

V 1

Escala 1:50

loje reservatório

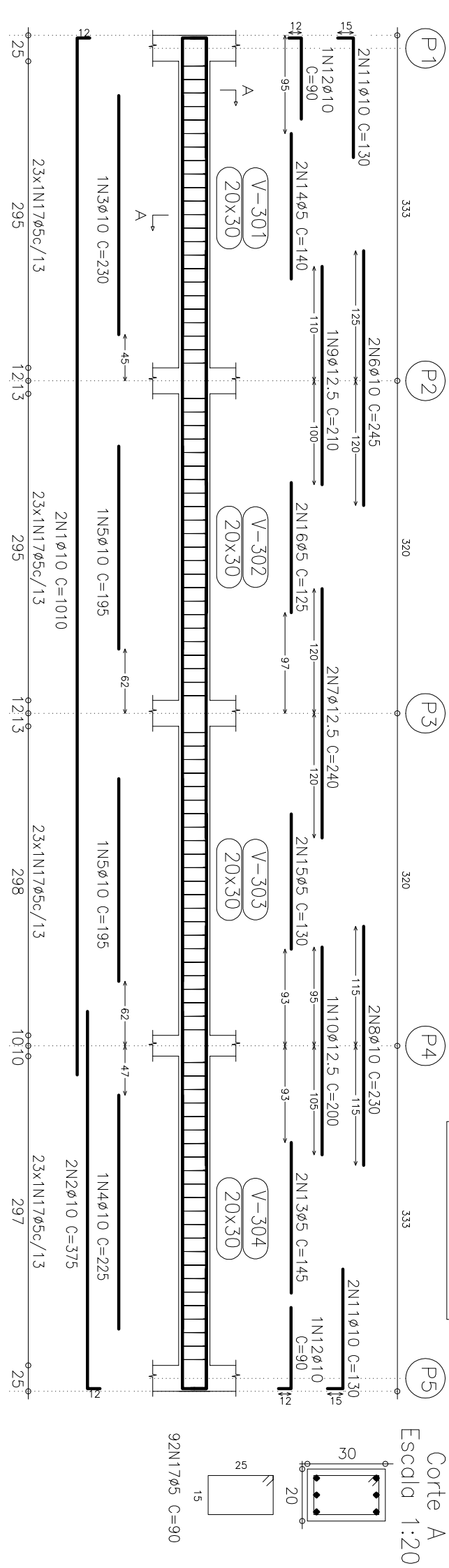
Desenho de vigas

Concreto: C20, em geral

Aço: CA-50-A e CA-60-B

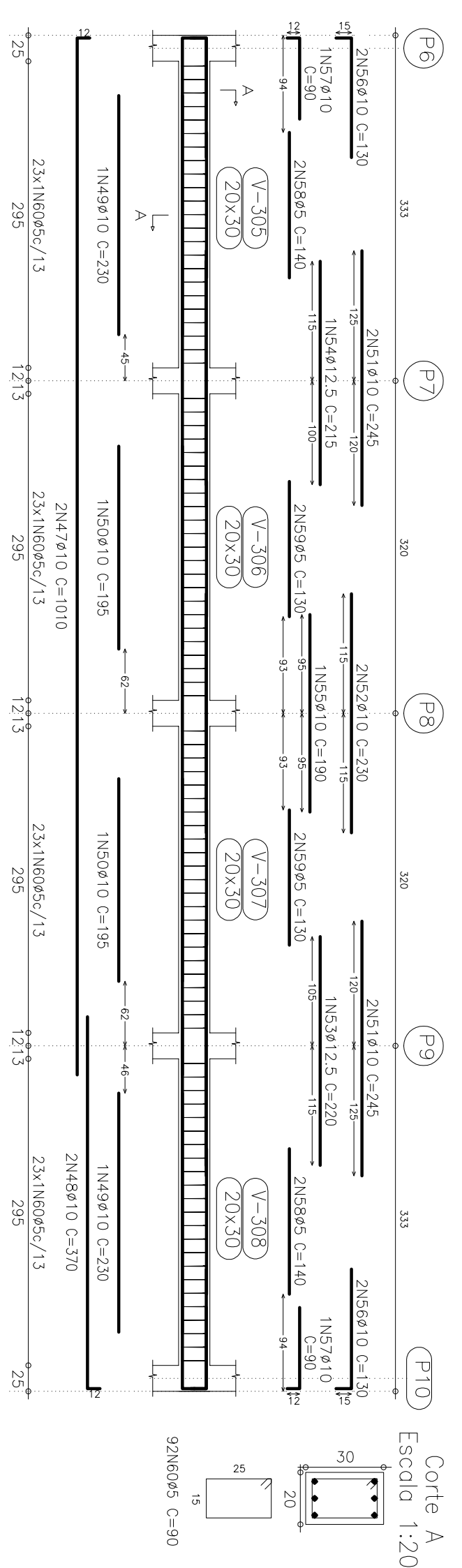
Escala vigas: 1:50

Escala seções: 1:20



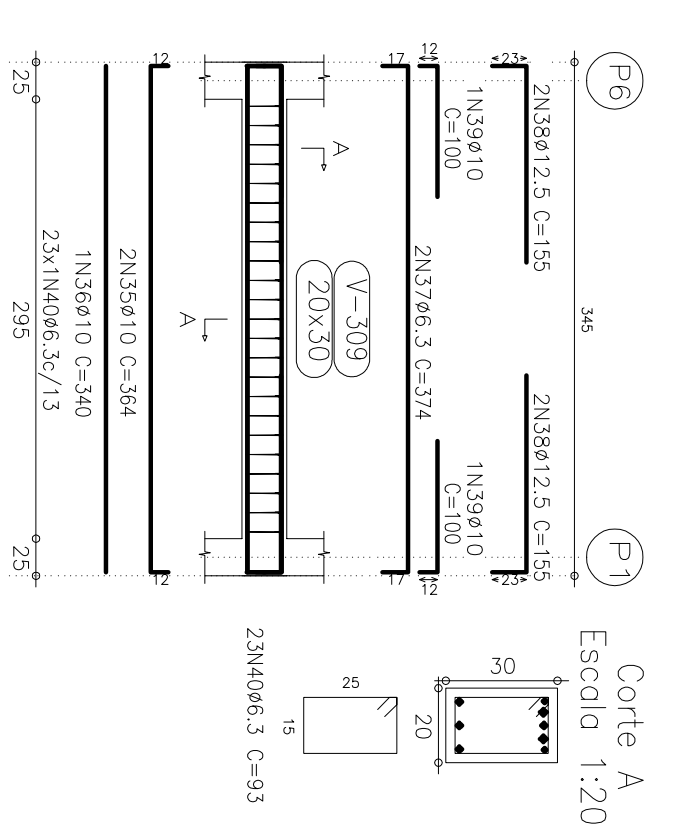
V 2

Escala 1:50



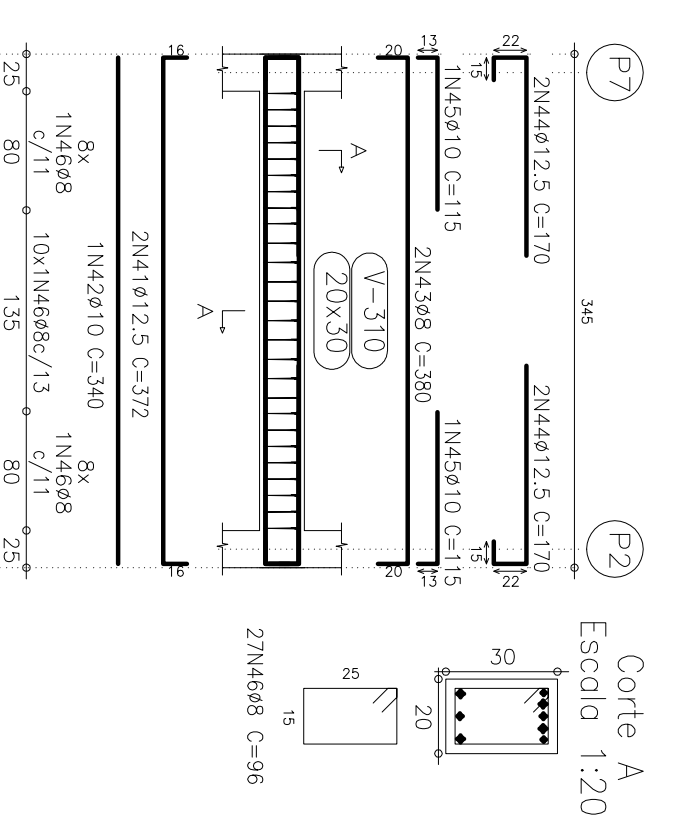
V 3

Escala 1:50



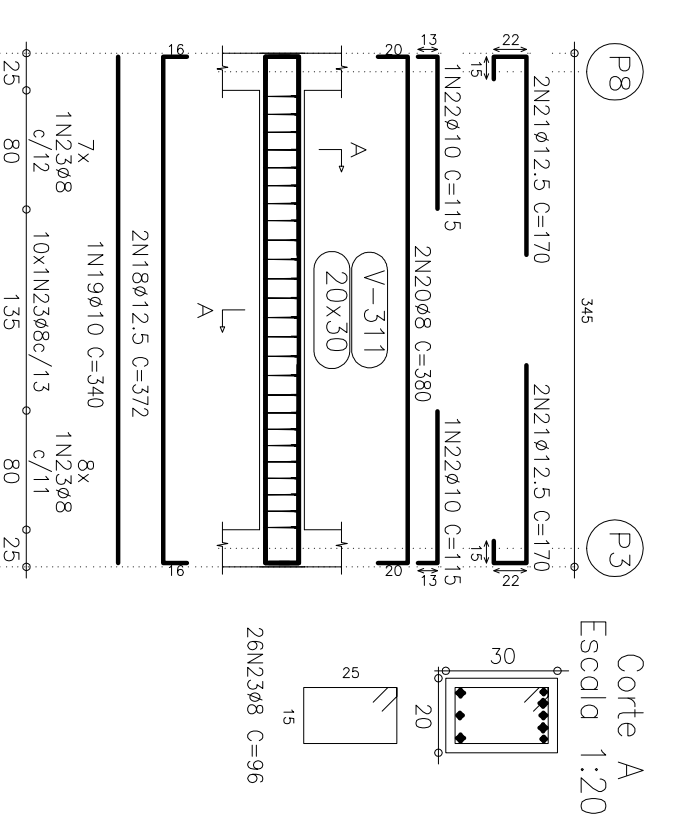
V 4

Escala 1:50



V 5

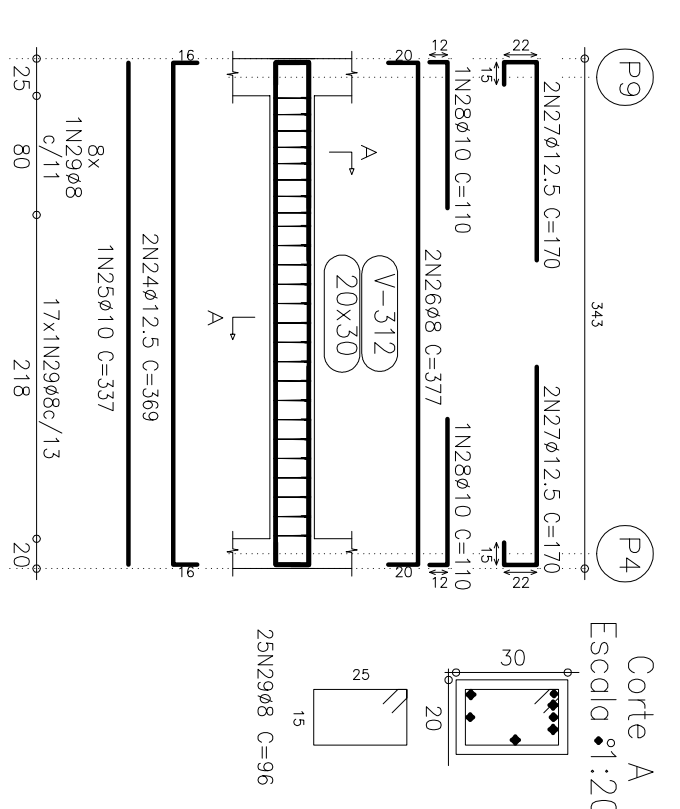
Escala 1:50



Resumo Aço	Comp. total	Peso+10%	Total
loje reservatório			
Vigas			
CA-50-A	ø6.3	57.7	16
	ø8	95.7	4.1
	ø10	141.7	98
	ø12.5	78.3	85
CA-60-B	ø5	187.2	32
Total			272

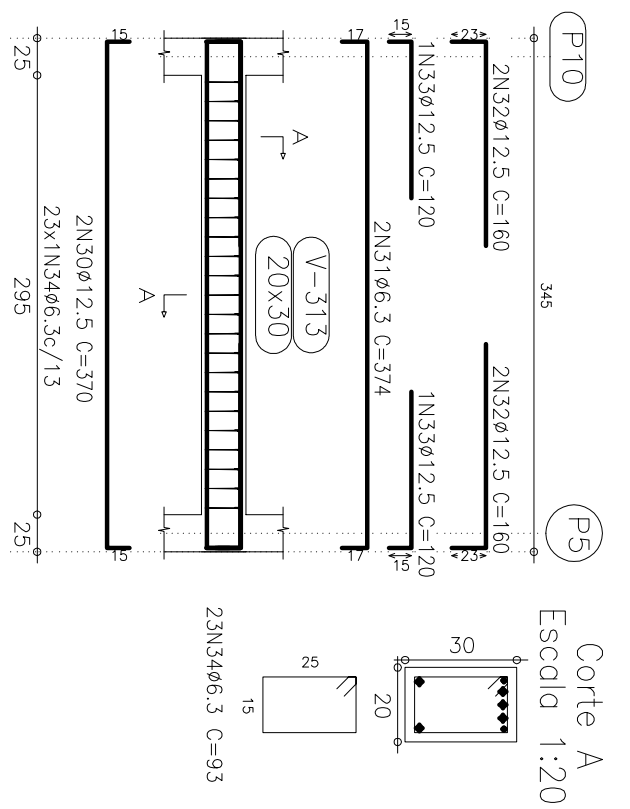
V 6

Escala 1:50



V 7

Escala 1:50



Elemento	Pos.	Diam.	O.	Dob.	Ret.Dob.	Comp.	Total	CA-50-A	CA-60-B
V 1	1	ø10	2	12	998	12	1010	2020	12.7
	2	ø10	2	12	363	12	375	750	4.7
	3	ø10	1	12	230	12	242	484	1.4
	4	ø10	1	12	225	12	237	474	1.4
	5	ø10	2	12	195	12	207	414	1.4
	6	ø10	2	12	245	12	257	514	1.4
	7	ø12.5	2	12	240	12	252	504	1.4
	8	ø10	2	12	230	12	242	484	1.4
	9	ø12.5	1	12	210	12	222	444	1.4
	10	ø12.5	1	12	200	12	212	424	1.4
	11	ø10	4	12	115	12	127	254	1.1
	12	ø10	2	12	78	12	90	180	0.5
	13	ø5	2	12	145	12	157	314	0.4
	14	ø5	2	12	140	12	152	304	0.4
	15	ø5	2	12	130	12	142	284	0.4
	16	ø5	2	12	125	12	137	274	0.4
	17	ø5	2	12	125	12	137	274	0.4
	Total						8280	16520	13.0

V 5	18	ø12.5	2	16	340	16	356	712	744	7.3
	19	ø10	340	340	340	340	340	340	340	2.1
	20	ø8	2	20	340	20	360	720	760	3.0
	21	ø12.5	4	37	133	133	170	680	6.7	1.4
	22	ø10	2	13	102	102	115	230	230	1.4
	23	ø8	25	12	98	98	96	2400	9.4	9.4
	Total+10%:						32.9			
V 6	24	ø12.5	2	16	337	16	353	706	738	7.2
	25	ø10	1	20	337	20	357	714	754	3.0
	26	ø8	4	37	133	133	170	680	6.7	1.4
	27	ø12.5	4	12	98	98	96	2400	9.4	9.4
	28	ø10	2	12	98	98	96	2400	9.4	9.4
	29	ø8	25	12	98	98	96	2400	9.4	9.4
	Total+10%:						32.8			
V 7	30	ø12.5	2	15	340	15	356	712	744	7.3
	31	ø6.3	2	17	340	17	357	714	748	1.8
	32	ø12.5	4	23	137	137	160	640	6.3	1.3
	33	ø12.5	2	15	105	105	120	240	2.4	2.4
	34	ø6.3	23	12	88	88	93	2139	5.3	5.3
	Total+10%:						25.4			
V 3	35	ø10	2	12	340	12	356	712	744	4.6
	36	ø10	1	17	340	17	357	714	748	1.8
	37	ø6.3	2	17	340	17	357	714	748	1.8
	38	ø12.5	4	23	132	132	155	620	6.1	1.3
	39	ø10	2	12	88	88	93	2139	5.3	5.3
	40	ø6.3	23	12	88	88	93	2139	5.3	5.3
	Total+10%:						23.3			
V 4	41	ø12.5	2	16	340	16	356	712	744	7.3
	42	ø10	1	20	340	20	360	720	760	3.0
	43	ø8	4	37	133	133	170	680	6.7	1.4
	44	ø12.5	4	12	102	102	115	230	230	1.4
	45	ø10	2	13	102	102	115	230	230	1.4
	46	ø8	26	12	98	98	96	2496	9.8	9.8
	Total+10%:						33.3			
V 2	47	ø10	2	12	998	12	1010	2020	12.7	12.7
	48	ø10	2	12	358	12	370	740	740	4.6
	49	ø10	2	12	230	12	242	484	2.9	2.9
	50	ø10	2	12	195	12	207	414	2.4	2.4
	51	ø10	4	24	245	245	245	980	6.2	6.2
	52	ø10	2	22	230	22	242	484	2.9	2.9
	53	ø12.5	1	22	220	22	232	464	2.2	2.2
	54	ø12.5	1	21	215	21	227	454	2.1	2.1
	55	ø10	1	190	190	190	190	190	1.2	1.2
	56	ø10	4	115	115	115	130	520	3.3	3.3
	57	ø10	2	12	78	15	90	180	1.1	1.1
	58	ø5	4	140	140	140	140	560	0.8	0.8
	59	ø5	4	140	140	140	140	560	0.8	0.8
	60	ø5	92	130	130	130	130	520	13.0	13.0
	Total+10%:						45.8			16.2
	ø5:						0.0			32.4
	ø6.3:						13.6			0.0
	ø8:						41.3			0.0
	ø10:						97.7			0.0
	ø12.5:						84.9			0.0
	Total:						239.5			32.4

SECRETARIA DE OBRAS PÚBLICAS

DEPARTAMENTO DE GESTÃO DE OBRAS DE PRÓPRIOS PÚBLICOS

CENTRO ADMINISTRATIVO FERNANDO FERRARI - AV. BORGES DE MEDEIROS N. 1501 - POA/RS

DIVISÃO

PROJETOS COMPLEMENTARES

DIRETOR D.O.

ARO. ODIR BACCARIN

RESPONSÁVEL TÉCNICO P/ AMPLIAÇÃO:

ENG. CIVIL ANA LUCIA MOSELE - CREA 37.222

ENGR AYRTON C. OLIVEIRA - CREA 70066

DESENHO

ACAD. MARISA CASTRO

OBRA

UNIDADE PRONTO ATENDIMENTO - UPA III

ÁREA

1.485,50 m²

ENDERECO

PROJETO PADRAO

MUNICIPIO

PROJETO

ESTRUTURAL

ASSUNTO

VIGAS DO RESERVATORIO

ESCALA

INDICADA

OUT 2009

C04/07

Nº ARQUIVO

XXX-EST-PL-VIG1-R000