Planta de locação

escala 1:100

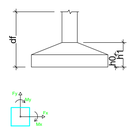
Pilar										Fundação			
Nome	Seção (cm)	'X' (cm)	'Y' (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Mx (kgf.m)	My (kgf.m)	Fx (tf)	Fy (tf)	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	df
P1	40x40	2678.00	5297.50	8.6	7.5	500	600	0.7	0.6	95	95	55	55	150
P2	40x40	3114.55	5297.50	9.2	8.5	1200	500	0.3	0.2	105	105	55	55	150
P3	40x40	3559.60	5297.50	9.2	8.6	1600	400	0.3	0.2	105	105	55	55	150
P4	40x40	4003.65	5297.50	9.2	8.6	1600	400	0.3	0.2	105	105	55	55	150
P5	30x40	4448.70	5297.50	9.2	9.0	1600	500	0.3	0.2	105	105	55	55	150
P6	30x40	4868.00	5297.50	9.2	9.0	1600	500	0.7	0.6	95	95	55	55	150
P7	40x40	2678.00	4928.20	8.9	7.6	400	1300	0.2	0.3	105	105	55	55	150
P8	40x40	4868.00	4928.20	8.1	7.4	400	1300	0.2	0.3	100	100	55	55	150
P9	40x40	2678.00	4535.10	8.3	7.4	400	1300	0.2	0.3	100	100	55	55	150
P10	40x40	4868.00	4535.10	8.0	7.3	400	1300	0.2	0.3	100	100	55	55	150
P11	30x40	2678.00	4144.50	12.7	11.6	700	400	0.8	0.5	110	110	55	55	150
P12	40x40	3114.53	4157.50	8.9	8.3	1200	600	0.5	0.2	100	100	55	55	150
P13	40x40	3559.60	4157.50	8.9	8.3	1200	600	0.5	0.2	100	100	55	55	150
P14	40x40	4003.65	4157.50	12.1	11.4	1300	800	0.8	1.0	110	110	45	45	150
P15	40x40	4463.05	4157.50	8.9	8.3	1200	600	0.5	0.2	100	100	55	55	150
P16	40x40	4903.00	4144.50	12.3	11.4	700	400	0.9	0.6	95	110	35	55	150
P17	30x30	2673.00	3608.60	11.9	11.2	200	500	0.8	0.2	100	100	45	45	150
P18	30x30	3106.00	3608.60	7.6	7.1	300	300	0.3	0.1	85	85	45	45	150
P19	14x30	3631.00	3608.50	14.9	14.6	400	100	0.2	0.2	95	110	35	35	150
P20	14x30	4028.00	3608.50	14.9	14.6	400	100	0.2	0.2	95	110	35	35	150
P21	30x30	4428.28	3608.60	8.5	8.0	300	300	0.2	0.1	85	85	45	45	150
P22	30x30	4903.00	3608.60	12.7	12.0	200	500	0.7	0.2	100	100	45	45	150
P23	30x30	815.00	3112.50	21.4	13.3	600	1100	0.8	0.6	125	125	45	45	150
P24	30x30	1181.90	3112.50	28.6	20.4	500	1700	1.6	0.3	150	150	45	45	150
P25	30x30	1549.50	3112.50	34.2	24.2	1000	1200	1.4	1.3	150	150	45	45	150
P26	30x30	815.00	2796.50	26.7	16.3	800	1100	0.9	0.7	140	140	45	45	150
P27	30x30	1181.90	2796.50	35.8	25.3	1000	1200	1.6	0.4	150	150	45	45	150
P28	14x60	1723.00	2854.50	12.7	10.2	700	600	0.9	0.6	90	120	45	45	150
P41	30x30	815.00	2530.50	26.5	16.4	800	1100	0.9	0.5	140	140	45	45	150
P42	30x30	1181.90	2538.50	27.9	18.7	200	1500	1.3	0.2	150	150	40	40	150
P43	30x30	1549.50	2530.50	46.2	29.5	800	1200	1.0	0.6	175	175	50	50	150
P44	30x30	1723.00	2544.50	5.7	3.6	500	400	0.7	0.4	70	90	35	35	150
P45	40x40	2195.39	2523.50	8.2	7.6	1300	800	0.5	0.2	100	100	55	55	150
P46	40x40	2536.75	2523.50	8.8	8.1	1400	800	0.5	0.2	95	95	55	55	150
P47	30x30	3023.00	2544.50	8.8	8.3	400	500	0.6	0.6	90	100	35	35	150
P50	30x30	3663.00	2544.50	9.4	8.8	400	500	0.8	0.9	95	95	45	45	150
P51	30x30	4428.28	2544.50	9.7	9.3	300	400	0.5	0.3	95	95	45	45	150
P52	30x30	4903.00	2544.50	9.9	9.2	700	600	1.0	1.2	100	100	45	45	150
P53	14x30	1303.00	2344.50	9.9	5.6	400	300	0.4	0.5	80	95	35	35	150
P54	14x30	2349.00	2321.50	6.8	6.2	500	200	0.3	0.9	70	90	35	35	150
P55	30x30	3106.00	2321.50	5.2	4.8	500	400	0.3	0.1	80	85	45	45	150
P56	14x30	3631.00	2321.50	5.5	5.1	500	100	0.2	0.9	70	90	35	35	150
P57	14x30	4028.00	2321.50	5.5	5.1	500	100	0.2	0.9	70	90	35	35	150
P60	30x30	4428.28	2321.50	8.9	8.4	600	400	0.4	0.2	95	95	45	45	150
P61	14x30	4911.00	2321.50	8.4	8.0	500	300	0.6	0.2	80	95	35	35	150
P62	30x30	815.00	2223.30	25.9	17.0	500	1000	0.9	0.5	140	140	45	45	150
P63	14x40	1181.90	2223.30	25.9	14.3	200	1600	1.5	0.2	125	150	40	40	150
P64	14x30	1303.00	2100.50	10.0	5.9	400	300	0.4	0.5	80	95	35	35	150
P65	30x30	815.00	1914.50	18.9	11.0	800	1100	1.0	1.0	125	125	45	45	150
P66	30x30	1181.90	1914.50	28.7	18.5	1000	1300	1.1	1.2	150	150	45	45	150
P67	30x30	1549.50	1914.50	28.7	18.5	1000	1300	1.1	1.2	150	150	45	45	150
P68	40x40	820.00	1801.28	14.3	5.0	1600	2300	0.7	1.6	120	120	55	55	150
P69	40x40	2336.00	1801.28	14.4	10.0	700	1100	0.4	0.4	105	105	55	55	150
P72	30x30	3156.00	1793.50	8.5	7.9	300	300	0.3	0.1	80	80	45	45	150
P73	14x30	3631.00	1793.50	14.1	13.5	300	200	0.3	0.5	90	100	35	35	150
P74	14x30	3953.50	1793.50	12.0	11.8	200	300	0.4	0.3	90	100	35	35	150
P75	30x30	4428.28	1793.50	8.7	8.2	400	500	0.6	0.3	90	95	45	45	150
P76	40x40	4428.28	1793.50	13.1	12.4	400	300	0.7	0.4	100	105	45	45	150
P77	30x30	815.00	1252.50	10.9	10.3	600	300	0.2	0.6	95	95	45	45	150
P78	14x30	1323.00	1252.50	4.5	4.1	100	200	0.1	0.1	70	70	35	35	150
P79	14x30	1489.00	1260.50	4.2	3.8	100	200	0.3	0.2	60	70	35	35	150
P80	30x30	1917.02	1252.50	4.5	4.0	500	300	0.3	0.1	70	75	35	35	150
P81	30x30	2341.00	1252.50	10.9	10.5	400	300	0.4	0.3	95	95	45	45	150
P82	30x30	2678.00	1257.50	10.9	10.2	300	300	0.3	0.2	95	95	45	45	150
P83	14x30	3023.00	1257.50	12.9	12.4	200	300	0.3	0.2	90	100	35	35	150
P84	14x30	3646.50	1257.50	12.9	12.6	200	300	0.3	0.2	90	100	35	35	150
P87	30x30	4428.28	1257.50	8.8	8.5	300	400	0.6	0.3	90	95	45	45	150
P88	30x30	4903.00	1257.50	13.0	12.3	200	500	0.7	0.2	100	100	45	45	150
P89	30x30	1323.00	917.50	3.8	3.3	200	200	0.2	0.2	70	75	35	35	150
P90	25x30	1489.00	917.50	6.6	6.2	300	300	0.1	0.3	70	75	35	35	150
P91	20x30	16.00	858.50	8.6	7.2	300	400	0.2	0.3	80	85	35	35	150
P92	25x30	440.00	860.50	11.2	10.4	200	500	0.7	0.3	90	90	35	35	150
P93	20x30	1723.00	860.50	7.1	6.7	200	300	0.2	0.2	70	75	35	35	150
P94	14x30	926.50	858.50	3.9	3.8	200	100	0.2	0.2	60	70	35	35	150
P95	20x20	2346.00	850.55	5.9	5.0	200	200	0.2	0.2	65	65	35	35	150
P96	14x30	2349.00	729.50	4.0	3.3	200	100	0.2	0.1	80	95	35	35	150
P99	14x30	3156.00	721.50	9.9	9.5	100	200	0.2	0.1	80	95	35	35	150
P100	14x30	3631.00	729.50	8.6	8.2	400	300	0.4	0.7	95	95	35	35	150
P101	14x30	3945.50	713.50	10.7	10.0	300	300	0.5	0.6	85	105	35	35	150
P102	14x30	4428.28	713.50	10.7	10.1	300	300	0.5	0.6	85	105	35	35	150
P103	30x30	4903.00	721.50	8.7	8.5	500	400	0.8	0.9	95	95	45	45	150
P104	14x30	8.00	574.50	7.5	6.6	300	300	0.5	0.4	70	90	35	35	150
P105	14x30	440.00	582.50	8.9	8.1	200	200	0.3	0.4	90	95	35	35	150
P106	14x30	656.00	574.50	8.9	5.9	100	300	0.4	0.2	70	85	35	35	150
P107	14x30	926.50	574.50	8.0	7.2	100	300	0.4	0.2	70	85	35	35	150
P108	14x30	1323.00	582.50	8.9	6.0	200	100	0.2	0.3	60	80	35	35	150
P109	14x30	1489.00	574.50	8.9	6.2	200	100	0.2	0.3	60	80	35	35	150
P110	14x30	1733.00	574.50	12.8	10.4	100	600	1.7	0.2	90	110	35	35	150
P111	14x30	2349.00	582.50	7.2	5.8	200	600	1.2	0.2	80	95	35	35	150
P112	20x25	4903.00	576.10	1.5	1.3	200	100	0.1	0.2	65	65	35	35	150
P113	25x25	4905.50	575.90	1.1	0.4	200	100	0.2	0.2	65	65	35	35	150
P114	20x30	156.00	408.50	3.3	2.1	600	100	0.2	1.1	80	80	45	45	150
P115	30x40	16.00	408.50	13.0	10.3	700	400	0.5	1.2	95	110	35	35	150
P116	14x40	656.00	408.50	16.5	14.9	1100	2100	2.0	1.5	145	145	35	35	150
P117	14x40	926.50	408.50	16.5	14.9	1100	2100	2.0	1.5	145	145	35	35	150
P118	14x40	986.00	408.50	16.1	12.0	300	300	0.3	0.4	90	120	45	45	150
P119	14x30	1322.00	395.50	14.8	11.4	600	100	0.1	1.1	95	110	35	35	150
P120	14x30	1733.00	400.50	17.7	14.5	300	400	0.7	0.4	100	120	35	35	150
P121	14x40	2322.00	400.50	19.5	14.9	1100	2100	2.0	1.5	145	145	35	35	150
P124	14x30	3156.00	408.50	14.9	13.1	100	200	0.3	0.1	95	110	35	35	150
P125	14x30	3623.00	408.50	14.9	8.7	100	600	0.2	0.1	95	110	35	35	150
P126	30x30	3957.50	416.50	7.6	6.0	300	200	0.2	0.4	80	80	45	45	150
P127	30x30	4428.28	416.50	8.6	6.8	300	200	0.2	0.4	80	80	45	45	150
P128	20x30	1733.00	141.64	11.2	7.9	200	500	0.8	0.2	90	105	35	35	150
P129	14x30	2046.00	141.64	6.0	3.4	100	600	1.2	0.1	70	85	35	35	150
P130	20x30	2964.15	147.36	6.4	3.7	200	200	0.3	0.2	65	65	35	35	150
P131	20x20	3156.00	147.36	5.3	3.8	100	200	0.4	0.2	65	65	35	35	150
P132	20x20	3623.00	147.36	5.8	4.3	200	300	0.4	0.3	80	80	35	35	150
P133	20x20	3940.55	147.36	2.9	2.2	200	200	0.2	0.2	65	65	35	35	150
P134	20x20	4428.28	147.36	3.0	2.3	200	200	0.2	0.2	65	65	35	35	150
P135	30x30	16.00	16.00	10.8	8.0	700	300	0.3	1.2	95	110	35	35	150
P136	14x30	332.50	8.00	14.6	11.6	200	200	0.2	0.3	95	110	35	35	150
P137	14x30	656.00	8.00	14.6	11.5	200	200	0.2	0.3	95	110	35	35	150
P138	14x30	986.00	8.00	10.6	12.6	200	200	0.2	0.3	95	110	35	35	150
P139	14x30	1322.00	8.00	12.2	8.7	600	200	0.2	1.0	95	110	35	35	150
P142	20x20	-135.95	-121.95	3.1	2.3	600	100	0.2	1.2	80	80	45	45	400
P143	20x20	332.50	-121.95	1.8	1.3	100	100	0.2	0.1	80	80	45	45	400
P144	20x20	332.50	-121.95	1.8	1.3	100	100	0.2	0.1	80	80	45	45	400
P145	20x20	656.50	-120.95	1.7	1.4	100	100	0.2	0.1	80	80	35	35	400
P146	20x20	986.00	-121.95	1.6	1.3	100	100	0.2	0.1	80	80	35	35	400
P147	14x40	1322.00	-111.95	6.3	4.3	300	100	0.2	0.4	60	90	35	35	150
P148	20x20	1723.00	-111.95	15.3	12.6	400	300	0.5	0.5	80	80	35	35	150
P149	20x20	2349.00	-116.95	17.9	14.8	1200	700	1.3	2.2	120	130	35	35	150
P150	20x20	2964.15	-116.95	2.1	1.1	300	200	0.4	0.4	70	70	35	35	150
P153	20x20	2964.15	-116.95	2.1	1.1	300	200	0.4	0.4	70	70	35	35	150
P26=P27		2673.00	3080.75	14.3	13.9	0	0	0.3	0.3	85	115	45	45	150
P28=P29		3156.00	3080.75	10.1	9.9	1200	800	0.5	0.2	105	105	35	35	150
P30=P31		3623.00	3080.75	13.2	13.0	300	800	0.2	0.2	105	105	35	35	150
P32=P33		3953.50	3080.75	15.1	12.9	400	1000	0.8	0.2	110	110	35	35	150
P34=P35		4428.28	3080.75	10.0	9.8	1100	700	0.4	0.2	90	115	45	45	150
P36=P37		4903.00	3080.75	14.6	14.1	800	1200	0.9	0.4	120	125	45	45	150
P85=P86		2858.75	2349.50	16.3	13.1	2100	1600	0.5	1.5	140	150	45	45	150
P97=P98		2964.75	1793.50	17.2	16.3	2100	1600	0.5	1.5	140	150	45	45	150
P70=P71		2964.75	1783.50	17.4	17.0	700	300	0.7	0.5	125	125	45	45	150
P82=P83		2964.75	1257.50	17.2	17.0	500	400	0.7	0.4	120	105	45	45	150
P97=P98		2858.75	721.50	14.4	13.5	1100	200	0.5	1.0	110	105	45	45	150
P122=P123		2649.24	416.50	16.4	14.2	1500	1500	2.1	1.3	135	120	45	45	150
P140=P141		2649.74	17.05	14.4	10.9	1200	1000	0.3	1.1	130	110	45	45	150
P150=P151		2858.74	-116.75	5.3	2.5	400	100	0.1	0.3	70	70	35	35	150

Locação no eixo X

Coordenadas (cm)	Nome
-136.00	P114
-120.95	P142
8.00	P154
16.00	P155
92.00	P57, P115, P135
332.50	P116, P136, P144
440.00	P60, P105
656.00	P106
658.50	P117, P137, P145
799.00	P93
815.00	P23, P38, P41, P62, P65, P77
820.00	P58
926.50	P79, P107
986.00	P118, P138, P146
1181.90	P24, P39, P42, P63, P66
1303.00	P13, P139, P147
1323.00	P78, P89, P108
1393.00	P53, P64
1489.00	P79, P90, P109
1549.50	P25, P40, P67
1720.00	P44
1723.00	P40
1733.00	P110, P120, P128, P148
1917.02	P80
2046.00	P129
2195.39	P45
2341.00	P81
2349.00	P91
2346.00	P95
2349.00	P54, P96, P111, P149
2352.00	P121
2648.74	P140=P141
2649.24	P122=P123
2678.00	P1, P7, P26=P27=P96
2858.74	P124=P151
2964.15	P70=P71, P82=P83
2993.75	P48=P47
2673.00	P11, P17, P26=P27
2678.00	P1, P7, P8
2759.05	P152
2964.15	P130, P153
3114.53	P12
3156.00	P9
3156.00	P18, P28=P29, P48, P57, P72, P84, P99, P124, P131
3554.60	P13
3559.60	P3
3623.00	P30=P31, P45, P125, P132
3631.00	P19, P58, P73, P85, P100
3697.50	P126
3940.55	P133
3945.50	P20
3945.50	P86, P101
3953.00	P32=P33, P50
3953.50	P59, P74
4013.05	P4
4018.05	P14
4028.00	P21, P60
4428.28	P22, P34=P35, P51, P60, P75, P87, P102
4468.05	P5
4463.05	P15
4512.58	P127
4682.75	P112
4868.00	P6, P8, P10
4903.00	P16, P22, P36=P37, P52, P76, P88, P103
4905.50	P113
4911.00	P61

Locação no eixo Y

Coordenadas (cm)	Nome
5297.50	P6
5297.50	P1, P2, P3, P4, P5
4928.20	P7, P8
4535.10	P9, P10
4157.50	P12, P13, P14, P15
4144.50	P11, P16
3608.60	P17, P18, P21, P22
3608.50	P19, P20
3112.50	P23, P24, P25
3080.75	P26=P27, P28=P29, P30=P31, P32=P33, P34=P35, P36=P37
2796.50	P38, P40
2756.50	P39
2544.50	P44, P47
2530.50	P41, P43
2523.50	P45
2344.50	P53
2329.50	P54, P55=P56, P57, P58, P60, P61
2223.30	P63
2100.50	P64
1914.50	P65, P66, P67
1801.30	P69
1793.50	P70=P71, P72, P73, P74, P75, P76
1260.50	P79
1257.50	P82=P83, P84, P86, P87, P88
1252.50	P77, P78, P80, P81
917.50	P89, P90
858.50	P93
850.55	P94
729.50	P97, P94
721.50	P96
713.50	P97=P98, P99, P102, P103
582.50	P100, P101
576.10	P105, P108, P109, P111
575.90	P112
574.50	P110, P113
582.50	P114, P106, P107, P110
416.50	P122=P123, P126
410.07	P127
408.50	P114, P115, P116, P118, P124, P125
400.50	P117, P120, P121
395.50	P119
147.50	P134
141.64	P128, P131, P132, P133
147.36	P129, P130
17.00	P140=P141
16.00	P135
8.00	P136, P137, P138
0.00	P139
-111.95	P147, P148
-116.75	P149, P150
-116.95	P140, P153
-120.95	P145
-121.40	P143
-121.95	P142, P144, P146
-124.74	P152



ARQUITETURA E ENGENHARIA > PROJETOS INDUSTRIAIS / COMERCIAIS / RESIDENCIAIS E PÚBLICAS > ASSESSORIA / CONSULTORIA > GESTÃO DE OBRAS > PERÍCIAS > EXECUÇÃO DE OBRAS	AV. BRASIL, 1225 - SALA 03 UNIVERSITÁRIO CEP 89509-017 - LAGES/SC TEL.: (49) 99923 2944 CNPJ 20.270.410/0001-60	**81**

RESP. TÉC.: JAMES ANDRE CLAUBERG:60441690904 — Assinado de forma digital por JAMES ANDRE CLAUBERG:60441690904 Dados: 2022.10.13 12:31:33 -03'00'
James André Clauberg
Eng. Civil - CREA 45.160-6

RESP. TÉC.: INDIAMARA DE OLIVEIRA RIBEIRO:06834160906 — Assinado de forma digital por INDIAMARA DE OLIVEIRA RIBEIRO:06834160906 Dados: 2022.10.13 12:31:57 -03'00'
Indiamara de Oliveira Ribeiro
Eng. Civil - CREA 13.4548-3

CLIENTE:
Prefeitura Municipal de Rio Rufino

OBRA:

PROJETO ESTRUTURAL
ESCOLA MUNICIPAL DE RIO RUFINO

PLANTA DE LOCAÇÃO DAS SAPATAS

DESENHO :	ESCALA:	DATA:
		OUT/2022

TAMANHO DE FOLHA A1