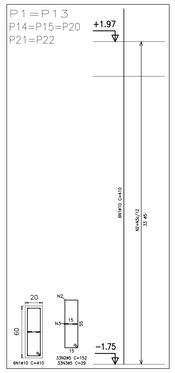
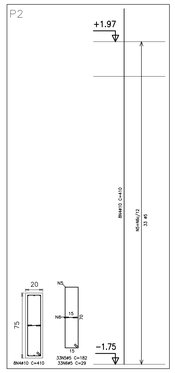
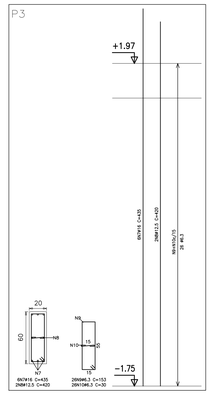
P1 = P13
P14 = P15 = P20
P21 = P22



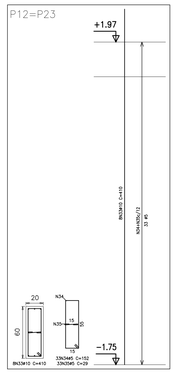
P2



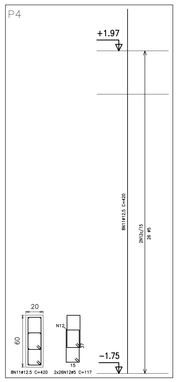
P3



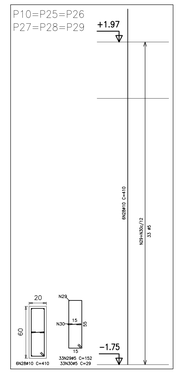
P12 = P23



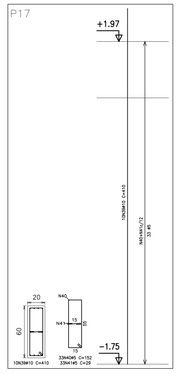
P4



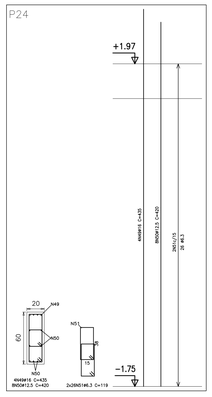
P10 = P25 = P26
P27 = P28 = P29



P17

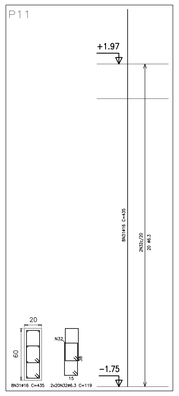


P24

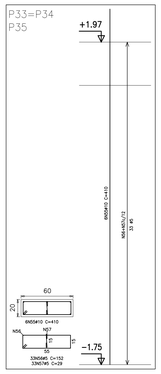


Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
P1=P13=P14 P15=P20=P21=P22	1	ø10	6		410		410	2460	15.4	
	2	ø5	33		152		152	5016		7.9
	3	ø5	33		29		29	957		1.5
							Total+10%	(x7):	16.9	10.3
									118.3	72.1
P2	4	ø10	8		410		410	3280	20.6	
	5	ø5	33		182		182	6006		9.4
	6	ø5	33		29		29	957		1.5
							Total+10%		22.7	12.0
P3	7	ø16	6		435		435	2610	41.0	
	8	ø12.5	2		420		420	840	8.2	
	9	ø6.3	26		153		153	3978	9.8	
	10	ø6.3	26		30		30	780	1.9	
							Total+10%		67.0	
P4	11	ø12.5	8		420		420	3360	33.0	
	12	ø5	52		117		117	6084		9.6
							Total+10%		36.3	10.6
P7	20	ø16	4		595		595	2380	37.3	
	21	ø12.5	6		580		580	3480	34.1	
	22	ø6.3	40		153		153	6120	15.1	
	23	ø6.3	40		30		30	1200	2.9	
							Total+10%		98.3	
P8	24	ø16	12		435		435	5220	82.0	
	25	ø12.5	8		420		420	3360	16.4	
	26	ø6.3	52		111		111	5772	14.3	
	27	ø6.3	52		31		31	1612	4.0	
							Total+10%		128.5	
P10=P25=P26=P27 P28=P29	28	ø10	6		410		410	2460	15.4	
	29	ø5	33		152		152	5016		7.9
	30	ø5	33		29		29	957		1.5
							Total+10%	(x6):	16.9	10.3
									101.4	61.8
P11	31	ø16	8		435		435	3480	54.6	
	32	ø6.3	40		119		119	4760	11.8	
							Total+10%		73.0	
P12=P23	33	ø10	8		410		410	3280	20.6	
	34	ø5	33		152		152	5016		7.9
	35	ø5	33		29		29	957		1.5
							Total+10%	(x2):	22.7	10.3
									45.4	20.6
P16	36	ø16	8		435		435	3480	54.6	
	37	ø6.3	20		153		153	3060	7.6	
	38	ø6.3	20		31		31	620	1.5	
							Total+10%		70.1	
P17	39	ø10	10		410		410	4100	25.7	
	40	ø5	33		152		152	5016		7.9
	41	ø5	33		29		29	957		1.5
							Total+10%		28.3	10.3
P18	42	ø12.5	6		420		420	2520	24.7	
	43	ø10	2		410		410	820	5.1	
	44	ø5	33		153		153	5049		7.9
	45	ø5	33		30		30	990		1.6
							Total+10%		32.8	10.5
P19	46	ø12.5	16		420		420	6720	65.9	
	47	ø5	52		111		111	5772		9.1
	48	ø5	52		30		30	1560		2.4
							Total+10%		72.5	12.7
P24	49	ø16	4		435		435	1740	27.3	
	50	ø12.5	8		420		420	3360	33.0	
	51	ø6.3	52		119		119	6188	15.3	
							Total+10%		83.2	
P30=P31=P32	52	ø10	6		426		426	2556	15.8	
	53	ø5	33		152		152	5016		7.7
	54	ø5	33		29		29	957		1.5
							Total+10%	(x3):	17.4	10.1
									52.2	30.3
P33=P34=P35	55	ø10	6		410		410	2460	15.4	
	56	ø5	33		152		152	5016		7.9
	57	ø5	33		29		29	957		1.5
							Total+10%	(x3):	16.9	10.3
									50.7	41.2
P36=P37	58	ø10	6		460		460	2760	17.0	
	59	ø5	33		152		152	5016		7.9
	60	ø5	33		29		29	957		1.5
							Total+10%	(x2):	18.7	10.3
									37.4	20.6
P5=P6=P9	61	ø10	6		572		572	3432	21.2	
	2	ø5	33		152		152	5016		7.9
	3	ø5	33		29		29	957		1.5
							Total+10%	(x3):	23.3	10.3
									69.9	30.9
								ø5:	0.0	333.6
								ø6.3:	85.7	0.0
								ø10:	531.9	0.0
								ø12.5:	235.8	0.0
								ø16:	345.5	0.0
								Total:	1193.7	333.6

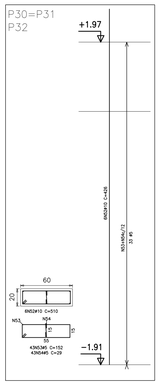
P11



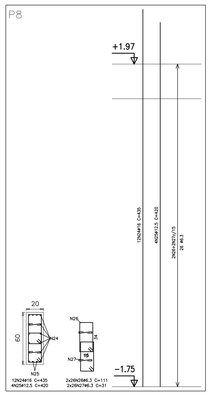
P33 = P34
P35



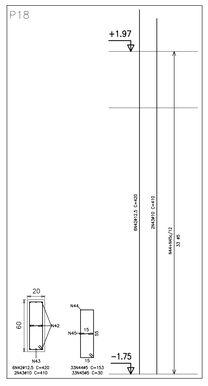
P30 = P31
P32



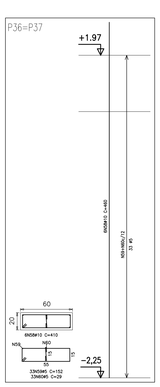
P8



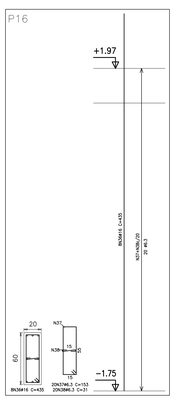
P18



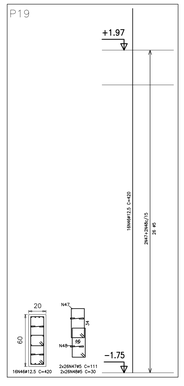
P36=P37



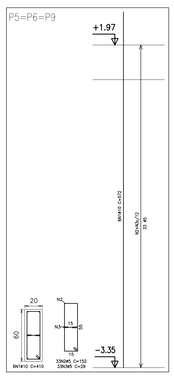
P16



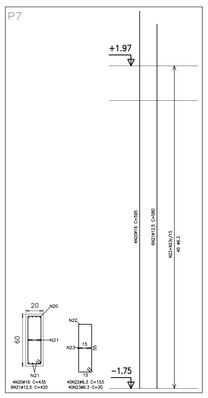
P19



P5=P6=P9



P7



Resumo Aço SUBSOLO Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø6.3	340.9	93	
ø10	776.0	531	
ø12.5	228.0	246	
ø16	206.5	357	1227
CA-60-B ø5	1876.9	334	334
Total			1561

Notas:

Pranchas de referência: 14/64

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	DATA
00	EMISSÃO INICIAL	15/09/17
01	REVISÃO AVALIAÇÃO DE CONFORMIDADE	01/11/17
02	NADA A REVISAR	
03	NADA A REVISAR	
04	REVISÃO CONSTRUTORA	03/07/18
05	NADA A REVISAR	
06	NADA A REVISAR	
07	LICIT RESIDUAL: SOMENTE NUMERAÇÃO SEM REVISÃO PROJETO	05/05/21
	REVISÕES	

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

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

PROJETO DE ESTRUTURA DE CONCRETO ARMADO

EMPRESA:	CNPJ:
PRIMEIRA ENGENHARIA LTDA	14.920.928/0001-07
RESPONSÁVEIS TÉCNICOS: KÊNIO ÁVILA FERNANDES	CREA: MG-70.918/D
CONTEÚDO: Detalhamento pilares Subsolo ao 1° Pavimento	DATA: 15/09/17 ESCALA: INDICADA FOLHA: 64/64