14x30	-98	228	V65	14x40	0	326	V128	12x40	0	326
V3	14x30	-98	228	V66	14x40	0	326	V129	14x40	0	326
V4	14x20	-98	228	V67	14x40	0	326	V130	14x40	0	326
V5	14x20	-98	228	V68	14x40	0	326	V131	12x40	0	326
V6	15x20	-98	228	V69	14x40	0	326	V132	14x40	0	326
V7	14x20	-98	228	V70	14x40	0	326	V133	14x40	0	326
V8	15x20	-98	228	V71	14x40	0	326	V134	14x40	0	326
V9	14x40	0	326	V72	14x40	-5	321	V135	14x40	0	326
V10	14x40	0	326	V73	14x40	0	326	V136	14x40	0	326
V11	14x40	0	326	V74	14x40	0	326	V137	14x40	0	326
V12	14x40	0	326	V75	14x40	0	326	V138	15x20	-98	228
V13	14x40	0	326	V76	14x40	0	326	V139	15x20	-98	228
V14	14x40	0	326	V77	14x40	0	326	V140	14x40	-5	321
V15	14x40	0	326	V78	14x40	0	326	V141	14x40	0	326
V16	14x40	0	326	V79	14x20	-98	228	V142	14x40	-5	321
V17	14x40	0	326	V80	14x20	-98	228	V143	14x40	0	326
V18	14x40	0	326	V81	14x20	-98	228	V144	14x40	0	326
V19	14x40	0	326	V82	14x20	-98	228	V145	14x40	0	326
V20	14x40	0	326	V83	14x20	-98	228	V146	14x40	0	326
V21	14x40	0	326	V84	14x20	-98	228	V147	12x40	0	326
V22	14x40	0	326	V85	14x20	-98	228	V148	14x40	0	326
V23	14x40	0	326	V86	15x20	-98	228	V149	12x40	0	326
V24	14x40	0	326	V87	14x20	-98	228	V150	12x40	0	326
V25	14x40	0	326	V88	14x20	-98	228	V151	14x40	0	326
V26	14x40	0	326	V89	14x20	-98	228	V152	14x40	0	326
V27	14x40	0	326	V90	14x20	-98	228	V153	14x40	0	326
V28	14x40	0	326	V91	14x20	-98	228	V154	14x40	0	326
V29	14x40	0	326	V92	14x40	0	326	V155	14x40	0	326
V30	14x40	0	326	V93	14x40	0	326	V156	14x40	0	326
V31	14x40	0	326	V94	14x40	0	326	V157	14x40	0	326
V32	14x40	0	326	V95	14x40	0	326	V158	14x40	0	326
V33	12x40	0	326	V96	14x40	0	326	V159	14x40	0	326
V34	14x40	0	326	V97	14x40	0	326	V160	14x40	0	326
V35	14x40	0	326	V98	14x40	0	326	V161	14x40	0	326
V36	14x40	0	326	V99	14x40	0	326	V162	14x40	0	326
V37	14x40	0	326	V100	12x40	0	326	V163	14x40	0	326
V38	14x40	0	326	V101	12x40	0	326	V164	14x40	0	326
V39	14x40	0	326	V102	14x40	0	326	V165	14x40	0	326
V40	14x40	0	326	V103	14x40	0	326	V166	14x40	0	326
V41	12x40	0	326	V104	14x40	0	326	V167	12x20	0	326
V42	12x40	0	326	V105	14x40	0	326	V168	12x20	0	326
V43	14x40	0	326	V106	14x40	0	326	V169	14x40	0	326
V44	14x40	0	326	V107	14x40	0	326	V170	14x40	0	326
V45	14x40	0	326	V108	14x40	0	326	V171	14x40	0	326
V46	12x40	0	326	V109	12x40	0	326	V172	12x40	0	326
V47	12x40	0	326	V110	14x40	0	326	V173	14x40	0	326
V48	14x40	0	326	V111	14x40	0	326	V174	14x40	0	326
V49	12x20	0	326	V112	14x40	0	326	V175	12x40	0	326
V50	14x40	0	326	V113	14x40	0	326	V176	14x40	100	426
V51	12x40	0	326	V114	14x40	0	326	V177	14x40	0	326
V52	14x40	0	326	V115	14x40	0	326	V178	12x40	0	326
V53	14x40	0	326	V116	14x40	0	326	V179	14x40	0	326
V54	14x40	0	326	V117	14x40	0	326	V180	14x40	0	326
V55	14x40	0	326	V118	14x40	0	326	V181	12x40	0	326
V56	14x40	0	326	V119	14x40	0	326	V182	14x40	0	326
V57	14x40	0	326	V120	14x40	0	326	V183	14x40	0	326
V58	14x40	0	326	V121	12x40	0	326	V184	14x40	0	326
V59	14x40	0	326	V122	12x20	0	326	V185	14x40	0	326
V60	14x40	0	326	V123	12x40	0	326	V186	14x40	0	326
V61	14x40	0	326	V124	14x40	0	326	V187	14x40	0	326
V62	14x40	0	326	V125	14x40	0	326	V188	14x20	-98	228
V63	14x40	0	326	V126	14x40	0	326	V189	14x20	-98	228

Lajes									
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível da base (cm)	Peso próprio (kg/m²)	Permanente (kg/m²)	Acidental (kg/m²)	Localizada	
L1	Moldura	13	-98	228	130	325	100	50	-
L2	Pre-moldada	13	-98	228	130	211	100	50	-

Características dos materiais		
fck (kgf/cm²)	300	
Abatimento (cm)	12,00	

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



03	JANEIRO/2023	Revisão geral da disciplina conforme a atualização da arquitetura. Redimensionamento dos elementos estruturais e acréscimo de elementos para adequação da arquitetura. Alinhamento a NBR 6120:2014 e NBR 6122:2019.
02	JANEIRO/2017	Atendimento a NBR 9080:2015. Alteração: quadro de áreas, fechamento frontal, sanitários 1 e 2, altura da plataforma, mobiliário e equipamento, altura da rampa nos sanitários, cor das portas dos sanitários e altura da porta PAU. Acréscimo: gratin e quadro de cargas no canteiro d'água, de duchas higiênicas e escaninhos pré-escola.
01	JULHO/2016	Alteração paredes + shaft para tubulação hidráulica e deabamento; alteração da altura da plataforma.

Nº	DATA	DESCRIÇÃO
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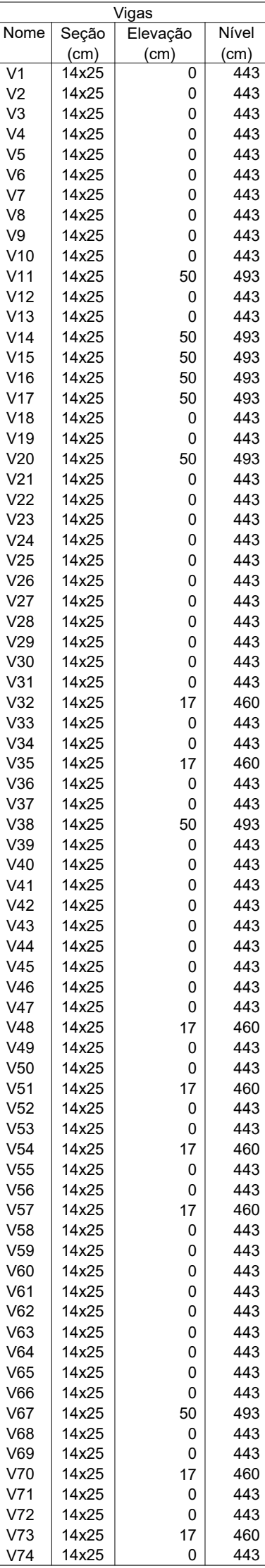
CONTROLE DE REVISÕES	
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PROJETO PADRÃO - FNE	
PROPRIETÁRIO:	
ENDEREÇO:	
MUNICÍPIO - UF:	
PROPRIETÁRIO:	
RESP. TÉCNICO:	CAU / CREA
AUTOR DO PROJETO:	CAU / CREA
APROVAÇÕES	CAU / CREA
PREFEITURA / RA	

OBSERVAÇÕES:	
--------------	--

1 FORMA DO PAVIMENTO COBERTURA
ESCALA 1/75

COORDENAÇÃO		PLANTA DE FORMA PAVIMENTO COBERTURA	SCO
CCEST - Coordenação Geral de Infraestrutura Educativa		REVISÃO R.00 R.03 R.01 R.02	PRONCHIA
FORMATO (1189x841)		ESCALA 1/75 DATA EMISSÃO JAN/2023	07/33



Características dos materiais	
fck (kgf/cm ²)	Abstimento (cm)
300	12.00

Legenda dos pilares	
	Pilar que morre

03	JANEIRO/2017	Revisão geral da disciplina conforme a atualização da arquitetura. Redimensionamento dos elementos estruturais e acréscimo de elementos para adequação da arquitetura. Atualização a NBR 6122/2014 e NBR 6122/2010
	JANEIRO/2017	Atendimento a NBR 9062/2015 Alteração: quarto de enfermo, fechamento frontal, sanitários 1 e 2, altura da platibanda, mobiliário e equipamentos para adequação às normas por onde são acessadas a altura do portão. Autômico: grade 1 e quadro de cargas no castelo d'água, de duchas higiênicas e escanifones pré-escola.
01	JULHO/2016	Alteração paredes - shaft para tubulação hidráulica e detalhamento; alteração da altura da platibanda.
Nº	DATA	DESCRIÇÃO
CONTROLE DE REVISÕES		

FNDE MINISTÉRIO DA
EDUCAÇÃO

PROJETO PADRÃO - FNDE

PROPRIETÁRIO:
ENDEREÇO:
MUNICÍPIO - UF:

PROPRIETÁRIO: _____

RESP. TÉCNICO: _____ CAU / CREA _____

AUTOR DO PROJETO: _____ CAU / CREA _____

APROVAÇÕES	CAJ / CREA
	PREFEITURA / RA

OBSERVAÇÕES

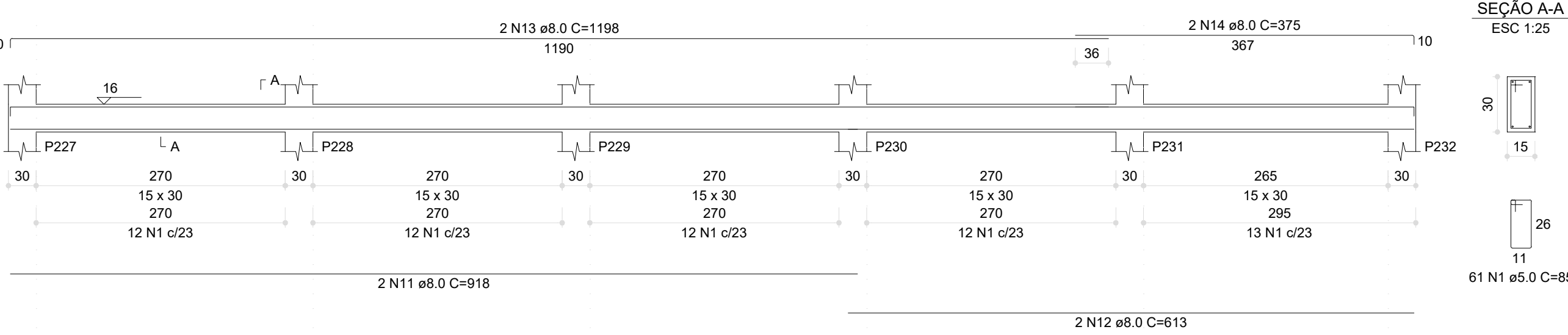
CRECHE PRÉ-ESCOLA TIPO 1

PROJETO DE ESTRUTURA DE CONCRETO

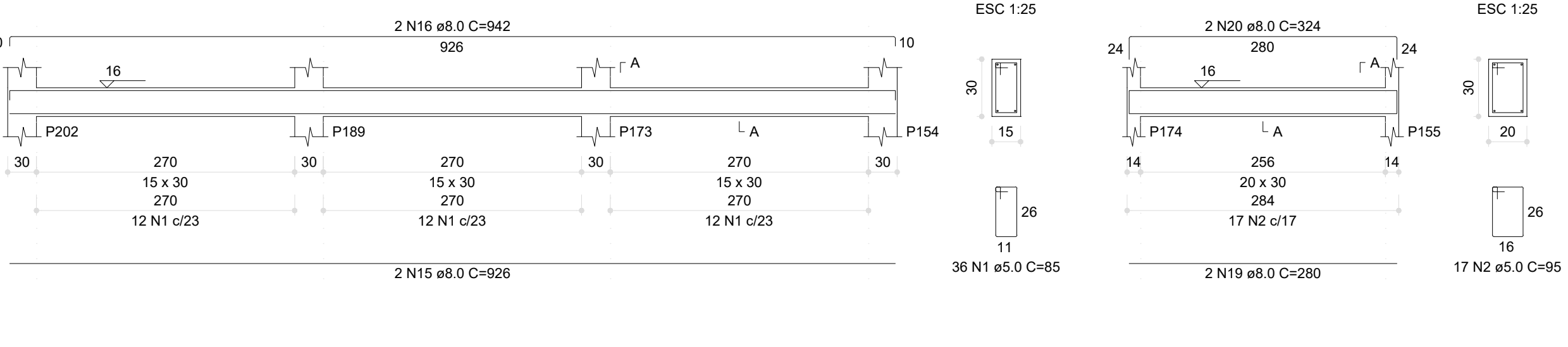
COORDENAÇÃO CGEST - Coordenação Geral de Infraestrutura Educativa	PLANTA DE FORMA PAVIMENTO PLATIBANDA		SCO
	REVISÃO R.00 R.03	ESCALA 1:75	PRANCHA
FORMATO (1189x841)	R.01 R.02	DATA EMISSÃO JAN/2023	08/33

1 **FORMA DO PAVIMENTO PLATIBANDA**
ESCALA 1/75

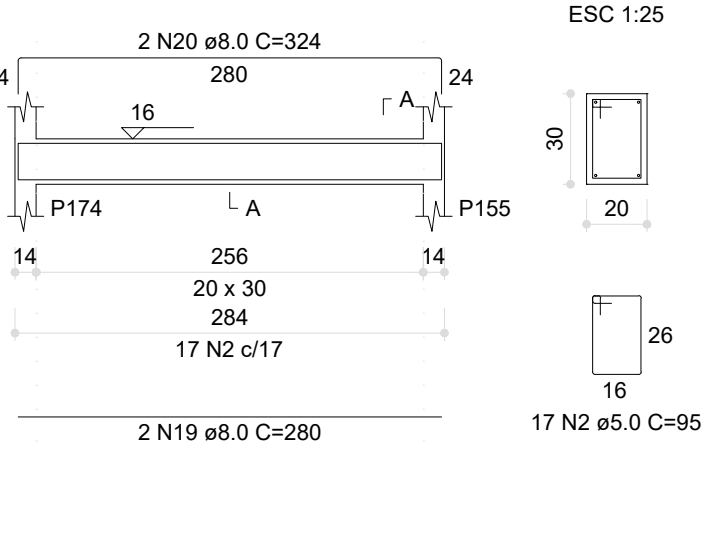
V110 (15 x 30)



V113 (15 x 30)



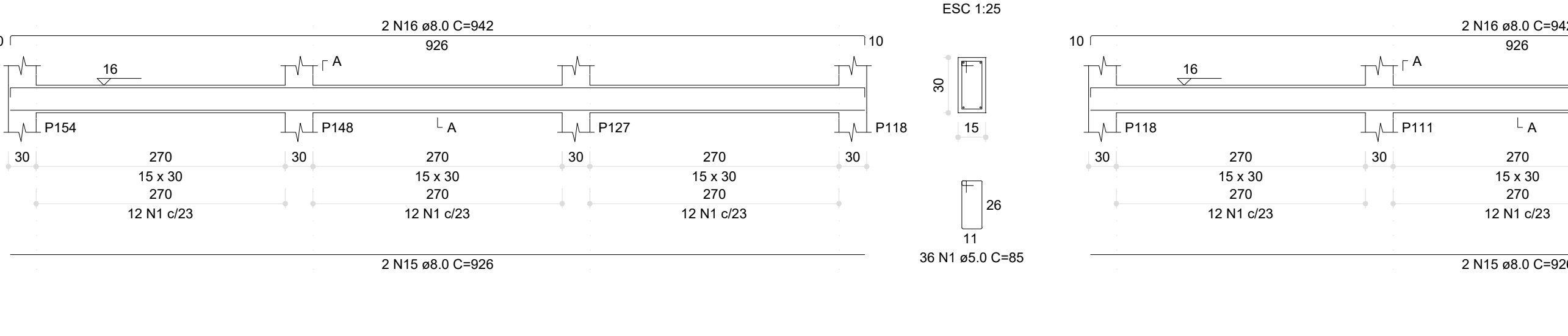
V118 (20 x 30)



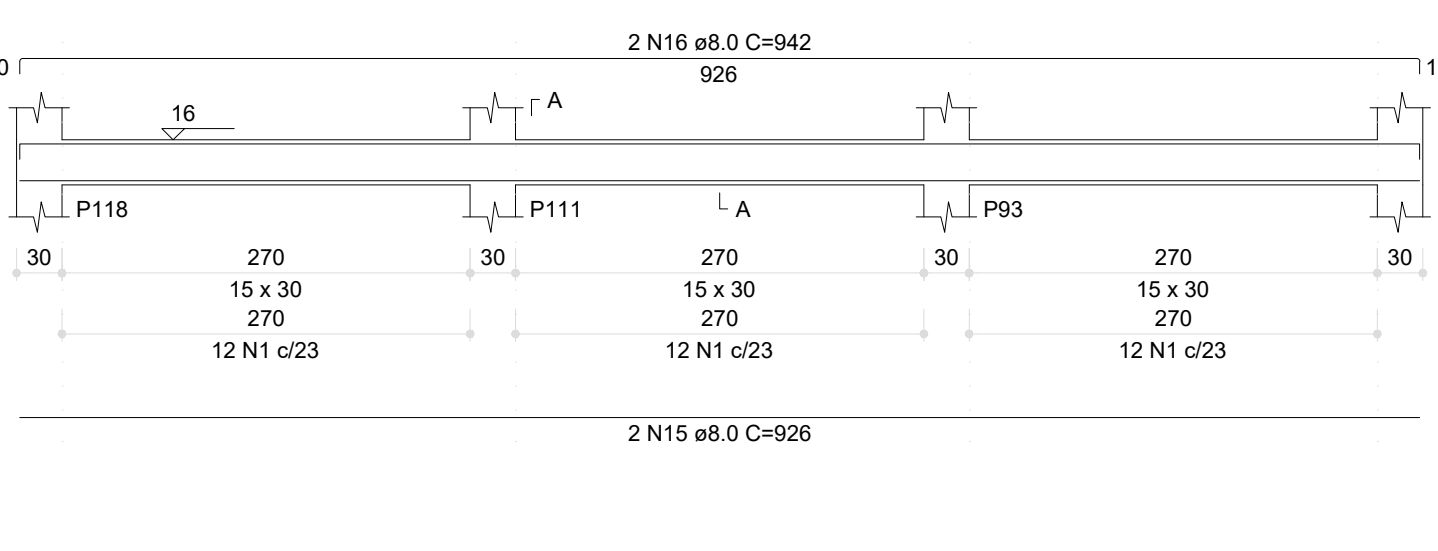
RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	225	85	1912
	2	5.0	440	95	4180
	3	5.0	16	100	240
	4	5.0	8	79	63
	5	5.0	2	31	62
	6	5.0	3	24	72
	7	5.0	3	24	72
	8	5.0	4	166	664
	9	5.0	2	269	538
	10	5.0	2	136	272
CA50	11	8.0	4	918	3672
	12	8.0	2	613	1226
	13	8.0	2	1108	4192
	14	8.0	2	375	750
	15	8.0	6	926	5556
	16	8.0	6	942	5652
	17	8.0	2	519	1038
	18	8.0	2	281	562
	19	8.0	2	260	520
	20	8.0	2	324	648
CA50	21	8.0	4	115	460
	22	8.0	2	268	536
	23	8.0	2	54	108
	24	8.0	2	78	156
	25	8.0	2	31	62
	26	8.0	2	348	696
	27	8.0	2	212	424
	28	8.0	2	71	142
	29	8.0	4	269	1076
	30	8.0	2	74	148
CA50	31	8.0	2	110	220
	32	8.0	2	162	324
	33	8.0	2	376	752
	34	8.0	2	404	808
	35	8.0	2	136	272
	36	10.0	2	268	536
	37	10.0	2	143	286
	38	10.0	6	81	486
	39	10.0	2	511	1022
	40	10.0	2	710	1420
CA50	41	10.0	2	494	988
	42	10.0	2	758	1516
	43	12.5	6	549	3294
	44	12.5	2	573	1146
	45	12.5	2	573	1146
	46	12.5	2	548	1096
	47	12.5	2	872	1744
	48	12.5	2	574	1148
	49	12.5	1	277	277
	50	12.5	2	555	1110
CA50	51	12.5	2	538	1076
	52	12.5	2	561	1122
	53	12.5	1	333	333
	54	12.5	2	600	1200
	55	12.5	1	245	245
	56	12.5	2	682	1364
	57	12.5	6	337	2022
	58	20.0	2	323	646
	59	20.0	2	323	646
	60	20.0	2	323	646

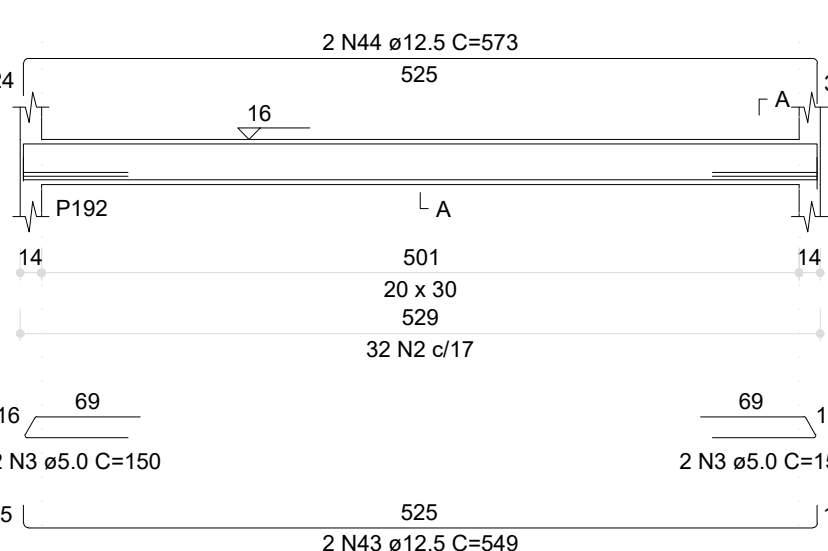
V114 (15 x 30)



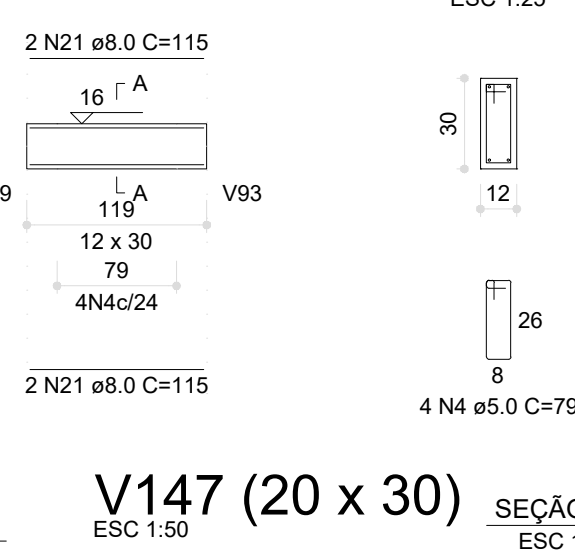
V115 (15 x 30)



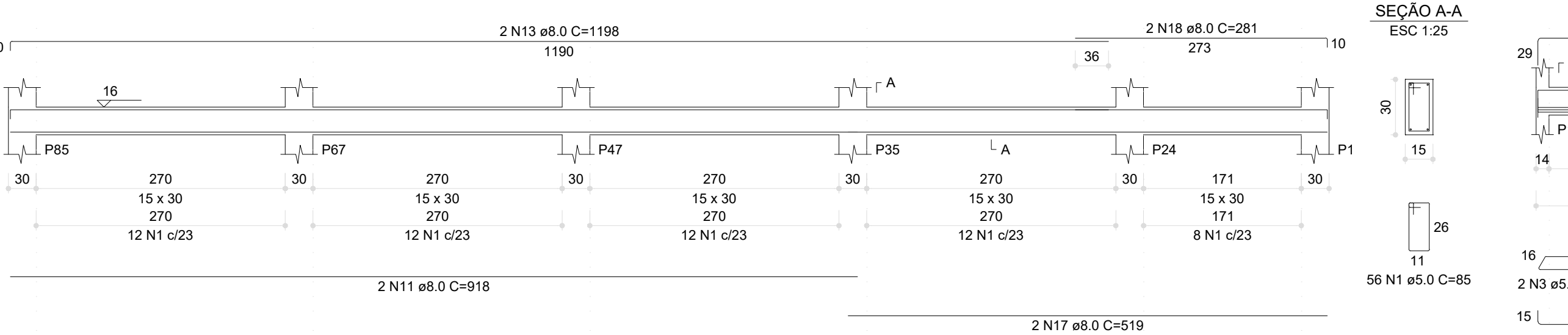
V117 (20 x 30)



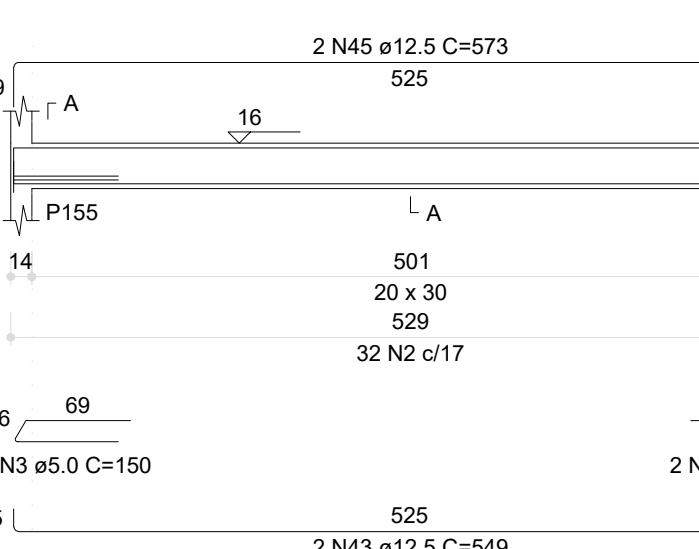
V123 (12 x 30)



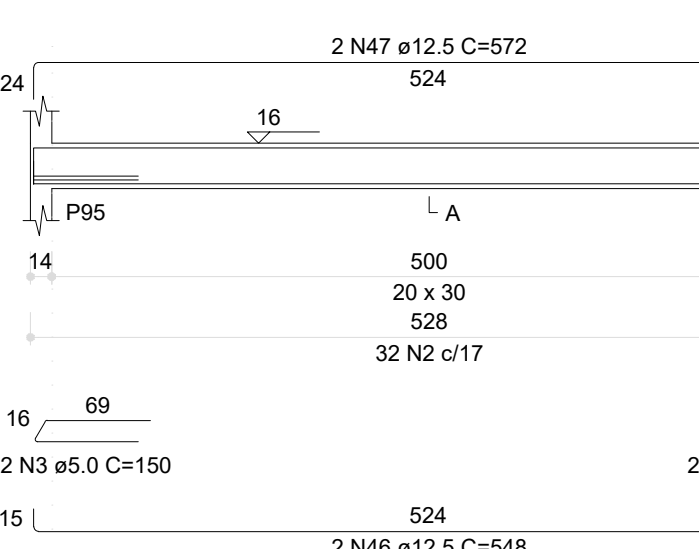
V116 (15 x 30)



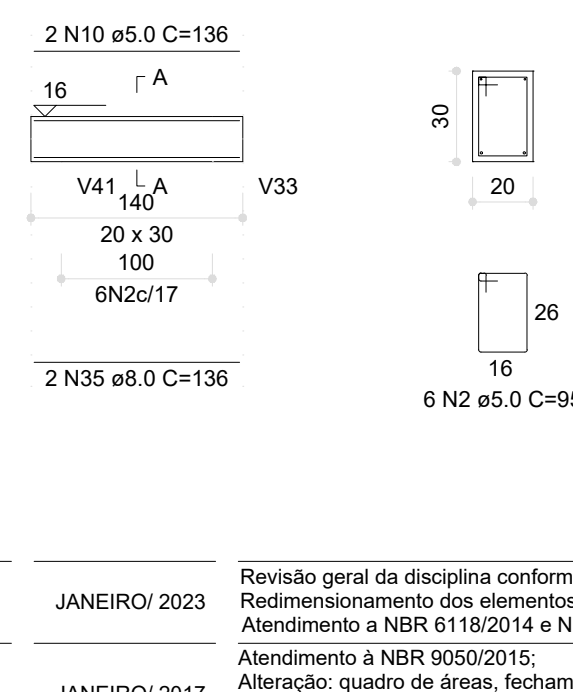
V119 (20 x 30)



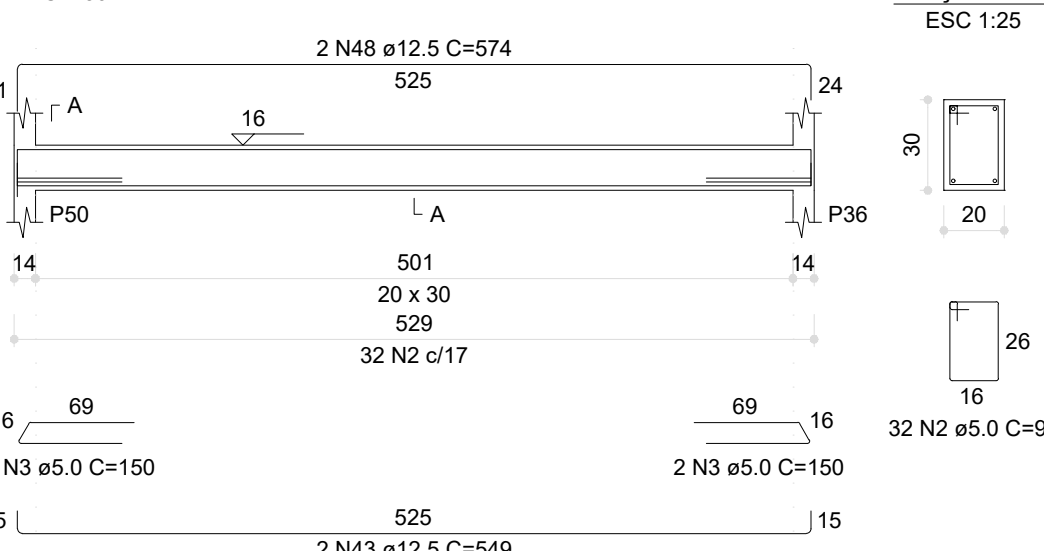
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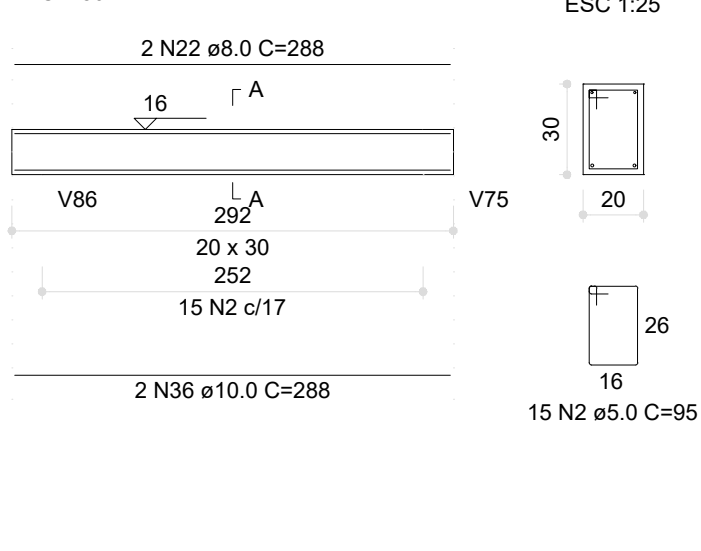
V147 (20 x 30)



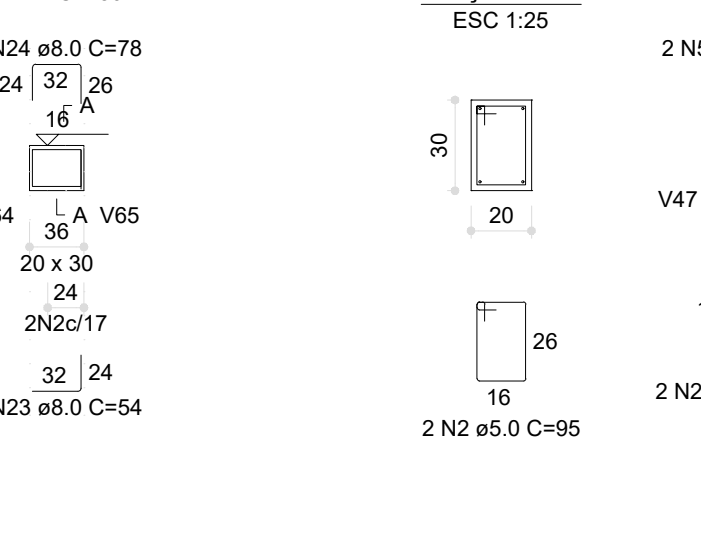
V122 (20 x 30)



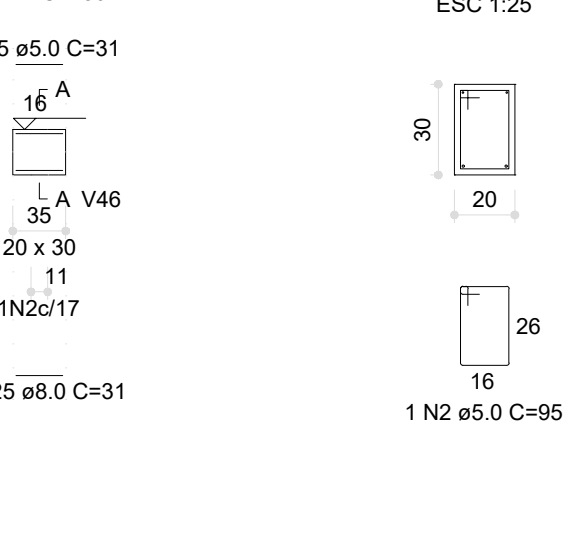
V124 (20 x 30)



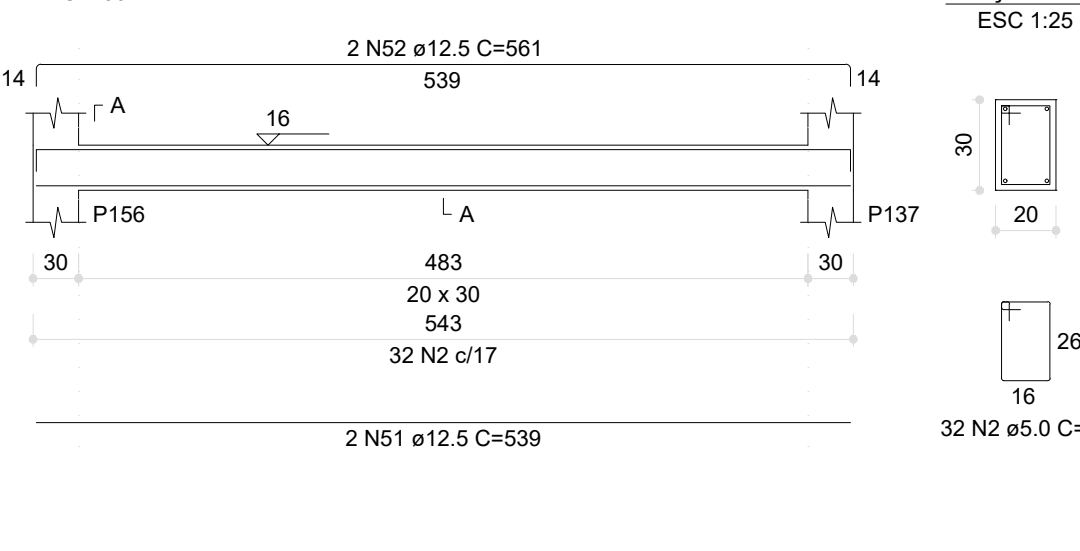
V125 (20 x 30)



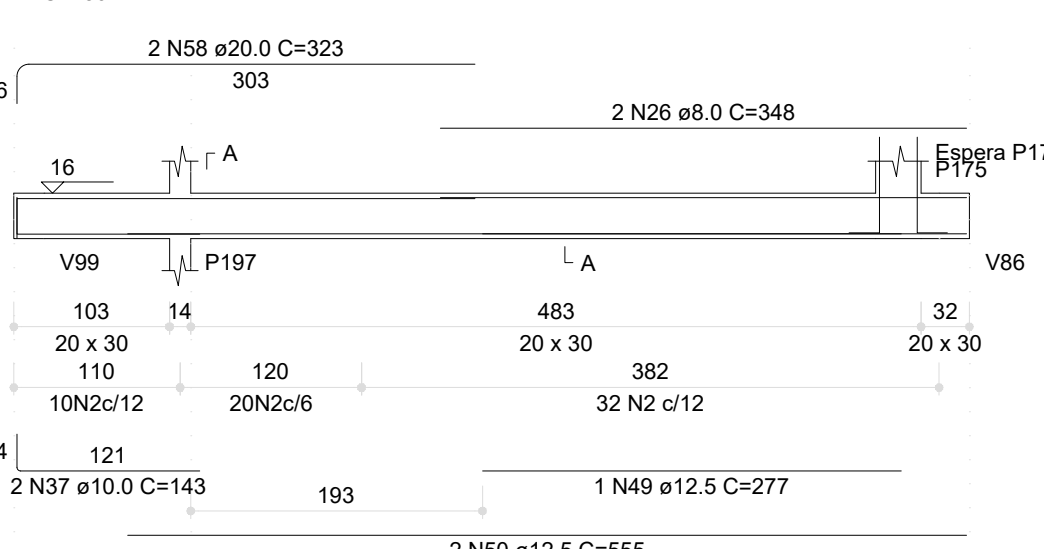
V126 (20 x 30)



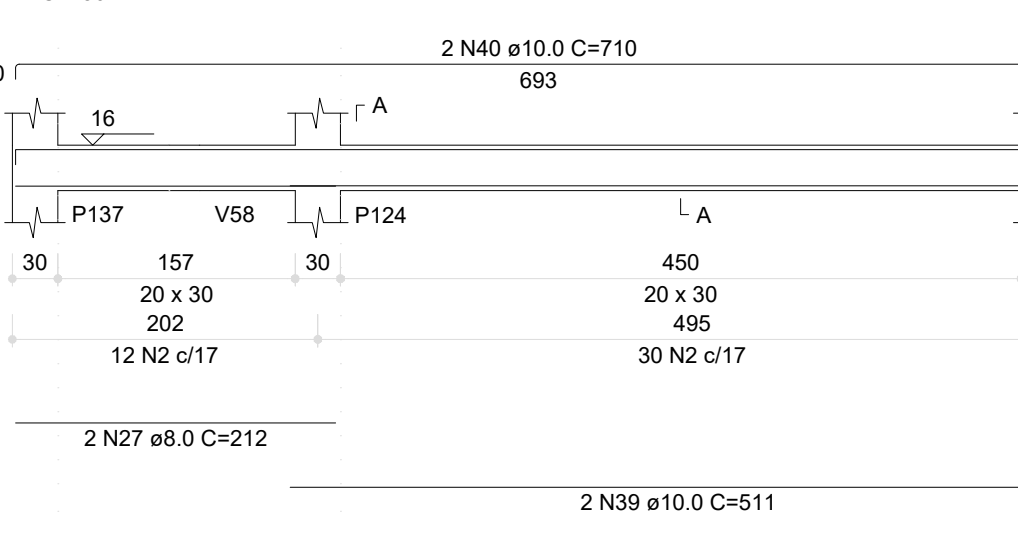
V128 (20 x 30)



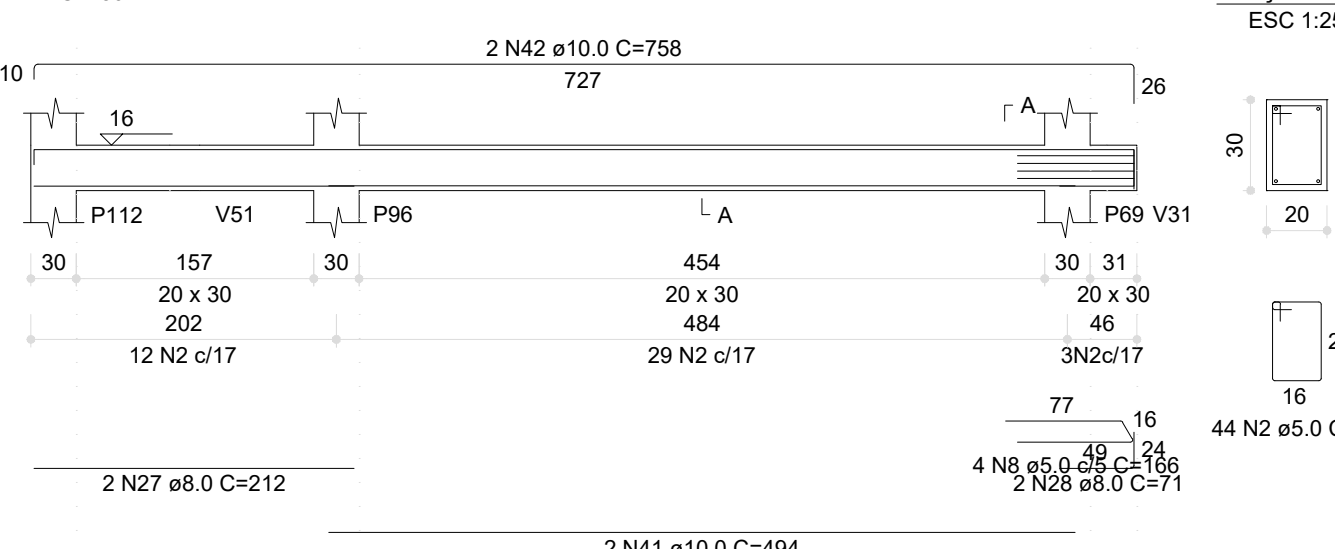
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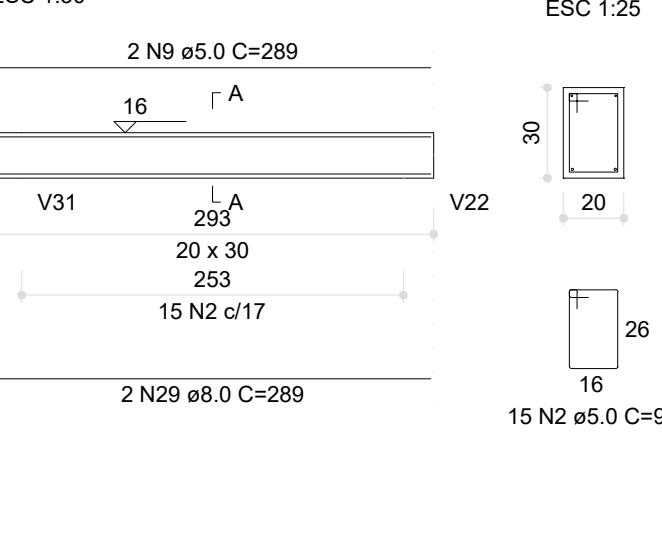
V129 (20 x 30)



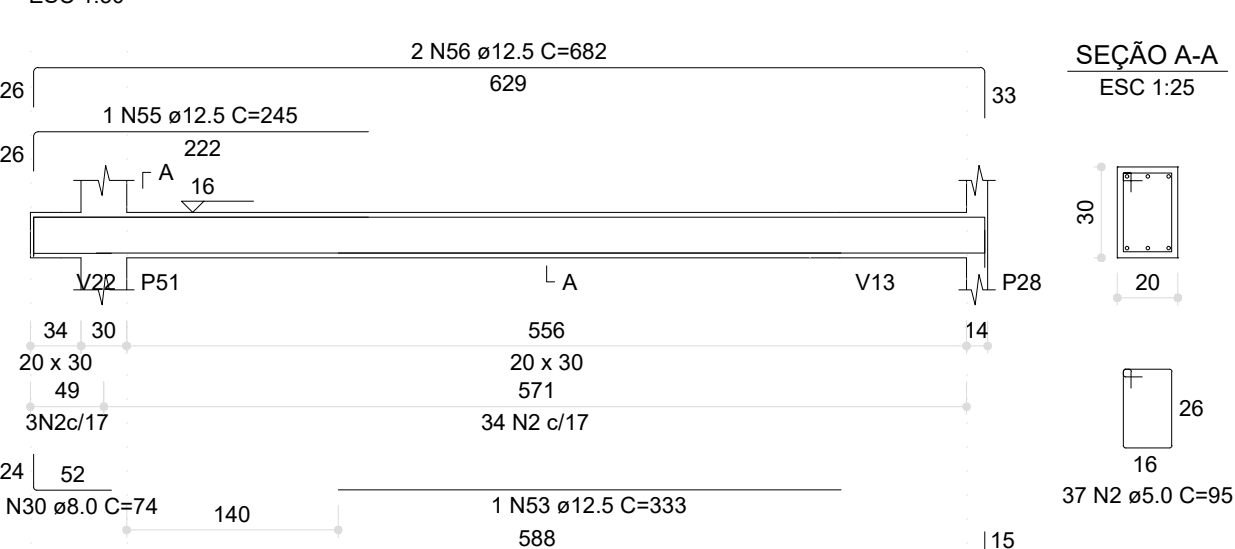
V130 (20 x 30)



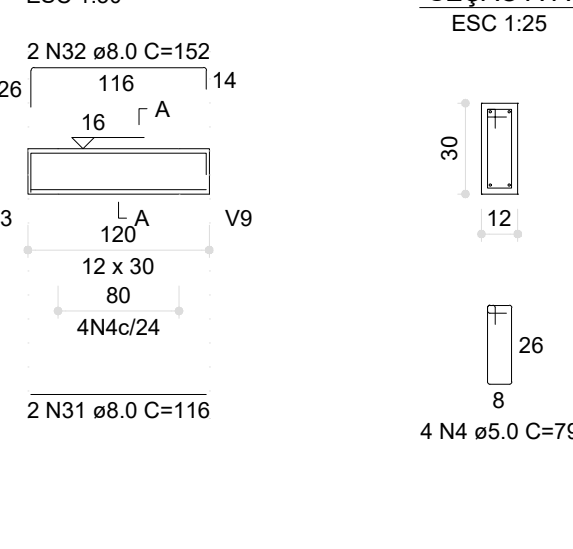
V131 (20 x 30)



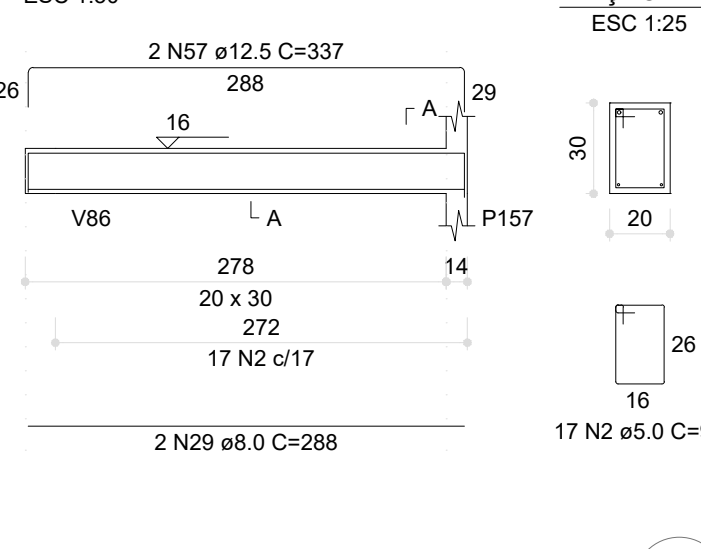
V132 (20 x 30)



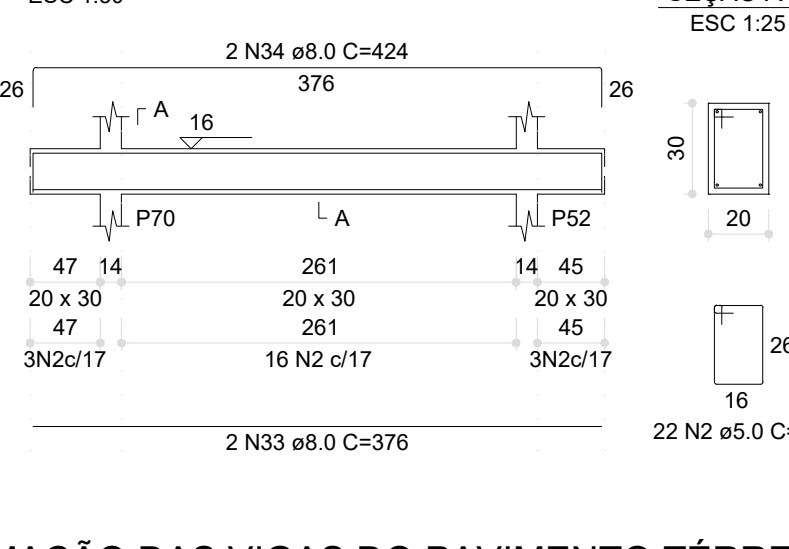
V133 (12 x 30)



V134 (20 x 30)

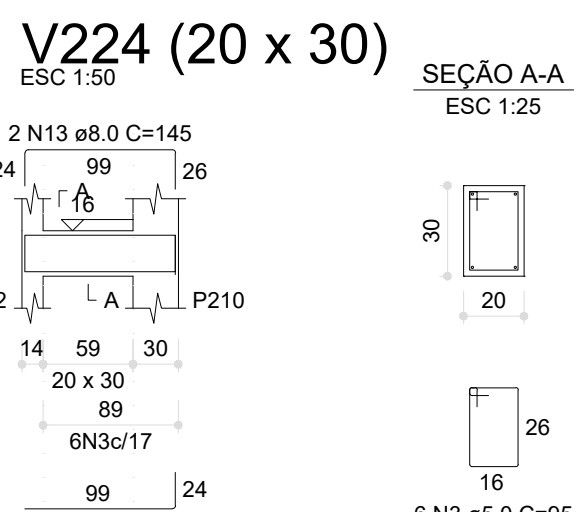
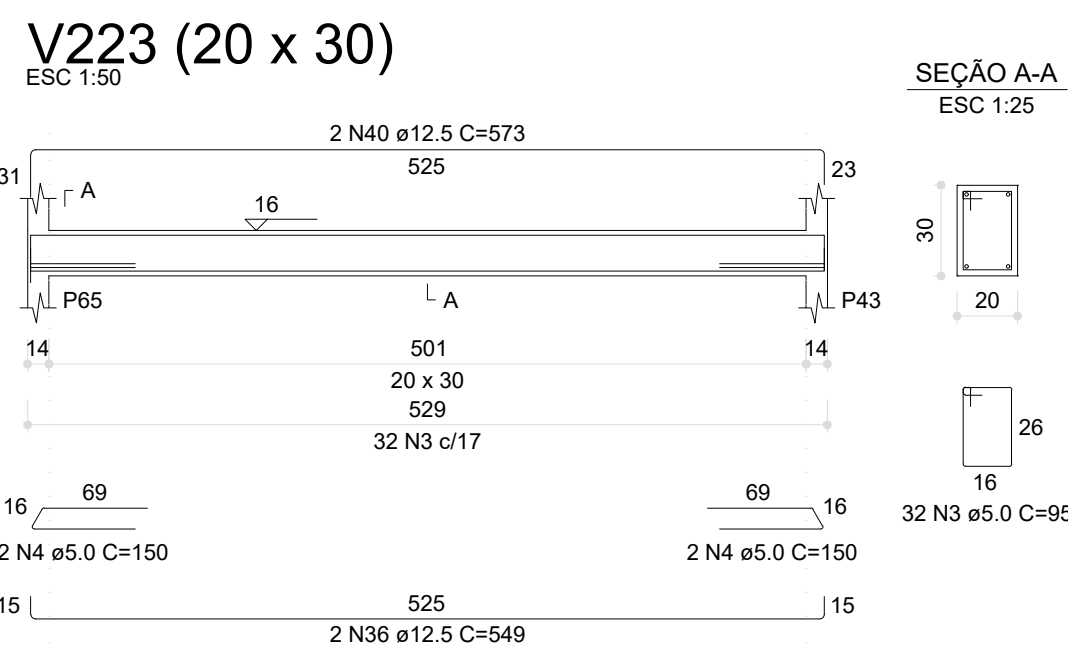
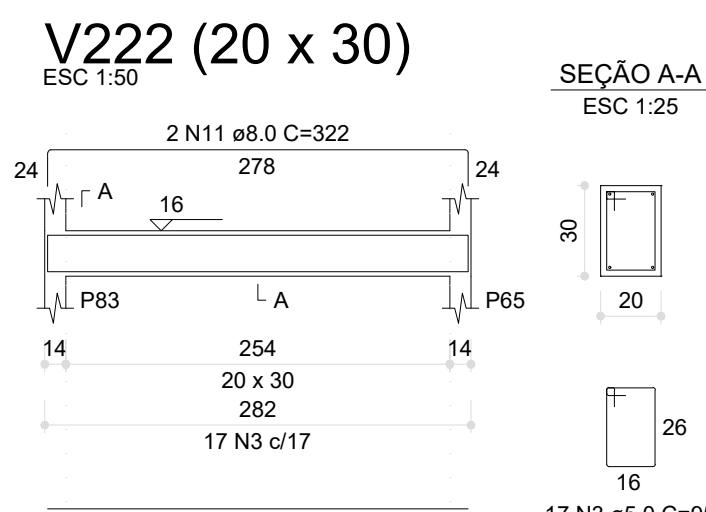
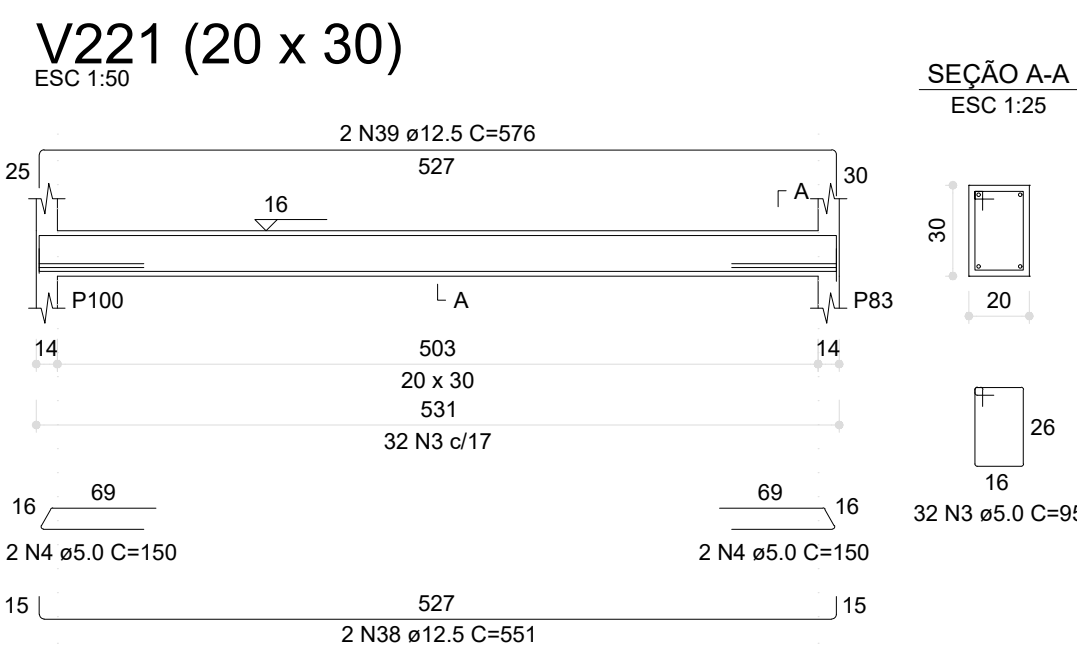
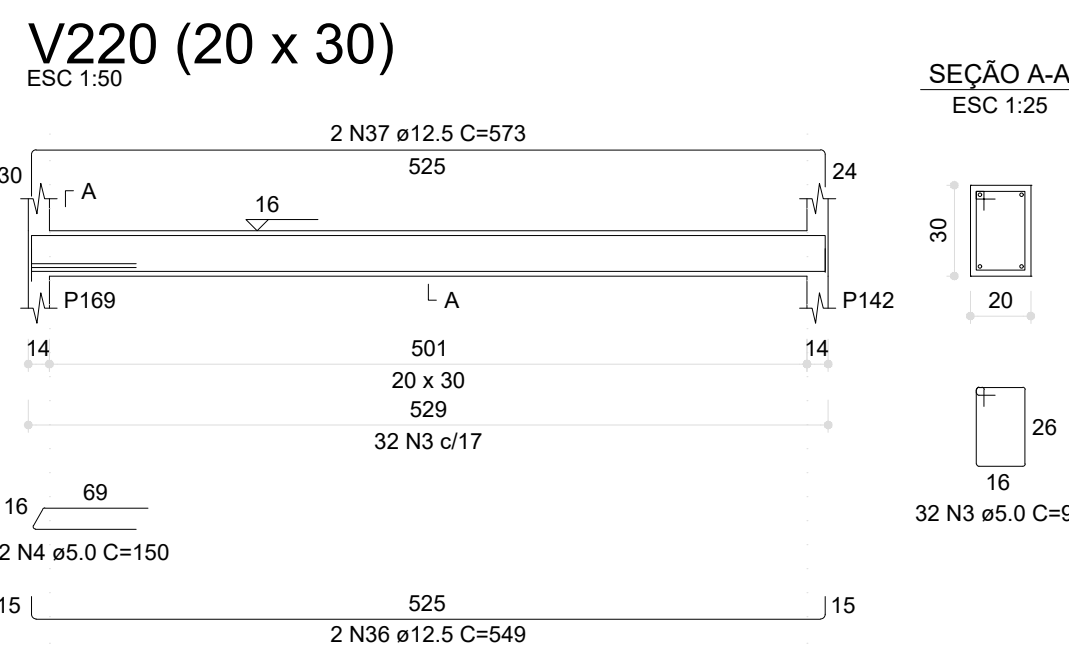
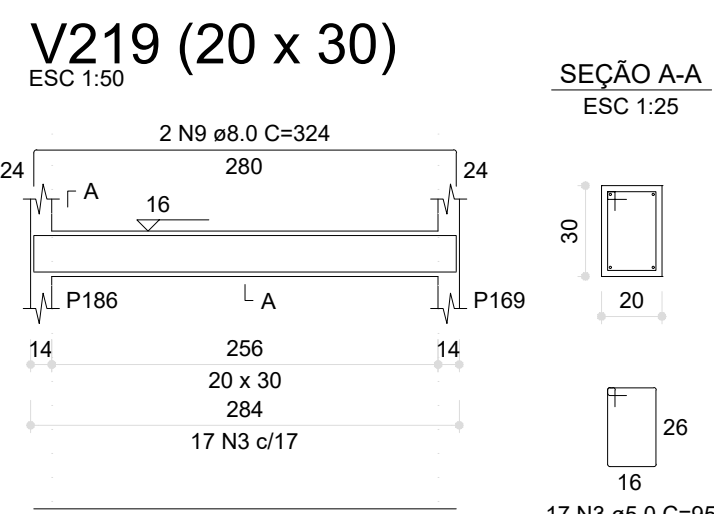
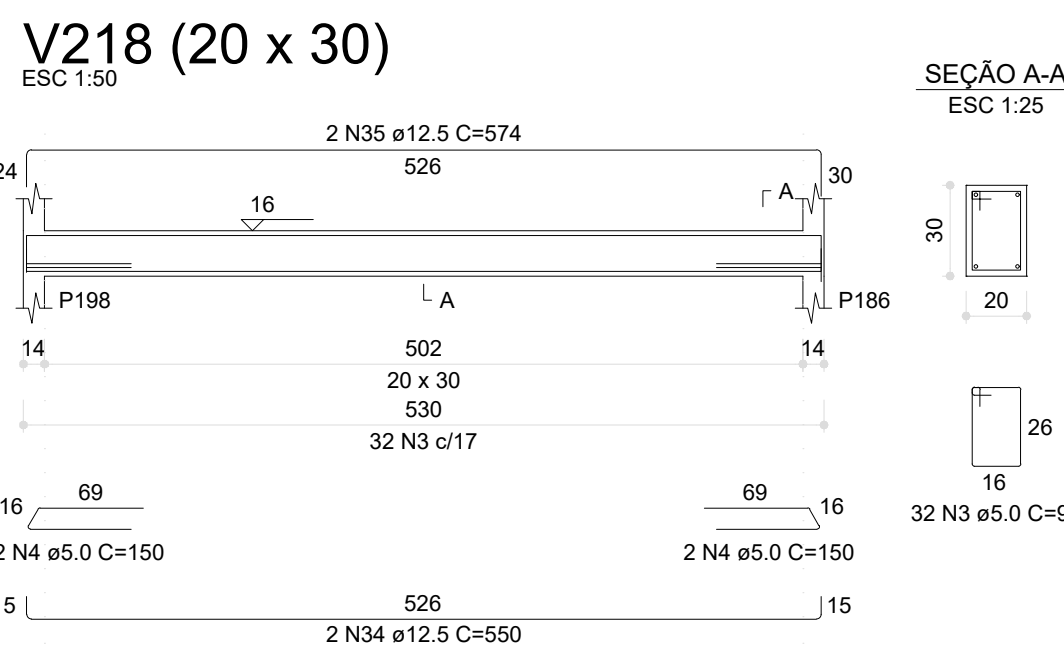
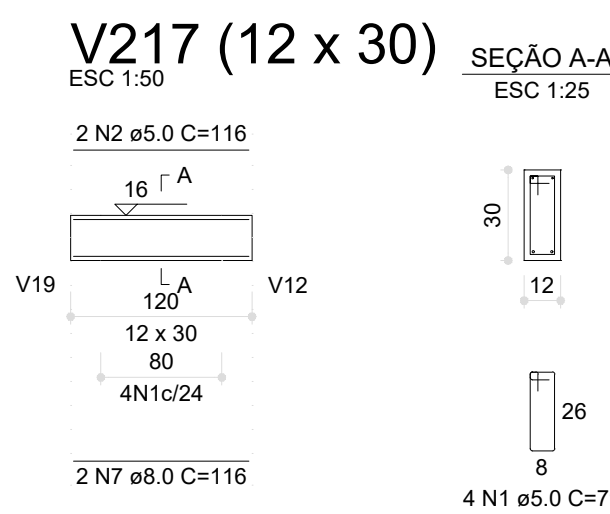


V135 (20 x 30)

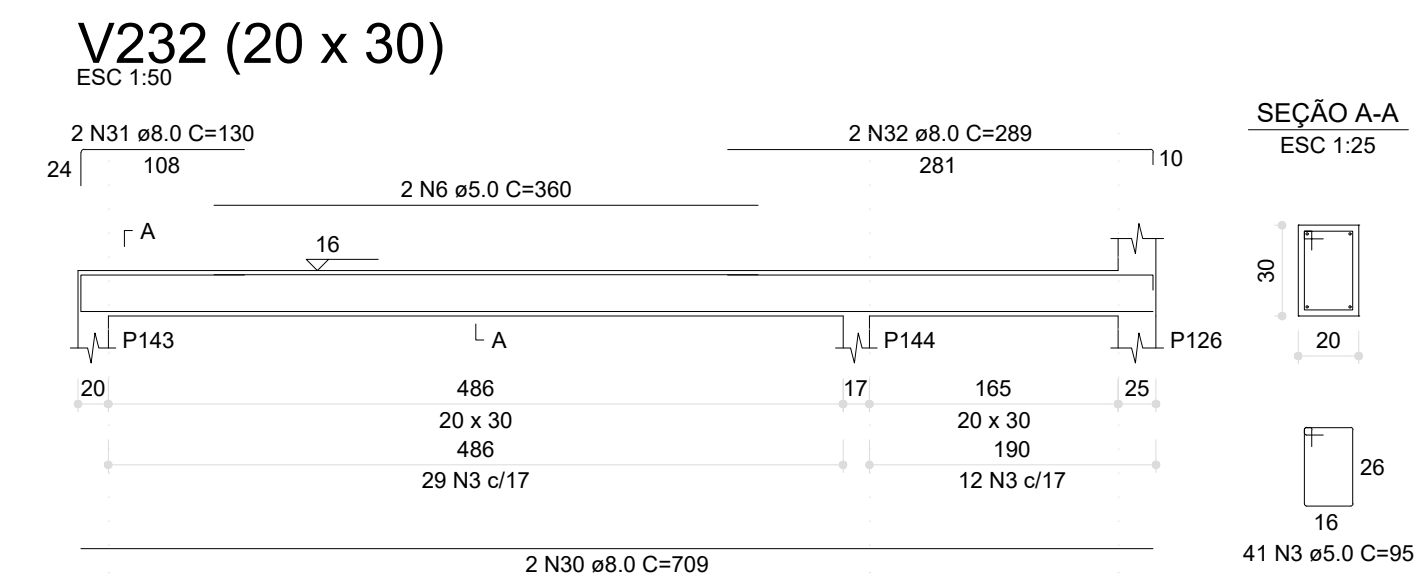
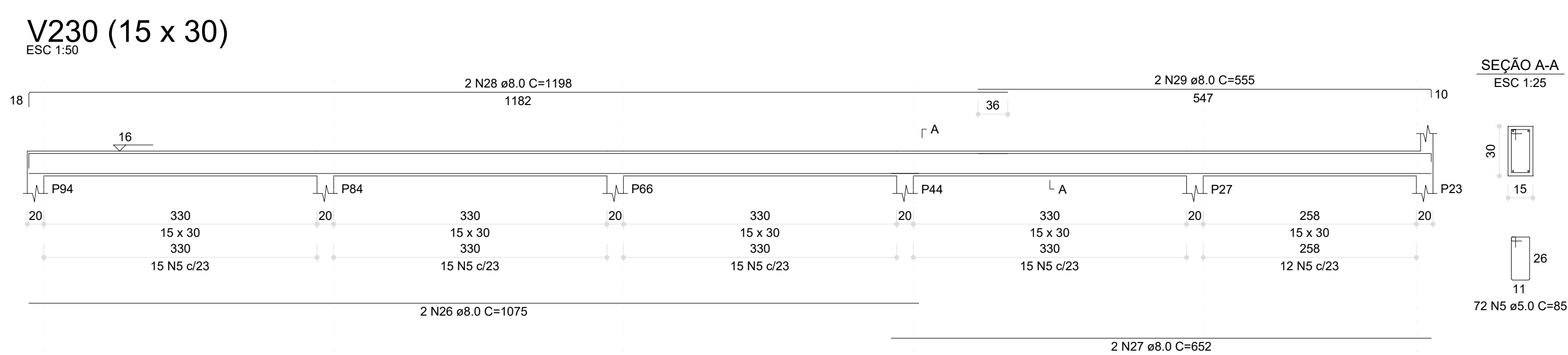
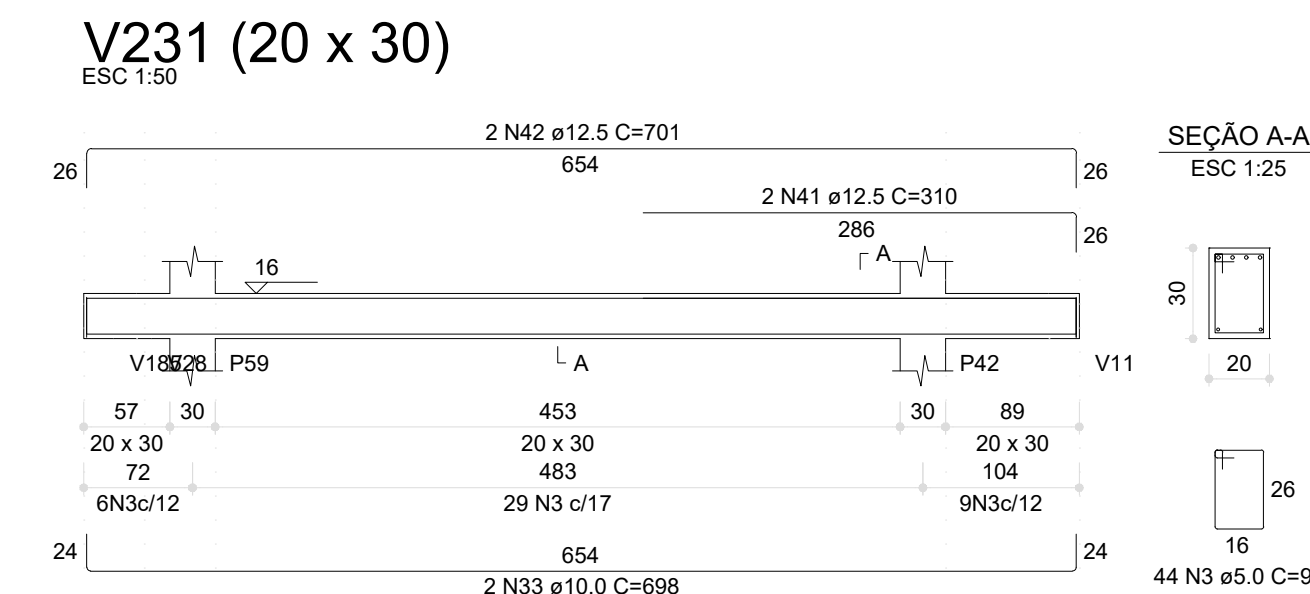
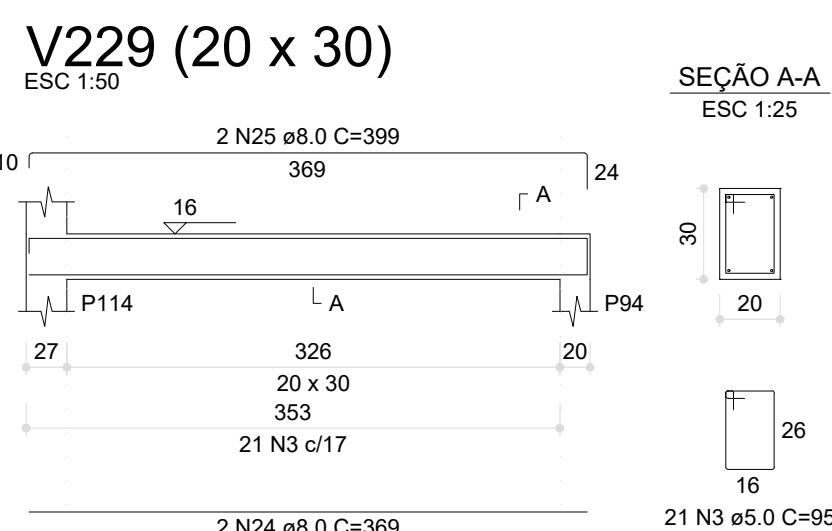
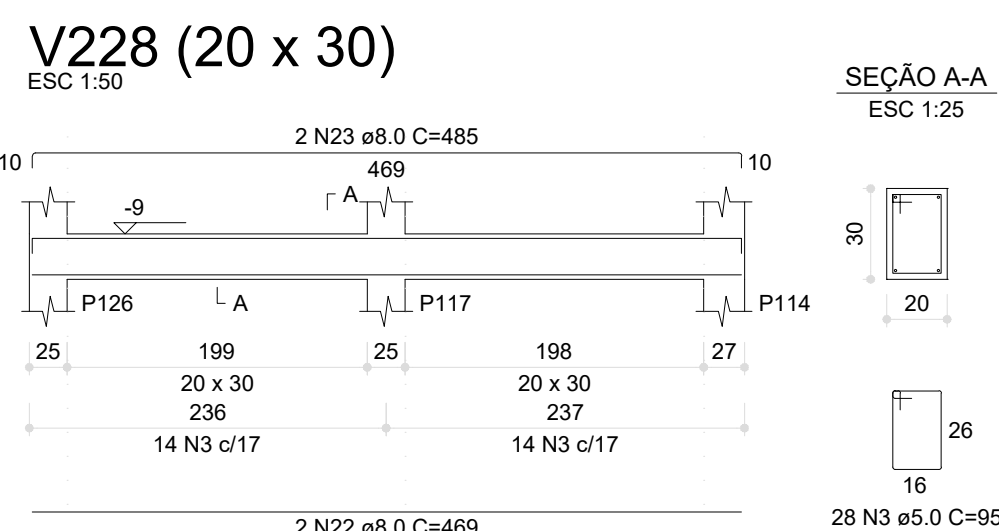
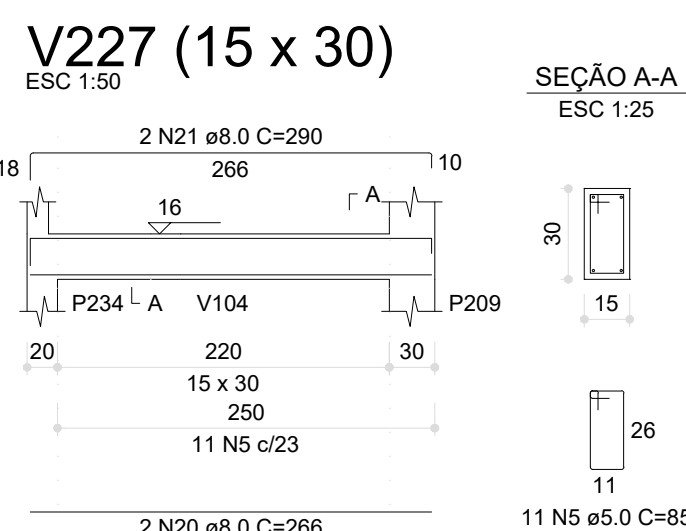
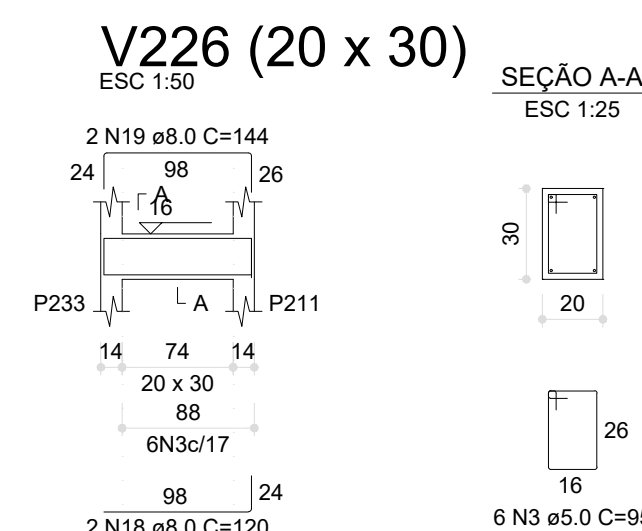
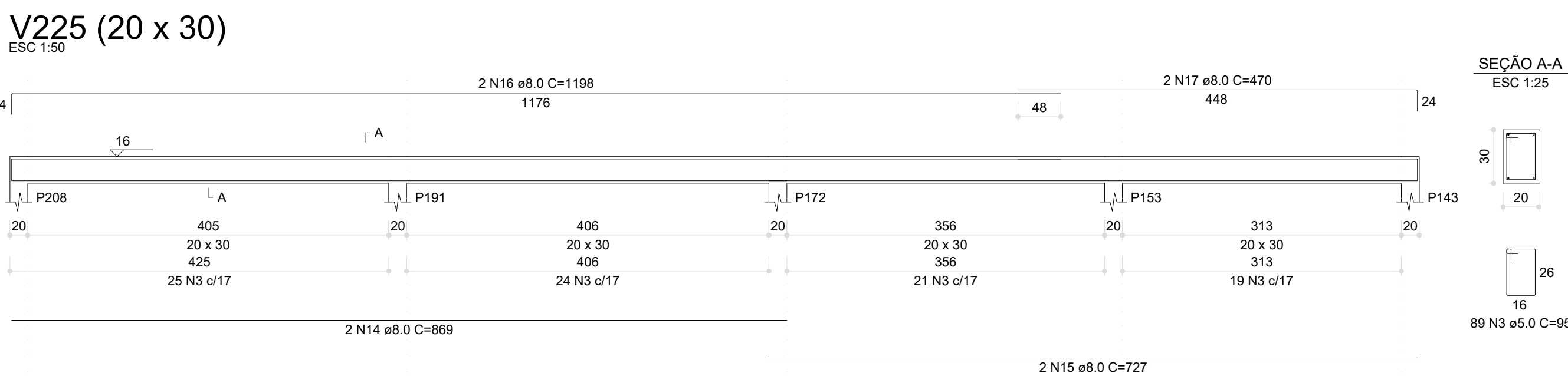


PROJETO PADRÃO - FNDE

PROPRIETÁRIO:			
ENDEREÇO:			
MUNICÍPIO - UF:			
PROPRIETÁRIO:			
RESP. TÉCNICO:	CAU / CREA		
AUTOR DO PROJETO:	CAU / CREA		
APROVAÇÕES	CAU / CREA		
OBSERVAÇÕES:			
CRECHE PRÉ-ESCOLA TIPO 1			
PROJETO DE ESTRUTURA DE CONCRETO			
COORDENAÇÃO	DETALHAMENTO ARMAÇÃO DAS VIGAS		SCO
CGEST - Coordenação Geral de Infraestrutura Educacional	PAVIMENTO TÉRREO		
	PARTE 05		
REVISÃO	ESCALA	FRANCHA	
R.00 R.03	1:25 / 1:50		
R.01	DATA EMISSÃO		
R.02	JAN/2023		
FORMATO (841x594)			13/33



AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA80	1	5.0	4	79	316
	2	5.0	2	116	232
	3	5.0	397	96	37716
	4	5.0	14	150	2100
CA50	5	5.0	83	85	7055
	6	5.0	360	720	25920
	7	8.0	116	232	26912
	8	8.0	280	560	15680
	9	8.0	324	648	21072
	10	8.0	278	556	15456
	11	8.0	322	644	20736
	12	8.0	121	242	29282
	13	8.0	145	290	41850
	14	8.0	889	1738	153882
	15	8.0	727	1454	105738
	16	8.0	1198	2396	286988
	17	8.0	470	940	44180
	18	8.0	120	240	28800
	19	8.0	144	288	41472
	20	8.0	266	532	141512
	21	8.0	290	580	168200
	22	8.0	480	936	450080
	23	8.0	485	970	470550
	24	8.0	369	738	272202
	25	8.0	399	798	319402
	26	8.0	1075	2150	2311750
	27	8.0	652	1304	850208
	28	8.0	1198	2396	286988
	29	8.0	555	1110	616050
	30	8.0	709	1418	1004262
	31	8.0	130	260	33800
	32	8.0	289	578	167042
	33	10.0	698	1396	974008
	34	12.5	550	1100	605000
	35	12.5	574	1148	658352
	36	12.5	549	1098	601702
	37	12.5	573	1146	656658
	38	12.5	551	1102	606902
	39	12.5	576	1152	663456
	40	12.5	573	1146	656658
	41	12.5	310	620	192200
	42	12.5	701	1402	982802



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 6% (kg)
CA50	8.0	240	94.7
	10.0	14	8.6
	12.5	110.1	106.1
CA60	5.0	481.4	74.2

PESO TOTAL (kg)	
CA50	209.4
CA60	74.2

Volume de concreto (C=30) = 4.55 m³
Área de forma = 63.48 m²

RELAÇÃO DO AÇO

V217	V218	V219
V220	V221	V222
V223	V224	V225
V226	V227	V228
V229	V230	V231
V232		

03	JANEIRO/ 2023	Revisão geral da disciplina conforme a atualização da arquitetura. Redimensionamento dos elementos estruturais e acréscimo de elementos para adequação da arquitetura. Atendimento a NBR 6118/2014 e NBR 6122/2019.
02	JANEIRO/ 2017	Atendimento à NBR 9050/2015; Alteração: quadro de áreas, fechamento frontal, sanitários 1 e 2, altura da platibanda, mobiliário e equipamento, altura da cerâmica nos sanitários, cor dos portões dos solares e altura da porta PA4; Acréscimo: gradil e quadro de cargas no castelo d'água, de duchas higienicas e escaninhos pré-escola.
01	JULHO/ 2016	Alteração paredes - shaft para tubulação hidráulica e detalhamento; alteração da altura da platibanda.
Nº	DATA	DESCRIÇÃO

CONTROLE DE REVISÕES



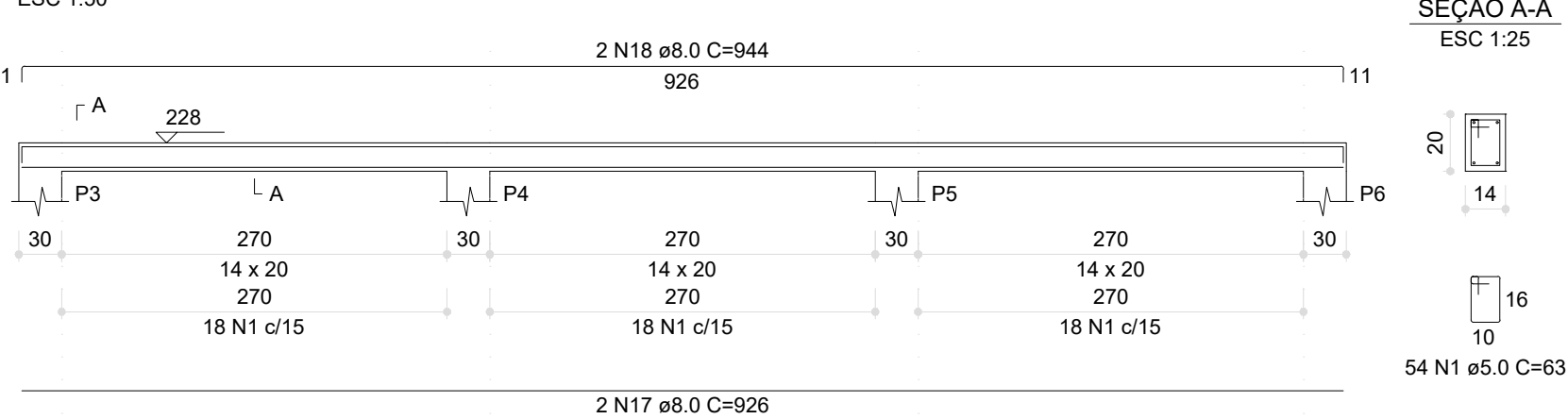
PROJETO PADRÃO - FNDE

PROPRIETÁRIO:	
ENDEREÇO:	
MUNICÍPIO - UF:	
PROPRIETÁRIO:	
RESP. TÉCNICO:	CAU / CREA
AUTOR DO PROJETO:	CAU / CREA
APROVAÇÕES	CAU / CREA
	PREFEITURA / RA
OBSERVAÇÕES:	

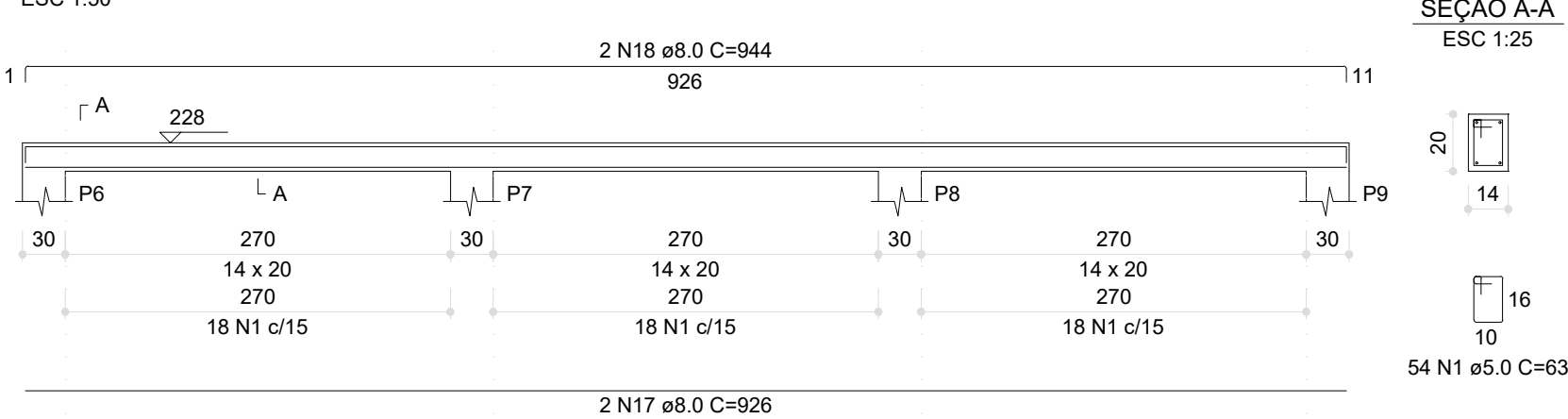
CRECHE PRÉ-ESCOLA TIPO 1 PROJETO DE ESTRUTURA DE CONCRETO

COORDENAÇÃO CGEST - Coordenação Geral de Infraestrutura Educatonal	DETALHAMENTO ARMAÇÃO DAS VIGAS PAVIMENTO TÉRREO PARTE 09	SCO
REVISÃO R.00 R.01 R.02	ESCALA 1:25 / 1:50 DATA EMISSÃO JAN/2023	PRANCHA 17/33
FORMATO (841x594)		

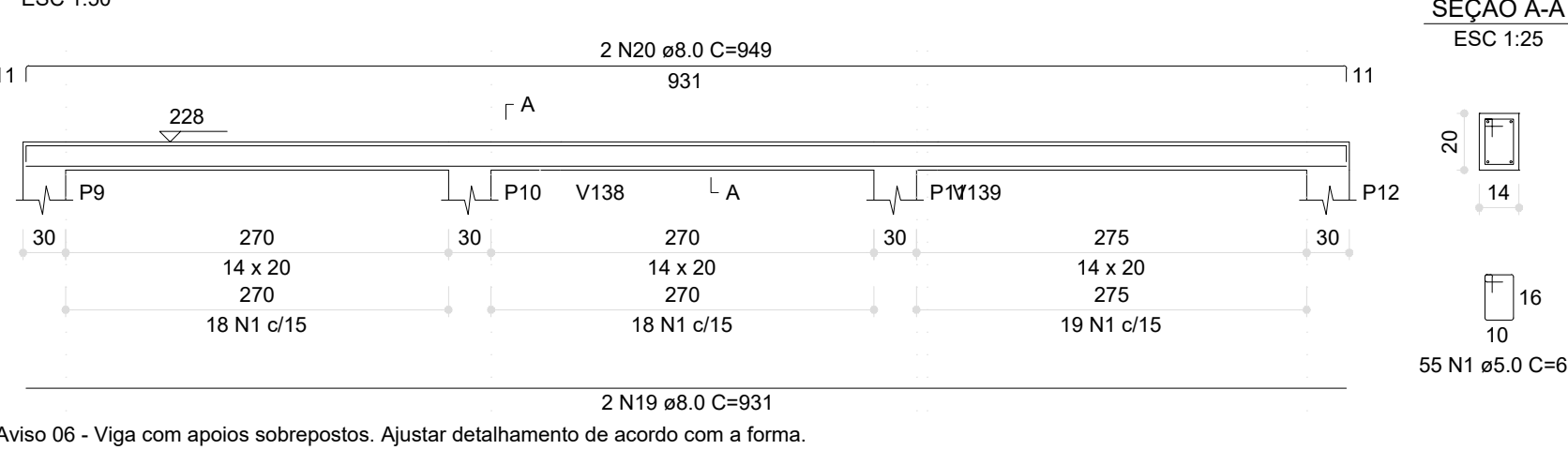
V2 (14 x 20)



V3 (14 x 20)

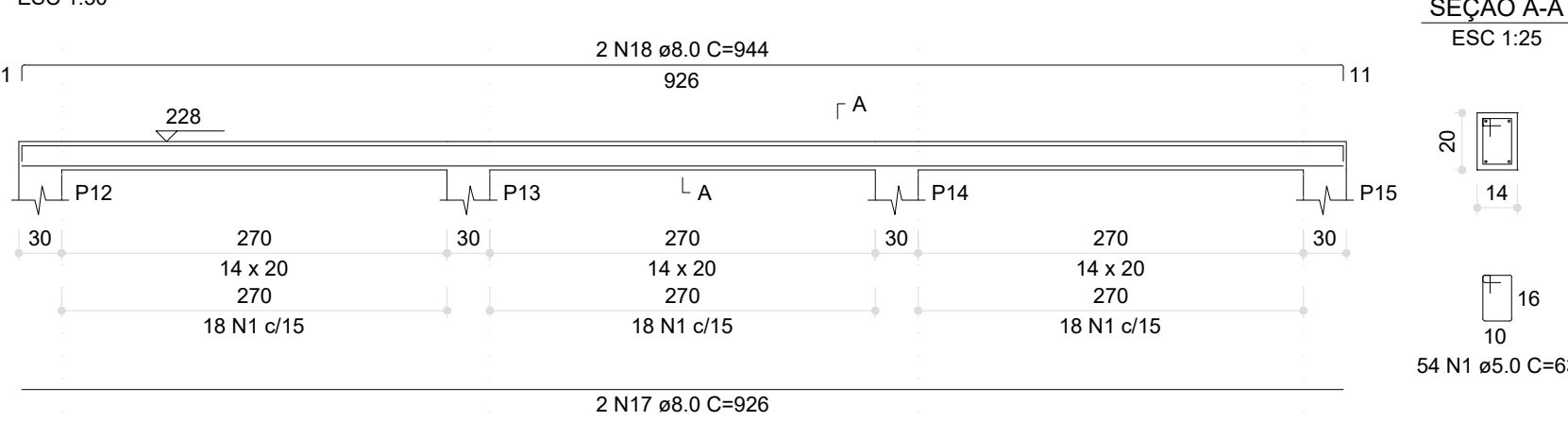


V4 (14 x 20)

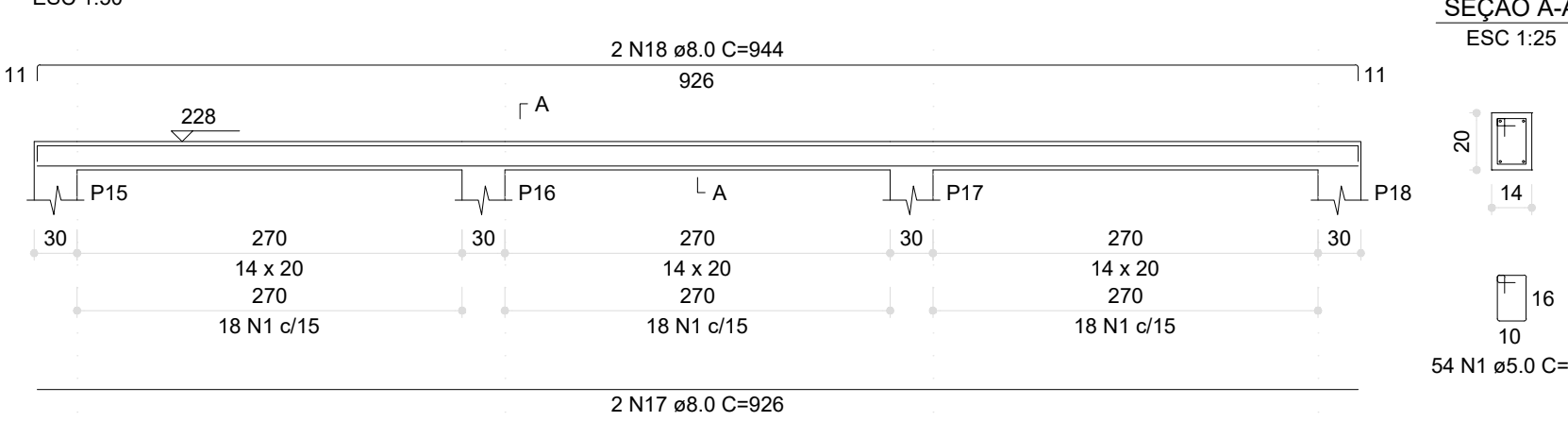


RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	271	63	17073
	2	5.0	18	63	1170
	3	8.0	341	103	35193
	4	5.0	4	152	608
	5	5.0	378	756	2850
	6	5.0	351	702	2463
	7	5.0	164	656	1074
	8	5.0	405	810	3285
	9	5.0	79	1294	1021
	10	5.0	16	169	2704
CA50	11	5.0	345	690	2380
	12	5.0	275	1100	3025
	13	5.0	275	550	1513
	14	5.0	272	544	1480
	15	5.0	79	316	2507
	16	5.0	110	220	2420
	17	8.0	926	7408	6864
	18	8.0	944	7552	7088
	19	8.0	931	1852	1717
	20	8.0	949	1896	1776

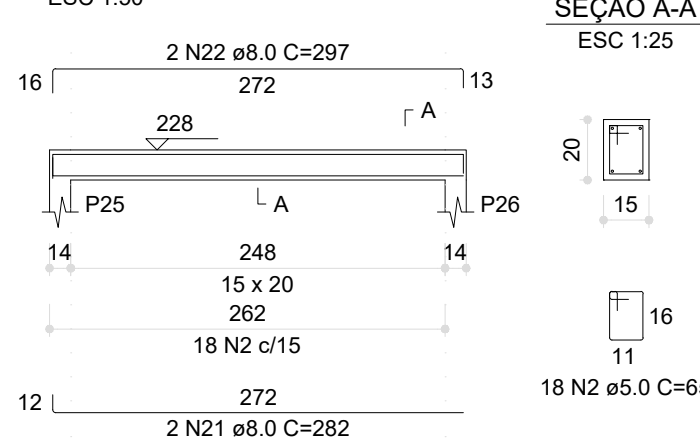
V5 (14 x 20)



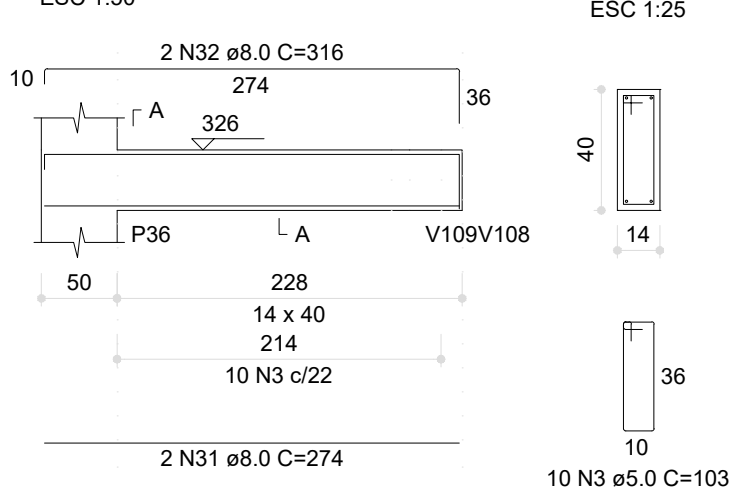
V6 (14 x 20)



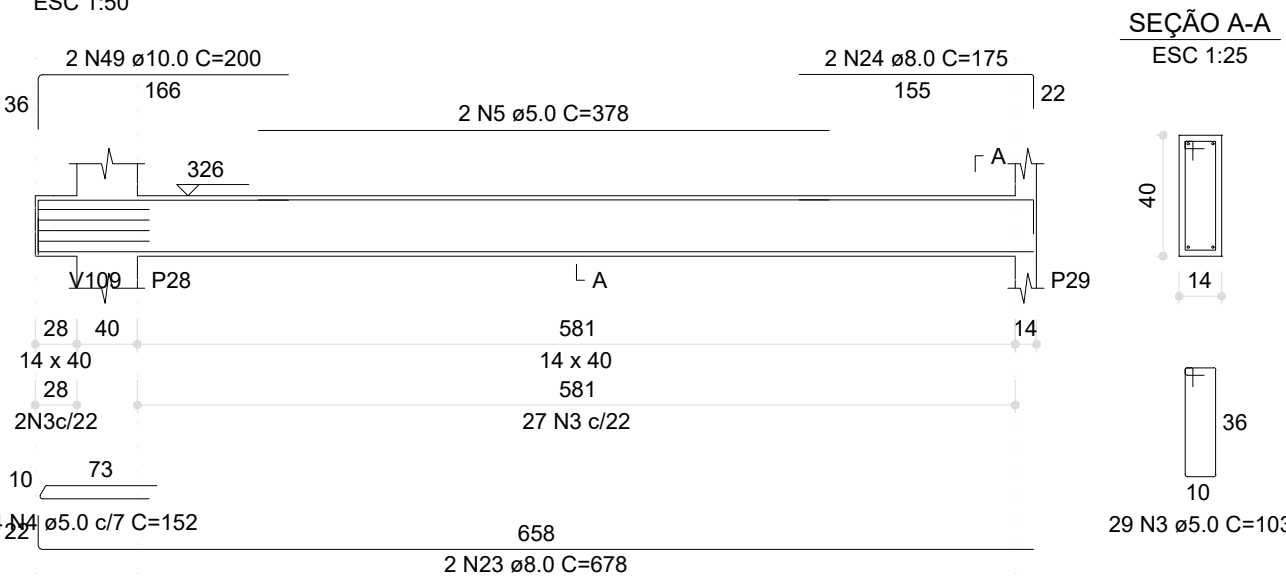
V8 (15 x 20)



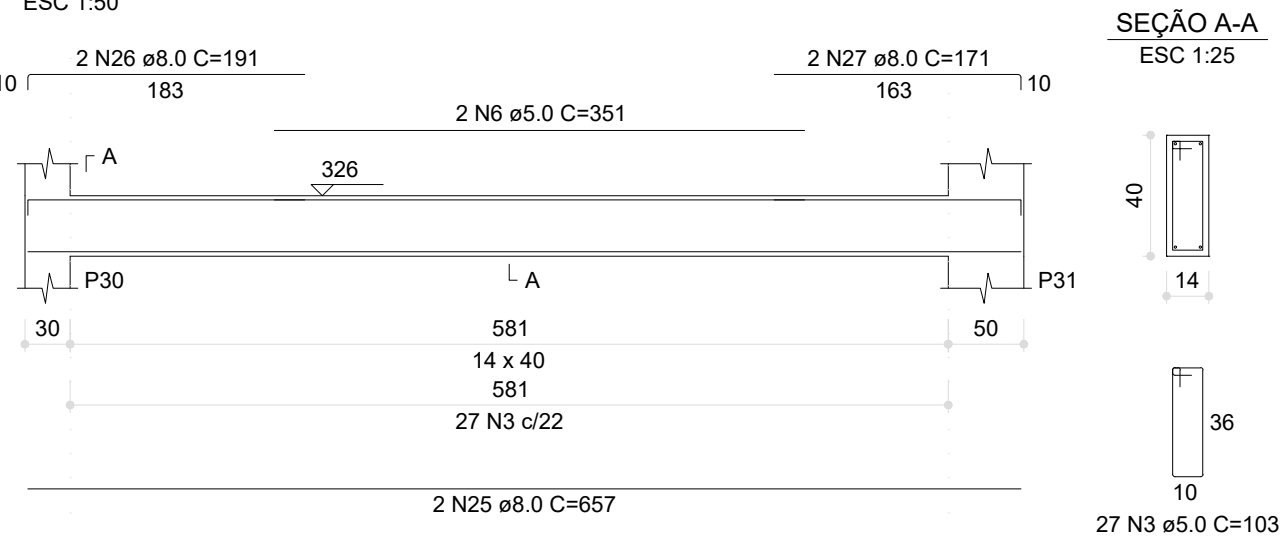
V13 (14 x 40)



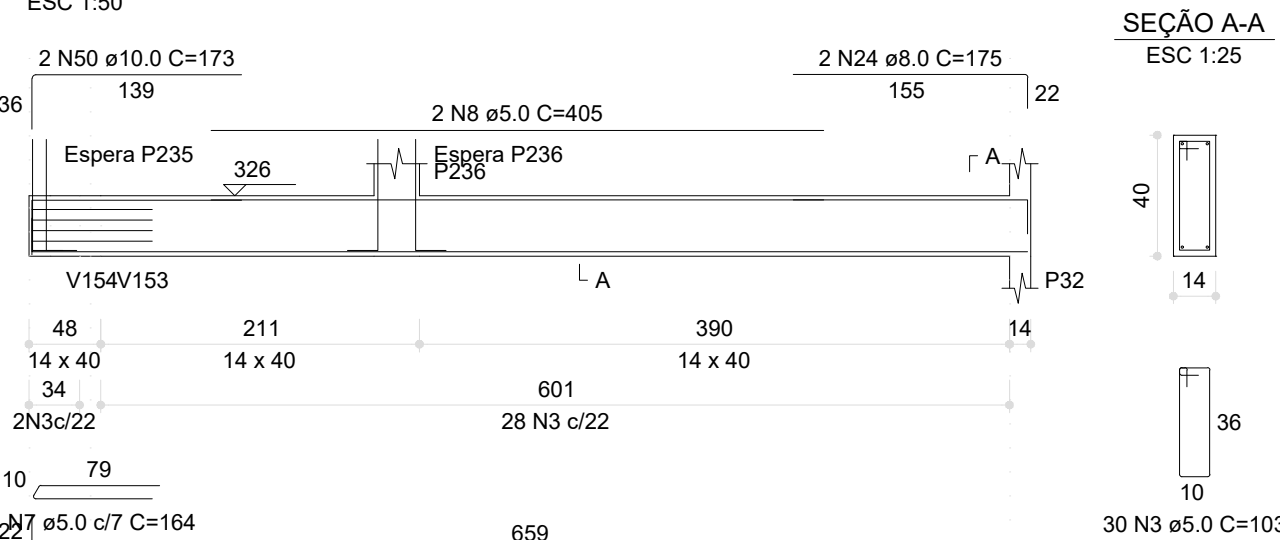
V9 (14 x 40)



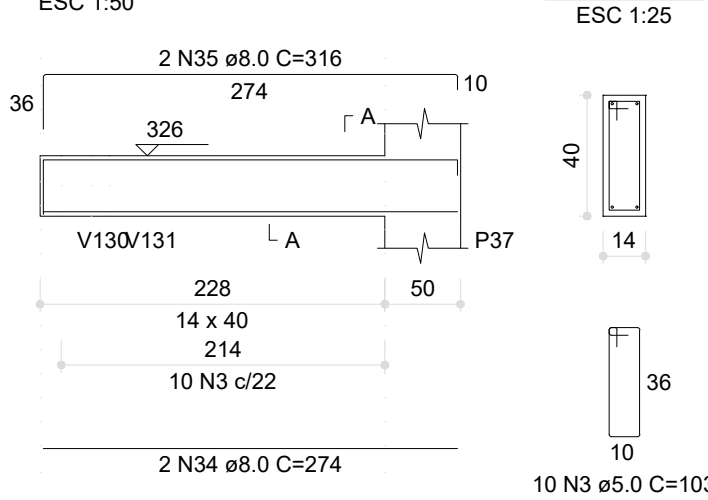
V10 (14 x 40)



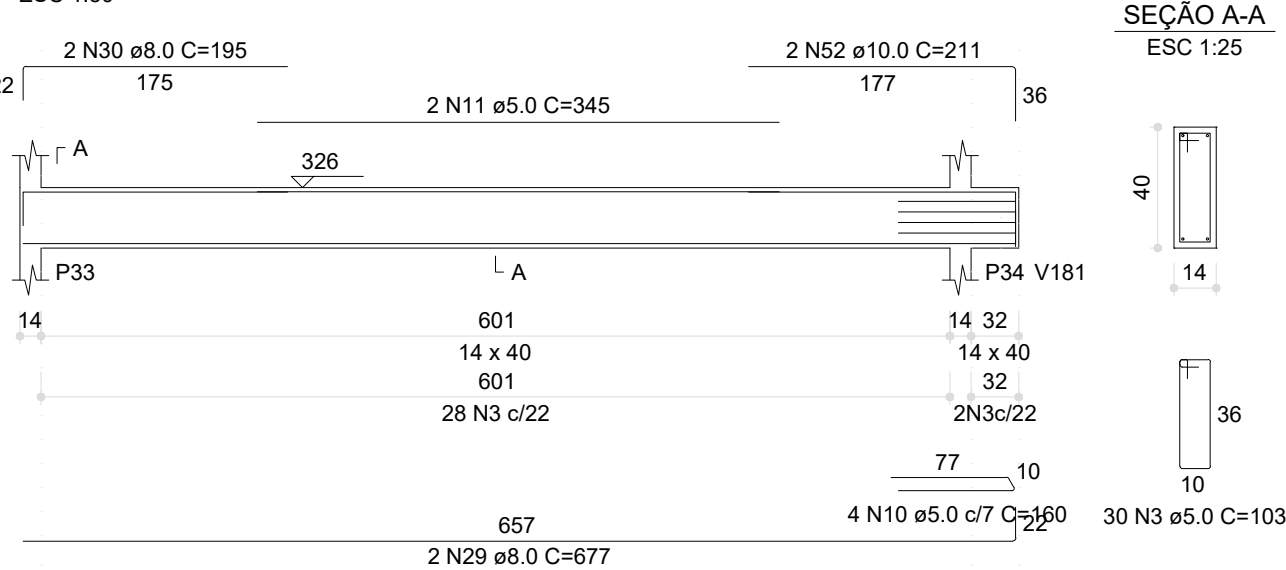
V11 (14 x 40)



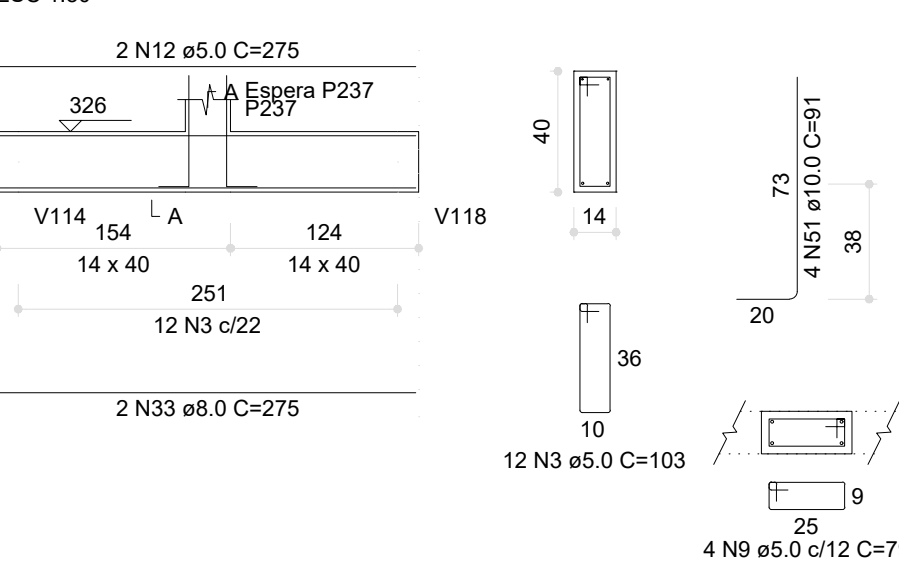
V15 (14 x 40)



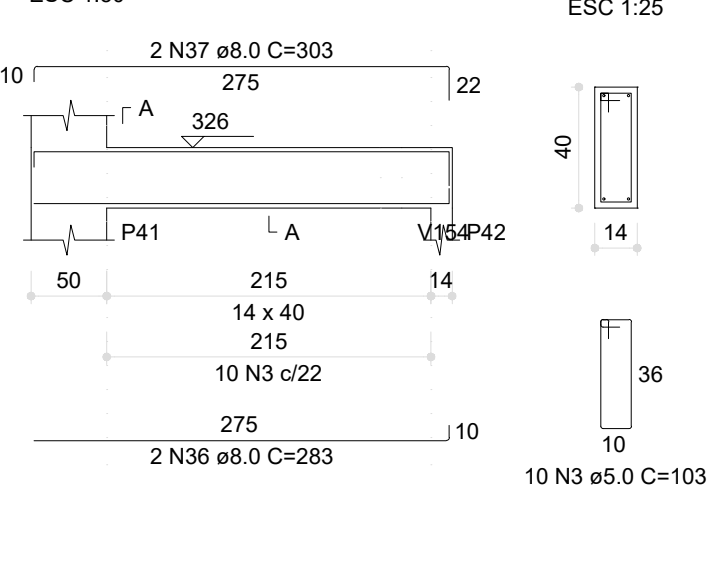
V12 (14 x 40)



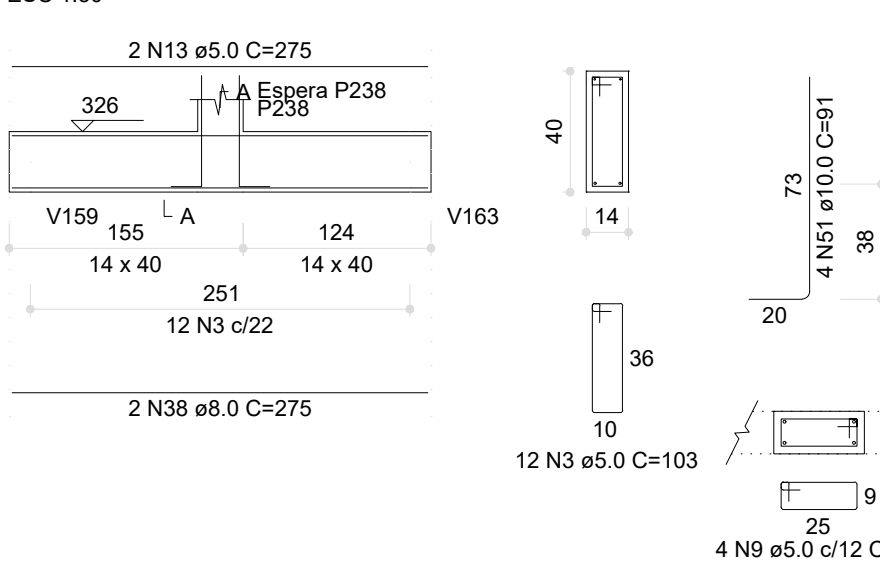
V14 (14 x 40)



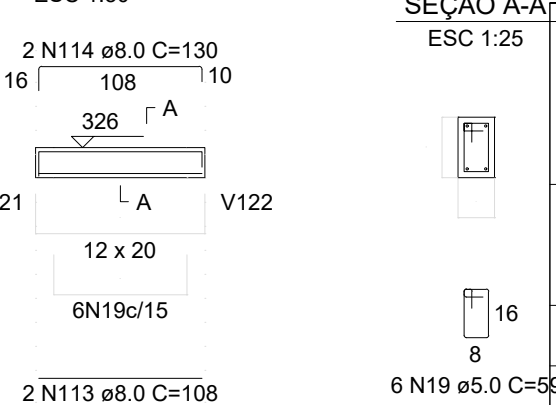
V16 (14 x 40)



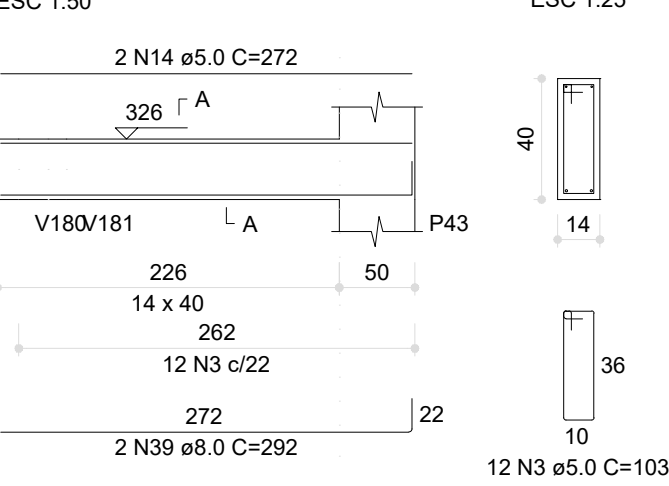
V17 (14 x 40)



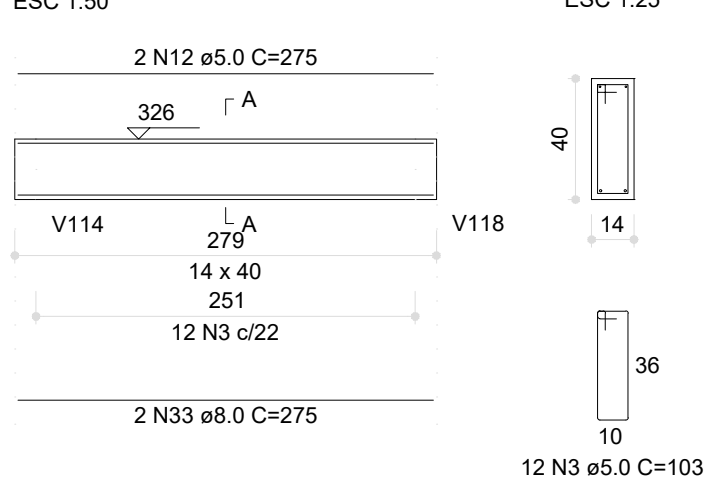
V46 (12 x 20)



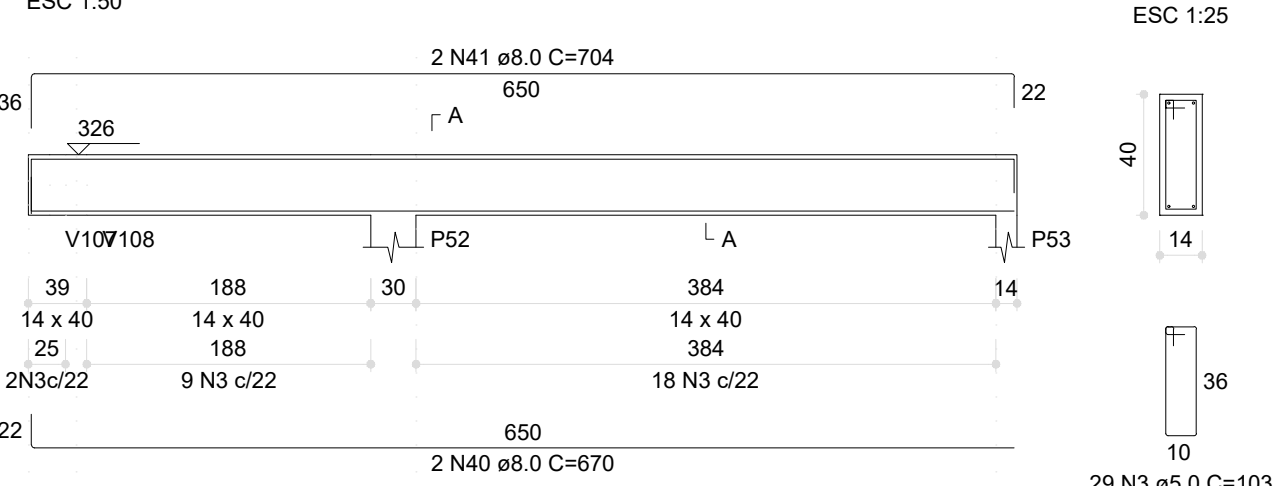
V18 (14 x 40)



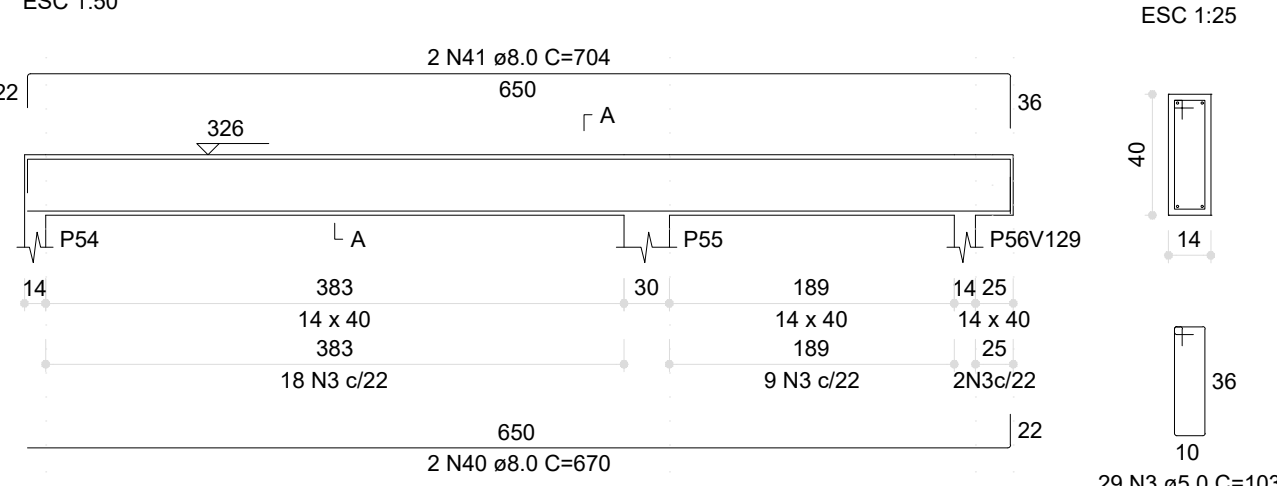
V19 (14 x 40)



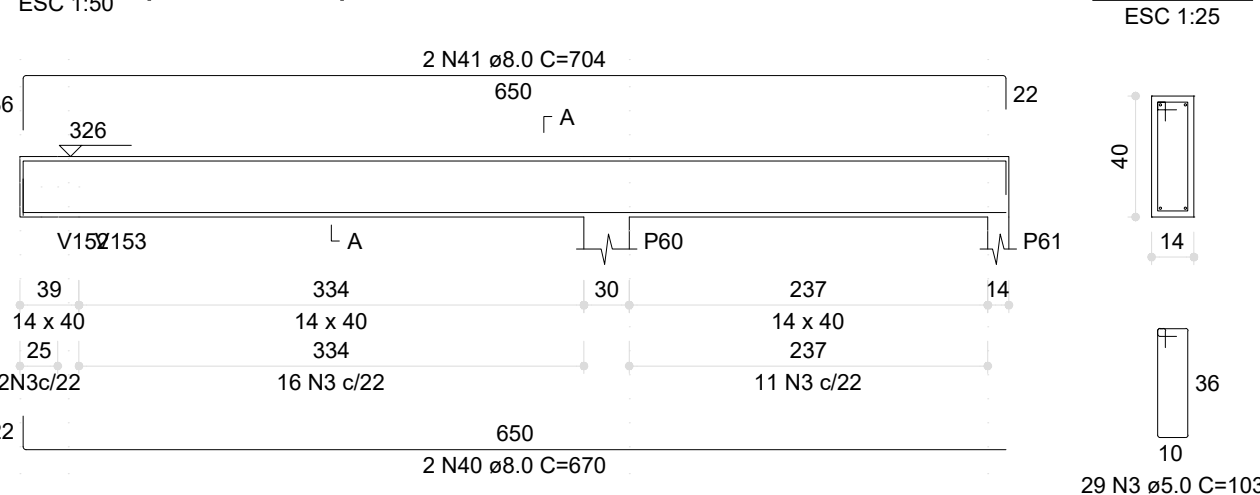
V20 (14 x 40)



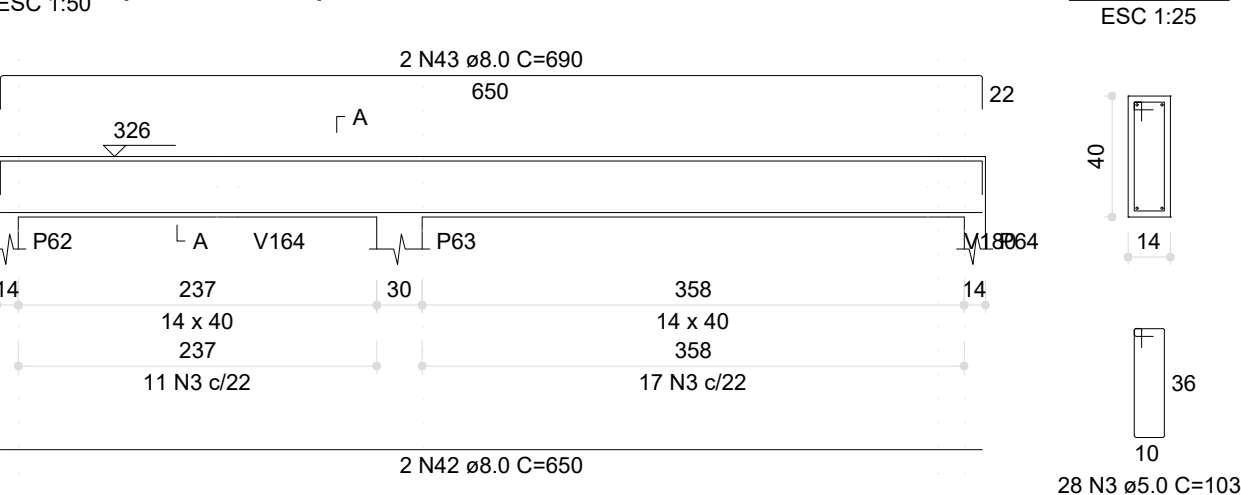
V21 (14 x 40)



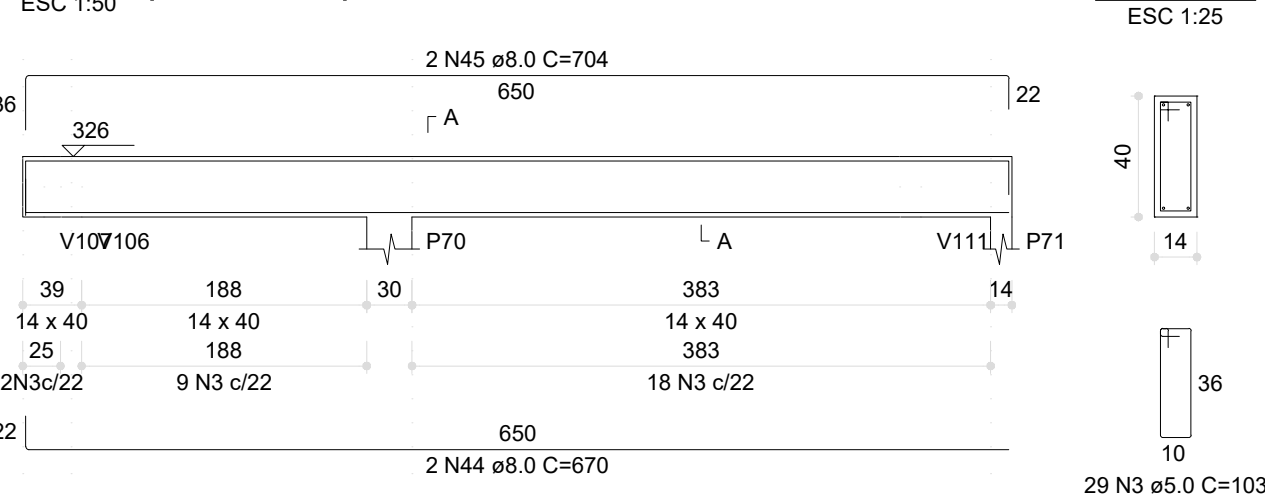
V22 (14 x 40)



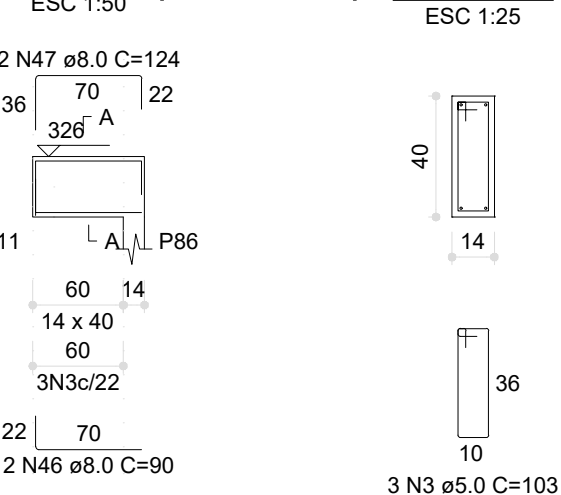
V23 (14 x 40)



V24 (14 x 40)



V28 (14 x 40)



RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)	
CA50	5.0	471.8	188.1	
CA60	5.0	26.2	16.2	
PESO TOTAL (kg)		498.0	194.3	
CA50		202.3		
CA60		95.9		

Volume de concreto (C-30) = 5.30 m³
Área de forma = 92.34 m²

03	JANEIRO/ 2023	Revisão geral da disciplina conforme a atualização da arquitetura. Redimensionamento dos elementos estruturais e acréscimo de elementos para adequação da arquitetura. Atendimento a NBR 6118/2014 e NBR 6122/2019.
02	JANEIRO/ 2017	Atendimento à NBR 9050/2015; Alteração: quadro de áreas, fechamento frontal, sanitários 1 e 2, altura da platibanda, mobiliário e equipamento, altura da cerâmica nos sanitários, cor dos portões dos solares e altura da porta PA4; Acréscimo: gradil e quadro de cargas no castelo d'água, de duchas higienicas e escaninhos pré-escola.
01	JULHO/ 2016	Alteração paredes - shaft para tubulação hidráulica e detalhamento; alteração da altura da platibanda.
Nº	DATA	DESCRIÇÃO
CONTROLE DE REVISÕES		

FNDE MINISTÉRIO DA EDUCAÇÃO

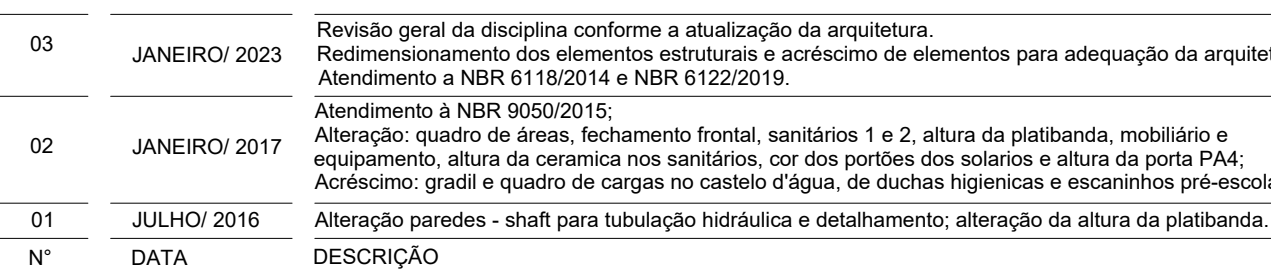
PROJETO PADRÃO - FNDE

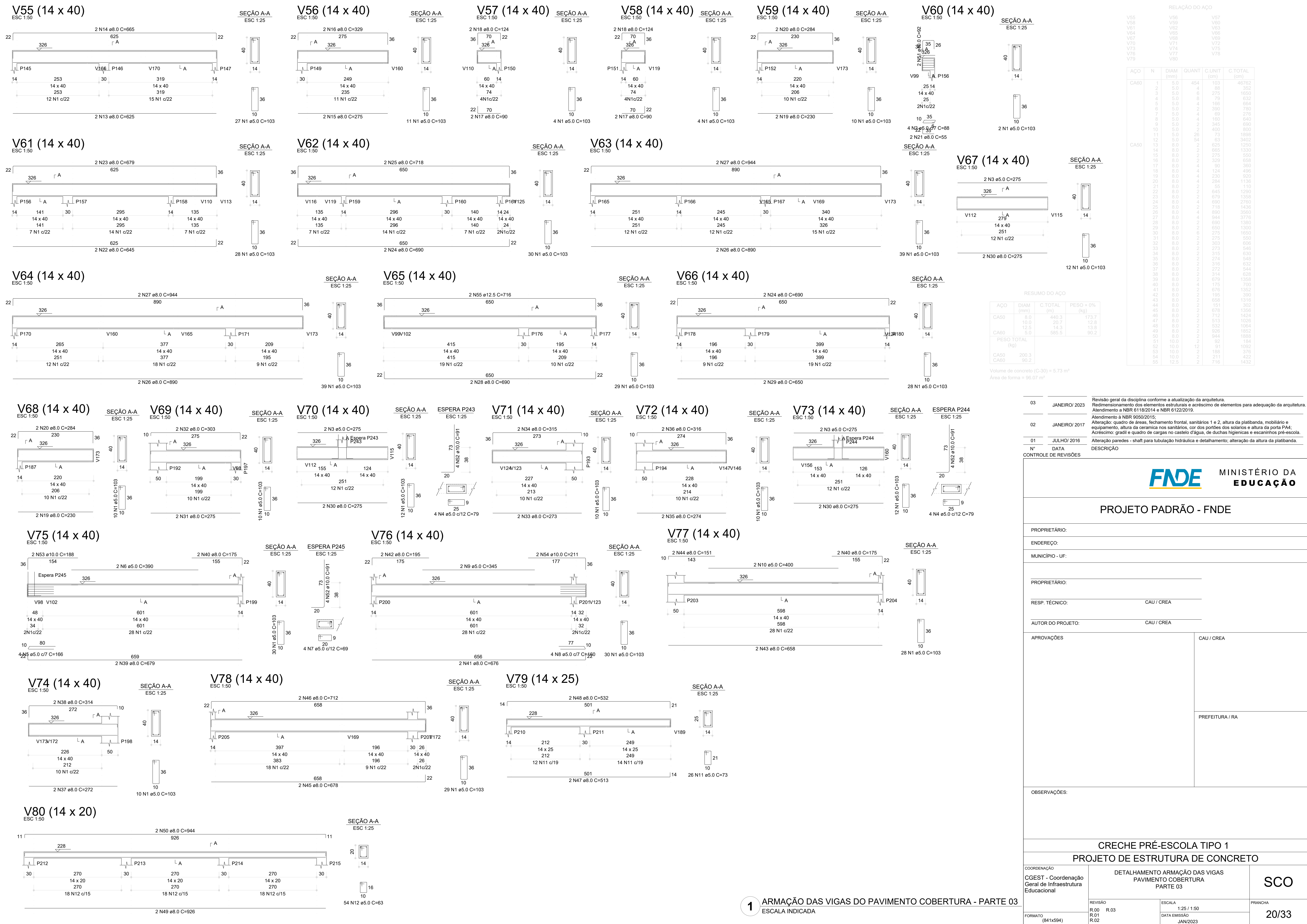
PROPRIETÁRIO:	
ENDEREÇO:	
MUNICÍPIO - UF:	
PROPRIETÁRIO:	
RESP. TÉCNICO:	CAU / CREA
AUTOR DO PROJETO:	CAU / CREA

APROVAÇÕES	CAU / CREA
PREFEITURA / RA	

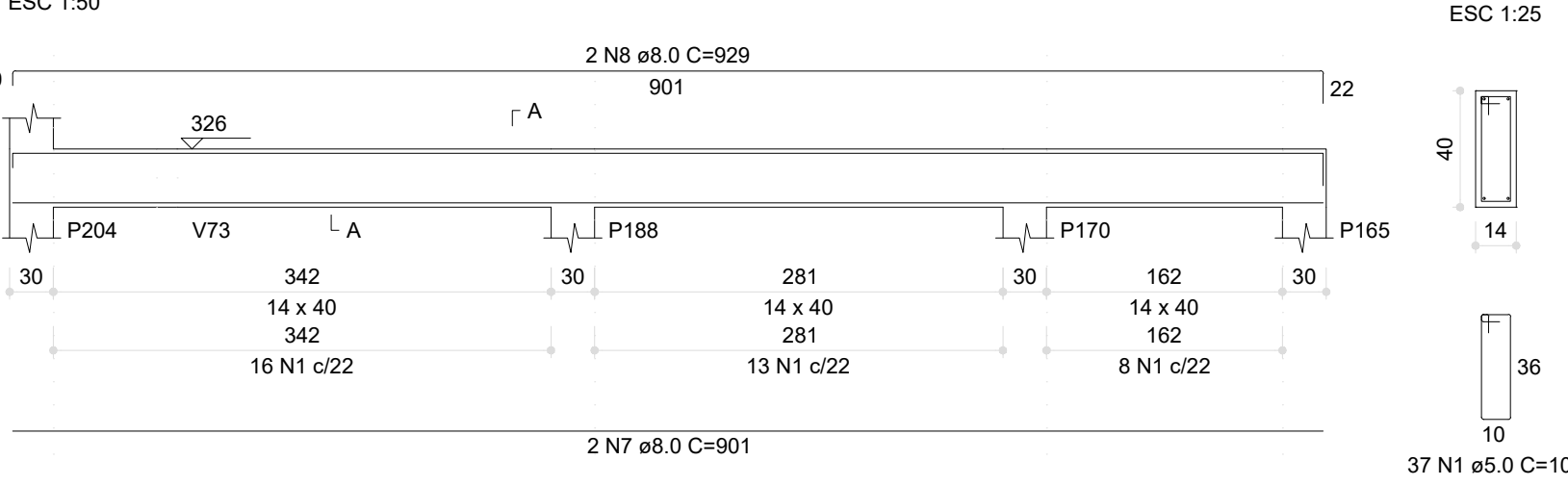
CRECHE PRÉ-ESCOLA TIPO 1 PROJETO DE ESTRUTURA DE CONCRETO

COORDENAÇÃO CGEST - Coordenação Geral de Infraestrutura Educacional	DETALHAMENTO ARMAÇÃO DAS VIGAS PAVIMENTO COBERTURA PARTE 01	SCO
REVISÃO R.00 R.03 R.01 R.02	ESCALA 1:25 / 1:50 DATA EMISSÃO JAN/2023	FRANCHA 18/33
FORMATO (841x594)		

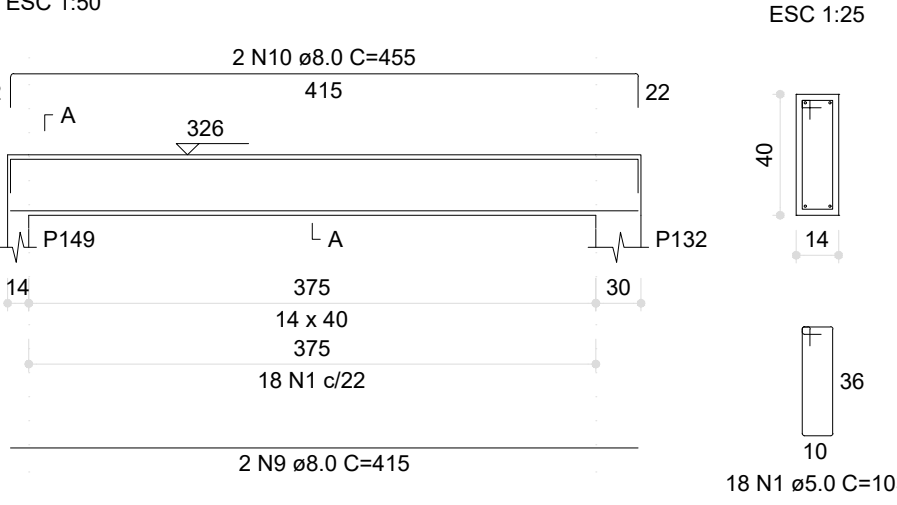




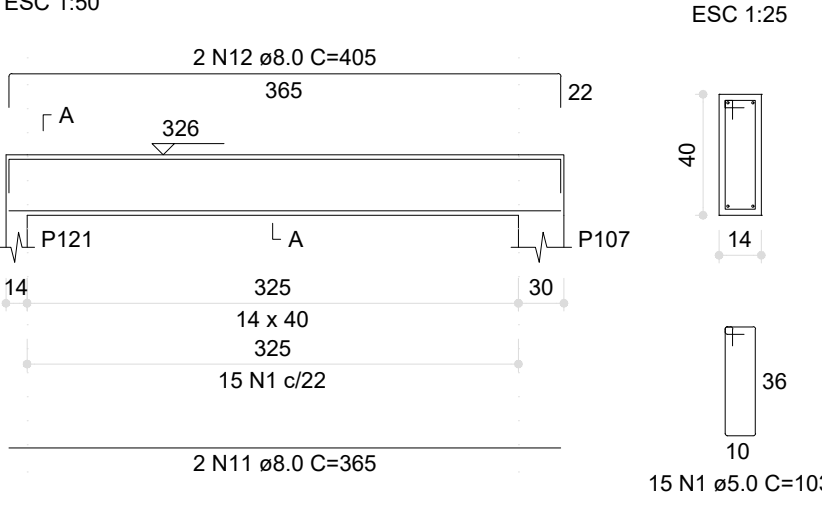
V156 (14 x 40)



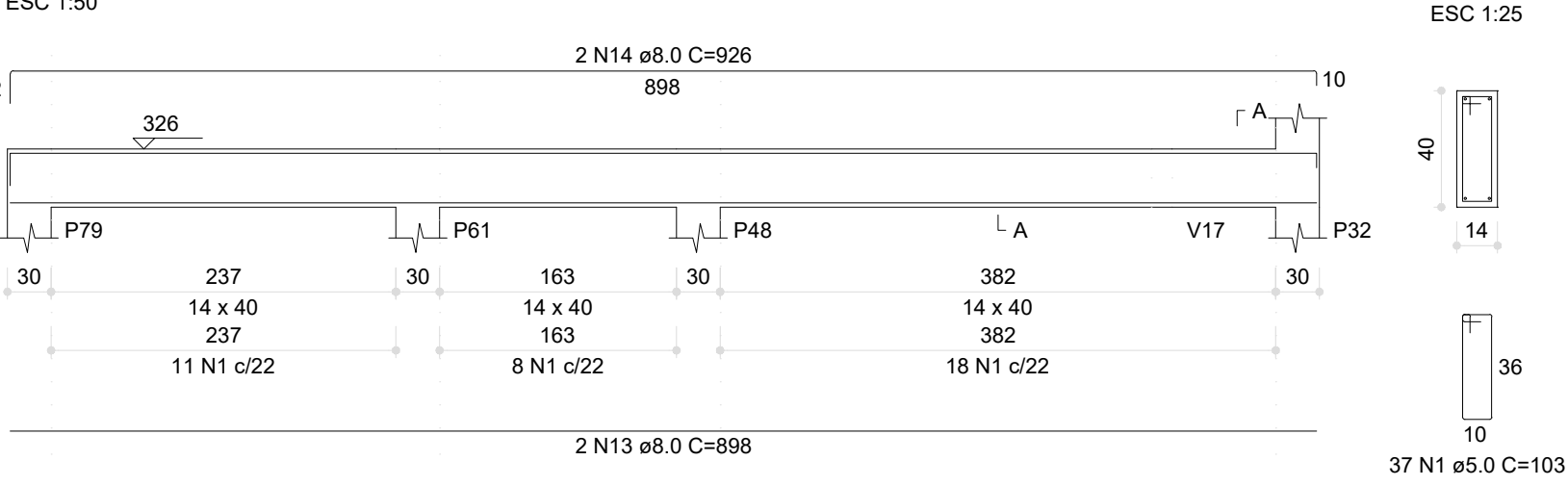
V157 (14 x 40)



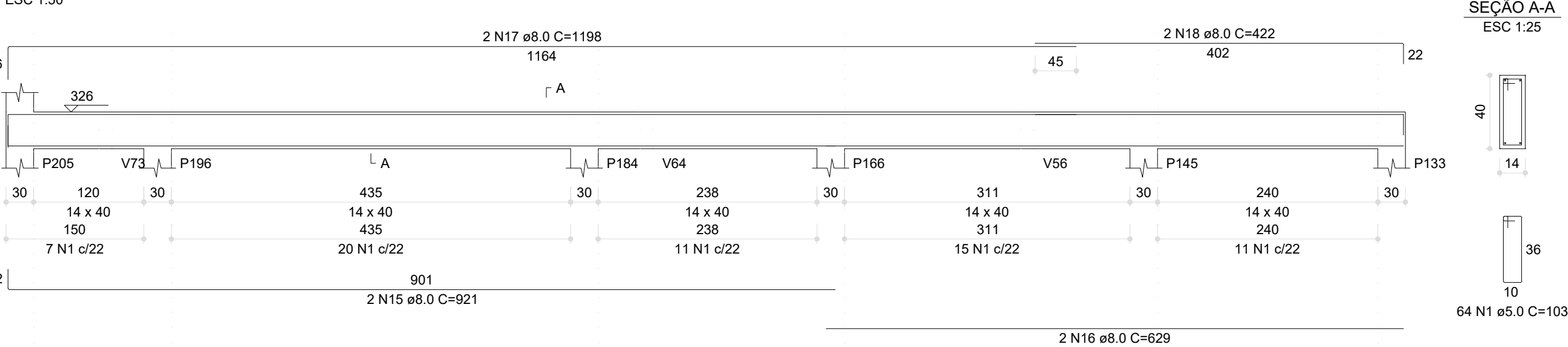
V158 (14 x 40)



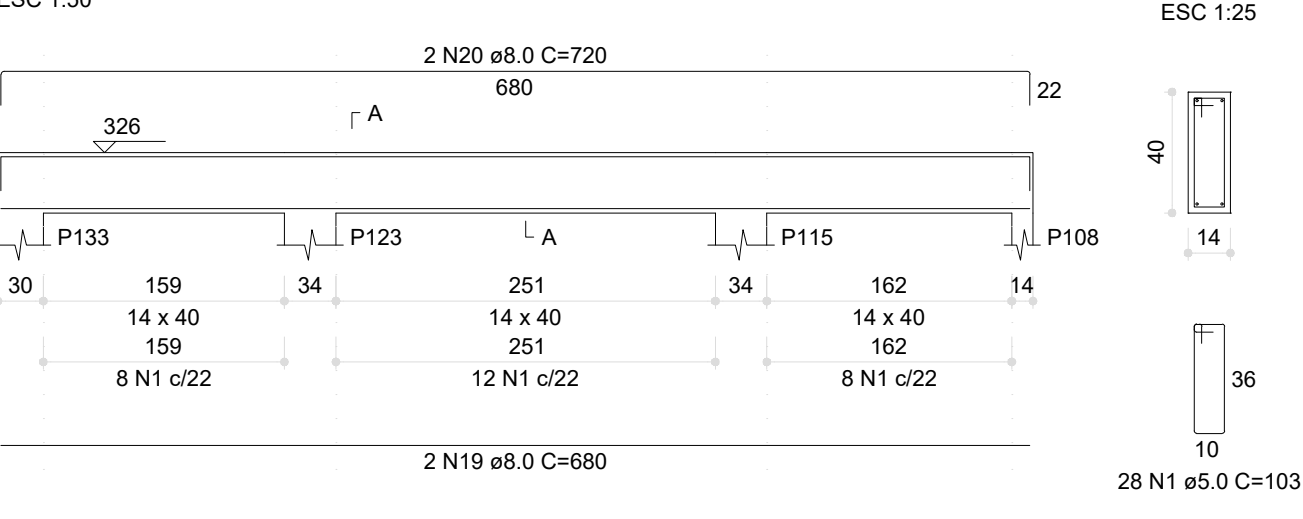
V159 (14 x 40)



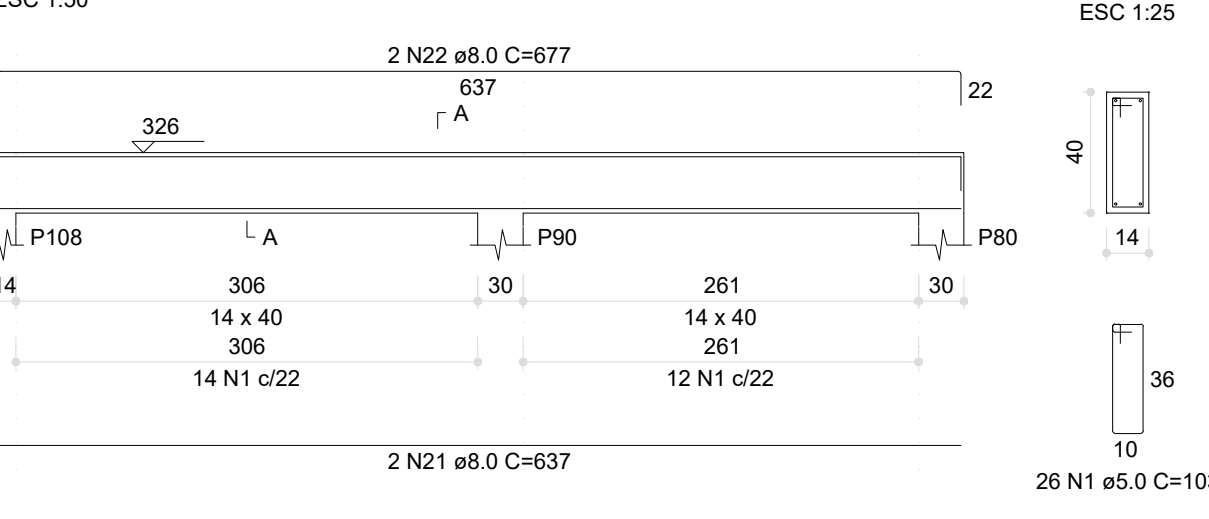
V160 (14 x 40)



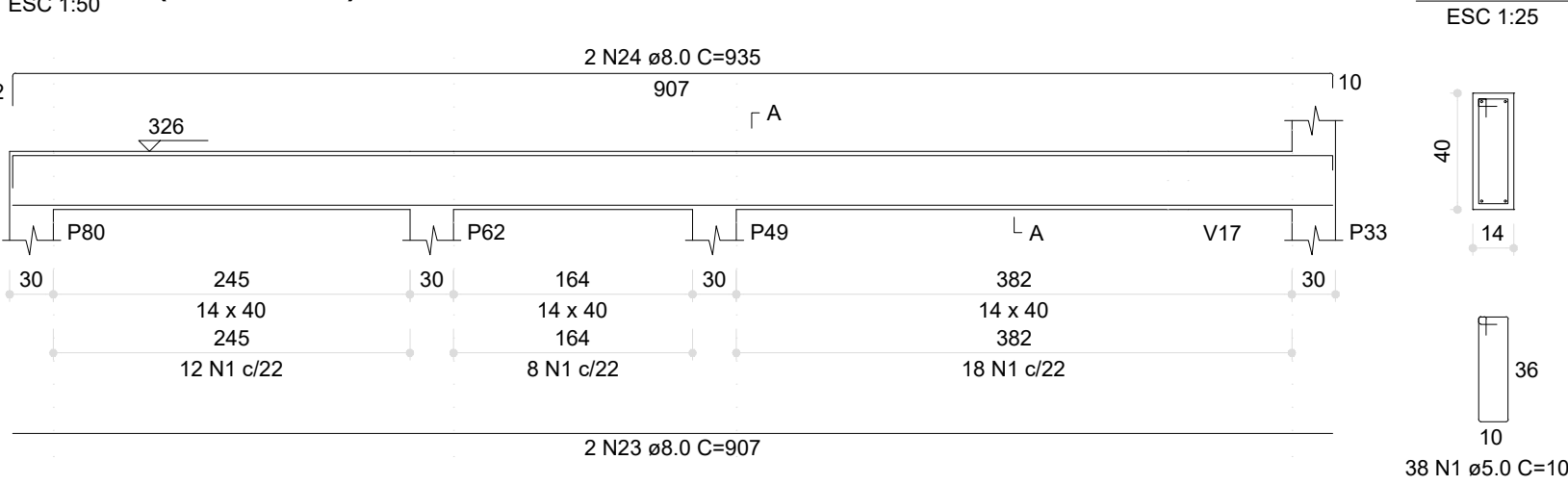
V161 (14 x 40)



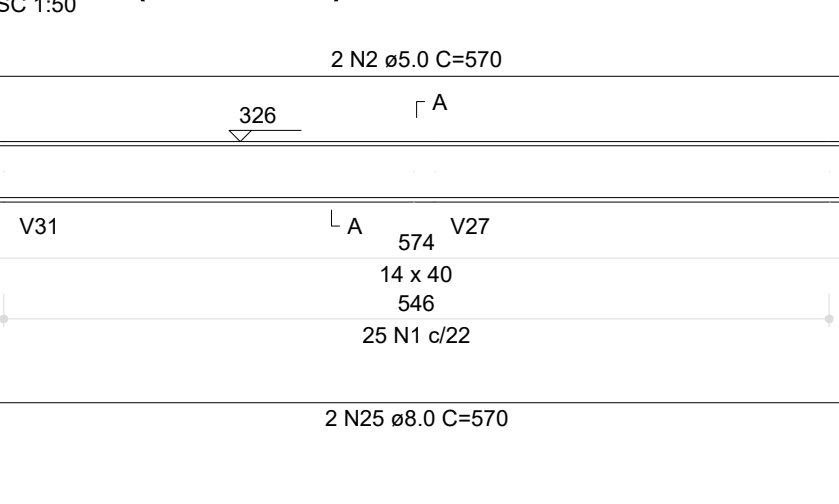
V162 (14 x 40)



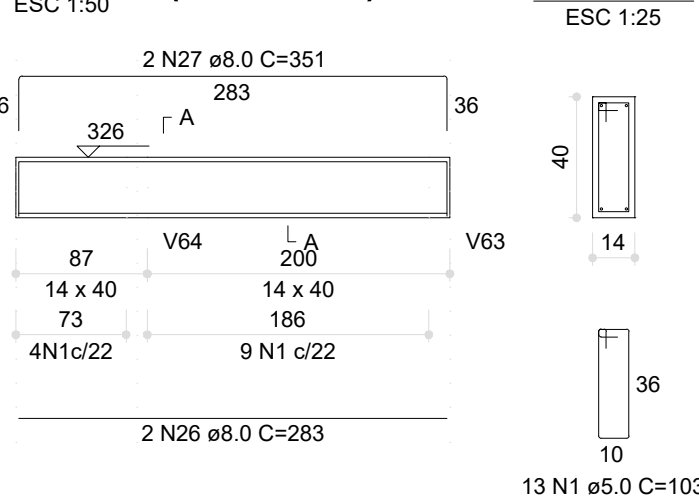
V163 (14 x 40)



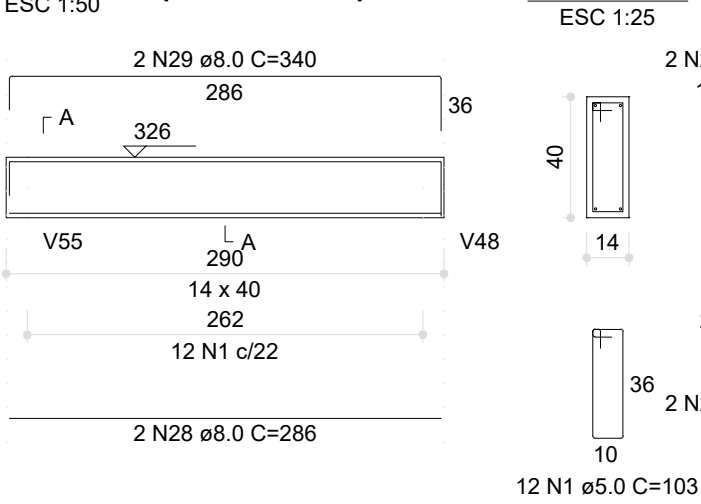
V164 (14 x 40)



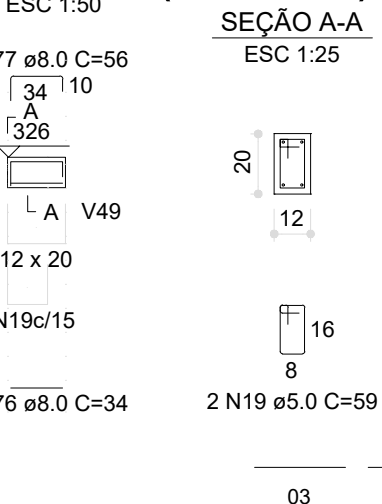
V165 (14 x 40)



V166 (14 x 40)



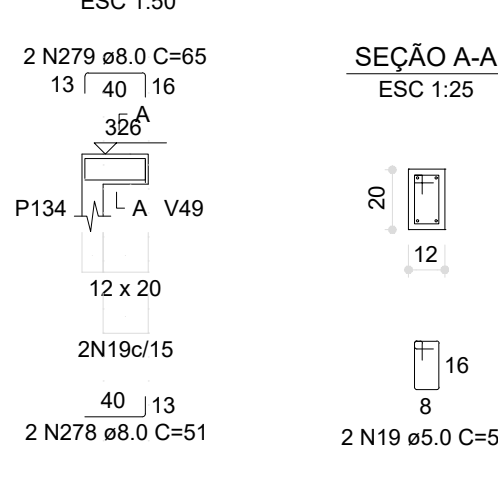
V167 (12 x 20)



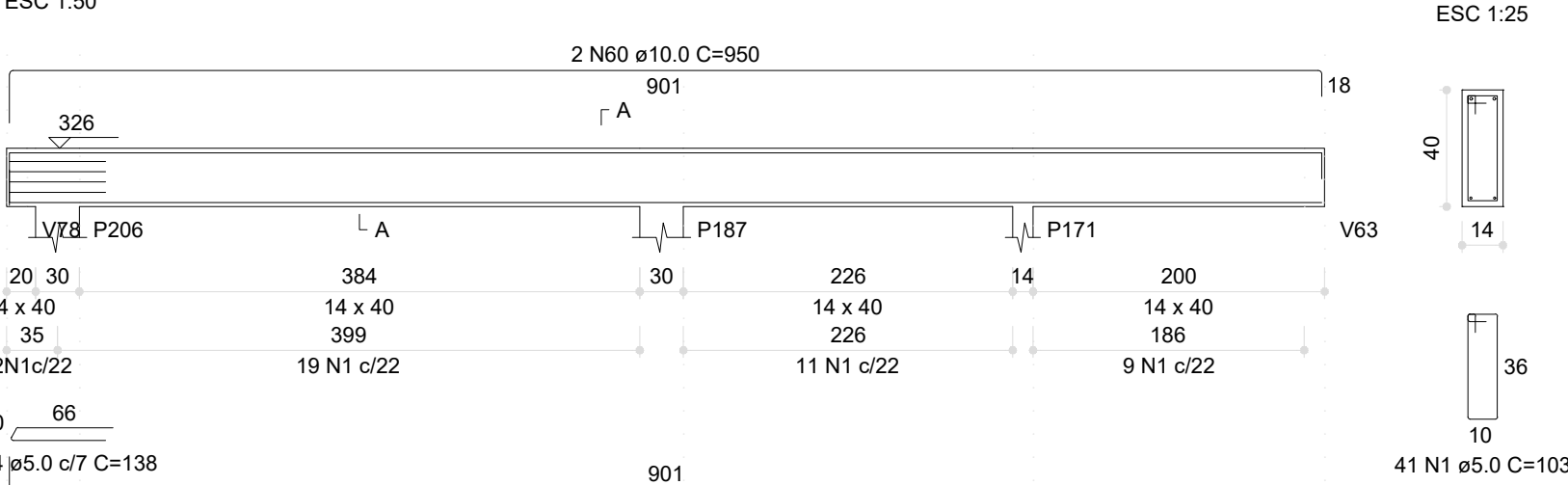
RESUMO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
CA68	1	5.0	523	103	53889
	2	5.0	2	570	1140
	3	5.0	4	79	316
	4	5.0	4	138	552
	5	5.0	20	99	1980
CA50	6	5.0	2	376	752
	7	8.0	901	1602	144182
	8	8.0	929	1658	153852
	9	8.0	415	830	34335
	10	8.0	455	910	41395
	11	8.0	365	730	26655
	12	8.0	405	810	32805
	13	8.0	898	1796	160388
	14	8.0	926	1852	171432
	15	8.0	821	1642	134822
	16	8.0	623	1258	78254
	17	8.0	1198	2396	286888
	18	8.0	422	844	35628
	19	8.0	590	1190	69810
	20	8.0	729	1460	106314
	21	8.0	637	1274	81158
	22	8.0	677	1354	91658
	23	8.0	907	1814	164518
	24	8.0	935	1870	174530
	25	8.0	570	1140	64980
	26	8.0	293	586	17158
	27	8.0	351	702	24630
	28	8.0	286	572	16372
	29	8.0	340	680	23120
	30	8.0	34	68	2312
	31	8.0	70	140	9800
	32	8.0	57	114	6498
	33	8.0	81	162	13122
	34	8.0	921	1842	169518
	35	8.0	209	418	87362
	36	8.0	263	526	138118
	37	8.0	685	1370	93890
	38	8.0	733	1466	107418
	39	8.0	113	226	25538
	40	8.0	164	328	53792
	41	8.0	924	1848	170352
	42	8.0	339	678	230142
	43	8.0	1153	2306	265818
	44	8.0	185	370	68450
	45	8.0	294	588	172752
	46	8.0	334	668	223112
	47	8.0	136	272	37072
	48	8.0	189	378	71442
	49	8.0	653	1306	852518
	50	8.0	175	350	61250
	51	8.0	180	360	64800
	52	8.0	631	1262	796512
	53	8.0	699	1398	976122
	54	8.0	169	338	57002
	55	8.0	185	370	68450
	56	8.0	285	570	162150
	57	8.0	325	650	211250
	58	8.0	127	254	32258
	59	8.0	181	362	65512
	60	10.0	950	1900	180500

Volume de concreto (C-30) = 6.43 m³
Área de forma = 108.50 m²

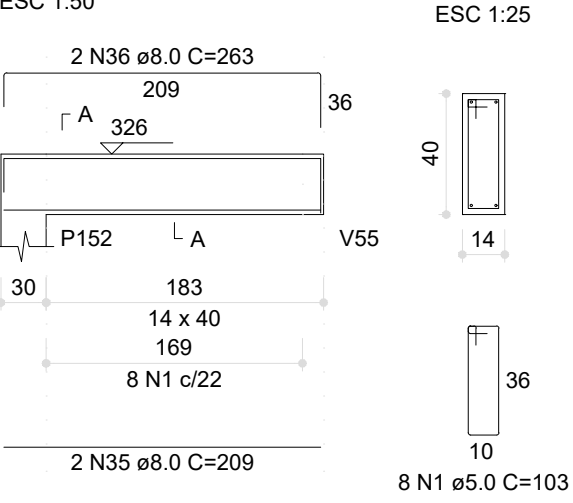
V168 (12 x 20)



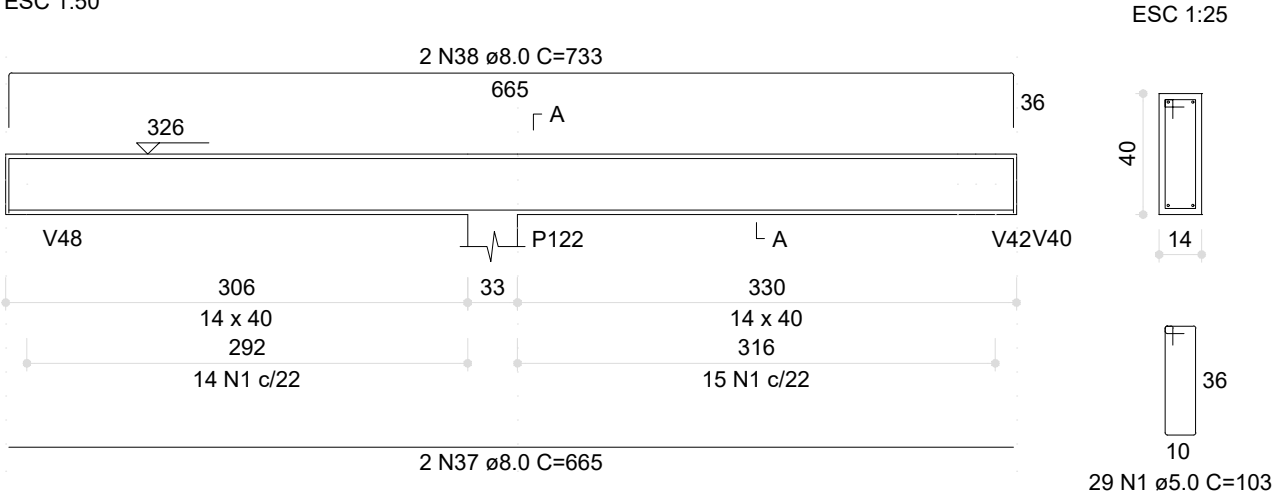
V169 (14 x 40)



V170 (14 x 40)

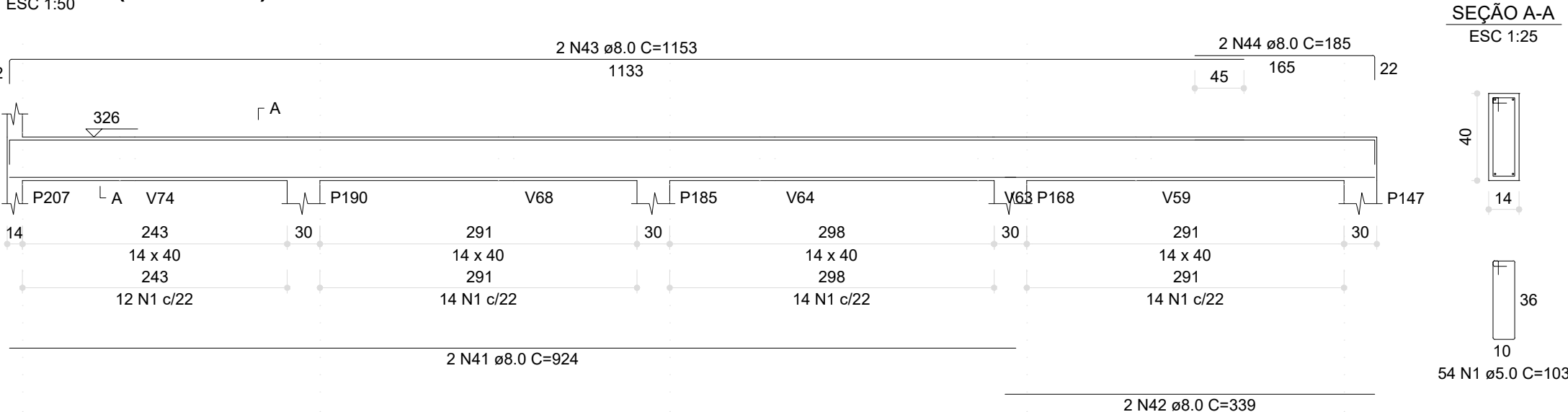


V171 (14 x 40)

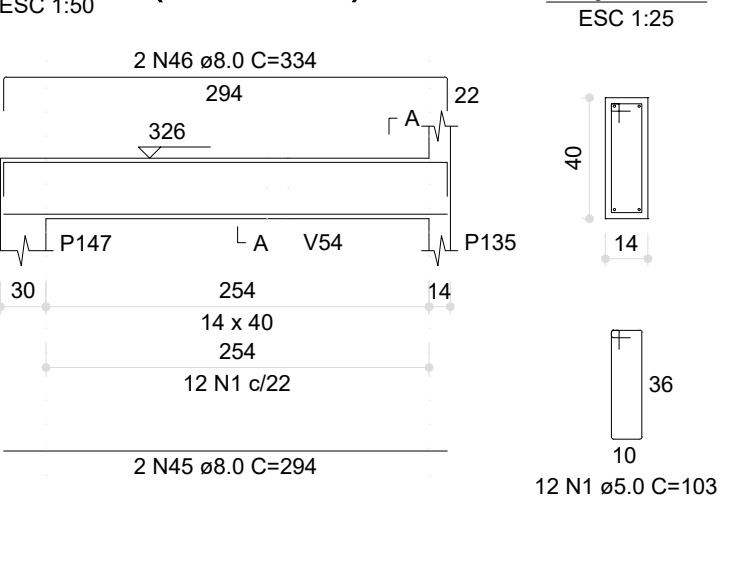


RELAÇÃO DO AÇO					
V156	V157	V158	V159	V160	V161
V162	V163	V164	V165	V166	V167
V168	V169	V170	V171	V172	V173
V174	V175	V176	V177	V178	V179
V180	V181	V182	V183	V184	V185

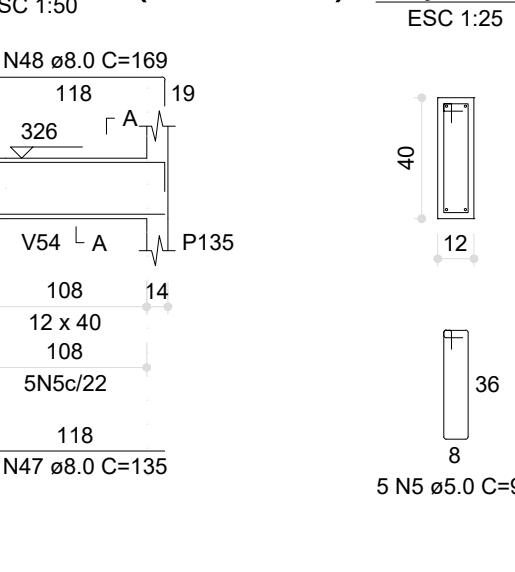
V173 (14 x 40)



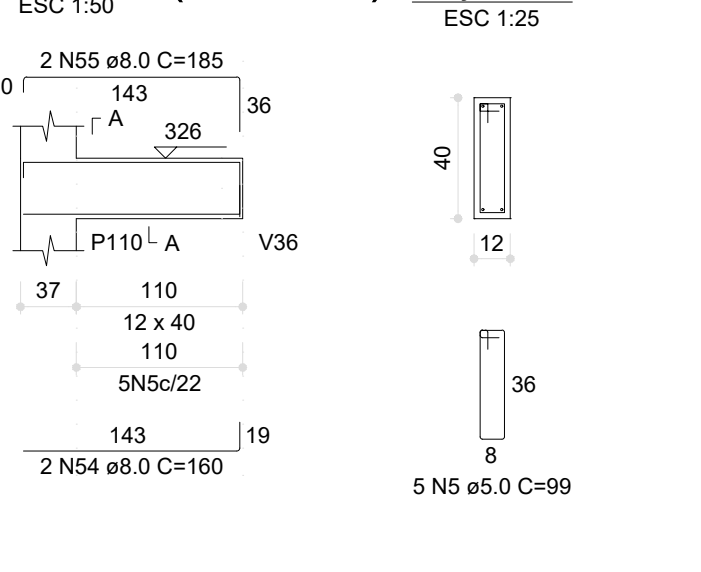
V174 (14 x 40)



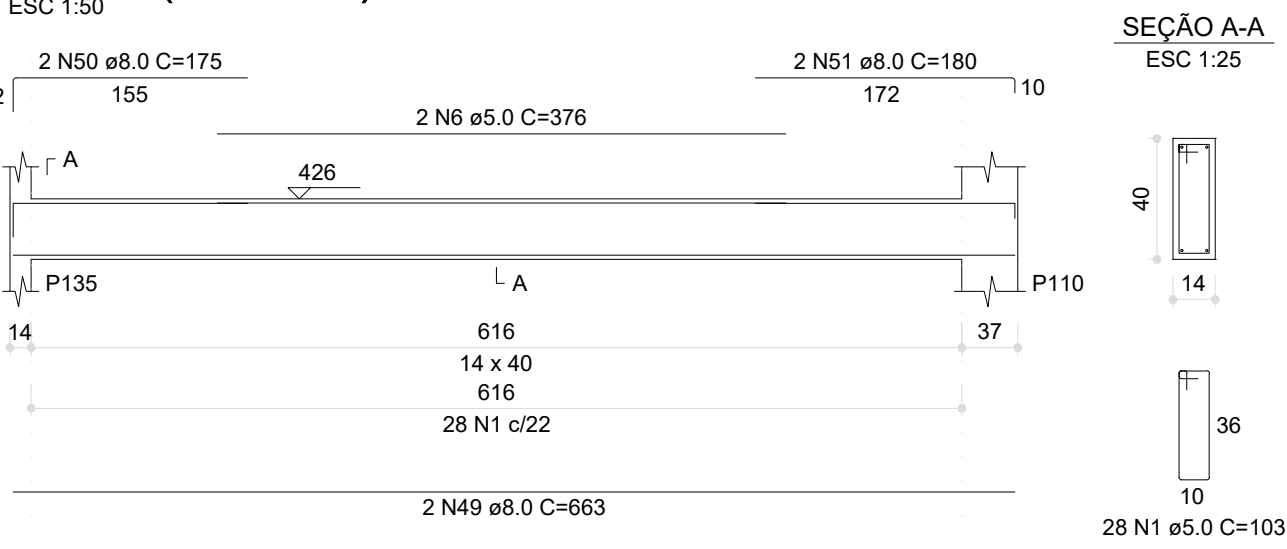
V175 (12 x 40)



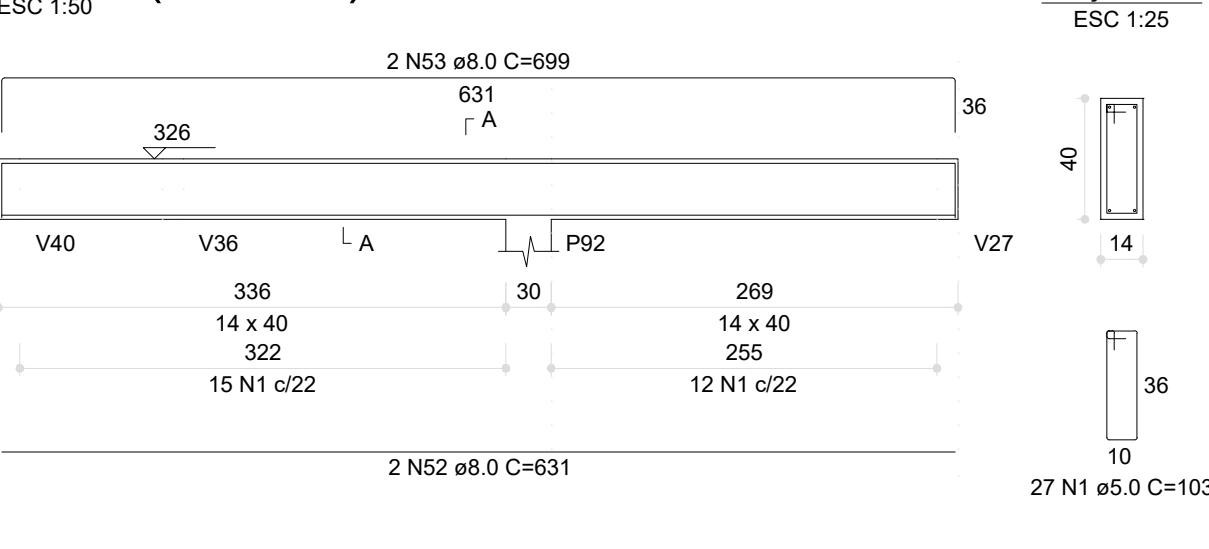
V178 (12 x 40)



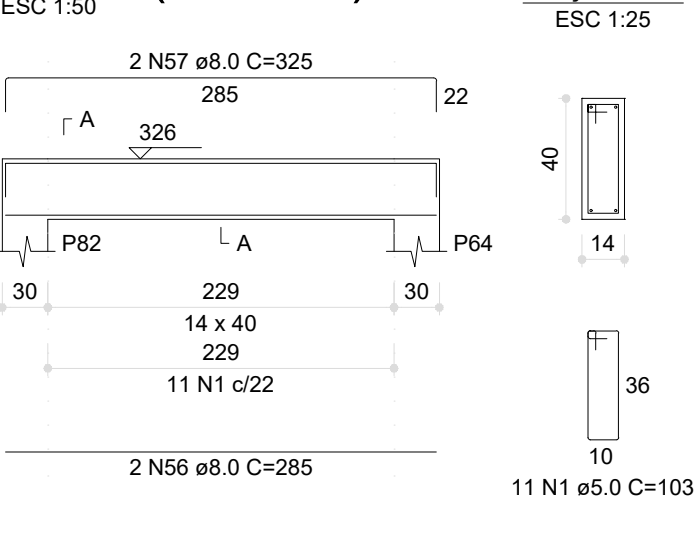
V176 (14 x 40)



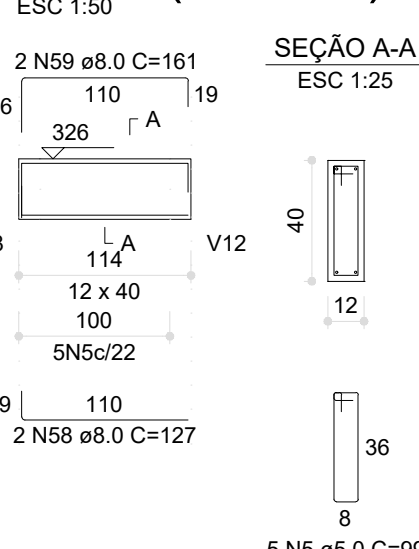
V177 (14 x 40)



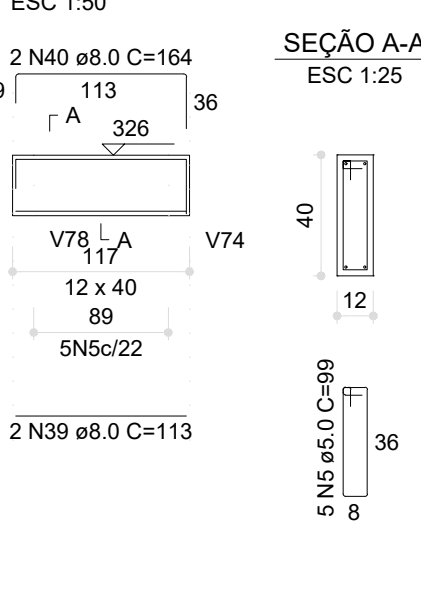
V179 (14 x 40)



V181 (12 x 40)



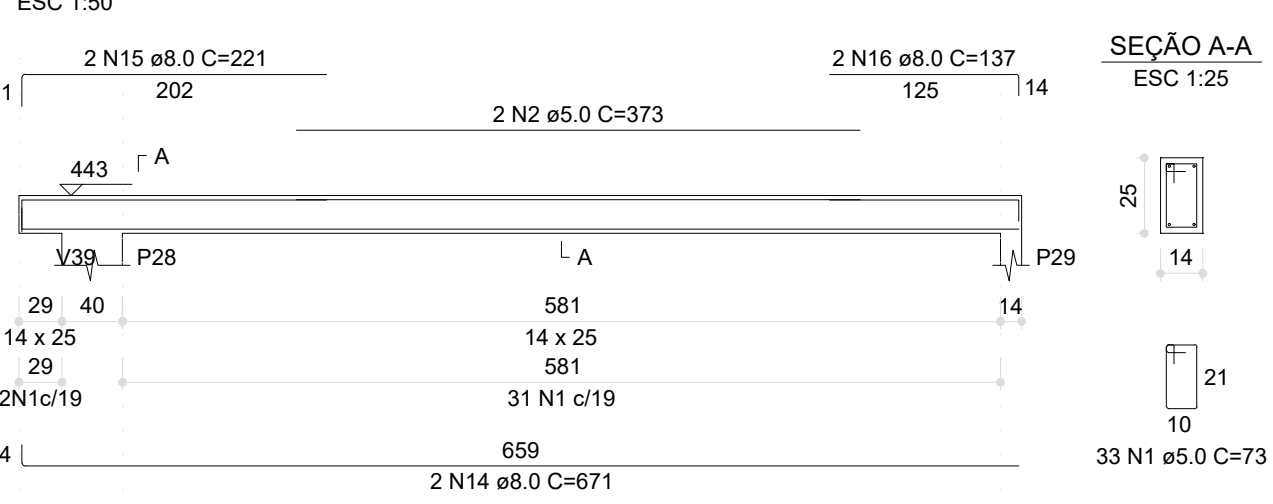
V172 (12 x 40)



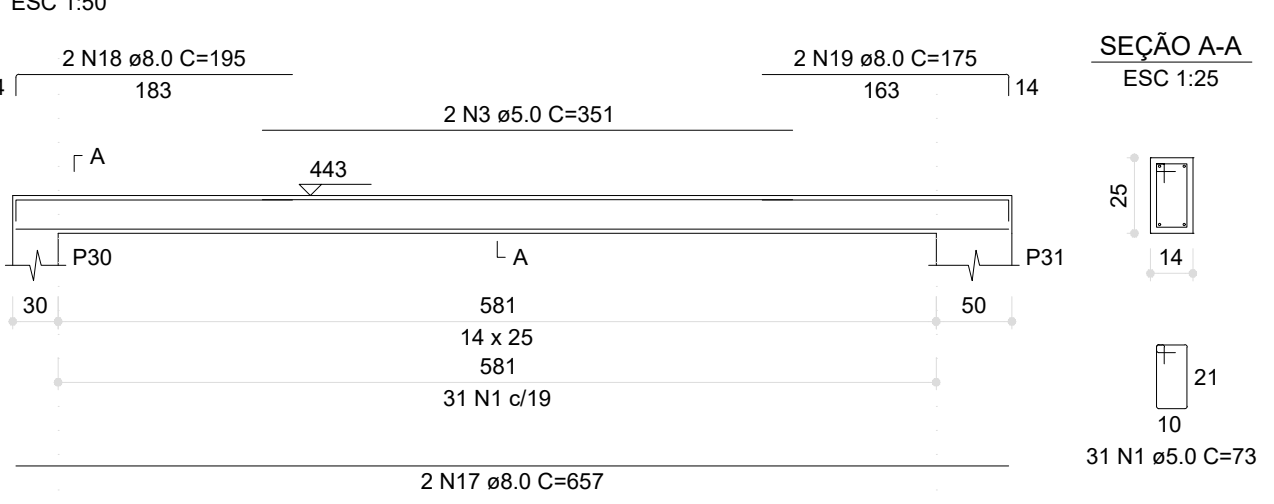
CRECHE PRÉ-ESCOLA TIPO 1
PROJETO DE ESTRUTURA DE CONCRETO

COORDENAÇÃO CGEST - Coordenação Geral de Infraestrutura Educativa	DETALHAMENTO ARMAÇÃO DAS VIGAS PAVIMENTO COBERTURA PARTE 07	SC0
REVISÃO R.00 R.03 R.01 R.02	ESCALA 1:25 / 1:50 DATA EMISSÃO JAN/2023	PRANCHAS 24/33
FORMATO (841x594)		

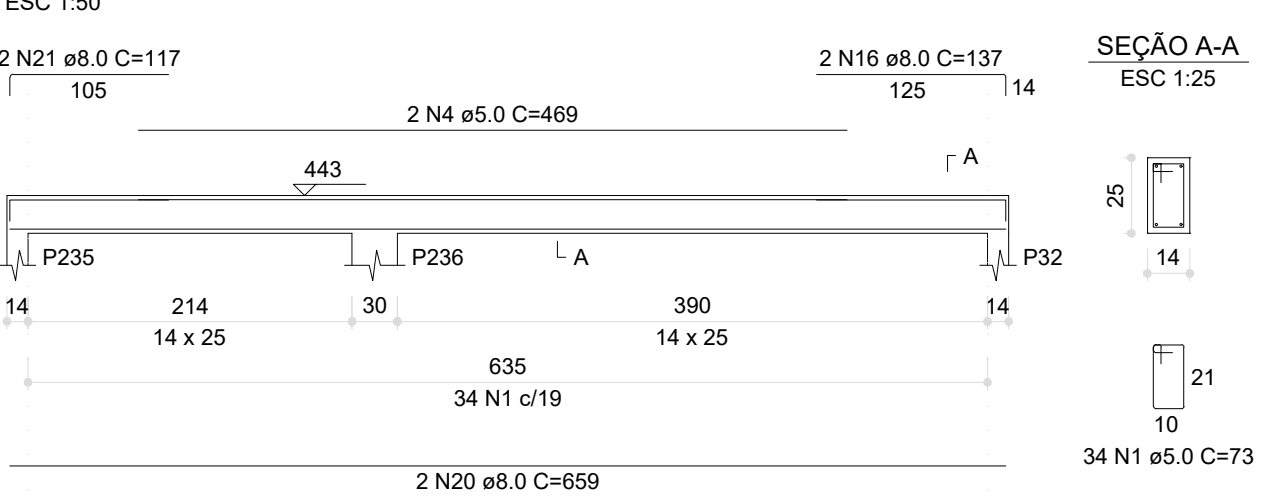
V1 (14 x 25)



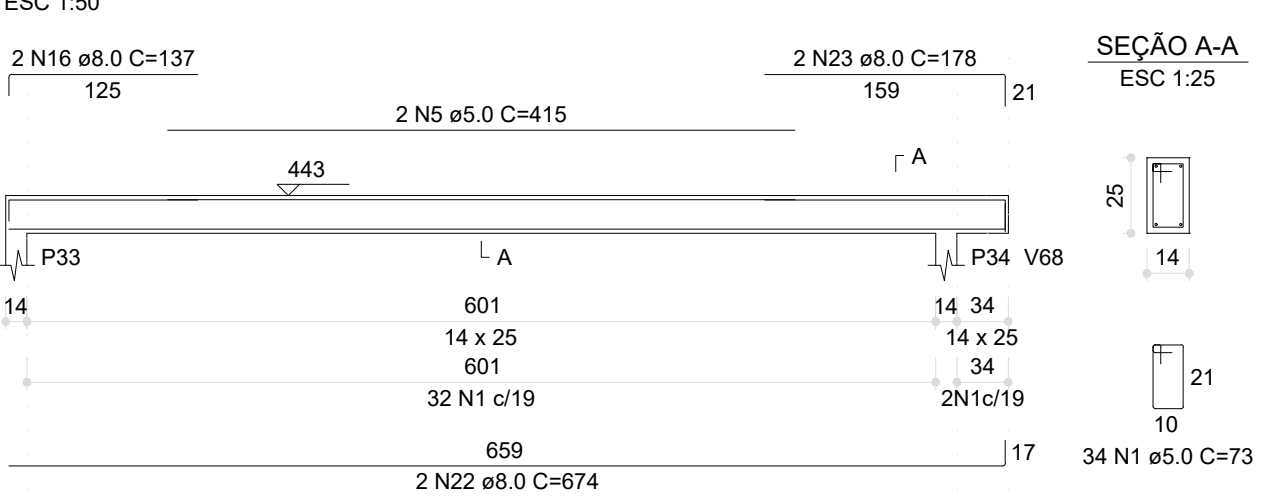
V2 (14 x 25)



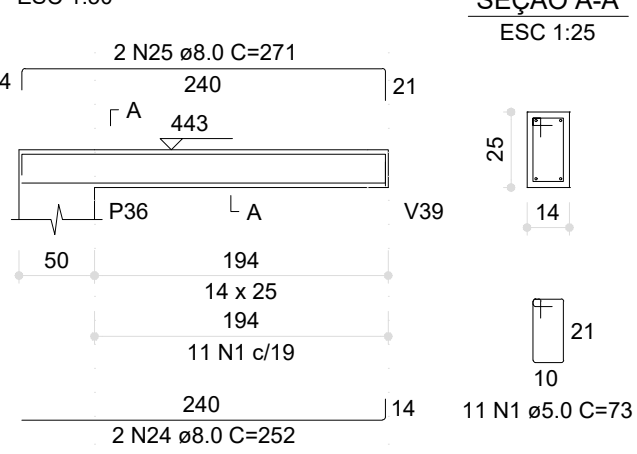
V3 (14 x 25)



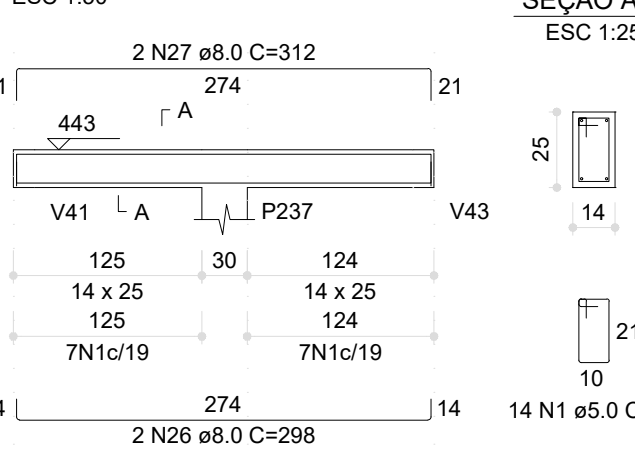
V4 (14 x 25)



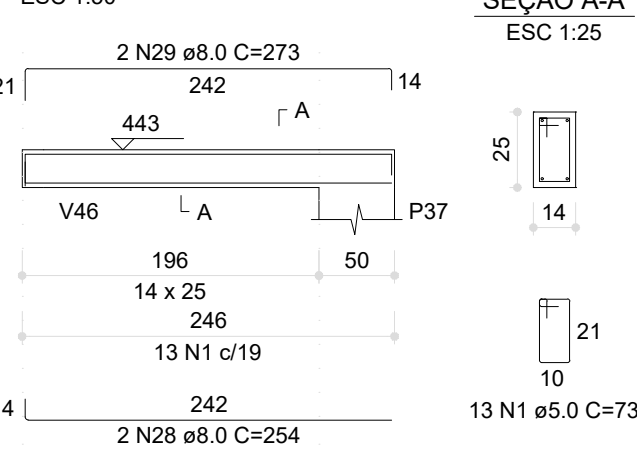
V5 (14 x 25)



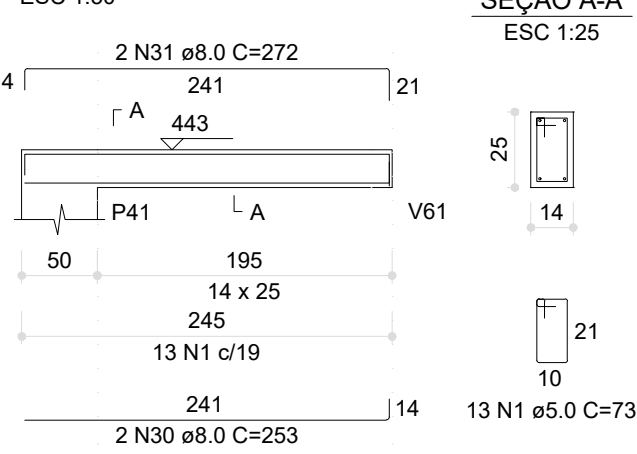
V6 (14 x 25)



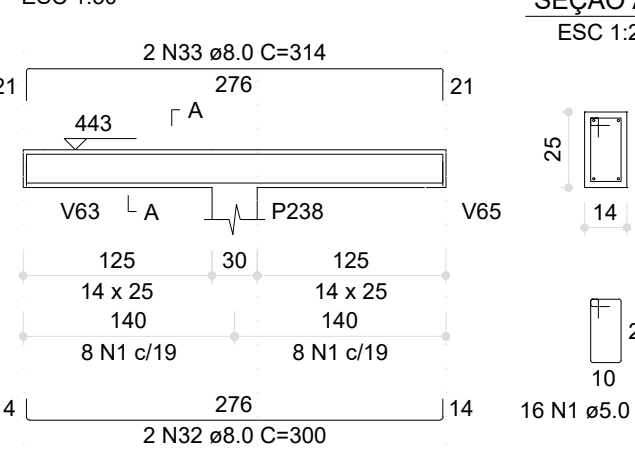
V7 (14 x 25)



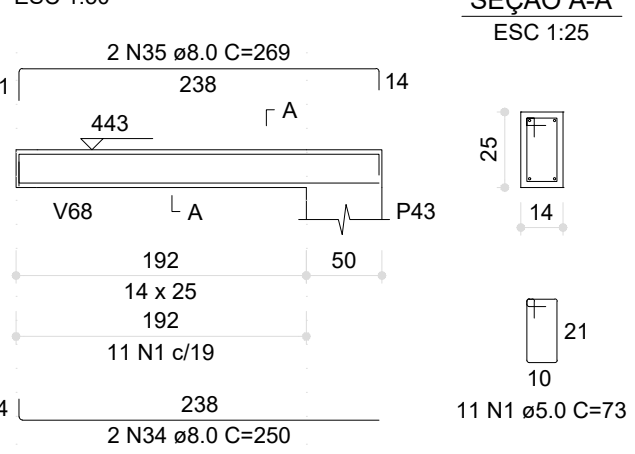
V8 (14 x 25)



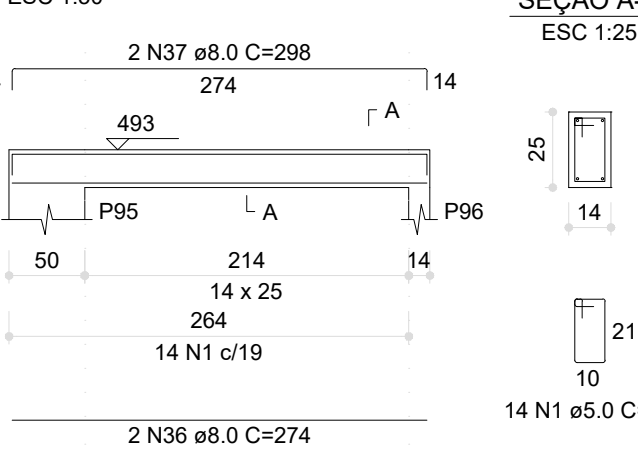
V9 (14 x 25)



V10 (14 x 25)



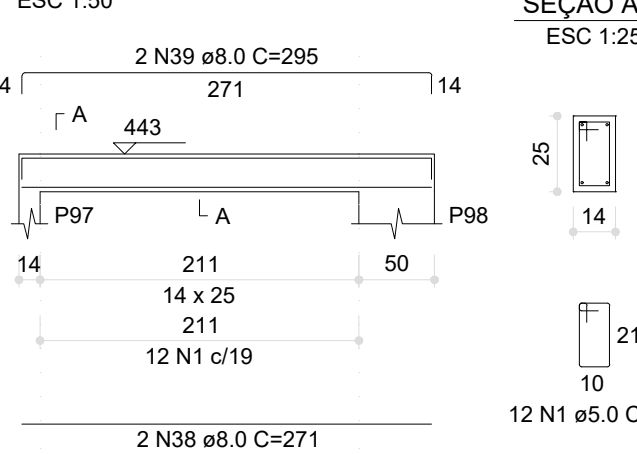
V11 (14 x 25)



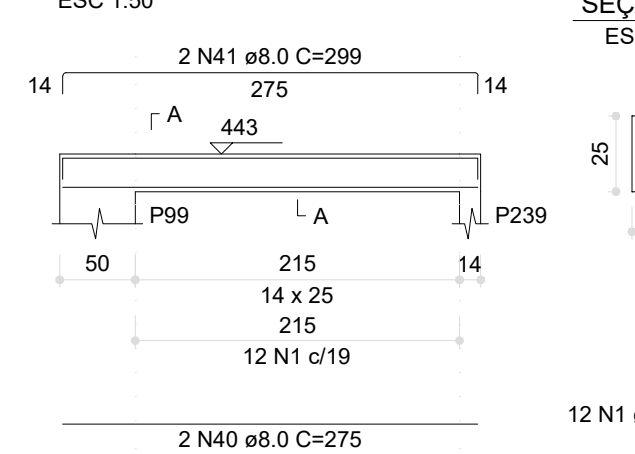
RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	6.0	678	73	49567
	2	6.0	373	73	27231
	3	6.0	351	702	24638
	4	6.0	489	838	40982
	5	6.0	415	838	34783
	6	6.0	275	550	15125
	7	6.0	416	838	34838
	8	6.0	435	870	37845
	9	6.0	410	820	33620
	10	6.0	125	504	6300
	11	6.0	409	818	33357
	12	6.0	355	2130	75510
	13	6.0	255	708	18054
	14	8.0	671	1342	90038
	15	8.0	221	442	9762
	16	8.0	137	1618	22156
	17	8.0	657	1314	86358
	18	8.0	195	300	5850
	19	8.0	175	702	12285
	20	8.0	659	1518	100002
	21	8.0	117	2108	24666
	22	8.0	674	1348	90512
	23	8.0	175	358	6265
	24	8.0	252	504	12700
	25	8.0	271	542	14678
	26	8.0	285	598	17043
	27	8.0	312	624	19469
	28	8.0	254	508	12903
	29	8.0	273	548	14954
	30	8.0	253	508	12852
	31	8.0	272	544	14797
	32	8.0	285	598	17043
	33	8.0	314	628	19712
	34	8.0	250	503	12575
	35	8.0	221	442	9762
	36	8.0	274	548	14954
	37	8.0	298	598	17596
	38	8.0	271	542	14678
	39	8.0	285	598	17043
	40	8.0	312	624	19469
	41	8.0	275	550	15125
	42	8.0	257	514	13218
	43	8.0	285	598	17043
	44	8.0	257	514	13218
	45	8.0	184	398	7323
	46	8.0	213	425	9068
	47	8.0	194	388	7529
	48	8.0	213	425	9068
	49	8.0	275	550	15125
	50	8.0	285	598	17043
	51	8.0	273	548	14954
	52	8.0	297	594	17628
	53	8.0	289	598	17287
	54	8.0	257	514	13218
	55	8.0	288	598	17287
	56	8.0	241	482	11592
	57	8.0	265	530	14135
	58	8.0	275	550	15125
	59	8.0	251	502	12557
	60	8.0	270	540	14580
	61	8.0	254	508	12903
	62	8.0	273	548	14954
	63	8.0	313	628	19712
	64	8.0	264	528	13932
	65	8.0	253	506	12852
	66	8.0	659	1318	86958
	67	8.0	158	335	5291
	68	8.0	373	1348	50283
	69	8.0	158	316	5005
	70	8.0	658	1316	86858
	71	8.0	681	1322	90038
	72	8.0	171	342	5842
	73	8.0	285	598	17043
	74	8.0	280	560	15680
	75	8.0	304	608	18283
	76	8.0	324	1048	33943
	77	8.0	282	564	15828
	78	8.0	305	612	18360
	79	8.0	122	244	2976
	80	8.0	141	282	3976
	81	8.0	122	244	2976
	82	8.0	141	282	3976

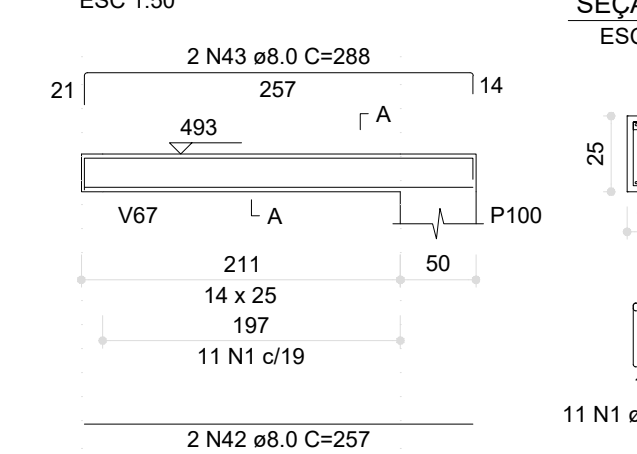
V12 (14 x 25)



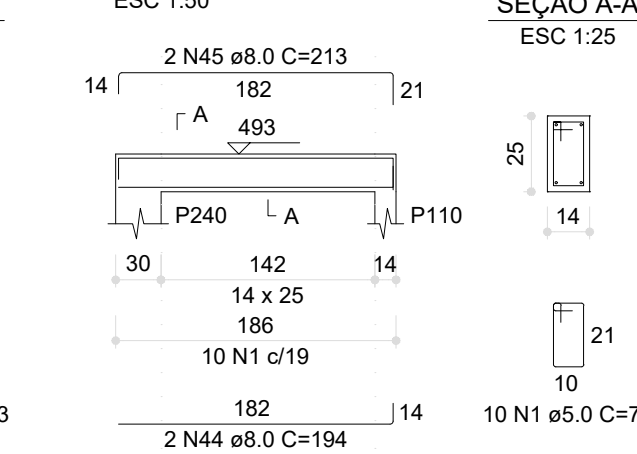
V13 (14 x 25)



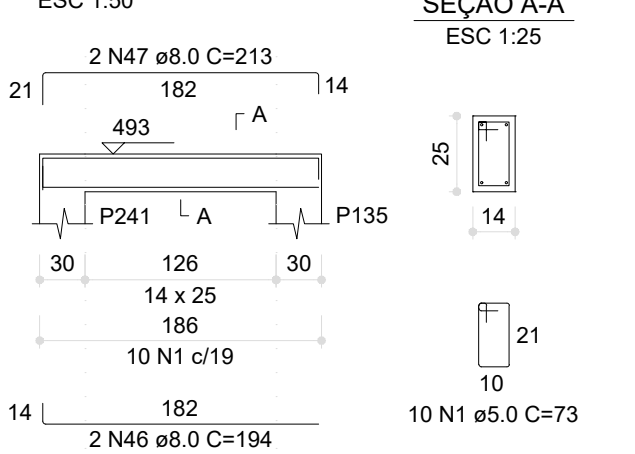
V14 (14 x 25)



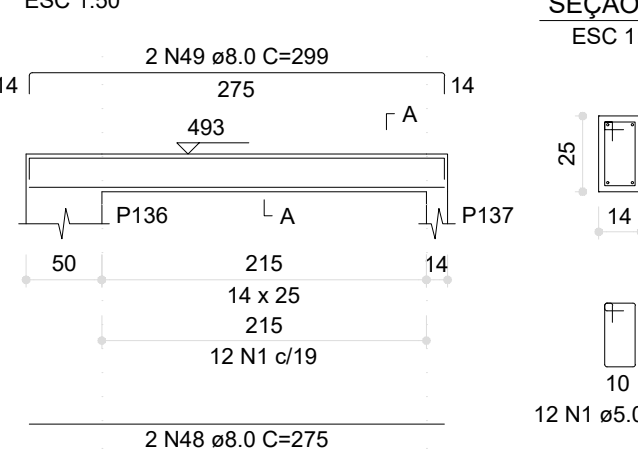
V15 (14 x 25)



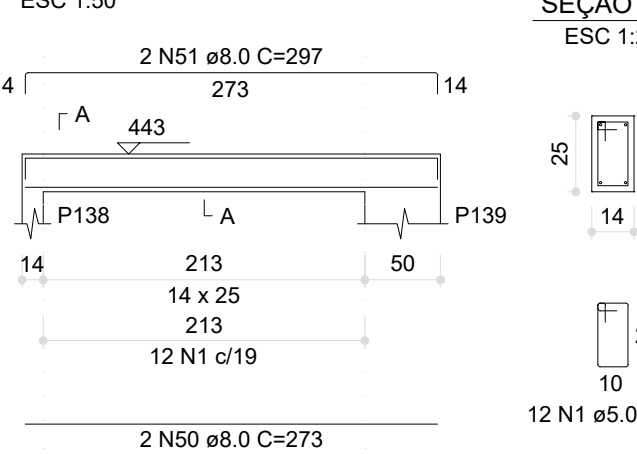
V16 (14 x 25)



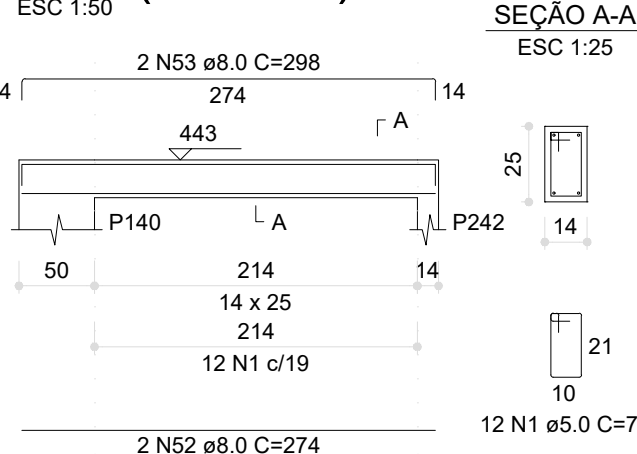
V17 (14 x 25)



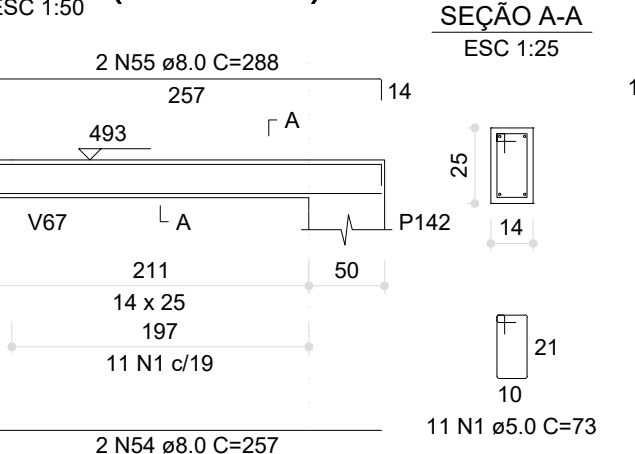
V18 (14 x 25)



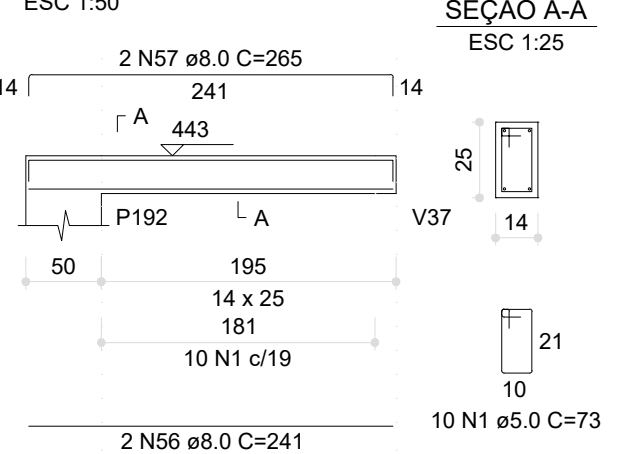
V19 (14 x 25)



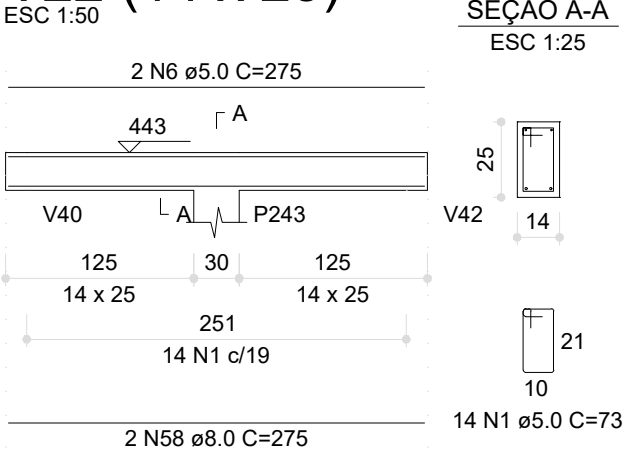
V20 (14 x 25)



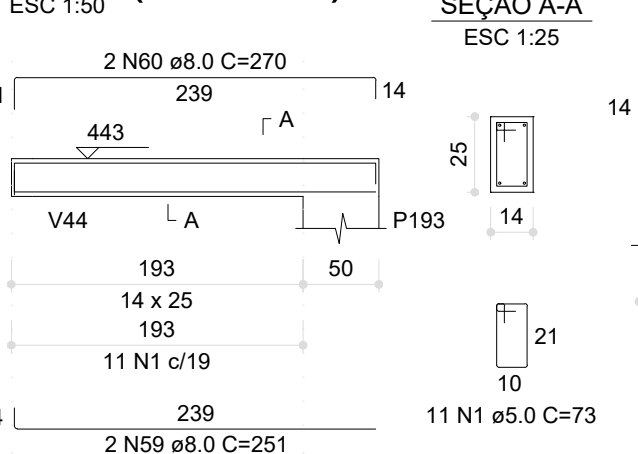
V21 (14 x 25)



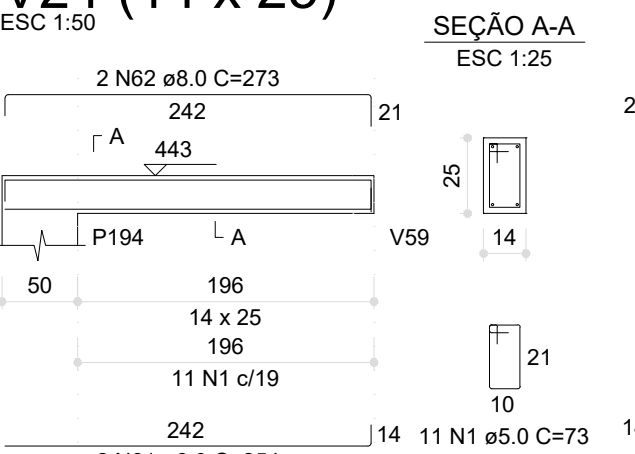
V22 (14 x 25)



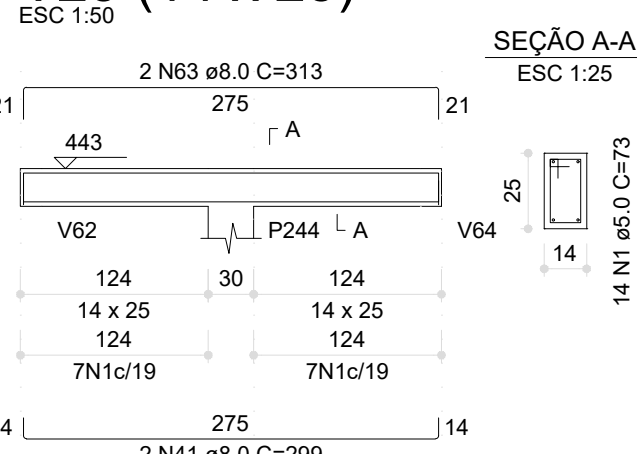
V23 (14 x 25)



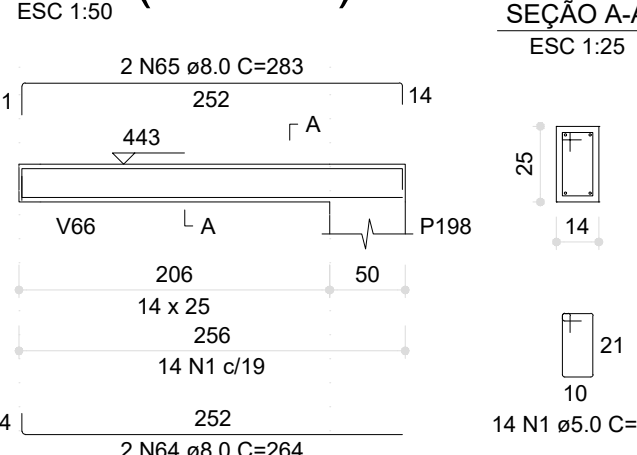
V24 (14 x 25)



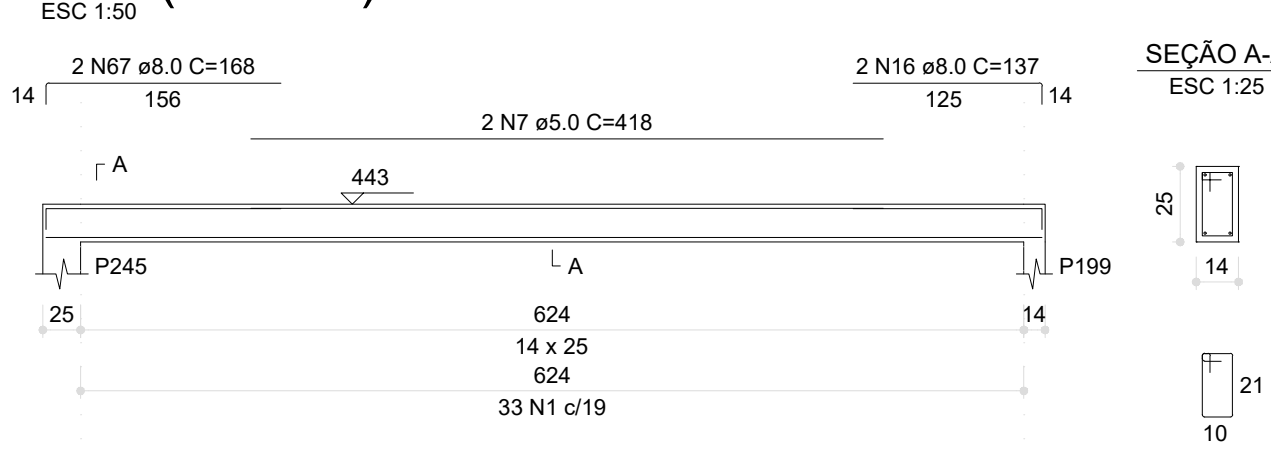
V25 (14 x 25)



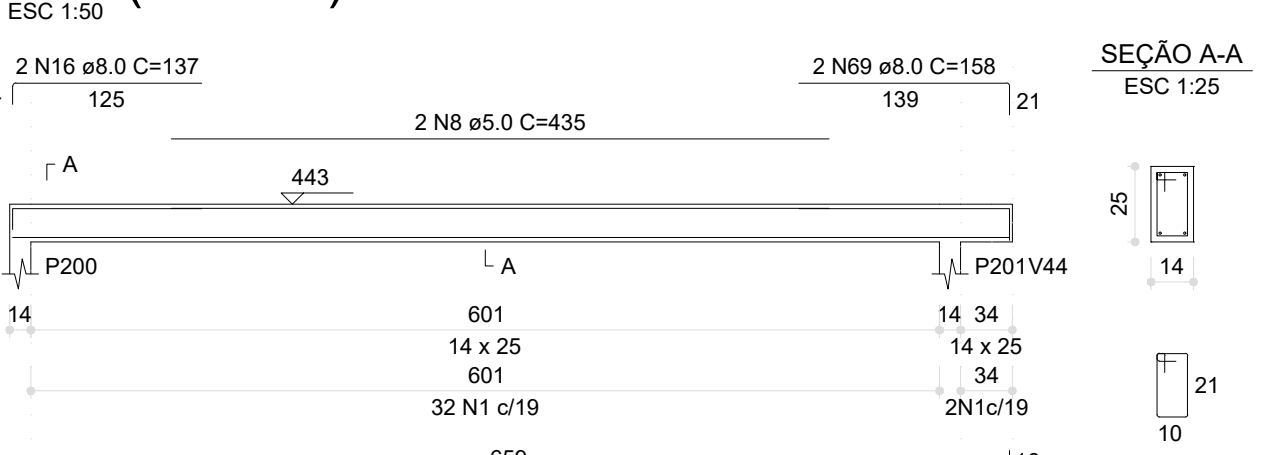
V26 (14 x 25)



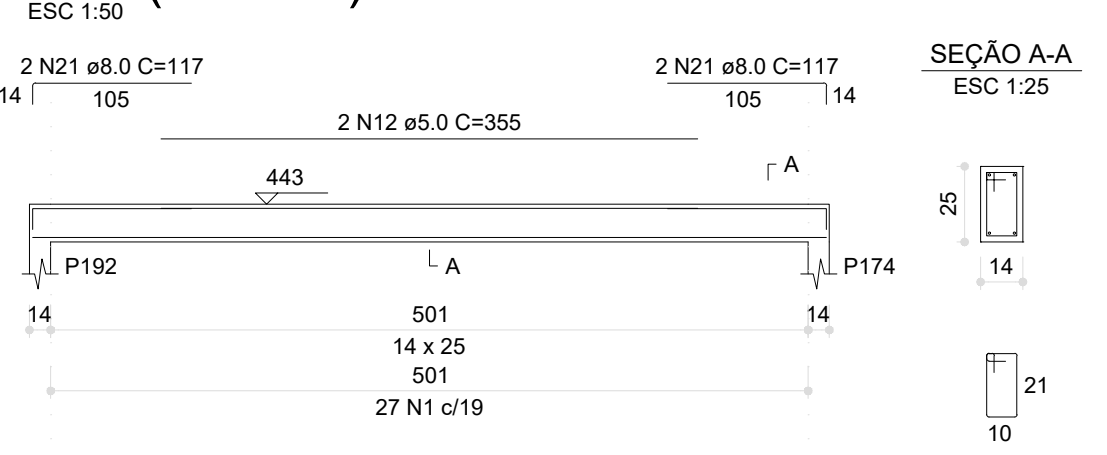
V27 (14 x 25)



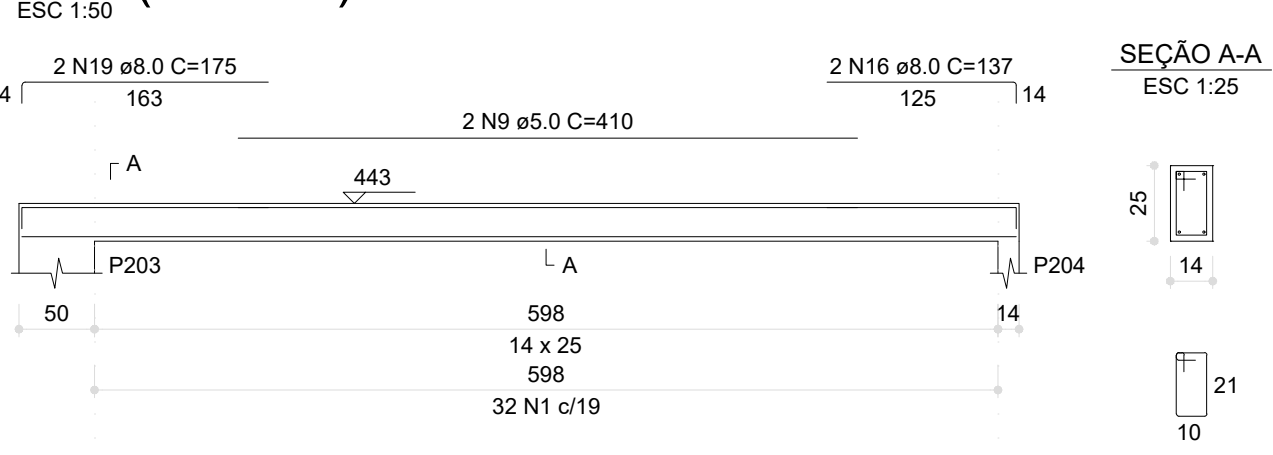
V28 (14 x 25)



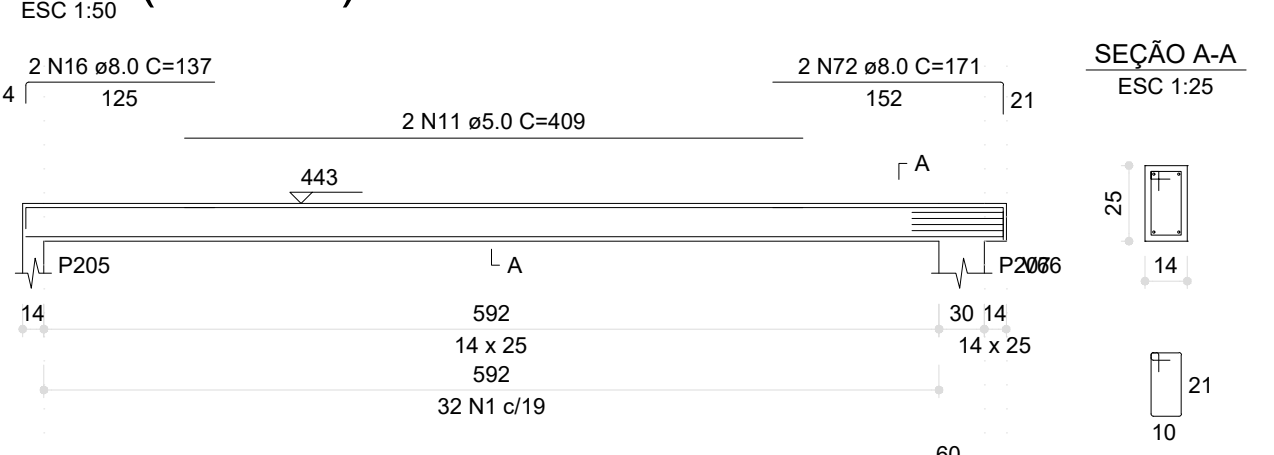
V31 (14 x 25)



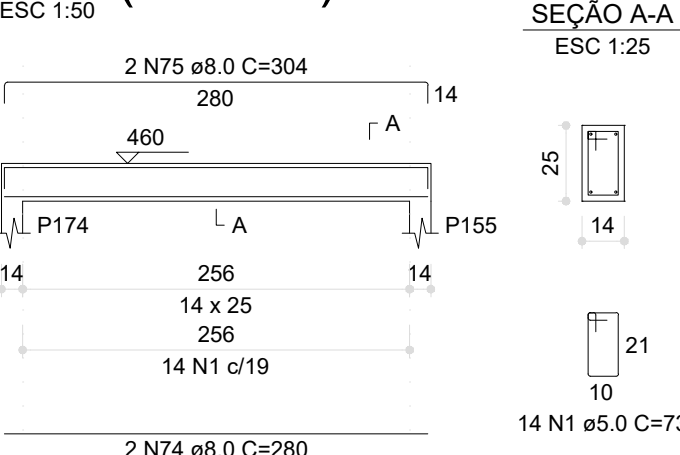
V29 (14 x 25)



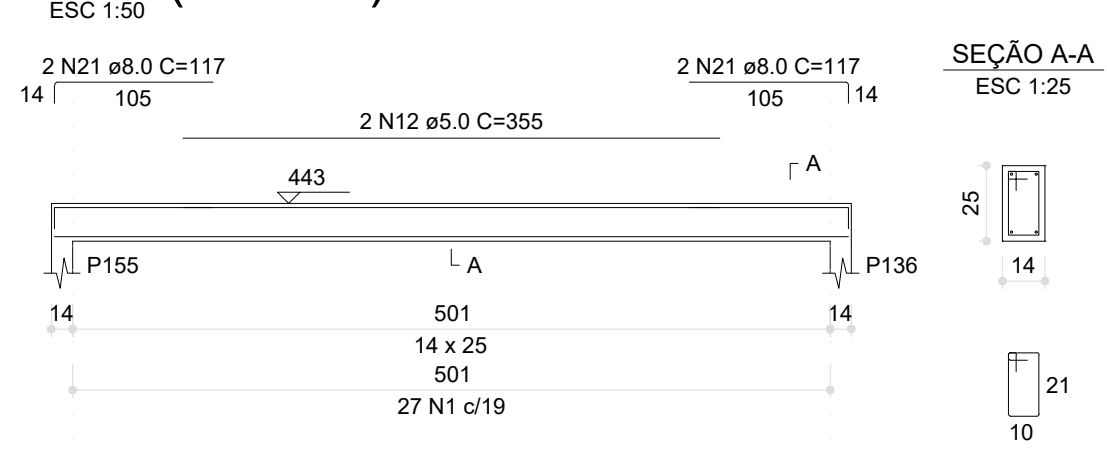
V30 (14 x 25)



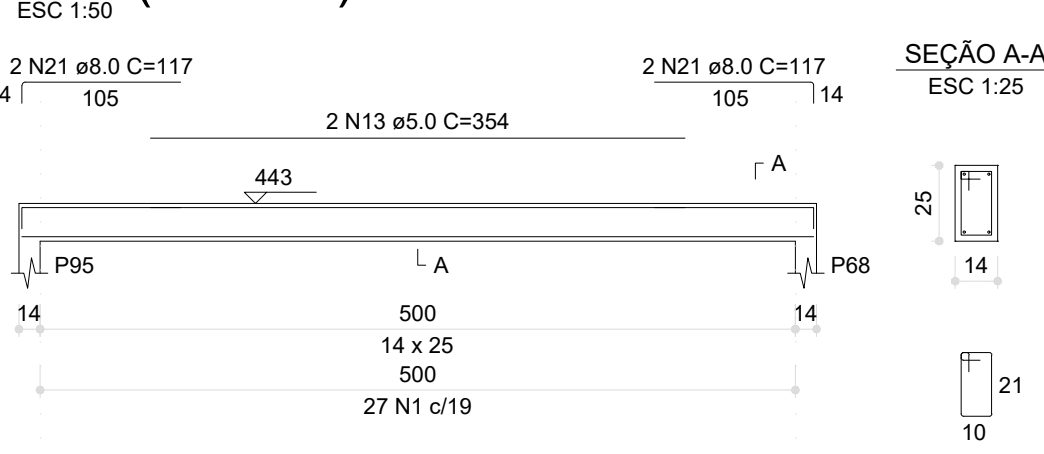
V32 (14 x 25)



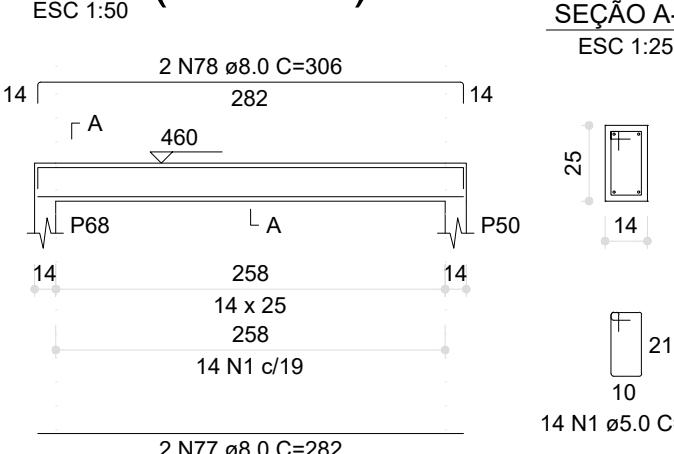
V33 (14 x 25)



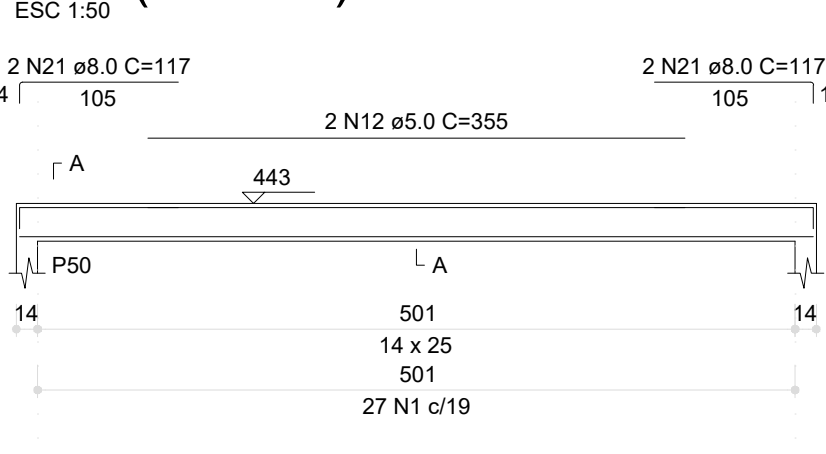
V34 (14 x 25)



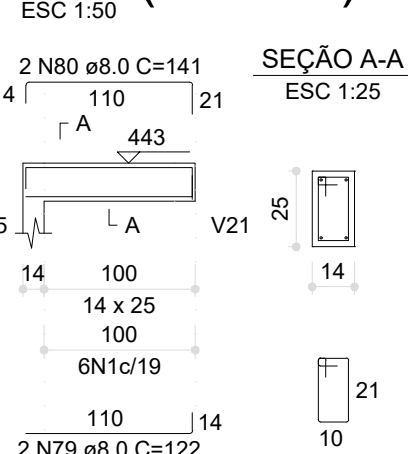
V35 (14 x 25)



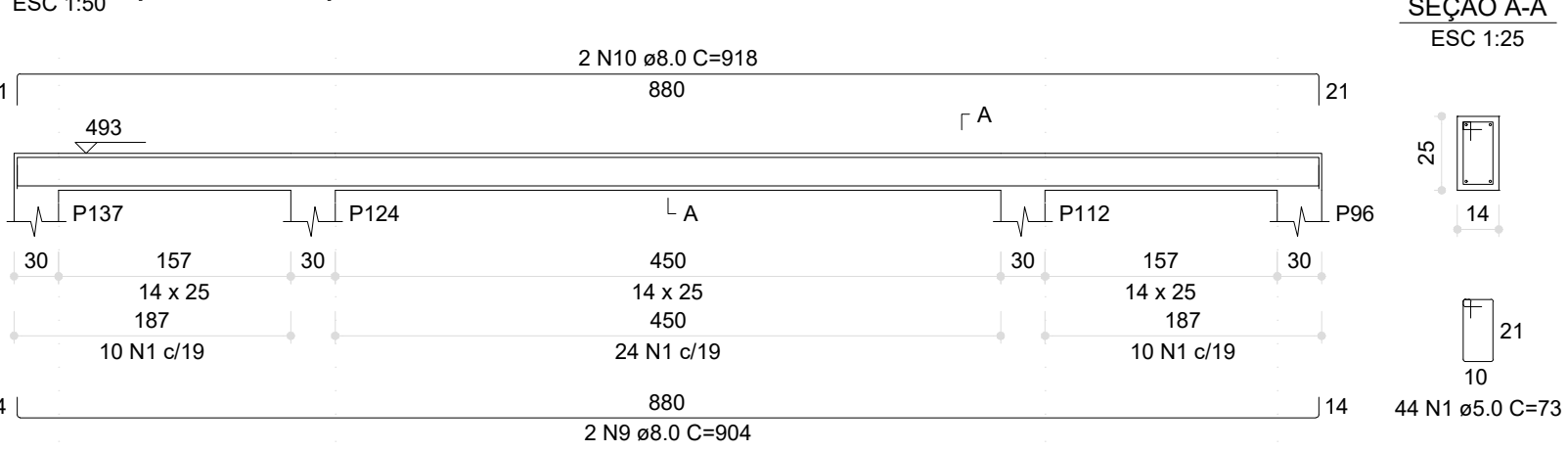
V36 (14 x 25)



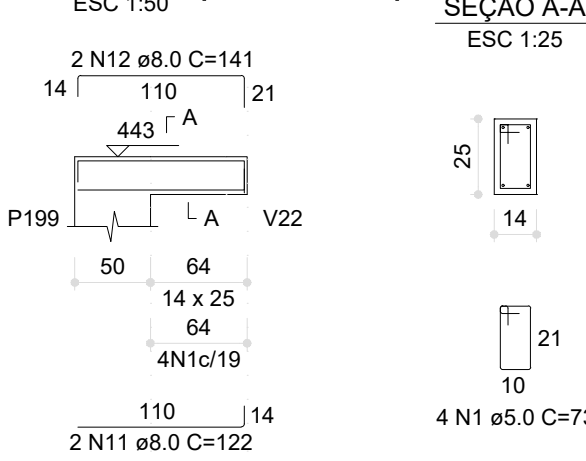
V37 (14 x 25)



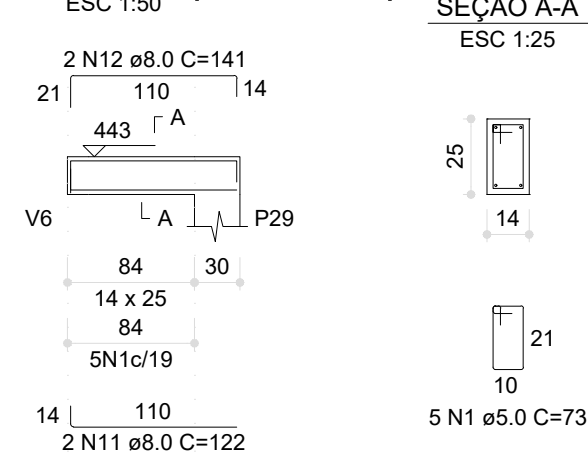
V38 (14 x 25)



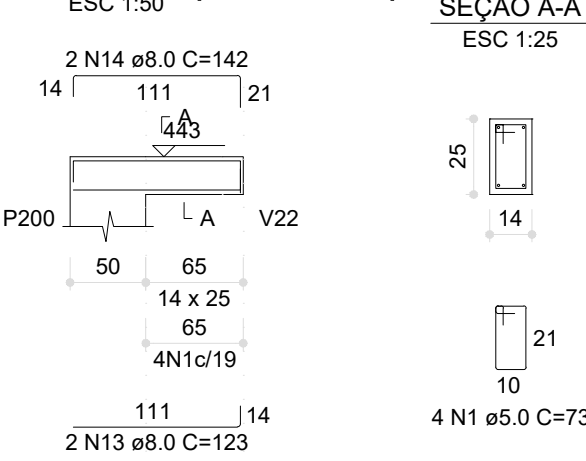
V40 (14 x 25)



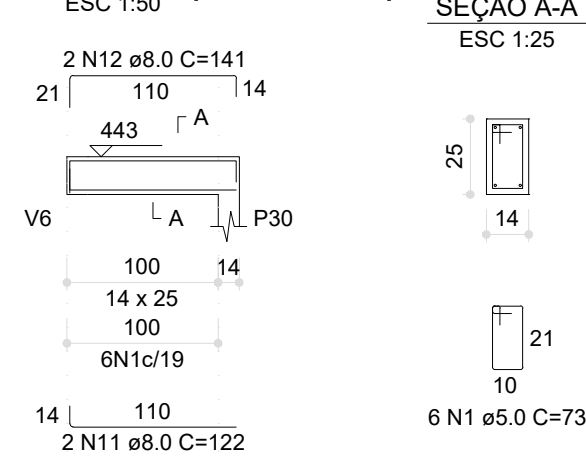
V41 (14 x 25)



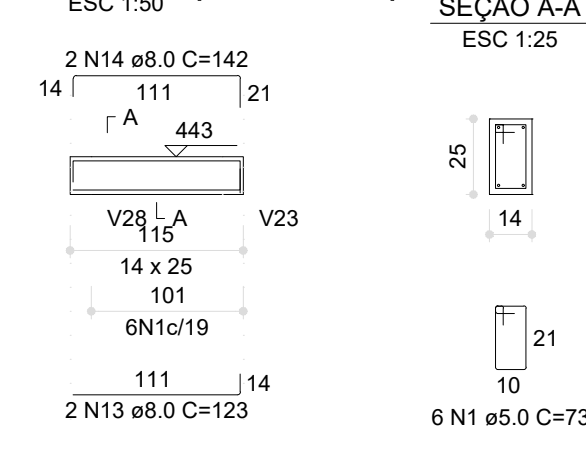
V42 (14 x 25)



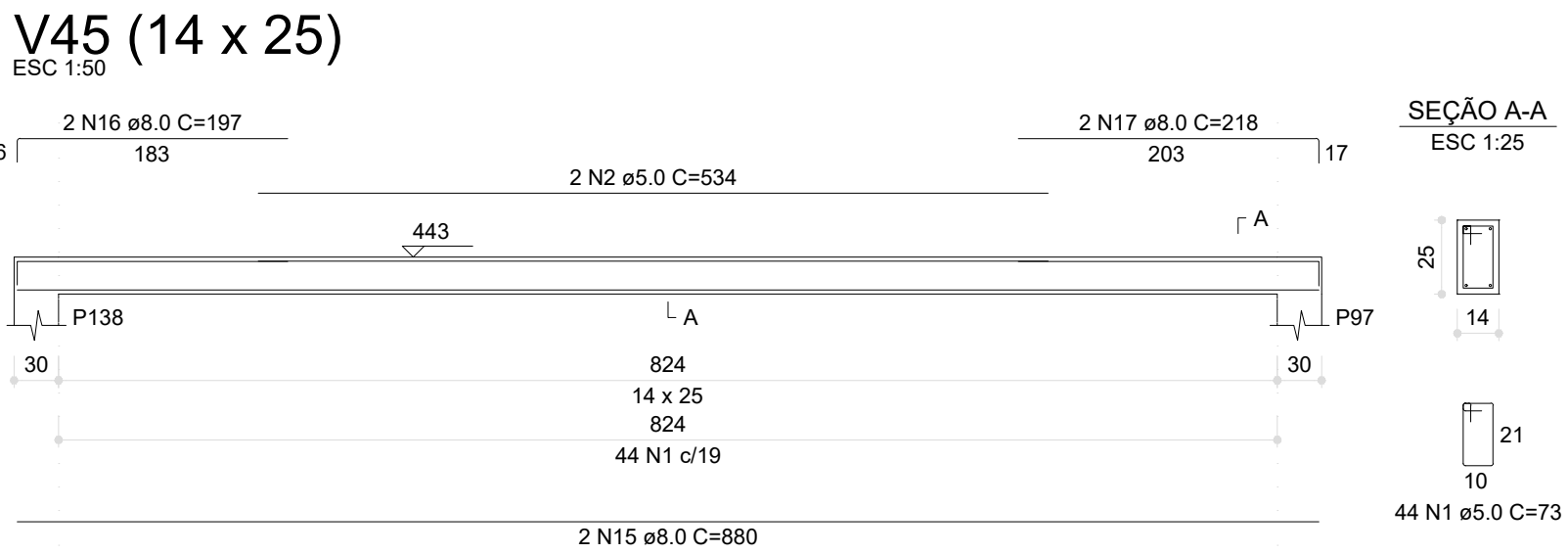
V43 (14 x 25)



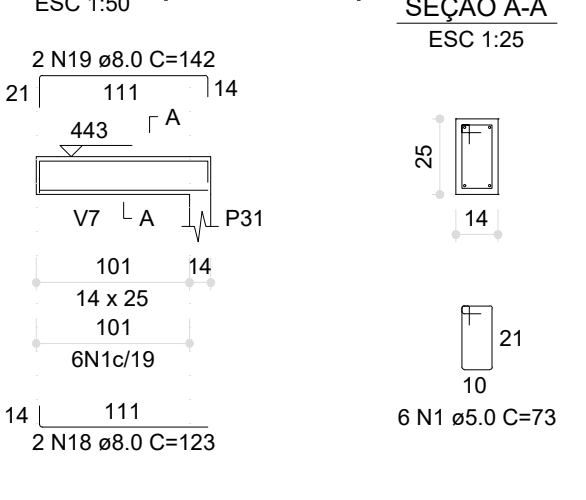
V44 (14 x 25)



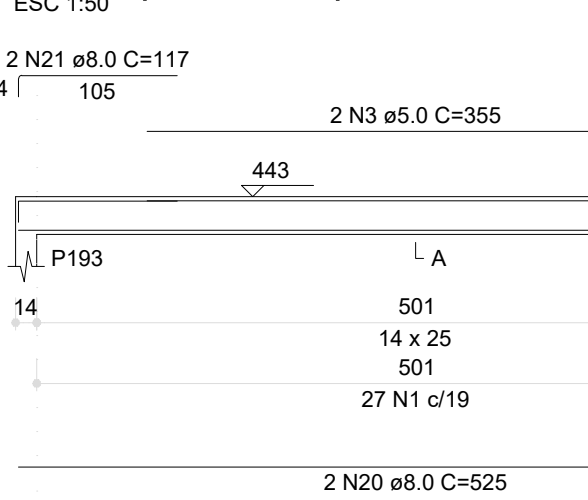
V45 (14 x 25)



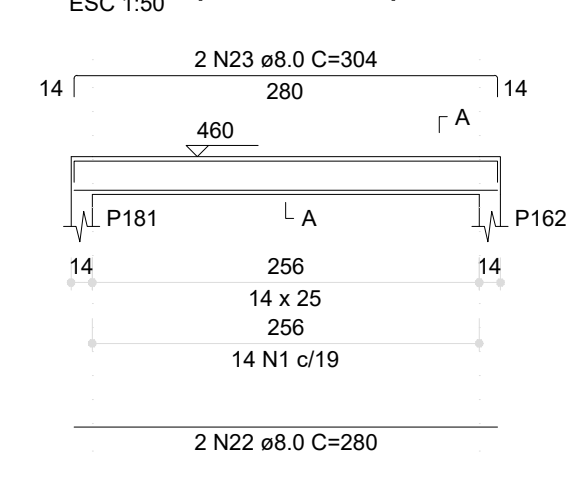
V46 (14 x 25)



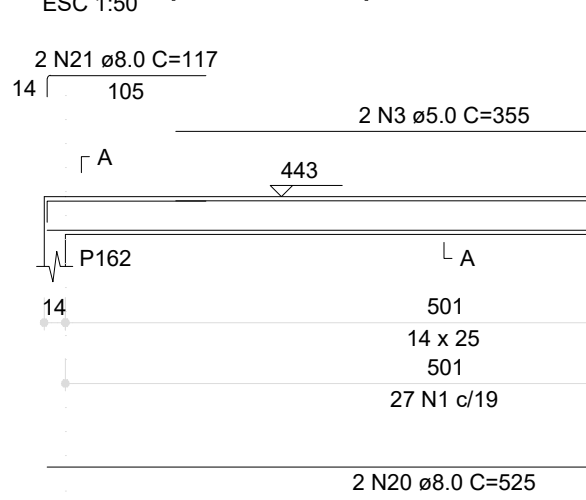
V47 (14 x 25)



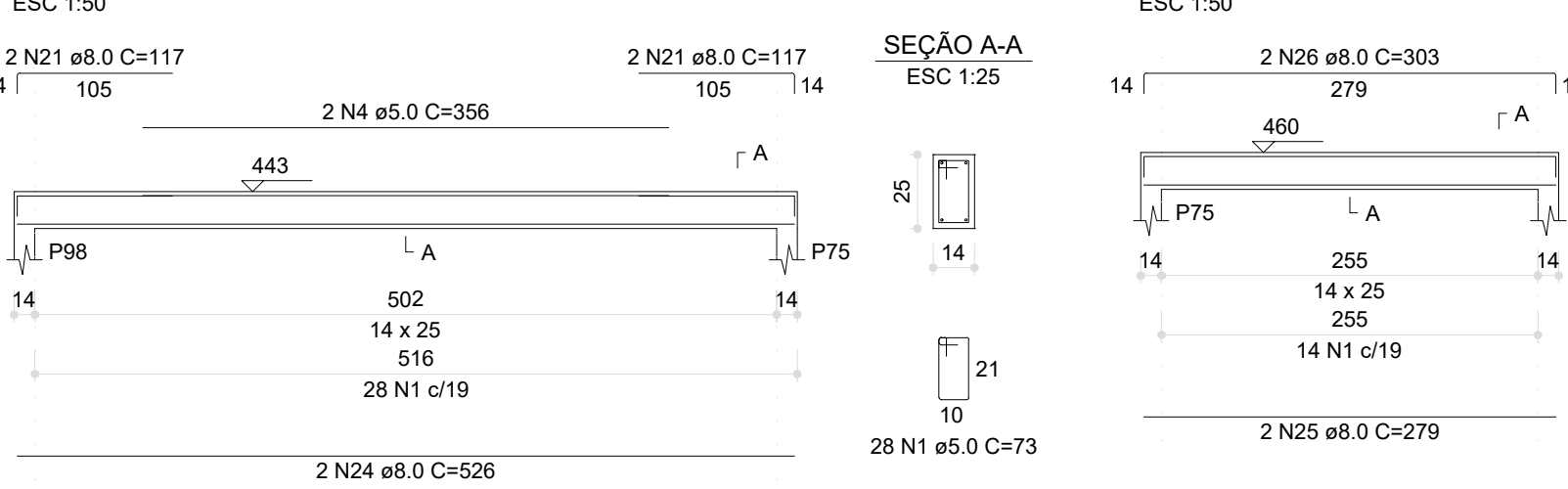
V48 (14 x 25)



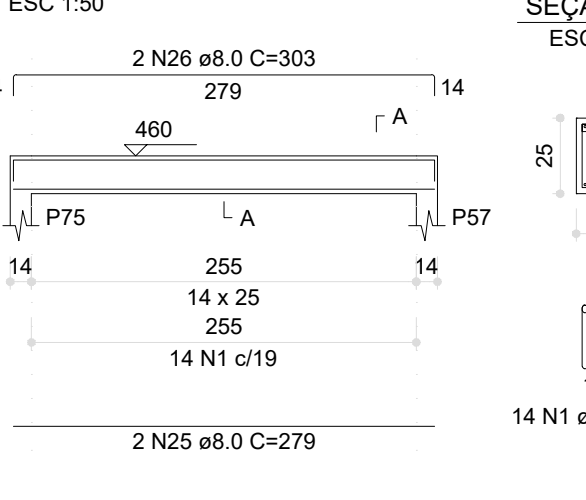
V49 (14 x 25)



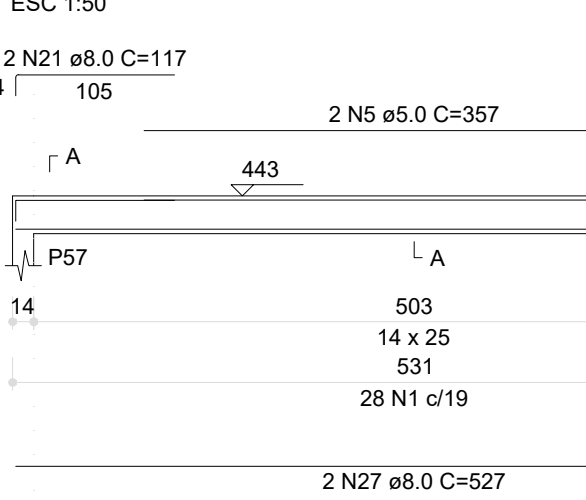
V50 (14 x 25)



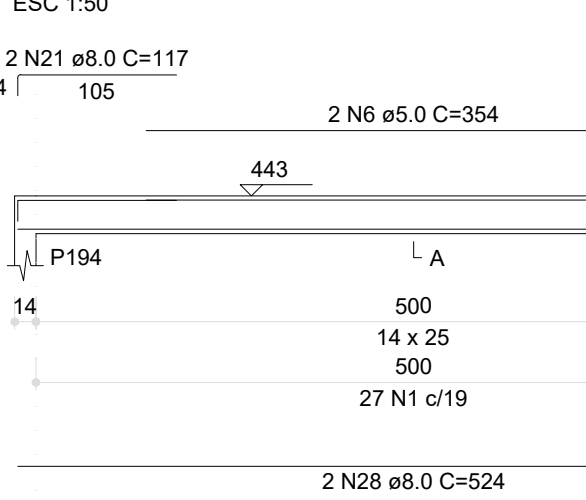
V51 (14 x 25)



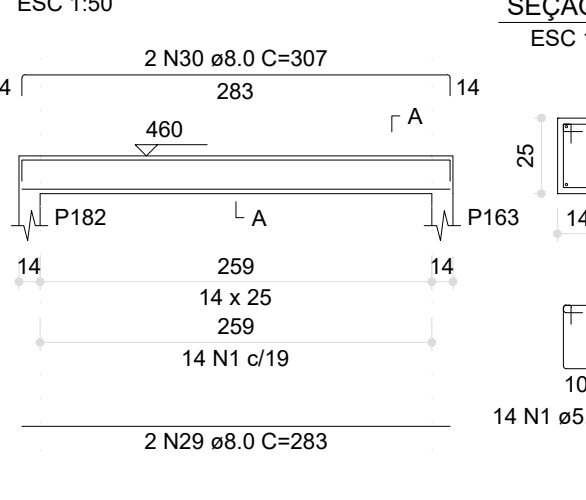
V52 (14 x 25)



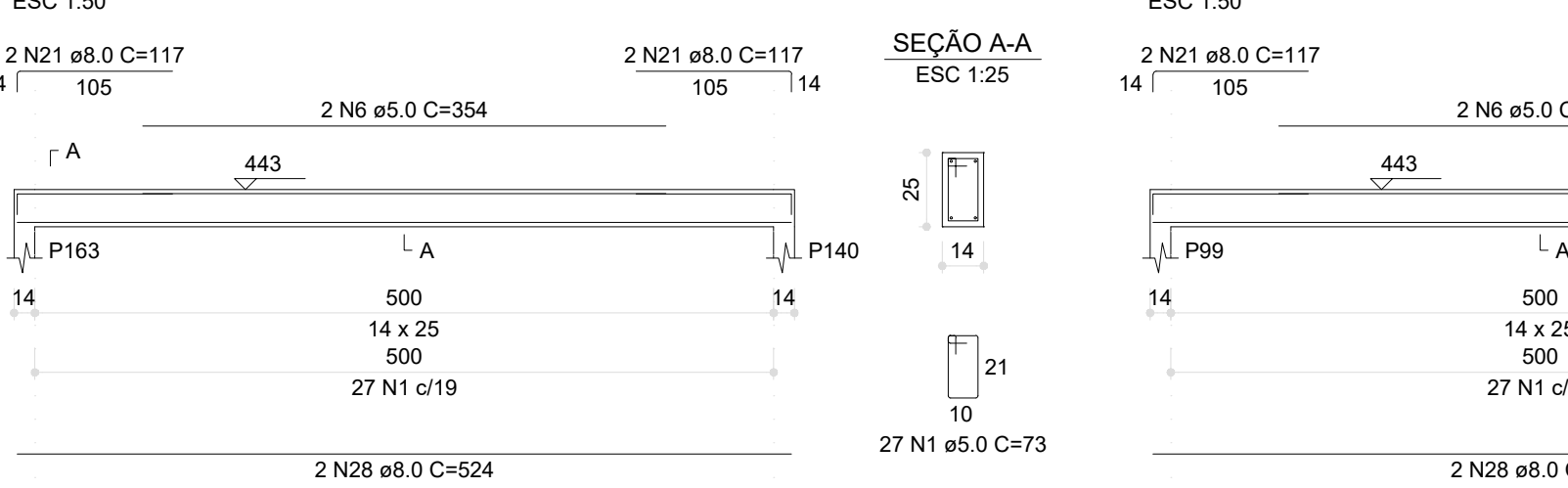
V53 (14 x 25)



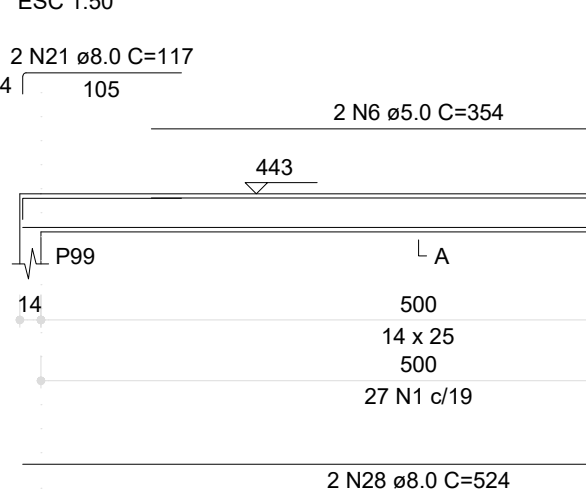
V54 (14 x 25)



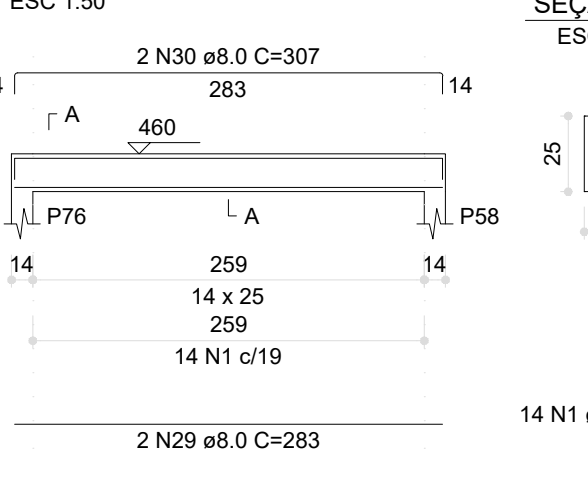
V55 (14 x 25)



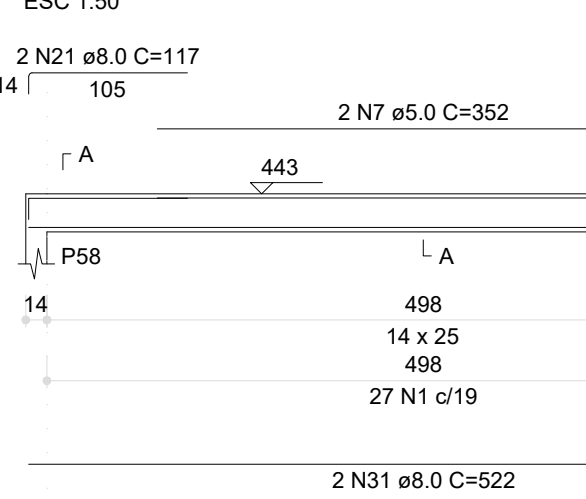
V56 (14 x 25)



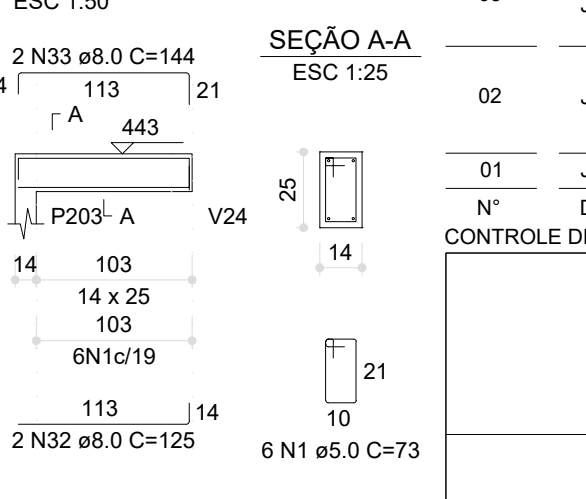
V57 (14 x 25)



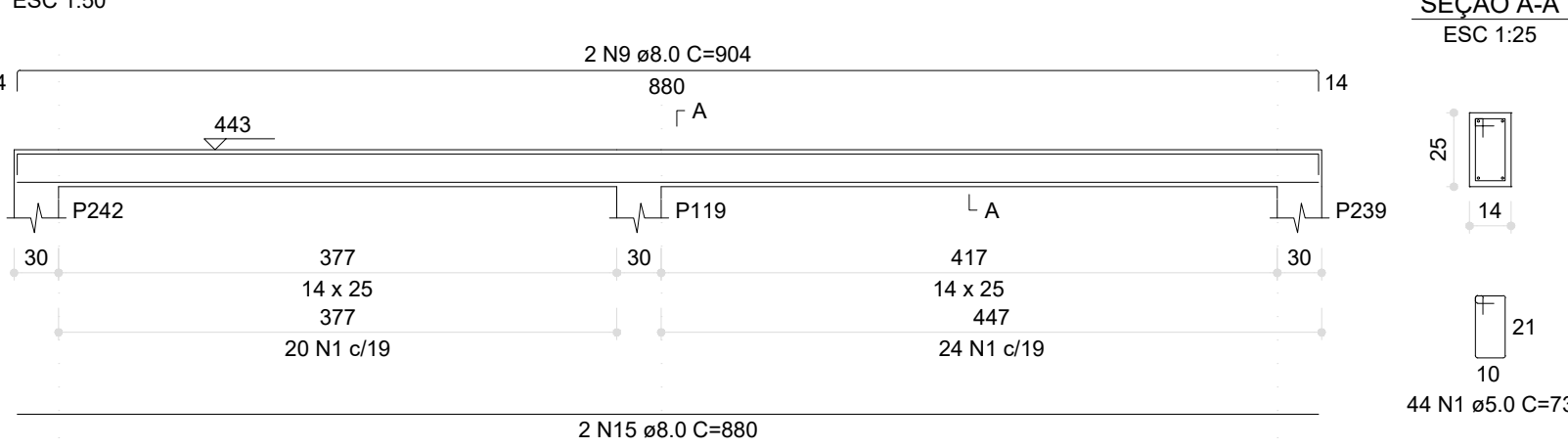
V58 (14 x 25)



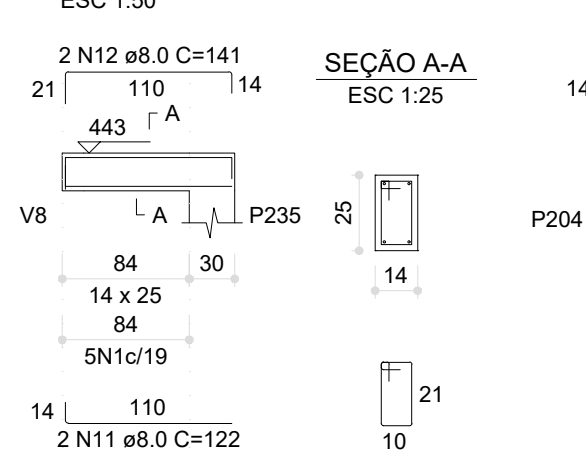
V59 (14 x 25)



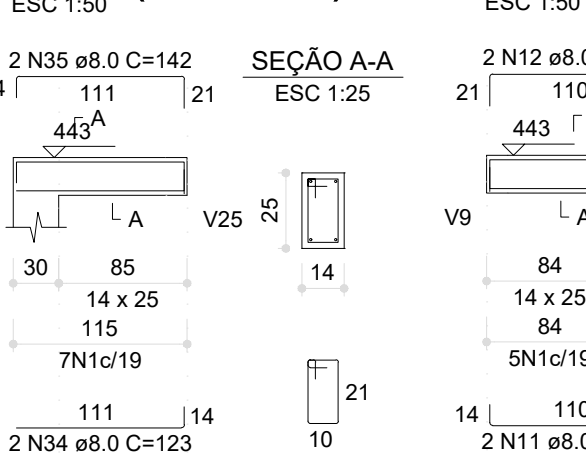
V60 (14 x 25)



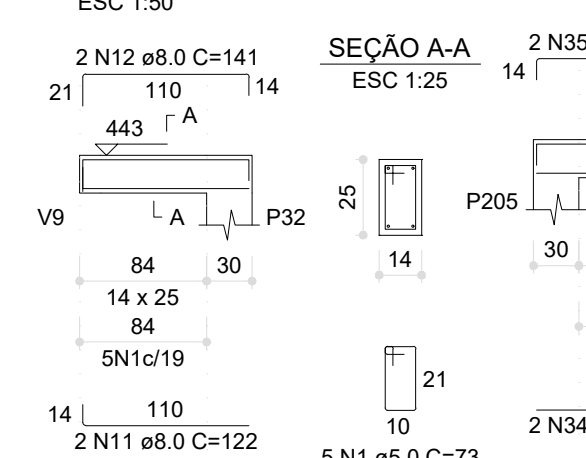
V61 (14 x 25)



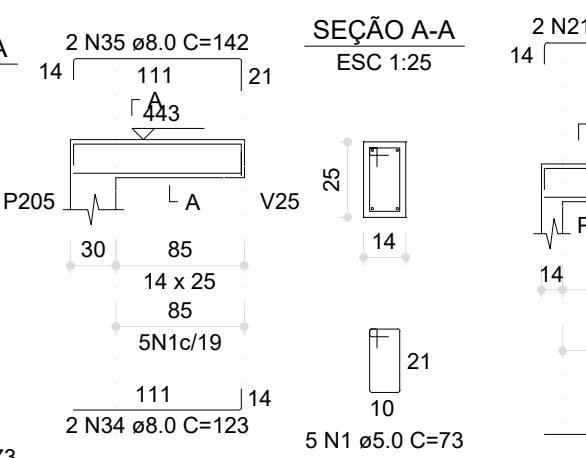
V62 (14 x 25)



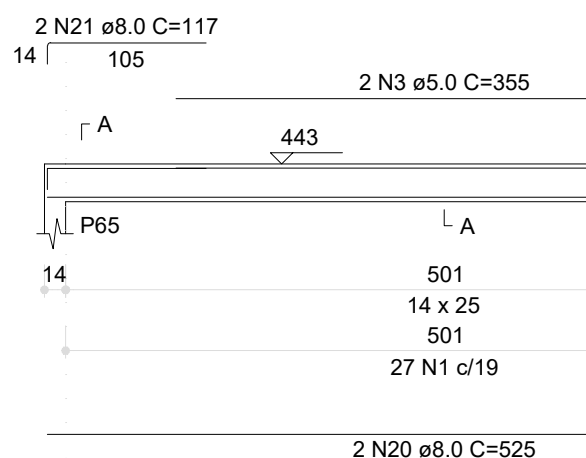
V63 (14 x 25)



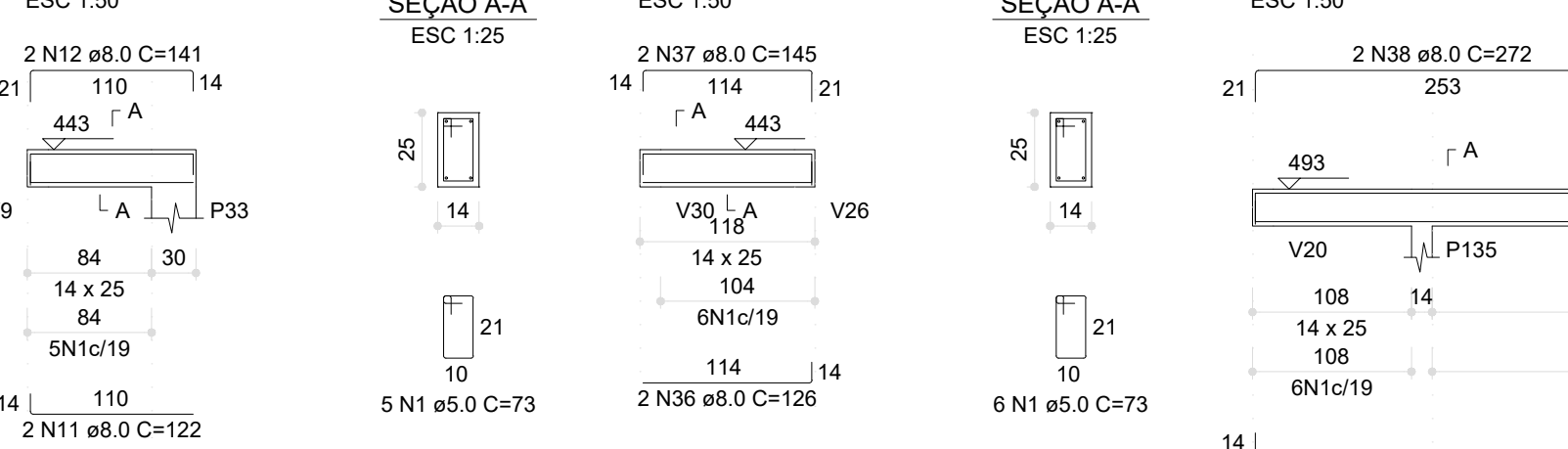
V64 (14 x 25)



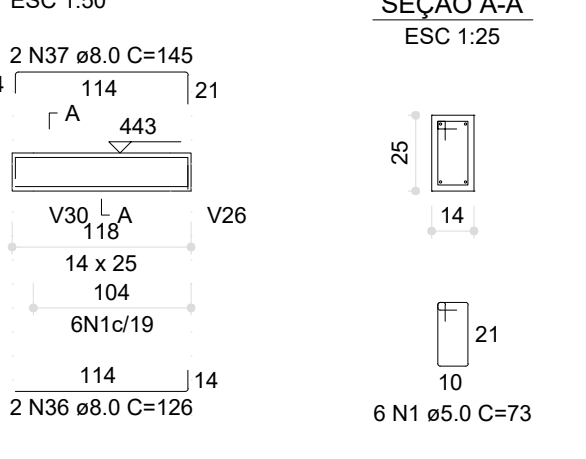
V74 (14 x 25)



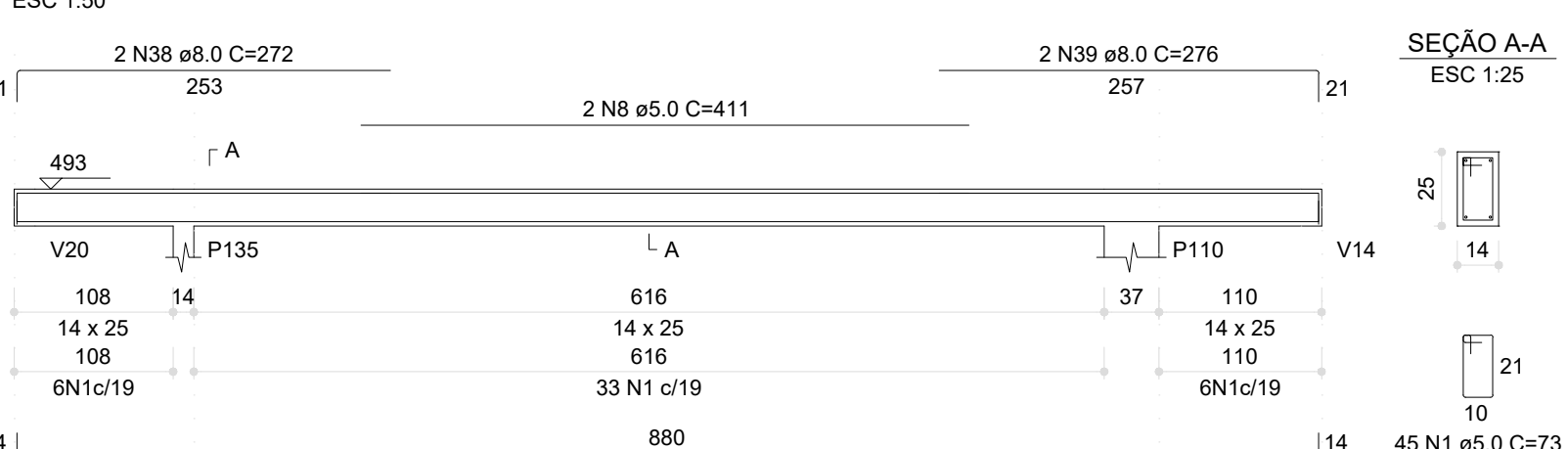
V65 (14 x 25)



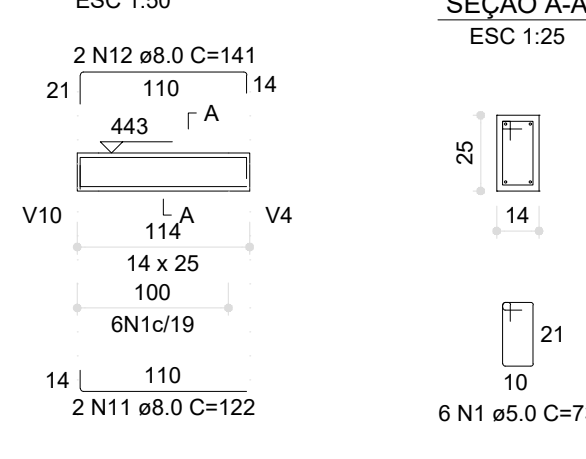
V66 (14 x 25)



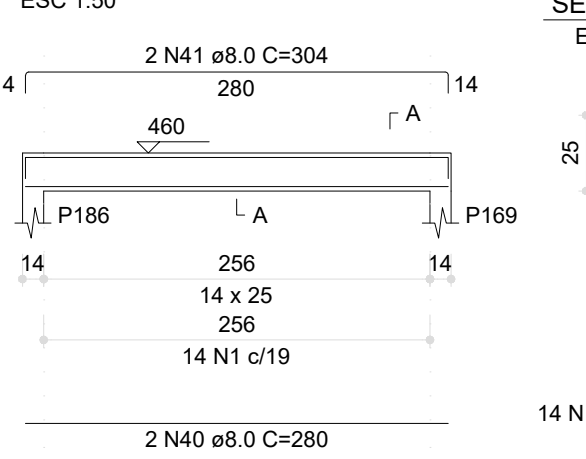
V67 (14 x 25)



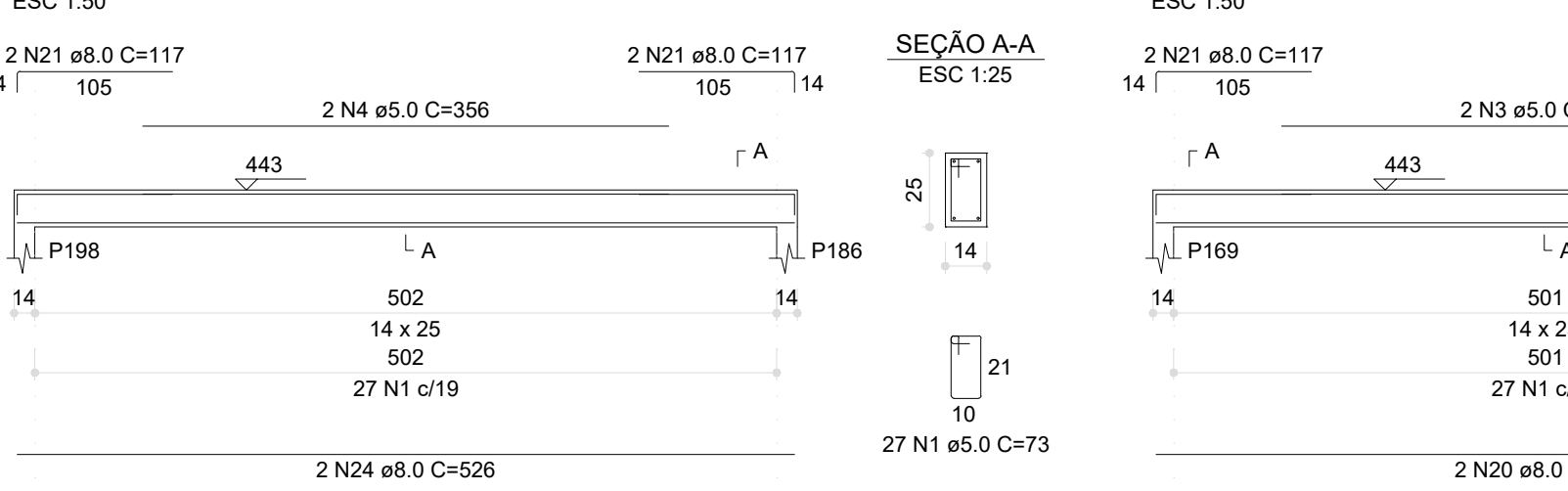
V68 (14 x 25)



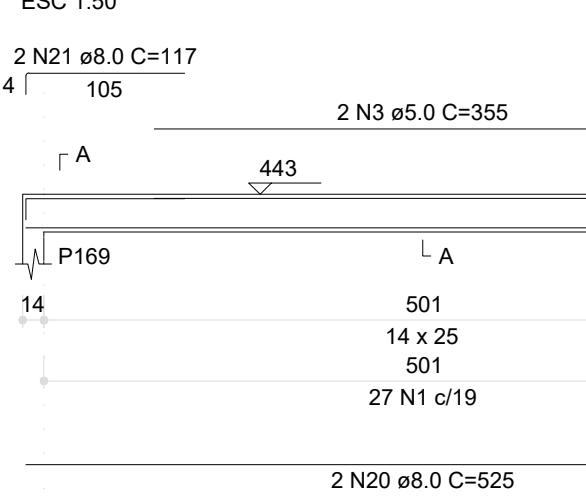
V70 (14 x 25)



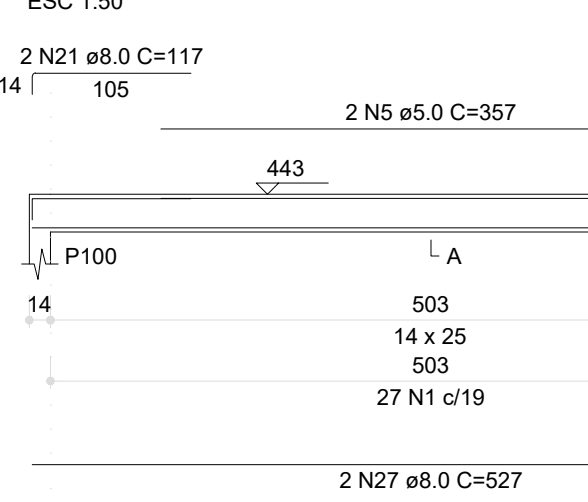
V69 (14 x 25)



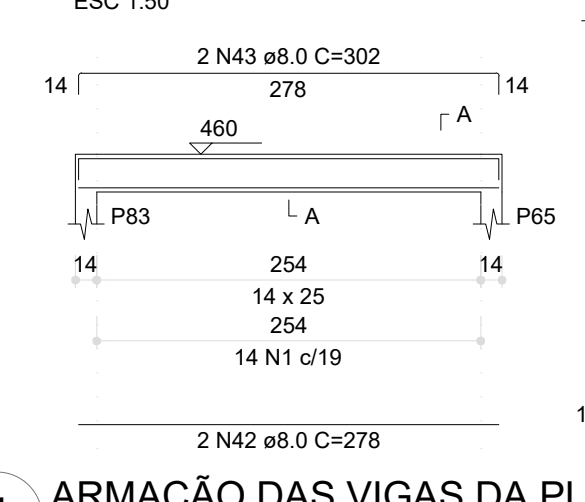
V71 (14 x 25)



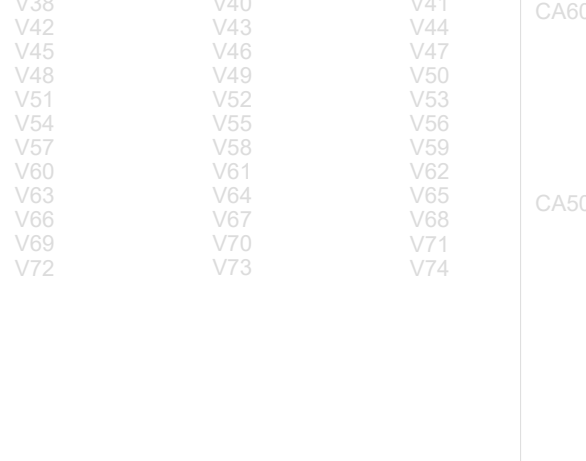
V72 (14 x 25)



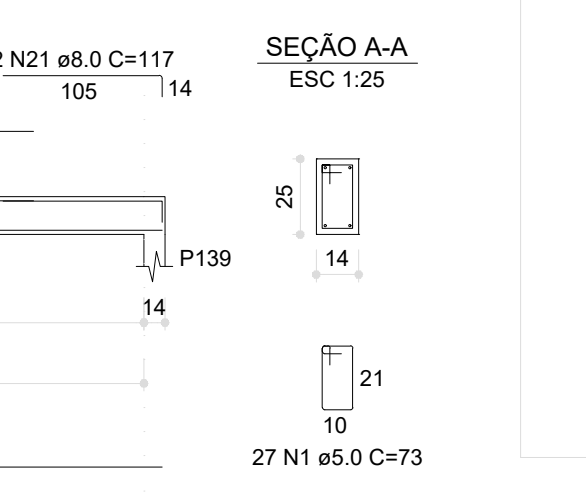
V73 (14 x 25)



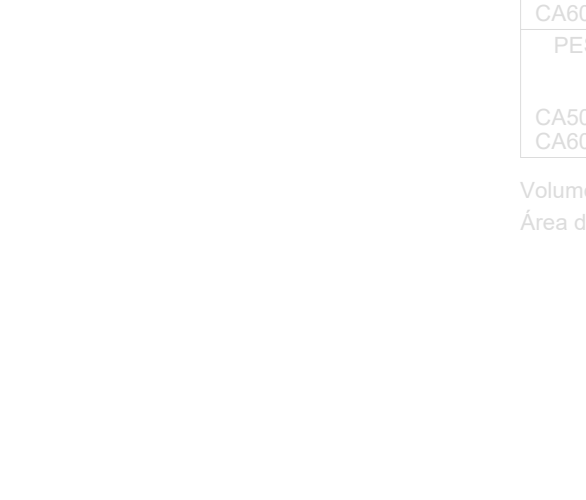
V74 (14 x 25)



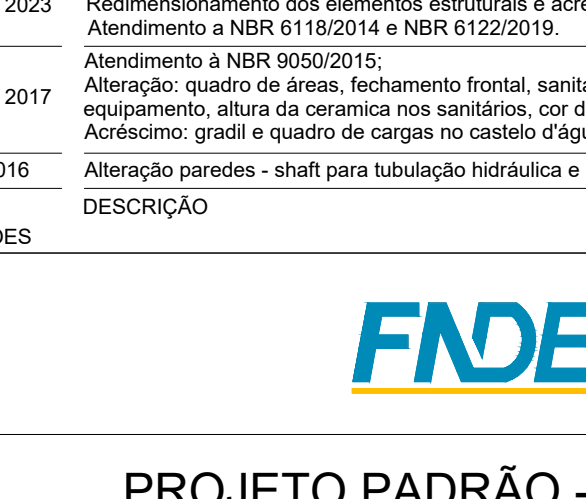
V75 (14 x 25)



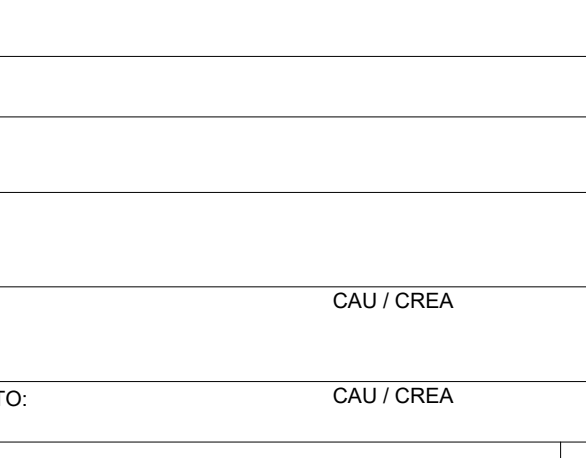
V76 (14 x 25)



V77 (14 x 25)



V78 (14 x 25)



V79 (14 x 25)



V80 (14 x 25)



V81 (14 x 25)



V82 (14 x 25)

V83 (14 x 25)

V84 (14 x 25)

V85 (14 x 25)

V86 (14 x 25)

V87 (14 x 25)

V88 (14 x 25)

V89 (14 x 25)

V90 (14 x 25)

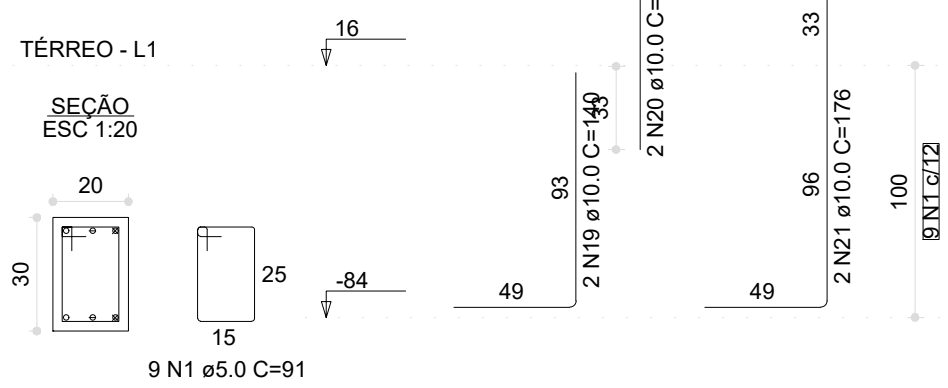
V91 (14 x 25)

V92 (14 x 25)

V93 (14 x 25)

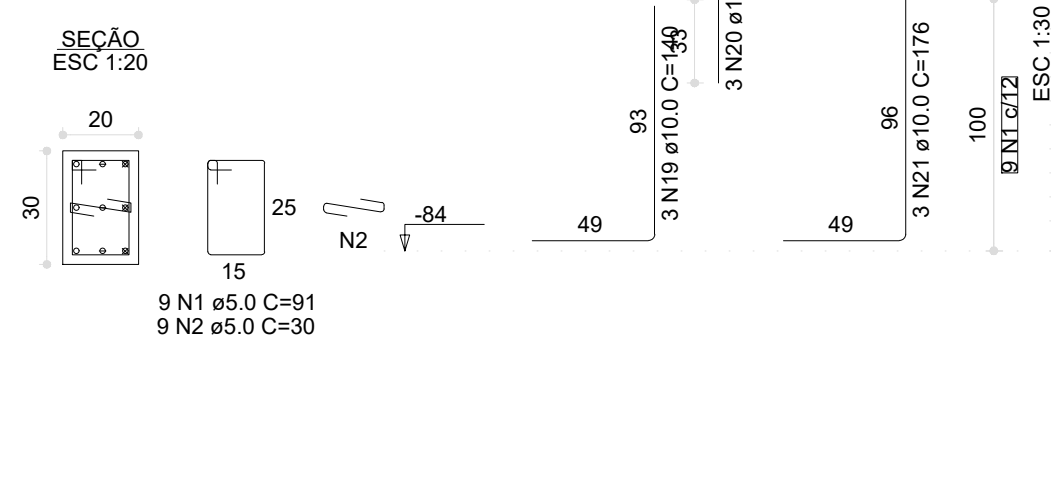
V94 (14 x 25)

P1=P2=P3=P4=P5=P6=P7=P8=P9=P14=P15=P16=P17=P18=
=P24=P35=P47=P67=P85=P93=P111=P118=P127=
=P148=P154=P173=P189=P202=P209=P212=P213=
=P214=P215=P216=P217=P218=P219=P220=P221=
=P222=P223=P224=P225=P226=P227=P228=P229=
=P230=P231=P234



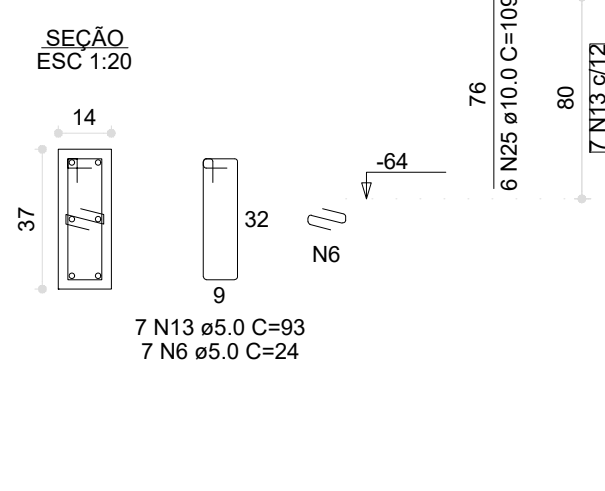
P10

TÉRREO - L1



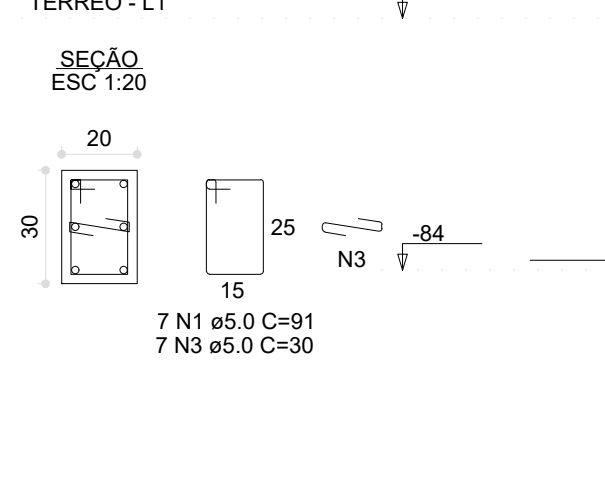
P105=P110

TÉRREO - L1



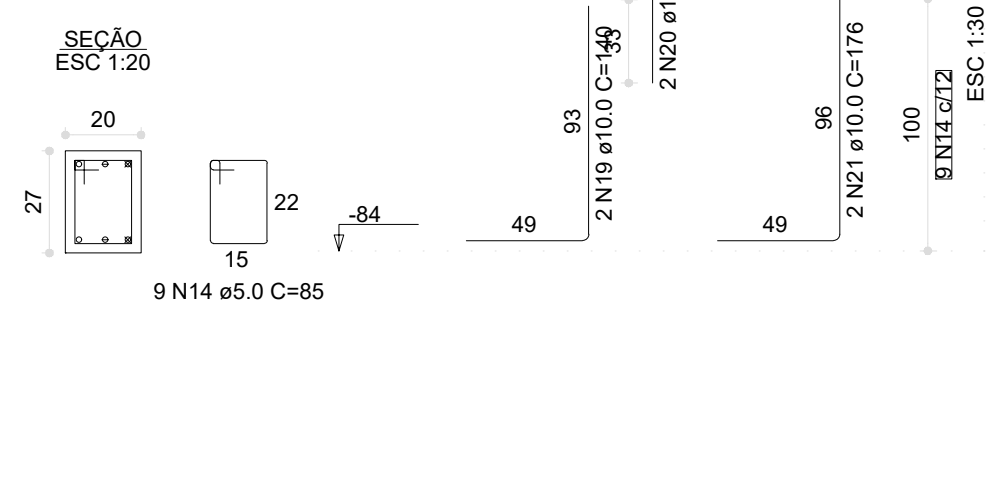
P11

TÉRREO - L1



P114

TÉRREO - L1

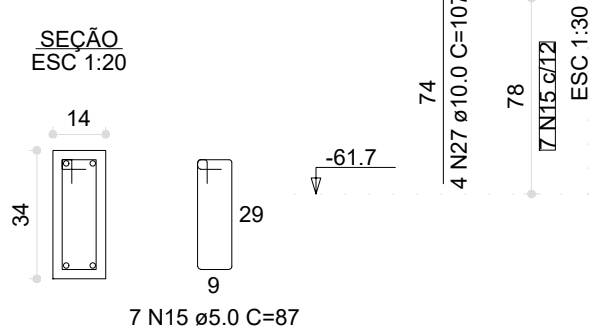


RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
CA60	1	5.0	527	91	47957
	2	5.0	18	30	540
	3	5.0	7	30	210
	4	5.0	40	111	4440
	5	5.0	80	71	5680
	6	5.0	381	24	8664
	7	5.0	7	99	693
	8	5.0	791	79	62489
	9	5.0	22	24	528
	10	5.0	232	119	34748
	11	5.0	29	40	1160
	12	5.0	35	24	840
	13	5.0	14	93	1302
	14	5.0	9	86	774
	15	5.0	14	87	1218
	16	5.0	18	81	1458
	17	5.0	7	99	693
	18	5.0	9	73	657
	19	10.0	133	140	18620
	20	10.0	127	67	8509
	21	10.0	111	178	19836
	22	10.0	8	93	744
	23	10.0	12	129	1548
	24	10.0	6	73	438
	25	10.0	22	109	2398
	26	10.0	40	71	2840
	27	10.0	424	107	45368
	28	10.0	28	63	2324
	29	10.0	198	119	23562
	30	10.0	6	108	648
	31	10.0	10	146	1460
	32	10.0	4	117	468
	33	10.0	8	162	1296
	34	12.5	6	228	1368
	35	12.5	24	128	3000
	36	12.5	12	128	1536
	37	12.5	2	60	180
	38	16.0	4	183	732
	39	16.0	12	144	1728
	40	16.0	6	149	894
	42	20.0	2	108	216
	43	20.0	2	178	356

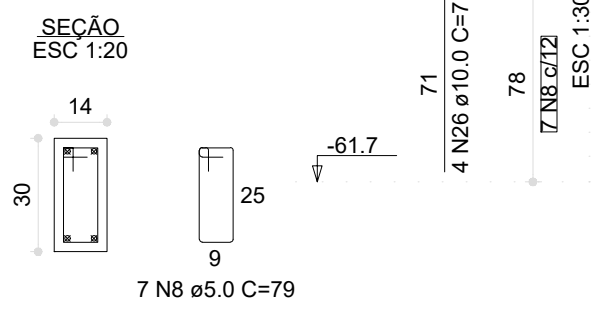
P115=P123

TÉRREO - L1



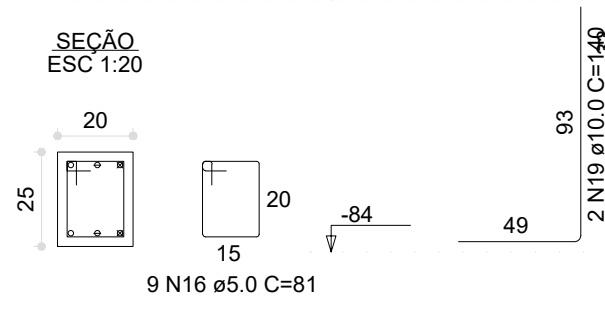
P116

TÉRREO - L1



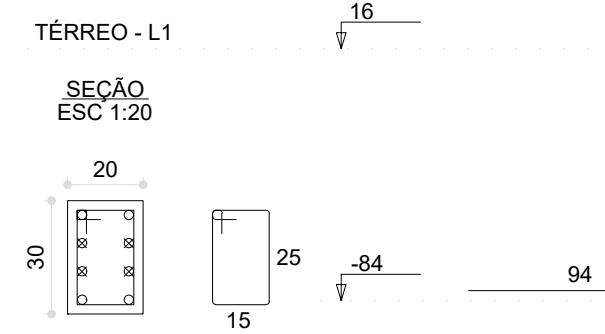
P117=P126

TÉRREO - L1



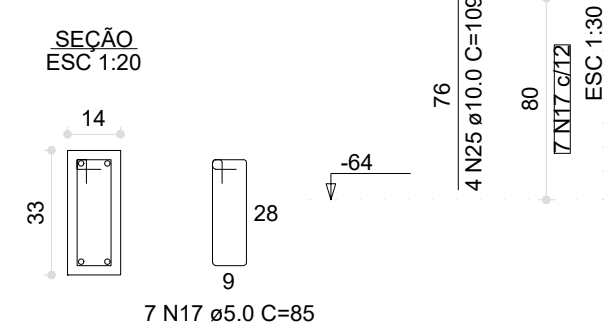
P12

TÉRREO - L1



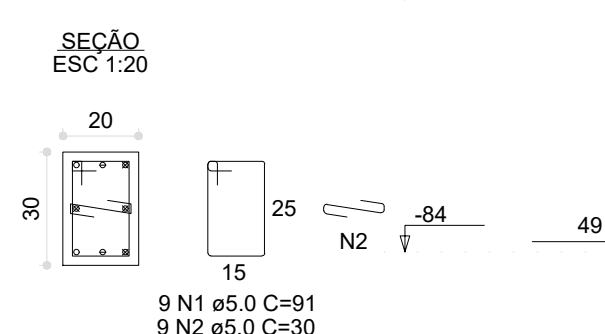
P122

TÉRREO - L1



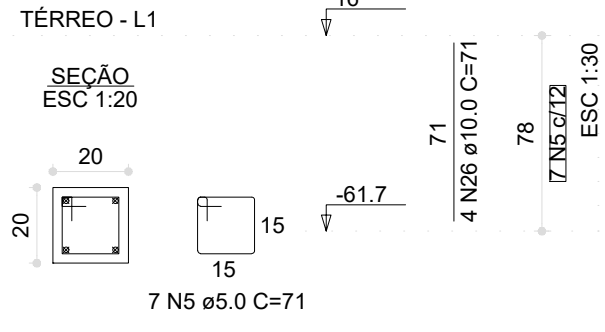
P13

TÉRREO - L1



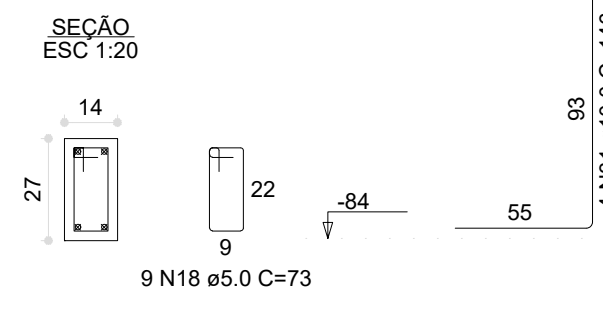
P143=P153=P172=P191=
=P208

TÉRREO - L1



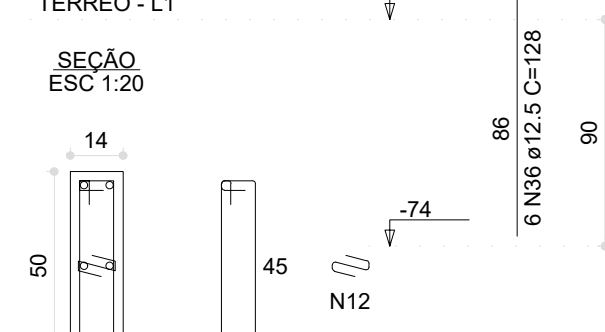
P144

TÉRREO - L1



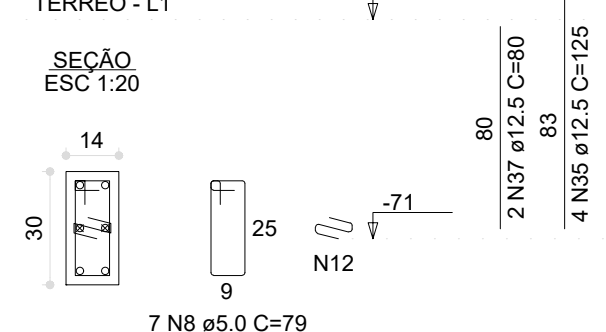
P174=P201

TÉRREO - L1



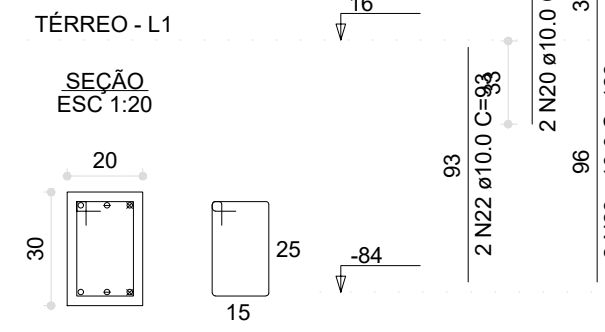
P176

TÉRREO - L1



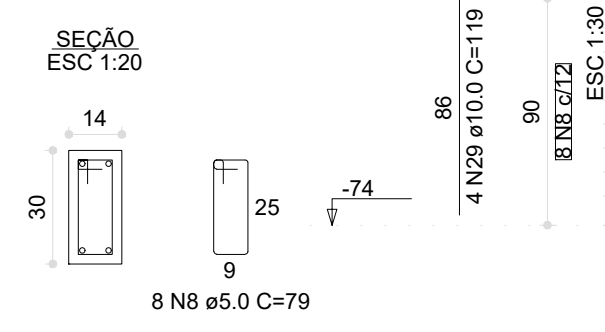
P19=P20=P21=P22

TÉRREO - L1



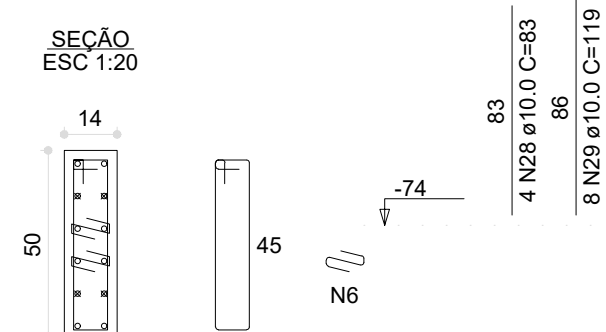
P197

TÉRREO - L1



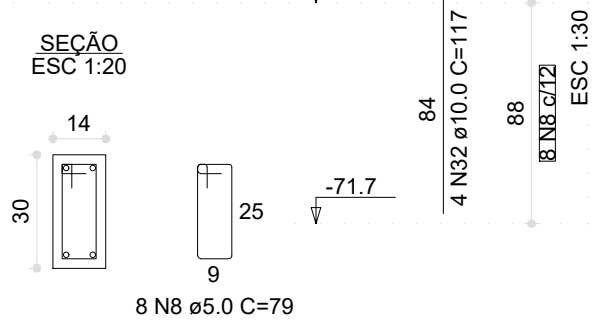
P200

TÉRREO - L1



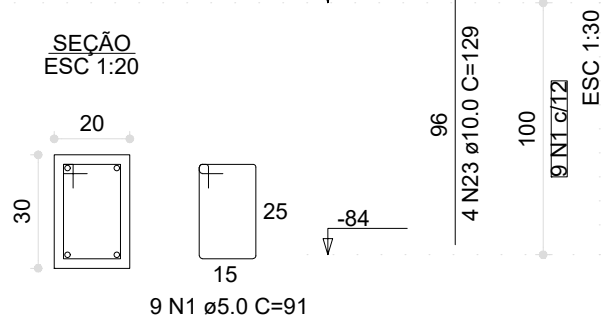
P210

TÉRREO - L1



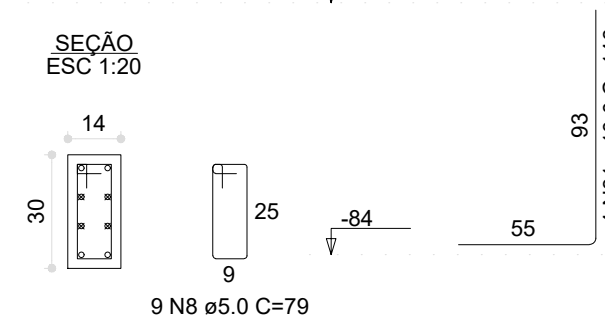
P23

TÉRREO - L1



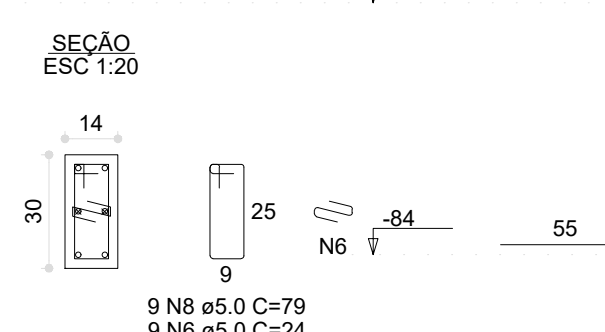
P232

TÉRREO - L1



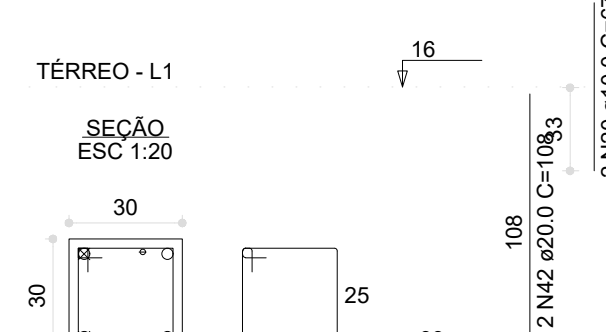
P233

TÉRREO - L1



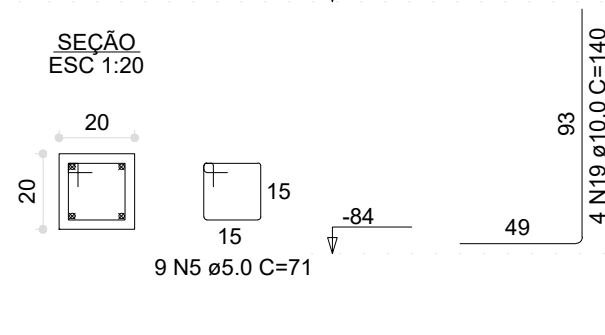
P26

TÉRREO - L1



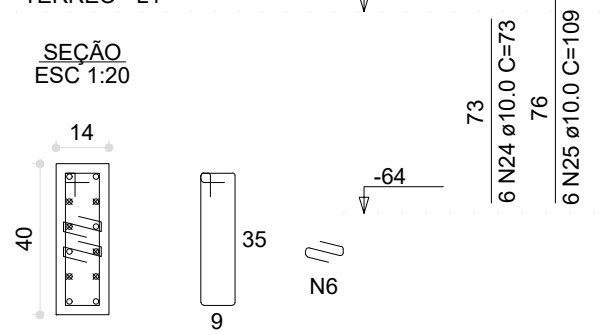
P27=P44=P66=P84=P94

TÉRREO - L1



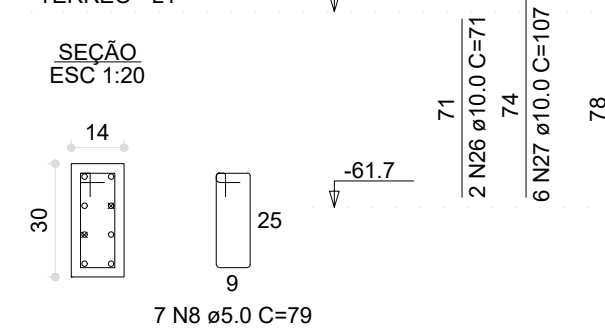
P28

TÉRREO - L1



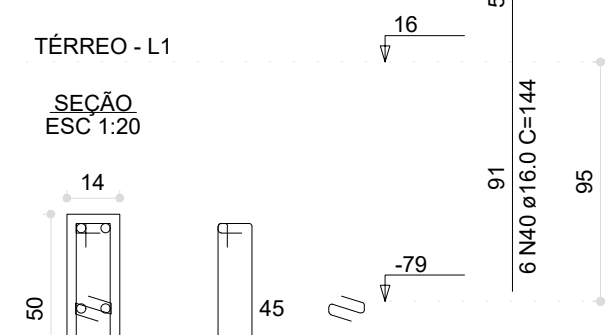
P29=P157

TÉRREO - L1



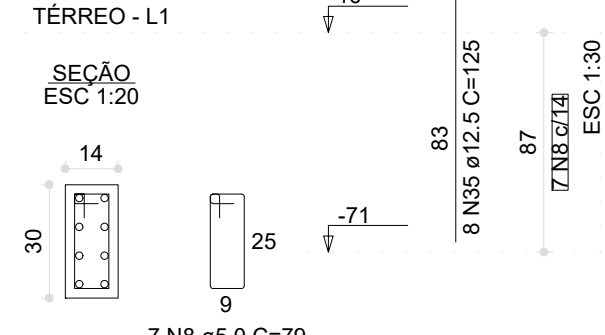
P31=P199

TÉRREO - L1



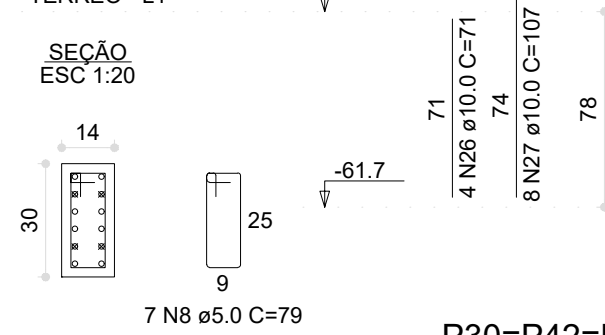
P32

TÉRREO - L1



P33

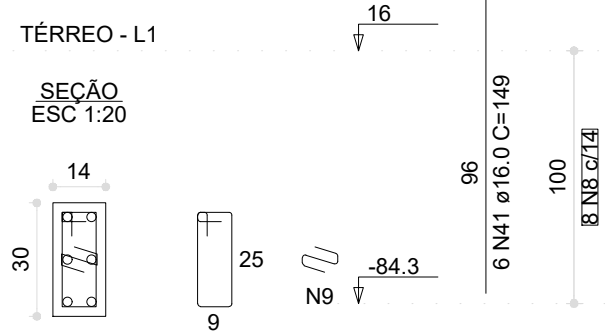
TÉRREO - L1



P30=P42=P45=P46=P48=P49=
=P51=P52=P53=P54=P55=
=P56=P59=P60=P61=P62=
=P63=P64=P69=P70=P71=
=P72=P73=P74=P77=P78=
=P79=P80=P81=P82=P87=
=P89=P90=P91=P92=P96=
=P97=P101=P102=P103=
=P104=P107=P108=P109=
=P113=P119=P120=P121=
=P125=P128=P129=P130=
=P131=P132=P133=P134=
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=P164=P165=P166=P167=
=P168=P170=P171=P177=
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=P184=P185=P187=P188=
=P190=P195=P196=P205=
=P206=P207=P211

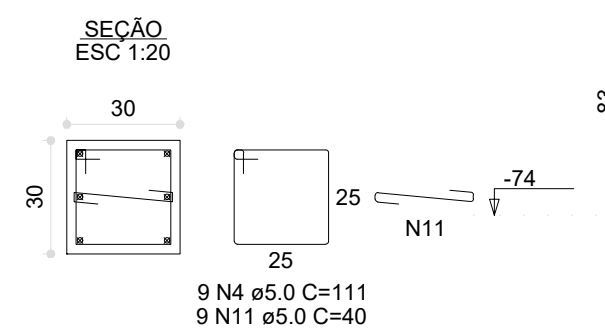
P34

TÉRREO - L1



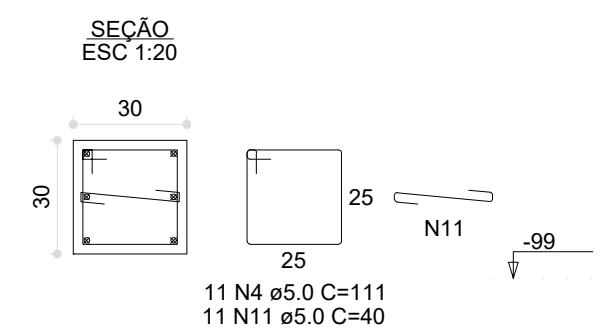
P38=P39

TÉRREO - L1



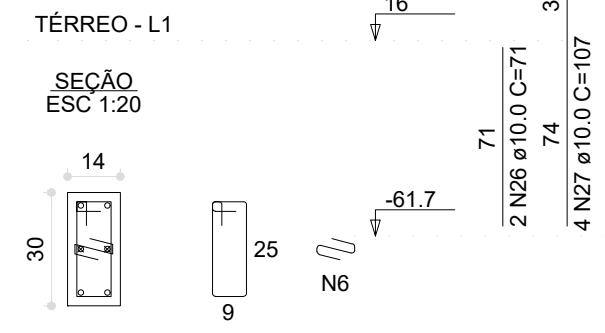
P40

TÉRREO - L1



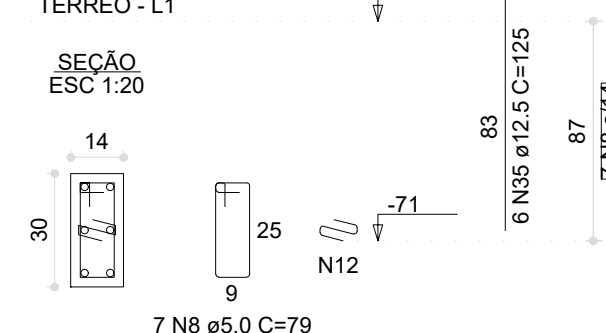
P86=P106=P112=P124

TÉRREO - L1



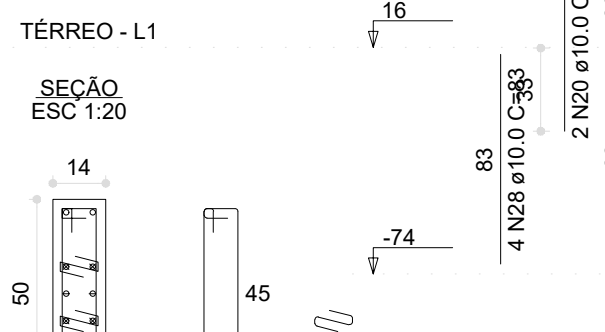
P88=P204

TÉRREO - L1

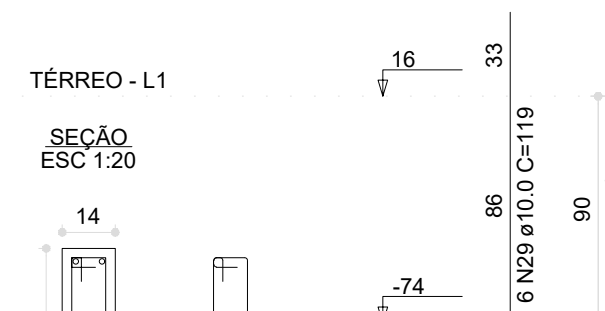


P36=P37=P43

TÉRREO - L1



P41=P50=P57=P58=P65=P68=
=P75=P76=P83=P95=P98=P99=
=P100=P136=P139=P140=P142=
=P155=P162=P163=P169=P181=
=P182=P186=P192=P193=P194=
=P198=P203



RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	1299.2	801
	12.5	60.7	58.5
	16.0	43.1	68
	20.0	5.7	14.1
CA60	5.0	1739.4	268.1
PESO TOTAL (kg)			
CA50		941.6	
CA60		268.1	

Volume de concreto (C-30) = 5.67 m³
Área de forma = 105.06 m²

1

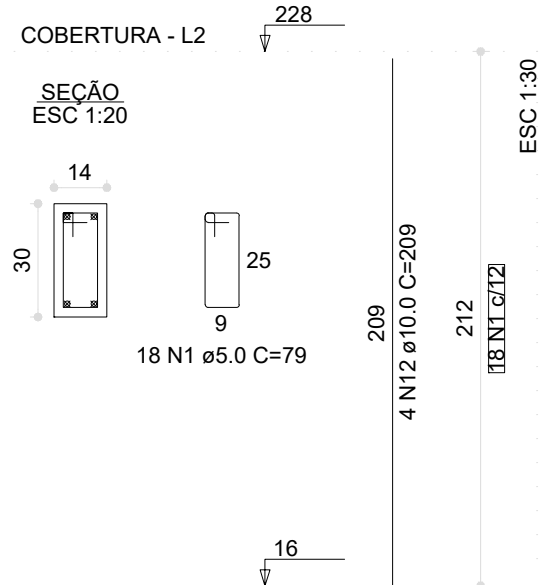
ARMAÇÃO DOS PILARES DO PAVIMENTO TÉRREO
ESCALA INDICADA

03	JANEIRO/ 2023	Revisão geral da disciplina conforme a atualização da arquitetura. Redimensionamento dos elementos estruturais e acréscimo de elementos para adequação da arquitetura. Atendimento a NBR 6118/2014 e NBR 6122/2019.
02	JANEIRO/ 2017	Atendimento a NBR 9050/2015; Alteração: quadro de áreas, fechamento frontal, sanitários 1 e 2, altura da platibanda, mobiliário e equipamento, altura da cerâmica nos sanitários, cor dos portões dos solários e altura da porta PA4; Acréscimo: gradil e quadro de cargas no castelo d'água, de duchas higienicas e escaninhos pré-escola.
01	JULHO/ 2016	Alteração paredes - shaft para tubulação hidráulica e detalhamento; alteração da altura da platibanda.
Nº	DATA	DESCRIÇÃO

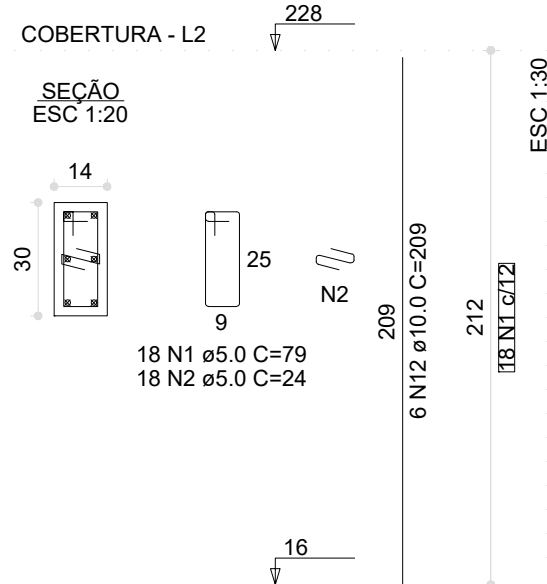
CONTROLE DE REVISÕES

FNDE MINISTÉRIO DA
EDUCAÇÃO

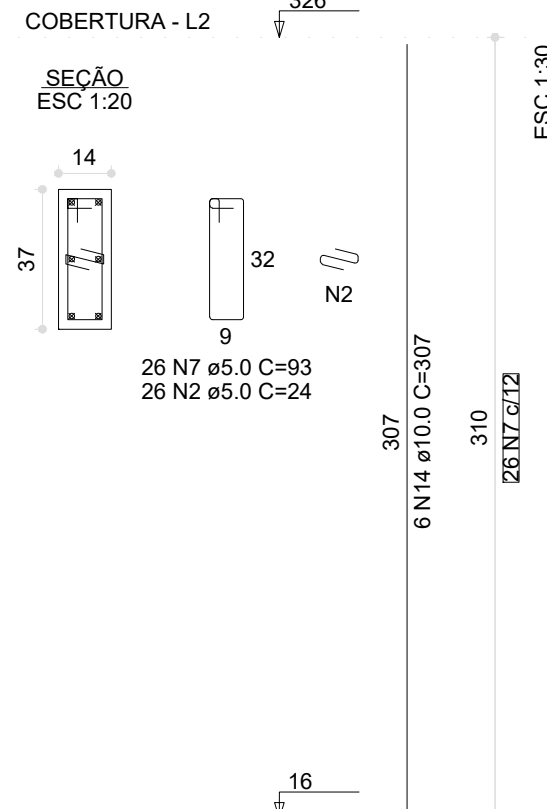
P1=P2=P3=P4=P5=P6=P7=P8=
=P9=P14=P15=P16=P17=P18=
=P19=P26=P85=P93=P111=
=P118=P127=P148=P209=P210=
=P211=P212=P220=P221=P222=
=P223=P224=P232=P233=P234



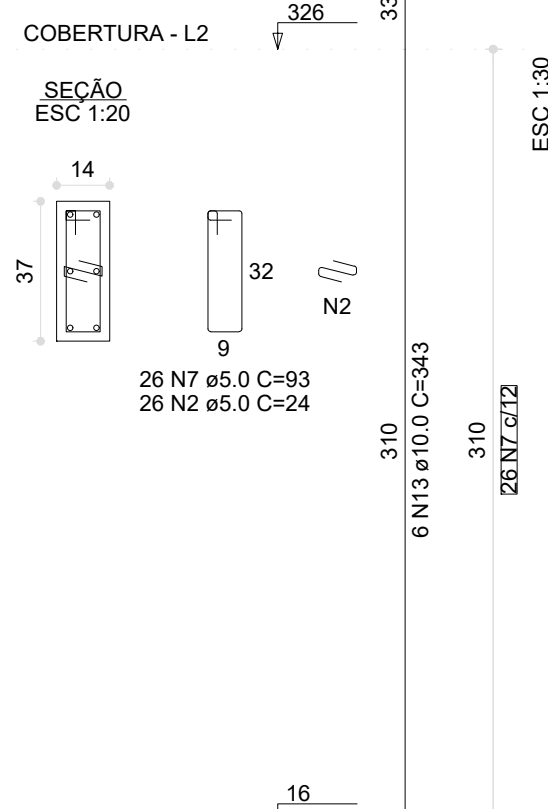
P10=P11=P25



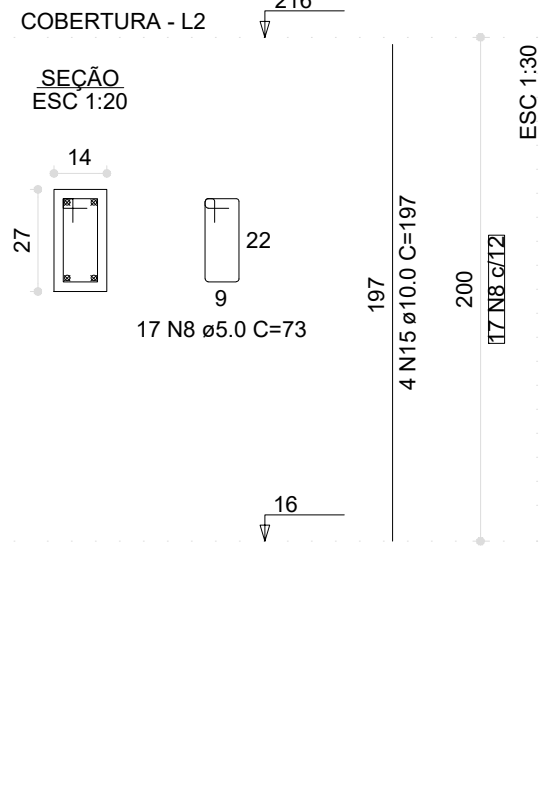
P105



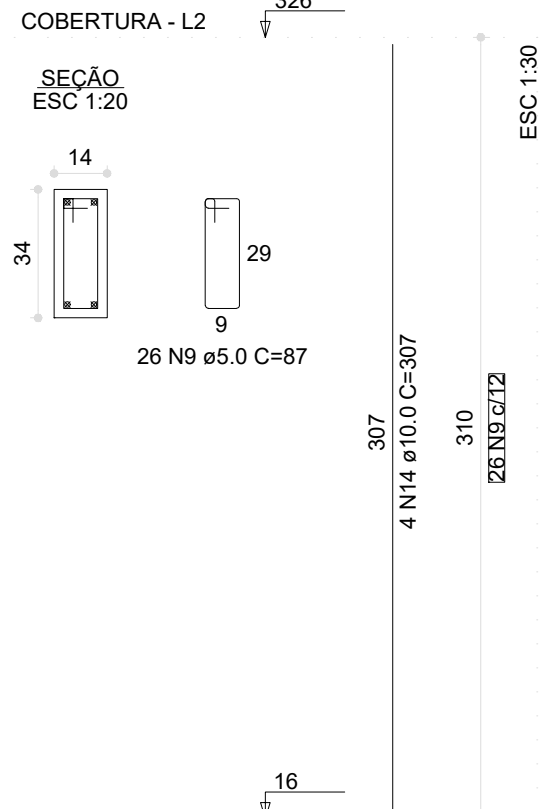
P110



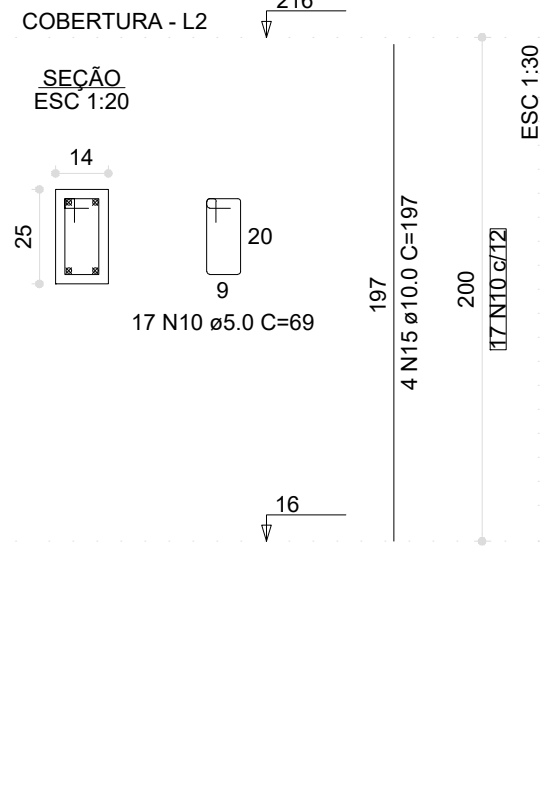
P114



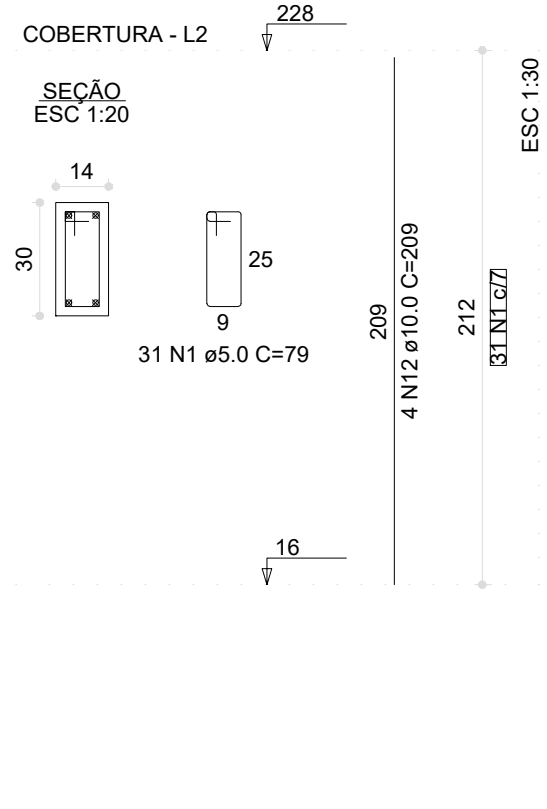
P115=P123



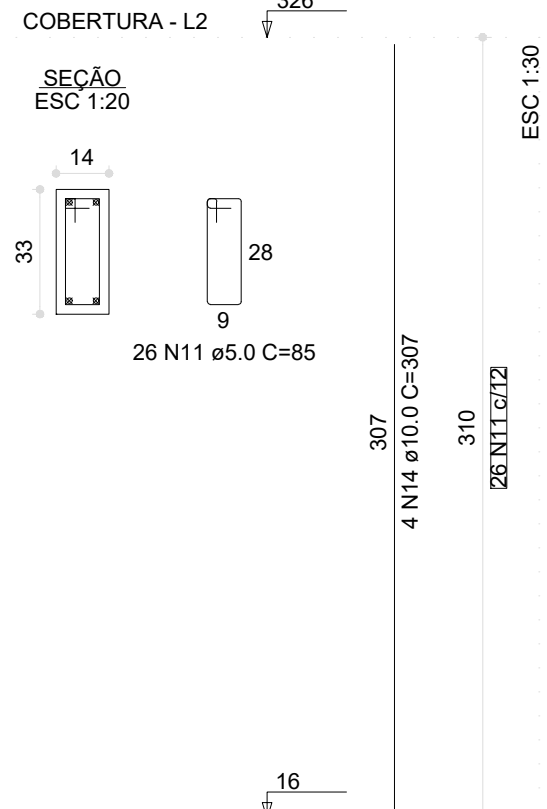
P117=P126



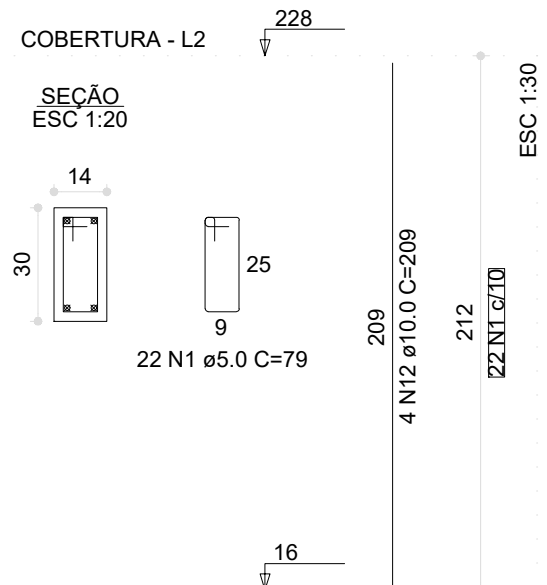
P12=P35=P47=P189=P226



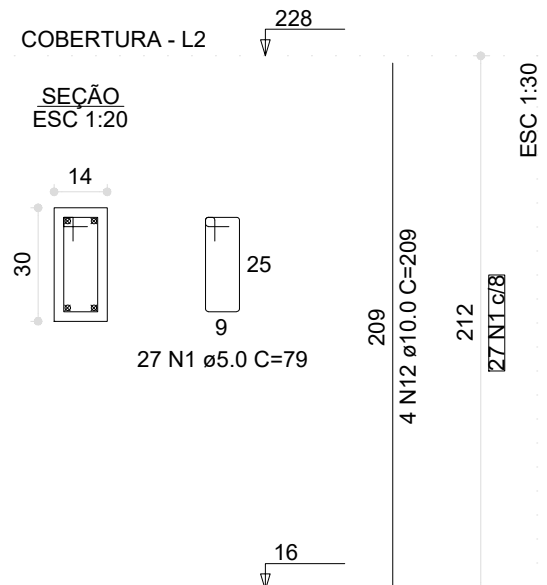
P122



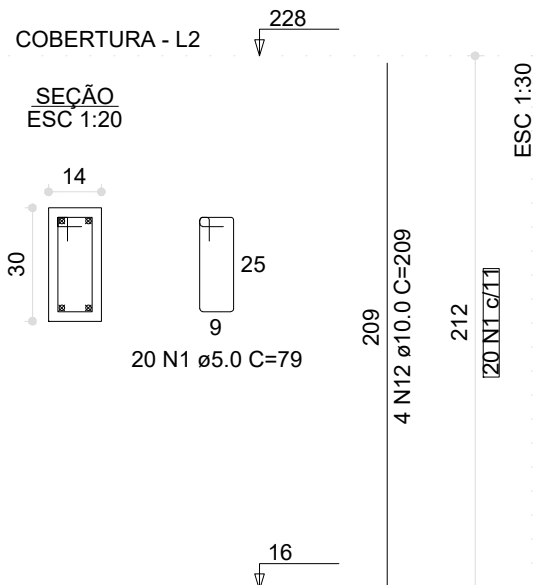
P13=P154=P225



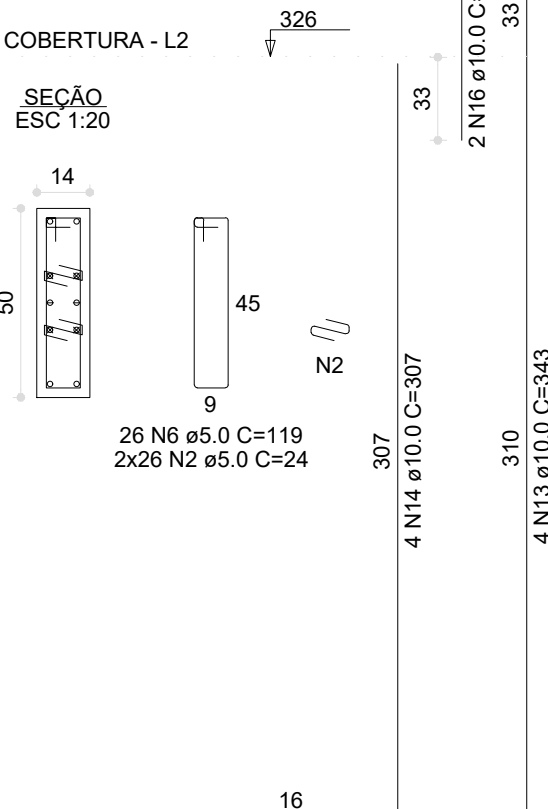
P173=P202=P218



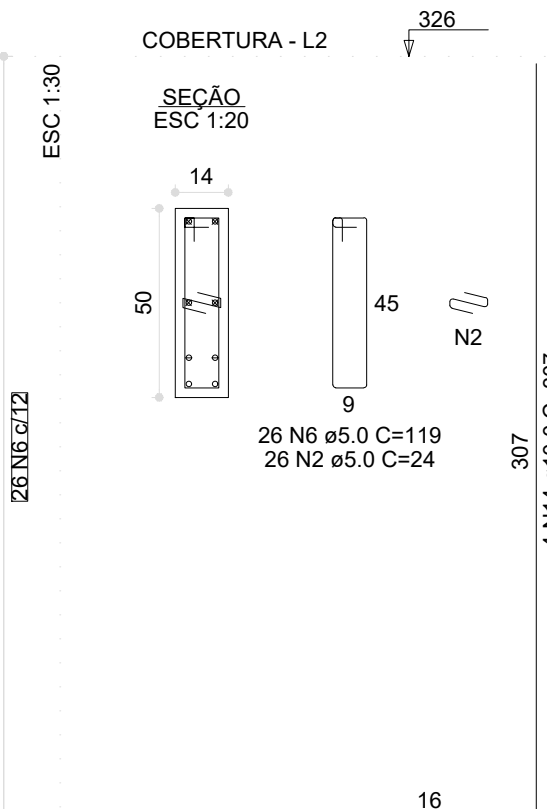
P20=P22=P219



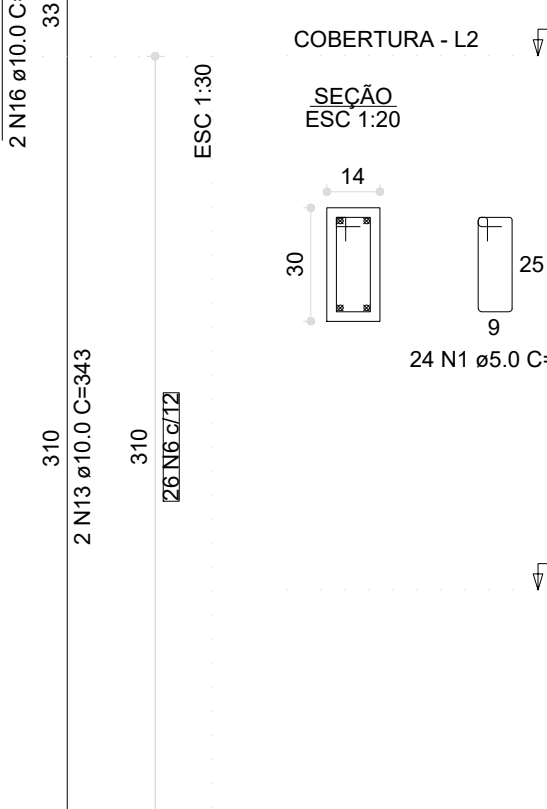
P200



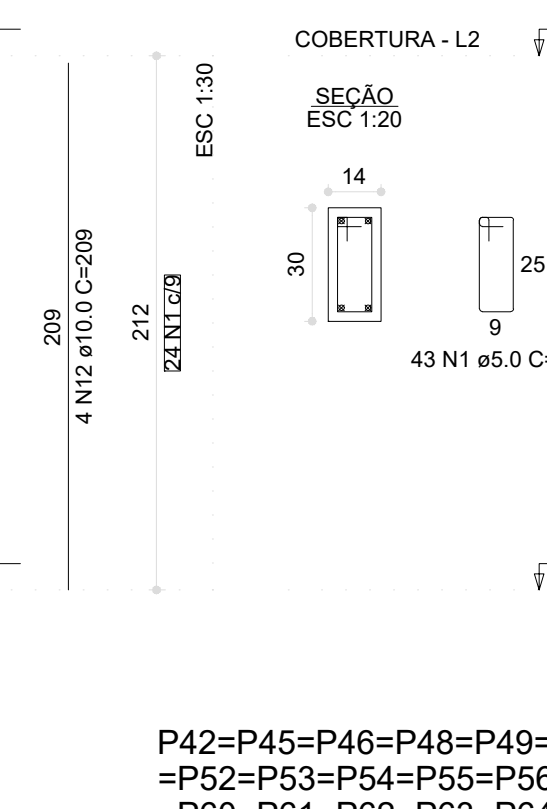
P201



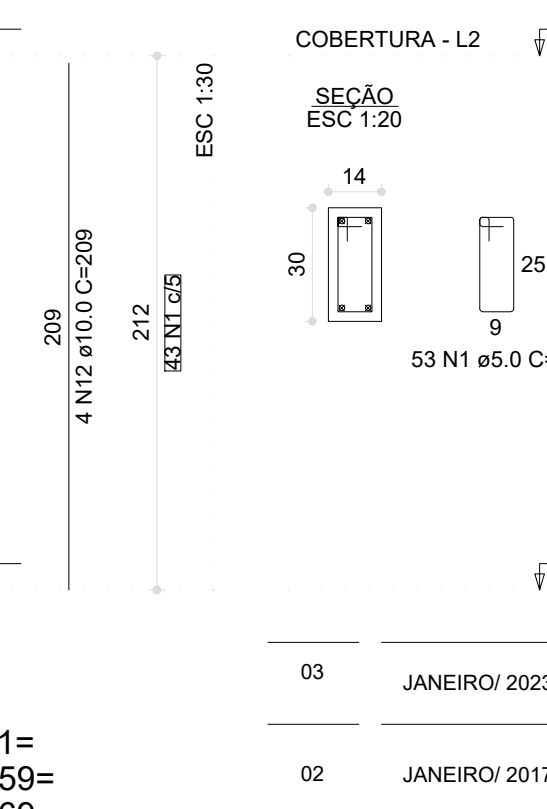
P21=P24=P67



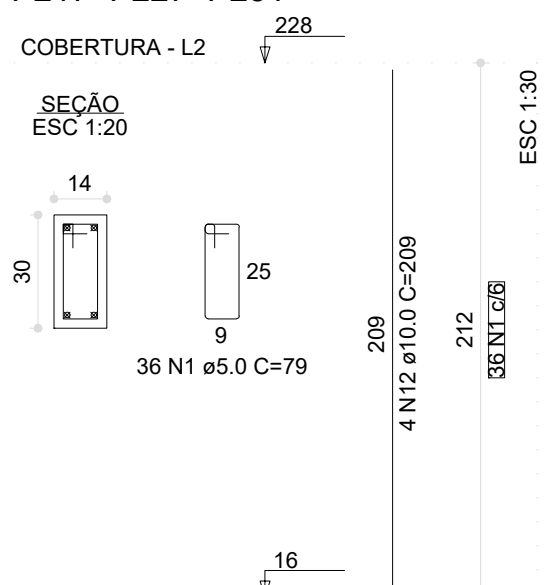
P213=P216=P228



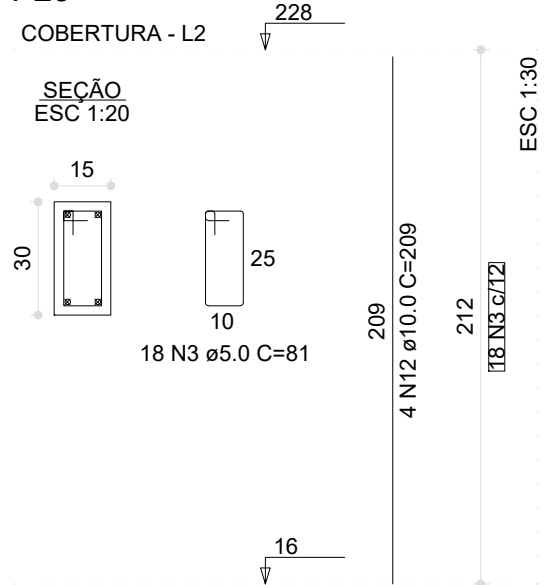
P214=P215=P229=P230



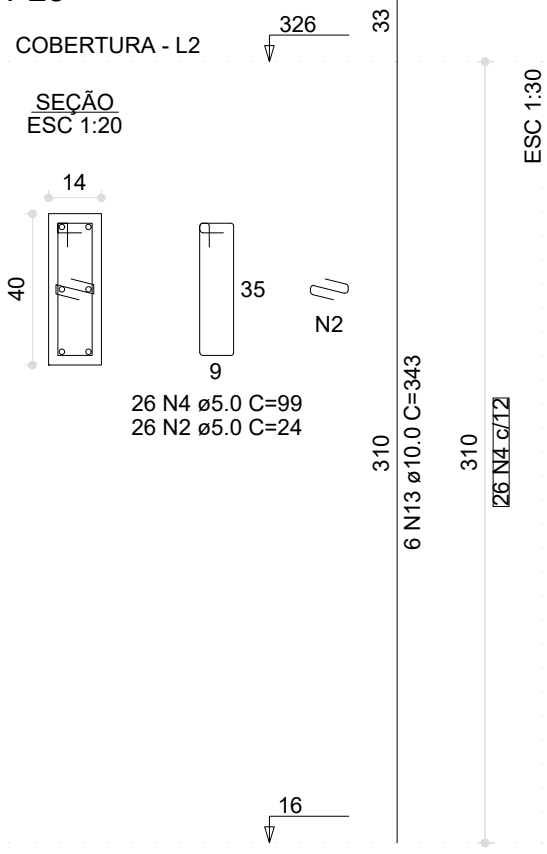
P217=P227=P231



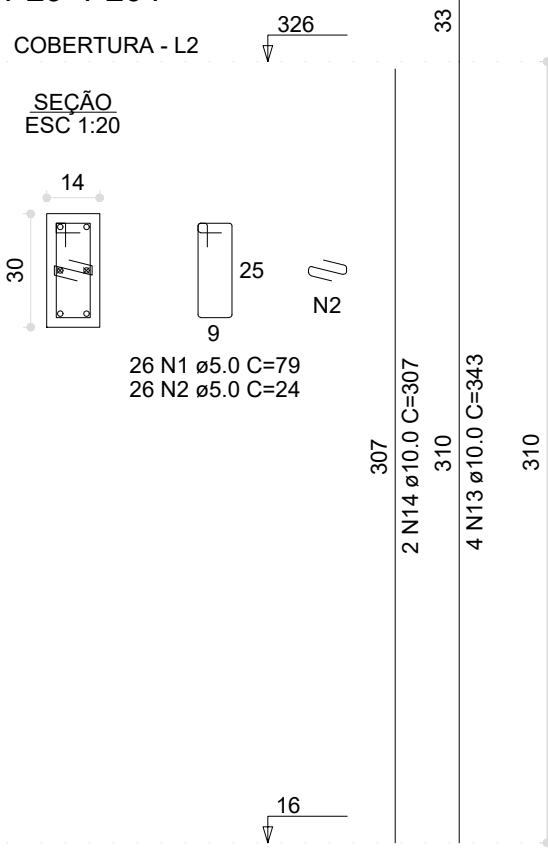
P23



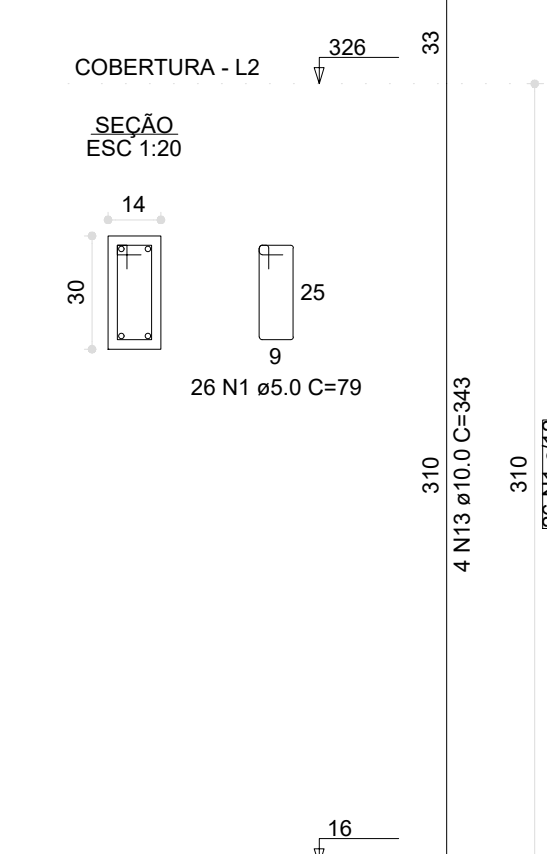
P28



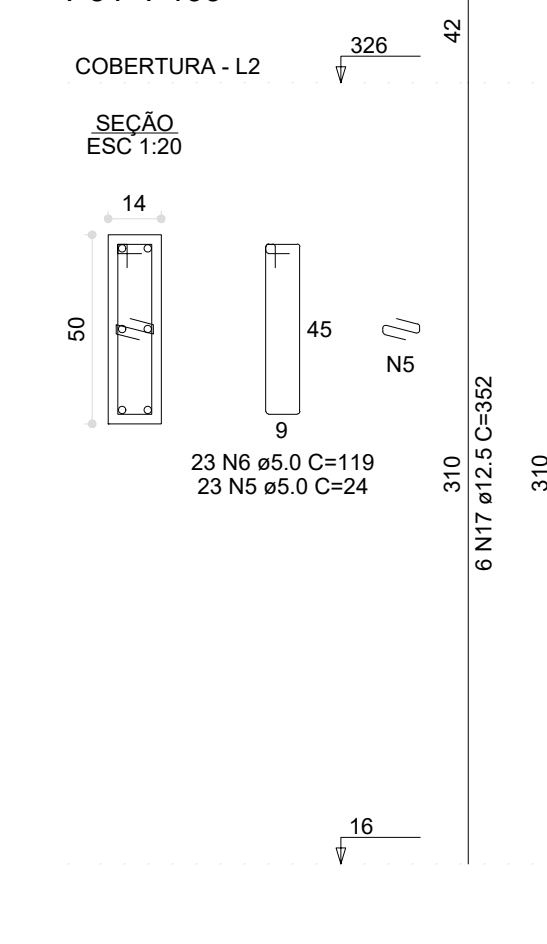
P29=P204



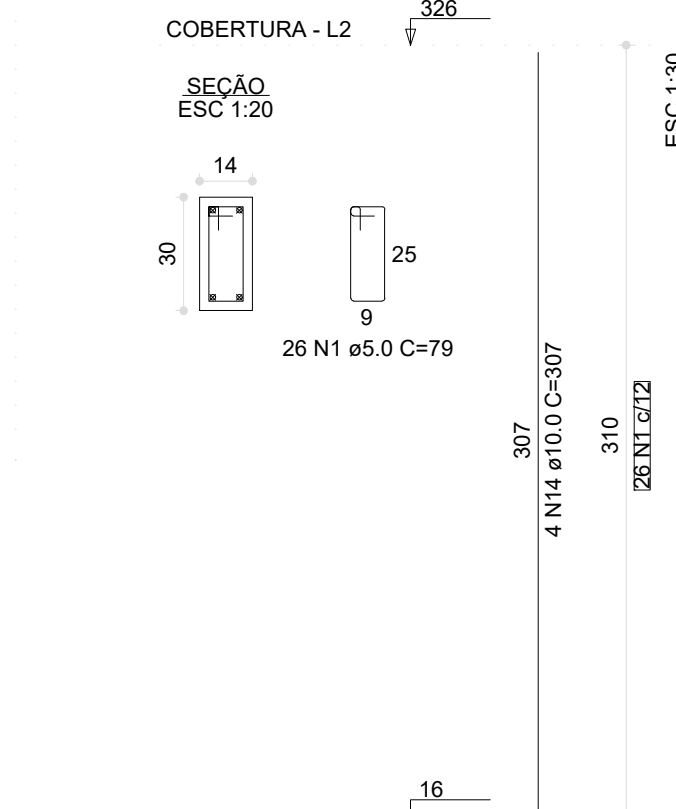
P30=P96=P97=P112=P119=
=P124=P135=P137=P138=P205=
=P207



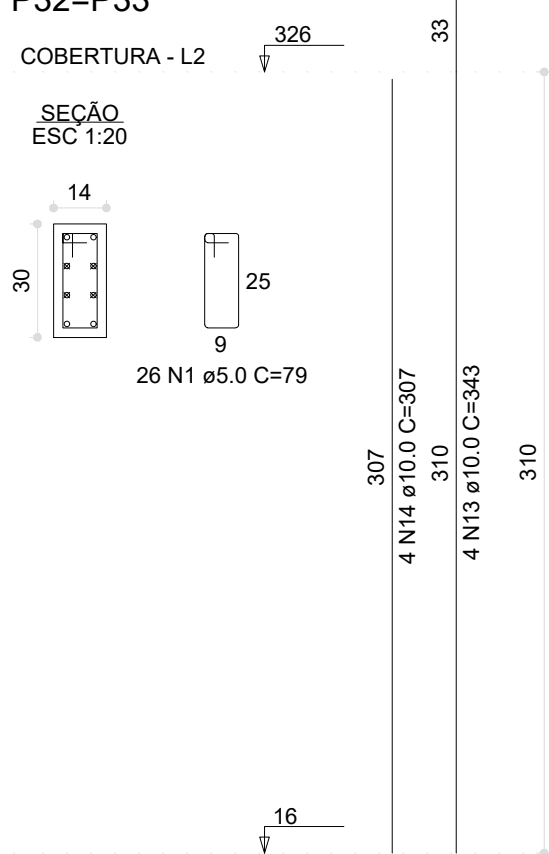
P31=P199



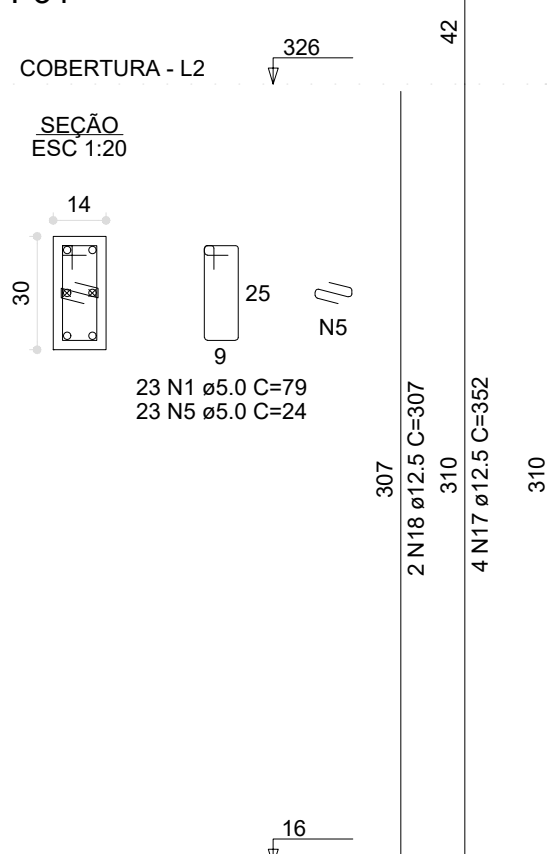
P42=P45=P46=P48=P49=P51=
=P52=P53=P54=P55=P56=P59=
=P60=P61=P62=P63=P64=P69=
=P70=P71=P72=P73=P74=P77=
=P78=P79=P80=P81=P82=P86=
=P87=P89=P90=P91=P92=P101=
=P102=P103=P104=P106=P107=
=P108=P109=P113=P120=P121=
=P125=P128=P129=P130=P131=
=P132=P133=P134=P141=P145=
=P146=P147=P149=P150=P151=
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=P168=P170=P171=P176=P177=
=P178=P179=P180=P183=P184=
=P185=P187=P188=P190=P195=
=P196=P197=P206



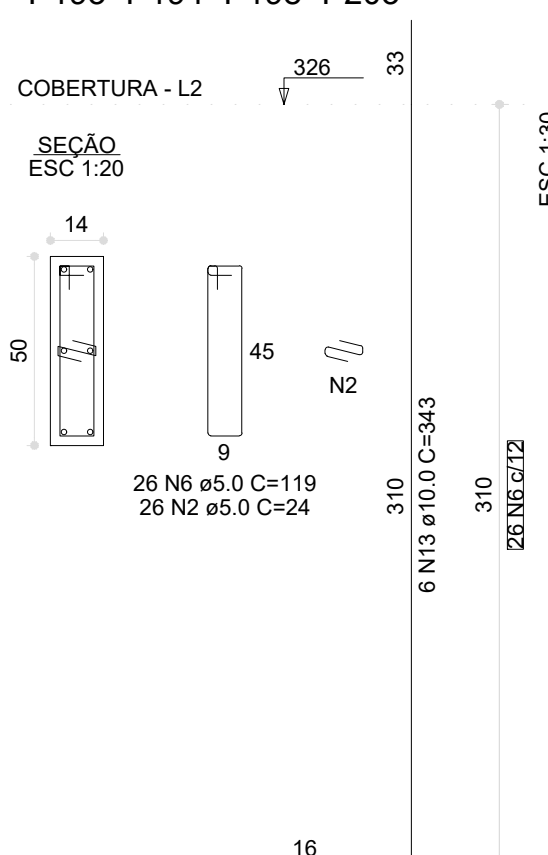
P32=P33



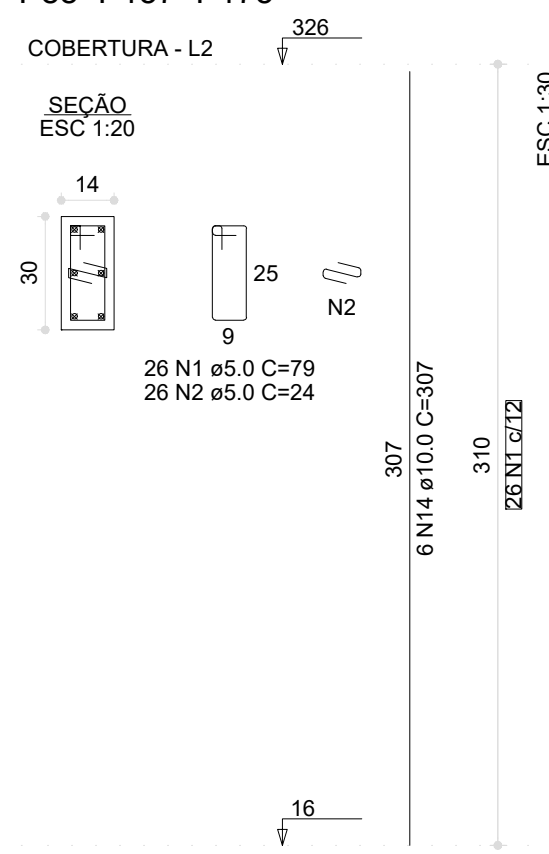
P34



P36=P37=P41=P43=P50=P57=P58=
=P65=P68=P75=P76=P83=P95=P98=
=P99=P100=P136=P139=P140=
=P142=P155=P162=P163=P169=
=P174=P181=P182=P186=P192=
=P193=P194=P198=P203



P88=P157=P175



RELAÇÃO DO AÇO				
AÇO	N	DIAM (mm)	QUANT	C UNIT (cm)
CA80	1	5.0	4354	79
	2	5.0	1198	24
	3	5.0	18	61
	4	5.0	26	99
	5	5.0	69	24
	6	5.0	96	119
	7	5.0	52	93
	8	5.0	17	73
	9	5.0	52	87
	10	5.0	34	69
	11	5.0	26	85
	12	10.0	266	209
	13	10.0	276	343
	14	10.0	412	307
	15	10.0	12	197
	16	10.0	4	67
	17	12.5	16	352
	18	12.5	2	307
CA50	1	5.0	1198	24
	2	5.0	18	61
	3	5.0	26	99
	4	5.0	69	24
	5	5.0	96	119
	6	5.0	52	93
	7	5.0	17	73
	8	5.0	52	87
	9	5.0	34	69
	10	5.0	26	85
	11	10.0	266	209
	12	10.0	276	343
	13	10.0	412	307
	14	10.0	12	197
	15	10.0	4	67
	16	12.5	16	352
	17	12.5	2	307

AÇO	DIAM (mm)	C TOTAL (m)	PESO + 0% (kg)
CA50	10.0	2793.8	1722.5
	12.5	62.5	60.2
CA80	5.0	5073.3	782
PESO TOTAL (kg)			
CA50		1782.6	
CA80		782	

Volume de concreto (C-30) = 29.03 m³
Área de forma = 586.04 m²

03	JANEIRO/ 2023	Revisão geral da disciplina conforme a atualização da arquitetura. Redimensionamento dos elementos estruturais e acréscimo de elementos para adequação da arquitetura. Atendimento a NBR 6118/2014 e NBR 6122/2019.
02	JANEIRO/ 2017	Atendimento à NBR 9050/2015; Alteração: quadro de áreas, fechamento frontal, sanitários 1 e 2, altura da platibanda, mobiliário e equipamento, altura da cerâmica nos sanitários, cor dos portões dos solaris e altura da porta PA4; Acréscimo: gradil e quadro de cargas no castelo d'água, de duchas higienicas e escaninhos pré-escola.
01	JULHO/ 2016	Alteração paredes - shaft para tubulação hidráulica e detalhamento; alteração da altura da platibanda.
Nº	DATA	DESCRIÇÃO

CONTROLE DE REVISÕES			
FNEDE MINISTÉRIO DA EDUCAÇÃO			
PROJETO PADRÃO - FNDE			
PROPRIETÁRIO:			
ENDEREÇO:			
MUNICÍPIO - UF:			
PROPRIETÁRIO:			
RESP. TÉCNICO:	CAU / CREA		
AUTOR DO PROJETO:	CAU / CREA		
APROVAÇÕES	CAU / CREA		
OBSERVAÇÕES:	PREFEITURA / RA		
CRECHE PRÉ-ESCOLA TIPO 1			
PROJETO DE ESTRUTURA DE CONCRETO			
COORDENAÇÃO CGEST - Coordenação Gereral de Infraestrutura Educacional	DETALHAMENTO ARMAÇÃO DOS PILARES PAVIMENTO COBERTURA	SCO	
FORMATO (841x594)	REVISÃO R.00 R.03 R.01 R.02	ESCALA 1:20 / 1:30 DATA EMISSÃO JAN/2023	FRANCHA 29/33