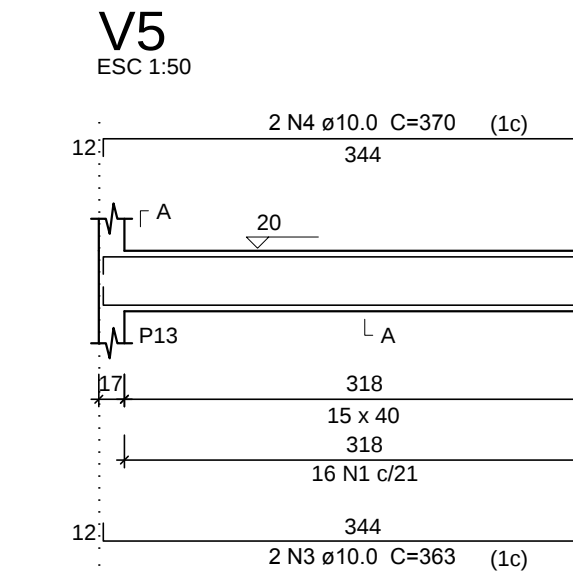
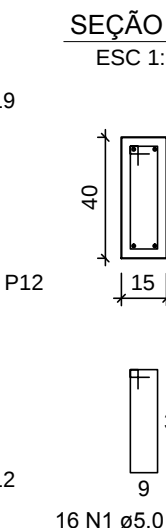
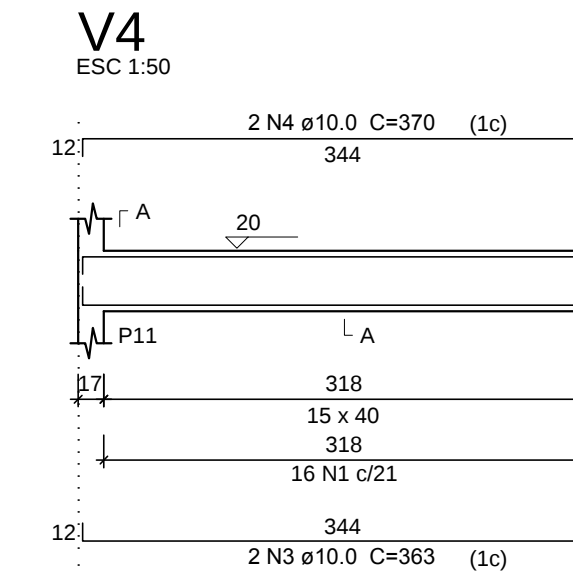
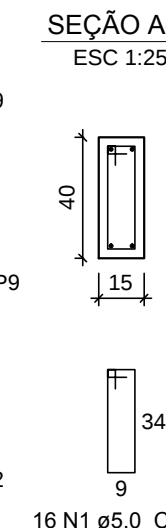
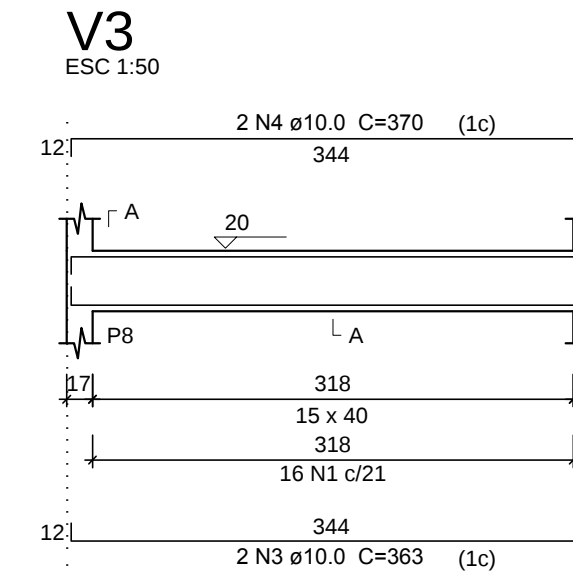
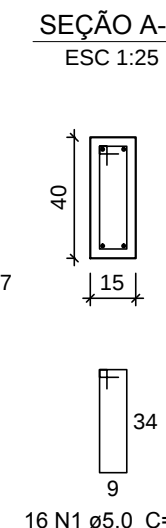
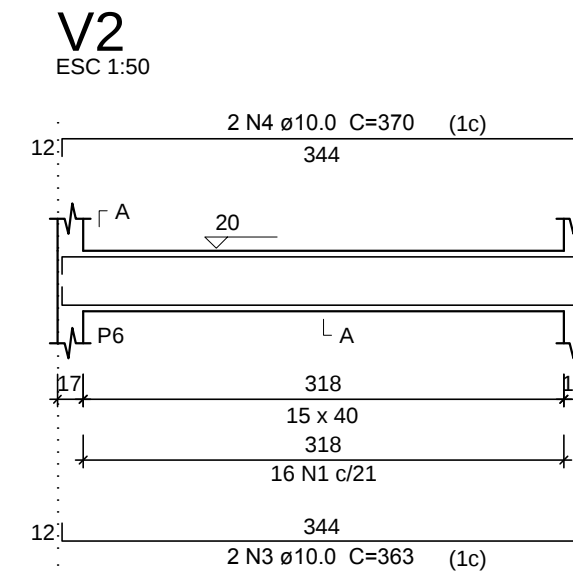
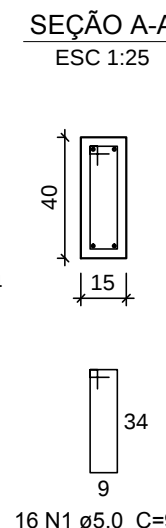
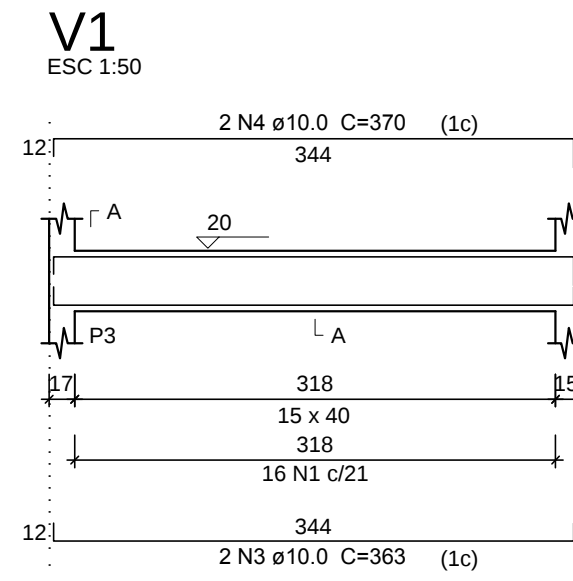
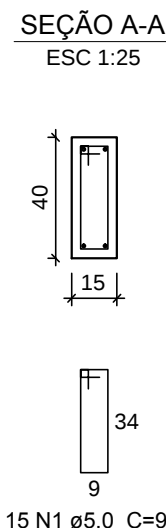
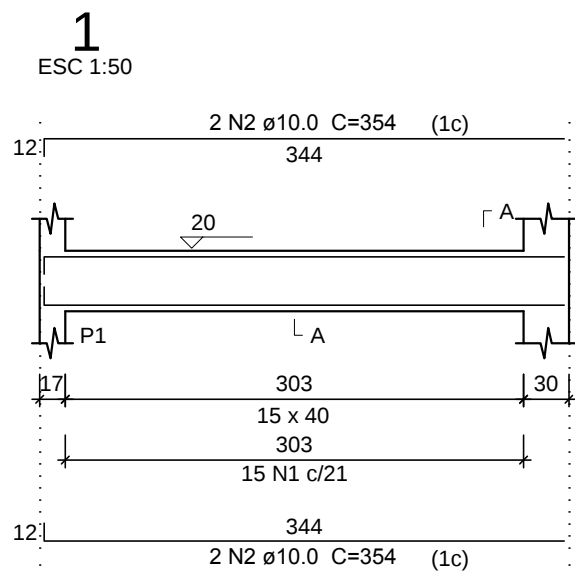
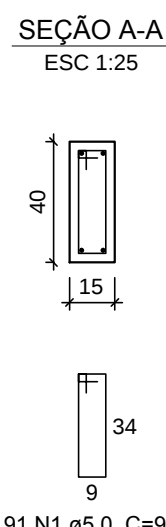
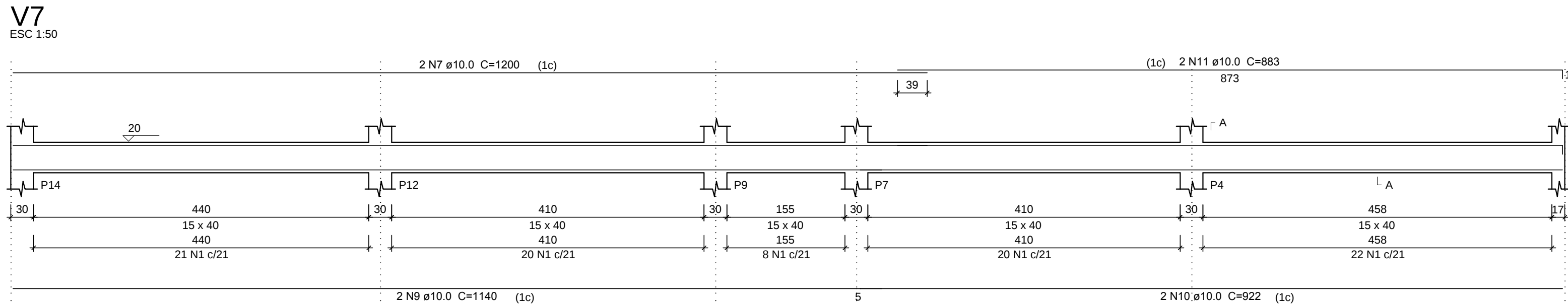
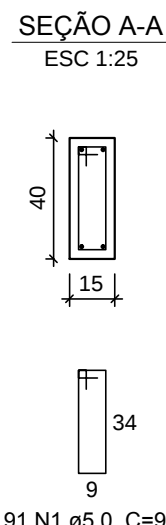
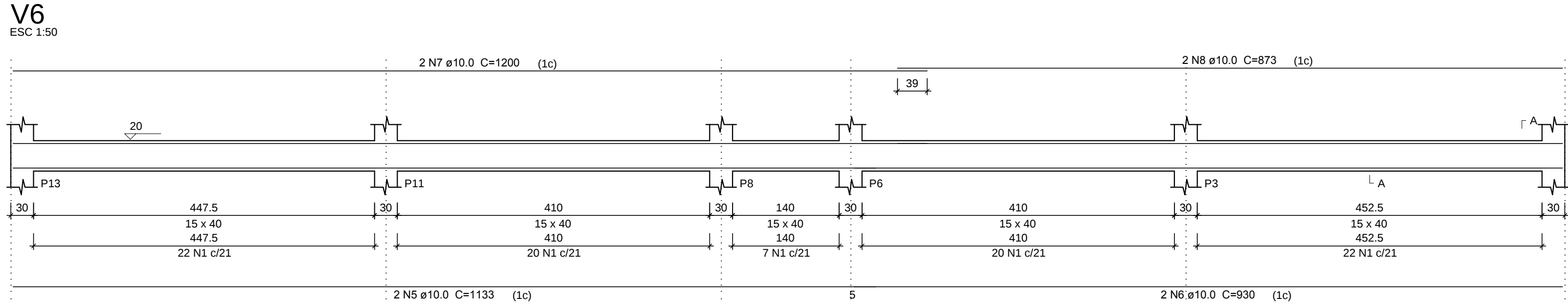
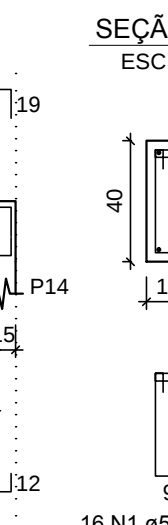
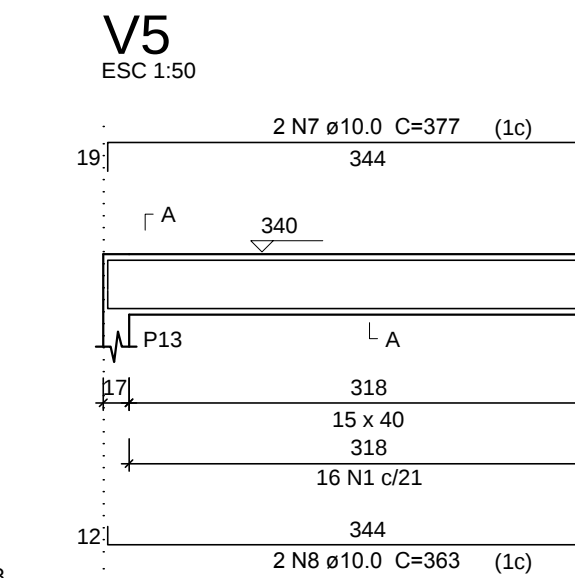
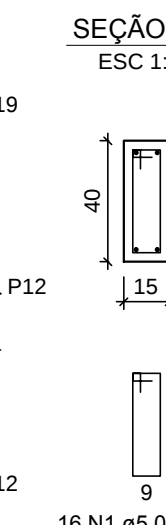
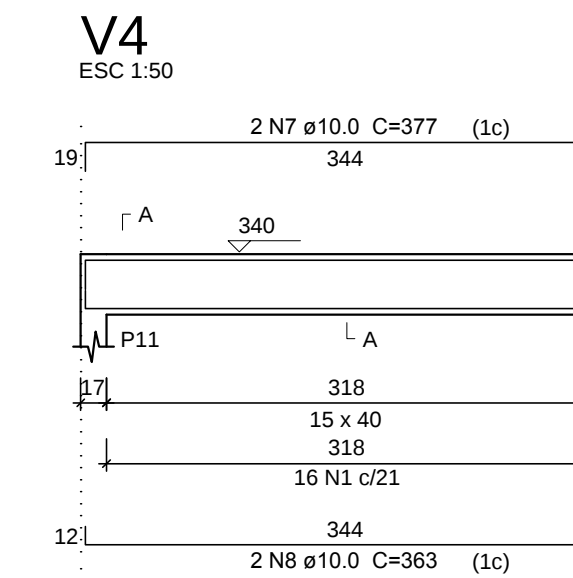
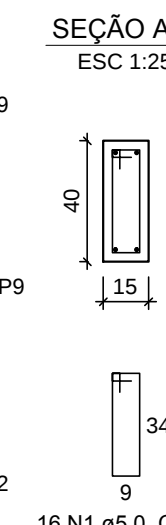
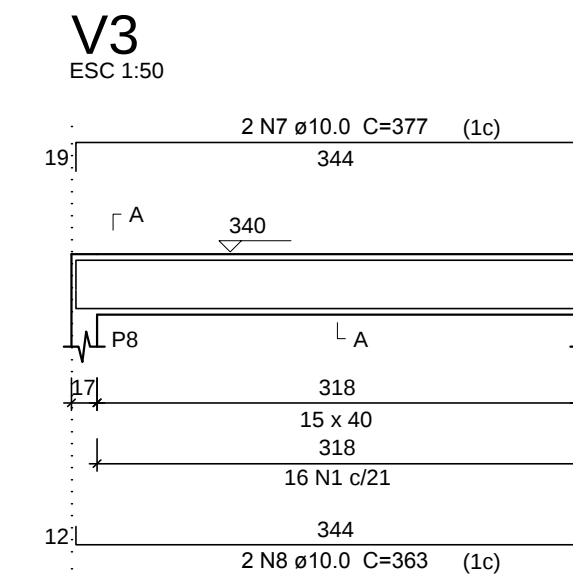
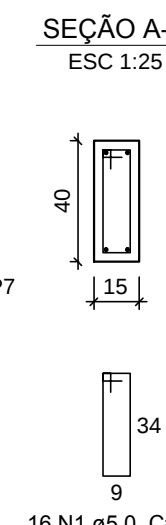
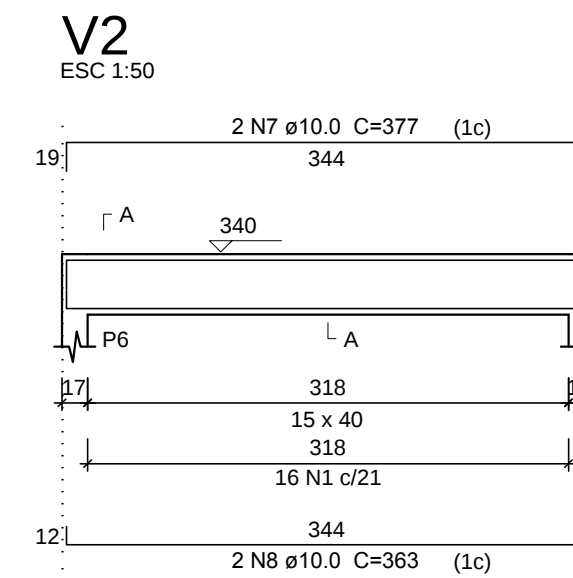
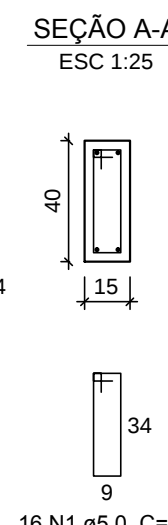
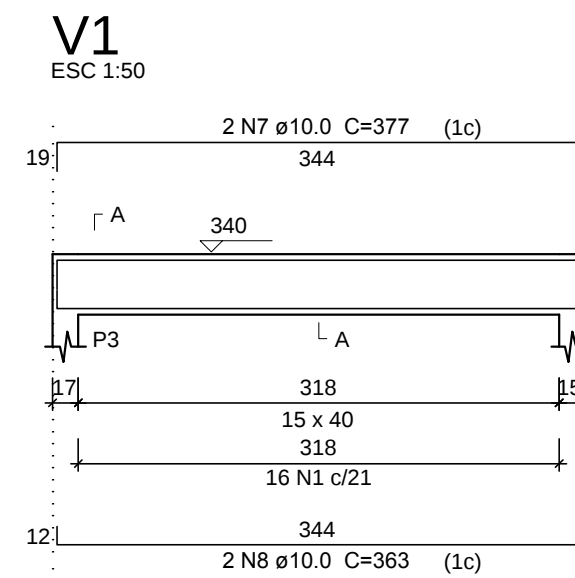
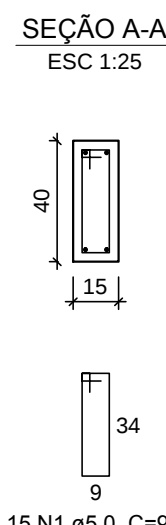
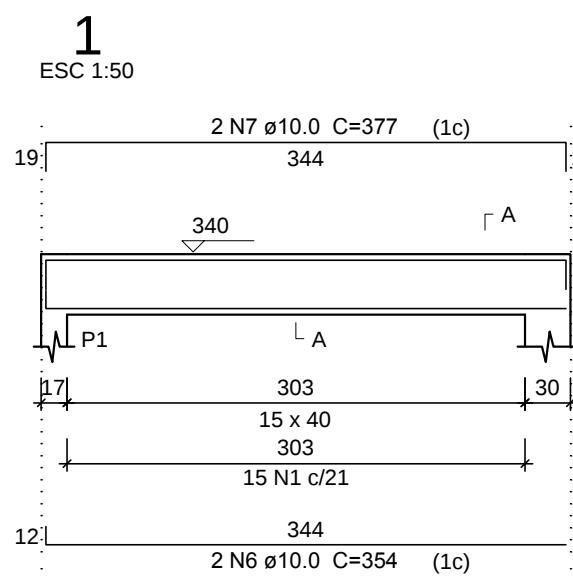


Relação do aço

1 V3 V6	V1 V4 V7	V2 V5			
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	277	98	27146
CA50	2	10.0	4	354	1416
	3	10.0	10	363	3630
	4	10.0	10	370	3700
	5	10.0	2	1133	2266
	6	10.0	2	930	1860
	7	10.0	4	1200	4800
	8	10.0	2	873	1746
	9	10.0	2	1140	2280
	10	10.0	2	922	1844
	11	10.0	2	883	1766



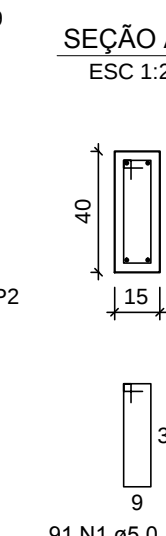
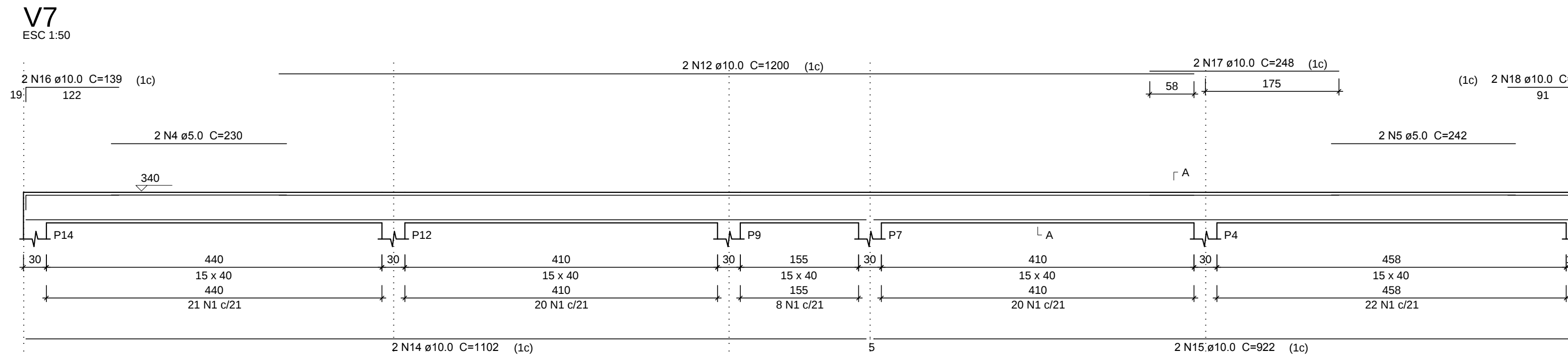
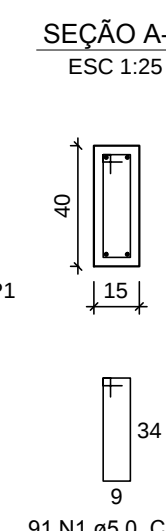
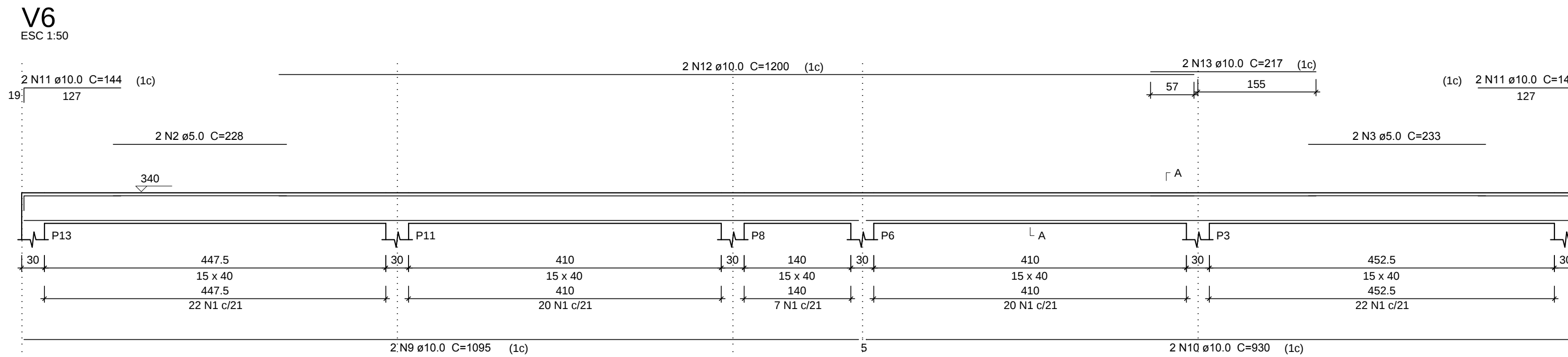
VIGAS BALDRAME



Relação do aço

1	V1	V2
V3	V4	V5
V6	V7	

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	277	98	2714
	2	5.0	2	228	45
	3	5.0	2	233	46
	4	5.0	2	230	46
CA50	5	5.0	2	242	48
	6	10.0	2	354	70
	7	10.0	12	377	452
	8	10.0	10	363	363
	9	10.0	2	1095	219
	10	10.0	2	930	186
	11	10.0	4	144	57
	12	10.0	4	1200	480
	13	10.0	2	217	43
	14	10.0	2	1102	220
	15	10.0	2	922	184
	16	10.0	2	139	27
	17	10.0	2	248	49
	18	10.0	2	108	21



VIGAS COBERTURA

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	237.6	161.1
CA60	5.0	290.2	49.2
PESO TOTAL			
CA50		161.1	
CA60		49.2	

Vol. de concreto total (C-30) = 3.71 m³
Área de forma total = 58.71 m²

MUNICÍPIO DE ARAUCÁRIA
SECRETARIA MUNICIPAL DE OBRAS PÚBLICAS - SMOP

TÍTULO
QUADRA POLIESPORTIVA - JD CALIFORNIA

REFERÊNCIA
PROJETO ESTRUTURAL - VESTIÁRIO
VIGAS BALDRAME E COBERTURA

REQUERENTE
PREFEITURA DO MUNICÍPIO DE ARAUCÁRIA

RESP. TÉCNICO PELO PROJETO
FABIO ALCEU FERNANDES

MODIFICADO EM
/ /
/ /
/ /

LOCAL
CALIFORNIA

ESCALA
INDICADA

DESENHO
DATA
OUT/15

FOLHA
03/04