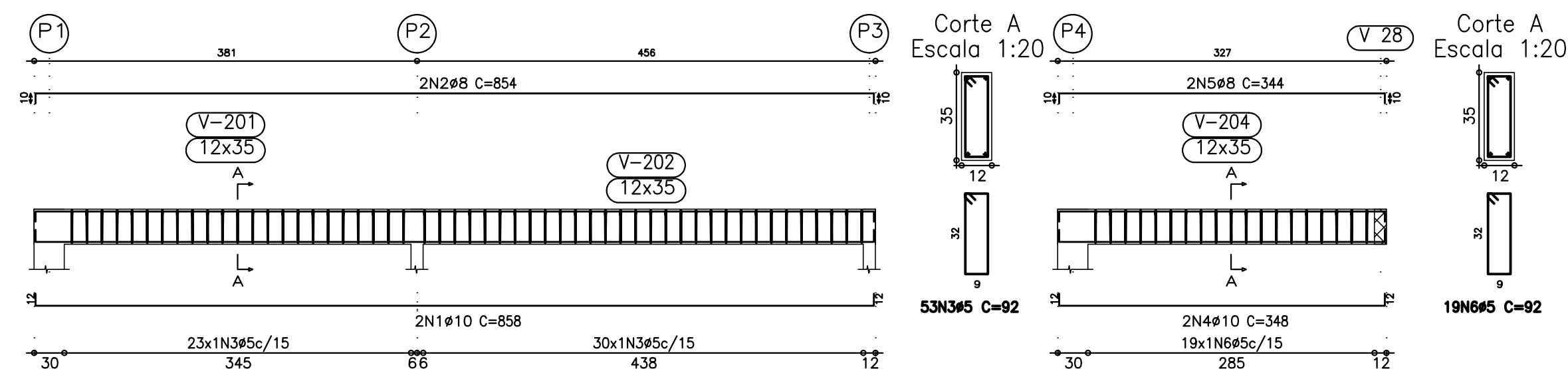
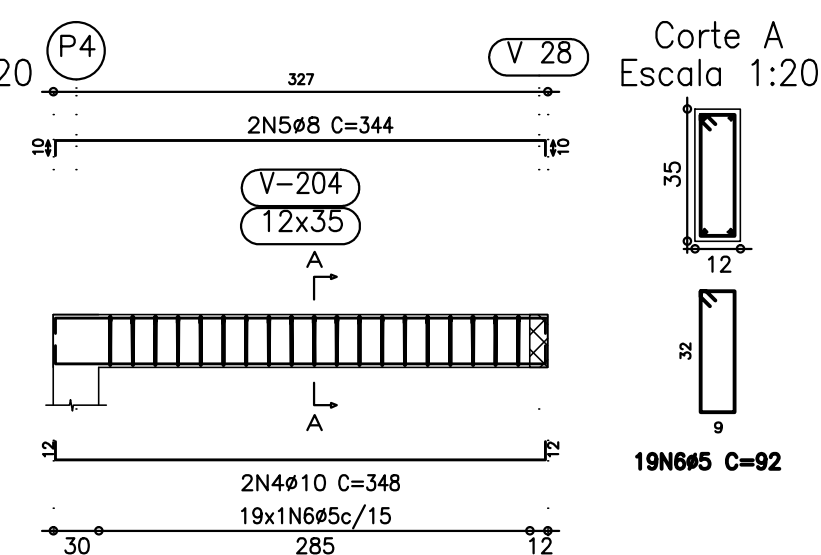


V 1  
Escala 1:50

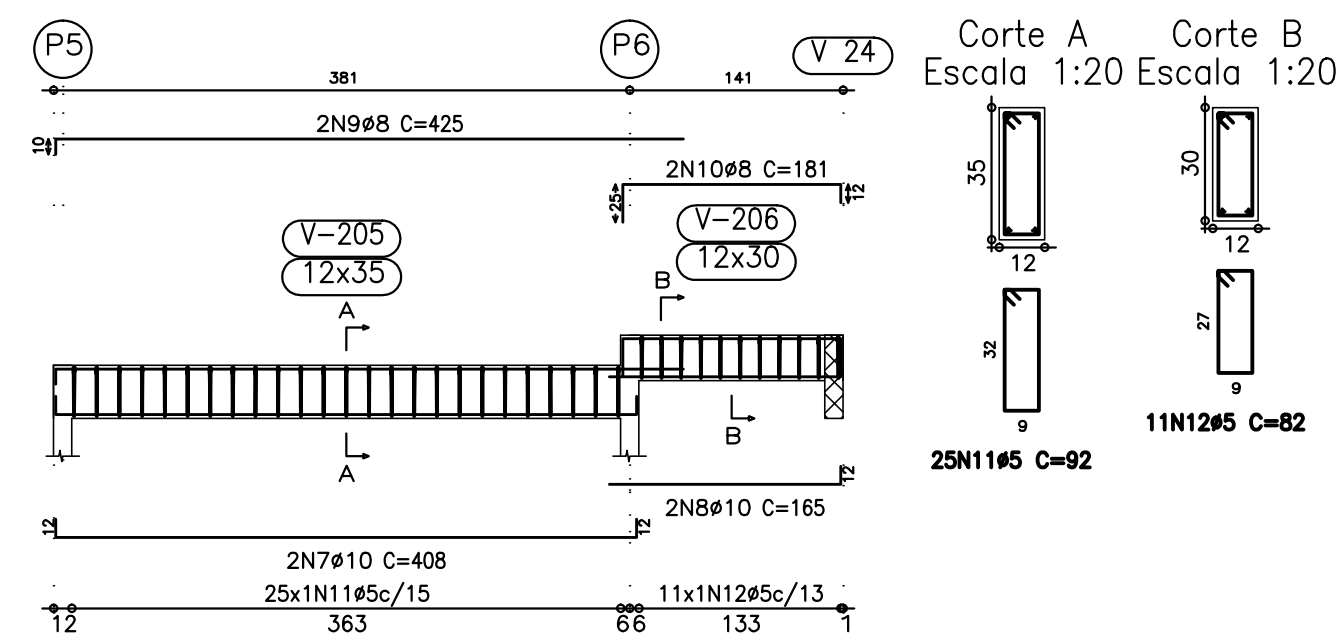


50		345		66	
Piso 2 Desenho de vigas Concreto: C18, em geral Aço: CA-50-A e CA-60-B Escala vigas: 1:50 Escala seções: 1:20					
Resumo	Aço	Comp. total	Peso+10%	Total	
	Piso 2 Vigas	(m)	(kg)		
CA-50-A	Ø 6.3	18.4	5		
	Ø 8	339.6	147		
	Ø 10	623.1	430	582	
CA-60-B	Ø 5	1278.8	221	221	
Total				803	

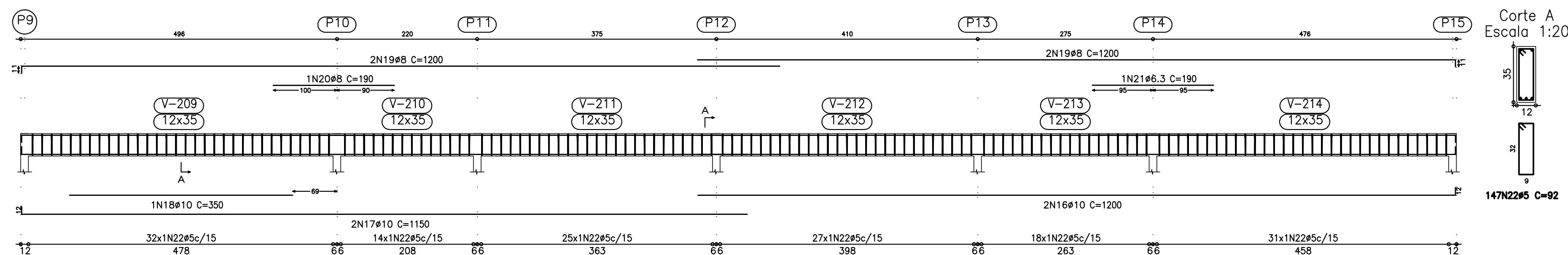
V 3  
Escala 1:50



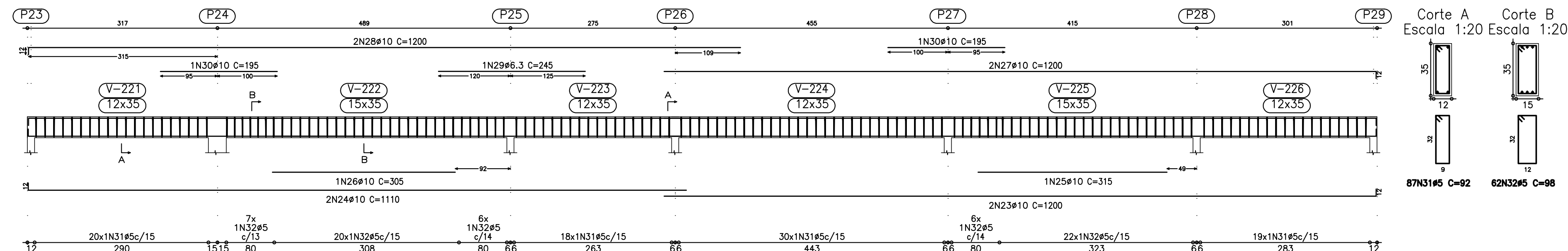
V 4  
Escala 1:50



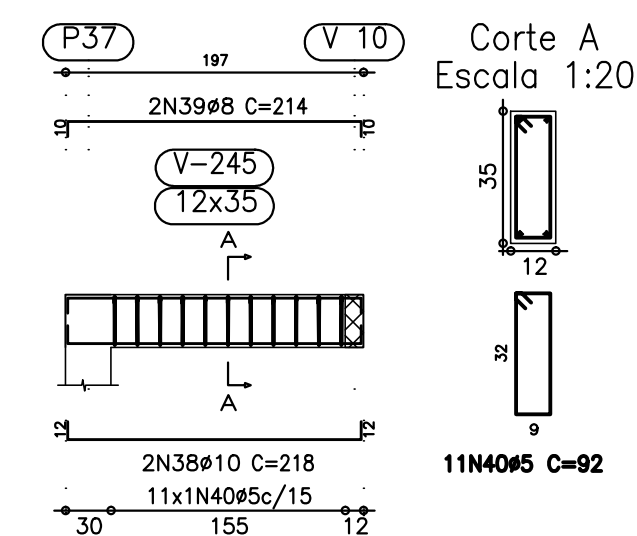
V 7  
Escala 1:50



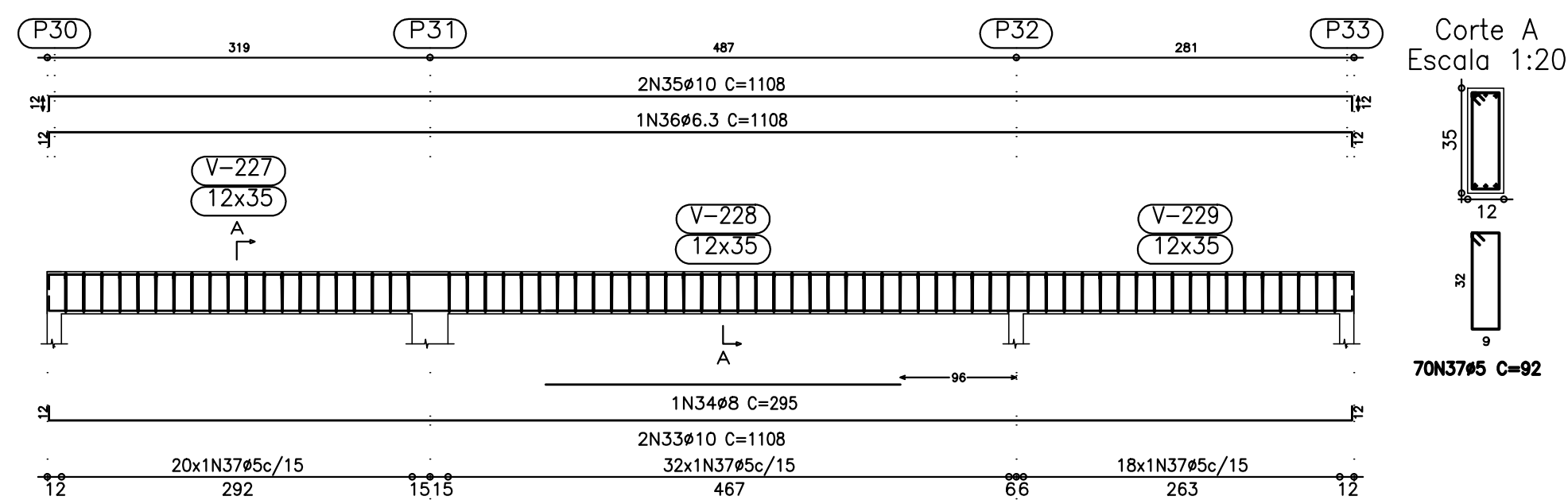
V 9  
Escala 1:50



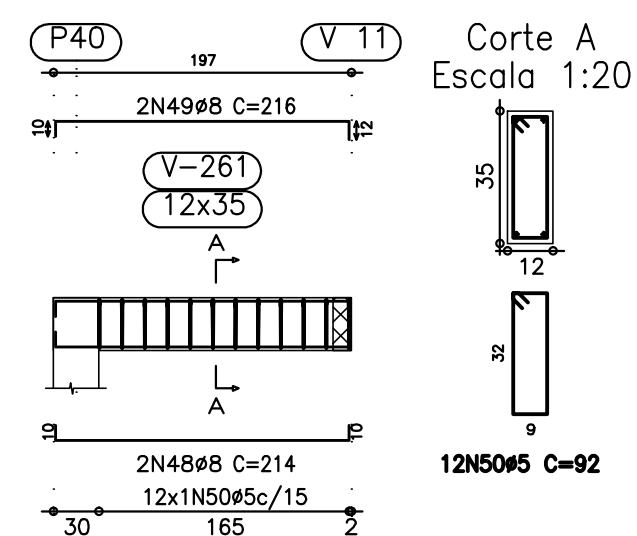
V 21  
Escala 1:50



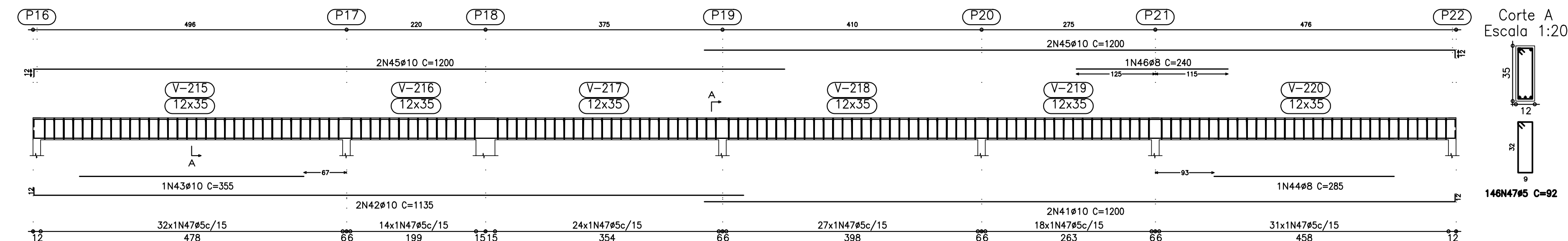
V 10  
Escala 1:50



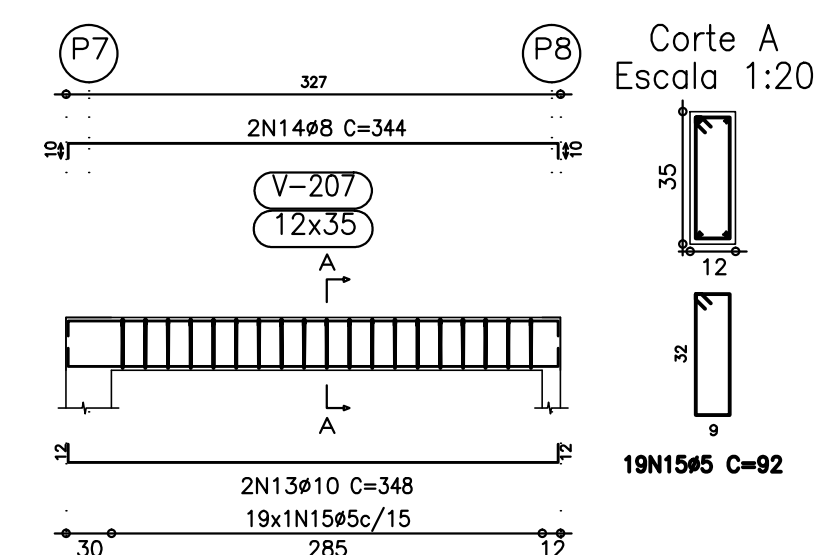
V 29  
Escala 1:50



V 8  
Escala 1:50



V 5  
Escala 1:50



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Retd. (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-E (kg)
V 1	1	ø10	2	12	834	12	858	1716	10.8	
	2	ø8	2	10	834	12	854	1708	6.7	
	3	ø5	53				92	4676	19.3	7.7
	Total+10%								16.3	8.5
V 3	4	ø10	2	12	324	12	348	696	4.4	
	5	ø8	2	10	324	12	344	688	2.7	
	6	ø5	19				92	1748		2.7
	Total+10%								7.8	3.0
V 4	7	ø10	2	12	384	12	408	816	5.1	
	8	ø10	2	12	353	12	365	730	2.1	
	9	ø8	2	10	415	12	425	850	3.3	
	10	ø8	2	25	144	12	181	362	1.4	
	11	ø5	25				92	2300		3.6
	12	ø5	11				82	902		1.4
Total+10%								13.1	5.5	
V 5	13	ø10	2	12	324	12	348	696	4.4	
	14	ø8	2	10	324	12	344	688	2.7	
	15	ø5	19				92	1748		2.7
	Total+10%								7.8	3.0
V 7	16	ø10	2		1188	12	1200	2400	15.1	
	17	ø10	2	12	1138		1150	2300	14.4	
	18	ø10	1		350		315	350	1.9	
	19	ø8	4		1189	11	1200	4800	18.8	
	20	ø8	1		190		190	190	0.7	
	21	ø6.3	1		190		190	190	0.5	
	22	ø5	147				92	13524		21.2
Total+10%								56.9	23.3	
V 9	23	ø10	2		1188	12	1200	2400	15.1	
	24	ø10	2	12	1098		1110	2220	13.9	
	25	ø10	1		315		315	315	1.9	
	26	ø10	1		305		305	305	1.3	
	27	ø10	2		1188	12	1200	2400	15.1	
	28	ø10	2	12	1188		1200	2400	15.1	
	29	ø6.3	1		245		245	245	0.6	
	30	ø10	2		190		190	190	0.4	
	31	ø5	87		92		92	8004		12.6
	32	ø5	61		98		98	5978		9.4
	Total+10%								72.7	24.2
V 10	33	ø10	2	12	1084	12	1108	2216	13.9	
	34	ø8	1		295		295	295	1.2	
	35	ø10	2	12	1084	12	1108	2216	13.9	
	36	ø6.3	1	12	1084		1108	1108	2.7	
	37	ø5	70				92	6440		10.1
Total+10%								34.9	11.1	
V 21	38	ø10	2	12	194	12	218	436	1.7	
	39	ø8	2	10	194	10	214	428	1.7	
	40	ø5	11				92	1012		1.6
Total+10%								4.8	1.8	
V 8	41	ø10	2		1188	12	1200	2400	15.1	
	42	ø10	2	12	1123		1135	2270	14.3	
	43	ø10	1		355		355	355	2.2	
	44	ø8	1		285		285	285	1.1	
	45	ø10	4		1188	12	1200	4800	30.1	
	46	ø8	1		240		240	240	0.9	
	47	ø5	146				92	13432		21.1
Total+10%								70.1	23.2	
V 29	48	ø8	2	10	194	10	214	428	1.7	
	49	ø8	2	10	194	12	216	432	1.7	
	50	ø5	12				92	1104		1.7
Total+10%								3.7	1.9	
	ø5:								0.0	105.5
	ø6.3:								4.2	0.0
	ø8:								49.0	0.0
	ø10:								237.0	0.0
Total:								291.1	105.5	