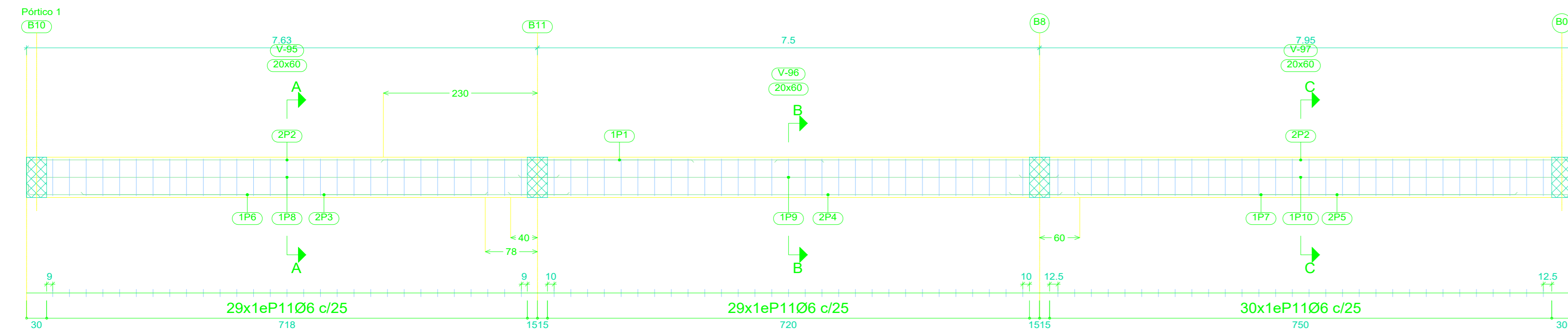
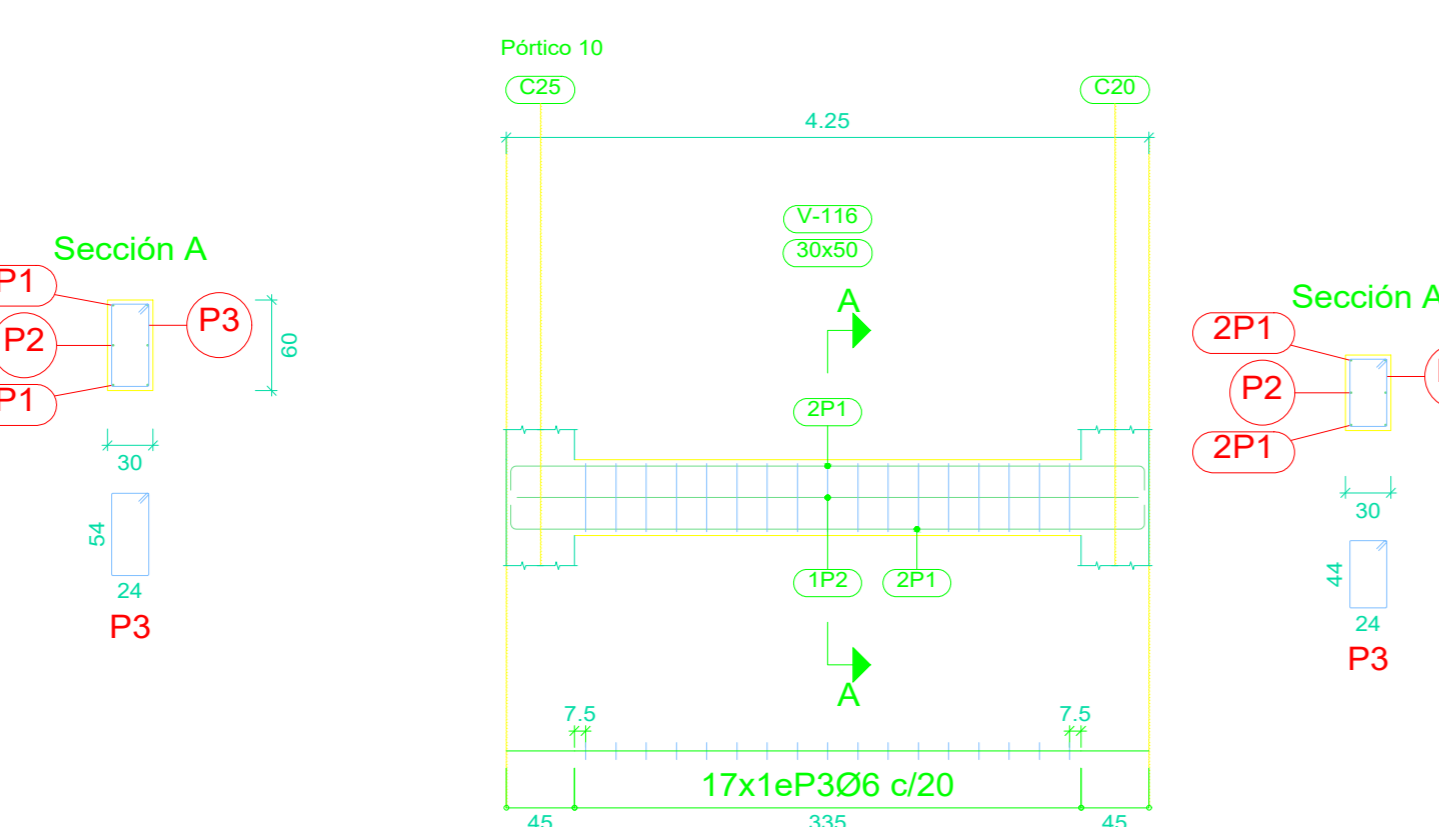
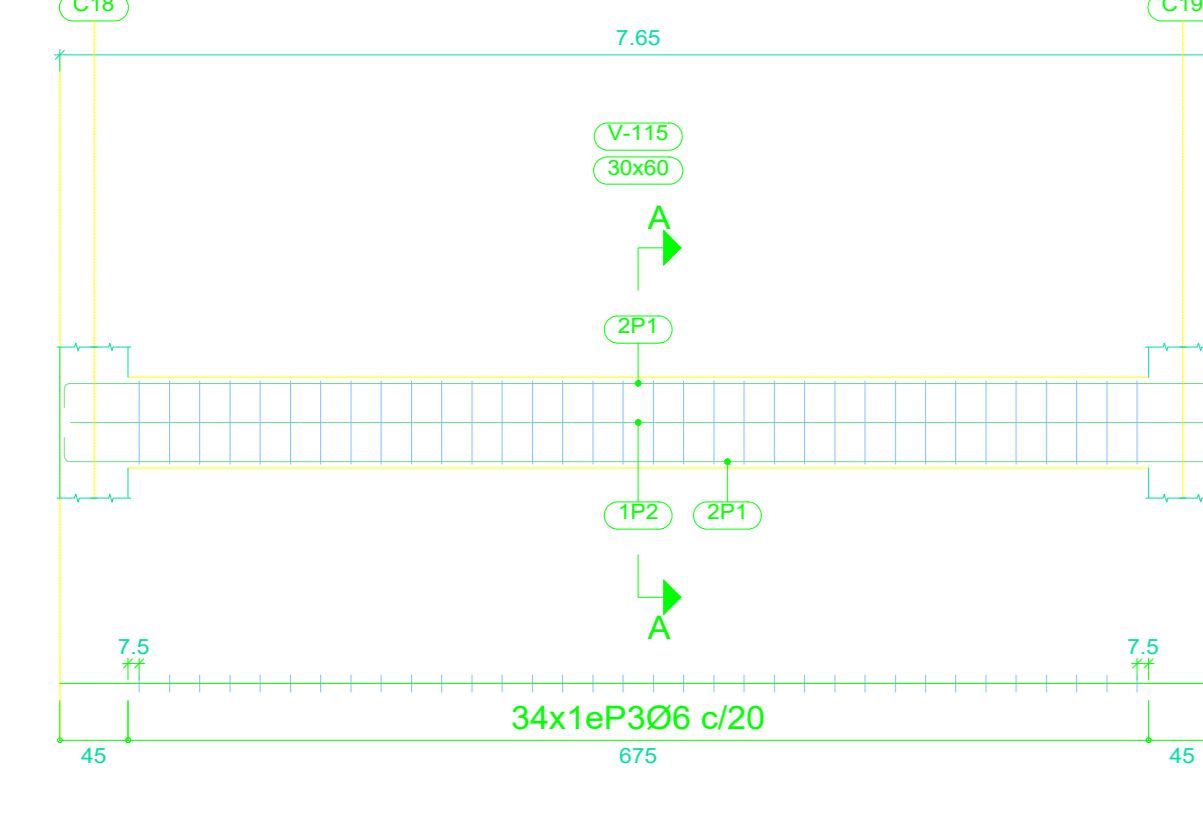
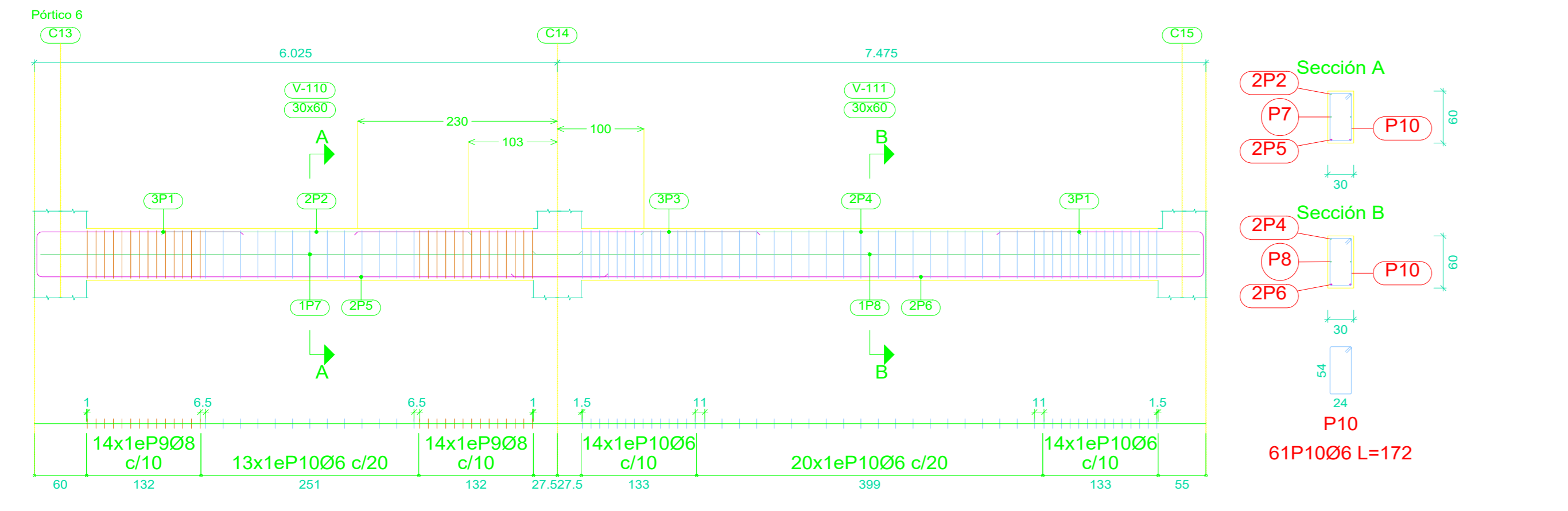
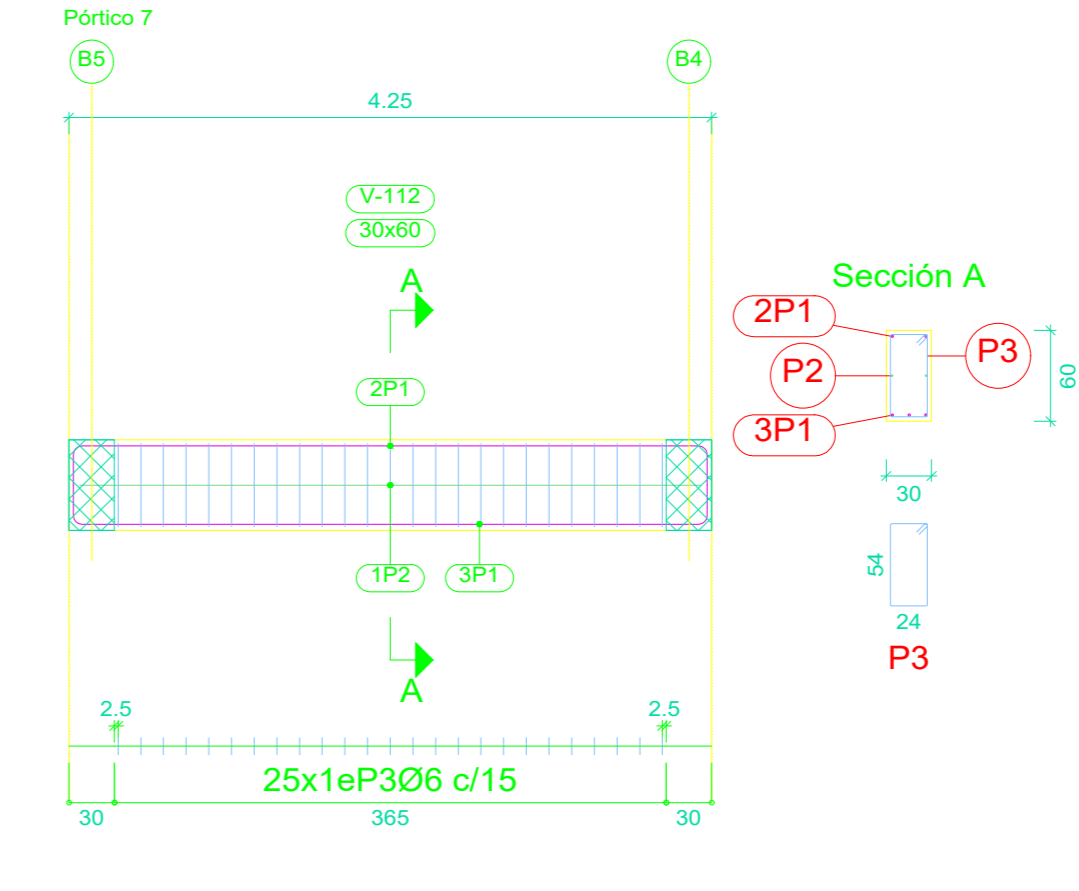
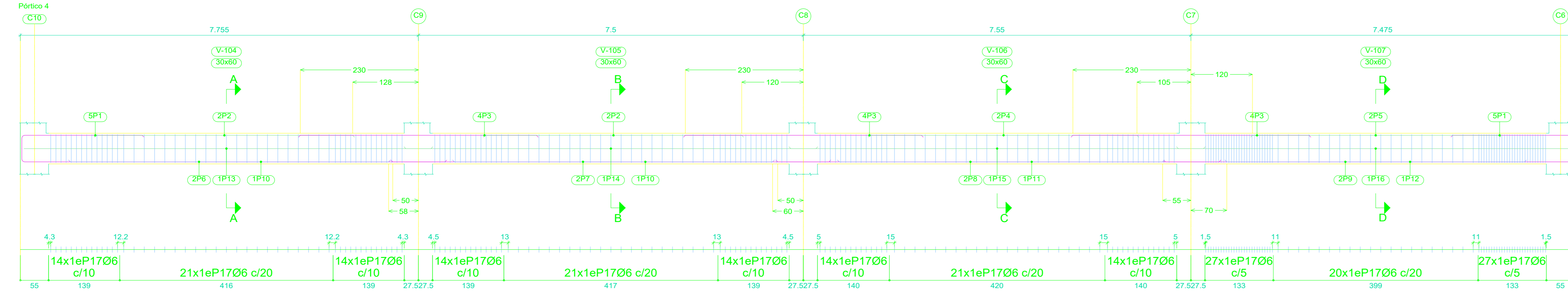
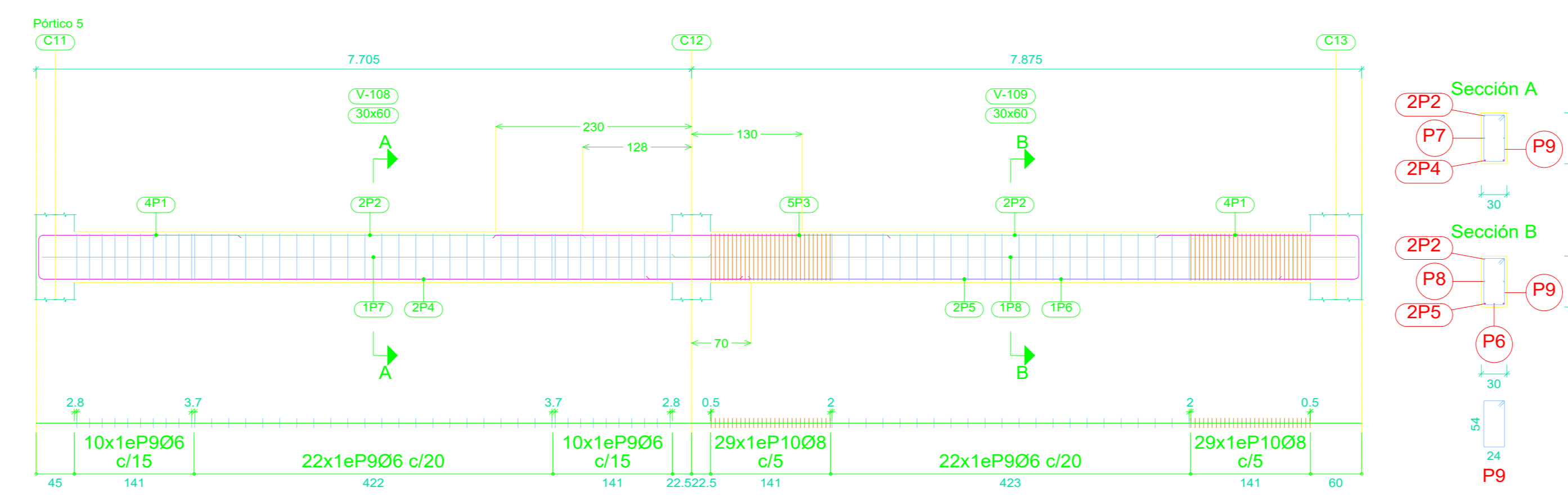
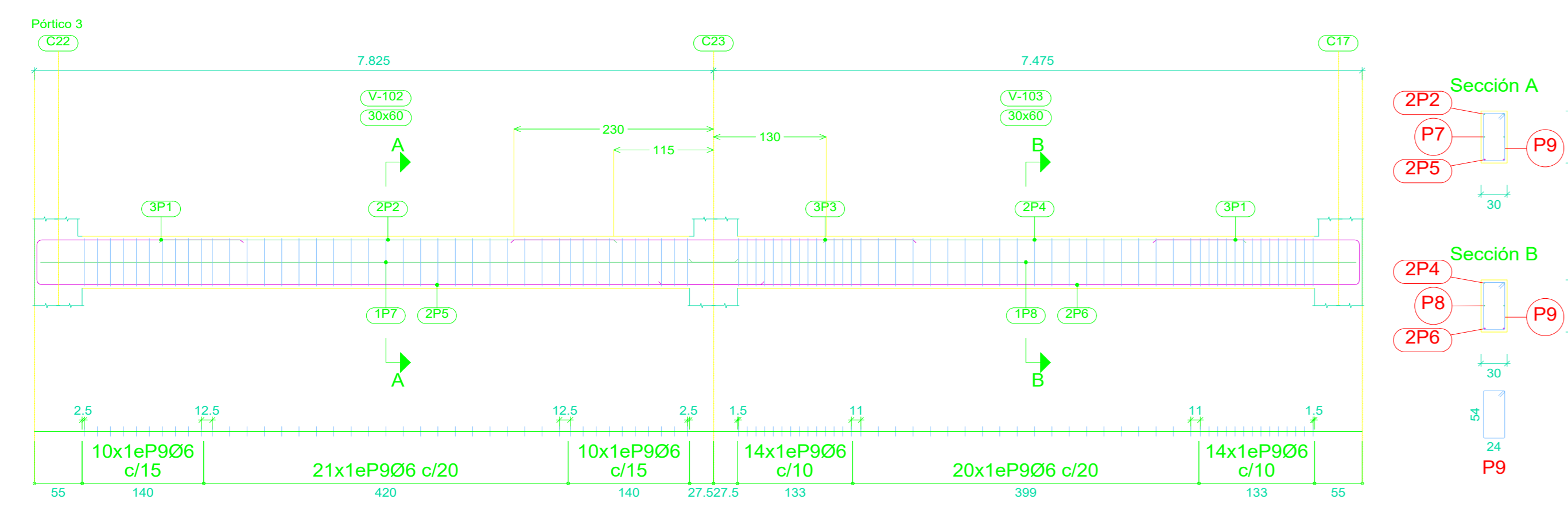
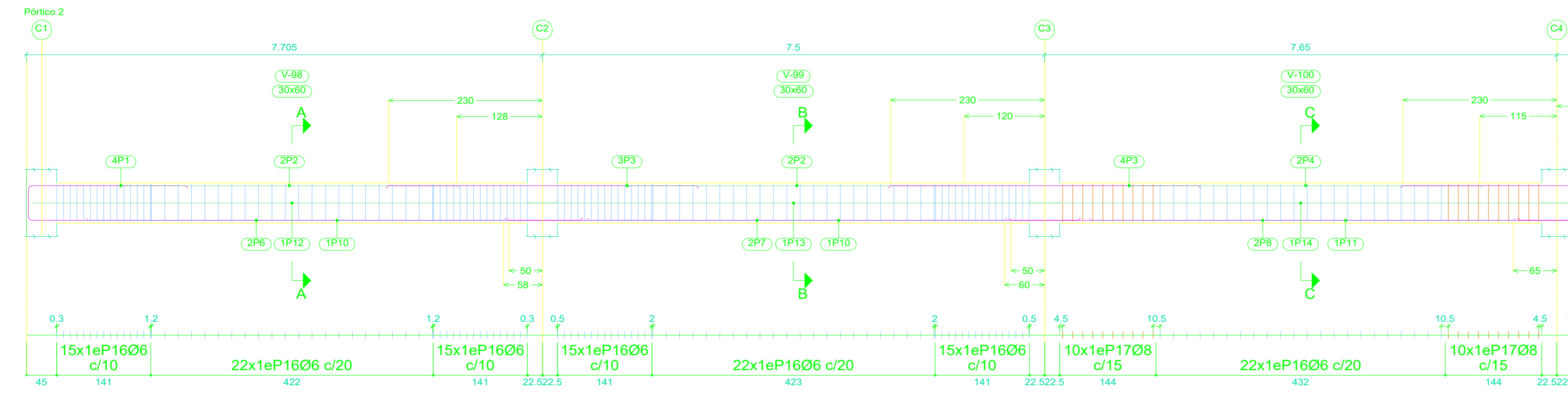


Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 11	1	Ø16	4	234	260	1040	16.4
	2	Ø16	4	460	460	1840	29.0
	3	Ø16	3	424	450	1350	21.3
	4	Ø10	2	520	520	1040	6.4
	5	Ø10	2	500	500	1000	6.2
	6	Ø16	2	834	860	1720	27.1
	7	Ø16	2	994	1020	2040	32.2
	8	Ø10	2	802	818	1636	10.1
	9	Ø10	2	962	978	1956	12.1
	10	Ø6	99	7	172	17028	37.8
Total+10%:							218.5
Pórtico 13	1	Ø12	1	330	350	350	3.1
	2	Ø16	3	234	260	780	12.3
	3	Ø10	2	550	550	1100	6.8
	4	Ø16	2	420	420	840	13.3
	5	Ø16	2	1174	1200	2400	37.9
	6	Ø16	2	854	880	1760	27.8
	7	Ø16	2	994	1020	2040	32.2
	8	Ø12	1	730	750	750	6.7
	9	Ø10	2	832	848	1696	10.5
	10	Ø10	2	962	978	1956	12.1
	11	Ø8	58	10	176	10208	40.3
	12	Ø6	80	7	172	13760	30.5
Total+10%:							256.9
Pórtico 16	1	Ø16	4	629	681	2724	43.0
	2	Ø16	1	324	350	350	5.5
	3	Ø12	2	330	350	700	6.2
	4	Ø10	2	629	661	1322	8.2
	5	Ø6	29	7	172	4988	11.1
Total+10%:							81.4

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 8	1	Ø16	3	234	260	780	12.3
	2	Ø10	2	500	500	1000	6.2
	3	Ø12	1	460	460	460	4.1
	4	Ø10	2	284	300	600	3.7
	5	Ø16	2	460	460	920	14.5
	6	Ø16	2	824	850	1700	26.8
	7	Ø12	2	450	470	940	8.3
	8	Ø12	1	730	750	750	6.7
	9	Ø10	2	794	810	1620	10.0
	10	Ø10	2	429	445	890	5.5
	11	Ø6	58	7	172	9976	22.1
Total+10%:							132.2
Pórtico 12	1	Ø16	3	234	260	780	12.3
	2	Ø10	6	500	500	3000	18.5
	3	Ø16	10	460	460	4600	72.6
	4	Ø16	4	424	450	1800	28.4
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	3	860	860	2580	40.7
	7	Ø16	2	994	1020	2040	32.2
	8	Ø12	1	730	750	750	6.7
	9	Ø12	1	1000	1020	1020	9.1
	10	Ø10	2	774	790	1580	9.7
	11	Ø10	2	802	802	1604	9.9
	12	Ø10	2	962	978	1956	12.1
Total+10%:							428.5
Pórtico 14	1	Ø10	2	414	446	892	5.5
	2	Ø10	1	184	200	200	1.2
	3	Ø12	2	414	454	908	8.1
	4	Ø10	2	414	446	892	5.5
	5	Ø6	16	7	172	2752	6.1
Total+10%:							29.0
Pórtico 15	1	Ø10	3	394	410	1230	7.6
	2	Ø10	3	394	426	1278	7.9
	3	Ø10	2	394	394	788	4.9
Total+10%:							29.5
Pórtico 17	1	Ø16	7	460	460	3220	50.8
	2	Ø10	2	500	500	1000	6.2
	3	Ø16	2	1174	1200	2400	37.9
	4	Ø16	1	324	350	350	5.5
	5	Ø12	2	240	260	520	4.6
	6	Ø16	3	600	600	1800	28.4
	7	Ø10	2	380	380	760	4.7
	8	Ø16	2	474	500	1000	15.8
	9	Ø16	3	850	850	2550	40.2
	10	Ø16	3	860	860	2580	40.7
	11	Ø16	2	994	1020	2040	32.2
	12	Ø10	2	802	802	1604	9.9
	13	Ø10	2	962	978	1956	12.1
	14	Ø10	2	1174	1190	2380	14.7
	15	Ø6	130	7	172	22360	49.6
	16	Ø8	56	24	176	9856	38.9
Total+10%:							431.4
Pórtico 18	1	Ø16	3	460	460	1380	21.8
	2	Ø16	3	1024	1050	3150	49.7
	3	Ø10	4	500	500	2000	12.3
	4	Ø12	2	240	260	520	4.6
	5	Ø10	2	824	840	1680	10.4
	6	Ø16	2	834	860	1720	27.1
	7	Ø16	2	860	860	1720	27.1
	8	Ø10	2	779	795	1590	9.8
	9	Ø10	2	802	802	1604	9.9
	10	Ø10	2	802	818	1636	10.1
	11	Ø6	127	7	172	21844	48.5
Total+10%:							254.4



**SEGUNDA PLANTA**  
 Despiece de vigas  
 Hormigón: 25 Mpas  
 Acero en barras: AH-500  
 Escala pórticos 1:50  
 Escala secciones 1:50  
 Escala huecos 1:50



Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 5	1	Ø16	8	234	260	2080	32.8
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	5	460	460	2300	36.3
	4	Ø16	2	824	850	1700	26.8
	5	Ø16	2	834	860	1720	27.1
	6	Ø12	1	620	620	620	5.5
	7	Ø10	2	787	803	1606	9.9
	8	Ø10	2	804	820	1640	10.1
	9	Ø6	64	7	172	11008	24.4
	10	Ø8	58	10	176	10208	40.3
Total+10%							248.1
Pórtico 7	1	Ø16	5	419	471	2355	37.2
	2	Ø10	2	419	455	910	5.6
	3	Ø6	25	7	172	4300	9.5
Total+10%							57.5

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 6	1	Ø16	6	234	260	1560	24.6
	2	Ø10	2	350	350	700	4.3
	3	Ø16	3	460	460	1380	21.8
	4	Ø10	2	520	500	1000	6.2
	5	Ø16	2	654	680	1360	21.5
	6	Ø16	2	794	820	1640	25.9
	7	Ø10	2	624	640	1280	7.9
	8	Ø10	2	769	785	1570	9.7
	9	Ø8	28	10	176	4928	19.4
	10	Ø6	61	7	172	10492	23.3
Total+10%							181.1
Pórtico 9	1	Ø10	4	759	791	3164	19.5
	2	Ø10	2	759	791	1582	9.8
	3	Ø6	34	7	172	5848	13.0
Total+10%							46.5

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)	
Pórtico 1	1	Ø10	1	460	460	460	2.8	
	2	Ø10	4	1184	1200	4800	29.6	
	3	Ø10	2	804	820	1640	10.1	
	4	Ø10	2	820	820	1640	10.1	
	5	Ø10	2	834	850	1700	10.5	
	6	Ø10	1	600	600	600	3.7	
	7	Ø10	1	650	650	650	4.0	
	8	Ø10	2	789	820	1640	10.1	
	9	Ø10	2	800	800	1600	9.9	
	10	Ø10	2	819	850	1700	10.5	
	11	Ø6	88	14	152	13376	29.7	
Total+10%							144.1	
Pórtico 2	1	Ø16	7	234	260	1820	28.7	
	2	Ø10	4	500	500	2000	12.3	
	3	Ø16	10	460	460	4600	72.6	
	4	Ø10	2	520	520	1040	6.4	
	5	Ø10	2	480	480	960	5.9	
	6	Ø16	2	824	850	1700	26.8	
	7	Ø16	2	850	850	1700	26.8	
	8	Ø16	2	860	860	1720	27.1	
	9	Ø16	2	794	820	1640	25.9	
	10	Ø12	2	620	620	1240	11.0	
	11	Ø12	1	630	630	630	5.6	
	12	Ø10	2	787	803	1606	9.9	
	13	Ø10	2	789	789	1578	9.7	
	14	Ø10	2	804	804	1608	9.9	
	15	Ø10	2	759	775	1550	9.6	
	16	Ø6	165	24	172	28380	63.0	
	17	Ø8	20	10	176	3520	13.9	
Total+10%							401.6	
Pórtico 3	1	Ø16	6	234	260	1560	24.6	
	2	Ø10	2	520	520	1040	6.4	
	3	Ø16	3	460	460	1380	21.8	
	4	Ø10	2	480	480	960	5.9	
	5	Ø16	2	834	860	1720	27.1	
	6	Ø16	2	804	830	1660	26.2	
	7	Ø10	2	804	820	1640	10.1	
	8	Ø10	2	769	785	1570	9.7	
	9	Ø6	89	24	172	15308	34.0	
Total+10%							182.4	
Pórtico 4	1	Ø16	10	234	260	2600	41.0	
	2	Ø10	4	500	500	2000	12.3	
	3	Ø16	12	460	460	5520	87.1	
	4	Ø10	2	520	520	1040	6.4	
	5	Ø10	2	480	480	960	5.9	
	6	Ø16	2	824	850	1700	26.8	
	7	Ø16	2	850	850	1700	26.8	
	8	Ø16	2	860	860	1720	27.1	
	9	Ø16	2	794	820	1640	25.9	
	10	Ø12	1	630	630	630	5.6	
Pórtico 10	1	Ø10	4	419	451	1804	11.1	
	2	Ø10	2	419	451	902	5.6	
	3	Ø6	17	7	152	2584	5.7	
	Total+10%							24.6



UNIVERSIDAD:  
 JUAN MISAEL SARACHO



UNIVERSITARIO:  
 MARCELO CRUZ CAIHUARA

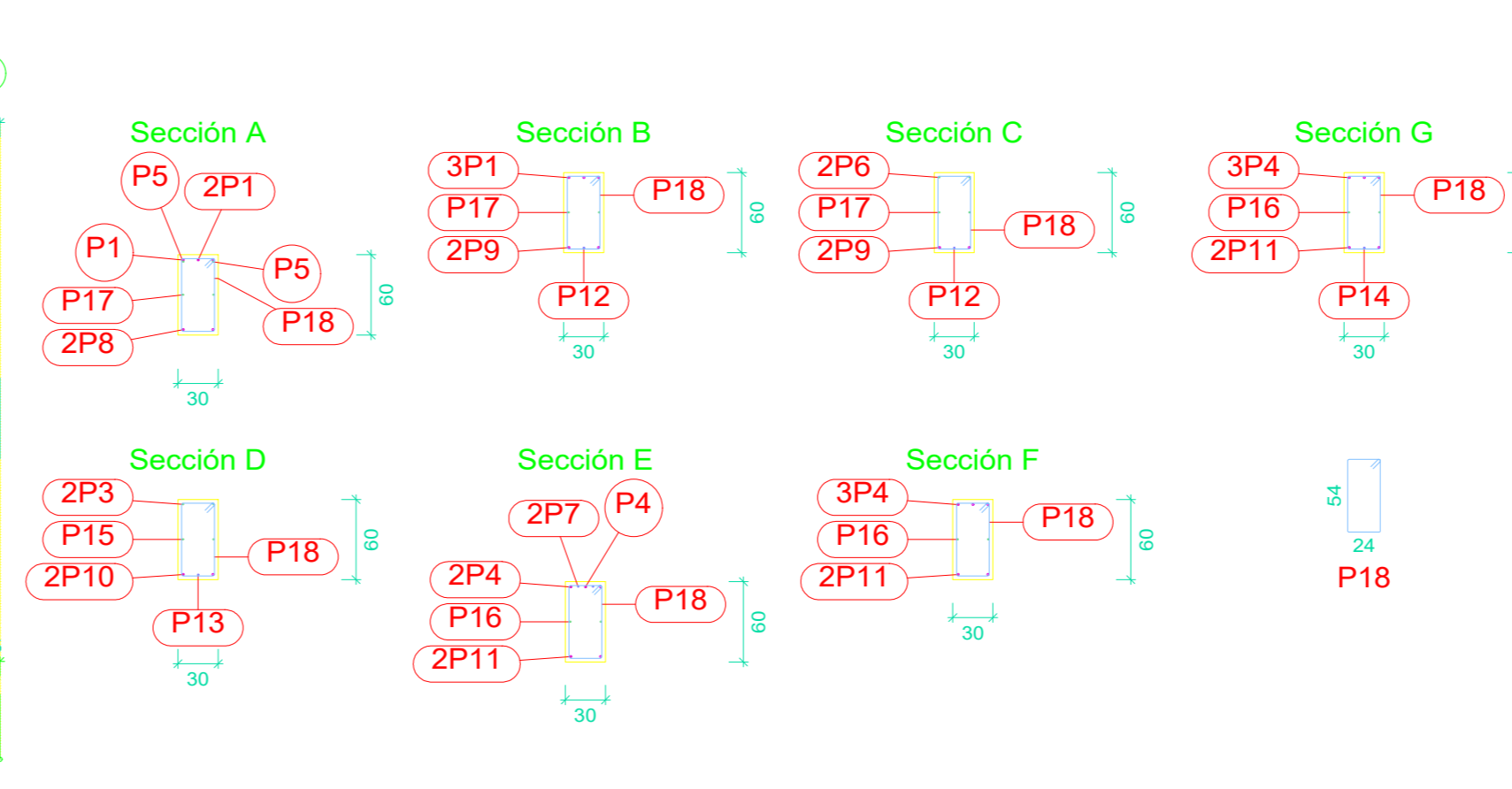
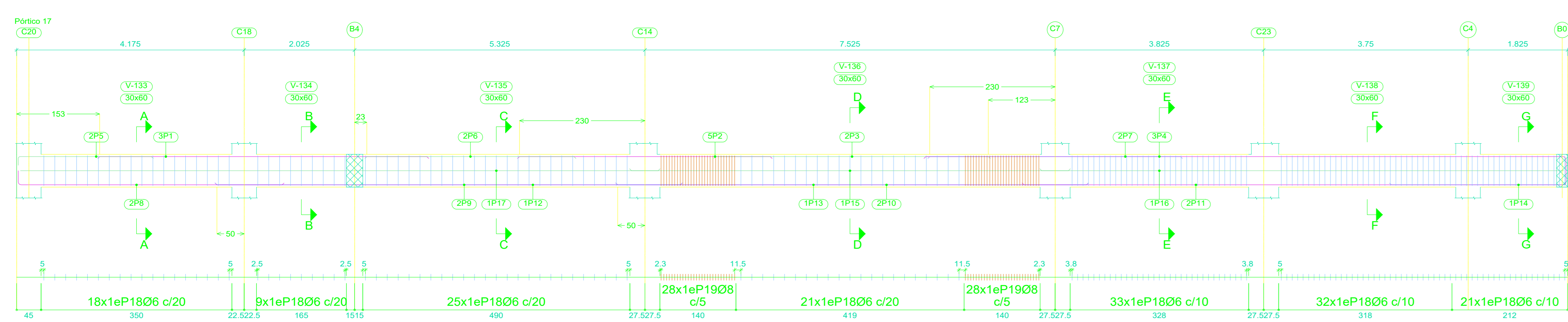
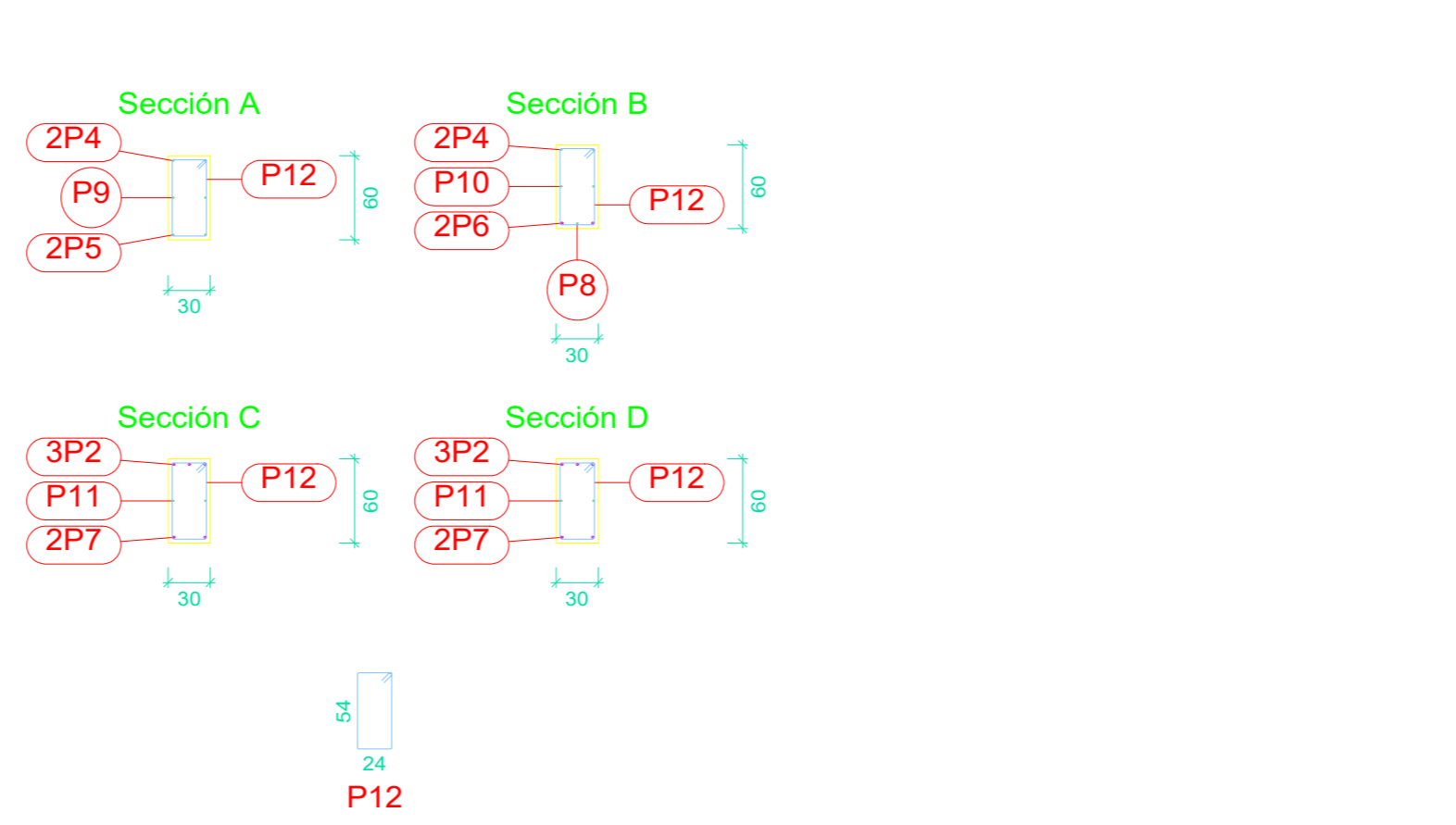
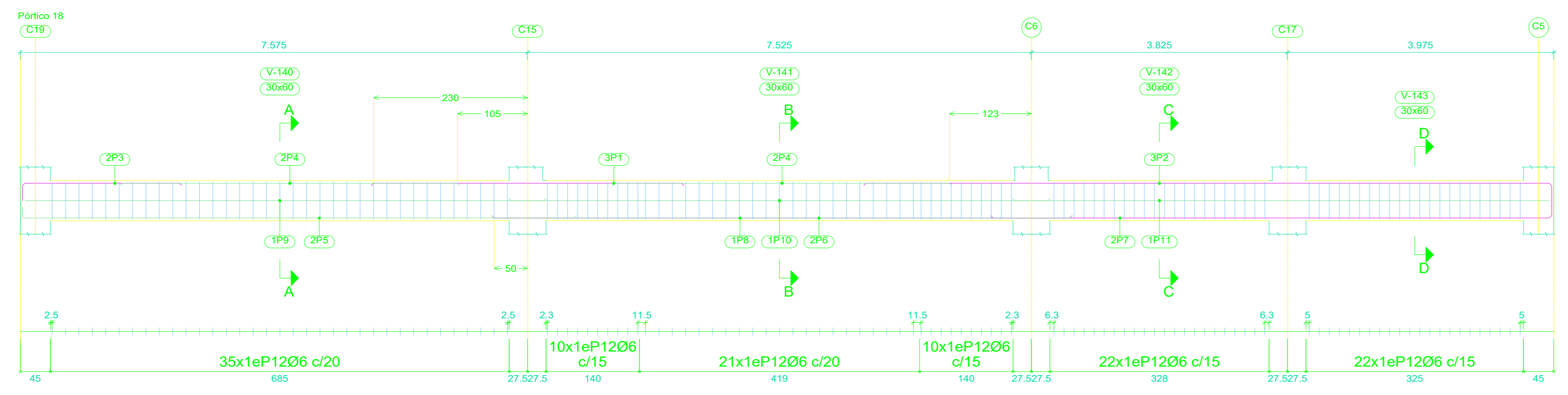
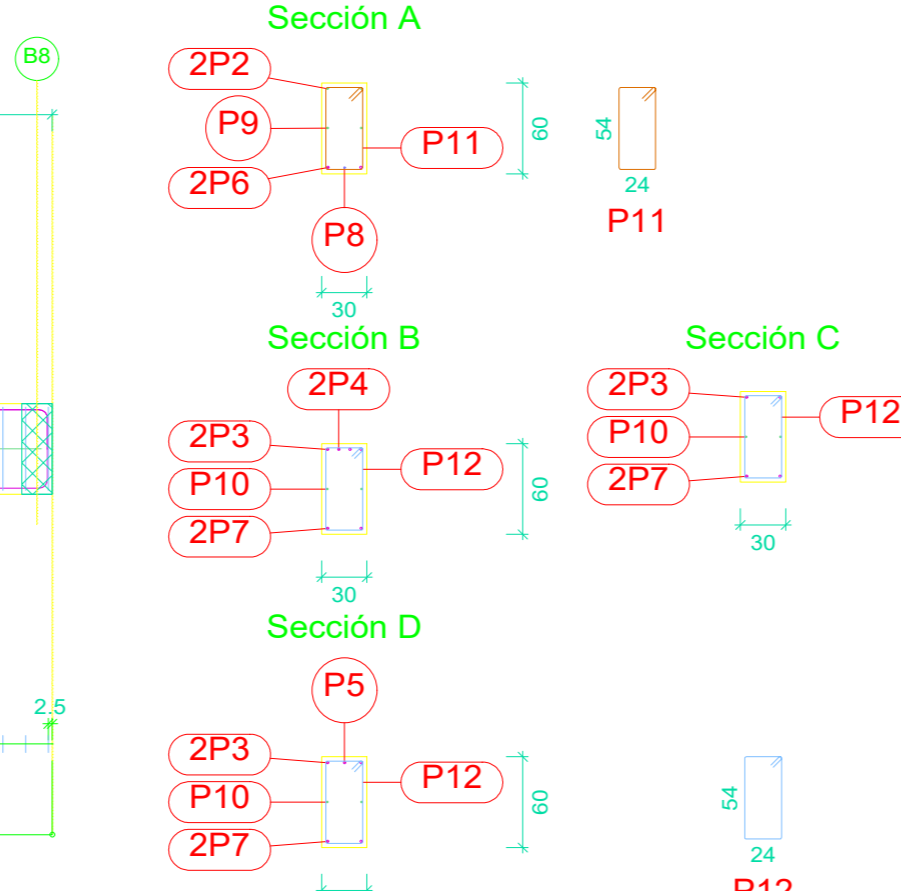
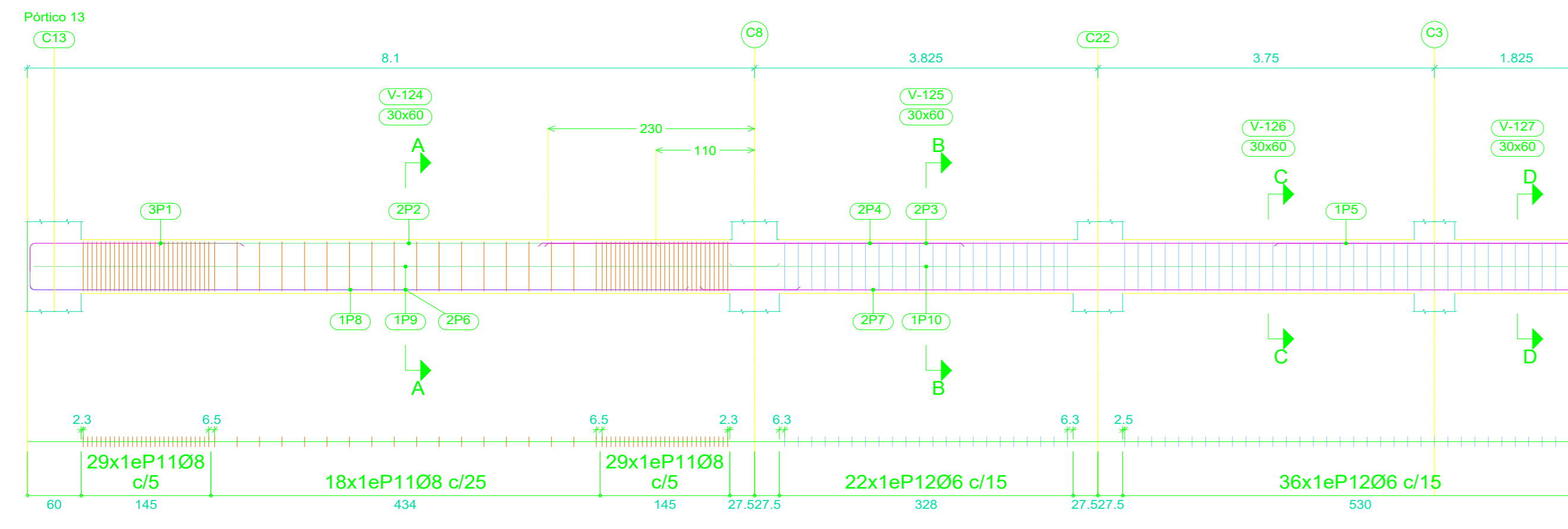
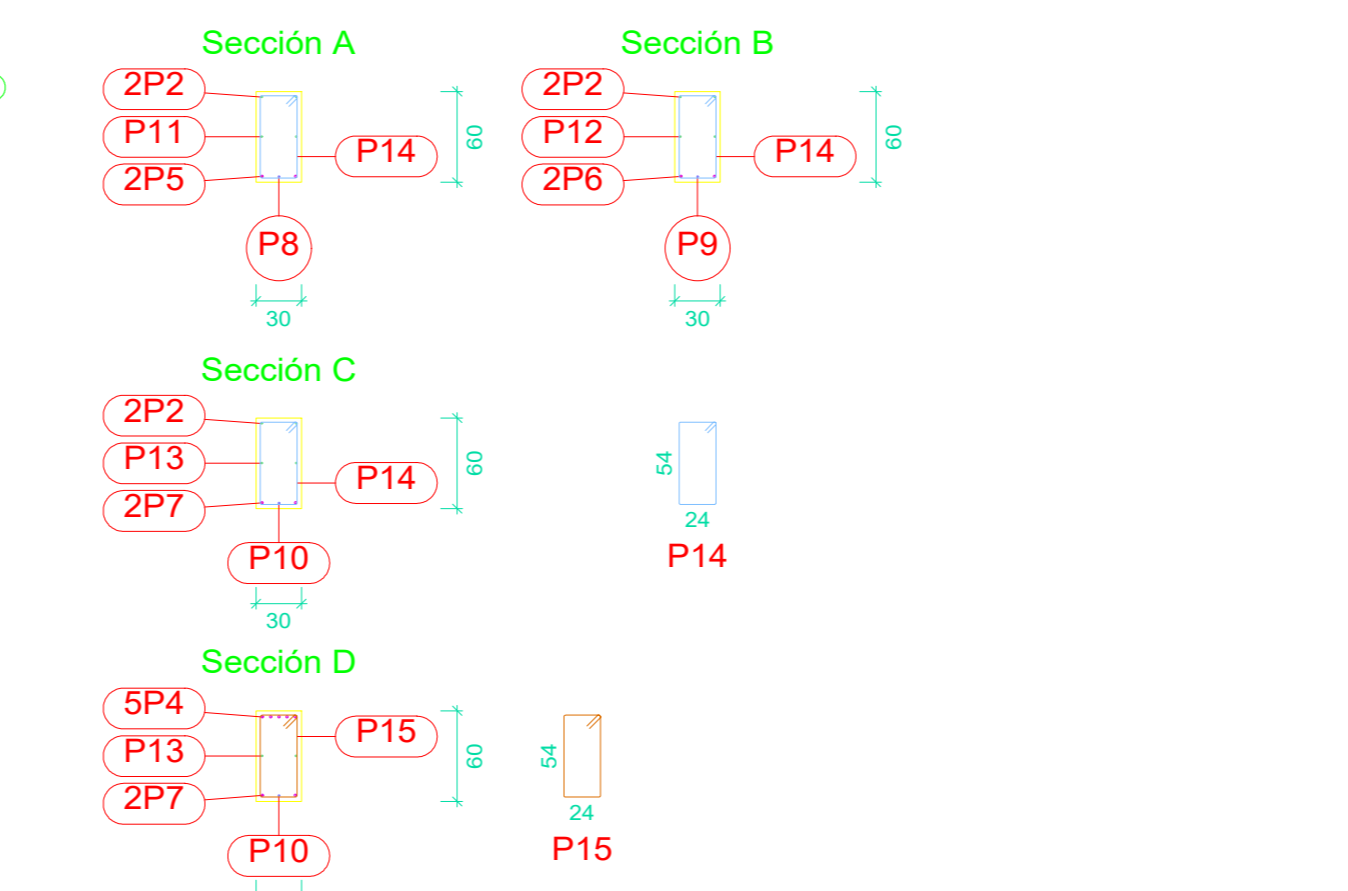
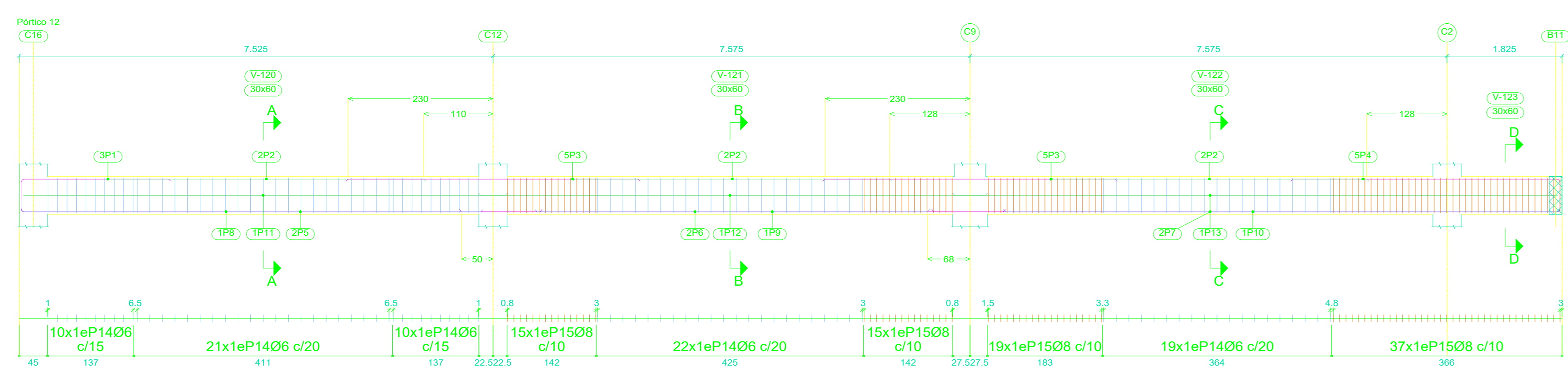
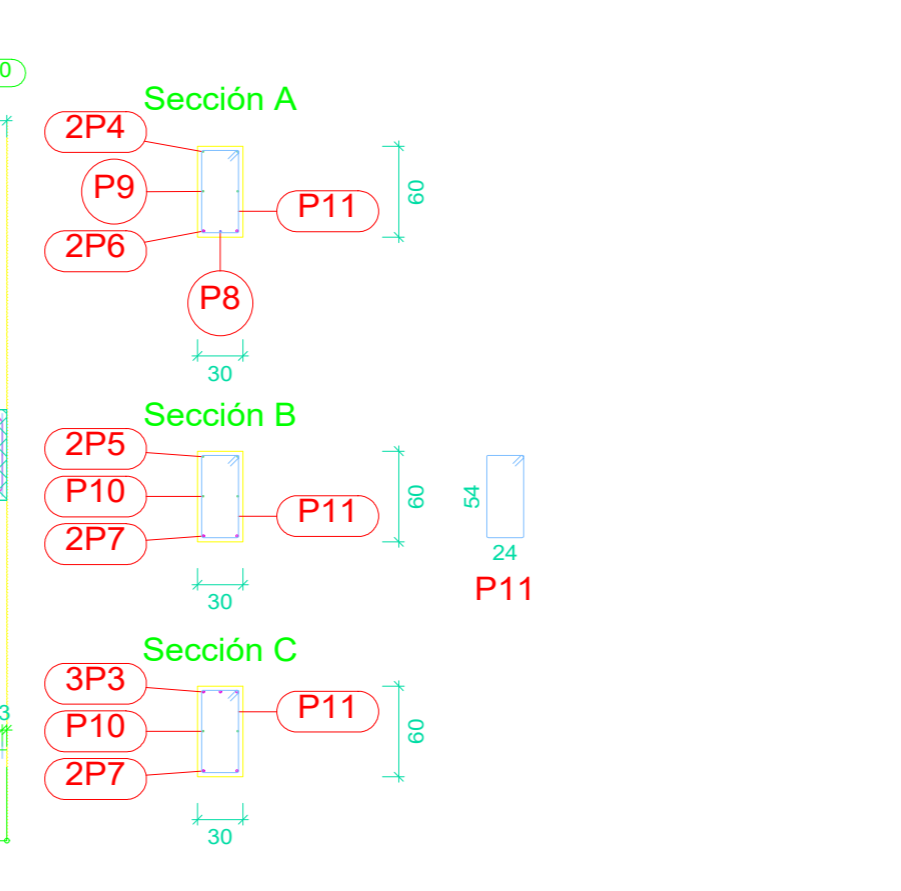
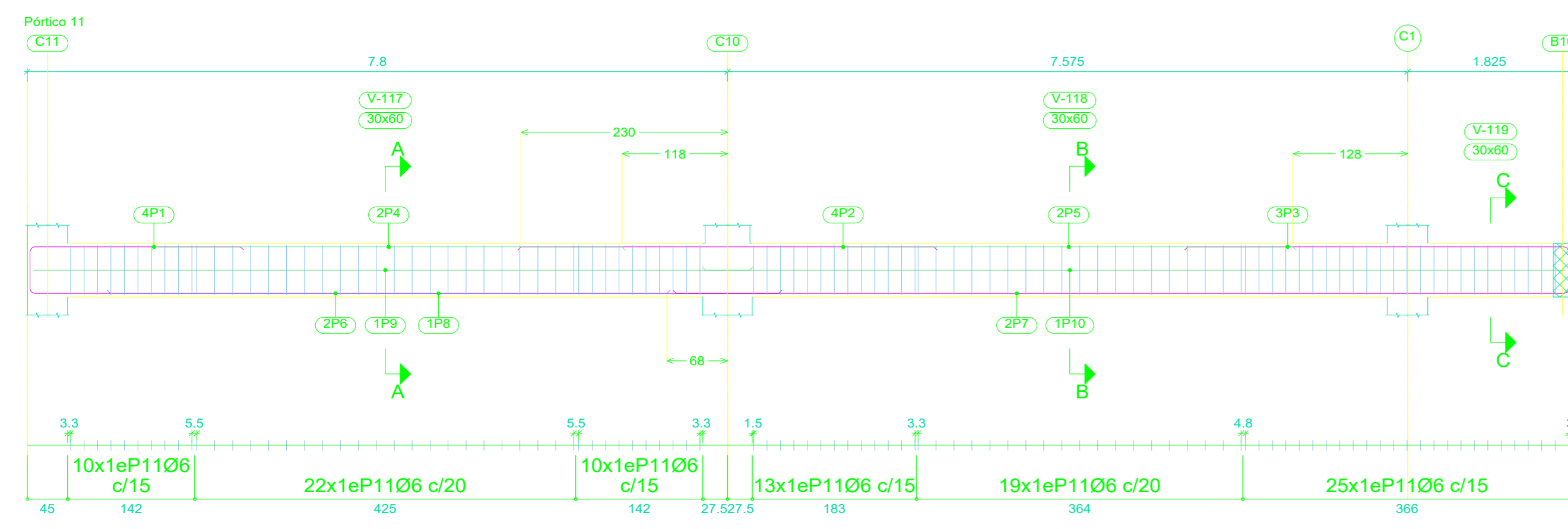
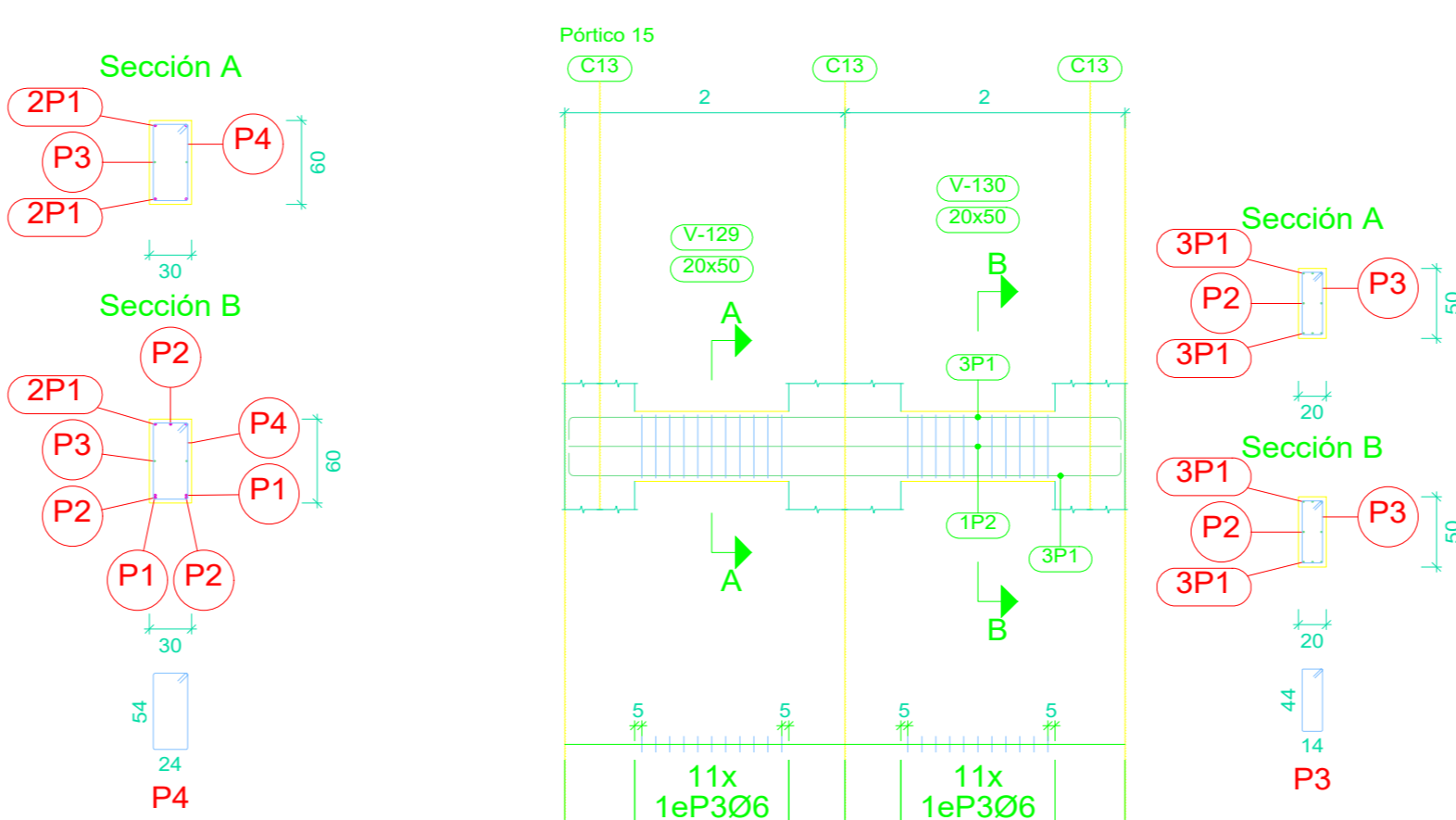
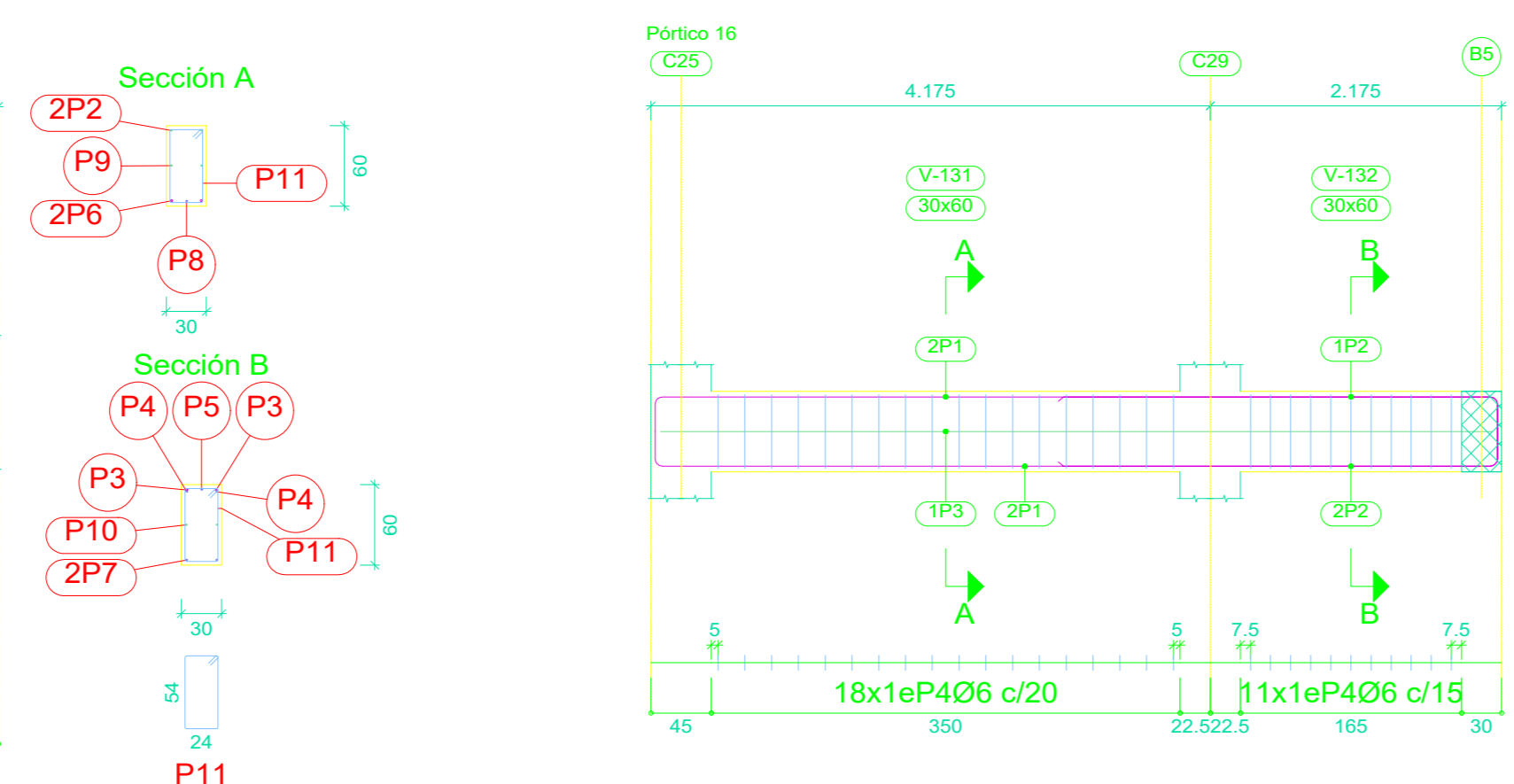
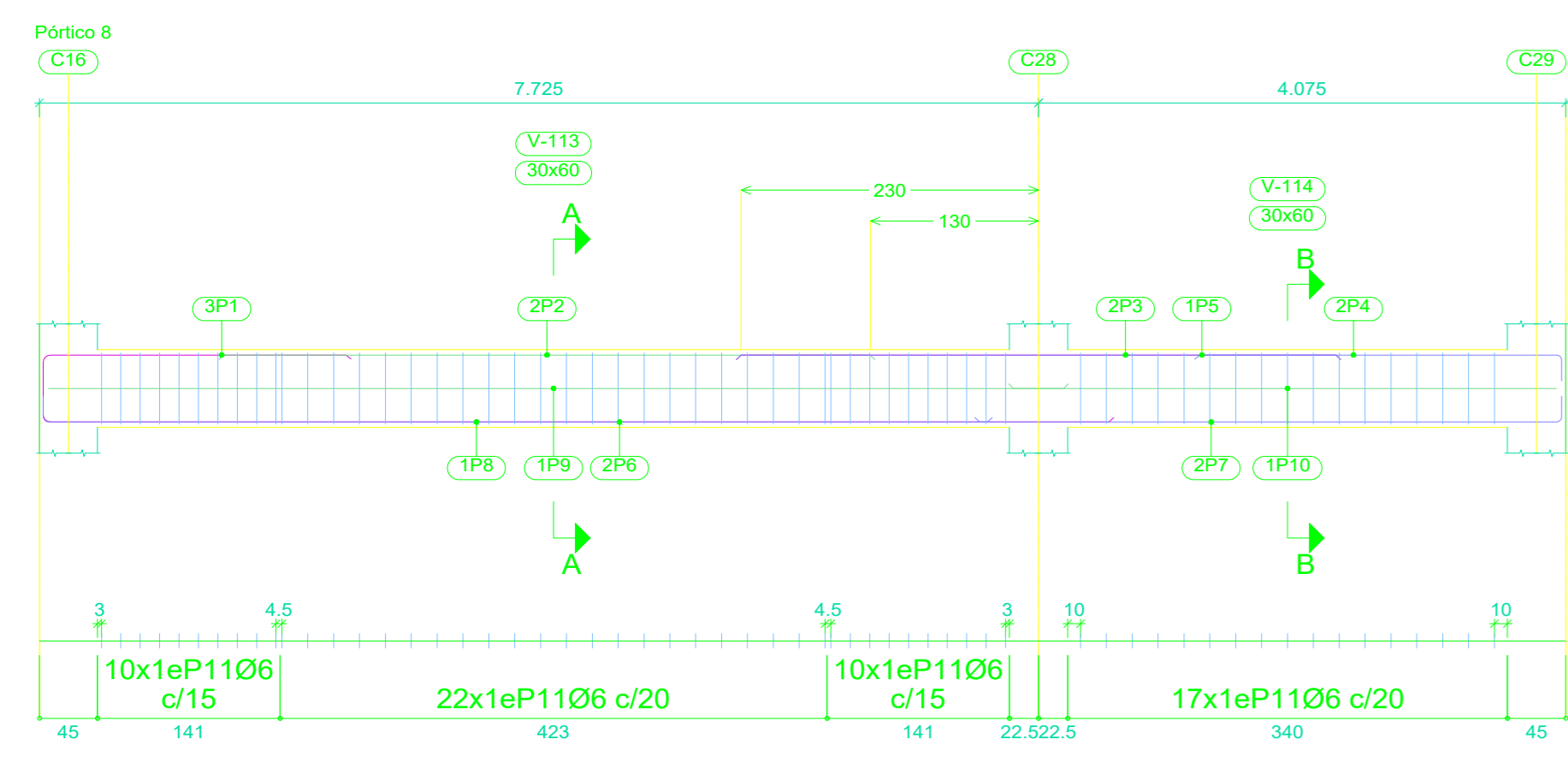
PROYECTO:  
 HOSPITAL DE SEGUNDO NIVEL YACUIBA

CARACTER:  
 DESPIECE DE VIGAS MÓDULO 3

FECHA:  
 Marzo - 2023

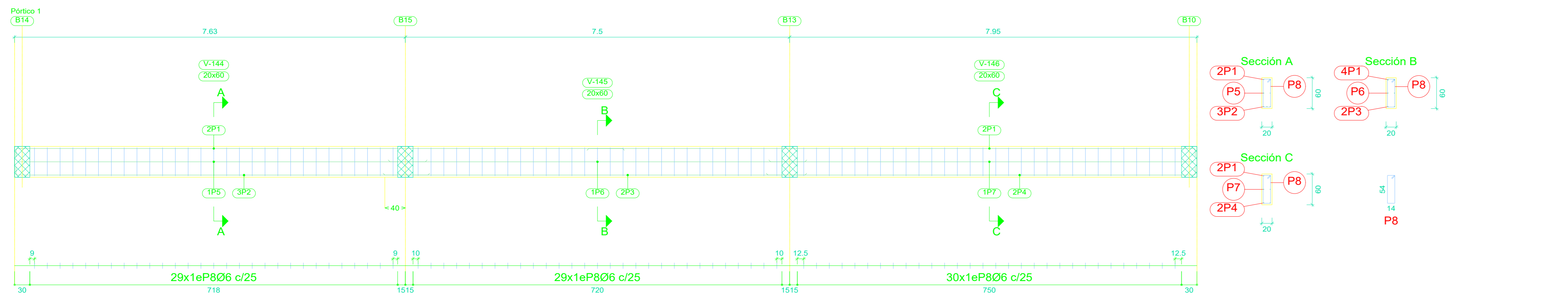
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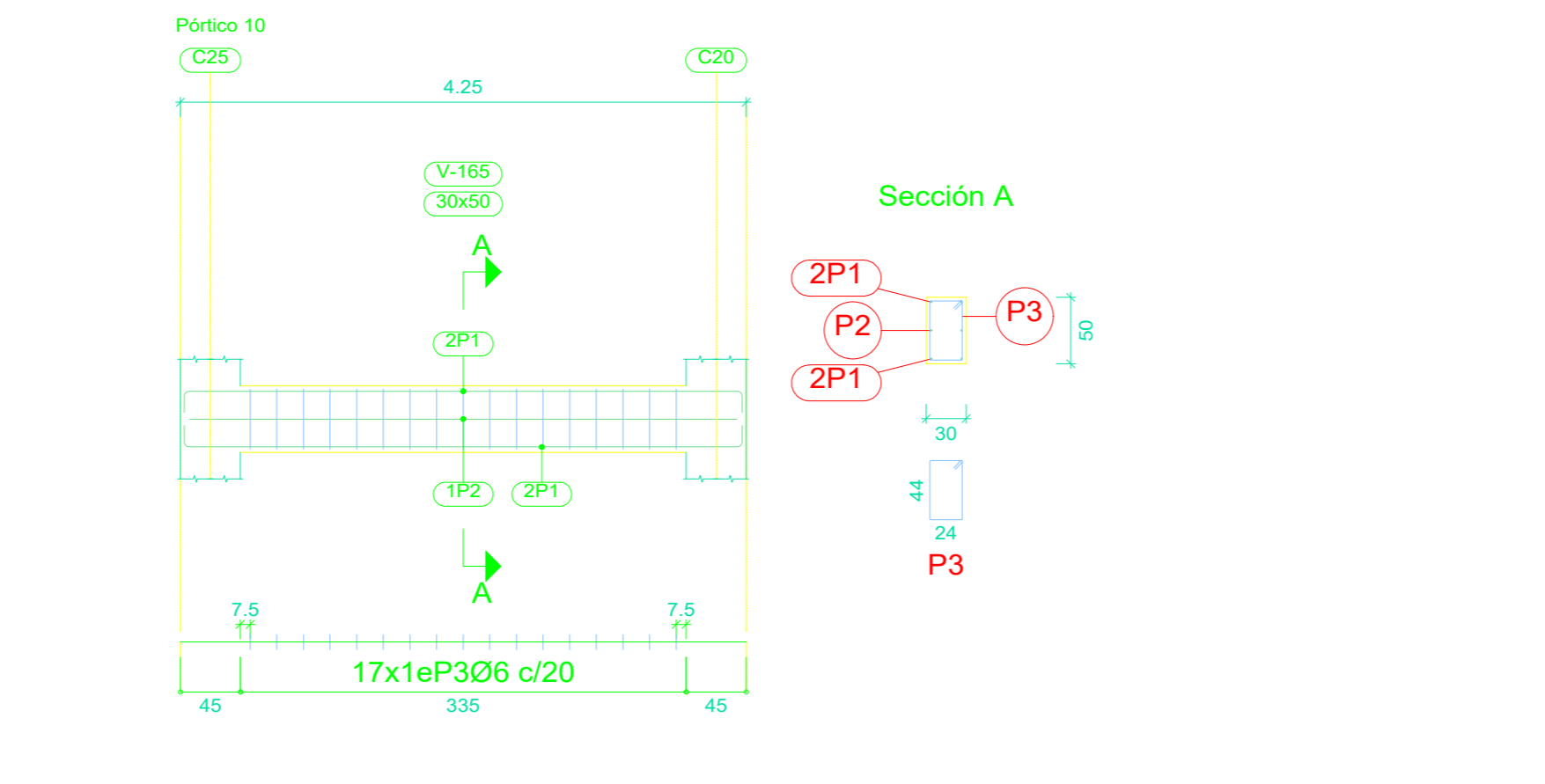
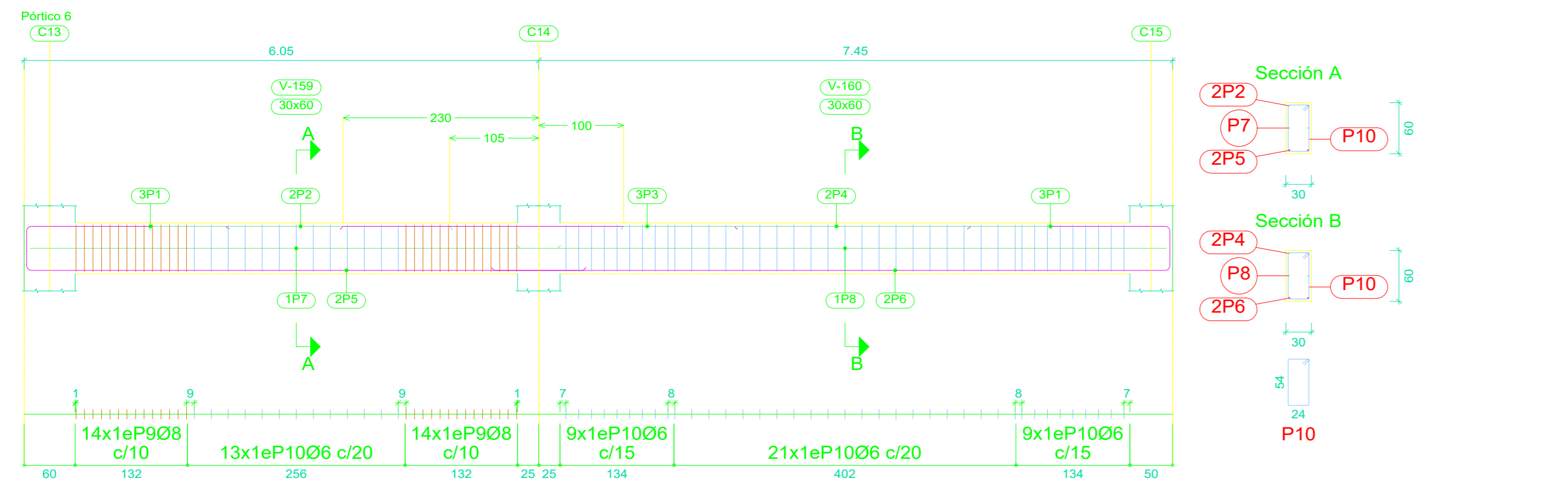
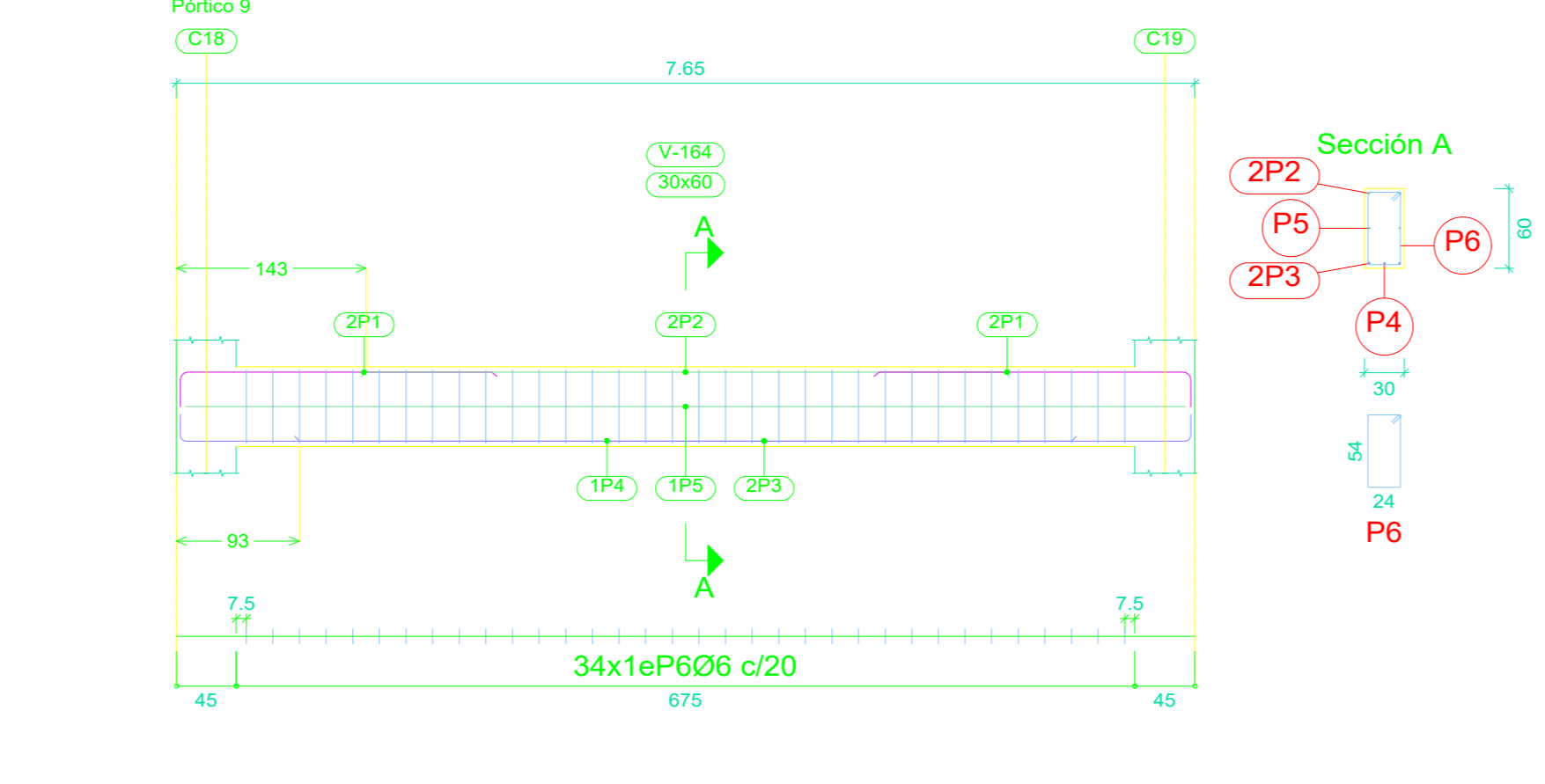
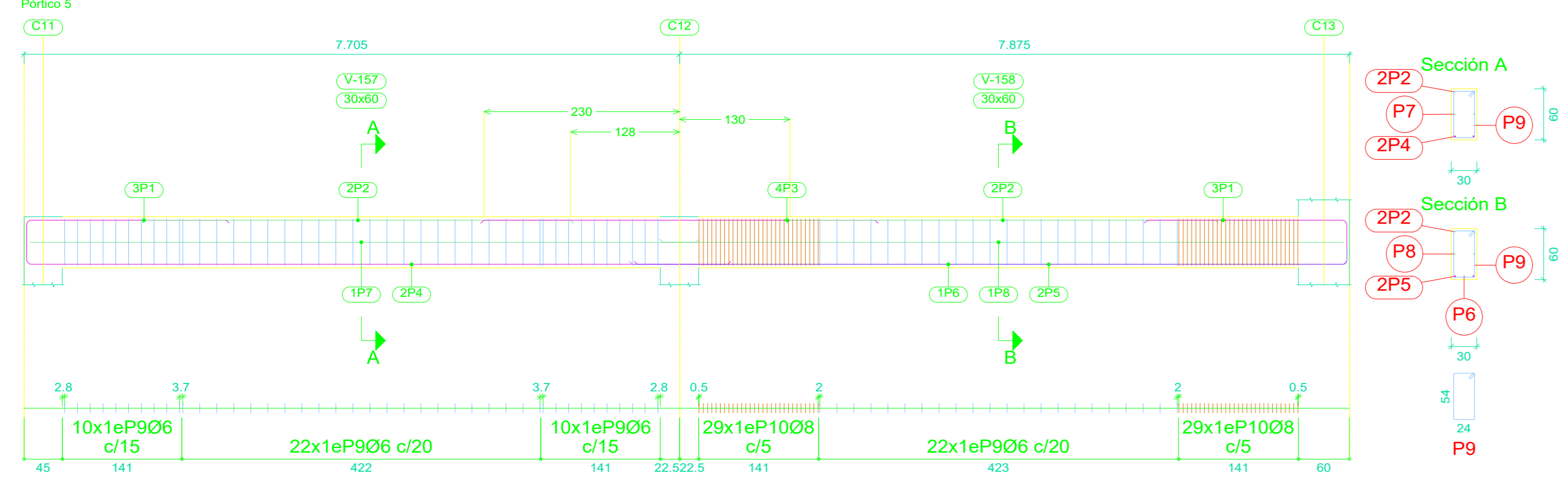
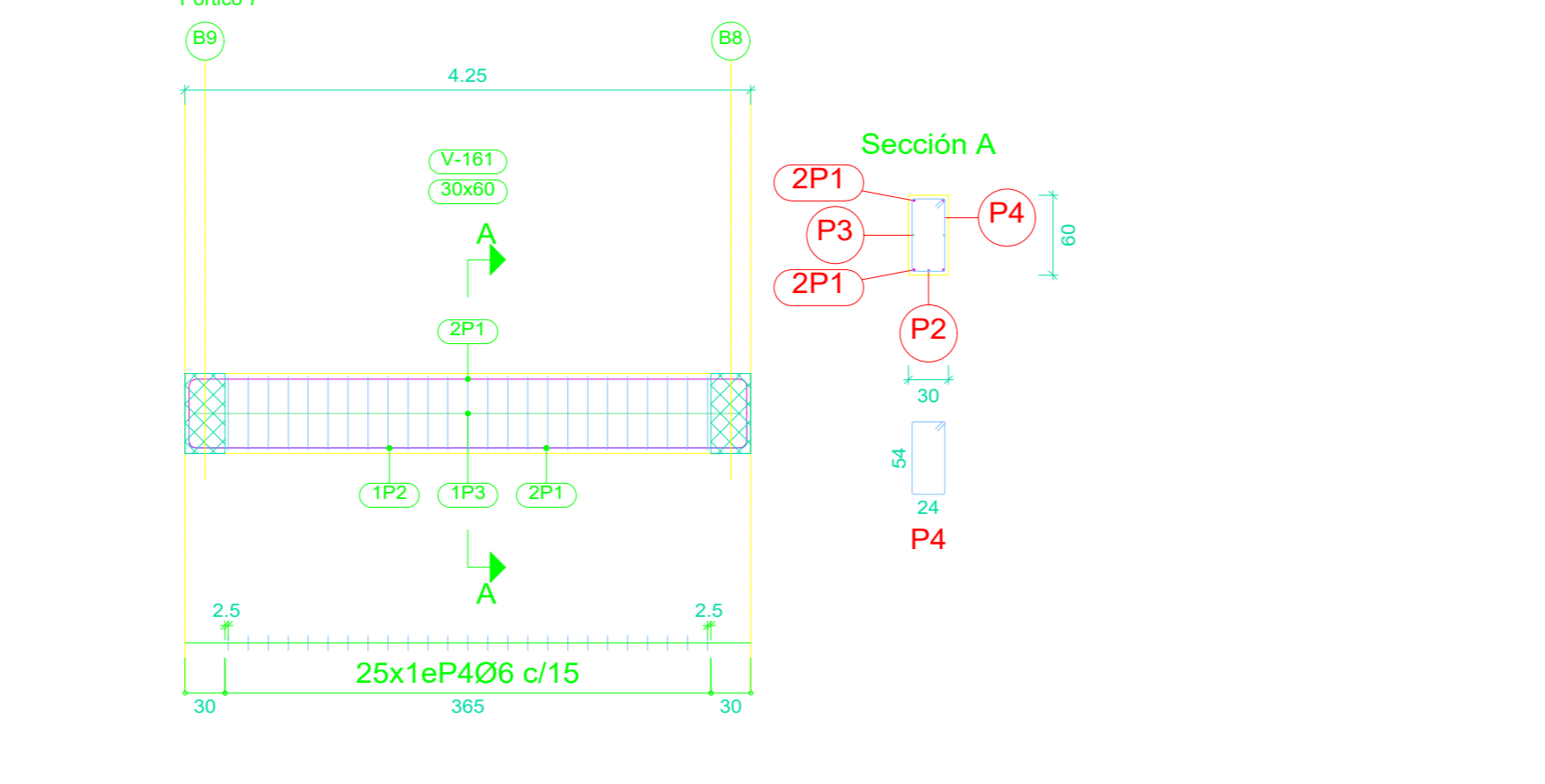
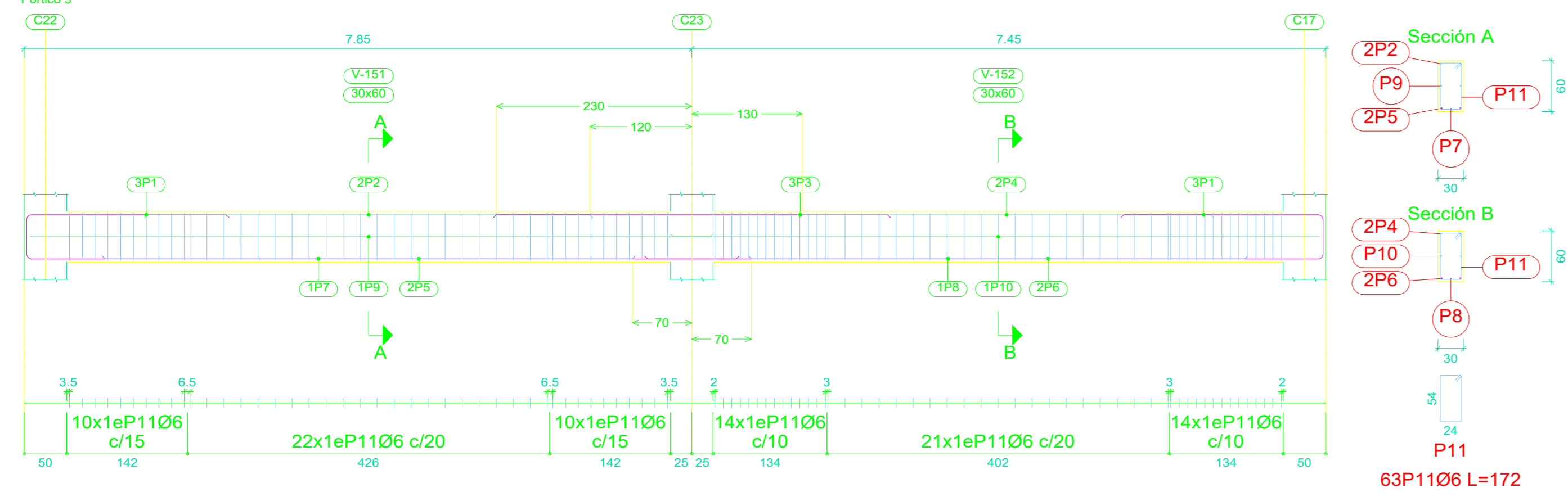
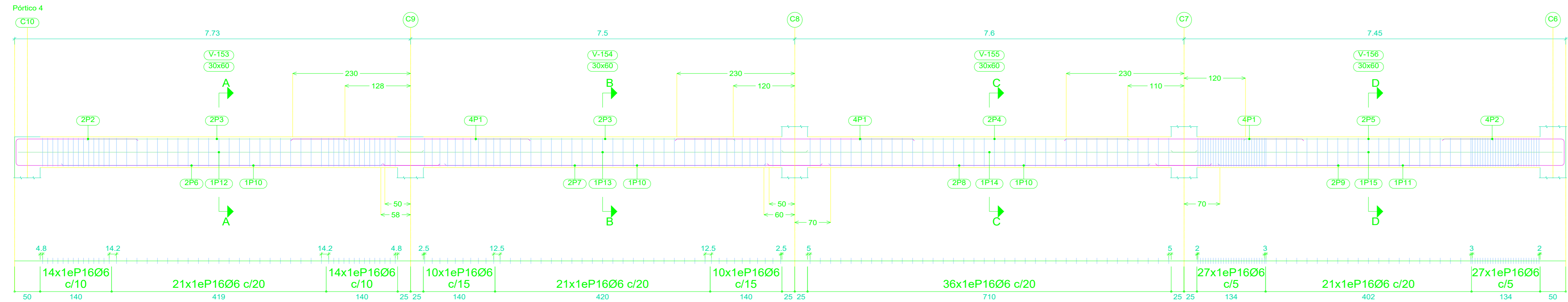
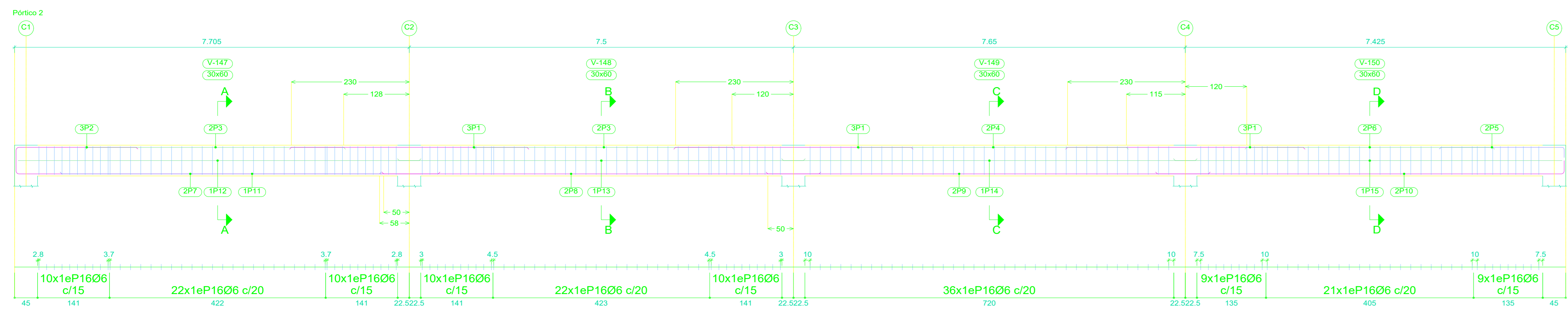


Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 8	1	Ø16	3	234	260	780	12.3
	2	Ø10	2	500	500	1000	6.2
	3	Ø16	2	460	460	920	14.5
	4	Ø12	2	280	300	600	5.3
	5	Ø12	1	460	460	460	4.1
	6	Ø16	2	824	850	1700	26.8
	7	Ø12	2	450	470	940	8.3
	8	Ø12	1	730	750	750	6.7
	9	Ø10	2	789	805	1610	9.9
	10	Ø10	2	424	440	880	5.4
	11	Ø6	59	24	172	10148	22.5
Total+10%:							134.2
Pórtico 12	1	Ø16	3	234	260	780	12.3
	2	Ø10	6	500	500	3000	18.5
	3	Ø16	10	460	460	4600	72.6
	4	Ø16	5	424	450	2250	35.5
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	860	860	1720	27.1
	7	Ø16	2	994	1020	2040	32.2
	8	Ø12	1	730	750	750	6.7
	9	Ø12	1	620	620	620	5.5
	10	Ø12	1	880	900	900	8.0
	11	Ø10	2	769	785	1570	9.7
	12	Ø10	2	802	802	1604	9.9
	13	Ø10	2	962	978	1956	12.1
	14	Ø6	82	24	172	14104	31.3
	15	Ø8	86	24	176	15136	59.7
Total+10%:							404.7
Pórtico 15	1	Ø10	6	394	426	2556	15.8
	2	Ø10	2	394	394	788	4.9
	3	Ø6	22	14	132	2904	6.4
Total+10%:							29.8
Pórtico 18	1	Ø16	3	460	460	1380	21.8
	2	Ø16	3	1024	1050	3150	49.7
	3	Ø16	2	234	260	520	8.2
	4	Ø10	4	500	500	2000	12.3
	5	Ø10	2	824	840	1680	10.4
	6	Ø16	2	860	860	1720	27.1
	7	Ø16	2	834	860	1720	27.1
	8	Ø10	1	860	860	860	5.3
	9	Ø10	2	779	795	1590	9.8
	10	Ø10	2	802	802	1604	9.9
	11	Ø10	2	802	818	1636	10.1
	12	Ø6	120	24	172	20640	45.8
Total+10%:							261.3
Pórtico 16	1	Ø16	4	629	661	2724	43.0
	2	Ø16	3	324	350	1050	16.6
	3	Ø10	2	629	661	1322	8.2
	4	Ø6	29	24	172	4988	11.1
Total+10%:							86.8

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 11	1	Ø16	4	234	260	1040	16.4
	2	Ø16	4	460	460	1840	29.0
	3	Ø16	3	424	450	1350	21.3
	4	Ø10	2	520	520	1040	6.4
	5	Ø10	2	500	500	1000	6.2
	6	Ø16	2	834	860	1720	27.1
	7	Ø16	2	994	1020	2040	32.2
	8	Ø12	1	620	620	620	5.5
	9	Ø10	2	802	818	1636	10.1
	10	Ø10	2	962	978	1956	12.1
	11	Ø6	99	24	172	17028	37.8
Total+10%:							224.5
Pórtico 13	1	Ø16	3	234	260	780	12.3
	2	Ø10	2	550	550	1100	6.8
	3	Ø16	2	1174	1200	2400	37.9
	4	Ø16	2	460	460	920	14.5
	5	Ø16	1	354	380	380	6.0
	6	Ø16	2	854	880	1760	27.8
	7	Ø16	2	994	1020	2040	32.2
	8	Ø12	1	730	750	750	6.7
	9	Ø10	2	832	848	1696	10.5
	10	Ø10	2	962	978	1956	12.1
	11	Ø8	76	24	176	13376	52.8
	12	Ø6	58	24	172	9976	22.1
Total+10%:							265.9
Pórtico 14	1	Ø10	2	414	446	892	5.5
	2	Ø10	1	184	200	200	1.2
	3	Ø12	2	414	454	908	8.1
	4	Ø10	2	414	446	892	5.5
	5	Ø6	16	24	172	2752	6.1
Total+10%:							29.0
Pórtico 17	1	Ø16	3	600	600	1800	28.4
	2	Ø16	5	460	460	2300	36.3
	3	Ø10	2	500	500	1000	6.2
	4	Ø16	3	1174	1200	3600	56.8
	5	Ø10	2	244	260	520	3.2
	6	Ø10	2	380	380	760	4.7
	7	Ø12	2	460	460	920	8.2
	8	Ø16	2	484	510	1020	16.1
	9	Ø16	2	850	850	1700	26.8
	10	Ø16	2	860	860	1720	27.1
	11	Ø16	2	994	1020	2040	32.2
	12	Ø12	1	850	850	850	7.5
	13	Ø12	1	860	860	860	7.6
	14	Ø12	1	320	340	340	3.0
	15	Ø10	2	802	802	1604	9.9
	16	Ø10	2	962	978	1956	12.1
	17	Ø10	2	1174	1190	2380	14.7
	18	Ø6	159	24	172	27348	60.7
	19	Ø8	56	24	176	9856	38.9
Total+10%:							440.4

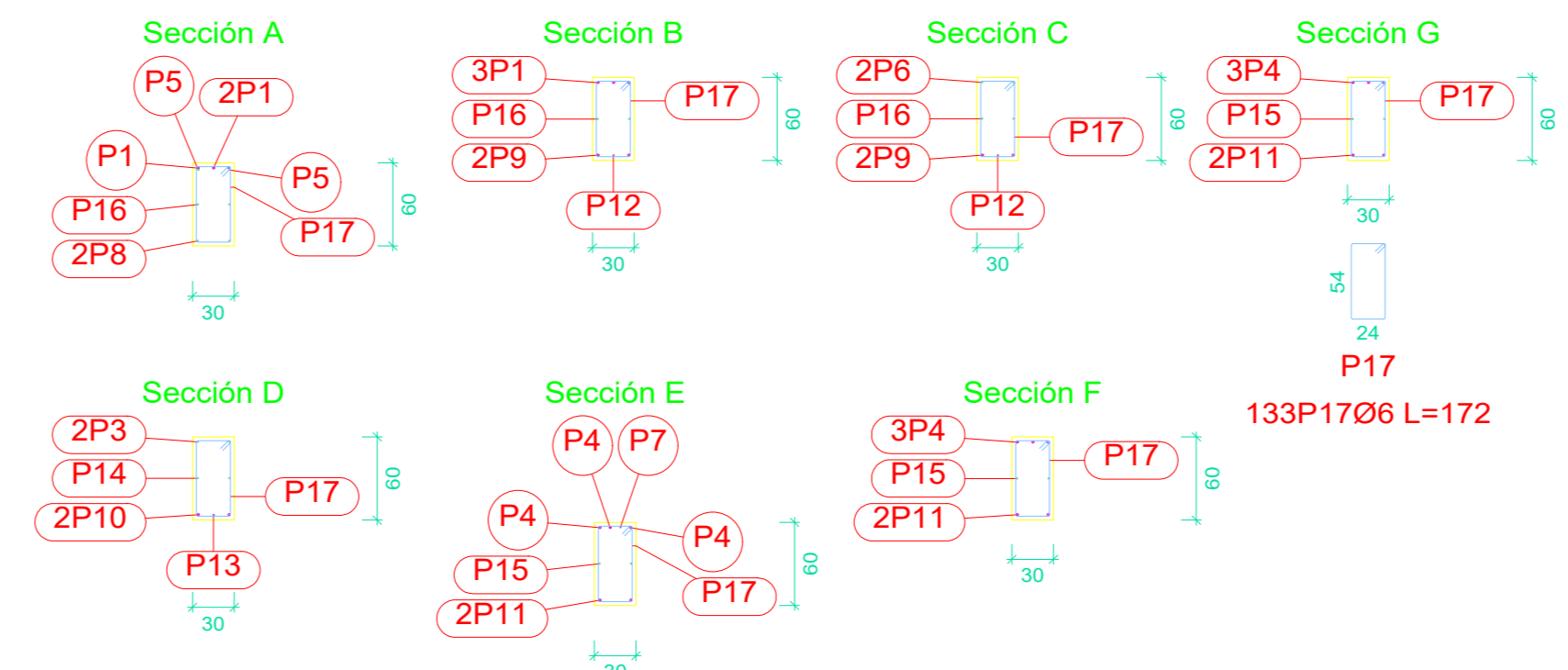
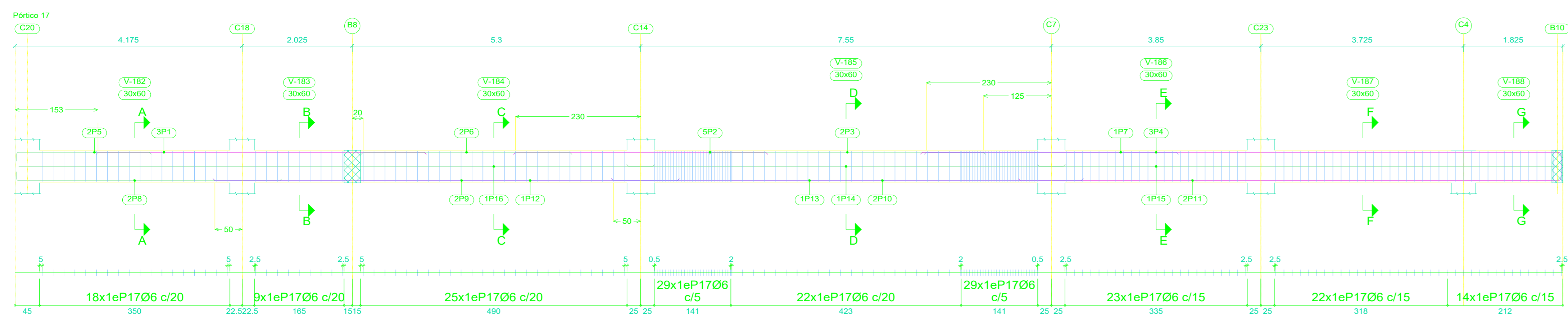
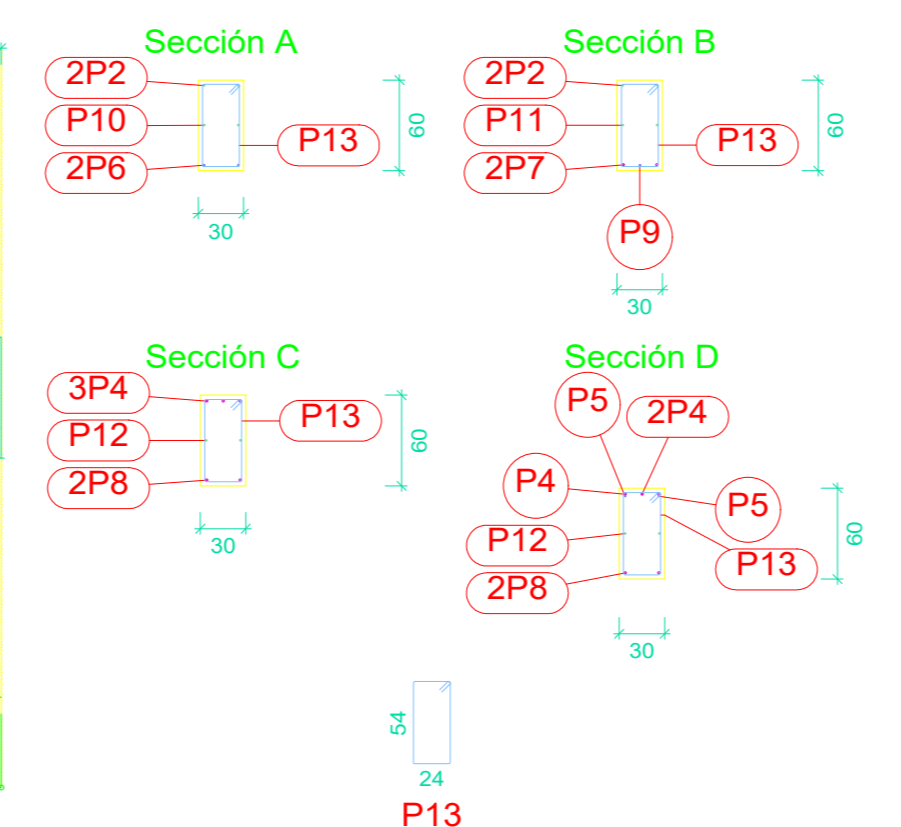
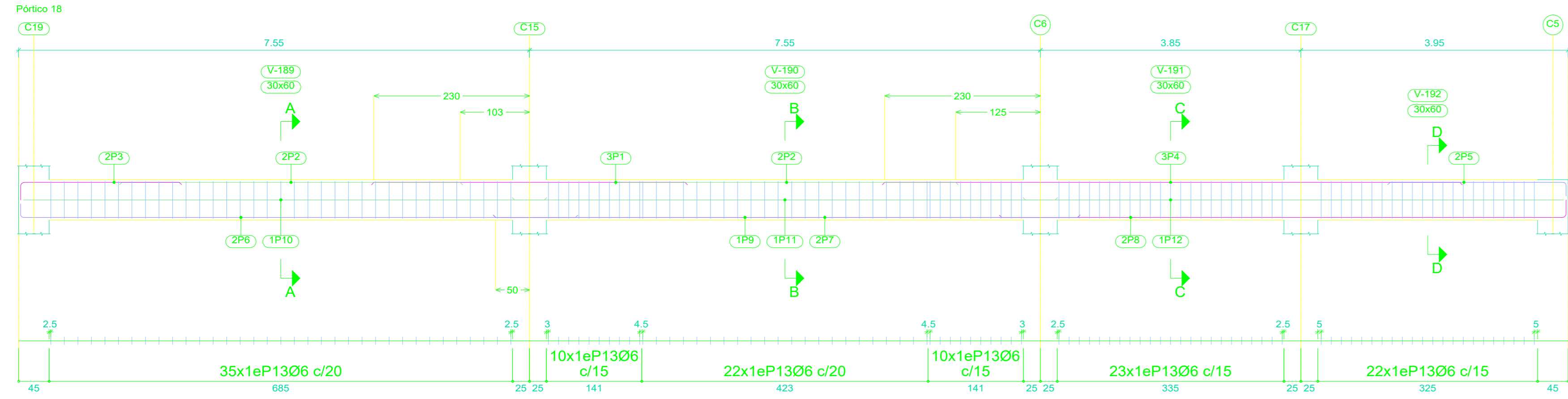
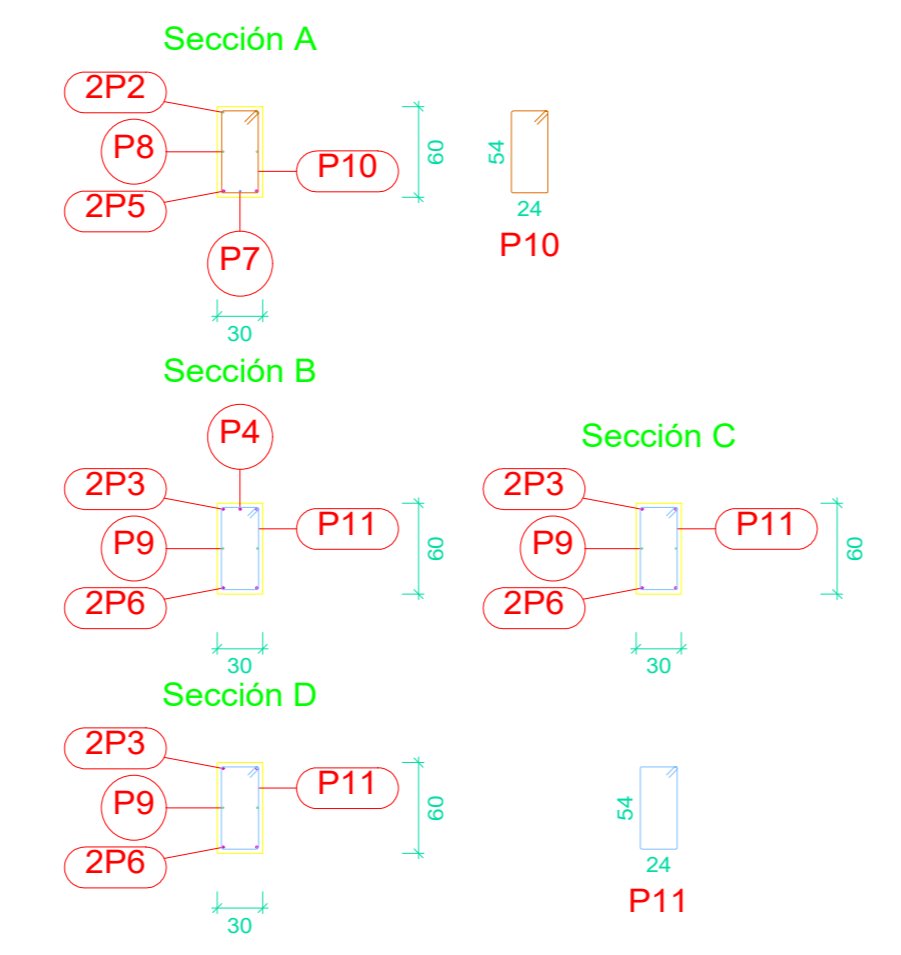
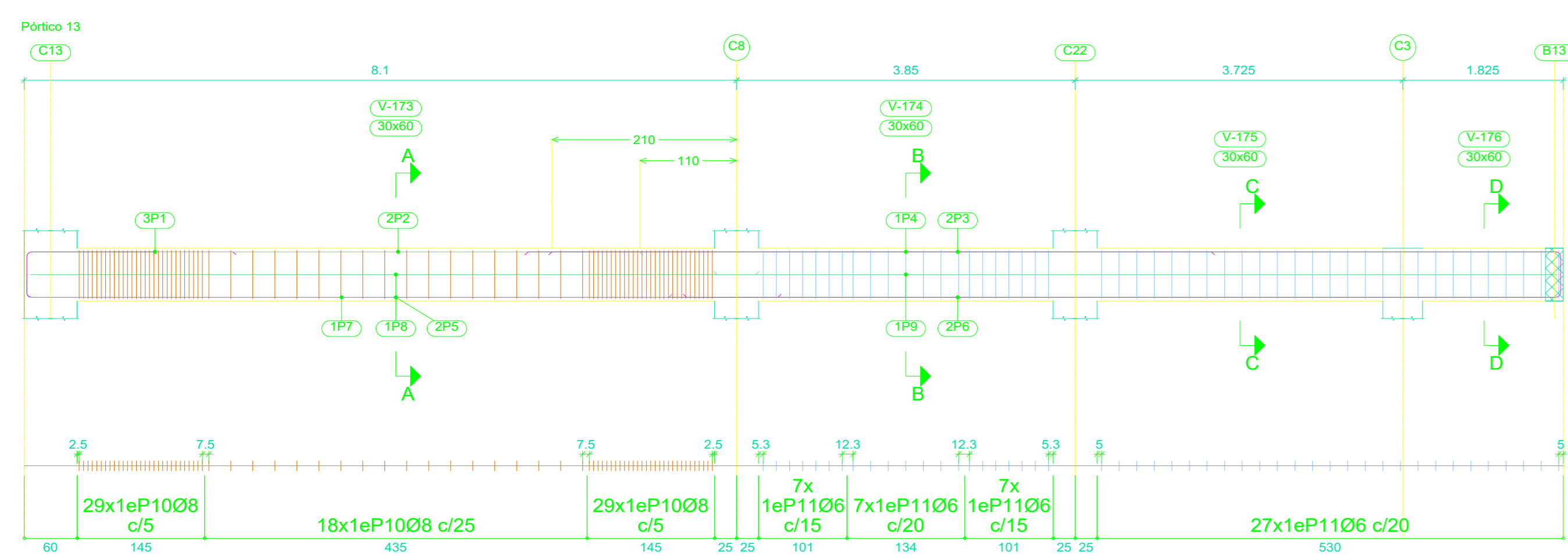
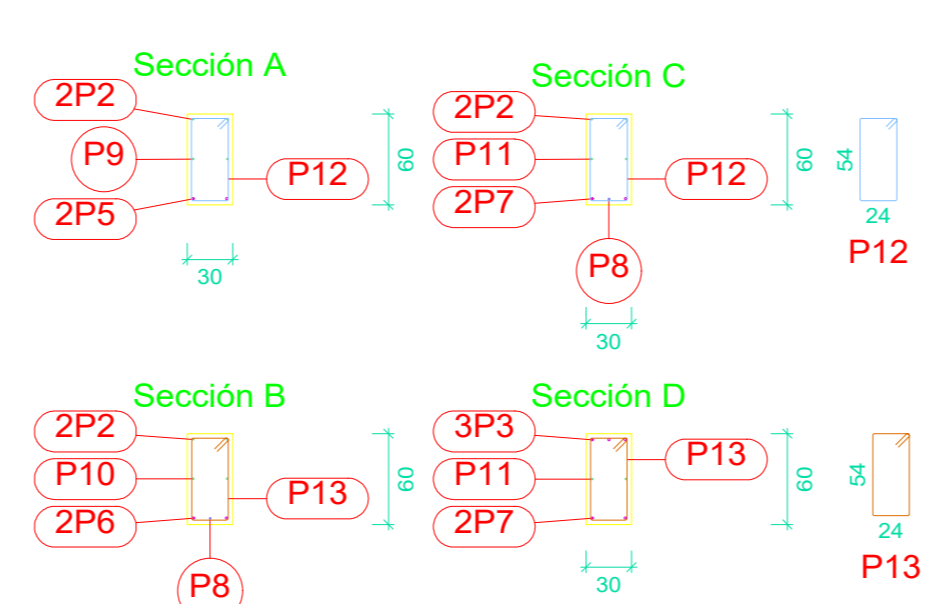
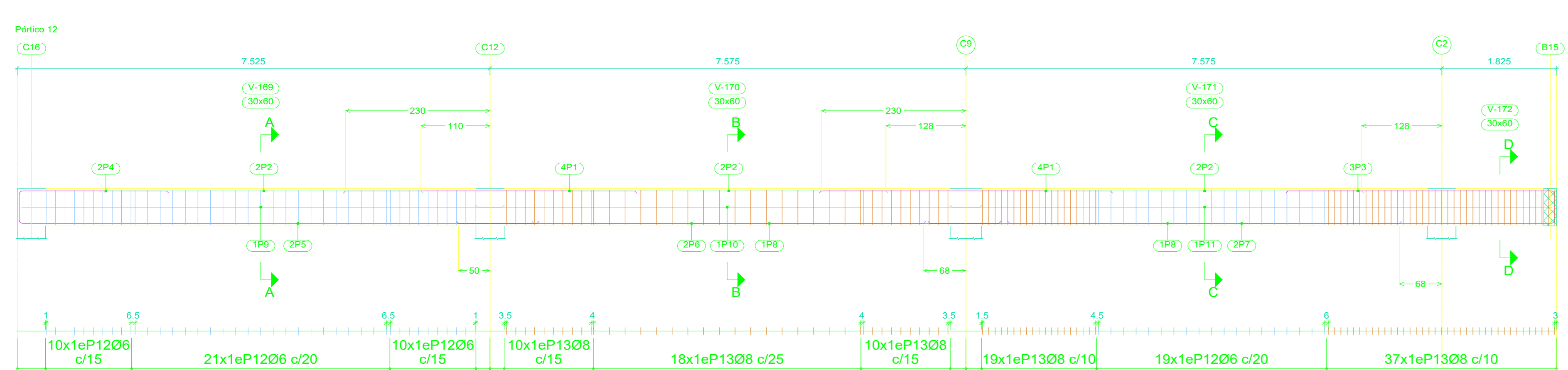
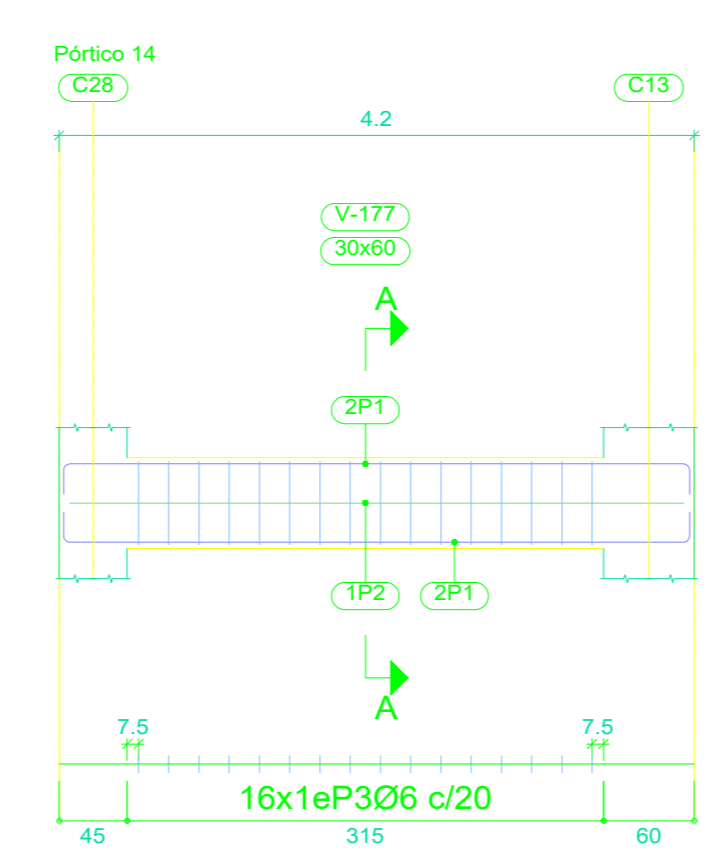
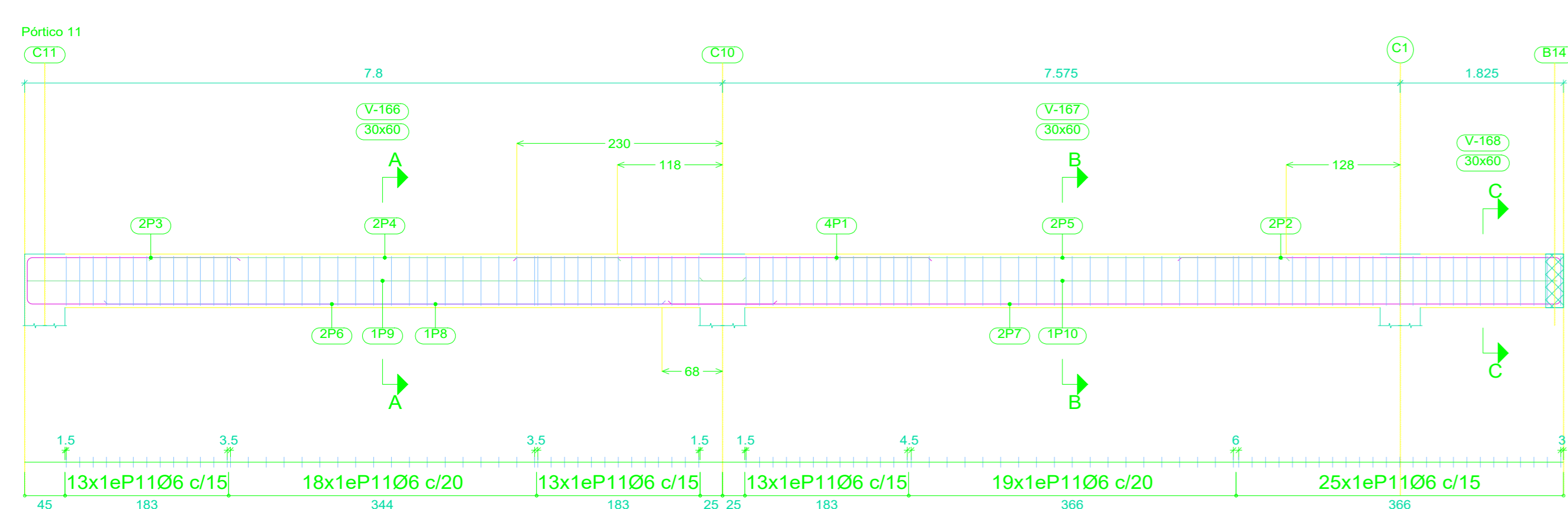
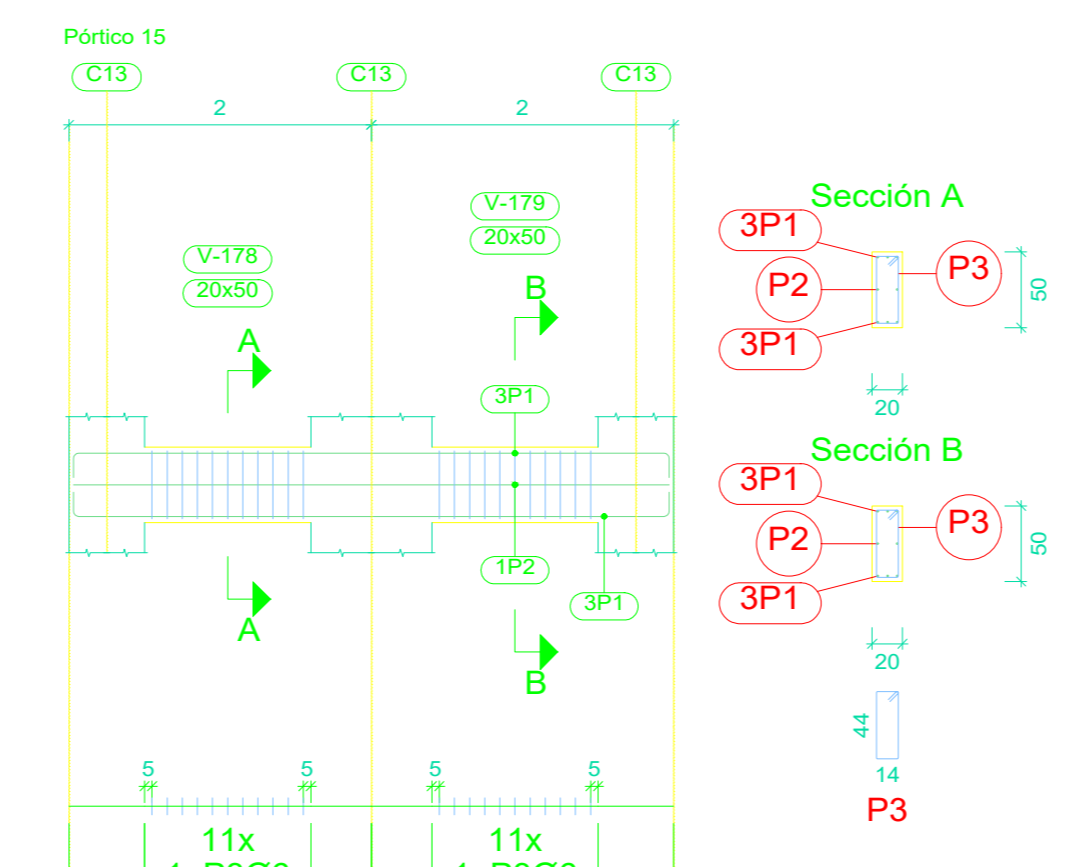
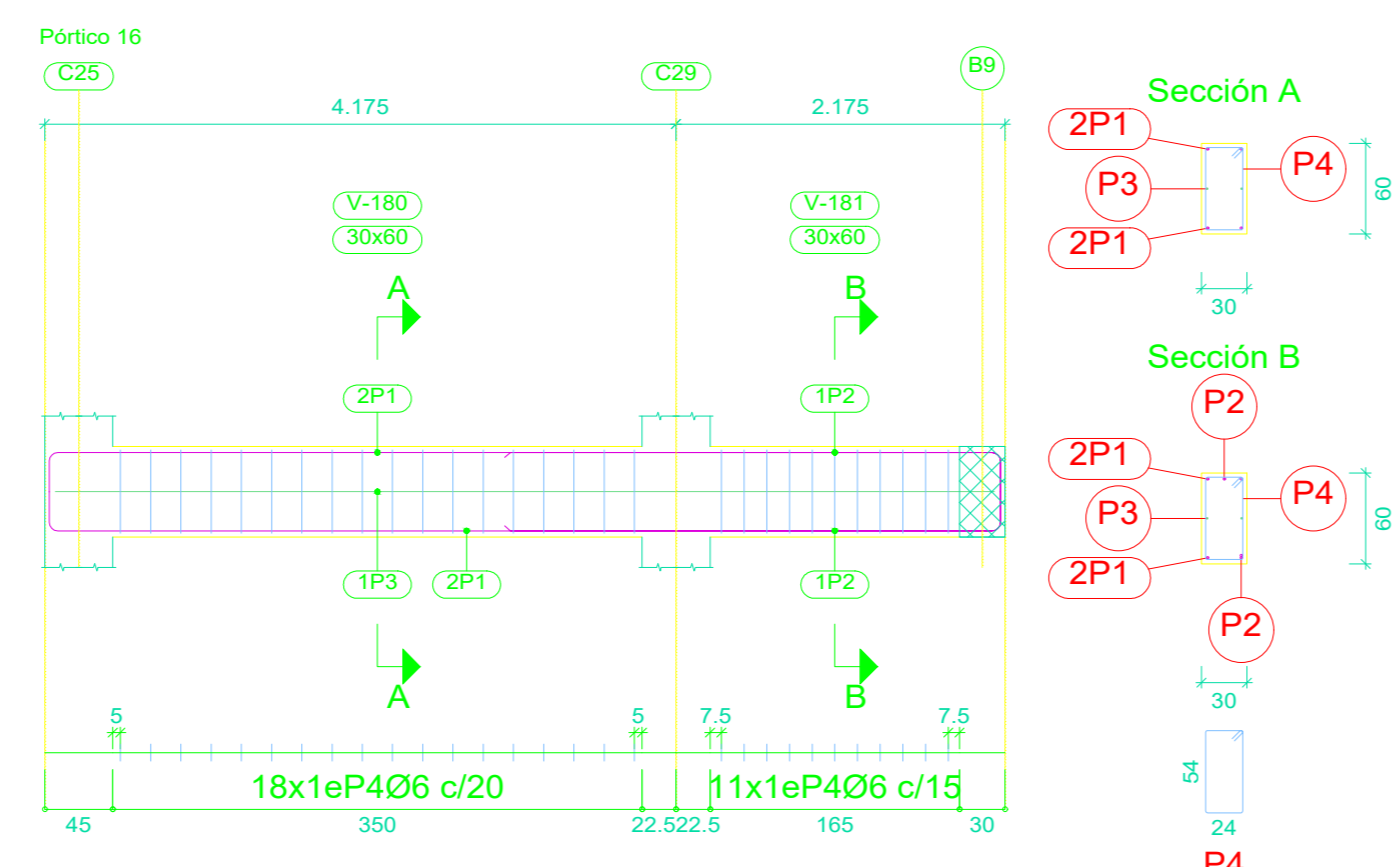
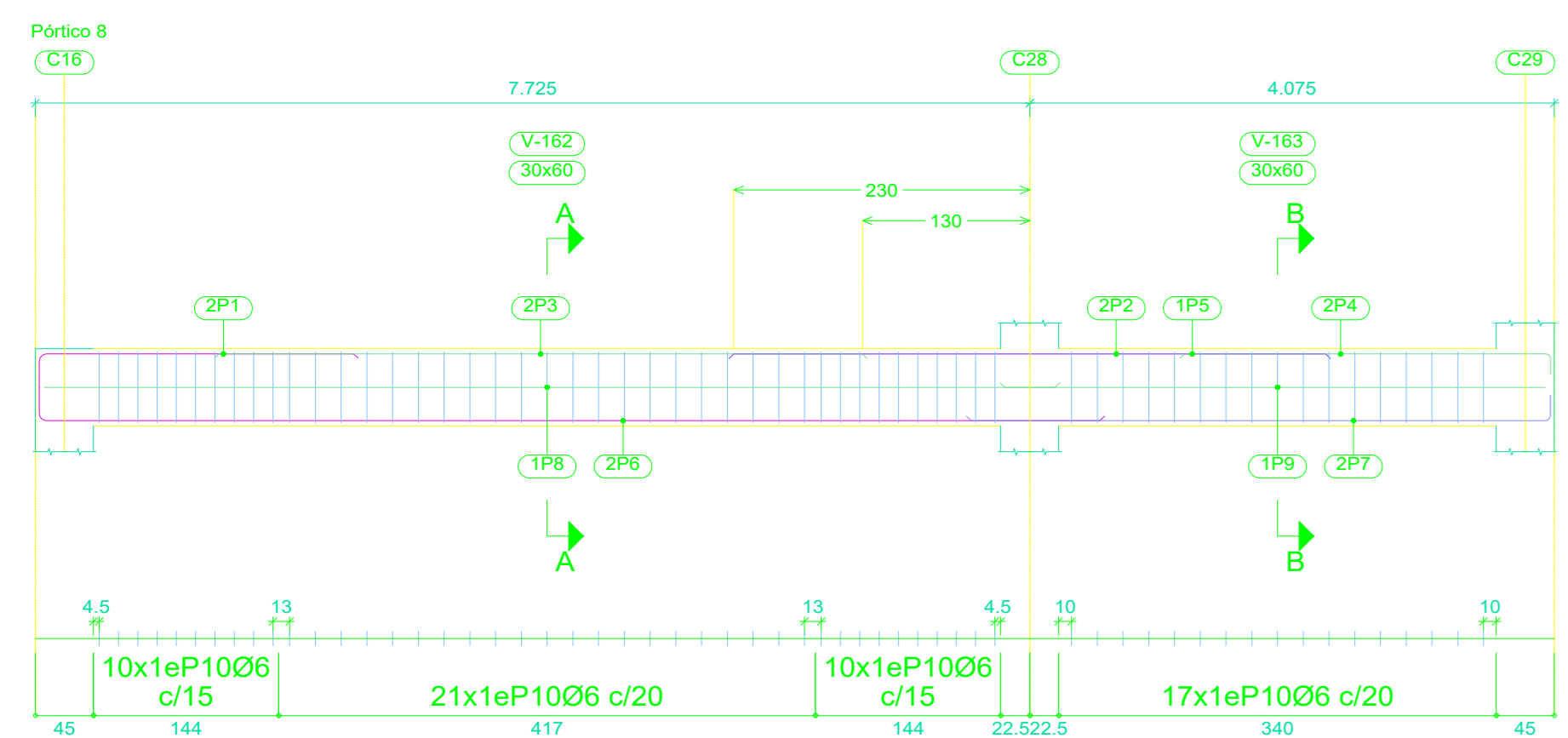


**AZOTEA**  
 Despiece de vigas  
 Hormigón: 25 Mpas  
 Acero en barras: AH-500  
 Acero en estribos: AH-500  
 Escala pórticos 1:50  
 Escala secciones 1:50  
 Escala huecos 1:50

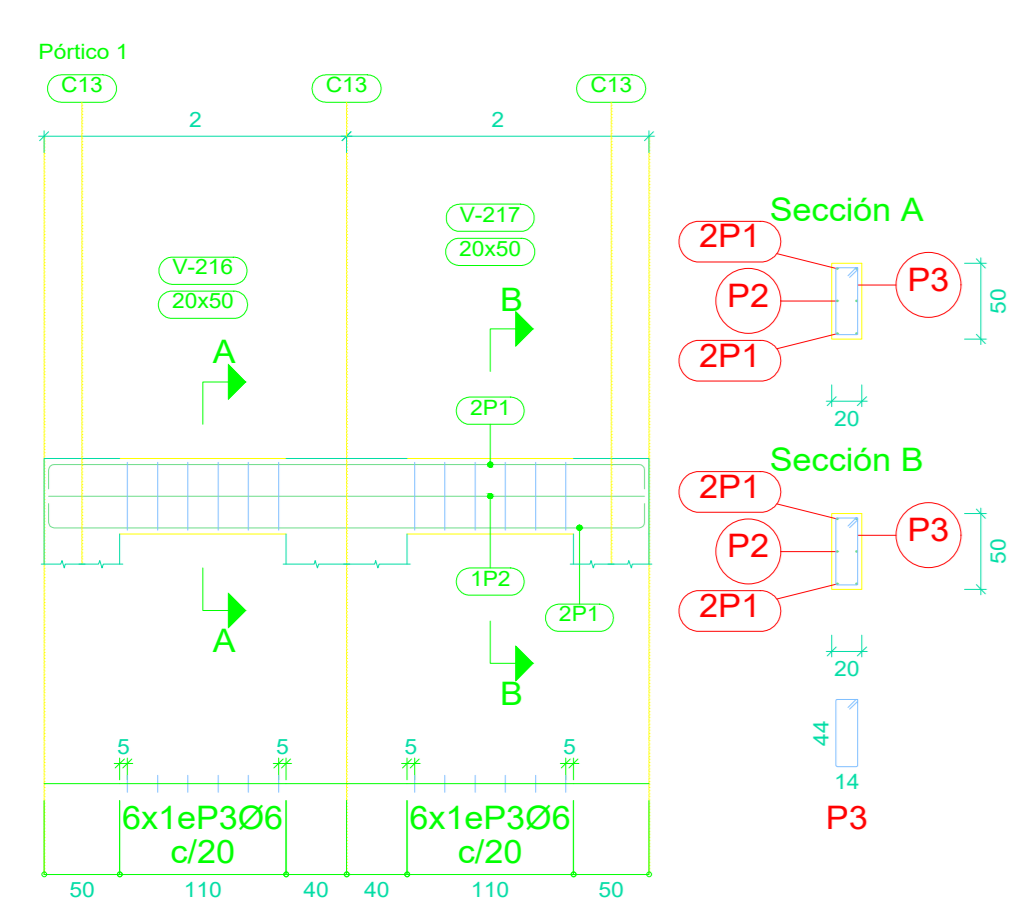
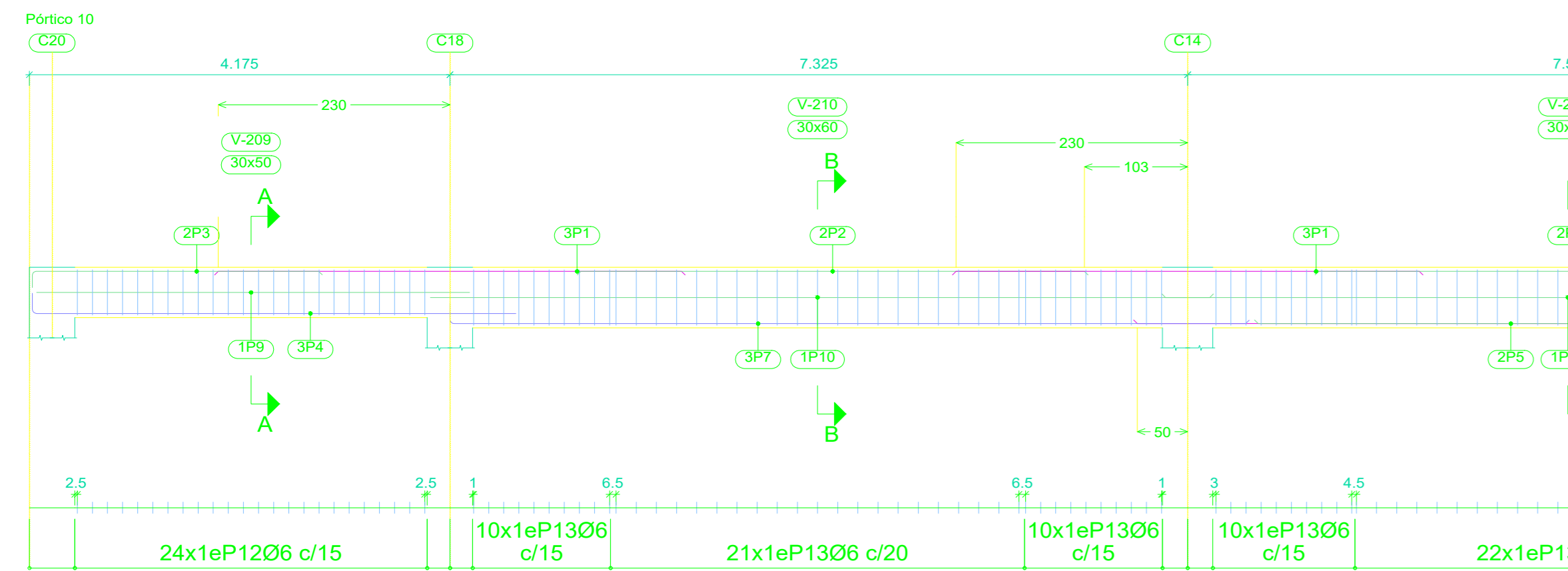
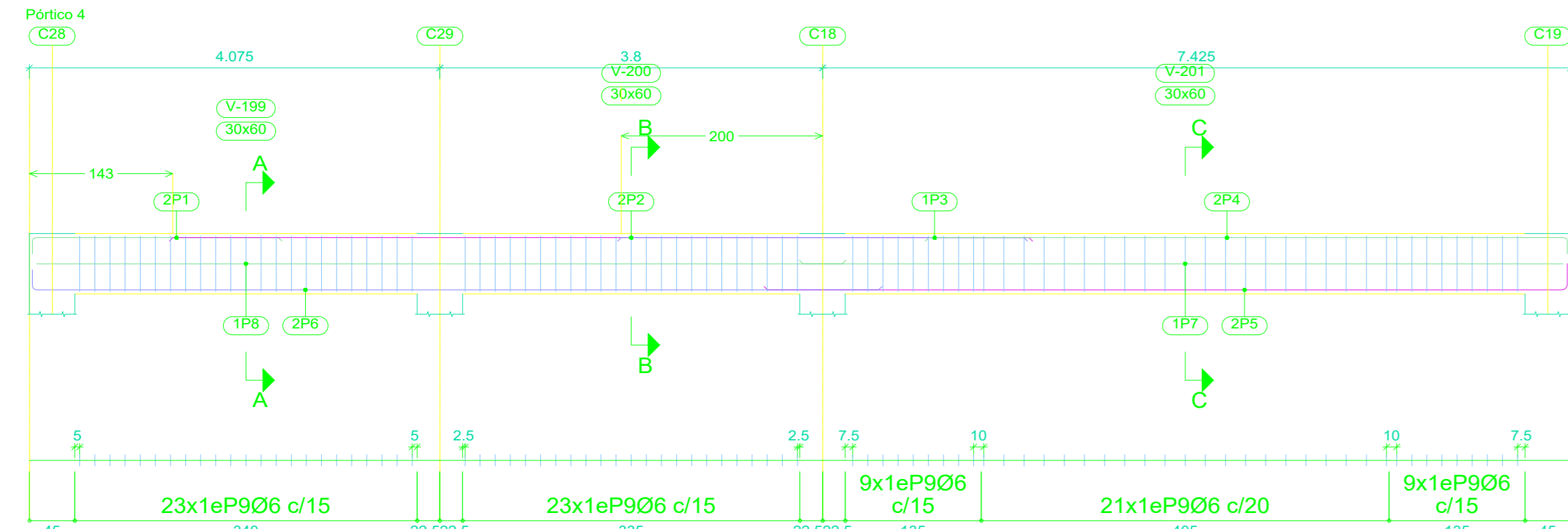
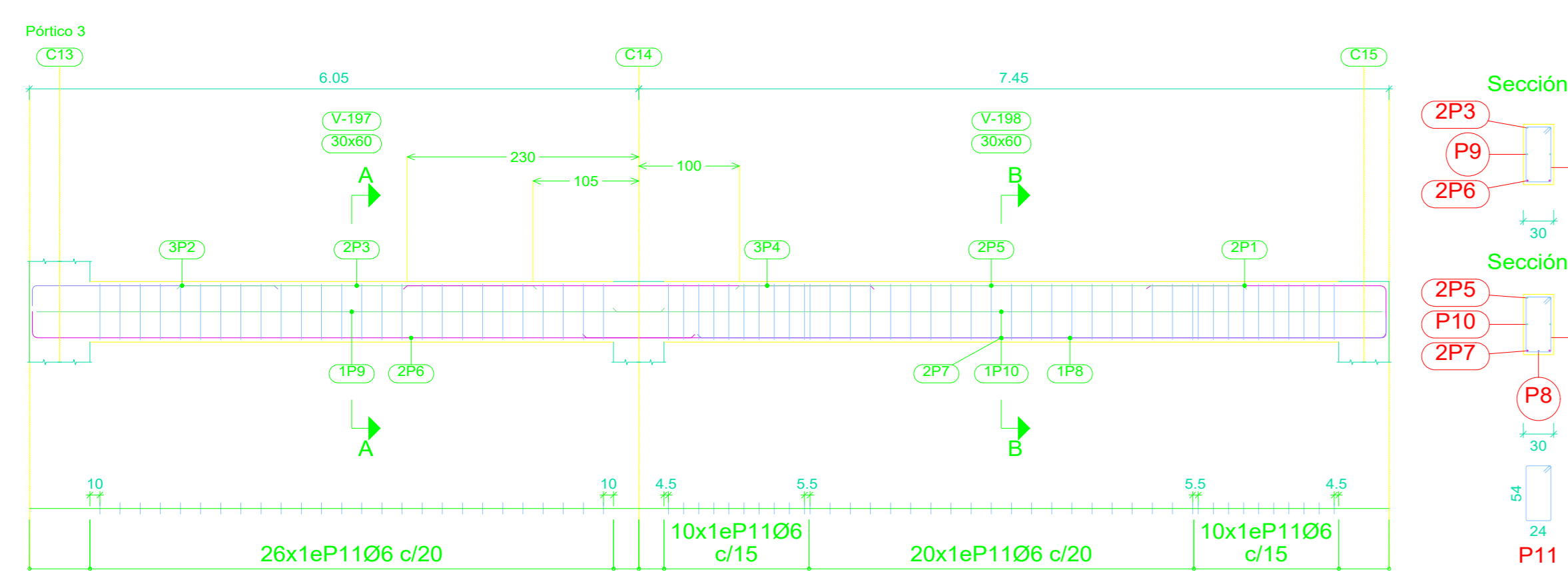
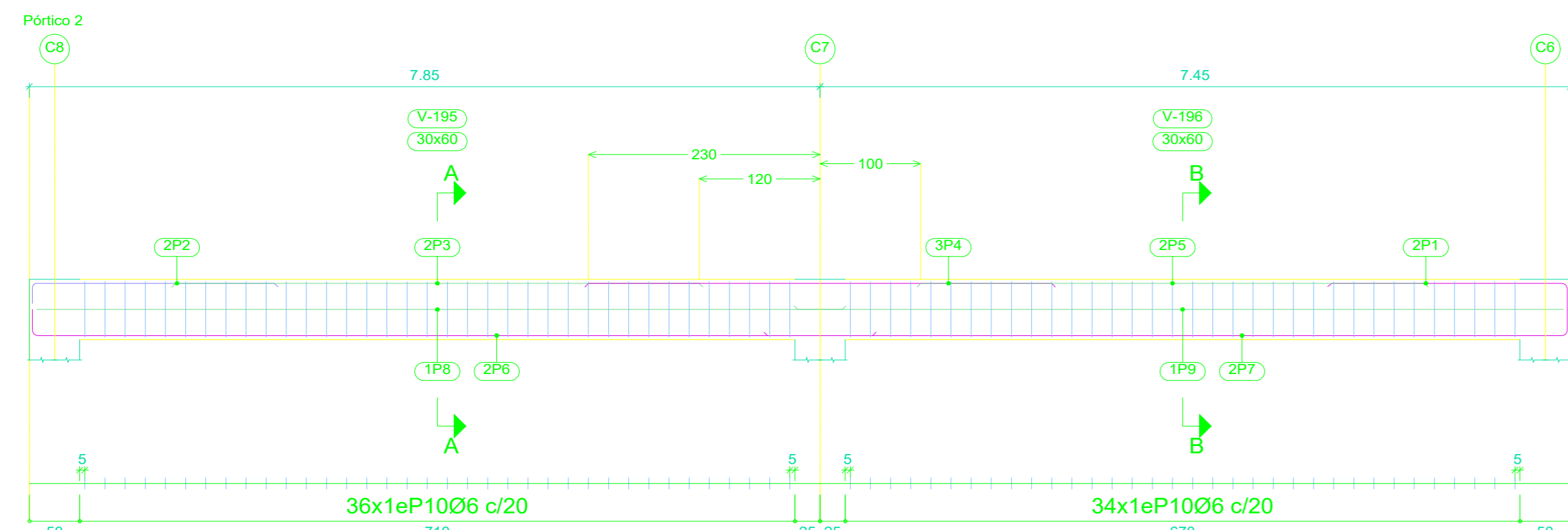
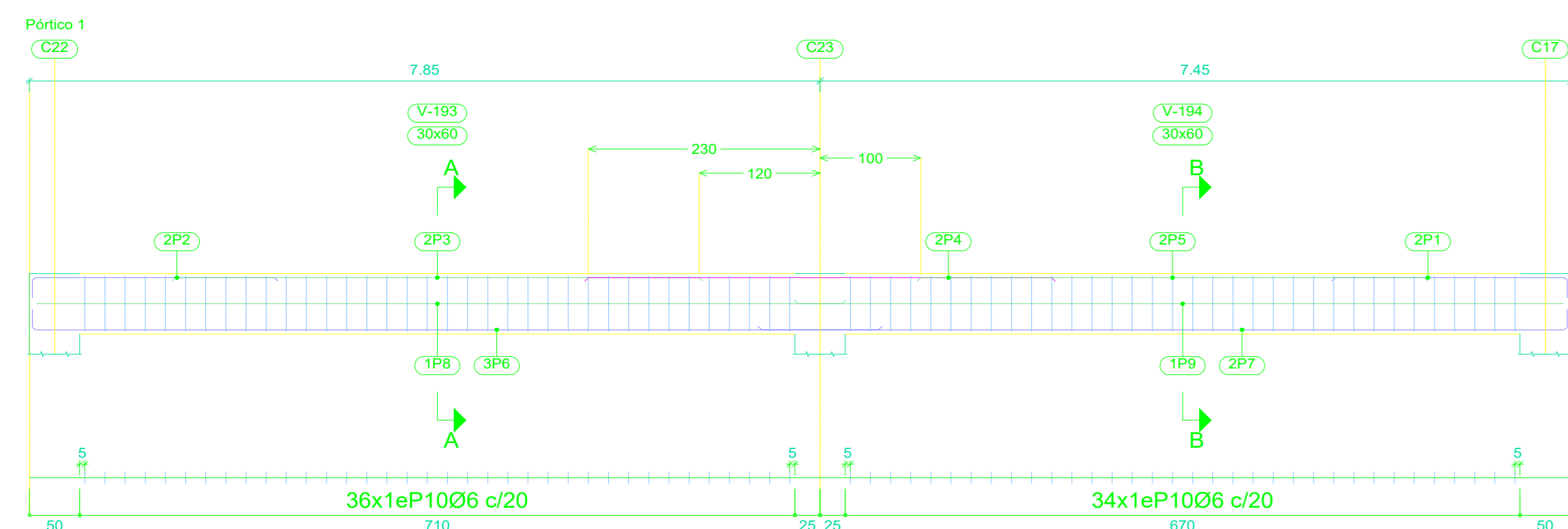


Elemento	Pos.	Diám.	No.	Esquema (cm)	Long (cm)	Total (cm)	AH-500 (kg)
Pórtico 4	1	Ø16	12	460	460	5520	87.1
	2	Ø16	6	234	260	1560	24.6
	3	Ø10	4	500	500	2000	12.3
	4	Ø10	2	520	520	1040	6.4
	5	Ø10	2	480	480	960	5.9
	6	Ø16	2	824	850	1700	26.8
	7	Ø16	2	850	850	1700	26.8
	8	Ø16	2	860	860	1720	27.1
	9	Ø16	2	794	820	1640	25.9
	10	Ø12	3	620	620	1860	16.5
	11	Ø12	1	580	580	580	5.1
	12	Ø10	2	792	808	1616	10.0
	13	Ø10	2	794	794	1588	9.8
	14	Ø10	2	804	804	1608	9.9
	15	Ø10	2	764	780	1560	9.6
	16	Ø6	201		172	34572	76.7
				Total+10%		418.6	
Pórtico 7	1	Ø16	4	419	471	1884	29.7
	2	Ø12	1	419	459	459	4.1
	3	Ø10	2	419	455	910	5.6
	4	Ø6	25		172	4300	9.5
				Total+10%		53.8	
Pórtico 9	1	Ø16	4	234	260	1040	16.4
	2	Ø10	2	480	480	960	5.9
	3	Ø12	2	759	799	1598	14.2
	4	Ø12	1	580	580	580	5.1
	5	Ø10	2	759	791	1582	9.8
	6	Ø6	34		172	5848	13.0
				Total+10%		70.8	

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 1	1	Ø10	4	1184	1200	4800	29.6
	2	Ø10	3	804	820	2460	15.2
	3	Ø10	2	820	820	1640	10.1
	4	Ø10	2	834	850	1700	10.5
	5	Ø10	2	799	830	1660	10.2
	6	Ø10	2	810	810	1620	10.0
	7	Ø10	2	829	860	1720	10.6
	8	Ø6	88		152	13376	29.7
				Total+10%		138.5	
Pórtico 2	1	Ø16	9	460	460	4140	65.3
	2	Ø16	3	234	260	780	12.3
	3	Ø10	4	500	500	2000	12.3
	4	Ø10	2	520	520	1040	6.4
	5	Ø12	2	240	260	520	4.6
	6	Ø10	2	480	480	960	5.9
	7	Ø16	2	824	850	1700	26.8
	8	Ø16	2	850	850	1700	26.8
	9	Ø16	2	860	860	1720	27.1
	10	Ø16	2	794	820	1640	25.9
	11	Ø12	1	620	620	620	5.5
	12	Ø10	2	787	803	1606	9.9
	13	Ø10	2	789	789	1578	9.7
	14	Ø10	2	804	804	1608	9.9
	15	Ø10	2	759	775	1550	9.6
	16	Ø6	159		172	27348	60.7
				Total+10%		350.6	
Pórtico 3	1	Ø16	6	234	260	1560	24.6
	2	Ø10	2	520	520	1040	6.4
	3	Ø16	3	460	460	1380	21.8
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	834	860	1720	27.1
	6	Ø16	2	794	820	1640	25.9
	7	Ø12	1	620	620	620	5.5
	8	Ø12	1	580	580	580	5.1
	9	Ø10	2	804	820	1640	10.1
	10	Ø10	2	764	780	1560	9.6
	11	Ø6	91		172	15652	34.7
				Total+10%		194.4	
Pórtico 5	1	Ø16	6	234	260	1560	24.6
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	2	824	850	1700	26.8
	5	Ø16	2	850	850	1700	26.8
	6	Ø16	2	834	860	1720	27.1
	7	Ø12	1	840	860	860	7.6
	8	Ø10	2	787	803	1606	9.9
	9	Ø10	2	804	820	1640	10.1
	10	Ø8	58		176	10208	40.3
				Total+10%		233.3	
Pórtico 6	1	Ø16	6	234	260	1560	24.6
	2	Ø10	2	350	350	700	4.3
	3	Ø16	3	460	460	1380	21.8
	4	Ø10	2	500	500	1000	6.2
	5	Ø16	2	654	680	1360	21.5
	6	Ø16	2	794	820	1640	25.9
	7	Ø10	2	624	640	1280	7.9
	8	Ø10	2	764	780	1560	9.6
	9	Ø8	28		176	4928	19.4
	10	Ø6	52		172	8944	19.8
				Total+10%		177.1	
Pórtico 10	1	Ø10	4	419	451	1804	11.1
	2	Ø10	2	419	451	902	5.6
	3	Ø6	17		152	2584	5.7
				Total+10%		24.6	

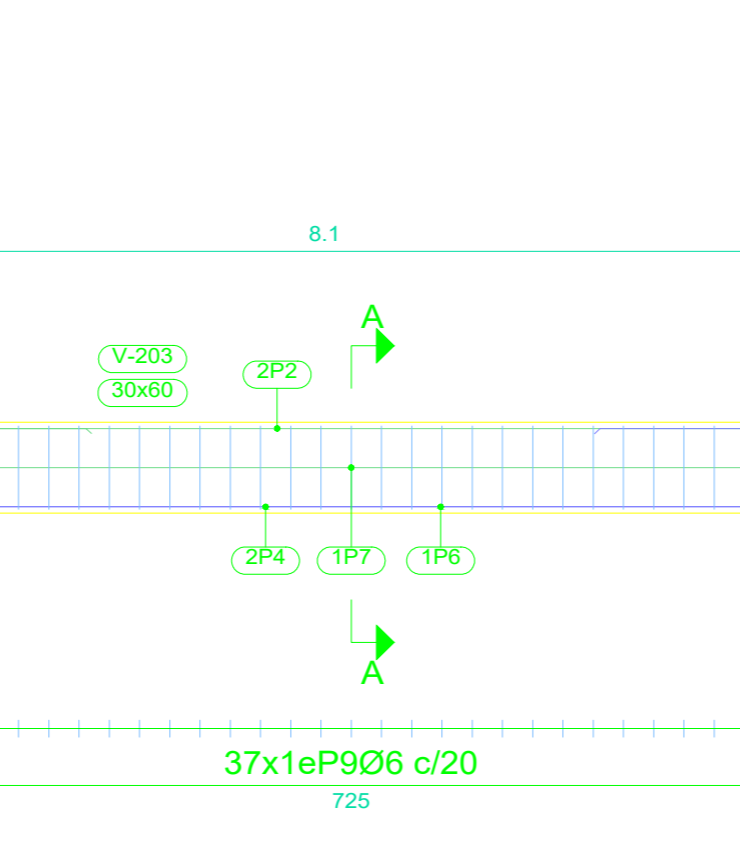
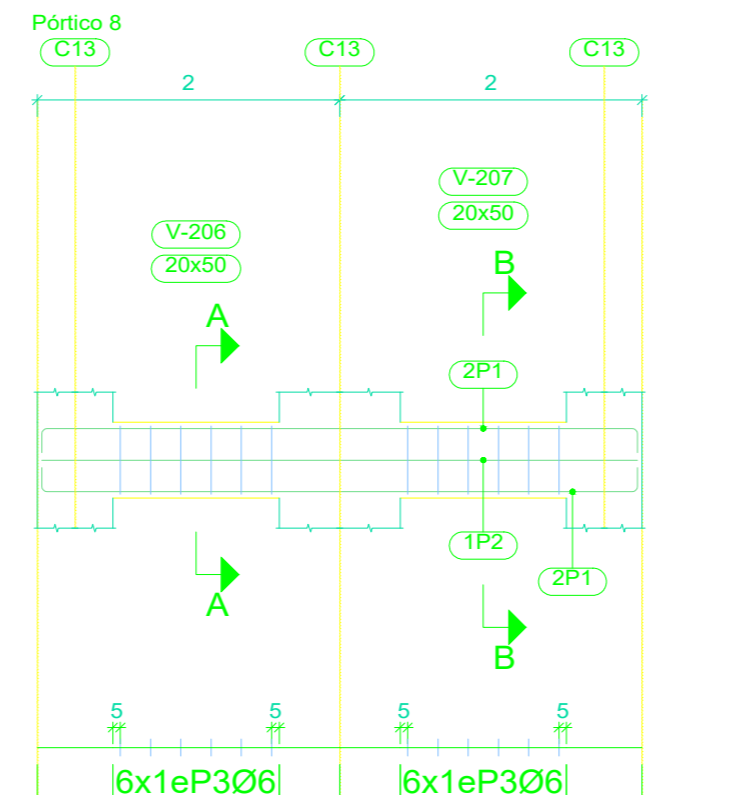
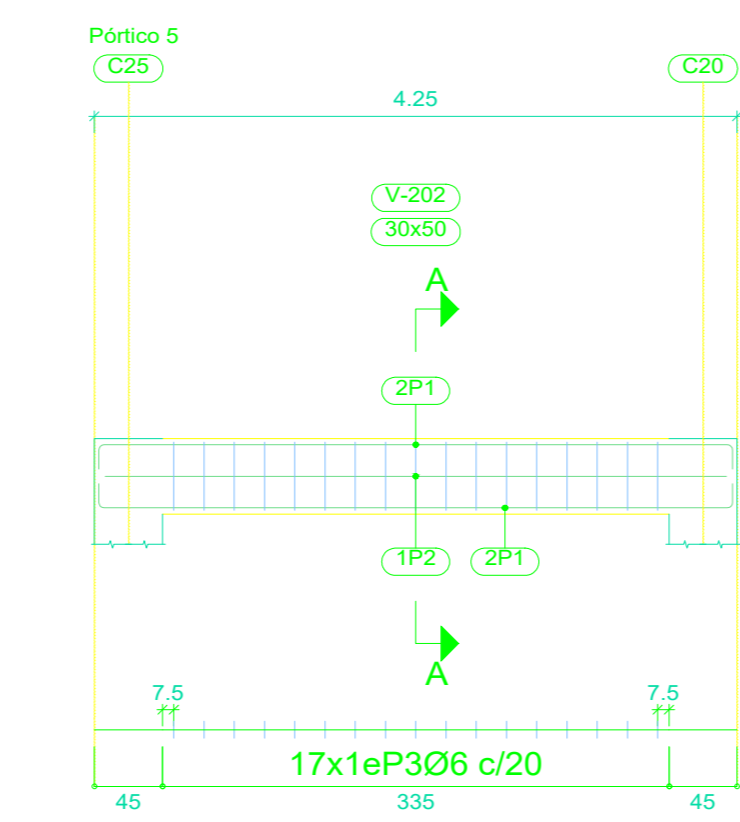


Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)	Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)			
Pórtico 11	1	Ø16	4	460	460	1840	29.0	Pórtico 12	1	Ø16	8	460	460	3680	58.1			
	2	Ø16	2	424	450	900	14.2		2	Ø10	6	500	500	3000	18.5			
	3	Ø16	2	234	260	520	8.2		3	Ø16	3	424	450	1350	21.3			
	4	Ø10	2	520	520	1040	6.4		4	Ø16	2	234	260	520	8.2			
	5	Ø10	2	500	500	1000	6.2		5	Ø16	2	824	850	1700	26.8			
	6	Ø16	2	834	860	1720	27.1		6	Ø16	2	860	860	1720	27.1			
	7	Ø16	2	994	1020	2040	32.2		7	Ø16	2	994	1020	2040	32.2			
	8	Ø12	1	620	620	620	5.5		8	Ø12	2	620	620	1240	11.0			
	9	Ø10	2	799	799	1598	9.9		9	Ø10	2	769	785	1570	9.7			
	10	Ø10	2	959	975	1950	12.0		10	Ø10	2	799	799	1598	9.9			
	11	Ø6	101	24	172	17372	38.6		11	Ø10	2	959	975	1950	12.0			
Total+10%:							208.2		12	Ø6	60	24	172	10320	22.9			
Pórtico 13	1	Ø16	3	234	260	780	12.3		Pórtico 14	1	Ø12	4	414	454	1816	16.1		
	2	Ø10	2	550	550	1100	6.8	2		Ø10	2	414	446	892	5.5			
	3	Ø16	2	1174	1200	2400	37.9	3		Ø6	16	7	172	2752	6.1			
	4	Ø16	1	750	750	750	11.8	Total+10%:							30.5			
	5	Ø16	2	854	880	1760	27.8	Pórtico 15		1	Ø10	6	394	426	2556	15.8		
	6	Ø16	2	994	1020	2040	32.2			2	Ø10	2	394	394	788	4.9		
	7	Ø12	1	730	750	750	6.7			3	Ø6	22	7	132	2904	6.4		
	8	Ø10	2	829	845	1690	10.4			Total+10%:							29.8	
	9	Ø10	2	959	975	1950	12.0			Pórtico 16	1	Ø16	4	629	681	2724	43.0	
	10	Ø6	76	24	176	13376	52.8				2	Ø16	2	324	350	700	11.0	
	11	Ø6	48	24	172	8256	18.3				3	Ø10	2	629	661	1322	8.2	
Total+10%:							251.9				Total+10%:							80.6
Pórtico 17	1	Ø16	3	600	600	1800	28.4				Pórtico 18	1	Ø16	3	460	460	1380	21.8
	2	Ø16	5	460	460	2300	36.3		2			Ø10	4	500	500	2000	12.3	
	3	Ø10	2	500	500	1000	6.2		3			Ø16	2	234	260	520	8.2	
	4	Ø16	3	1174	1200	3600	56.8	4	Ø16			3	850	850	2550	40.2		
	5	Ø10	2	244	260	520	3.2	5	Ø12			2	260	280	560	5.0		
	6	Ø10	2	380	380	760	4.7	6	Ø12			2	820	840	1680	14.9		
	7	Ø12	1	460	460	460	4.1	7	Ø16			2	860	860	1720	27.1		
	8	Ø10	2	484	500	1000	6.2	8	Ø16	2		834	860	1720	27.1			
	9	Ø16	2	850	850	1700	26.8	9	Ø12	1		860	860	860	7.6			
	10	Ø16	2	860	860	1720	27.1	10	Ø16	1		860	860	860	7.6			
	11	Ø16	2	994	1020	2040	32.2	11	Ø10	2		799	799	1598	9.9			
	12	Ø12	1	850	850	850	7.5	12	Ø10	2		774	790	1580	9.7			
	13	Ø12	1	860	860	860	7.6	13	Ø10	2		799	799	1598	9.9			
	14	Ø10	2	799	799	1598	9.9	14	Ø10	2		799	799	1598	9.9			
	15	Ø10	2	959	975	1950	12.0	15	Ø10	2		799	799	1598	9.9			
	16	Ø10	2	1169	1185	2370	14.6	16	Ø10	2		799	815	1630	10.0			
	17	Ø6	191	24	172	32852	72.9	17	Ø6	122		7	172	20984	46.6			
Total+10%:							392.2	Total+10%:							264.4			
Pórtico 8	1	Ø16	2	244	270	540	8.5	Pórtico 8	1	Ø16	2	244	270	540	8.5			
	2	Ø16	2	460	460	920	14.5		2	Ø16	2	460	460	920	14.5			
	3	Ø10	2	500	500	1000	6.2		3	Ø10	2	500	500	1000	6.2			
	4	Ø10	2	284	300	600	3.7		4	Ø10	2	284	300	600	3.7			
	5	Ø12	1	460	460	460	4.1		5	Ø12	1	460	460	460	4.1			
	6	Ø16	2	824	850	1700	26.8		6	Ø16	2	824	850	1700	26.8			
	7	Ø12	2	450	470	940	8.3		7	Ø12	2	450	470	940	8.3			
	8	Ø10	2	789	805	1610	9.9		8	Ø10	2	789	805	1610	9.9			
	9	Ø10	2	424	440	880	5.4		9	Ø10	2	424	440	880	5.4			
	10	Ø6	58	7	172	9976	22.1		10	Ø6	58	7	172	9976	22.1			
Total+10%:							120.5	Total+10%:							120.5			

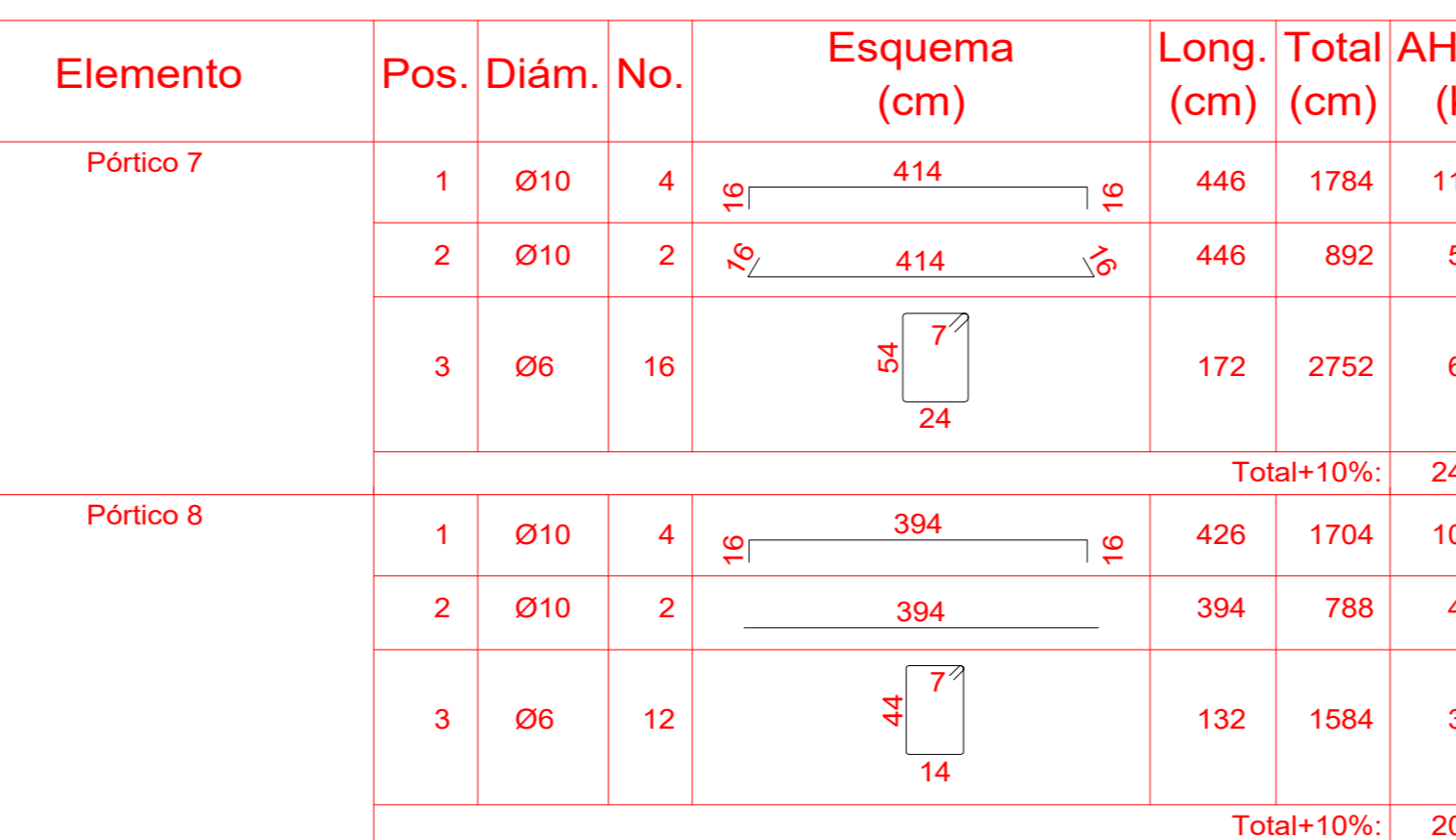
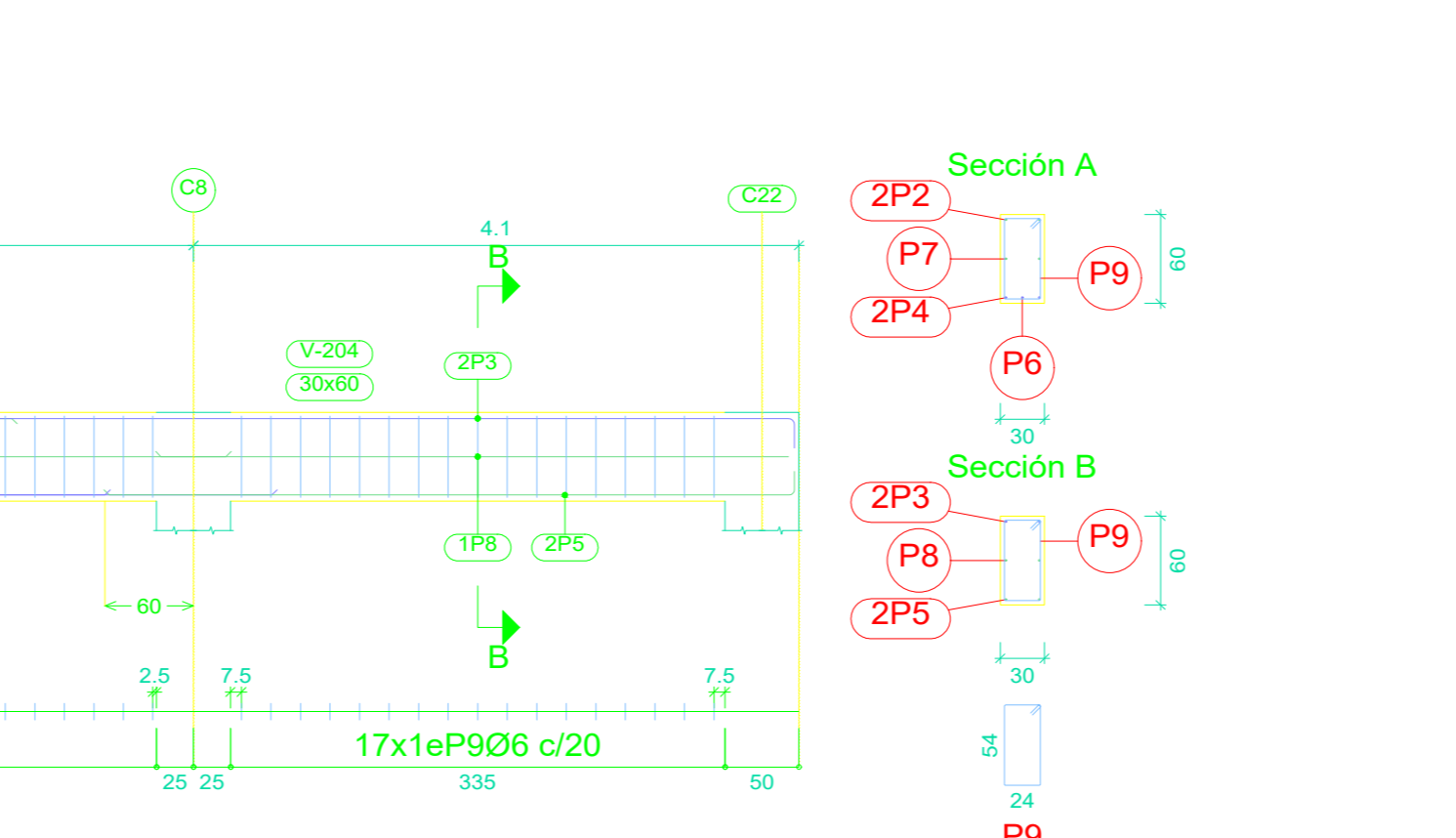
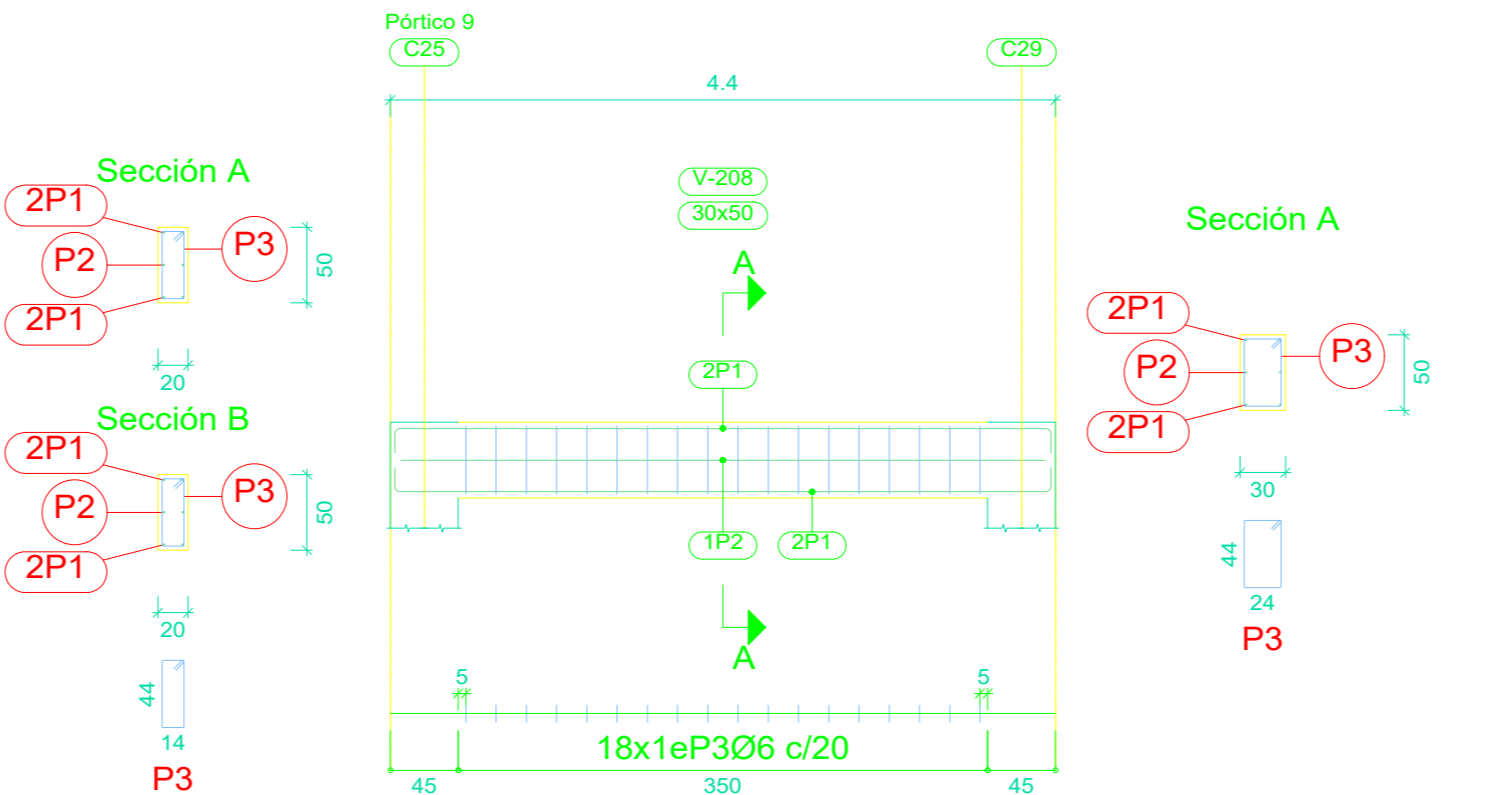
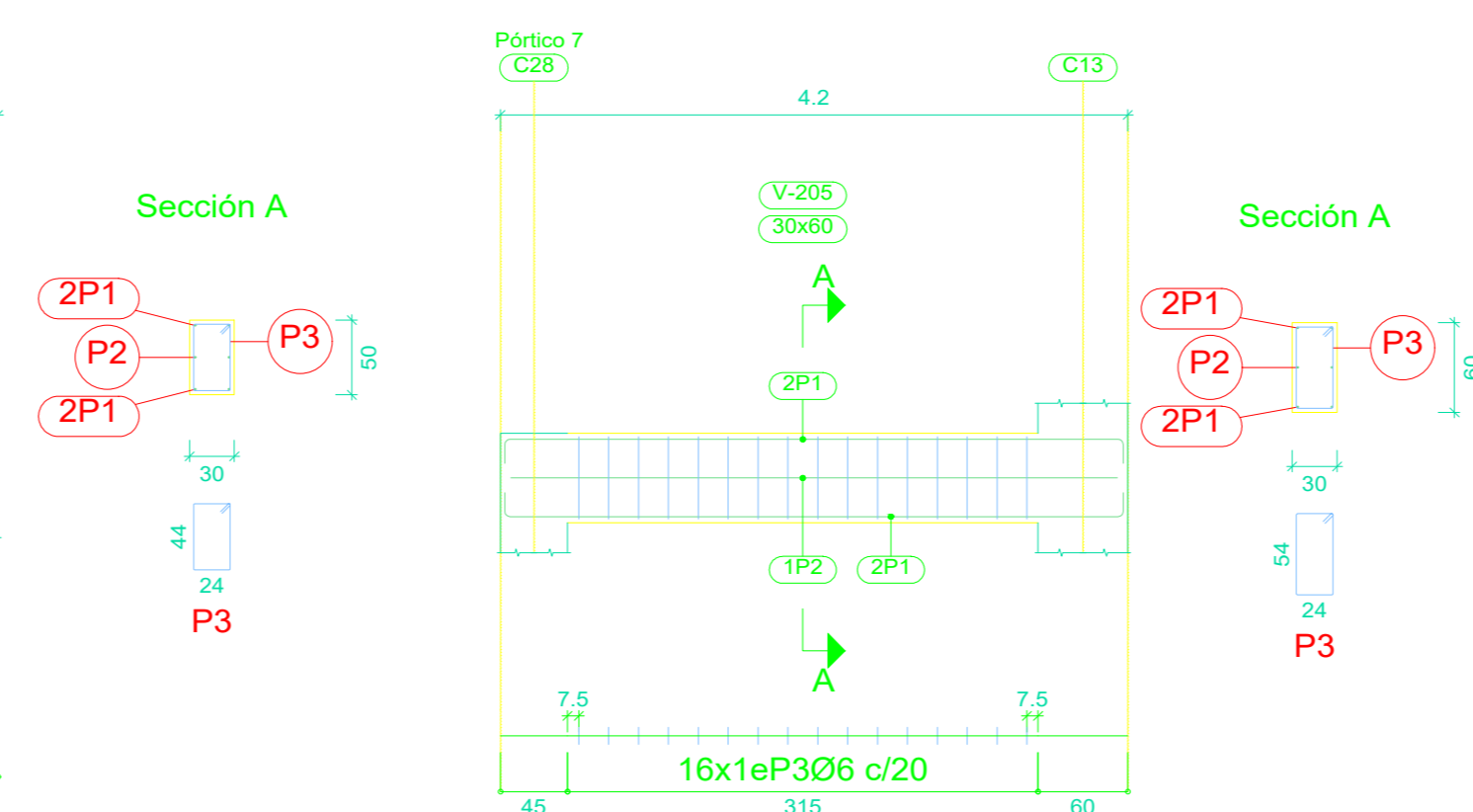


**SALA DE MÁQUINAS**  
 Despiece de vigas  
 Hormigón: 25 Mpas  
 Acero en barras: AH-500  
 Escala pórticos 1:50  
 Escala secciones 1:50  
 Escala huecos 1:50

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 1	1	Ø10	4	394	426	1704	10.5
	2	Ø10	2	394	394	788	4.9
	3	Ø6	12	14	132	1584	3.5
Total+10%:							20.8



Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 7	1	Ø10	4	414	446	1784	11.0
	2	Ø10	2	414	446	892	5.5
	3	Ø6	16	24	172	2752	6.1
Total+10%:							24.9
Pórtico 8	1	Ø10	4	394	426	1704	10.5
	2	Ø10	2	394	394	788	4.9
	3	Ø6	12	14	132	1584	3.5
Total+10%:							20.8



Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 1	1	Ø12	2	230	250	500	4.4
	2	Ø12	2	240	260	520	4.6
	3	Ø10	2	520	520	1040	6.4
	4	Ø16	2	460	460	920	14.5
	5	Ø10	2	500	500	1000	6.2
	6	Ø12	3	840	860	2580	22.9
	7	Ø12	2	800	820	1640	14.6
	8	Ø10	2	804	820	1640	10.1
	9	Ø10	2	764	780	1560	9.6
	10	Ø6	70	24	172	12040	26.7
Total+10%:							132.0

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 3	1	Ø16	2	234	260	520	8.2
	2	Ø12	3	240	260	780	6.9
	3	Ø10	2	350	350	700	4.3
	4	Ø16	3	460	460	1380	21.8
	5	Ø10	2	500	500	1000	6.2
	6	Ø16	2	654	680	1360	21.5
	7	Ø16	2	794	820	1640	25.9
	8	Ø12	1	680	700	700	6.2
	9	Ø10	2	624	640	1280	7.9
	10	Ø10	2	764	780	1560	9.6
	11	Ø6	66	24	172	11352	25.2
Total+10%:							158.1

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 5	1	Ø10	4	419	451	1804	11.1
	2	Ø10	2	419	451	902	5.6
	3	Ø6	17	24	152	2584	5.7
Total+10%:							24.6

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 10	1	Ø16	8	460	460	3680	58.1
	2	Ø10	4	500	500	2000	12.3
	3	Ø10	4	284	300	1200	7.4
	4	Ø12	3	480	500	1500	13.3
	5	Ø16	2	850	850	1700	26.8
	6	Ø10	2	484	500	1000	6.2
	7	Ø12	3	790	810	2430	21.6
	8	Ø10	1	620	620	620	3.8
	9	Ø10	2	434	450	900	5.5
	10	Ø10	2	774	774	1548	9.5
	11	Ø10	2	1184	1200	2400	14.8
12	Ø6	24	24	152	3648	8.1	
13	Ø6	100	24	172	17200	38.2	
Total+10%:							248.2

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 11	1	Ø10	2	634	650	1300	8.0
	2	Ø16	3	460	460	1380	21.8
	3	Ø10	2	500	500	1000	6.2
	4	Ø12	2	460	460	920	8.2
	5	Ø10	2	284	300	600	3.7
	6	Ø12	2	810	830	1660	14.7
	7	Ø12	3	850	850	2550	22.6
	8	Ø10	2	464	480	960	5.9
	9	Ø12	1	620	640	640	5.7
	10	Ø10	2	774	790	1580	9.7
	11	Ø10	2	1164	1200	2400	14.8
	12	Ø6	88	24	172	15136	33.6
Total+10%:							170.4

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 2	1	Ø16	2	234	260	520	8.2
	2	Ø12	2	240	260	520	4.6
	3	Ø10	2	520	520	1040	6.4
	4	Ø16	3	460	460	1380	21.8
	5	Ø10	2	500	500	1000	6.2
	6	Ø16	2	834	860	1720	27.1
	7	Ø16	2	794	820	1640	25.9
	8	Ø10	2	804	820	1640	10.1
	9	Ø10	2	764	780	1560	9.6
	10	Ø6	70	24	172	12040	26.7
Total+10%:							161.3

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 4	1	Ø10	2	244	260	520	3.2
	2	Ø16	2	850	850	1700	26.8
	3	Ø12	1	400	400	400	3.6
	4	Ø10	2	634	650	1300	8.0
	5	Ø16	2	794	820	1640	25.9
	6	Ø12	2	840	860	1720	15.3
	7	Ø10	2	759	775	1550	9.6
	8	Ø10	2	804	820	1640	10.1
	9	Ø6	85	24	172	14620	32.4
Total+10%:							148.4

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 6	1	Ø10	2	244	260	520	3.2
	2	Ø10	2	684	700	1400	8.6
	3	Ø12	2	630	650	1300	11.5
	4	Ø12	2	860	880	1760	15.6
	5	Ø12	1	464	480	960	5.9
	6	Ø10	2	650	650	650	5.8
	7	Ø10	2	829	845	1690	10.4
8	Ø10	2	429	445	890	5.5	
9	Ø6	54	24	172	9288	20.6	
Total+10%:							95.8

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 11	1	Ø10	2	634	650	1300	8.0
	2	Ø16	3	460	460	1380	21.8
	3	Ø10	2	500	500	1000	6.2
	4	Ø12	2	460	460	920	8.2
	5	Ø10	2	284	300	600	3.7
	6	Ø12	2	810	830	1660	14.7
	7	Ø12	3	850	850	2550	22.6
	8	Ø10	2	464	480	960	5.9
	9	Ø12	1	620	640	640	5.7
	10	Ø10	2	774	790	1580	9.7
	11	Ø10	2	1164	1200	2400	14.8
	12	Ø6	88	24	172	15136	33.6
Total+10%:							170.4

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 9	1	Ø10	4	434	466	1864	11.5
	2	Ø10	2	434	466	932	5.7
	3	Ø6	18	24	152	2736	6.1
Total+10%:							25.6



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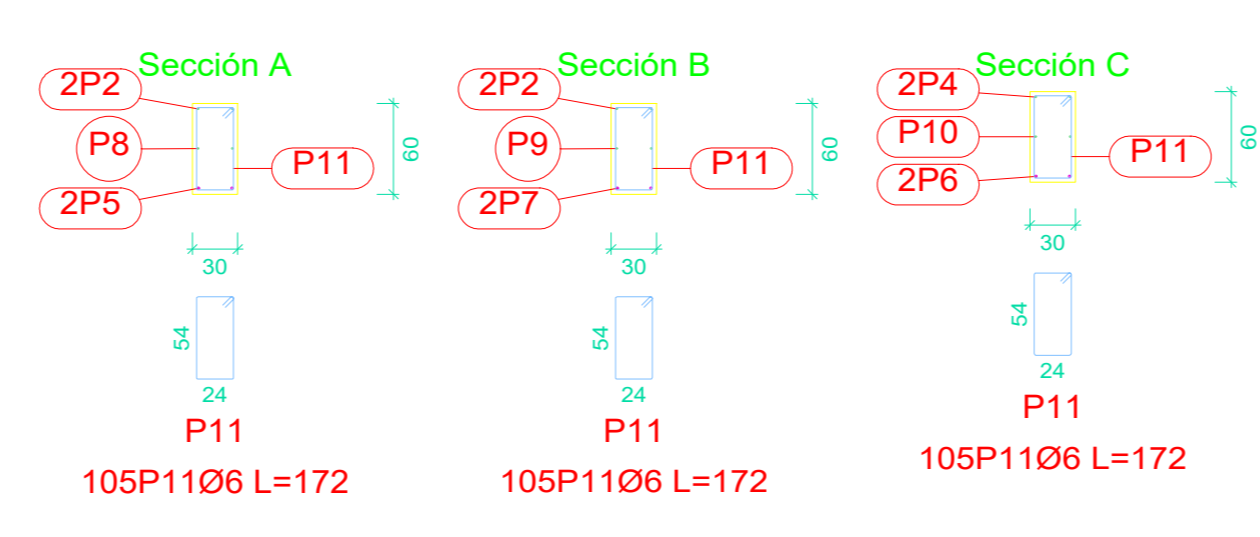
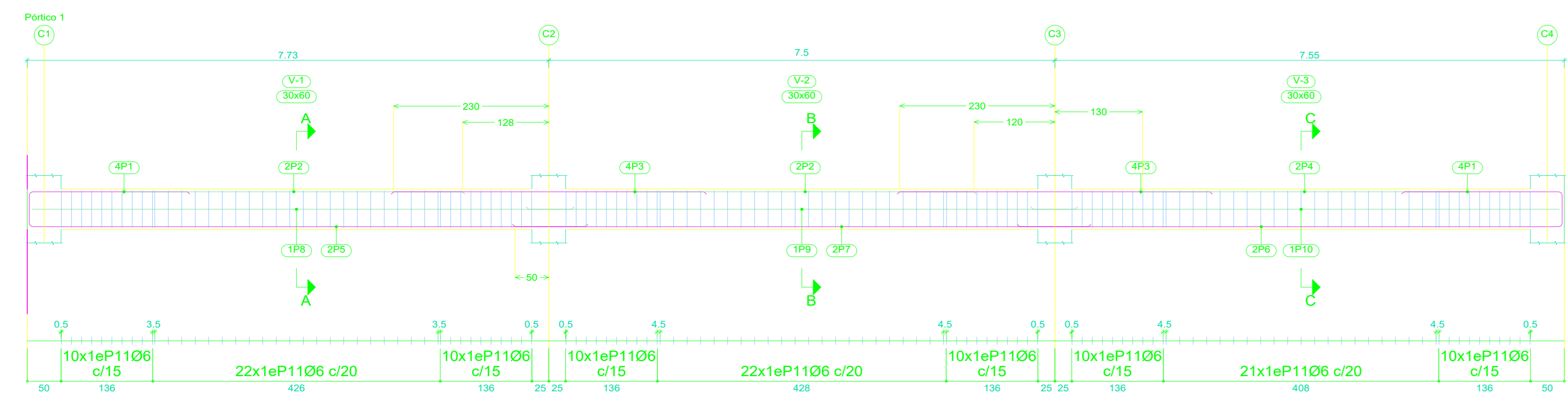
PROYECTO:  
 HOSPITAL DE SEGUNDO NIVEL YACUIBA

CARACTER:  
 DESPIECE DE VIGAS MÓDULO 3

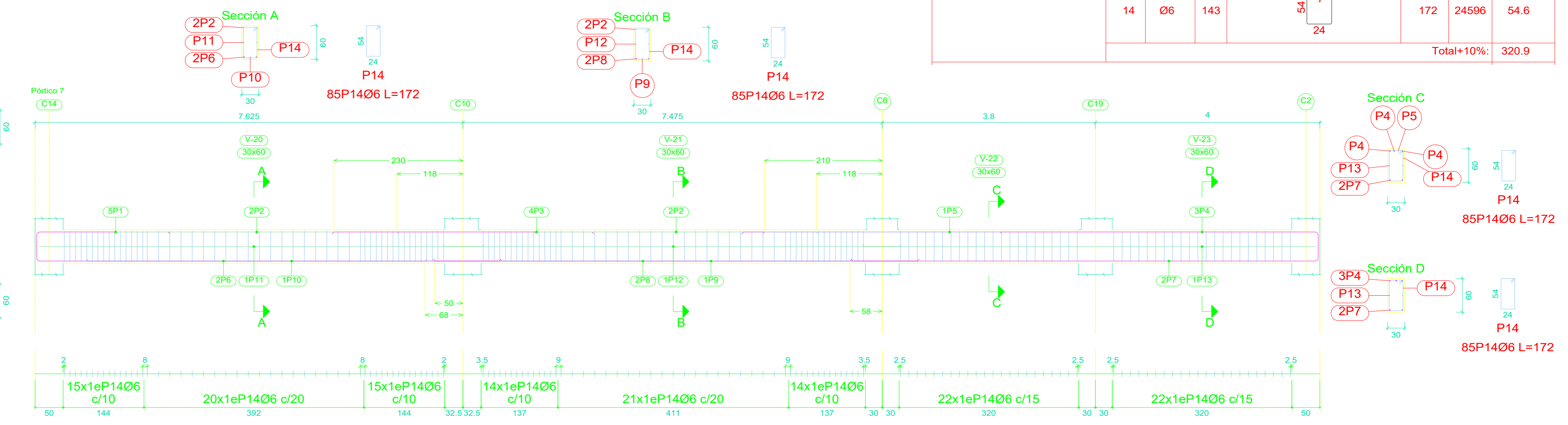
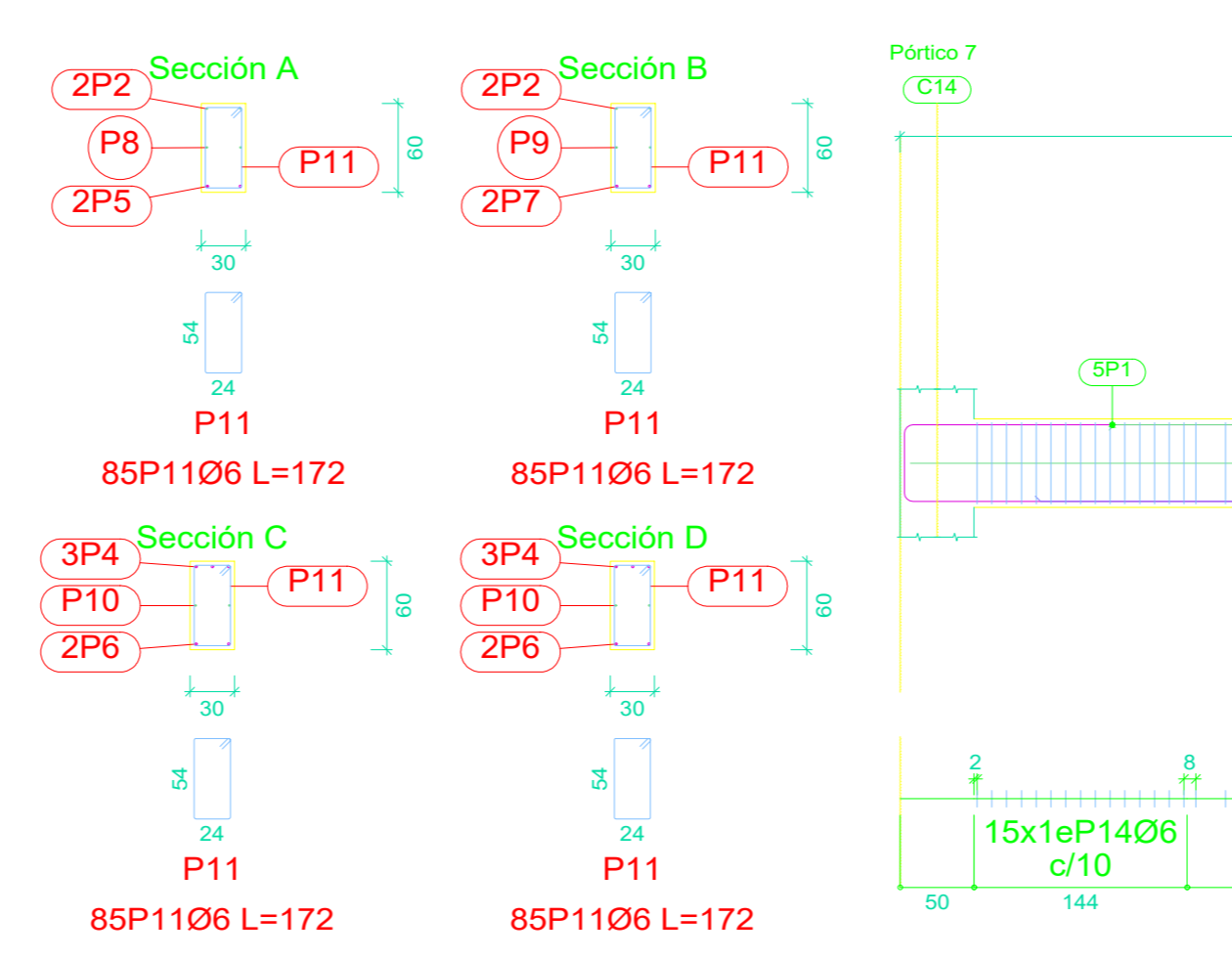
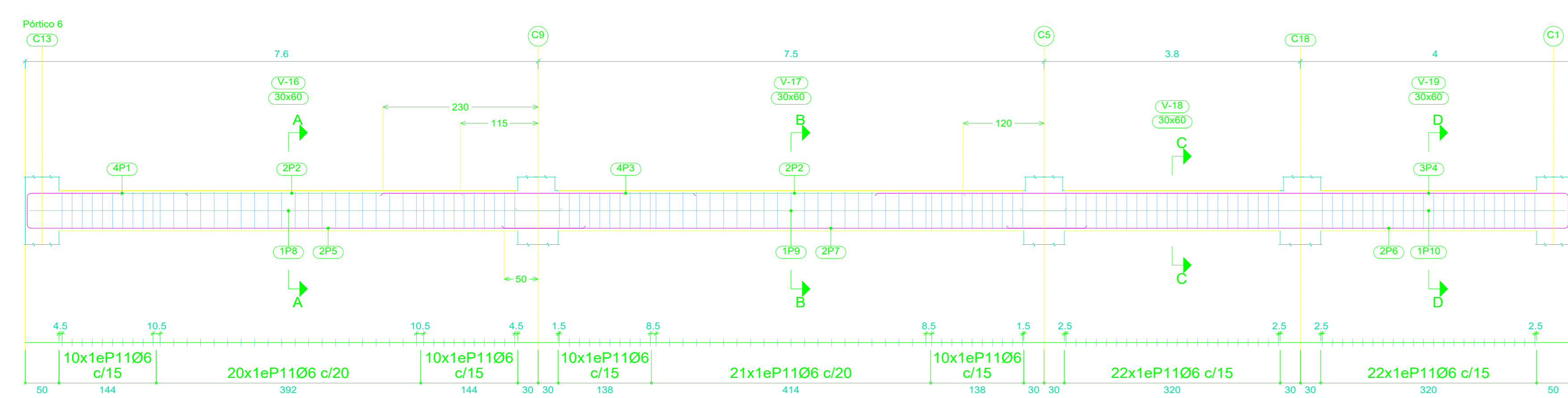
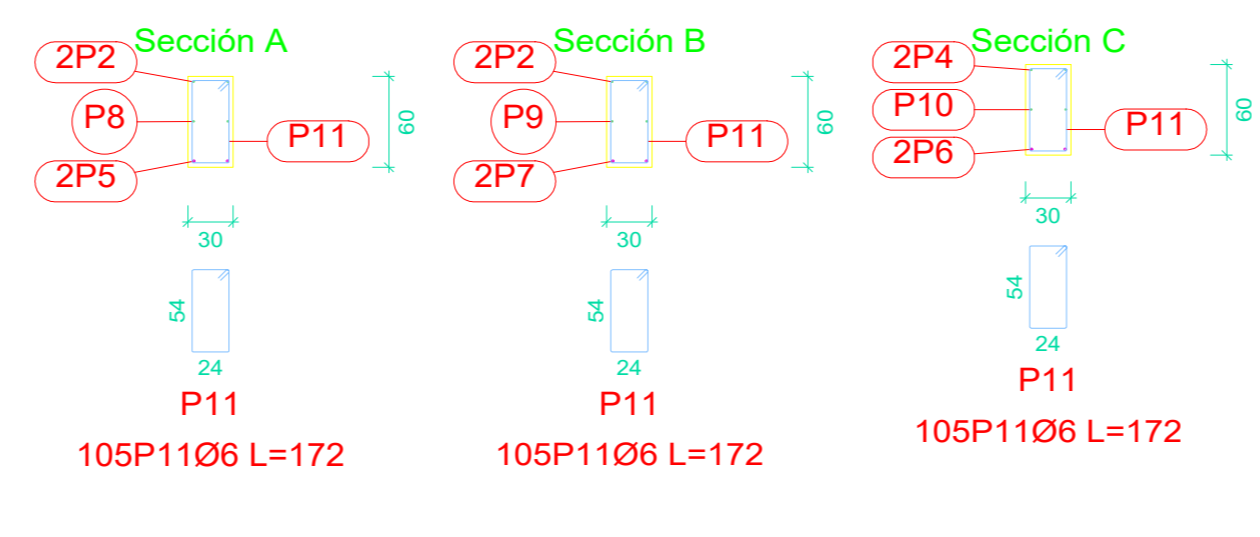
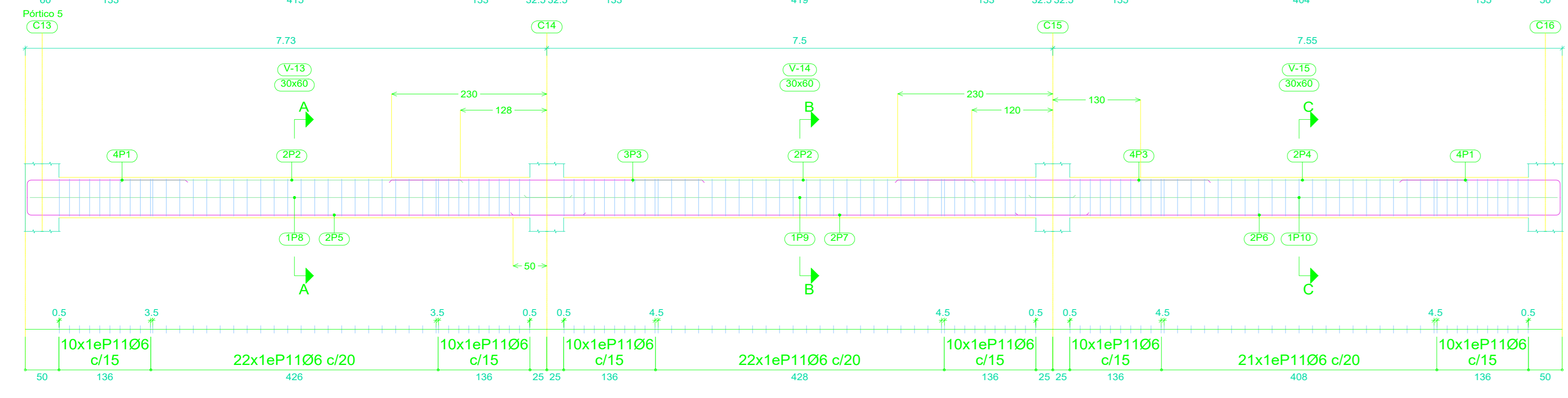
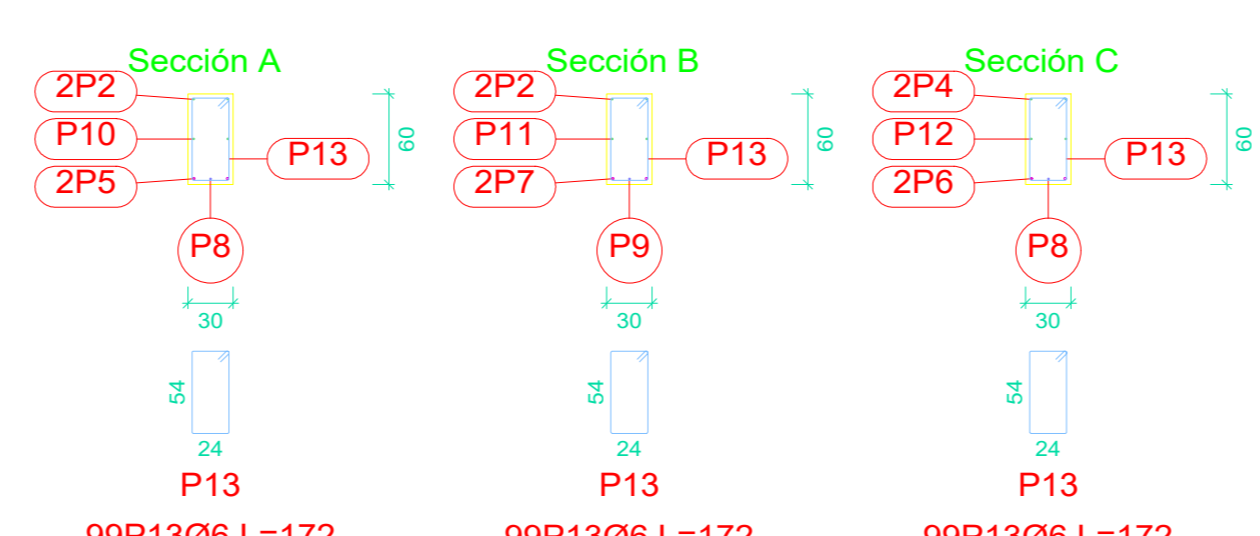
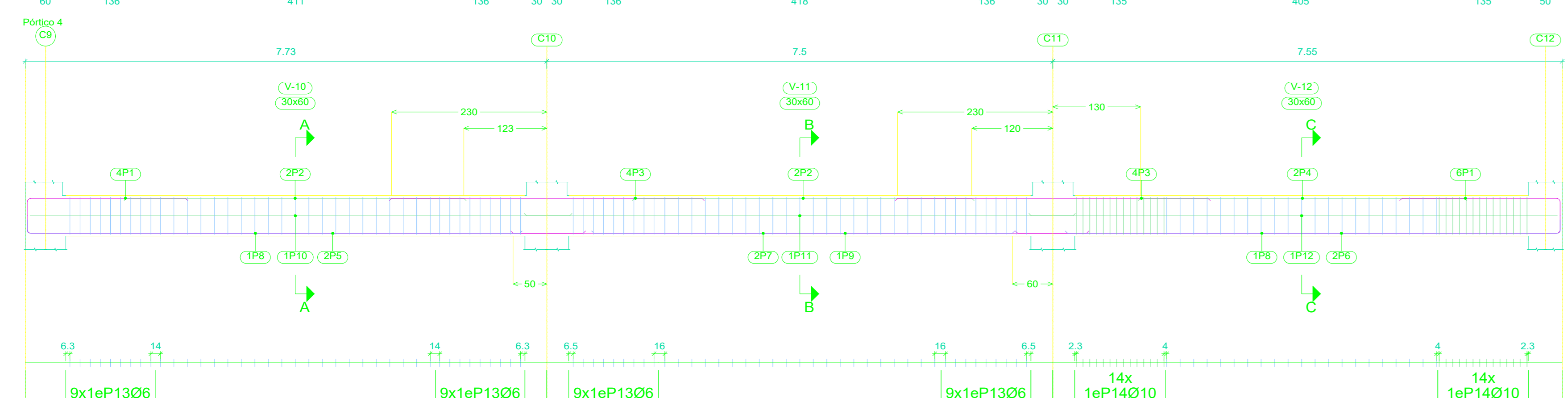
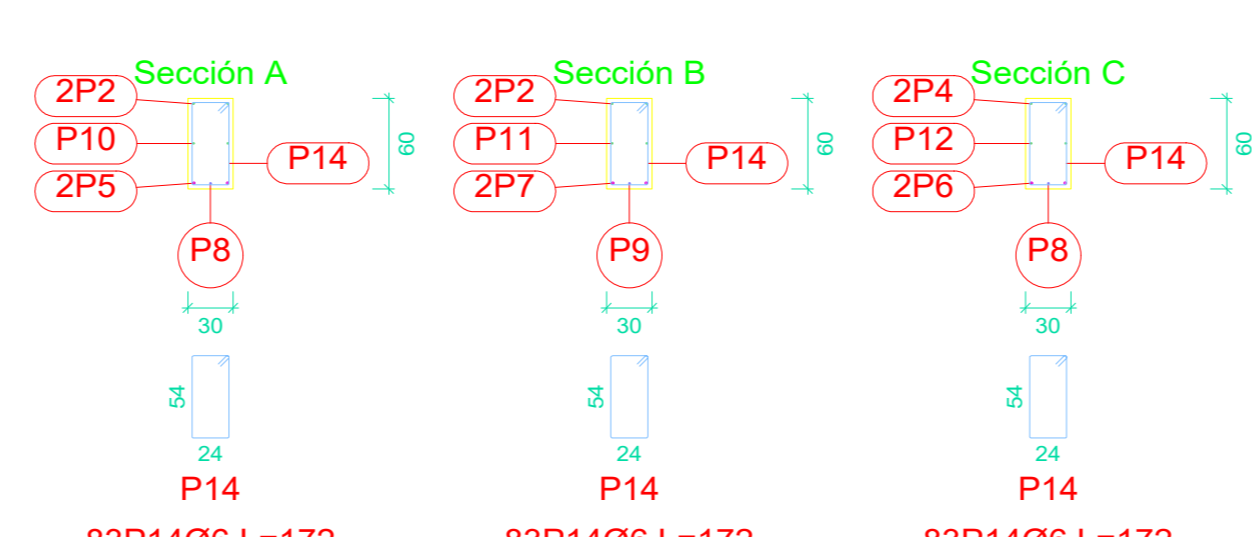
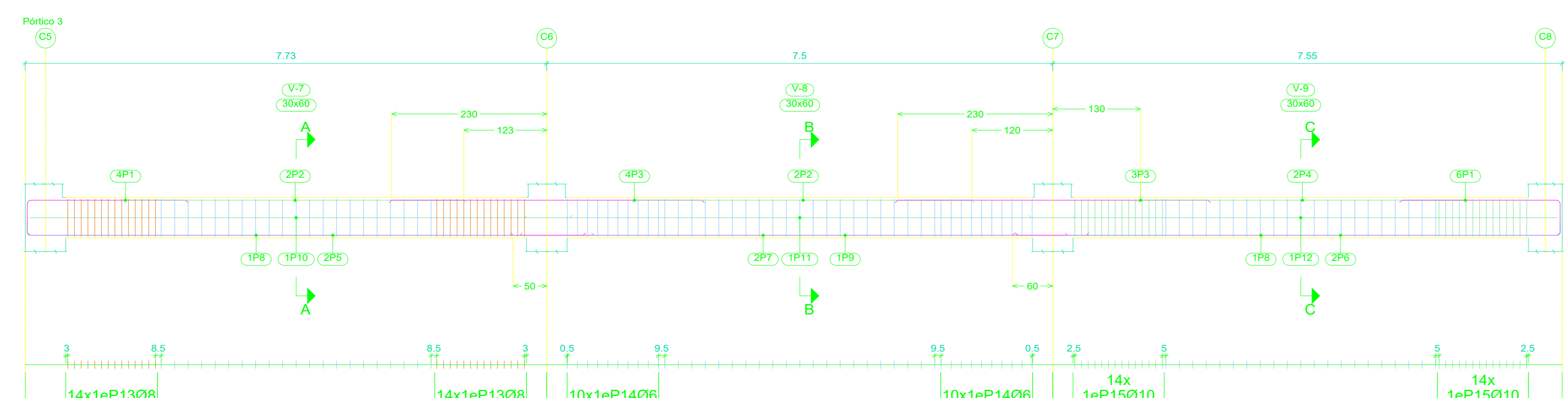
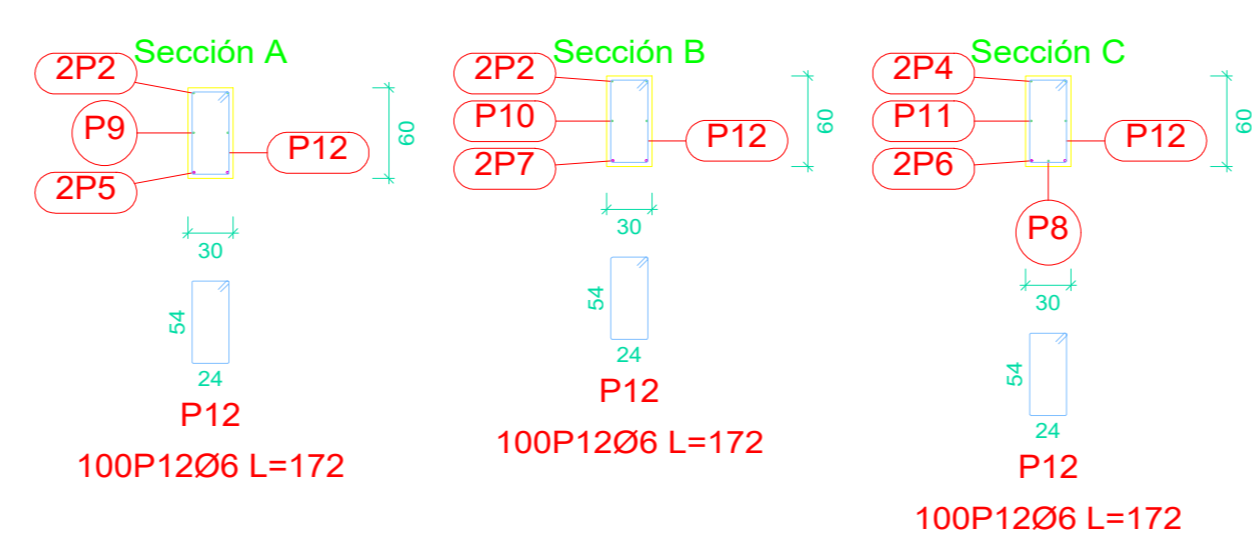
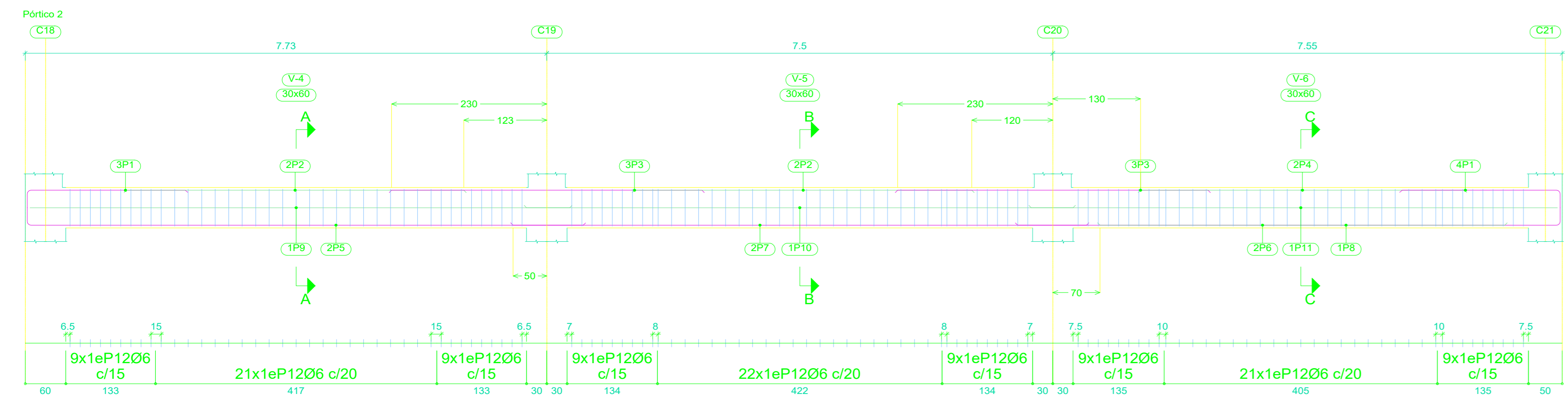
FECHA:  
 Marzo - 2023

ESCALA:  
 Indicada

LAMINA:  
 45/65



**PLANTA BAJA**  
**Despiece de vigas**  
**Hormigón: 25 Mpas**  
**Acero en barras: AH-500**  
**Acero en estribos: AH-500**  
**Escala pórticos 1:50**  
**Escala secciones 1:50**  
**Escala huecos 1:50**



Elemento	Pos.	Diám.	No.	Esquema (cm)	Long (cm)	Total (cm)	AH-500 (kg)
Pórtico 2	1	Ø16	7	234	260	1820	28.7
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	6	460	460	2760	43.6
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	804	830	1660	26.2
	7	Ø16	2	850	850	1700	26.8
	8	Ø10	1	600	600	600	3.7
	9	Ø10	2	804	820	1640	10.1
	10	Ø10	2	810	810	1620	10.0
	11	Ø10	2	784	800	1600	9.9
Total+10%:							273.9
Pórtico 4	1	Ø16	10	234	260	2600	41.0
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	8	460	460	3680	58.1
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	804	830	1660	26.2
	7	Ø16	2	850	850	1700	26.8
	8	Ø12	2	730	750	1500	13.3
	9	Ø12	1	620	620	620	5.5
	10	Ø10	2	804	820	1640	10.1
	11	Ø10	2	810	810	1620	10.0
	12	Ø10	2	784	800	1600	9.9
	13	Ø6	99	7	172	17028	37.8
	14	Ø10	28	12	180	5040	31.1
Total+10%:							346.3
Pórtico 6	1	Ø16	4	234	260	1040	16.4
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	3	1024	1050	3150	49.7
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	829	855	1710	27.0
	7	Ø16	2	860	860	1720	27.1
	8	Ø10	2	789	805	1610	9.9
	9	Ø10	2	810	810	1620	10.0
	10	Ø10	2	809	825	1650	10.2
	11	Ø6	125	7	172	21500	47.7
Total+10%:							292.7

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long (cm)	Total (cm)	AH-500 (kg)	
Pórtico 1	1	Ø16	8	234	260	2080	32.8	
	2	Ø10	4	500	500	2000	12.3	
	3	Ø16	4	460	460	3680	58.1	
	4	Ø10	2	480	480	960	5.9	
	5	Ø16	2	824	850	1700	26.8	
	6	Ø16	2	804	830	1660	26.2	
	7	Ø16	2	850	850	1700	26.8	
	8	Ø10	2	804	820	1640	10.1	
	9	Ø10	2	810	810	1620	10.0	
	10	Ø10	2	784	800	1600	9.9	
	11	Ø6	125	7	172	21500	47.7	
Total+10%:							293.3	
Pórtico 3	1	Ø16	10	234	260	2600	41.0	
	2	Ø10	4	500	500	2000	12.3	
	3	Ø16	7	460	460	3200	50.8	
	4	Ø10	2	480	480	960	5.9	
	5	Ø16	2	824	850	1700	26.8	
	6	Ø16	2	804	830	1660	26.2	
	7	Ø16	2	850	850	1700	26.8	
	8	Ø12	2	730	750	1500	13.3	
	9	Ø12	1	620	620	620	5.5	
	10	Ø10	2	804	820	1640	10.1	
	11	Ø10	2	810	810	1620	10.0	
	12	Ø10	2	784	800	1600	9.9	
	13	Ø8	28	10	176	4928	19.4	
	14	Ø6	83	7	172	14276	31.7	
	15	Ø10	28	12	180	5040	31.1	
Total+10%:							352.9	
Pórtico 5	1	Ø16	8	234	260	2080	32.8	
	2	Ø10	4	500	500	2000	12.3	
	3	Ø16	7	460	460	3200	50.8	
	4	Ø10	2	480	480	960	5.9	
	5	Ø16	2	824	850	1700	26.8	
	6	Ø16	2	804	830	1660	26.2	
	7	Ø16	2	850	850	1700	26.8	
	8	Ø10	2	804	820	1640	10.1	
	9	Ø10	2	810	810	1620	10.0	
	10	Ø10	2	784	800	1600	9.9	
	11	Ø6	125	7	172	21500	47.7	
	Total+10%:							285.2
	Pórtico 7	1	Ø16	5	234	260	1300	20.5
		2	Ø10	4	500	500	2000	12.3
3		Ø16	4	460	460	1840	29.0	
4		Ø16	3	1024	1050	3150	49.7	
5		Ø12	1	420	420	420	3.7	
6		Ø16	2	824	850	1700	26.8	
7		Ø16	2	829	855	1710	27.0	
8		Ø16	2	860	860	1720	27.1	
9		Ø12	1	620	620	620	5.5	
10		Ø10	2	794	810	1620	10.0	
11		Ø10	2	810	810	1620	10.0	
12		Ø10	2	809	825	1650	10.2	
13		Ø10	2	809	825	1650	10.2	
14		Ø6	143	7	172	24596	54.6	
Total+10%:							320.9	



UNIVERSIDAD:  
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UNIVERSITARIO:  
**MARCELO CRUZ CAIHUARA**

PROYECTO:  
**HOSPITAL DE SEGUNDO NIVEL YACUIBA**

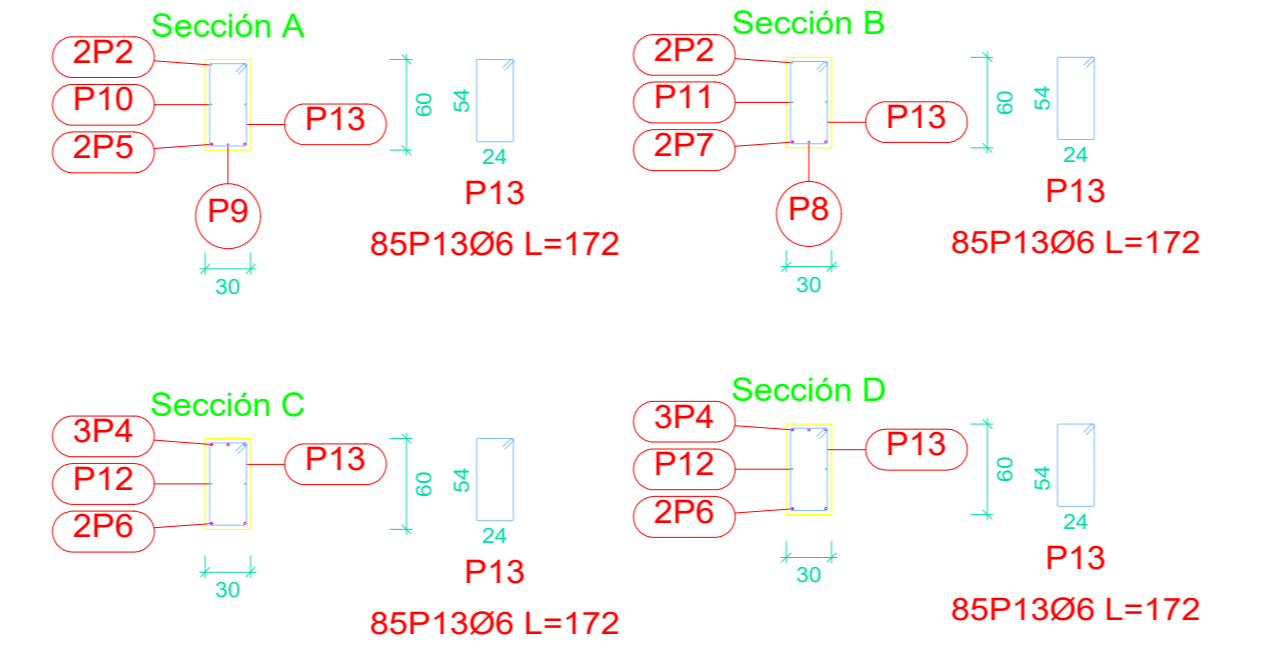
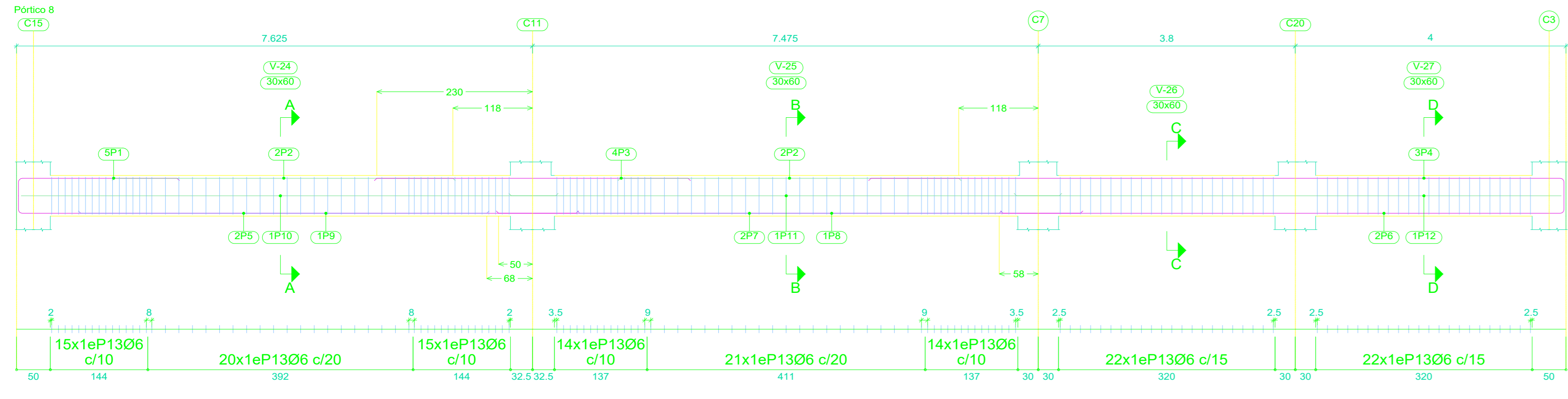
CARACTER:  
**DESPIECE DE VIGAS MÓDULO 4**

FECHA:  
**Marzo - 2023**

ESCALA:  
**Indicada**

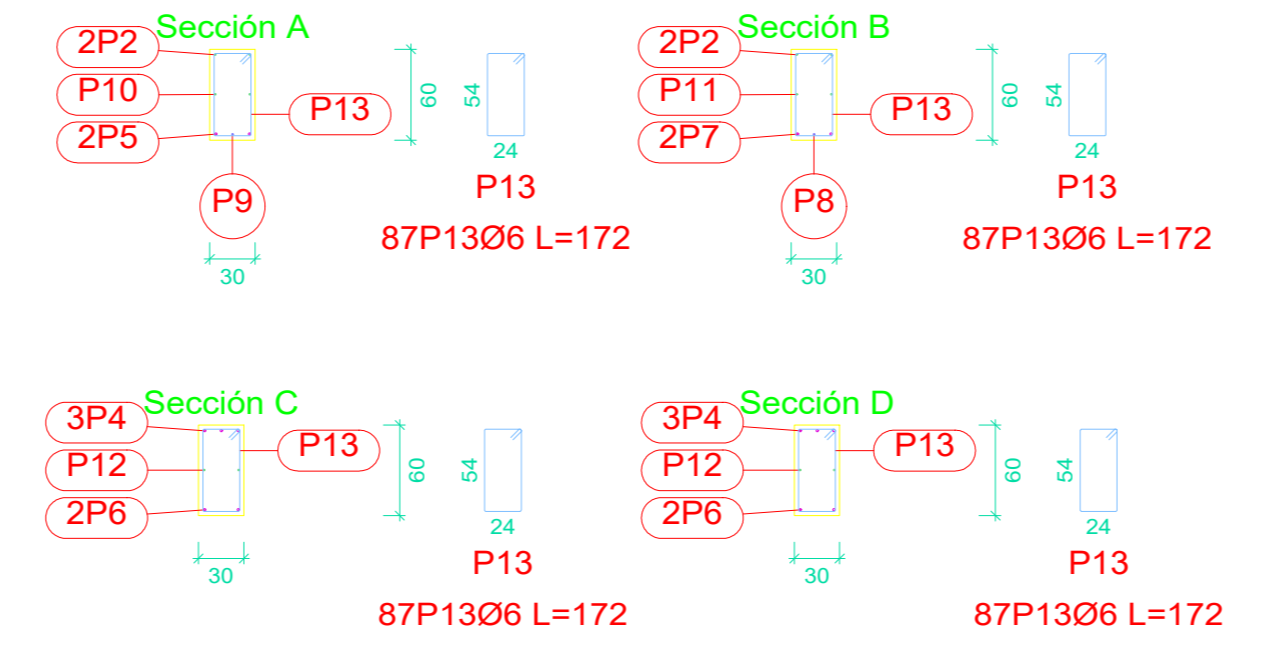
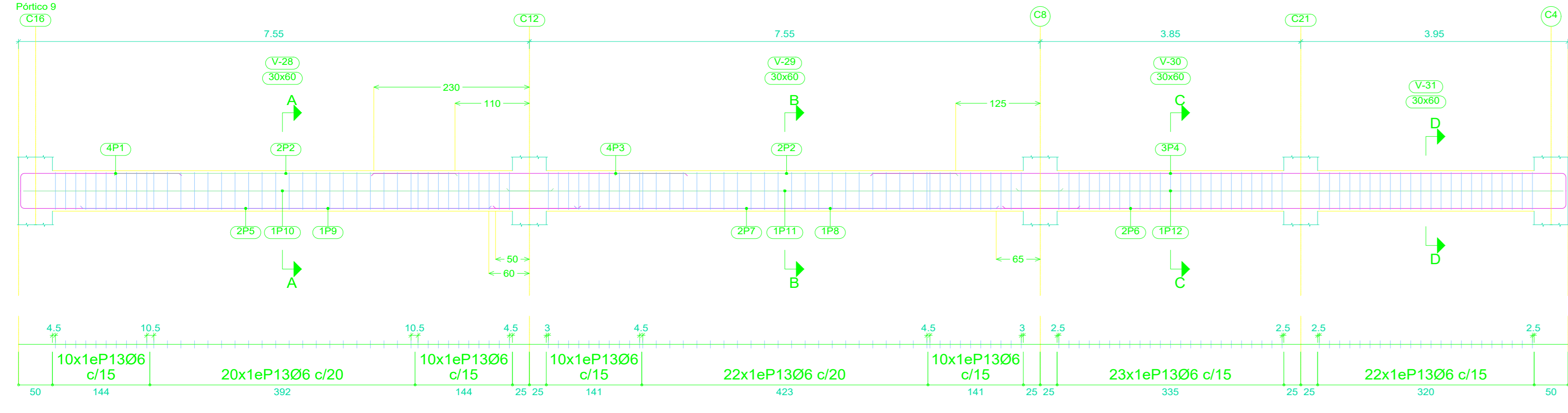
LAMINA:  
**46/65**





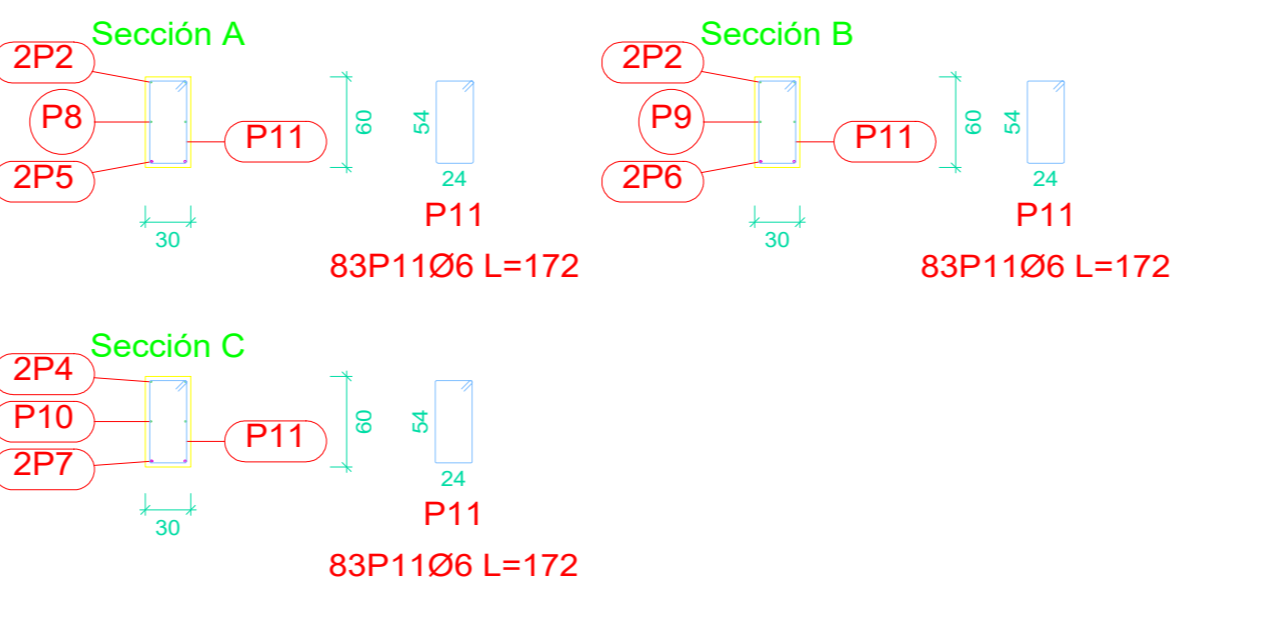
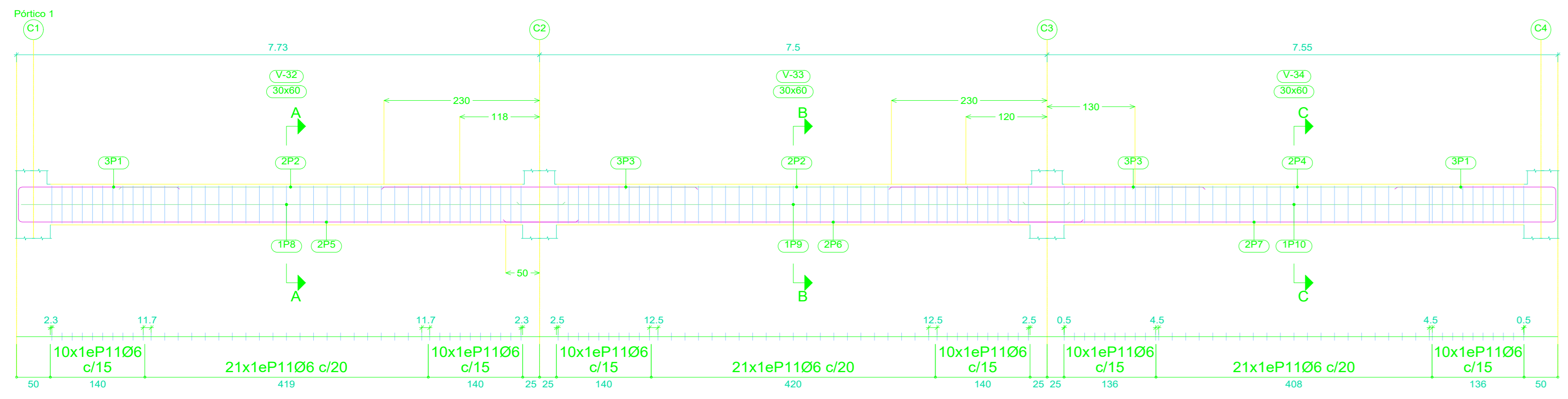
**PLANTA BAJA**  
 Despiece de vigas  
 Hormigón: 25 Mpas  
 Acero en barras: AH-500  
 Escala pórticos 1:50  
 Escala secciones 1:50  
 Escala huecos 1:50

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 8	1	Ø16	5	234	260	1300	20.5
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	3	1024	1050	3150	49.7
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	829	855	1710	27.0
	7	Ø16	2	860	860	1720	27.1
	8	Ø12	1	620	620	620	5.5
	9	Ø12	1	600	600	600	5.3
	10	Ø10	2	794	810	1620	10.0
	11	Ø10	2	810	810	1620	10.0
	12	Ø10	2	809	825	1650	10.2
	13	Ø6	143	7	24	172	24596
Total+10%:							316.8



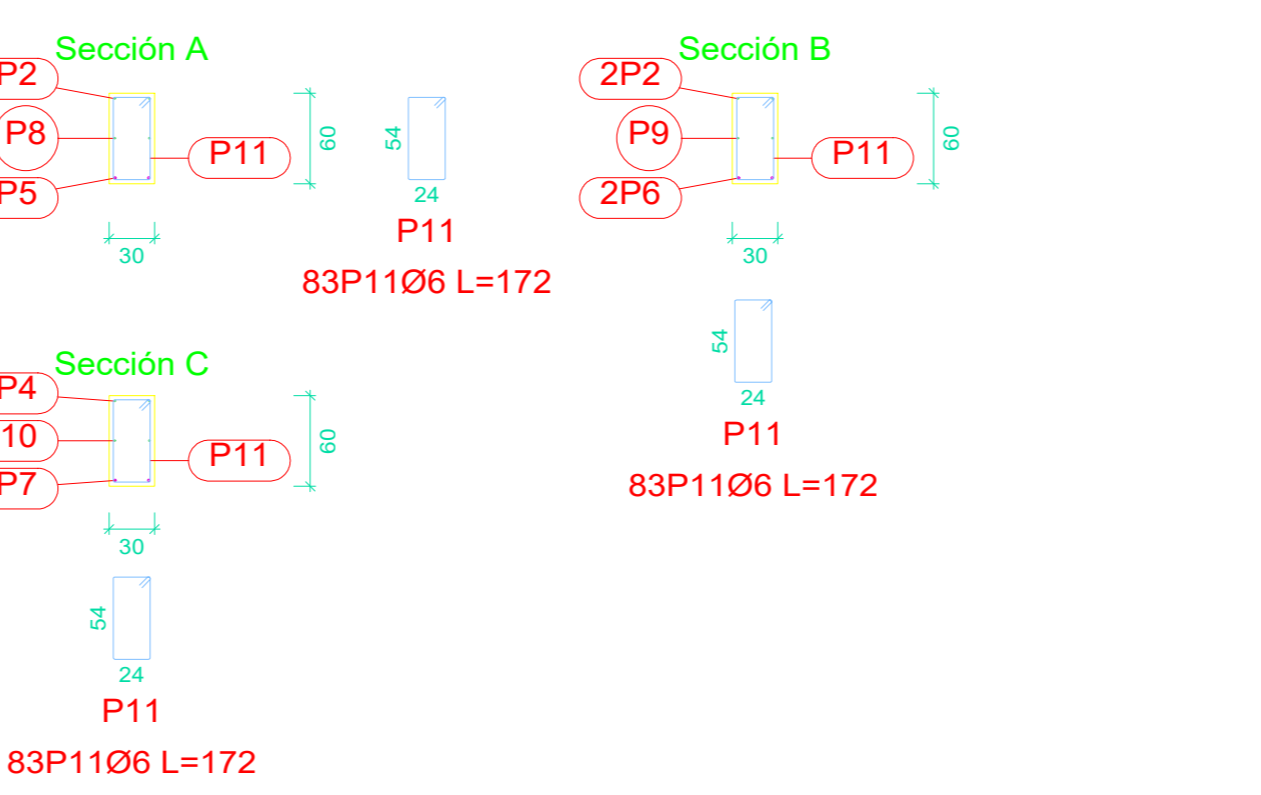
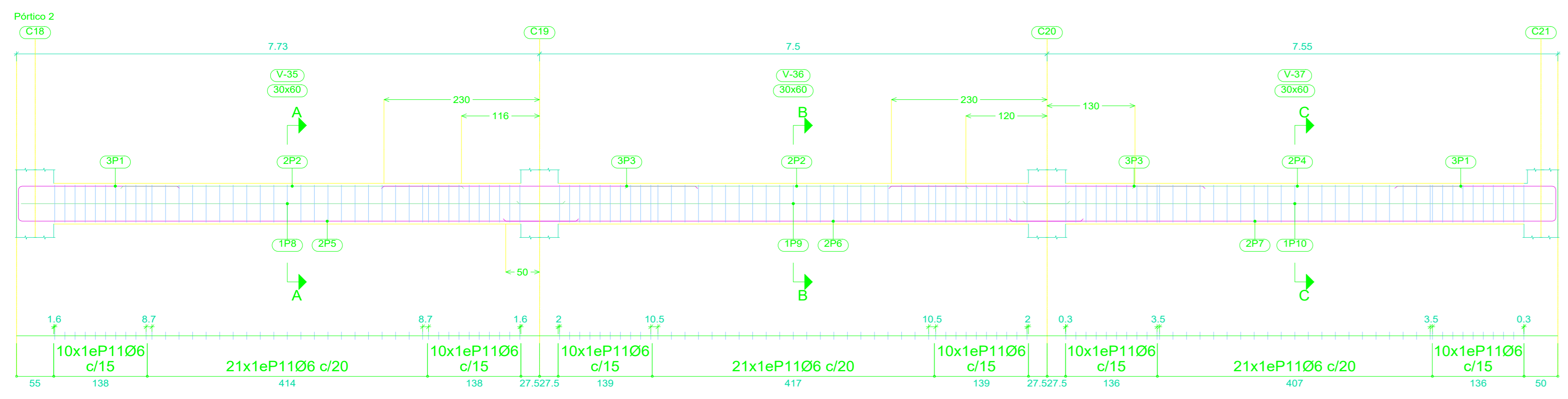
Pórtico 9	1	Ø16	4	234	260	1040	16.4
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	3	1024	1050	3150	49.7
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	829	855	1710	27.0
	7	Ø16	2	860	860	1720	27.1
	8	Ø12	1	620	620	620	5.5
	9	Ø12	1	600	600	600	5.3
	10	Ø10	2	784	800	1600	9.9
	11	Ø10	2	815	815	1630	10.0
	12	Ø10	2	809	825	1650	10.2
	13	Ø6	127	7	24	172	21844
Total+10%:							305.5

**PRIMERA PLANTA**  
 Despiece de vigas  
 Hormigón: 25 Mpas  
 Acero en estribos: AH-500  
 Escala pórticos 1:50  
 Escala secciones 1:50  
 Escala huecos 1:50



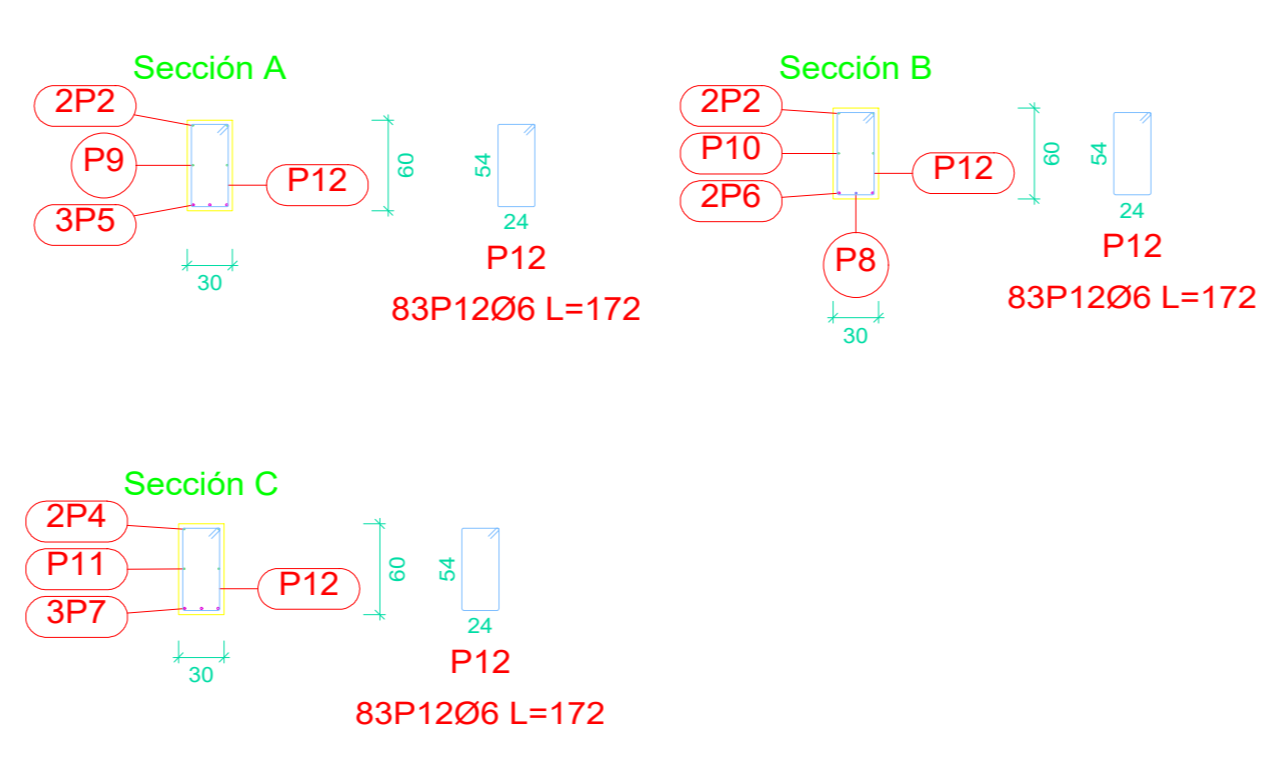
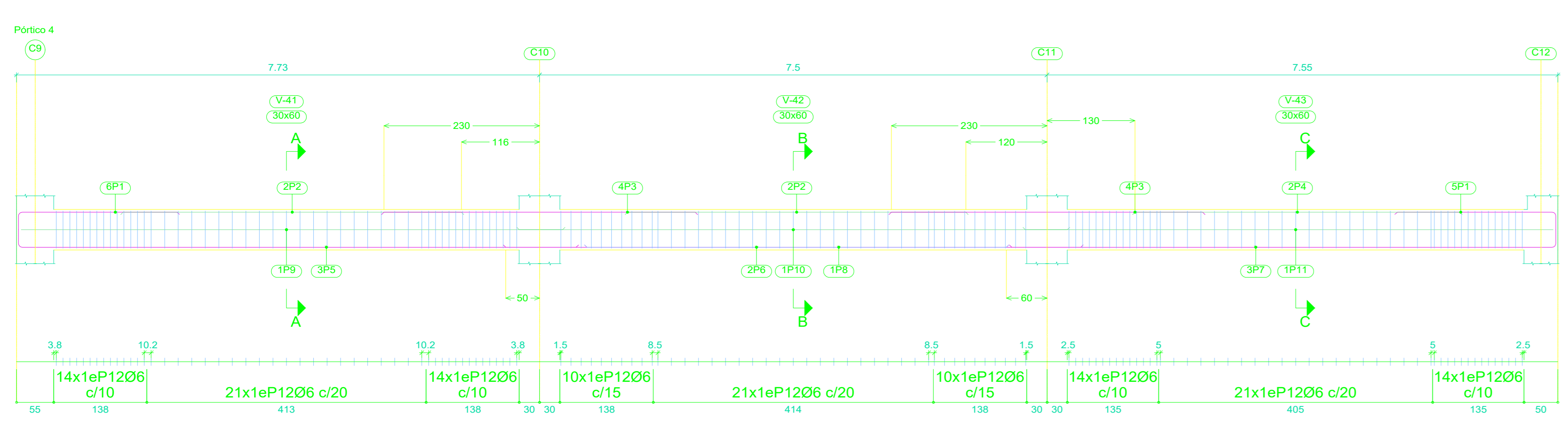
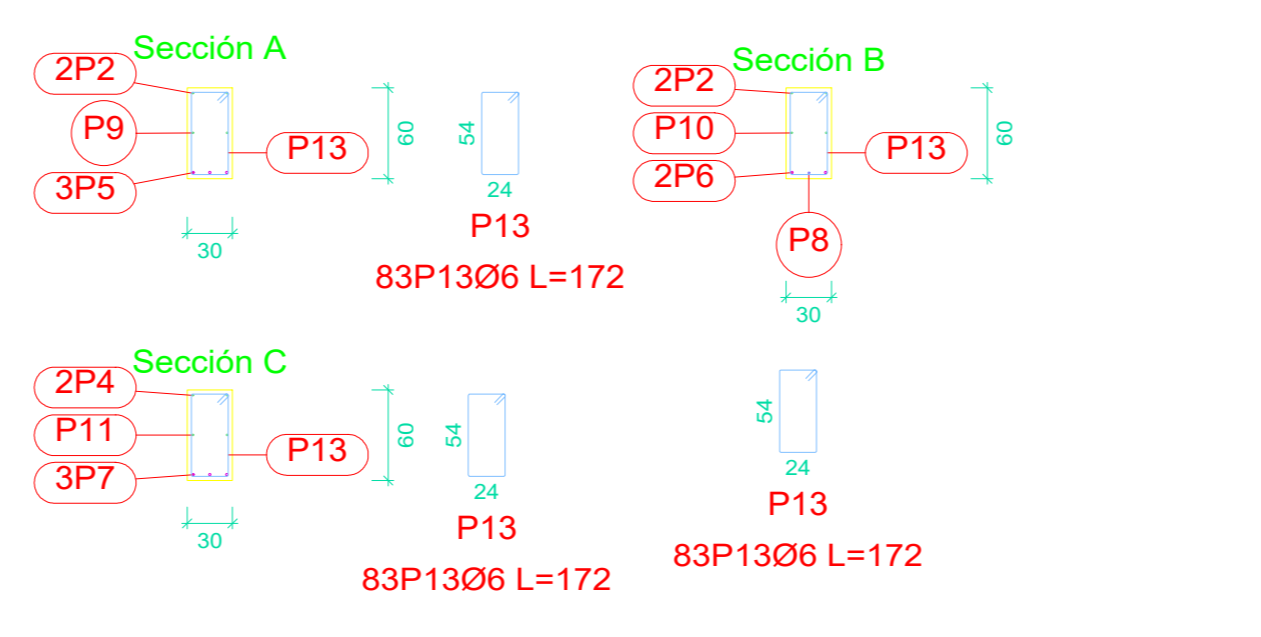
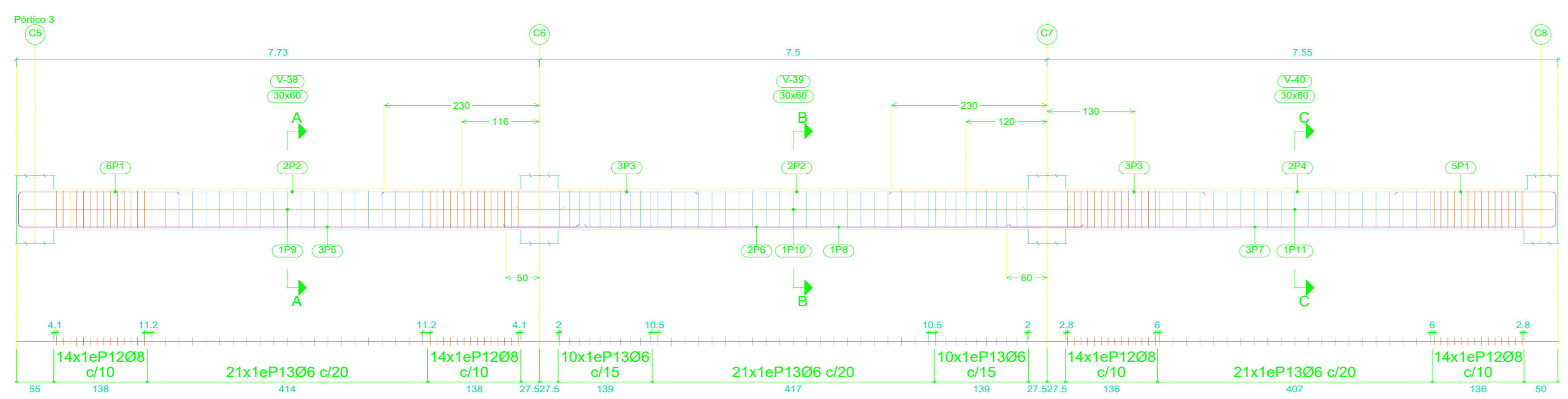
Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 1	1	Ø16	6	234	260	1560	24.6
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	6	460	460	2760	43.6
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	2	804	830	1660	26.2
	8	Ø10	2	804	820	1640	10.1
	9	Ø10	2	810	810	1620	10.0
	10	Ø10	2	784	800	1600	9.9
	11	Ø6	123	7	24	172	21156
Total+10%:							267.4

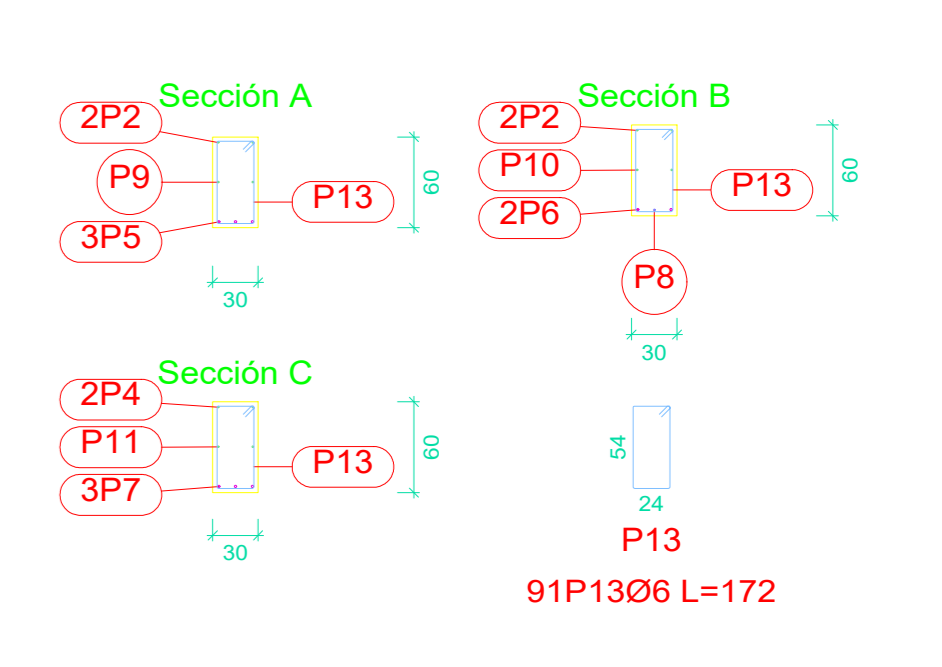
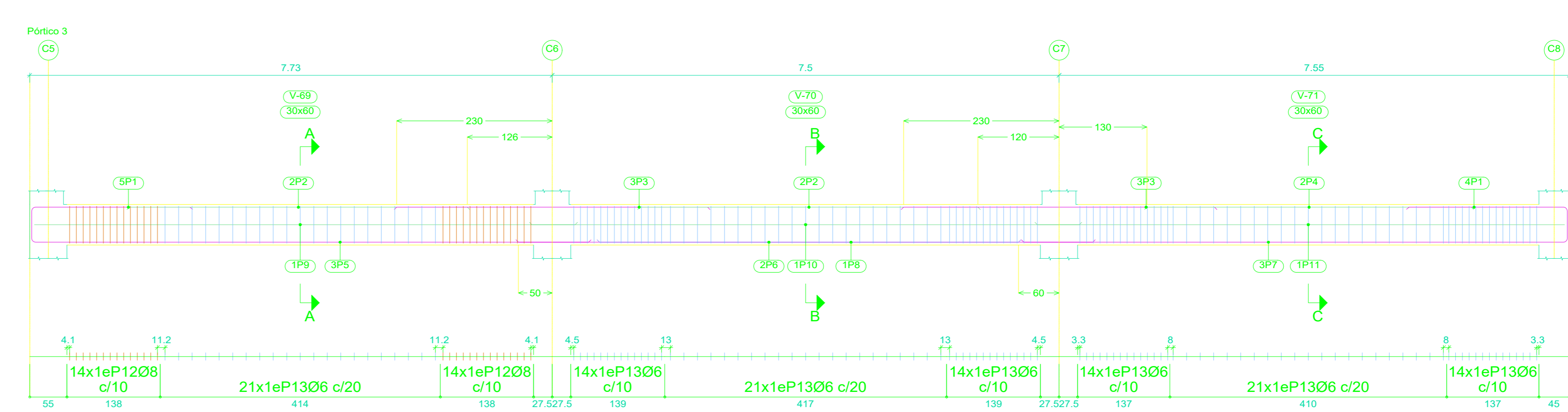
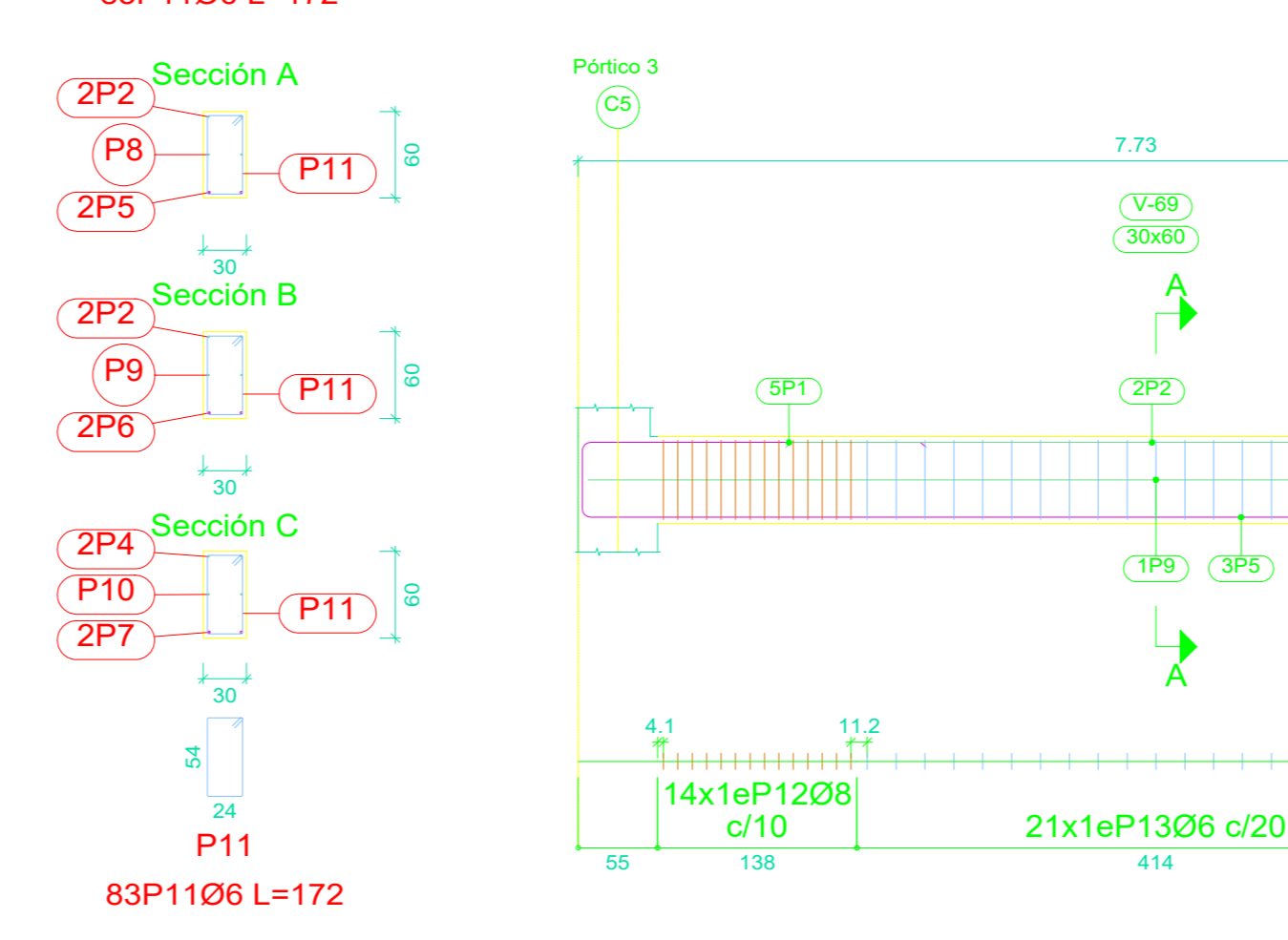
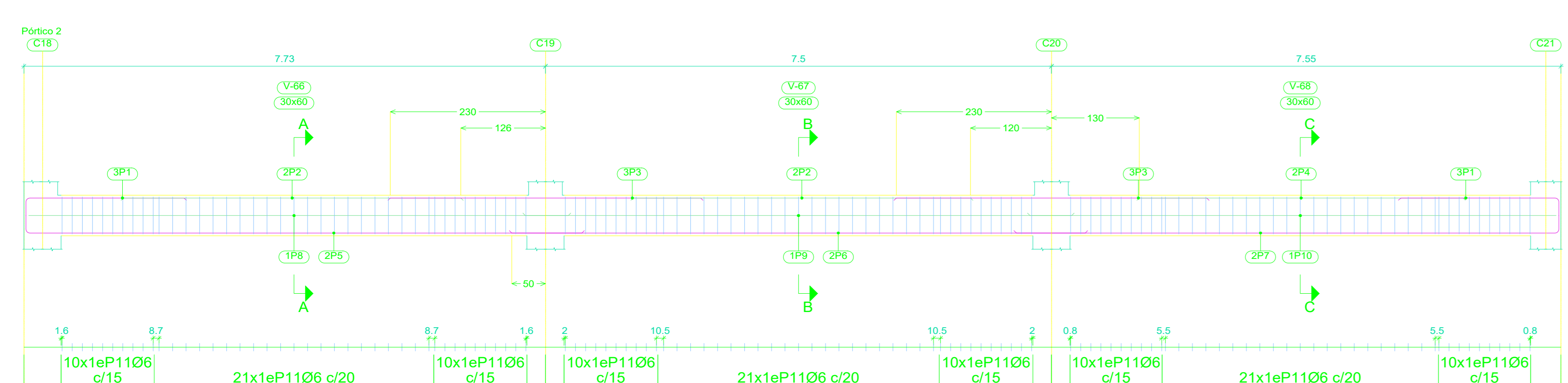
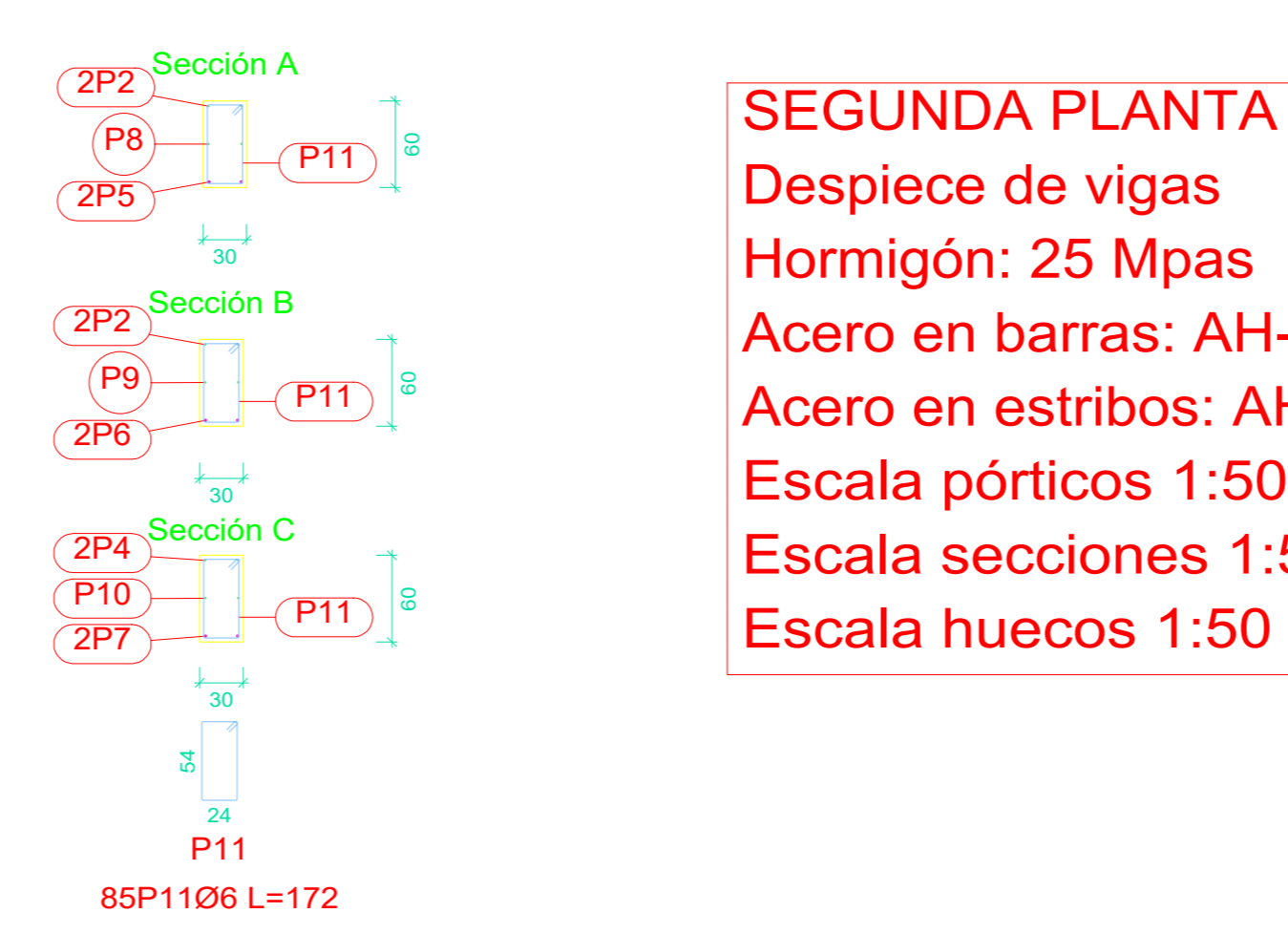
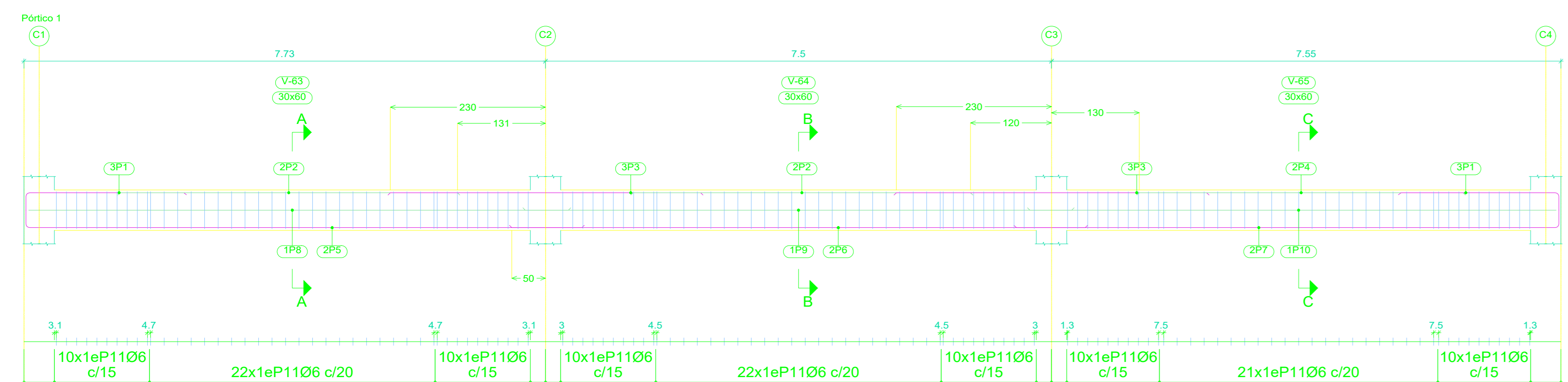
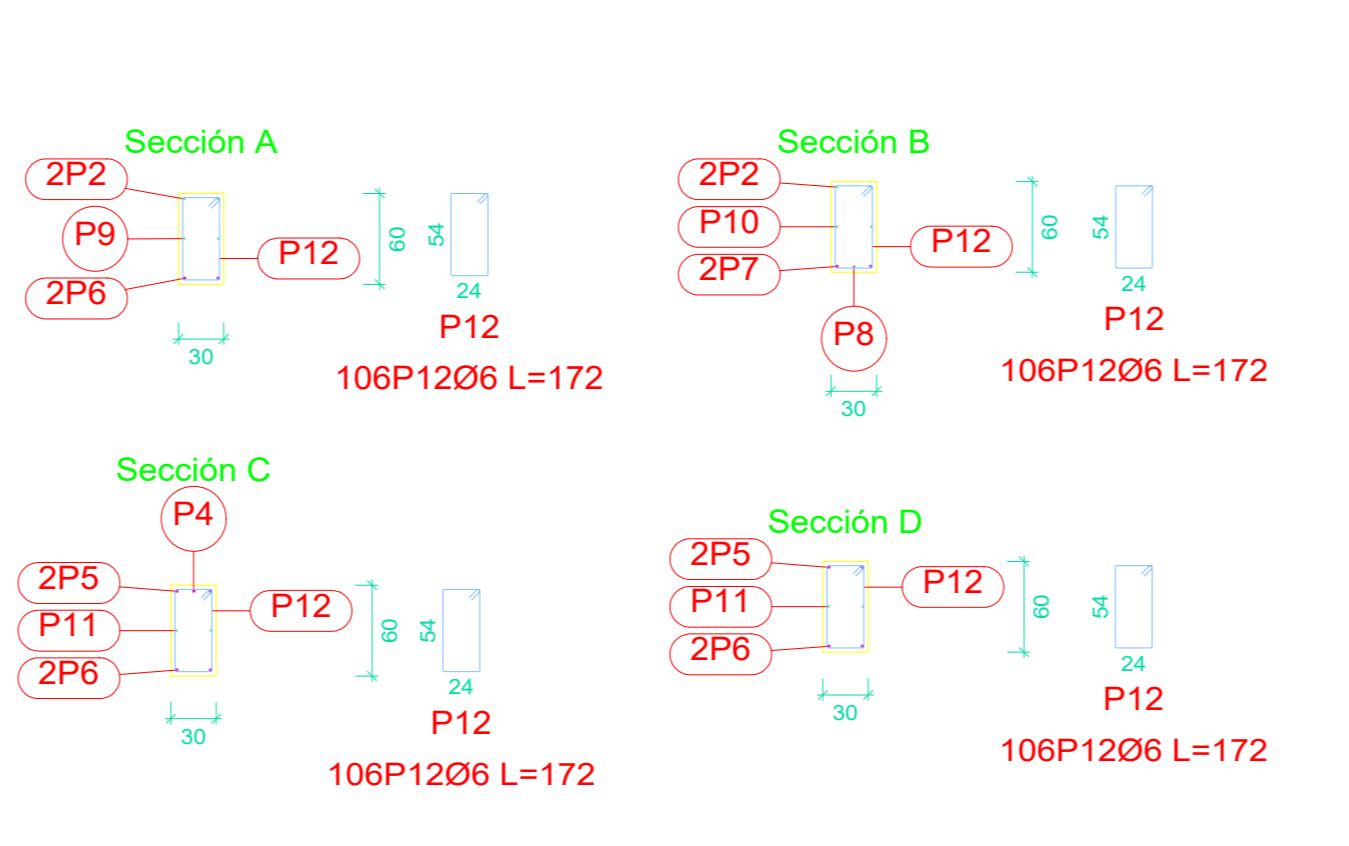
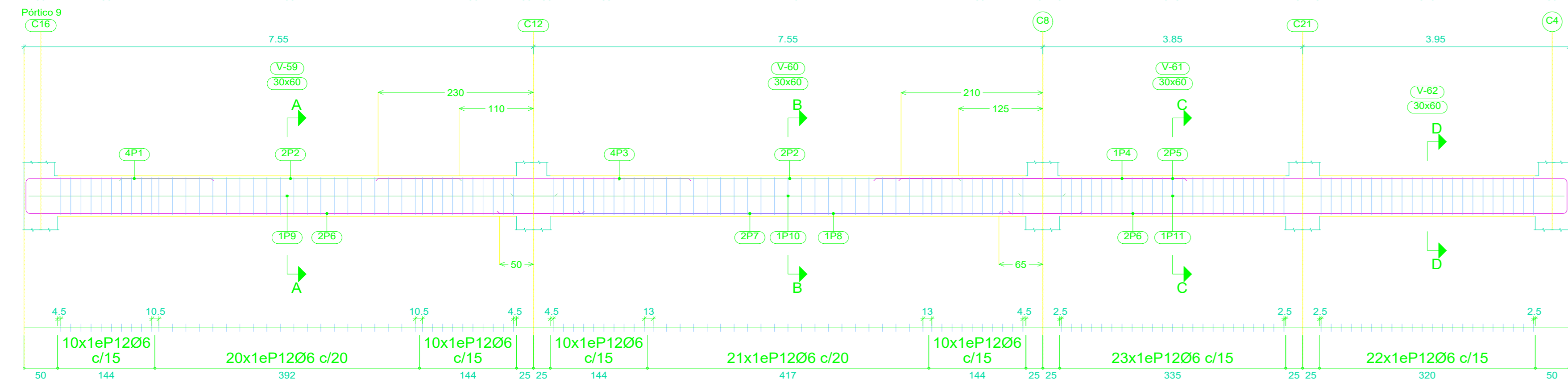
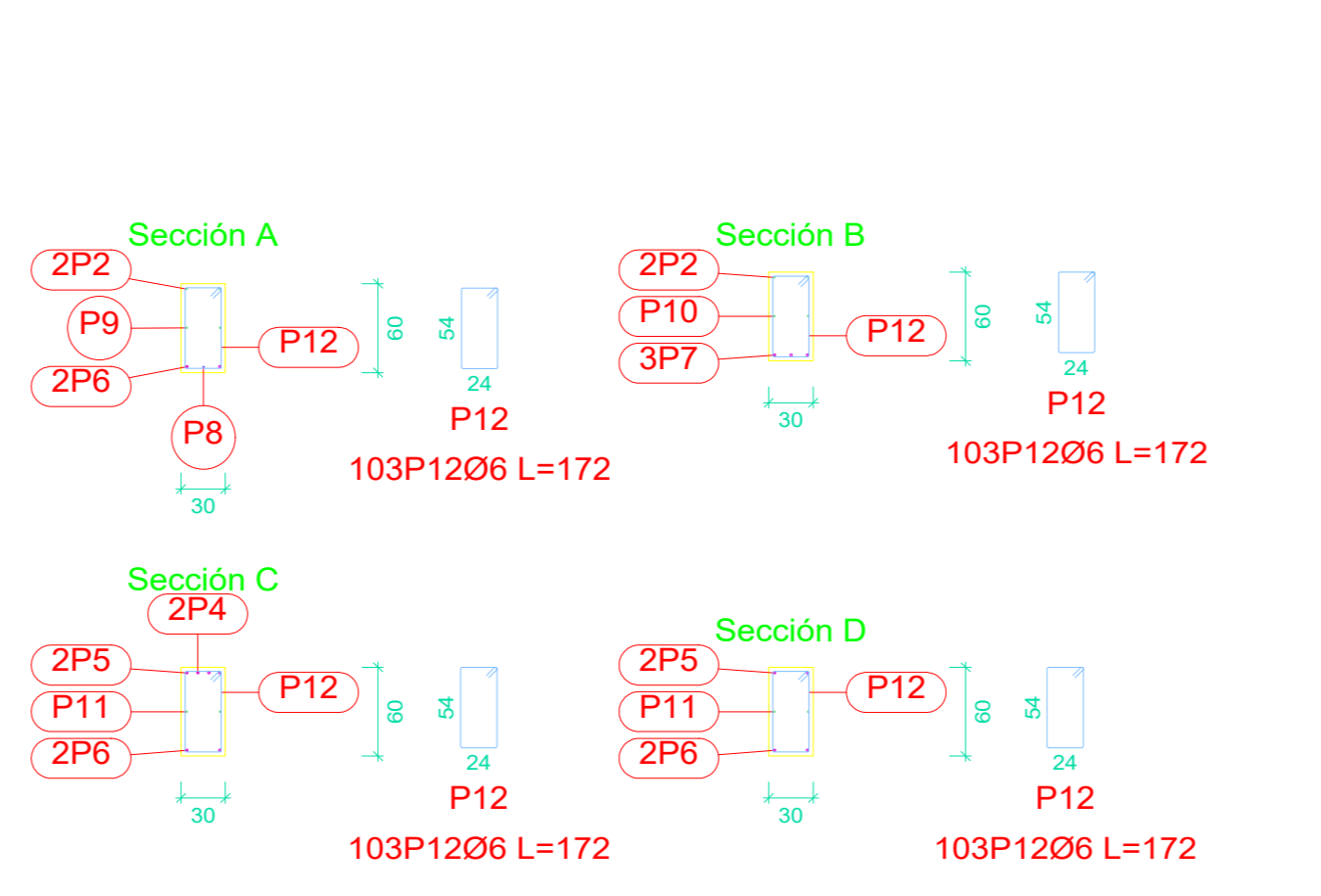
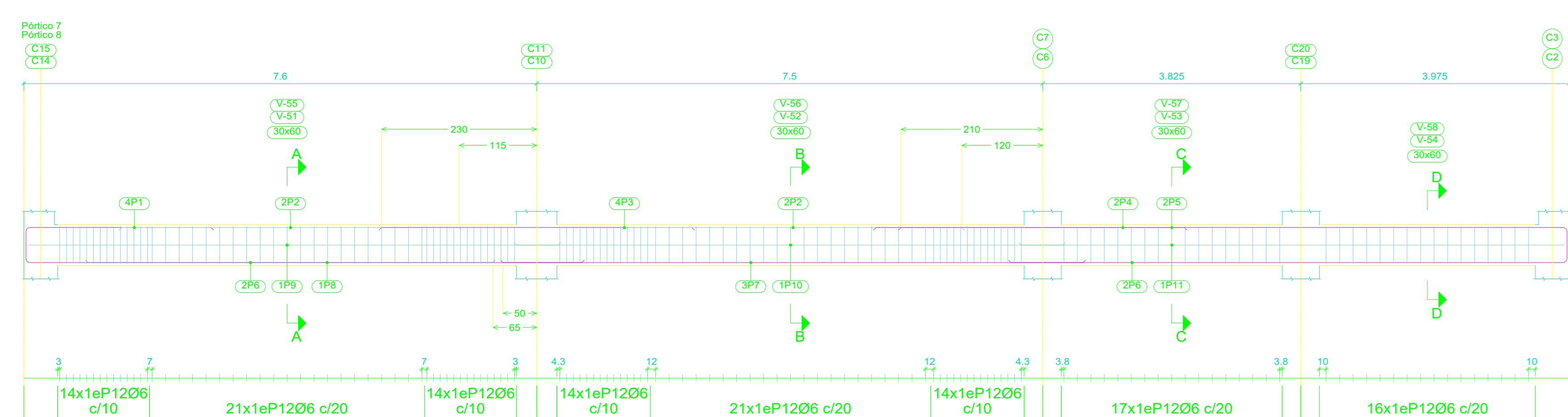
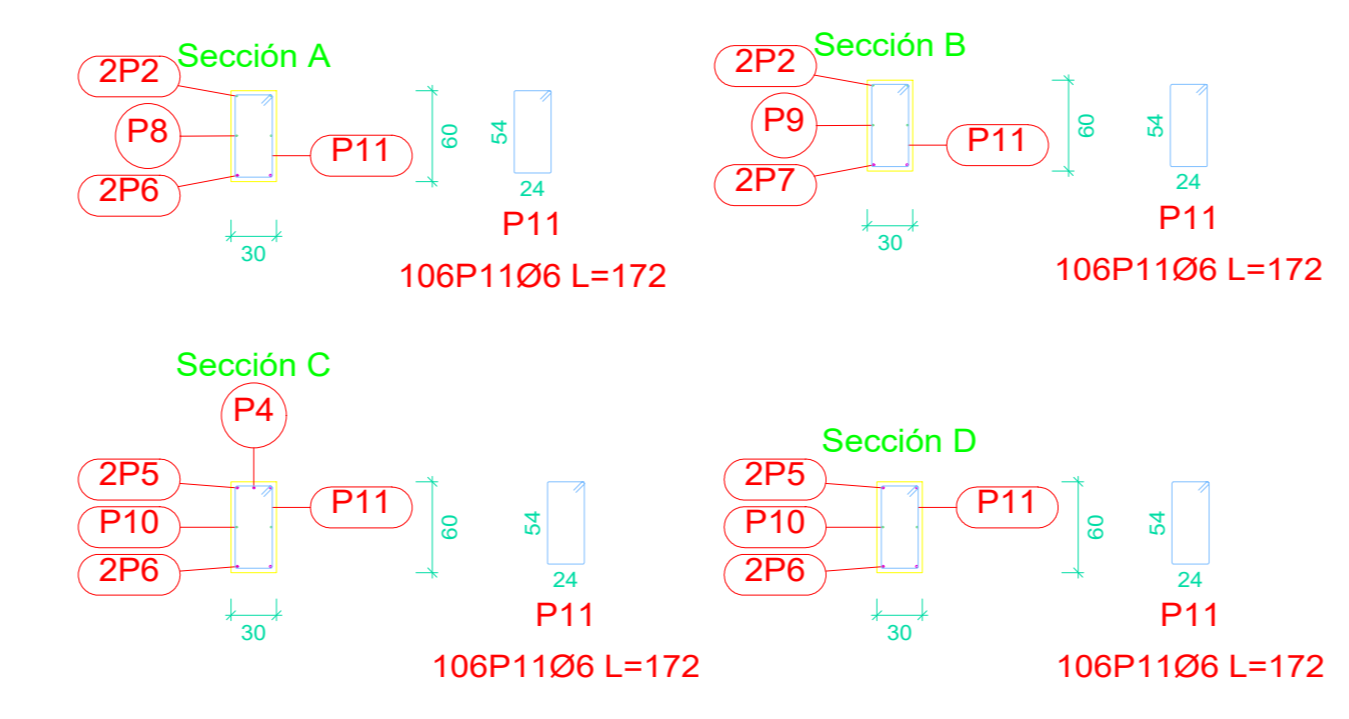
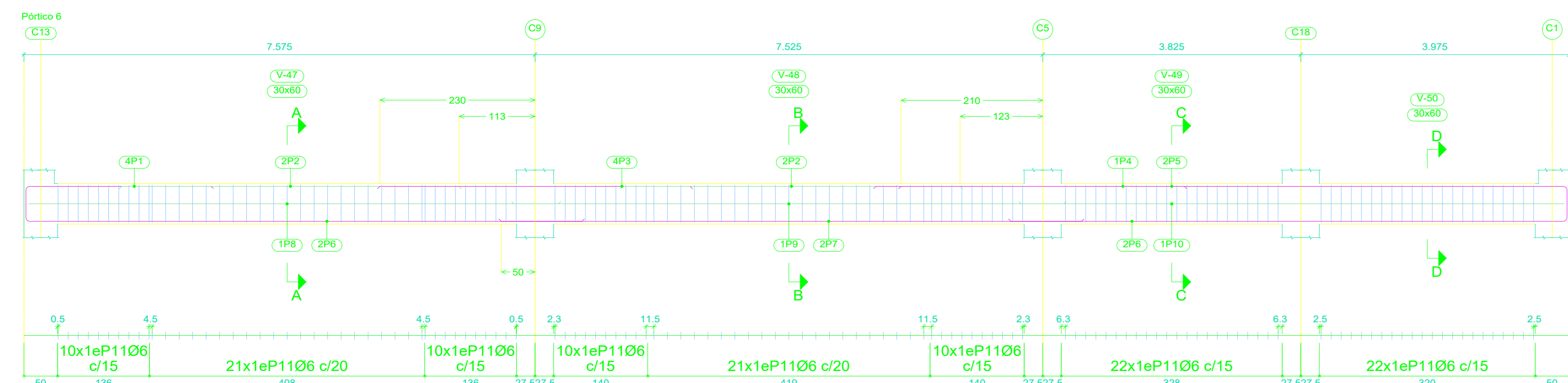
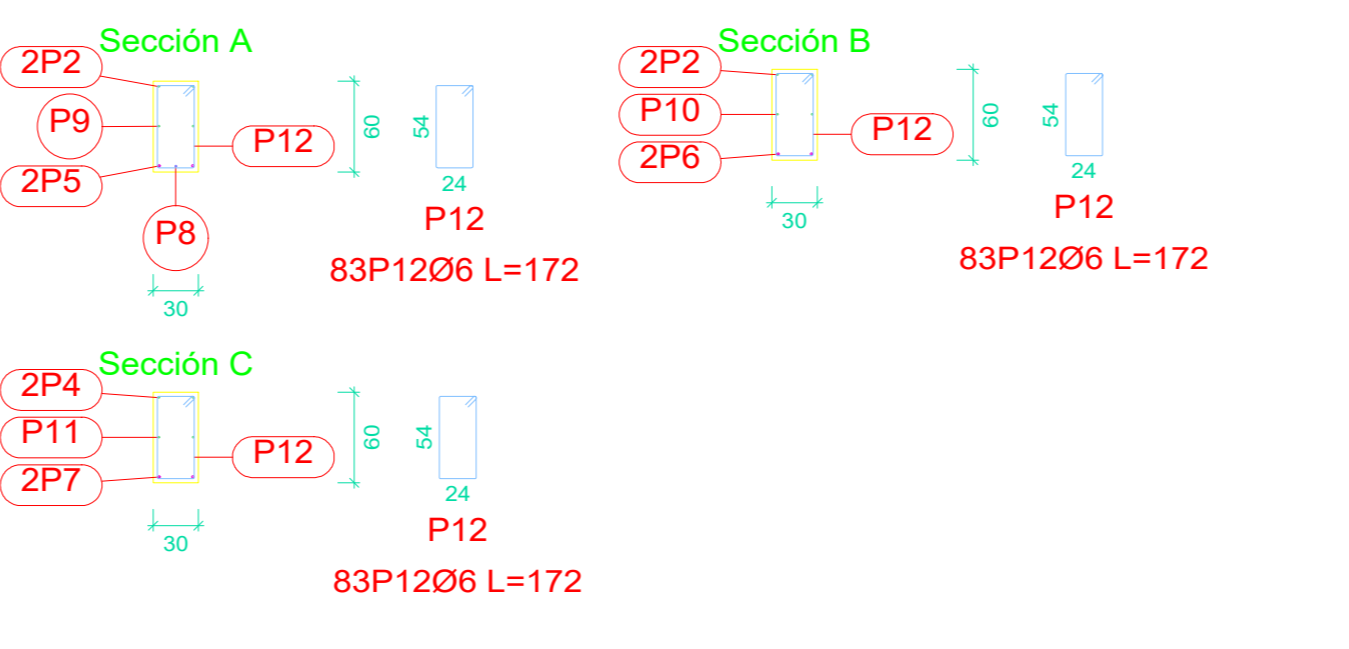
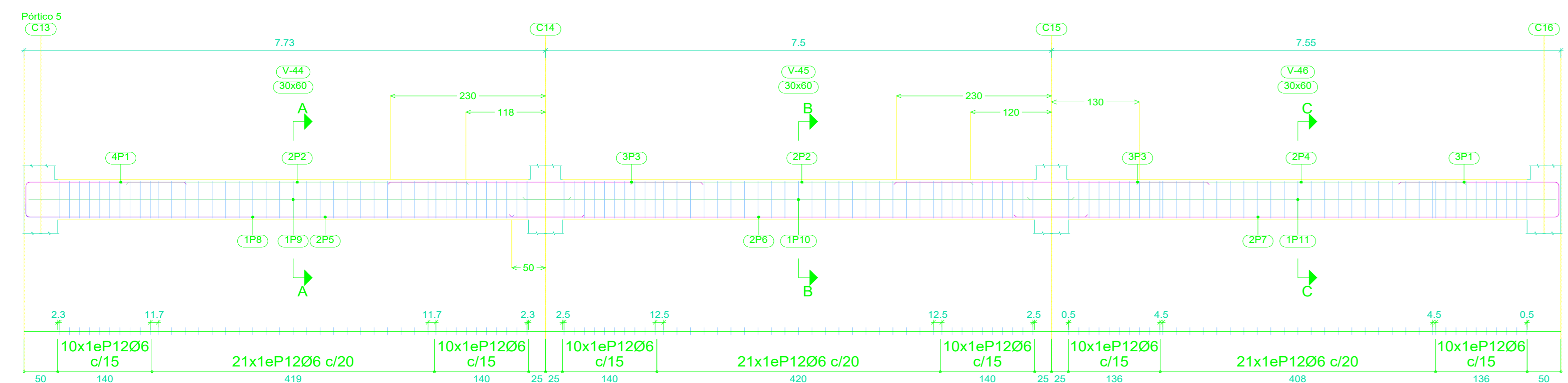
Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 2	1	Ø16	6	234	260	1560	24.6
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	6	460	460	2760	43.6
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	2	804	830	1660	26.2
	8	Ø10	2	804	820	1640	10.1
	9	Ø10	2	810	810	1620	10.0
	10	Ø10	2	784	800	1600	9.9
	11	Ø6	123	7	24	172	21156
Total+10%:							267.4



Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)	
Pórtico 3	1	Ø16	11	234	260	2860	45.1	
	2	Ø10	4	500	500	2000	12.3	
	3	Ø16	6	460	460	2760	43.6	
	4	Ø10	2	480	480	960	5.9	
	5	Ø16	3	824	850	2550	40.2	
	6	Ø16	2	850	850	1700	26.8	
	7	Ø16	3	804	830	2490	39.3	
	8	Ø12	1	620	620	620	5.5	
	9	Ø10	2	804	820	1640	10.1	
	10	Ø10	2	810	810	1620	10.0	
	11	Ø10	2	784	800	1600	9.9	
	12	Ø8	56	10	24	176	9856	38.9
	13	Ø6	83	7	24	172	14276	31.7
Total+10%:							351.2	

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 4	1	Ø16	11	234	260	2860	45.1
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	8	460	460	3680	58.1
	4	Ø10	2	480	480	960	5.9
	5	Ø16	3	824	850	2550	40.2
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	3	804	830	2490	39.3
	8	Ø12	1	620	620	620	5.5
	9	Ø10	2	804	820	1640	10.1
	10	Ø10	2	810	810	1620	10.0
	11	Ø10	2	784	800	1600	9.9
	12	Ø6	139	7	24	172	23908
Total+10%:							347.9





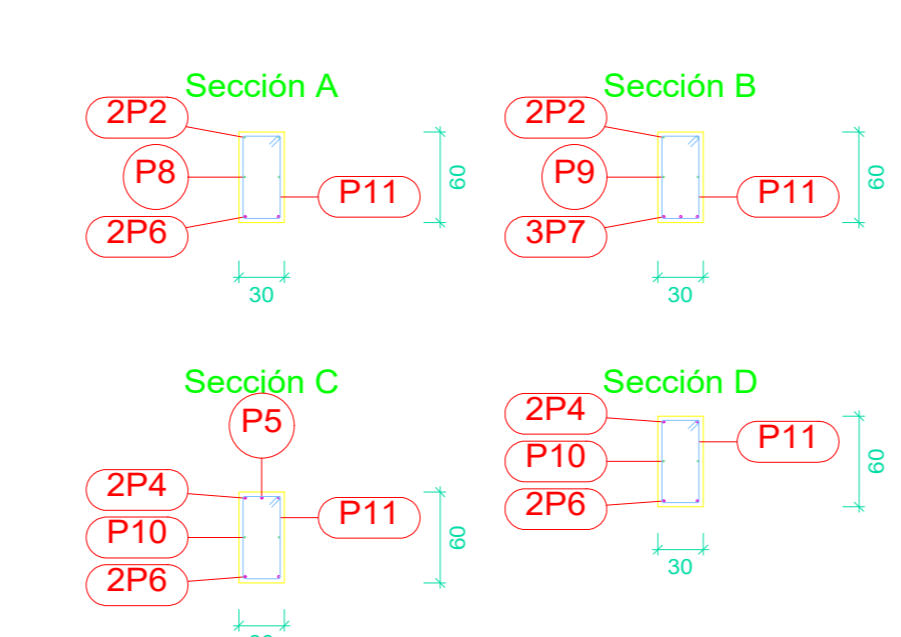
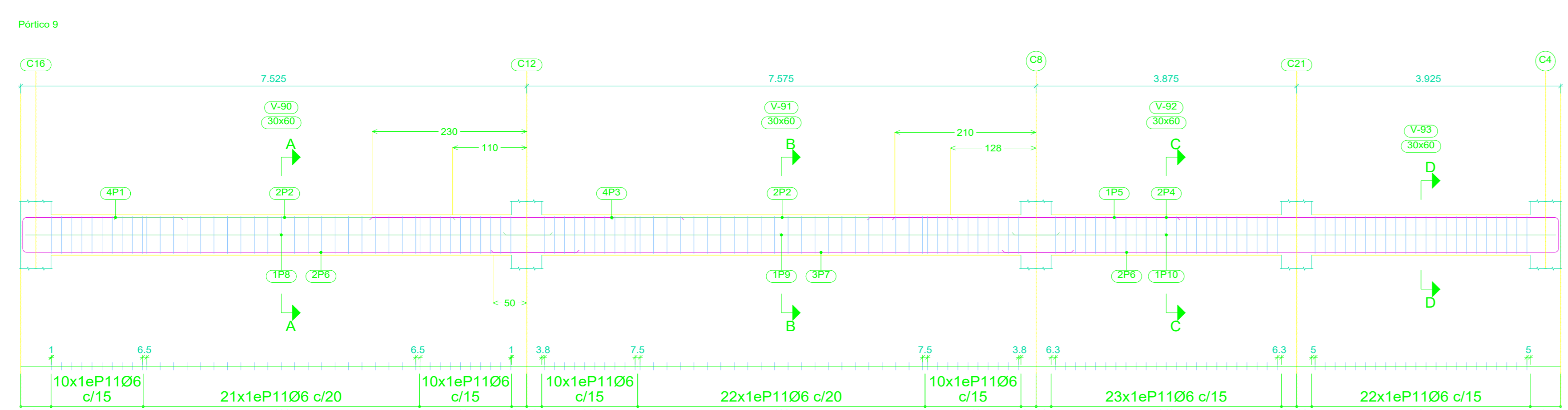
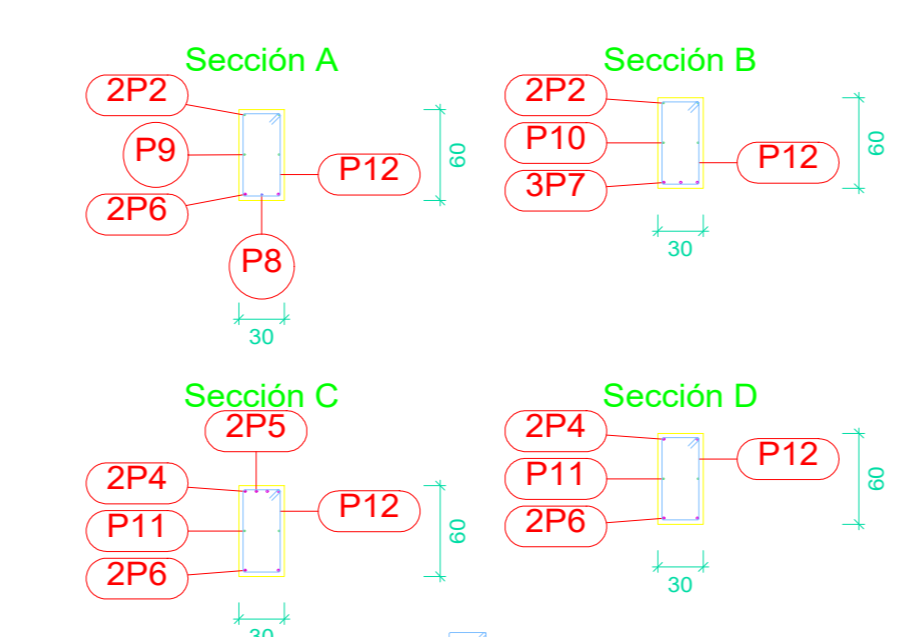
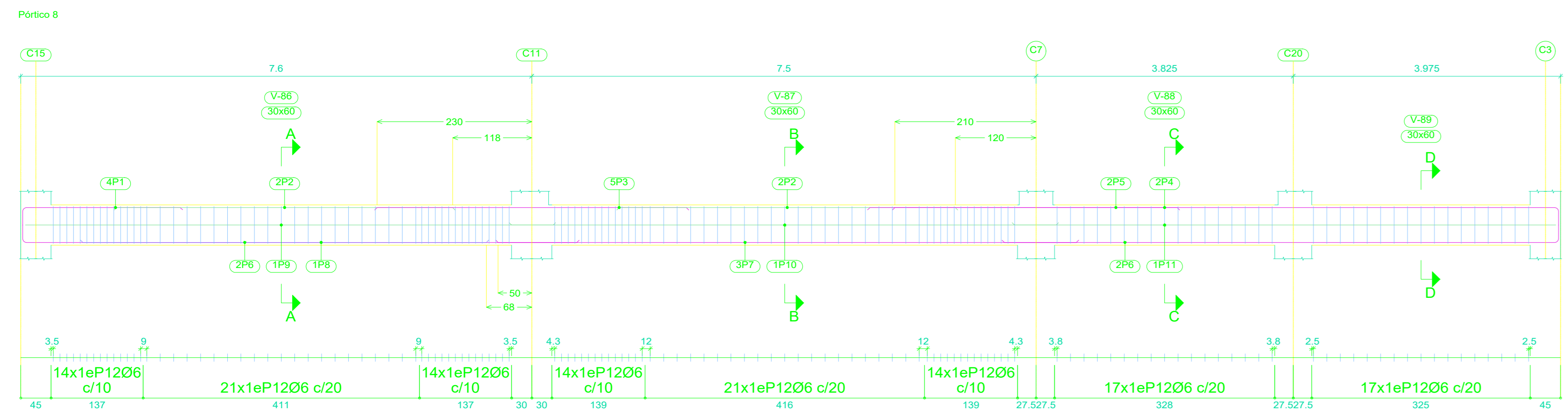
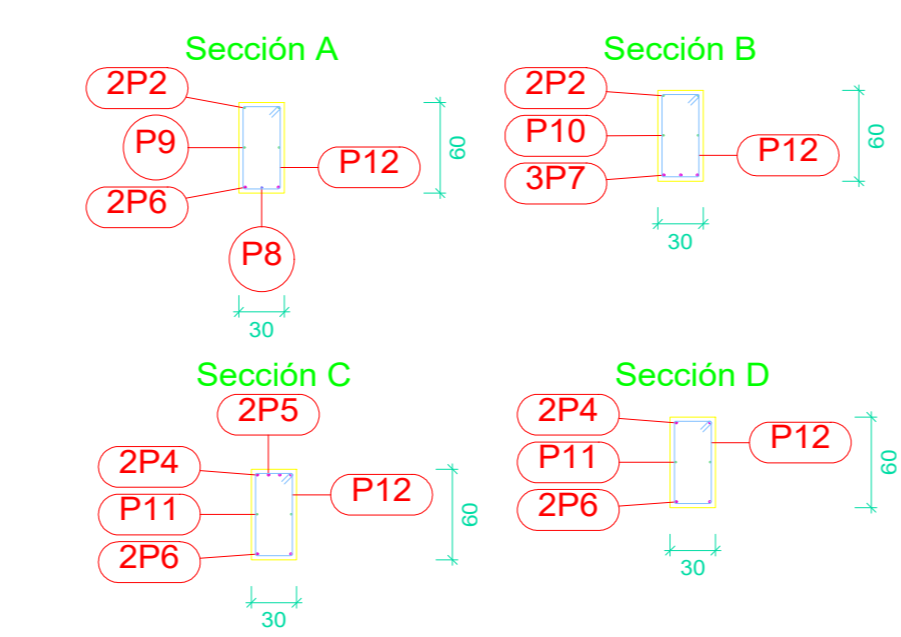
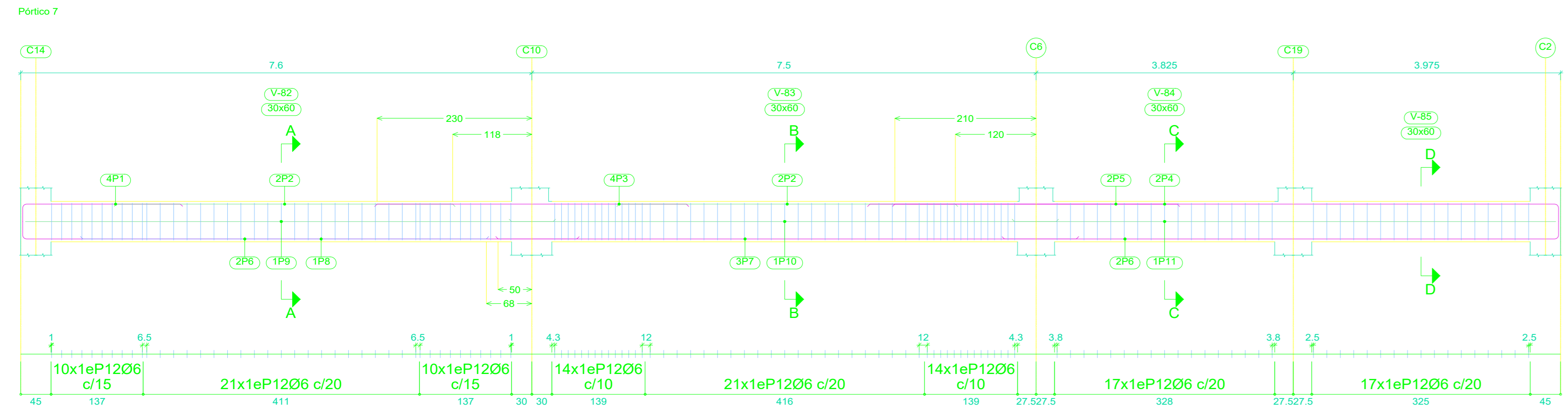
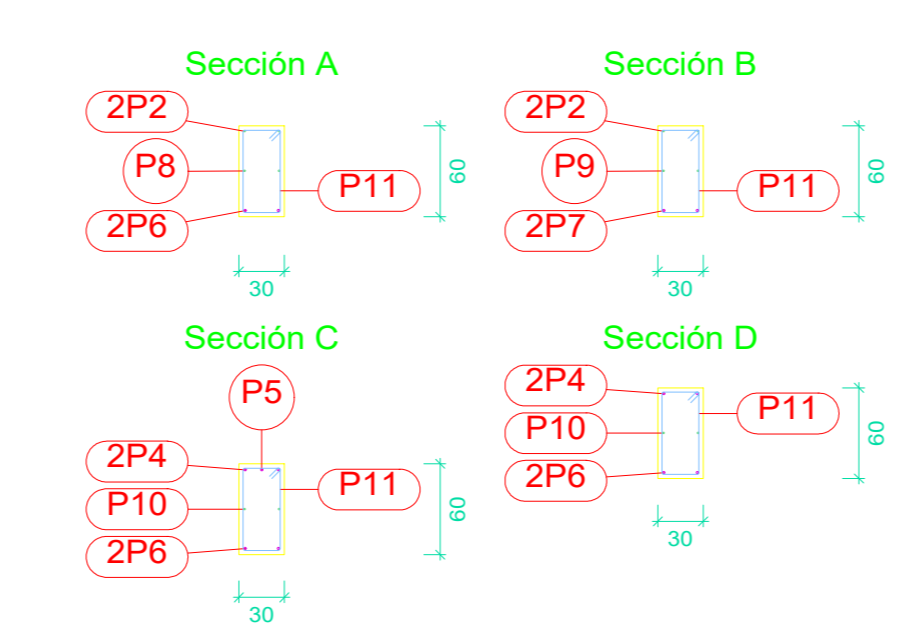
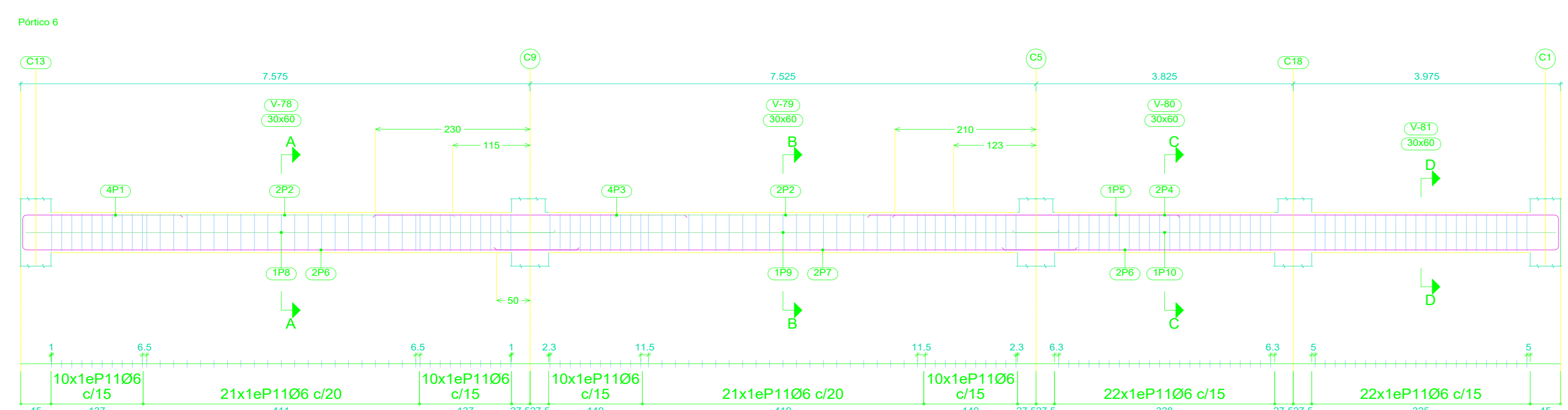
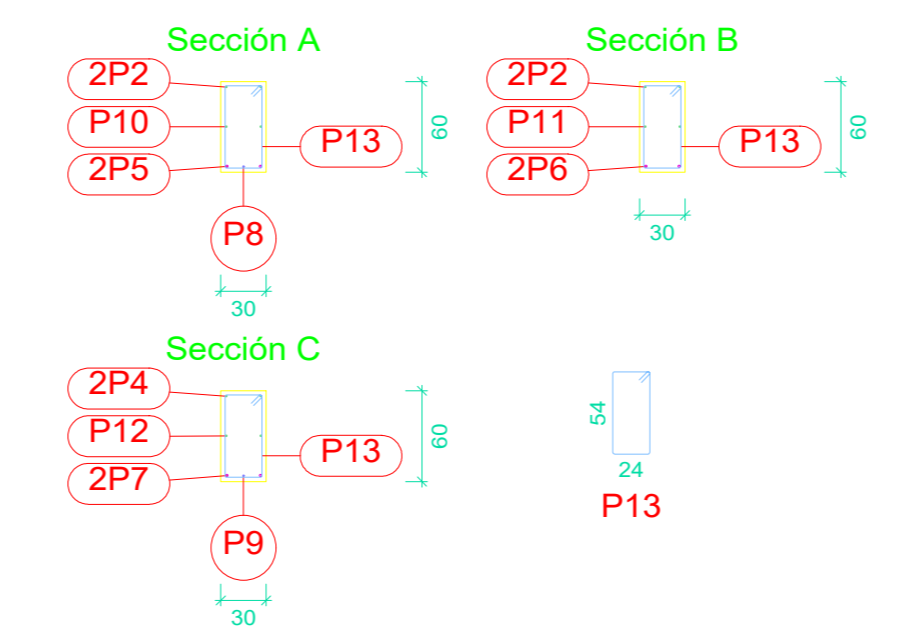
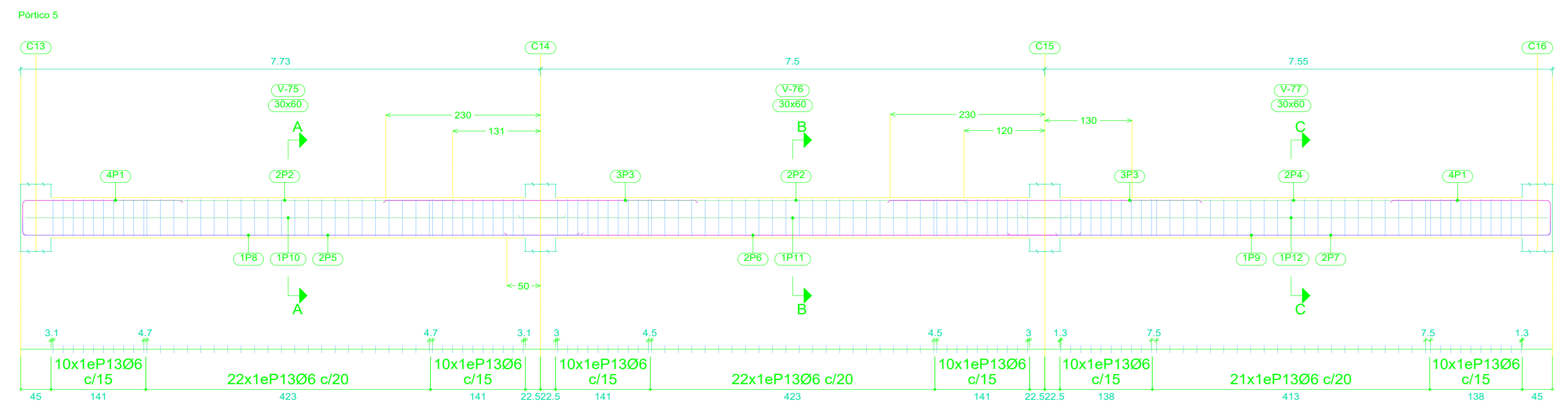
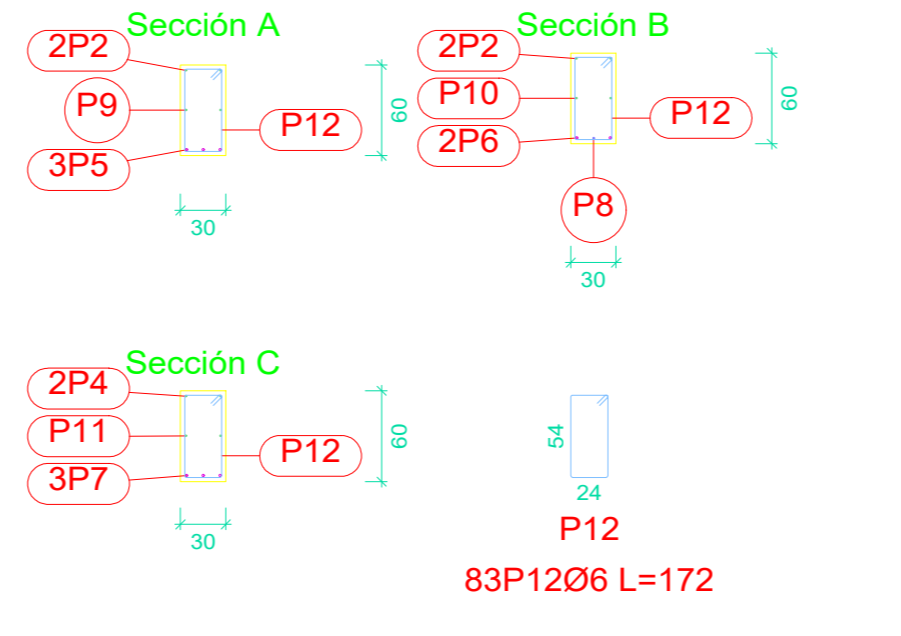
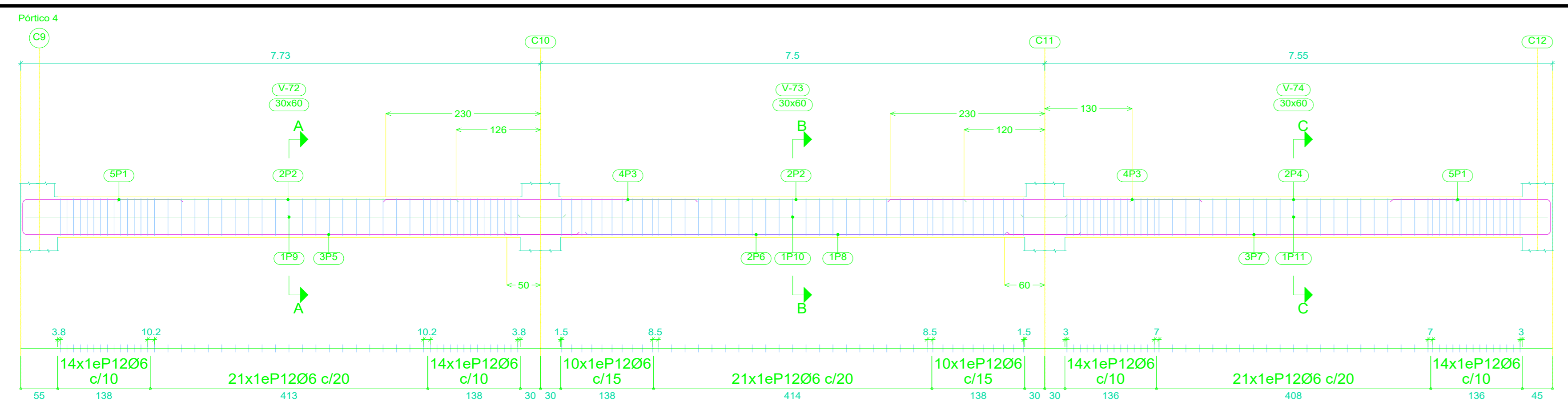
Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 5	1	Ø16	7	234	260	1820	28.7
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	6	460	460	2760	43.6
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	2	804	830	1660	26.2
	8	Ø12	1	720	740	740	6.6
	9	Ø10	2	804	820	1640	10.1
	10	Ø10	2	810	810	1620	10.0
	11	Ø10	2	784	800	1600	9.9
	12	Ø6	123	7	24	172	21156
Total+10%							279.2
Pórtico 7+Pórtico 8	1	Ø16	4	274	300	1200	18.9
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	2	420	420	840	13.3
	5	Ø16	2	1024	1050	2100	33.1
	6	Ø16	4	824	850	3400	53.7
	7	Ø16	2	860	860	2580	40.7
	8	Ø12	1	600	600	600	5.3
	9	Ø10	2	789	805	1610	9.9
	10	Ø10	2	810	810	1620	10.0
	11	Ø10	2	809	825	1650	10.2
	12	Ø6	131	7	24	172	22532
Total+10%							315.0
(x2)							630.0

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)	
Pórtico 6	1	Ø16	4	274	300	1200	18.9	
	2	Ø10	4	500	500	2000	12.3	
	3	Ø16	4	460	460	1840	29.0	
	4	Ø16	1	420	420	420	6.6	
	5	Ø16	2	1024	1050	2100	33.1	
	6	Ø16	4	824	850	3400	53.7	
	7	Ø16	2	860	860	1720	27.1	
	8	Ø12	2	789	805	1610	9.9	
	9	Ø10	2	815	815	1630	10.0	
	10	Ø10	2	809	825	1650	10.2	
	11	Ø6	126	7	24	172	21672	48.1
	Total+10%							284.8
Pórtico 9	1	Ø16	4	274	300	1200	18.9	
	2	Ø10	4	500	500	2000	12.3	
	3	Ø16	4	460	460	1840	29.0	
	4	Ø16	1	420	420	420	6.6	
	5	Ø16	2	1024	1050	2100	33.1	
	6	Ø16	4	824	850	3400	53.7	
	7	Ø16	2	860	860	1720	27.1	
	8	Ø12	1	620	620	620	5.5	
	9	Ø10	2	784	800	1600	9.9	
	10	Ø10	2	815	815	1630	10.0	
	11	Ø10	2	809	825	1650	10.2	
	12	Ø6	126	7	24	172	21672	48.1
Total+10%							290.8	

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 1	1	Ø16	6	234	260	1560	24.6
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	6	460	460	2760	43.6
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	2	804	830	1660	26.2
	8	Ø10	2	804	820	1640	10.1
	9	Ø10	2	810	810	1620	10.0
	10	Ø10	2	784	800	1600	9.9
	11	Ø6	125	7	24	172	21500
Total+10%							268.3

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 2	1	Ø16	6	234	260	1560	24.6
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	6	460	460	2760	43.6
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	2	804	830	1660	26.2
	8	Ø10	2	804	820	1640	10.1
	9	Ø10	2	810	810	1620	10.0
	10	Ø10	2	784	800	1600	9.9
	11	Ø6	123	7	24	172	21156
Total+10%							267.4

**SEGUNDA PLANTA**  
 Despiece de vigas  
 Hormigón: 25 Mpas  
 Acero en barras: AH-500  
 Acero en estribos: AH-500  
 Escala pórticos 1:50  
 Escala secciones 1:50  
 Escala huecos 1:50



Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 3	1	Ø16	9	234	260	2340	36.9
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	6	460	460	2760	43.6
	4	Ø10	2	480	480	960	5.9
	5	Ø16	3	824	850	2550	40.2
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	3	804	830	2490	39.3
	8	Ø12	1	620	620	620	5.5
	9	Ø10	2	804	820	1640	10.1
	10	Ø10	2	810	810	1620	10.0
	11	Ø10	2	784	800	1600	9.9
	12	Ø6	28	10	176	4928	19.4
	13	Ø6	119	7	172	20468	45.4
Total+10%							335.8

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 4	1	Ø16	10	234	260	2600	41.0
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	8	460	460	3680	58.1
	4	Ø10	2	480	480	960	5.9
	5	Ø16	3	824	850	2550	40.2
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	3	804	830	2490	39.3
	8	Ø12	1	620	620	620	5.5
	9	Ø10	2	804	820	1640	10.1
	10	Ø10	2	810	810	1620	10.0
	11	Ø10	2	784	800	1600	9.9
	Total+10%						

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 6	1	Ø16	4	234	260	1040	16.4
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	2	1024	1050	2100	33.1
	5	Ø16	1	420	420	420	6.6
	6	Ø16	4	824	850	3400	53.7
	7	Ø16	2	860	860	1720	27.1
	8	Ø10	2	789	805	1610	9.9
	9	Ø10	2	815	815	1630	10.0
	10	Ø10	2	809	825	1650	10.2
	11	Ø6	126	7	172	21672	48.1
Total+10%							282.0

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 5	1	Ø16	8	234	260	2080	32.8
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	6	460	460	2760	43.6
	4	Ø10	2	480	480	960	5.9
	5	Ø16	2	824	850	1700	26.8
	6	Ø16	2	850	850	1700	26.8
	7	Ø16	2	804	830	1660	26.2
	8	Ø12	1	830	850	850	7.5
	9	Ø12	1	733	753	753	6.7
	10	Ø10	2	804	820	1640	10.1
	11	Ø10	2	810	810	1620	10.0
	12	Ø10	2	784	800	1600	9.9
	13	Ø6	125	7	172	21500	47.7
Total+10%							292.9

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 7	1	Ø16	4	234	260	1040	16.4
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	2	1024	1050	2100	33.1
	5	Ø16	2	420	420	840	13.3
	6	Ø16	4	824	850	3400	53.7
	7	Ø16	3	860	860	2580	40.7
	8	Ø12	1	600	600	600	5.3
	9	Ø10	2	789	805	1610	9.9
	10	Ø10	2	810	810	1620	10.0
	11	Ø10	2	809	825	1650	10.2
	12	Ø6	124	7	172	21328	47.3
Total+10%							309.3

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 8	1	Ø16	4	234	260	1040	16.4
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	5	460	460	2300	36.3
	4	Ø16	2	1024	1050	2100	33.1
	5	Ø16	2	420	420	840	13.3
	6	Ø16	4	824	850	3400	53.7
	7	Ø16	3	860	860	2580	40.7
	8	Ø12	1	600	600	600	5.3
	9	Ø10	2	789	805	1610	9.9
	10	Ø10	2	810	810	1620	10.0
	11	Ø10	2	809	825	1650	10.2
	12	Ø6	132	7	172	22704	50.4
Total+10%							320.8

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 9	1	Ø16	4	234	260	1040	16.4
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	2	1024	1050	2100	33.1
	5	Ø16	1	420	420	420	6.6
	6	Ø16	4	824	850	3400	53.7
	7	Ø16	3	860	860	2580	40.7
	8	Ø10	2	784	800	1600	9.9
	9	Ø10	2	820	820	1640	10.1
	10	Ø10	2	809	825	1650	10.2
	11	Ø6	128	7	172	22016	48.9
Total+10%							298.0

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. (cm)	Total (cm)	AH-500 (kg)
Pórtico 9	1	Ø16	4	234	260	1040	16.4
	2	Ø10	4	500	500	2000	12.3
	3	Ø16	4	460	460	1840	29.0
	4	Ø16	2	1024	1050	2100	33.1
	5	Ø16	1	420	420	420	6.6
	6	Ø16	4	824	850	3400	53.7
	7	Ø16	3	860	860	2580	40.7
	8	Ø10	2	784	800	1600	9.9
	9	Ø10	2	820	820	1640	10.1
	10	Ø10	2	809	825	1650	10.2
	11	Ø6	128	7	172	22016	48.9
Total+10%							298.0