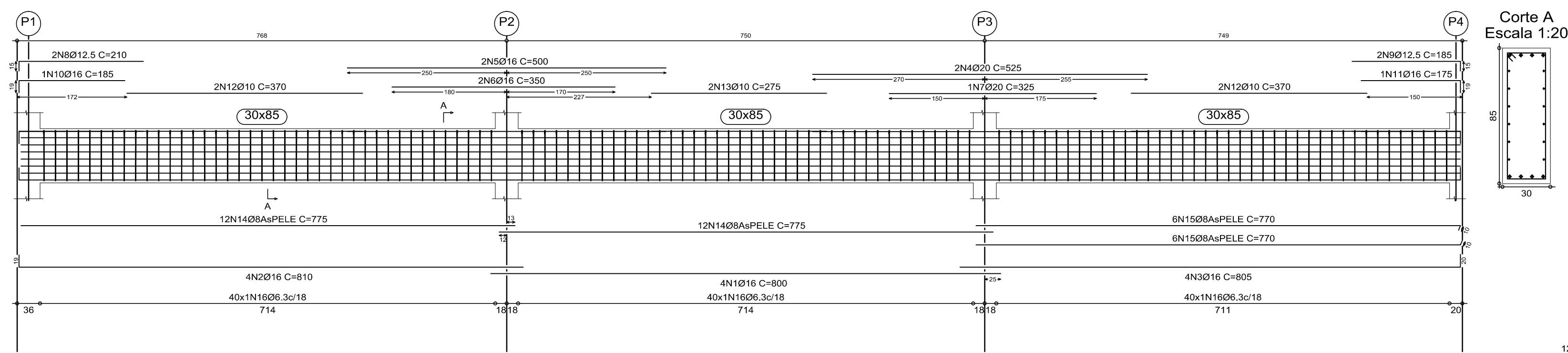
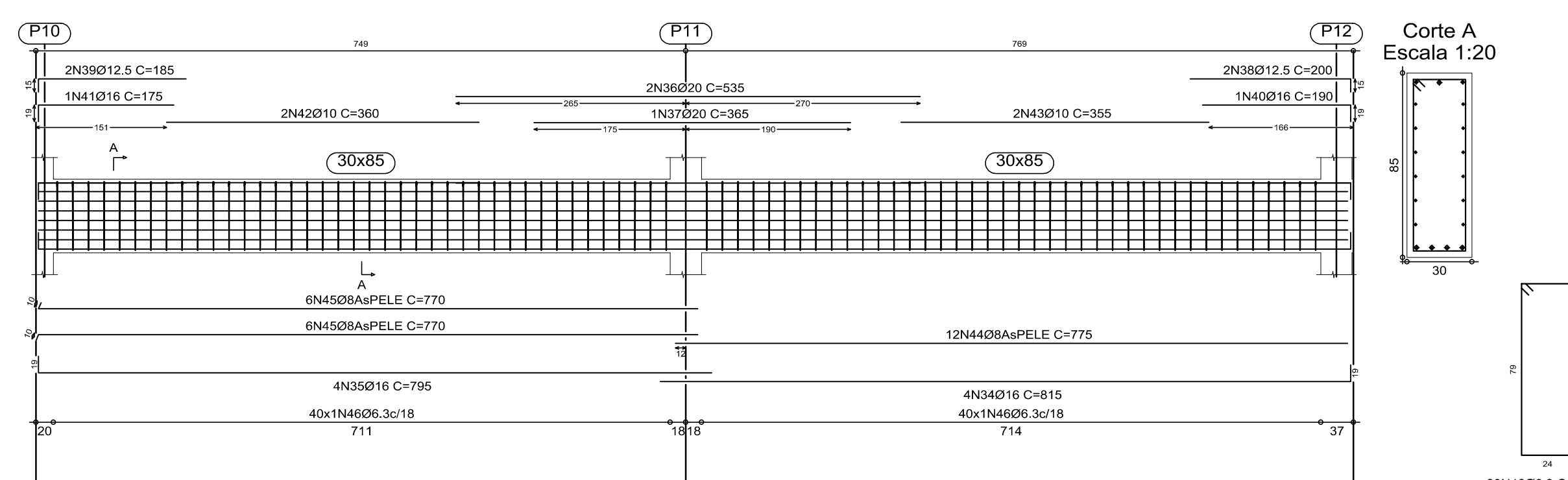


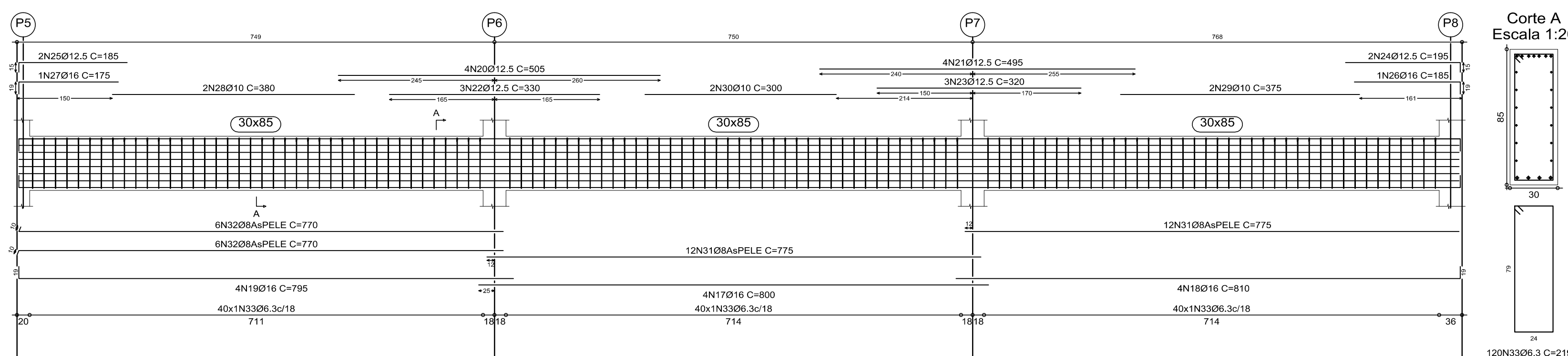
V 301  
Escala 1:50



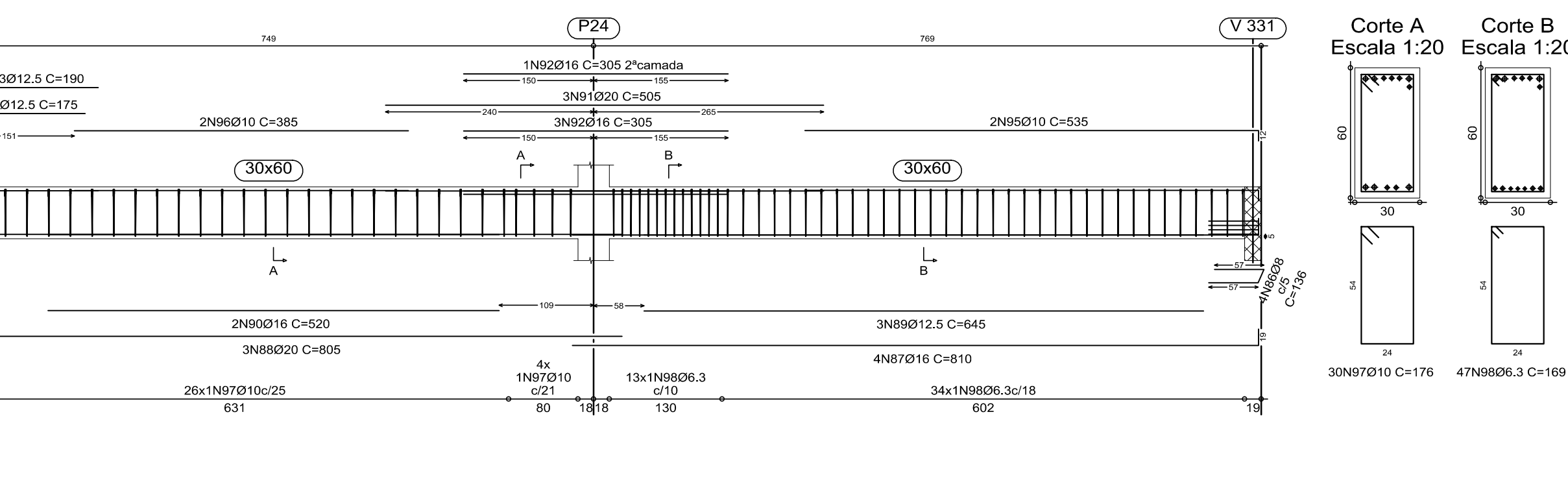
V 303  
Escala 1:50



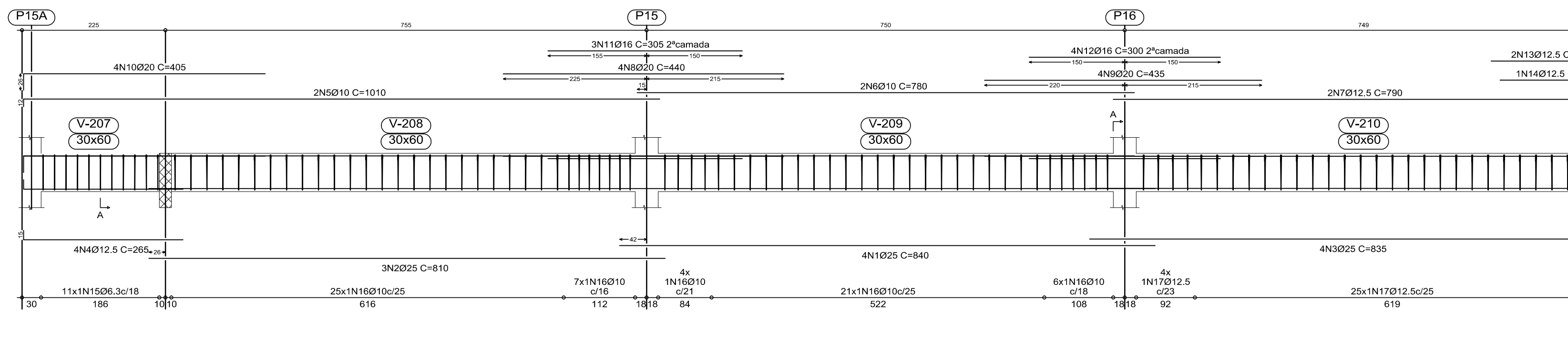
V 302  
Escala 1:50



V 306  
Escala 1:50



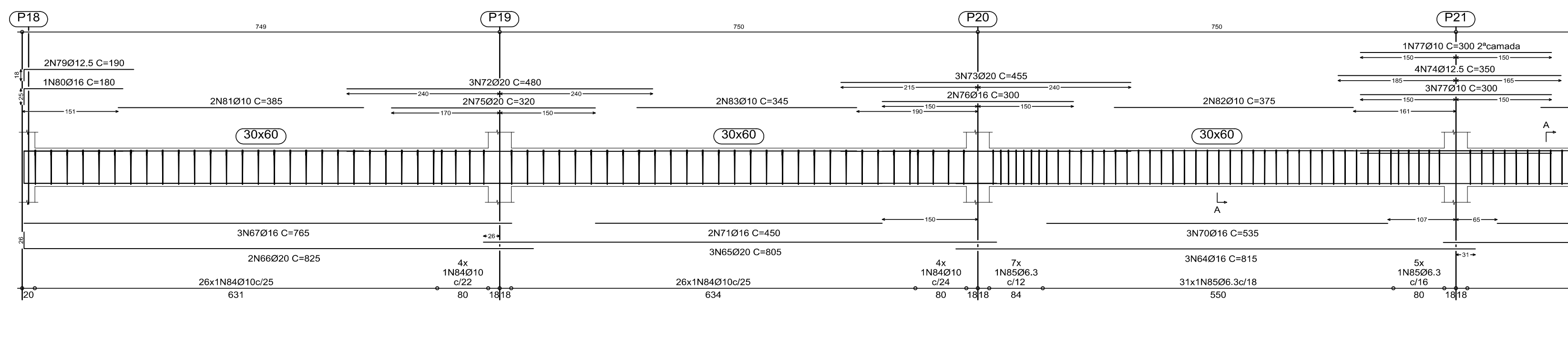
V 304  
Escala 1:50



V 307  
Escala 1:50



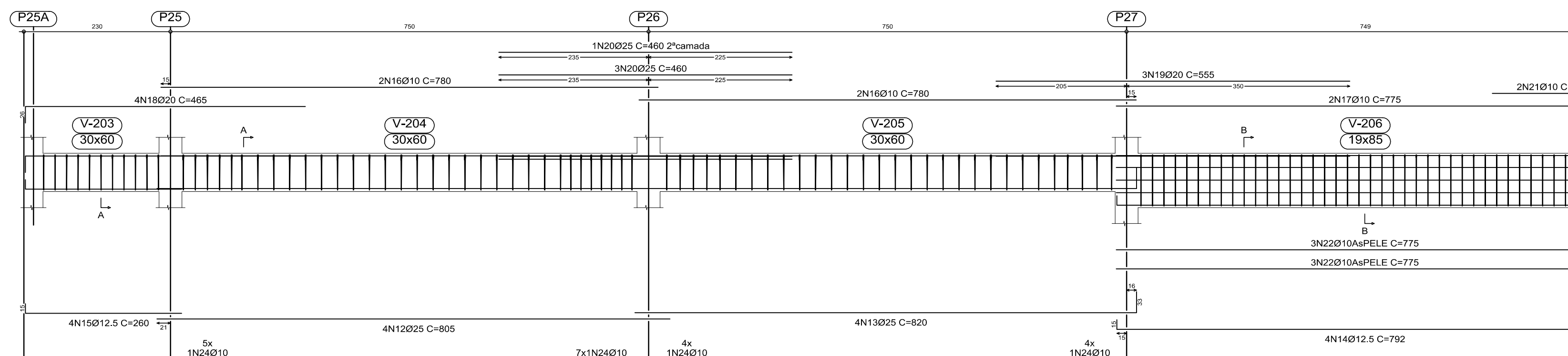
V 305  
Escala 1:50



V 307  
Escala 1:50



V 307  
Escala 1:50



V 307  
Escala 1:50



Resumo Apo 2 Pavimento	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A 06.3	3220.9	876	
08	2475.9	1069	
010	1353.2	935	
012.5	1207.4	1303	
016	845.5	1460	
020	542.3	1475	
025	19.7	85	7203
CA-60-B 05	476.7	82	82
Total			7285

2 PAVIMENTO  
Desenho de vigas  
Concreto C30, em geral  
Apo: CA-50-A e CA-60-B  
Escala vigas: 1:50  
Escala seções: 1:20

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)	
V 301	1	016	4	800	800	3200	50.2			
	2	016	4	781	810	3240	50.8			
	3	016	4	785	805	3220	50.6			
	4	020	2	825	825	1000	26.0			
	5	016	2	500	500	1000	15.7			
	6	012.5	2	350	350	700	11.0			
	7	020	1	325	325	325	8.0			
	8	012.5	2	150	155	420	4.1			
	9	012.5	2	170	155	370	3.6			
	11	016	1	166	156	156	2.9			
	11	016	1	156	175	175	2.7			
	12	010	4	370	370	1480	8.3			
	13	010	2	275	275	550	3.5			
	14	08	24	775	775	18600	73.0			
	15	08	12	760	770	9240	36.3			
	16	06.3	120		119	20280	85.0			
Total+10%								454.1		
V 302	17	016	4	800	800	3200	50.2			
	18	016	4	781	810	3240	50.8			
	19	016	4	775	805	3180	49.8			
	20	012.5	4	505	505	2020	19.8			
	21	012.5	4	495	495	1980	19.4			
	22	012.5	3	330	330	990	9.7			
	23	012.5	3	320	320	960	9.4			
	24	012.5	2	180	155	390	3.8			
	25	012.5	2	170	155	370	3.6			
	26	016	1	166	155	155	2.9			
	27	016	1	156	175	175	2.7			
	28	010	2	380	380	760	4.8			
	29	010	2	375	375	750	4.7			
	30	010	2	300	300	600	3.8			
	31	08	24	775	775	18600	73.0			
	32	08	12	760	770	9240	36.3			
	33	06.3	120		119	20280	85.0			
Total+10%								450.9		
V 303	34	016	4	796	819	3260	51.2			
	35	016	4	776	795	3180	49.8			
	36	020	2	535	535	1070	26.5			
	37	020	1	365	365	365	9.0			
	38	012.5	2	185	155	400	3.9			
	39	012.5	2	170	155	370	3.6			
	40	016	1	171	190	190	3.0			
	41	016	1	166	175	175	2.7			
	42	010	2	360	360	720	4.5			
	43	010	2	355	355	710	4.3			
	44	08	12	775	775	9240	36.3			
	45	08	12	760	770	9240	36.3			
	46	06.3	80		219	17520	43.3			
Total+10%								322.4		
V 304	47	08	4	57	122	557	2.1			
	48	020	2	845	845	1690	14.8			
	49	016	4	786	815	3260	51.2			
	50	020	3	784	784	2352	60.1			
	52	016	2	685	685	1370	24.9			
	53	016	2	625	625	1250	16.5			
	54	020	4	500	500	2000	18.8			
	55	020	3	470	470	1410	14.9			
	56	016	4	300	300	1200	9.8			
	57	012.5	2	175	155	390	3.7			
	58	010	2	12	623	635	1070	6.7		
	59	010	2	380	380	760	4.8			
	61	010	2	325	325	650	4.1			
	62	06.3	80		169	13520	33.2			
	63	010	30		176	5280	33.2			
	Total+10%								326.1	
V 305	64	016	3	815	815	2445	38.4			
	65	020	2	805	805	2415	36.7			
	66	020	2	789	805	1590	40.8			
	67	016	3	765	765	2295	36.0			
	68	016	2	766	765	1530	24.8			
	69	016	1	610	610	1220	9.6			
	70	016	3	535	535	1605	25.2			
	71	016	2	490	490	980	14.1			
	72	020	3	480	480	1440	20.8			
	73	020	3	455	455	1365	13.8			
	74	012.5	4	300	300	1200	13.7			
	75	020	2	320	320	640	15.8			
	76	016	2	300	300	600	9.4			
	77	010	4	300	300	1200	7.5			
	78	010	2	613	613	1226	7.9			
	79	012.5	2	18	172	190	380	3.7		
	80	016	1	25	155	180	2.8			
	81	010	2	385	385	770	4.8			
	82	010	2	375	375	750	4.7			
	83	010	2	345	345	690	4.3			
	84	010	60		176	10560	26.3			
	85	06.3	83		169	14027	34.7			
Total+10%								342.7		
V 306	88	08	4	57	122	557	2.1			
	89	016	4	791	810	3240	50.8			
	90	020	3	26	779	805	2415	59.7		
	91	012.5	4	505	505	2020	19.8			
	92	016	2	645	645	1290	16.0			
	93	020	3	520	520	1560	16.3			
	94	020	3	470	470	1410	14.8			
	95	016	3	300	300	900	14.1			
	96	016	2	300	300	600	9.4			
	97	012.5	2	175	155	390	3.7			
	98	010	2	12	623	635	1070	6.7		
	99	010	2	385	385	770	4.8			
	100	010	2	323	323	646	4.1			
	101	010	30		176	5280	33.2			
	102	010	47		169	7943	19.6			
Total+10%								303.7		
V 307	99	020	2	850	850	1700	34.0			
	100	020	3	26	784	820	2460	59.8		
	101	020	2	780	780	1560	36.8			
	102	012.5	4	15	781	810	3180	49.8		
	103	016	2	660	660	1320	14.4			
	104	020	2	565	565	1130	27.9			
	105	020	3	470	470	1410	14.8			
	106	016	3	300	300	900	14.1			
	107	020	2	300	300	600	9.4			
	108	016	3	19	196	215	645	10.1		
	109	010	2	428	428	856	5.5			
	110	012.5	3	15	155	180	540	5.3		
	111	012.5	1	155	155	170	1.7			
	112	010	2	375	375	750	4.7			
	113	010	2	355	355	710	4.3			
	114	08	6	760	770	9240	36.3			
	115	010	60		176	10560	26.3			
	116	05	40		194	7760	19.6			
Total+10%								426.7	13.4	
								06	0.0	
								08	200.0	
								08	251.0	
								09	34.7	
								10	50.7	
								11	62.5	
								12	80.8	
								13	88.9	
								14	96.8	
								15	104.7	
								16	112.6	
								17	120.5	
								18	128.4	
								19	136.3	
								20	144.2	
								21	152.1	
								22	160.0	
								23	167.9	
								24	175.8	
								25	183.7	
								26	191.6	
								27	200.0	
								28	208.4	
								29	216.8	
								30	225.2	
								31	233.6	
								32	242.0	
								33	250.4	
								34	258.8	
								35	267.2	
								36	275.6	
								37	284.0	
								38	292.4	
								39	300.8	
								40	309.2	
								41	317.6	
								42	326.0	
								43	334.4	
								44	342.8	
								45	351.2	
								46	359.6	
								47	368.0	
								48	376.4	
								49	384.8	
								50	393.2	
								51	401.6	
								52	410.0	
								53	418.4	
								54	426.8	
								55	435.2	
								56	443.6	
								57	452.0	
								58	460.4	
								59	468.8	
								60	477.2	
								61	485.6	
								62	494.0	
								63	502.4	
								64	510.8	
								65	519.2	
								66	527.6	
								67	536.0	
								68	544.4	
								69	552.8	
								70	561.2	
								71	569.6	
								72	578.0	
								73	586.4	
								74	594.8	
								75	603.2	
								76	611.6	
								77	620.0	
								78	628.4	
								79	636.8	
								80	645.2	
								81	653.6	
								82	662.0	
								83	670.4	
								84	678.8	
								85	687.2	
								86	695.6	
								87	704.0	
								88	712.4	
								89	720.8	
								90	729.2	
								91	737.6	
								92	746.0	
								93	754.4	
								94	762.8	
								95	771.2	
								96	779.6	
								97	788.0	
								98	796.4	
								99	804.8	
								100	813.2	
								101	821.6	
								102	830.0	
								103	838.4	
								104	846.8	
								105	855.2	
								106	863.6	
								107	872.0	
								108	880.4	
								109	888.8	
								110	897.2	
								111	905.6	
								112	914.0	
								113	922.4	
								114	930.8	
								115	939.2	
								116	947.6	
								117	956.0	
								118	964.4	
								119	972.8	
								120	981.2	
								121	989.6	
								122	998.0	
								123	1006.4	
								124	1014.8	
								125	1023.2	
								126	1031.6	
								127	1040.0	
								128	1048.4	
								129	1056.8	
								130	1065.2	
								131	1073.6	
								132	1082.0	
								133	1090.4	
								134	1098.8	
								135	1107.2	
								136	1115.6	
								137	1124.0	
								138	1132.4	
								139	1140.8	
								140	1149.2	
								141	1157.6	
								142	1166.0	
								143	1174.4	
								144	1182.8	
								145	1191.2	
								146	1199.6	
								147	1208.0	
								148	1216.4	
								149	1224.8	
								150	1233.2	
								151	1241.6	
								152	1250.0	
								153	1258.4	
								154		