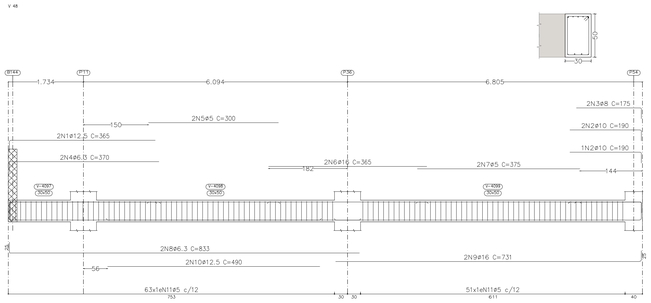
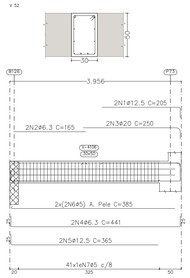
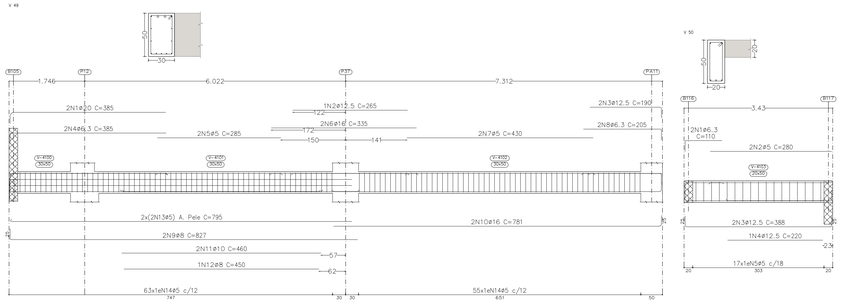
V 48



V 52

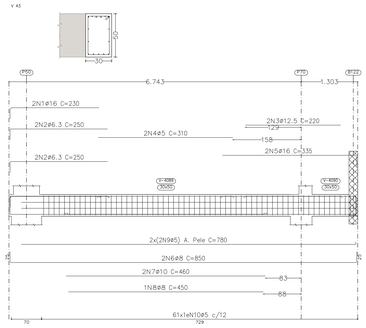


V 49

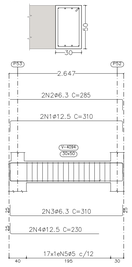


V 50

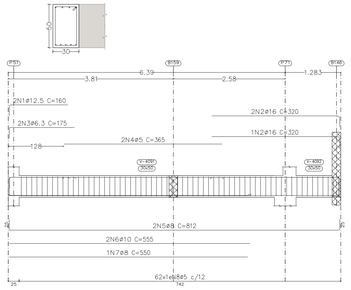
V 43



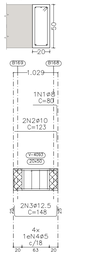
V 46



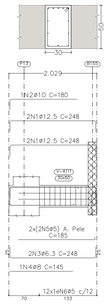
V 44



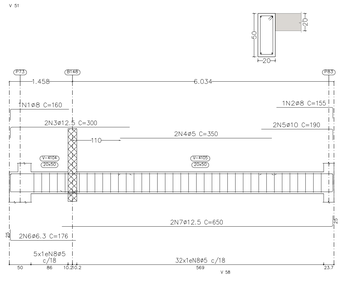
V 45



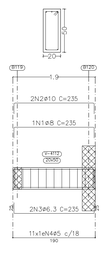
V 57



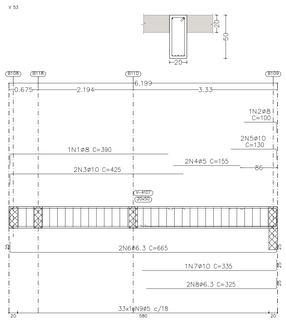
V 51



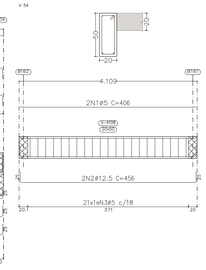
V 60



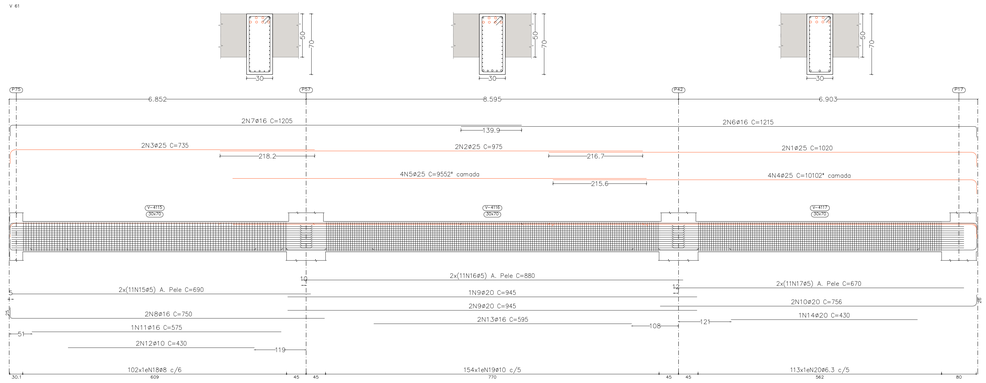
V 53



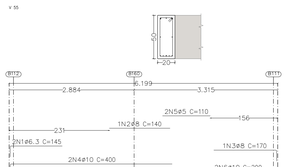
V 54



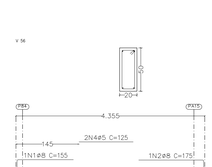
V 61



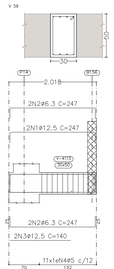
V 55



V 56



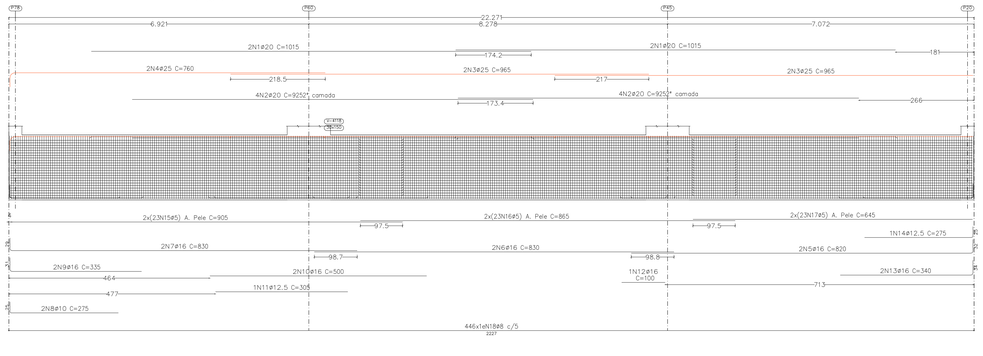
V 59



V 60



V 62
Ver reparos no detalhamento de pilares ou vista de muros



Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 48	1	ø12.5	2	337	365	730	7.0	
	2	ø10	3	165	190	570	3.5	
	3	ø8	2	150	175	350	1.4	
	4	ø6.3	2	345	370	740	1.8	
	5	ø5	2	300	300	600		0.9
	6	ø16	2	365	365	730	11.5	
	7	ø5	2	375	375	750		1.2
	8	ø6.3	2	808	833	1666	4.1	
	9	ø16	2	706	731	1462	23.1	
	10	ø12.5	2	490	490	980	9.4	
	11	ø5	114	148	148	16872		26.5
					Total+10%		68.0	31.5
V 49	1	ø20	2	359	385	770	19.0	
	2	ø12.5	2	265	265	265	2.6	
	3	ø12.5	2	165	190	380	3.7	
	4	ø6.3	2	360	385	770	1.9	
	5	ø5	2	285	285	570		0.9
	6	ø16	2	335	335	670	10.6	
	7	ø5	2	430	430	860		1.4
	8	ø6.3	2	180	205	410	1.0	
	9	ø8	2	802	827	1654	6.5	
	10	ø16	2	756	781	1562	24.7	
	11	ø10	2	460	460	920	5.7	
	12	ø8	1	450	450	450	1.8	
	13	ø5	4	789	795	3180		5.0
	14	ø5	118	148	148	17464		27.4
					Total+10%		85.3	38.2
V 50	1	ø6.3	2	85	110	220	0.5	
	2	ø5	2	280	280	560		0.9
	3	ø12.5	2	338	388	776	7.5	
	4	ø12.5	1	220	220	220	2.1	
	5	ø5	17	148	128	2176		3.4
					Total+10%		11.1	4.7
V 52	1	ø12.5	2	180	205	410	3.9	
	2	ø6.3	2	165	165	330	0.8	
	3	ø20	2	224	250	500	12.3	
	4	ø6.3	2	331	441	882	2.2	
	5	ø12.5	2	340	365	730	7.0	
	6	ø5	4	379	385	1540		2.4
	7	ø5	41	59 / 15	148	6068		9.5
					Total+10%		28.8	13.1
					ø5:		0.0	87.5
					ø6.3:		13.6	0.0
					ø8:		10.6	0.0
					ø10:		10.2	0.0
					ø12.5:		47.4	0.0
					ø16:		77.0	0.0
					ø20:		34.4	0.0
					Total:		193.2	87.5

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 53	1	ø8	1	365	390	390	1.5	
	2	ø8	1	72 15	100	100	0.4	
	3	ø10	2	400	425	850	5.2	
	4	ø5	2	155	155	310		0.5
	5	ø10	2	105 15	130	260	1.6	
	6	ø6.3	2	615 15	665	1330	3.3	
	7	ø10	1	310 15	335	335	2.1	
	8	ø6.3	2	300 15	325	650	1.6	
	9	ø5	33	59 / 15	128	4224		6.6
					Total+10%		17.3	7.8
V 54	1	ø5	2	406	406	812		1.3
	2	ø12.5	2	406 15	456	912	8.8	
	3	ø5	21	59 / 15	128	2688		4.2
					Total+10%		9.7	6.1
					ø5:		0.0	13.9
					ø6.3:		5.4	0.0
					ø8:		2.1	0.0
					ø10:		9.8	0.0
					ø12.5:		9.7	0.0
					Total:		27.0	13.9

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 59	1	ø12.5	2	197 15	247	494	4.8	
	2	ø6.3	2	197 15	247	988	2.4	
	3	ø12.5	2	140	140	280	2.7	
	4	ø5	11	59 / 15	148	1628		2.6
					Total+10%		10.9	2.9
V 60	1	ø20	2	159 18	238	476	11.7	
	2	ø6.3	2	159 15	209	836	2.0	
	3	ø5	34	159	165	5610		8.8
	4	ø5	10	59 / 15	364	3640		5.7
					Total+10%		15.1	16.0
					ø5:		0.0	18.9
					ø6.3:		4.8	0.0
					ø12.5:		8.3	0.0
					ø20:		12.9	0.0
					Total:		26.0	18.9

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 61	1	ø25	2	988 12	1020	2040	78.6	
	2	ø25	2	975	975	1950	75.1	
	3	ø25	2	733 20	735	1470	56.6	
	4	ø25	4	978 12	1010	4040	155.7	
	5	ø25	4	955	955	3820	147.2	
	6	ø16	2	1180 15	1215	2430	38.4	
	7	ø16	2	1180	1205	2410	38.0	
	8	ø16	2	725	750	1500	23.7	
	9	ø20	3	945	945	2835	69.9	
	10	ø20	2	730 16	756	1512	37.3	
	11	ø16	1	575	575	575	9.1	
	12	ø10	2	430	430	860	5.3	
	13	ø16	2	595	595	1190	18.8	
	14	ø20	1	430	430	430	10.6	
	15	ø5	22	690	690	15180		23.8
	16	ø5	22	880	880	19360		30.4
	17	ø5	22	670	670	14740		23.1
	18	ø8	102	93 / 24	193	19686	77.7	
	19	ø10	154	194 / 24	196	30184	186.0	
	20	ø6.3	113	189 / 24	190	21470	52.6	
					Total+10%		388.7	85.0
					ø5:		0.0	85.0
					ø6.3:		57.9	0.0
					ø8:		85.5	0.0
					ø10:		210.4	0.0
					ø16:		140.8	0.0
					ø20:		129.6	0.0
					ø25:		564.5	0.0
					Total:		1188.7	85.0

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 55	1	ø6.3	2	120	145	290	0.7	
	2	ø8	1	140	140	140	0.6	
	3	ø8	1	145 15	170	170	0.7	
	4	ø10	2	374	400	800	4.9	
	5	ø5	2	110	110	220		0.3
	6	ø10	2	175 15	200	400	2.5	
	7	ø6.3	2	615 15	665	1330	3.3	
	8	ø10	1	545	545	545	3.4	
	9	ø6.3	2	530	530	1060	2.6	
	10	ø5	2	615	628	1256		2.0
	11	ø5	41	59 / 15	128	5248		8.2
					Total+10%		20.6	11.6
V 56	1	ø8	1	130	155	155	0.6	
	2	ø8	1	150 15	175	175	0.7	
	3	ø10	2	165	190	380	2.3	
	4	ø5	2	125	125	250		0.4
	5	ø10	2	185 15	210	420	2.6	
	6	ø12.5	2	431 15	481	962	9.3	
	7	ø5	20	59 / 15	128	2560		4.0
					Total+10%		17.1	4.8
					ø5:		0.0	16.4
					ø6.3:		7.3	0.0
					ø8:		2.8	0.0
					ø10:		17.3	0.0
					ø12.5:		10.3	0.0
					Total:		37.7	16.4

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 62	1	ø20	4	1015	1015	4060	100.1	
	2	ø20	8	925	925	7400	182.5	
	3	ø25	4	965	965	3860	148.7	
	4	ø25	2	728 20	760	1520	58.6	
	5	ø16	2	788 12	820	1640	25.9	
	6	ø16	2	830	830	1660	26.2	
	7	ø16	2	801	830	1660	26.2	
	8	ø10	2	250	275	550	3.4	
	9	ø16	2	304	335	670	10.6	
	10	ø16	2	500	500	1000	15.8	
	11	ø12.5	1	305	305	305	2.9	
	12	ø16	1	100	100	100	1.6	
	13	ø16	2	306 12	340	680	10.7	
	14	ø12.5	1	250 12	275	275	2.6	
	15	ø5	46	905	905	41630		65.4
	16	ø5	46	865	865	39790		62.5
	17	ø5	46	645	645	29670		46.6
	18	ø8	446	93 / 24	353	157438	621.7	
					Total+10%		361.3	192.0
					ø5:		0.0	192.0
					ø8:		683.9	0.0
					ø10:		3.7	0.0
					ø12.5:		6.1	0.0
					ø16:		128.7	0.0
					ø20:		310.9	0.0
					ø25:		228.0	0.0
					Total:		1361.3	192.0

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 43	1	ø12.5	2	205	230	460	7.3	
	2	ø6.3	4	225	250	1000	2.4	
	3	ø12.5	2	220	220	440	4.2	
	4	ø5	2	310	310	620		1.0
	5	ø16	2	309 15	335	670	10.6	
	6	ø8	2	800 15	850	1700	6.7	
	7	ø10	2	460	460	920	5.7	
	8	ø8	1	450	450	450	1.8	
	9	ø5	4	774	780	3120		4.9
	10	ø5	61	59 / 15	148	9028		14.2
					Total+10%		42.6	22.1
V 46	1	ø12.5	2	260 15	310	620	6.0	
	2	ø6.3	2	260	285	570	1.4	
	3	ø6.3	2	260 15	310	620	1.5	
	4	ø12.5	2	205	230	460	4.4	
	5	ø5	17	59 / 15	148	2516		4.0
					Total+10%		14.6	4.4
					ø5:		0.0	26.5
					ø6.3:		5.8	0.0
					ø8:		9.3	0.0
					ø10:		6.3	0.0
					ø12.5:		16.1	0.0
					ø16:		19.7	0.0
					Total:		57.2	26.5

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 44	1	ø12.5	2	135	160	320	5.1	
	2	ø16	3	295 15	320	960	15.2	
	3	ø6.3	2	150	175	350	0.9	
	4	ø5	2	365	365	730		1.1
	5	ø8	2	782 12	812	1624	6.4	
	6	ø10	2	555	555	1110	6.8	
	7	ø8	1	550	550	550	2.2	
	8	ø5	62	59 / 15	148	9176		14.4
					Total+10%		38.1	17.1
V 45	1	ø8	1	55 15	80	80	0.3	
	2	ø10	2	98 15	123	246	1.5	
	3	ø12.5	2	98 15	148	296	2.9	
	4	ø5	4	59 / 15	128	512		0.8
					Total+10%		5.2	0.9
					ø5:		0.0	18.0
					ø6.3:		1.0	0.0
					ø8:		9.8	0.0
					ø10:		9.2	0.0
					ø12.5:		6.6	0.0
					ø16:		16.7	0.0
					Total:		43.3	18.0

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 51	1	ø8	1	135	160	160	0.6	
	2	ø8	1	130 15	155	155	0.6	
	3	ø12.5	2	275	300	600	5.8	
	4	ø5	2	350	350	700		1.1
	5	ø10	2	165 15	190	380	2.3	
	6	ø6.3	2	151	176	352	0.9	
	7	ø12.5	2	625 15	650	1300	12.5	
	8	ø5	37	59 / 15	128	4736		7.4
					Total+10%		25.0	9.4
V 57	1	ø12.5	4	198 15	248	992	9.6	
	2	ø10	2	155	180	180	1.1	
	3	ø6.3	2	198 15	248	496	1.2	
	4	ø8	1	145	145	145	0.6	
	5	ø5	4	179	185	740		1.2
	6	ø5	12	59 / 15	148	1776		2.8
					Total+10%		13.8	4.4
V 58	1	ø8	1	185 15	235	235	0.9	
	2	ø10	2	185 15	235	470	2.9	
	3	ø6.3	2	185	235	470	1.2	
	4	ø5	11	59 / 15	128	1408		2.2
					Total+10%		5.5	2.4
					ø5:		0.0	16.2
					ø6.3:		3.6	0.0
					ø8:		3.0	0.0
					ø10:		6.9	0.0
					ø12.5:		30.8	0.0
					Total:		44.3	16.2

PISO 02_cota 10.00
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

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:

COORDENADOR ARQUITETURA: Arq.to Marlon Vinícius Lima, CAU: A96639-8, RRT: SI11003675I00CT001

COORDENADOR ENGENHARIA: Eng. Samuel Isaque P. Ferreira, CREA: 5070546180, ART: 28027230211051413

RESPONSÁVEL PELO PROJETO: Eng. Samuel Isaque P. Ferreira, CREA: 5070546180, ART: 28027230211051413

CONTRATADA:
INPLENITUS
Projetos, Gerenciamento e Fiscalização de Obras Ltda.

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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

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Título: PISO 2_cota 10.00
DESENHO DE VIGAS
Folha: 57 | 85
Código do SIPEU: PB SMO 001 - 01/01
Data: MAIO/2022
Escala: 1/50

FORMATO DA FOLHA: **A0**

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