



PREFEITURA MUNICIPAL DE PAULO LOPES
SECRETARIA DE PLANEJAMENTO

PROJETO DE ENGENHARIA PARA PAVIMENTAÇÃO

RODOVIA: MUNICIPAL

TRECHO: PAULO LOPES - DIVISA PAULO LOPES/GAROPABA

EXTENSÃO: 4,94 Km

VOLUME 4:

- COORDENADAS;**
- LOCAÇÃO;**
- NOTAS DE SERVIÇOS DE TERRAPLENAGEM.**

JULHO 2014



**PREFEITURA MUNICIPAL DE PAULO LOPES
SECRETARIA DE PLANEJAMENTO**

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PREFEITURA MUNICIPAL DE PAULO LOPES
SECRETARIA DE PLANEJAMENTO

1 COORDENADAS

Nome	Descrição	Norte	Este	Cota
P1	E	6.904.762,0760	729.060,4860	10,035
P2	E	6.904.724,5379	729.148,5599	10,267
P3	E	6.904.677,4510	729.207,7047	9,408
P4	E	6.904.611,3339	729.324,5195	8,347
P5	E	6.904.537,5448	729.481,6805	8,804
P6	E	6.904.458,9969	729.633,2050	10,176
P7	E	6.904.446,4973	729.881,5626	11,405
P8	E	6.904.417,7553	730.097,4336	11,163
P9	E	6.904.471,1573	730.227,4407	9,993
P10	E	6.904.494,2783	730.324,1667	9,129
P11	E	6.904.553,4850	730.423,7913	10,605
P12	E	6.904.599,0409	730.543,2875	24,268
P13	E	6.904.611,9206	730.594,2688	19,156
P14	E	6.904.669,4208	730.639,0850	11,033
P15	E	6.904.784,5749	730.730,3081	14,184
P16	E	6.904.834,7840	730.750,1477	14,868
P17	E	6.904.916,2203	730.761,0367	15,390
P18	E	6.904.997,4557	730.749,6452	8,806
P19	E	6.905.118,2657	730.796,5943	9,799
P20	E	6.905.175,2105	730.866,4454	6,720
P21	E	6.905.230,0990	730.945,2250	7,147
P22	E	6.905.309,0614	730.979,9224	5,730
P23	E	6.905.365,4489	731.054,7108	6,244
P24	E	6.905.416,9075	731.105,7110	10,651
P25	E	6.905.513,2792	731.096,4312	5,827
P26	E	6.905.599,7664	731.120,0510	8,785
P27	E	6.905.670,7776	731.148,9448	15,469
P28	E	6.905.723,9559	731.183,8371	23,455
P29	E	6.905.785,8007	731.235,1267	33,968
P30	E	6.905.841,2192	731.260,6034	32,792
P31	E	6.905.848,6586	731.299,3848	33,364
P32	E	6.905.802,9062	731.329,8468	42,115
P33	E	6.905.699,6793	731.303,8342	52,365
P34	E	6.905.541,1446	731.303,5218	66,531
P35	E	6.905.461,1928	731.335,0303	71,757
P36	E	6.905.364,2481	731.304,1305	79,754
P37	E	6.905.244,8629	731.303,5734	87,365
P38	E	6.905.161,6911	731.254,1594	92,670
P39	E	6.905.079,7249	731.248,9737	99,476
P40	E	6.904.877,8364	731.201,5309	114,057
MC5	E	6.904.790,8248	731.297,6135	130,424
MC6	E	6.904.659,5438	731.310,1996	152,633
P41	E	6.904.625,9264	731.343,9207	155,768
P42	E	6.904.559,6094	731.316,0101	163,307
P43	E	6.904.441,3967	731.306,7023	166,951
P44	E	6.904.389,2164	731.341,8960	168,173



PREFEITURA MUNICIPAL DE PAULO LOPES
SECRETARIA DE PLANEJAMENTO

2 LOCAÇÃO

Nome	Descrição	Norte	Este	Cota
0	PI-0	6.904.774,2811	729.052,9149	9,758
1		6.904.764,3092	729.070,2516	9,872
2		6.904.754,3374	729.087,5883	10,123
3		6.904.744,3655	729.104,9251	10,270
4		6.904.734,3937	729.122,2618	10,276
5		6.904.724,4219	729.139,5986	10,139
6		6.904.714,4500	729.156,9353	10,001
7		6.904.704,4782	729.174,2720	9,823
8		6.904.694,5064	729.191,6088	9,691
9		6.904.684,5345	729.208,9455	9,487
10		6.904.674,5627	729.226,2822	9,216
11		6.904.664,5909	729.243,6190	8,959
12		6.904.654,6190	729.260,9557	8,802
13		6.904.644,6472	729.278,2925	8,624
14		6.904.634,6753	729.295,6292	8,542
15		6.904.624,7035	729.312,9659	8,553
16		6.904.614,7317	729.330,3027	8,616
17		6.904.604,7598	729.347,6394	8,653
18		6.904.594,7880	729.364,9761	8,731
19		6.904.584,8162	729.382,3129	8,853
20		6.904.574,8443	729.399,6496	8,879
21		6.904.564,8725	729.416,9864	8,874
22		6.904.554,9007	729.434,3231	8,911
23		6.904.544,9288	729.451,6598	8,967
24		6.904.534,9570	729.468,9966	9,050
25		6.904.524,9851	729.486,3333	9,224
25+16,111	TE1	6.904.516,9522	729.500,2992	9,381
26		6.904.515,0139	729.503,6704	9,440
27		6.904.505,1827	729.521,0868	9,727
27+16,111	EC1	6.904.497,6753	729.535,3411	9,896
28		6.904.495,9515	729.538,8268	9,939
29		6.904.487,7035	729.557,0439	10,113
30		6.904.480,5093	729.575,7023	10,201
31		6.904.474,3926	729.594,7411	10,275
32		6.904.469,3731	729.614,0982	10,419
33		6.904.465,4674	729.633,7103	10,376
33+5,625	CE1	6.904.464,5715	729.639,2630	10,360
34		6.904.462,6530	729.653,5092	10,342
35		6.904.460,5628	729.673,3993	10,299
35+5,625	ET1	6.904.460,0284	729.678,9983	10,264
36		6.904.458,6677	729.693,3093	10,217
37		6.904.456,7747	729.713,2195	10,266
38		6.904.454,8817	729.733,1297	10,293
39		6.904.452,9886	729.753,0399	10,253
40		6.904.451,0956	729.772,9501	10,278
41		6.904.449,2026	729.792,8603	10,381
42		6.904.447,3096	729.812,7705	10,550
43		6.904.445,4166	729.832,6807	10,726
44		6.904.443,5235	729.852,5909	10,879
45		6.904.441,6305	729.872,5012	11,014
46		6.904.439,7375	729.892,4114	11,154

Nome	Descrição	Norte	Este	Cota
47		6.904.437,8445	729.912,3216	11,231
48		6.904.435,9515	729.932,2318	11,347
49		6.904.434,0585	729.952,1420	11,460
50		6.904.432,1654	729.972,0522	11,427
51		6.904.430,2724	729.991,9624	11,297
52		6.904.428,3794	730.011,8726	11,196
52+14,137	TE2	6.904.427,0413	730.025,9462	11,138
53		6.904.426,4899	730.031,7831	11,122
54		6.904.424,8926	730.051,7183	11,063
54+14,137	EC2	6.904.424,3635	730.065,8441	10,974
55		6.904.424,3679	730.071,7069	10,952
56		6.904.425,4598	730.091,6713	10,834
57		6.904.428,2096	730.111,4755	11,012
57+16,717	CE2	6.904.431,7665	730.127,8058	10,903
58		6.904.432,5977	730.130,9822	10,838
59		6.904.438,3871	730.150,1232	10,238
59+16,717	ET2	6.904.443,7687	730.165,9498	9,822
60		6.904.444,8408	730.169,0532	9,766
61		6.904.451,3712	730.187,9570	9,327
62		6.904.457,9016	730.206,8608	9,183
63		6.904.464,4321	730.225,7646	9,353
64		6.904.470,9625	730.244,6684	9,766
65		6.904.477,4930	730.263,5721	10,036
66		6.904.484,0234	730.282,4759	9,863
66+0,263	PC3	6.904.484,1094	730.282,7248	9,857
67		6.904.490,6764	730.301,3368	9,382
68		6.904.497,5803	730.320,1073	8,855
69		6.904.504,7337	730.338,7841	8,332
70		6.904.512,1356	730.357,3638	7,652
71		6.904.519,7846	730.375,8432	7,066
71+4,311	PT3	6.904.521,4654	730.379,8127	7,001
72		6.904.527,6038	730.394,2513	6,856
73		6.904.535,4288	730.412,6571	7,251
74		6.904.543,2537	730.431,0628	8,403
75		6.904.551,0787	730.449,4685	10,165
76		6.904.558,9036	730.467,8742	12,119
77		6.904.566,7286	730.486,2799	14,166
78		6.904.574,5535	730.504,6856	16,336
79		6.904.582,3784	730.523,0913	18,442
79+2,813	TE4	6.904.583,4790	730.525,6801	18,720
80		6.904.590,2811	730.541,4636	19,694
81		6.904.598,8099	730.559,5511	19,861
81+2,813	EC4	6.904.600,1001	730.562,0508	19,780
82		6.904.608,5840	730.576,9940	19,065
83		6.904.619,7204	730.593,6002	17,654
84		6.904.632,1483	730.609,2634	15,559
84+15,410	CE4	6.904.642,5549	730.620,6249	14,033
85		6.904.645,7871	730.623,8844	13,584
86		6.904.660,3869	730.637,5503	11,744
86+15,410	ET4	6.904.671,9476	730.647,7387	10,652
87		6.904.675,4035	730.650,7601	10,412

Nome	Descrição	Norte	Este	Cota
88		6.904.690,4603	730.663,9240	9,541
89		6.904.705,5172	730.677,0880	8,836
90		6.904.720,5741	730.690,2520	8,327
90+0,570	TE5	6.904.721,0031	730.690,6271	8,318
91		6.904.735,7142	730.703,3196	8,394
92		6.904.751,3686	730.715,7620	9,521
92+0,570	EC5	6.904.751,8270	730.716,1006	9,562
93		6.904.767,9178	730.726,9821	11,510
94		6.904.785,3436	730.736,7858	13,509
95		6.904.803,5249	730.745,1051	14,498
96		6.904.822,3355	730.751,8820	16,781
97		6.904.841,6450	730.757,0698	17,009
98		6.904.861,3193	730.760,6322	17,556
99		6.904.881,2218	730.762,5447	18,141
100		6.904.901,2145	730.762,7939	16,001
100+8,488	CE5	6.904.909,6930	730.762,3961	15,959
101		6.904.921,1611	730.761,4045	14,693
102		6.904.940,9953	730.758,8444	12,349
102+8,488	ET5	6.904.949,3925	730.757,6040	11,609
102+10,603	TE6	6.904.951,4842	730.757,2924	11,411
103		6.904.960,7813	730.755,9266	10,505
104		6.904.980,6364	730.753,5434	9,369
104+10,603	EC6	6.904.991,2168	730.752,8691	9,127
105		6.905.000,6121	730.752,7687	8,894
106		6.905.020,5515	730.754,1861	8,433
107		6.905.040,2108	730.757,8057	8,047
108		6.905.059,3475	730.763,5829	7,403
109		6.905.077,7256	730.771,4464	6,693
110		6.905.095,1184	730.781,2992	6,176
111		6.905.111,3115	730.793,0198	8,986
112		6.905.126,1051	730.806,4637	10,200
112+15,779	CE6	6.905.136,6688	730.818,1785	9,617
113		6.905.139,3182	730.821,4639	9,420
114		6.905.151,0548	730.837,6528	8,183
114+15,779	ET6	6.905.159,7627	730.850,8115	7,255
115		6.905.162,0716	730.854,3447	7,030
115+14,561	TE7	6.905.170,0371	730.866,5337	6,714
116		6.905.173,0150	730.871,0851	6,612
117		6.905.184,2014	730.887,6630	6,691
117+14,561	EC7	6.905.192,8725	730.899,3586	6,918
118		6.905.196,2823	730.903,5958	6,987
119		6.905.209,6589	730.918,4557	7,061
120		6.905.224,2754	730.932,0977	6,902
121		6.905.240,0215	730.944,4188	6,774
121+3,166	CE7	6.905.242,6099	730.946,2418	6,777
122		6.905.256,7326	730.955,3992	6,958
123		6.905.273,9780	730.965,5268	6,904
123+3,166	ET7	6.905.276,7255	730.967,0997	6,855
123+5,457	TE8	6.905.278,7137	730.968,2375	6,804
124		6.905.291,2887	730.975,5430	6,306
124+15,457	EC8	6.905.304,3199	730.983,8504	5,908

Nome	Descrição	Norte	Este	Cota
125		6.905.308,0289	730.986,4744	5,797
126		6.905.323,5232	730.999,1043	5,593
126+9,177	CE8	6.905.330,1433	731.005,4590	5,584
127		6.905.337,5504	731.013,3480	5,599
127+19,177	ET8	6.905.350,0267	731.027,9110	5,778
128		6.905.350,5547	731.028,5417	5,784
128+13,812	TE9	6.905.359,4214	731.039,1324	5,880
129		6.905.363,3997	731.043,8715	5,889
130		6.905.376,7016	731.058,8015	5,877
130+13,812	EC9	6.905.386,7282	731.068,2939	5,960
131		6.905.391,5338	731.072,1906	6,625
132		6.905.408,3285	731.083,0079	8,571
133		6.905.426,6850	731.090,8891	9,261
133+9,583	CE9	6.905.435,8866	731.093,5578	7,966
134		6.905.446,0875	731.095,6545	6,674
135		6.905.465,9402	731.098,0302	6,671
135+9,583	ET9	6.905.475,4938	731.098,7853	6,501
135+10,513	TE10	6.905.476,4211	731.098,8556	6,506
136		6.905.485,8799	731.099,5817	6,460
137		6.905.505,8010	731.101,3512	6,203
137+10,513	EC10	6.905.516,2463	731.102,5439	6,017
138		6.905.525,6431	731.103,8445	5,943
139		6.905.545,3376	731.107,3145	6,104
140		6.905.564,8342	731.111,7644	6,280
141		6.905.584,0839	731.117,1832	7,702
142		6.905.603,0388	731.123,5573	8,990
143		6.905.621,6514	731.130,8708	9,178
144		6.905.639,8752	731.139,1054	11,039
145		6.905.657,6647	731.148,2405	13,725
146		6.905.674,9754	731.158,2533	16,578
146+0,252	CE10	6.905.675,1903	731.158,3850	16,617
147		6.905.691,8082	731.169,0518	19,612
148		6.905.708,3632	731.180,2735	22,181
148+0,252	ET10	6.905.708,5712	731.180,4158	22,210
148+2,958	PC11	6.905.710,8044	731.181,9437	22,469
149		6.905.725,0309	731.191,3253	24,065
150		6.905.742,1225	731.201,7092	26,236
150+17,711	PT11	6.905.757,5943	731.210,3276	28,316
151		6.905.759,6132	731.211,4058	28,582
151+1,502	TE12	6.905.760,9377	731.212,1131	28,756
152		6.905.777,1595	731.221,0022	30,682
152+1,502	EC12	6.905.778,4584	731.221,7554	30,775
153		6.905.794,0971	731.231,6290	31,798
153+2,649	CE12	6.905.796,2791	731.233,1317	31,896
154		6.905.810,2844	731.243,3717	32,482
154+2,649	ET12	6.905.812,4006	731.244,9658	32,552
154+2,890	TE13	6.905.812,5931	731.245,1109	32,558
155		6.905.825,8186	731.255,9476	32,702
155+12,890	EC13	6.905.833,9827	731.265,8785	32,423
156		6.905.837,1420	731.272,2371	32,393
157		6.905.839,5558	731.291,8816	34,595

Nome	Descrição	Norte	Este	Cota
158		6.905.832,2561	731.310,2786	35,669
159		6.905.817,0299	731.322,9238	39,148
159+12,169	CE13	6.905.805,4171	731.326,4011	41,339
160		6.905.797,6052	731.326,7878	41,939
161		6.905.777,8979	731.323,5954	43,785
161+2,169	ET13	6.905.775,7887	731.323,0892	44,008
161+10,493	TE14	6.905.767,6961	731.321,1417	44,866
162		6.905.758,4500	731.318,9288	45,898
163		6.905.738,9282	731.314,5853	47,983
163+0,493	EC14	6.905.738,4453	731.314,4878	48,030
164		6.905.719,2354	731.311,1055	50,162
165		6.905.699,3933	731.308,6142	52,124
166		6.905.679,4514	731.307,1177	54,007
166+1,978	CE14	6.905.677,4760	731.307,0239	54,187
167		6.905.659,4609	731.306,5385	56,280
167+11,978	ET14	6.905.647,4839	731.306,4253	57,496
168		6.905.639,4617	731.306,3655	58,288
169		6.905.619,4623	731.306,2163	59,991
169+11,191	TE15	6.905.608,2713	731.306,1329	60,833
170		6.905.599,4628	731.306,0871	61,541
171		6.905.579,4735	731.306,6169	63,393
171+1,191	EC15	6.905.578,2849	731.306,6984	63,497
172		6.905.559,6214	731.308,9675	64,915
172+15,850	CE15	6.905.544,1311	731.312,3046	66,783
173		6.905.540,1255	731.313,3888	68,316
174		6.905.521,0686	731.319,4490	71,645
174+5,850	ET15	6.905.515,5375	731.321,3549	72,317
174+9,844	TE16	6.905.511,7631	731.322,6598	72,777
175		6.905.502,1499	731.325,9358	73,279
175+19,844	EC16	6.905.483,0707	731.331,3595	73,307
176		6.905.482,9183	731.331,3931	73,291
177		6.905.463,1316	731.334,1682	71,668
178		6.905.443,1535	731.333,8784	72,527
178+13,354	CE16	6.905.429,9411	731.331,9789	74,855
179		6.905.423,4528	731.330,5429	76,289
180		6.905.404,2489	731.324,9708	80,349
180+3,354	ET16	6.905.401,0537	731.323,9506	80,779
180+3,677	TE17	6.905.400,7458	731.323,8522	80,820
181		6.905.385,1660	731.318,9848	82,016
181+13,677	EC17	6.905.371,9772	731.315,3671	82,291
182		6.905.365,8169	731.313,9443	82,302
183		6.905.346,1024	731.310,6179	82,615
183+2,328	CE17	6.905.343,7906	731.310,3475	82,268
184		6.905.326,1756	731.308,9558	82,131
184+12,328	ET17	6.905.313,8614	731.308,3793	82,624
185		6.905.306,1962	731.308,0499	83,072
185+15,456	TE18	6.905.290,7542	731.307,3864	83,991
186		6.905.286,2147	731.307,1876	84,275
187		6.905.266,2708	731.305,7474	86,079
187+5,456	EC18	6.905.260,8622	731.305,0305	86,423
188		6.905.246,6206	731.302,1135	87,353

Nome	Descrição	Norte	Este	Cota
189		6.905.227,6862	731.295,7252	88,775
189+5,551	CE18	6.905.222,6101	731.293,4787	89,191
190		6.905.209,7963	731.286,8110	90,217
190+15,551	ET18	6.905.196,4106	731.278,8956	91,320
190+16,867	TE19	6.905.195,2843	731.278,2149	91,432
191		6.905.192,6019	731.276,5967	91,669
191+16,867	EC19	6.905.177,8400	731.268,4506	92,103
192		6.905.174,9900	731.267,1506	92,186
193		6.905.155,9891	731.261,0159	93,329
193+8,567	CE19	6.905.147,5474	731.259,5715	95,716
194		6.905.136,1545	731.258,6541	96,515
194+8,567	ET19	6.905.127,5922	731.258,3737	95,411
194+8,795	TE20	6.905.127,3641	731.258,3676	95,382
195		6.905.116,1648	731.258,0215	94,842
195+8,795	EC20	6.905.107,3817	731.257,5632	96,178
196		6.905.096,2236	731.256,5528	97,743
197		6.905.076,4658	731.253,4860	100,049
197+2,427	CE20	6.905.074,0873	731.253,0044	100,201
198		6.905.056,9783	731.248,9972	101,410
198+2,427	ET20	6.905.054,6242	731.248,4078	101,586
199		6.905.037,5780	731.244,1362	102,718
200		6.905.018,1778	731.239,2748	103,592
201		6.904.998,7776	731.234,4134	104,255
202		6.904.979,3775	731.229,5520	104,850
202+2,239	TE21	6.904.977,2059	731.229,0078	104,920
203		6.904.959,9458	731.224,8202	106,114
204		6.904.940,3038	731.221,0814	108,469
204+12,239	EC21	6.904.928,1381	731.219,7734	110,590
205		6.904.920,3838	731.219,4690	112,006
206		6.904.900,4367	731.220,6654	116,004
207		6.904.880,8631	731.224,6895	119,526
208		6.904.862,0618	731.231,4594	115,921
209		6.904.844,4158	731.240,8371	112,970
209+0,889	CE21	6.904.843,6640	731.241,3117	112,967
210		6.904.828,1576	731.252,4674	114,037
211		6.904.812,8046	731.265,2827	119,508
211+0,889	ET21	6.904.812,1298	731.265,8616	119,926
211+1,239	TE22	6.904.811,8641	731.266,0897	120,091
212		6.904.797,5706	731.278,2410	126,848
213		6.904.781,9673	731.290,7498	129,729
214		6.904.765,6434	731.302,2971	133,647
214+1,239	EC22	6.904.764,6017	731.302,9684	133,811
215		6.904.748,3817	731.312,3840	136,034
216		6.904.730,2577	731.320,8238	137,683
217		6.904.711,4280	731.327,5437	141,109
218		6.904.692,0556	731.332,4854	145,266
219		6.904.672,3079	731.335,6063	149,666
220		6.904.652,3557	731.336,8793	153,599
221		6.904.632,3715	731.336,2935	155,042
221+9,199	CE22	6.904.623,2167	731.335,4007	155,470
222		6.904.612,5256	731.333,8699	156,222

Nome	Descrição	Norte	Este	Cota
223		6.904.592,9166	731.329,9503	157,490
224		6.904.573,5028	731.325,1467	159,082
224+9,199	ET22	6.904.564,6061	731.322,8081	160,992
225		6.904.554,1629	731.320,0508	162,122
226		6.904.534,8256	731.314,9452	162,199
227		6.904.515,4882	731.309,8396	162,777
228		6.904.496,1509	731.304,7340	164,657
228+14,540	TE23	6.904.482,0929	731.301,0223	165,661
229		6.904.476,8110	731.299,6380	166,000
230		6.904.457,2532	731.295,5087	167,639
230+14,540	EC23	6.904.442,7565	731.294,6673	170,905
231		6.904.437,3135	731.295,0825	171,290
232		6.904.418,0725	731.300,2698	172,639
233		6.904.401,1615	731.310,8123	173,485
234		6.904.388,0329	731.325,8044	170,672
235		6.904.379,8142	731.343,9587	168,465
235+10,135	CE23	6.904.377,7676	731.353,8757	168,811
236		6.904.377,1526	731.363,7144	169,019
237		6.904.378,8383	731.383,6246	170,585
237+10,135	ET23	6.904.380,4413	731.393,6323	172,095
238		6.904.382,0627	731.403,3627	173,771
238+4,538	TE24	6.904.382,8086	731.407,8388	173,622
239		6.904.384,9436	731.423,1486	172,744
239+14,538	EC24	6.904.384,7553	731.437,6555	170,012
240		6.904.383,7268	731.443,0173	167,904
241		6.904.375,1906	731.460,9569	165,886
242		6.904.360,3422	731.474,1561	163,960
243		6.904.341,5259	731.480,5312	161,598
243+10,050	CE24	6.904.331,4961	731.480,7937	160,266
244		6.904.321,6893	731.479,1826	158,972
245		6.904.302,7807	731.472,7152	157,900
245+0,050	ET24	6.904.302,7339	731.472,6968	157,898
245+5,945	PI-25	6.904.297,2472	731.470,5413	157,000



PREFEITURA MUNICIPAL DE PAULO LOPES
SECRETARIA DE PLANEJAMENTO

3 NOTAS DE SERVIÇOS DE TERRAPLENAGEM

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
0	5,922	9,822	0,422	5,500	9,400	5,500	9,400	-2,50	9,758	9,538	0,220	5,500	9,400	-2,50	5,500	9,400	5,934	9,834	0,434
1	5,531	9,787	0,031	5,500	9,756	5,500	9,756	-2,50	9,872	9,894	-0,022	5,500	9,756	-2,50	5,500	9,756	5,568	9,824	0,068
2	5,551	10,076	0,051	5,500	10,025	5,500	10,025	-2,50	10,123	10,163	-0,040	5,500	10,025	-2,50	5,500	10,025	5,639	10,164	0,139
3	5,525	10,213	0,025	5,500	10,188	5,500	10,188	-2,50	10,270	10,325	-0,055	5,500	10,188	-2,50	5,500	10,188	5,606	10,294	0,106
4	5,564	10,307	0,064	5,500	10,243	5,500	10,243	-2,50	10,276	10,380	-0,104	5,500	10,243	-2,50	5,500	10,243	5,754	10,074	-0,169
5	5,575	10,266	0,075	5,500	10,191	5,500	10,191	-2,50	10,139	10,328	-0,189	5,500	10,191	-2,50	5,500	10,191	6,034	9,835	-0,356
6	5,707	10,246	0,207	5,500	10,039	5,500	10,039	-2,50	10,001	10,176	-0,175	5,500	10,039	-2,50	5,500	10,039	6,128	9,621	-0,418
7	5,735	10,102	0,235	5,500	9,867	5,500	9,867	-2,50	9,823	10,004	-0,181	5,500	9,867	-2,50	5,500	9,867	5,770	9,687	-0,180
8	5,612	9,806	0,112	5,500	9,694	5,500	9,694	-2,50	9,691	9,832	-0,141	5,500	9,694	-2,50	5,500	9,694	5,850	9,461	-0,233
9	5,643	9,665	0,143	5,500	9,522	5,500	9,522	-2,50	9,487	9,659	-0,172	5,500	9,522	-2,50	5,500	9,522	5,519	9,510	-0,012
10	5,655	9,247	-0,103	5,500	9,350	5,500	9,350	-2,50	9,216	9,487	-0,271	5,500	9,350	-2,50	5,500	9,350	5,867	9,106	-0,244
11	5,510	9,187	0,010	5,500	9,177	5,500	9,177	-2,50	8,959	9,315	-0,356	5,500	9,177	-2,50	5,500	9,177	6,113	8,769	-0,408
12	5,555	9,062	0,055	5,500	9,007	5,500	9,007	-2,50	8,802	9,144	-0,342	5,500	9,007	-2,50	5,500	9,007	6,144	8,577	-0,430
13	5,532	8,901	0,032	5,500	8,869	5,500	8,869	-2,50	8,624	9,007	-0,383	5,500	8,869	-2,50	5,500	8,869	6,428	8,250	-0,619
14	5,541	8,815	0,041	5,500	8,774	5,500	8,774	-2,50	8,542	8,911	-0,369	5,500	8,774	-2,50	5,500	8,774	6,512	8,099	-0,675
15	5,507	8,728	0,007	5,500	8,721	5,500	8,721	-2,50	8,553	8,859	-0,306	5,500	8,721	-2,50	5,500	8,721	6,140	8,294	-0,427
16	5,556	8,767	0,056	5,500	8,711	5,500	8,711	-2,50	8,616	8,849	-0,233	5,500	8,711	-2,50	5,500	8,711	6,239	8,218	-0,493
17	5,700	8,944	0,200	5,500	8,744	5,500	8,744	-2,50	8,653	8,881	-0,228	5,500	8,744	-2,50	5,500	8,744	6,070	8,364	-0,380
18	5,574	8,770	-0,049	5,500	8,819	5,500	8,819	-2,50	8,731	8,957	-0,226	5,500	8,819	-2,50	5,500	8,819	5,676	8,702	-0,117
19	5,669	8,822	-0,113	5,500	8,935	5,500	8,935	-2,50	8,853	9,072	-0,219	5,500	8,935	-2,50	5,500	8,935	5,826	8,718	-0,217
20	5,977	8,743	-0,318	5,500	9,061	5,500	9,061	-2,50	8,879	9,198	-0,319	5,500	9,061	-2,50	5,500	9,061	6,053	8,692	-0,369
21	6,187	8,729	-0,458	5,500	9,187	5,500	9,187	-2,50	8,874	9,324	-0,450	5,500	9,187	-2,50	5,500	9,187	6,347	8,622	-0,565
22	6,453	8,678	-0,635	5,500	9,313	5,500	9,313	-2,50	8,911	9,450	-0,539	5,500	9,313	-2,50	5,500	9,313	6,291	8,786	-0,527
23	6,470	8,792	-0,647	5,500	9,439	5,500	9,439	-2,50	8,967	9,576	-0,609	5,500	9,439	-2,50	5,500	9,439	6,209	8,966	-0,473
24	6,437	8,940	-0,624	5,500	9,564	5,500	9,564	-2,50	9,050	9,702	-0,652	5,500	9,564	-2,50	5,500	9,564	6,057	9,192	-0,372
25	6,599	8,990	-0,699	5,551	9,689	5,551	9,689	-2,50	9,224	9,828	-0,604	5,551	9,754	-1,33	5,551	9,754	6,340	9,228	-0,526
25+16,11	6,511	9,187	-0,602	5,608	9,789	5,608	9,789	-2,50	9,381	9,929	-0,548	5,608	9,929	0,00	5,608	9,929	6,347	9,436	-0,493
26	6,482	9,239	-0,574	5,622	9,813	5,622	9,813	-2,50	9,440	9,954	-0,514	5,622	9,972	0,32	5,622	9,972	6,366	9,476	-0,496
27	6,225	9,582	-0,355	5,693	9,937	5,693	9,937	-2,50	9,727	10,080	-0,353	5,693	10,192	1,97	5,693	10,192	6,407	9,716	-0,476
27+16,11	6,226	9,718	-0,317	5,750	10,035	5,750	10,035	-3,30	9,896	10,225	-0,329	5,750	10,415	3,30	5,750	10,415	6,357	10,010	-0,405
28	6,245	9,730	-0,330	5,750	10,060	5,750	10,060	-3,30	9,939	10,250	-0,311	5,750	10,439	3,30	5,750	10,439	6,285	10,082	-0,357
29	6,329	9,800	-0,386	5,750	10,186	5,750	10,186	-3,30	10,113	10,375	-0,262	5,750	10,565	3,30	5,750	10,565	6,198	10,266	-0,299
30	6,232	9,990	-0,321	5,750	10,311	5,750	10,311	-3,30	10,201	10,501	-0,300	5,750	10,690	3,30	5,750	10,690	6,170	10,410	-0,280
31	6,504	9,926	-0,502	5,750	10,428	5,750	10,428	-3,30	10,275	10,617	-0,342	5,750	10,807	3,30	5,750	10,807	6,287	10,449	-0,358
32	6,455	10,064	-0,470	5,750	10,534	5,750	10,534	-3,30	10,419	10,724	-0,305	5,750	10,913	3,30	5,750	10,913	6,412	10,472	-0,441

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
33	6,477	10,145	-0,484	5,750	10,629	5,750	10,629	-3,30	10,376	10,819	-0,443	5,750	11,009	3,30	5,750	11,009	7,091	10,115	-0,894
33+5,625	6,468	10,175	-0,479	5,750	10,654	5,750	10,654	-3,30	10,360	10,844	-0,484	5,750	11,034	3,30	5,750	11,034	7,293	10,005	-1,029
34	6,542	10,156	-0,562	5,699	10,718	5,699	10,718	-2,50	10,342	10,860	-0,518	5,699	10,981	2,11	5,699	10,981	7,300	9,914	-1,067
35	6,652	10,111	-0,683	5,628	10,794	5,628	10,794	-2,50	10,299	10,935	-0,636	5,628	10,961	0,46	5,628	10,961	7,089	9,987	-0,974
35+5,625	6,649	10,121	-0,694	5,608	10,815	5,608	10,815	-2,50	10,264	10,956	-0,692	5,608	10,956	0,00	5,608	10,956	6,973	10,046	-0,910
36	6,678	10,122	-0,747	5,557	10,869	5,557	10,869	-2,50	10,217	11,008	-0,791	5,557	10,942	-1,19	5,557	10,942	6,768	10,134	-0,808
37	6,763	10,101	-0,842	5,500	10,943	5,500	10,943	-2,50	10,266	11,081	-0,815	5,500	10,943	-2,50	5,500	10,943	6,770	10,096	-0,847
38	6,882	10,095	-0,921	5,500	11,016	5,500	11,016	-2,50	10,293	11,154	-0,861	5,500	11,016	-2,50	5,500	11,016	6,946	10,052	-0,964
39	6,885	10,166	-0,923	5,500	11,089	5,500	11,089	-2,50	10,253	11,227	-0,974	5,500	11,089	-2,50	5,500	11,089	7,015	10,079	-1,010
40	6,295	10,632	-0,530	5,500	11,162	5,500	11,162	-2,50	10,278	11,300	-1,022	5,500	11,162	-2,50	5,500	11,162	7,100	10,095	-1,067
41	6,330	10,681	-0,554	5,500	11,235	5,500	11,235	-2,50	10,381	11,373	-0,992	5,500	11,235	-2,50	5,500	11,235	7,154	10,132	-1,103
42	6,560	10,601	-0,707	5,500	11,308	5,500	11,308	-2,50	10,550	11,446	-0,896	5,500	11,308	-2,50	5,500	11,308	7,071	10,261	-1,047
43	6,130	10,961	-0,420	5,500	11,381	5,500	11,381	-2,50	10,726	11,519	-0,793	5,500	11,381	-2,50	5,500	11,381	6,955	10,411	-0,970
44	5,897	11,189	-0,265	5,500	11,454	5,500	11,454	-2,50	10,879	11,591	-0,712	5,500	11,454	-2,50	5,500	11,454	7,023	10,438	-1,016
45	5,804	11,324	-0,203	5,500	11,527	5,500	11,527	-2,50	11,014	11,664	-0,650	5,500	11,527	-2,50	5,500	11,527	6,800	10,661	-0,866
46	5,777	11,415	-0,185	5,500	11,600	5,500	11,600	-2,50	11,154	11,737	-0,583	5,500	11,600	-2,50	5,500	11,600	6,728	10,781	-0,819
47	5,789	11,480	-0,193	5,500	11,673	5,500	11,673	-2,50	11,231	11,810	-0,579	5,500	11,673	-2,50	5,500	11,673	6,523	10,991	-0,682
48	5,906	11,468	-0,271	5,500	11,739	5,500	11,739	-2,50	11,347	11,877	-0,530	5,500	11,739	-2,50	5,500	11,739	6,508	11,067	-0,672
49	5,954	11,463	-0,303	5,500	11,766	5,500	11,766	-2,50	11,460	11,903	-0,443	5,500	11,766	-2,50	5,500	11,766	6,085	11,376	-0,390
50	5,961	11,442	-0,307	5,500	11,749	5,500	11,749	-2,50	11,427	11,886	-0,459	5,500	11,749	-2,50	5,500	11,749	6,317	11,204	-0,545
51	5,985	11,363	-0,324	5,500	11,687	5,500	11,687	-2,50	11,297	11,825	-0,528	5,500	11,687	-2,50	5,500	11,687	6,346	11,123	-0,564
52	6,751	10,783	-0,798	5,553	11,581	5,553	11,581	-2,50	11,196	11,719	-0,523	5,553	11,637	-1,48	5,553	11,637	6,338	11,114	-0,523
52+14,13	7,212	10,425	-1,054	5,631	11,479	5,631	11,479	-2,50	11,138	11,620	-0,482	5,631	11,620	0,00	5,631	11,620	6,341	11,146	-0,474
53	7,037	10,519	-0,916	5,663	11,435	5,663	11,435	-2,50	11,122	11,577	-0,455	5,663	11,612	0,62	5,663	11,612	6,354	11,151	-0,461
54	7,316	10,256	-1,029	5,773	11,285	5,773	11,285	-2,72	11,063	11,441	-0,378	5,773	11,598	2,72	5,773	11,598	6,385	11,190	-0,408
54+14,13	8,095	9,677	-1,496	5,850	11,173	5,850	11,173	-4,20	10,974	11,419	-0,445	5,850	11,665	4,20	5,850	11,665	6,382	11,311	-0,354
55	8,031	9,676	-1,454	5,850	11,130	5,850	11,130	-4,20	10,952	11,376	-0,424	5,850	11,622	4,20	5,850	11,622	6,348	11,290	-0,332
56	7,693	9,755	-1,228	5,850	10,983	5,850	10,983	-4,20	10,834	11,229	-0,395	5,850	11,474	4,20	5,850	11,474	6,359	11,135	-0,339
57	5,969	10,757	-0,079	5,850	10,836	5,850	10,836	-4,20	11,012	11,081	-0,069	5,850	11,327	4,20	5,850	11,327	6,194	11,098	-0,229
57+16,71	6,312	11,175	0,462	5,850	10,713	5,850	10,713	-4,20	10,903	10,958	-0,055	5,850	11,204	4,20	5,850	11,204	6,390	10,844	-0,360
58	6,348	11,206	0,516	5,832	10,690	5,832	10,690	-3,86	10,838	10,915	-0,077	5,832	11,140	3,86	5,832	11,140	6,513	10,686	-0,454
59	6,711	11,539	0,989	5,722	10,550	5,722	10,550	-2,50	10,238	10,693	-0,455	5,722	10,794	1,76	5,722	10,794	5,795	10,746	-0,048
59+16,71	6,867	11,667	1,237	5,631	10,430	5,631	10,430	-2,50	9,822	10,570	-0,748	5,631	10,570	0,00	5,631	10,570	5,777	10,717	0,147
60	6,850	11,644	1,238	5,613	10,406	5,613	10,406	-2,50	9,766	10,546	-0,780	5,613	10,527	-0,34	5,613	10,527	5,686	10,600	0,073
61	7,057	9,225	-1,036	5,503	10,261	5,503	10,261	-2,50	9,327	10,399	-1,072	5,503	10,264	-2,44	5,503	10,264	8,675	8,149	-2,115

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
62	8,829	7,895	-2,219	5,500	10,114	5,500	10,114	-2,50	9,183	10,252	-1,069	5,500	10,114	-2,50	5,500	10,114	9,477	7,463	-2,651
63	6,690	9,174	-0,793	5,500	9,967	5,500	9,967	-2,50	9,353	10,105	-0,752	5,500	9,967	-2,50	5,500	9,967	5,966	9,656	-0,311
64	5,501	9,819	-0,001	5,500	9,820	5,500	9,820	-2,50	9,766	9,957	-0,191	5,500	9,820	-2,50	5,500	9,820	6,479	10,799	0,979
65	5,925	10,098	0,425	5,500	9,673	5,500	9,673	-2,50	10,036	9,810	0,226	5,500	9,673	-2,50	5,500	9,673	6,706	10,879	1,206
66	5,958	9,983	0,458	5,500	9,525	5,500	9,525	-2,50	9,863	9,663	0,200	5,500	9,525	-2,50	5,500	9,525	6,807	10,832	1,307
66+0,263	5,956	9,979	0,456	5,500	9,523	5,500	9,523	-2,50	9,857	9,661	0,196	5,500	9,523	-2,50	5,500	9,523	6,807	10,830	1,307
67	5,705	9,610	0,205	5,500	9,405	5,500	9,405	-2,50	9,382	9,542	-0,160	5,500	9,405	-2,50	5,500	9,405	6,660	10,565	1,160
68	6,075	9,005	-0,383	5,500	9,388	5,500	9,388	-2,50	8,855	9,525	-0,670	5,500	9,388	-2,50	5,500	9,388	5,578	9,466	0,078
69	7,049	8,446	-1,033	5,500	9,479	5,500	9,479	-2,50	8,332	9,616	-1,284	5,500	9,479	-2,50	5,500	9,479	6,428	8,860	-0,619
70	8,338	7,787	-1,892	5,500	9,679	5,500	9,679	-2,50	7,652	9,816	-2,164	5,500	9,679	-2,50	5,500	9,679	7,023	8,663	-1,016
71	10,451	6,686	-3,301	5,500	9,987	5,500	9,987	-2,50	7,066	10,124	-3,058	5,500	9,987	-2,50	5,500	9,987	10,330	6,767	-3,220
71+4,311	10,694	6,605	-3,462	5,500	10,067	5,500	10,067	-2,50	7,001	10,205	-3,204	5,500	10,067	-2,50	5,500	10,067	10,738	6,575	-3,492
72	13,426	5,119	-5,284	5,500	10,403	5,500	10,403	-2,50	6,856	10,541	-3,685	5,500	10,403	-2,50	5,500	10,403	11,314	6,527	-3,876
73	10,759	7,422	-3,506	5,500	10,928	5,500	10,928	-2,50	7,251	11,066	-3,815	5,500	10,928	-2,50	5,500	10,928	11,025	7,245	-3,683
74	8,260	9,722	-1,840	5,500	11,562	5,500	11,562	-2,50	8,403	11,699	-3,296	5,500	11,562	-2,50	5,500	11,562	11,226	7,744	-3,818
75	6,692	11,508	-0,795	5,500	12,303	5,500	12,303	-2,50	10,165	12,441	-2,276	5,500	12,303	-2,50	5,500	12,303	9,887	9,378	-2,925
76	6,028	12,773	-0,352	5,500	13,125	5,500	13,125	-2,50	12,119	13,262	-1,143	5,500	13,125	-2,50	5,500	13,125	8,720	10,978	-2,147
77	5,599	13,947	0,099	5,500	13,848	5,500	13,848	-2,50	14,166	13,985	0,181	5,500	13,848	-2,50	5,500	13,848	6,187	13,390	-0,458
78	8,454	17,361	2,950	5,505	14,411	5,505	14,411	-2,50	16,336	14,549	1,787	5,505	14,417	-2,40	5,505	14,417	7,700	16,612	2,195
79	9,309	18,524	3,710	5,599	14,814	5,599	14,814	-2,50	18,442	14,954	3,488	5,599	14,937	-0,30	5,599	14,937	12,273	21,611	6,674
79+2,813	9,591	18,836	3,979	5,612	14,857	5,612	14,857	-2,50	18,720	14,998	3,722	5,612	14,998	0,00	5,612	14,998	12,816	22,202	7,204
80	17,181	23,982	8,926	5,693	15,056	5,693	15,056	-2,50	19,694	15,199	4,495	5,693	15,301	1,80	5,693	15,301	17,684	24,730	9,429
81	17,999	24,786	9,650	5,787	15,136	5,787	15,136	-3,90	19,861	15,362	4,499	5,787	15,588	3,90	5,787	15,588	19,420	26,659	11,071
81+2,813	17,364	24,136	9,002	5,800	15,134	5,800	15,134	-4,20	19,780	15,377	4,403	5,800	15,621	4,20	5,800	15,621	19,609	26,868	11,247
82	12,730	21,991	6,930	5,800	15,061	5,800	15,061	-4,20	19,065	15,304	3,761	5,800	15,548	4,20	5,800	15,548	9,904	19,652	4,104
83	8,733	17,761	2,933	5,800	14,828	5,800	14,828	-4,20	17,654	15,072	2,582	5,800	15,315	4,20	5,800	15,315	9,803	19,318	4,003
84	6,639	15,275	0,839	5,800	14,436	5,800	14,436	-4,20	15,559	14,679	0,880	5,800	14,923	4,20	5,800	14,923	8,556	17,679	2,756
84+15,41	6,345	13,661	-0,364	5,800	14,025	5,800	14,025	-4,20	14,033	14,268	-0,235	5,800	14,512	4,20	5,800	14,512	6,736	15,448	0,936
85	6,690	13,278	-0,608	5,778	13,886	5,778	13,886	-3,72	13,584	14,101	-0,517	5,778	14,316	3,72	5,778	14,316	6,339	14,876	0,560
86	8,590	11,244	-1,937	5,684	13,181	5,684	13,181	-2,50	11,744	13,323	-1,579	5,684	13,415	1,62	5,684	13,415	6,927	12,587	-0,828
86+15,41	10,409	9,361	-3,198	5,612	12,559	5,612	12,559	-2,50	10,652	12,699	-2,047	5,612	12,699	0,00	5,612	12,699	7,824	11,224	-1,475
87	11,041	8,757	-3,634	5,590	12,391	5,590	12,391	-2,50	10,412	12,531	-2,119	5,590	12,504	-0,48	5,590	12,504	7,640	11,138	-1,366
88	11,824	7,584	-4,216	5,500	11,800	5,500	11,800	-2,50	9,541	11,937	-2,396	5,500	11,800	-2,50	5,500	11,800	8,380	9,880	-1,920
89	12,723	6,625	-4,804	5,518	11,429	5,518	11,429	-2,50	8,836	11,567	-2,731	5,518	11,448	-2,16	5,518	11,448	9,024	9,111	-2,337
90	11,185	7,576	-3,704	5,628	11,280	5,628	11,280	-2,50	8,327	11,420	-3,093	5,628	11,417	-0,06	5,628	11,417	12,247	7,004	-4,413

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
90+0,570	11,153	7,597	-3,682	5,631	11,279	5,631	11,279	-2,50	8,318	11,419	-3,101	5,631	11,419	0,00	5,631	11,419	12,273	6,991	-4,428
91	10,479	8,193	-3,161	5,737	11,354	5,737	11,354	-2,50	8,394	11,497	-3,103	5,737	11,614	2,04	5,737	11,614	10,827	8,221	-3,393
92	7,705	10,406	-1,239	5,847	11,645	5,847	11,645	-4,14	9,521	11,888	-2,367	5,847	12,130	4,14	5,847	12,130	9,276	9,844	-2,286
92+0,570	7,654	10,454	-1,203	5,850	11,657	5,850	11,657	-4,20	9,562	11,903	-2,341	5,850	12,148	4,20	5,850	12,148	9,290	9,855	-2,293
93	6,055	12,374	0,205	5,850	12,169	5,850	12,169	-4,20	11,510	12,415	-0,905	5,850	12,660	4,20	5,850	12,660	7,224	11,744	-0,916
94	7,418	14,465	1,568	5,850	12,897	5,850	12,897	-4,20	13,509	13,143	0,366	5,850	13,389	4,20	5,850	13,389	6,002	13,541	0,152
95	6,974	14,678	1,124	5,850	13,554	5,850	13,554	-4,20	14,498	13,800	0,698	5,850	14,046	4,20	5,850	14,046	8,959	17,155	3,109
96	6,649	14,845	0,799	5,850	14,046	5,850	14,046	-4,20	16,781	14,291	2,490	5,850	14,537	4,20	5,850	14,537	9,627	18,314	3,777
97	6,425	14,946	0,575	5,850	14,371	5,850	14,371	-4,20	17,009	14,616	2,393	5,850	14,862	4,20	5,850	14,862	8,966	17,978	3,116
98	6,639	15,319	0,789	5,850	14,530	5,850	14,530	-4,20	17,556	14,776	2,780	5,850	15,021	4,20	5,850	15,021	8,079	17,250	2,229
99	7,209	15,882	1,359	5,850	14,523	5,850	14,523	-4,20	18,141	14,769	3,372	5,850	15,014	4,20	5,850	15,014	10,575	19,739	4,725
100	7,227	15,727	1,377	5,850	14,350	5,850	14,350	-4,20	16,001	14,596	1,405	5,850	14,841	4,20	5,850	14,841	8,908	17,899	3,058
100+8,48	7,093	15,469	1,243	5,850	14,226	5,850	14,226	-4,20	15,959	14,472	1,487	5,850	14,718	4,20	5,850	14,718	8,555	17,423	2,705
101	6,443	14,709	0,691	5,752	14,018	5,752	14,018	-3,02	14,693	14,192	0,501	5,752	14,365	3,02	5,752	14,365	6,261	14,875	0,510
102	10,224	10,425	-3,095	5,581	13,520	5,581	13,520	-0,97	12,349	13,574	-1,225	5,581	13,628	0,97	5,581	13,628	6,824	12,799	-0,829
102+8,48	13,193	8,133	-5,123	5,508	13,256	5,508	13,256	-0,10	11,609	13,262	-1,653	5,508	13,267	0,10	5,508	13,267	6,482	12,618	-0,649
102+10,6	13,954	7,573	-5,628	5,511	13,201	5,511	13,201	0,14	11,411	13,193	-1,782	5,511	13,186	-0,14	5,511	13,186	6,515	12,517	-0,669
103	17,022	5,379	-7,613	5,603	12,992	5,603	12,992	1,28	10,505	12,920	-2,415	5,603	12,848	-1,28	5,603	12,848	6,491	12,256	-0,592
104	18,061	4,301	-8,176	5,797	12,477	5,797	12,477	3,71	9,369	12,262	-2,893	5,797	12,047	-3,71	5,797	12,047	6,706	11,441	-0,606
104+10,6	17,888	4,232	-7,992	5,900	12,224	5,900	12,224	5,00	9,127	11,929	-2,802	5,900	11,634	-5,00	5,900	11,634	6,732	11,080	-0,554
105	17,407	4,213	-7,671	5,900	11,884	5,900	11,884	5,00	8,894	11,589	-2,695	5,900	11,294	-5,00	5,900	11,294	6,784	10,705	-0,589
106	18,409	2,878	-8,339	5,900	11,217	5,900	11,217	5,00	8,433	10,922	-2,489	5,900	10,627	-5,00	5,900	10,627	7,573	9,512	-1,115
107	17,238	3,068	-7,558	5,900	10,626	5,900	10,626	5,00	8,047	10,331	-2,284	5,900	10,036	-5,00	5,900	10,036	7,882	8,715	-1,321
108	16,302	3,176	-6,935	5,900	10,111	5,900	10,111	5,00	7,403	9,816	-2,413	5,900	9,521	-5,00	5,900	9,521	7,653	8,353	-1,168
109	16,176	2,822	-6,851	5,900	9,673	5,900	9,673	5,00	6,693	9,378	-2,685	5,900	9,083	-5,00	5,900	9,083	6,789	8,490	-0,593
110	15,378	2,990	-6,318	5,900	9,308	5,900	9,308	5,00	6,176	9,013	-2,837	5,900	8,718	-5,00	5,900	8,718	5,940	8,691	-0,027
111	11,926	4,947	-4,017	5,900	8,964	5,900	8,964	5,00	8,986	8,669	0,317	5,900	8,374	-5,00	5,900	8,374	7,374	9,848	1,474
112	6,832	9,552	0,932	5,900	8,620	5,900	8,620	5,00	10,200	8,325	1,875	5,900	8,030	-5,00	5,900	8,030	11,156	13,286	5,256
112+15,7	7,090	9,539	1,190	5,900	8,349	5,900	8,349	5,00	9,617	8,054	1,563	5,900	7,759	-5,00	5,900	7,759	11,266	13,125	5,366
113	6,918	9,279	1,052	5,866	8,227	5,866	8,227	4,58	9,420	7,958	1,462	5,866	7,690	-4,58	5,866	7,690	10,974	12,798	5,108
114	5,777	7,631	-0,047	5,707	7,678	5,707	7,678	2,58	8,183	7,531	0,652	5,707	7,384	-2,58	5,707	7,384	8,567	10,245	2,861
114+15,7	6,657	6,589	-0,718	5,581	7,307	5,581	7,307	1,01	7,255	7,251	0,004	5,581	7,194	-1,01	5,581	7,194	6,515	8,129	0,935
115	6,857	6,344	-0,873	5,547	7,217	5,547	7,217	0,59	7,030	7,184	-0,154	5,547	7,152	-0,59	5,547	7,152	5,695	7,300	0,148
115+14,5	6,402	6,471	-0,560	5,562	7,031	5,562	7,031	-0,77	6,714	7,073	-0,359	5,562	7,116	0,77	5,562	7,116	7,537	5,800	-1,316
116	6,234	6,574	-0,422	5,602	6,996	5,602	6,996	-1,25	6,612	7,066	-0,454	5,602	7,136	1,25	5,602	7,136	6,705	6,400	-0,736

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
117	6,346	6,516	-0,401	5,745	6,917	5,745	6,917	-3,01	6,691	7,090	-0,399	5,745	7,263	3,01	5,745	7,263	6,524	6,744	-0,519
117+14,5	6,037	6,783	-0,125	5,850	6,908	5,850	6,908	-4,30	6,918	7,159	-0,241	5,850	7,411	4,30	5,850	7,411	6,608	8,169	0,758
118	6,031	6,797	-0,121	5,850	6,918	5,850	6,918	-4,30	6,987	7,170	-0,183	5,850	7,422	4,30	5,850	7,422	6,917	8,489	1,067
119	6,142	7,275	0,291	5,850	6,984	5,850	6,984	-4,30	7,061	7,235	-0,174	5,850	7,487	4,30	5,850	7,487	6,001	7,638	0,151
120	6,158	7,338	0,308	5,850	7,030	5,850	7,030	-4,30	6,902	7,282	-0,380	5,850	7,534	4,30	5,850	7,534	6,426	7,150	-0,384
121	6,548	6,557	-0,466	5,850	7,023	5,850	7,023	-4,30	6,774	7,274	-0,500	5,850	7,526	4,30	5,850	7,526	6,517	7,082	-0,444
121+3,16	6,860	6,344	-0,673	5,850	7,017	5,850	7,017	-4,30	6,777	7,268	-0,491	5,850	7,520	4,30	5,850	7,520	6,518	7,075	-0,445
122	5,757	7,021	0,051	5,707	6,970	5,707	6,970	-2,54	6,958	7,115	-0,157	5,707	7,260	2,54	5,707	7,260	5,845	7,168	-0,092
123	5,807	7,129	0,271	5,536	6,858	5,536	6,858	-0,44	6,904	6,882	0,022	5,536	6,907	0,44	5,536	6,907	5,770	7,141	0,234
123+3,16	5,757	7,082	0,248	5,509	6,834	5,509	6,834	-0,11	6,855	6,840	0,015	5,509	6,846	0,11	5,509	6,846	5,683	7,020	0,174
123+5,45	5,657	6,979	0,141	5,516	6,838	5,516	6,838	0,20	6,804	6,827	-0,023	5,516	6,816	-0,20	5,516	6,816	5,637	6,937	0,121
124	6,974	6,120	-0,848	5,702	6,968	5,702	6,968	2,53	6,306	6,824	-0,518	5,702	6,680	-2,53	5,702	6,680	6,206	7,184	0,504
124+15,4	8,904	5,094	-2,003	5,900	7,097	5,900	7,097	5,00	5,908	6,802	-0,894	5,900	6,507	-5,00	5,900	6,507	6,369	6,976	0,469
125	9,225	4,840	-2,217	5,900	7,057	5,900	7,057	5,00	5,797	6,762	-0,965	5,900	6,467	-5,00	5,900	6,467	6,360	6,927	0,460
126	9,329	4,644	-2,286	5,900	6,930	5,900	6,930	5,00	5,593	6,635	-1,042	5,900	6,340	-5,00	5,900	6,340	6,623	5,858	-0,482
126+9,17	9,332	4,612	-2,288	5,900	6,900	5,900	6,900	5,00	5,584	6,605	-1,021	5,900	6,310	-5,00	5,900	6,310	6,683	5,788	-0,522
127	8,869	4,651	-2,060	5,779	6,711	5,779	6,711	3,48	5,599	6,510	-0,911	5,779	6,309	-3,48	5,779	6,309	6,506	5,824	-0,485
127+19,1	8,463	4,514	-1,933	5,564	6,447	5,564	6,447	0,80	5,778	6,402	-0,624	5,564	6,358	-0,80	5,564	6,358	5,903	6,132	-0,226
128	8,433	4,518	-1,919	5,555	6,437	5,555	6,437	0,69	5,784	6,399	-0,615	5,555	6,361	-0,69	5,555	6,361	5,893	6,136	-0,225
128+13,8	8,442	4,546	-1,894	5,600	6,440	5,600	6,440	-1,42	5,880	6,520	-0,640	5,600	6,599	1,42	5,600	6,599	6,172	6,218	-0,381
129	8,253	4,764	-1,722	5,670	6,486	5,670	6,486	-2,41	5,889	6,623	-0,734	5,670	6,759	2,41	5,670	6,759	6,413	6,264	-0,495
130	8,216	5,125	-1,548	5,895	6,673	5,895	6,673	-5,60	5,877	7,003	-1,126	5,895	7,333	5,60	5,895	7,333	7,703	6,127	-1,206
130+13,8	10,291	3,970	-2,827	6,050	6,797	6,050	6,797	-7,80	5,960	7,269	-1,309	6,050	7,741	7,80	6,050	7,741	7,990	6,448	-1,293
131	8,590	5,159	-1,693	6,050	6,852	6,050	6,852	-7,80	6,625	7,324	-0,699	6,050	7,796	7,80	6,050	7,796	7,526	6,812	-0,984
132	6,797	6,487	-0,498	6,050	6,985	6,050	6,985	-7,80	8,571	7,457	1,114	6,050	7,929	7,80	6,050	7,929	6,557	8,436	0,507
133	6,482	7,479	0,432	6,050	7,047	6,050	7,047	-7,80	9,261	7,519	1,742	6,050	7,990	7,80	6,050	7,990	6,695	8,635	0,645
133+9,58	6,875	6,501	-0,550	6,050	7,051	6,050	7,051	-7,80	7,966	7,523	0,443	6,050	7,995	7,80	6,050	7,995	6,763	7,520	-0,475
134	8,675	5,212	-1,844	5,909	7,056	5,909	7,056	-5,80	6,674	7,399	-0,725	5,909	7,742	5,80	5,909	7,742	6,806	7,144	-0,598
135	7,249	5,923	-1,073	5,639	6,996	5,639	6,996	-1,97	6,671	7,107	-0,436	5,639	7,218	1,97	5,639	7,218	6,241	6,816	-0,402
135+9,58	7,343	5,711	-1,223	5,509	6,934	5,509	6,934	-0,13	6,501	6,942	-0,441	5,509	6,949	0,13	5,509	6,949	5,554	6,993	0,044
135+10,5	7,322	5,715	-1,214	5,502	6,929	5,502	6,929	0,02	6,506	6,928	-0,422	5,502	6,927	-0,02	5,502	6,927	5,583	7,008	0,081
136	6,854	6,059	-0,862	5,561	6,921	5,561	6,921	0,68	6,460	6,883	-0,423	5,561	6,846	-0,68	5,561	6,846	5,666	6,776	-0,070
137	7,190	5,867	-1,003	5,685	6,870	5,685	6,870	2,07	6,203	6,753	-0,550	5,685	6,635	-2,07	5,685	6,635	5,771	6,577	-0,058
137+10,5	8,866	4,766	-2,077	5,750	6,843	5,750	6,843	2,80	6,017	6,682	-0,665	5,750	6,521	-2,80	5,750	6,521	6,653	5,919	-0,602
138	8,971	4,632	-2,147	5,750	6,779	5,750	6,779	2,80	5,943	6,618	-0,675	5,750	6,457	-2,80	5,750	6,457	6,343	6,061	-0,396

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
139	9,195	4,585	-2,297	5,750	6,882	5,750	6,882	2,80	6,104	6,721	-0,617	5,750	6,560	-2,80	5,750	6,560	6,236	6,236	-0,324
140	9,307	4,941	-2,371	5,750	7,312	5,750	7,312	2,80	6,280	7,151	-0,871	5,750	6,990	-2,80	5,750	6,990	6,404	6,554	-0,436
141	9,363	5,658	-2,409	5,750	8,067	5,750	8,067	2,80	7,702	7,906	-0,204	5,750	7,745	-2,80	5,750	7,745	6,994	6,915	-0,830
142	9,313	6,773	-2,375	5,750	9,148	5,750	9,148	2,80	8,990	8,987	0,003	5,750	8,826	-2,80	5,750	8,826	6,796	8,128	-0,698
143	9,120	8,307	-2,247	5,750	10,554	5,750	10,554	2,80	9,178	10,393	-1,215	5,750	10,232	-2,80	5,750	10,232	6,976	9,415	-0,817
144	9,766	9,609	-2,677	5,750	12,286	5,750	12,286	2,80	11,039	12,125	-1,086	5,750	11,964	-2,80	5,750	11,964	6,279	11,612	-0,352
145	7,337	13,285	-1,058	5,750	14,343	5,750	14,343	2,80	13,725	14,182	-0,457	5,750	14,021	-2,80	5,750	14,021	6,577	14,848	0,827
146	5,885	16,601	-0,090	5,750	16,691	5,750	16,691	2,80	16,578	16,530	0,048	5,750	16,369	-2,80	5,750	16,369	8,385	19,004	2,635
146+0,25	5,873	16,639	-0,082	5,750	16,721	5,750	16,721	2,80	16,617	16,560	0,057	5,750	16,399	-2,80	5,750	16,399	8,405	19,053	2,654
147	6,333	19,635	0,702	5,631	18,933	5,631	18,933	1,47	19,612	18,851	0,761	5,631	18,768	-1,47	5,631	18,768	8,791	21,929	3,161
148	6,429	22,096	0,919	5,510	21,177	5,510	21,177	0,11	22,181	21,170	1,011	5,510	21,164	-0,11	5,510	21,164	9,517	25,171	4,007
148+0,25	6,399	22,095	0,890	5,509	21,205	5,509	21,205	0,10	22,210	21,200	1,010	5,509	21,194	-0,10	5,509	21,194	9,534	25,220	4,026
148+2,95	6,422	22,235	0,722	5,700	21,513	5,700	21,513	-2,50	22,469	21,656	0,813	5,700	21,798	2,50	5,700	21,798	9,247	25,345	3,547
149	6,006	23,859	0,306	5,700	23,553	5,700	23,553	-2,50	24,065	23,696	0,369	5,700	23,838	2,50	5,700	23,838	7,816	25,954	2,116
150	5,741	25,988	0,041	5,700	25,947	5,700	25,947	-2,50	26,236	26,090	0,146	5,700	26,232	2,50	5,700	26,232	6,891	27,423	1,191
150+17,7	5,794	28,075	0,094	5,700	27,981	5,700	27,981	-2,50	28,316	28,124	0,192	5,700	28,266	2,50	5,700	28,266	6,625	29,191	0,925
151	5,709	28,431	0,206	5,503	28,225	5,503	28,225	0,02	28,582	28,224	0,358	5,503	28,223	-0,02	5,503	28,223	6,748	29,468	1,245
151+1,50	5,755	28,624	0,232	5,523	28,392	5,523	28,392	0,16	28,756	28,383	0,373	5,523	28,375	-0,16	5,523	28,375	6,787	29,639	1,264
152	6,634	31,068	0,855	5,779	30,213	5,779	30,213	1,86	30,682	30,106	0,576	5,779	29,998	-1,86	5,779	29,998	7,657	31,876	1,878
152+1,50	6,669	31,211	0,869	5,800	30,342	5,800	30,342	2,00	30,775	30,226	0,549	5,800	30,110	-2,00	5,800	30,110	7,890	32,200	2,090
153	6,251	31,944	0,450	5,800	31,494	5,800	31,494	2,00	31,798	31,378	0,420	5,800	31,262	-2,00	5,800	31,262	8,508	33,970	2,708
153+2,64	6,253	32,076	0,453	5,800	31,623	5,800	31,623	2,00	31,896	31,507	0,389	5,800	31,391	-2,00	5,800	31,391	8,279	33,870	2,479
154	5,993	32,740	0,453	5,540	32,287	5,540	32,287	2,43	32,482	32,152	0,330	5,540	32,017	-2,43	5,540	32,017	7,191	33,667	1,650
154+2,64	5,957	32,810	0,456	5,501	32,354	5,501	32,354	2,50	32,552	32,217	0,335	5,501	32,079	-2,50	5,501	32,079	7,091	33,670	1,591
154+2,89	5,962	32,817	0,454	5,508	32,363	5,508	32,363	2,53	32,558	32,224	0,334	5,508	32,084	-2,53	5,508	32,084	7,097	33,673	1,589
155	6,281	32,967	0,036	6,245	32,931	6,245	32,931	5,65	32,702	32,578	0,124	6,245	32,225	-5,65	6,245	32,225	7,869	33,849	1,624
155+12,8	8,025	32,649	-0,817	6,800	33,466	6,800	33,466	8,00	32,423	32,922	-0,499	6,800	32,378	-8,00	6,800	32,378	7,137	32,715	0,337
156	9,349	31,988	-1,699	6,800	33,687	6,800	33,687	8,00	32,393	33,143	-0,750	6,800	32,599	-8,00	6,800	32,599	7,031	32,830	0,231
157	10,006	32,565	-2,137	6,800	34,702	6,800	34,702	8,00	34,595	34,158	0,437	6,800	33,614	-8,00	6,800	33,614	8,791	35,605	1,991
158	7,678	35,711	-0,585	6,800	36,296	6,800	36,296	8,00	35,669	35,752	-0,083	6,800	35,208	-8,00	6,800	35,208	8,656	37,064	1,856
159	8,084	39,748	1,284	6,800	38,464	6,800	38,464	8,00	39,148	37,920	1,228	6,800	37,376	-8,00	6,800	37,376	9,084	39,660	2,284
159+12,1	9,123	42,242	2,323	6,800	39,919	6,800	39,919	8,00	41,339	39,375	1,964	6,800	38,831	-8,00	6,800	38,831	9,423	41,454	2,623
160	8,271	42,377	1,752	6,519	40,625	6,519	40,625	6,27	41,939	40,216	1,723	6,519	39,808	-6,27	6,519	39,808	8,611	41,901	2,093
161	7,558	44,230	1,759	5,800	42,471	5,800	42,471	1,84	43,785	42,364	1,421	5,800	42,257	-1,84	5,800	42,257	7,280	43,738	1,481
161+2,16	7,607	44,560	1,885	5,722	42,675	5,722	42,675	1,36	44,008	42,597	1,411	5,722	42,519	-1,36	5,722	42,519	7,167	43,965	1,446

Estaca	Lado Esquerdo									Eixo			Lado Direito						
	Offset			Lateral		Bordo				Cota	Cota	Cota	Bordo			Lateral		Offset	
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
161+10,4	7,820	45,821	2,303	5,517	43,518	5,517	43,518	-0,19	44,866	43,528	1,338	5,517	43,538	0,19	5,517	43,538	6,735	44,756	1,218
162	7,702	46,765	2,111	5,591	44,654	5,591	44,654	-1,02	45,898	44,710	1,188	5,591	44,767	1,02	5,591	44,767	6,827	46,003	1,236
163	7,464	48,757	1,718	5,746	47,039	5,746	47,039	-2,76	47,983	47,198	0,785	5,746	47,356	2,76	5,746	47,356	6,798	48,407	1,051
163+0,49	7,480	48,828	1,730	5,750	47,098	5,750	47,098	-2,80	48,030	47,259	0,771	5,750	47,420	2,80	5,750	47,420	6,819	48,489	1,069
164	7,183	50,864	1,433	5,750	49,431	5,750	49,431	-2,80	50,162	49,592	0,570	5,750	49,753	2,80	5,750	49,753	6,581	50,584	0,831
165	6,084	52,110	0,334	5,750	51,776	5,750	51,776	-2,80	52,124	51,937	0,187	5,750	52,098	2,80	5,750	52,098	6,086	52,434	0,336
166	6,458	53,527	-0,472	5,750	53,999	5,750	53,999	-2,80	54,007	54,160	-0,153	5,750	54,321	2,80	5,750	54,321	6,066	54,637	0,316
166+1,97	6,597	53,647	-0,565	5,750	54,212	5,750	54,212	-2,80	54,187	54,373	-0,186	5,750	54,534	2,80	5,750	54,534	6,050	54,834	0,300
167	5,840	55,972	-0,130	5,645	56,102	5,645	56,102	-2,67	56,280	56,253	0,027	5,645	56,404	2,67	5,645	56,404	5,914	56,224	-0,180
167+11,9	5,735	57,196	-0,107	5,575	57,303	5,575	57,303	-2,59	57,496	57,448	0,048	5,575	57,592	2,59	5,575	57,592	6,083	58,101	0,509
168	5,580	58,048	-0,035	5,528	58,083	5,528	58,083	-2,53	58,288	58,223	0,065	5,528	58,363	2,53	5,528	58,363	5,699	58,534	0,171
169	7,454	58,703	-1,231	5,608	59,934	5,608	59,934	-3,39	59,991	60,124	-0,133	5,608	60,314	3,39	5,608	60,314	5,921	60,627	0,313
169+11,1	7,715	59,562	-1,352	5,687	60,914	5,687	60,914	-4,05	60,833	61,144	-0,311	5,687	61,374	4,05	5,687	61,374	5,741	61,339	-0,035
170	7,156	60,719	-0,938	5,750	61,657	5,750	61,657	-4,56	61,541	61,919	-0,378	5,750	62,182	4,56	5,750	62,182	6,095	61,952	-0,230
171	6,139	63,501	0,247	5,892	63,254	5,892	63,254	-5,73	63,393	63,592	-0,199	5,892	63,929	5,73	5,892	63,929	6,342	64,380	0,451
171+1,19	6,320	63,765	0,420	5,900	63,345	5,900	63,345	-5,80	63,497	63,687	-0,190	5,900	64,030	5,80	5,900	64,030	6,337	64,467	0,437
172	7,954	66,792	2,054	5,900	64,738	5,900	64,738	-5,80	64,915	65,080	-0,165	5,900	65,423	5,80	5,900	65,423	6,629	64,937	-0,486
172+15,8	9,176	69,130	3,276	5,900	65,854	5,900	65,854	-5,80	66,783	66,197	0,586	5,900	66,539	5,80	5,900	66,539	6,196	66,342	-0,197
173	9,722	70,026	3,874	5,848	66,152	5,848	66,152	-5,04	68,316	66,447	1,869	5,848	66,741	5,04	5,848	66,741	5,893	66,711	-0,030
174	12,002	73,982	6,407	5,595	67,575	5,595	67,575	-1,38	71,645	67,652	3,993	5,595	67,730	1,38	5,595	67,730	6,273	68,407	0,677
174+5,85	12,549	75,015	7,027	5,521	67,988	5,521	67,988	-0,31	72,317	68,005	4,312	5,521	68,022	0,31	5,521	68,022	6,448	68,949	0,927
174+9,84	12,786	75,582	7,250	5,536	68,332	5,536	68,332	0,57	72,777	68,301	4,476	5,536	68,269	-0,57	5,536	68,269	6,605	69,338	1,069
175	13,388	77,024	7,695	5,693	69,329	5,693	69,329	3,09	73,279	69,153	4,126	5,693	68,978	-3,09	5,693	68,978	6,754	70,039	1,061
175+19,8	19,550	82,288	10,988	6,000	71,300	6,000	71,300	8,00	73,307	70,820	2,487	6,000	70,340	-8,00	6,000	70,340	6,613	70,952	0,612
176	19,854	82,603	11,292	6,000	71,311	6,000	71,311	8,00	73,291	70,831	2,460	6,000	70,351	-8,00	6,000	70,351	6,606	70,957	0,606
177	8,567	75,285	2,567	6,000	72,718	6,000	72,718	8,00	71,668	72,238	-0,570	6,000	71,758	-8,00	6,000	71,758	6,627	71,340	-0,418
178	19,176	84,739	10,614	6,000	74,125	6,000	74,125	8,00	72,531	73,645	-1,114	6,000	73,165	-8,00	6,000	73,165	7,533	72,143	-1,022
178+13,3	20,296	86,798	11,734	6,000	75,064	6,000	75,064	8,00	74,855	74,584	0,271	6,000	74,104	-8,00	6,000	74,104	6,899	73,504	-0,600
179	20,144	87,015	11,692	5,890	75,323	5,890	75,323	6,24	76,289	74,955	1,334	5,890	74,588	-6,24	5,890	74,588	6,409	74,242	-0,346
180	19,435	87,437	11,314	5,559	76,123	5,559	76,123	0,94	80,349	76,071	4,278	5,559	76,019	-0,94	5,559	76,019	5,600	76,061	0,042
180+3,35	19,636	87,832	11,571	5,503	76,261	5,503	76,261	0,05	80,779	76,258	4,521	5,503	76,255	-0,05	5,503	76,255	5,681	76,432	0,177
180+3,67	19,306	87,521	11,243	5,501	76,278	5,501	76,278	-0,02	80,820	76,279	4,541	5,501	76,280	0,02	5,501	76,280	5,690	76,468	0,188
181	19,013	88,181	10,760	5,691	77,421	5,691	77,421	-2,73	82,016	77,576	4,440	5,691	77,732	2,73	5,691	77,732	5,748	77,789	0,057
181+13,6	17,821	87,780	9,409	5,850	78,371	5,850	78,371	-5,00	82,291	78,663	3,628	5,850	78,956	5,00	5,850	78,956	5,870	78,976	0,020
182	13,802	86,768	7,952	5,850	78,816	5,850	78,816	-5,00	82,302	79,108	3,194	5,850	79,401	5,00	5,850	79,401	5,942	79,492	0,091

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
183	13,621	87,994	7,771	5,850	80,223	5,850	80,223	-5,00	82,615	80,515	2,100	5,850	80,808	5,00	5,850	80,808	5,974	80,932	0,124
183+2,32	13,565	88,101	7,714	5,850	80,387	5,850	80,387	-5,00	82,268	80,679	1,589	5,850	80,972	5,00	5,850	80,972	5,920	81,041	0,069
184	13,317	89,262	7,620	5,697	81,642	5,697	81,642	-2,81	82,131	81,802	0,329	5,697	81,962	2,81	5,697	81,962	5,773	81,911	-0,051
184+12,3	13,588	90,512	7,998	5,590	82,514	5,590	82,514	-1,28	82,624	82,585	0,039	5,590	82,657	1,28	5,590	82,657	5,767	82,539	-0,118
185	17,593	92,563	9,508	5,523	83,055	5,523	83,055	-0,33	83,072	83,073	-0,001	5,523	83,091	0,33	5,523	83,091	5,524	83,091	0,000
185+15,4	17,930	94,068	9,719	5,650	84,349	5,650	84,349	1,85	83,991	84,244	-0,253	5,650	84,139	-1,85	5,650	84,139	5,740	84,230	0,091
186	18,162	94,640	9,897	5,703	84,743	5,703	84,743	2,51	84,275	84,600	-0,325	5,703	84,457	-2,51	5,703	84,457	5,792	84,546	0,089
187	13,899	94,450	7,963	5,936	86,487	5,936	86,487	5,41	86,079	86,166	-0,087	5,936	85,845	-5,41	5,936	85,845	6,179	85,683	-0,162
187+5,45	13,359	94,325	7,359	6,000	86,966	6,000	86,966	6,20	86,423	86,594	-0,171	6,000	86,222	-6,20	6,000	86,222	6,284	86,033	-0,189
188	10,870	92,859	4,870	6,000	87,989	6,000	87,989	6,20	87,353	87,617	-0,264	6,000	87,245	-6,20	6,000	87,245	8,534	85,556	-1,689
189	12,574	95,970	6,574	6,000	89,396	6,000	89,396	6,20	88,775	89,024	-0,249	6,000	88,652	-6,20	6,000	88,652	6,082	88,598	-0,054
189+5,55	12,330	96,115	6,330	6,000	89,785	6,000	89,785	6,20	89,191	89,413	-0,222	6,000	89,041	-6,20	6,000	89,041	6,185	88,918	-0,123
190	11,058	95,694	5,294	5,764	90,400	5,764	90,400	3,27	90,217	90,212	0,005	5,764	90,024	-3,27	5,764	90,024	6,048	89,834	-0,190
190+15,5	11,237	96,712	5,727	5,509	90,985	5,509	90,985	0,12	91,320	90,978	0,342	5,509	90,972	-0,12	5,509	90,972	5,646	90,881	-0,091
190+16,8	11,305	96,831	5,784	5,521	91,047	5,521	91,047	-0,29	91,432	91,063	0,369	5,521	91,079	0,29	5,521	91,079	5,649	90,994	-0,085
191	11,605	97,214	5,993	5,612	91,221	5,612	91,221	-1,49	91,669	91,305	0,364	5,612	91,389	1,49	5,612	91,389	5,750	91,297	-0,092
191+16,8	13,546	99,501	7,446	6,100	92,055	6,100	92,055	-8,00	92,103	92,543	-0,440	6,100	93,031	8,00	6,100	93,031	9,298	90,899	-2,132
192	13,872	99,978	7,772	6,100	92,206	6,100	92,206	-8,00	92,186	92,694	-0,508	6,100	93,182	8,00	6,100	93,182	10,392	90,321	-2,861
193	18,879	103,412	10,217	6,100	93,195	6,100	93,195	-8,00	93,329	93,683	-0,354	6,100	94,171	8,00	6,100	94,171	8,213	92,762	-1,409
193+8,56	19,808	104,833	11,146	6,100	93,687	6,100	93,687	-8,00	95,716	94,175	1,541	6,100	94,663	8,00	6,100	94,663	18,509	86,390	-8,273
194	18,619	104,748	10,297	5,760	94,451	5,760	94,451	-3,46	96,515	94,650	1,865	5,760	94,850	3,46	5,760	94,850	7,823	93,474	-1,376
194+8,56	13,445	102,995	7,941	5,505	95,054	5,505	95,054	-0,06	95,411	95,057	0,354	5,505	95,061	0,06	5,505	95,061	7,088	94,005	-1,056
194+8,79	13,421	102,991	7,919	5,501	95,072	5,501	95,072	0,02	95,382	95,071	0,311	5,501	95,070	-0,02	5,501	95,070	7,077	94,019	-1,051
195	12,312	102,823	6,644	5,669	96,179	5,669	96,179	2,36	94,842	96,045	-1,203	5,669	95,911	-2,36	5,669	95,911	7,058	94,985	-0,926
195+8,79	12,569	103,874	6,769	5,800	97,105	5,800	97,105	4,20	96,178	96,862	-0,684	5,800	96,618	-4,20	5,800	96,618	6,692	96,024	-0,594
196	12,773	105,057	6,973	5,800	98,084	5,800	98,084	4,20	97,741	97,840	-0,099	5,800	97,597	-4,20	5,800	97,597	6,160	97,357	-0,240
197	12,742	106,868	6,942	5,800	99,926	5,800	99,926	4,20	100,049	99,682	0,367	5,800	99,438	-4,20	5,800	99,438	5,975	99,613	0,175
197+2,42	12,798	107,133	6,997	5,800	100,136	5,800	100,136	4,20	100,201	99,893	0,308	5,800	99,649	-4,20	5,800	99,649	6,040	99,889	0,240
198	13,116	108,717	7,482	5,635	101,235	5,635	101,235	0,51	101,410	101,206	0,204	5,635	101,066	-2,50	5,635	101,066	5,710	101,141	0,075
198+2,42	13,101	108,873	7,489	5,612	101,384	5,612	101,384	0,00	101,586	101,384	0,202	5,612	101,244	-2,50	5,612	101,244	5,706	101,338	0,094
199	18,382	112,735	10,320	5,500	102,415	5,500	102,415	-2,50	102,718	102,553	0,165	5,500	102,415	-2,50	5,500	102,415	5,521	102,436	0,021
200	18,488	113,916	10,426	5,500	103,490	5,500	103,490	-2,50	103,592	103,627	-0,035	5,500	103,490	-2,50	5,500	103,490	5,772	103,308	-0,182
201	12,997	111,834	7,497	5,500	104,337	5,500	104,337	-2,50	104,255	104,474	-0,219	5,500	104,337	-2,50	5,500	104,337	6,143	103,908	-0,429
202	12,163	111,875	6,542	5,621	105,333	5,621	105,333	-2,50	104,850	105,474	-0,624	5,621	105,457	-0,30	5,621	105,457	6,626	104,787	-0,670
202+2,23	12,129	111,951	6,491	5,637	105,460	5,637	105,460	-2,50	104,920	105,601	-0,681	5,637	105,601	0,00	5,637	105,601	6,658	104,921	-0,680

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
203	12,596	113,406	6,830	5,766	106,576	5,766	106,576	-2,50	106,114	106,720	-0,606	5,766	106,855	2,34	5,766	106,855	6,777	106,181	-0,674
204	12,507	114,650	6,595	5,911	108,055	5,911	108,055	-4,98	108,469	108,350	0,119	5,911	108,645	4,98	5,911	108,645	7,273	107,737	-0,908
204+12,2	12,674	115,753	6,674	6,000	109,079	6,000	109,079	-6,60	110,590	109,475	1,115	6,000	109,871	6,60	6,000	109,871	7,869	108,625	-1,246
205	12,857	116,640	6,857	6,000	109,783	6,000	109,783	-6,60	112,006	110,179	1,827	6,000	110,575	6,60	6,000	110,575	7,675	109,458	-1,117
206	13,960	119,730	7,960	6,000	111,770	6,000	111,770	-6,60	116,004	112,166	3,838	6,000	112,562	6,60	6,000	112,562	6,135	112,697	0,135
207	13,338	121,342	7,338	6,000	114,004	6,000	114,004	-6,60	119,526	114,400	5,126	6,000	114,796	6,60	6,000	114,796	6,474	115,270	0,474
208	6,950	115,767	-0,634	6,000	116,401	6,000	116,401	-6,60	115,921	116,797	-0,876	6,000	117,193	6,60	6,000	117,193	8,516	115,516	-1,677
209	14,632	113,047	-5,755	6,000	118,802	6,000	118,802	-6,60	112,970	119,198	-6,228	6,000	119,594	6,60	6,000	119,594	14,782	113,739	-5,855
209+0,88	14,802	113,041	-5,868	6,000	118,909	6,000	118,909	-6,60	112,967	119,305	-6,338	6,000	119,701	6,60	6,000	119,701	14,710	113,894	-5,807
210	17,444	113,439	-7,788	5,762	121,227	5,762	121,227	-3,46	114,037	121,427	-7,390	5,762	121,626	3,46	5,762	121,626	14,484	115,811	-5,815
211	10,558	120,274	-3,363	5,514	123,637	5,514	123,637	-0,18	119,508	123,647	-4,139	5,514	123,657	0,18	5,514	123,657	12,517	118,988	-4,669
211+0,88	10,128	120,661	-3,083	5,503	123,744	5,503	123,744	-0,03	119,926	123,745	-3,819	5,503	123,747	0,03	5,503	123,747	12,104	119,346	-4,401
211+1,23	9,974	120,805	-2,982	5,501	123,787	5,501	123,787	0,01	120,091	123,786	-3,695	5,501	123,786	-0,01	5,501	123,786	11,951	119,486	-4,300
212	6,876	127,454	1,266	5,610	126,188	5,610	126,188	1,35	126,848	126,112	0,736	5,610	126,036	-1,35	5,610	126,036	5,750	126,175	0,139
213	7,877	130,901	2,150	5,726	128,751	5,726	128,751	2,78	129,729	128,591	1,138	5,726	128,432	-2,78	5,726	128,432	8,027	130,733	2,301
214	7,524	132,998	1,681	5,843	131,317	5,843	131,317	4,21	133,647	131,071	2,576	5,843	130,825	-4,21	5,843	130,825	8,189	133,171	2,346
214+1,23	7,491	133,117	1,641	5,850	131,476	5,850	131,476	4,30	133,811	131,224	2,587	5,850	130,973	-4,30	5,850	130,973	8,237	133,360	2,387
215	6,696	134,574	0,846	5,850	133,728	5,850	133,728	4,30	136,034	133,477	2,557	5,850	133,225	-4,30	5,850	133,225	8,641	136,016	2,791
216	6,258	135,857	-0,272	5,850	136,129	5,850	136,129	4,30	137,683	135,877	1,806	5,850	135,626	-4,30	5,850	135,626	8,929	138,705	3,079
217	7,423	140,103	1,573	5,850	138,530	5,850	138,530	4,30	141,109	138,278	2,831	5,850	138,027	-4,30	5,850	138,027	10,065	142,241	4,214
218	9,309	144,390	3,459	5,850	140,931	5,850	140,931	4,30	145,266	140,679	4,587	5,850	140,427	-4,30	5,850	140,427	11,387	145,964	5,537
219	10,648	148,129	4,798	5,850	143,331	5,850	143,331	4,30	149,666	143,080	6,586	5,850	142,828	-4,30	5,850	142,828	13,205	150,183	7,355
220	12,113	151,995	6,263	5,850	145,732	5,850	145,732	4,30	153,599	145,481	8,118	5,850	145,229	-4,30	5,850	145,229	16,633	153,450	8,221
221	11,922	154,205	6,072	5,850	148,133	5,850	148,133	4,30	155,042	147,881	7,161	5,850	147,630	-4,30	5,850	147,630	17,131	156,349	8,719
221+9,19	10,964	154,351	5,114	5,850	149,237	5,850	149,237	4,30	155,470	148,986	6,484	5,850	148,734	-4,30	5,850	148,734	16,955	157,276	8,542
222	9,963	154,596	4,152	5,810	150,444	5,810	150,444	3,53	156,222	150,240	5,982	5,810	150,035	-3,53	5,810	150,035	13,556	157,780	7,745
223	9,126	156,094	3,390	5,736	152,704	5,736	152,704	2,09	157,490	152,584	4,906	5,736	152,441	-2,50	5,736	152,441	12,384	159,088	6,647
224	9,335	158,695	3,673	5,663	155,022	5,663	155,022	0,66	159,082	154,985	4,097	5,663	154,843	-2,50	5,663	154,843	12,145	161,326	6,483
224+9,19	8,796	159,256	3,167	5,629	156,089	5,629	156,089	0,00	160,992	156,089	4,903	5,629	155,948	-2,50	5,629	155,948	12,097	162,416	6,468
225	8,390	160,127	2,801	5,589	157,326	5,589	157,326	-0,77	162,122	157,369	4,753	5,589	157,230	-2,50	5,589	157,230	12,075	163,716	6,486
226	7,393	161,326	1,878	5,515	159,448	5,515	159,448	-2,21	162,199	159,570	2,629	5,515	159,432	-2,50	5,515	159,432	11,222	165,139	5,707
227	6,822	162,727	1,322	5,500	161,405	5,500	161,405	-2,50	162,777	161,542	1,235	5,500	161,405	-2,50	5,500	161,405	10,002	165,907	4,502
228	6,440	164,089	0,940	5,500	163,149	5,500	163,149	-2,50	164,657	163,286	1,371	5,500	163,149	-2,50	5,500	163,149	9,245	166,894	3,745
228+14,5	6,612	165,179	0,910	5,702	164,269	5,702	164,269	-2,50	165,661	164,411	1,250	5,702	164,411	0,00	5,702	164,411	10,928	169,637	5,226
229	6,736	165,603	0,945	5,791	164,658	5,791	164,658	-2,50	166,000	164,803	1,197	5,791	164,866	1,09	5,791	164,866	11,158	170,233	5,367

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
230	6,692	166,499	0,577	6,115	165,922	6,115	165,922	-5,09	167,639	166,233	1,406	6,115	166,545	5,09	6,115	166,545	12,426	172,857	6,312
230+14,5	6,908	167,237	0,558	6,350	166,679	6,350	166,679	-8,00	170,905	167,187	3,718	6,350	167,695	8,00	6,350	167,695	14,288	175,633	7,938
231	6,656	167,251	0,306	6,350	166,945	6,350	166,945	-8,00	171,290	167,453	3,837	6,350	167,961	8,00	6,350	167,961	18,477	177,525	9,564
232	7,745	169,172	1,395	6,350	167,777	6,350	167,777	-8,00	172,639	168,285	4,354	6,350	168,793	8,00	6,350	168,793	19,863	179,744	10,951
233	6,949	168,980	0,599	6,350	168,381	6,350	168,381	-8,00	173,485	168,889	4,596	6,350	169,397	8,00	6,350	169,397	20,251	180,736	11,339
234	6,977	168,339	-0,418	6,350	168,757	6,350	168,757	-8,00	170,672	169,265	1,407	6,350	169,773	8,00	6,350	169,773	21,317	182,178	12,405
235	7,245	168,307	-0,597	6,350	168,904	6,350	168,904	-8,00	168,465	169,412	-0,947	6,350	169,920	8,00	6,350	169,920	9,600	173,170	3,250
235+10,1	9,715	166,649	-2,243	6,350	168,892	6,350	168,892	-8,00	168,811	169,400	-0,589	6,350	169,908	8,00	6,350	169,908	6,737	170,295	0,387
236	6,278	168,779	-0,070	6,172	168,849	6,172	168,849	-6,33	169,019	169,240	-0,221	6,172	169,631	6,33	6,172	169,631	9,562	173,020	3,389
237	6,687	169,449	0,875	5,812	168,574	5,812	168,574	-2,94	170,585	168,745	1,840	5,812	168,916	2,94	5,812	168,916	20,134	180,676	11,760
237+10,1	7,174	169,883	1,545	5,630	168,338	5,630	168,338	-1,22	172,095	168,407	3,688	5,630	168,476	1,22	5,630	168,476	21,202	181,486	13,010
238	7,766	170,300	2,190	5,575	168,110	5,575	168,110	0,57	173,771	168,078	5,693	5,575	168,046	-0,57	5,575	168,046	20,436	180,344	12,298
238+4,53	7,929	170,292	2,225	5,703	168,067	5,703	168,067	1,55	173,622	167,978	5,644	5,703	167,890	-1,55	5,703	167,890	21,112	180,737	12,847
239	8,207	169,916	2,067	6,140	167,849	6,140	167,849	4,87	172,744	167,550	5,194	6,140	167,251	-4,87	6,140	167,251	22,008	180,557	13,306
239+14,5	7,811	168,808	1,261	6,550	167,547	6,550	167,547	8,00	170,012	167,023	2,989	6,550	166,499	-8,00	6,550	166,499	21,066	178,453	11,954
240	7,416	168,119	0,866	6,550	167,253	6,550	167,253	8,00	167,904	166,729	1,175	6,550	166,205	-8,00	6,550	166,205	20,110	177,203	10,998
241	8,457	164,761	-1,271	6,550	166,032	6,550	166,032	8,00	165,886	165,508	0,378	6,550	164,984	-8,00	6,550	164,984	11,999	170,433	5,449
242	8,509	163,278	-1,305	6,550	164,583	6,550	164,583	8,00	163,960	164,059	-0,099	6,550	163,535	-8,00	6,550	163,535	9,997	166,982	3,447
243	8,095	161,876	-1,030	6,550	162,906	6,550	162,906	8,00	161,598	162,382	-0,784	6,550	161,858	-8,00	6,550	161,858	7,971	163,279	1,421
243+10,0	8,578	160,625	-1,352	6,550	161,977	6,550	161,977	8,00	160,266	161,453	-1,187	6,550	160,929	-8,00	6,550	160,929	7,607	161,986	1,057
244	8,677	159,186	-1,612	6,259	160,798	6,259	160,798	6,48	158,972	160,393	-1,421	6,259	159,988	-6,48	6,259	159,988	7,771	161,500	1,512
245	8,237	156,592	-1,709	5,674	158,301	5,674	158,301	3,41	157,900	158,107	-0,207	5,674	157,914	-3,41	5,674	157,914	5,866	157,786	-0,128
245+0,05	8,227	156,592	-1,703	5,672	158,295	5,672	158,295	3,40	157,898	158,102	-0,204	5,672	157,908	-3,40	5,672	157,908	5,856	157,786	-0,122
245+5,94	7,047	156,521	-1,031	5,500	157,552	5,500	157,552	2,50	157,000	157,415	-0,415	5,500	157,277	-2,50	5,500	157,277	6,017	157,794	0,517