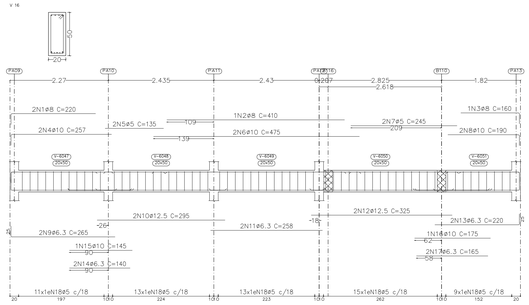
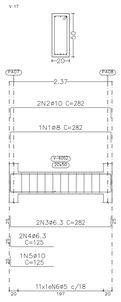
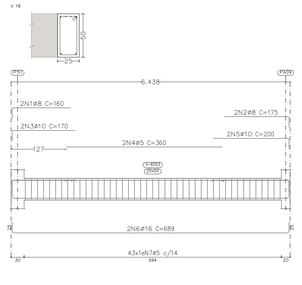
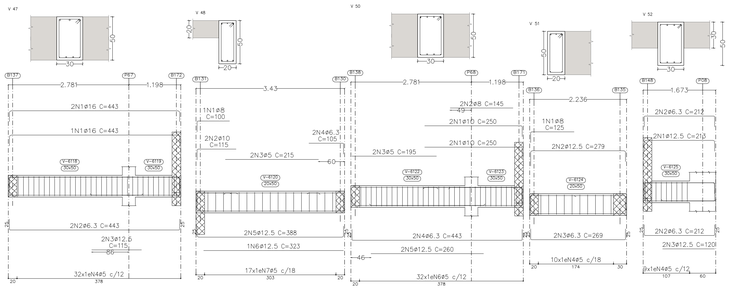


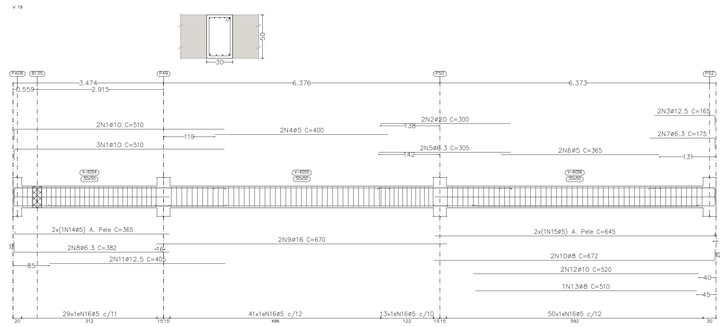


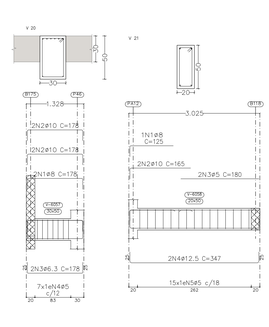


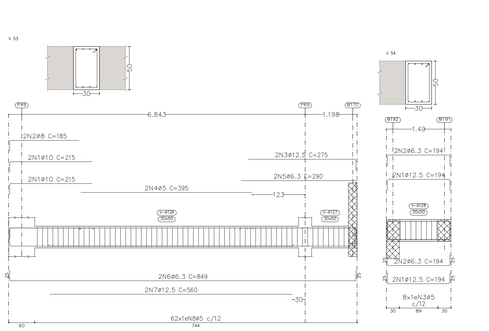


Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 57	1	ø12.5	2	140	165	330	3.2	
	2	ø8	3	270	295	885	3.5	
	3	ø12.5	2	250	275	550	5.3	
	4	ø6.3	2	150	175	350	0.9	
	5	ø5	2	385	770			1.2
	6	ø8	2	764	814	1628	6.4	
	7	ø10	2	580	580	1160	7.1	
	8	ø8	1	585	585	585	2.3	
	9	ø5	62	148	9176			14.4
						Total+10%	31.6	17.2
V 58	1	ø5	2	148	148	296		0.5
	2	ø16	2	148	198	396	6.3	
	3	ø5	8	148	148	1184		1.9
						Total+10%	6.9	2.6
V 59	1	ø8	1	95	145	145	0.6	
	2	ø10	2	95	145	290	1.8	
	3	ø6.3	2	95	145	290	0.7	
	4	ø6.3	2	95	120	240	0.6	
	5	ø10	1	95	120	120	0.7	
	6	ø5	6	148	128	768		1.2
						Total+10%	4.8	1.3
					ø5:		0.0	21.1
					ø6.3:		2.4	0.0
					ø8:		14.1	0.0
					ø10:		10.5	0.0
					ø12.5:		9.4	0.0
					ø16:		6.9	0.0
					Total:		43.3	21.1

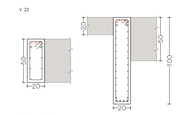
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 22	1	ø25	3	326	400	1200	46.2	
	2	ø6.3	4	565	565	2260	5.5	
	3	ø12.5	1	290	290	290	2.8	
	4	ø20	2	320	320	640	15.8	
	5	ø20	2	565	565	1130	27.9	
	6	ø6.3	2	95	95	190	0.5	
	7	ø16	2	1006	1006	2012	31.8	
	8	ø6.3	2	303	303	606	1.5	
	9	ø16	2	745	745	1490	23.5	
	10	ø10	2	565	565	1130	7.0	
	11	ø5	4	80	80	320		0.5
	12	ø5	20	969	969	19380		30.4
	13	ø5	4	290	290	1160		1.8
	14	ø8	10	133	133	1330	5.3	
	15	ø5	54	228	228	12312		19.3
	16	ø6.3	22	130	130	2860	7.0	
						Total+10%	192.3	57.2
V 47	1	ø16	3	443	443	1329	21.0	
	2	ø6.3	2	443	443	886	2.2	
	3	ø12.5	2	115	115	230	2.2	
	4	ø5	32	148	148	4736		7.4
						Total+10%	27.9	8.1
V 48	1	ø8	1	100	100	100	0.4	
	2	ø10	2	115	115	230	1.4	
	3	ø5	2	215	215	430		0.7
	4	ø6.3	2	105	105	210	0.5	
	5	ø12.5	2	388	388	776	7.5	
	6	ø12.5	1	323	323	323	3.1	
	7	ø5	17	128	128	2176		3.4
						Total+10%	14.2	4.5
V 50	1	ø10	4	250	250	1000	6.2	
	2	ø8	2	145	145	290	1.1	
	3	ø5	2	195	195	390		0.6
	4	ø6.3	2	443	443	886	2.2	
	5	ø12.5	2	260	260	520	5.0	
	6	ø5	32	148	148	4736		7.4
						Total+10%	16.0	8.8
V 51	1	ø8	1	125	125	125	0.5	
	2	ø12.5	2	279	279	558	5.4	
	3	ø6.3	2	269	269	538	1.3	
	4	ø5	10	128	128	1280		2.0
						Total+10%	7.9	2.2
V 52	1	ø12.5	2	212	212	424	4.1	
	2	ø6.3	4	212	212	848	2.1	
	3	ø12.5	2	120	120	240	2.3	
	4	ø5	9	148	148	1332		2.1
						Total+10%	9.4	2.3
V 55	1	ø20	4	255	307	1228	30.3	
	2	ø6.3	2	255	305	610	1.5	
	3	ø6.3	1	50	50	50	0.1	
	4	ø5	4	254	260	1040		1.6
	5	ø5	32	148	148	4736		7.4
						Total+10%	35.1	9.9
					ø5:		0.0	93.0
					ø6.3:		27.0	0.0
					ø8:		8.0	0.0
					ø10:		16.1	0.0
					ø12.5:		35.6	0.0
					ø16:		84.0	0.0
					ø20:		81.3	0.0
					ø25:		50.8	0.0
					Total:		302.8	93.0

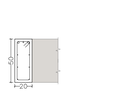


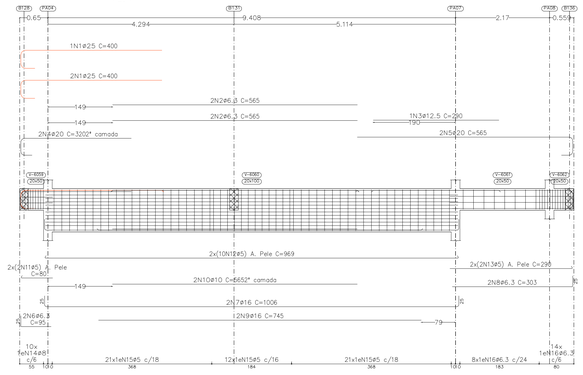


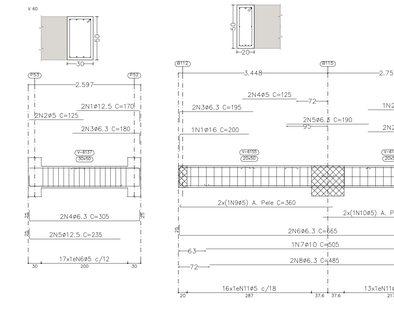


Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 53	1	ø10	4	190	215	860	5.3	
	2	ø8	2	160	185	370	1.5	
	3	ø12.5	2	248	275	550	5.3	
	4	ø5	2	395	395	790		1.2
	5	ø6.3	2	265	290	580	1.4	
	6	ø6.3	2	799	849	1698	4.2	
	7	ø12.5	2	560	560	1120	10.8	
	8	ø5	62	148	9176			14.4
						Total+10%	31.4	17.2
V 54	1	ø12.5	4	144	194	776	7.5	
	2	ø6.3	4	144	194	776	1.9	
	3	ø5	8	148	148	1184		1.9
						Total+10%	10.3	2.1
					ø5:		0.0	19.3
					ø6.3:		8.2	0.0
					ø8:		1.7	0.0
					ø10:		5.8	0.0
					ø12.5:		26.0	0.0
					Total:		41.7	19.3



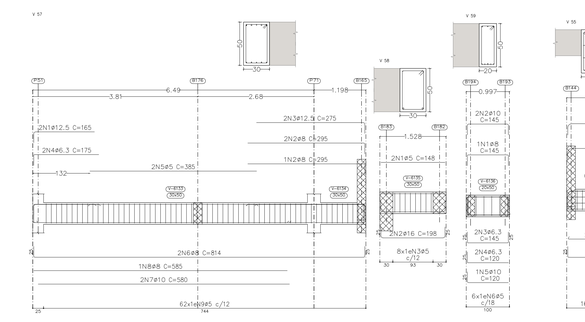


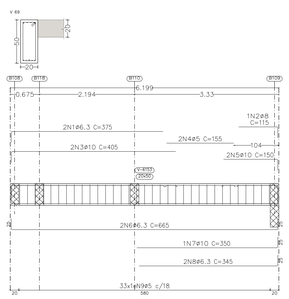


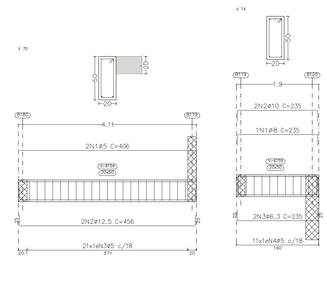


Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 60	1	ø12.5	2	145	170	340	3.3	
	2	ø5	2	125	125	250		0.4
	3	ø6.3	2	155	180	360	0.9	
	4	ø6.3	2	255	305	610	1.5	
	5	ø12.5	2	210	235	470	4.5	
	6	ø5	17	148	148	2516		4.0
						Total+10%	11.2	4.8
					ø5:		0.0	21.9
					ø6.3:		3.7	0.0
					ø8:		12.8	0.0
					ø10:		14.7	0.0
					ø12.5:		8.6	0.0
					ø16:		7.8	0.0
					Total:		47.6	21.9
V 17	1	ø8	1	232	282	282	1.1	
	2	ø10	2	232	282	564	3.5	
	3	ø6.3	2	232	282	564	1.4	
	4	ø6.3	2	100	125	250	0.6	
	5	ø10	1	100	125	125	0.8	
	6	ø5	11	128	128	1408		2.2
						Total+10%	8.1	2.4
V 18	1	ø8	2	135	160	320	1.3	
	2	ø8	2	150	175	350	1.4	
	3	ø10	2	145	170	340	2.1	
	4	ø5	2	360	360	720		1.1
	5	ø10	2	175	200	400	2.5	
	6	ø16	2	639	689	1378	21.8	
	7	ø5	4.3	128	1.38	5934		9.3
						Total+10%	32.0	11.4
					ø5:		0.0	28.7
					ø6.3:		8.0	0.0
					ø8:		8.5	0.0
					ø10:		24.4	0.0
					ø12.5:		13.2	0.0
					ø16:		24.0	0.0
					Total:		78.1	28.7

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 19	1	ø10	5	485	510	2550	15.7	
	2	ø20	2	300	300	600	14.8	
	3	ø12.5	2	140	165	330	3.2	
	4	ø5	2	400	400	800		1.3
	5	ø6.3	2	305	305	610	1.5	
	6	ø5	2	365	365	730		1.1
	7	ø6.3	2	150	175	350	0.9	
	8	ø6.3	2	357	382	764	1.9	
	9	ø16	2	670	670	1340	21.2	
	10	ø8	2	647	672	1344	5.3	
	11	ø12.5	2	405	405	810	7.8	
	12	ø10	2	520	520	1040	6.4	
	13	ø8	1	510	510	510	2.0	
	14	ø5	2	359	365	730		1.1
	15	ø5	2	645	645	1290		2.0
	16	ø5	133	148	148	19684		30.9
						Total+10%	88.8	40.0
V 20	1	ø8	2	128	178	356	1.4	
	2	ø10	4	128	178	712	4.4	
	3	ø6.3	2	128	178	356	0.9	
	4	ø5	7	148	148	1036		1.6
						Total+10%	7.4	1.8
V 21	1	ø8	1	100	125	125	0.5	
	2	ø10	2	140	165	330	2.0	
	3	ø5	2	180	180	360		0.6
	4	ø12.5	2	297	347	694	6.7	
	5	ø5	15	128	1920			3.0
						Total+10%	10.1	4.0
					ø5:		0.0	45.8
					ø6.3:		5.7	0.0
					ø8:		10.2	0.0
					ø10:		31.4	0.0
					ø12.5:		19.4	0.0
					ø16:		23.3	0.0
					ø20:		16.3	0.0
					Total:		106.3	45.8







Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 71	1	ø16	1	160	200	200	3.2	
	2	ø10	3	180	205	615	3.8	
	3	ø6.3	2	170	195	390	1.0	
	4	ø5	2	125	125	250		0.4
	5	ø6.3	2	190	190	380	0.9	
	6	ø6.3	2	615	665	1330	3.3	
	7	ø10	1	505	505	505	3.1	
	8	ø6.3	2	485	485	970	2.4	
	9	ø5	2	359	360	720		1.1
	10	ø5	2	284	290	580		0.9
	11	ø5	29	148	128	3712		5.8
						Total+10%	19.5	9.0
V 72	1	ø8	1	130	155	155	0.6	0.0
	2	ø8	1	180	205	205	0.8	
	3	ø10	2	431	481	962	5.9	
	4	ø12.5	2	431	481	962	9.3	
	5	ø5	20	148	128	2560		4.0
						Total+10%	18.3	4.4
					ø5:		0.0	13.4
					ø6.3:		8.4	0.0
					ø8:		1.5	0.0
					ø10:		14.1	0.0
					ø12.5:		10.3	0.0
					ø16:		3.5	0.0
					Total:		37.8	13.4

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 69	1	ø6.3	2	350	375	750	1.8	
	2	ø8	1	90	115	115	0.5	
	3	ø10	2	378	405	810	5.0	
	4	ø5	1	155	155	310		0.5
	5	ø10	2	125	150	300	1.8	
	6	ø6.3	2	615	665	1330	3.3	
	7	ø10	1	325	350	350	2.2	
	8	ø6.3	2	320	345	690	1.7	
	9	ø5	33	128	4224			6.6
						Total+10%	17.9	7.8
V 70	1	ø5	2	406	406	812		1.3
	2	ø12.5	2	456	912	8.8		
	3	ø5	21	128	2688			4.2
						Total+10%	9.7	6.1
V 74	1	ø8	1	185	235	235	0.9	
	2	ø10	2	185	235	470	2.9	
	3	ø6.3	2	185	235	470	1.2	
	4	ø5	11	128	1408			2.2
						Total+10%	5.5	2.4
					ø5:		0.0	16.3
					ø6.3:		8.8	0.0
					ø8:		1.5	0.0
					ø10:		13.1	0.0
					ø12.5:		9.7	0.0
					Total:		33.1	16.3

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 56	1	ø16	2	220	225	450	7.1	
	2	ø8	3	220	245	735	2.9	
	3	ø10	4	255	290	1160	7.1	
	4	ø6.3	2	210	210	420	1.0	
	5	ø5	2	355	355	710		1.1
	6	ø8	2	843	849	1698	6.7	
	7	ø10	2	510	510	1020	6.3	
	8	ø8	1	495	495	495	2.0	
	9	ø5	62	148	9176			14.4
						Total+10%	36.4	17.1
V 60	1	ø12.5	2	145	170	340	3.3	
	2	ø5	2	125	125	250		0.4
	3	ø6.3	2	155	180	360	0.9	
	4	ø6.3	2	255	305	610	1.5	
	5	ø12.5	2	210	235	470	4.5	
	6	ø5	17	148	148	2516		4.0
						Total+10%	11.2	4.8
					ø5:		0.0	21.9
					ø6.3:		3.7	0.0
					ø8:		12.8	0.0
					ø10:		14.7	0.0
					ø12.5:		8.6	0.0
					ø16:		7.8	0.0
					Total:		47.6	21.9

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 19	1	ø10	5	485	510	2550	15.7	
	2	ø20	2	300	300	600	14.8	
	3	ø12.5	2	140	165	330	3.2	
	4	ø5	2	400	400	800		1.3
	5	ø6.3	2	305	305	610	1.5	
	6	ø5	2	365	365	730		1.1
	7	ø6.3	2	150	175	350	0.9	
	8	ø6.3	2	357	382	764	1.9	
	9	ø16	2	670	670	1340	21.2	
	10	ø8	2	647	672	1344	5.3	
	11	ø12.5	2	405	405	810	7.8	
	12	ø10	2	520	520	1040	6.4	
	13	ø8	1	510	510	510	2.0	
	14	ø5	2	359	365	730		1.1
	15	ø5	2	645	645	1290		2.0
	16	ø5	133	148	148	19684		30.9
						Total+10%	88.8	40.0
V 20	1	ø8	2	128	178	356	1.4	
	2	ø10	4	128	178	712	4.4	
	3	ø6.3	2	128	178	356	0.9	
	4	ø5	7	148	148	1036		1.6
						Total+10%	7.4	1.8
V 21	1	ø8	1	100	125	125	0.5	
	2	ø10	2	140	165	330	2.0	
	3	ø5	2	180	180	360		0.6
	4	ø12.5	2	297	347	694	6.7	
	5	ø5	15	128	1920			3.0
						Total+10%	10.1	4.0
					ø5:		0.0	45.8
					ø6.3:		5.7	0.0
					ø8:		10.2	0.0
					ø10:		31.4	0.0
					ø12.5:		19.4	0.0
					ø16:		23.3	0.0
					ø20:		16.3	0.0
					Total:		106.3	45.8

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

Arq.to Marlon Vinícius Lima, CAU: A96639-8, RRT: SI11006750O0CT001

COORDENAÇÃO

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COMPATIBILIZAÇÃO

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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 THIAGO 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 4_cota 19.00

DESENHO DE VIGAS

Folha: 67 | 85

Código do DWFU: PB SMO 001 - 01/01

Data: MAIO/2022

Escala: 1/50

PISO 04_cota 19.00
Desenho de vigas
Concreto: C35, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:25
Escala aberturas 1:25

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