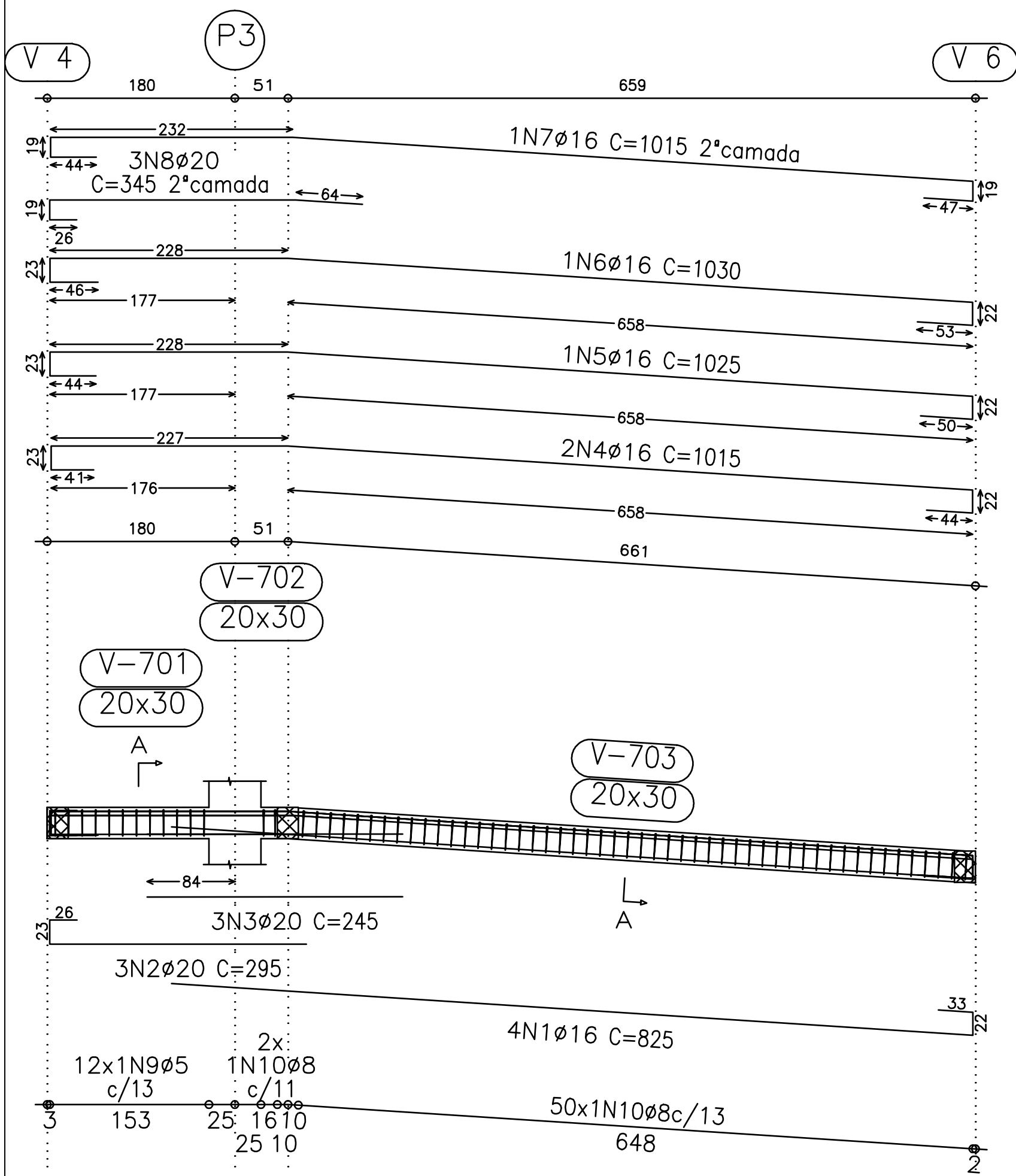
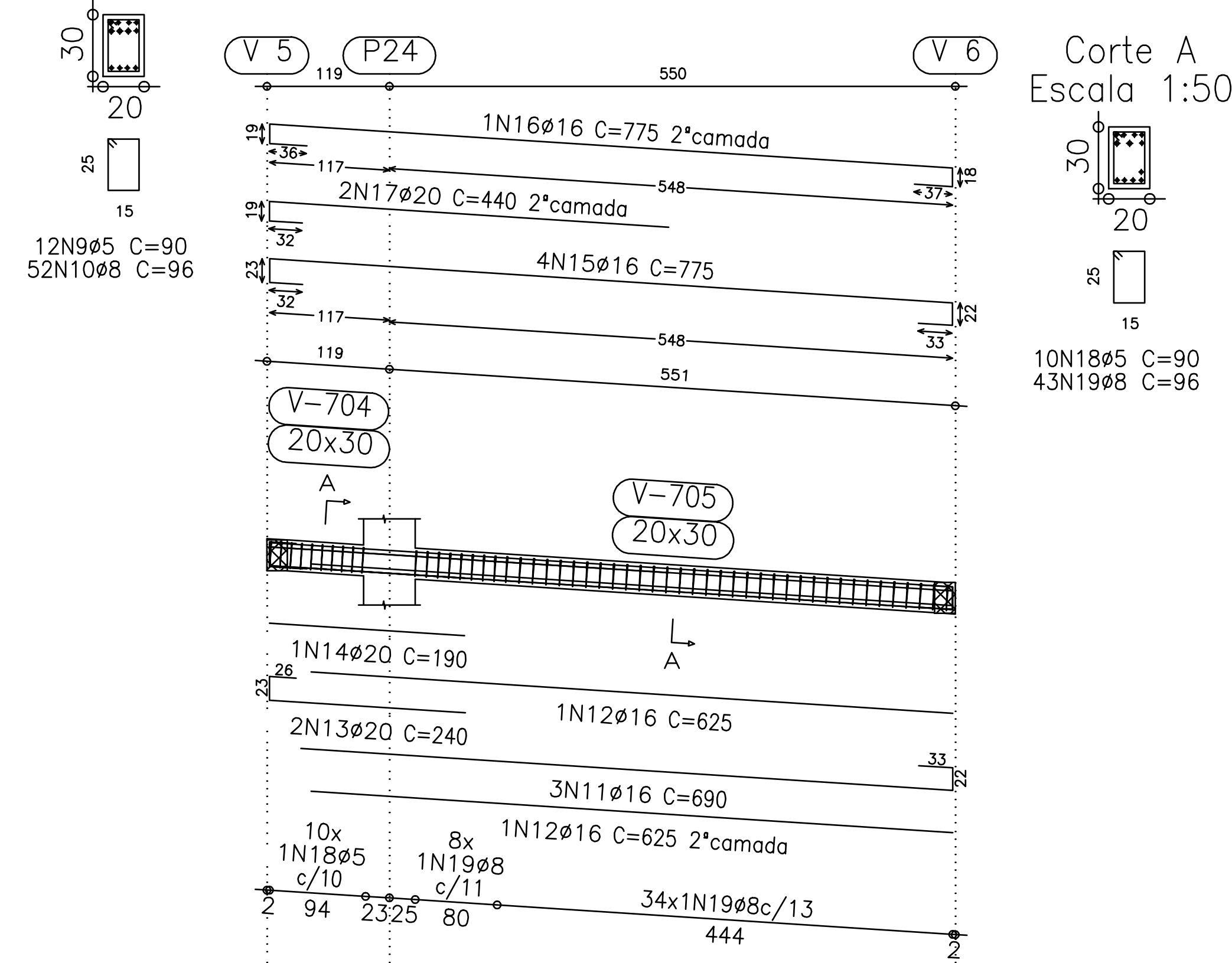


V 1
Escala 1:100

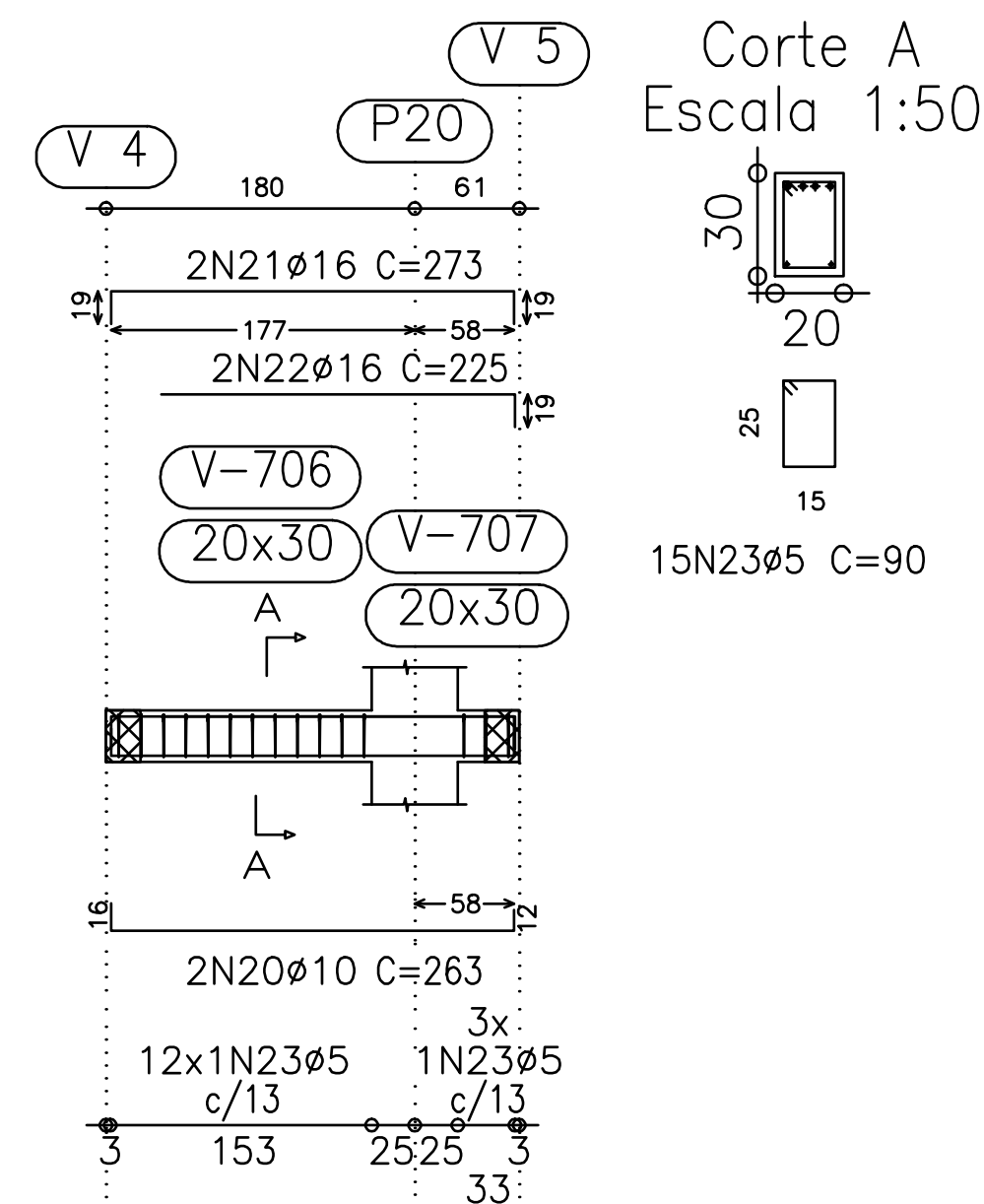


Corte A V 2
Escala 1:50Escala 1:100

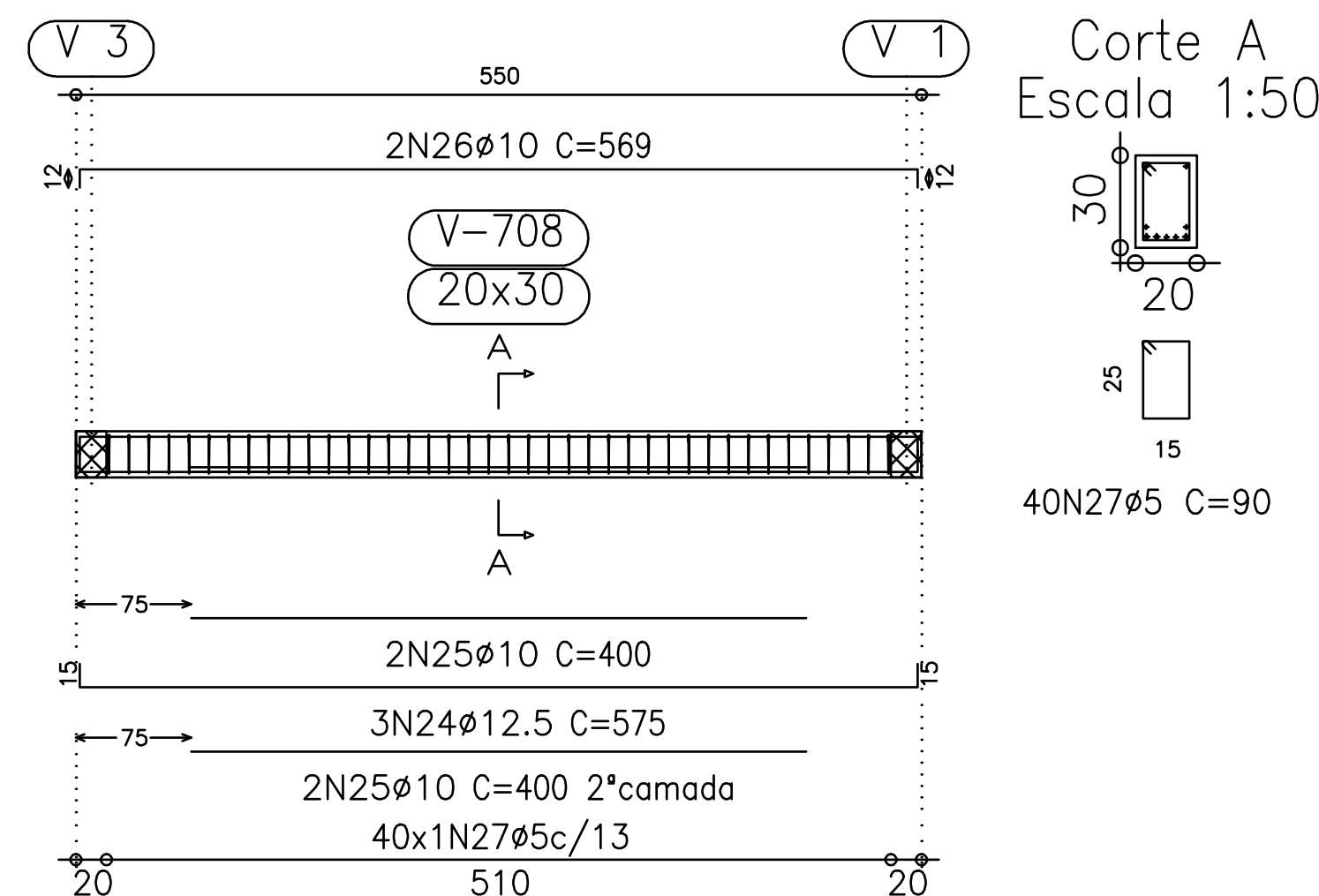


Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 1	1	ø16	4		770	55	825	3300	51.8	1.7
	2	ø20	3	49	246		295	885	21.9	
	3	ø20	3		245		245	735	18.2	
	4	ø16	2	64	885	66	1015	2030	31.9	
	5	ø16	1	67	886	72	1025	1025	16.1	
	6	ø16	1	69	886	75	1030	1030	16.2	
	7	ø16	1	63	886	66	1015	1015	15.9	
	8	ø20	3	45	300		345	1035	25.6	
	9	ø5	12				90	1080		
	10	ø8	52				96	4992	19.6	
Total+10%:									238.9	1.9
V 2	11	ø16	3		635	55	690	2070	32.5	1.4
	12	ø16	2		625		625	1250	19.6	
	13	ø20	2	49	191		240	480	11.9	
	14	ø20	1		190		190	190	4.7	
	15	ø16	4	55	665	55	775	3100	48.7	
	16	ø16	1	55	665	55	775	775	12.2	
	17	ø20	2	51	389		440	880	21.8	
	18	ø5	10				90	900		
	19	ø8	42				96	4032	15.8	
Total+10%:									183.9	1.5
V 3	20	ø10	2	16	235	12	263	526	3.3	2.1
	21	ø16	2	19	235	19	273	546	8.6	
	22	ø16	2		206	19	225	450	7.1	
	23	ø5	15				90	1350		
Total+10%:									20.9	2.3
V 4	24	ø12.5	3	15	545	15	575	1725	16.9	5.7
	25	ø10	4		400		400	1600	10.0	
	26	ø10	2	12	545	12	569	1138	7.1	
	27	ø5	40				90	3600		
Total+10%:									37.4	6.3
ø5:									0.0	12.0
ø8:									38.9	0.0
ø10:									22.4	0.0
ø12.5:									18.6	0.0
ø16:									286.7	0.0
ø20:									114.5	0.0
Total:									481.1	12.0

V 3
Escala 1:100



V 4
Escala 1:100



Resumo Aço Piso 6 Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A Ø8	101.2	44	502
Ø10	55.4	38	
Ø12.5	17.3	19	
Ø16	165.9	287	
Ø20	42.1	114	
CA-60-B Ø5	118.8	21	21
Total			523

RAMPA DO RESTAURANTE CAMPUS TÓFILO OTONI AVENIDA DR. LUIS BOALI PORTO SALMAN, S/Nº - BAIRRO IPIRANGA - TEÓFILO OTONI/MG			
PROPRIETÁRIO:	UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI	CNPJ	16.888.315/0001-57
OBSERVAÇÕES CONFERIR MEDIDAS NA OBRA			
TÍTULO PROJETO DA RAMPA DO RESTAURANTE			
AUTOR PROJETO: ROBSON NOGUEIRA GOMES - CREA 111839/D			
VERSÃO: VERSÃO 1	DATA: 22.05.2013	AUTOCAD:	FOLHA: 43/66