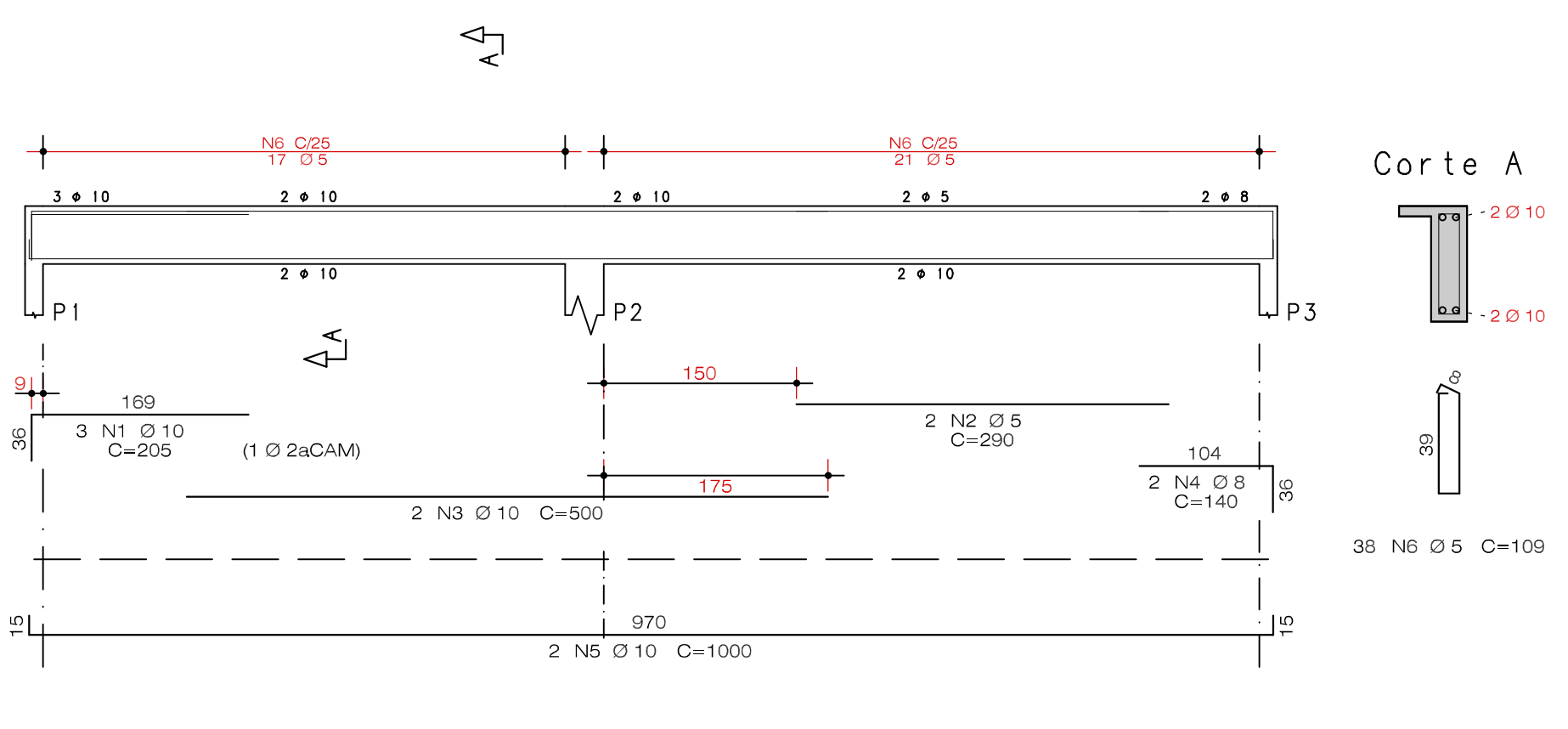
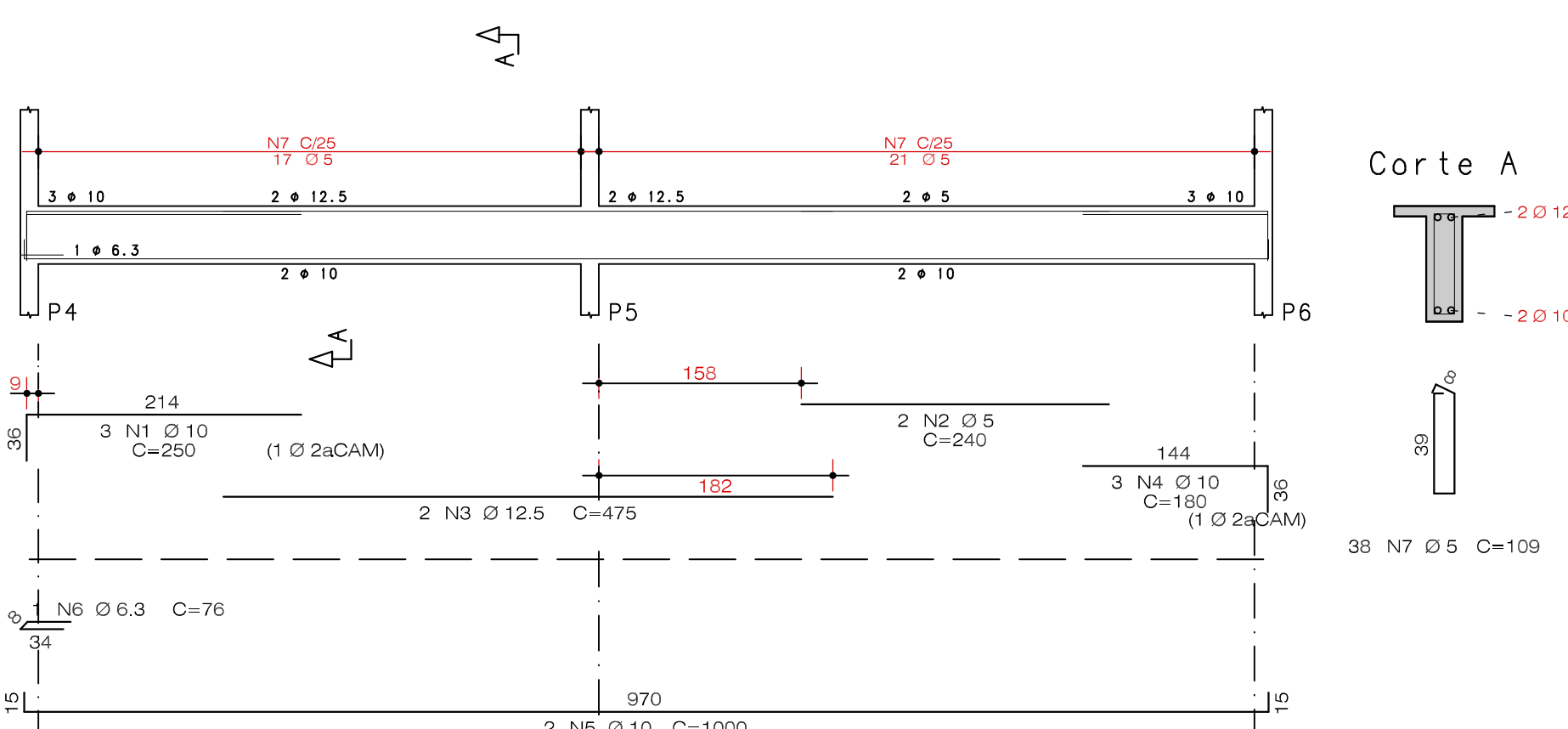
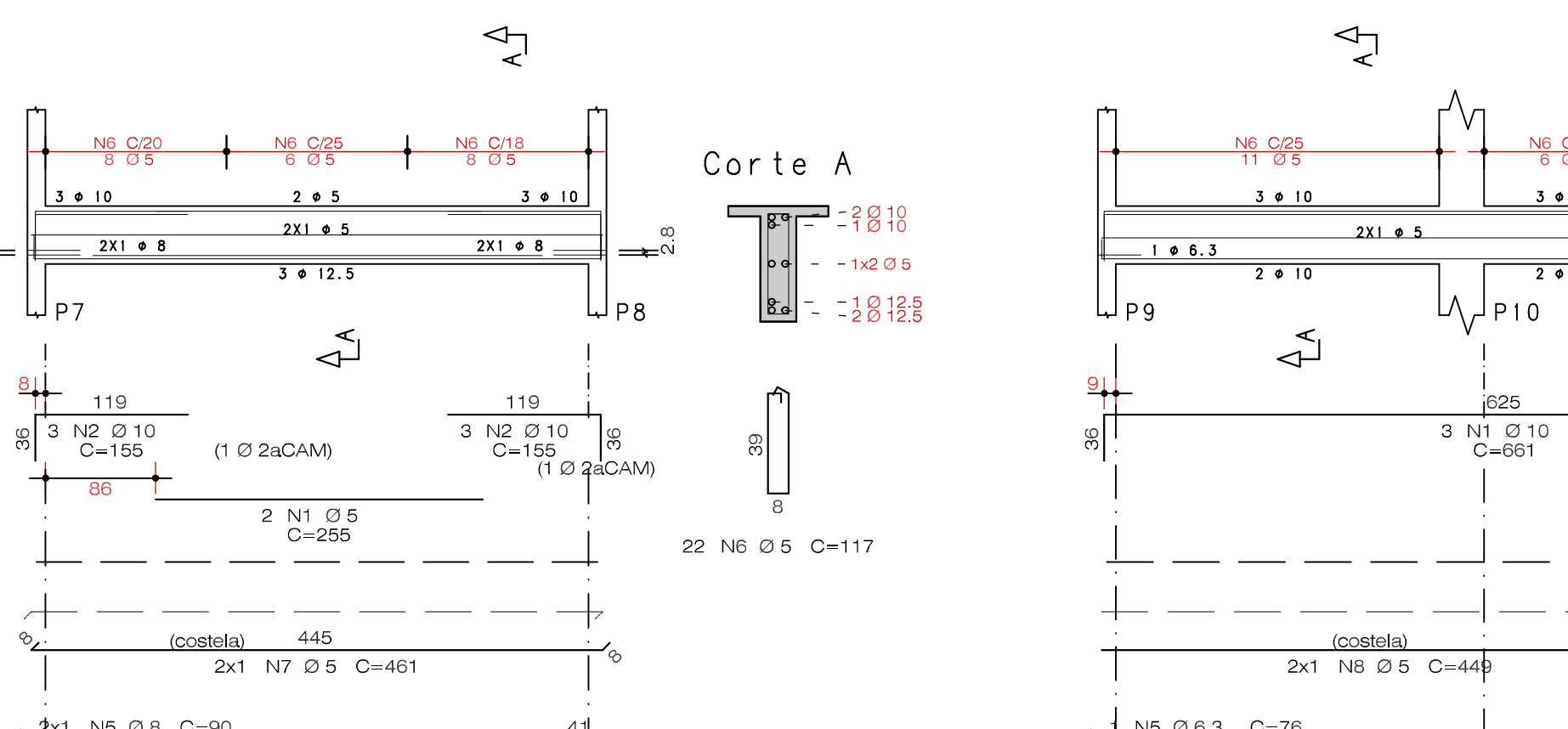
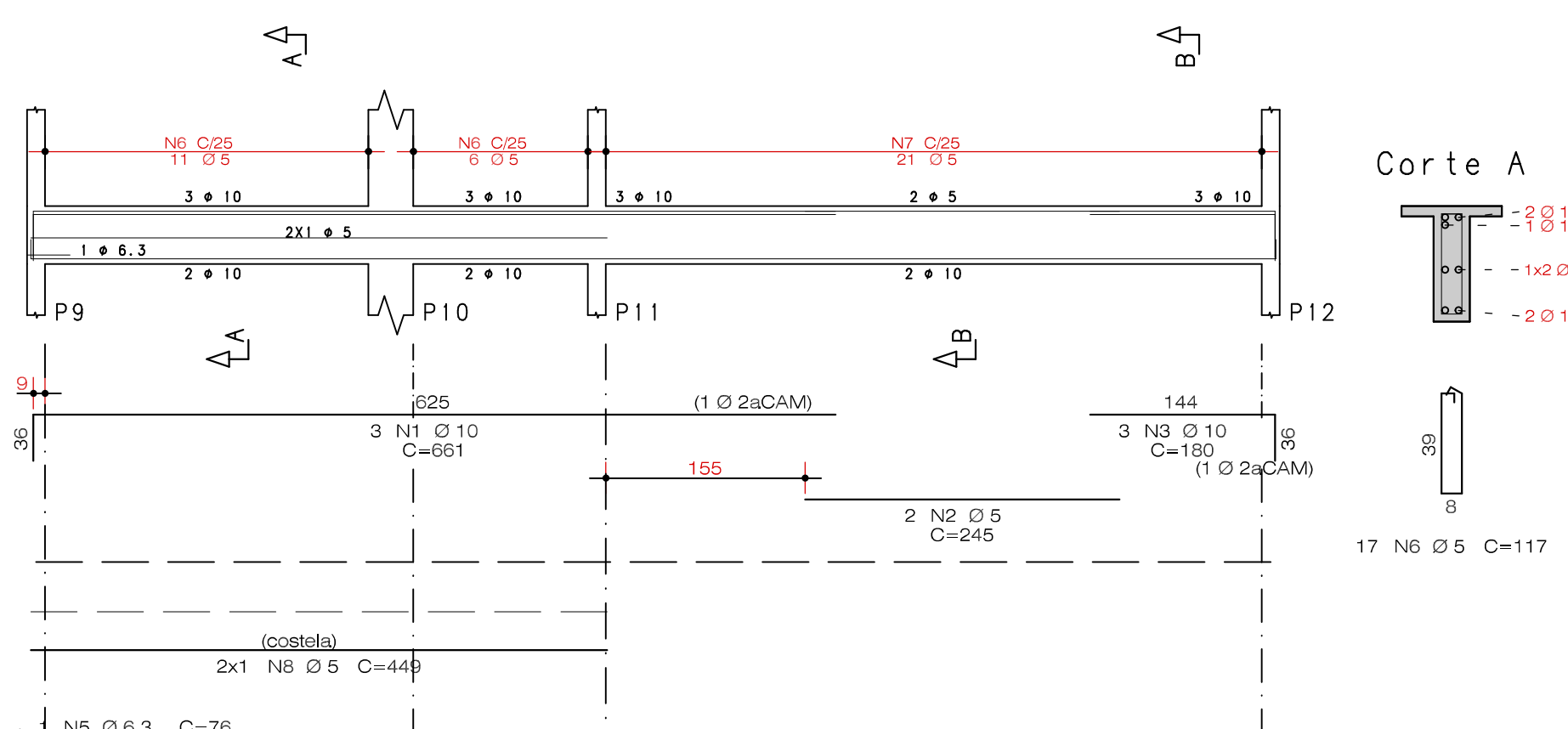
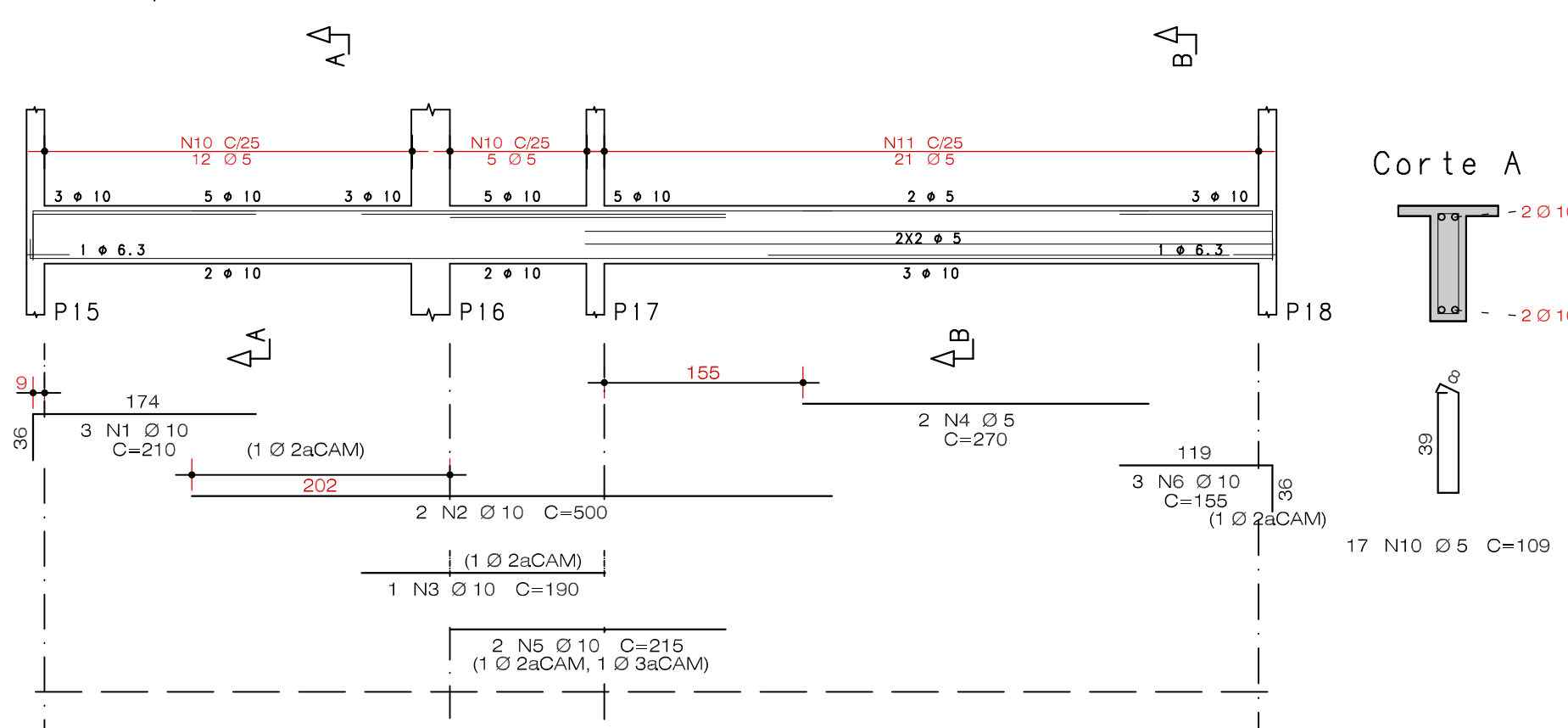
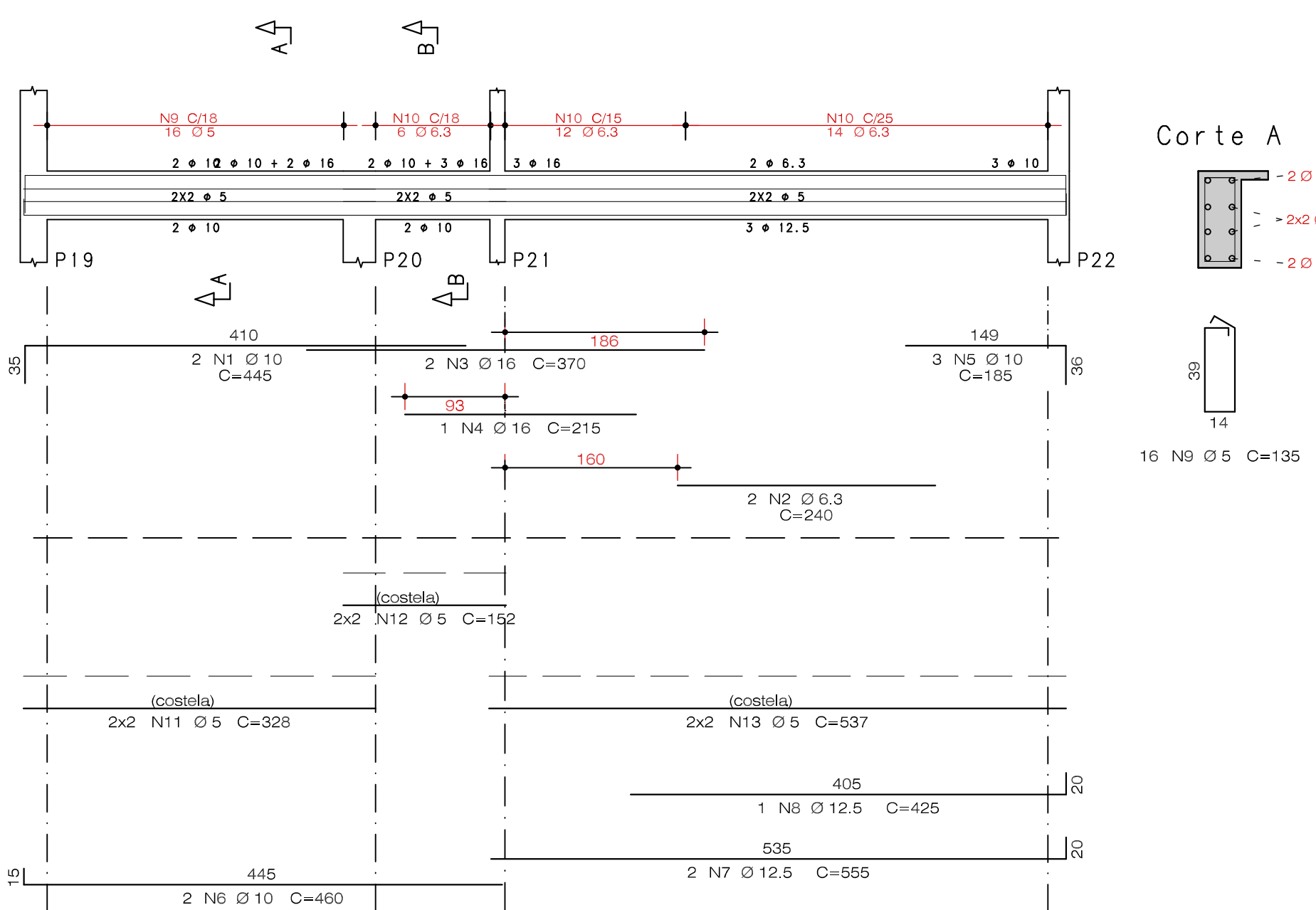


$V_{14 \times 45}$ 

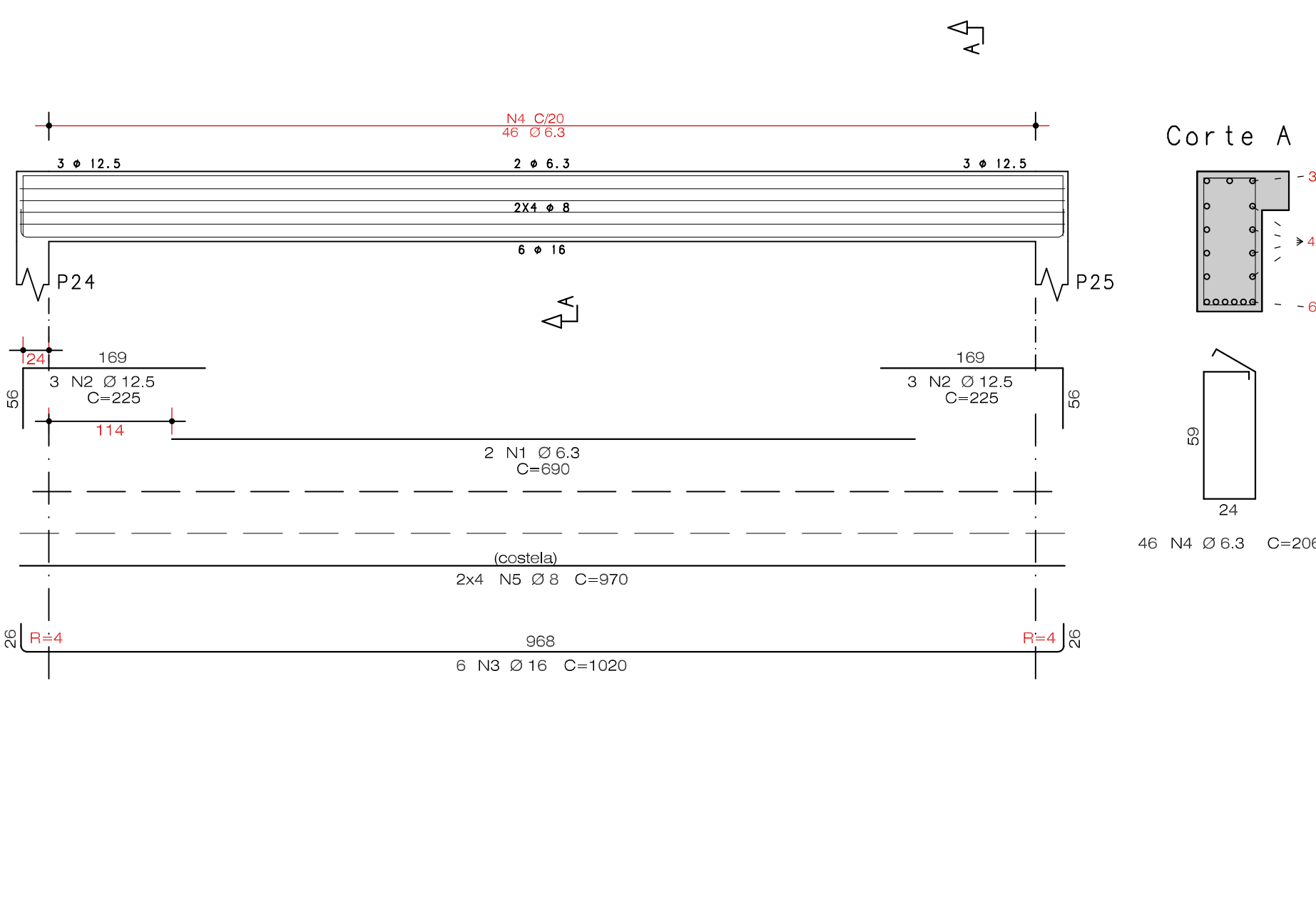
V2_{14x45}

V3_{14x45}

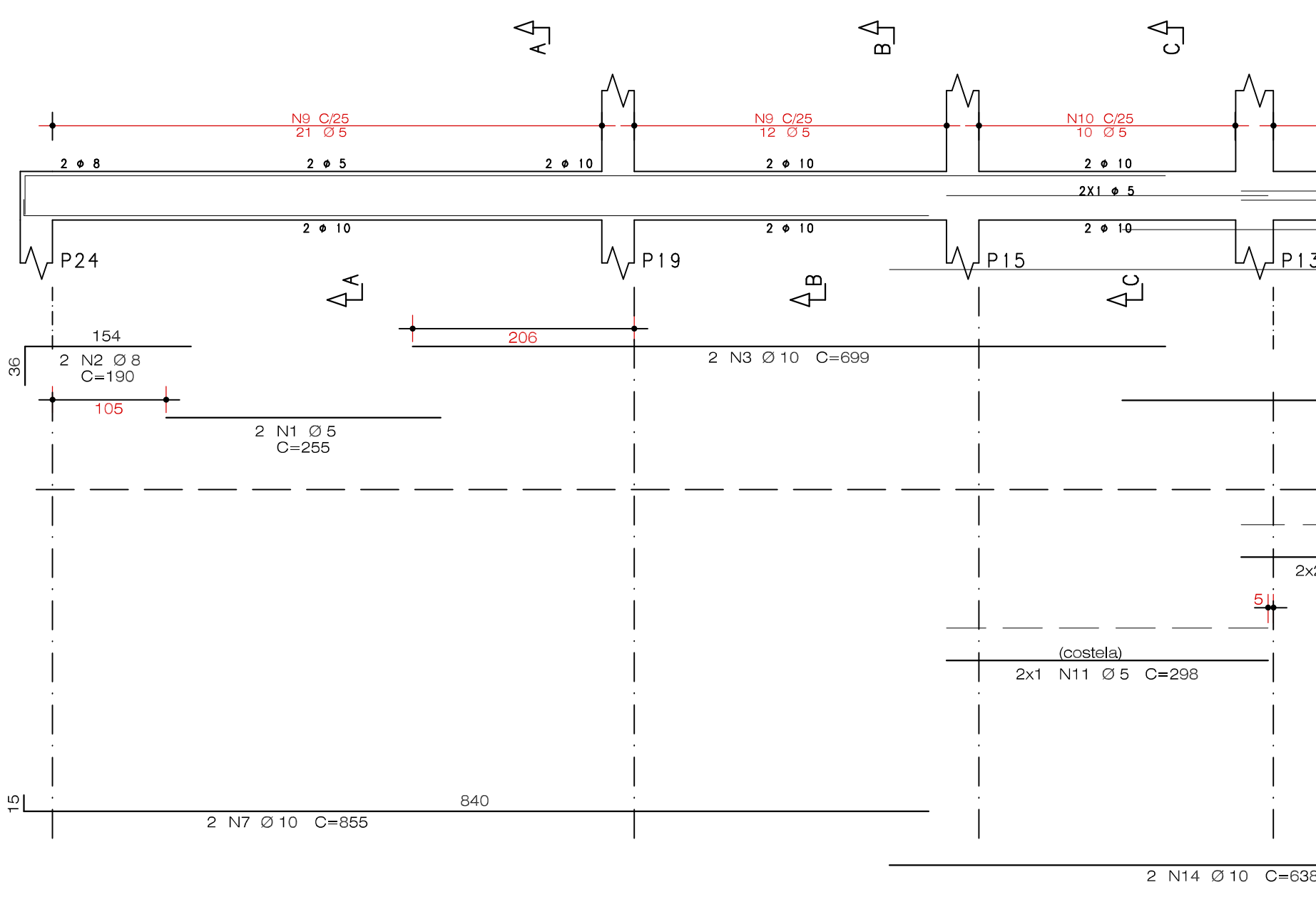
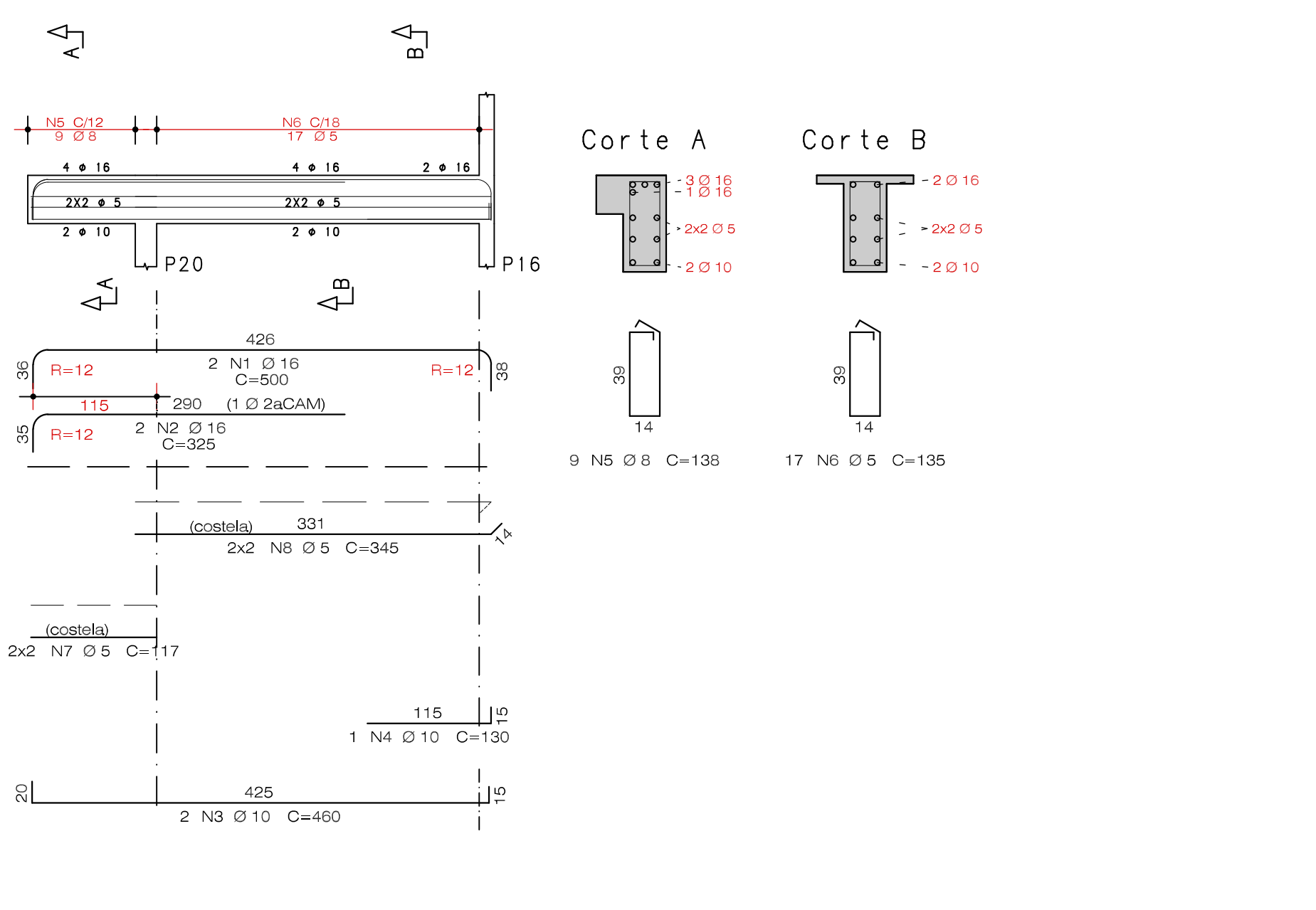
V4_{14x45}

V5_{14/45}V6_{20x45}

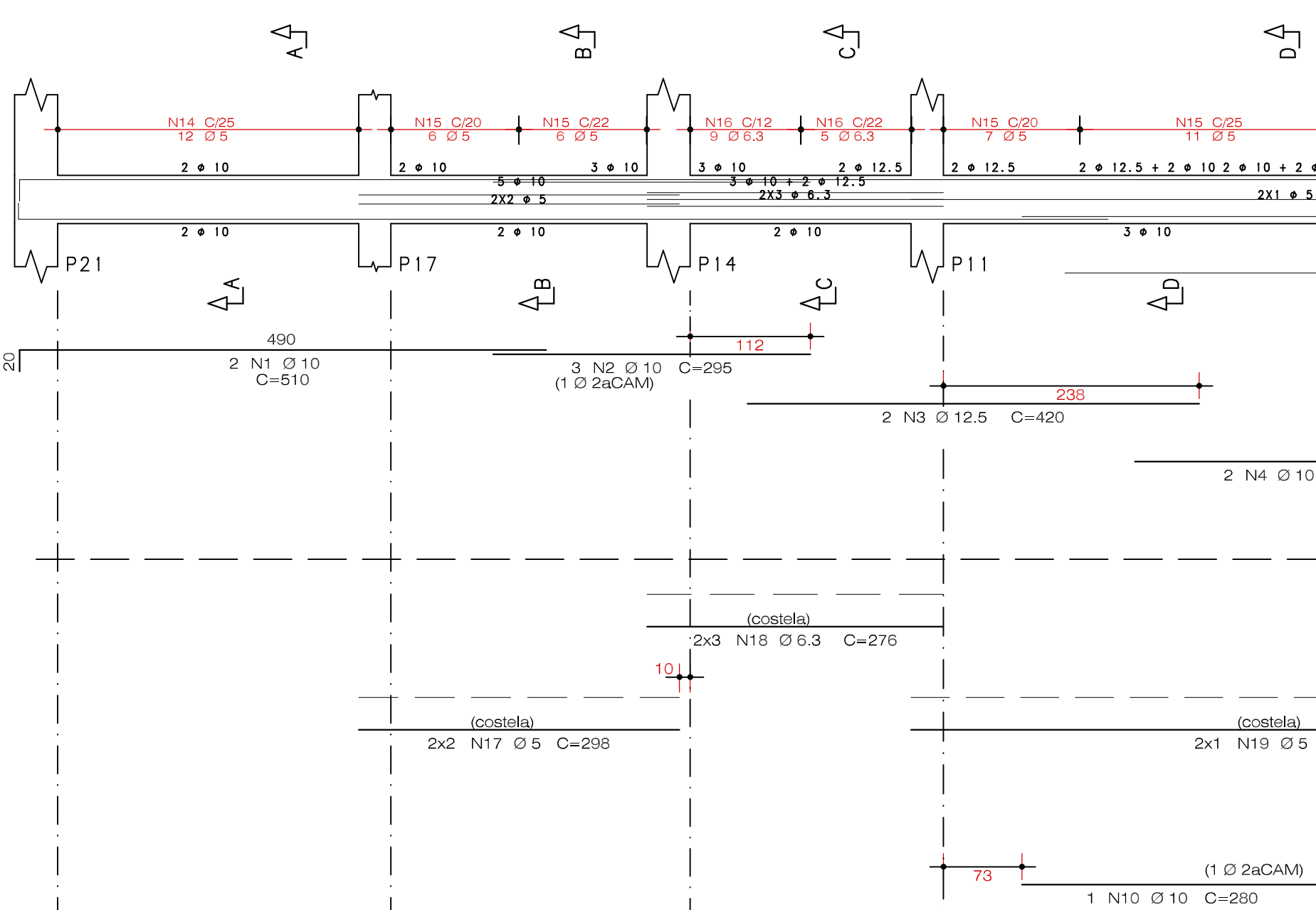
V7_{30x65}



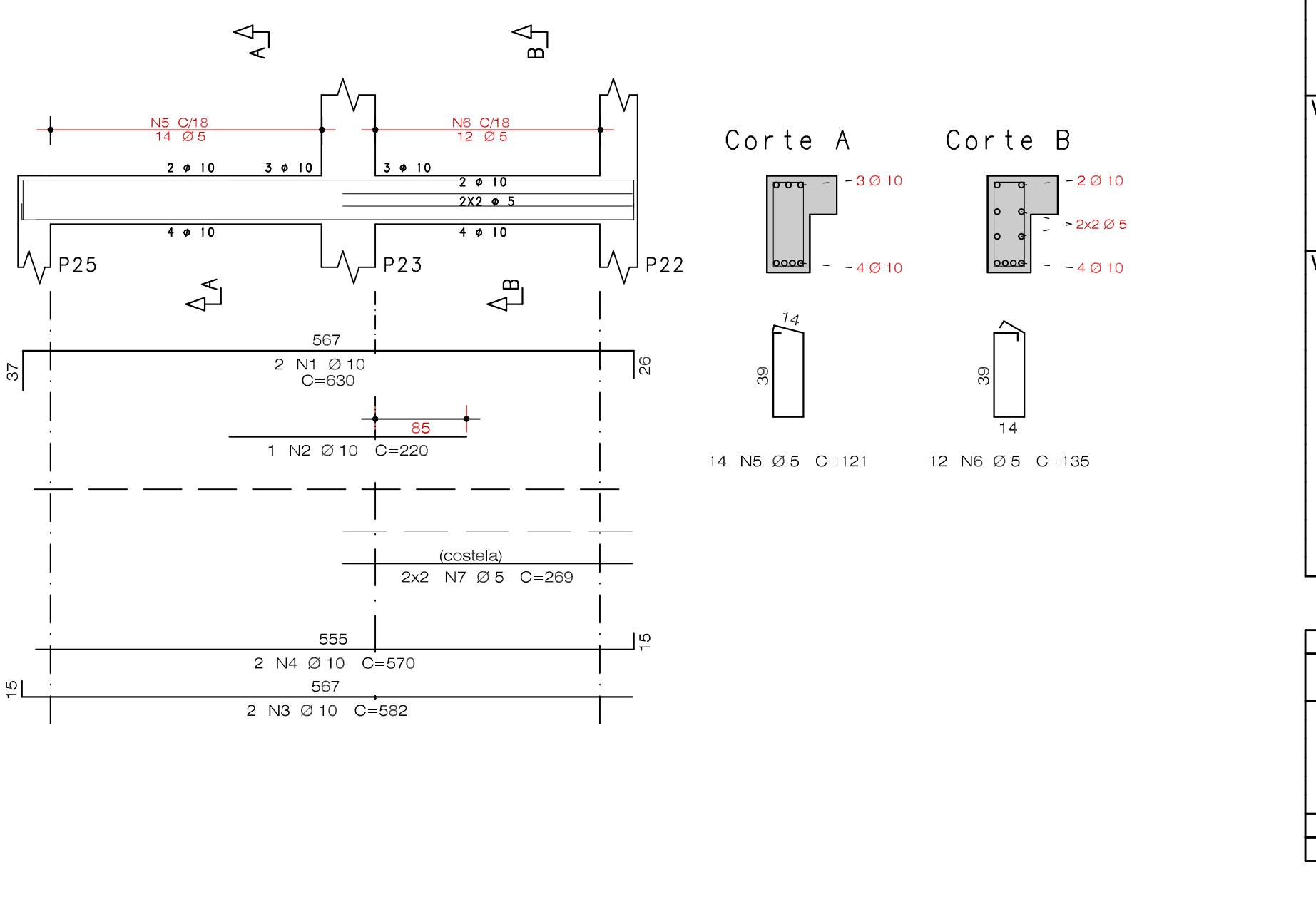
V8_{14x45}

V9_{20x45}

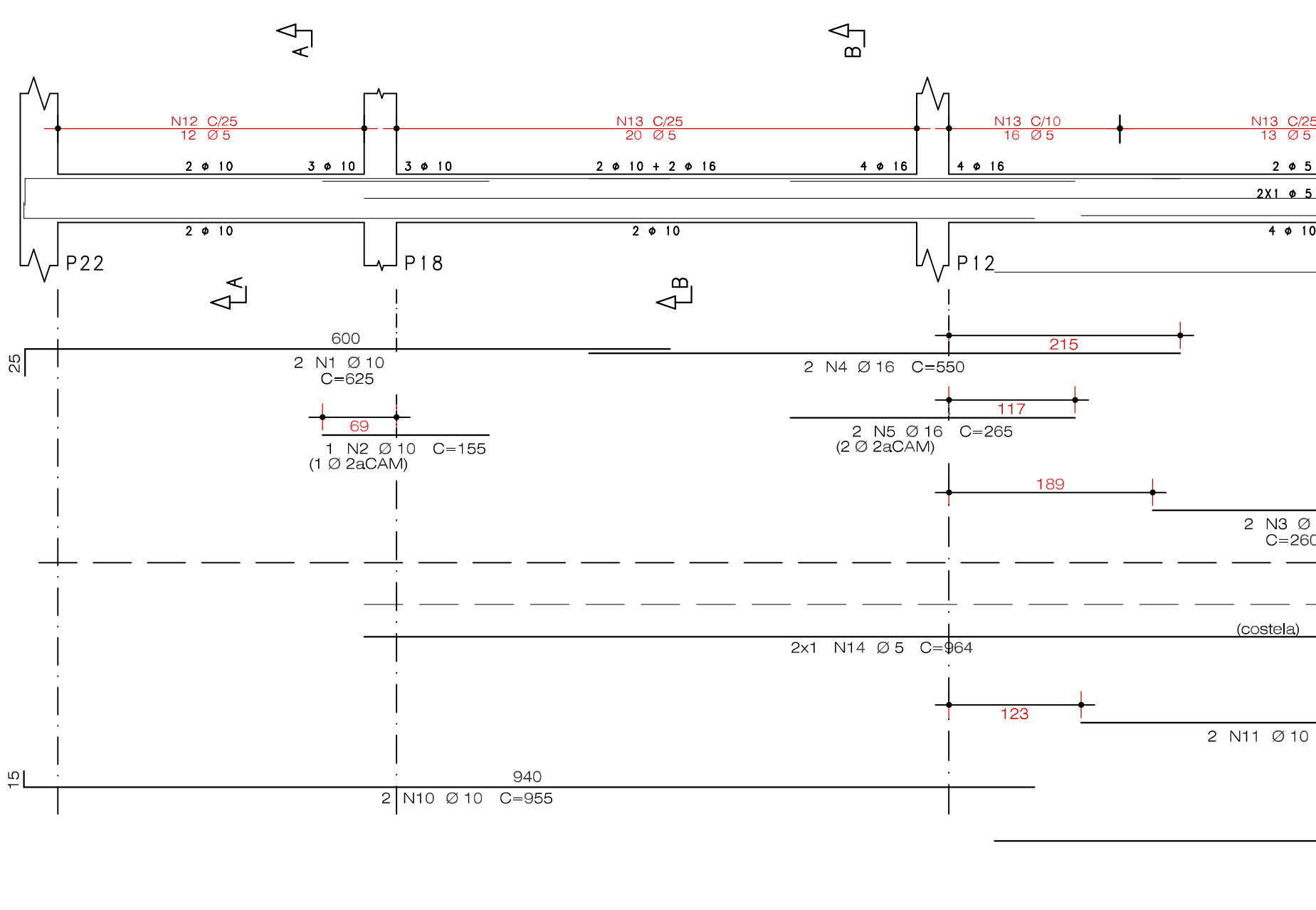
V10_{14x45}



V1 1_{20x45}



V12_{14x45}



	ACO	POS	BIT	QUANT	UNIT	TOTAL	
			mm		mm		
V1	50A	1	10	3	205	515	
	50A	2	5	2	290	580	
	50A	3	10	2	290	580	
	50A	4	8	2	140	280	
	50A	5	10	2	290	580	
V2	50A	6	5	38	109	412	
	50A	1	10	3	250	250	
	60A	2	10	2	240	240	
	50A	3	12,5	2	250	250	
	50A	5	10	2	1090	2090	
V3	50A	6	6,3	76	50	282	
	50A	7	5	38	109	412	
	60A	1	10	2	250	250	
	50A	3	12,5	2	240	240	
	50A	4	12,5	2	80	160	
V4	50A	5	10	2	41	82	
	50A	7	5	2	481	922	
	50A	1	10	3	160	1603	
	50A	2	5	2	190	242	
	50A	3	10	3	581	640	
V5	50A	4	10	2	100	200	
	50A	5	6,3	1	76	76	
	50A	6	5	21	109	2389	
	50A	7	5	21	109	2389	
	50A	8	5	21	109	2389	
V6	50A	1	10	3	210	530	
	50A	2	10	2	500	1000	
	50A	3	10	2	500	1000	
	50A	4	5	2	270	540	
	50A	5	10	2	215	430	
V7	50A	6	10	1	360	360	
	50A	7	10	1	360	360	
	50A	8	10	1	360	360	
	50A	9	6,3	32	12	76	
	50A	10	5	17	109	1652	
V8	50A	11	5	247	7	247	
	50A	12	5	4	545	2180	
	50A	1	10	2	445	890	
	50A	2	6,3	2	370	740	
	50A	3	16	2	370	740	
V9	50A	4	12,5	2	315	630	
	50A	5	10	2	460	920	
	50A	6	12,5	1	425	425	
	50A	7	10	2	460	920	
	50A	8	12,5	1	425	425	
V10	50A	9	6,3	32	12	76	
	50A	10	6,3	32	138	4352	
	50A	11	6,3	32	138	4352	
	50A	12	5	4	592	2368	
	50A	13	5	4	152	608	
V11	50A	1	6,3	2	275	550	
	50A	2	12,5	6	225	1350	
	50A	3	12,5	6	225	1350	
	50A	4	6,3	46	208	9476	
	50A	5	8	8	975	7380	
V12	50A	1	10	2	180	360	
	50A	2	5	8	190	380	
	50A	3	10	2	380	760	
	50A	4	10	2	380	760	
	50A	5	10	2	380	760	
V13	50A	6	12,5	1	230	230	
	50A	7	10	1	230	230	
	50A	8	12,5	1	230	230	
	50A	9	5	10	425	850	
	50A	10	5	46	117	5382	
V14	50A	11	5	5	275	1375	
	50A	12	5	4	271	1084	
	50A	1	10	2	180	360	
	50A	2	5	8	190	380	
	50A	3	10	2	380	760	
V15	50A	4	10	2	380	760	
	50A	5	10	2	380	760	
	50A	6	12,5	1	230	230	
	50A	7	10	1	230	230	
	50A	8	12,5	1	230	230	
V16	50A	9	5	10	425	850	
	50A	10	5	46	117	5382	
	50A	11	5	5	275	1375	
	50A	12	5	4	271	1084	
	50A	13	5	4	152	608	
V17	50A	14	10	2	380	760	
	50A	15	5	4	271	1084	
	50A	16	5	4	152	608	
	50A	17	5	4	298	1192	
	50A	18	5	2	697	1394	
V18	50A	19	5	2	697	1394	
	50A	20	5	2	697	1394	
	50A	21	10	2	596	1192	
	V19	50A	1	10	2	630	1260
		50A	2	10	2	630	1260
50A		3	10	2	582	1164	
50A		4	10	2	582	1164	
50A		5	5	14	121	1694	
V20	50A	6	5	12	162	2188	
	50A	7	5	4	265	1078	
	50A	1	10	2	625	1250	
	50A	2	10	2	625	1250	
	50A	3	5	2	260	520	
V21	50A	4	5	2	260	520	
	50A	5	16	2	265	530	
	50A	6	16	2	265	530	
	50A	7	16	2	265	530	
	50A	8	16	2	265	530	
V22	50A	9	8	1	270	540	
	50A	10	10	1	270	540	
	50A	11	10	2	395	790	
	50A	12	5	2	395	790	
	50A	13	5	84	17	9682	
V23	50A	14	5	84	17	9682	
	50A	15	10	2	1141	2282	
	50A	16	10	2	1141	2282	
	50A	17	10	2	1141	2282	
	50A	18	10	2	1141	2282	

RESUMO DE AÇO			
ANO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	825	127
50A	6,3	237	58
50A	8	105	42
50A	10	477	284
50A	12,5	72	69
50A	16	149	235
Peso Total	60A =		127 kgf
Peso Total	50A =		698 kgf

NOTAS

1. Medidas e cotações em centímetros.

CONCRETO		COBRIMENTOS MÍNIMOS DAS ARMADURAS	
CLASSE	MÓDULO LAJES E PILARES	LAJES	PILARES
NORMA DE REFERÊNCIA NBR 54	C20 20 MPa	VIGAS E PILARES	20 cm
PARTE APLACAMENTO	3000 mm	FUNDAÇÃO	8 cm

CONTROLE DE REVISÃO DE PROJETOS

REV. NO.	DATA	OBSERVAÇÕES	REVISADO POR:
01	20/05/2023	ELABORADO	FONALDO

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Autor do projeto: _____

FONALDO MATEUS OLIVEIRA JUNIOR - CREA 194515-4

RESIDÊNCIA UNIFAMILIAR

Projeto de: _____

Projeto de: _____

PROJ. VALTER OLIVEIRA VIGAS

000000001

Composto:

VIGAS DO PAVIMENTO SUPERIOR

Força detalhada morta platis:

V1 / V2 / V3 / V4 / V5 / V6 / V7

V8 / V9 / V10 / V11 / V12

Resumo:

116

Data:

13/07/2023

Folha:

008