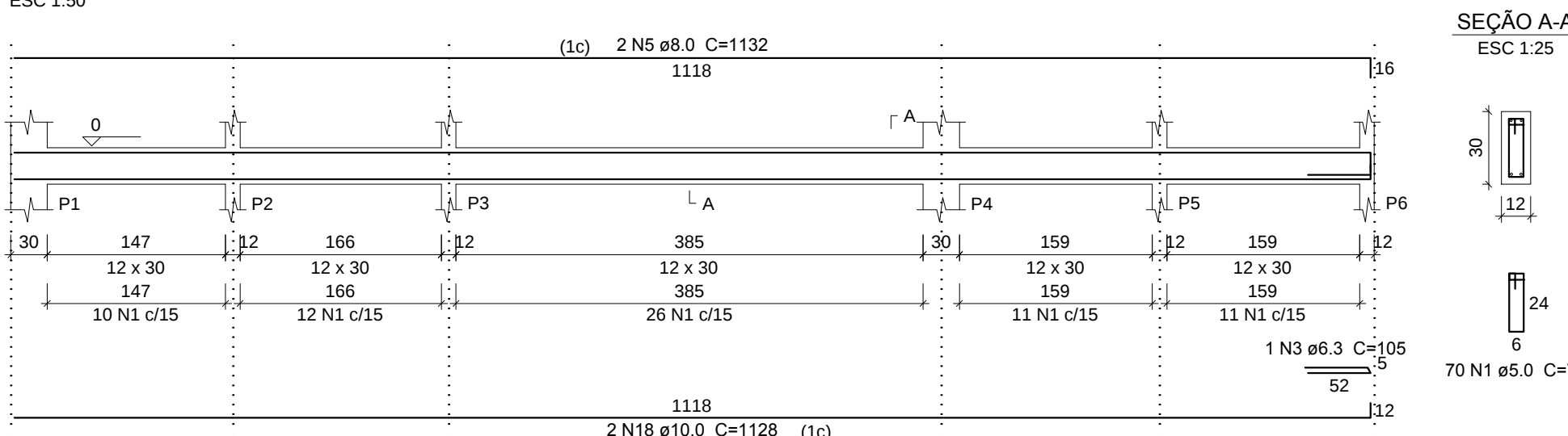
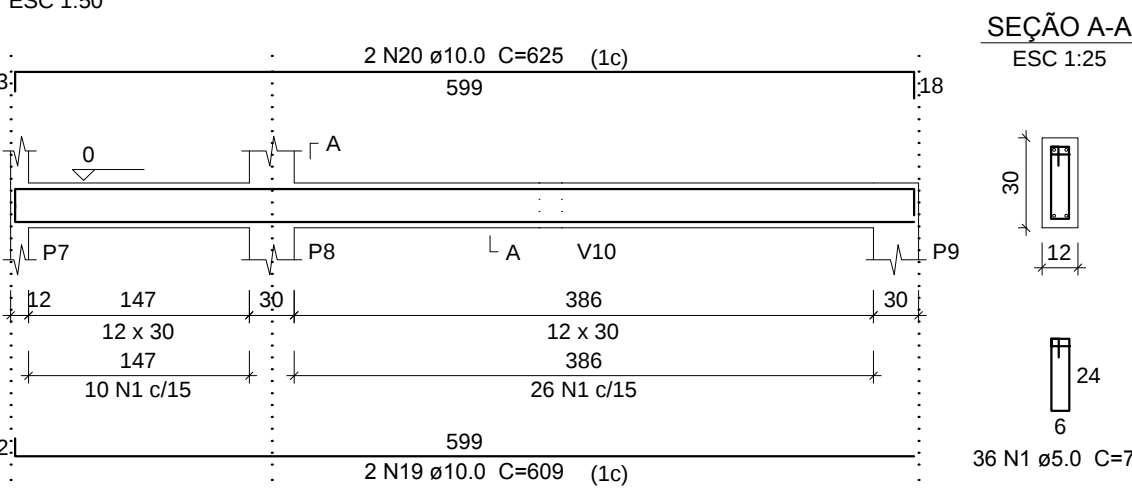


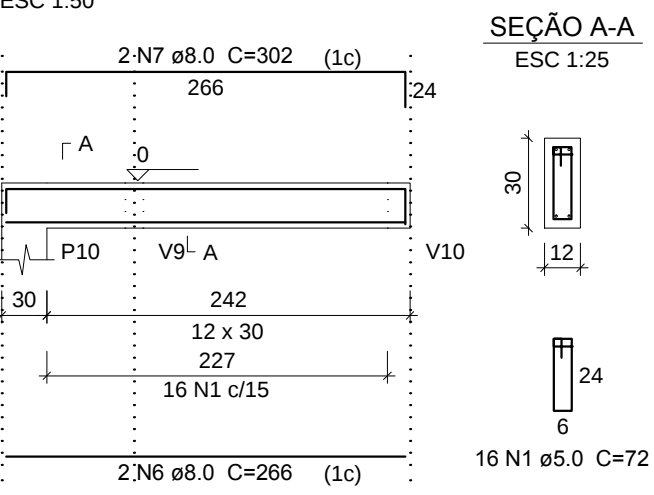
V1 (12 x 30)



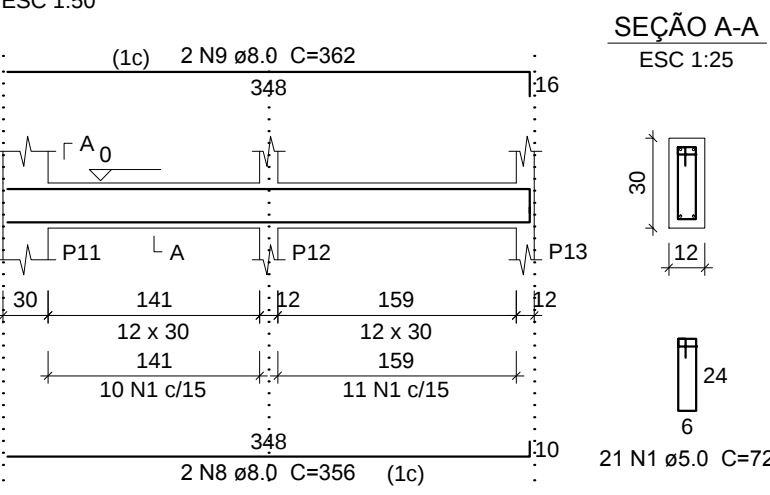
V2 (12 x 30)



V3 (12 x 30)



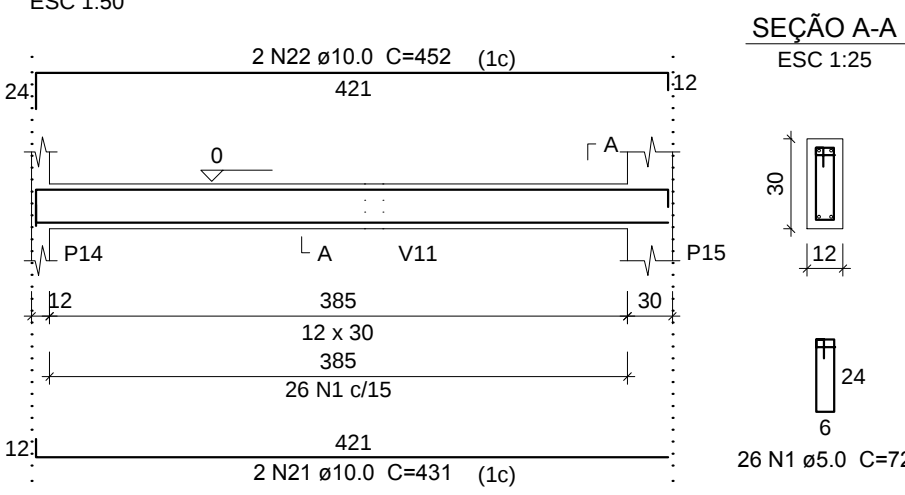
V4 (12 x 30)



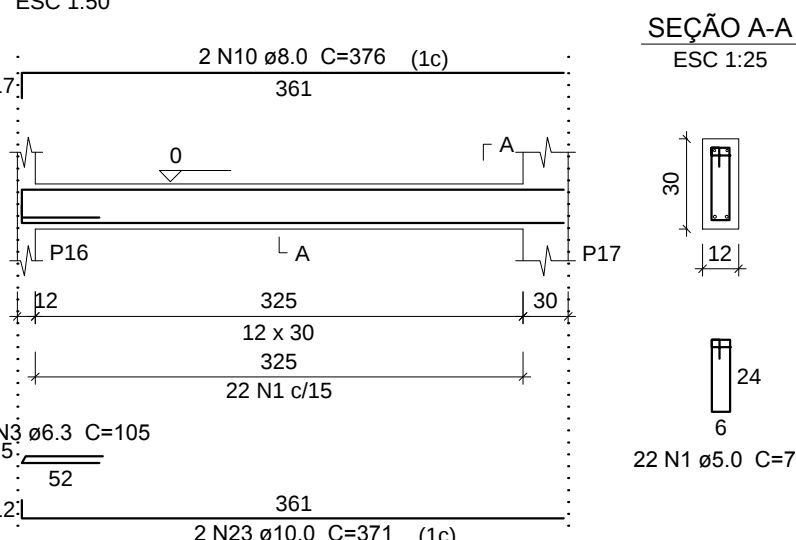
Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
V1	1	5.0	424	72	30528
V4	2	5.0	67	78	5226
V7	3	6.3	4	105	420
V10	4	6.3	1	103	103
V13	5	8.0	2	1132	2264
	6	8.0	2	266	532
	7	8.0	2	302	604
	8	8.0	2	356	712
	9	8.0	2	362	724
	10	8.0	2	376	752
	11	8.0	2	334	668
	12	8.0	2	348	696
	13	8.0	2	429	858
	14	8.0	2	443	886
	15	8.0	2	592	1184
	16	8.0	2	604	1208
	17	8.0	4	321	1284
	18	10.0	2	1128	2256
	19	10.0	2	609	1218
	20	10.0	2	625	1250
	21	10.0	2	431	862
	22	10.0	2	452	904
	23	10.0	2	371	742
	24	10.0	2	541	1082
	25	10.0	1	127	127
	26	10.0	2	560	1120
	27	10.0	4	801	3204
	28	10.0	1	185	185
	29	10.0	2	811	1622
	30	10.0	2	1001	2002
	31	10.0	2	810	1620
	32	12.5	2	991	1982

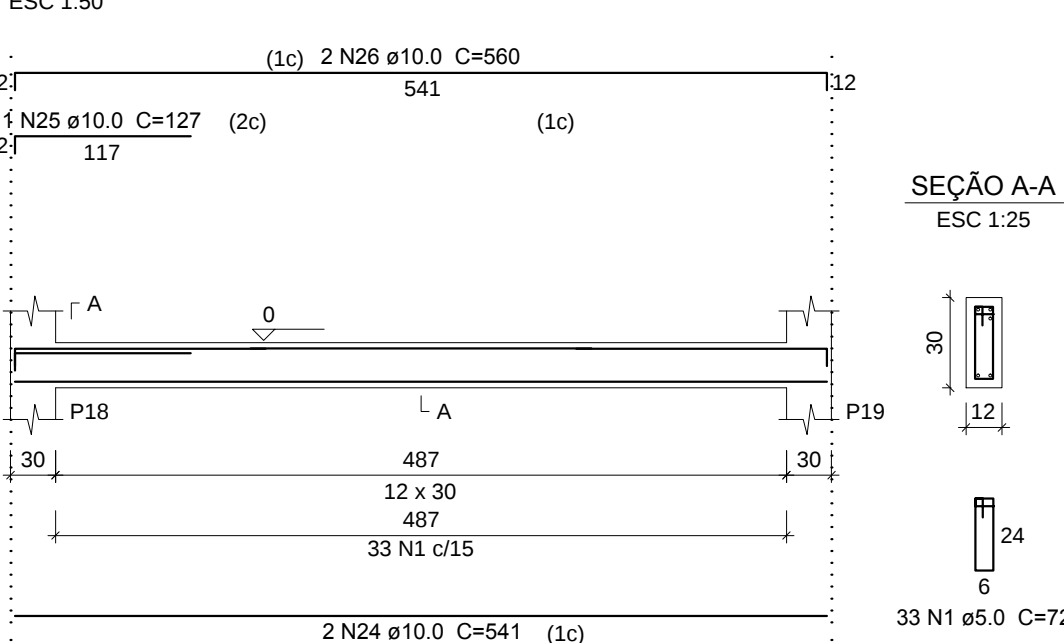
V5 (12 x 30)



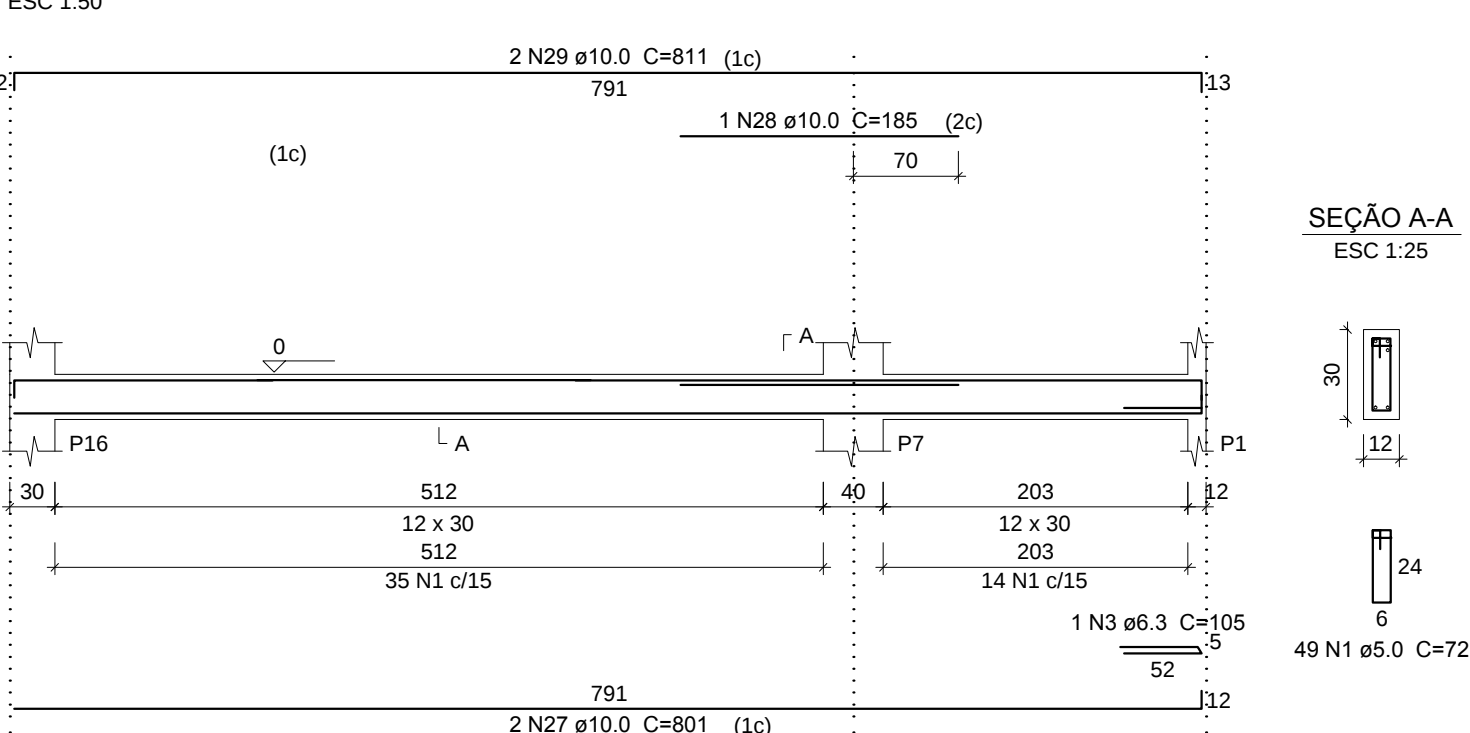
V6 (12 x 30)



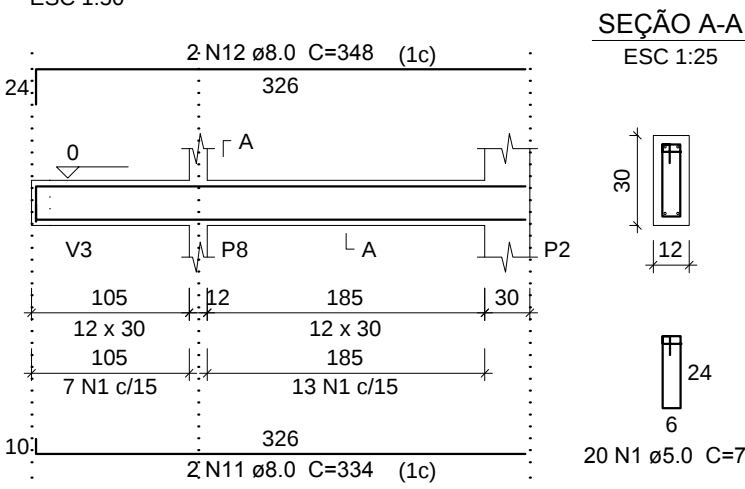
V7 (12 x 30)



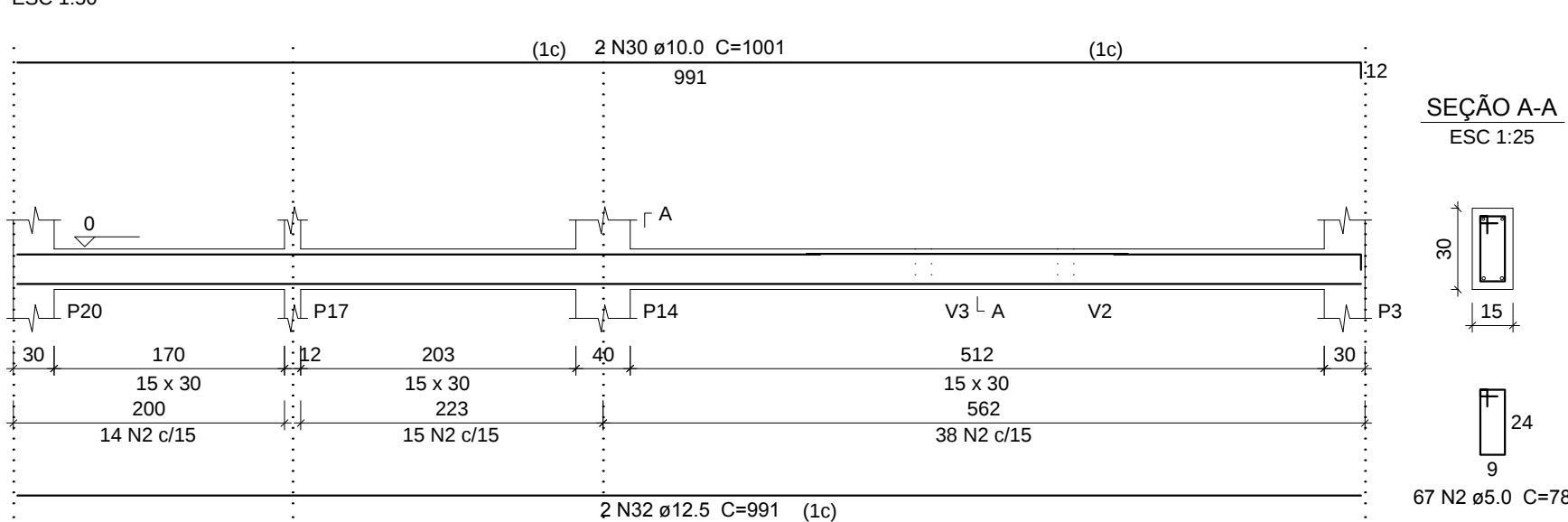
V8 (12 x 30)



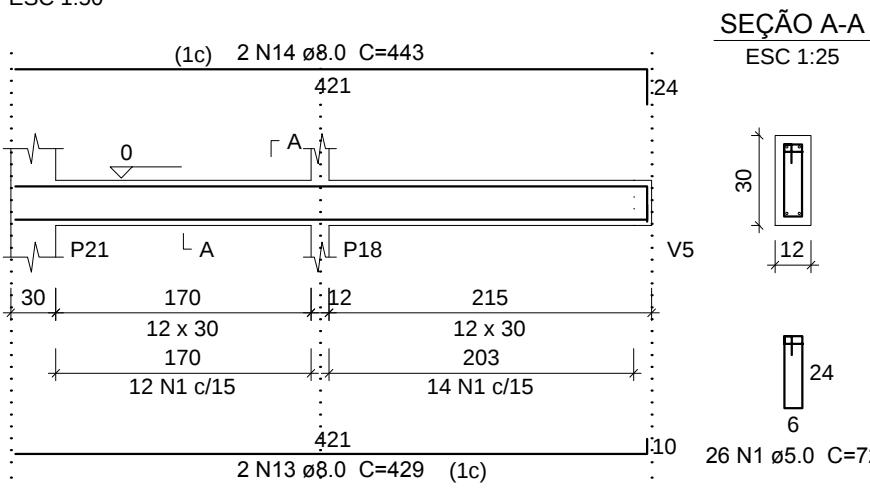
V9 (12 x 30)



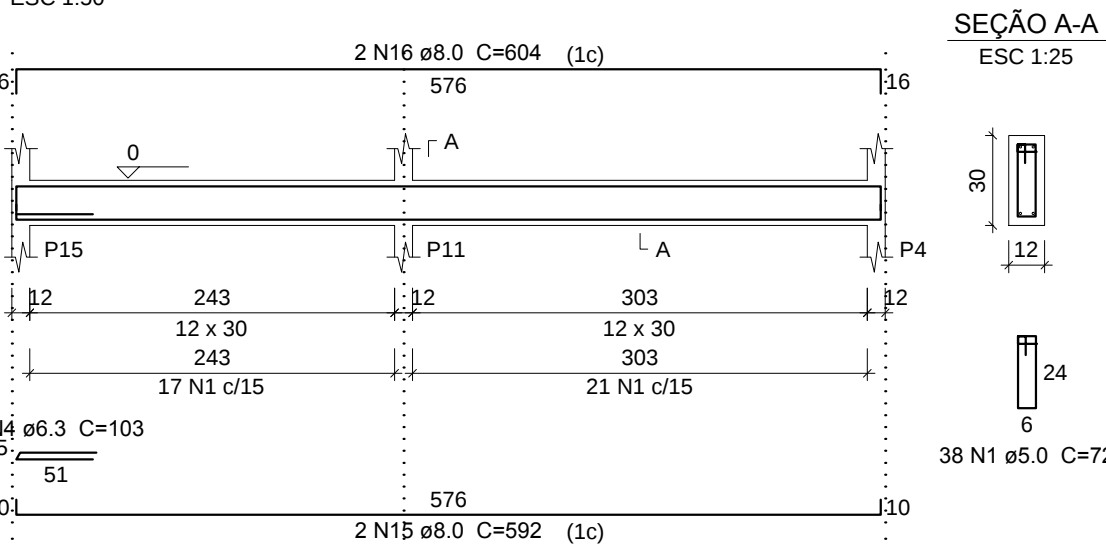
V10 (15 x 30)



V11 (12 x 30)



V12 (12 x 30)

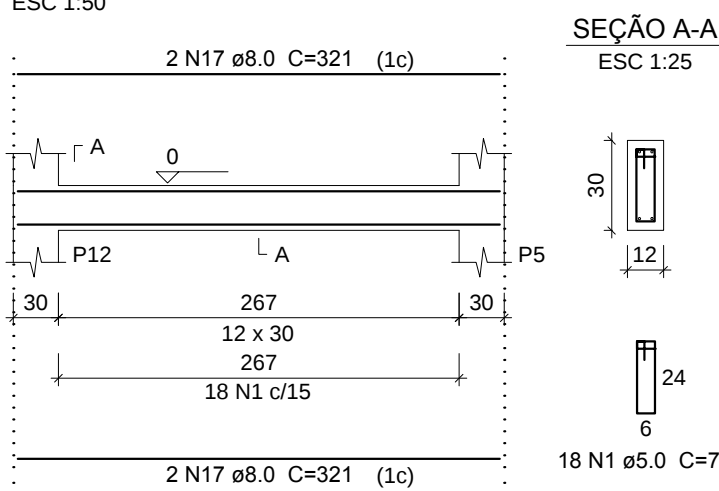


Resumo do aço

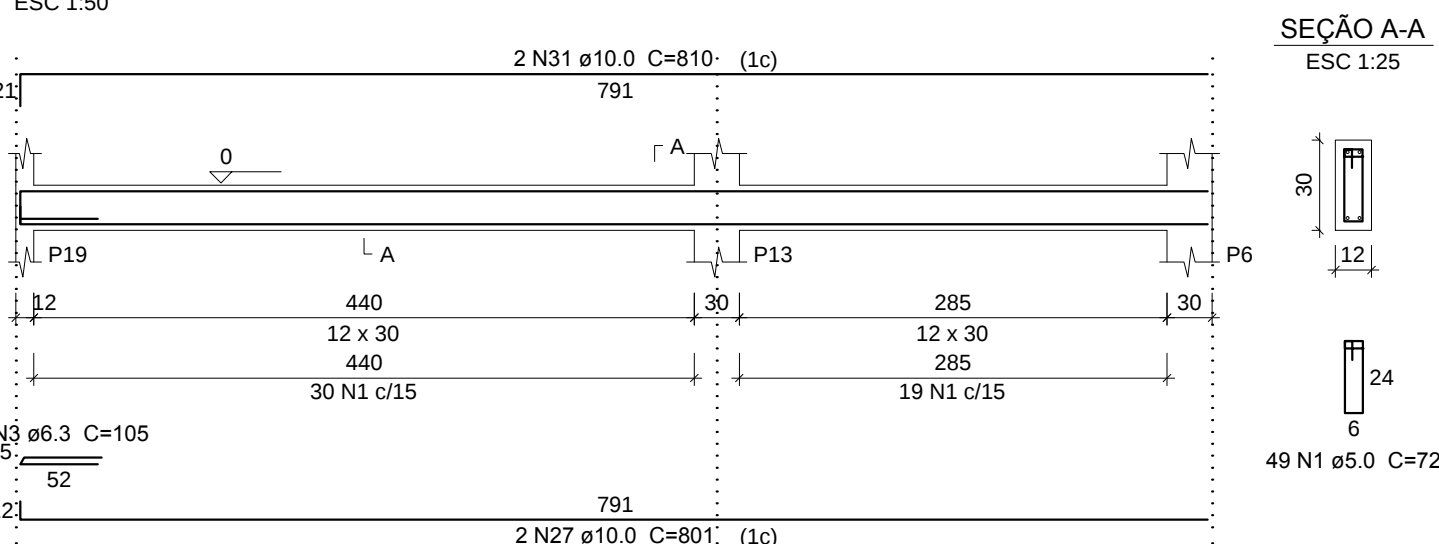
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	5.3	1.4
	8.0	123.8	50.76
	10.0	182	109.20
CA60	5.0	357.6	55.07

Volume de concreto (C-25) = 2.95 m³
Área de forma = 57.58 m²

V13 (12 x 30)

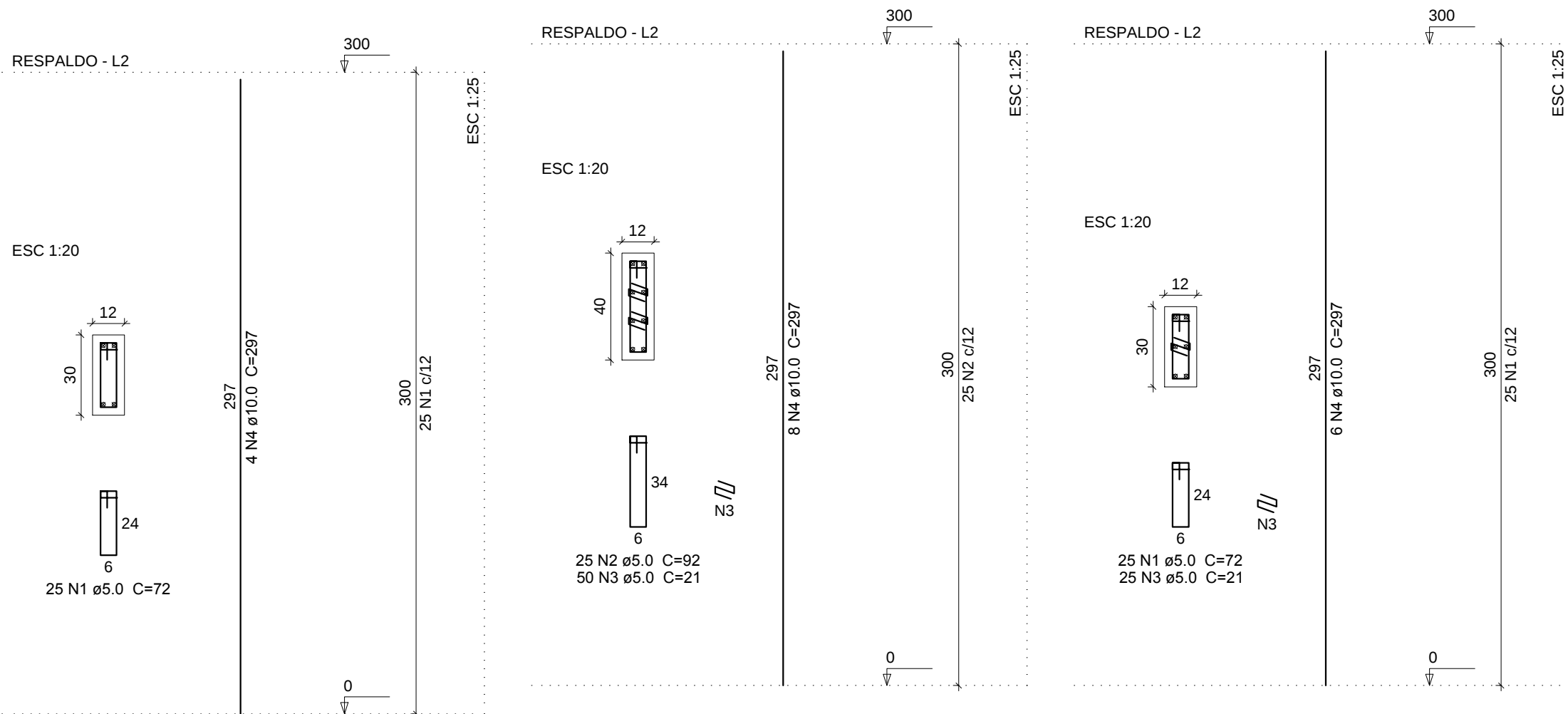


V14 (12 x 30)



P1=P2=P3=P4=P5=P6=P11=P12=P13=P15=P16
=P17=P18=P19=P20=P21

P8



Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	425	72	30600
	2	5.0	50	92	4600
	3	5.0	125	21	2625
CA50	4	10.0	86	297	25542

Volume de concreto (C-25) = 2.12 m³
Área de forma = 49.08 m²

PROJETO ESTRUTURAL

OBRA: AMPLIACAO PSF PANORAMA
ENDEREÇO: UBRATA

RESPONSÁVEL TÉCNICO: EDUARDO FELIPE MANFE CREA: 135944/D -PR

Conteúdo: VIGAS BALDRAME
PILARES

PAVIMENTO: TERREO UNIDADE: cm TOTAL DE PRANCHAS: 05

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE UBRATA

DESENHO: EDUARDO DATA: 10/04/2017 FOLHA: 03 / 05