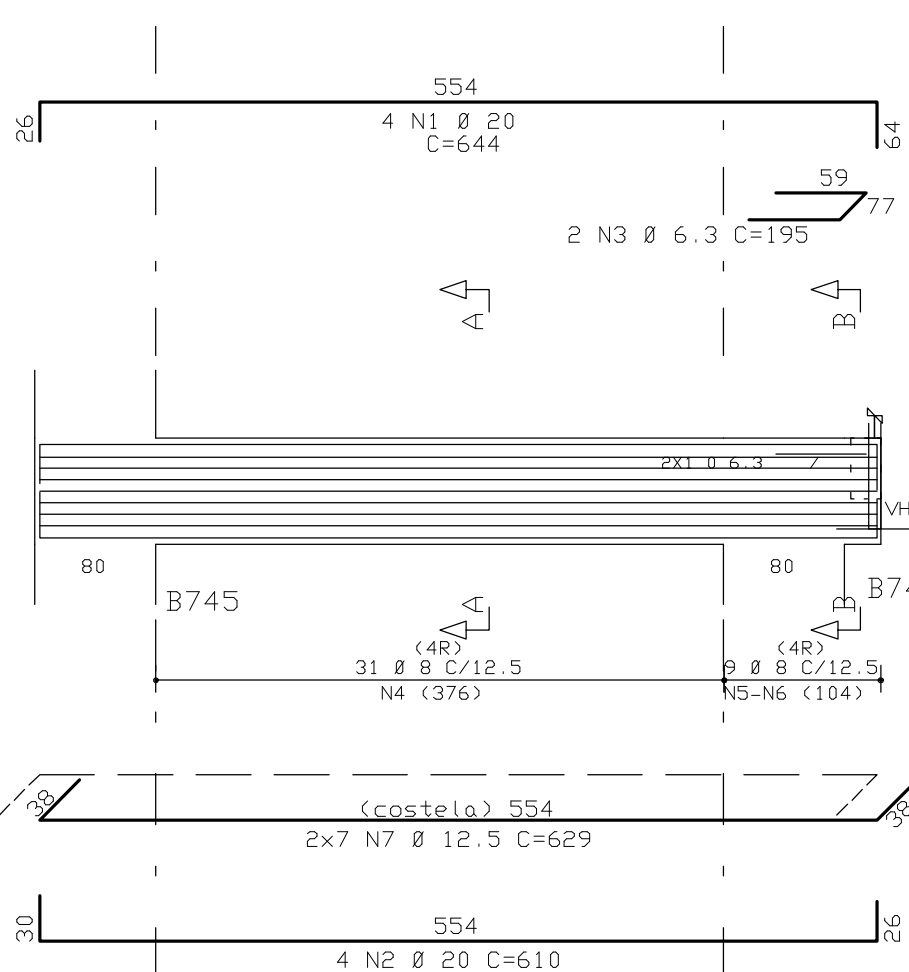
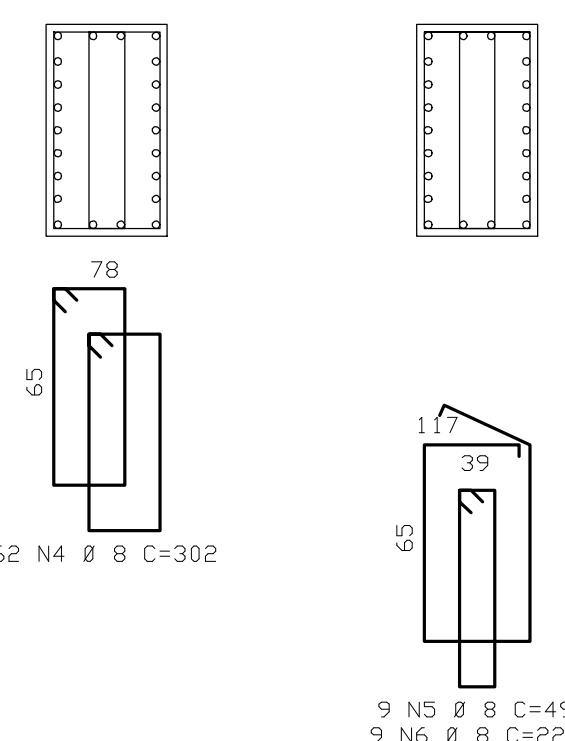


VE101H 122/70

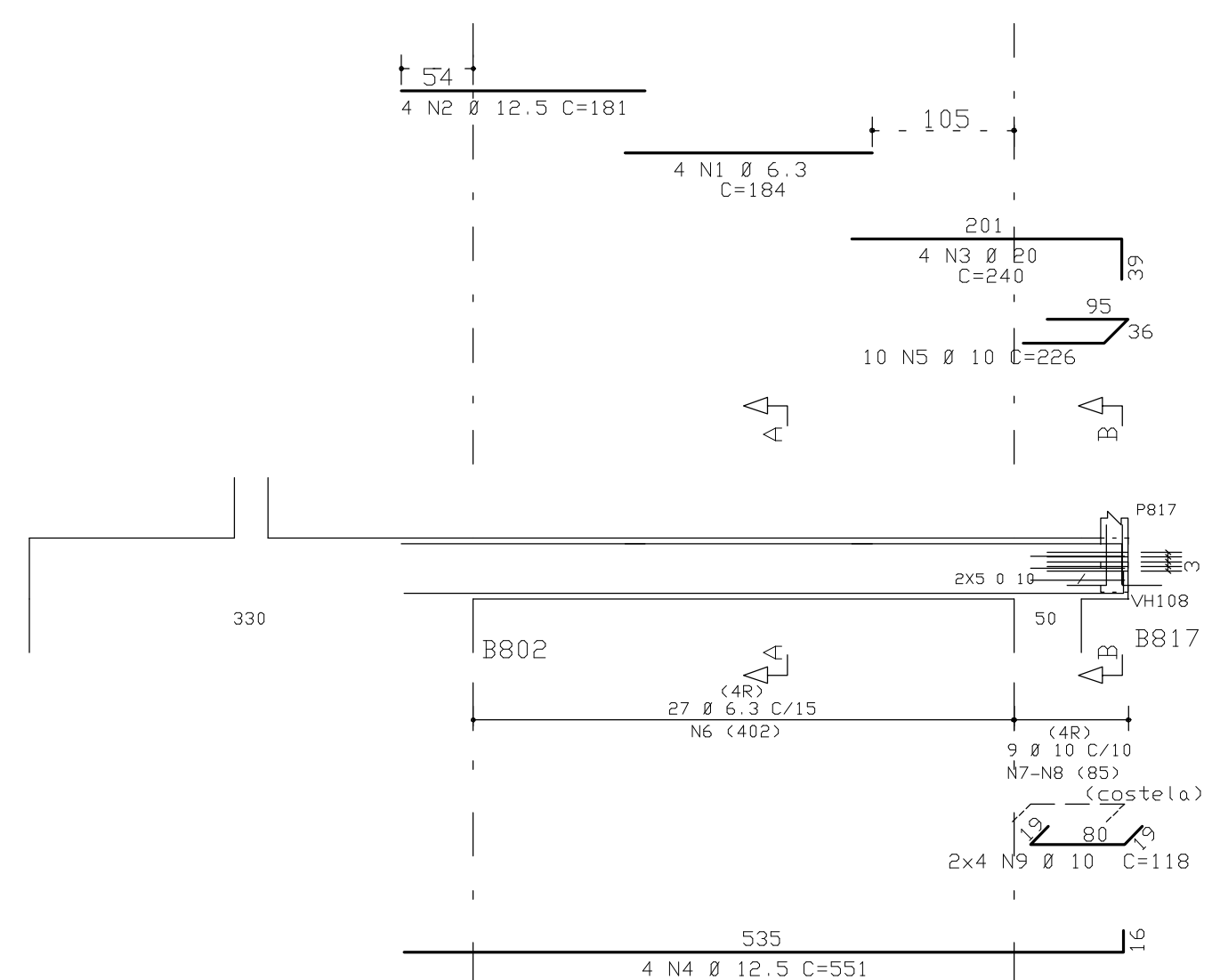


Corte A

Corte B

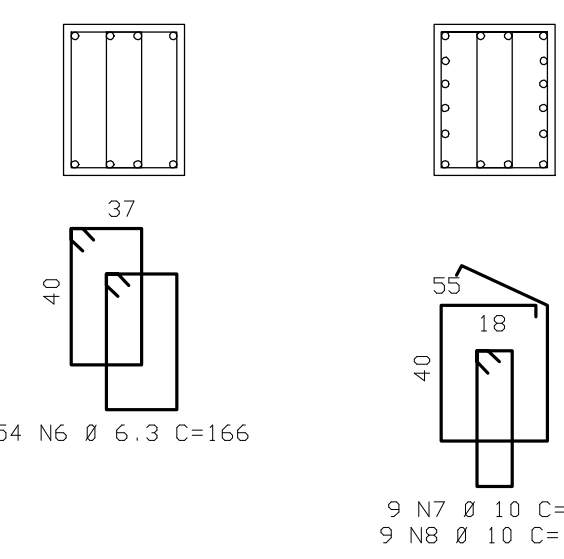


VE102H 60/45

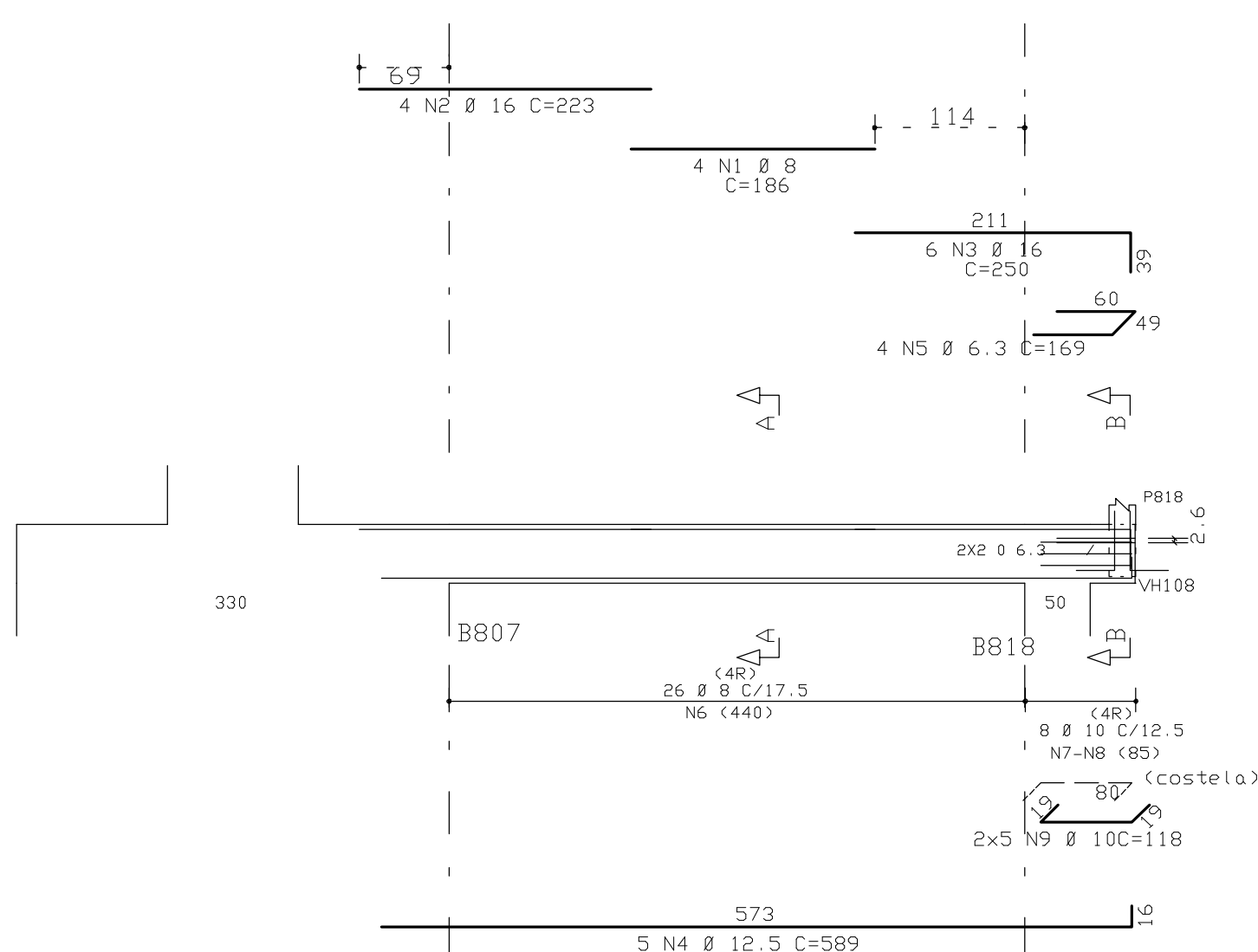


Corte A

Corte B

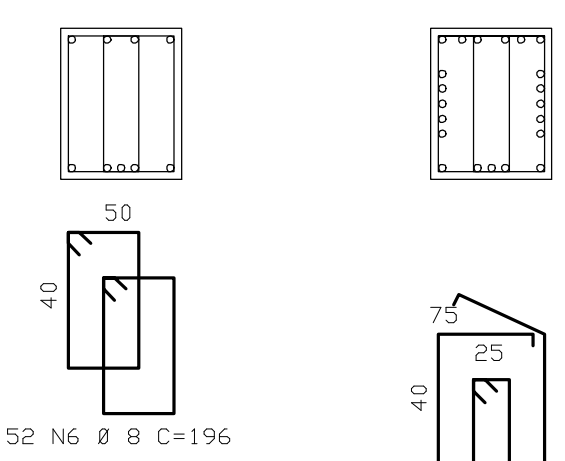


VE103H 80/45

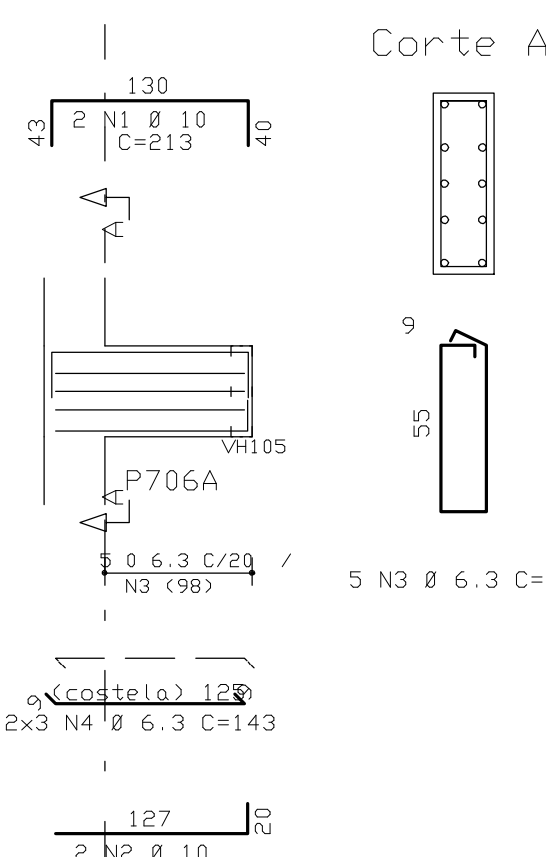


Corte A

Corte B



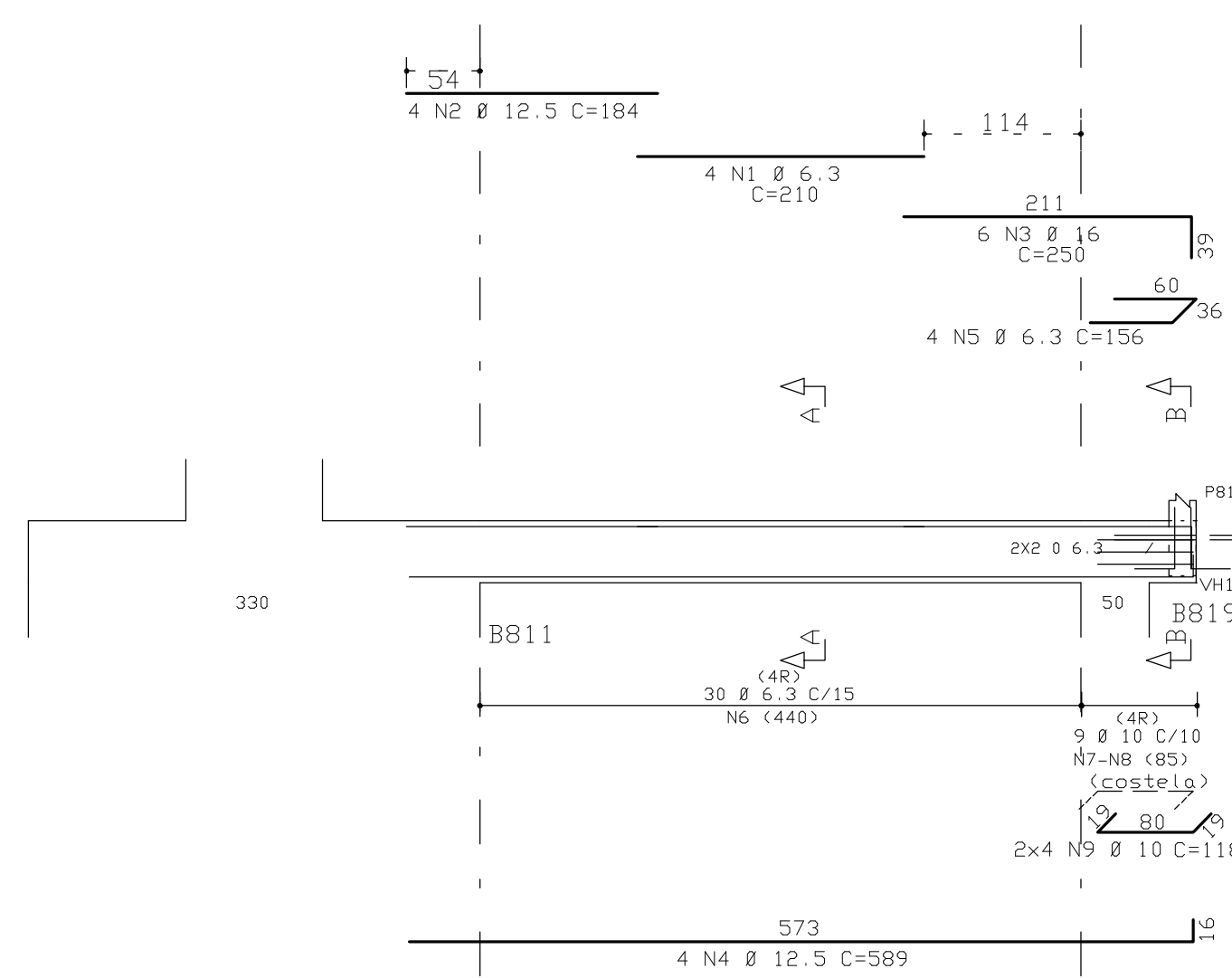
VH101 14/60



Corte A

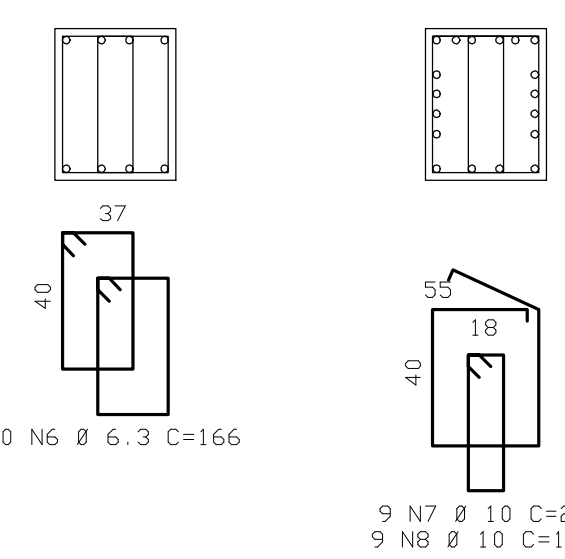
	ACD	POS	BIT (mm)	QUANT	COMPRIMENTO		ACD	POS	BIT (mm)	QUANT	COMPRIMENTO				
					UNIT (cm)	TOTAL (cm)					UNIT (cm)	TOTAL (cm)			
VE101H	S0A	1	20	4	644	2576	VH102	X21	S0A	1	16	4	330	1320	
	S0A	2	20	4	610	2440			S0A	2	12.5	5	6	889	1734
	S0A	3	6.3	3	195	390			S0A	3	6.3	3	170	330	
	S0A	4	8	62	302	18724			S0A	4	6.3	20	361	7220	
	S0A	5	8	9	497	4473			S0A	5	6.3	32	373	7456	
	S0A	6	8	9	224	2016	VH103		S0A	5	6.3	32	373	7456	
	S0A	7	12.5	14	629	8806			S0A	6	6.3	6	239	464	
VE102H	S0A	1	6.3	4	184	736			S0A	7	5	2	186	372	
	S0A	2	12.5	4	181	724			S0A	8	10	2	220	440	
	S0A	3	20	4	240	960			S0A	9	10	2	595	1110	
	S0A	4	12.5	4	551	2204			S0A	10	5	2	147	2938	
	S0A	5	10	10	226	2260			S0A	10	6.3	6	239	3234	
	S0A	6	6.3	54	166	8964	VH105		S0A	1	5	2	222	444	
	S0A	7	10	9	265	2385			S0A	2	10	2	163	326	
	S0A	8	10	9	137	1233			S0A	3	10	1	161	361	
	S0A	9	10	8	118	944			S0A	4	10	2	153	1026	
VE103H	S0A	1	8	4	186	744			S0A	5	6.3	2	138	276	
	S0A	2	16	4	223	892			S0A	6	6.3	22	138	276	
	S0A	3	16	6	250	1500	VH106		S0A	1	16	2	690	1380	
	S0A	4	12.5	5	589	2945			S0A	2	12.5	3	402	1286	
	S0A	5	6.3	4	159	636			S0A	3	12.5	3	271	542	
	S0A	6	8	52	196	10192			S0A	4	10	3	483	1039	
	S0A	7	10	8	325	2600			S0A	5	6.3	5	18	370	6660
	S0A	8	10	8	150	1200			S0A	6	6.3	5	185	3700	
	S0A	9	10	10	118	1180			S0A	7	6.3	12	401	8812	
VE104H	S0A	1	6.3	4	210	840			S0A	8	6.3	6	386	2516	
	S0A	2	12.5	4	184	736			S0A	9	6.3	6	401	6812	
	S0A	3	16	6	250	1500	VH107		S0A	1	16	3	662	1986	
	S0A	4	12.5	4	589	2356			S0A	2	12.5	3	341	1364	
	S0A	5	6.3	4	156	624			S0A	3	10	3	271	913	
	S0A	6	6.3	60	166	9960			S0A	4	12.5	3	342	1368	
	S0A	7	10	9	265	2385			S0A	5	6.3	12	373	4476	
	S0A	8	10	9	137	1233			S0A	6	8	13	353	1324	
	S0A	9	10	8	118	944			S0A	7	6.3	14	175	2450	
VE105H	S0A	1	20	4	634	2536			S0A	8	6.3	8	476	3808	
	S0A	2	20	4	591	2364			S0A	9	6.3	8	476	3808	
	S0A	3	6.3	3	195	390	VH108		S0A	1	10	2	232	304	
	S0A	4	8	62	302	18724			S0A	2	10	2	217	424	
	S0A	5	8	9	497	4473			S0A	3	10	2	862	1728	
	S0A	6	8	9	224	2016			S0A	4	10	2	197	394	
	S0A	7	12.5	14	624	8876			S0A	5	5	2	146	292	
VH101	S0A	1	10	2	213	426			S0A	6	6	2	426	852	
	S0A	2	10	1	147	294			S0A	7	10	2	218	436	
	S0A	3	6.3	5	150	750			S0A	8	10	2	667	1334	
	S0A	4	6.3	6	143	858			S0A	9	10	2	1030	2040	
									S0A	10	10	2	520	1040	

VE104H 60/45

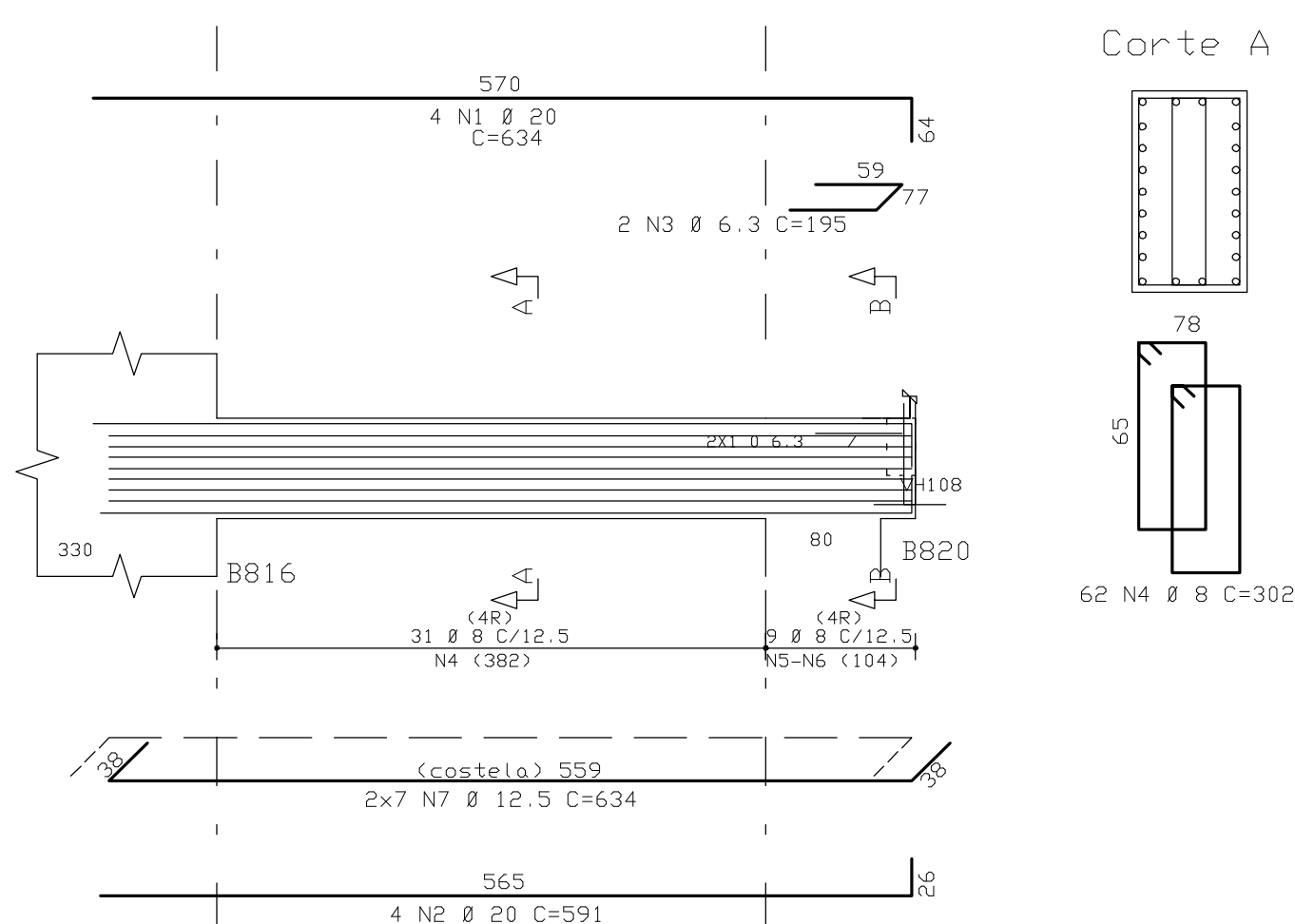


Corte A

Corte B

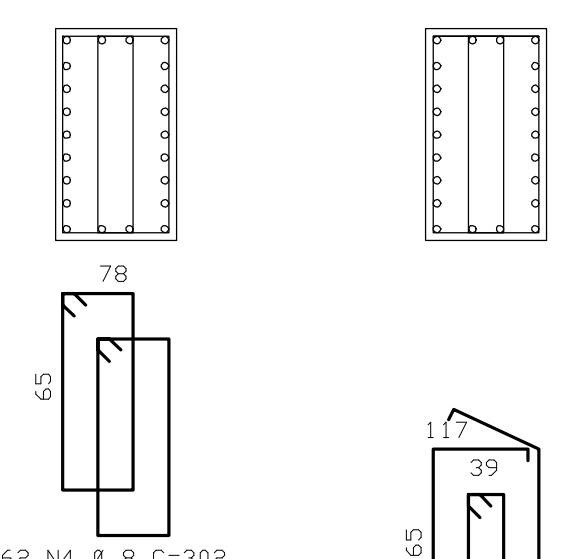


VE105H 122/70

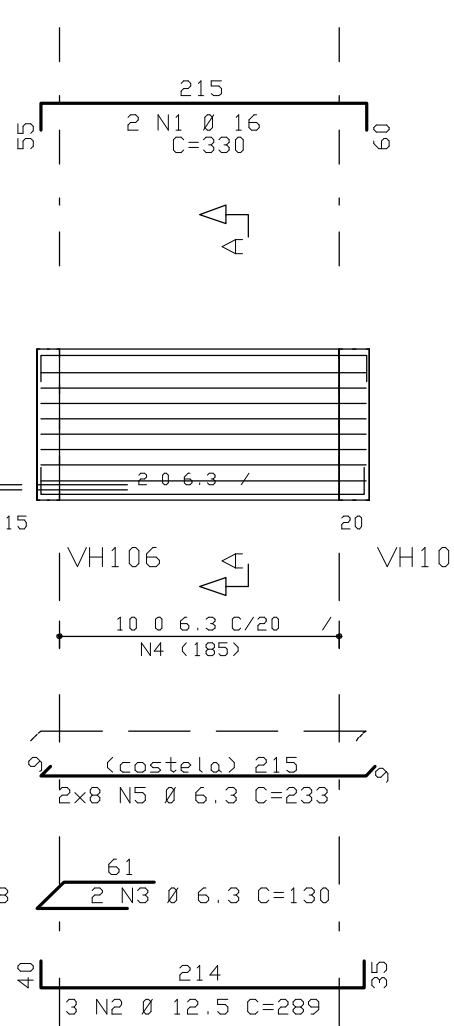


Corte A

Corte B

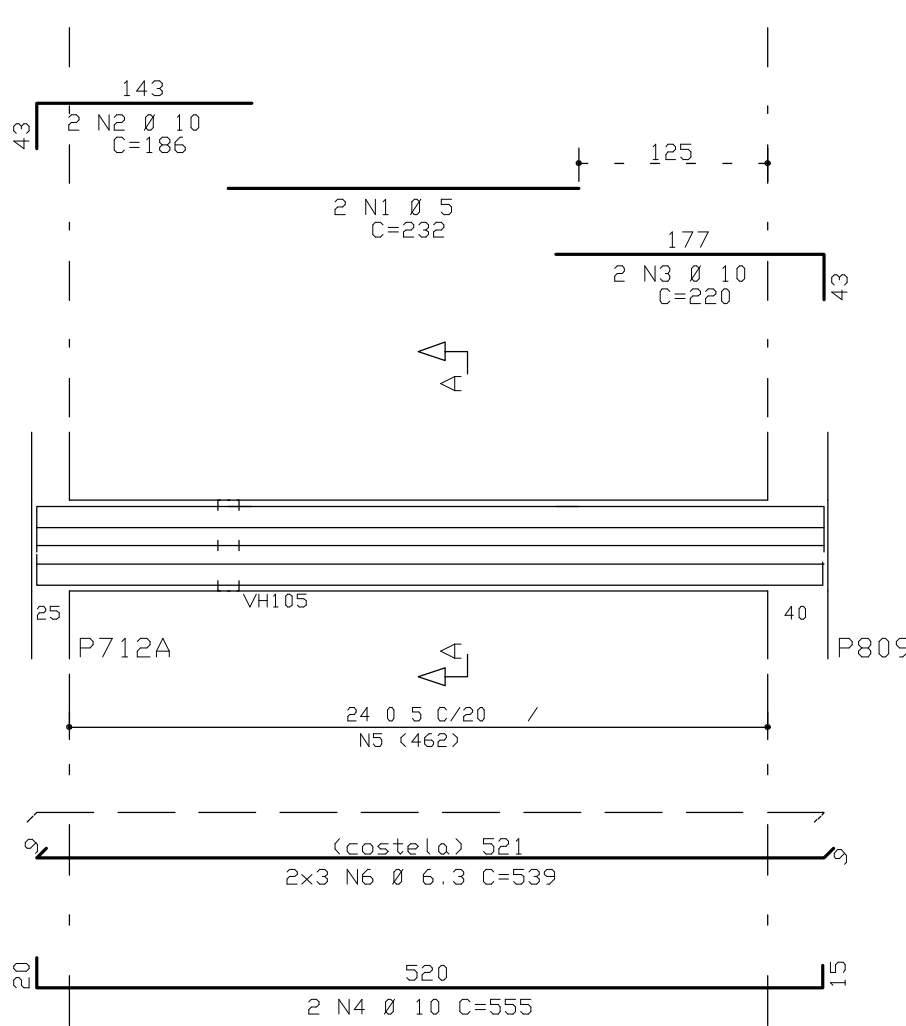


VH102/VH104 14/170



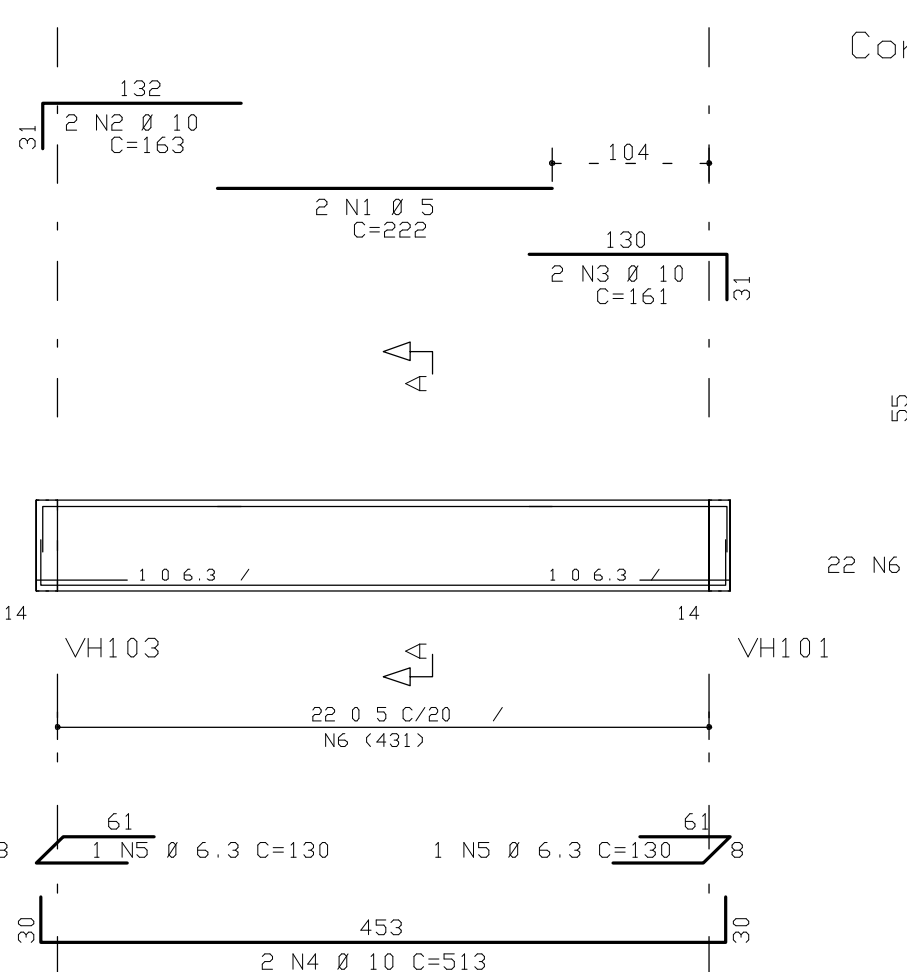
Corte A

VH103 14/60



Corte A

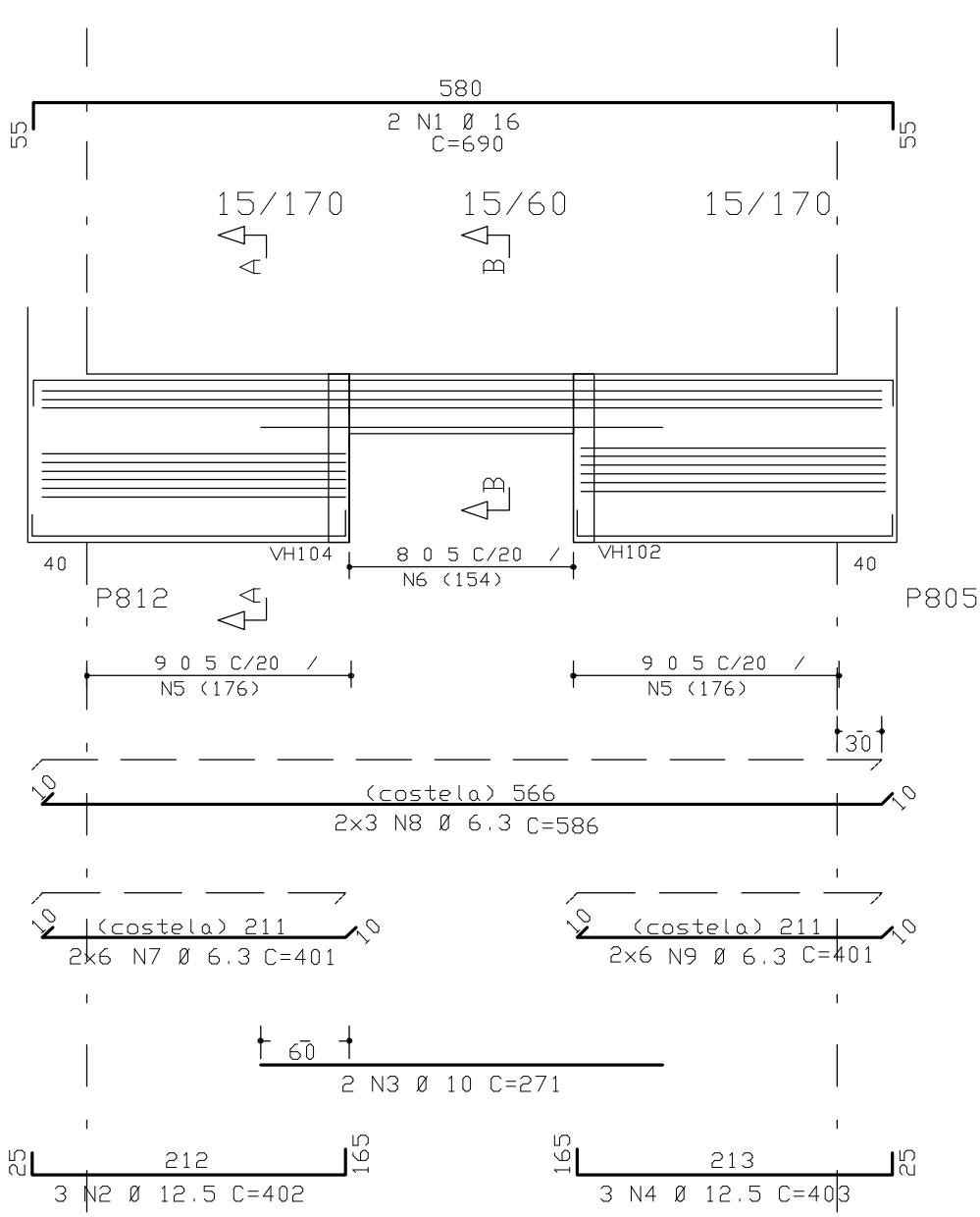
VH105 14/60



Corte A

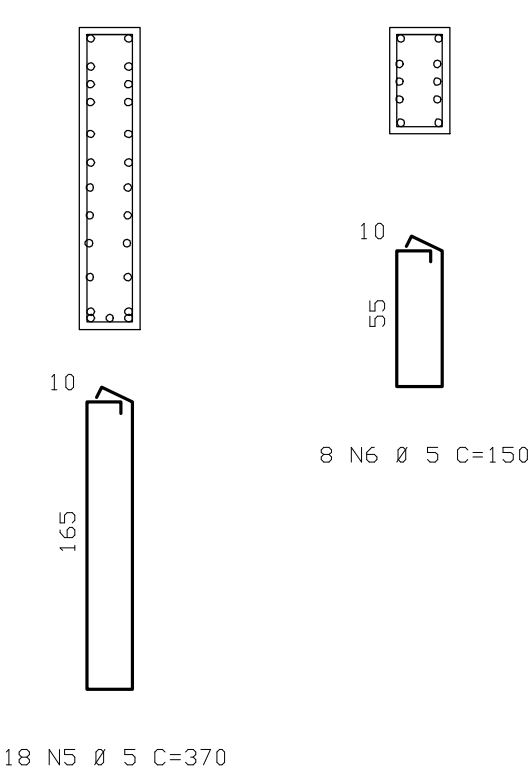
RESUMO ACD CA 50-60			
ACD	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	312	176
S0A	6.3	104	50
S0A	8	614	245
S0A	10	299	188
S0A	12.5	335	335
S0A	16	86	137
S0A	20	189	272
Peso Total 60B =			50 kg
Peso Total S0A =			1354 kg

VH106 15/VAR

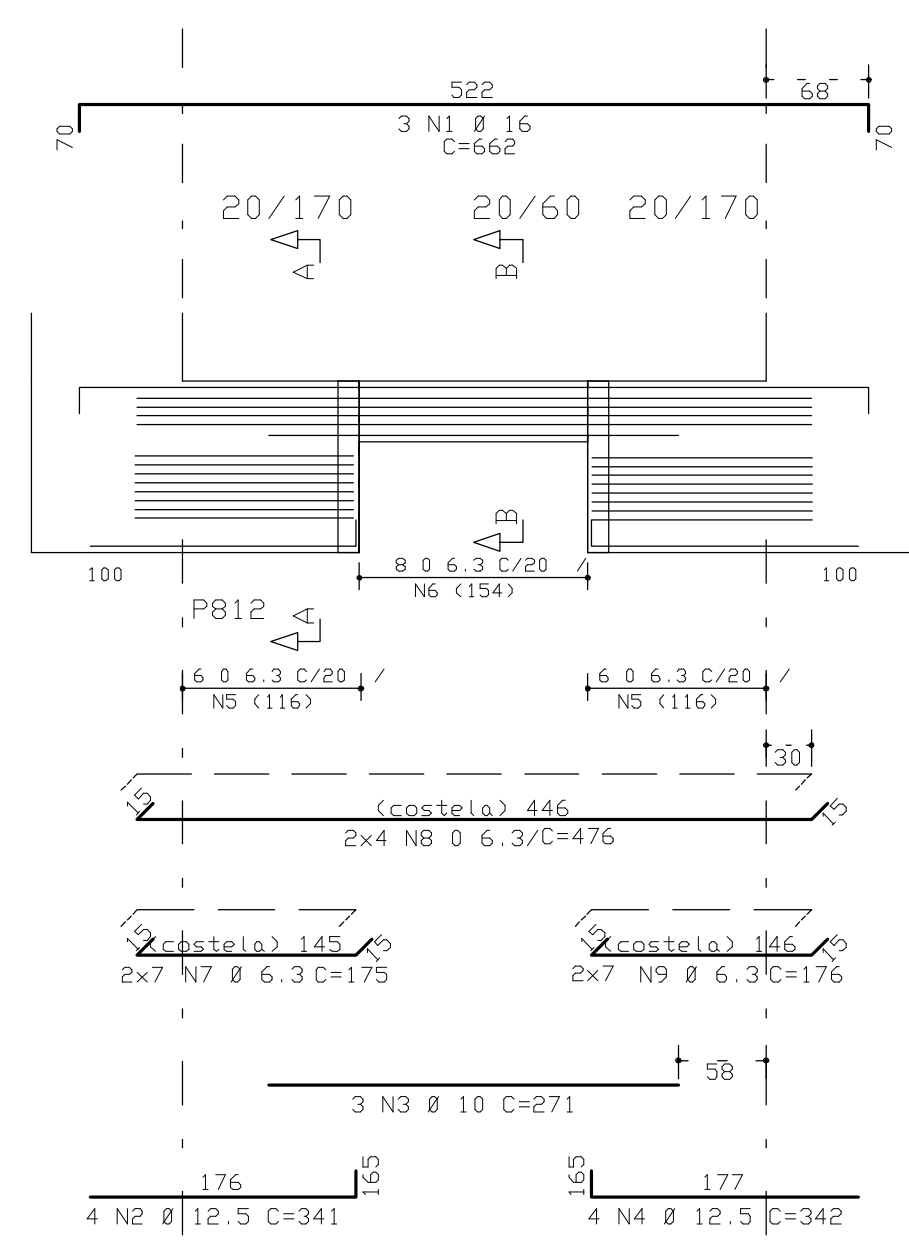


Corte A

Corte B

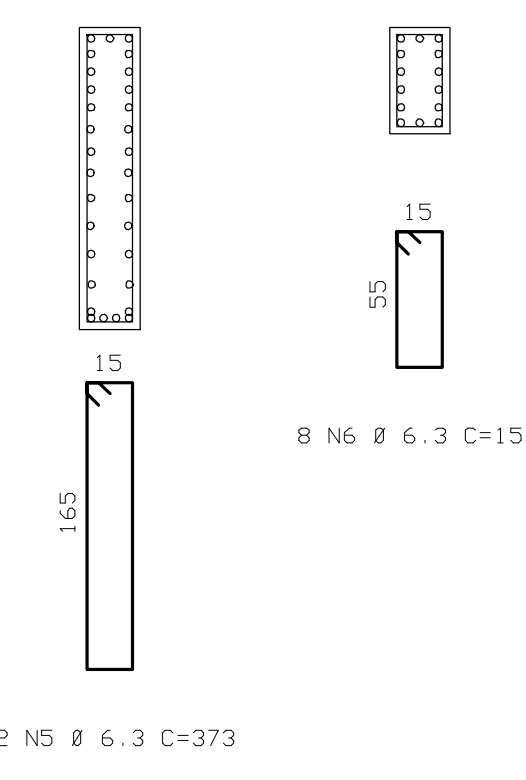


VH107 20/VAR

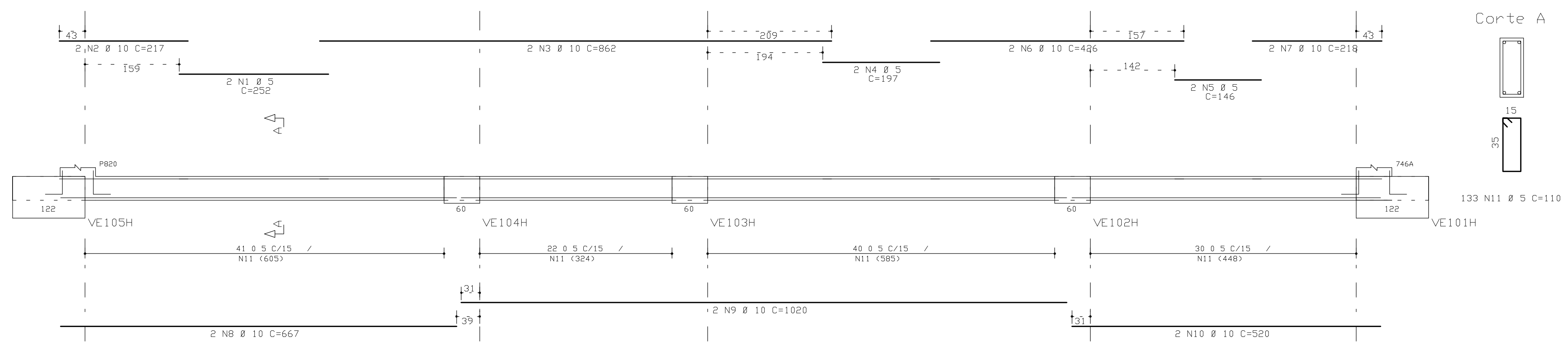


Corte A

Corte B



VH108 20/40



Corte A

COBRIMENTO DA ARMADURA:

- LAJES = 2,0 cm
 - VIGAS E PILARES = 2,5 cm
 - BLOCOS, BALDRAMES E CONTENEDORES (FACE EM CONTATO COM A TERRA) = 3,0 cm
1. ESSES COBRIMENTOS DEVEM SER GARANTIDOS COM O USO DE ESPACADORES OU PASTILHAS.
- COBRIMENTOS ESPECIFICADOS EM CONTRÁRIO AOS VALORES INDICADOS ACIMA, ESTÃO INDICADOS NOS DESENHOS EM FORMAS DOS PAVIMENTOS.

NORMAS UTILIZADAS:

- NBR-6118/2003 - PROJETO E EXECUCAO DE OBRAS DE CONCRETO ARMADO
- NBR-6120/1980 - CARGAS PARA O CALCULO DE ESTRUTURAS DE EDIFICACOES

FCK = 35 MPa

EC = 28 GPa

A/C = 0,65

(MÓDULO DE ELASTICIDADE SECANTE AOS 28 DIAS).

(FATOR AGUA CIMENTO)

0	12/02/2010	EMISSÃO INICIAL	
REV	DATA	DESCRIÇÃO	
Simetria Engenharia PROJETOS ESTRUTURAIS			
PROJETO ESTRUTURAL			
CLIENTE:	DISCO INCORPORADORA E IMOBILIÁRIA LTDA		
OBRA:	EDIFÍCIO RESIDENCIAL OLYMPIQUE		
ENGENHEIRO OBRAS:	ÁREA ESPECIAL D4 LOTES G e H - GUARA/DF		
DESCRIÇÃO:	ARMAÇÃO DAS VIGAS DO 2º SUBSÓLO		
DESENHO:	TORRE D - JUNTA H		
DESENHISTA:	105/HELENA	DATA:	12/02/2010
ESCALA:	1:50	UNIDADE:	cm
ARQUIVO PLT:	421-EST-194-XXX-R00-PLT		
PROPRIETÁRIO:	RESPONSÁVEL TÉCNICO		
RESPONSÁVEL TÉCNICO PELO PROJETO ESTRUTURAL			
SIMETRIA ENGENHARIA E PROJETOS S/C LTDA			
CREA: 0725/RR			

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