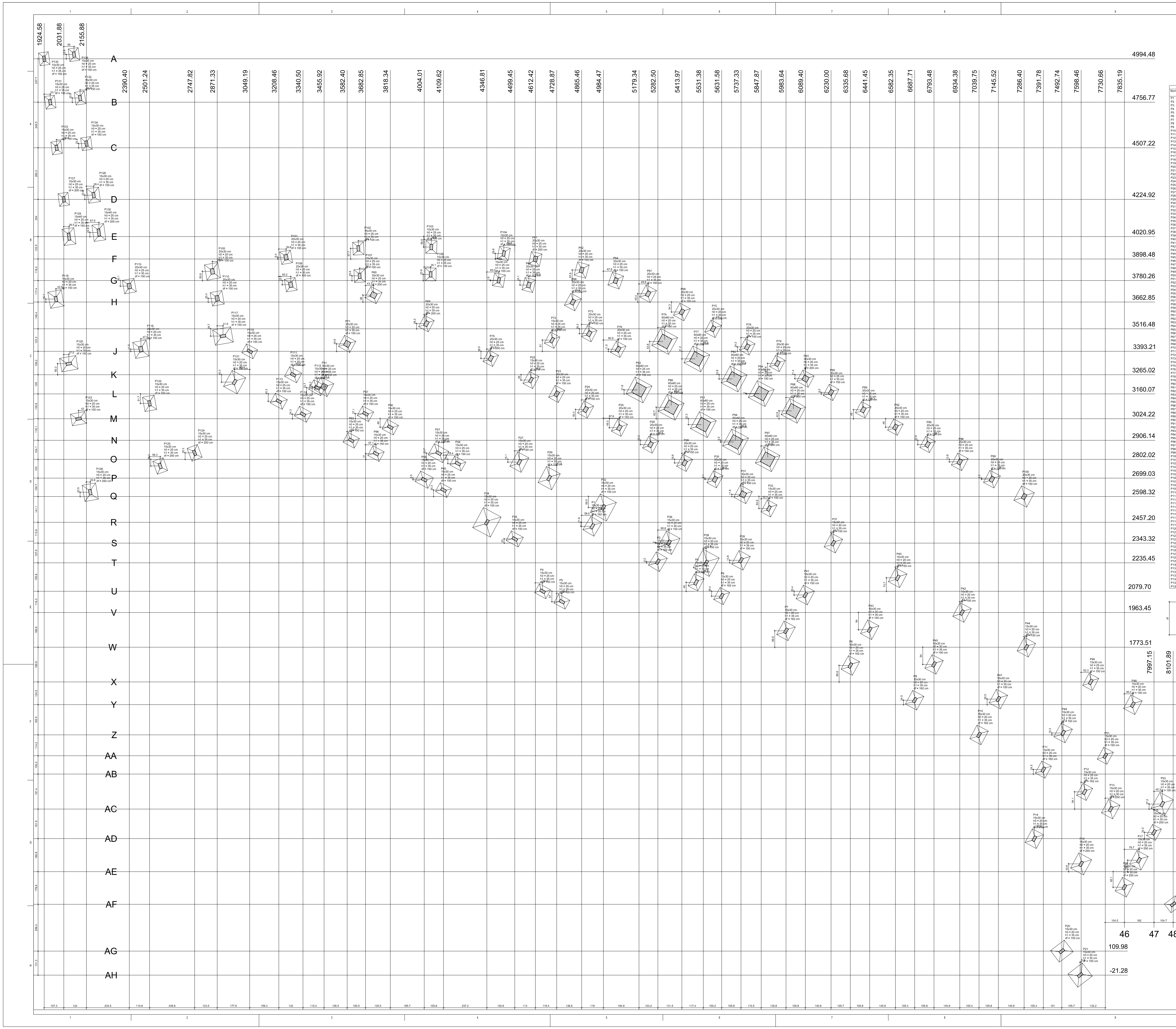
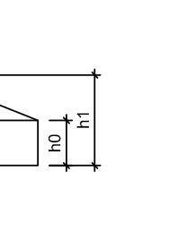


Pilar										Fundação				
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Mx (kgf.m)	My (kgf.m)	Fx (tf)	Fy (tf)	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	df (cm)
P1	15x30	4924.01	2435.38	15.8	11.7	600	200	0.2	0.5	70	85	20	35	162
P2	15x30	5282.50	2241.62	13.9	10.6	300	300	0.4	0.2	70	85	20	35	162
P3	15x30	5491.64	2128.65	6.7	5.1	300	200	0.2	0.2	60	75	25	35	162
P4	15x30	4651.63	2079.70	5.2	3.9	100	200	0.3	0.2	55	70	25	35	100
P5	15x30	4757.21	2022.72	2.8	2.1	100	200	0.3	0.2	55	70	25	35	100
P6	15x30	5631.58	2053.30	12.4	9.5	400	100	0.1	0.4	60	75	25	35	162
P7	15x30	5983.64	1863.36	16.4	12.6	400	200	0.2	0.3	70	85	20	35	162
P8	15x30	6335.68	1673.44	15.9	12.2	400	200	0.2	0.3	70	85	20	35	162
P9	15x30	6687.71	1483.51	15.8	12.2	400	200	0.2	0.3	70	85	20	35	162
P10	15x30	7039.75	1293.59	16.3	12.5	400	300	0.3	0.3	70	85	20	35	162
P11	15x30	7391.78	1103.66	13.8	10.8	200	200	0.2	0.2	60	75	25	35	162
P12	15x30	7617.51	981.87	9.5	6.8	200	200	0.3	0.2	60	75	25	35	162
P13	15x30	7760.41	887.74	18.2	10.5	600	200	0.3	1.1	70	85	20	35	250
P14	15x30	7342.34	725.79	8.5	6.3	700	500	1.1	1.5	70	85	20	35	250
P15	15x30	7997.15	760.01	10.1	6.3	600	200	0.3	1.1	55	70	25	35	250
P16	15x30	7598.46	587.60	20.8	14.5	600	200	0.3	1.1	80	95	20	35	250
P17	15x30	7914.85	607.54	11.5	8.2	600	200	0.3	1.0	70	85	20	35	250
P18	15x30	7835.19	459.87	14.3	7.7	600	200	0.3	1.1	70	85	20	35	250
P19	15x30	8101.89	366.39	4.9	3.6	100	100	0.1	0.1	60	75	25	35	162
P20	15x30	7492.74	109.98	4.5	3.2	500	400	1.4	1.8	80	95	20	35	100
P21	15x30	7592.65	-21.28	5.0	3.6	800	600	1.4	1.8	90	100	20	35	100
P22	15x30	4588.19	3236.00	6.3	5.1	300	200	0.2	0.3	60	75	25	35	150
P23	20x30	4728.87	3160.07	9.1	7.6	600	300	0.3	0.5	60	75	25	35	150
P24	20x30	4887.26	3074.60	9.0	7.7	500	300	0.3	0.5	60	75	25	35	150
P25	20x30	5072.04	2974.90	8.7	7.5	400	200	0.2	0.3	60	75	25	35	150
P26	20x30	5242.70	2882.83	8.4	7.3	300	200	0.2	0.3	60	75	25	35	150
P27	15x30	4524.69	2786.89	2.8	1.8	600	300	0.5	1.2	70	90	20	35	150
P28	20x30	5428.83	2782.42	7.9	6.9	300	200	0.2	0.3	60	75	25	35	150
P29	15x30	4687.50	2699.03	6.7	4.7	1100	500	0.9	2.1	85	100	20	35	150
P30	20x30	5594.73	2692.89	7.3	6.4	500	200	0.2	0.4	60	75	25	35	150
P31	30x30	5748.50	2609.92	10.5	7.4	1000	600	0.6	1.3	75	75	25	35	150
P32	15x30	4984.47	2538.81	1.6	0.7	700	400	0.4	0.7	100	115	20	35	150
P33	15x30	5890.31	2533.42	6.5	4.4	700	200	0.4	1.4	60	75	25	35	150
P34	15x30	4346.81	2457.20	3.0	2.1	1200	700	1.0	1.7	110	125	20	35	150
P35	15x30	4499.45	2366.31	6.7	4.9	700	500	0.8	1.2	60	75	25	35	150
P36	15x30	5343.15	2345.31	2.2	1.1	700	200	0.2	0.8	85	100	20	35	150
P37	15x30	6242.65	2343.32	8.0	5.4	700	400	0.8	1.4	70	85	20	35	150
P38	15x30	5546.97	2235.45	1.9	1.2	900	500	0.6	1.2	100	115	20	35	150
P39	15x30	5737.33	2249.28	10.8	6.9	900	600	0.9	1.1	70	85	20	35	150
P40	15x30	6594.68	2153.38	7.8	5.3	700	300	0.7	1.4	70	85	20	35	150
P41	15x30	6089.40	2059.34	12.7	7.7	900	400	0.6	1.3	70	85	20	35	150
P42	15x30	6946.71	1963.45	7.8	5.3	700	400	0.7	1.4	70	85	20	35	150
P43	15x30	6441.45	1869.40	12.4	7.5	900	400	0.6	1.2	70	85	20	35	150
P44	15x30	7298.74	1773.51	8.0	5.4	800	300	0.7	1.5	70	85	20	35	150
P45	15x30	6793.48	1679.48	12.4	7.6	800	400	0.6	1.2	70	85	20	35	150
P46	15x30	7650.77	1583.58	6.4	4.3	600	400	0.9	1.0	60	75	25	35	150
P47	15x30	7145.52	1489.55	12.8	7.8	800	400	0.5	1.1	70	85	20	35	150
P48	15x30	7881.55	1459.06	6.3	4.3	700	200	0.4	1.4	70	85	20	35	150
P49	15x30	7499.87	1303.93	10.8	6.8	700	200	0.2	1.0	70	85	20	35	150
P50	15x30	8233.58	1269.12	10.0	6.6	1300	600	1.2	2.6	90	105	20	35	150
P51	15x30	7730.66	1179.41	11.4	7.3	500	400	0.6	0.7	60	75	25	35	150
P52	15x30	8585.61	1079.18	8.7	5.6	1000	600	1.2	1.9	85	100	20	35	150
P53	15x30	8042.47	914.95	15.5	9.4	900	900	1.7	1.6	85	100	20	35	150
P54	20x30	8833.80	933.91	1.2	0.7	300	200	0.3	0.3	65	75	25	35	150
P55	15x30	8642.39	787.27	8.6	5.5	800	800	1.5	1.5	85	100	20	35	150
P56	15x30	8324.12	544.97	9.9	6.4	1500	900	1.7	2.9	100	115	20	35	150
P57	15x30	4082.38	2835.77	1.3	0.4	300	300	0.5	0.4	70	90	20	35	150
P58	15x30	4187.99	2778.84	5.1	3.7	400	100	0.3	0.7	55	70	25	35	150
P59	15x30	4004.01	2690.56	1.5	0.7	300	200	0.3	0.4	65	80	20	35	150
P60	15x30	4109.62	2633.58	5.4	3.7	300	300	0.5	0.4	55	70	25	35	150
P61	20x30	4612.42	3898.48	7.5	0.1	100	100	0.1	0.1	60	70	25	35	200
P62	20x30	4865.46	3838.05	10.7	0.4	200	100	0.1	0.2	65	75	25	35	150
P63	20x30	4576.56	3756.13	3.0	1.5	200	100	0.1	0.1	60	70	25	35	162
P64	20x30	5052.10	3780.26	11.5	0.4	400	200	0.2	0.6	65	75	25	35	150
P65	30x30	3726.55	3700.88	2.6	2.0	500	200	0.2	0.6	70	70	25	35	200
P66	20x30	4817.09	3662.85	3.2	2.2	200	300	0.6	0.3	65	75	25	35	150
P67	20x30	5229.14	3708.28	11.3	0.4	500	200	0.4	0.9	65	75	25	35	150
P68	20x30	5413.97	3608.56	10.9	0.4	200	100	0.2	0.4	65	75	25	35	150
P69	20x30	4015.99	3544.70	3.1	2.8	400	200	0.2	0.2	60	70	25	35	200
P70	20x30	5584.61	3516.48	10.8	0.4	200	100	0.3	0.5	65	75	25	35	150
P71	30x30	3582.40	3433.76	2.5	2.1	300	200	0.2	0.3	70	70	25	35	150
P72	15x30	4703.95	3454.23	4.5	3.2	300	200	0.3	0.6	60	70	25	35	150
P73	20x30	4906.94	3490.14	8.7	5.9	300	200	0.2	0.4	60	70	25	35	150
P74	60x60	5319.81	3446.99	20.5	16.5	1900	700	1.1	1.5	105	105	25	35	150
P75	20x30	4368.12	3354.71	2.9	2.6	200	200	0.1	0.2	60	70	25	35	250
P76	20x30	5065.34	3404.66	8.7	5.8	200	100	0.1	0.2	60	70	25	35	150
P77	60x60	5495.83	3352.02	19.4	15.5	1600	1400	1.1	1.6	105	105	25	35	150
P78	20x30	5771.45	3417.41	9.9	0.2	200	200	0.3	0.5	60	70	25	35	150
P79	20x30	5936.63	3326.57	8.9	0.2	200	200	0.3	0.5	60	70	25	35	150
P80	60x60	5699.43	3242.17	18.9	15.3	1700	1100	1.0	1.4	105	105	25	35	150
P81	30x30	3455.92	3199.35	1.3	0.8	400	200	0.2	0.5	80	80	20	35	150
P82	60x60	5179.34	3181.90	21.2	16.9	2100	1000	1.4	1.7	105	105	25	35	150
P83	30x30	6090.41	3243.59	8.5	0.2	400	200	0.4	0.6	70	70	25	35	200
P84	60x60	5847.87	3162.08	8.1	4.3	1400	1800	1.4	1.0	105	105	25	35	150
P85	20x30	6230.00	3168.28	6.1	0.3	100	100	0.2	0.3	60	70	25	35	150
P86	60x60	5355.36	3086.93	19.4	15.7	1900	2000	1.6	1.4	105	105	25	35	150
P87	15x30	3682.85	3051.34	2.3	1.0	200	200	0.3	0.3	60	70	25	35	150
P88	60x60	6023.89	3067.11	16.2	13.1	1000	700	0.6	0.7	100	100	25	35	200
P89	20x30	6406.18	3073.24	5.4	0.4	500	300	0.1	0.2	60	70	25	35	150
P90	15x30	3818.34	2978.21	2.7	1.6	300	100	0.1	0.5	60	70	25	35	150
P91	60x60	5531.38	2991.96	19.5	15.8	1700	2200	1.8	1.2	105	105	25	35	150
P92	20x30	6582.35	2978.18	5.0	0.4	600	300	0.1	0.2	60	70	25	35	150
P93	15x30	3604.51	2906.14	2.1	1.1	300	100	0.1	0.4	60	70	25	35	150
P94	60x60	5707.40	2896.99	19.6	15.8	1600	2300	1.8	1.2	105	105	25	35	150
P95	20x30	6758.37	2883.21	4.7	0.4	600	400	0.1	0.2	60	70	25	35	150
P96	15x30	3740.00	2833.01	2.8	1.5	300	200	0.3	0.4	60	70	25	35	150
P97	60x60	5883.42	2802.02	16.4	13.5	1100	900	0.6	0.8	100	100	25	35	200
P98	20x30	6934.38	2788.25	4.6	0.4	700	400	0.1	0.2	65	75	25	35	150
P99	20x30	7110.39	2693.29	4.3	0.4	600	400	0.1	0.2	65	75	25	35	150
P100	20x30	7286.40	2598.32	2.7	0.2	600	300	0.1	0.2	80	90	20	35	150
P101	20x30	3248.03	3907.83	8.1	1.5	200	100	0.2	0.3	60	70	25	35	100
P102	15x30	3643.76	3956.21	8.2	1.7	200	100	0.1	0.3	60	70	25	35	100
P103	15x30	4042.84	3964.05	8.5	1.7	300	100	0.1	0.4	60	70	25	35	100
P104	15x30	4439.61	3928.26	6.9	1.4	300	200	0.3	0.3	60	70	25	35	100
P105	20x30	2845.12	3830.90	18.7	12.6	200	400	0.7	0.2	75	85	20	35	100
P106	20x30	3273.62	3757.76	3.5	2.0	300	100	0.1	0.3	60	70	25	35	100
P107	15x30	3650.78	3806.18	3.8	2.0	300	100	0.1	0.4	60	70	25	35	100
P108	15x30	4039.06	3814.21	3.8	2.0	300	100	0.1	0.4	60	70	25	35	100
P109	15x30	4412.30	3782.17	3.0	1.4	300	200	0.2	0.3	60	70	25	35	100
P110	20x30	2871.33	3683.20	3.3	0.3	400	100	0.2	0.6	65	75	25	35	150
P111	15x30	3286.83	3265.02	3.9	2.5	300	300	0.5	0.4	60	75	25	35	150
P112	15x30	3418.84	3193.76	2.2	1.1	300	200	0.3	0.5	60	75	25	35	150
P113	15x30	3208.46	3119.81	4.0	2.8	400	100	0.2	0.6	60	75	25	35	150
P114	15x30	3340.50	3048.56	2.2	1.0	200	300	0.4	0.3	60	75	25	35	150
P115	20x30	2390.40	3750.18	7.5	4.8	900	400	0.7	1.3	65	75	25	35	150
P116	15x30	1989.00	3678.95	3.5	2.2	700	400	0.7	1.1	75	90	20	35	150
P117	15x30	2902.92	3476.75	8.3	4.6	300	1300	2.3	0.6	85	100	20	35	150
P118	20x30	2453.77	3404.66	14.2	7.8	1000	200	0.3	1.5	75	90	20	35	150
P119	15x30	3049.19	3393.21	0.9	0.2	200	200	0.2	0.2	55	70	25	35	150
P120	15x30	2059.40	3325.31	6.2	3.4	500	900	1.7	0.8	75	90	20	35	150
P121	15x30	2966.77	3224.67	6.3	3.5	600	1000	1.8	1.0	85	100	20	35	150
P122	15x30	2501.24	3108.39	13.7	7.4	800	300	0.5	1.2	65	80	20	35	150
P123	15x30	2112.85	3024.22	6.6	3.6	200	800	1.6	0.3	65	80	20	35	150
P124	15x30	2747.82	2837.32	2.9	1.6	400	100	0.1	0.4	60	75	25	35	250
P125	15x30	2559.51	2765.68	6.4	3.5	800	500	0.5	0.8	60	75	25	35	250
P126	15x30	2176.65	2621.78	3.5	1.9	700	200	0.2	0.8	75	90	20	35	250
P127	15x30	2031.88	4224.92	1.9	1.2	200	100	0.2	0.3	55	70	25	35	200
P128	15x30	2195.27	4247.75	1.3	0.4	300	100	0.1	0.4	65	80	20	35	150
P129	15x40	2060.38	4020.95	2.0	0.7	300	300	0.3	0.3	65	90	20	35	150
P130	15x40	2223.78	4043.72	17.5	11.7	300	200	0.4	0.4	65	90	20	35	200
P131	15x30	1957.64	4756.77	3.0	1.9	200	100	0.2	0.2	55	70	25	35	150
P132	15x30	2121.09	4779.59	1.2	0.6	200	100	0.2	0.3	55	70	25	35	150
P133	15x30	1992.49	4507.22	4.6	2.9	200	300	0.4	0.2	55	70	25	35	150
P134	15x30	2155.88	4530.01	6.1	3.9	200	200	0.3	0.2	55	70	25	35	150
P135	15x30	1924.58	4994.48	1.6	1.0	200	200	0.2	0.1	55	70	25	35	150
P136	15x30	2087.87	5017.28	2.0	1.3	300	200	0.2	0.1	55	70	25	35	150



PROPRIETÁRIO

COMPANHIA HIDROMINERAL DE PIRATUBA
83.076.315/0001-40

RESPONSÁVEL TÉCNICO

JAIME FERNANDO SCHMIDT COSTA:34903380068
Assinado de forma digital por JAIME FERNANDO SCHMIDT COSTA:34903380068
Dados: 2023.08.22 09:56:04 -03'00'

JAIME F. SCHMIDT COSTA
CREA/SC 31169-5

EQUIPE TÉCNICA DA EMPRESA

FERRARI ENGENHARIA

EMESON FERRARI
Engenheiro Mecânico
CREA/SC: 165014-3

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RENATO BERGAMO
Engenheiro Eletricista
CREA/SC: 068830-4

PROPRIETÁRIO COMPANHIA HIDROMINERAL DE PIRATUBA
EDIFICAÇÃO ESTRUTURA DE FUNDAÇÃO - ESCADAS E PASSARELAS
ENDEREÇO AV. DEZOITO DE FEVEREIRO, 2455 - PIRATUBA- SC

PROJETO ESTRUTURA DE CONCRETO ARMADO
ARQUIVO ESTRUTURAL
DATA 15-08-2023
CONTEÚDO PLANTA DE LOCAÇÃO
ETAPA PROJETO EXECUTIVO
ESCALA INDICADA
FOLHA **E 01-21**

FERRARI ENGENHARIA | CREA nº 165014-3 | CNPJ 35.949.131/0001-02
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Formato A0 (1189 x 841mm