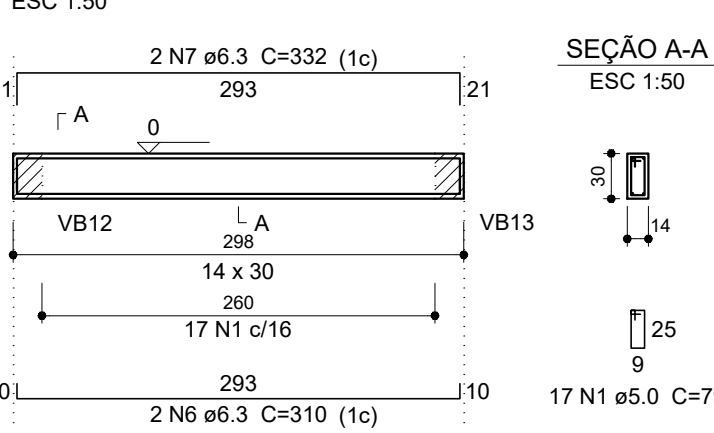
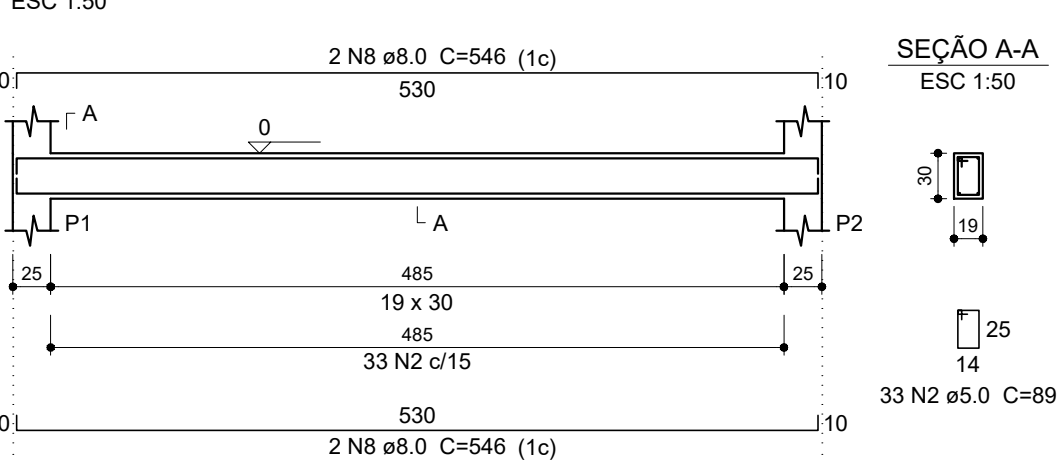


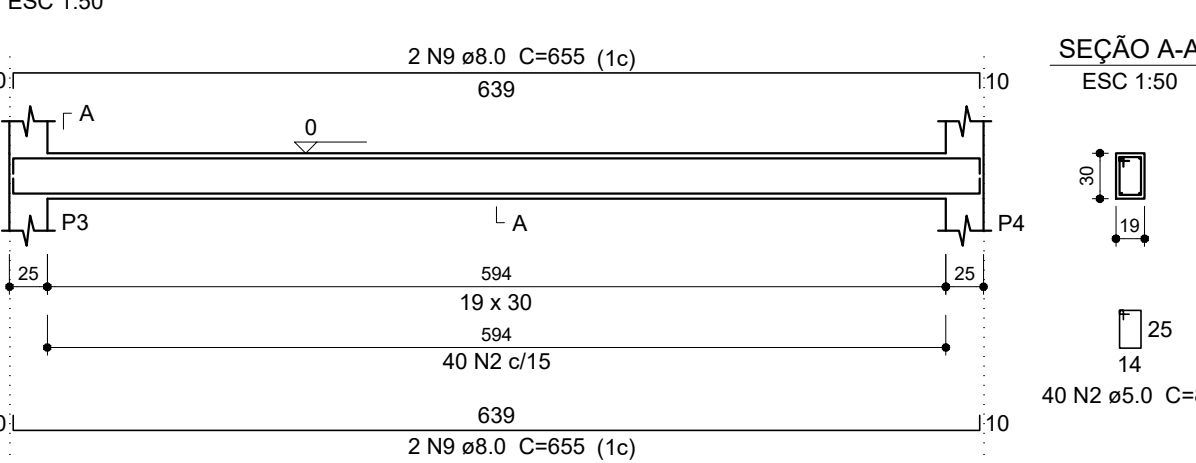
VB1 (14 x 30)



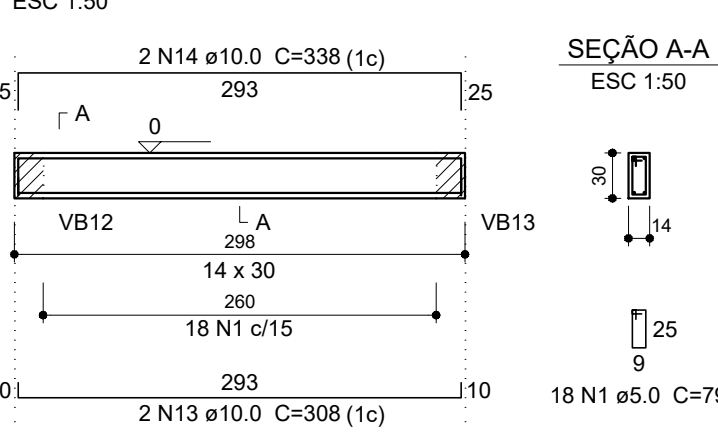
VB2 (19 x 30)



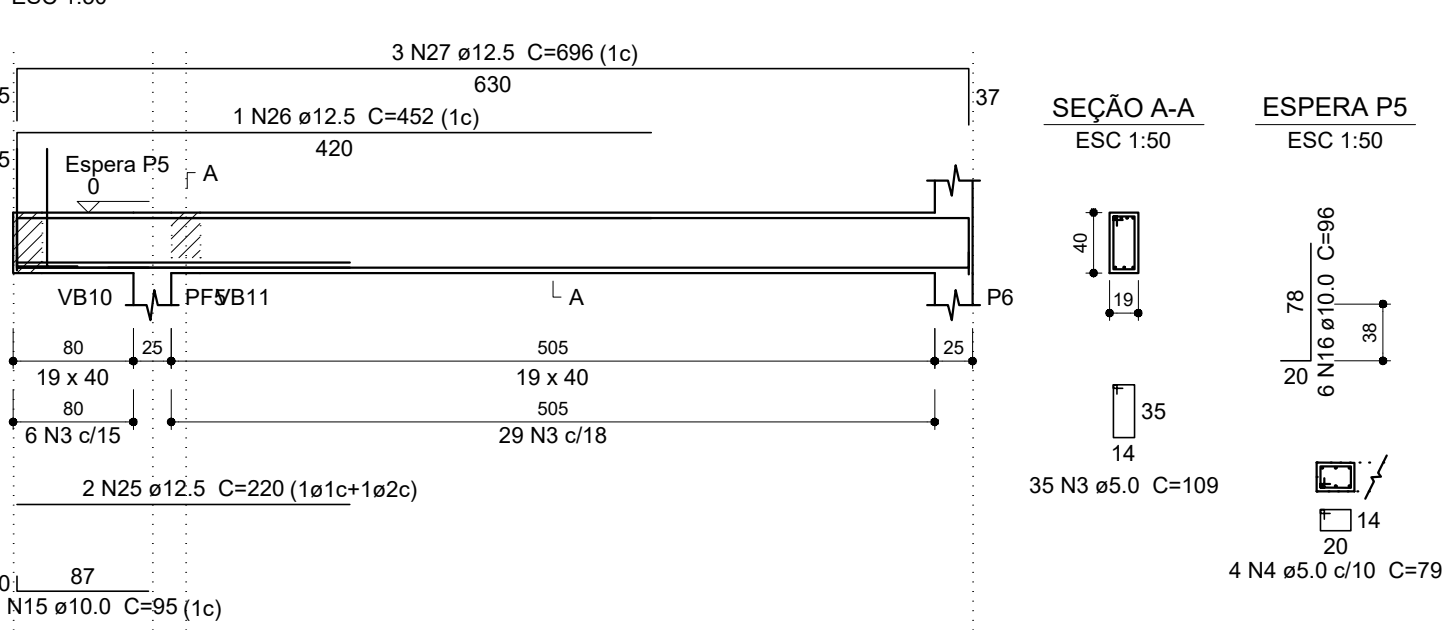
VB3 (19 x 30)



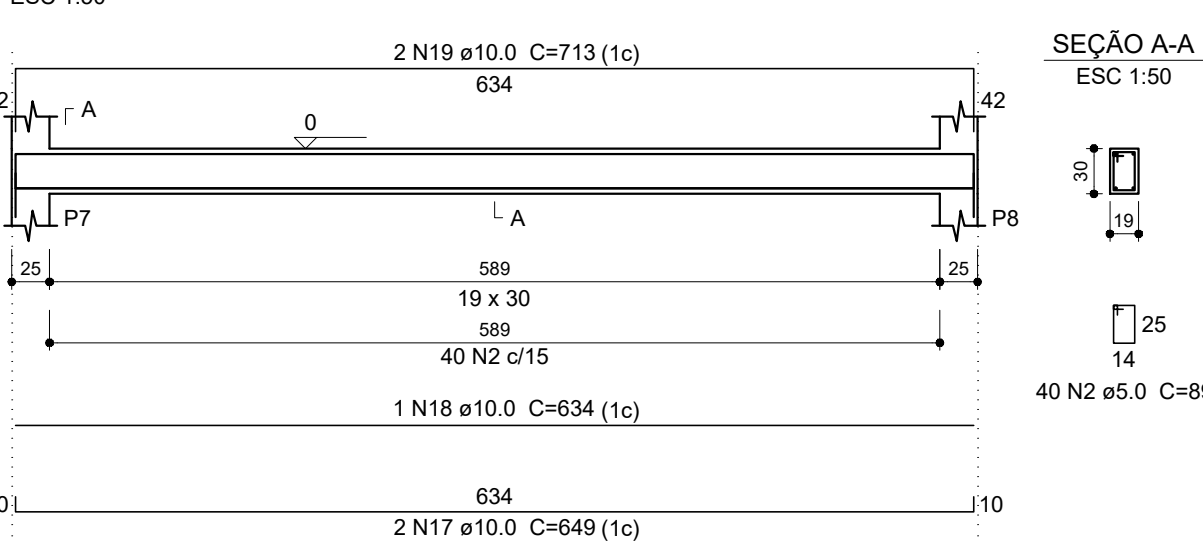
VB4 (14 x 30)



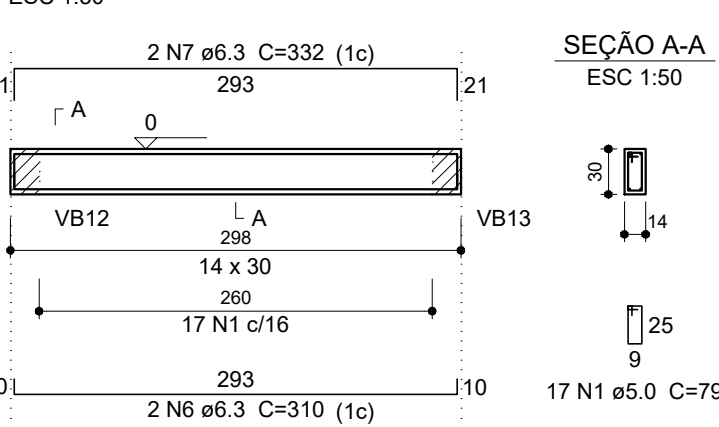
VB5 (19 x 40)



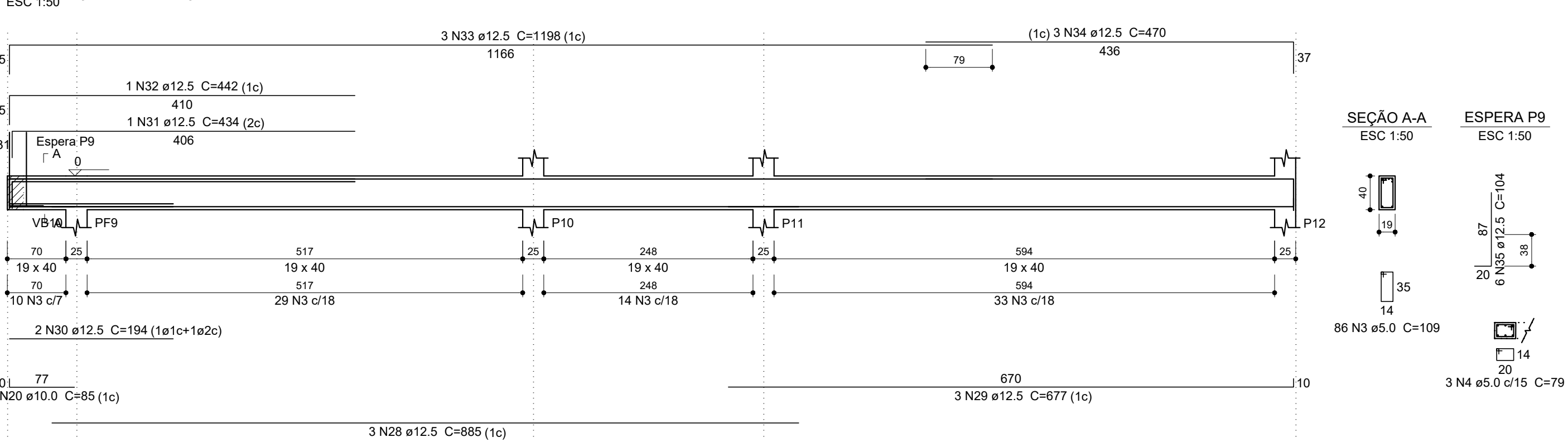
VB6 (19 x 30)



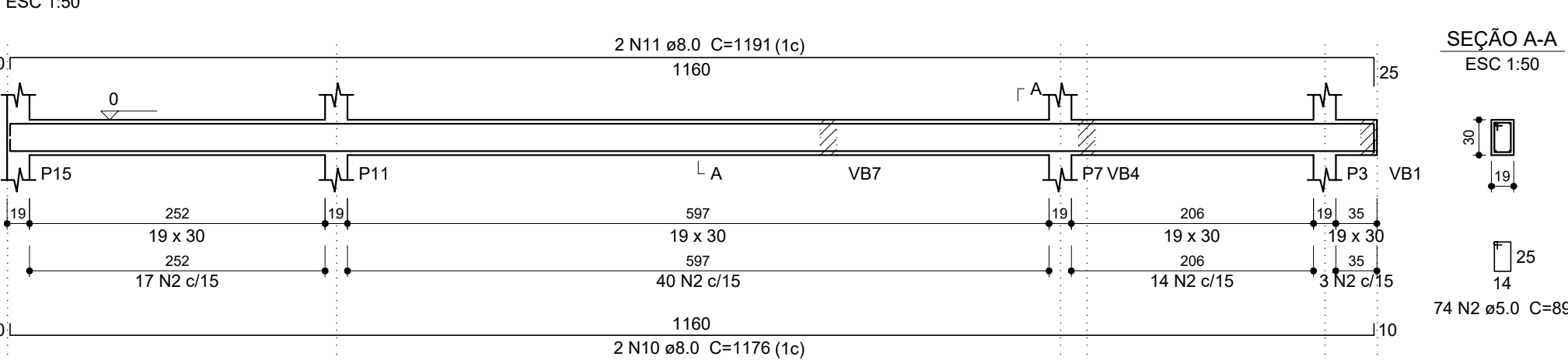
VB7 (14 x 30)



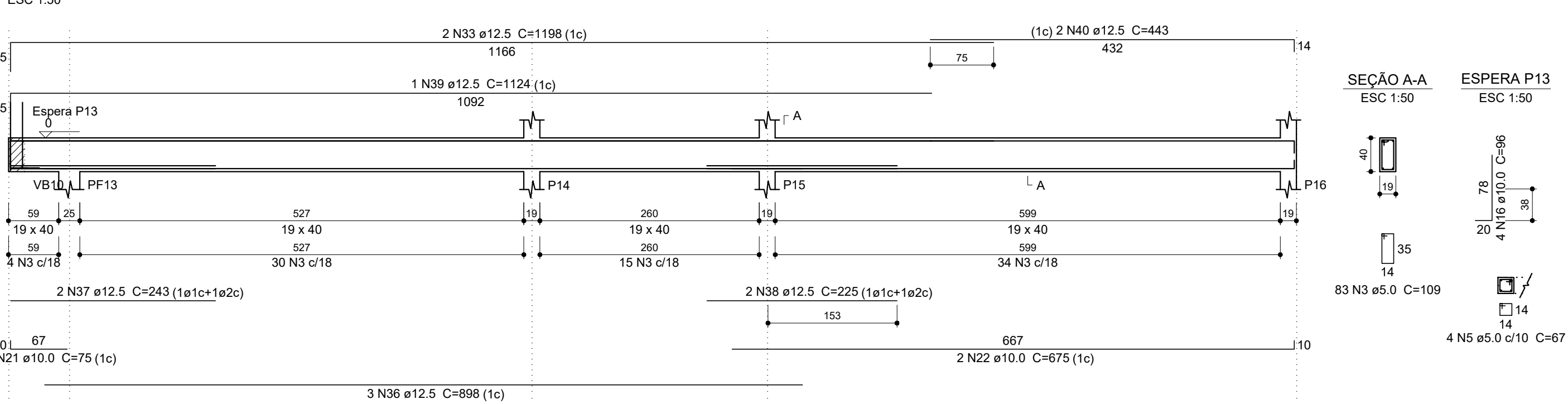
VB8 (19 x 40)



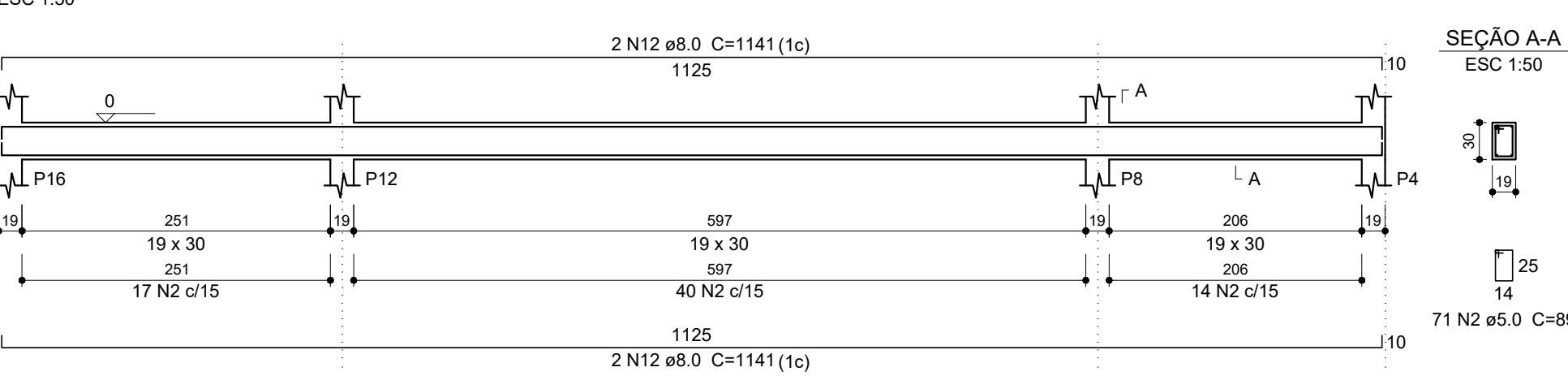
VB13 (19 x 30)



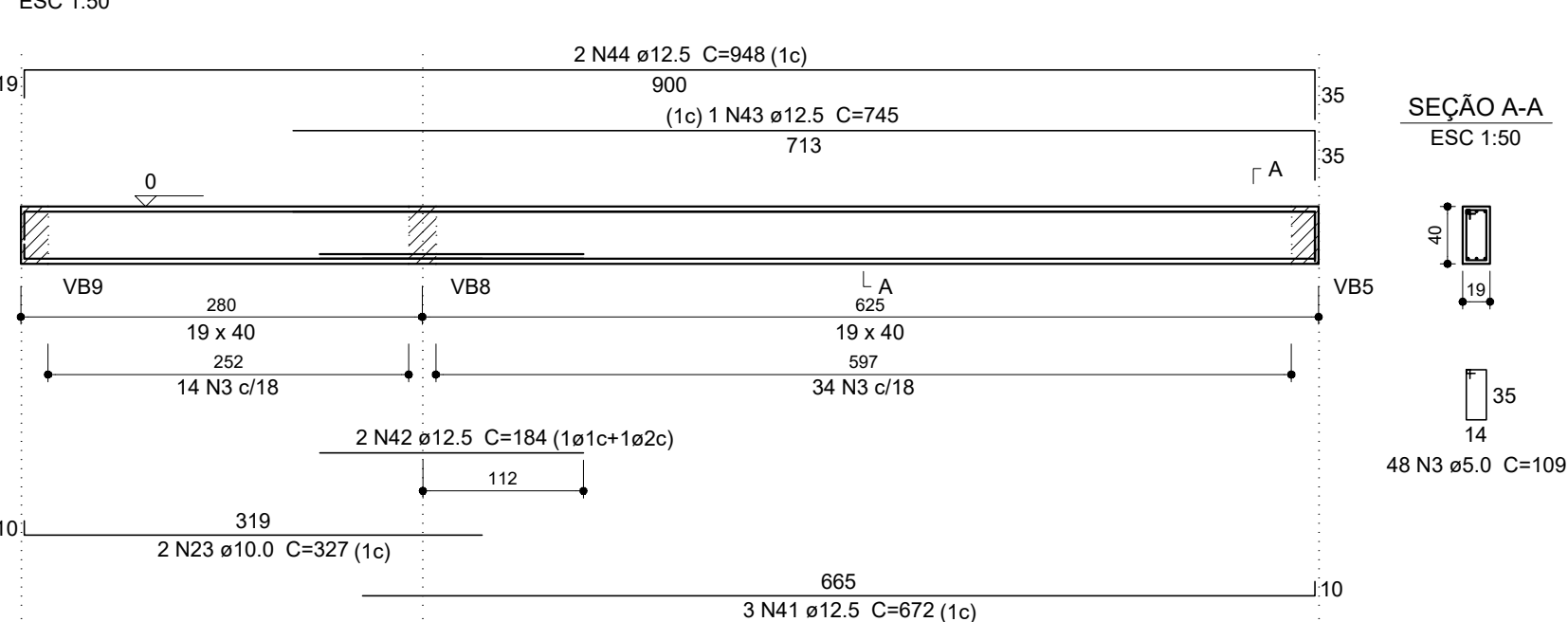
VB9 (19 x 40)



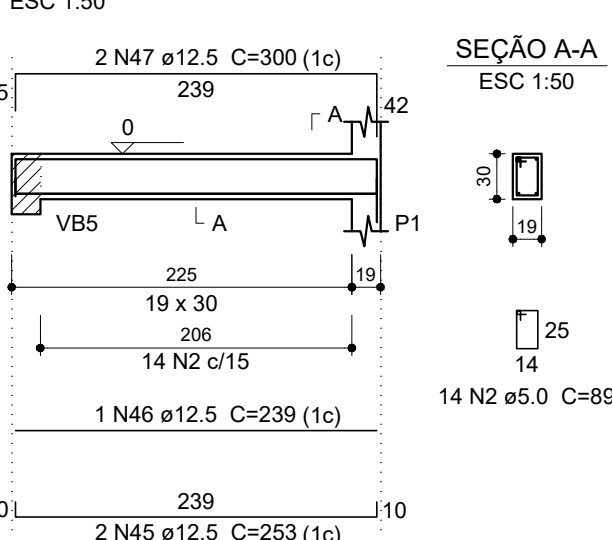
VB14 (19 x 30)



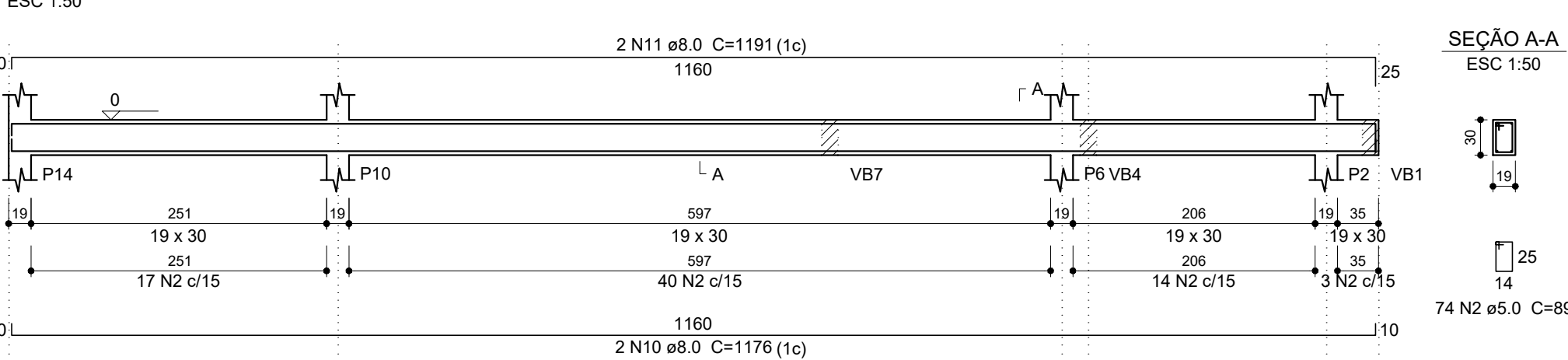
VB10 (19 x 40)



VB11 (19 x 30)



VB12 (19 x 30)



Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB1	1	5.0	52	79	4108
VB4	2	5.0	346	89	30794
VB7	3	5.0	252	109	27468
VB10	4	5.0	7	79	553
VB13	5	5.0	4	67	268
VB2	6	6.3	4	310	1240
VB5	7	6.3	4	332	1328
VB8	8	8.0	4	546	2184
VB11	9	8.0	4	655	2620
VB14	10	8.0	4	1176	4704
	11	8.0	4	1191	4764
	12	8.0	4	1141	4564
	13	10.0	2	308	616
	14	10.0	2	338	676
	15	10.0	2	95	190
	16	10.0	10	96	960
	17	10.0	2	649	1298
	18	10.0	1	634	634
	19	10.0	2	713	1426
	20	10.0	2	85	170
	21	10.0	2	75	150
	22	10.0	2	675	1350
	23	10.0	2	327	654
	24	12.5	3	576	1728
	25	12.5	2	220	440
	26	12.5	1	452	452
	27	12.5	3	696	2088
	28	12.5	3	885	2655
	29	12.5	3	677	2031
	30	12.5	2	194	388
	31	12.5	1	434	434
	32	12.5	1	442	442
	33	12.5	5	1198	5990
	34	12.5	3	470	1410
	35	12.5	6	104	624
	36	12.5	3	898	2694
	37	12.5	2	243	486
	38	12.5	2	225	450
	39	12.5	1	1124	1124
	40	12.5	2	443	886
	41	12.5	3	672	2016
	42	12.5	2	184	368
	43	12.5	1	745	745
	44	12.5	2	948	1896
	45	12.5	2	253	506
	46	12.5	1	239	239
	47	12.5	2	300	600

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	25.7	3	6.9
	8.0	188.4	18	81.8
	10.0	81.3	8	55.1
	12.5	307	29	325.2
CA60	5.0	632	58	107.1
PESO TOTAL (kg)				
CA50		469		
CA60		107.1		

Volume de concreto (C-30) = 6.56 m³
Área de forma = 89.4 m²



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FELIPE HENRIQUE CAMARGOS
CREA: 248.394/D

RESPONSÁVEL PELA OBRA:

MUNICÍPIO DE IGARATINGA
CNPJ: 18.313.825/0001-21

PROJETO DE ESTRUTURA EM CONCRETO ARMADO E FUNDAÇÃO

CONTÉM: DETALHAMENTO VIGAS BALDRAME.	ASSUNTO: PROJETO EXECUTIVO DE ESTRUTURA DE CONCRETO ARMADO E FUNDAÇÕES PARA CONSTRUÇÃO DA AMPLIAÇÃO DO CEMEI ANA LUCINDA. LOCAL: PRAÇA MANOEL DE ASSIS, Nº 272 MUNICÍPIO: IGARATINGA/MG FINALIDADE: EDUCAÇÃO RESPONSÁVEL: MUNICÍPIO DE IGARATINGA CNPJ: 18.313.825/0001-21 ÁREA DO TERRENO: 1.605,28 m² ÁREA A CONSTRUIR: 1572,42 m² DESENHO: THALYS DE SOUZA C. DATA: 22/10/2024 REVISÃO: 01/2024
	FOLHA: 34/37