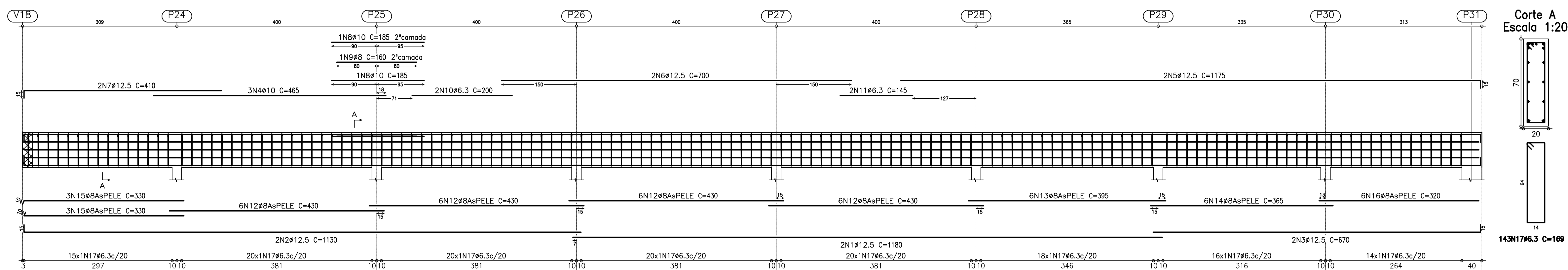


V3

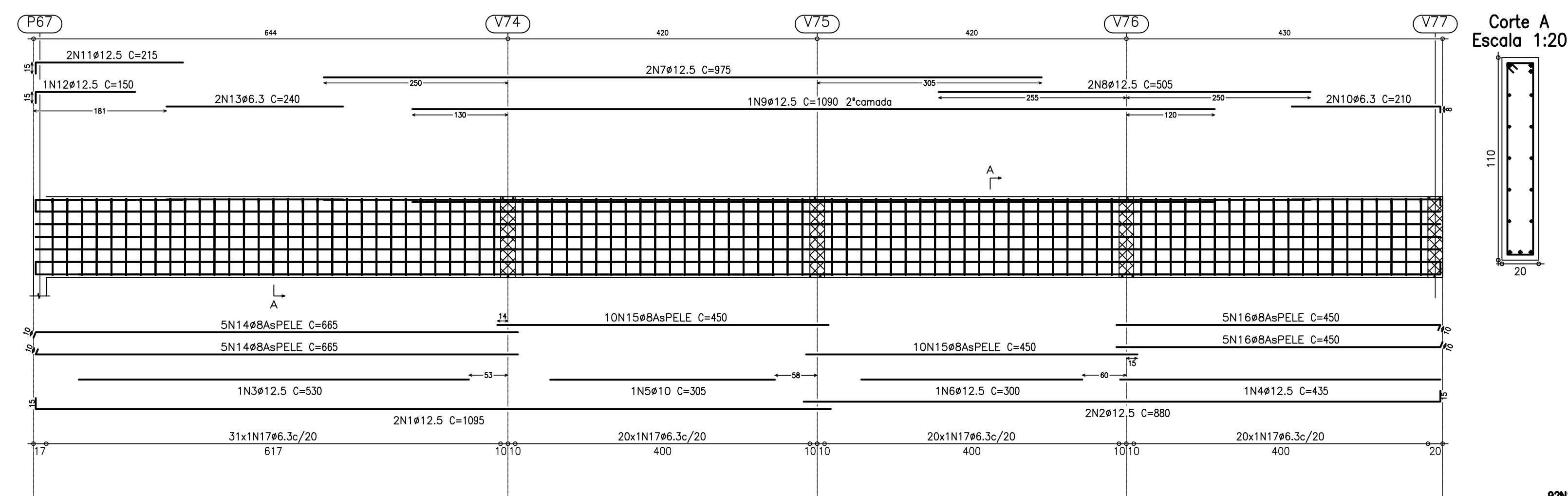
Escala 1:50

Corte A
Escala 1:20

143N1766.3 C=169

V65

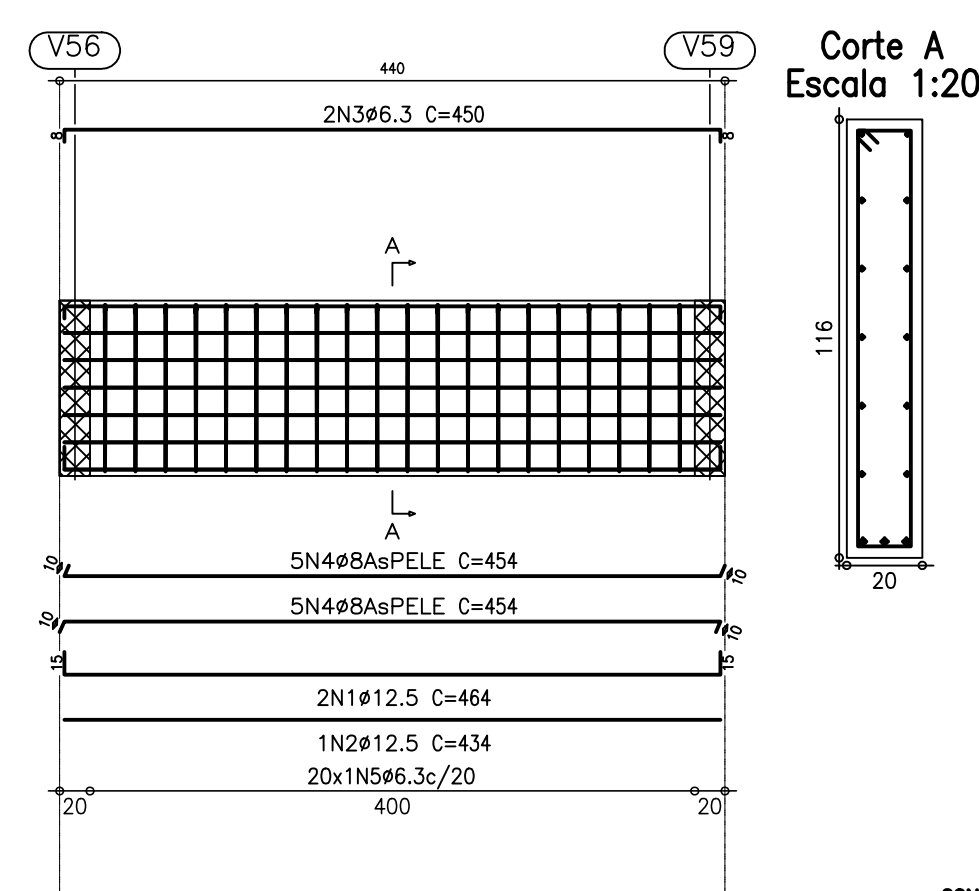
Escala 1:50

Corte A
Escala 1:20

92N1766.3 C=249

V37

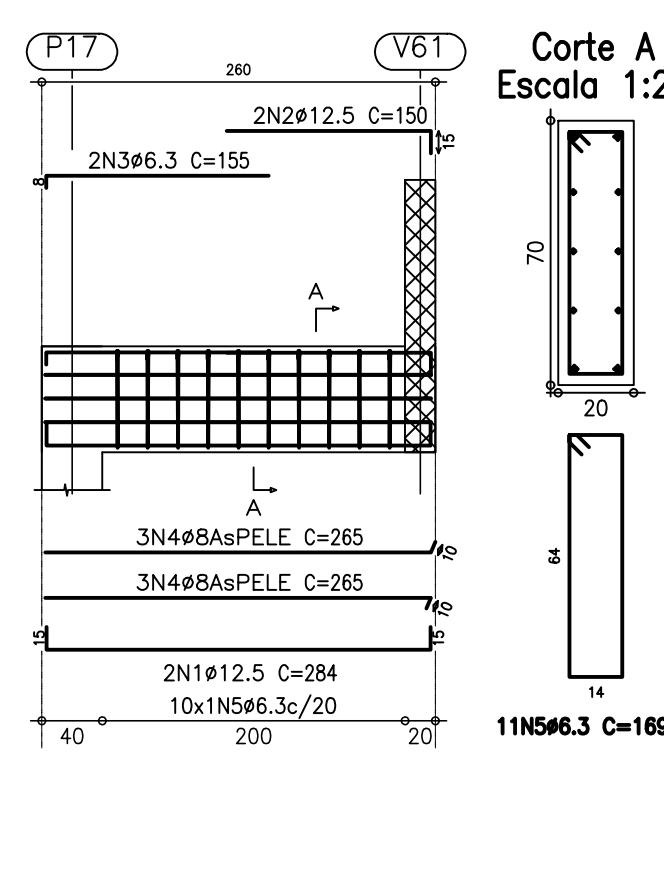
Escala 1:50

Corte A
Escala 1:20

20N566.3 C=261

V62

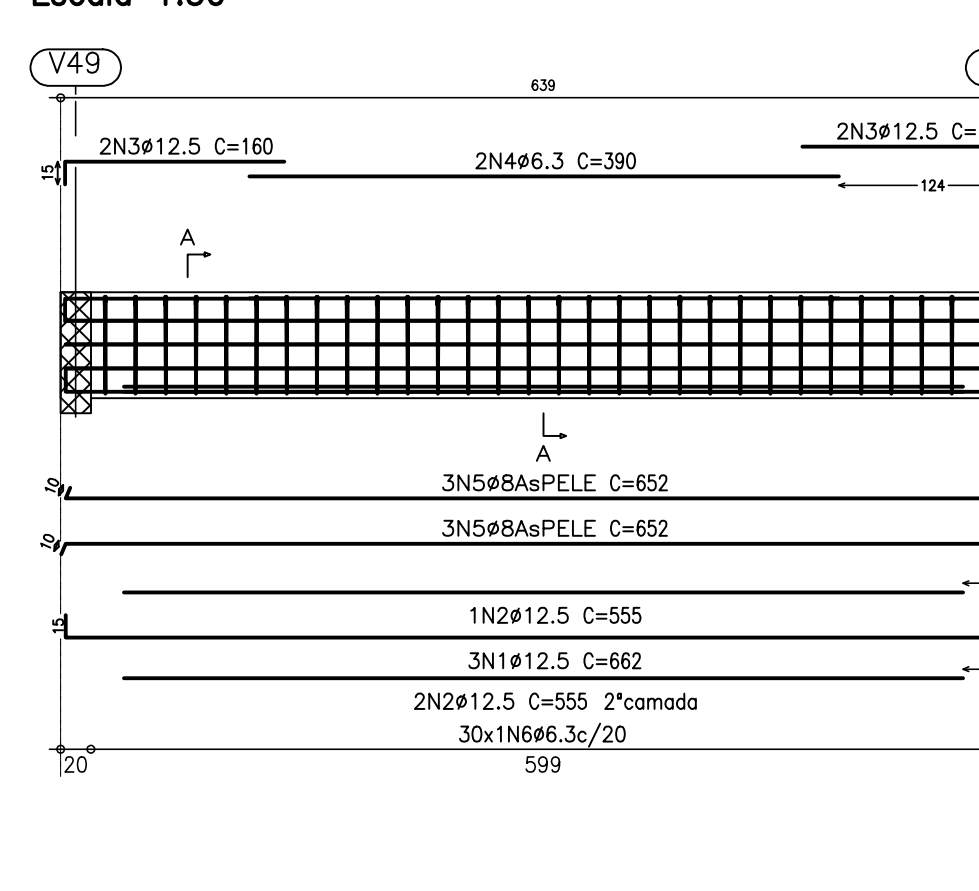
Escala 1:50

Corte A
Escala 1:20

11N566.3 C=169

V32

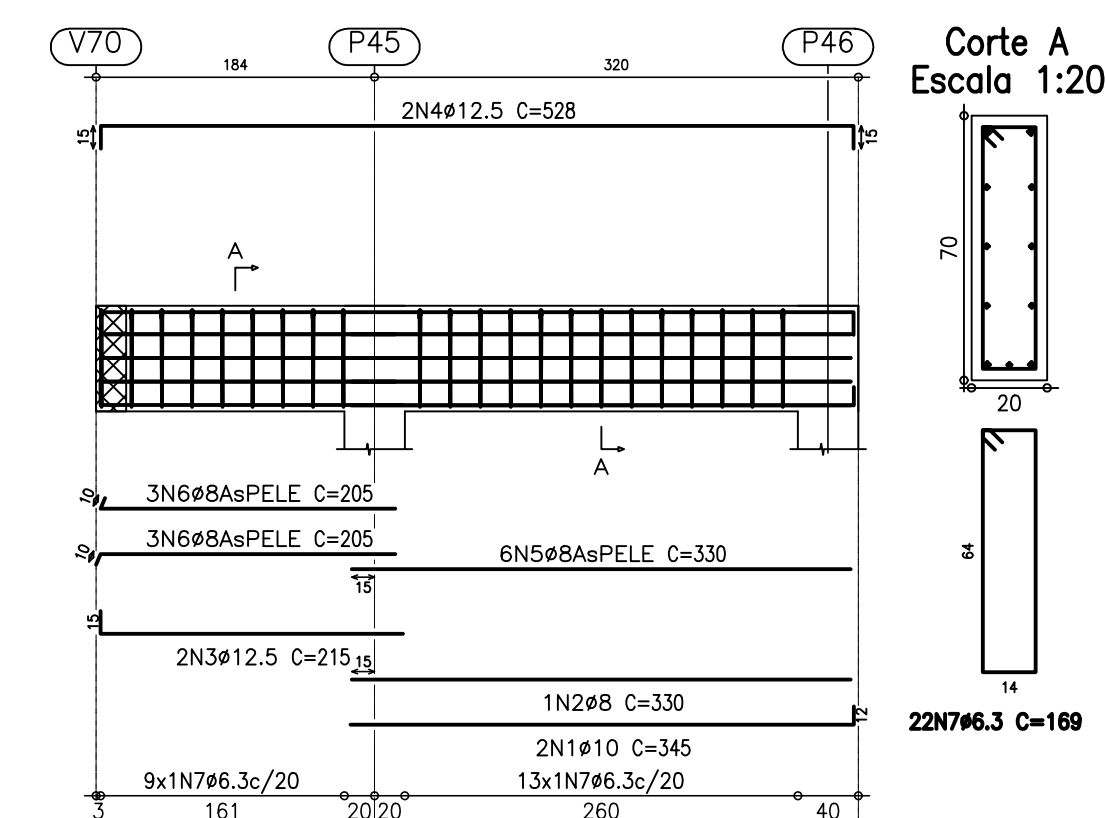
Escala 1:50

Corte A
Escala 1:20

30N666.3 C=169

V66

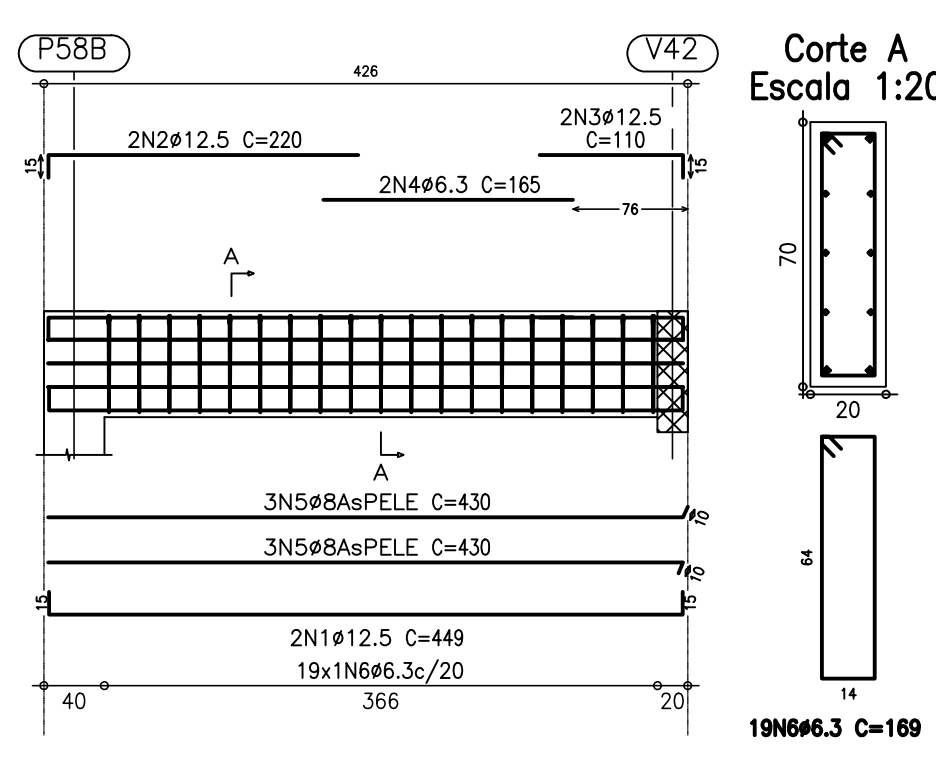
Escala 1:50

Corte A
Escala 1:20

22N766.3 C=169

V35

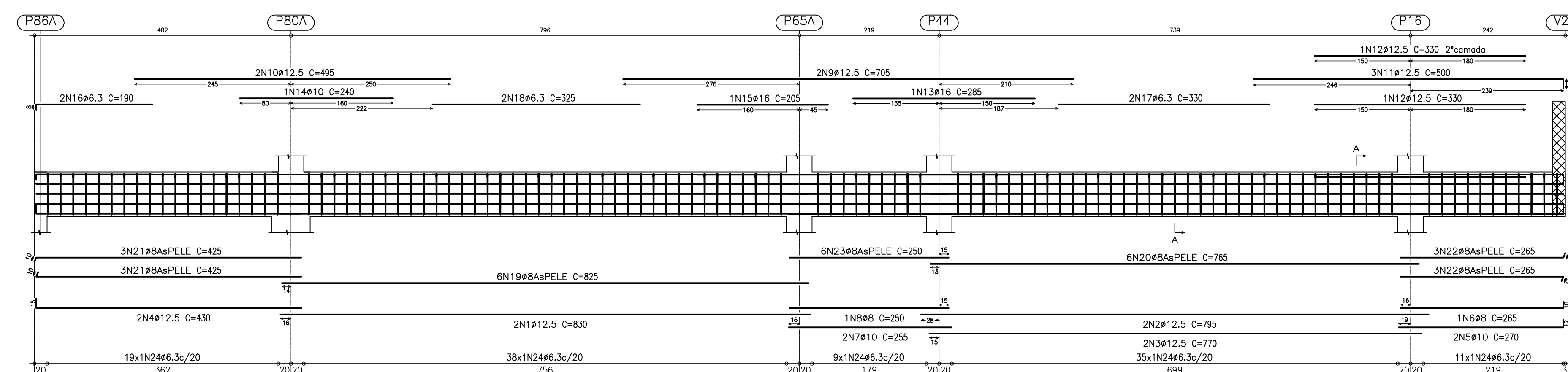
Escala 1:50

Corte A
Escala 1:20

19N666.3 C=169

V60

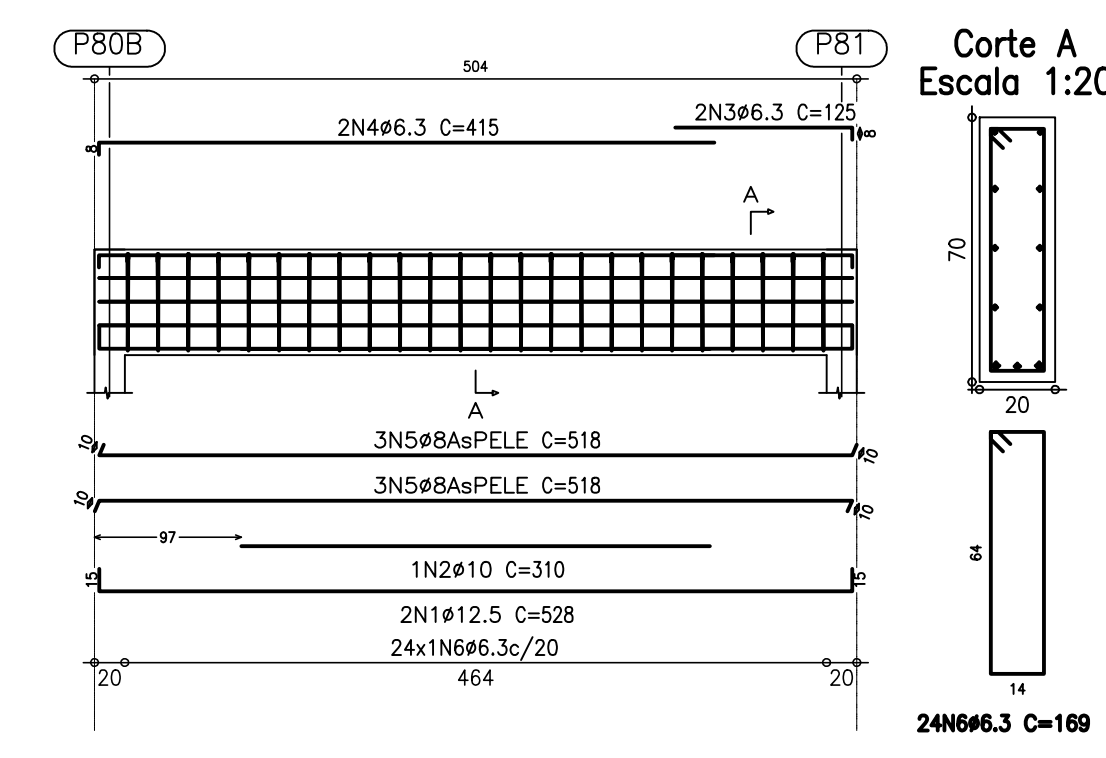
Escala 1:50

Corte A
Escala 1:20

112N2466.3 C=169

V68

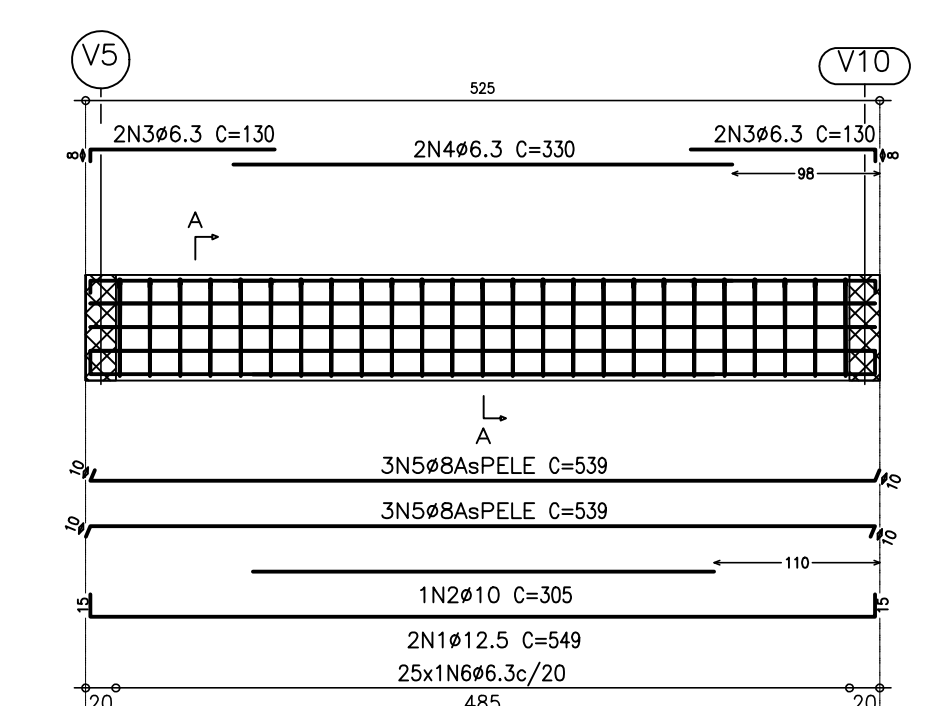
Escala 1:50

Corte A
Escala 1:20

24N666.3 C=169

V18

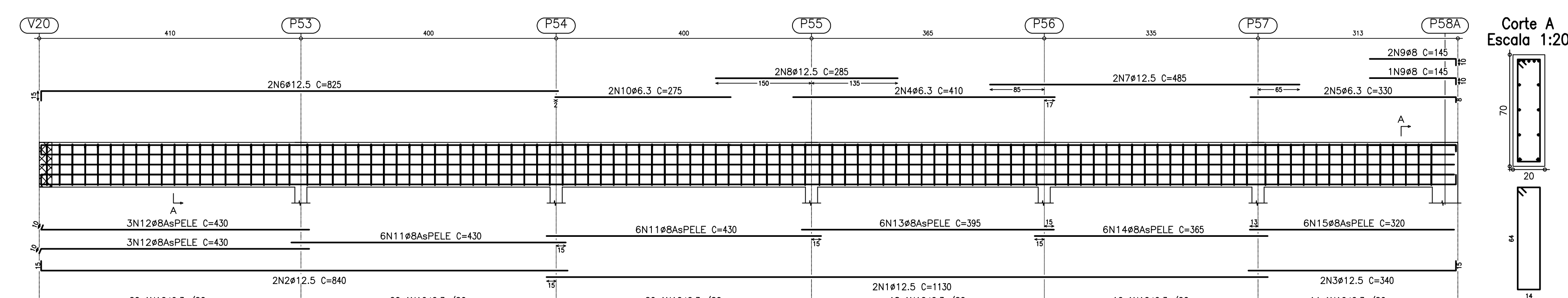
Escala 1:50

Corte A
Escala 1:20

25N666.3 C=169

V4

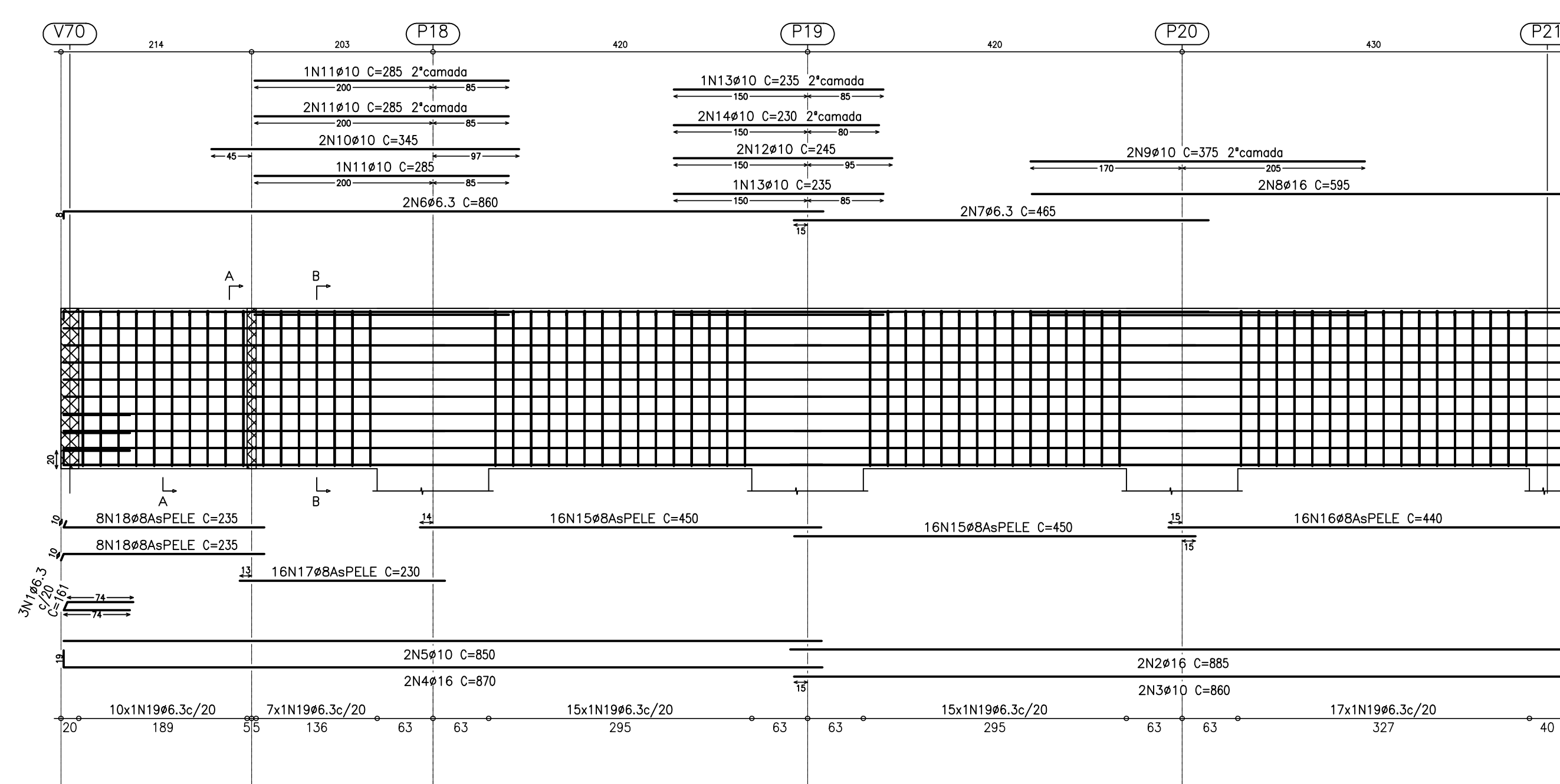
Escala 1:50

Corte A
Escala 1:20

100N1666.3 C=169

V61

Escala 1:50

Corte A
Escala 1:20

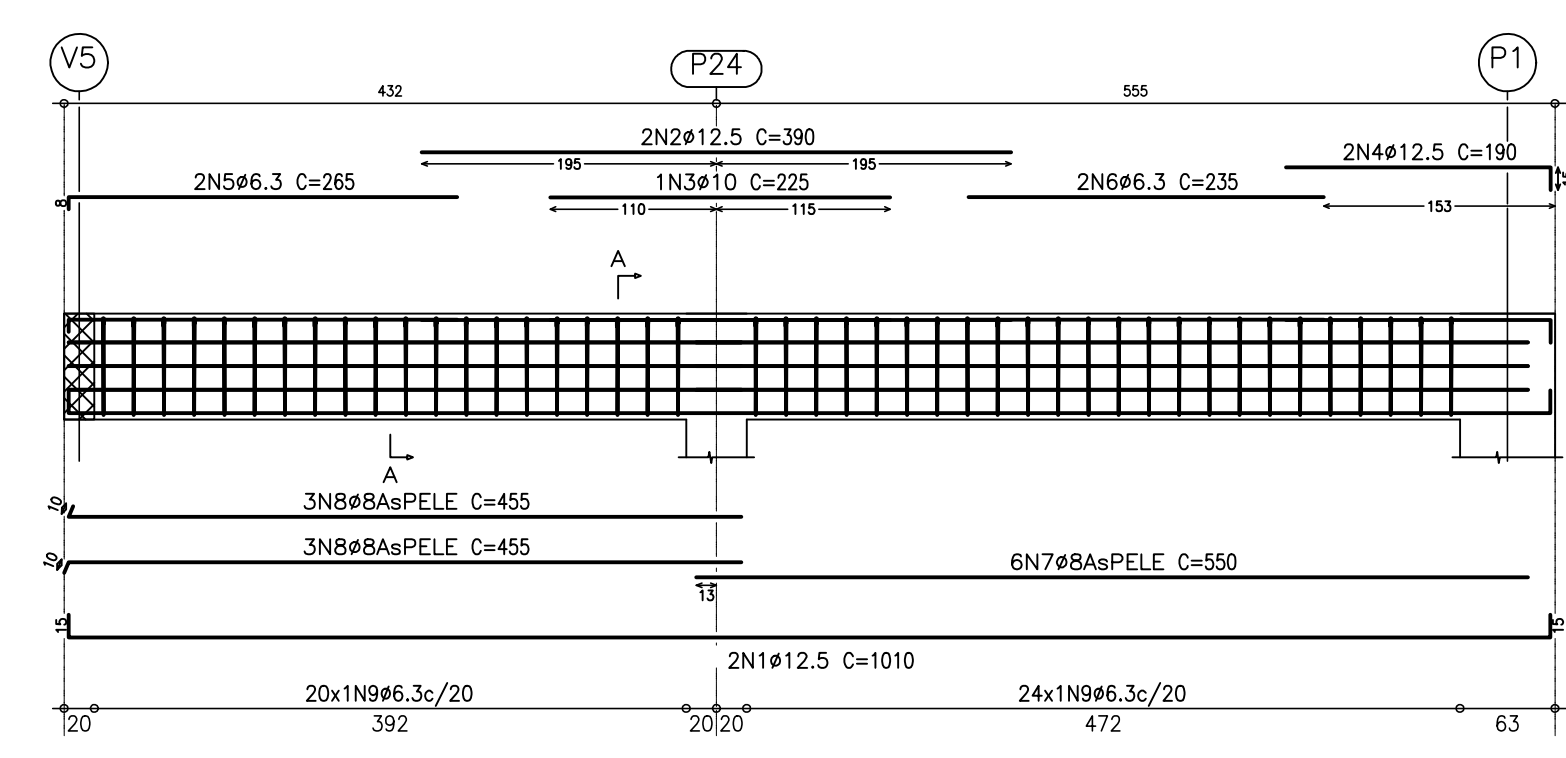
10N1966.3 C=389

Corte B
Escala 1:20

54N1966.3 C=389

V19

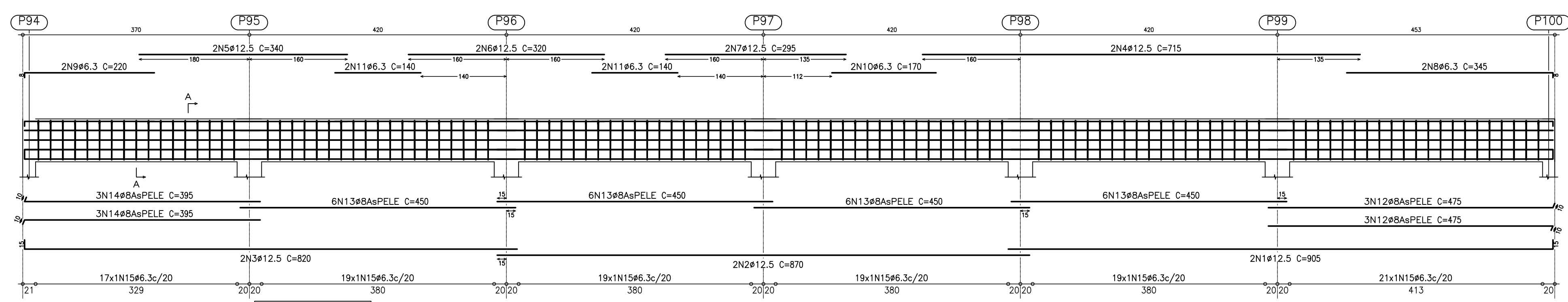
Escala 1:50

Corte A
Escala 1:20

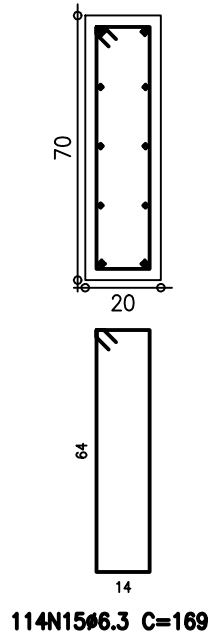
44N666.3 C=169

Elemento	Pos.	Diam.	Q.	DoB.	Ret(DoB)	Comp.(DoB)	Total	CA-50	A-60	B-60	
v3	1	#12.5	2	15	1180	1180	2360	23.2			
	2	#12.5	2	15	1115	1130	2260	17.3			
	3	#12.5	2	15	655	655	1310	13.1			
	4	#10	3	15	465	465	930	3.9			
	5	#12.5	2	15	1160	1175	2350	23.1			
	6	#12.5	2	15	700	700	1400	14.0			
	7	#12.5	2	15	395	410	805	8.0			
	8	#10	2	15	185	185	370	2.3			
	9	#8	2	15	160	160	320	1.6			
	10	#6.3	2	200	200	200	4.0	1.0			
	11	#6.3	2	145	145	145	2.9	0.7			
	12	#8	24	40	40	40	40	103.0	40.5		
	13	#8	6	15	395	395	790	7.8			
	14	#8	6	15	365	365	730	6.8			
	15	#8	6	15	365	365	730	19.6			
	16	#8	6	15	320	320	640	19.6			
	17	#6.3	143	15	320	320	1920	7.5			
						169	246.1	59.8			
							1004.1				
v65	1	#12.5	2	15	1080	15	1095	2190	21.5		
	2	#12.5	2	15	830	850	1680	17.0			
	3	#12.5	2	15	435	435	870	8.7			
	4	#10	3	15	305	305	610	3.0			
	5	#12.5	1	15	300	300	600	2.9			
	6	#12.5	1	15	500	500	1000	10.0			
	7	#12.5	1	15	500	500	1010	9.9			
	8	#12.5	2	202	8	210	420	4.2			
	9	#12.5	2	200	215	415	4.2				
	10	#12.5	1	15	150	150	300	1.5			
	11	#6.3	2	240	240	240	4.8	1.2			
	12	#10	10	650	650	1300	13.0	26.1			
	13	#8	20	450	450	900	30.3	7.7			
	14	#8	10	450	450	900	25.0	6.6			
	15	#8	20	450	450	900	35.3	17.7			
	16	#8	10	450	450	900	25.0	15.1			
	17	#6.3	91	15	440	10	2470	226.0	56.0		
							1004.1		259.4		
v66	1	#10	2	333	330	330	660	4.3			
	2	#8	1	330	330	330	660	1.3			
	3	#12.5	2	200	215	415	4.2				
	4	#12.5	2	15	498	508	1006	10.4			
	5	#8	6	15	330	330	660	7.8			
	6	#8	6	15	190	190	380	4.8			
	7	#6.3	22	15	169	169	338	9.2			
							46.2				
v4	1	#12.5	2	1130	1130	2260	22.2				
	2	#12.5	2	825	840	1665	16.5				
	3	#12.5	2	323	340	663	6.7				
	4	#6.3	2	410	410	820	2.0				
	5	#6.3	2	810	810	1620	16.2				
	6	#12.5	2	810	810	1620	9.5				
	7	#12.5	2	285	285	570	5.6				
	8	#8	3	135	145	280	1.7				
	9	#6.3	2	275	275	550	1.4				
	10	#6.3	2	430	430	860	20.3				
	11	#8	12	430	430	860	10.1				
	12	#8	6	395	395	790	6.3				
	13	#8	6	395	395	790	8.6				
	14	#8	6	325	325	650	7.5				
	15	#8	6	320	320	640	18.2				
	16	#6.3	108	15	169	169	338	45.1			
								202.7			
v35	1	#12.5	2	15	419	419	838	8.8			
	2	#12.5	2	15	205	220	425	4.3			
	3	#12.5	2	15	450	450	900	2.2			
	4	#6.3	2	117	117	234	0.8				
	5	#8	6	420	420	840	10.1				
	6	#6.3	19	15	169	169	338	7.9			
							37.5				
v68	1	#12.5	2	15	488	508	996	10.4			
	2	#10	1	310	310	620	1.9				
	3	#6.3	2	417	415	830	2.1				
	4	#6.3	2	410	415	830	10.0				
	5	#8	6	498	518	1016	12.2				
	6	#6.3	24	15	169	169	338	10.0			
							40.9				
v37	1	#12.5	2	15	434	434	868	9.1			
	2	#12.5	1	434	434	868	2.2				
	3	#6.3	2	434	434	868	1.9				
	4	#8	10	434	434	868	17.8				
	5	#6.3	20	15	261	261	522	12.9			
							50.9				
v18	1	#12.5	2	15	519	519	1038	10.8			
	2	#10	1	305	305	610	1.9				
	3	#6.3	4	122	130	252	1.3				
	4	#6.3	1	330	330	660	1.8				
	5	#8	6	519	519	1038	12.7				
	6	#6.3	25	15	169	169	338	10.4			
							42.6				
v19	1	#12.5	2	15	980	15	1010	2020	19.8		
	2	#12.5	2	390	390	780	7.7				
	3	#10	1	225	225	450	1.3				
	4	#12.5	2	175	190	380	3.7				
	5	#6.3	2	257	265	522	1.3				
	6	#6.3	2	235	235	470	1.2				
	7	#8	6	550	550	1100	13.0				
	8	#8	6	445	455	910	10.7				
	9	#6.3	44	15	169	169	338	18.4			
	10	#6.3	44	15	169	169	338	18.4			
							84.9				
v61	1	#6.3	3	74	13	74	161	483	1.2		
	2	#16	2	15	866	866	1732	27.8			
	3	#10	2	866	866	1732	10.8				
	4	#16	2	866	866	1732	27.3				
	5	#10	2	866	866	1732	10.7				
	6	#6.3	2	866	866	1732	4.3				
	7	#6.3	2	866	866	1732	4.3				
	8	#16	2	595	595	1190	18.7				
	9	#10	2	375	375	750	4.7				
	10	#10	2	345	345	690	4.3				
	11	#10	2	285	285	570	7.2				
	12	#10	2	245	245	490	3.1				
	13	#10	2	235	235	470	3.0				
	14	#10	2	230	230	460	2.9				
	15	#8	32	450	450	900	56.5				
	16	#8	16	450	450	900	27.6				
	17	#8	16	230	230	460	14.4				
18	#8	16	230	230	460	14.8					
19	#6.3	64	15	225	225	450	61.6				
							3				
v32	1	#12.5	3	15	633	655	1288	12.8			
	2	#12.5	3	15	555	555	1110	11.1			
	3	#12.5	3	15	145	145	290	2.9			
	4	#6.3	2	390	390	780	7.8				
	5	#8	6	10	632	632	1264	15.4			
	6	#6.3	30	15	169	169	338	20.7			
							1004.1		79.1		
v62	1	#12.5	2	15	254	254	508	5.6			
	2	#12.5	2	15	155	155	310	3.1			
	3	#6.3	2	147	155	310	3.1				
	4	#8	6	255	255	510	10.2				
	5	#6.3	10	15	169	169	338	6.2			
	6	#6.3	10	15	169	169	338	6.2			
							1004.1		79.1		
v60	1	#12.5	2	830	830	1660	16.6				
	2	#12.5	2	795	795	1590	15.9				
	3	#12.5	2	770	770	1540	15.4				
	4	#12.5	2	415	430	860	8.6				
	5	#10	2	240	240	480	4.8				
	6	#8	1	255	255	510	5.1				
	7	#10	2	255	255	510	5.1				
	8	#12.5	2	250	250	500	5.0				
	9	#12.5	2	705	705	1410	13.8				
	10	#12.5	2	495	495	990	9.9				
	11	#12.5	3	485	485	970	10.0				
	12	#12.5	2	245	245	490	4.9				
	13	#16	1	285	285	570	5.7				
	14	#10	1	245	245	490	4.9				
	15	#16	1	205	205	410	4.1				
	16	#6.3	2	182	182	364	3.6				
	17	#6.3	2	330	330	660	6.6				
18	#6.3	2	325	325	650	6.5					
19	#8	6	825	825	1650	16.5					
20	#8	6	765	765	1530	15.3					
21	#8	6	425	425	850	8.5					
22	#8	6	255	255	510	5.1					
23	#8	6	255	255	510	5.1					
24	#6.3	112	250	169	169	338	62.8				
							1004.1		251.1		
							#6.3:	628.4	0.0		
							#8:	547.3	0.0		
							#12.5:	626.1	0.0		
							#12.5:	575.3	0.0		
							#16:	88.6	0.0		
							#16:	88.6	0.0		

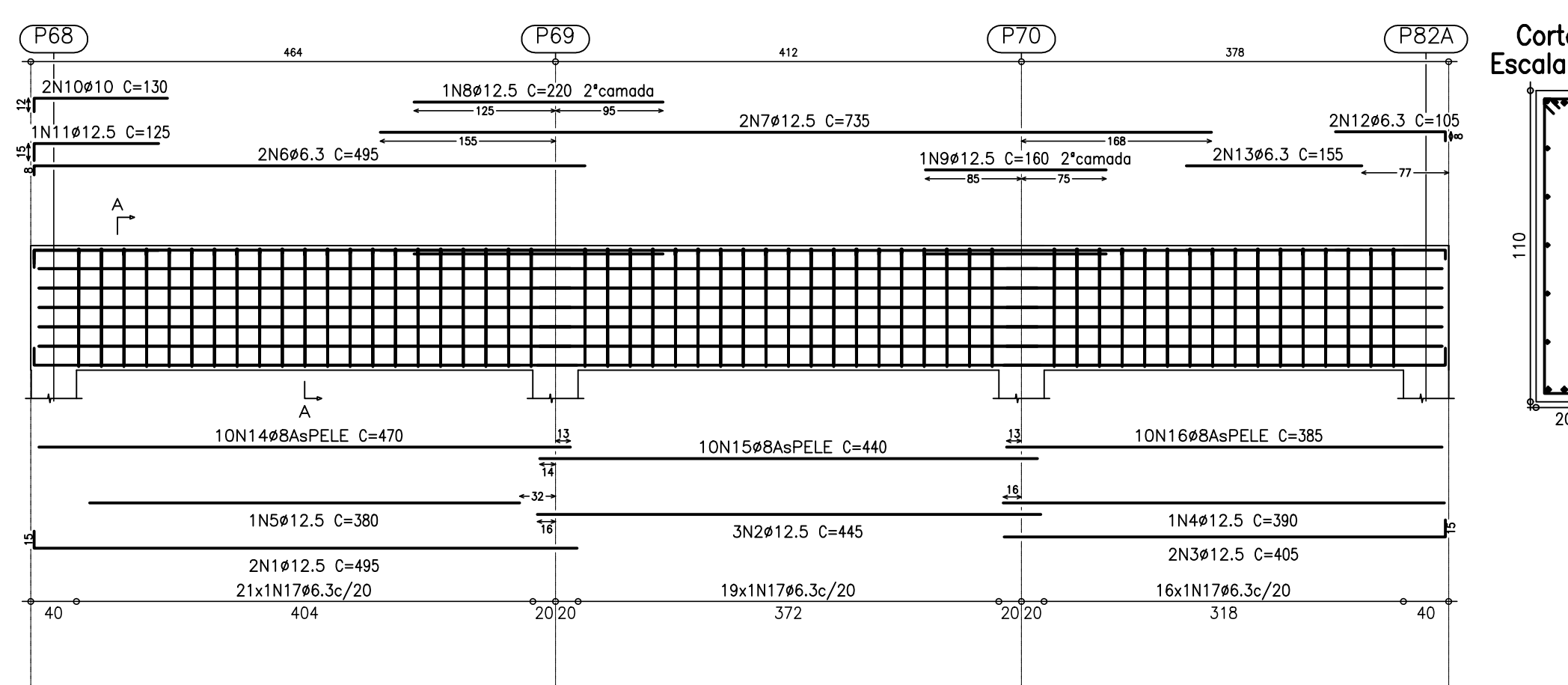
V6
Escala 1:50



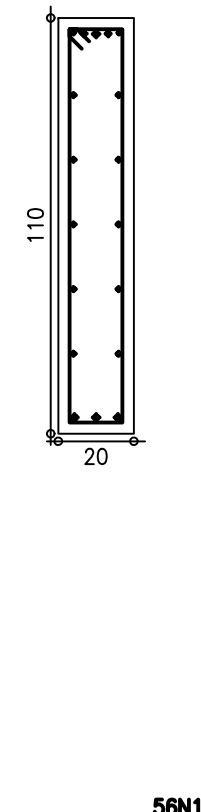
Corte A
Escala 1:20



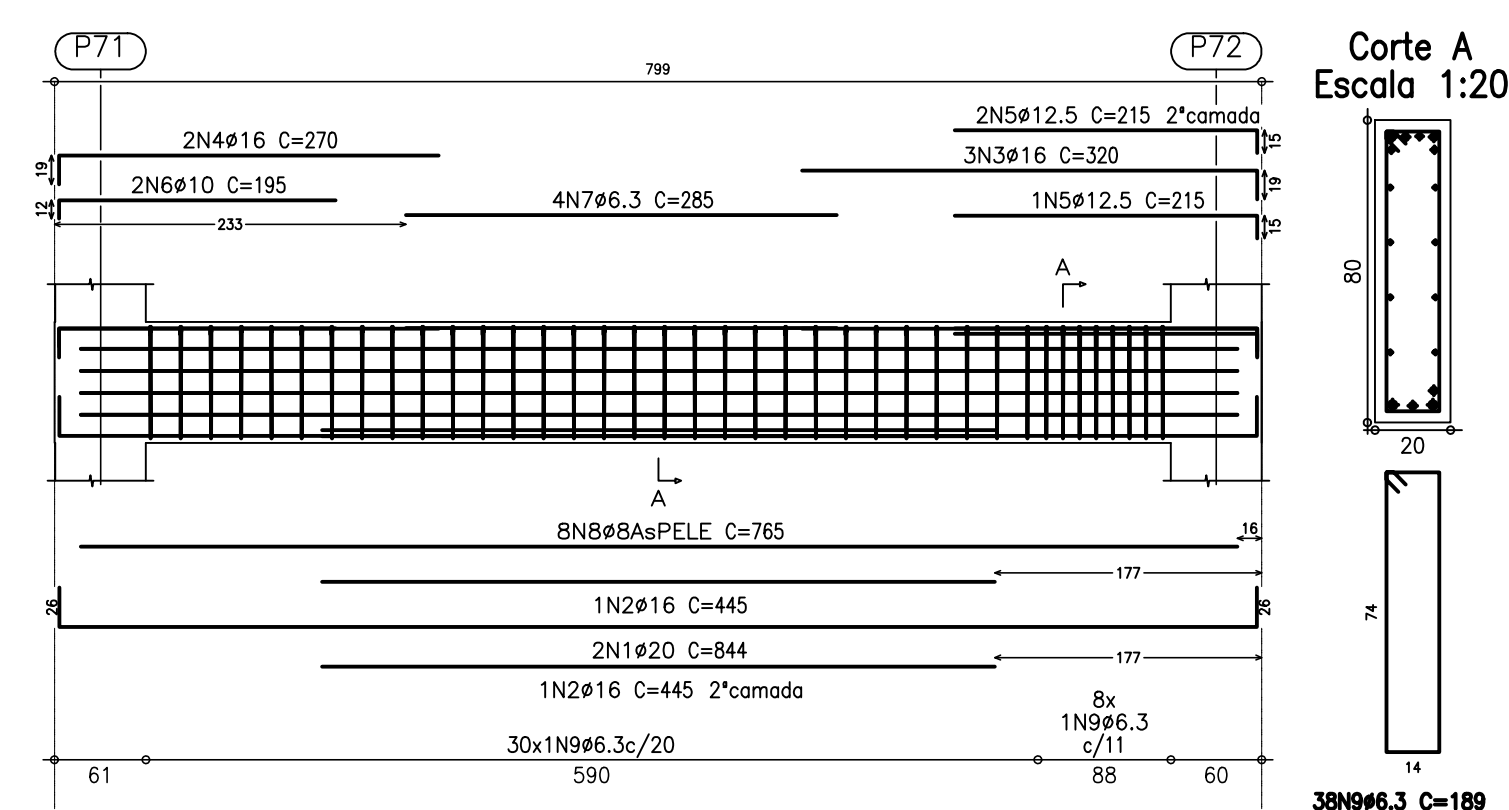
V17A
Escala 1:50



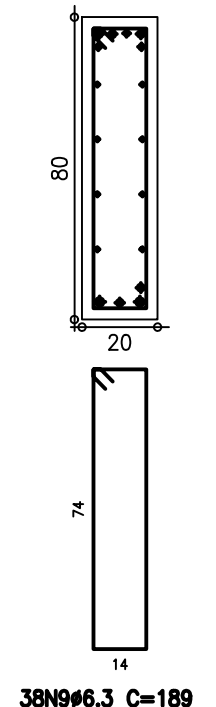
Corte A
Escala 1:20



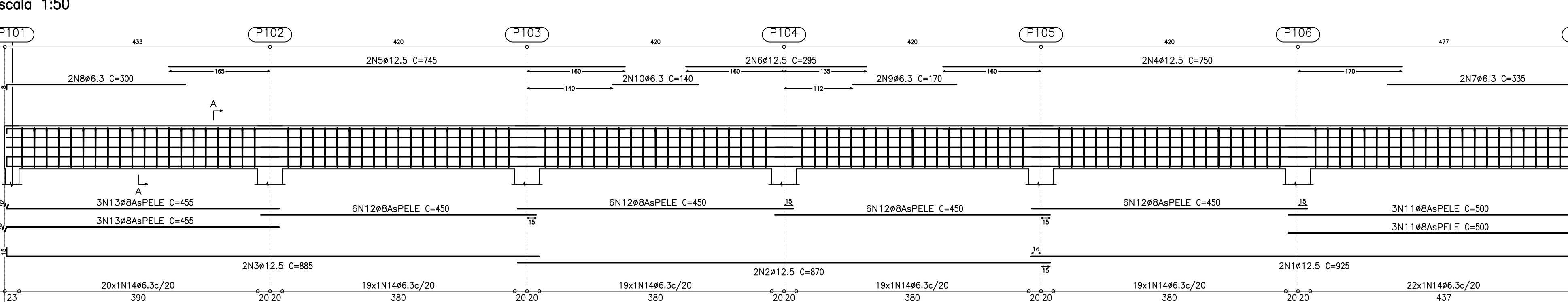
V38
Escala 1:50



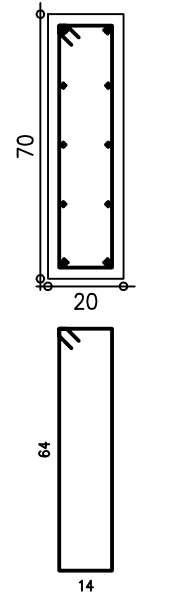
Corte A
Escala 1:20



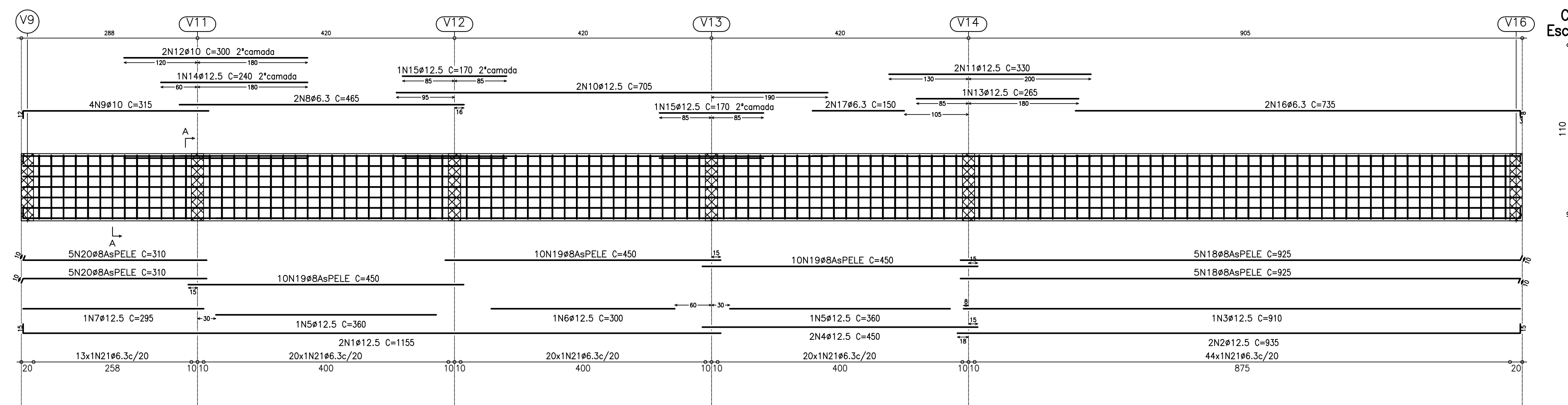
V7
Escala 1:50



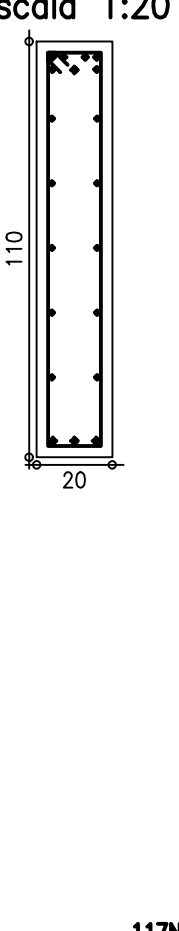
Corte A
Escala 1:20



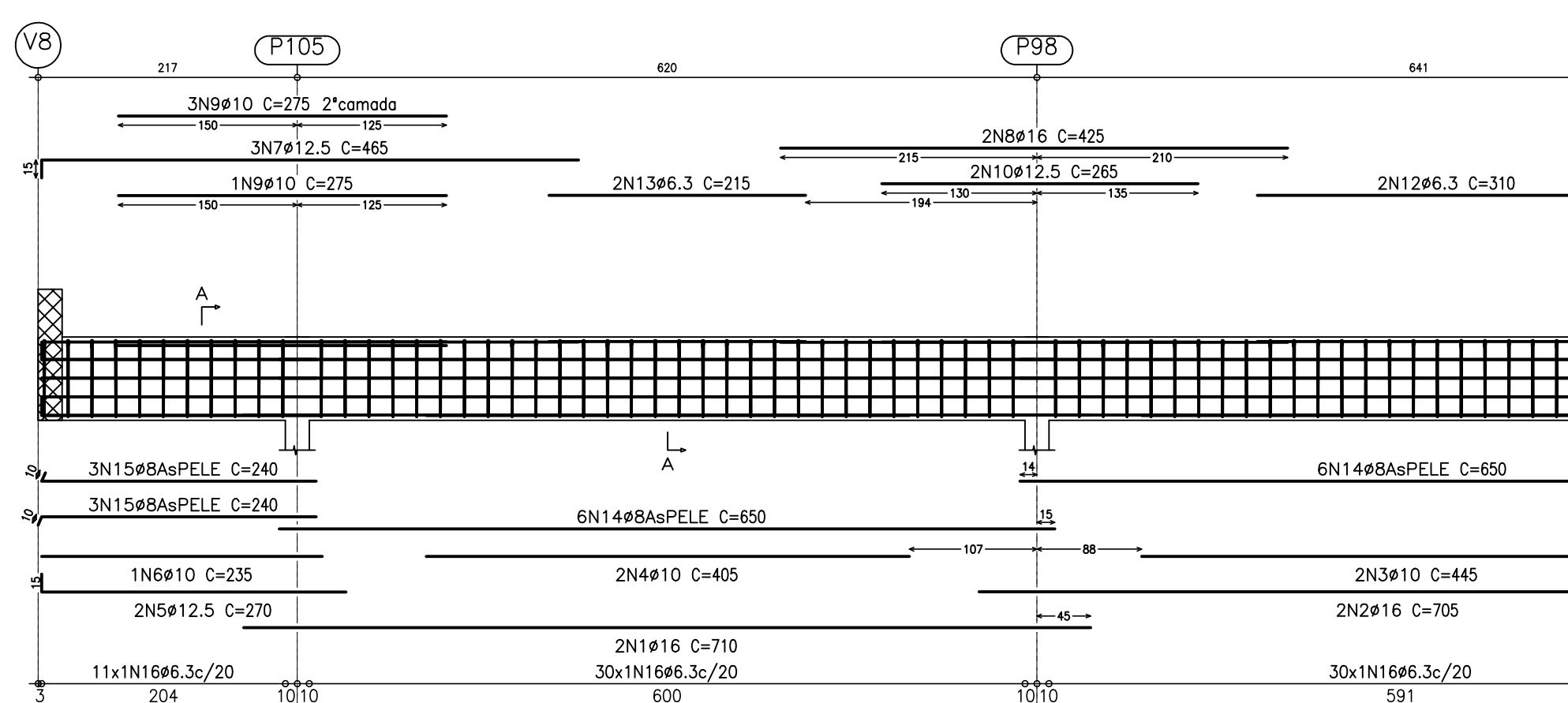
V8
Escala 1:50



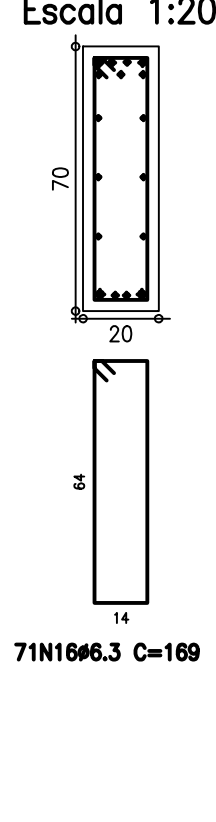
Corte A
Escala 1:20



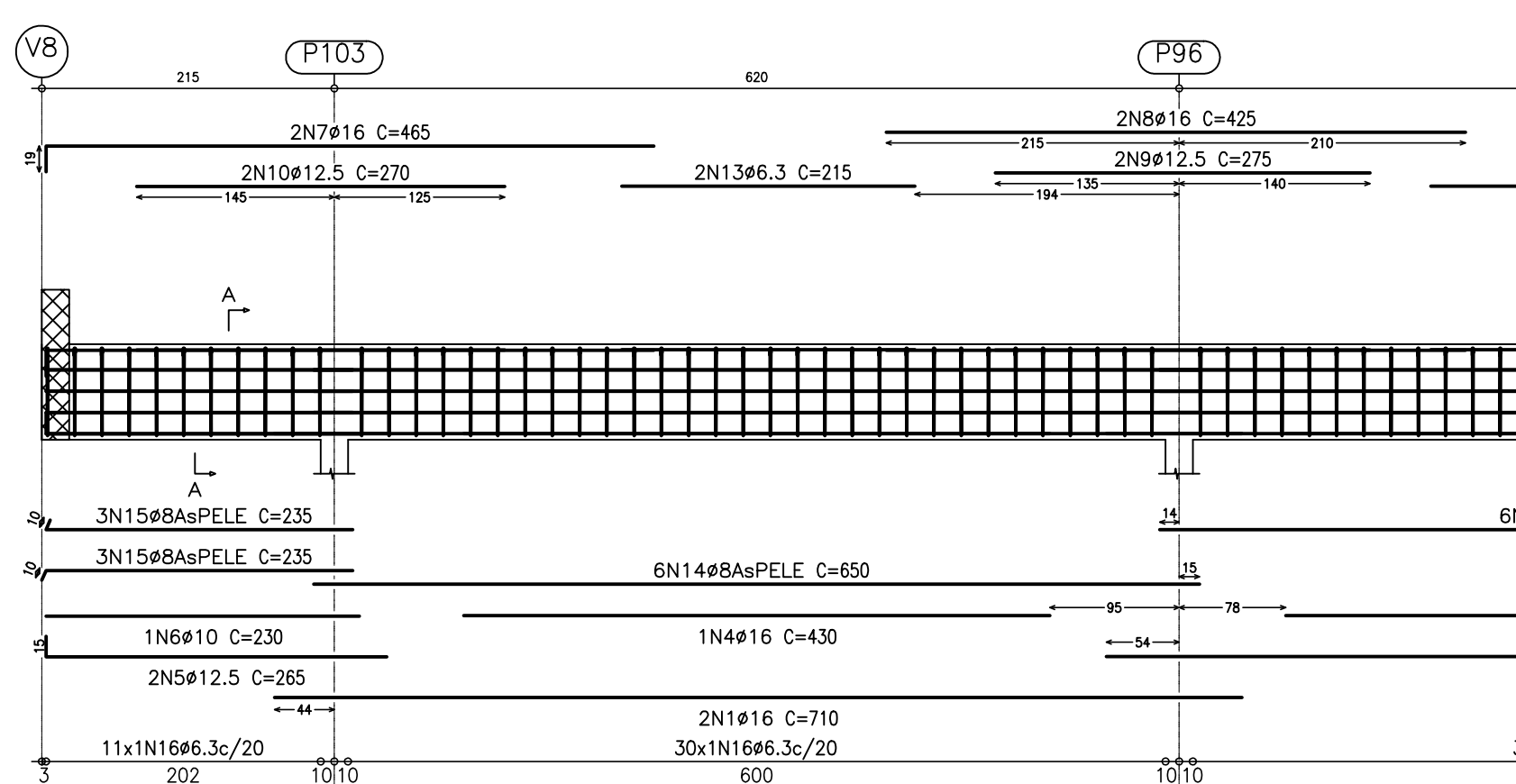
V14
Escala 1:50



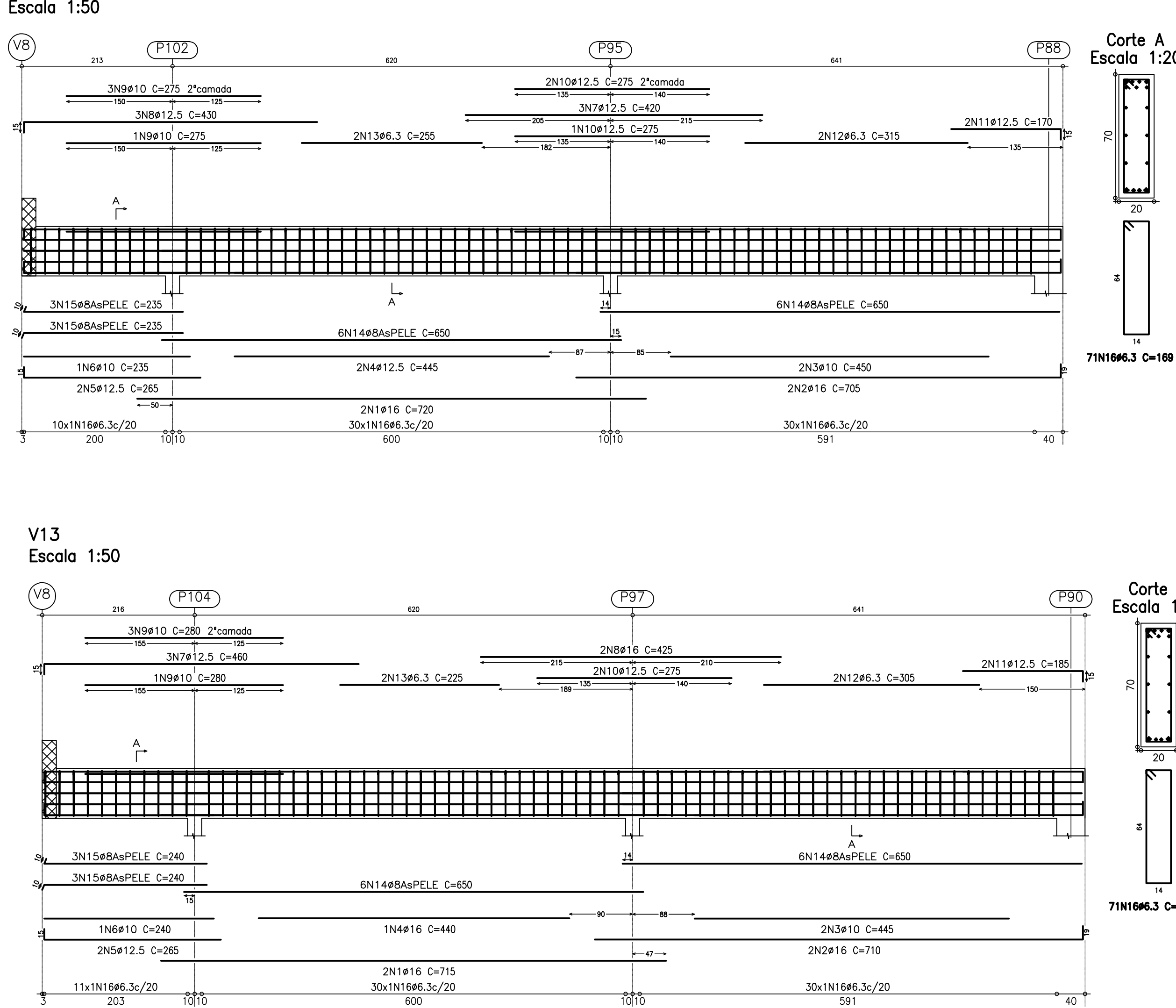
Corte A
Escala 1:20



V12
Escala 1:50



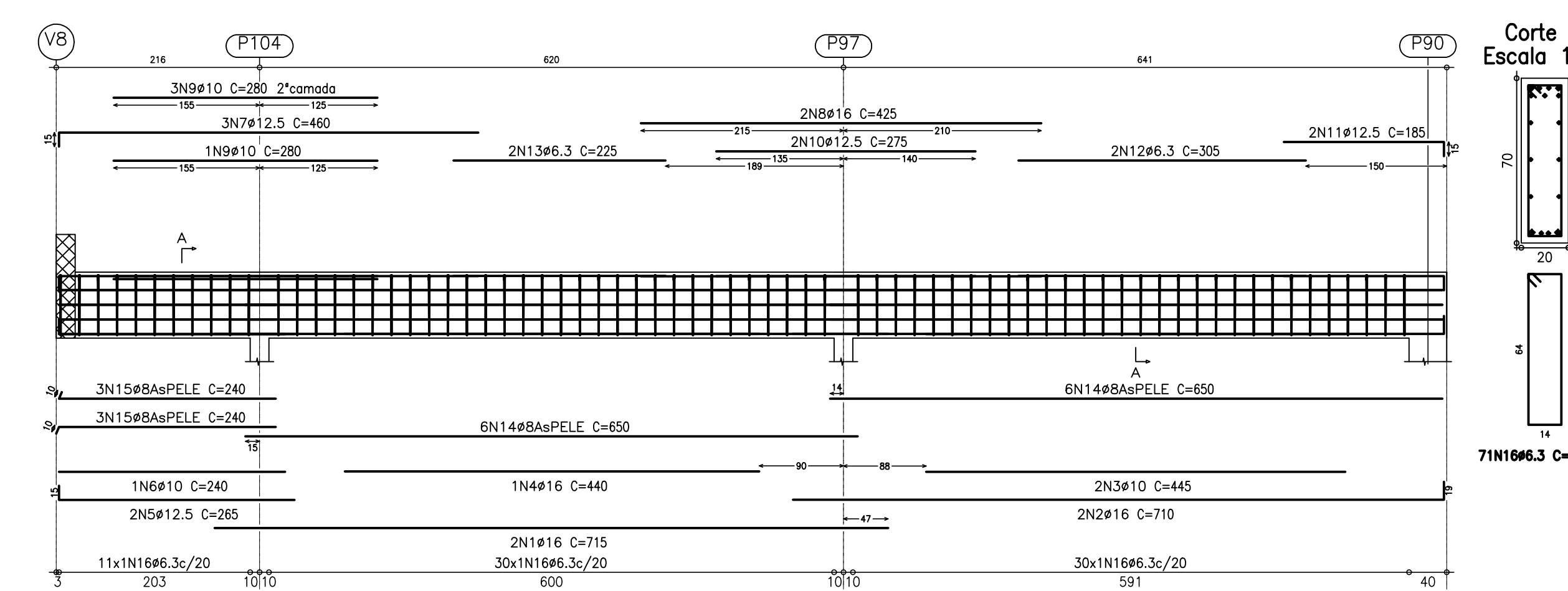
V11
Escala 1:50



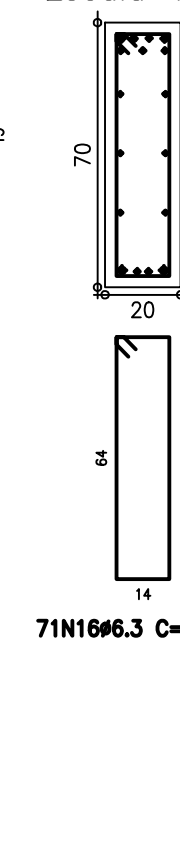
Corte A
Escala 1:20



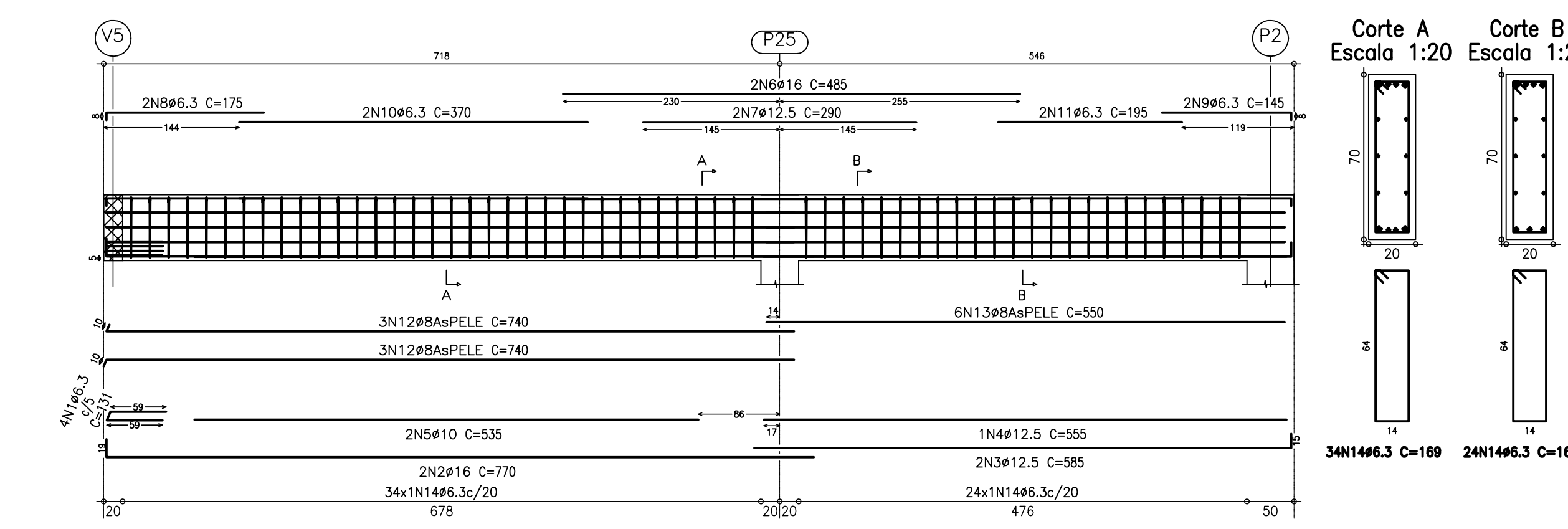
V13
Escala 1:50



Corte A
Escala 1:20

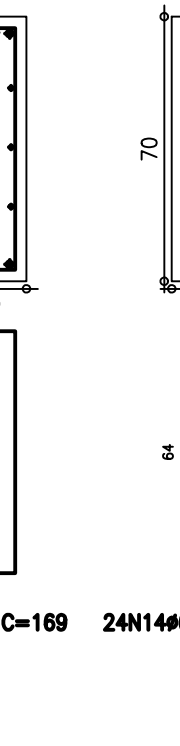
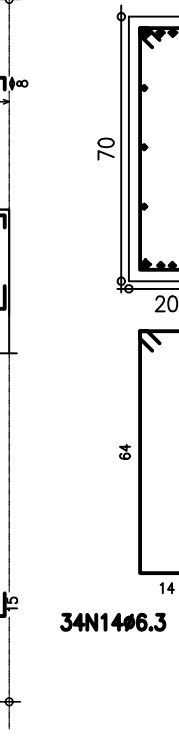


V20
Escala 1:50

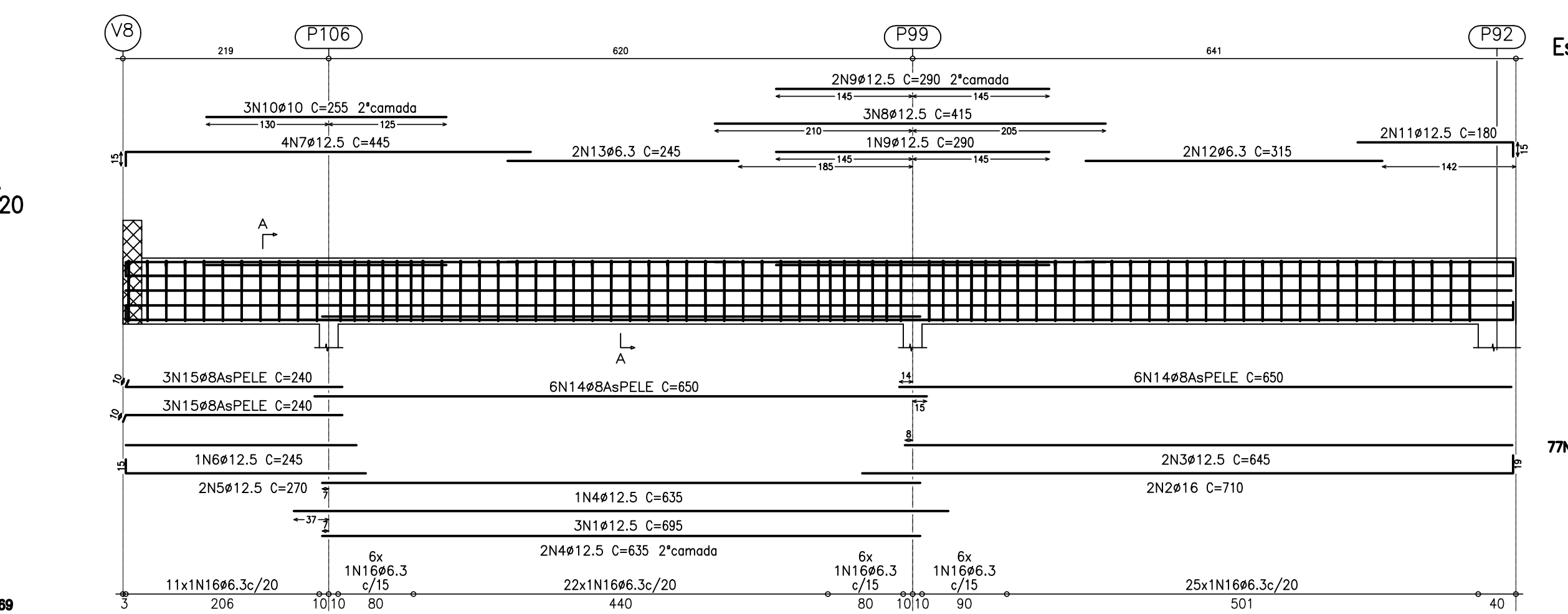


Corte A
Escala 1:20

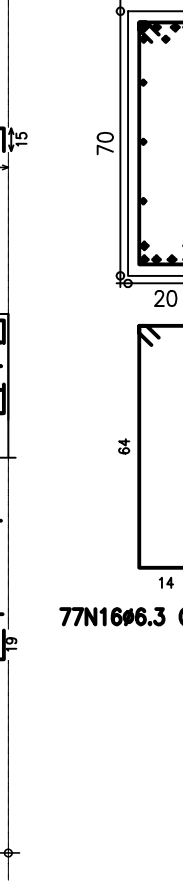
Corte B
Escala 1:20



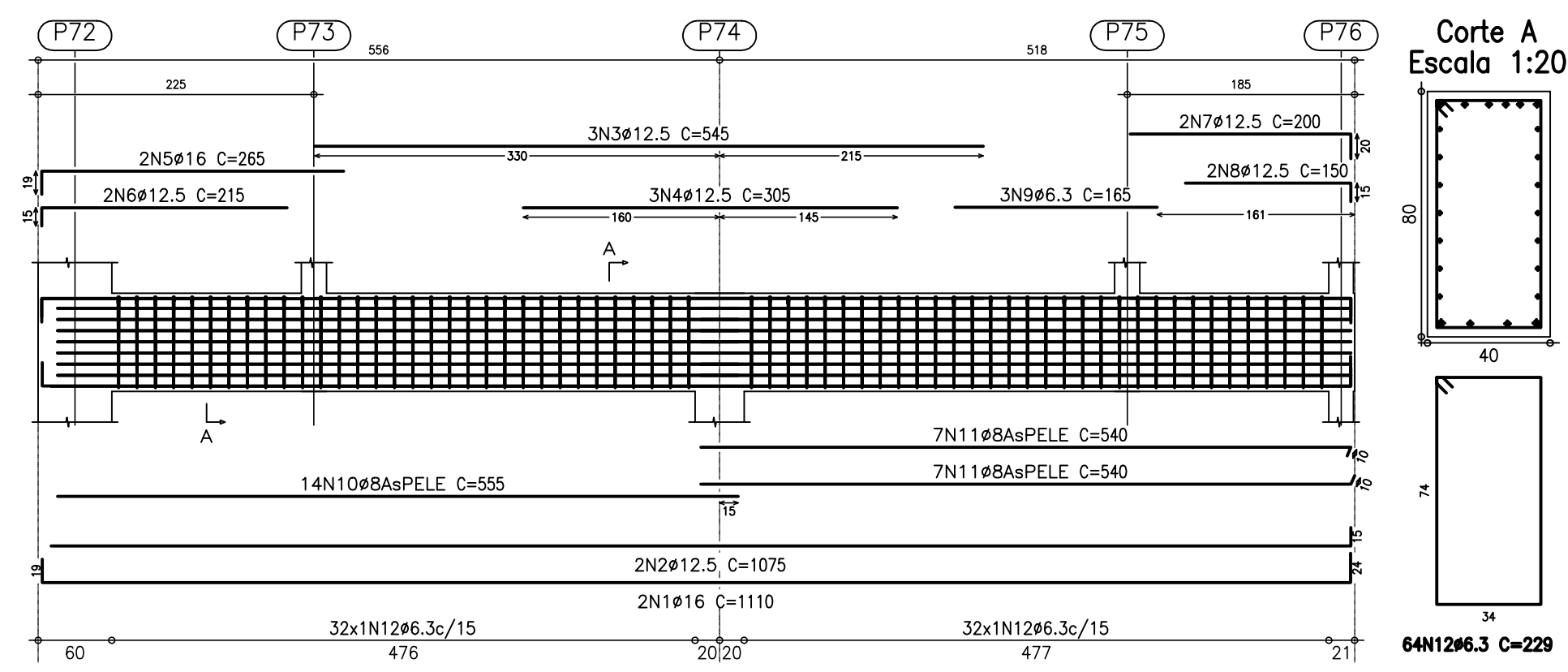
V15
Escala 1:50



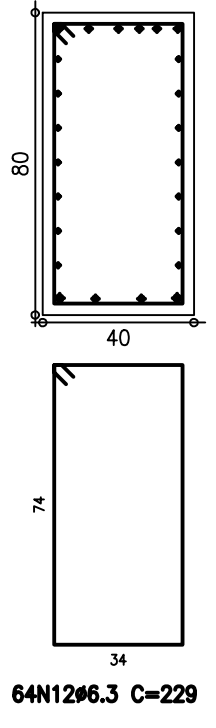
Corte A
Escala 1:20



V39
Escala 1:50



Corte A
Escala 1:20

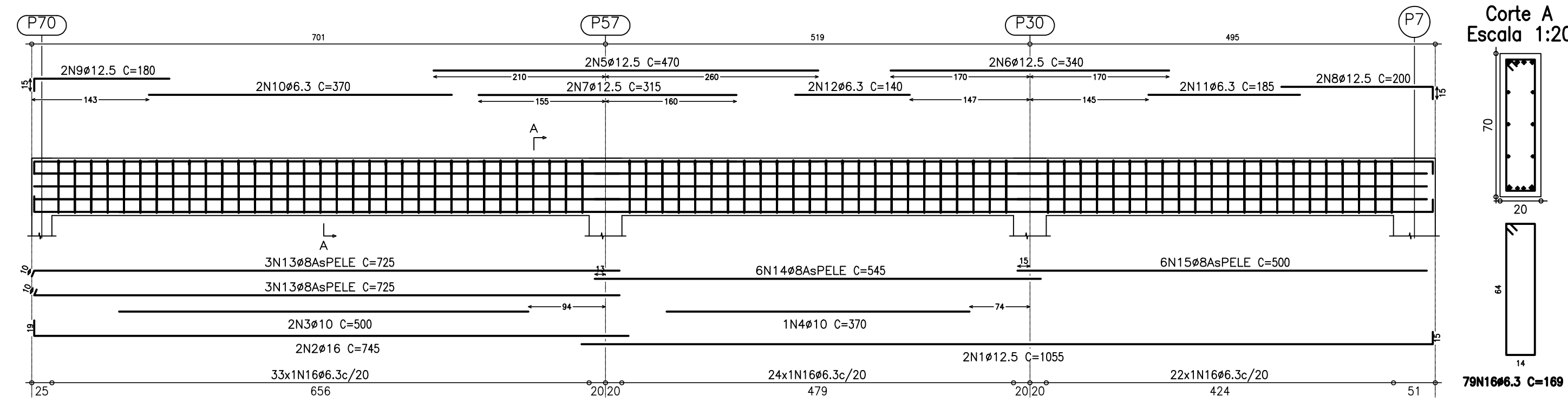


Plar ou muro oposto: P73 e P75
Ver espessa no detalhamento de pilares ou vista de muros

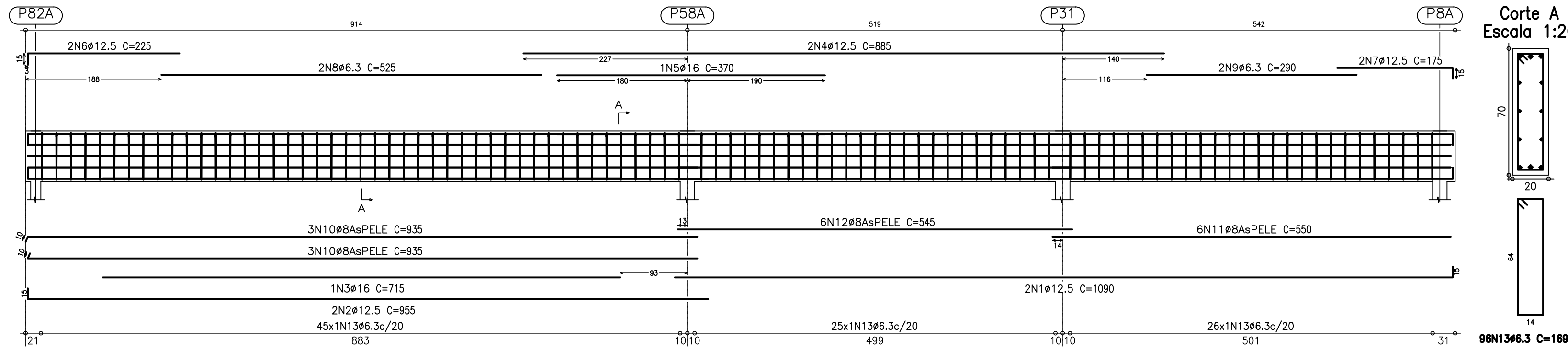
- NOTAS:
1. CONCRETO fck 30MPa.
 2. MEDIDAS EM CENTIMETROS.
 3. COBERTURA PARA BLOCOS E BALDRAMES: 4,0cm.
 4. NÍVEL DE REFERÊNCIA VER PROJETO DE ARQUITETURA
 5. FUNDAÇÃO DE ACORDO COM PARECER TÉCNICO

	Elemento	Pos.	Diam. Q.	DoB. (cm)	Retor. (cm)	DoB. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)	
v6	1	#12,5	2	880	15	905	1810	178			
	2	#12,5	2	870	870	1740	171				
	3	#12,5	2	820	820	1640	161				
	4	#12,5	2	715	715	1430	140				
	5	#12,5	2	340	340	680	67				
	6	#12,5	2	320	320	640	63				
	7	#12,5	2	295	295	590	58				
	8	#6,3	2	337	8	345	690	17			
	9	#6,3	2	212	8	220	440	1,1			
	10	#6,3	2	170	170	340	0,8				
	11	#6,3	4	140	140	560	1,4				
	12	#8	6	475	475	2850	11,2				
	13	#8	24	450	450	10800	42,4				
	14	#8	48	395	395	15810	36,3				
Total+10R:									219,2		
v38	1	#20	2	26	792	26	844	1688	41,7		
	2	#16	3	301	19	320	960	15,1			
	3	#16	3	201	15	215	645	6,3			
	4	#16	2	19	251	19	540	8,5			
	5	#12,5	3	200	15	215	645	6,3			
	6	#10	2	183	10	185	360	2,4			
	7	#6,3	4	285	285	1140	2,8				
	8	#8	8	785	785	6280	24,0				
	9	#6,3	38	725	189	7182	17,8				
	Total+10R:									145,9	
	v7	1	#12,5	2	810	15	825	1650	16,2		
		2	#12,5	2	870	870	1740	17,1			
		3	#12,5	2	870	885	1770	17,4			
		4	#12,5	2	750	745	1490	14,6			
5		#12,5	2	295	295	590	5,8				
6		#12,5	2	295	295	590	5,8				
7		#6,3	2	327	8	335	670	1,7			
8		#6,3	2	140	140	280	0,7				
9		#6,3	2	170	170	340	0,8				
10		#6,3	2	292	300	600	1,5				
11		#6,3	2	327	8	335	670	1,7			
12		#8	6	490	500	3000	11,8				
13		#8	24	450	450	10800	42,4				
14		#6,3	118	10	445	169	19942	49,3			
Total+10R:									227,4		
v8	1	#12,5	2	1145	1155	2310	22,7				
	2	#12,5	2	920	15	935	1870	18,3			
	3	#12,5	1	910	910	1820	18,1				
	4	#12,5	2	450	450	900	8,8				
	5	#12,5	1	380	380	760	7,1				
	6	#12,5	1	300	300	600	2,9				
	7	#12,5	1	295	295	590	2,9				
	8	#6,3	2	465	465	930	2,3				
	9	#10	4	303	315	1260	7,9				
	10	#12,5	2	735	735	1470	13,8				
	11	#12,5	2	330	330	660	6,5				
	12	#10	2	300	300	600	3,8				
	13	#12,5	1	265	265	530	2,6				
	14	#12,5	1	240	240	480	2,4				
v17A	1	#12,5	2	1155	2350	227					
	2	#12,5	2	920	15	935	1870	18,3			
	3	#12,5	1	910	910	1820	18,1				
	4	#12,5	2	450	450	900	8,8				
	5	#12,5	1	380	380	760	7,1				
	6	#12,5	1	300	300	600	2,9				
	7	#12,5	1	295	295	590	2,9				
	8	#6,3	2	465	465	930	2,3				
	9	#10	4	303	315	1260	7,9				
	10	#12,5	2	735	735	1470	13,8				
	11	#12,5	2	330	330	660	6,5				
	12	#10	2	300	300	600	3,8				
	13	#12,5	1	265	265	530	2,6				
	14	#12,5	1	240	240	480	2,4				
v39	1	#16	2	19	1060	24	1117	2222	34,9		
	2	#12,5	2	1075	15	1090	2150	21,1			
	3	#12,5	3	545	545	1635	16,0				
	4	#12,5	3	305	915	305	9,0				
	5	#16	2	19	246	265	530	8,3			
	6	#12,5	2	15	220	215	430	4,2			
	7	#12,5	2	180	20	200	400	3,9			
	8	#12,5	2	15	15	150	300	2,9			
	9	#6,3	3	165	165	495	1,2				
	10	#6,3	14	150	150	770	30,5				
	11	#8	14	300	10	540	7500	29,7			
	12	#6,3	64	10	229	14956	36,2				
	Total+10R:									163,0	
	v11	1	#16	2	720	1440	22,6				
2		#16	2	686	19	705	1410	22,1			
3		#16	1	465	465	930	5,7				
4		#12,5	2	445	445	890	8,7				
5		#12,5	2	250	265	530	5,2				
6		#10	1	235	235	470	4,6				
7		#12,5	3	420	420	840	12,4				
8		#12,5	3	15	430	1290	12,7				
9		#10	4	275	275	1100	6,9				
10		#12,5	2	275	275	550	5,4				
11		#12,5	2	155	155	310	3,3				
12		#6,3	2	315	315	630	1,6				
13		#6,3	2	255	255	510	1,3				
14		#8	12	650	650	7800	30,6				
v12	1	#16	2	710	1420	22,3					
	2	#16	2	681	19	710	1420	22,3			
	3	#16	1	465	465	930	5,7				
	4	#16	1	430	430	860	8,6				
	5	#12,5	2	250	265	530	5,2				
	6	#10	1	230	230	460	4,6				
	7	#16	2	19	445	445	890	8,9			
	8	#16	2	425	425	850	13,3				
	9	#12,5	2	275	275	550	5,4				
	10	#12,5	2	170	170	340	0,8				
	11	#12,5	2	165	165	330	3,3				
	12	#6,3	2	310	310	620	1,5				
	13	#6,3	2	215	215	430	0,8				
	14	#8	12	650	650	7800	30,6				
v13	1	#16	2	710	1420	22,3					
	2	#16	2	681	19	710	1420	22,3			
	3	#16	1	465	465	930	5,7				
	4	#16	1	430	430	860	8,6				
	5	#12,5	2	250	265	530	5,2				
	6	#10	1	230	230	460	4,6				
	7	#16	2	19	445	445	890	8,9			
	8	#16	2	425	425	850	13,3				
	9	#12,5	2	275	275	550	5,4				
	10	#12,5	2	170	170	340	0,8				
	11	#12,5	2	165	165	330	3,3				
	12	#6,3	2	310	310	620	1,5				
	13	#6,3	2	215	215	430	0,8				
	14	#8	12	650	650	7800	30,6				
v14	1	#16	2	720	1440	22,6					
	2	#16	2	686	19	705	1410	22,1			
	3	#16	1	465	465	930	5,7				
	4	#12,5	2	445	445	890	8,7				
	5	#12,5	2	250	265	530	5,2				
	6	#10	1	235	235	470	4,6				
	7	#12,5	3	420	420	840	12,4				
	8	#12,5	3	15	430	1290	12,7				
	9	#10	4	275	275	1100	6,9				
	10	#12,5	2	275	275	550	5,4				
	11	#12,5	2	155	155	310	3,3				
	12	#6,3	2	315	315	630	1,6				
	13	#6,3	2	255	255	510	1,3				
	14	#8	12	650	650	7800	30,6				
v20	1	#16	2	710	1420	22,3					
	2	#16	2	681	19	710	1420	22,3			
	3	#16	1	465	465	930	5,7				
	4	#16	1	430	430	860	8,6				
	5	#12,5	2	250	265	530	5,2				
	6	#10	1	235	235	470	4,6				
	7	#12,5	3	420	420	840	12,4				
	8	#12,5	3	15	430	1290	12,7				
	9	#10	4	275	275	1100	6,9				
	10	#12,5	2	275	275	550	5,4				
	11	#12,5	2	155	155	310	3,3				
	12	#6,3	2	315	315	630	1,6				
	13	#6,3	2	255	255	510	1,3				
	14	#8	12	650	650	7800	30,6				
v15	1	#12,5	3	695	695	2085	20,5				
	2	#16	2	645	19	710	1420	22,3			
	3	#12,5	2	645	645	1290	12,1				
	4	#12,5	3	635	635	1905	18,7				
	5	#12,5	2	225	225	450	5,4				
	6	#12,5	3	430	430	860	8,6				
	7	#12,5	3	415	415	1245	12,2				
	8	#12,5	3	280	280	840	8,3				
	9	#10	3	255	255	765	4,8				
	10	#12,5	2	165	165	330	3,3				
	11	#6,3	2	315	315	630	1,6				
	12	#6,3	2	245	245	490	1,2				
	13	#6,3	12	650	650	7800	30,6				
	14	#8	6	230	240	1440	5,7				
v16	1	#6,3	58	10	230	169	11999	29,7			
	Total+10R:									219,2	

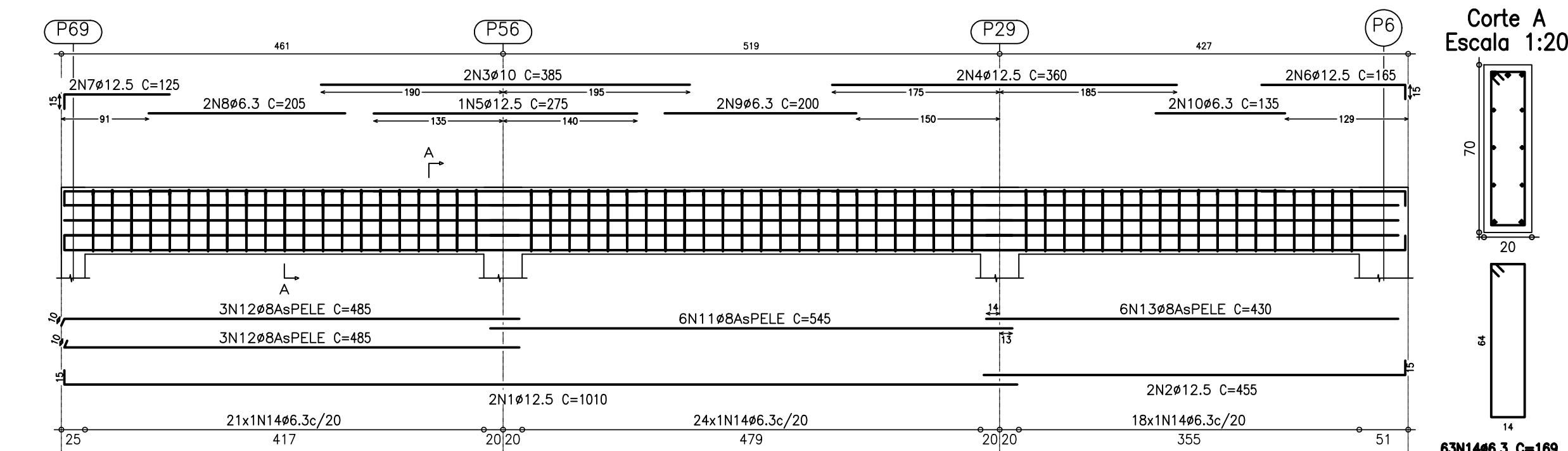
V25
Escala 1:50



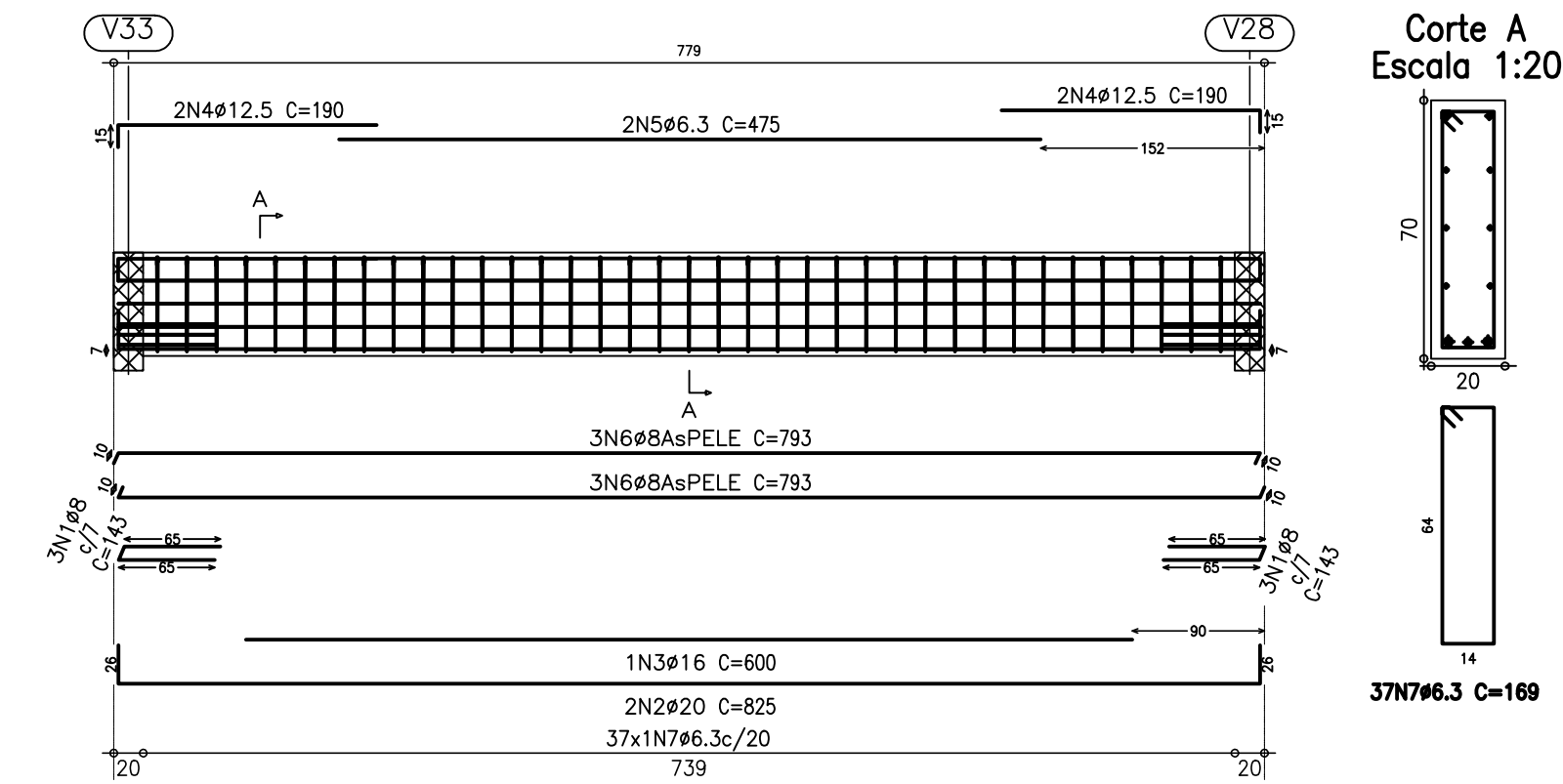
V26
Escala 1:50



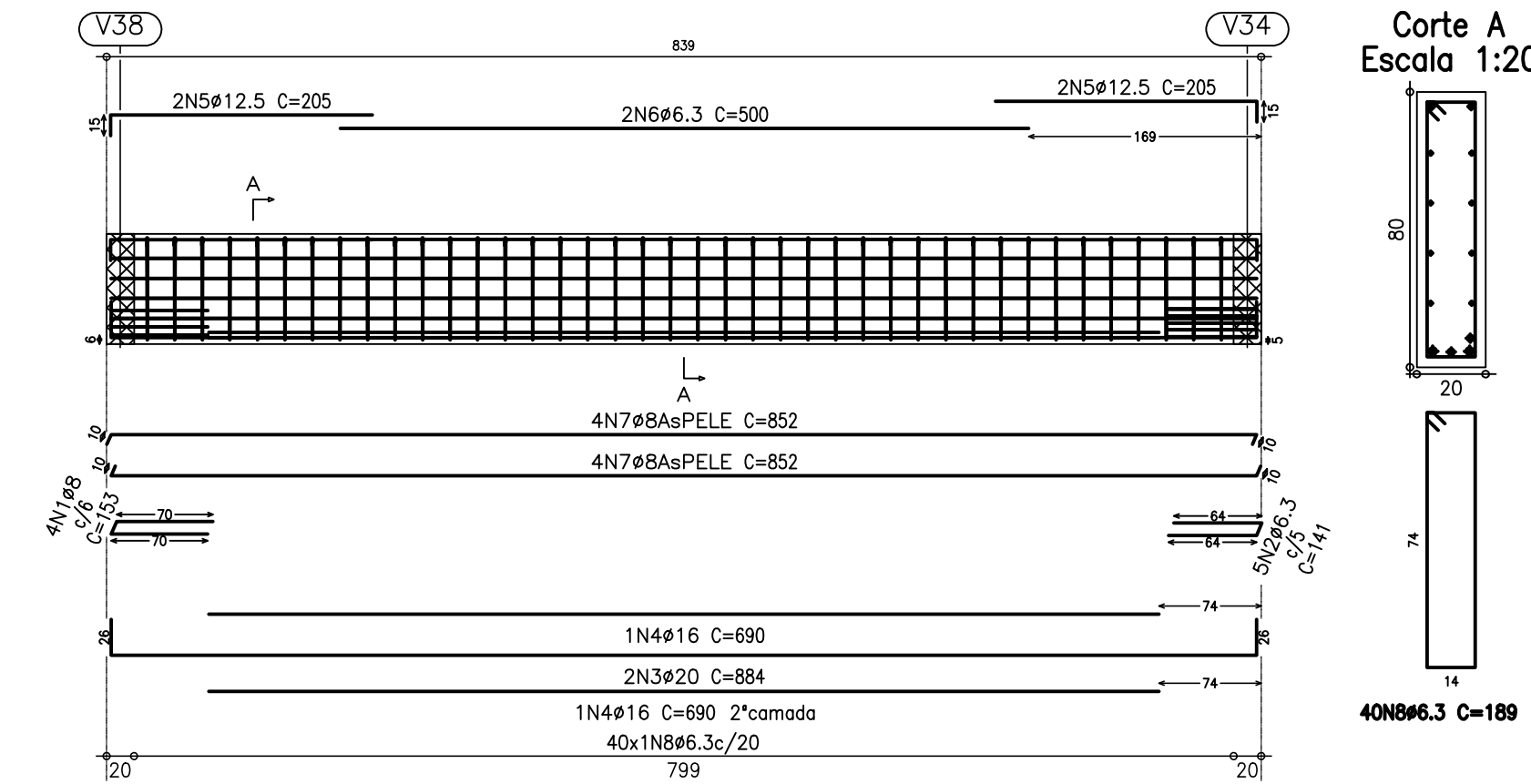
V24
Escala 1:50



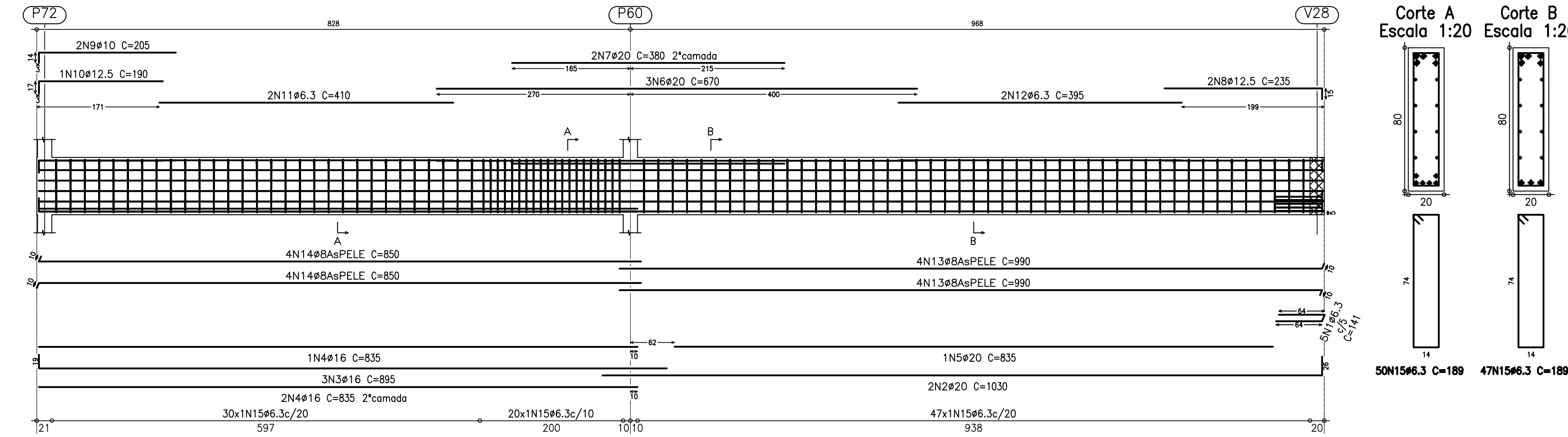
V43
Escala 1:50



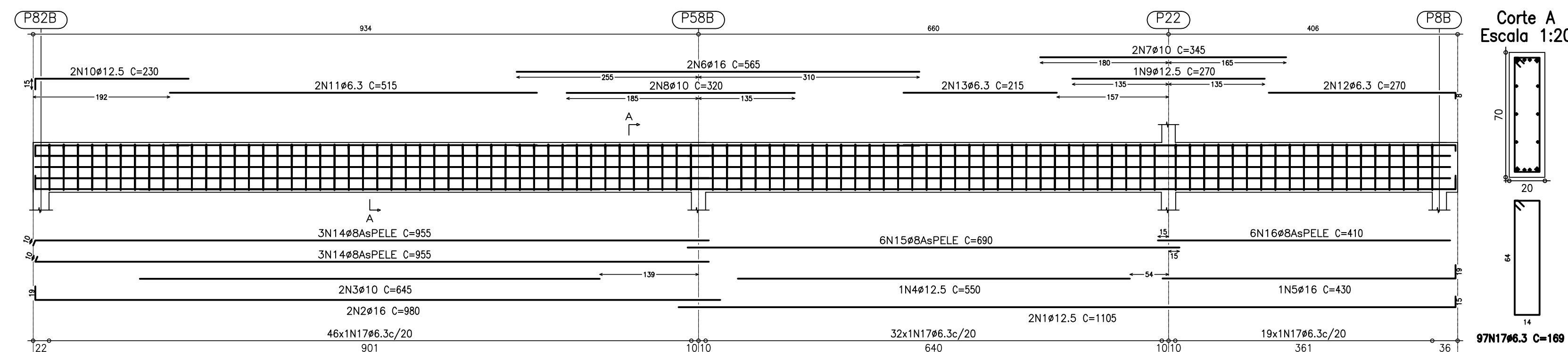
V44
Escala 1:50



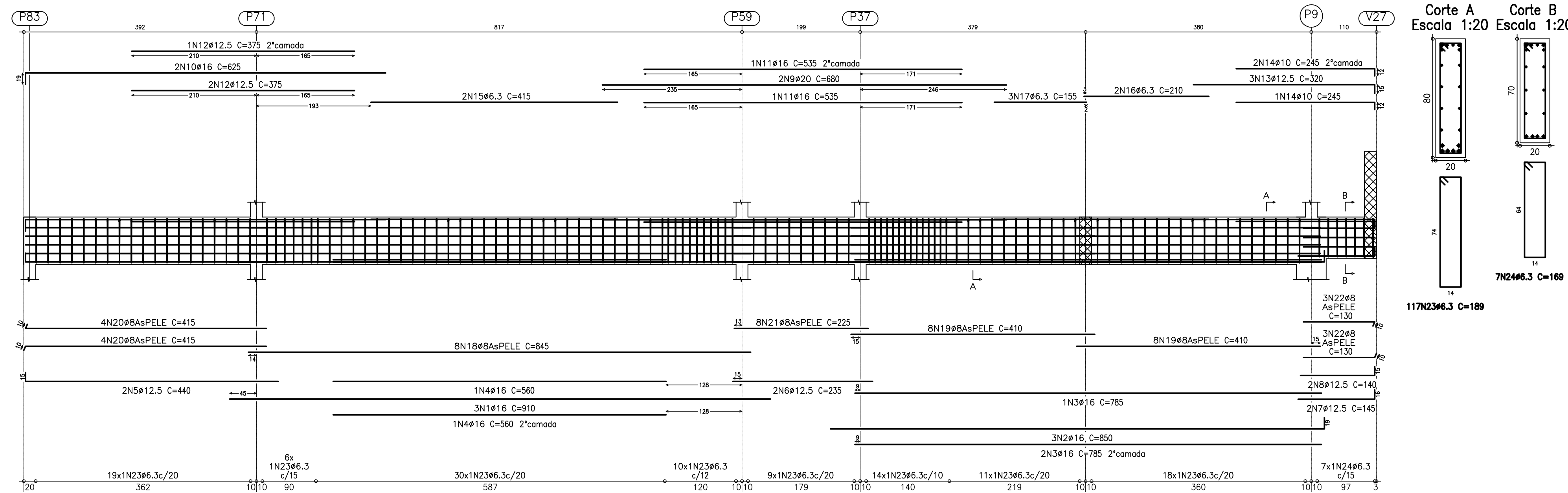
V46
Escala 1:50



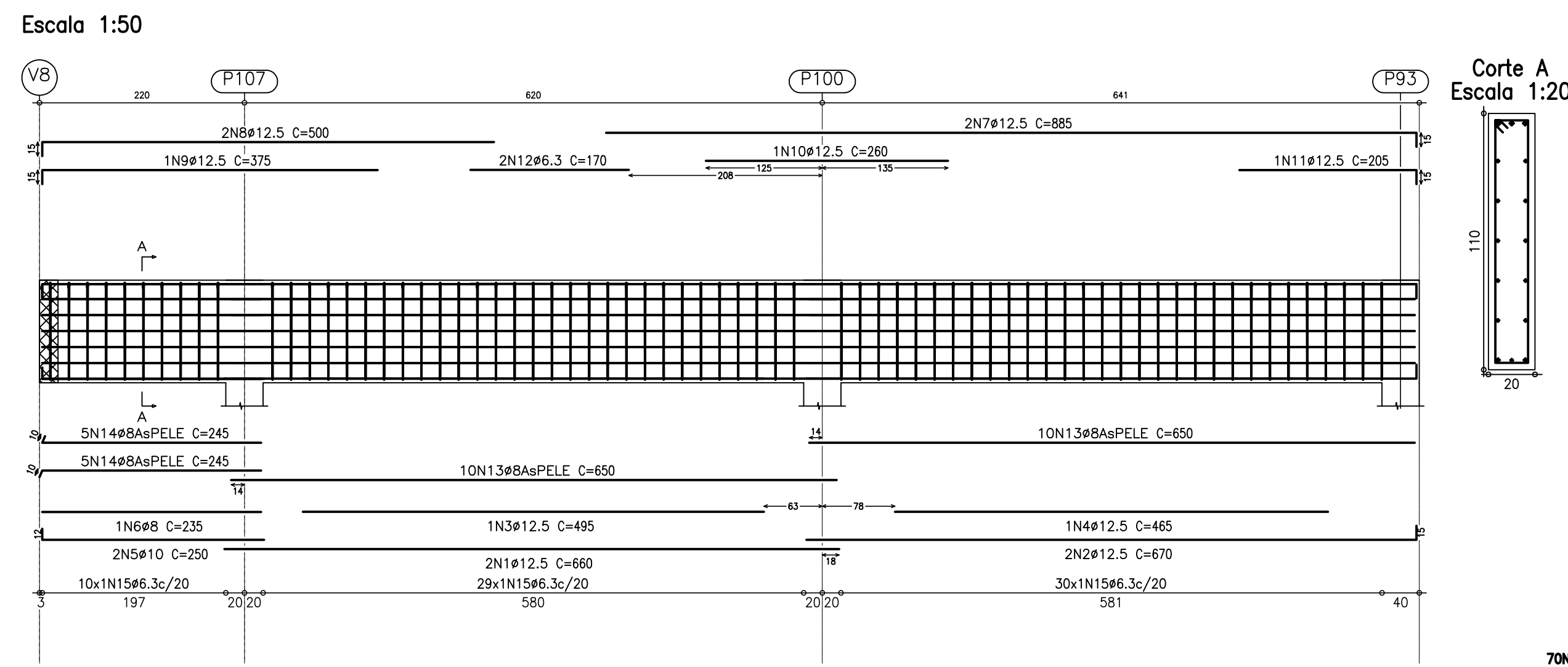
V41
Escala 1:50



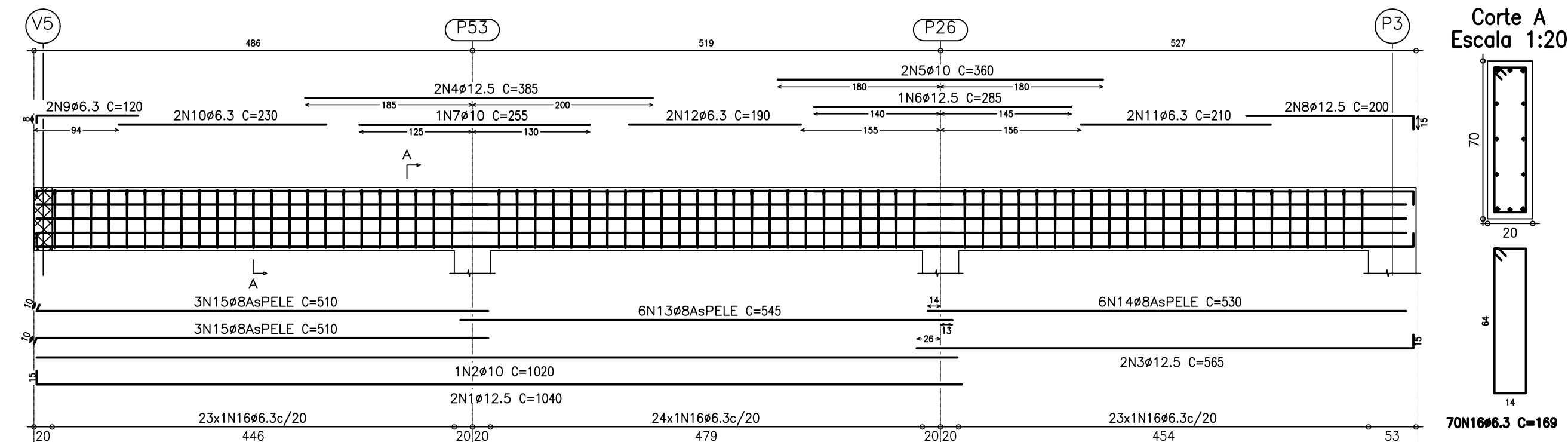
V42
Escala 1:50



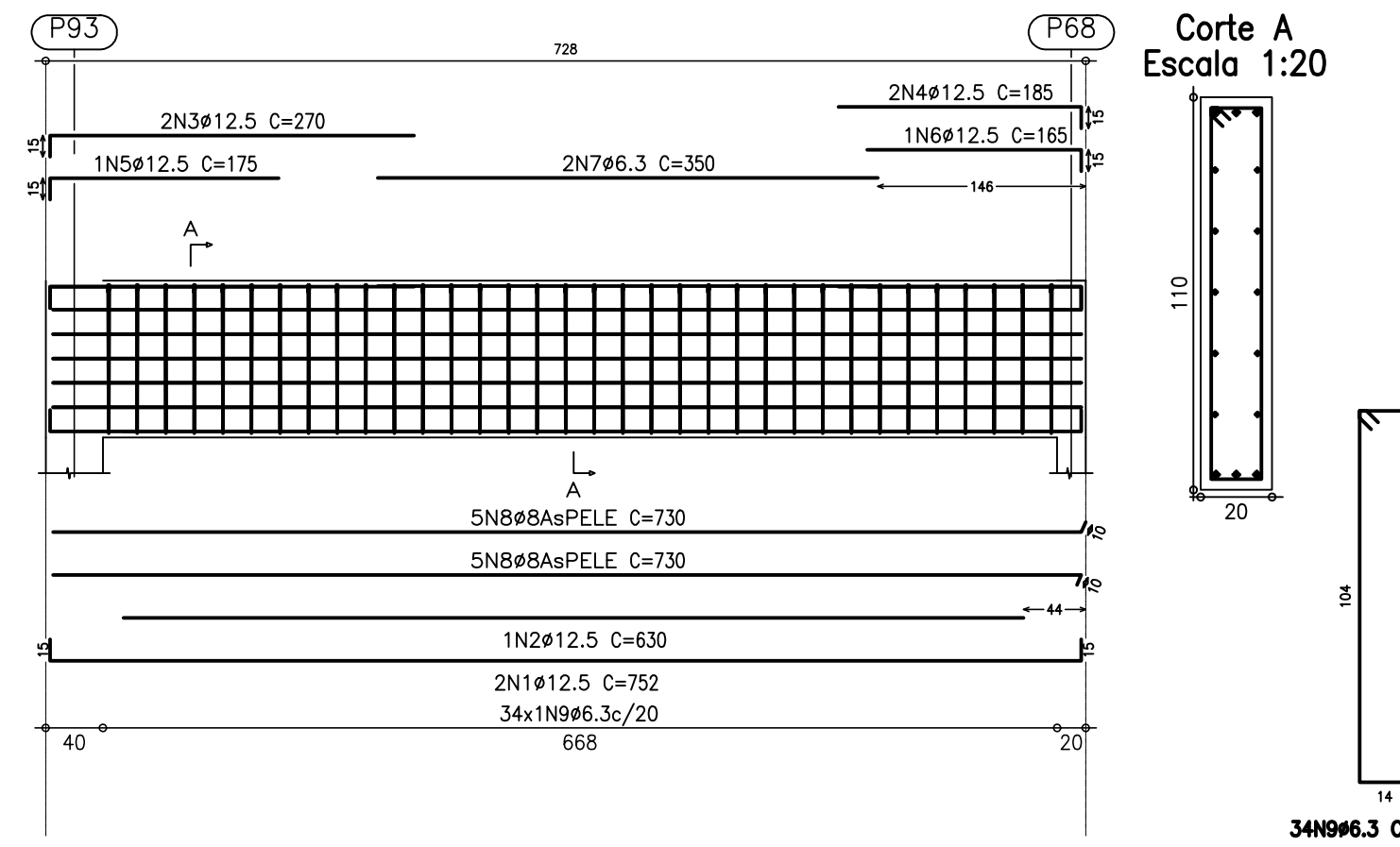
V16



V21
Escala 1:50

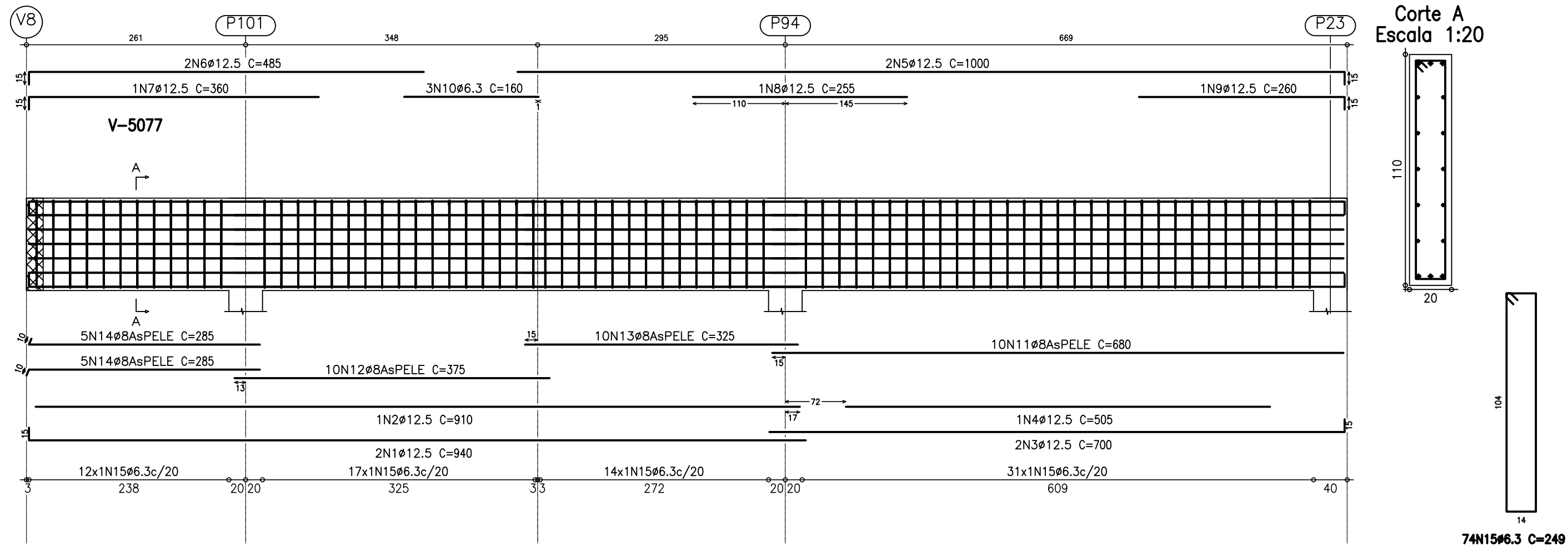


V17
Escala 1:50

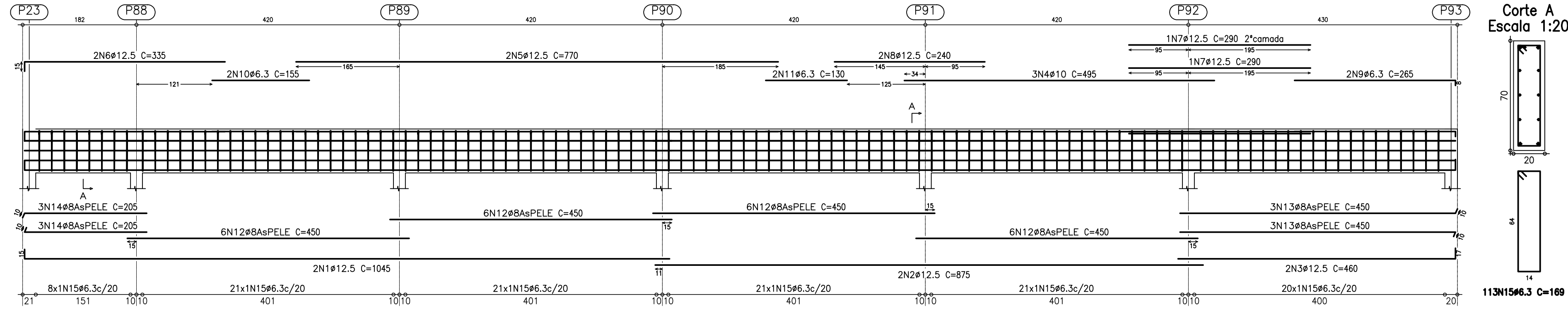


Elemento	Pos.	Diã.m	Q.	Dob.(Reta)	Dob.(Comp.)	Total	CA-50-A	CA-60-B				
v25	1	ø12.5	2	15	1040	15	1055	2110	20.7			
	2	ø10	2	19	720	145	865	1730	13.4			
	3	ø10	2	15	500	500	500	1000	6.3			
	4	ø10	2	15	370	370	370	740	3.4			
	5	ø12.5	2	15	470	470	470	940	9.2			
	6	ø12.5	2	15	340	340	340	680	6.7			
	7	ø12.5	2	15	315	315	315	630	6.2			
	8	ø12.5	2	15	185	185	185	370	4.0			
	9	ø6.3	2	15	270	270	270	540	3.5			
	10	ø6.3	2	15	185	185	185	370	2.6			
	11	ø6.3	2	15	165	165	165	330	1.8			
	12	ø6.3	2	15	140	140	140	280	0.7			
	13	ø8	6	10	545	545	545	1090	12.8			
	14	ø8	6	10	500	500	500	1000	11.8			
	15	ø6.3	79		18351	18351	18351	36702	40.1			
	v26	1	ø12.5	2	15	1075	15	1090	2160	21.4		
2		ø12.5	2	15	940	940	940	1880	18.7			
3		ø16	1	15	370	370	370	740	5.8			
4		ø12.5	2	15	210	210	210	420	4.4			
5		ø16	1	15	160	160	160	320	3.4			
6		ø12.5	2	15	525	525	525	1050	2.6			
7		ø6.3	2	15	280	280	280	560	1.4			
8		ø8	6	10	925	925	925	1850	22.0			
9		ø8	6	10	550	550	550	1100	13.0			
10		ø8	6	10	545	545	545	1090	12.8			
11		ø6.3	86		18224	18224	18224	36448	40.1			
v24		1	ø12.5	2	15	995	15	1010	2020	19.8		
		2	ø12.5	2	15	440	440	440	880	8.9		
		3	ø10	2	15	385	385	385	770	4.8		
		4	ø12.5	2	15	360	360	360	720	7.1		
		5	ø12.5	2	15	275	275	275	550	2.7		
	6	ø12.5	2	15	150	150	150	300	3.2			
	7	ø12.5	2	15	110	110	110	220	2.5			
	8	ø6.3	2	15	205	205	205	410	1.0			
	9	ø6.3	2	15	200	200	200	400	1.0			
	10	ø6.3	2	15	135	135	135	270	0.7			
	11	ø8	6	10	245	245	245	490	12.8			
	12	ø8	6	10	475	475	475	950	11.4			
	13	ø8	6	10	430	430	430	860	10.1			
	14	ø6.3	63		1697	1697	1697	3394	26.3			
	v43	1	ø8	6	10	65	13	65	13	868	3.4	
		2	ø20	26	832	26	832	1664	42.9			
3		ø16	1	15	600	600	600	1200	9.4			
4		ø12.5	2	15	175	175	175	350	3.4			
5		ø6.3	2	15	475	475	475	950	2.3			
6		ø8	6	10	773	773	773	1546	18.7			
7		ø6.3	37		169	169	169	338	15.5			
v41		1	ø12.5	2	15	1090	15	1105	2210	21.7		
		2	ø16	2	19	961	961	961	1922	30.8		
		3	ø10	2	15	645	645	645	1290	8.1		
		4	ø12.5	2	15	500	500	500	1000	5.4		
		5	ø16	1	19	411	411	411	822	6.8		
		6	ø16	1	19	355	355	355	710	5.7		
		7	ø10	2	15	345	345	345	690	4.3		
		8	ø10	2	15	320	320	320	640	4.0		
		9	ø12.5	2	15	270	270	270	540	2.6		
	10	ø12.5	2	15	215	215	215	430	4.5			
	11	ø6.3	2	15	515	515	515	1030	2.5			
	12	ø6.3	2	15	262	262	262	524	1.3			
	13	ø6.3	2	15	215	215	215	430	1.1			
	14	ø8	6	10	945	945	945	1890	22.5			
	15	ø8	6	10	690	690	690	1380	16.2			
	16	ø8	6	10	410	410	410	820	9.7			
v44	1	ø8	4	70	13	70	133	612	2.4			
	2	ø20	26	832	26	832	1664	42.9				
	3	ø16	1	15	680	680	680	1360	21.7			
	4	ø12.5	2	15	180	180	180	360	8.0			
	5	ø6.3	2	15	500	500	500	1000	2.5			
	6	ø8	6	10	832	832	832	1664	26.8			
	7	ø6.3	40		189	189	189	378	18.7			
	v42	1	ø16	3	910	19	850	2550	40.0			
		2	ø16	3	831	19	785	2355	37.0			
		3	ø16	3	785	19	740	2160	34.0			
		4	ø16	3	560	19	560	1120	17.6			
		5	ø12.5	2	15	425	425	425	850	8.6		
		6	ø12.5	2	15	235	235	235	470	4.6		
		7	ø12.5	2	15	129	129	129	258	2.8		
		8	ø12.5	2	15	125	125	125	250	2.7		
		9	ø20	2	680	680	680	1360	33.6			
10		ø16	3	606	625	625	1250	19.6				
11		ø16	3	535	535	535	1070	16.8				
12		ø12.5	3	375	375	375	750	11.2				
13		ø12.5	3	305	305	305	610	9.4				
14		ø10	3	233	233	233	466	7.35				
15		ø6.3	2	415	415	415	830	2.1				
16		ø6.3	2	210	210	210	420	1.0				
v47	1	ø16	3	19	788	19	626	2478	38.9			
	2	ø12.5	2	15	655	15	655	1310	20.6			
	3	ø12.5	2	15	245	15	245	490	5.1			
	4	ø12.5	2	15	455	15	455	910	13.7			
	5	ø10	4	330	330	330	660	8.3				
	6	ø12.5	2	15	175	15	175	350	3.7			
	7	ø6.3	2	15	415	15	415	830	2.1			
	8	ø8	6	10	780	780	780	1560	24.			
	9	ø8	6	10	245	10	245	490	10.1			
	10	ø6.3	37		189	189	189	378	17.3			
	11	ø6.3	11		189	189	189	378	2.9			
	v46	1	ø6.3	5	64	13	64	141	705	0.8		
		2	ø16	1	15	655	15	655	1310	20.6		
		3	ø16	3	19	876	895	895	1790	22.7		
		4	ø16	3	835	835	835	1670	20.9			
		5	ø20	1	835	835	835	1670	20.9			
6		ø20	1	676	676	676	1352	16.9				
7		ø16	3	380	380	380	760	9.4				
8		ø12.5	2	220	220	220	440	4.7				
9		ø10	2	14	191	191	191	382	2.6			
10		ø12.5	1	17	173	190	190	380	1.9			
11		ø6.3	2	410	410	410	820	2.8				
12		ø6.3	2	395	395	395	790	2.6				
13		ø8	6	840	840	840	1680	26.5				
14		ø8	6	840	840	840	1680	26.5				
15		ø6.3	97		189	189	189	378	33.3			
v16		1	ø12.5	2	15	660	15	660	1320	13.0		
	2	ø12.5	2	15	445	15	445	890	9.4			
	3	ø12.5	2	15	465	465	465	930	4.8			
	4	ø12.5	2	15	238	238	238	476	2.4			
	5	ø8	1	235	235	235	470	1.6				
	6	ø12.5	2	15	1770	1770	1770	3540	17.4			
	7	ø12.5	2	15	485	500	500	1000	9.8			
	8	ø12.5	2	15	395	395	395	790	7.6			
	9	ø12.5	2	15	260	260	260	520	4.9			
	10	ø12.5	2	15	205	205	205	410	3.8			
	11	ø12.5	2	15	170	170	170	340	0.8			
	12	ø6.3	2	15	650	650	650	1300	12.8			
	13	ø8	10	235	245	245	490	10.2				
	14	ø8	10	500	510	510	1020	20.4				
	15	ø6.3	69		249	249	249	498	36.7			
	v21	1	ø12.5	2	15	1025	10	1040	2080	20.4		
2		ø10	1	1020	1020	1020	2040	11.1				
3		ø12.5	2	15	500	500	500	1000	6.3			
4		ø12.5	2	15	385	385	385	770	3.7			
5		ø10	2	15	370	370	370	740	1.6			
6		ø12.5	2	15	285	285	285	570	2.6			
7		ø10	2	15	255	255	255	510	2.3			
8		ø12.5	2	15	185	185	185	370	3.9			
9		ø6.3	2	15	112	112	112	224	0.8			
10		ø6.3	2	15	228	228	228	456	1.1			
11		ø6.3	2	15	210	210	210	420	0.8			
12		ø6.3	2	15	190	190	190	380	0.7			
13		ø6.3	2	15	545	545	545	1090	12.8			
14		ø8	6	10	530	530	530	1060	11.8			
15		ø8	6	10	500	500	500	1000	11.8			
v17		1	ø12.5	2	15	722	15	752	1504	14.8		
	2	ø20	26	832	26	832	1664	42.9				
	3	ø12.5	2	15	255	270	270	540	5.3			
	4	ø12.5	2	15	170	185	185	370	3.7			
	5	ø12.5	2	15	160	175	175	350	3.2			
	6	ø12.5	2	15	150	165	165	330	3.1			
	7	ø6.3	2	15	300	315	315	630	6.0			
	8	ø10	2	15	720	730	730	1460	28.7			
	9	ø10	2	15	249	249	249	498	4.9			
	v18	1	ø12.5	2	15	1025	10	1040	2080	20.4		
		2	ø10	1	1020	1020	1020	2040	11.1			
		3	ø12.5	2	15	500	500	500	1000	6.3		
		4	ø12.5	2	15	385	385	385	770	3.7		
		5	ø10	2	15	370	370	370	740	1.6		
		6	ø12.5	2	15	285	285	285	570	2.6		
		7	ø10	2	15	255	255	255	510	2.3		
8		ø12										

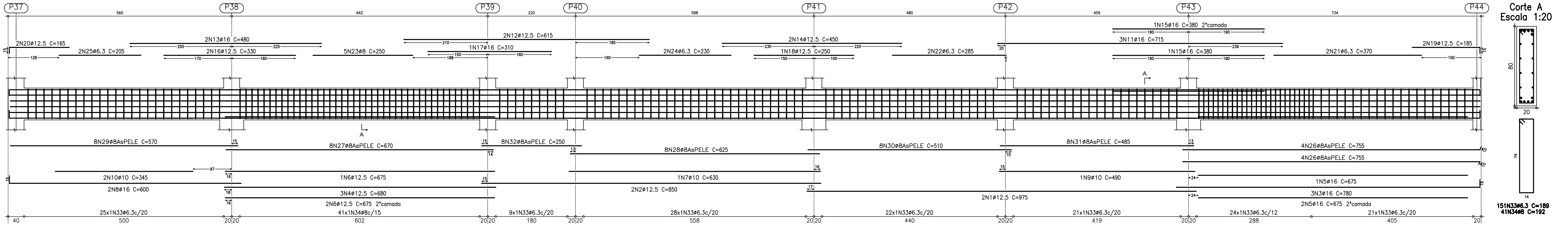
V9
Escala 1:50



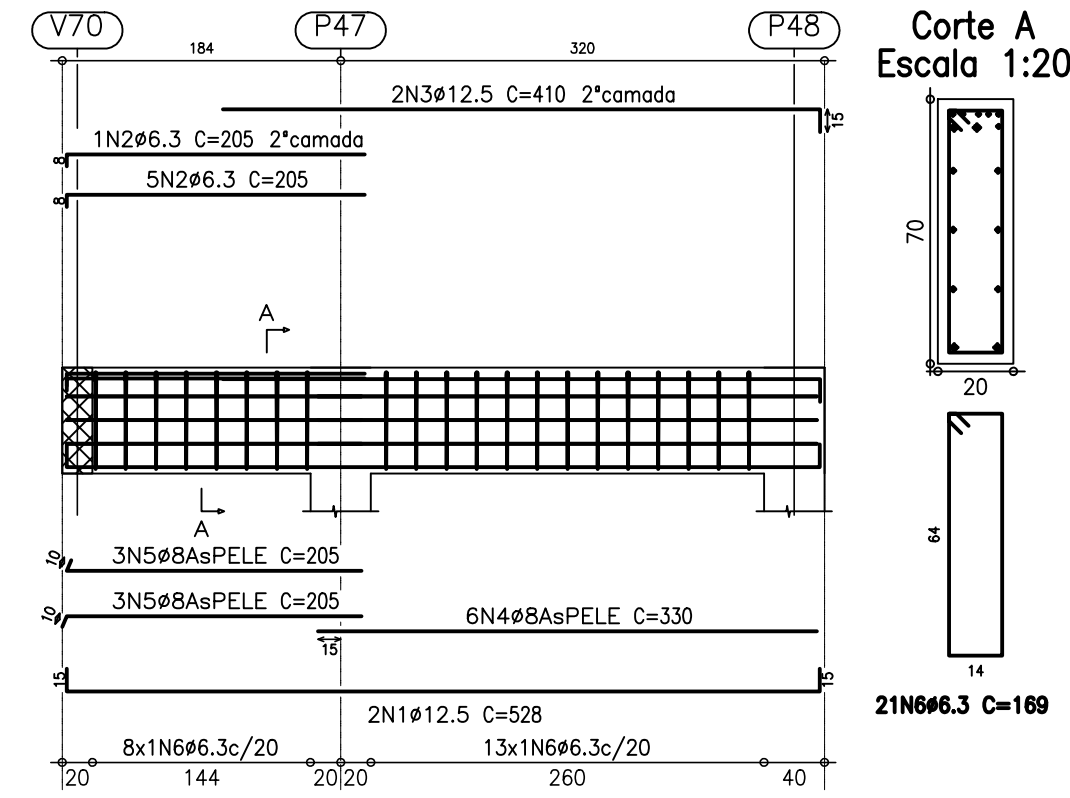
V5
Escala 1:50



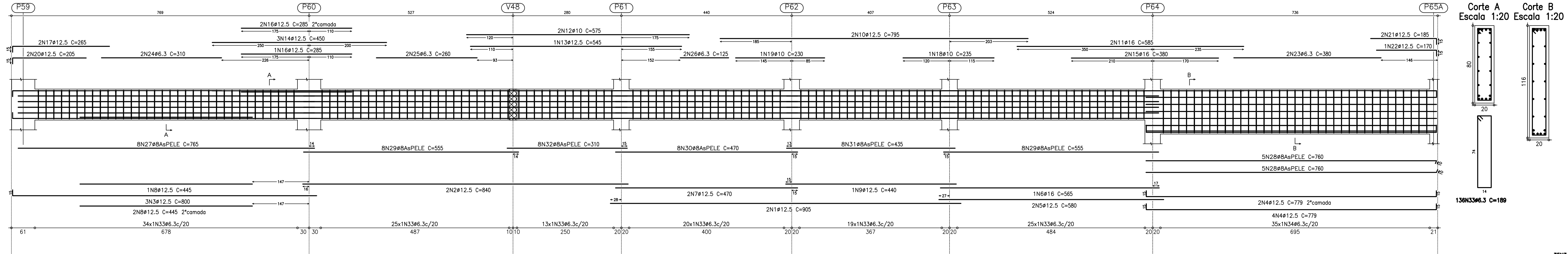
V33
Escala 1:50



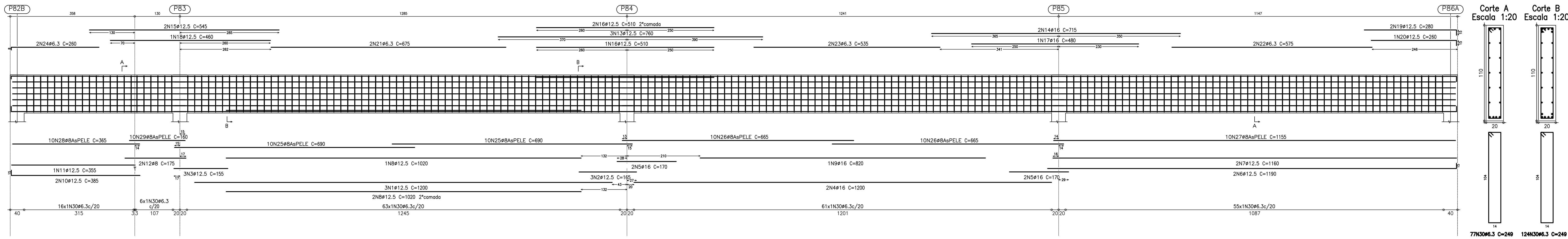
V67
Escala 1:50



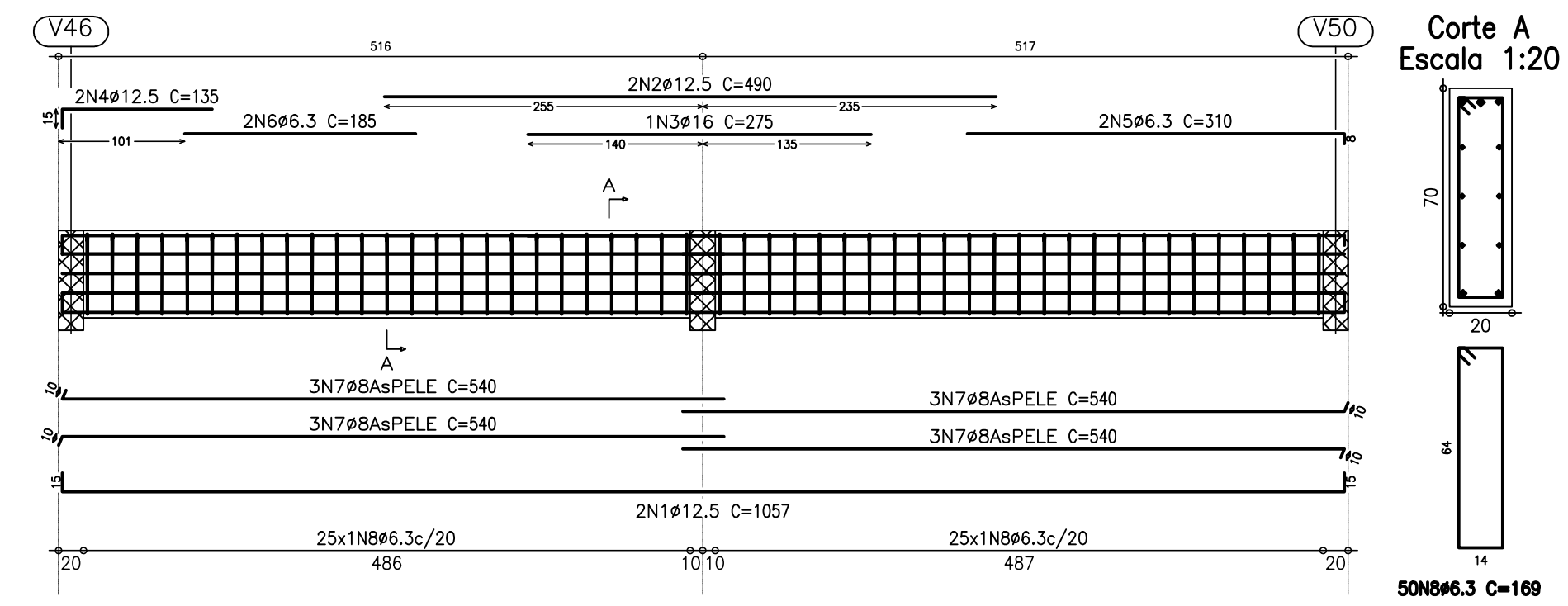
V34
Escala 1:50



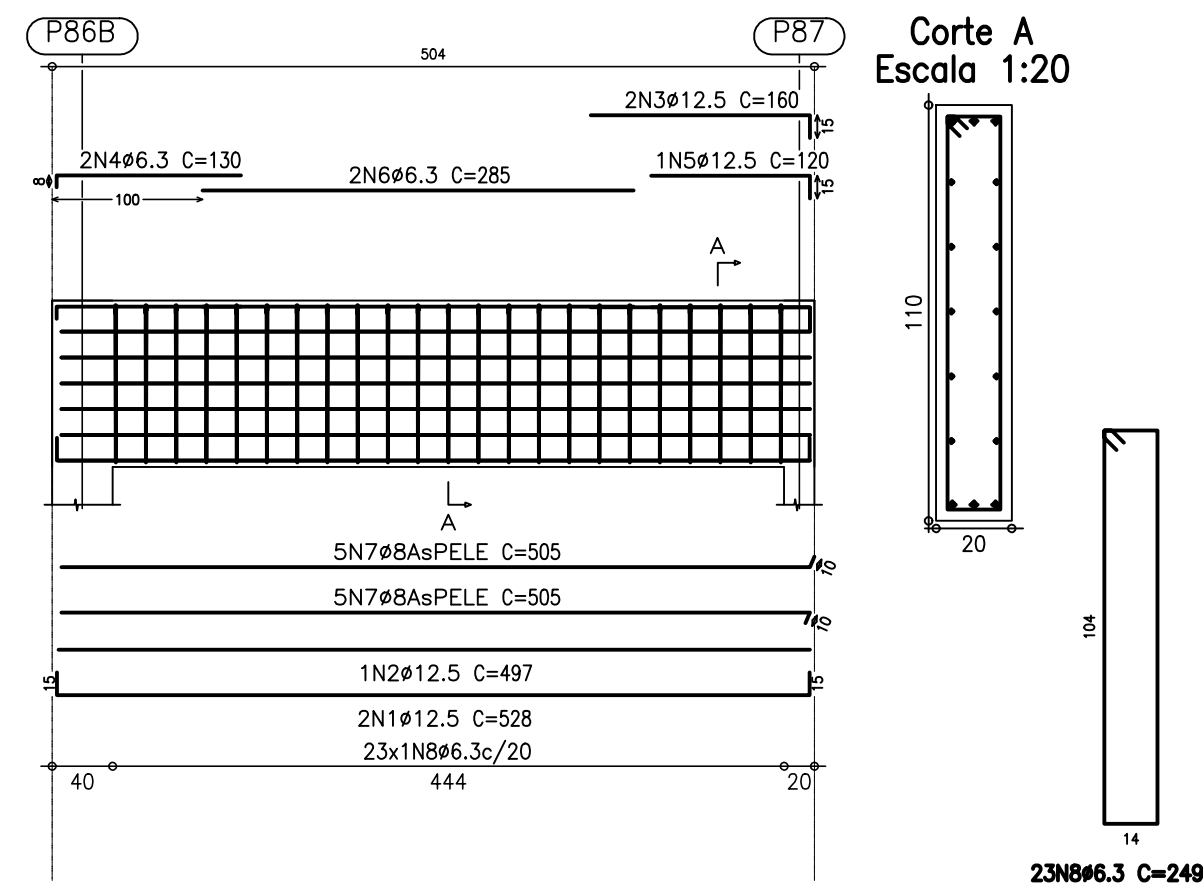
V40
Escala 1:50



V36
Escala 1:50



V69
Escala 1:50



- NOTAS:
1. CONCRETO fck 30MPa.
 2. MEDIDAS EM CENTIMETROS.
 3. COBERTIMENTO PARA BLOCOS E BALDRAMES: 4,0cm.
 4. NÍVEL DE REFERÊNCIA VER PROJETO DE ARQUITETURA
 5. FUNDAÇÃO DE ACORDO COM PARECER TÉCNICO

Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50-A	CA-50-B
V40	1	#12.5	3	1200	1500	3600	35.3			
	2	#12.5	3	155	495	4.9				
	3	#12.5	3	155	495	4.6				
	4	#16	2	1200	2400	37.7				
	5	#16	4	170	680	10.7				
	6	#12.5	2	1175	15	1190	2380	23.4		
	7	#12.5	2	1160	15	1160	2330	22.8		
	8	#12.5	3	1020	1020	3060	30.0			
	9	#16	1	800	800	12.8				
	10	#12.5	2	15	370	7.6				
	11	#12.5	1	355	355	5.5				
	12	#8	2	175	175	350	1.4			
	13	#12.5	2	780	2260	22.4				
	14	#16	2	715	1430	22.5				
	15	#12.5	2	545	545	1090	10.7			
	16	#12.5	3	510	1530	15.0				
	17	#16	1	480	480	480	7.5			
	18	#12.5	1	460	460	460	4.5			
	19	#12.5	2	265	265	560	5.5			
	20	#12.5	1	15	280	280	2.6			
	21	#6.3	2	675	675	1350	3.3			
	22	#6.3	2	575	575	1150	2.8			
	23	#6.3	3	535	1570	15.0	2.6			
	24	#6.3	2	8	252	260	5.3			
	25	#8	20	680	680	13600	54.2			
	26	#8	20	665	665	13300	52.2			
	27	#8	10	115	115	1150	45.3			
	28	#8	10	365	365	3650	14.3			
	29	#8	10	180	180	3600	45.3			
	30	#6.3	201	249	5068	123.8				
	Total+10%: 650.8									
V69	1	#12.5	2	15	488	15	528	1058	10.4	
	2	#12.5	2	15	497	15	497	4.9		
	3	#12.5	2	145	15	160	320	3.1		
	4	#6.3	8	122	15	130	260	0.6		
	5	#12.5	1	105	15	120	120	1.2		
	6	#6.3	2	285	570	1.4				
	7	#8	10	495	10	505	5050	19.8		
	8	#6.3	23	249	1577	14.2				
	Total+10%: 61.2									
V9	1	#12.5	2	15	925	940	1880	18.4		
	2	#12.5	2	910	910	8.9				
	3	#12.5	2	685	15	700	1400	13.7		
	4	#12.5	1	505	505	505	5.0			
	5	#12.5	2	885	15	1000	2000	19.6		
	6	#12.5	2	15	470	485	970	9.5		
	7	#12.5	1	15	345	360	360	3.3		
	8	#12.5	1	205	255	255	2.5			
	9	#12.5	1	250	250	500	4.6			
	10	#6.3	3	10	160	160	480	1.2		
	11	#8	10	680	680	6800	26.7			
	12	#8	10	375	375	3750	14.7			
	13	#8	10	325	325	3250	12.8			
	14	#8	10	275	275	2750	11.2			
	15	#6.3	74	249	18426	45.6				
	Total+10%: 215.5									
V33	1	#12.5	2	975	975	1950	19.1			
	2	#12.5	2	850	850	1700	16.7			
	3	#16	3	181	543	2040	36.7			
	4	#12.5	3	680	680	2040	20.0			
	5	#16	3	675	675	2025	31.8			
	6	#12.5	3	675	675	2025	19.9			
	7	#10	1	630	630	630	4.0			
	8	#16	2	19	381	600	1200	18.8		
	9	#10	1	490	490	490	3.1			
	10	#10	2	345	345	690	4.3			
	11	#16	3	715	715	2145	33.7			
	12	#12.5	2	615	615	1230	12.1			
	13	#16	2	480	480	960	15.1			
	14	#12.5	2	450	450	900	8.8			
	15	#16	2	380	380	760	8.0			
	16	#12.5	2	330	330	660	6.5			
	17	#16	1	310	310	620	4.9			
	18	#12.5	1	250	250	250	2.5			
	19	#12.5	2	170	170	340	3.6			
	20	#12.5	2	15	165	330	3.2			
	21	#6.3	2	370	370	740	1.8			
	22	#6.3	2	285	285	570	1.5			
	23	#8	5	250	250	1250	4.9			
	24	#6.3	2	330	330	660	1.1			
	25	#6.3	2	305	305	610	1.0			
	26	#8	8	755	6040	23.7				
	27	#8	8	670	5360	21.0				
	28	#8	8	625	625	5000	19.6			
	29	#8	8	570	4560	17.9				
	30	#8	8	510	510	4080	15.0			
	31	#8	8	485	3880	15.2				
	32	#8	8	250	250	2000	7.9			
	33	#6.3	150	189	28550	70.1				
	34	#8	41	192	7872	30.9				
	Total+10%: 560.1									
V67	1	#12.5	2	15	488	15	528	1058	10.4	
	2	#6.3	6	8	197	205	1230	3.0		
	3	#12.5	2	395	15	410	820	8.0		
	4	#8	6	330	330	1980	7.8			
	5	#12.5	6	105	205	1230	4.8			
	6	#6.3	21	169	3549	4.8				
	Total+10%: 47.1									
V34	1	#12.5	2	905	905	1810	17.8			
	2	#12.5	2	840	840	1680	16.5			
	3	#12.5	3	15	785	800	2400	23.6		
	4	#12.5	6	149	779	4674	45.9			
	5	#12.5	2	565	565	1130	11.4			
	6	#16	3	580	580	1740	11.4			
	7	#12.5	2	470	470	940	9.2			
	8	#12.5	3	445	445	1335	13.1			
	9	#12.5	1	440	440	440	4.3			
	10	#12.5	2	795	795	1590	15.6			
	11	#16	2	865	865	1730	18.4			
	12	#10	2	575	575	1150	7.2			
	13	#12.5	1	545	545	545	3.3			
	14	#12.5	3	450	450	1350	13.2			
V5	1	#12.5	2	1030	1045	2090	20.5			
	2	#12.5	2	875	875	1750	17.2			
	3	#12.5	2	443	460	920	9.0			
	4	#10	3	495	495	1485	9.3			
	5	#12.5	2	770	770	1540	15.1			
	6	#12.5	2	320	335	670	6.6			
	7	#12.5	2	290	290	580	5.7			
	8	#12.5	2	240	240	480	4.7			
	9	#6.3	2	257	257	514	2.2			
	10	#6.3	2	155	155	310	0.8			
	11	#6.3	2	139	139	278	0.6			
	12	#8	24	400	400	10800	42.4			
	13	#8	24	440	440	11040	42.4			
	14	#8	6	10	555	8900	34.9			
	15	#6.3	112	189	25704	63.6				
	Total+10%: 513.2									
V36	1	#12.5	2	15	1027	15	1057	2114	20.7	
	2	#12.5	2	490	490	980	9.6			
	3	#12.5	2	490	490	980	9.6			
	4	#12.5	2	150	120	270	2.6			
	5	#6.3	31	302	8	310	6.2			
	6	#6.3	2	185	185	370	20.9			
	7	#6.3	12	530	10	540	25.4			
	8	#6.3	50	168	840	20.9				
	Total+10%: 90.5									
#1.5: 493.1 0.0										
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