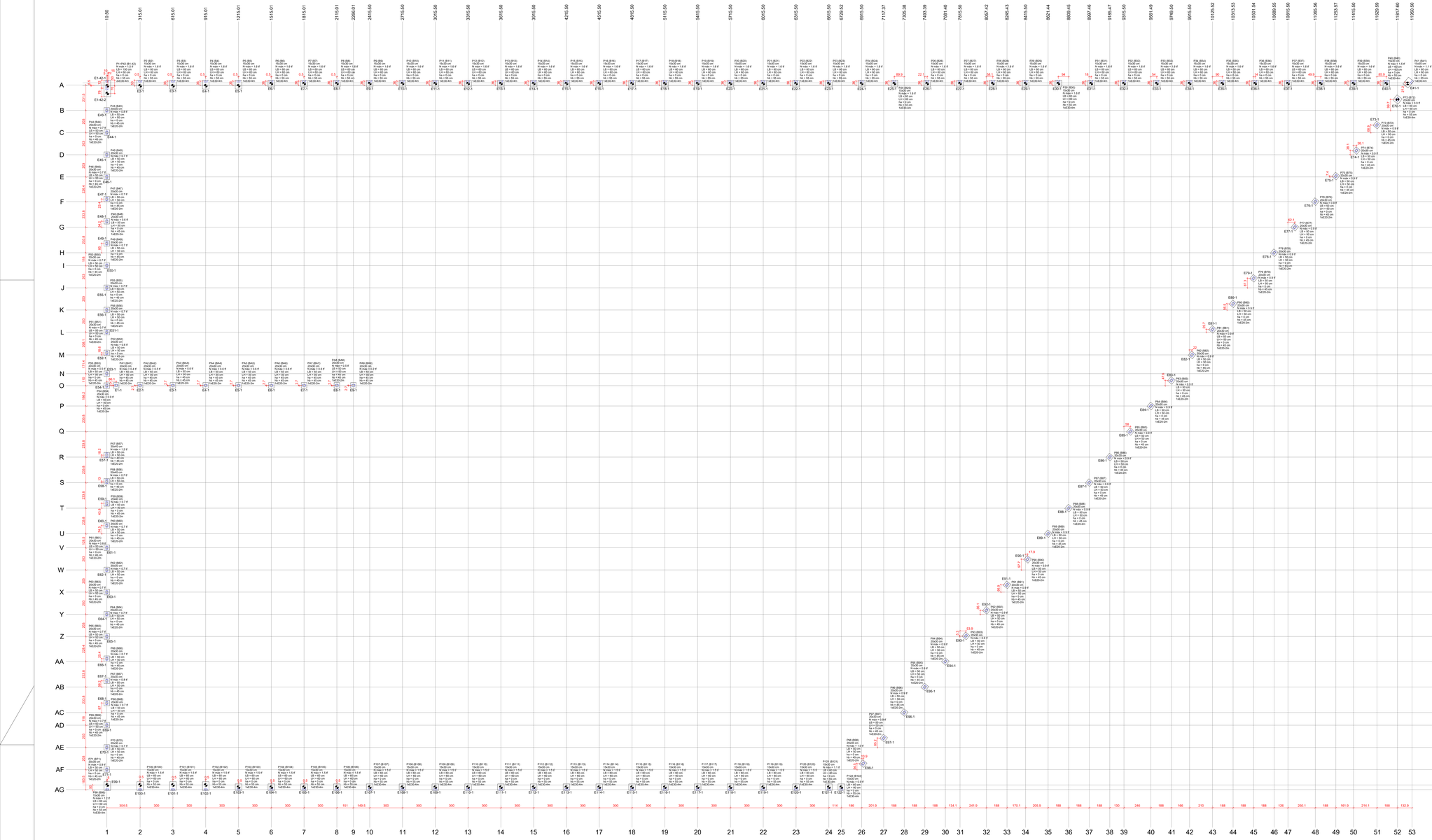
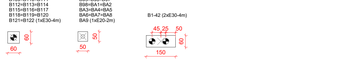


PLANTA DE LOCAÇÃO DAS ESTACAS
ESCALA 1:125



LEGENDA DOS BLOCOS
ESCALA 1:100

Estaca		
Simbologia	Nome	d (cm)	Quantidade
	E20-2m	20.00	64
	E30-4m	30.00	67

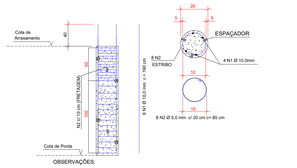
TABELA DE RESUMO DAS ESTACAS TIPO ESCAVADA MECÂNICAMENTE																	
ESTACAS	COMPR. ESTACAS (m)	DIAM. DA ESTACA (cm)	NÚMERO DE ESTACAS	VOL. DO CONC. POR ESTACA (m³/m)	ARM. LONGITUDINAL CA-50A						ARM. TRANSVERSAL CA-50A						QUANT. - VOLUME ESTACAS COMPR. TOT. (m)	VOLUME (m³)
					BITOLA (mm)	PESO (kg/m)	NºF	COMPR. UNIT.(m)	COMPR. TOTAL(m)	BITOLA (mm)	PESO (kg/m)	Nº	COMPR. MÉDIO UNIT.(m)	COMPR. TOTAL(m)		
E20-2m	2.0	30	64	0.070	10.0	N1	4	1.90	486.40	5.0	1x2	15	0.85	435.20	128.00	8.96
E30-4m	4.0	30	67	0.070	10.0	N3	6	3.40	1366.80	5.0	1x6	15	1.05	1055.25	268.00	18.76
TOTAL:			131					TOTAL:	1853.20				TOTAL:	1490.45	396.00	27.72

RESUMO DO AÇO CA-50A				
ESTACA ESCAVADA MECÂNICAMENTE				
AÇO	Ø (mm)	COMPR. TOTAL (m)	PESO UNIT. (kg/m)	PESO TOTAL (kg)
CA-50A	10.0	1854.00	0.617	1143.92
CA-60	5.0	1491.00	0.157	234.28
			TOTAL:	1378.61

ESPECIFICAÇÃO DO CONCRETO DAS ESTACAS ESCAVADAS MECÂNICAMENTE

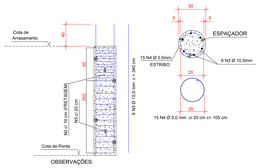
1. **SLUMP: 16 ± 2 cm DURANTE TODA A CONCRETAGEM. PREFERENCIALMENTE 15cm.**
2. **Fck ≥ 25 MPa**
3. **NÃO PODERÁ PASSAR PELA PENEIRA Ø 200 = 600 Kg/m SENDO 400 Kg DE CIMENTO(kf = 22MENTO CPII).**
4. **AGREGADOS: AREIA NATURAL E PEDRISCO (NÃO USAR PÓ DE PEDRA).**
5. **ADITIVO: USAR 0,4 A 0,8% (SEM O USO DE SUPER-PLASTIFICANTES).**
6. **EXSUDAÇÃO 0 LITS.**
7. **TEOR DE AR INCORPORADO 1.5%.**
8. **INICIO DE PEGA 2.5 h.**

DETALHE TÍPICO DAS ESTACAS TIPO ESCAVADA Ø 20 cm
E20-2m
S/ESCALA



OBSERVAÇÕES:

DETALHE TÍPICO DAS ESTACAS TIPO ESCAVADA Ø 30 cm
E30-4m
S/ESCALA



OBSERVAÇÕES:

LOCAÇÃO DAS ESTACAS									
Bloco	Nome	Tipo	Coordenada X (cm)	Coordenada Y (cm)	Carga máx. tf	Momento máx. kgf.m	Momento mín. kgf.m	Força horiz. máx. tf	Força horiz. mín. tf	CA
B2	E2-1	E30-4m	315.50	6492.00	2.04	2.04	235.55	9.49	0.15	0.01	-40
B3	E3-1	E30-4m	615.50	6492.00	2.03	2.03	256.52	1.59	0.15	0.00	-40
B4	E4-1	E30-4m	915.50	6492.00	2.03	2.03	264.29	1.53	0.15	0.00	-40
B5	E5-1	E30-4m	1215.50	6492.00	2.03	2.03	253.40	1.64	0.15	0.00	-40
B6	E6-1	E30-4m	1515.50	6492.00	2.03	2.03	253.38	1.85	0.15	0.00	-40
B7	E7-1	E30-4m	1815.50	6492.00	2.03	2.03	253.40	2.60	0.15	0.00	-40
B8	E8-1	E30-4m	2115.50	6492.00	2.03	2.03	253.41	2.59	0.15	0.00	-40
B9	E9-1	E30-4m	2415.50	6492.00	2.03	2.03	253.41	2.60	0.15	0.00	-40
B10	E10-1	E30-4m	2715.50	6492.00	2.03	2.03	253.40	2.84	0.15	0.00	-40
B11	E11-1	E30-4m	3015.50	6492.00	2.03	2.03	253.40	3.07	0.15	0.01	-40
B12	E12-1	E30-4m	3315.50	6492.00	2.03	2.03	253.40	3.29	0.15	0.01	-40
B13	E13-1	E30-4m	3615.50	6492.00	2.03	2.03	253.40	3.50	0.15	0.01	-40
B14	E14-1	E30-4m	3915.50	6492.00	2.03	2.03	253.40	3.69	0.15	0.01	-40
B15	E15-1	E30-4m	4215.50	6492.00	2.03	2.03	253.40	3.87	0.15	0.01	-40
B16	E16-1	E30-4m	4515.50	6492.00	2.03	2.03	253.40	4.04	0.15	0.01	-40
B17	E17-1	E30-4m	4815.50	6492.00	2.03	2.03	253.40	4.21	0.15	0.01	-40
B18	E18-1	E30-4m	5115.50	6492.00	2.03	2.03	253.40	4.37	0.15	0.01	-40
B19	E19-1	E30-4m	5415.50	6492.00	2.03	2.03	253.40	4.52	0.15	0.01	-40
B20	E20-1	E30-4m	5715.50	6492.00	2.03	2.03	253.41	4.67	0.15	0.01	-40
B21	E21-1	E30-4m	6015.50	6492.00	2.03	2.03	253.41	4.82	0.15	0.01	-40
B22	E22-1	E30-4m	6315.50	6492.00	2.03	2.03	253.41	4.96	0.15	0.01	-40
B23	E23-1	E30-4m	6615.50	6492.00	2.03	2.03	253.41	4.91	0.15	0.01	-40
B24	E24-1	E30-4m	6915.50	6492.00	2.03	2.03	253.42	4.77	0.15	0.01	-40
B25	E25-1	E30-4m	7215.50	6492.00	2.03	2.03	253.43	4.62	0.15	0.01	-40
B26	E26-1	E30-4m	7515.50	6492.00	2.03	2.03	253.43	4.46	0.15	0.01	-40
B27	E27-1	E30-4m	7815.50	6492.00	2.03	2.03	253.44	4.33	0.15	0.01	-40
B28	E28-1	E30-4m	8115.50	6492.00	2.03	2.03	253.45	4.17	0.15	0.01	-40
B29	E29-1	E30-4m	8415.50	6492.00	2.03	2.03	253.46	4.00	0.15	0.01	-40
B30	E30-1	E30-4m	8715.50	6492.00	2.03	2.03	253.47	3.83	0.15	0.01	-40
B31	E31-1	E30-4m	9015.50	6492.00	2.03	2.03	253.49	3.65	0.15	0.01	-40
B32	E32-1	E30-4m	9315.50	6492.00	2.03	2.03	253.51	3.46	0.15	0.01	-40
B33	E33-1	E30-4m	9615.50	6492.00	2.03	2.03	253.54	3.25	0.15	0.01	-40
B34	E34-1	E30-4m	9915.50	6492.00	2.03	2.03	253.57	3.04	0.15	0.01	-40
B35	E35-1	E30-4m	10215.50	6492.00	2.03	2.03	253.60	2.80	0.15	0.00	-40
B36	E36-1	E30-4m	10515.50	6492.00	2.03	2.03	253.60	2.56	0.15	0.00	-40
B37	E37-1	E30-4m	10815.50	6492.00	2.03	2.03	253.75	2.30	0.15	0.00	-40
B38	E38-1	E30-4m	11115.50	6492.00	2.03	2.03	255.63	2.05	0.15	0.00	-40
B39	E39-1	E30-4m	11415.50	6492.00	2.03	2.03	258.16	5.09	0.15	0.01	-40
B40	E40-1	E30-4m	11715.50	6492.00	1.93	1.91	215.45	3.91	0.13	0.00	-40
B41	E41-1	E30-4m	11965.50	6483.22	1.55	1.47	114.46	24.95	0.11	0.03	-40
B43	E43-1	E20-2m	10.50	6224.50	0.98	0.98	40.67	7.79	0.06	0.01	-30
B44	E44-1	E20-2m	10.50	5915.50	0.94	0.94	29.52	0.36	0.04	0.00	-30
B45	E45-1	E20-2m	10.50	5818.50	0.95	0.94	29.52	0.35	0.04	0.00	-30
B46	E46-1	E20-2m	10.50	5615.50	0.94	0.93	25.91	0.72	0.04	0.00	-30
B47	E47-1	E20-2m	10.50	5412.50	0.88	0.87	46.12	2.05	0.10	0.00	20
B48	E48-1	E20-2m	10.50	5209.50	0.87	0.86	42.38	3.17	0.09	0.01	20
B49	E49-1	E20-2m	10.50	5006.50	0.89	0.88	46.12	3.16	0.10	0.01	20
B50	E50-1	E20-2m	10.50	4803.50	0.89	0.88	44.89	0.68	0.12	0.01	20
B51	E51-1	E20-2m	10.50	4194.50	0.94	0.87	65.62	32.40	0.09	0.04	70
B53	E53-1	E20-2m	10.51	4005.00	0.80	0.79	173.43	0.72	0.10	0.00	70
B54	E54-1	E20-2m	10.50	3986.41	1.17	1.09	206.99	141.73	0.80	0.79	70
B55	E55-1	E20-2m	10.50	3815.00	0.91	0.90	48.19	9.01	0.13	0.02	60
B56	E56-1	E20-2m	10.50	4397.50	0.93	0.86	86.98	9.67	0.40	0.08	60
B57	E57-1	E20-2m	10.50	3069.50	1.44	1.40	406.27	232.47	1.12	0.80	85
B58	E58-1	E20-2m	10.50	2830.50	0.96	0.95	146.07	2.29	0.25	0.00	120
B59	E59-1	E20-2m	10.50	2627.50	0.89	0.88	145.84	6.83	0.29	0.01	120
B60	E60-1	E20-2m	10.50	2424.50	0.89	0.87	38.95	2.60	0.07	0.01	120
B61	E61-1	E20-2m	10.50	2015.50	0.94	0.87	54.68	2.45	0.07	0.01	120
B62	E62-1	E20-2m	10.50	1812.50	0.94	0.94	30.46	0.39	0.06	0.00	120
B63	E63-1	E20-2m	10.50	1612.50	0.87	0.87	52.94	5.33	0.11	0.01	170
B65	E65-1	E20-2m	10.50	1408.50	0.89	0.88	68.95	9.91	0.15	0.02	170
B66	E66-1	E20-2m	10.50	1206.50	0.90	0.89	48.52	10.19	0.12	0.00	170
B67	E67-1	E20-2m	10.50	1003.50	0.98	0.97	47.05	3.58	0.08	0.01	170
B68	E68-1	E20-2m	10.49	800.50	0.94	0.94	42.03	0.61	0.07	0.00	170
B69	E69-1	E20-2m	10.50	597.50	0.94	0.93	34.69	1.29	0.06	0.00	170
B70	E70-1	E20-2m	10.50	394.50	0.96	0.93	34.69	1.29	0.08	0.00	170
B71	E71-1	E20-2m	10.50	191.49	1.09	2.81	54.69	1.07	0.10	0.00	170
B72	E72-1	E30-4m	11917.60	6324.20	1.30	1.23	102.44	11.99	0.15	0.03	200
B73	E73-1	E30-4m	11629.59	6090.42	1.12	1.11	67.07	5.66	0.13	0.01	210
B74	E74-1	E30-4m	11441.58	5856.64	1.11	1.11	52.64	2.21	0.10	0.00	210
B75	E75-1	E20-2m	11253.57	5622.86	1.11	1.11	46.65	1.61	0.09	0.00	210
B76	E76-1	E20-2m	11065.56	5389.08	1.11	1.11	43.77	1.89	0.08	0.00	210
B77	E77-1	E20-2m	10877.55	5155.30	1.11	1.11	42.24	2.03	0.08	0.00	210
B78	E78-1	E20-2m	10689.55	4921.52	1.11	1.11	41.68	2.21	0.08	0.00	210
B79	E79-1	E20-2m	10501.54	4687.75	1.11	1.11	41.08	2.23	0.07	0.00	210
B80	E80-1	E20-2m	10313.53	4453.97	1.11	1.11	40.88	2.23	0.07	0.00	210
B81	E81-1	E20-2m	10125.52	4220.19	1.11	1.11	40.79	2.25	0.07	0.00	210
B82	E82-1	E20-2m	9937.51	3986.41	1.11	1.11	40.77	2.26	0.07	0.00	210
B83	E83-1	E20-2m	9749.50	3752.63	1.11	1.11	40.67	2.27	0.07	0.00	210
B84	E84-1	E20-2m	9561.49	3518.85	1.11	1.11	40.66	2.27	0.07	0.00	210
B85	E85-1	E20-2m	9373.48	3285.07	1.11	1.11	40.65	2.27	0.07	0.00	210
B86	E86-1	E20-2m	9185.47	3051.29	1.11	1.11	40.64	2.27	0.07	0.00	210
B87	E87-1	E20-2m	8997.46	2817.52	1.11	1.11	40.65	2.26	0.07	0.00	210
B88	E88-1	E20-2m	8809.45	2583.74	1.11	1.11	40.65	2.26	0.07	0.00	210
B89	E89-1	E20-2m	8621.44	2349.96	1.11	1.11	40.66	2.26	0.07	0.00	210
B90	E90-1	E20-2m	8433.43	2116.18	1.11	1.11	40.67	2.25	0.07	0.00	210
B91	E91-1	E20-2m	8245.43	1882.40	1.11	1.11	40.71	2.21	0.07	0.00	210
B92	E92-1	E20-2m	8057.42	1648.62	1.11	1.11	40.76	2.18	0.07	0.00	210
B93	E93-1	E20-2m	7869.41	1414.84	1.11	1.11	40.86	2.10	0.07	0.00	210
B94	E94-1	E20-2m	7681.40	1181.06	1.11	1.11	41.06	1.96	0.07	0.00	210
B95	E95-1	E20-2m	7493.39	947.29	1.11	1.11	41.39	1.79	0.07	0.00	210
B96	E96-1	E20-2m	7305.38	713.51	1.11	1.11	41.90	1.57	0.07	0.00	210
B97	E97-1	E20-2m	7117.37	479.73	1.11	1.09	39.09	1.79	0.07	0.00	210
B98	E98-1	E20-2m	6929.36	245.95	1.23	1.09	102.84	20.62	0.24	0.03	210
B99	E99-1	E30-4m	15.50	8.00	1.63	1.37	204.88	79.81	0.30	0.08	280
B100	E100-1	E30-4m	315.50	8.00	1.88	1.88	301.64	11.06	0.16	0.02	280
B101	E101-1	E30-4m	615.50	8.00	1.88	1.88	306.98	6.91	0.16	0.01	280
B102	E102-1	E30-4m	915.50	8.00	1.88	1.88	306.41	5.79	0.16	0.00	280
B103	E103-1	E30-4m	1215.50	8.00	1.88	1.88	305.19	5.69	0.16	0.00	280
B104	E104-1	E30-4m	1515.50	8.00	1.88	1.88	306.18	5.08	0.16	0.00	280
B105	E105-1	E30-4m	1815.50	8.00	1.88	1.88	306.17	4.56	0.16	0.00	280
B106	E106-1	E30-4m	2115.50	8.00	1.88	1.88	306.17	4.02	0.16	0.00	280
B107	E107-1	E30-4m	2415.50	8.00	1.88	1.88	306.18	3.56	0.16	0.00	280
B108	E108-1	E30-4m	2715.50	8.00	1.88	1.88	306.16	3.14	0.16	0.01	280
B109	E109-1	E30-4m	3015.50	8.00	1.88	1.88	306.16	2.76	0.16	0.00	280
B110	E110-1	E30-4m	3315.50	8.00	1.88	1.88	306.14	2.44	0.16	0.00	280
B111	E111-1	E30-4m	3615.50	8.00	1.88	1.88	306.05	2.22	0.16	0.00	280
B112	E112-1	E30-4m	3915.50	8.00	1.88	1.88	306.03	2.01	0.16	0.01	280
B113	E113-1	E30-4m	4215.50	8.00	1.88	1.88	306.03	1.85	0.16	0.01	280
B114	E114-1	E30-4m	4515.50	8.00	1.88	1.88	306.03	1.77	0.16	0.01	280
B115	E115-1	E30-4m	4815.50	8.00	1.88	1.88	306.03	1.77	0.16	0.01	280
B116	E116-1	E30-4m	5115.50	8.00	1.88	1.88	306.03	1.86	0.16	0.01	280
B117	E117-1	E30-4m	5415.50	8.00	1.88	1.88	306.02	2.02	0.16	0.01	280
B118	E118-1	E30-4m	5715.50	8.00	1.88	1.88	306.06	2.24	0.16	0.00	280
B119	E119-1	E30-4m	6015.50	8.00	1.88	1.88	306.44	2.51	0.16	0.00	280
B120	E120-1	E30-4m	6315.50	8.00	1.88	1.88	306.56	8.27	0.16	0.02	280
B121	E121-1	E30-4m	6615.50	8.00	1.88	1.53	301.79	17.06	0.27	0.16	280
B122	E122-1	E30-4m	6915.50	8.00	1.84	1.19	226.52	48.12	0.34	0.04	280
B1-42	E1-42-1	B30-4m	15.50	6601.00	1.44	1.27	318.85	16.12	0.12	0.04	-40
	E1-42-2		15.50	6411.00	1.37	1.19	318.85	16.12	0.12	0.04	
BA1	E1-1	E20-2m	36.61	3707.74	0.61	0.56	30.04	9.09	0.58	0.04	55
BA2	E2-1	E20-2m	315.01	3707.74	0.73	0.73	32.33	20.27	0.09	0.08	55
BA3	E3-1	E20-2m	615.01	3707.74	0.79	0.79	23.80	7.30	0.03	0.01	55
BA4	E4-1	E20-2m	915.01	3707.74	0.78	0.78	21.24	0.46	0.03	0.00	55
BA5	E5-1	E20-2m	1215.01	3707.74	0.78	0.78	21.22	0.45	0.03	0.00	55
BA6	E6-1	E20-2m	1515.01	3707.74	0.78	0.78	21.23	0.46	0.03	0.00	55
BA7	E7-1	E20-2m	1815.01	3707.74	0.79	0.79	21.41	10.88	0.05	0.04	55
BA8	E8-1	E20-2m	2115.01	3707.74	0.70	0.70	29.27	16.91	0.10	0.09	55
BA9	E9-1	E20-2m	2266.01	3707.74	0.42	0.42	30.01	16.81	0.03	0.01	55

Cx 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.

REV.	DESCRIÇÃO DE MODIFICAÇÕES	DATA
00	EMISSÃO INICIAL	31/10/2022

314-SEEDF-CEPI PARANOÁ PARQUE-EST-030-R00.DWG

CINNANTI Arquitetura & Engenharia
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SETOR:	PARANOÁ PARQUE - PARANOÁ - DF
ENDEREÇO:	QUADRA 01, CJ 01, AE 02 - PARANOÁ PARQUE - PARANOÁ - DF
PROPRIETÁRIO:	GDF - SECRETARIA DE ESTADO DE EDUCAÇÃO DO DISTRITO FEDERAL
AUTOR DO PROJETO:	ENG. CIVIL: DALMO BLANCO CINNANTI
RESP. TÉCNICO:	

PROPRIETÁRIO: GDF - SECRETARIA DE ESTADO DE EDUCAÇÃO

AUTOR DO PROJETO: ENG. CIVIL: DALMO BLANCO CINNANTI CREA: 7862D-DF

RESP. TÉCNICO:

VISTO ADM REGIONAL

VISTO SEEDF

VISTO

GDF - SECRETARIA DE ESTADO DE EDUCAÇÃO

EST

CENTRO DE ENSINO PRIMEIRA INFÂNCIA - PARANOÁ PARQUE

ESTRUTURA DE CONCRETO ARMADO - MURO E GRADIL

PLANTA DE LOCAÇÃO DAS ESTACAS

030

Data:	Escala:	Revisão:
31/10/2022	INDICADA	00