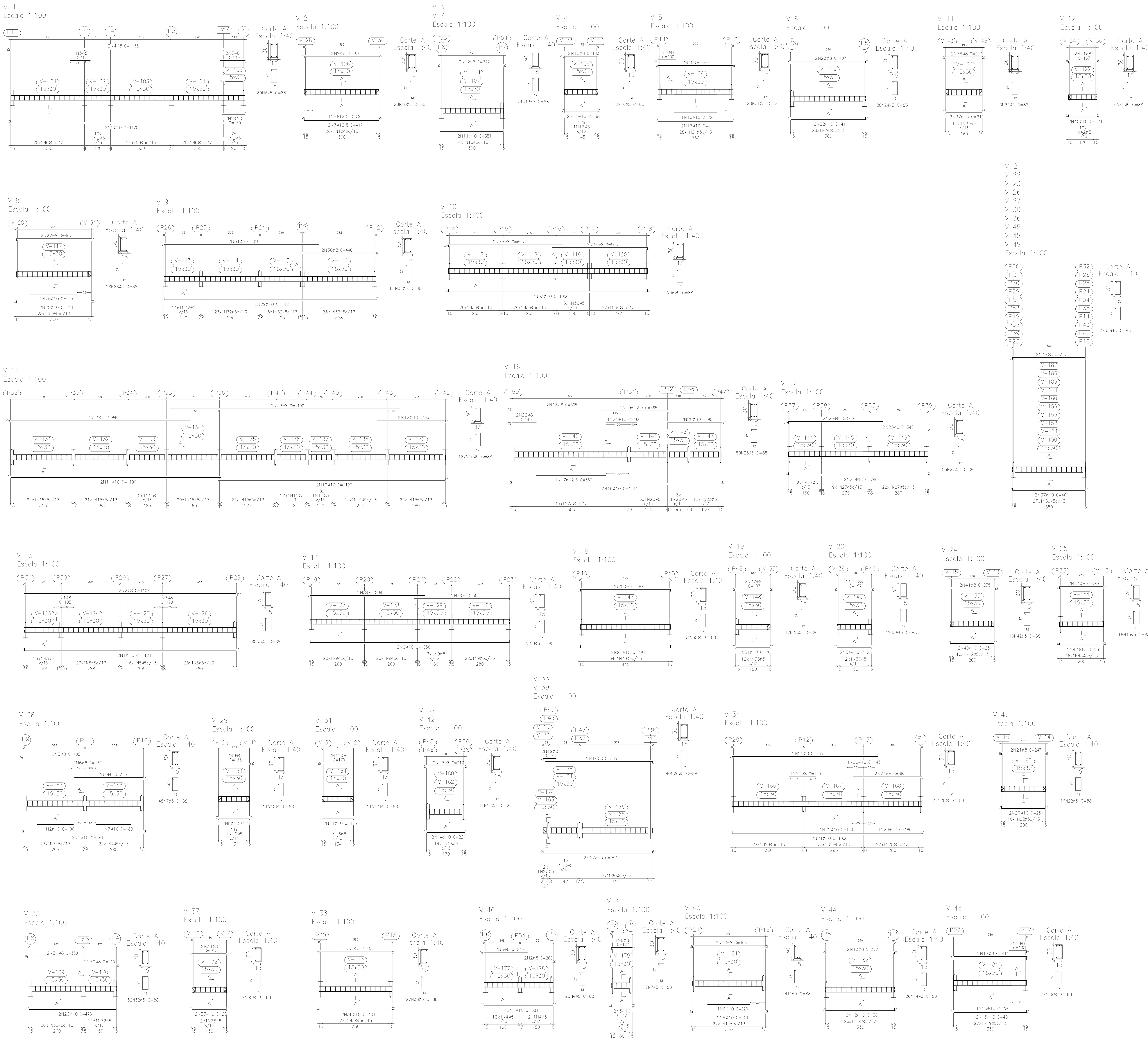

Resumo Aço Térreo Vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50-A	ø8	520.3	225	
	ø10	506.2	350	
	ø12.5	22.2	24	599
CA-60-B	ø5	1496.9	259	259
Total				858

Térreo
Desenho de vigas
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala vigas: 1:100
Escala seções: 1:40

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 47	20	ø10	2					502	3.2	
	21	ø8	2					494	1.9	
	22	ø5	16				88	1408		2.2
								Total+10%:	5.6	2.4
								ø5:	0.0	19.6
								ø8:	18.2	0.0
								ø10:	29.9	0.0
								Total:	48.1	19.6

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 1	1	ø10	2	12	1108		1120	2240	14.1	
	2	ø10	2		118	12	130	260	1.6	
	3	ø8	2		130	10	140	280	1.1	
	4	ø8	2	10	1125		1135	2270	8.9	
	5	ø8	1		105		105	105	0.4	
	6	ø5	89				88	7832		12.3
								Total+10%:	28.7	13.5
V 2	7	ø12.5	2	15	387	15	417	834	8.2	
	8	ø12.5	1		295		295	295	2.9	
	9	ø8	2	10	387	10	407	814	3.2	
	10	ø5	28				88	2464		3.9
								Total+10%:	15.7	4.3
V 3=V 7	11	ø10	2	12	327	12	351	702	4.4	
	12	ø8	2	10	327	10	347	694	2.7	
	13	ø5	24				88	2112		3.3
								Total+10%:	7.8	3.6
								(x2):	15.6	7.2
V 4	14	ø10	2	12	172	12	196	392	2.5	
	15	ø8	2	10	170		180	360	1.4	
	16	ø5	12				88	1056		1.7
								Total+10%:	4.3	1.9
V 5	17	ø10	2	12	387	12	411	822	5.2	
	18	ø10	1		225		225	225	1.4	
	19	ø8	2	16	387	16	419	838	3.3	
	20	ø8	2	10	90		100	200	0.8	
	21	ø5	28				88	2464		3.9
								Total+10%:	11.8	4.3
V 6	22	ø10	2	12	387	12	411	822	5.2	
	23	ø8	2	10	387	10	407	814	3.2	
	24	ø5	28				88	2464		3.9
								Total+10%:	9.2	4.3
V 8	25	ø10	2	12	387	12	411	822	5.2	
	26	ø10	1		245		245	245	1.5	
	27	ø8	2	10	387	10	407	814	3.2	
	28	ø5	28				88	2464		3.9
								Total+10%:	10.9	4.3
V 9	29	ø10	2	12	1097	12	1121	2242	14.1	
	30	ø8	2		430	10	440	880	3.5	
	31	ø8	2	10	800		810	1620	6.4	
	32	ø5	81				88	7128		11.2
								Total+10%:	26.4	12.3
V 10	33	ø10	2	12	1032	12	1056	2112	13.3	
	34	ø8	2		495	10	505	1010	4.0	
	35	ø8	2	10	595		605	1210	4.7	
	36	ø5	75				88	6600		10.4
								Total+10%:	24.2	11.4
V 11	37	ø10	2	12	187	12	211	422	2.7	
	38	ø8	2	10	187	10	207	414	1.6	
	39	ø5	13				88	1144		1.8
								Total+10%:	4.7	2.0
V 12	40	ø10	2	12	147	12	171	342	2.1	
	41	ø8	2	10	147	10	167	334	1.3	
	42	ø5	10				88	880		1.4
								Total+10%:	3.7	1.5
								ø5:	0.0	67.0
								ø8:	57.5	0.0
								ø10:	85.5	0.0
								ø12.5:	12.2	0.0
								Total:	155.2	67.0

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 13	1	ø10	2	12	1097	12	1121	2242	14.1	
	2	ø8	2		1097	10	1107	2214	8.7	
	3	ø8	1		120		120	120	0.5	
	4	ø8	1		105		105	105	0.4	
	5	ø5	80				88	7040		11.1
								Total+10%:	26.1	12.2
V 14	6	ø10	2	12	1032	12	1056	2112	13.3	
	7	ø8	2		495	10	505	1010	4.0	
	8	ø8	2	10	595		605	1210	4.7	
	9	ø5	75				88	6600		10.4
								Total+10%:	24.2	11.4
V 15	10	ø10	2		1178	12	1190	2380	14.9	
	11	ø10	2	12	1088		1100	2200	13.8	
	12	ø8	2		355	10	365	730	2.9	
	13	ø8	2		1190		1190	2380	9.3	
	14	ø8	2	10	930		940	1880	7.4	
	15	ø5	167				88	14696		23.1
								Total+10%:	53.1	25.4
V 16	16	ø10	2	12	1087	12	1111	2222	14.0	
	17	ø12.5	1		360		360	360	3.5	
	18	ø8	2	15	490		505	1010	4.0	
	19	ø12.5	2		365		365	730	7.2	
	20	ø8	2		285	10	295	590	2.3	
	21	ø10	1		160		160	160	1.0	
	22	ø8	2	14	126		140	280	1.1	
	23	ø5	80				88	7040		11.1
								Total+10%:	36.4	12.2
V 17	24	ø10	2	12	722	12	746	1492	9.4	
	25	ø8	2		335	10	345	690	2.7	
	26	ø8	2	10	490		500	1000	3.9	
	27	ø5	53				88	4664		7.3
								Total+10%:	17.6	8.0
V 18	28	ø10	2	12	467	12	491	982	6.2	
	29	ø8	2	10	467	10	487	974	3.8	
	30	ø5	34				88	2992		4.7
								Total+10%:	11.0	5.2
V 19	31	ø10	2	12	177	12	201	402	2.5	
	32	ø8	2	10	177	10	197	394	1.5	
	33	ø5	12				88	1056		1.7
								Total+10%:	4.4	1.9
V 20	34	ø10	2	12	177	12	201	402	2.5	
	35	ø8	2	10	177	10	197	394	1.5	
	36	ø5	12				88	1056		1.7
								Total+10%:	4.4	1.9
V 21=V 22=V 23 V 26=V 27=V 30 V 36=V 45=V 48 V 49	37	ø10	2	12	377	12	401	802	5.0	
	38	ø8	2	10	377	10	397	794	3.1	
	39	ø5	27				88	2376		3.7
								Total+10%:	8.9	4.1
								(x10):	89.0	41.0
V 24	40	ø10	2	12	227	12	251	502	3.2	
	41	ø8	2		225	10	235	470	1.8	
	42	ø5	16				88	1408		2.2
								Total+10%:	5.5	2.4
V 25	43	ø10	2	12	227	12	251	502	3.2	
	44	ø8	2	10	227	10	247	494	1.9	
	45	ø5	16				88	1408		2.2
								Total+10%:	5.6	2.4
								ø5:	0.0	124.0
								ø8:	102.6	0.0
								ø10:	162.9	0.0
								ø12.5:	11.8	0.0
								Total:	277.3	124.0

PREFEITURA MUNICIPAL DE CANDIOTA

SECRETÁRIO DE OBRAS: ARTÊMIO PARCIANELLO	RESPONSÁVEL TÉCNICO: MARCELO VAZ LEAL, ENGº CIVIL - CREA 85578-D
LOCAL: P.A. 8 DE AGOSTO	PROJETO: UNIDADE BÁSICA DE SAÚDE
ESPECIFICAÇÃO: PROJETO ESTRUTURAL - FUNDAÇÃO	ESCALA: 1:100 — PRANCHA: EST-11