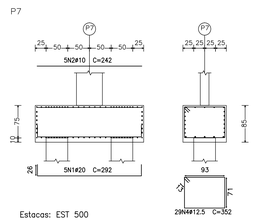
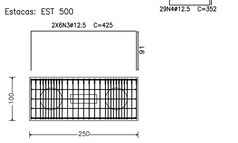
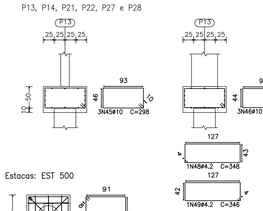
P7



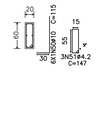
Estacas: EST 500



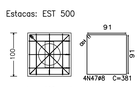
P13, P14, P21, P22, P27 e P28



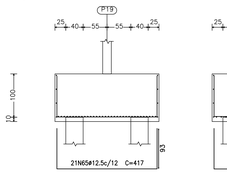
P13

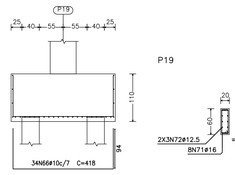


Estacas: EST 500

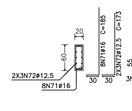


P19

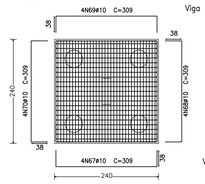




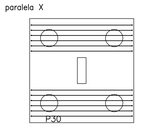
P19

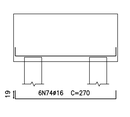


Estacas: EST 400

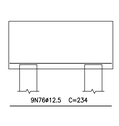


Viga paralela X

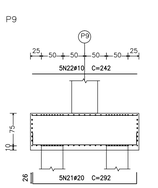


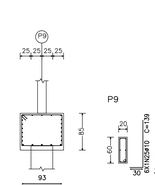


Viga paralela Y

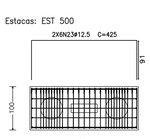


P9



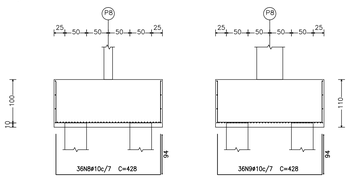


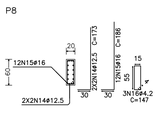
Estacas: EST 500



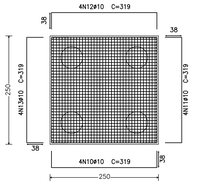
Resumo Aço Fundação Detalhamento fundação		Comp. total (m)	Peso+10% (kg)	Total
CA-50-A	ø8	483.8	208	
	ø10	4218.3	2920	
	ø12.5	4356.1	4702	
	ø16	337.1	582	
	ø20	57.9	157	8645
CA-60-B	ø4.2	760.0	76	76
Total				8721

P8

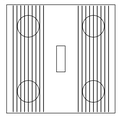


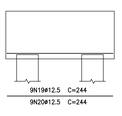


Estacas: EST 500

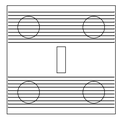


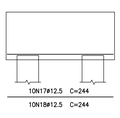
Viga paralela Y



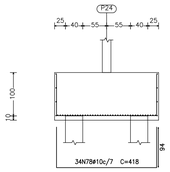


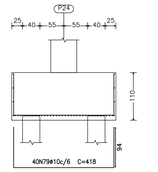
Viga paralela X



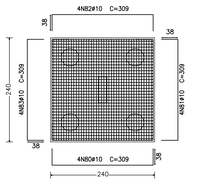


P24

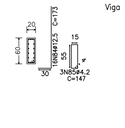




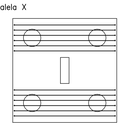
Estacas: EST 400

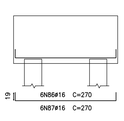


P24

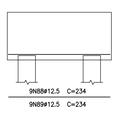


Viga paralela X

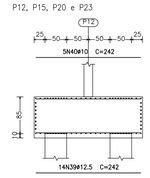


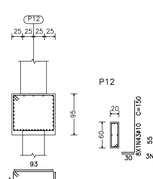


Viga paralela Y



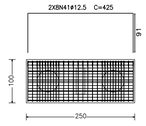
P12, P15, P20 e P23



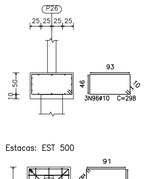


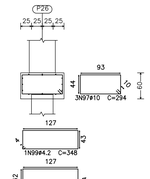
P12

Estacas: EST 500

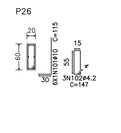


P26 e P29

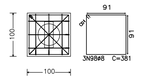




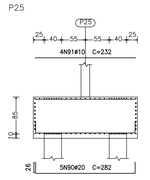
P26

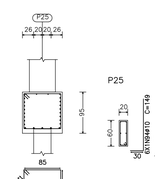


Estacas: EST 500

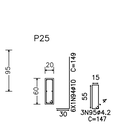


P25

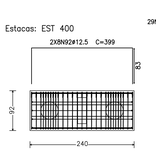




P25

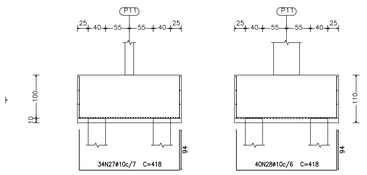


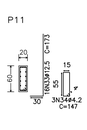
Estacas: EST 400



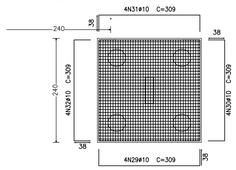
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
P7	1	ø20	5	26	240	26	292	1460	36.1	
	2	ø10	5		242		242	1210	7.6	
	3	ø12.5	12	91	243	91	425	5100	50.0	
	4	ø12.5	29		352		352	10208	100.2	
	5	ø10	2	30	109		139	278	1.7	
	6	ø12.5	6	30	118		148	888	8.7	
	7	ø4.2	3		147		147	441		0.5
								Total+10%	224.7	0.6
P8	8	ø10	36	94	240	94	428	15408	96.8	
	9	ø10	36	94	240	94	428	15408	95.8	
	10	ø10	4	38	243	38	319	1276	8.0	
	11	ø10	4	38	243	38	319	1276	8.0	
	12	ø10	4	38	243	38	319	1276	8.0	
	13	ø10	4	38	243	38	319	1276	8.0	
	14	ø12.5	1	30	143		173	692	6.8	
	15	ø16	12	30	156		186	2232	35.0	
	16	ø4.2	3		147		147	441		0.5
	17	ø12.5	10		244		244	2440	23.9	
	18	ø12.5	10		244		244	2440	23.9	
	19	ø12.5	9		244		244	2196	21.5	
	20	ø12.5	9		244		244	2196	21.5	
								Total+10%	394.0	0.6
P9	21	ø20	5	26	240	26	292	1460	36.1	
	22	ø10	5		242		242	1210	7.6	
	23	ø12.5	12	91	243	91	425	5100	50.0	
	24	ø12.5	29		352		352	10208	100.2	
	25	ø10	6	30	109		139	834	5.2	
	26	ø4.2	3		147		147	441		0.5
								Total+10%	219.0	0.6
P11	27	ø10	34	94	230	94	418	14212	89.3	
	28	ø10	40	94	230	94	418	16720	105.0	
	29	ø10	4	38	233	38	309	1236	7.8	
	30	ø10	4	38	233	38	309	1236	7.8	
	31	ø10	4	38	233	38	309	1236	7.8	
	32	ø10	4	38	233	38	309	1236	7.8	
	33	ø12.5	16	30	143		173	2768	27.2	
	34	ø4.2	3		147		147	441		0.5
	35	ø12.5	9		234		234	2106	20.7	
	36	ø12.5	9		234		234	2106	20.7	
	37	ø12.5	8		234		234	1872	18.4	
	38	ø12.5	8		234		234	1872	18.4	
								Total+10%	364.0	0.6
P12=P15=P20=P23	39	ø12.5	14		242		242	3388	33.2	
	40	ø10	5		242		242	1210	7.6	
	41	ø12.5	16	91	243	91	425	6800	66.7	
	42	ø12.5	30		372		372	11160	109.5	
	43	ø10	8	30	120		150	1200	7.5	
	44	ø4.2	3		147		147	441		0.5
								Total+10% (x4)	247.0 988.0	0.6 2.4
P13=P14=P21=P22 P27=P28	45	ø10	3		298		298	894	5.6	
	46	ø10	3		294		294	882	5.5	
	47	ø8	4		381		381	1524	6.0	
	48	ø4.2	1		348		348	348		0.4
	49	ø4.2	1		346		346	346		0.4
	50	ø10	6	30	85		115	690	4.3	
	51	ø4.2	3		147		147	441		0.5
								Total+10% (x8)	23.5 141.0	1.4 8.4
P16	52	ø10	34	94	230	94	418	14212	89.3	
	53	ø10	40	94	230	94	418	16720	105.0	
	54	ø10	4	38	233	38	309	1236	7.8	
	55	ø10	4	38	233	38	309	1236	7.8	
	56	ø10	4	38	233	38	309	1236	7.8	
	57	ø10	4	38	233	38	309	1236	7.8	
	58	ø12.5	8	30	143		173	1384	13.6	
	59	ø16	4	30	156		186	744	11.7	
	60	ø4.2	3		147		147	441		0.5
	61	ø16	6	19	232	19	270	1620	25.4	
	62	ø16	6	19	232	19	270	1620	25.4	
	63	ø12.5	8		234		234	1872	18.4	
	64	ø12.5	8		234		234	1872	18.4	
								Total+10%	372.2	0.6
P19	65	ø12.5	21	93	231	93	417	8757	85.9	
	66	ø10	34	94	230	94	418	14212	89.3	
	67	ø10	4	38	233	38	309	1236	7.8	
	68	ø10	4	38	233	38	309	1236	7.8	
	69	ø10	4	38	233	38	309	1236	7.8	
	70	ø10	4	38	233	38	309	1236	7.8	
	71	ø16	6	30	155		185	1480	23.2	
	72	ø12.5	6	30	143		173	1038	10.2	
	73	ø4.2	3		147		147	441		0.5
	74	ø16	6	19	232	19	270	1620	25.4	
	75	ø16	6	19	232	19	270	1620	25.4	
	76	ø12.5	9		234		234	2106	20.7	
	77	ø12.5	9		234		234	2106	20.7	
								Total+10%	365.2	0.6
P24	78	ø10	34	94	230	94	418	14212	89.3	
	79	ø10	40	94	230	94	418	16720	105.0	
	80	ø10	4	38	233	38	309	1236	7.8	
	81	ø10	4	38	233	38	309	1236	7.8	
	82	ø10	4	38	233	38	309	1236	7.8	
	83	ø10	4	38	233	38	309	1236	7.8	
	84	ø12.5	16	30	143		173	2768	27.2	
	85	ø4.2	3		147		147	441		0.5
	86	ø16	6	19	232	19	270	1620	25.4	
	87	ø16	6	19	232	19	270	1620	25.4	
	88	ø12.5	9		234		234	2106	20.7	
	89	ø12.5	9		234		234	2106	20.7	
								Total+10%	379.4	0.6
P25	90	ø20	5	26	230	26	282	1410	34.9	
	91	ø10	4		232		232	928	5.8	
	92	ø12.5	16	83	233	83	399	6384	62.6	
	93	ø12.5	29		356		356	10324	101.3	
	94	ø10	6	30	119		149	894	5.6	
	95	ø4.2	3		147		147	441		0.5
								Total+10%	231.2	0.6
P26=P29	96	ø10	3		298		298	894	5.6	
	97	ø10	3		294		294	882	5.5	
	98	ø8	3		381		381	1143	4.5	
	99	ø4.2	1		348		348	348		0.4
	100	ø4.2	1		346		346	346		0.4
	101	ø10	6	30	85		115	690	4.3	
	102	ø4.2	3		147		147	441		0.5
								Total+10% (x2)	21.9 43.8	1.4 2.8
P30=P31=P32=P36	103	ø10	3		298		298	894	5.6	
	104	ø10	3		294		294	882	5.5	
	105	ø8	3		381		381	1143	4.5	
	106	ø4.2	1		348		348	348		0.4
	107	ø4.2	1		346		346	346		0.4
	108	ø10	6	30	85		115	690	4.3	
	109	ø4.2	3		147		147	441		0.5
								Total+10% (x4)	21.9 87.6	1.4 5.6

P11

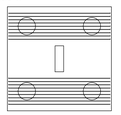


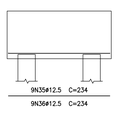


Estacas: EST 400

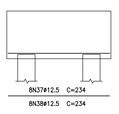


Viga paralela X

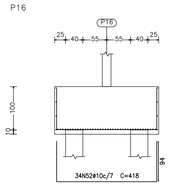


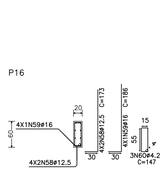


Viga paralela Y



P16





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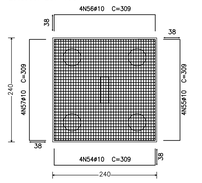
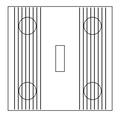
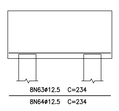
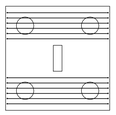


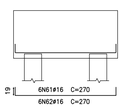
Viga paralela Y



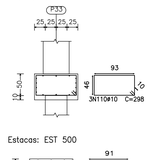


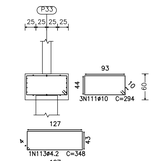
Viga paralela X



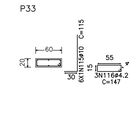


P33 e P37

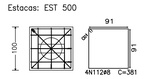




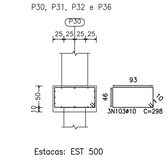
P33

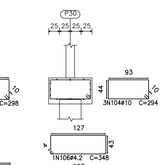


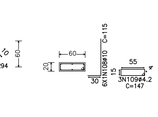
Estacas: EST 500



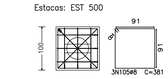
P30, P31, P32 e P36







Estacas: EST 500



Nota:

Planta de referência de bloco de fundação: Prancha 03/64.

AVALIAÇÃO DA QUALIDADE DA ESTRUTURA

RECEBIMENTO PROVISÓRIO	ACEITAÇÃO DEFINITIVA PRANCHA REVISADA
AVALIADOR/CREA: BRUNO SILVEIRA MARTINS – 148751/D	RT DO PROJETO ORIGINAL: KÊNIO ÁVILA FERNANDES AVALIADOR BRUNO SILVEIRA MARTINS – 148751/D

REVISÃO	DESCRIÇÃO	PROJ.	DATA
00	EMISSÃO INICIAL		15/09/17
	REVISÕES		

MINISTÉRIO PÚBLICO DO ESTADO DE MINAS GERAIS
SEDE DAS PROMOTORIAS DE JUSTIÇA DE PATOS DE MINAS

ENDEREÇO: AVENIDA ANGRA DOS REIS, S/N – BAIRRO COPACABANA PATOS DE MINAS – MG	ÁREA TERRENO: 10.293,06m² ÁREA CONSTRUÍDA: 2.860,04m²
PROPRIETÁRIO: PROCURADORIA GERAL DE JUSTIÇA DO ESTADO DE MINAS GERAIS	CNPJ: 20.971.057/0001-45

PROJETO DE ESTRUTURA DE CONCRETO ARMADO

EMPRESA: PRIMEIRA ENGENHARIA LTDA	CNPJ: 14.920.928/0001-07
RESPONSÁVEIS TÉCNICOS: KÊNIO ÁVILA FERNANDES	CREA: MG-70.918/D
CONTEÚDO: DETALHAMENTO DE FUNDAÇÃO	DATA: 15/09/17 ESCALA: INDICADA FOLHA: 05/64