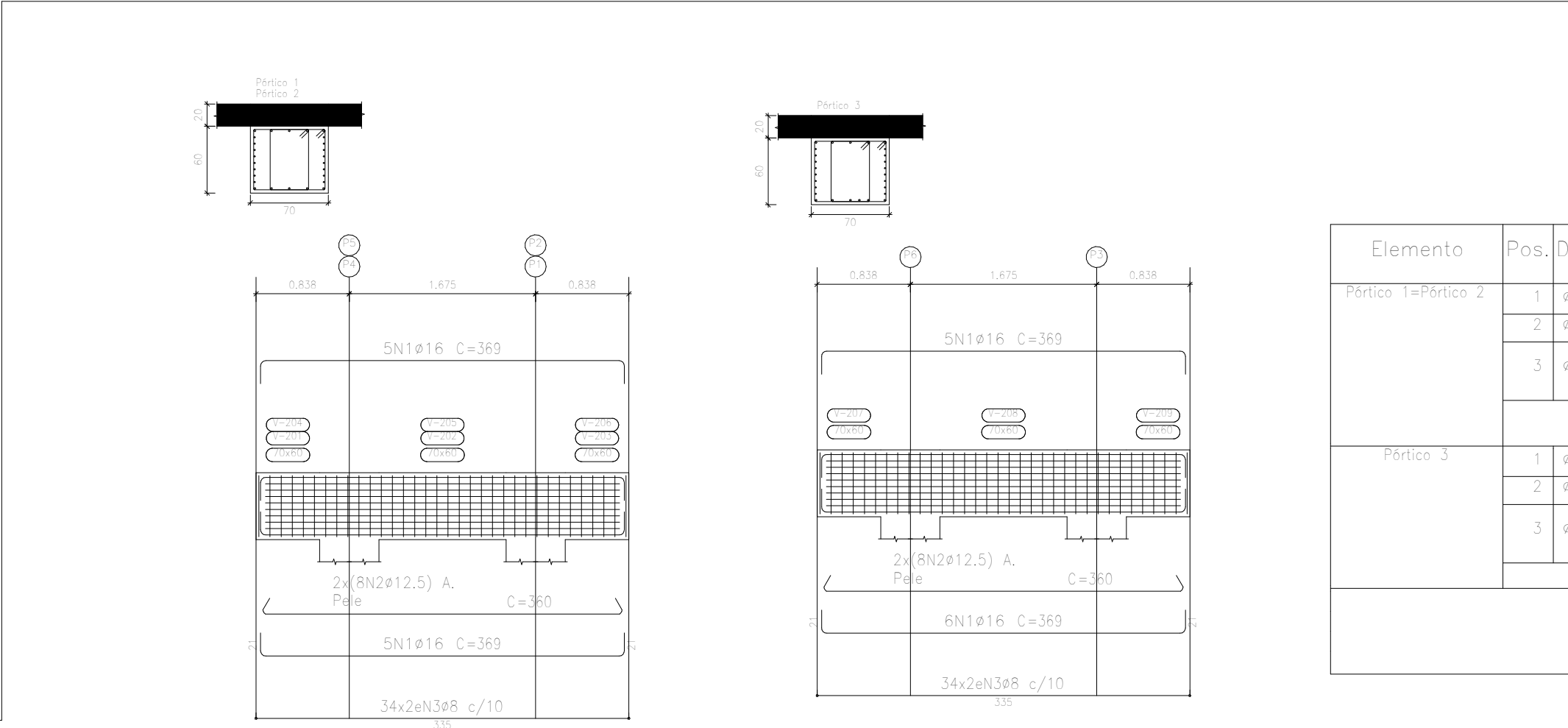
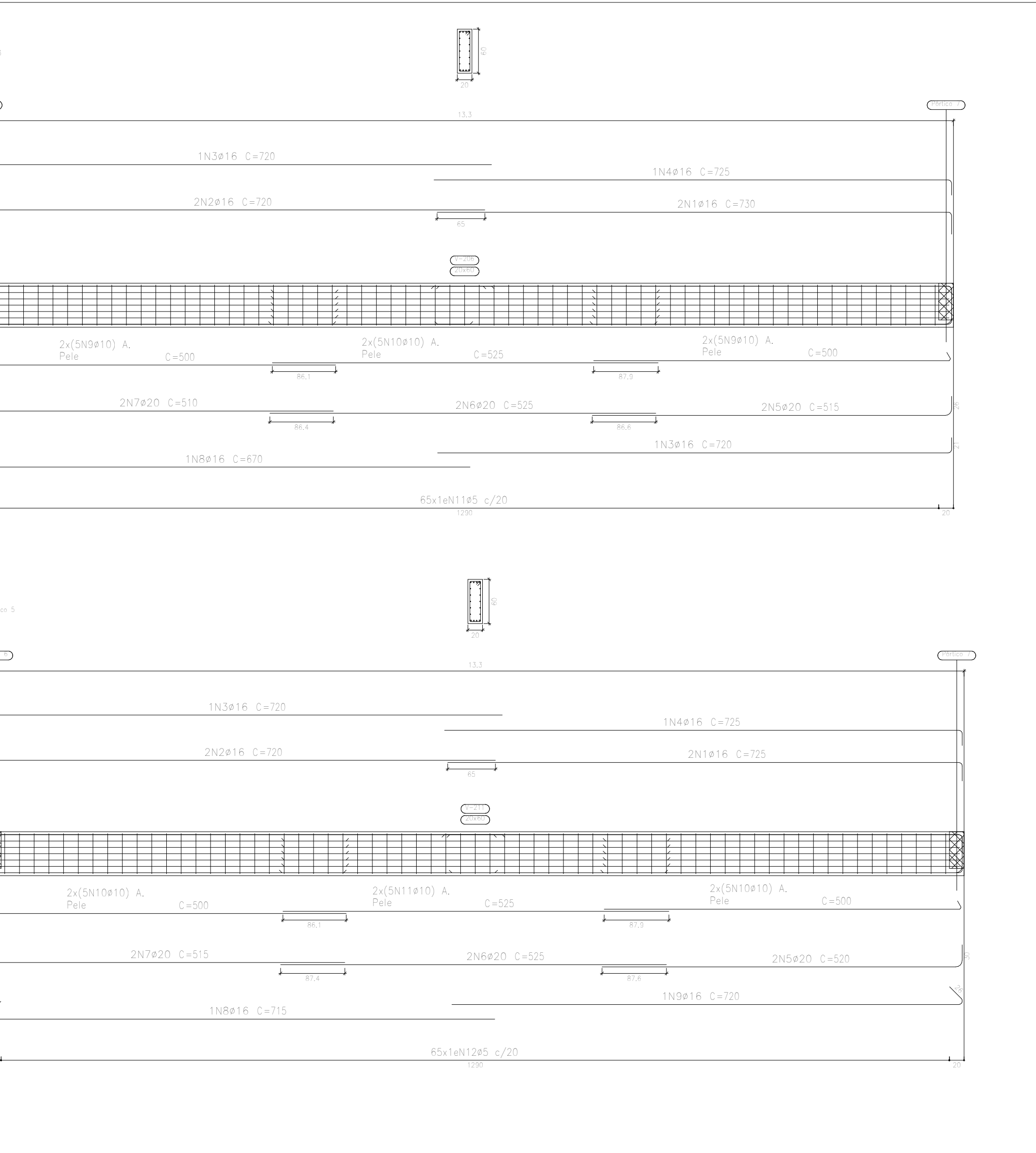
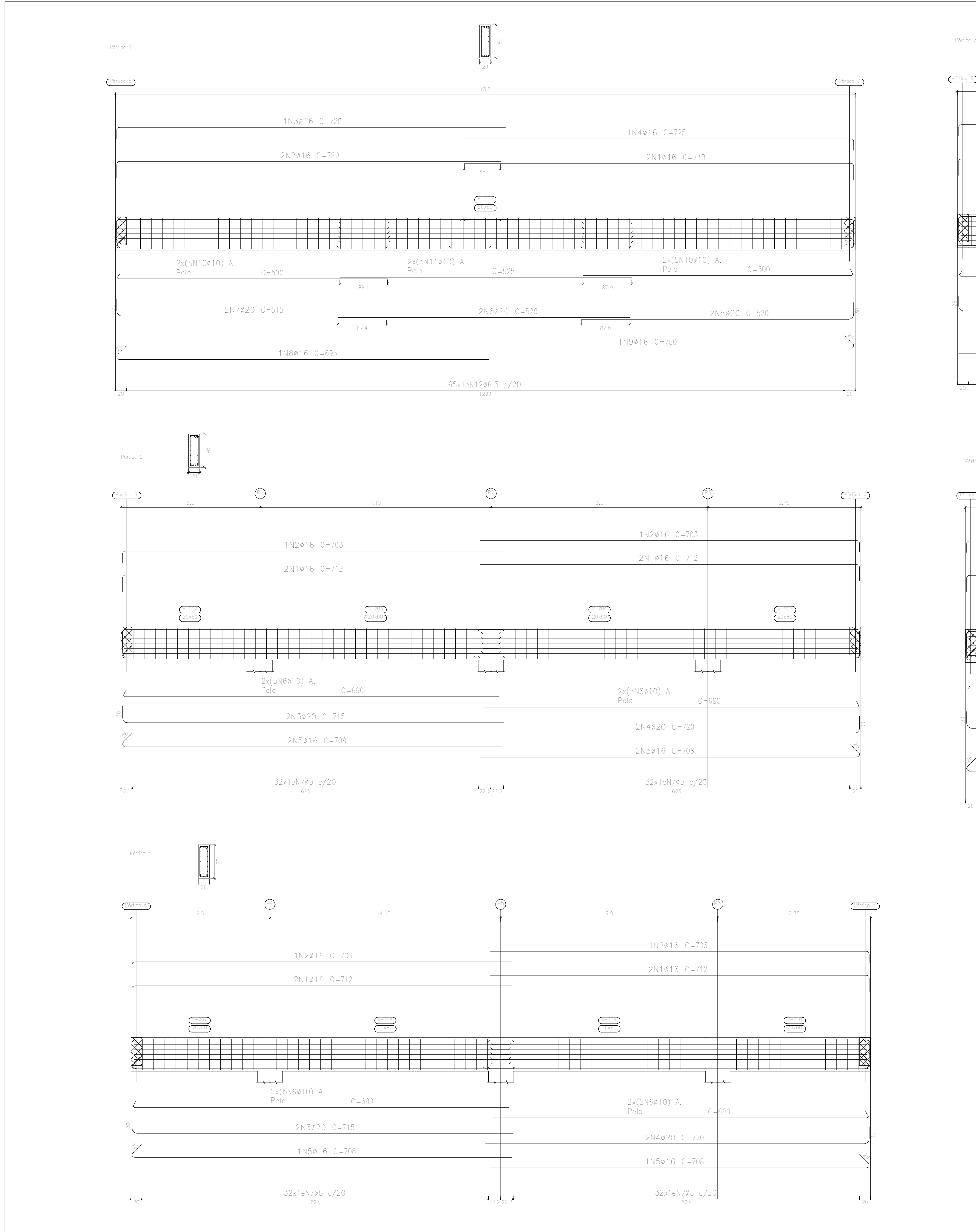
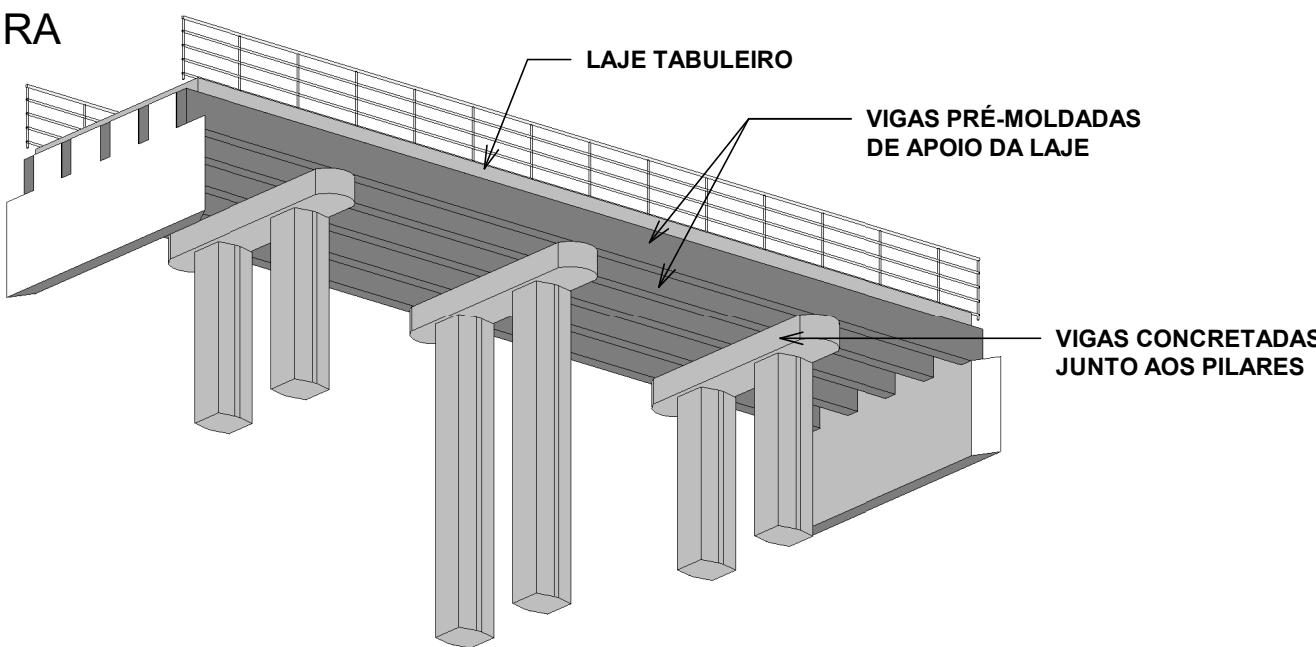




Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Pôrtil 1	1	ø16	2		730	1460	23.0	
	2	ø16	2		720	1440	22.7	
	3	ø16	1		720	720	11.4	
	4	ø16	1		725	725	11.4	
	5	ø20	2		520	1040	25.7	
	6	ø20	2		525	1050	25.9	
	7	ø20	2		515	1030	25.4	
	8	ø16	1		695	695	11.0	
	9	ø16	1		750	750	11.8	
	10	ø10	20		500	10000	61.6	
	11	ø10	10		525	5250	32.4	
	12	ø6.3	65		150	9750	23.9	
Total+10%:							314.8	
Pôrtil 2	1	ø16	4		712	2848	45.0	
	2	ø16	2		703	1406	22.2	
	3	ø20	2		715	1430	35.3	
	4	ø20	2		720	1440	35.5	
	5	ø16	4		708	2832	44.7	
	6	ø10	20		690	13800	85.0	
	7	ø5	64		148	9472	14.9	
Total+10%:							294.5	16.4
Pôrtil 3	1	ø16	2		730	1460	23.0	
	2	ø16	2		720	1440	22.7	
	3	ø16	1		720	720	11.4	
	4	ø16	1		725	725	11.4	
	5	ø20	2		515	1030	25.4	
	6	ø20	2		525	1050	25.9	
	7	ø20	2		510	1020	25.2	
	8	ø16	1		670	670	10.6	
	9	ø10	20		500	10000	61.6	
	10	ø10	10		525	5250	32.4	
	11	ø5	65		148	9620	15.1	
Total+10%:							287.0	16.6
Pôrtil 4	1	ø16	4		712	2848	45.0	
	2	ø16	2		703	1406	22.2	
	3	ø20	2		715	1430	35.3	
	4	ø20	2		720	1440	35.5	
	5	ø16	2		708	1416	22.4	
	6	ø10	20		690	13800	85.0	
	7	ø5	64		148	9472	14.9	
Total+10%:							269.9	16.4
Pôrtil 5	1	ø16	2		725	1450	22.9	
	2	ø16	2		720	1440	22.7	
	3	ø16	1		720	720	11.4	
	4	ø16	1		725	725	11.4	
	5	ø20	2		520	1040	25.7	
	6	ø20	2		525	1050	25.9	
	7	ø20	2		515	1030	25.4	
	8	ø16	1		715	715	11.3	
	9	ø16	1		720	720	11.4	
	10	ø10	20		500	10000	61.6	
	11	ø10	10		525	5250	32.4	
	12	ø5	65		148	9620	15.1	
Total+10%:							288.3	16.6
							ø5:	0.0
							ø6.3:	26.3
							ø10:	497.2
							ø16:	521.7
							ø20:	409.3
							Total:	1454.5
								66.0

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Pôrtil 1=Pôrtil 2	1	ø16	10		369	3690	58.3	
	2	ø12.5	16		360	5760	55.5	
	3	ø8	68		221	15028	59.3	
Total+10%:							190.4 (x2):	380.8
Pôrtil 3	1	ø16	11		369	4059	64.1	
	2	ø12.5	16		360	5760	55.5	
	3	ø8	68		221	15028	59.3	
Total+10%:							196.8	
							ø8:	95.6
							ø12.5:	183.3
							ø16:	198.7
							Total:	577.6
								0.0

SUPERESTRUTURA



2 3D - VIGAS
ESCALA
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PROJETO		PROJETO ESTRUTURAL	
ENDEREÇO		MUNICÍPIO DE PRESIDENTE KENNEDY	
PROPRIETÁRIO	MUNICÍPIO DE PRESIDENTE KENNEDY		
AUTOR DO PROJETO	MONIQUE ESTEVES DE OLIVEIRA CREA 85.189.110-2		
ASSUNTO	DATA	JANEIRO/2004	
PROJETO EXECUTIVO PONTE	ÁREA TOTAL CONST.	45.25 m²	
FOLHA	DESENHO:	MEO ENGENHARIA	
01/01	ESCALA:	INDICADA	