Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 28	1	ø16	2	320	360	720	11.4	
	2	ø8	3	220	400	1200	4.7	
	3	#6.3	3	380	385	1155	2.8	
	4	ø8	12	410	410	4920	19.4	
	5	ø16	2	340	340	680	10.7	
	6	ø16	4	345	345	1380	21.8	
	7	#12.5	6	480	480	2880	27.7	
	8	ø16	2	350	350	700	11.1	
	9	ø8	3	420	420	1260	5.0	
	10	ø16	3	470	470	1410	22.3	
	11	ø16	2	300	300	600	9.5	
	12	ø8	3	130	160	480	1.9	
	13	ø16	2	324	135	270	4.3	
	14	ø5	2	270	270	540		0.8
	15	ø5	4	230	230	920		1.4
	16	ø5	2	240	240	480		0.8
	17	ø5	2	265	265	530		0.8
	18	ø5	2	280	280	560		0.9
	19	ø5	2	145	145	290		0.5
	20	#6.3	2	163	188	376	0.9	
	21	#10	12	663	663	7956	49.0	
	22	ø8	2	263	663	1326	5.2	
	23	#20	2	488	515	1030	25.4	
	24	#10	5	515	515	2575	15.9	
	25	#10	5	535	535	2675	16.5	
	26	#12.5	2	555	555	1110	10.7	
	27	#16	1	500	500	500	7.9	
	28	#10	10	530	530	5300	32.7	
	29	#10	5	480	480	2400	15.1	
	30	#10	5	520	520	2600	16.0	
	31	#5	196	660	660	129360		203.1
	32	#5	28	475	475	13300		20.9
	33	#5	12	148	148	1776		2.8
	34	ø5	393	228	228	89604		140.7
					Total=10%		282.7	410.0
V 37	1	ø8	1	115	140	140	0.6	
	2	#12.5	2	192	219	876	8.4	
	3	#6.3	2	169	219	438	1.1	
	4	ø5	12	148	148	1776		2.8
					Total=10%		11.1	3.1
V 38	1	ø8	1	75	100	100	0.4	
	2	ø8	1	200	275	275	1.1	
	3	#12.5	2	183	310	620	6.0	
	4	#10	2	355	380	760	4.7	
	5	#6.3	2	615	665	1330	3.3	
	6	#6.3	3	80	105	315	0.8	
	7	#10	1	195	195	195	1.2	
	8	#6.3	2	180	180	360	0.9	
	9	ø5	2	344	350	700		1.1
	10	ø5	2	298	305	610		1.0
	11	ø5	45	128	128	5760		9.0
					Total=10%		20.2	12.2
V 39	1	ø8	1	282	342	342	1.4	
	2	#10	2	282	342	684	4.2	
	3	#6.3	2	282	342	684	1.7	
	4	ø5	15	128	128	1920		3.0
					Total=10%		8.0	3.3
V 40	1	#12.5	2	192	244	488	4.7	
	2	#6.3	2	154	242	968	2.4	
	3	ø5	12	148	148	1776		2.8
					Total=10%		7.8	3.1
V 41	1	#16	5	428	478	1434	22.6	
	2	#6.3	2	428	478	956	2.3	
	3	#6.3	1	70	70	70	0.2	
	4	#5	2	428	441	882		1.4
	5	ø5	37	148	148	5476		8.6
					Total=10%		27.6	11.0
V 42	1	ø8	1	75	100	100	0.4	
	2	#10	2	96	115	230	1.4	
	3	ø5	2	215	215	430		0.7
	4	#6.3	2	80	105	210	0.5	
	5	#12.5	2	128	388	776	7.5	
	6	ø5	17	128	128	2176		3.4
					Total=10%		10.8	4.5
V 44	1	#10	4	428	478	1912	11.8	
	2	#12.5	1	165	165	165	1.6	
	3	#6.3	2	428	478	956	2.3	
	4	#12.5	2	140	140	280	2.7	
	5	ø5	37	148	148	5476		8.6
					Total=10%		20.2	9.5
V 45	1	#16	1	278	284	284	4.5	
	2	#10	2	278	269	538	3.3	
	3	#6.3	2	278	269	538	1.3	
	4	#10	1	80	85	85	0.5	
	5	#10	2	55	55	110	0.3	
	6	ø5	2	219	225	450		0.7
	7	ø5	10	128	128	1280		2.0
					Total=10%		10.9	3.0
V 47	1	#12.5	2	180	205	410	3.9	#17.6
	2	ø8	2	280	310	620	2.4	
	3	#6.3	2	192	215	430	1.1	
	4	ø5	2	360	395	790		1.2
	5	#12.5	2	302	325	650	6.3	
	6	#6.3	2	835	860	1720	4.3	
	7	#12.5	2	540	560	1120	10.8	
	8	ø5	65	148	148	9620		15.1
					Total=10%		31.7	17.9

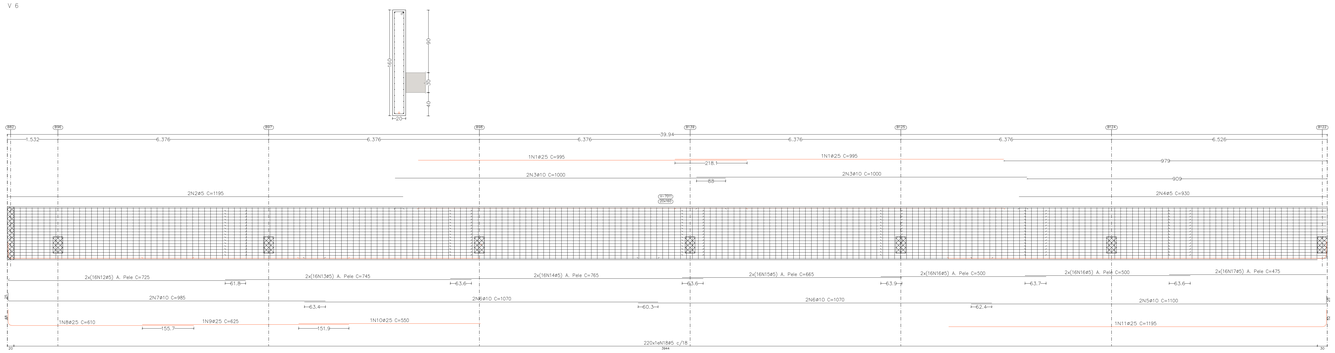
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 6	1	ø25	2	995	995	1990	76.7	
	2	ø5	2	1185	1185	2390		3.8
	3	ø10	4	1000	1000	4000	24.6	
	4	ø5	2	930	930	1860		2.9
	5	ø10	2	1100	1100	2200	13.6	
	6	ø10	4	1070	1070	4280	26.4	
	7	ø10	2	985	985	1970	12.1	
	8	ø25	1	610	610	610	23.5	
	9	ø25	1	925	925	925	24.1	
	10	ø25	1	550	550	550	21.2	
	11	ø25	1	1195	1195	1195	46.1	
	12	ø5	32	725	725	23200		36.4
	13	ø5	32	745	745	23840		37.4
	14	ø5	32	765	765	24480		38.4
	15	ø5	32	665	665	21280		33.4
	16	ø5	64	500	500	32000		50.2
	17	ø5	32	475	475	15200		23.9
	18	ø5	220	348	348	76560		120.2
					Total=10%		295.1	381.3
V 7	1	ø16	2	280	305	610	9.6	
	2	ø8	3	320	320	960	3.8	
	3	ø8	3	360	360	1080	4.3	
	4	ø16	2	290	290	580	9.2	
	5	ø10	4	1055	1055	4220	26.0	
	6	ø20	2	1000	1000	2000	24.7	
	7	ø8	3	1045	1045	3135	12.4	
	8	ø16	2	980	980	1960	30.9	
	9	ø8	3	195	195	585	2.3	
	10	ø16	2	175	175	350	5.5	
	11	ø5	4	345	345	1380		2.2
	12	ø5	2	195	195	390		0.6
	13	ø5	2	360	360	720		1.1
	14	#6.3	2	188	188	376	0.9	
	15	ø20	2	705	705	1410	34.8	
	16	ø20	2	680	680	1360	33.5	
	17	#6.3	6	663	663	3978	9.7	
	18	ø20	2	700	700	1400	34.5	
	19	#12.5	4	245	245	980	9.4	
	20	#12.5	4	500	500	2000	19.3	
	21	#12.5	4	105	105	420	4.0	
	22	ø5	148	660	660	108840		174.1
	23	ø5	12	148	148	1776		2.8
	24	ø5	306	228	228	69768		109.5
					Total=10%		302.3	319.3
V 8	1	ø8	1	235	235	235	0.9	
	2	ø8	1	315	330	330	0.5	
	3	#25	2	490	490	980	37.8	
	4	ø5	2	230	230	460		0.7
	5	ø10	3	295	295	885	5.5	
	6	ø5	2	140	140	280		0.4
	7	#12.5	2	262	262	524	5.0	
	8	ø8	2	275	275	550	2.2	
	9	#6.3	2	1005	1005	2010	5.0	
	10	ø8	2	105	105	210	0.8	
	11	ø8	1	55	55	55	0.2	
	12	ø10	1	335	335	335	2.1	
	13	#6.3	2	320	320	640	1.6	
	14	#6.3	2	280	280	560	1.4	
	15	ø5	2	255	255	510		0.8
	16	#6.3	38	130	130	4940	12.1	
	17	ø5	52	128	128	6656		10.4
					Total=10%		82.6	13.5
V 9	1	ø16	1	475	475	475	7.5	
	2	ø20	2	360	360	720	17.8	
	3	#6.3	2	330	330	660	1.6	
	4	#12.5	2	740	740	1480	14.3	
	5	ø5	2	540	540	1080		1.7
	6	#6.3	2	385	320	640	1.6	
	7	#12.5	2	480	505	1010	9.7	
	8	ø8	2	200	200	400	1.6	
	9	#6.3	2	232	232	464	1.1	
	10	ø20	2	784	859	1718	42.4	
	11	ø8	2	265	275	550	2.2	
	12	#12.5	1	205	205	205	2.0	
	13	ø10	2	140	140	280	1.7	
	14	ø5	2	465	465	930		1.5
	15	ø5	2	200	200	400		0.6
	16	ø5	20	535	535	10700		16.8
	17	ø5	20	290	290	5800		9.1
	18	ø5	4	244	255	1020		1.6
	19	ø5	80	128	128	10240		16.1
	20	ø5	42	228	228	9576		15.0
					Total=10%		153.9	68.6
V 10	1	ø8	1	170	195	195	0.8	
	2	ø5	2	115	115	230		0.4
	3	ø10	2	205	230	460	2.8	
	4	#6.3	2	346	346	692	1.7	
	5	#6.3	2	295	295	590	1.4	
	6	ø10	1	295	295	295	1.8	
	7	ø5	15	128	128	1920		3.0
					Total=10%		9.4	3.7
V 11	1	ø8	1	195	170	170	0.7	
	2	ø10	2	192	216	432	2.7	
	3	#6.3	2	191	241	482	1.2	
	4	#6.3	2	130	125	250	0.6	
	5	ø10	1	135	130	130	0.8	
	6	ø5	9	128	128	1152		1.8
					Total=10%		6.6	2.0

#5:	0.0	198.4
#6.3:	43.9	0.0
#8:	56.1	0.0
#10:	132.0	0.0
#12.5:	99.3	0.0
#16:	538.8	0.0
#20:	206.5	0.0
#25:	232.8	0.0
Total:	809.9	198.4

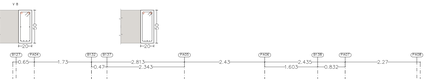
Cobertura_cota 23.50
Desenho de vigas
Concreto: C35, em geral
Aço das barras: CA-50 e CA-60
Aço das estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:25
Escala aberturas 1:25

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V 6

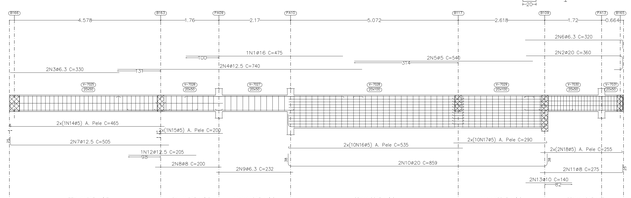


V 8

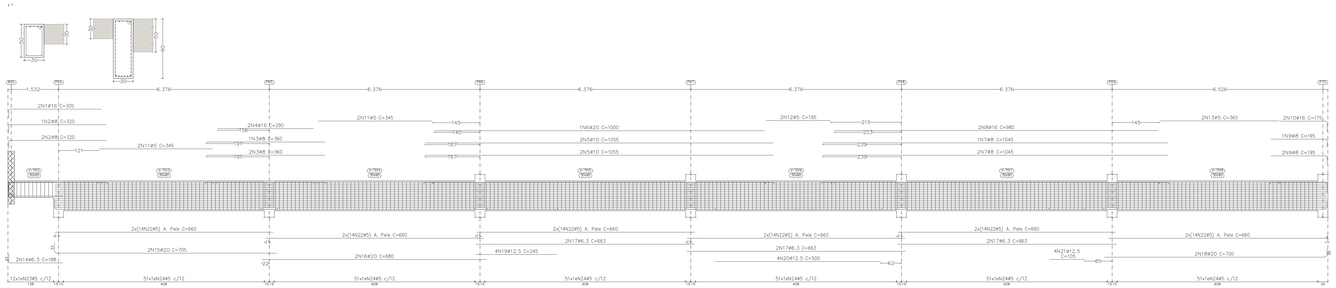


V 9





V 7



V 10





V 11





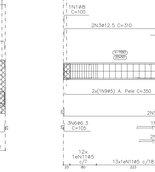
V 37





V 38





V 39



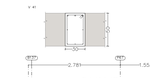


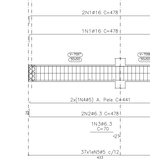
V 40





V 41



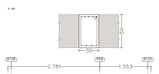


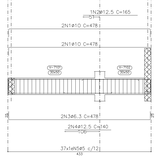
V 42





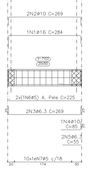
V 44





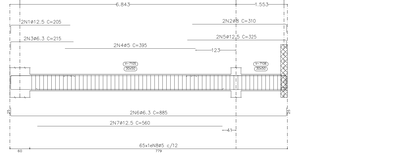
V 45





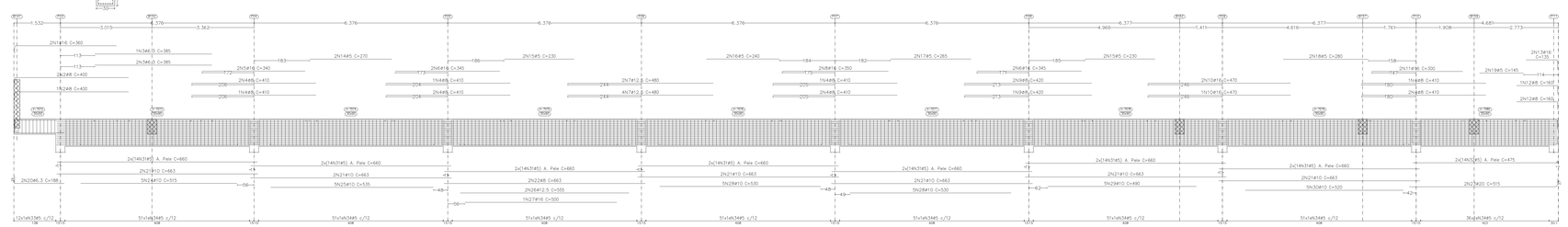
V 47





V 28





03	05/2022	D.N.	S.F.	S.F.	REVISÃO GERAL
02	02/2022	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
VERSÃO	DATA	DES.	VER.	APR.	DESCRIÇÃO

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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

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Secretária Municipal de Obras

ENG. DÉBORA FARIO VALENCIO LOUREIRO
Diretora Técnica do Departamento de Obras

ARQ. GABRIELA ITO CARDOSO DE MORAES
Arquiteta de Projetos

Título: COBERTURA_cota 23.50
DESENHO DE VIGAS

Folha: 73 | 85

Código do SINFU: PB SMO 001 - 01/01
Data: MAIO/2022
Escala: 1/50