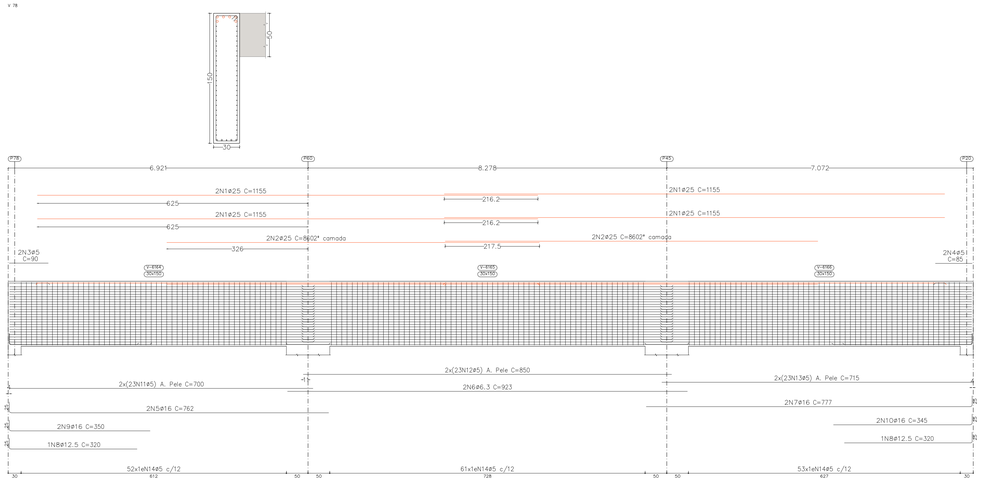
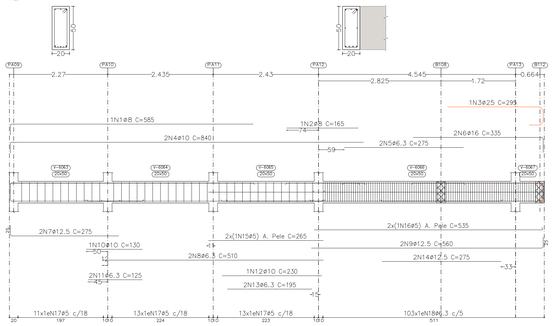
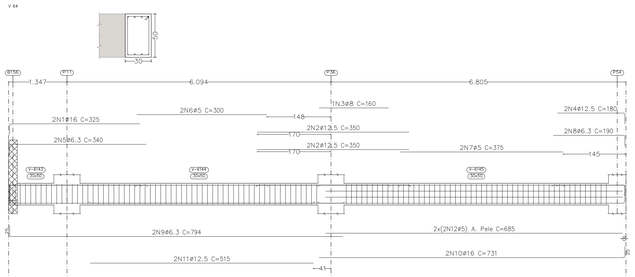
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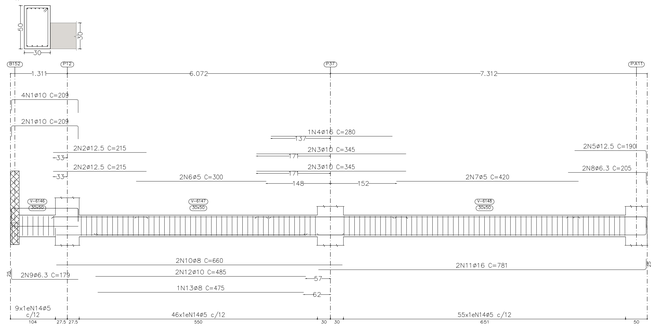
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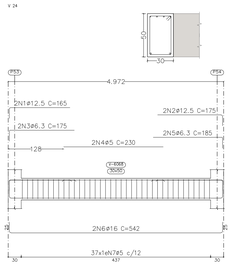
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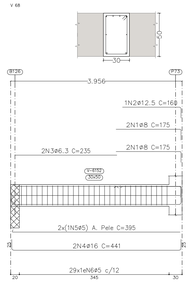
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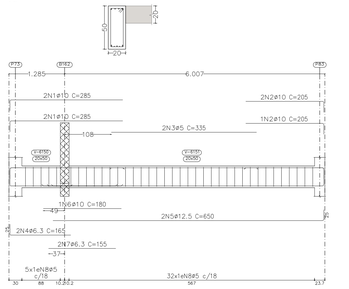
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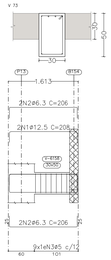
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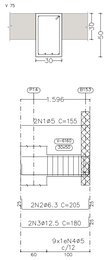
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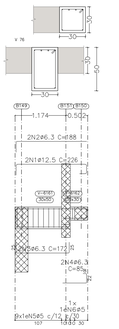
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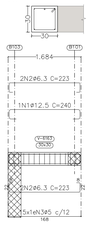
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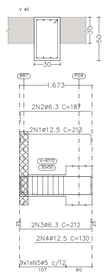
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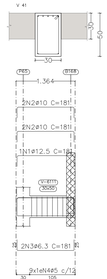
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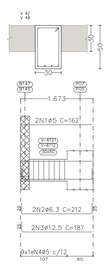
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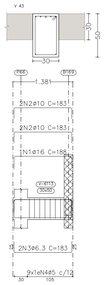
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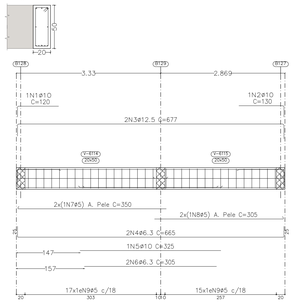
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V 49



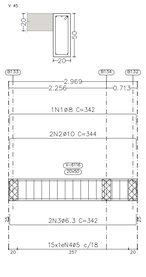
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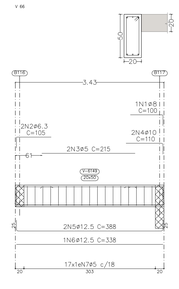
V 44



V 45



V 66



V 78

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 76	1	ø12.5	2	163 / 163	226	452	4.4	
	2	ø6.3	2	163	188	376	0.9	
	3	ø6.3	2	122	172	344	0.8	
	4	ø6.3	2	55 / 55	85	170	0.4	
	5	ø5	9	25	148	1332		2.1
	6	ø5	1	25	108	108		0.2
				Total+10%			7.2	2.5
V 77	1	ø12.5	1	163 / 163	240	240	2.3	
	2	ø6.3	4	163 / 163	223	892	2.2	
	3	ø5	15	25	108	1620		2.5
				Total+10%			5.0	2.8
				ø5:			0.0	5.3
				ø6.3:			4.9	0.0
				ø12.5:			7.3	0.0
				Total:			12.2	5.3

V 67

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 67	1	ø10	4	265	285	1140	7.0	
	2	ø10	3	180	205	615	3.8	
	3	ø5	2	335	335	670		1.1
	4	ø6.3	2	140	165	330	0.8	
	5	ø12.5	2	625 / 15	650	1300	12.5	
	6	ø10	1	180	180	180	1.1	
	7	ø6.3	2	155	155	310	0.8	
	8	ø5	37	25	128	4736		7.4
				Total+10%			28.6	9.4
V 73	1	ø12.5	2	156 / 15	208	416	4.0	
	2	ø6.3	4	156 / 15	206	824	2.0	
	3	ø5	9	25	148	1332		2.1
				Total+10%			6.6	2.3
V 75	1	ø5	2	155	155	310		0.5
	2	ø6.3	2	155 / 15	205	410	1.0	
	3	ø12.5	2	155 / 15	180	360	3.5	
	4	ø5	9	25	148	1332		2.1
				Total+10%			5.0	2.9
				ø5:			0.0	14.6
				ø6.3:			5.1	0.0
				ø10:			13.1	0.0
				ø12.5:			22.0	0.0
				Total:			40.2	14.6

V 78

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 78	1	ø25	8	1155	1155	9240	356.1	
	2	ø25	4	860	860	3440	132.6	
	3	ø5	2	90	90	180		0.3
	4	ø5	2	85	85	170		0.3
	5	ø16	2	737	762	1524	24.1	
	6	ø6.3	2	923	923	1846	4.5	
	7	ø16	2	752	777	1554	24.5	
	8	ø12.5	2	295	320	640	6.2	
	9	ø16	2	320	350	700	11.1	
	10	ø16	2	320	345	690	10.9	
	11	ø5	46	700	700	32200		50.6
	12	ø5	46	850	850	39100		61.4
	13	ø5	46	715	715	32890		51.6
	14	ø5	166	25	348	57768		90.7
				Total+10%			627.0	280.4
				ø5:			0.0	280.4
				ø6.3:			5.0	0.0
				ø12.5:			6.8	0.0
				ø16:			77.6	0.0
				ø25:			537.6	0.0
				Total:			627.0	280.4

V 64

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 64	1	ø16	2	300	325	650	10.3	
	2	ø12.5	4	350	350	1400	13.5	
	3	ø8	1	160	160	160	0.6	
	4	ø12.5	2	155 / 15	180	360	3.5	
	5	ø6.3	2	315	340	680	1.7	
	6	ø5	2	300	300	600		0.9
	7	ø5	2	375	375	750		1.2
	8	ø6.3	2	165 / 15	190	380	0.9	
	9	ø6.3	2	769	794	1588	3.9	
	10	ø16	2	706 / 15	731	1462	23.1	
	11	ø12.5	2	515	515	1030	9.9	
	12	ø5	4	685	685	2740		4.3
	13	ø5	111	25	148	16428		25.8
				Total+10%			74.1	35.4
V 65	1	ø10	6	154 / 18	209	1254	7.7	
	2	ø12.5	4	215	215	860	8.3	
	3	ø10	4	345	345	1380	8.5	
	4	ø16	1	280	280	280	4.4	
	5	ø12.5	2	165 / 15	190	380	3.7	
	6	ø5	2	300	300	600		0.9
	7	ø5	2	420	420	840		1.3
	8	ø6.3	2	180 / 15	205	410	1.0	
	9	ø6.3	2	154	179	358	0.9	
	10	ø8	2	660	660	1320	5.2	
	11	ø16	2	706 / 15	781	1562	24.7	
	12	ø10	2	485	485	970	6.0	
	13	ø8	1	475	475	475	1.9	
	14	ø5	110	25	148	16280		25.6
				Total+10%			79.5	30.6
V 66	1	ø8	1	75 / 15	100	100	0.4	
	2	ø6.3	2	80	105	210	0.5	
	3	ø5	2	215	215	430		0.7
	4	ø10	2	85 / 15	110	220	1.4	
	5	ø12.5	2	338 / 15	388	776	7.5	
	6	ø12.5	1	338	338	338	3.3	
	7	ø5	17	25	128	2176		3.4
				Total+10%			14.4	4.5
V 68	1	ø8	4	150 / 15	175	700	2.8	
	2	ø12.5	1	120 / 15	160	160	1.5	
	3	ø6.3	2	235	235	470	1.2	
	4	ø16	2	391 / 15	441	882	13.9	
	5	ø5	2	389	395	790		1.2
	6	ø5	29	25	148	4292		6.7
				Total+10%			21.3	8.7
				ø5:			0.0	79.2
				ø6.3:			11.2	0.0
				ø8:			12.0	0.0
				ø10:			25.9	0.0
				ø12.5:			56.3	0.0
				ø16:			83.9	0.0
				Total:			189.3	79.2

V 23

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 23	1	ø8	1	560	585	585	2.3	
	2	ø8	1	165	165	165	0.7	
	3	ø25	1	221 / 33	295	295	11.4	
	4	ø10	2	815	840	1680	10.4	
	5	ø6.3	2	275	275	550	1.3	
	6	ø16	2	300 / 15	335	670	10.6	
	7	ø12.5	2	250	275	550	5.3	
	8	ø6.3	2	510	510	1020	2.5	
	9	ø12.5	2	525 / 15	560	1120	10.8	
	10	ø10	1	130	130	130	0.8	
	11	ø6.3	2	125	125	250	0.6	
	12	ø10	1	230	230	230	1.4	
	13	ø6.3	2	195	195	390	1.0	
	14	ø12.5	2	275	275	550	5.3	
	15	ø5	2	265	265	530		0.8
	16	ø5	2	529	535	1070		1.7
	17	ø5	37	25 / 15	128	4736		7.4
	18	ø6.3	103	25 / 14	130	13390	32.8	
				Total+10%			106.9	10.9
V 24	1	ø12.5	2	140	165	330	3.2	
	2	ø12.5	2	150 / 15	175	350	3.4	
	3	ø6.3	2	150	175	350	0.9	
	4	ø5	2	230	230	460		0.7
	5	ø6.3	2	160 / 15	185	370	0.9	
	6	ø16	2	492 / 15	542	1084	17.1	
	7	ø5	37	25	148	5476		8.6
				Total+10%			28.1	10.2
V 40	1	ø12.5	2	162 / 15	213	426	4.1	
	2	ø6.3	2	162 / 15	187	374	0.9	
	3	ø6.3	2	162 / 15	212	424	1.0	
	4	ø12.5	2	130	130	260	2.5	
	5	ø5	9	25	148	1332		2.1
				Total+10%			9.4	2.3
V 41	1	ø12.5	1	131 / 15	181	181	1.7	
	2	ø10	4	131 / 15	181	724	4.5	
	3	ø6.3	2	131 / 15	181	362	0.9	
	4	ø5	9	25	148	1332		2.1
				Total+10%			7.8	2.3
V 42=V 49	1	ø5	2	162	162	324		0.5
	2	ø6.3	2	162 / 15	212	424	1.0	
	3	ø12.5	2	162 / 15	187	374	3.6	
	4	ø5	9	25	148	1332		2.1
				Total+10% (x2)			5.1 10.2	2.9 5.8
V 43	1	ø16	1	133 / 15	188	188	3.0	
	2	ø10	4	133 / 15	183	732	4.5	
	3	ø6.3	2	133 / 15	183	366	0.9	
	4	ø5	9	25	148	1332		2.1
				Total+10%			9.2	2.3
V 45	1	ø8	1	292 / 15	342	342	1.4	
	2	ø10	2	292 / 15	344	688	4.2	
	3	ø6.3	2	292 / 15	342	684	1.7	
	4	ø5	15	25	128	1920		3.0
				Total+10%			8.0	3.3
				ø5:			0.0	46.5
				ø6.3:			5.7	0.0
				ø8:			4.8	0.0
				ø10:			32.4	0.0
				ø12.5:			62.3	0.0
				ø16:			33.9	0.0
				ø25:			12.5	0.0
				Total:			203.0	46.5

V 44

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 44	1	ø10	1	95	120	120	0.7	
	2	ø10	1	104 / 16	130	130	0.8	
	3	ø12.5	2	815 / 15	677	1354	13.0	
	4	ø6.3	2	815 / 15	665	1330	3.3	
	5	ø10	1	325	325	325	2.0	
	6	ø6.3	2	305	305	610	1.5	
	7	ø5	2	344	350	700		1.1
	8	ø5	2	299	305	610		1.0
	9	ø5	32	25 / 15	128	4096		6.4
				Total+10%	23.4	9.4		

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
VERSÃO	DATA	DES.	VER.	APR.	DESCRIÇÃO

RESPONSÁVEIS TÉCNICOS:

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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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Secretário Municipal de Obras

ENG. DÉBORA FABRO 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: 69 | 85

Código do DPFU: 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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