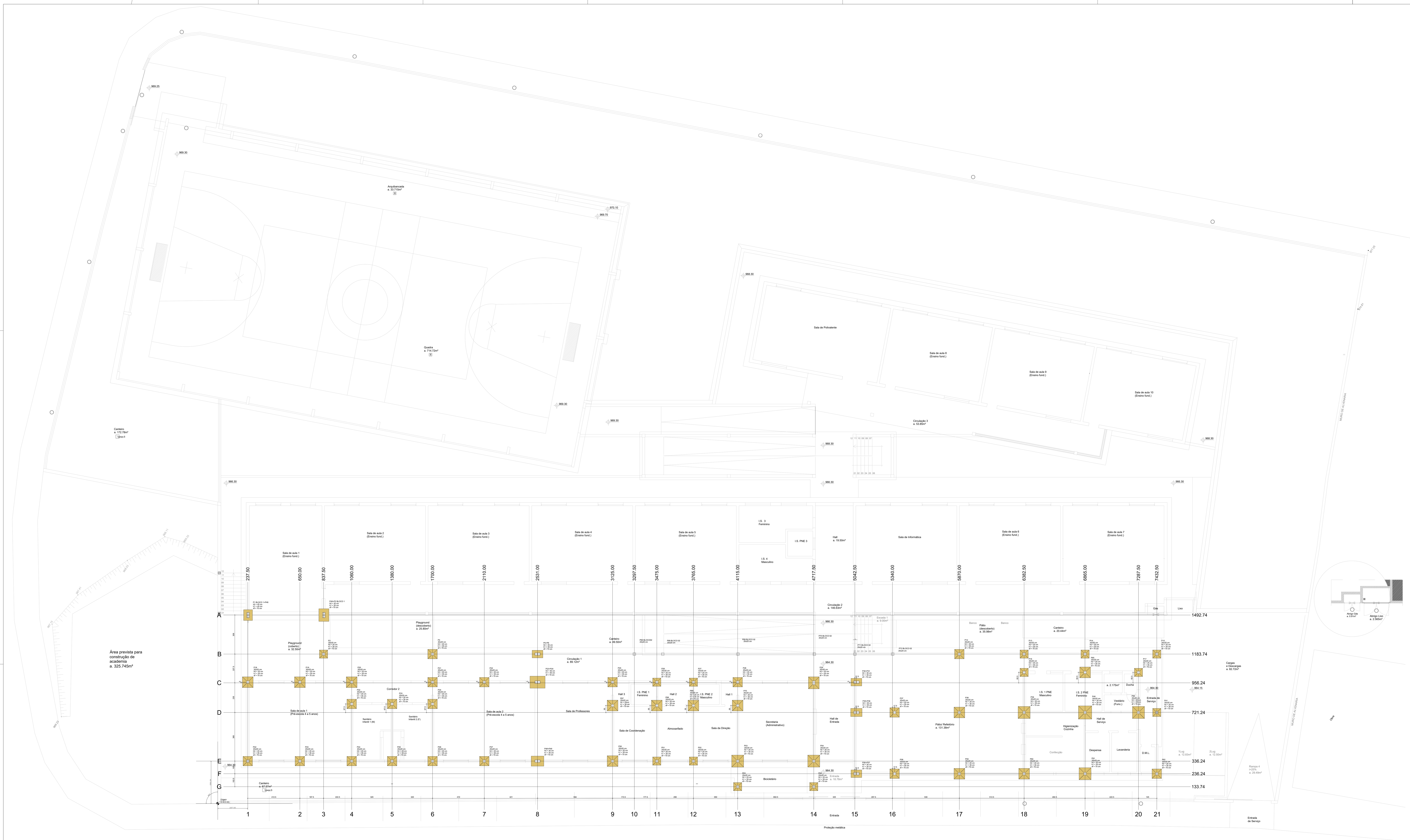


Nome	Seção	X	Y	Posição	Carga Máx.	Carga Mín.	Mx Máximo (kgf.m)		My Máximo (kgf.m)		Fx Máximo (tf)		Fy Máximo (tf)		Fundação Nome	Lado B	Lado H	h0 / ha	h1 / hb	df
	(cm)	(cm)	(cm)		(tf)	(tf)	Positivo	Negativo	Positivo	Negativo	Positivo	Negativo	Positivo	Negativo		(cm)	(cm)	(cm)	(cm)	(cm)
P3	20x20	837.50	1183.74	B-3	6.3	4.4	0	0	0	0	0.0	-0.4	0.4	-0.4	S3	65	65	25	35	70
P4	20x20	1700.00	1183.74	B-6	11.9	10.0	0	0	0	0	0.2	0.0	0.1	-0.2	S4	75	75	20	35	70
P12	20x20	5870.00	1183.74	B-17	9.6	8.5	0	0	0	0	0.2	0.0	0.2	-0.2	S12	75	75	20	35	70
P13	20x20	6382.50	1183.74	B-18	8.7	4.9	0	0	0	0	0.1	0.0	0.5	-0.5	S13	65	65	25	35	70
P14	20x20	6865.00	1183.74	B-19	8.3	5.0	0	0	0	0	0.1	0.0	0.4	-0.3	S14	65	65	25	35	70
P15	20x20	7432.50	1183.74	B-21	4.8	3.7	0	0	0	0	0.2	0.0	0.3	-0.2	S15	65	65	25	35	70
P16	20x20	6382.50	1038.74	C-18	7.1	4.0	0	0	0	0	0.0	-0.3	0.5	-0.5	S16	65	65	25	35	70
P17	20x20	7287.50	1038.74	C-20	7.1	6.1	0	0	0	0	0.5	0.0	0.4	-0.3	S17	65	65	25	35	70
P18	20x20	237.50	961.24	C-1	14.1	12.7	0	0	0	0	0.0	-0.4	0.8	-0.1	S18	85	85	20	35	70
P19	20x20	650.00	961.24	C-2	13.0	12.7	0	0	0	0	0.1	0.0	0.4	0.0	S19	85	85	20	35	70
P20	20x20	1060.00	961.24	C-4	13.9	11.3	0	0	0	0	0.0	-0.3	0.4	-0.5	S20	85	85	20	35	70
P21	20x20	1700.00	961.24	C-6	9.6	7.6	0	0	0	0	0.3	0.0	0.4	-0.3	S21	75	75	20	35	70
P22	20x20	2110.00	961.24	C-7	11.2	10.9	0	0	0	0	0.0	-0.3	0.4	0.0	S22	75	75	20	35	70
P25	20x20	3125.00	961.24	C-9	11.8	9.7	0	0	0	0	0.3	0.0	0.4	-0.5	S25	75	75	20	35	70
P26	20x20	3475.00	961.24	C-11	5.7	3.2	0	0	0	0	0.2	0.0	0.4	-0.5	S26	65	65	25	35	70
P27	20x20	3765.00	961.24	C-12	5.7	3.3	0	0	0	0	0.2	0.0	0.4	-0.5	S27	65	65	25	35	70
P28	20x20	4115.00	961.24	C-13	10.2	8.4	0	0	0	0	0.1	-0.1	0.4	-0.5	S28	75	75	20	35	70
P29	20x30	4717.50	956.24	C-14	15.6	15.0	0	0	0	0	0.4	0.0	0.7	0.0	S29	85	95	20	35	70
P32	20x20	1060.00	788.74	D-4	9.9	7.9	0	0	0	0	0.0	-0.1	0.6	-0.3	S32	75	75	20	35	70
P33	20x20	1380.00	788.74	D-5	10.4	9.4	0	0	0	0	0.1	-0.2	0.6	0.0	S33	75	75	20	35	70
P34	20x20	1700.00	788.74	D-6	12.0	10.2	0	0	0	0	0.2	0.0	0.6	-0.4	S34	75	75	20	35	70
P37	20x20	5357.50	721.24	D-16	10.3	10.0	0	0	0	0	0.0	-0.2	0.2	-0.2	S37	75	75	20	35	70
P38	20x20	5870.00	721.24	D-17	12.6	12.4	0	0	0	0	0.1	0.0	0.1	-0.2	S38	85	85	20	35	70
P39	20x20	6382.50	721.24	D-18	17.6	17.2	0	0	0	0	0.0	-0.6	0.7	-0.1	S39	95	95	20	35	70
P40	20x20	6865.00	721.24	D-19	23.4	23.2	0	0	0	0	0.2	0.0	0.9	0.0	S40	105	105	20	35	70
P41	20x20	7432.50	721.24	D-21	4.8	3.5	0	0	0	0	0.1	-0.2	0.3	-0.3	S41	65	65	25	35	70
P42	20x20	237.50	336.24	E-1	9.0	7.8	0	0	0	0	0.0	-0.4	0.0	-0.9	S42	75	75	20	35	70
P43	20x20	650.00	336.24	E-2	12.1	11.1	0	0	0	0	0.1	-0.1	0.0	-0.5	S43	75	75	20	35	70
P44	20x20	1060.00	336.24	E-4	10.2	9.1	0	0	0	0	0.1	-0.1	0.1	-0.6	S44	75	75	20	35	70
P45	20x20	1380.00	336.24	E-5	9.2	8.2	0	0	0	0	0.0	-0.1	0.2	-0.5	S45	75	75	20	35	70
P46	20x20	1700.00	336.24	E-6	10.1	9.1	0	0	0	0	0.0	-0.3	0.1	-0.4	S46	75	75	20	35	70
P47	20x20	2110.00	336.24	E-7	12.0	11.0	0	0	0	0	0.0	-0.3	0.0	-0.5	S47	75	75	20	35	70
P50	20x20	3125.00	336.24	E-9	13.5	12.1	0	0	0	0	0.4	0.0	0.1	-0.6	S50	85	85	20	35	70
P51	20x20	3475.00	336.24	E-11	8.2	7.4	0	0	0	0	0.1	0.0	0.1	-0.6	S51	65	65	25	35	70
P52	20x20	3765.00	336.24	E-12	8.2	7.2	0	0	0	0	0.2	0.0	0.1	-0.6	S52	65	65	25	35	70
P53	20x20	4115.00	336.24	E-13	16.1	14.1	0	0	0	0	0.0	-0.2	0.3	-0.5	S53	95	95	20	35	70
P54	20x20	4717.50	336.24	E-14	18.9	17.4	0	0	0	0	0.4	0.0	0.5	-0.5	S54	95	95	20	35	70
P58	20x20	5357.50	236.24	F-16	10.2	9.1	0	0	0	0	0.0	-0.3	0.1	-0.3	S58	75	75	20	35	70
P59	20x20	5870.00	236.24	F-17	12.8	11.7	0	0	0	0	0.1	-0.2	0.1	-0.1	S59	85	85	20	35	70
P5+P6		2531.00	1183.74	B-8	8.4	4.6	0	0	0	0	0.0	-0.2	0.5	-0.6	S5-6	85	60	35	35	70
P60	20x20	6382.50	236.24	F-18	13.6	12.3	0	0	0	0	0.2	0.0	0.0	-0.7	S60	85	85	20	35	70
P61	20x20	6865.00	236.24	F-19	17.5	16.1	0	0	0	0	0.0	-0.5	0.0	-1.1	S61	95	95	20	35	70
P62	20x20	7432.50	236.24	F-21	9.8	8.6	0	0	0	0	0.9	0.0	0.2	-0.3	S62	75	75	20	35	70
P63	20x20	4115.00	133.74	G-13	4.6	2.3	0	0	0	0	0.0	-0.3	0.4	-0.5	S63	65	65	25	35	70
P64	20x20	4717.50	133.74	G-14	5.5	3.2	0	0	0	0	0.1	-0.2	0.7	-0.3	S64	65	65	25	35	70
P65	20x20	6865.00	1038.74	C-19	12.6	10.1	0	0	0	0	0.1	-0.2	0.4	-0.5	S65	85	85	20	35	70
P66	20x20	7287.50	721.24	D-20	17.4	16.4	0	0	0	0	0.3	0.0	0.6	-0.2	S66	95	95	20	35	70
P67	20x20	3125.00	776.24	D-9	12.5	11.0	0	0	0	0	0.0	-0.2	0.5	-0.5	S67	85	85	20	35	70
P68	20x20	3475.00	776.24	D-11	12.9	11.2	0	0	0	0	0.3	0.0	0.5	-0.3	S68	85	85	20	35	70
P69	20x20	3765.00	776.24	D-12	12.9	11.2	0	0	0	0	0.1	-0.1	0.5	-0.3	S69	85	85	20	35	70
P70	20x20	4115.00	776.24	D-13	12.8	10.9	0	0	0	0	0.3	0.0	0.5	-0.5	S70	85	85	20	35	70
P23+P24		2531.00	961.24	C-8	23.2	20.3	0	0	0	0	0.0	-0.3	0.8	-0.6	S23-24	120	95	40	40	70
P30+P31		5054.75	961.24	C-15	6.7	3.3	0	0	0	0	0.1	-0.2	0.6	-0.7	S30-31	85	60	35	35	70
P35+P36		5054.75	721.24	D-15	11.6	9.3	0	0	0	0	0.2	0.0	0.8	-0.7	S35-36	90	65	35	35	70
P48+P49		2531.00	336.24	E-8	16.3	15.1	0	0	0	0	0.0	-0.2	0.0	-0.9	S48-49	100	80	35	35	70
P56+P57		5054.75	236.24	F-15	9.1	7.8	0	0	0	0	0.0	0.0	0.3	-0.6	S56-57	85	60	35	35	70
P66 BLOCO02	20x20	3297.50	1183.74	B-10	9.2	7.7	0	0	0	0	0.4	0.0	0.1	-0.4	S66 BLOCO02	75	75	20	35	70
P68 BLOCO 02	20x20	3520.00	1183.74	B-11	1.1	1.0	0	0	0	0	0.0	0.0	0.2	-0.1	S68 BLOCO 02	65	65	25	35	70
P69 BLOCO 02	20x20	4115.00	1183.74	B-13	8.4	6.8	0	0	0	0	0.0	-0.2	0.1	0.0	S69 BLOCO 02	65	65	25	35	70
P70 BLOCO 02	20x20	4720.00	1183.74	B-14	5.1	4.3	0	0	0	0	0.0	0.0	0.3	0.0	S70 BLOCO 02	65	65	25	35	70
P71 BLOCO 02	20x20	5042.50	1183.74	B-15	1.9	1.3	0	0	0	0	0.1	0.0	0.3	-0.2	S71 BLOCO 02	65	65	25	35	70
P72 BLOCO 02	20x20	5340.00	1183.74	B-16	7.6	6.6	0	0	0	0	0.0	-0.2	0.2	0.0	S72 BLOCO 02	65	65	25	35	70
P1+P48 BLOCO 02		237.50	1492.74	A-1	12.9	12.2	0	0	0	0	0.1	0.0	0.5	0.0	S1-48 BLOCO 02	70	90	35	35	70
P2+P49 BLOCO 02		837.50	1492.74	A-3	15.8	13.9	0	0	0	0	0.1	0.0	0.6	-0.1	S2-49 BLOCO 02	80	95	35	35	70

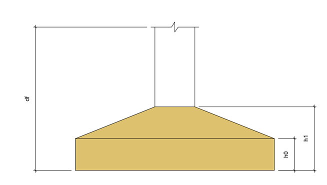
Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.

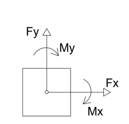
Coordenadas (cm)	Locação no eixo X — Nome
237.50	P1+P48 BLOCO 02, P18, P42
650.00	P19, P43
837.50	P2+P49 BLOCO 02, P3
1060.00	P20, P32, P44
1380.00	P33, P45
1700.00	P4, P21, P34, P46
2110.00	P22, P47
2531.00	P5+P6, P23+P24, P48+P49
3125.00	P25, P67, P50
3297.50	P66 BLOCO02
3475.00	P26, P68, P51
3520.00	P68 BLOCO 02
3765.00	P27, P69, P52
4115.00	P69 BLOCO 02, P28, P70, P53, P63
4717.50	P29, P54, P64
4720.00	P70 BLOCO 02
5042.50	P71 BLOCO 02
5054.75	P30+P31, P35+P36, P56+P57
5340.00	P72 BLOCO 02
5357.50	P37, P58
5870.00	P12, P38, P59
6382.50	P13, P16, P39, P60
6865.00	P14, P65, P40, P61
7287.50	P17, P66
7432.50	P15, P41, P62

Coordenadas (cm)	Locação no eixo Y — Nome
1492.74	P1+P48 BLOCO 02, P2+P49 BLOCO 02
1183.74	P3, P4, P5+P6, P66 BLOCO02, P68 BLOCO 02, P69 BLOCO 02, P70 BLOCO 02, P71 BLOCO 02, P72 BLOCO 02, P12, P13, P14, P15
1038.74	P16, P65, P17
961.24	P18, P19, P20, P21, P22, P23+P24, P25, P26, P27, P28, P30+P31
956.24	P29
788.74	P32, P33, P34
776.24	P67, P68, P69, P70
721.24	P35+P36, P37, P38, P39, P40, P66, P41
336.24	P42, P43, P44, P45, P46, P47, P48+P49, P50, P51, P52, P53, P54
236.24	P56+P57, P58, P59, P60, P61, P62
133.74	P63, P64

Planta de locação

escala 1:50





PENAS	
RED	0,1
YELLOW	0,2
GREEN	0,3
CYAN	0,4
BLUE	0,5
MAGENTA	0,6
WHITE	0,1
OUTROS	0,1

REVISÃO	DATA	DESCRIÇÃO	RESP.
06	21/11/22	REVISÃO CONFORME NOTA TÉCNICA	ATACIZIO

EMPRESA
MARKA ARQUITETURA E ENGENHARIA LTDA
RUA PROFESSOR ABEYLARD, 279, SALA 9
CENTRO, SETE LAGOAS/MG
apoio@markaprojetos.com.br
(31) 3177-4235
www.markaprojetos.com.br

ESPECIALIDADE: ESTRUTURAL
FASE DO PROJETO: EXECUTIVO

EMPREENDIMENTO – OBRA
ESCOLA MUNICIPAL BELVEDERDE
RUA JOSÉ COELHO, RUA CANADÁ E RUA SÉRGIO JACOWLEVSKI
B. SIDERÚRGICO – CONSELHEIRO LAFAIETE/MG

RESPONSÁVEL PROJETO: JOSÉ ATACÍZIO DA FÉ, ENG.CIVIL CREA/MG 87.669/D
COORDENADOR PROJETO: KARINE NARDY
PROJETISTA: JOSÉ ATACÍZIO DA FÉ

ASSUNTO
PROJETO DE ESTRUTURAS DE CONCRETO
PLANTA DE LOCAÇÃO – BLOCO 01

ESCALA: INDICADA
DATA: 21/11/22
Nº FOLHA: 01
ARQUIVO: 064-EST-BLOCO 01-BELVEDERE-R06

FORMATO A0