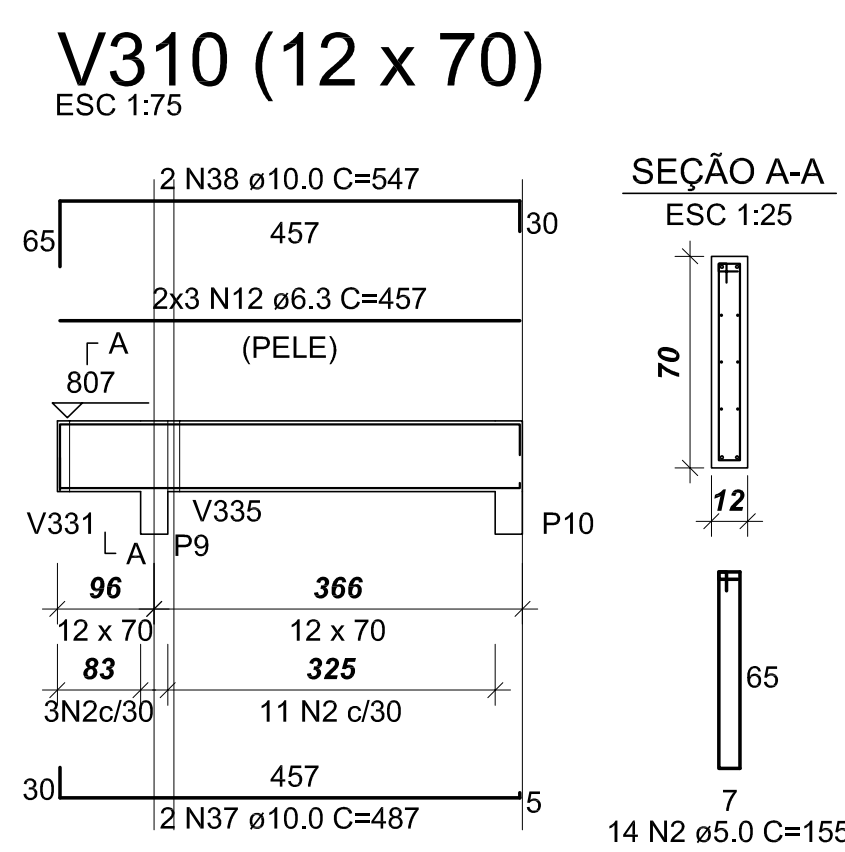
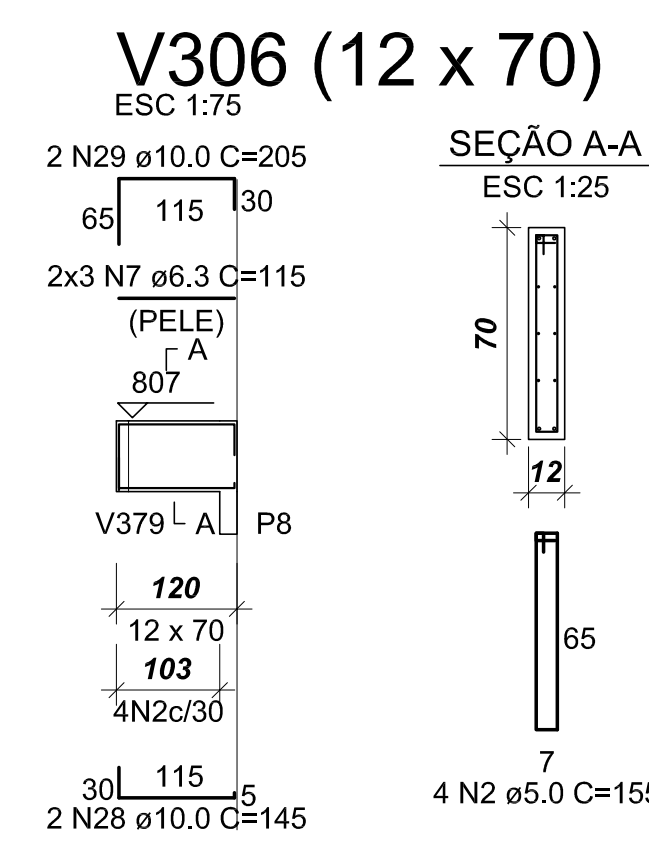
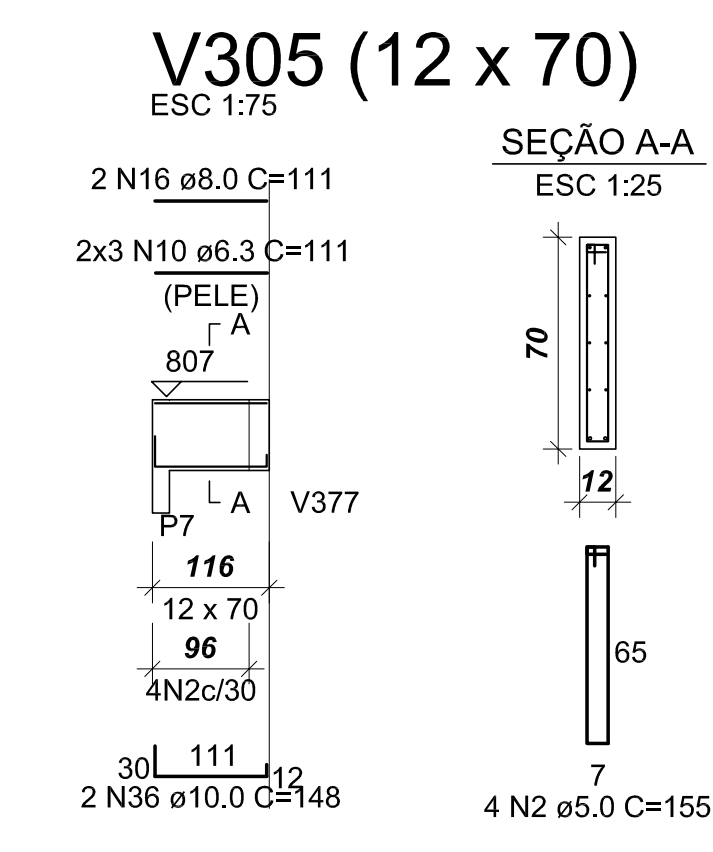
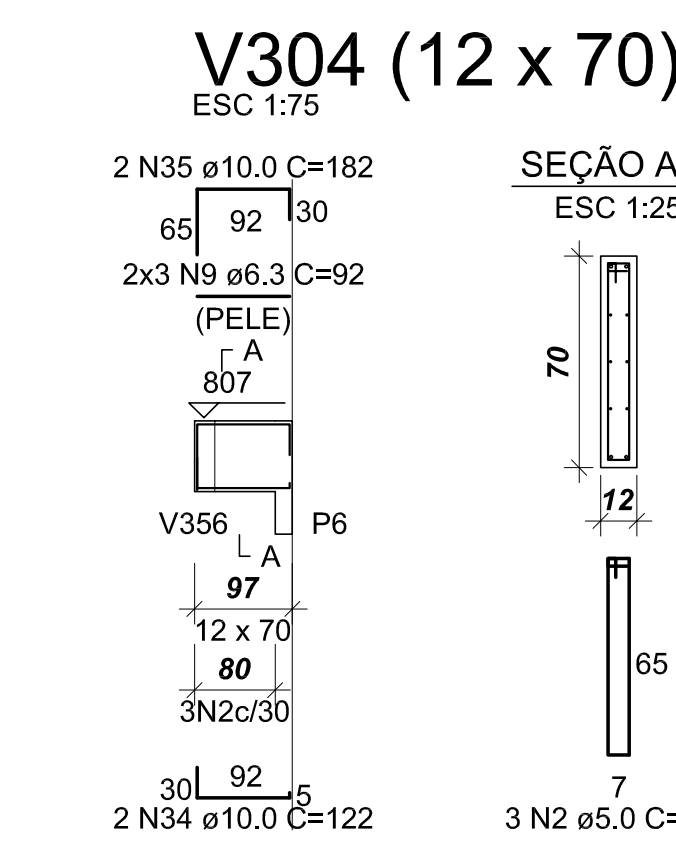
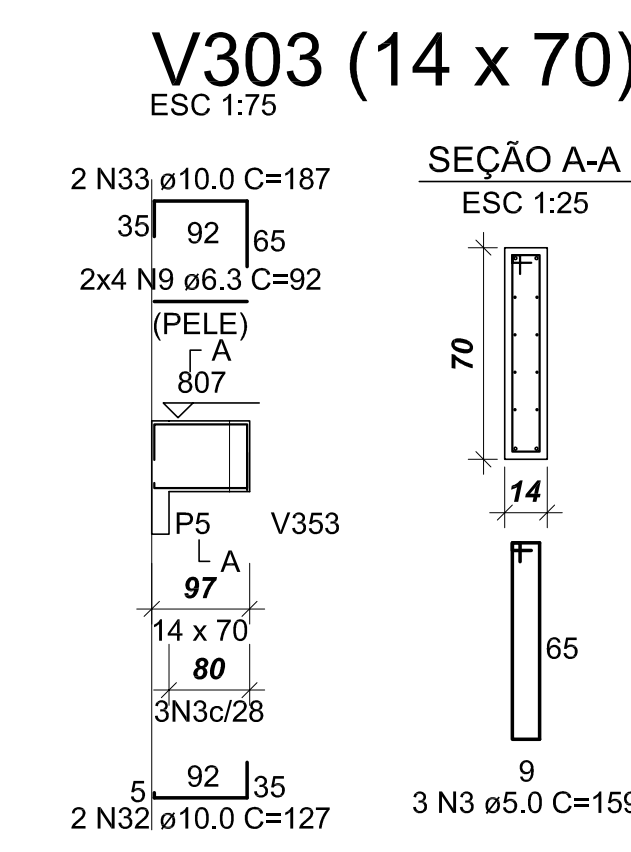
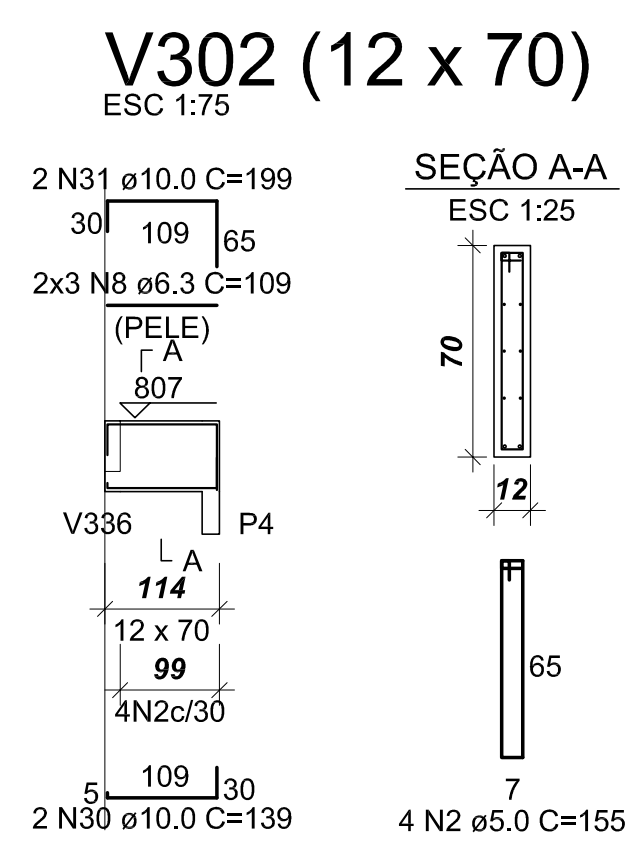
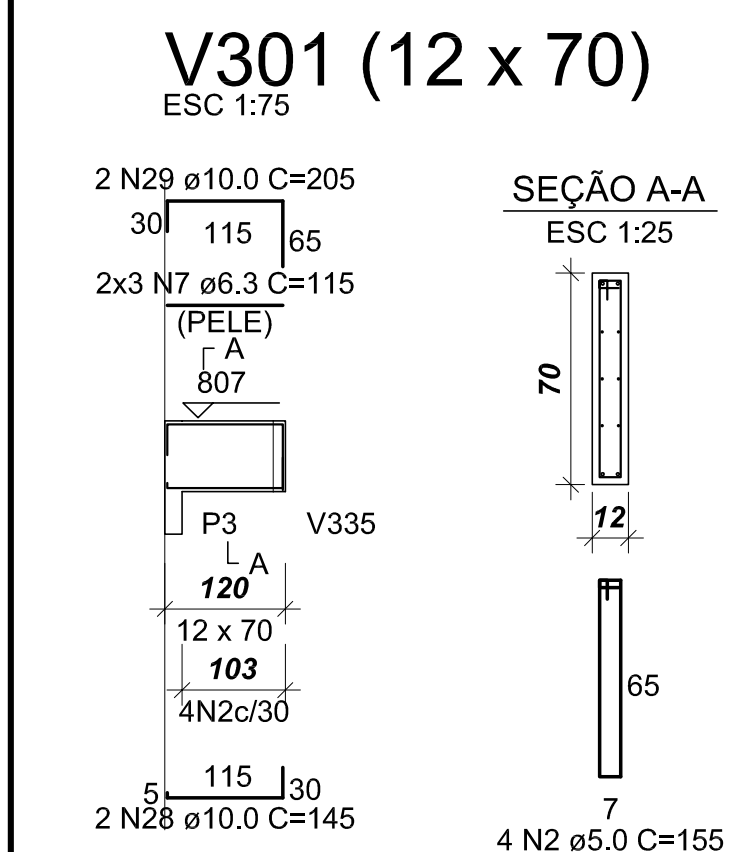
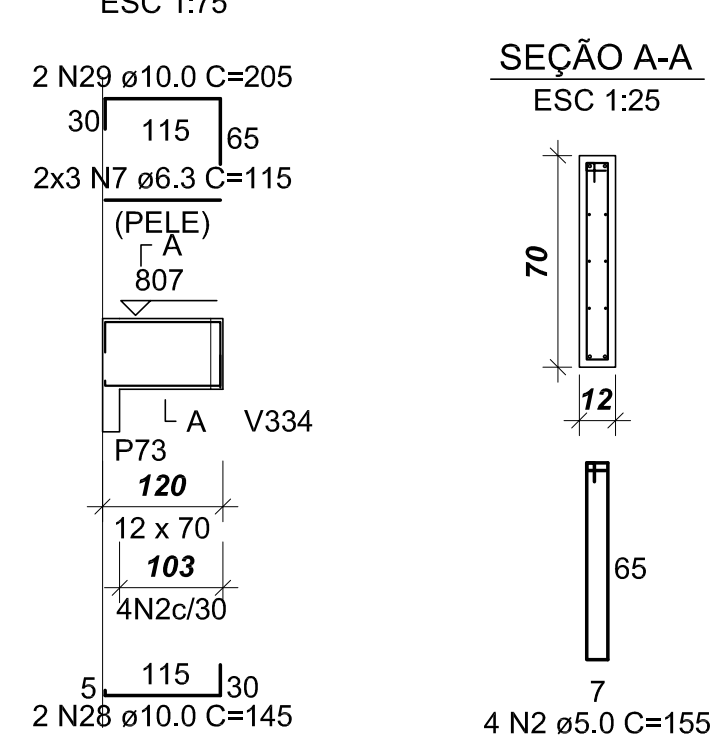
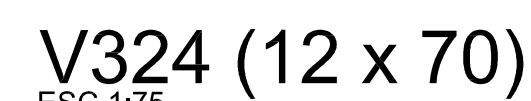
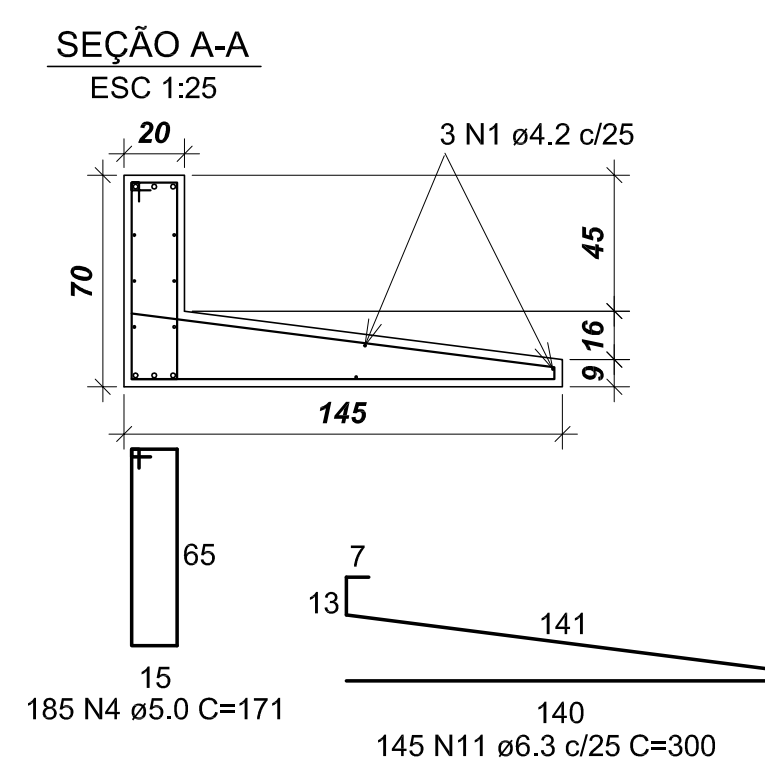
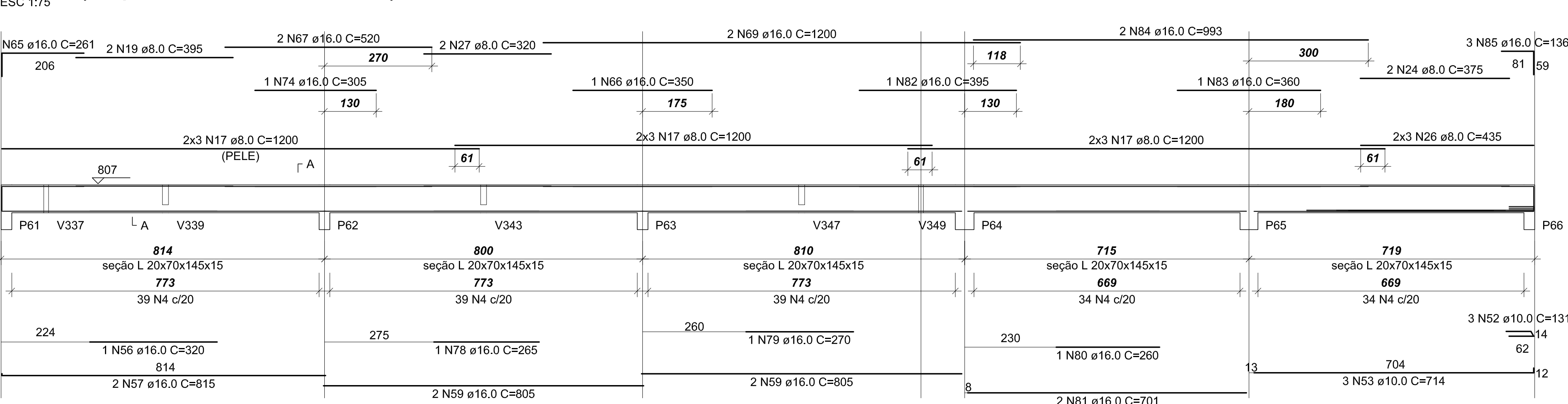
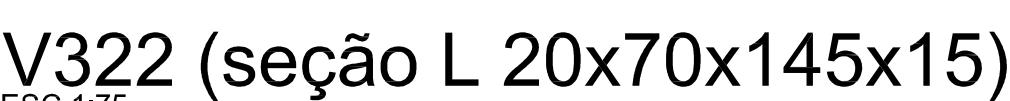
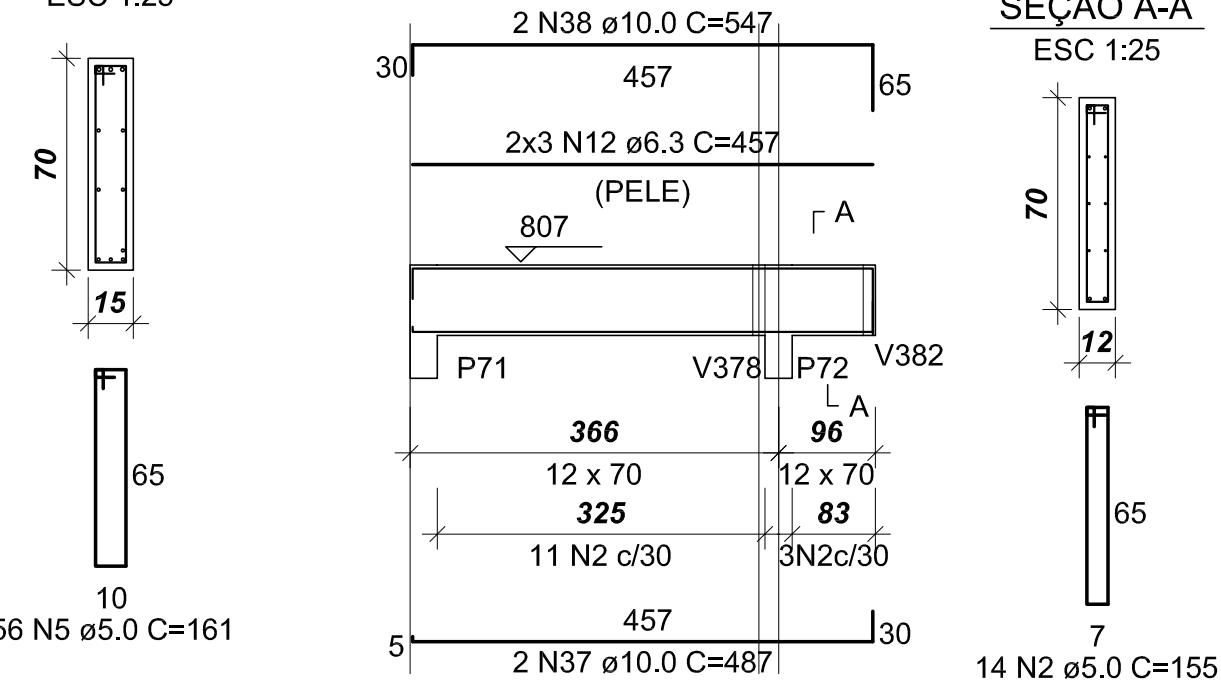
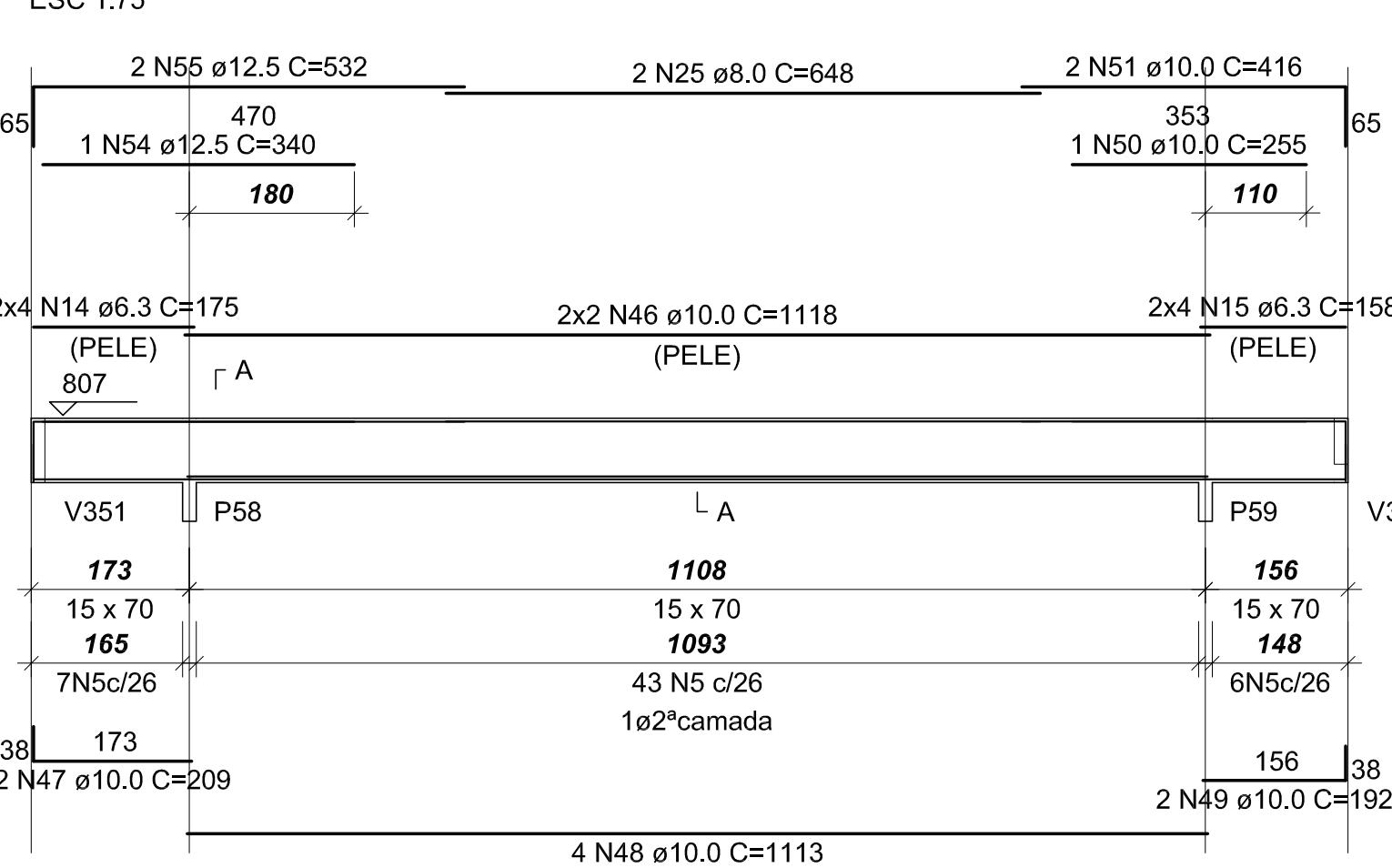
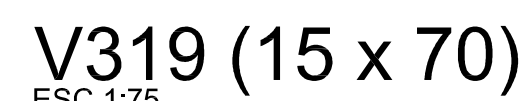
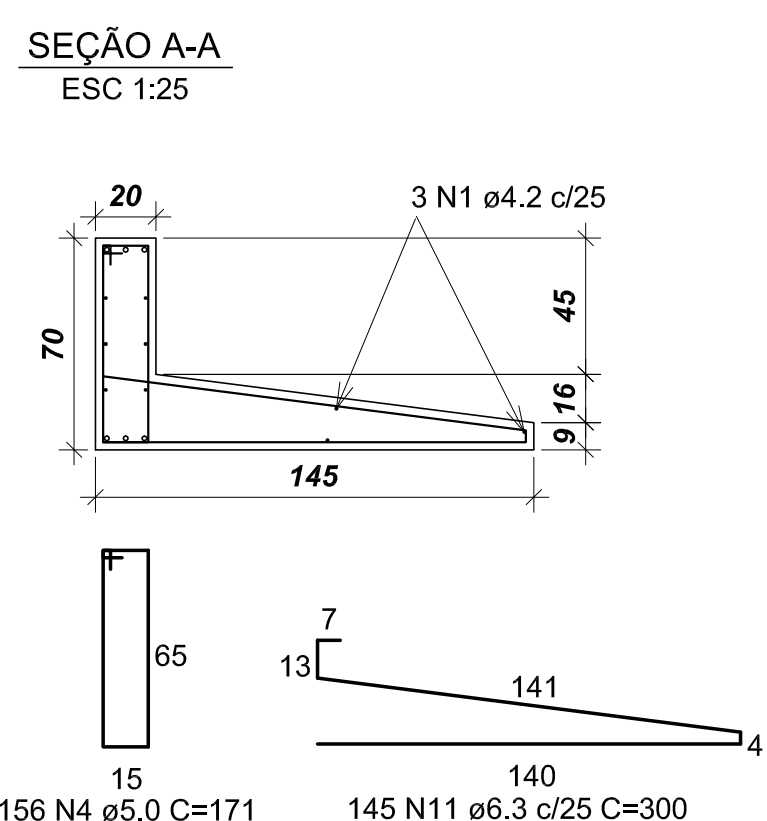
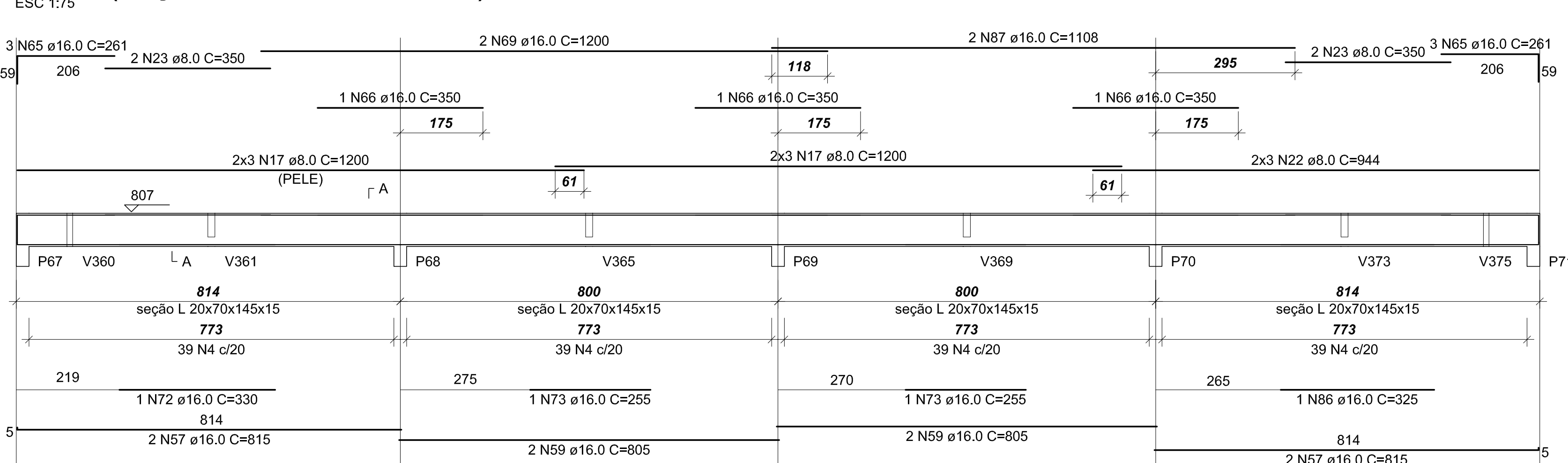
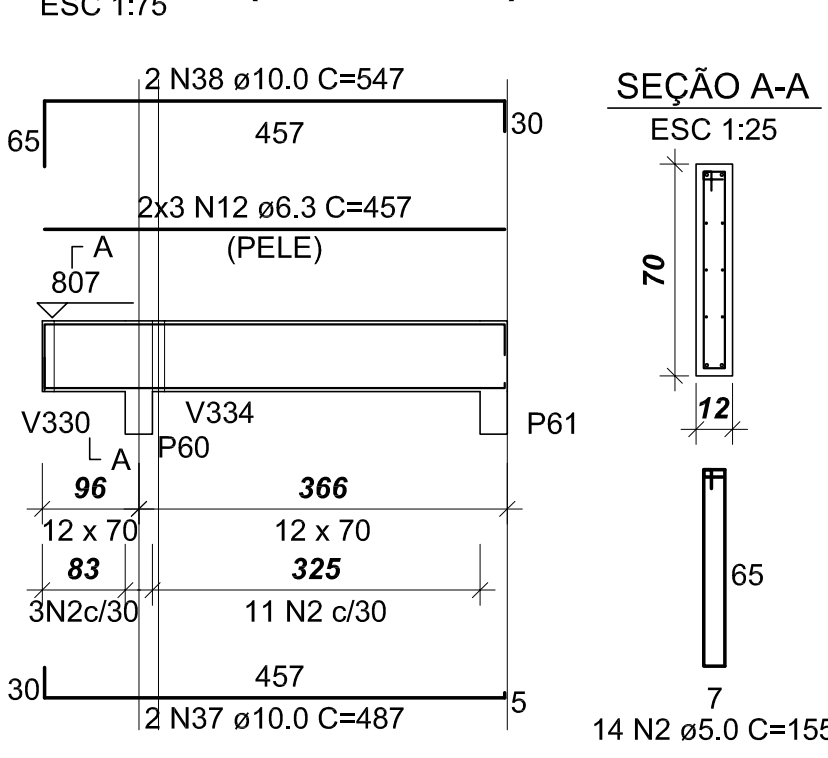
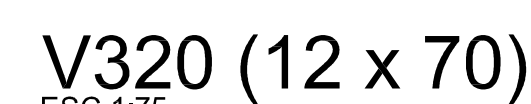
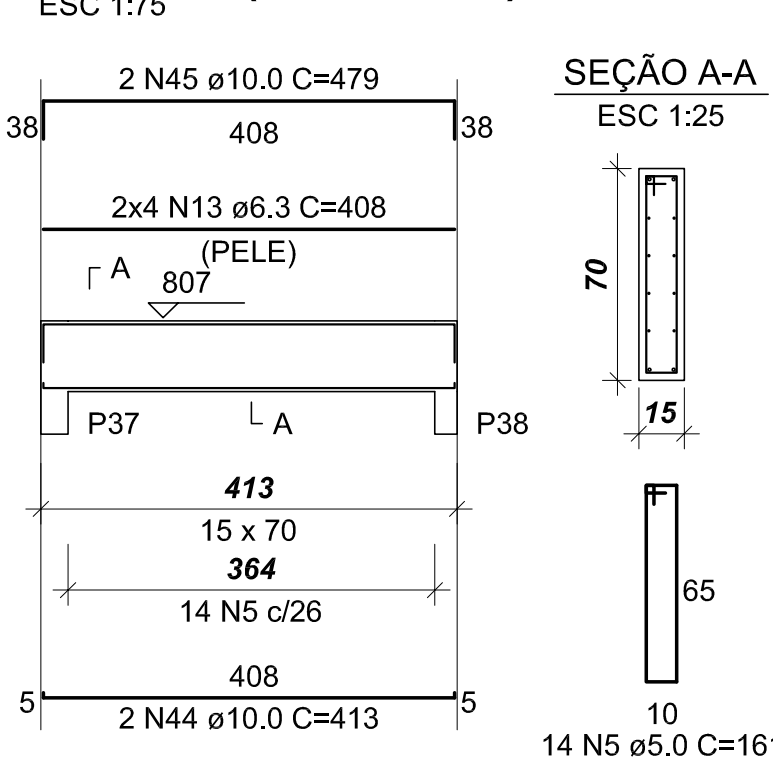
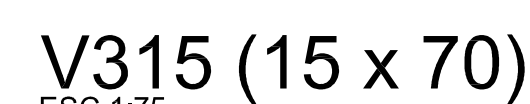
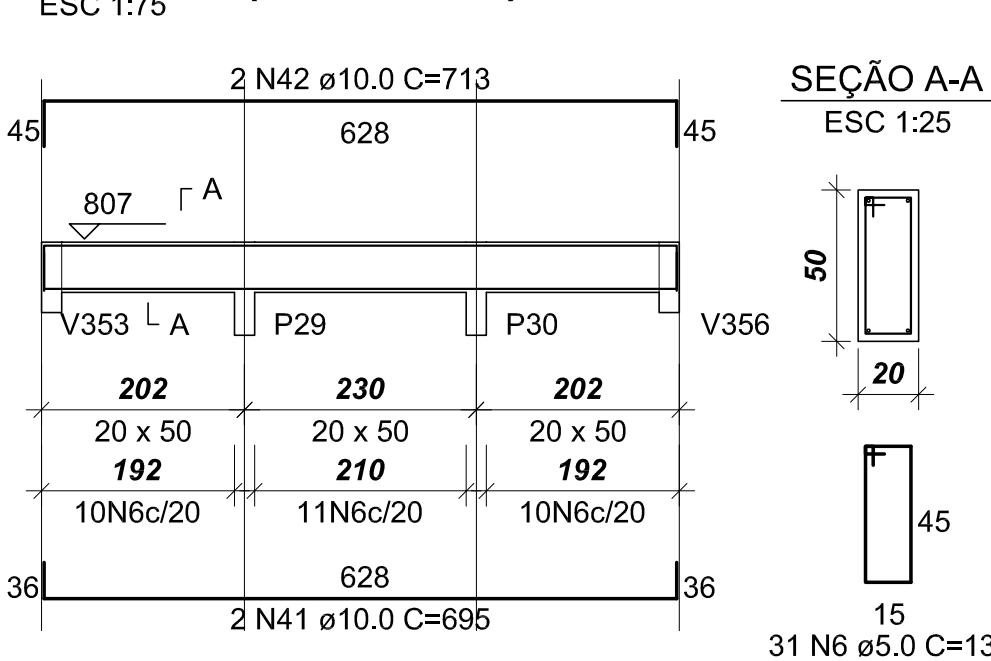
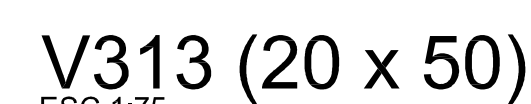
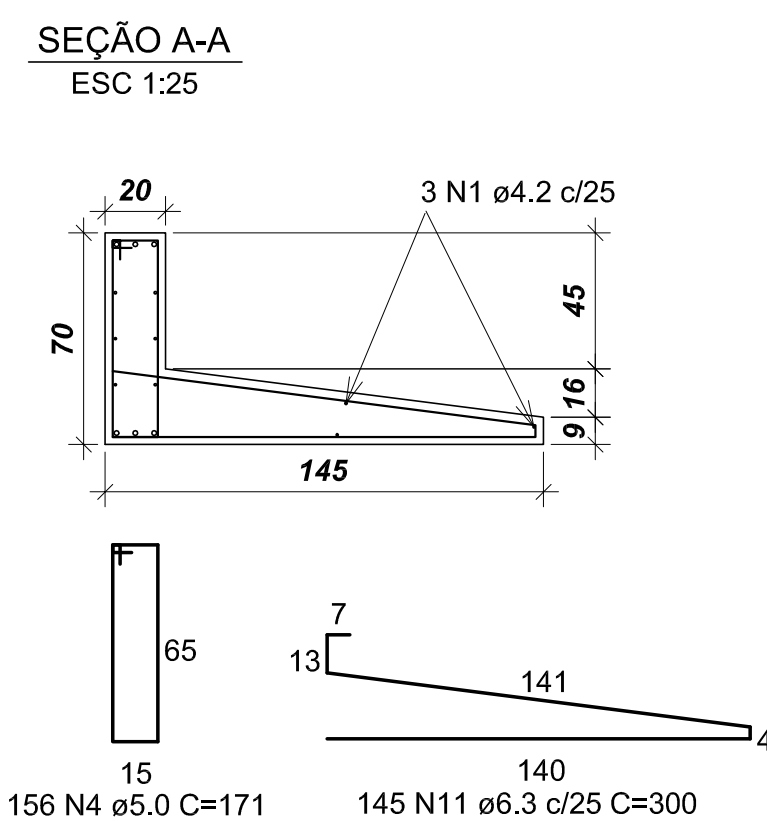
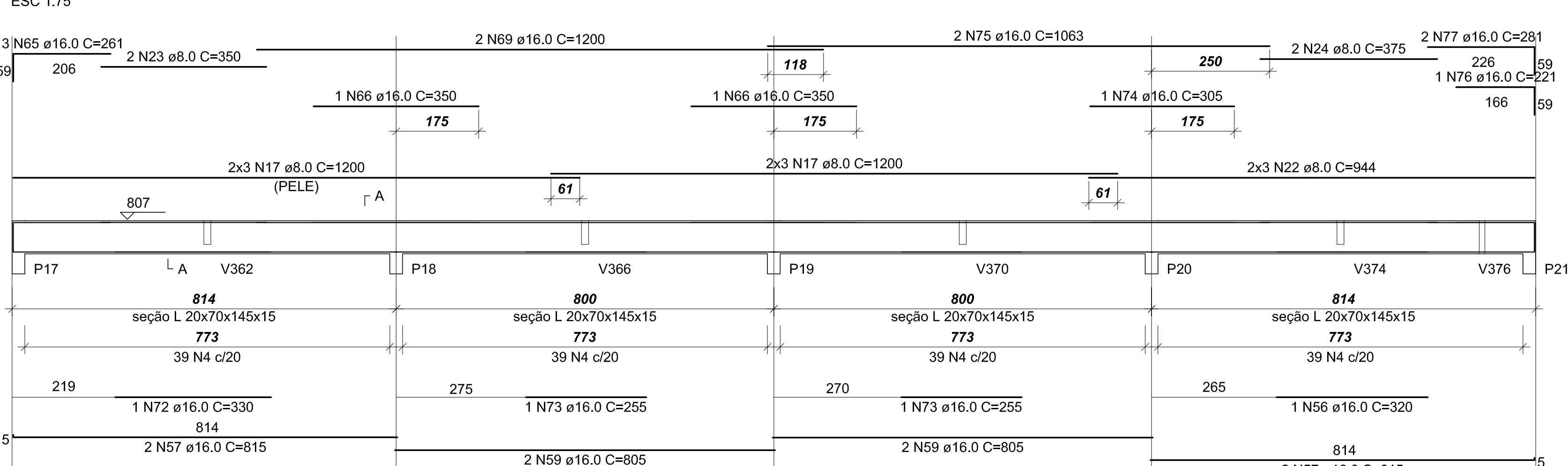
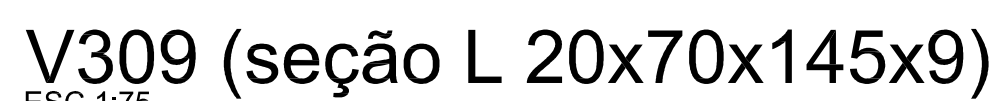
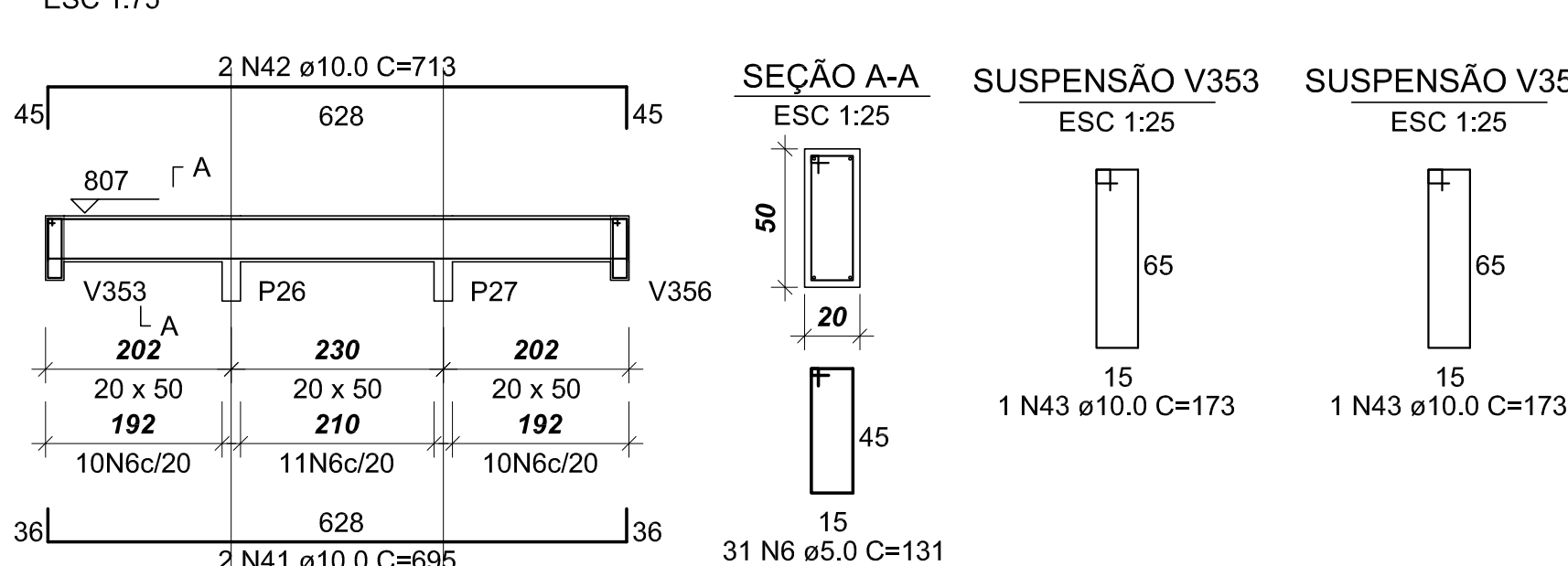
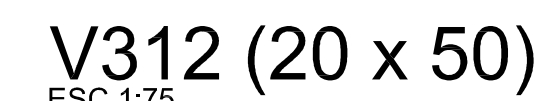
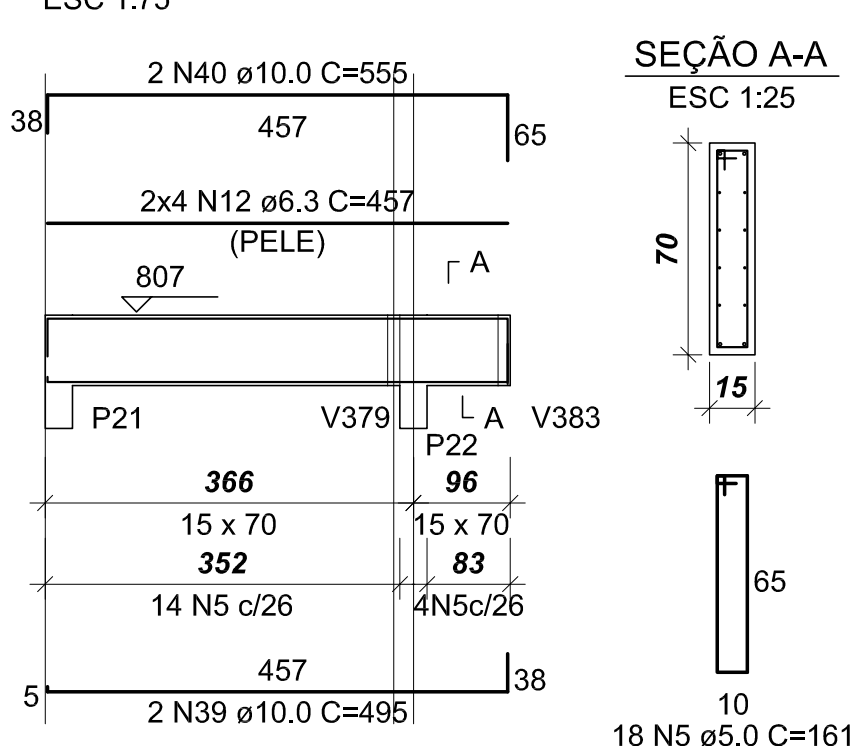
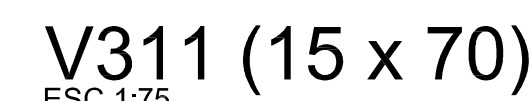
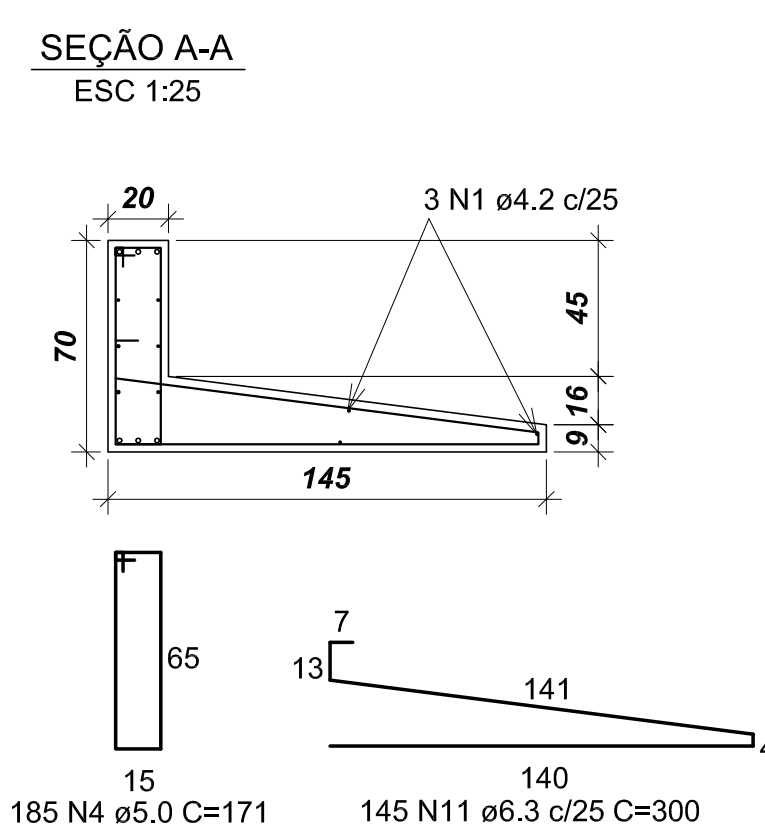
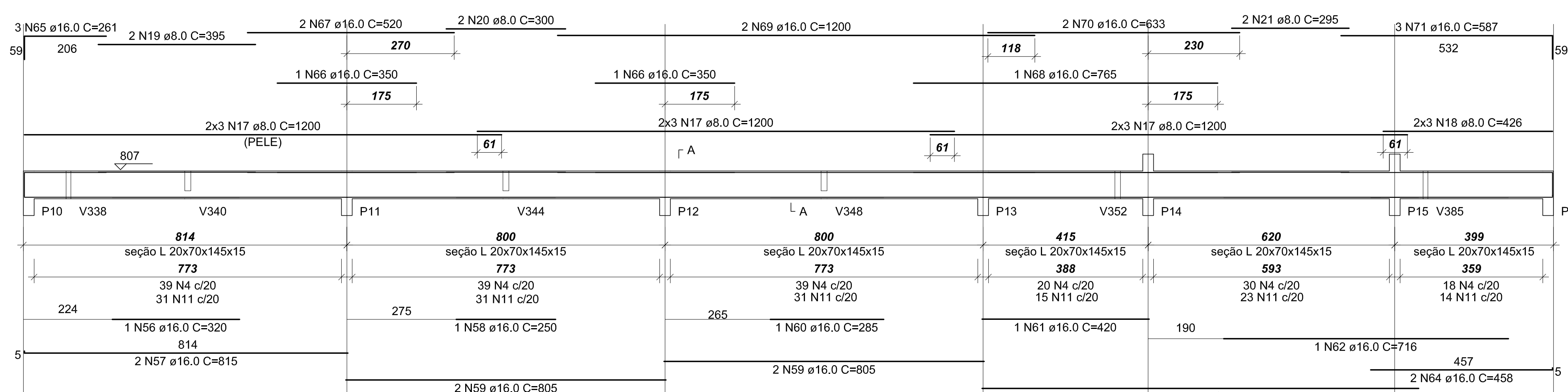
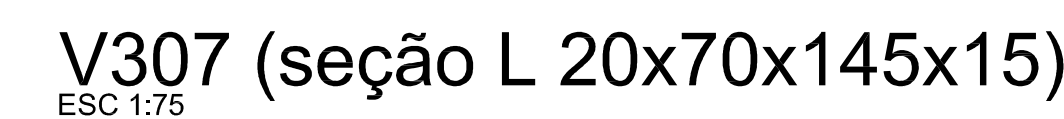




RELAÇÃO DO AÇO					
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	4,2	3	17800	53400
	2	5,0	65	155	10075
50	3	5,0	3	159	477
	4	5,0	68	17	11602
	5	5,0	88	161	14168
	6	5,0	62	131	8122
	7	6,3	10	270	810
	8	6,3	6	109	654
	9	6,3	14	92	1288
	10	6,3	10	106	11
	11	6,3	320	300	96000
	12	6,3	26	457	11882
	13	6,3	13	408	11
	14	6,3	8	175	1400
	15	6,3	8	158	1264
	16	8,0	2	122	11
	17	8,0	60	1200	72000
	18	8,0	6	426	2556
19	8,0	19	385	1500	
20	8,0	6	300	600	
21	8,0	2	295	590	
22	8,0	18	844	1440	
23	8,0	6	350	2100	
24	8,0	4	375	1500	
25	8,0	25	1296	1296	
26	8,0	6	435	2610	
27	8,0	6	320	630	
28	10,0	6	870	870	
29	10,0	6	205	1230	
30	10,0	2	139	278	
31	10,0	2	189	388	
32	10,0	2	187	374	
33	10,0	2	242	484	
34	10,0	2	182	364	
35	10,0	2	148	296	
37	10,0	2	292	584	
38	10,0	6	547	3282	
39	10,0	2	495	990	
40	10,0	40	1110	1110	
41	10,0	4	695	2780	
42	10,0	2	2852	5704	
43	10,0	2	173	346	
44	10,0	2	413	826	
45	10,0	2	958	1916	
46	10,0	4	1118	4472	
47	10,0	2	209	418	
48	10,0	4	113	455	
49	10,0	1	256	254	
50	10,0	1	255	255	
51	10,0	2	432	864	
52	10,0	3	731	393	
53	10,0	3	114	2142	
54	12,5	5	340	340	
55	12,5	2	532	1064	
56	16,0	3	320	960	
57	16,0	16	958	9580	
58	16,0	1	250	250	
59	16,0	16	805	12880	
60	16,0	6	265	265	
61	16,0	1	716	716	
62	16,0	1	1710	420	
63	16,0	2	1080	2160	
64	16,0	2	458	916	
65	16,0	15	261	3915	
66	16,0	8	350	2800	
67	16,0	4	200	2080	
68	16,0	1	765	765	
69	16,0	8	1200	9600	
70	16,0	2	633	1266	
71	16,0	3	587	1761	
72	16,0	3	330	660	
73	16,0	4	255	1020	
74	16,0	2	305	610	
75	16,0	1	1093	2186	
76	16,0	1	221	221	
77	16,0	1	281	562	
78	16,0	1	265	265	
79	16,0	1	270	270	
80	16,0	1	260	260	
81	16,0	2	1402	1402	
82	16,0	1	395	395	
83	16,0	1	360	360	
84	16,0	2	993	1986	
85	16,0	3	136	408	
86	16,0	3	325	325	
87	16,0	2	1108	2216	

RESUMO DO AÇO			
AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	8.0	1184.3	290.3
	6.3	970.2	383.4
	10.0	337.4	208.1
	12.5	14.0	13.5
	16.0	636.9	1006.2
CA60	4.2	534.0	58.3
	5.0	1499.1	230.8
PESO TOTAL			
CA50	1901.5		
CA60	289.1		

Vol. de concreto total (C-25) = 25,35 m³
 Área de forma total = 260,94 m²



101	22.07.2013	PROJETO ESTRUTURAL	
Nº	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO
 AS BUILT PROJECTS LTDA Rua Antônio do Rego, 1564 - Bloco Vito CEP 82560-435 - Curitiba - Paraná asbuiltprojects@gmail.com - (41)3008-4949			
FASE:			
PROJETO ESTRUTURAL			
CONFERIR MEDIDAS NA OBRA			
OBRA:			
PROPRIETÁRIO:	UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI	CNPJ	16.888.315/0001-57
FRANCA:	FERRAGENS DAS VIGAS: PAVIMENTO COBERTURA (I)		
AUTOR PROJETO:	CARLOS HENRIQUE DE SOUZA GONÇALVES CREIA 7982/D - Pr.		
ESCALA: INDICADA		DESENHO: EQUIPE	
VERSÃO: VERSÃO 1	DATA: 22/07/2013	ÁREA CONSTRUÍDA: 30356,63m²	FOLHA: EST 18/22
ARQUIVO:			