Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 28	1	ø12.5	2	150	175	350	3.4	
	2	ø10	4	356	355	1420	8.8	
	3	ø8	1	205	205	205	0.8	
	4	ø12.5	2	235	235	470	4.5	
	5	ø12.5	2	135 / 25	160	320	3.1	
	6	ø6.3	2	175	200	400	1.0	
	7	ø5	2	300	300	600		0.9
	8	ø5	2	135	135	270		0.4
	9	ø6.3	2	280	280	560	1.4	
	10	ø5	2	120	120	240		0.4
	11	ø6.3	2	150 / 15	180	360	0.9	
	12	ø10	2	638	663	1326	8.2	
	13	ø6.3	2	769 / 15	794	1588	3.9	
	14	ø10	2	450	450	900	5.5	
	15	ø12.5	2	285	285	570	5.5	
	16	ø12.5	2	305	305	610	5.9	
	17	ø5	105	40 / 30 / 25	148	15540		24.4
						Total+10%	58.2	28.7
V 29	1	ø12.5	2	150	175	350	3.4	
	2	ø10	4	360	360	1440	8.9	
	3	ø12.5	1	265	265	265	2.6	
	4	ø8	4	310	310	1240	4.9	
	5	ø12.5	1	255	255	255	2.5	
	6	ø12.5	2	130 / 15	160	320	3.1	
	7	ø6.3	2	175	200	400	1.0	
	8	ø5	2	300	300	600		0.9
	9	ø5	2	270	270	540		0.8
	10	ø6.3	2	205 / 15	230	460	1.1	
	11	ø8	2	642	667	1334	5.3	
	12	ø8	2	579	579	1158	4.6	
	13	ø6.3	2	358 / 15	383	766	1.9	
	14	ø8	1	485	485	485	1.9	
	15	ø10	2	485	485	970	6.0	
	16	ø8	1	425	425	425	1.7	
	17	ø10	2	425	425	850	5.2	
	18	ø12.5	2	295	295	590	5.7	
	19	ø5	118	40 / 30 / 25	148	17464		27.4
						Total+10%	65.8	32.0
V 33	1	ø10	4	160 / 15	185	740	4.6	
	2	ø8	2	115 / 15	140	280	1.1	
	3	ø5	2	325	325	650		1.0
	4	ø16	2	459 / 15	509	1018	16.1	
	5	ø5	34	40 / 30 / 25	148	5032		7.9
						Total+10%	24.0	9.8
V 36=V 54	1	ø5	2	292	292	584		0.9
	2	ø12.5	2	292 / 15	342	684	6.6	
	3	ø5	15	40 / 30 / 25	128	1920		3.0
						Total+10%	7.3	4.3
						(x2)	14.6	8.6
						ø5:	0.0	79.1
						ø6.3:	12.3	0.0
						ø8:	22.4	0.0
						ø10:	52.0	0.0
						ø12.5:	58.2	0.0
						ø16:	17.7	0.0
						Total:	162.6	79.1

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 30	1	ø12.5	2	165	190	380	3.7	
	2	ø16	2	315	315	630	9.9	
	3	ø12.5	2	340	340	680	6.5	
	4	ø6.3	2	190	215	430	1.1	
	5	ø5	2	280	280	560		0.9
	6	ø20	2	450	450	900	22.2	
	7	ø5	2	360	360	720		1.1
	8	ø6.3	2	385	385	770	1.9	
	9	ø5	2	185	185	370		0.6
	10	ø12.5	2	910	935	1870	18.0	
	11	ø16	2	585	585	1170	18.5	
	12	ø8	2	375	375	750	3.0	
	13	ø12.5	2	435	435	870	8.4	
	14	ø8	1	205	205	205	0.8	
	15	ø16	1	435	435	435	6.9	
	16	ø8	1	255	255	255	1.0	
	17	ø10	2	205	280	560	3.5	
	18	ø5	117	40 / 30 / 25	148	17316		27.2
						Total+10%	115.9	32.8
V 31	1	ø12.5	2	145 / 15	170	340	3.3	
	2	ø5	2	135	135	270		0.4
	3	ø6.3	2	170 / 15	195	390	1.0	
	4	ø6.3	2	282 / 15	332	664	1.6	
	5	ø12.5	1	210	235	470	4.5	
	6	ø5	19	40 / 30 / 25	148	2812		4.4
						Total+10%	11.4	5.3
V 32	1	ø10	2	200	200	400	2.5	
	2	ø16	2	310	310	620	9.8	
	3	ø5	2	315	315	630		1.0
	4	ø6.3	2	165 / 15	190	380	0.9	
	5	ø10	2	748 / 15	798	1596	9.8	
	6	ø10	2	535 / 15	560	1120	6.9	
	7	ø12.5	1	440	440	440	4.2	
	8	ø5	52	40 / 30 / 25	148	7696		12.1
						Total+10%	37.5	14.4
						ø5:	0.0	52.5
						ø6.3:	7.1	0.0
						ø8:	5.3	0.0
						ø10:	24.9	0.0
						ø12.5:	53.5	0.0
						ø16:	49.6	0.0
						ø20:	24.4	0.0
						Total:	164.8	52.5

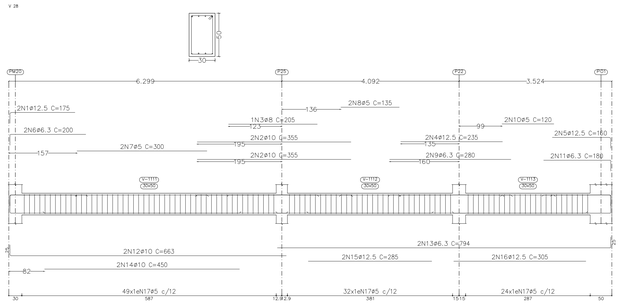
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 40	1	ø12.5	4	245	270	1080	10.4	
	2	ø8	1	185	210	210	0.8	
	3	ø10	4	520	520	2080	12.8	
	4	ø16	2	385	385	770	12.2	
	5	ø5	2	310	310	620		1.0
	6	ø5	2	365	365	730		1.1
	7	ø10	2	728	803	1606	9.9	
	8	ø10	2	670 / 15	695	1390	8.6	
	9	ø6.3	2	420	420	840	2.1	
	10	ø10	2	465	465	930	5.7	
	11	ø10	2	470 / 15	495	990	6.1	
	12	ø5	99	40 / 30 / 25	148	14652		23.0
						Total+10%	75.5	27.6
V 42	1	ø5	2	271	271	542		0.9
	2	ø12.5	2	271 / 15	321	642	6.2	
	3	ø5	12	40 / 30 / 25	128	1536		2.4
						Total+10%	6.8	3.6
V 45	1	ø25	2	485	485	970	37.4	
	2	ø10	2	230	230	460	2.8	
	3	ø12.5	2	115 / 15	140	280	2.7	
	4	ø6.3	2	200	225	450	1.1	
	5	ø5	2	410	410	820		1.3
	6	ø6.3	2	520	520	1040	2.5	
	7	ø5	2	260	260	520		0.8
	8	ø16	2	370	370	740	11.7	
	9	ø5	2	175	175	350		0.5
	10	ø6.3	2	145 / 15	170	340	0.8	
	11	ø12.5	2	884	919	1838	17.7	
	12	ø12.5	2	694	694	1388	13.4	
	13	ø6.3	2	479 / 15	504	1008	2.5	
	14	ø12.5	2	665	690	1380	13.3	
	15	ø16	1	510	510	510	8.1	
	16	ø12.5	1	415	415	415	4.0	
	17	ø10	2	380	380	760	4.7	
	18	ø12.5	2	380	380	760	7.3	
	19	ø5	148	40 / 30 / 25	148	21904		34.4
						Total+10%	143.0	40.7
						ø5:	0.0	71.9
						ø6.3:	9.9	0.0
						ø8:	0.9	0.0
						ø10:	55.7	0.0
						ø12.5:	82.4	0.0
						ø16:	35.3	0.0
						ø25:	41.1	0.0
						Total:	225.3	71.9

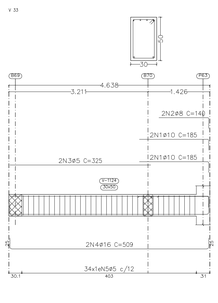
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 43	1	ø20	2	249	275	550	13.6	
	2	ø12.5	4	365	365	1460	14.1	
	3	ø12.5	2	300	300	600	5.8	
	4	ø16	1	200	200	200	3.2	
	5	ø6.3	2	245 / 15	270	540	1.3	
	6	ø5	2	360	360	720		1.1
	7	ø5	2	440	440	880		1.4
	8	ø20	2	485	485	970	23.9	
	9	ø5	2	260	260	520		0.8
	10	ø20	2	494 / 15	510	1020	25.2	
	11	ø12.5	2	748	773	1546	9.5	
	12	ø12.5	2	874	874	1748	16.8	
	13	ø16	2	694	694	1388	21.9	
	14	ø6.3	2	314 / 15	339	678	1.7	
	15	ø10	2	510	510	1020	6.3	
	16	ø6.3	2	420	420	840	2.1	
	17	ø12.5	1	600	600	600	5.8	
	18	ø10	2	500	500	1000	6.2	
	19	ø16	1	390	390	390	6.2	
	20	ø12.5	2	390	390	780	7.5	
	21	ø5	190	40 / 30 / 25	148	28120		44.1
						Total+10%	88.2	52.1
V 44	1	ø10	5	275 / 15	300	1500	9.2	
	2	ø5	2	320	320	640		1.0
	3	ø8	2	567 / 15	617	1234	4.9	
	4	ø8	1	395	420	420	1.7	
	5	ø10	2	395	420	840	5.2	
	6	ø5	38	40 / 30 / 25	148	5624		8.8
						Total+10%	23.1	10.8
						ø5:	0.0	62.9
						ø6.3:	5.6	0.0
						ø8:	7.3	0.0
						ø10:	40.0	0.0
						ø12.5:	55.0	0.0
						ø16:	34.4	0.0
						ø20:	69.0	0.0
						Total:	211.3	62.9

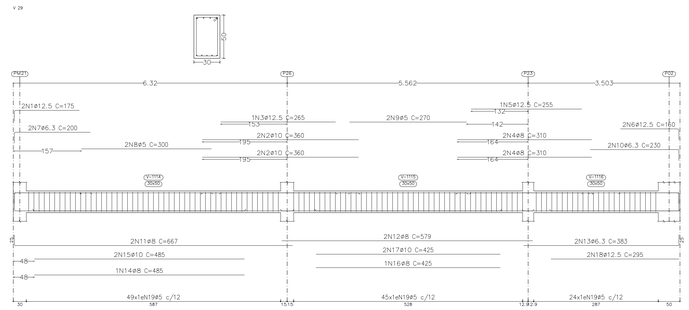
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 46	1	ø12.5	2	140	165	330	3.2	
	2	ø10	4	390	390	1560	9.6	
	3	ø8	2	220	220	440	1.7	
	4	ø12.5	2	165 / 15	170	340	3.3	
	5	ø6.3	2	150	175	350	0.9	
	6	ø5	2	325	325	650		1.0
	7	ø5	2	180	180	360		0.6
	8	ø6.3	2	145 / 15	170	340	0.8	
	9	ø10	2	659 / 15	684	1368	8.4	
	10	ø6.3	2	488 / 15	513	1026	2.5	
	11	ø10	2	485	485	970	6.0	
	12	ø12.5	2	345	345	690	6.6	
	13	ø5	85	40 / 30 / 25	148	12580		19.8
						Total+10%	47.3	23.5
						ø5:	0.0	23.5
						ø6.3:	4.6	0.0
						ø8:	1.9	0.0
						ø10:	26.4	0.0
						ø12.5:	14.4	0.0
						Total:	47.3	23.5

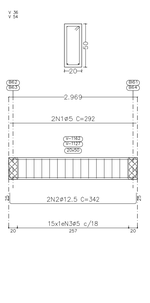
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 47	1	ø10	4	360 / 15	365	1460	9.0	
	2	ø20	1	259 / 15	295	295	7.3	
	3	ø5	2	250	250	500		0.8
	4	ø6.3	2	567 / 15	617	1234	3.0	
	5	ø12.5	2	330	355	710	6.8	
	6	ø5	38	40 / 30 / 25	148	5624		8.8
						Total+10%	28.7	10.6
						ø5:	0.0	10.6
						ø6.3:	3.3	0.0
						ø10:	9.9	0.0
						ø12.5:	21.5	0.0
						ø20:	8.0	0.0
						Total:	28.7	10.6

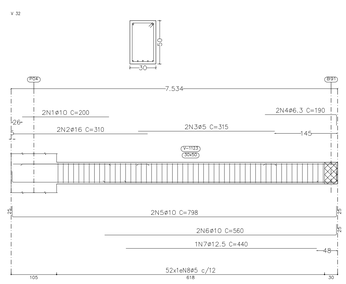
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 59	1	ø16	4	495	495	1980	31.3	
	2	ø16	2	330	330	660	10.4	
	3	ø6.3	4	270 / 15	295	1180	2.9	
	4	ø12.5	2	240 / 15	265	530	5.1	
	5	ø5	2	470	470	940		1.5
	6	ø5	2	440	440	880		1.4
	7	ø8	2	380	380	760	3.0	
	8	ø5	2	285	285	570		0.9
	9	ø10	2	721 / 15	746	1492	9.2	
	10	ø12.5	2	560 / 15	585	1170	11.3	
	11	ø12.5	3	595	595	1785	17.2	
	12	ø12.5	2	570	570	1140	11.0	
	13	ø10	2	550 / 15	575	1150	7.1	
	14	ø12.5	1	415	415	415	4.0	
	15	ø10	2	500	500	1000	6.2	
	16	ø12.5	1	485	485	485	4.7	
	17	ø5	171	40 / 30 / 25	148	25308		39.7
						Total+10%	235.7	47.9
						ø5:	0.0	47.9
						ø6.3:	3.2	0.0
						ø8:	3.3	0.0
						ø10:	24.7	0.0
						ø12.5:	58.6	0.0
						ø16:	45.9	0.0
						Total:	235.7	47.9

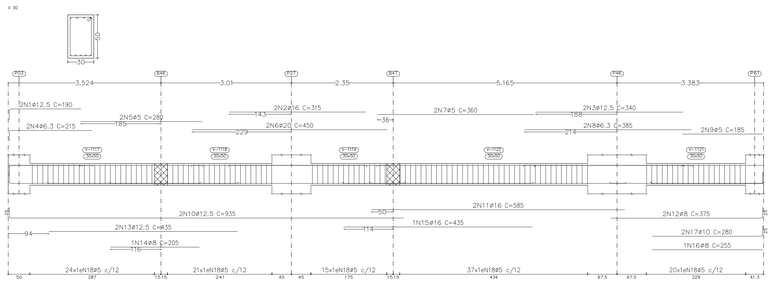


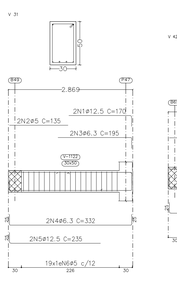


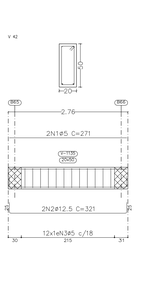


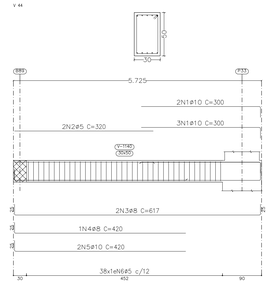


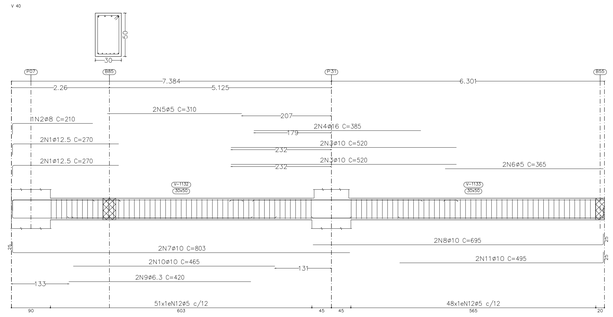


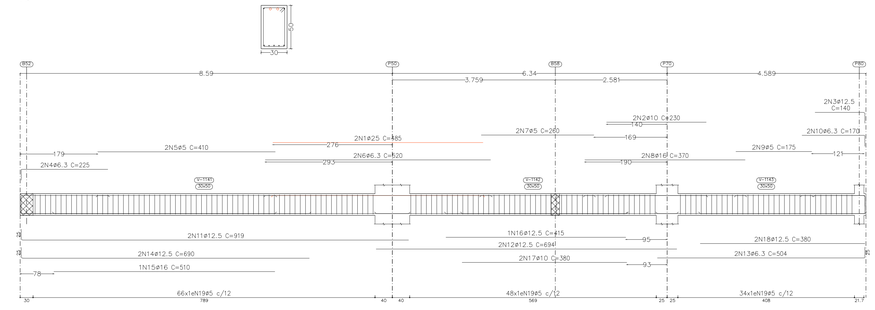


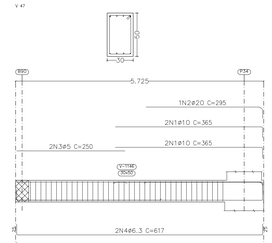


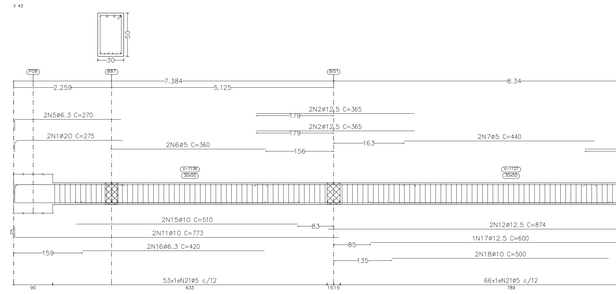


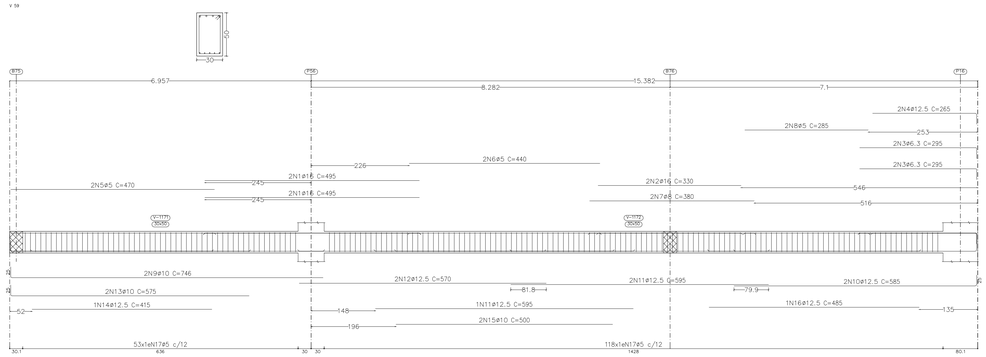












TÉRREO_cota 0.00
Desenho de vigas
Concreto: C35, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:25
Escala aberturas 1:25

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 PROJETISTA: Arq.to Marlon Vinícius Lima, CAU: A066339-8, RRT: SI11003675I00CT001

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

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

CONTRATADO:
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

APROVADO

ENG. BRUNO NIKOLAOS SILVA
Secretário Municipal de Obras

ENG. DÉBORA FABRO VALENÇO LOUREIRO
Diretora Técnica do Departamento de Obras

ARQ. GABRIELA ITO CARDOSO DE MORAES
Arquitetura de Projetos

Título	PISO TÉRREO DESENHO DE VIGAS	Folha	36 | 85
Código do DPFU	PB SMO 001 - 01/01	Data	MAIO/2022
		Escala	1/50

ARQUIVO
IN_061_01_PE_EST_V00-ESTRUTURA GERAL HOSPITAL ARUJÁ V04_JUNHO 2022.dwg

FORMATO DA FOLHA: **A0**

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