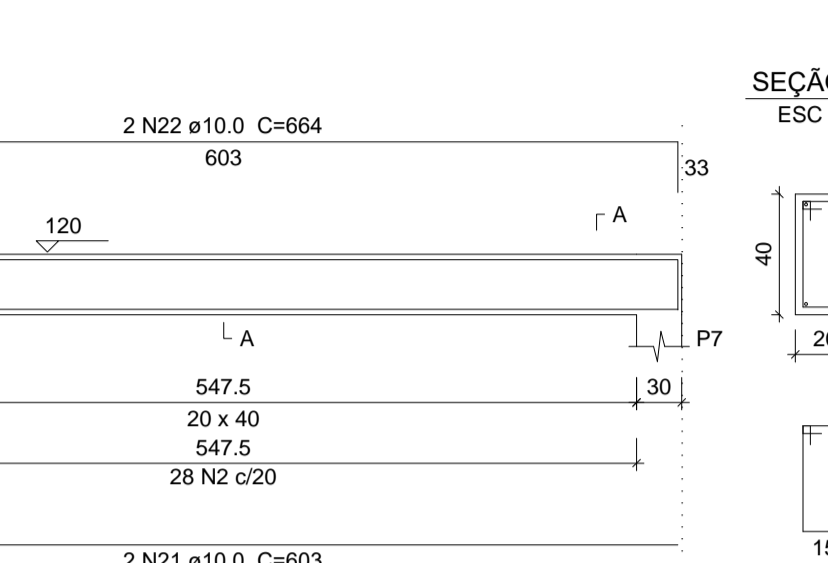
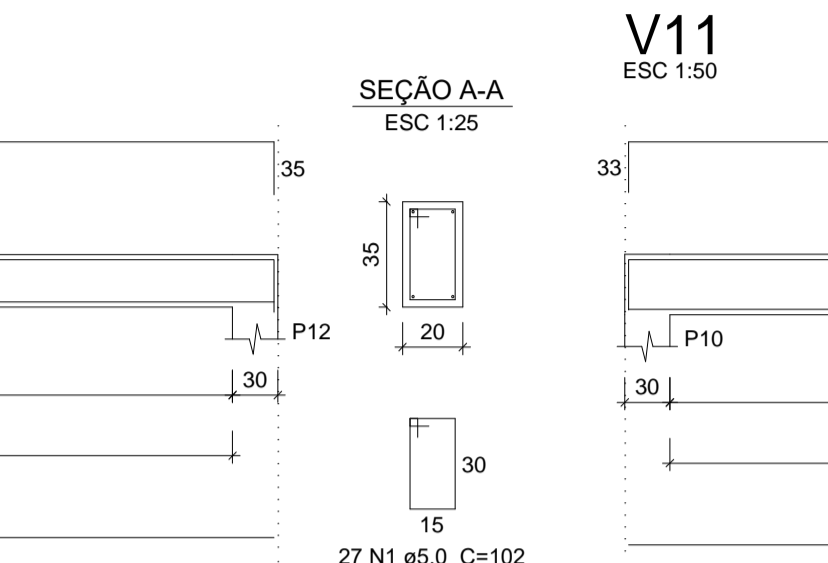
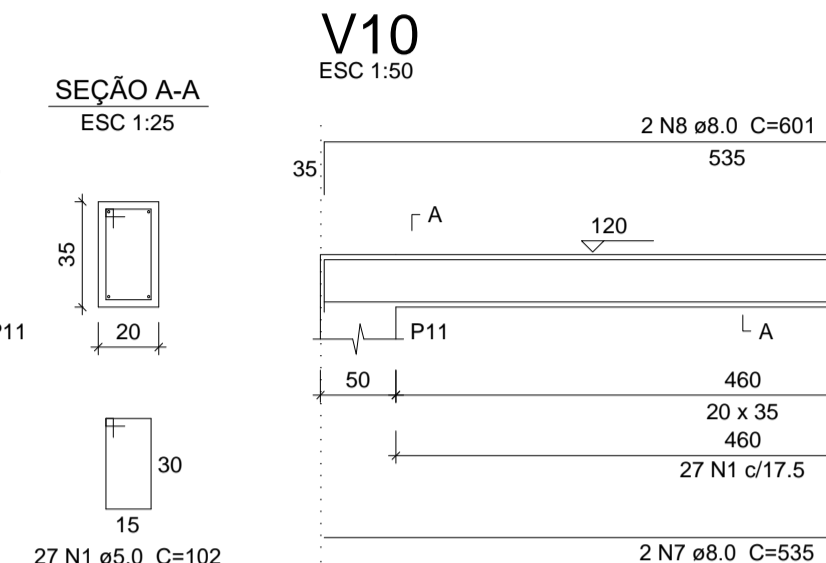
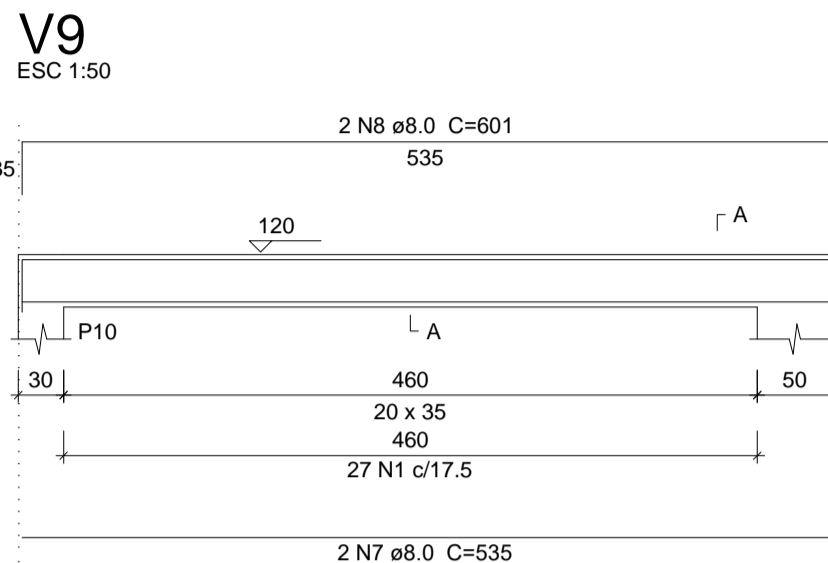
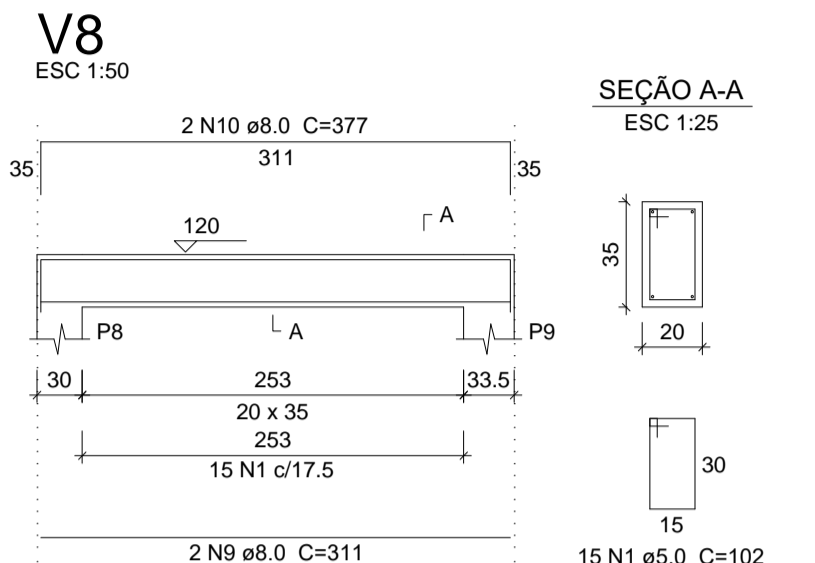


**Relação do aço**

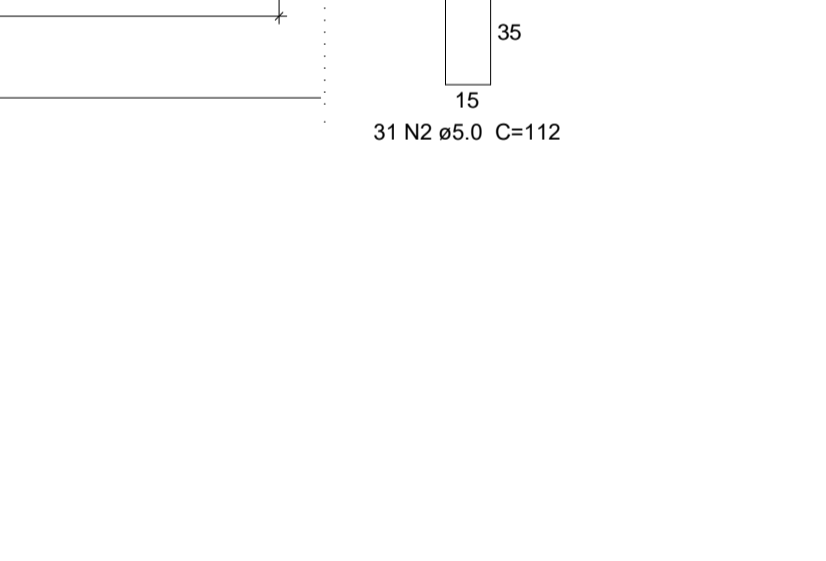
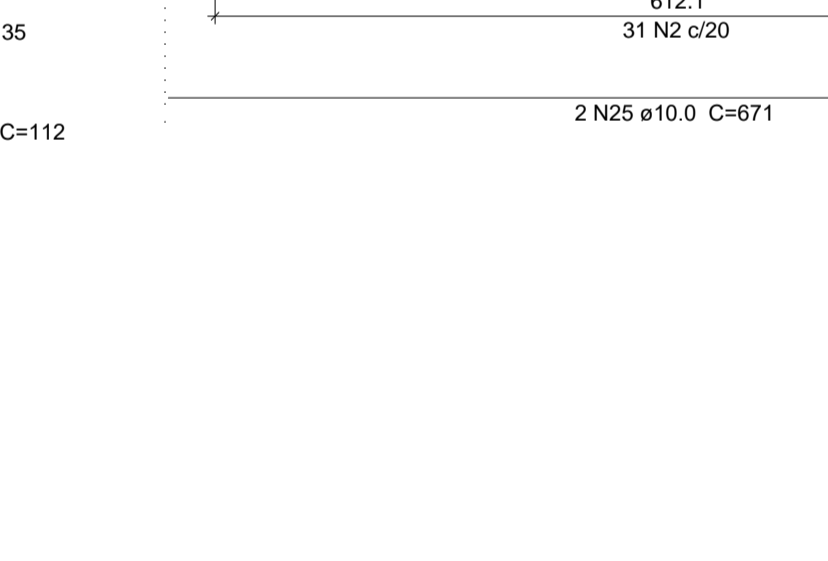
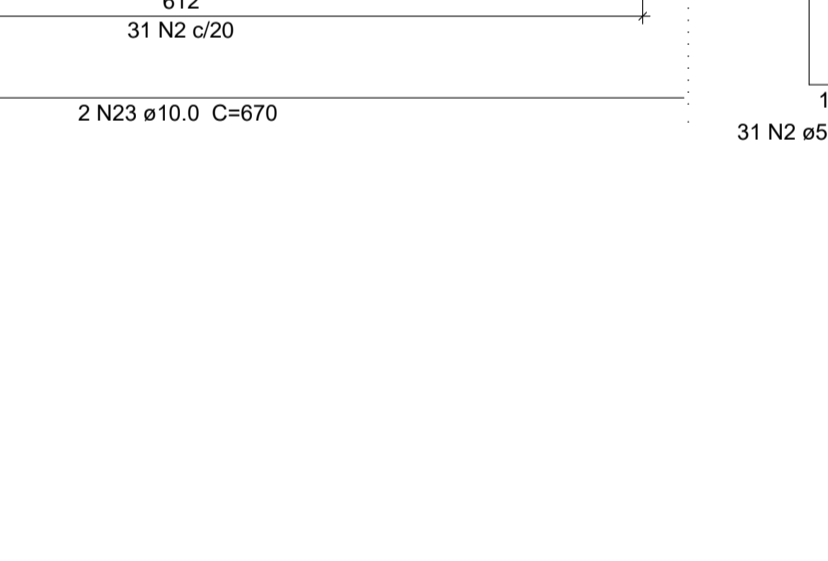
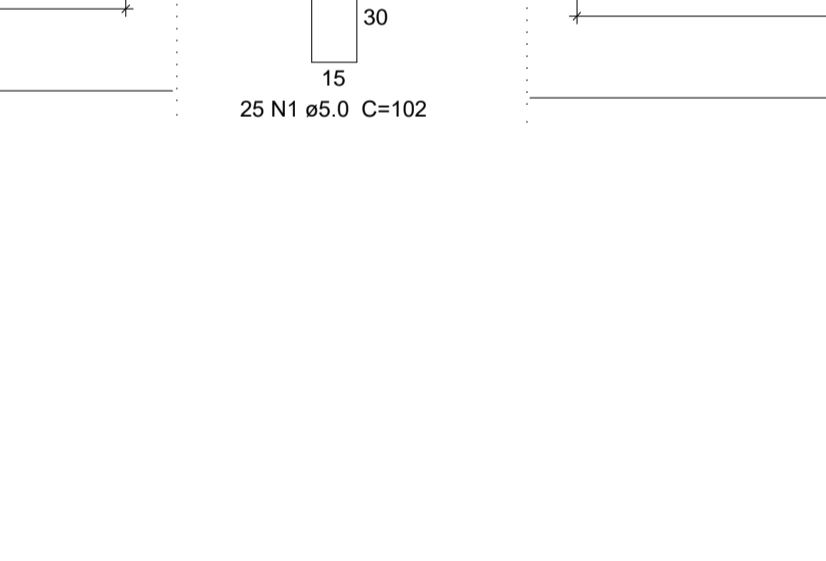
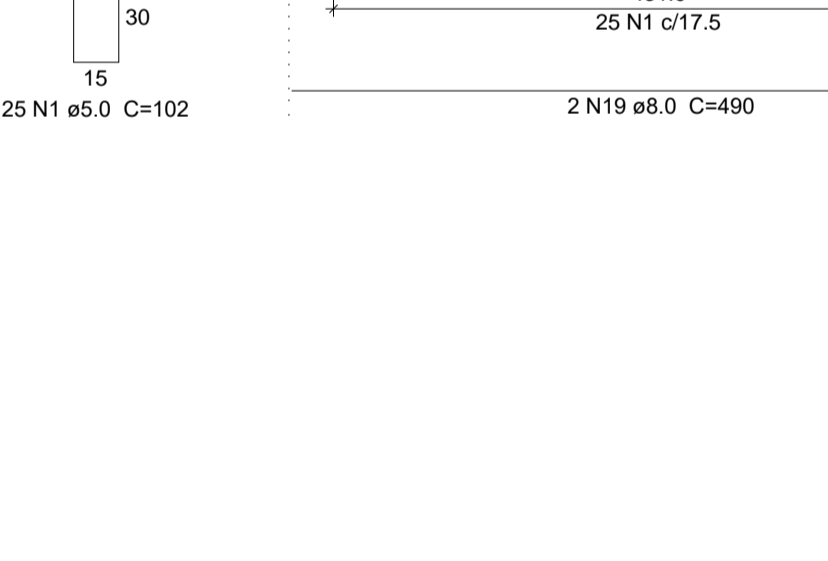
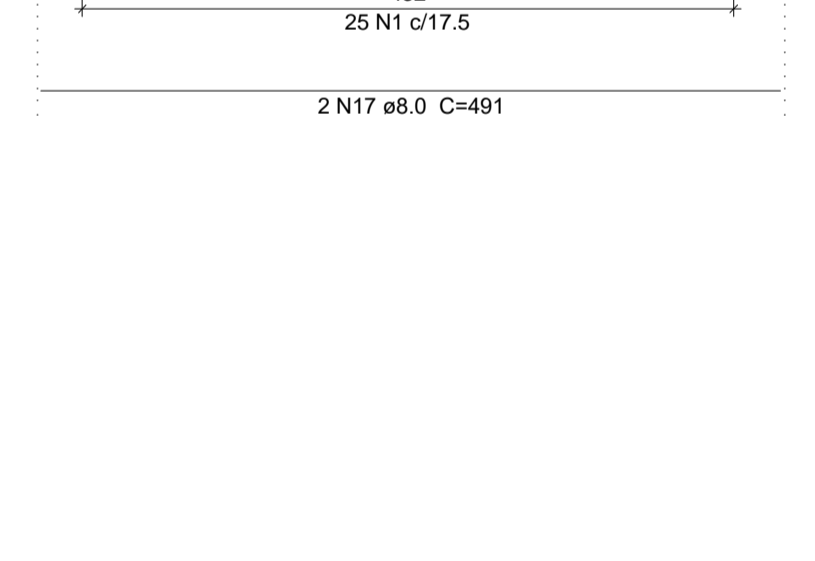
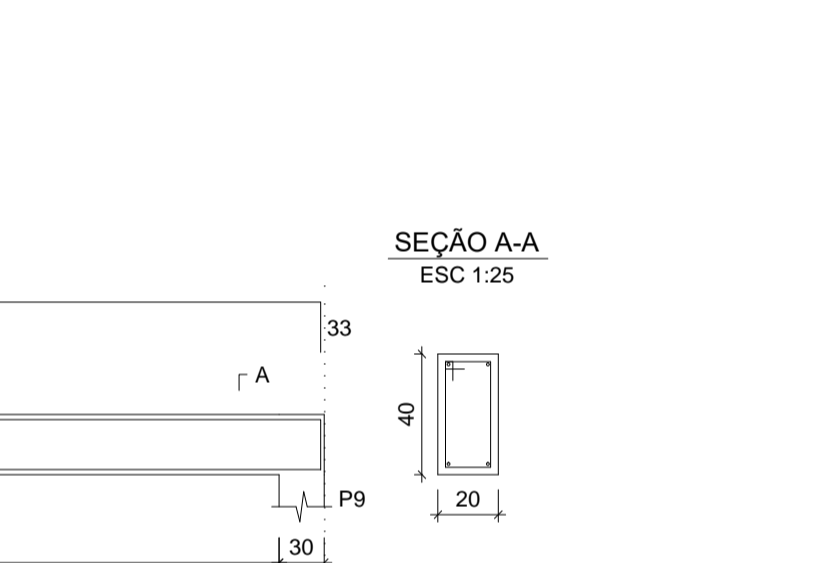
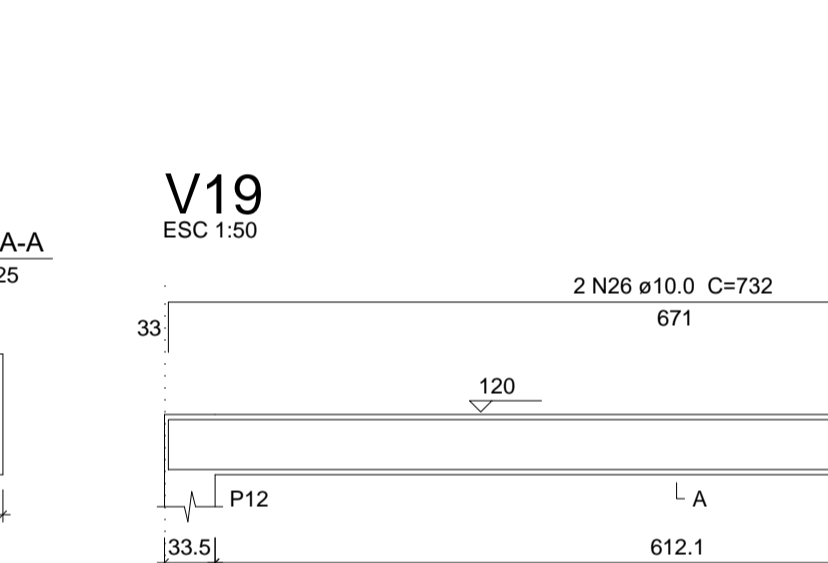
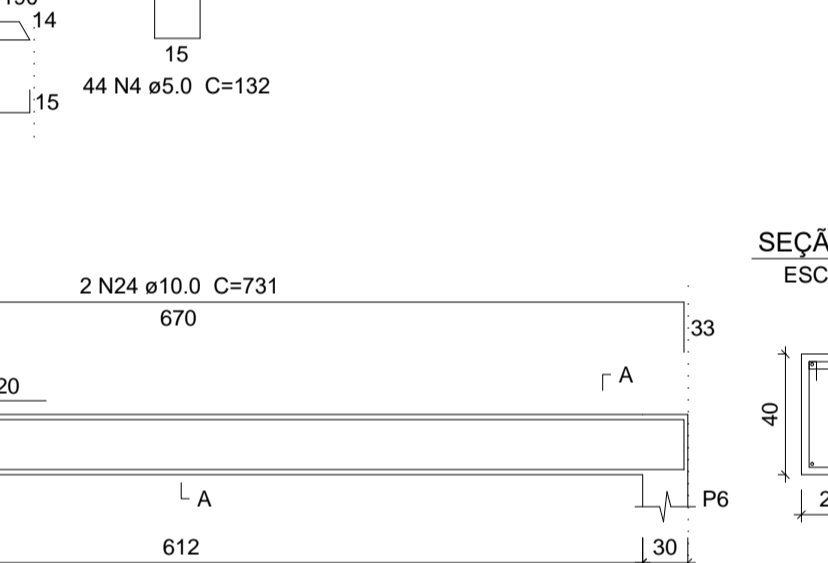
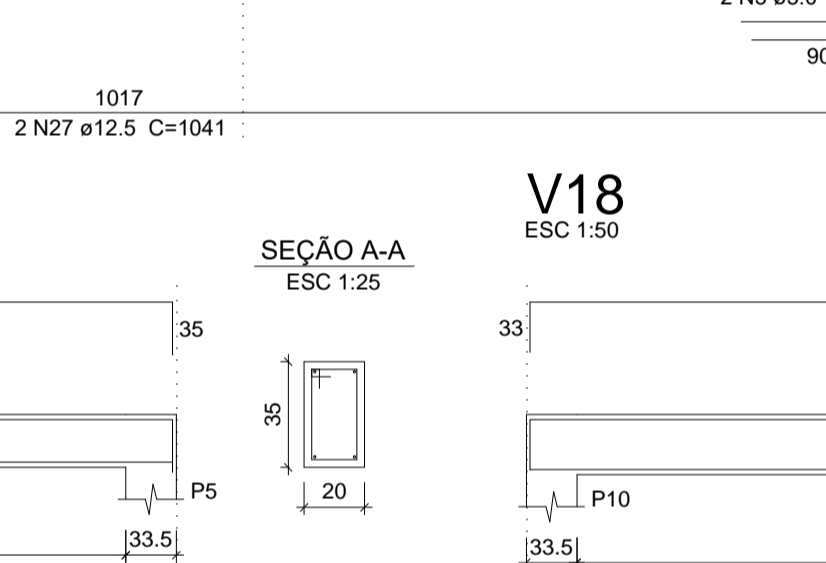
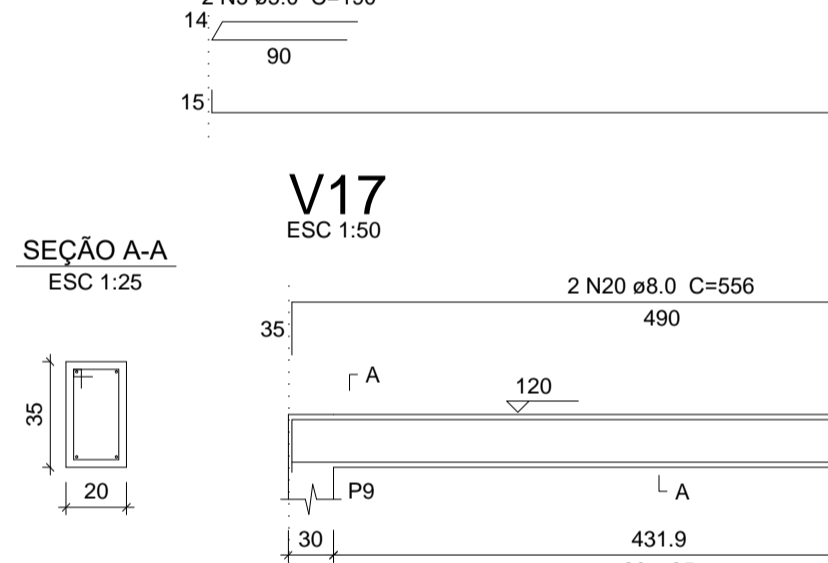
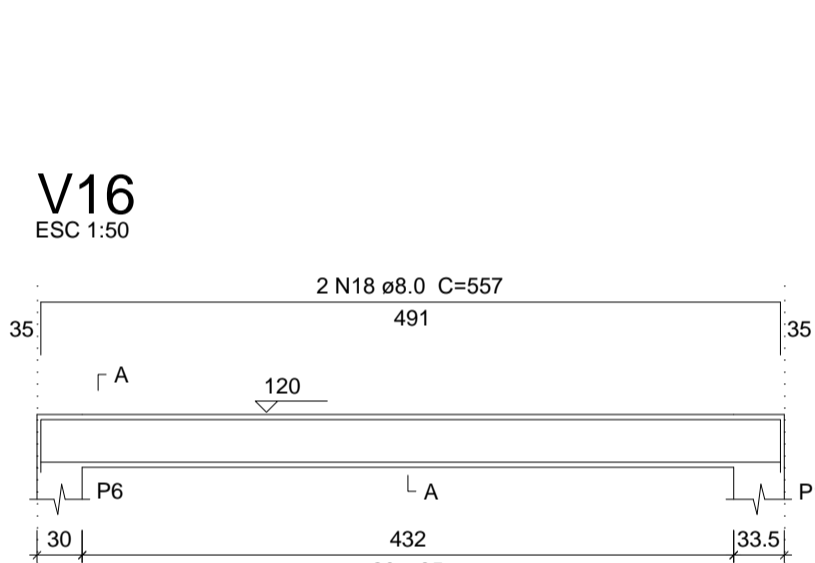
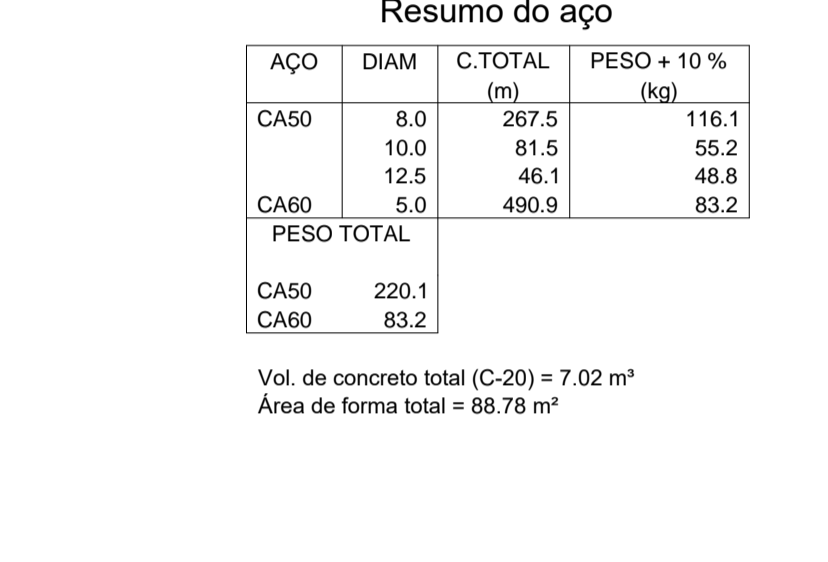
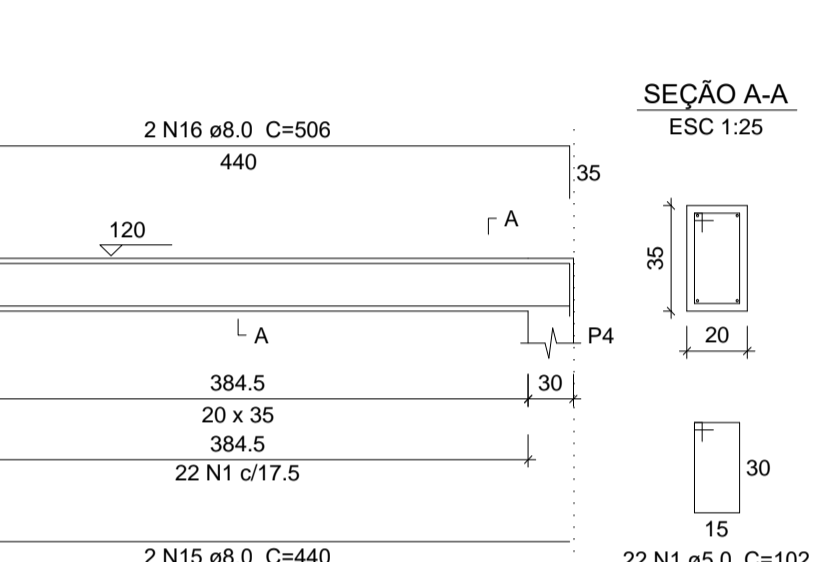
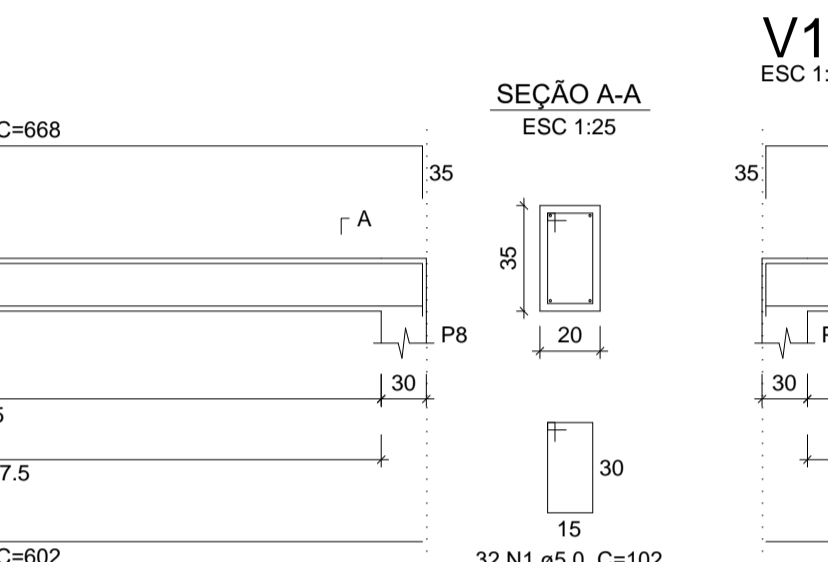
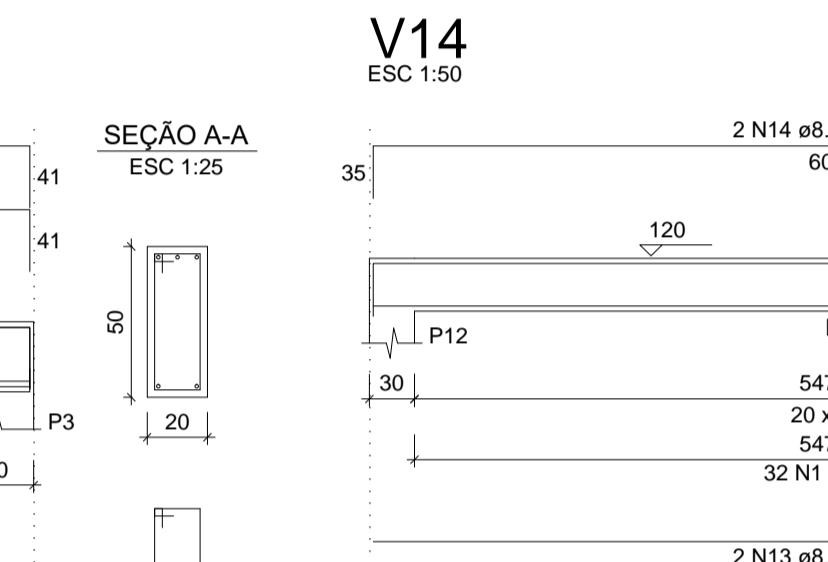
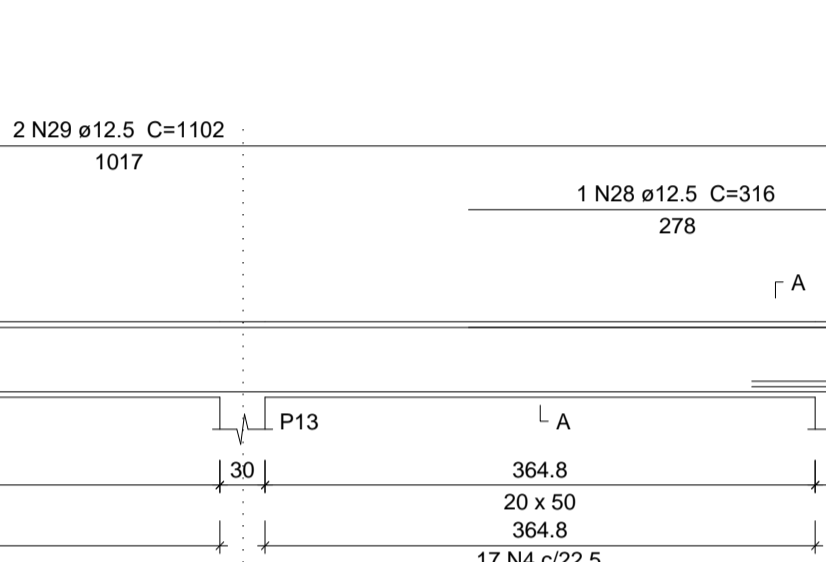
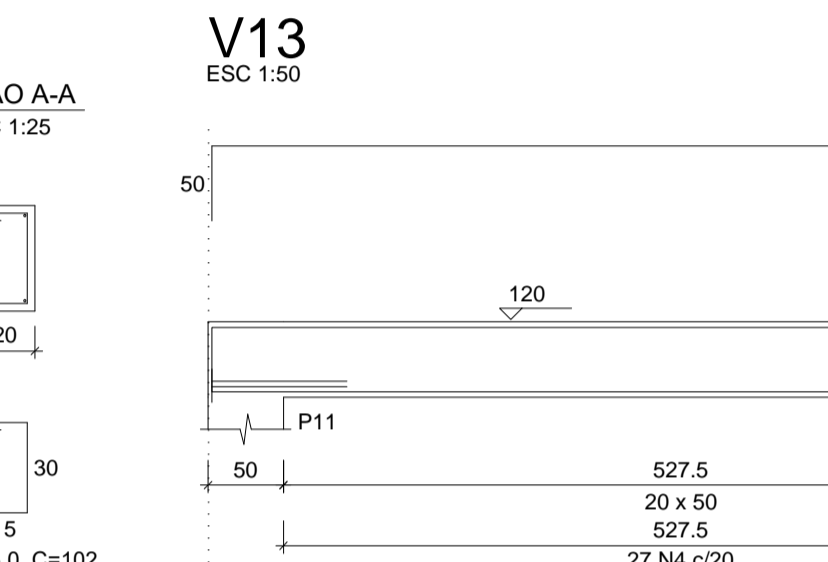
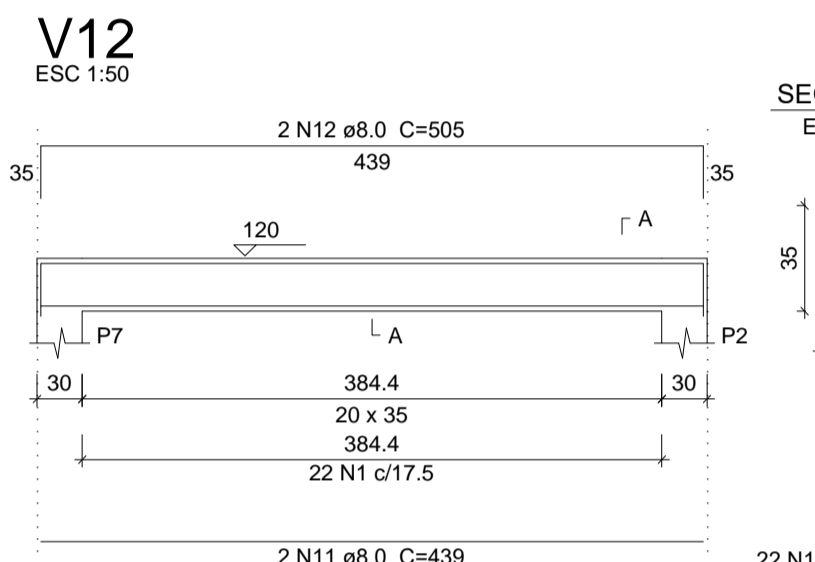
CAÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	318	102	32436
	2	5.0	90	112	10080
	3	5.0	4	190	760
	4	5.0	44	132	5808
	5	8.0	4	517	2068
	6	8.0	4	583	2332
	7	8.0	8	535	4280
	8	8.0	8	601	4808
	9	8.0	4	311	1244
	10	8.0	4	377	1508
	11	8.0	2	439	878
	12	8.0	2	505	1010
	13	8.0	2	602	1204
	14	8.0	2	668	1336
	15	8.0	2	440	880
	16	8.0	2	506	1012
	17	8.0	2	491	982
	18	8.0	2	557	1114
	19	8.0	2	490	980
	20	8.0	2	556	1112
	21	10.0	2	603	1206
	22	10.0	2	664	1328
	23	10.0	2	670	1340
	24	10.0	2	731	1462
	25	10.0	2	671	1342
	26	10.0	2	732	1464
	27	12.5	2	1041	2082
	28	12.5	1	316	316
	29	12.5	2	1102	2204



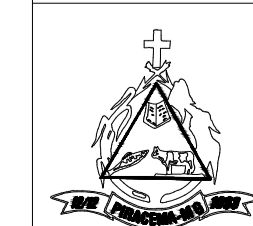
**Resumo do aço**

CAÇO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	267.5	116.1
	10.0	81.5	55.2
	12.5	46.1	48.8
CA60	5.0	490.9	83.2
<b>PESO TOTAL</b>			
CA50		220.1	
CA60		83.2	

Vol. de concreto total (C-20) = 7.02 m³  
Área de forma total = 88.78 m²



PROJETO			
0A	03/06/2019	DJAP	EMISSÃO INICIAL
REVISÃO	DATA	AUTOR	DESCRIÇÃO
IDENTIFICAÇÃO: CMC-1809-EST-EX-01-A1		ÁREA: 150.00 M2	
TÍTULO: PROJETO ESTRUTURAL DO CENTRO MUN. DE CONVIVÊNCIAS		USO: PÚBLICO	
CONTEÚDO: ARMAÇÃO DAS CINTAS DE FUNDAÇÃO		ART Nº: 4536274	
		ESCALA: INDICADA	
RESPONSÁVEIS			
PROPRIETÁRIO:		CNPJ: 17.980.392/0001-03	
PREFEITURA MUNICIPAL DE PIRACEMA-MG			
RESPONSÁVEL TÉCNICO:		CREA/MG: 201.765/D	
DOUGLAS JUNIO ALCANTARA PENNA			
COMO RT DECLARO QUE O PROJETO ORA APRESENTADO ATENDE A LEGISLAÇÃO VIGENTE			



TIPO: NOME ARQUIVO: CMC-EST-EX-01  
FOLHA: 05/05  
A1