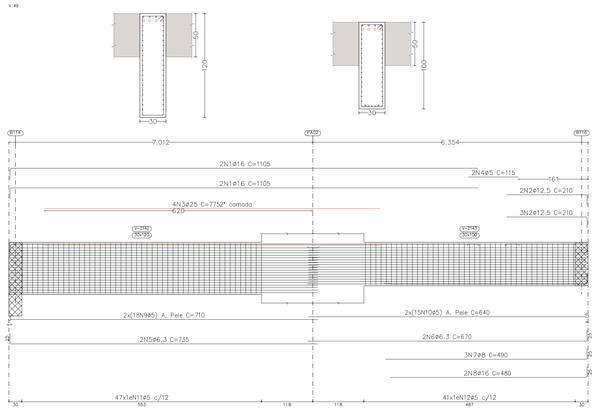
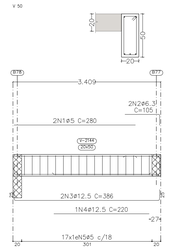
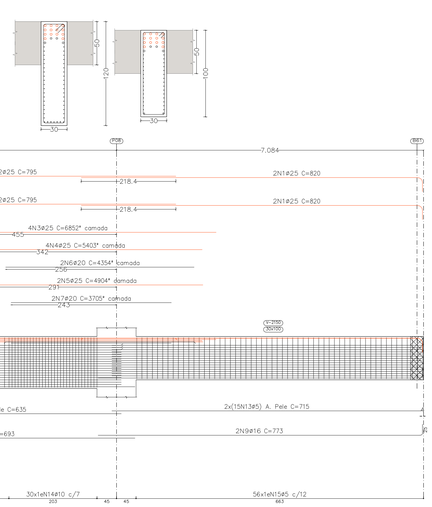
V 49



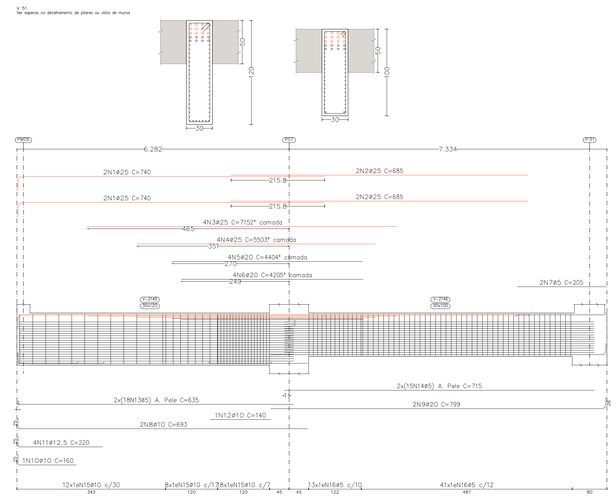
V 50



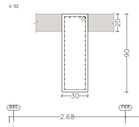
V 53
Ver esperas no detalhamento de pilares ou vista de muros

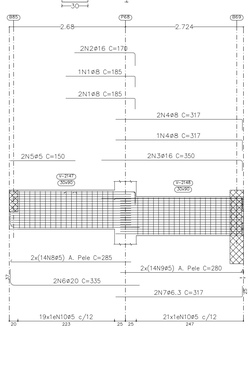


V 57
Ver esperas no detalhamento de pilares ou vista de muros

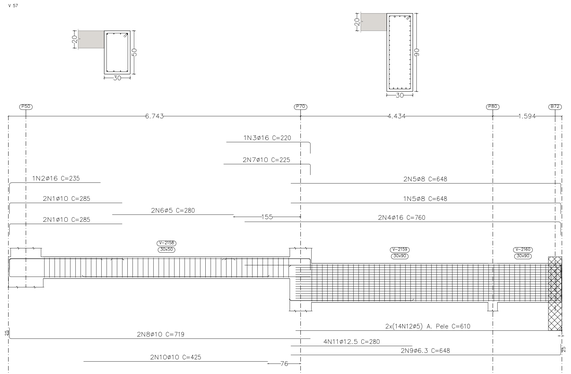


V 52

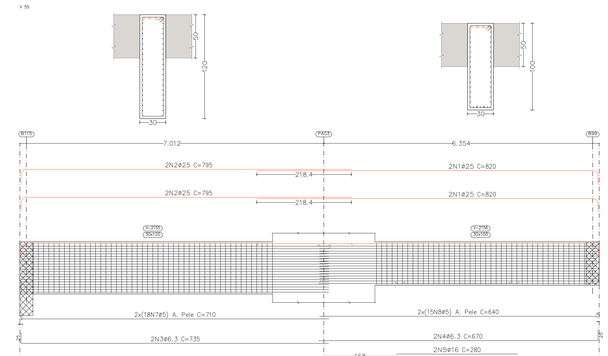




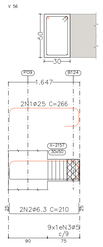
V 57



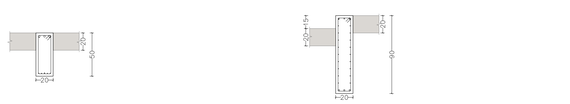
V 55

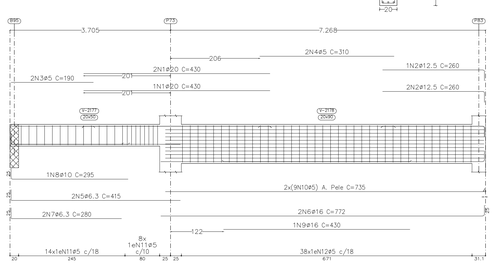


V 56

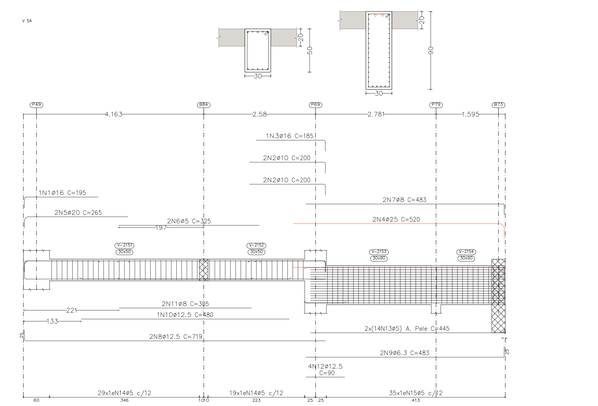


V 66

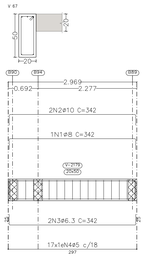




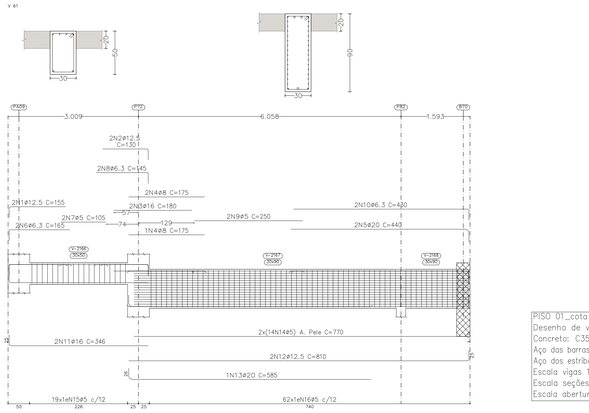
V 54



V 67



V 61



PISO 01_cota 5.00
Desenho de vigas
Concreto: C35, em geral
Aço das barras: CA-50 e CA-60
Aço das estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:25
Escala aberturas 1:25

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 61	1	ø12.5	2	130	155	310	3.0	
	2	ø12.5	2	105 15	130	260	2.5	
	3	ø16	2	180	180	360	5.7	
	4	ø8	3	175	175	525	2.1	
	5	ø20	2	411 15	440	880	21.7	
	6	ø6.3	2	142	165	330	0.8	
	7	ø5	2	105	105	210		0.3
	8	ø6.3	2	120 15	145	290	0.7	
	9	ø5	2	250	250	500		0.8
	10	ø6.3	2	405 15	430	860	2.1	
	11	ø16	2	321	346	692	10.9	
	12	ø12.5	2	785 15	810	1620	15.6	
	13	ø20	1	559	585	585	14.4	
	14	ø5	28	770	770	21560		33.8
	15	ø5	19	15 95 25	148	2812		4.4
	16	ø5	62	15 97 25	228	14136		22.2
						Total+10%:	87.5	67.7
						ø5:	0.0	67.7
						ø6.3:	4.0	0.0
						ø8:	2.3	0.0
						ø12.5:	23.2	0.0
						ø16:	18.3	0.0
						ø20:	39.7	0.0
						Total:	87.5	67.7

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 57	1	ø10	4	280	285	1140	7.0	
	2	ø16	1	215	235	235	3.7	
	3	ø16	1	184 15	220	220	3.5	
	4	ø16	2	729 15	760	1520	24.0	
	5	ø8	3	623	648	1944	7.7	
	6	ø5	2	280	280	560		0.9
	7	ø10	2	200 15	225	450	2.8	
	8	ø10	2	684 15	719	1438	8.9	
	9	ø6.3	2	623 15	648	1296	3.2	
	10	ø10	2	425	425	850	5.2	
	11	ø12.5	4	280	280	1120	10.8	
	12	ø5	28	610	610	17080		26.8
	13	ø5	48	15 95 25	148	7104		11.2
	14	ø5	49	15 97 25	228	11172		17.5
						Total+10%:	84.5	62.0
V 66	1	ø20	3	430	430	1290	31.8	
	2	ø12.5	3	235 15	260	780	7.5	
	3	ø5	2	190	190	380		0.6
	4	ø5	2	310	310	620		1.0
	5	ø6.3	2	390	415	830	2.0	
	6	ø16	2	747 15	772	1544	24.4	
	7	ø6.3	2	255	280	560	1.4	
	8	ø10	1	270	295	295	1.8	
	9	ø16	1	430	430	430	6.8	
	10	ø5	18	735	735	13230		20.8
	11	ø5	22	15 95 25	128	2816		4.4
	12	ø5	38	15 97 25	208	7904		12.4
						Total+10%:	83.3	43.1
V 67	1	ø8	1	292	342	342	1.4	
	2	ø10	2	292 15	342	684	4.2	
	3	ø6.3	2	292 15	342	684	1.7	
	4	ø5	17	15 95 25	128	2176		3.4
						Total+10%:	8.0	3.7
						ø5:	0.0	108.8
						ø6.3:	9.1	0.0
						ø8:	10.0	0.0
						ø10:	33.0	0.0
						ø12.5:	20.1	0.0
						ø16:	68.6	0.0
						ø20:	35.0	0.0
						Total:	175.8	108.8

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 55	1	ø25	4	788 12	820	3280	126.4	
	2	ø25	4	763 12	795	3180	122.5	
	3	ø6.3	2	710	735	1470	3.6	
	4	ø6.3	2	645 15	670	1340	3.3	
	5	ø16	2	280	280	560	8.8	
	6	ø8	3	240	240	720	2.8	
	7	ø5	36	710	710	25560		40.1
	8	ø5	30	640	640	19200		30.1
	9	ø5	47	15 95 25	288	13536		21.3
	10	ø5	41	15 97 25	248	10168		16.0
						Total+10%:	294.1	118.3
V 56	1	ø25	2	160 12 160 12	266	532	20.5	
	2	ø6.3	2	160 15 160 15	210	420	1.0	
	3	ø5	9	15 95 25	148	1332		2.1
						Total+10%:	23.7	2.3
						ø5:	0.0	120.6
						ø6.3:	8.7	0.0
						ø8:	3.0	0.0
						ø16:	9.7	0.0
						ø25:	296.4	0.0
						Total:	317.8	120.6

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 54	1	ø16	1	170	195	195	3.1	
	2	ø10	4	175 15	200	800	4.9	
	3	ø16	1	150 15	185	185	2.9	
	4	ø25	2	487 15	520	1040	40.1	
	5	ø20	2	239	265	530	13.1	
	6	ø5	2	325	325	650		1.0
	7	ø8	2	458 15	483	966	3.8	
	8	ø12.5	2	684	719	1438	13.9	
	9	ø6.3	2	458 15	483	966	2.4	
	10	ø12.5	1	480	480	480	4.6	
	11	ø8	2	305	305	610	2.4	
	12	ø12.5	4	90	90	360	3.5	
	13	ø5	28	445	445	12460		19.6
	14	ø5	48	15 95 25	148	7104		11.2
	15	ø5	35	15 97 25	228	7980		12.5
						Total+10%:	104.2	48.7
						ø5:	0.0	48.7
						ø6.3:	2.7	0.0
						ø8:	6.8	0.0
						ø10:	5.4	0.0
						ø12.5:	24.2	0.0
						ø16:	6.6	0.0
						ø20:	14.4	0.0
						ø25:	44.1	0.0
						Total:	104.2	48.7

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 49	1	ø16	4	1079	1105	4420	69.8	
	2	ø12.5	5	185 15	210	1050	10.1	
	3	ø25	4	775	775	3100	119.5	
	4	ø5	2	115	115	230		0.4
	5	ø6.3	2	710	735	1470	3.6	
	6	ø6.3	2	645 15	670	1340	3.3	
	7	ø8	3	465 15	490	1470	5.8	
	8	ø16	2	455	480	960	15.2	
	9	ø5	36	710	710	25560		40.1
	10	ø5	30	640	640	19200		30.1
	11	ø5	47	15 95 25	288	13536		21.3
	12	ø5	41	15 97 25	248	10168		16.0
						Total+10%:	250.0	118.7
V 50	1	ø5	2	280	280	560		0.9
	2	ø6.3	2	80 15	105	210	0.5	
	3	ø12.5	2	338 15	386	772	7.4	
	4	ø12.5	1	220	220	220	2.1	
	5	ø5	17	15 95 25	128	2176		3.4
						Total+10%:	11.0	4.7
						ø5:	0.0	123.4
						ø6.3:	8.2	0.0
						ø8:	6.3	0.0
						ø12.5:	21.5	0.0
						ø16:	93.5	0.0
						ø25:	131.5	0.0
						Total:	261.0	123.4

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 51	1	ø25	4	708	740	2960	114.1	
	2	ø25	4	685	685	2740	105.6	
	3	ø25	4	715	715	2860	110.2	
	4	ø25	4	550	550	2200	84.8	
	5	ø20	4	440	440	1760	43.4	
	6	ø20	4	420	420	1680	41.4	
	7	ø5	2	205	205	410		0.6
	8	ø10	2	668	693	1386	8.5	
	9	ø20	2	773	799	1598	39.4	
	10	ø10	1	135	160	160	1.0	
	11	ø12.5	4	195	220	880	8.5	
	12	ø10	1	140	140	140	0.9	
	13	ø5	36	635	635	22860		35.9
	14	ø5	30	715	715	21450		33.7
	15	ø10	38	15 95 25	296	11248	69.3	
	16	ø5	54	15 97 25	248	13392		21.0
						Total+10%:	289.8	100.3
V 52	1	ø8	3	160 15	185	555	2.2	
	2	ø16	2	140 18	170	340	5.4	
	3	ø16	2	325 15	350	700	11.1	
	4	ø8	3	292 15	317	951	3.8	
	5	ø5	2	150	150	300		0.5
	6	ø20	2	298	335	670	16.5	
	7	ø6.3	2	292 15	317	634	1.6	
	8	ø5	28	279	285	7980		12.5
	9	ø5	28	280	280	7840		12.3
	10	ø5	40	15 95 25	228	9120		14.3
						Total+10%:	44.7	43.6
						ø5:	0.0	143.9
						ø6.3:	1.8	0.0
						ø8:	6.6	0.0
						ø10:	87.7	0.0
						ø12.5:	9.3	0.0
						ø16:	118.2	0.0
						ø20:	154.7	0.0
						ø25:	456.2	0.0
						Total:	734.5	143.9

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 53	1	ø25	4	788 12	820	3280	126.4	
	2	ø25	4	763 12	795	3180	122.5	
	3	ø25	4	685	685	2740	105.6	
	4	ø25	4	540	540	2160	83.2	
	5	ø25	2	490	490	980	37.8	
	6	ø20	2	435	435	870	21.5	
	7	ø20	2	370	370	740	18.3	
	8	ø10	2	668	693	1386	8.5	
	9	ø16	2	748 15	773	1546	24.4	
	10	ø10	1	135	160	160	1.0	
	11	ø12.5	4	195	220	880	8.5	
	12	ø5	36	635	635	22860		35.9
	13	ø5	30	715	715	21450		33.7
	14	ø10	43	15 95 25	296	12728	78.4	
	15	ø5	56	15 97 25	248	13888		21.8
						Total+10%:	399.7	100.5
						ø5:	0.0	100.5
						ø10:	96.7	0.0
						ø12.5:	9.3	0.0
						ø16:	26.9	0.0
						ø20:	43.7	0.0
						ø25:	523.1	0.0
						Total:	699.7	100.5

VERSÃO	DATA	DES.	VER.	APR.	DESCRIÇÃO
03	05/2022	D.N.	S.F.	S.F.	REVISÃO GERAL
02	03/2022	D.N.	S.F.	S.F.	REVISÃO GERAL
01	10/2021	S.F.	S.F.	S.F.	REVISÃO GERAL
00	08/2021	S.F.	S.F.	S.F.	EMISSÃO INICIAL

RESPONSÁVEIS TÉCNICOS

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ART: 28027230211051413

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PREFEITURA MUNICÍPAL DE ARUJÁ

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Assunto

CONSTRUÇÃO DO HOSPITAL GERAL DE ARUJÁ

Projeto: CONSTRUÇÃO

Disciplina: ESTRUTURA

Etapa: PROJETO EXECUTIVO

Endereço: AVENIDA MAJOR BENJAMIN FRANCO, CENTRO - ARUJÁ - SP

Nome do Arquivo: IN_061_01_PE_EST_V00-ESTRUTURA GERAL HOSPITAL ARUJÁ V04_JUNHO 2022.dwg

Requisitante: SECRETARIA MUNICIPAL DE OBRAS

APROVADO

ENG. BRUNO MAGALHÃES SILVA, Secretário Municipal de Obras
ENG. DÉBORA FARRO VALENÇO LOUREIRO, Diretora Técnica do Departamento de Obras
ARQ. GABRIELA ITO CARDOSO DE MORAES, Arquiteta de Projetos

Título: PISO 01_cota 5.00
DESENHO DE VIGAS

Folha: 46 | 85

Código do DRPU: PB SMO 001 - 01/01

Data: MAIO/2022

Escala: 1/50

FORMATO DA FOLHA: A0

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