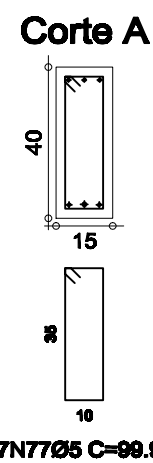
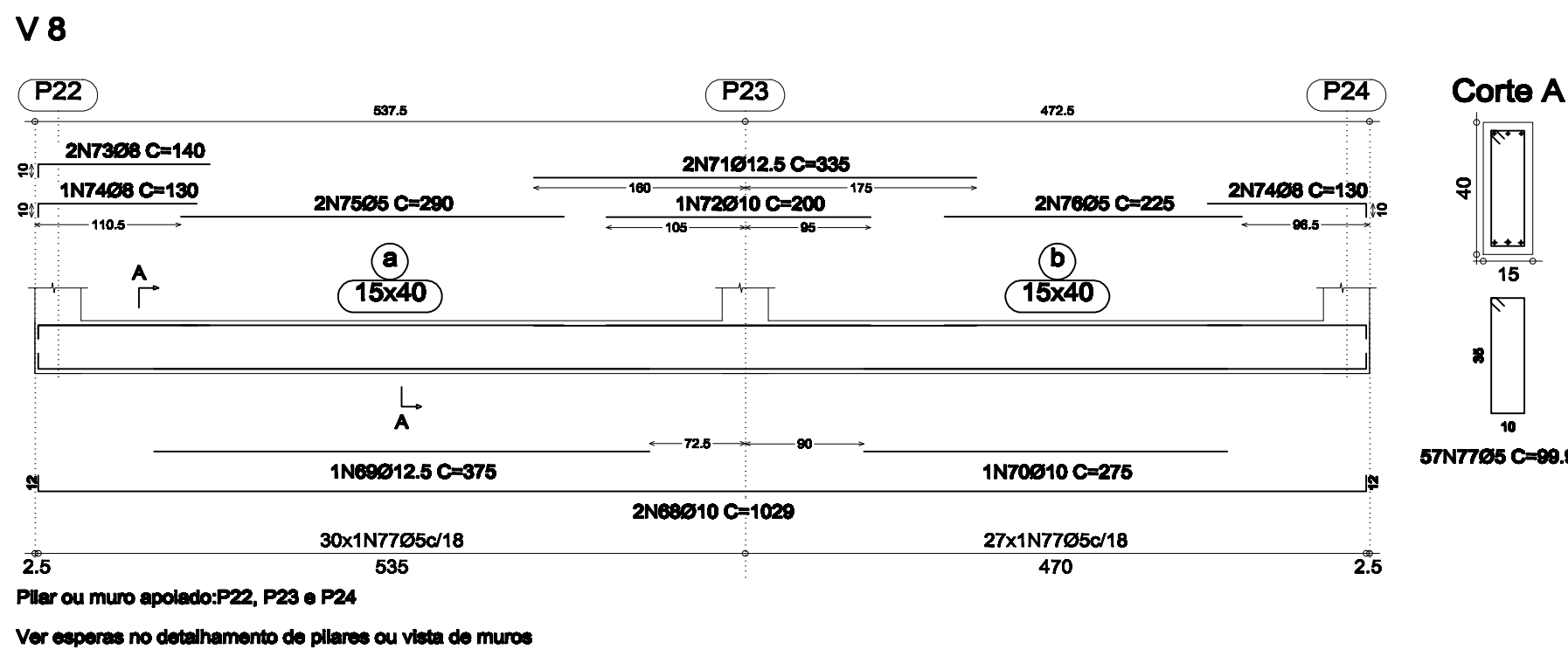
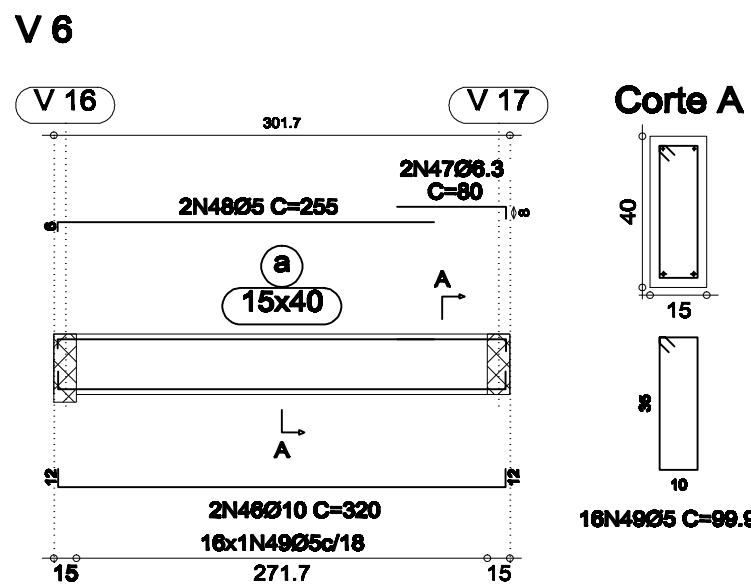
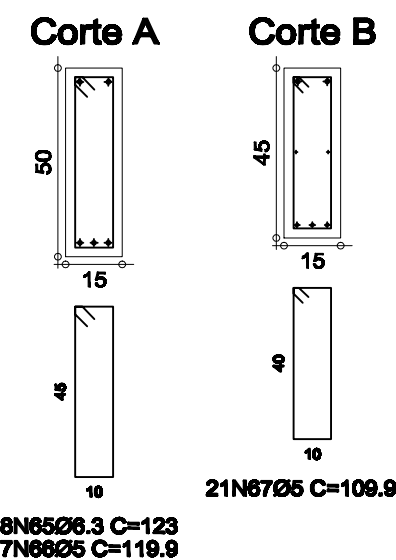
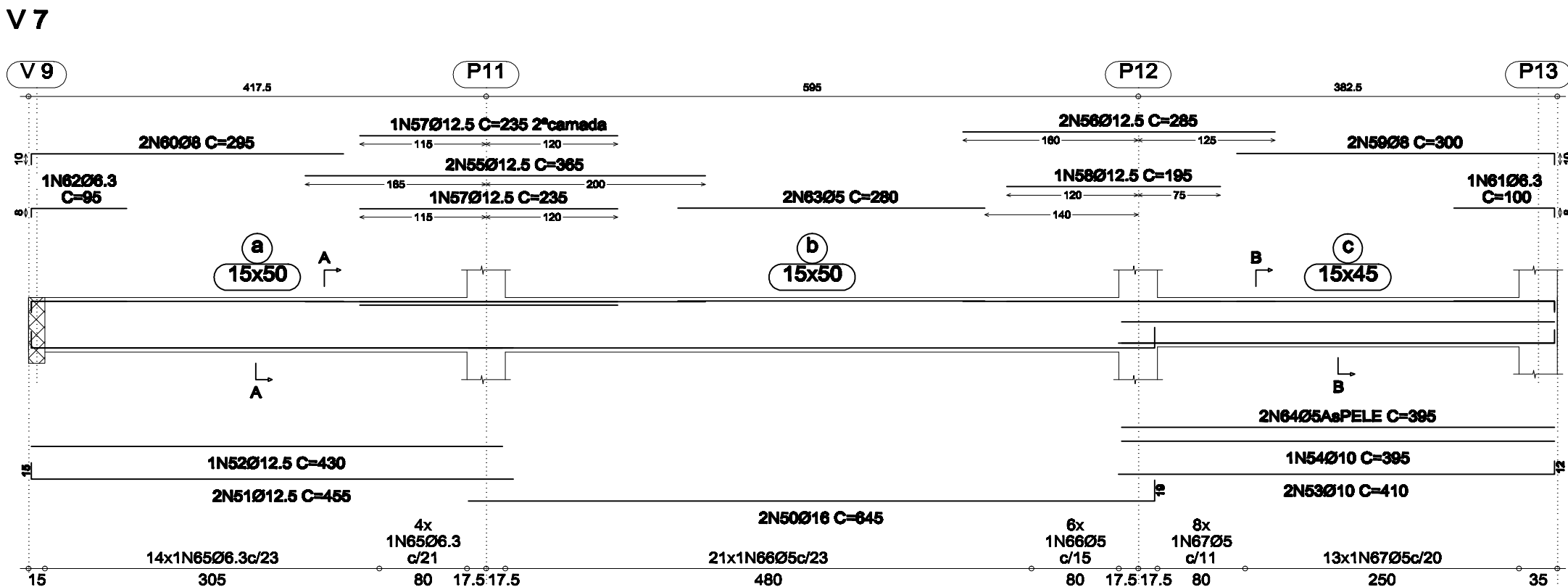
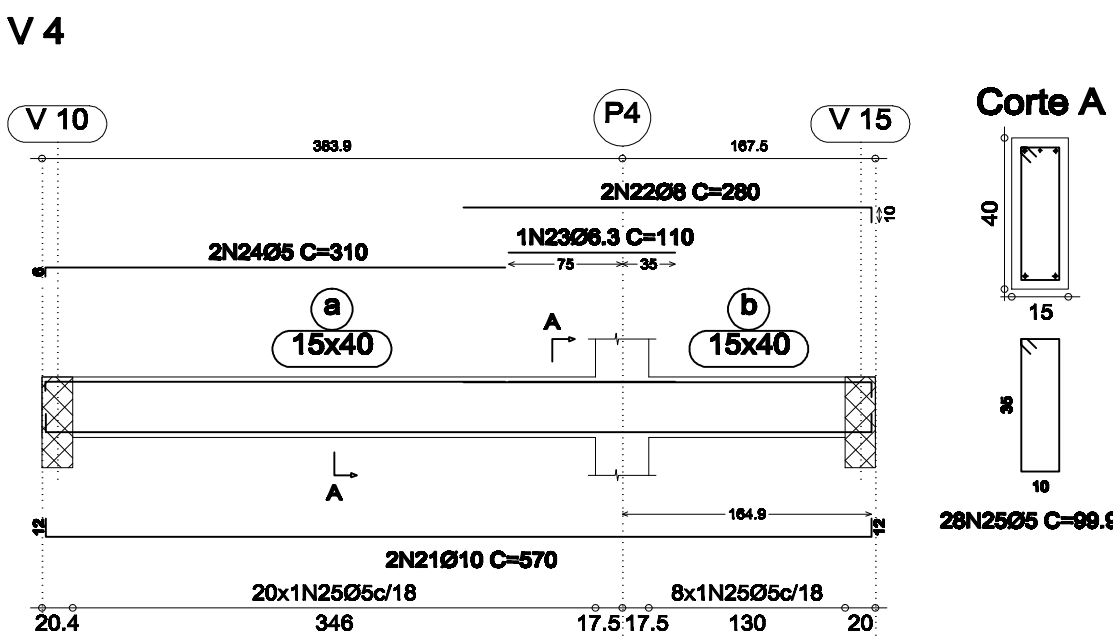
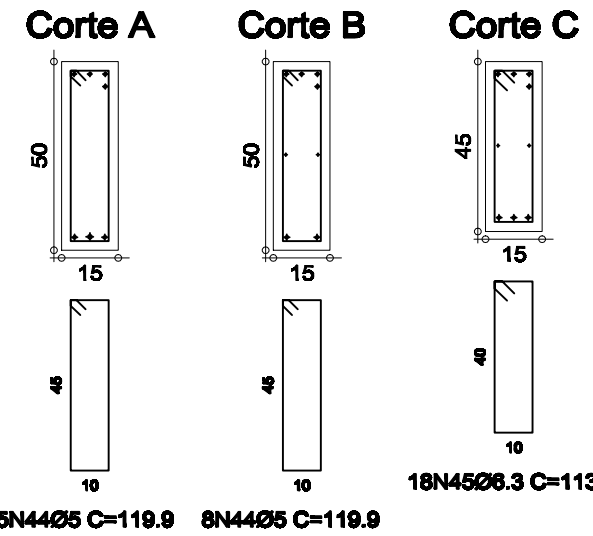
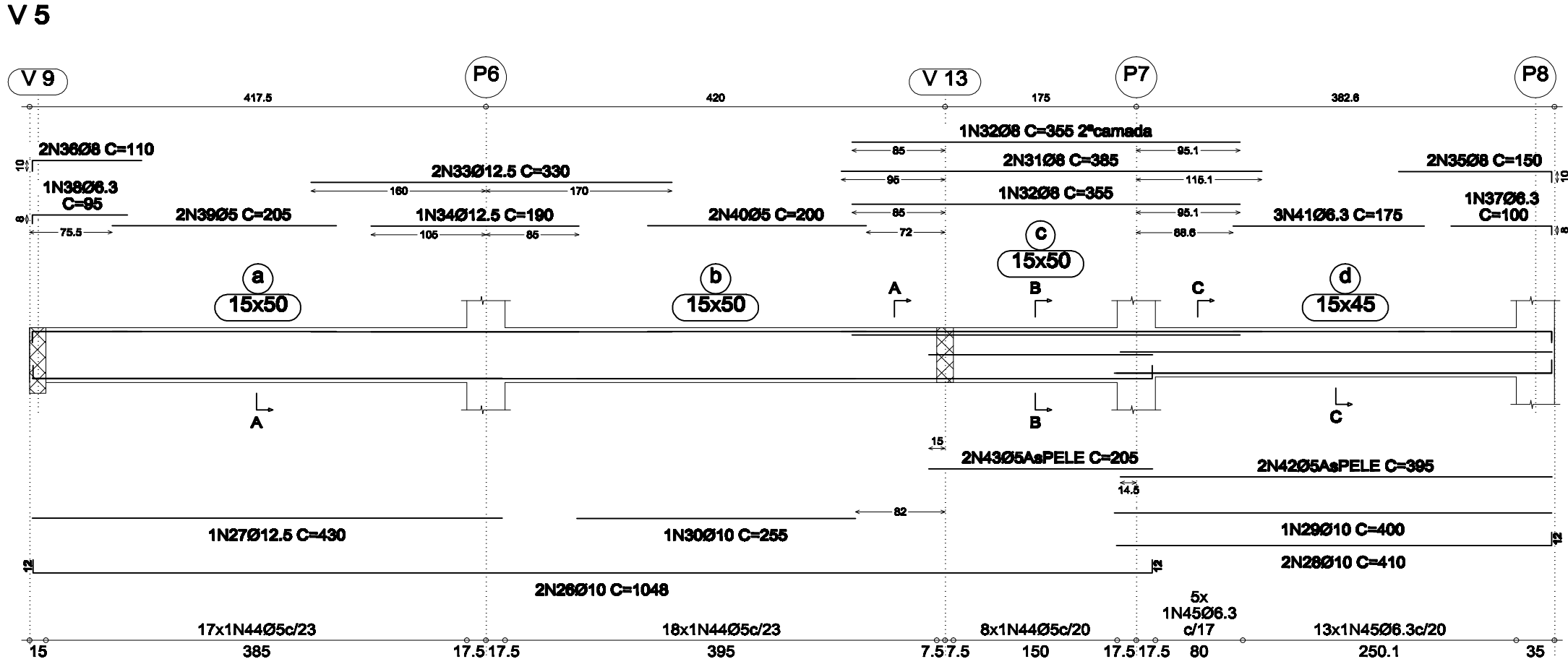
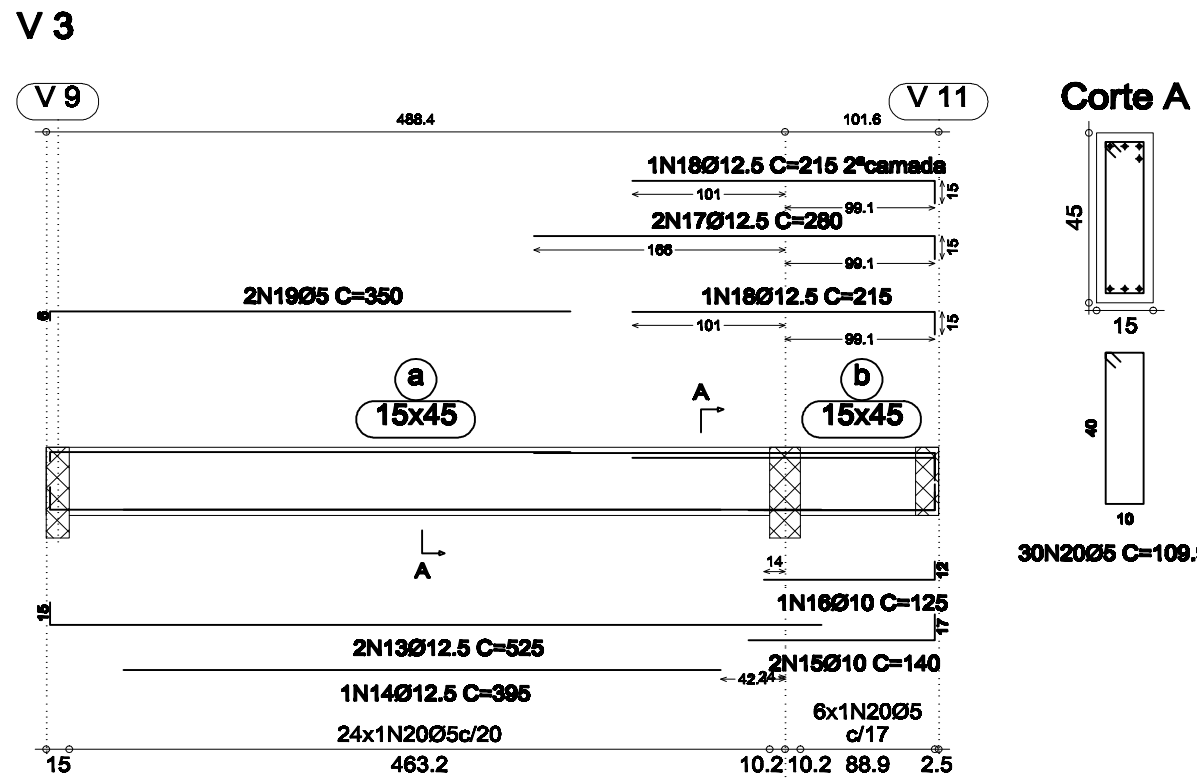
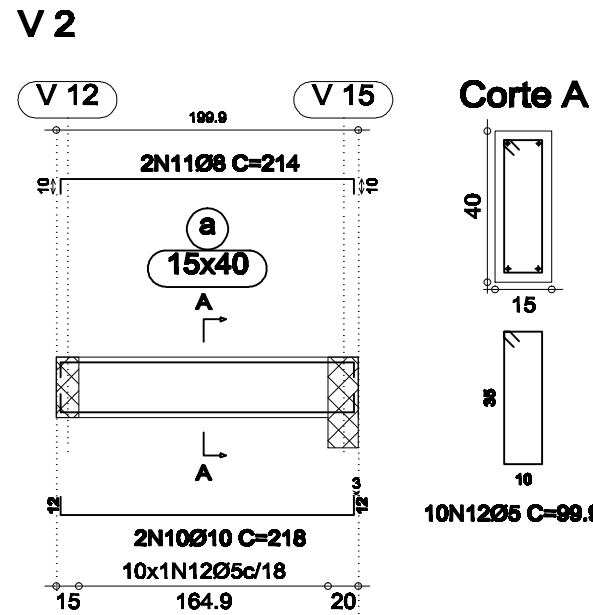
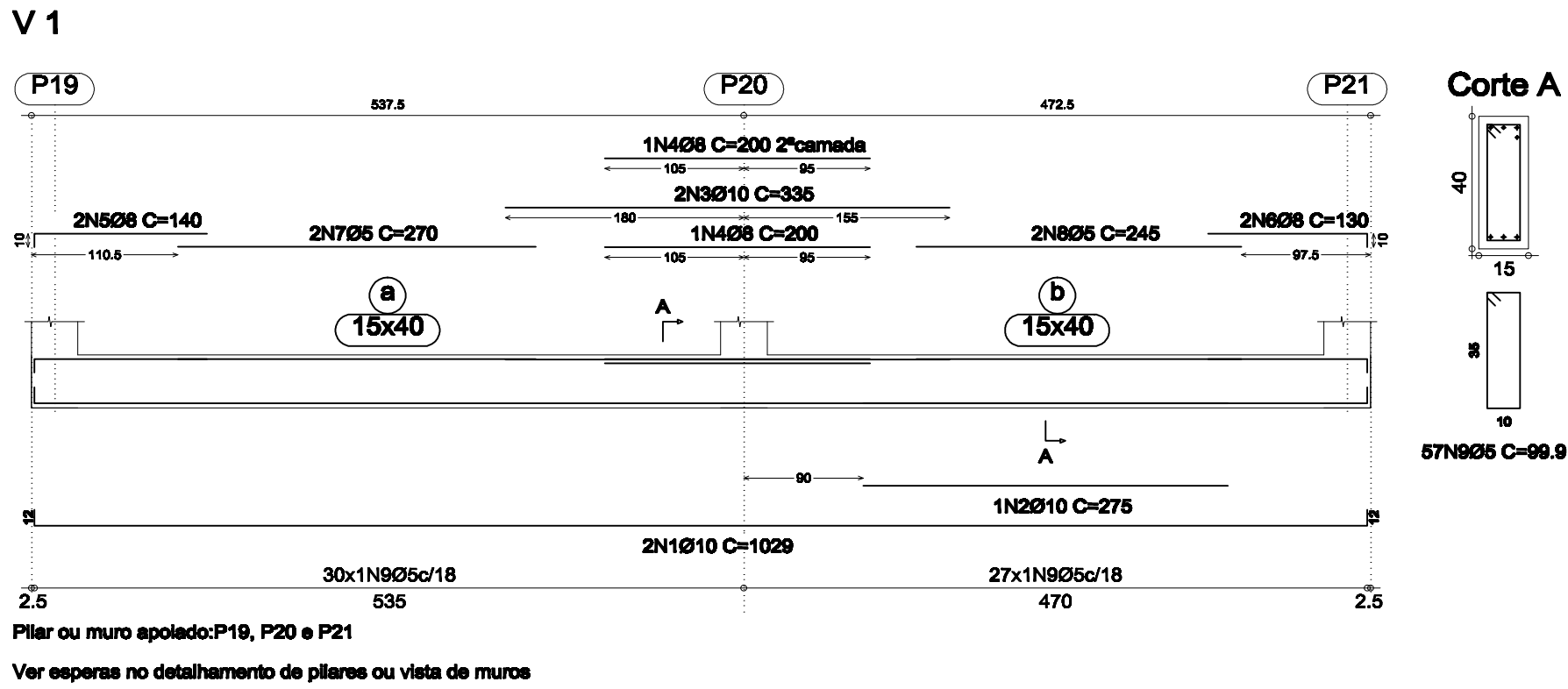


1 Pavto Desenho de vigas Concreto: C30, usina.rigor Apo: CA-50-A e CA-60-B Escala Vigas: 1:50 Escala seções: 1:20			
Resumo Apo 1 Pavto Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A Ø6.3	204.3	56	1176
Ø8	84.0	36	
Ø10	427.4	295	
Ø12.5	196.3	212	
Ø16	58.0	100	
CA-60-B Ø5	175.3	477	119
Total	688.7	119	



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 1	1	Ø10	2	12	1005	12	1029	2058	12.9	
	2	Ø10	1		275		275	275	1.7	
	3	Ø10	2		335		335	670	4.2	
	4	Ø8	2		200		200	400	1.8	
	5	Ø8	2	10	130		140	260	1.1	
	6	Ø8	2		120	10	130	260	1.0	
	7	Ø5	2		270		270	540		0.8
	8	Ø5	2		245		245	490		0.8
	9	Ø5	57		100		100	5700		8.9
Total+10%:									24.8	11.6
V 2	10	Ø10	2	12	194	12	218	436	2.7	
	11	Ø8	2	10	194	10	214	428		1.8
	12	Ø5	10				100	1000		
Total+10%:									4.8	1.8
V 3	13	Ø12.5	2	15	510		525	1050	10.3	
	14	Ø12.5	1		395		395	395	3.9	
	15	Ø10	2		123	17	140	280	1.8	
	16	Ø10	1		113	12	125	125	0.8	
	17	Ø12.5	2		285	15	280	560	5.5	
	18	Ø12.5	2		200	15	215	430	4.2	
	19	Ø5	2	6	344		350	700		1.1
	20	Ø5	30				110	3300		5.2
Total+10%:									29.2	6.9
V 4	21	Ø10	2	12	546	12	570	1140	7.2	
	22	Ø8	2		270	10	280	560	2.2	
	23	Ø6.3	1		110		110	220	0.3	
	24	Ø5	2	6	304		310	620		1.0
	25	Ø5	28				100	2800		4.4
Total+10%:									10.7	5.9
V 5	26	Ø10	2	12	1024	12	1048	2096	13.2	
	27	Ø12.5	1		430		430	430	4.2	
	28	Ø10	2		388	12	410	820	5.1	
	29	Ø10	1		400		400	400	2.5	
	30	Ø10	1		255		255	255	1.6	
	31	Ø8	2		385		385	770	3.0	
	32	Ø8	2		355		355	710	2.8	
	33	Ø12.5	2		330		330	660	6.5	
	34	Ø12.5	1		190		190	190	1.9	
	35	Ø5	2		140	10	150	300	1.2	
	36	Ø8	2	10	100		110	220	0.9	
	37	Ø6.3	1		92	8	100	100	0.2	
	38	Ø6.3	1	8	87		95	95	0.2	
	39	Ø5	2		205		205	410		0.6
	40	Ø5	2		200		200	400		0.6
	41	Ø6.3	3		175		175	525		1.3
	42	Ø5	2		395		395	790		1.2
	43	Ø5	2		205		205	410		0.6
	44	Ø5	43				120	5160		8.1
	45	Ø6.3	18				113	2034		5.0
Total+10%:									54.6	12.2
V 6	46	Ø10	2	12	296	12	320	640	4.0	
	47	Ø6.3	2		72	8	80	160		0.4
	48	Ø5	2	6	249		255	510		0.8
	49	Ø5	16				100	1600		2.5
Total+10%:									4.8	3.6
V 7	50	Ø16	2		626	19	645	1290	20.3	
	51	Ø12.5	2	15	440		455	910	8.9	
	52	Ø12.5	1		430		430	430	4.2	
	53	Ø10	2		388	12	410	820	5.1	
	54	Ø10	1		395		395	395	2.5	
	55	Ø12.5	2		365		365	730	7.2	
	56	Ø12.5	2		285		285	570	5.6	
	57	Ø12.5	2		235		235	470	4.6	
	58	Ø12.5	1		195		195	195	1.9	
	59	Ø8	2		290	10	300	600	2.4	
	60	Ø8	2	10	285		295	590	2.3	
	61	Ø6.3	1		92	8	100	100	0.2	
	62	Ø6.3	1	8	87		95	95	0.2	
	63	Ø5	2		280		280	560		0.9
	64	Ø5	2		395		395	790		1.2
	65	Ø6.3	18				123	2214		5.5
	66	Ø5	27				120	3240		5.1
	67	Ø5	21				110	2310		3.6
Total+10%:									78.0	11.9
V 8	68	Ø10	2	12	1005	12	1029	2058	12.9	
	69	Ø12.5	1		375		375	375	3.7	
	70	Ø10	1		275		275	275	1.7	
	71	Ø12.5	2		335		335	670	6.6	
	72	Ø10	1		200		200	200	1.3	
	73	Ø8	2	10	130		140	280	1.1	
	74	Ø8	3	10	120		130	390	1.5	
	75	Ø5	2		290		290	580		0.9
	76	Ø5	2		225		225	450		0.7
	77	Ø5	57				100	5700		8.9
Total+10%:									31.7	11.6
									Ø5: 0.0	65.5
									Ø6.3: 14.7	
									Ø8: 25.1	0.0
									Ø10: 89.3	0.0
									Ø12.5: 87.2	0.0
									Ø16: 22.3	0.0
									Total: 238.6	65.5



PROJETO ESTRUTURAL

OBRA 8º BATALHÃO DE BOMBEIROS MILITAR - CONV. PMT
AV. PATRÍCIO LIMA, 804 - HUMAITÁ - TUBARÃO - S.C.

ASSUNTO VIGAS 1º PAVIMENTO

ÁREA: 610,43 M²

PRANCHA C6

ESC.: INDICADA
DATA: MARÇO / 2018
PROJ.: 18-003

EQUIPE TÉCNICA CHARLES MENDES DE SOUZA CREA/SC 41.411-4

REVISÃO Nº DATA COMENTÁRIO COLABORADOR

00 19/02/2018 EMISSÃO PARCIAL ENG. CHARLES

01 19/03/2018 EMISSÃO FINAL ENG. CHARLES

CHARLES MENDES DE SOUZA PROPRIETÁRIO

R. Cel. José Martins Cabral, 42 - SI 1 - Centro - Tubarão - S.C.

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