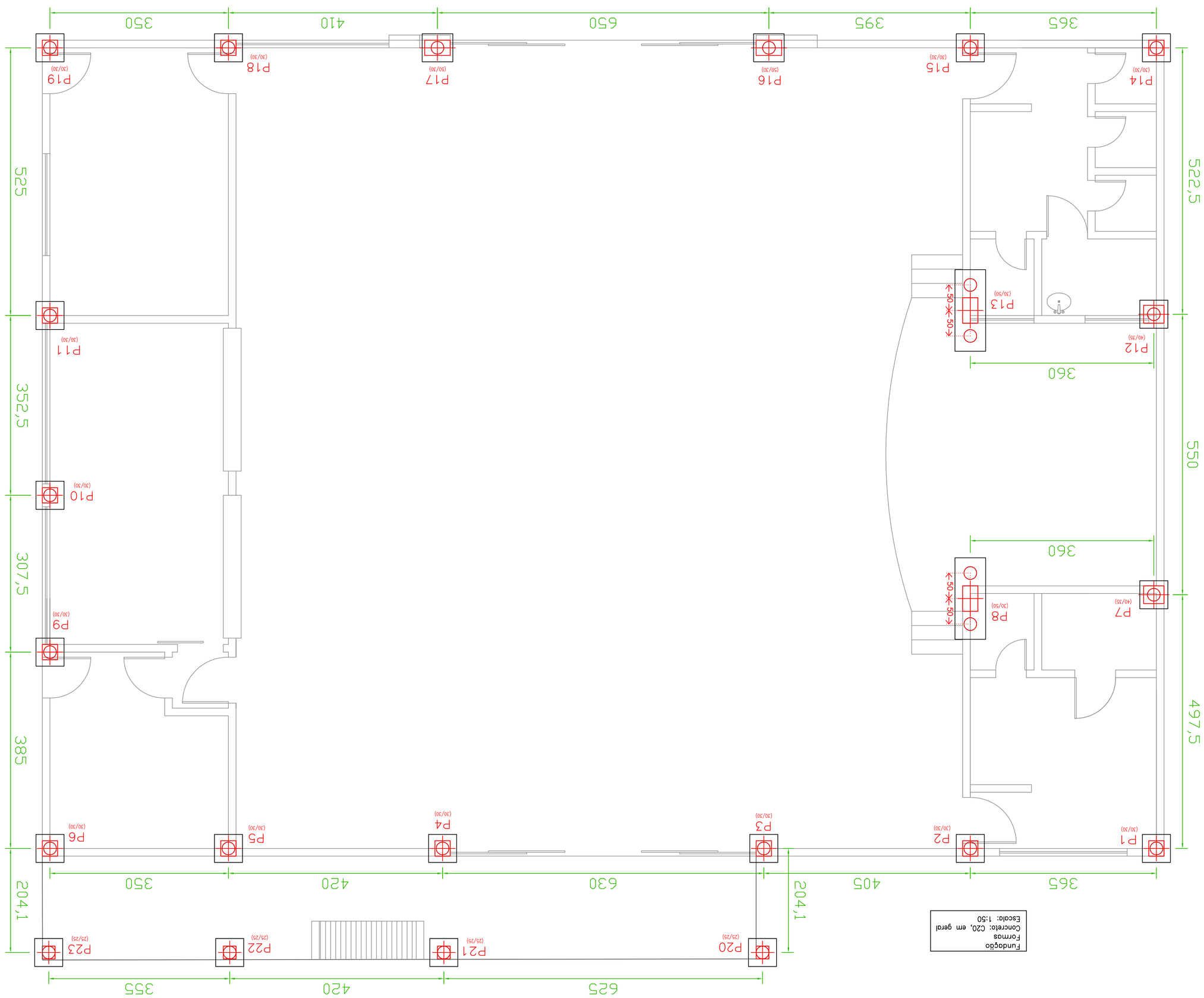
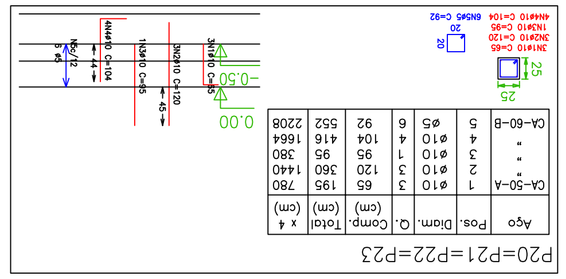


Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
P1=P2=P5=P4=P5	1	ø10	2		158		158	316	2.0	
P10=P14=P15=P18	2	ø10	2		154		154	308	1.9	
	3	ø8	2		201		201	402	1.6	
	4	ø10	6	30	67		97	482	3.7	
	5	ø4.2	3		107		107	321		0.4
							Total+10%:	(x9):	10.1	0.4
									90.9	3.6
P6=P9=P11=P19	6	ø10	2		158		158	316	2.0	
	7	ø10	2		154		154	308	1.9	
	8	ø8	2		201		201	402	1.6	
	9	ø10	6	30	67		97	582	3.7	
	10	ø4.2	3		107		107	321		0.4
							Total+10%:	(x4):	10.1	0.4
									40.4	1.6
P7=P12	11	ø10	2		158		158	316	2.0	
	12	ø10	2		154		154	308	1.9	
	13	ø8	2		201		201	402	1.6	
	14	ø10	8	30	67		97	776	4.9	
	15	ø4.2	3		137		137	411		0.4
							Total+10%:	(x2):	11.4	0.4
									22.8	0.8
P8=P13	16	ø10	4	35	150	35	220	880	5.5	
	17	ø10	4	35	150	35	220	880	5.5	
	18	ø10	8		256		256	2048	12.9	
	19	ø10	14		198		198	2772	17.4	
	20	ø10	8	30	82		112	896	5.6	
	21	ø4.2	3		147		147	441		0.5
							Total+10%:	(x2):	51.6	0.6
									103.2	1.2
P16=P17	22	ø10	2		168		168	336	2.1	
	23	ø10	2		154		154	308	1.9	
	24	ø8	2		211		211	422	1.7	
	25	ø10	8	30	67		97	776	4.9	
	26	ø4.2	3		147		147	441		0.5
							Total+10%:	(x2):	11.7	0.6
									23.4	1.2
P20=P21=P22=P23	1	ø10	2		158		158	316	2.0	
	2	ø10	2		154		154	308	1.9	
	3	ø8	2		201		201	402	1.6	
	4	ø10	4	30	67		97	388	2.4	
	5	ø4.2	3		87		87	261		0.3
							Total+10%:	(x4):	8.7	0.3
									34.8	1.2

Pilares que terminam em Baldrame
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala: 1:50

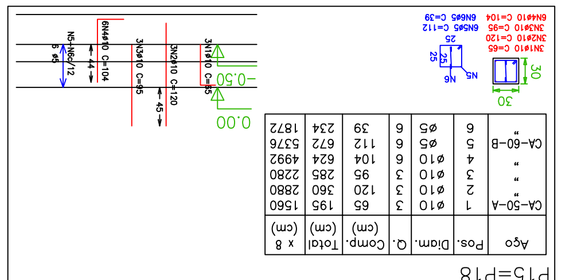
P6=P9=P11=P19

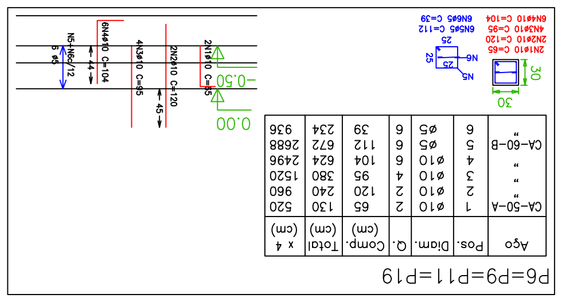
Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 4 (cm)
CA-50-A	1	ø10	3	65	195	780
"	2	ø10	3	120	360	1440
"	3	ø10	1	95	95	380
"	4	ø10	4	104	416	1664
CA-60-B	5	ø5	6	92	552	2208



P1=P2=P3=P4=P5=P14=P15=P18

Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 8 (cm)
CA-50-A	1	ø10	3	65	195	1560
"	2	ø10	3	120	360	2880
"	3	ø10	3	95	285	2280
"	4	ø10	6	104	624	4992
CA-60-B	5	ø5	6	112	672	5376
"	6	ø5	6	39	234	1872





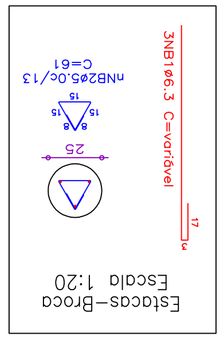
Resumo Aço Baldrame Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø10	214.7	148	148
CA-60-B ø5	130.8	23	23
Total			171

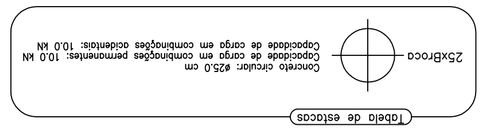
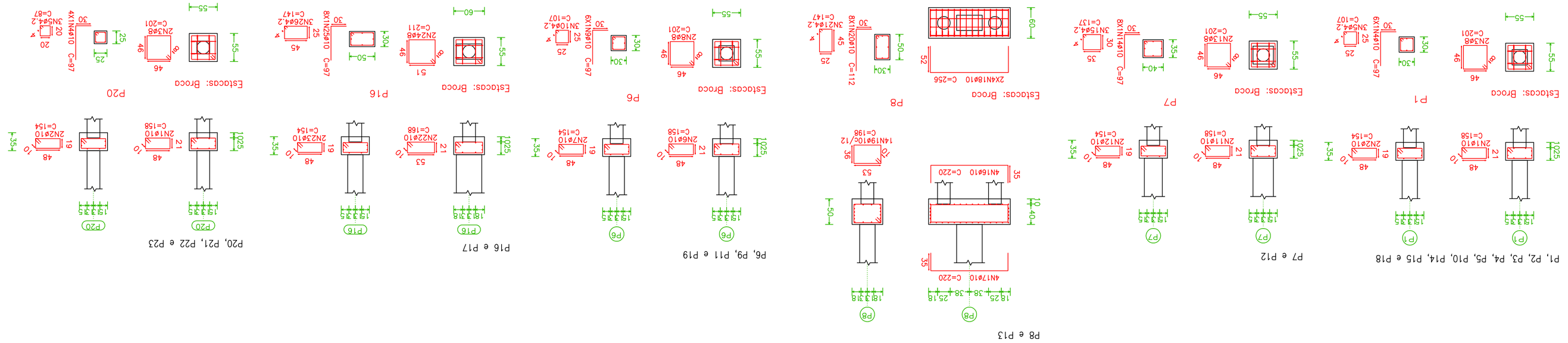
Resumo Aço Fundação Detalhamento fundação	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø8	84.8	37	
ø10	403.2	279	316
CA-60-B ø4.2	78.0	9	9
Total			325

Legenda de Pilares

- Pilar que nasce
- Pilar que continua
- Pilar que morre

Estacas-Broca
Escala 1:20





Estacas-Broca na profundidade de encontro com solo resistente, ou na profundidade mínima de 4m.