



# Prefeitura Municipal Mucambo

ANEXO I - TERMO DE REFERÊNCIA DO OBJETO

ANEXO A – Valores Médio



ROTA	DESCRIÇÃO DA ROTA	TIPO DO VEÍCULO	TURNO	DIAS LETIVOS (5 MESES)	KM/DIA	VALOR ESTIMADO	VALOR TOTAL ESTIMADO
1	SEDE/RETIRO/ LAGOA DO MATO/ PEDRA DE FOGO/ SEDE	ÔNIBUS	MANHÃ/TARDE	110	64 KM	R\$ 7,00	R\$ 49.280,00
2	SEDE / OITÍS / SEDE	KOMBI	MANHÃ/TARDE	110	86 KM	R\$ 6,00	R\$ 56.760,00
3	SEDE/ ALTO DO CRISTO/ FECHADO/ BARRO VERMELHO/ CAMPO DE DENTRO/ CAIÇARA	MICRO-ÔNIBUS	MANHÃ	110	27 KM	R\$ 6,80	R\$ 20.196,00
4	CAMPO DE DENTRO/BARRO VERMELHO/ FECHADO/ CAIÇARA/ SEDE	MICRO-ÔNIBUS	TARDE	110	33 KM	R\$ 6,80	R\$ 24.684,00
5	SEDE/ ITAIPÚ/ MALHADA/ BARRO VERMELHO/ CAIÇARA	ÔNIBUS	MANHÃ	110	33 KM	R\$ 7,00	R\$ 25.410,00
6	ITAIPÚ/ MALHADA/ BARRO VERMELHO/ CAIÇARA /SEDE	ÔNIBUS	TARDE	110	54 KM	R\$ 7,00	R\$ 41.580,00
7	SEDE/ CHAPADA/ POÇO VERDE/BOM JESUS/ ITAPIRANGUARA/ SEDE	ÔNIBUS	MANHÃ/TARDE	110	84 KM	R\$ 7,00	R\$ 64.680,00
8	SEDE/ CORREDOR/ CALDEIRÃO/ BARRA/ CANAFISTULA/ PAJEÚ/ SEDE	ÔNIBUS	MANHÃ	110	52 KM	R\$ 7,00	R\$ 40.040,00
9	SEDE/ CAIÇARA/ BARRO VERMELHO/ MALHADA/ SEDE	ÔNIBUS	TARDE	110	38 KM	R\$ 7,00	R\$ 29.260,00
10	SEDE/ PRAZERES / VILA LIBANIA/ CARQUEIJO/ PRAZERES	ÔNIBUS	MANHÃ	110	20 KM	R\$ 7,00	R\$ 15.400,00
11	PRAZERES/ VILA LIBÂNIA/ CARQUEIJO/ CINCO CAMINHO/ SEDE	ÔNIBUS	TARDE	110	31 KM	R\$ 7,00	R\$ 23.870,00
12	SEDE/ CACIMBAS/ MORRINHOS/ CARQUEIJO/ VILA LIBÂNIA/ PACUJA/ SEDE	ÔNIBUS	MANHÃ/TARDE	110	93 KM	R\$ 7,00	R\$ 71.610,00
13	SEDE/ CINCO CAMINHOS / CARQUEIJO / VILA LIBÂNIA / PRAZERES /SEDE	ÔNIBUS	TARDE	110	42 KM	R\$ 7,00	R\$ 32.340,00
TOTAL							R\$ 495.110,00

1 - O Valor Global Estimado é de R\$ 1.041.123,60 (um milhão quarenta e um mil cento e vinte e três reais e sessenta centavos), conforme pesquisas de preços anexadas aos autos.

2 - O valor constante do presente orçamento foi calculado tendo-se como base o preço médio após pesquisa de preços praticado no mercado.



# Prefeitura Municipal Mucambo



ANEXO I - TERMO DE REFERÊNCIA DO OBJETO

ANEXO B – Estudos e peças gráficas com detalhamentos das rotas



# ROTA 01

## GEORREFERENCIAMENTO

SEDE À PEDRA DE FOGO

COMPRIMENTO: 21.311,46 Metros

MUCAMBO

DEZEMBRO/2018



## MEMORIAL DESCRITIVO

### ROTA 1 – SEDE/RETIRO/LAGOA DO MATO/PEDRA DE FOGO/SEDE

Inicia-se a descrição desta rota partindo da garagem Municipal com pavimentação asfáltica de coordenadas E=306670,000 e N=9568497,000 , deste segue com a distância de 3.022,64m até fim da pavimentação asfáltica e início de pavimentação em pedra tosca com as coordenadas E=306154,000 e N=9567687,000 , deste segue com a distância de 928,48m até o início de estrada vicinal com as coordenadas E=306222,000 e N=9567232,000 deste segue com a distância de 17.360,34m até o fim de estrada vicinal com as coordenadas E=306222,000 e N=9567232,000, segue voltando para a garagem do município de Mucambo de coordenadas E=306670,000 e N=9568497,000 , finalizando a rota escolar. Todas as distâncias relacionadas neste memorial descritivo foram somadas ida e volta perfazendo um total de 21.311,46m .

Mucambo, CE Dezembro de 2018.



ROTA 1 - SEDE Á PEDRA DE FOGO		
COMPRIMENTO	21.311,46 M	
INICIO DA ROTA	ESTE	NORTE
0	306.670.000	9.568.497.000
1	306.570.804	9.568.431.963
2	306.486.638	9.568.380.542
3	306.486.676	9.568.375.325
4	306.517.473	9.568.300.261
5	306.535.197	9.568.242.523
6	306.500.758	9.568.216.336
7	306.407.913	9.568.174.996
8	306.396.369	9.568.174.271
9	306.308.610	9.568.136.556
10	306.301.330	9.568.134.999
11	306.297.293	9.568.134.688
12	306.211.177	9.568.097.006
13	306.117.369	9.568.065.105
14	306.159.054	9.567.960.628
15	306.169.852	9.567.933.504
16	306.194.932	9.567.866.292
17	306.217.531	9.567.802.485
18	306.236.076	9.567.737.367
19	306.235.957	9.567.732.678
20	306.160.239	9.567.701.838
21	306.161.356	9.567.686.673
22	306.168.881	9.567.656.656
23	306.169.418	9.567.650.961
24	306.189.848	9.567.572.126
25	306.219.289	9.567.441.303
26	306.233.466	9.567.343.706
27	306.232.214	9.567.321.195
28	306.221.951	9.567.265.753
29	306.221.182	9.567.226.519
30	306.209.153	9.567.109.010
31	306.132.581	9.566.408.662
32	306.104.389	9.566.132.240
33	306.091.489	9.566.014.124
34	306.059.764	9.565.703.120
35	306.054.533	9.565.638.101
36	306.007.609	9.565.156.974
37	305.964.574	9.564.743.256
38	305.911.207	9.564.288.719

CNPJ: 25.011.748/0001-10

RUA VEREADOR MARCOLINO OLAVO, Nº600, SALA 01

GROAÍRAS – CEARÁ

CEP: 62.190-000 FONE: (88) 9.8806-7015 e-mail: projezooconsultoria@hotmail.com



39	305.805.571	9.563.300.703
40	305.771.479	9.562.814.934
41	305.767.000	9.562.702.000
42	305.731.948	9.562.693.241
43	305.716.386	9.562.692.438
44	305.697.451	9.562.693.199
45	305.629.374	9.562.723.016
46	305.502.085	9.562.818.191
47	305.378.795	9.562.911.925
48	305.363.754	9.562.920.820
49	305.357.925	9.562.930.277
50	305.352.128	9.562.937.810
51	305.243.566	9.563.015.948
52	305.175.533	9.563.122.092
53	305.173.197	9.563.196.619
54	305.145.162	9.563.233.285
55	305.080.519	9.563.252.185
56	305.005.690	9.563.270.267
57	304.944.877	9.563.312.041
58	304.903.069	9.563.347.928
59	304.824.130	9.563.377.528
60	304.767.900	9.563.427.865
61	304.711.958	9.563.482.490
62	304.653.796	9.563.508.455
63	304.439.540	9.563.539.016
64	304.331.365	9.563.540.701
65	304.268.569	9.563.535.720
66	304.252.340	9.563.528.503
67	304.208.791	9.563.518.590
68	304.196.519	9.563.510.301
69	304.169.413	9.563.466.748
70	304.145.473	9.563.380.037
71	304.144.859	9.563.369.105
72	304.131.626	9.563.312.806
73	304.057.907	9.563.239.967
74	303.975.735	9.563.187.448
75	303.867.917	9.563.154.371
76	303.734.349	9.563.161.080
77	303.658.998	9.563.169.718
78	303.650.611	9.563.174.210
79	303.585.221	9.563.150.155
80	303.520.909	9.563.121.457



81	303.461.978	9.563.112.913
82	303.401.164	9.563.122.582
83	303.338.750	9.563.128.972
84	303.221.531	9.563.128.684
85	303.062.513	9.563.121.940
86	303.043.798	9.563.124.816
87	302.973.366	9.563.130.352
88	302.966.408	9.563.130.904
89	302.880.740	9.563.140.986
90	302.872.801	9.563.140.529
91	302.827.455	9.563.148.855
92	302.770.920	9.563.166.220
93	302.720.395	9.563.195.800
94	302.634.274	9.563.270.585
95	302.527.544	9.563.394.355
96	302.490.427	9.563.431.190
97	302.465.564	9.563.460.668
98	302.427.632	9.563.472.349
99	302.352.756	9.563.486.732
100	302.306.487	9.563.496.378
101	302.260.564	9.563.487.898
102	302.227.877	9.563.485.958
103	302.201.626	9.563.515.106
104	302.198.410	9.563.518.813
105	302.158.083	9.563.570.494
106	302.096.317	9.563.626.272
107	302.025.373	9.563.689.451
108	301.981.201	9.563.730.132
109	301.950.290	9.563.774.439
110	301.945.986	9.563.789.731
111	301.930.312	9.563.840.783
112	301.926.703	9.563.857.675
113	301.924.047	9.563.872.785
114	301.915.150	9.563.886.136
115	301.910.824	9.563.889.981
116	301.885.193	9.563.883.092
117	301.849.089	9.563.868.615
118	301.820.056	9.563.867.721
119	301.817.864	9.563.867.611
120	301.792.409	9.563.877.675
121	301.758.420	9.563.884.043
122	301.724.725	9.563.893.316

D



123	301.693.075	9.563.894.661
124	301.658.792	9.563.910.499
125	301.656.135	9.563.913.483
126	301.635.685	9.563.919.286
127	301.598.874	9.563.913.553
128	301.595.901	9.563.913.345
129	301.554.581	9.563.903.031
130	301.551.582	9.563.902.865
131	301.528.373	9.563.897.650
132	301.516.301	9.563.904.185
133	301.470.430	9.563.943.144
134	301.452.917	9.563.957.920
135	301.440.854	9.563.995.207
136	301.452.961	9.564.048.111
137	301.482.070	9.564.080.354
138	301.514.170	9.564.119.553
139	301.545.797	9.564.142.911
140	301.561.255	9.564.180.240
141	301.584.974	9.564.241.460
142	301.599.034	9.564.276.709
143	301.598.123	9.564.270.693
144	301.615.433	9.564.304.776
145	301.615.545	9.564.307.041
146	301.617.652	9.564.310.560
147	301.622.166	9.564.328.040
148	301.624.064	9.564.379.667
149	301.622.257	9.564.383.262
150	301.644.262	9.564.423.328
151	301.665.456	9.564.448.564
152	301.694.635	9.564.464.955
153	301.698.073	9.564.471.378
154	301.728.530	9.564.512.286
155	301.748.248	9.564.562.472
156	301.759.231	9.564.607.102
157	301.765.043	9.564.629.391
158	301.786.472	9.564.644.167
159	301.836.291	9.564.643.717
160	301.859.094	9.564.649.519
161	301.871.761	9.564.661.340
162	301.895.705	9.564.677.973
163	301.908.893	9.564.694.315
164	301.938.747	9.564.722.360





165	301.954.259	9.564.738.043
166	301.986.611	9.564.743.772
167	302.009.959	9.564.754.361
168	302.041.415	9.564.777.226
169	302.043.904	9.564.781.487
170	302.085.914	9.564.827.697
171	302.120.778	9.564.861.146
172	302.192.807	9.564.922.473
173	302.194.208	9.564.926.316
174	302.207.707	9.564.964.498
175	302.224.174	9.565.022.641
176	302.250.275	9.565.083.906
177	302.272.649	9.565.128.486
178	302.273.319	9.565.131.004
179	302.291.619	9.565.158.476
180	302.317.958	9.565.177.974
181	302.407.793	9.565.214.397
182	302.402.809	9.565.213.494
183	302.445.098	9.565.232.947
184	302.490.451	9.565.245.984
185	302.525.714	9.565.250.468
186	302.573.482	9.565.265.690
187	302.669.331	9.565.306.549
188	302.743.662	9.565.320.588
189	302.777.927	9.565.332.728
190	302.779.572	9.565.334.989
191	302.804.058	9.565.359.093
192	302.870.816	9.565.392.254
193	303.026.489	9.565.458.757
194	303.263.582	9.565.532.188
195	303.502.900	9.565.613.737
196	303.567.388	9.565.632.790
197	303.610.897	9.565.627.459
198	303.670.074	9.565.622.589
199	303.728.966	9.565.630.945
200	303.760.906	9.565.611.570
201	303.818.432	9.565.576.231
202	303.843.652	9.565.559.822
203	303.883.980	9.565.529.341
204	303.915.846	9.565.466.791
205	303.949.648	9.565.417.141
206	303.984.451	9.565.379.448

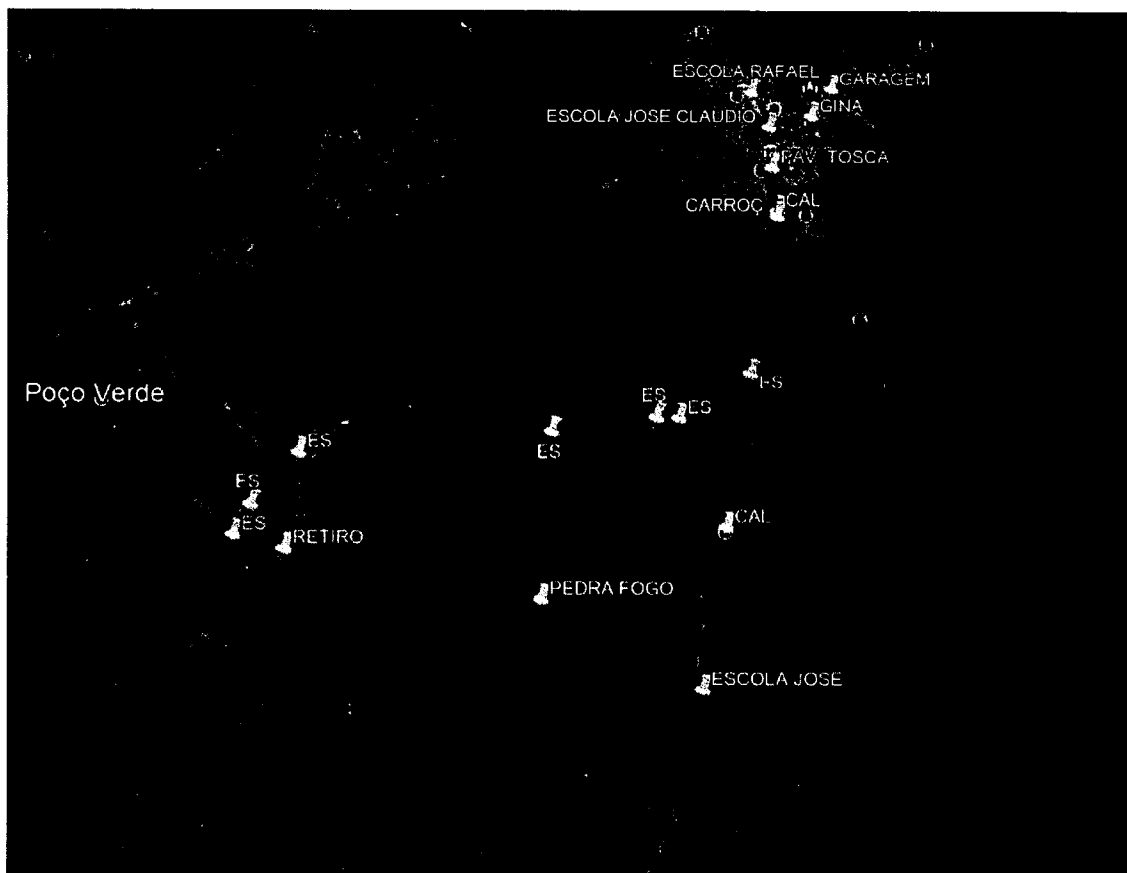


207	304.026.215	9.565.325.929
208	304.061.777	9.565.262.291
209	304.072.040	9.565.218.873
210	304.081.476	9.565.153.490
211	304.083.114	9.565.146.612
212	304.097.582	9.565.104.545
213	304.126.605	9.565.088.018
214	304.167.323	9.565.090.996
215	304.204.163	9.565.091.915
216	304.249.749	9.565.070.204
217	304.348.029	9.565.044.600
218	304.461.955	9.565.023.563
219	304.608.445	9.565.013.996
220	304.641.422	9.565.019.203
221	304.747.935	9.565.038.258
222	304.828.740	9.565.067.500
223	304.968.016	9.565.093.025
224	305.066.090	9.565.098.667
225	305.091.412	9.565.101.331
226	305.103.306	9.565.110.803
227	305.142.754	9.565.161.048
228	305.197.876	9.565.235.575
229	305.208.733	9.565.247.724
230	305.225.653	9.565.271.807
231	305.392.921	9.565.256.195
232	305.432.350	9.565.255.309
233	305.451.037	9.565.269.016
234	305.484.683	9.565.290.682
235	305.510.264	9.565.317.496
236	305.552.955	9.565.324.825
237	305.627.157	9.565.354.435
238	305.666.247	9.565.384.054
239	305.695.262	9.565.424.330
240	305.746.312	9.565.471.472
241	305.785.670	9.565.516.991
242	305.786.819	9.565.519.670
243	305.809.387	9.565.539.562
244	305.871.499	9.565.576.565
245	305.937.576	9.565.622.307
246	306.005.895	9.565.671.425
247	306.054.286	9.565.707.412
248	306.100.929	9.566.057.019

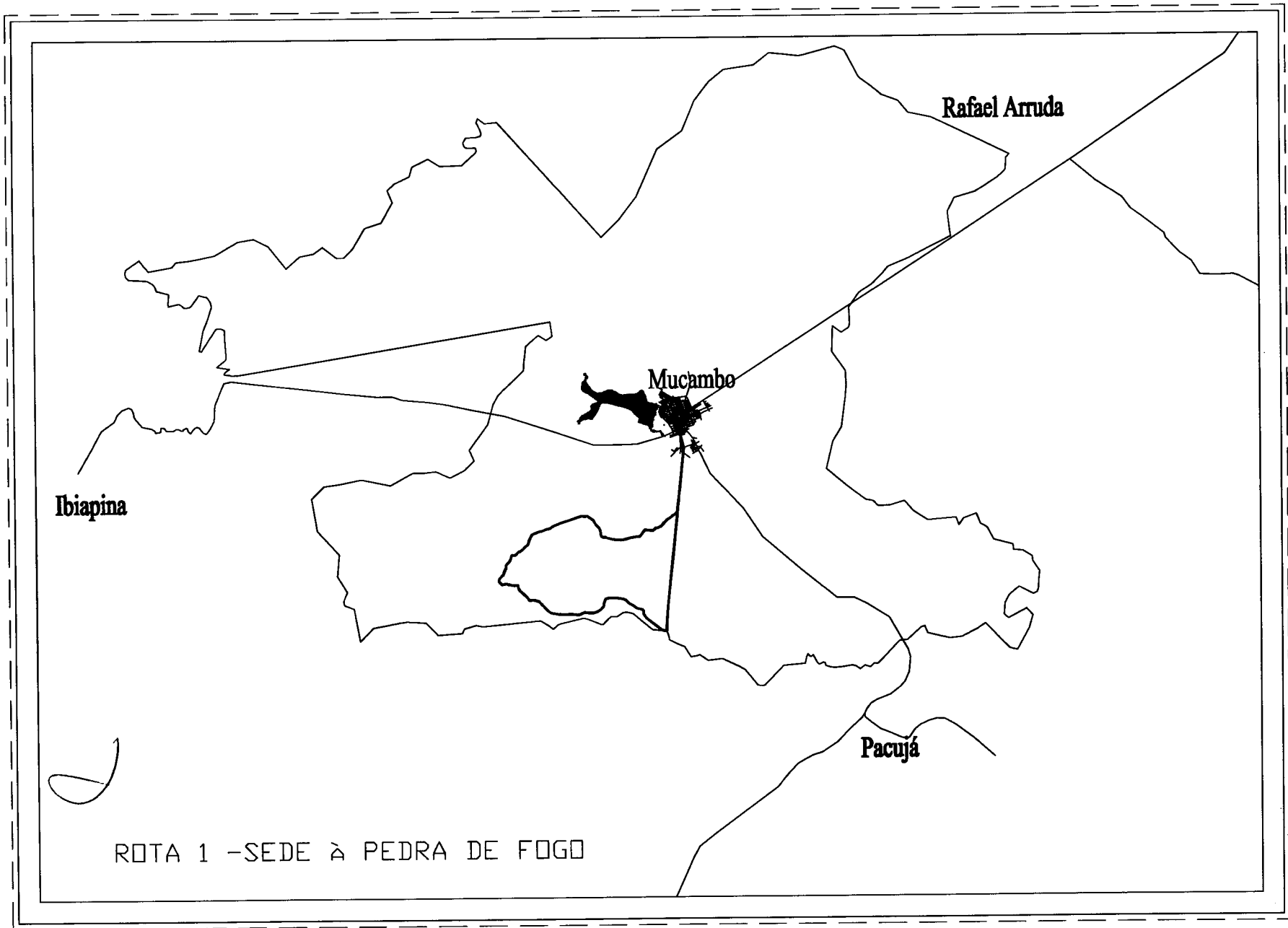


249	306.112.351	9.566.176.320
250	306.135.869	9.566.370.443
251	306.156.587	9.566.616.596
252	306.213.626	9.567.108.247
253	306.226.568	9.567.230.102
254	306.223.758	9.567.304.904
255	306.226.924	9.567.351.024
256	306.211.140	9.567.458.306
257	306.193.121	9.567.547.422
258	306.160.714	9.567.674.344
259	306.157.692	9.567.702.749
260	306.237.452	9.567.733.952
261	306.217.090	9.567.824.738
262	306.175.243	9.567.925.523
263	306.106.615	9.568.095.441
264	306.049.086	9.568.252.168
265	305.998.984	9.568.243.526
266	305.931.163	9.568.416.981
267	305.975.319	9.568.347.599
268	306.117.048	9.568.255.991
269	306.121.940	9.568.252.771
270	306.222.122	9.568.256.295
271	306.233.478	9.568.259.310
272	306.426.369	9.568.346.459
273	306.431.033	9.568.347.950
274	306.669.307	9.568.500.184

# ROTA 1 ÔNIBUS ESCOLAR



## IMAGEM DE LOCALIZAÇÃO



ROTA 1 -SEDE à PEDRA DE FOGO





# ROTA 02

## GEORREFERENCIAMENTO

SEDE À OITÍS

COMPRIMENTO: 28.589,16 Metros

MUCAMBO

DEZEMBRO/2018



## MEMORIAL DESCRITIVO

### ROTA 2 – SEDE/OITÍS/SEDE

Inicia-se a descrição desta rota partindo da garagem Municipal com pavimentação asfáltica de coordenadas E=306670,000 e N=9568497,000 , deste segue com a distância de 3.022,64m até fim da pavimentação asfáltica e início de pavimentação em pedra tosca com as coordenadas E=306154,000 e N=9567687,000, deste segue com a distância de 928,48m até o início de estrada vicinal com as coordenadas E=306222,000 e N=9567232,000 deste segue com a distância de 24.638,04m até Localidade de Oitís de coordenadas E=305912,000 e N=9564284,000, voltando para a garagem do município de Mucambo de coordenadas E=306670,000 e N=9568497,000 , finalizando a rota escolar. Todas as distâncias relacionadas neste memorial descritivo foram somadas ida e volta perfazendo um total de 28.589,16m .

Mucambo, CE Dezembro de 2018.



ROTA 2 - SEDE Á OITÍS		
COMPRIMENTO	28.589,16 M	
INICIO DA ROTA	ESTE	NORTE
0	306.670.000	9.568.497.000
1	306.287.438	9.568.267.913
2	306.497.824	9.568.388.997
3	306.666.847	9.568.490.248
4	306.782.534	9.568.329.914
5	306.822.079	9.568.271.926
6	306.824.224	9.568.264.903
7	306.873.601	9.568.272.656
8	306.898.010	9.568.233.508
9	306.873.987	9.568.213.707
10	306.865.419	9.568.210.477
11	306.824.483	9.568.247.191
12	306.781.655	9.568.316.855
13	306.550.402	9.568.209.384
14	306.420.595	9.568.161.306
15	306.336.450	9.568.112.857
16	306.318.657	9.568.109.448
17	306.187.342	9.568.042.011
18	306.178.184	9.568.036.949
19	306.077.004	9.568.007.815
20	306.004.718	9.568.033.197
21	305.889.238	9.568.253.401
22	305.804.721	9.568.227.100
23	305.755.872	9.568.285.326
24	305.822.793	9.568.129.873
25	306.008.477	9.567.565.282
26	306.055.402	9.567.392.309
27	306.070.302	9.567.330.590
28	306.085.962	9.567.248.536
29	306.085.521	9.567.250.580
30	306.086.424	9.567.186.330
31	306.086.967	9.567.133.605
32	306.075.835	9.566.994.409
33	306.075.505	9.566.991.559
34	306.058.646	9.566.817.096
35	306.047.533	9.566.640.768
36	306.047.774	9.566.638.361
37	306.013.824	9.566.227.257
38	306.004.624	9.566.084.523





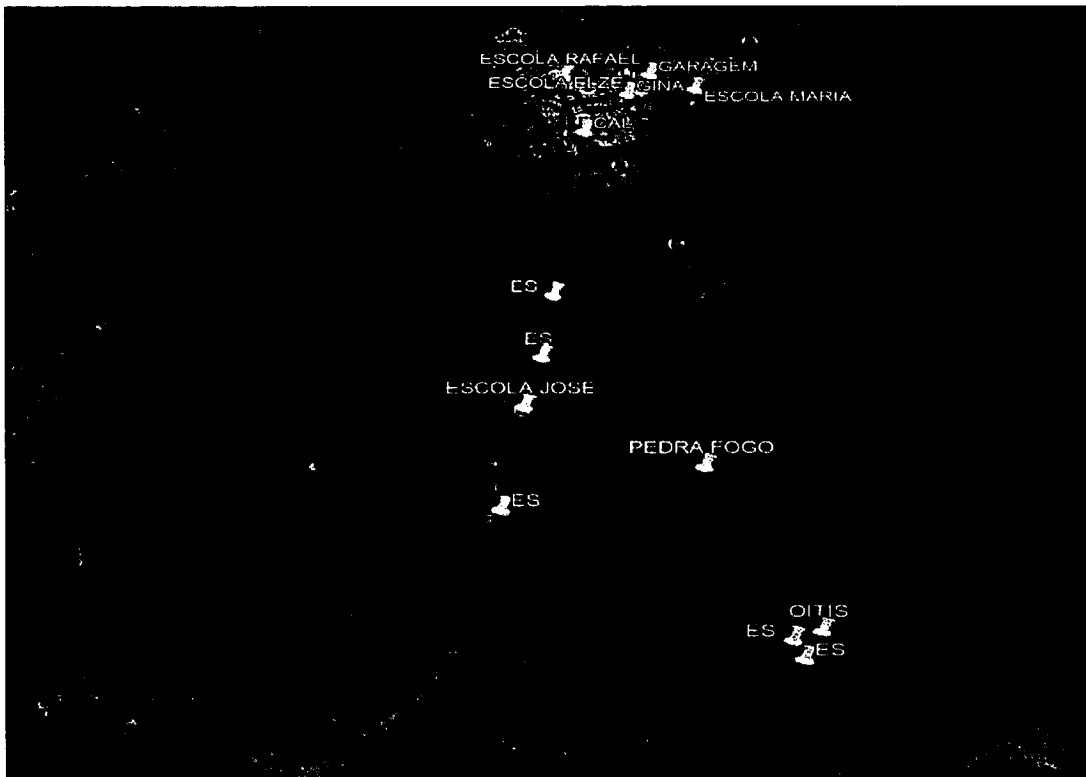
39	305.987.827	9.565.831.383
40	305.969.195	9.565.615.981
41	305.948.280	9.565.402.571
42	305.923.121	9.564.979.945
43	305.912.989	9.564.784.369
44	305.845.983	9.563.920.202
45	305.802.277	9.563.234.468
46	305.809.118	9.563.052.487
47	305.875.513	9.563.004.197
48	306.034.680	9.562.756.451
49	306.147.289	9.562.545.189
50	306.167.316	9.562.513.467
51	306.401.406	9.562.279.443
52	306.663.996	9.562.123.217
53	306.739.687	9.562.079.727
54	306.941.389	9.562.022.926
55	307.220.062	9.562.005.176
56	307.224.528	9.562.004.764
57	307.589.627	9.561.987.181
58	307.587.275	9.561.988.368
59	307.766.118	9.561.935.428
60	307.923.128	9.561.918.726
61	308.153.235	9.561.915.012
62	308.178.451	9.561.809.249
63	308.180.199	9.561.807.115
64	308.251.000	9.561.732.000
65	308.175.946	9.561.801.568
66	308.175.423	9.561.834.674
67	308.160.628	9.561.914.442
68	308.359.435	9.562.022.895
69	308.153.700	9.561.920.469
70	308.029.674	9.561.922.027
71	308.020.506	9.561.921.254
72	307.766.828	9.561.930.706
73	307.582.294	9.561.984.625
74	307.225.812	9.561.995.733
75	306.934.031	9.562.016.917
76	306.739.949	9.562.068.885
77	306.397.608	9.562.270.010
78	306.159.398	9.562.508.251
79	306.026.219	9.562.756.943
80	306.024.699	9.562.766.749



81	305.884.763	9.562.979.140
82	305.870.371	9.563.004.698
83	305.808.619	9.563.057.001
84	305.865.194	9.564.185.283
85	305.906.733	9.564.661.706
86	305.918.126	9.564.766.582
87	306.046.625	9.564.712.630
88	306.297.191	9.564.527.804
89	306.506.796	9.564.461.643
90	306.680.696	9.564.335.326
91	306.876.385	9.564.021.616
92	307.015.023	9.563.884.816
93	307.178.514	9.563.750.147
94	307.351.606	9.563.666.558
95	307.177.029	9.563.744.176
96	306.981.654	9.563.903.599
97	306.868.237	9.564.020.802
98	306.759.658	9.564.203.527
99	306.673.691	9.564.334.705
100	306.672.916	9.564.350.928
101	306.492.182	9.564.462.639
102	306.379.412	9.564.506.256
103	306.283.549	9.564.525.417
104	306.184.089	9.564.594.724
105	306.029.015	9.564.717.139
106	305.919.974	9.564.774.561
107	305.961.058	9.565.515.491
108	305.985.487	9.566.012.719
109	306.072.647	9.567.017.380
110	306.088.641	9.567.188.971
111	306.083.067	9.567.254.229
112	306.055.280	9.567.377.991
113	306.018.380	9.567.523.413
114	305.998.825	9.567.589.447
115	305.834.589	9.568.069.867
116	305.912.075	9.568.106.337
117	306.098.171	9.568.155.022
118	306.492.974	9.568.390.273

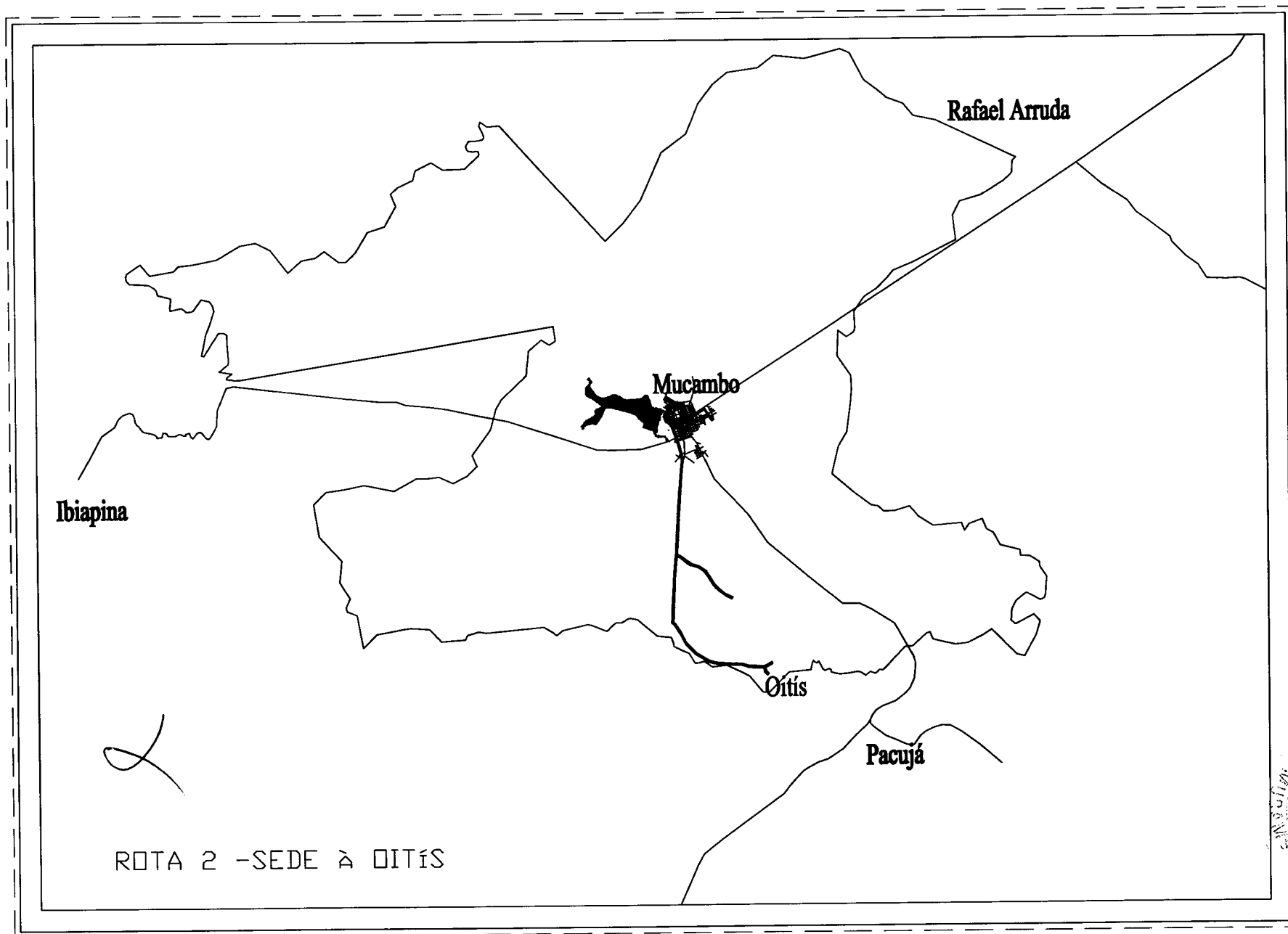


## ROTA 2 – SEDE À OITÍS

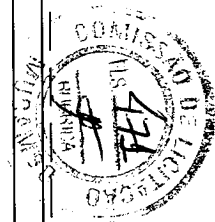


### IMAGEM DE LOCALIZAÇÃO





ROTA 2 -SEDE à OITÍS





# ROTA 03

## GEORREFERENCIAMENTO

SEDE /ALTO DO CRISTO/BARRO  
VERMELHO/CAMPO DE  
DENTRO/CAIÇARA/SEDE

COMPRIMENTO: 26.864,06 Metros

MUCAMBO  
DEZEMBRO/2018



## MEMORIAL DESCRITIVO

### ROTA 3 – SEDE/ALTO DO CRISTO/FECHADO/BARRO VERMELHO/CAMPO DE DENTRO/CAIÇARA/SEDE

Inicia-se a descrição desta rota partindo da garagem Municipal com pavimentação asfáltica de coordenadas E=306670,000 e N=9568497,000, sentido Serra da Ibiapina CE-253 deste segue com a distância de 11.370,67m até fim da pavimentação asfáltica e início de estrada vicinal as coordenadas E=296224,000 e N=9568835,000, deste segue com a distância de 8.779,28 m até a Localidade Campo de Dentro voltando para CE-253 sentido a Localidade de Caiçara, fim de estrada vicinal e início de pavimentação asfáltica com as coordenadas E=296224,000 e N=9568835,000, deste segue com a distância de 5.485,02 m até o fim pavimentação asfáltica e início de estrada vicinal com as coordenadas E=294248,000 e N=9569047,000, deste segue com a distância de 1.229,09m até a Escola Antônia Ferreira dos Santos, deste segue indo deixar os alunos em suas respectivas casas até a coordenadas E=294732,034 e N=9569324,761, sentido Localidade Caiçara finalizando a rota escolar, perfazendo um total de 26.864,06m.

Mucambo, CE Dezembro de 2018.



ROTA 3 - SEDE /ALTO DO CRISTO/B.VERMELHO/CAMPO DE  
DENTRO/CAIÇARA/SEDE.

COMPRIMENTO	26.864,06 M	
INICIO DA ROTA	ESTE	NORTE
0	306.670.000	9.568.497.000
1	306.446.550	9.568.367.549
2	306.367.499	9.568.309.403
3	306.254.638	9.568.264.860
4	305.988.253	9.568.181.020
5	305.943.165	9.568.168.362
6	306.096.941	9.567.747.637
7	305.992.995	9.567.699.620
8	305.851.159	9.567.658.228
9	305.681.882	9.567.641.924
10	305.570.427	9.567.616.843
11	305.314.636	9.567.526.772
12	305.014.572	9.567.430.518
13	304.895.532	9.567.380.353
14	304.814.362	9.567.356.230
15	304.718.398	9.567.350.234
16	304.600.946	9.567.348.233
17	304.003.357	9.567.330.751
18	303.750.118	9.567.331.187
19	303.662.367	9.567.347.174
20	303.535.470	9.567.385.242
21	303.351.635	9.567.440.183
22	303.031.180	9.567.535.531
23	302.846.267	9.567.593.208
24	302.705.784	9.567.636.886
25	302.548.898	9.567.687.989
26	302.439.400	9.567.731.828
27	302.201.648	9.567.825.605
28	302.135.654	9.567.855.024
29	302.061.174	9.567.884.608
30	301.986.094	9.567.913.019
31	301.954.518	9.567.922.470
32	301.843.519	9.567.973.155
33	301.812.908	9.567.981.931
34	301.758.432	9.567.997.938
35	301.712.530	9.568.003.803
36	301.550.731	9.568.031.203



37	301.435.338	9.568.056.183
38	301.368.477	9.568.064.063
39	301.302.917	9.568.073.842
40	301.141.465	9.568.107.009
41	301.011.188	9.568.133.387
42	300.858.343	9.568.169.240
43	300.557.662	9.568.235.089
44	300.285.944	9.568.293.650
45	300.132.859	9.568.328.738
46	300.036.296	9.568.350.898
47	299.950.343	9.568.369.425
48	299.824.335	9.568.399.945
49	299.689.807	9.568.434.432
50	299.634.308	9.568.449.212
51	299.528.106	9.568.456.131
52	299.420.914	9.568.467.923
53	299.293.658	9.568.483.279
54	299.092.859	9.568.504.896
55	298.932.432	9.568.519.508
56	298.877.449	9.568.525.363
57	298.798.933	9.568.539.812
58	298.656.583	9.568.567.453
59	298.512.536	9.568.594.589
60	298.415.866	9.568.612.784
61	298.314.679	9.568.605.769
62	298.204.014	9.568.604.576
63	297.911.797	9.568.634.687
64	297.476.007	9.568.671.628
65	296.963.369	9.568.746.619
66	296.232.387	9.568.828.805
67	296.209.997	9.568.842.614
68	296.206.137	9.568.887.755
69	296.192.831	9.569.108.245
70	296.177.788	9.569.259.464
71	296.168.157	9.569.296.839
72	296.156.497	9.569.320.652
73	296.163.005	9.569.352.046
74	296.188.086	9.569.372.486
75	296.187.770	9.569.395.630
76	296.186.279	9.569.432.765
77	296.173.196	9.569.446.286
78	296.119.118	9.569.495.202





79	296.065.510	9.569.530.438
80	295.986.395	9.569.574.016
81	295.985.605	9.569.589.798
82	296.008.673	9.569.623.199
83	296.103.821	9.569.710.959
84	296.161.441	9.569.789.499
85	296.189.042	9.569.819.642
86	296.225.940	9.569.864.272
87	296.267.310	9.569.923.440
88	296.282.781	9.569.965.727
89	296.286.062	9.569.992.425
90	296.282.240	9.570.037.445
91	296.275.853	9.570.063.541
92	296.275.712	9.570.088.230
93	296.294.625	9.570.140.597
94	296.303.979	9.570.162.183
95	296.303.706	9.570.184.107
96	296.283.097	9.570.214.798
97	296.272.083	9.570.231.901
98	296.234.559	9.570.244.332
99	296.173.024	9.570.271.211
100	296.096.268	9.570.291.019
101	296.040.912	9.570.303.532
102	295.962.842	9.570.325.930
103	295.927.145	9.570.346.385
104	295.919.966	9.570.366.430
105	295.908.062	9.570.401.125
106	295.892.938	9.570.427.039
107	295.869.893	9.570.429.519
108	295.789.251	9.570.448.586
109	295.719.352	9.570.467.252
110	295.695.219	9.570.477.454
111	295.687.813	9.570.485.362
112	295.676.324	9.570.495.418
113	295.631.039	9.570.520.018
114	295.591.819	9.570.526.556
115	295.557.368	9.570.528.508
116	295.527.095	9.570.532.957
117	295.501.368	9.570.547.777
118	295.444.657	9.570.567.963
119	295.395.361	9.570.603.013
120	295.330.608	9.570.648.026



121	295.305.837	9.570.656.669
122	295.265.258	9.570.665.341
123	295.227.296	9.570.686.178
124	295.197.820	9.570.719.124
125	295.170.571	9.570.731.249
126	295.132.284	9.570.746.578
127	295.085.005	9.570.779.275
128	295.065.694	9.570.806.846
129	294.984.333	9.570.848.088
130	294.953.398	9.570.868.610
131	294.941.566	9.570.887.250
132	294.931.157	9.570.925.725
133	294.939.411	9.570.975.699
134	294.956.835	9.571.036.192
135	294.976.967	9.571.073.842
136	295.010.896	9.571.112.925
137	295.028.848	9.571.139.059
138	295.054.787	9.571.170.451
139	295.091.299	9.571.201.850
140	295.124.534	9.571.238.290
141	295.156.824	9.571.272.252
142	295.180.898	9.571.305.577
143	295.186.106	9.571.342.721
144	295.193.630	9.571.373.823
145	295.202.273	9.571.409.144
146	295.216.576	9.571.428.546
147	295.234.207	9.571.450.531
148	295.209.340	9.571.429.259
149	295.194.420	9.571.401.411
150	295.190.039	9.571.343.980
151	295.173.586	9.571.293.350
152	295.108.092	9.571.225.760
153	295.096.324	9.571.215.458
154	295.050.651	9.571.163.754
155	294.996.606	9.571.100.334
156	294.952.752	9.571.033.063
157	294.937.576	9.570.989.848
158	294.931.600	9.570.952.179
159	294.931.453	9.570.910.636
160	294.939.107	9.570.882.297
161	294.930.422	9.570.861.106
162	294.912.753	9.570.863.885



163	294.893.694	9.570.862.307
164	294.875.497	9.570.855.804
165	294.861.033	9.570.843.338
166	294.847.143	9.570.801.151
167	294.842.033	9.570.778.670
168	294.844.991	9.570.736.074
169	294.847.879	9.570.707.483
170	294.861.423	9.570.666.572
171	294.859.772	9.570.631.812
172	294.858.382	9.570.612.116
173	294.841.893	9.570.571.221
174	294.825.444	9.570.534.499
175	294.811.843	9.570.498.592
176	294.808.435	9.570.487.795
177	294.805.771	9.570.472.257
178	294.811.687	9.570.456.934
179	294.810.854	9.570.446.403
180	294.811.014	9.570.436.084
181	294.810.351	9.570.420.811
182	294.798.315	9.570.404.887
183	294.804.503	9.570.398.997
184	294.813.105	9.570.407.443
185	294.809.588	9.570.439.094
186	294.807.269	9.570.457.504
187	294.806.926	9.570.490.931
188	294.857.435	9.570.603.331
189	294.865.269	9.570.627.014
190	294.864.061	9.570.642.924
191	294.841.470	9.570.739.461
192	294.839.702	9.570.756.767
193	294.852.870	9.570.824.534
194	294.865.927	9.570.851.871
195	294.878.049	9.570.861.276
196	294.938.129	9.570.862.662
197	294.947.268	9.570.862.007
198	294.983.906	9.570.842.621
199	295.063.888	9.570.803.842
200	295.087.166	9.570.777.923
201	295.113.109	9.570.764.179
202	295.130.824	9.570.751.062
203	295.171.132	9.570.733.486
204	295.191.263	9.570.727.184



205	295.205.927	9.570.712.704
206	295.219.787	9.570.700.218
207	295.229.651	9.570.691.553
208	295.252.097	9.570.675.745
209	295.281.818	9.570.664.000
210	295.312.377	9.570.658.794
211	295.332.902	9.570.652.370
212	295.340.570	9.570.646.223
213	295.349.649	9.570.638.860
214	295.427.903	9.570.578.158
215	295.449.991	9.570.570.564
216	295.487.930	9.570.549.305
217	295.524.592	9.570.536.262
218	295.615.542	9.570.517.525
219	295.640.688	9.570.510.551
220	295.685.675	9.570.496.585
221	295.693.120	9.570.487.180
222	295.710.533	9.570.474.083
223	295.869.231	9.570.434.989
224	295.897.176	9.570.419.340
225	295.917.969	9.570.385.117
226	295.924.009	9.570.356.204
227	295.933.526	9.570.340.816
228	295.974.102	9.570.323.567
229	296.047.620	9.570.306.419
230	296.170.505	9.570.266.388
231	296.189.924	9.570.259.247
232	296.268.139	9.570.235.220
233	296.286.206	9.570.218.695
234	296.300.195	9.570.188.491
235	296.307.662	9.570.163.638
236	296.303.959	9.570.149.506
237	296.279.527	9.570.087.887
238	296.282.023	9.570.063.306
239	296.285.543	9.570.032.467
240	296.287.832	9.570.019.829
241	296.288.374	9.570.005.203
242	296.279.325	9.569.946.213
243	296.275.738	9.569.929.627
244	296.258.840	9.569.907.451
245	296.206.466	9.569.842.241
246	296.092.626	9.569.705.130



247	296.033.511	9.569.650.102
248	295.981.798	9.569.601.904
249	295.979.707	9.569.585.745
250	295.996.157	9.569.571.514
251	296.061.011	9.569.540.035
252	296.076.839	9.569.531.591
253	296.098.740	9.569.514.628
254	296.174.629	9.569.450.966
255	296.188.859	9.569.437.800
256	296.181.540	9.569.381.953
257	296.177.179	9.569.372.037
258	296.165.230	9.569.359.319
259	296.158.658	9.569.340.737
260	296.166.401	9.569.288.315
261	296.191.874	9.569.174.087
262	296.192.945	9.569.153.896
263	296.202.806	9.568.998.719
264	296.207.875	9.568.929.106
265	296.209.918	9.568.837.460
266	296.207.542	9.568.835.551
267	296.202.709	9.568.832.563
268	296.133.434	9.568.838.972
269	296.081.273	9.568.845.210
270	295.962.621	9.568.856.880
271	295.826.575	9.568.878.032
272	295.586.391	9.568.902.408
273	295.471.103	9.568.918.224
274	295.363.783	9.568.930.326
275	295.268.316	9.568.937.784
276	295.196.866	9.568.945.157
277	295.087.280	9.568.963.360
278	295.054.059	9.568.979.296
279	295.044.099	9.569.017.916
280	295.036.796	9.569.052.581
281	295.024.533	9.569.097.025
282	295.020.205	9.569.135.106
283	295.018.048	9.569.136.960
284	295.006.572	9.569.181.453
285	295.000.255	9.569.213.531
286	295.002.821	9.569.246.695
287	295.007.613	9.569.283.738
288	294.988.653	9.569.308.579



289	294.965.790	9.569.325.964
290	294.949.006	9.569.345.924
291	294.919.748	9.569.354.919
292	294.877.748	9.569.355.252
293	294.815.624	9.569.346.058
294	294.797.743	9.569.340.593
295	294.737.033	9.569.327.459
296	294.773.226	9.569.338.161
297	294.819.888	9.569.352.737
298	294.912.922	9.569.359.132
299	294.948.304	9.569.340.886
300	295.007.104	9.569.291.670
301	294.999.077	9.569.243.051
302	294.998.487	9.569.221.996
303	295.017.840	9.569.129.689
304	295.041.378	9.569.022.615
305	295.048.197	9.568.984.729
306	295.038.538	9.568.975.351
307	295.028.722	9.568.969.024
308	295.017.879	9.568.969.670
309	294.983.039	9.568.975.177
310	294.953.629	9.568.975.834
311	294.895.201	9.568.981.808
312	294.852.221	9.568.990.324
313	294.817.296	9.568.995.884
314	294.755.850	9.569.003.672
315	294.691.846	9.569.009.141
316	294.593.042	9.569.021.057
317	294.543.913	9.569.029.144
318	294.484.666	9.569.030.934
319	294.422.770	9.569.033.831
320	294.378.644	9.569.032.740
321	294.314.648	9.569.032.883
322	294.271.913	9.569.035.649
323	294.253.164	9.569.038.284
324	294.232.767	9.569.050.712
325	294.220.642	9.569.070.442
326	294.223.723	9.569.104.520
327	294.225.566	9.569.157.328
328	294.223.085	9.569.190.270
329	294.213.146	9.569.205.701
330	294.174.437	9.569.214.664



331	294.135.768	9.569.227.026
332	294.099.976	9.569.231.242
333	294.058.416	9.569.254.768
334	294.010.638	9.569.268.043
335	293.983.850	9.569.267.077
336	293.952.214	9.569.270.185
337	293.915.081	9.569.261.864
338	293.887.697	9.569.259.137
339	293.875.177	9.569.252.531
340	293.857.868	9.569.256.495
341	293.839.169	9.569.254.903
342	293.826.108	9.569.248.853
343	293.816.686	9.569.245.292
344	293.804.301	9.569.252.789
345	293.793.508	9.569.255.580
346	293.784.274	9.569.267.798
347	293.802.613	9.569.250.045
348	293.808.001	9.569.247.510
349	293.840.321	9.569.250.972
350	293.852.760	9.569.251.974
351	293.861.582	9.569.252.995
352	293.895.881	9.569.256.361
353	293.938.585	9.569.264.180
354	293.971.551	9.569.271.602
355	294.005.353	9.569.266.970
356	294.040.727	9.569.257.064
357	294.063.666	9.569.251.172
358	294.095.194	9.569.239.451
359	294.115.818	9.569.226.567
360	294.130.138	9.569.222.582
361	294.207.855	9.569.204.142
362	294.220.857	9.569.200.076
363	294.226.649	9.569.181.352
364	294.229.649	9.569.161.800
365	294.220.462	9.569.104.369
366	294.223.149	9.569.072.638
367	294.224.388	9.569.059.902
368	294.239.021	9.569.043.569
369	294.242.248	9.569.041.438
370	294.230.678	9.569.034.542
371	294.207.808	9.569.018.368
372	294.158.031	9.568.964.855



373	294.109.593	9.568.917.954
374	294.086.228	9.568.883.042
375	294.069.711	9.568.858.633
376	294.041.932	9.568.774.243
377	294.029.000	9.568.731.000
378	294.034.517	9.568.761.752
379	294.062.208	9.568.840.236
380	294.079.107	9.568.874.458
381	294.127.654	9.568.944.099
382	294.157.691	9.568.973.151
383	294.223.853	9.569.031.007
384	294.237.631	9.569.035.994
385	294.271.762	9.569.040.468
386	294.312.902	9.569.035.615
387	294.342.063	9.569.037.113
388	294.537.177	9.569.026.044
389	294.749.774	9.568.999.459
390	295.039.018	9.568.965.535
391	295.048.701	9.568.973.910
392	295.018.953	9.569.146.876
393	294.995.281	9.569.227.544
394	294.997.462	9.569.238.434
395	295.009.037	9.569.288.454
396	294.993.882	9.569.304.836
397	294.966.354	9.569.331.985
398	294.926.955	9.569.354.764
399	294.883.544	9.569.351.555
400	294.810.724	9.569.346.437
401	294.744.592	9.569.329.748
402	294.732.034	9.569.324.761





### ROTA 3 ÔNIBUS ESCOLAR

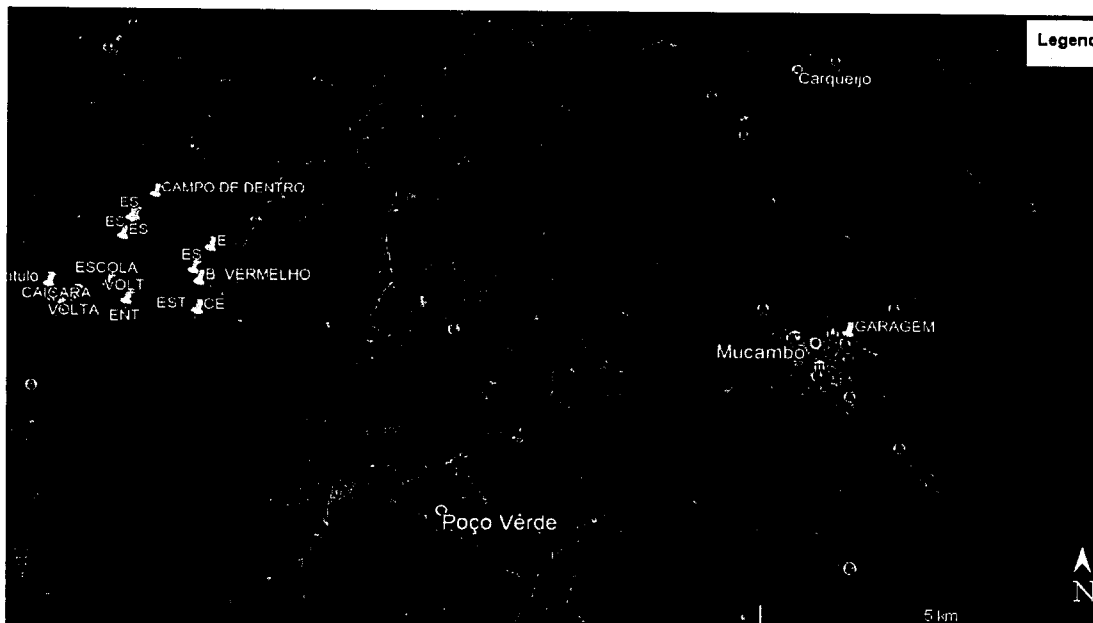
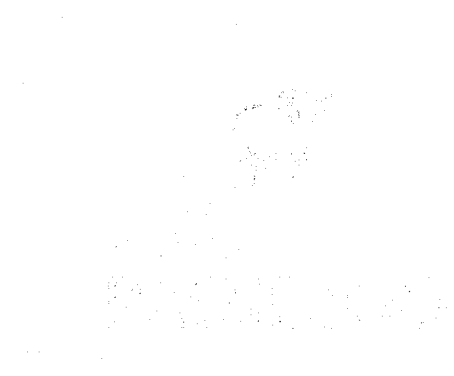
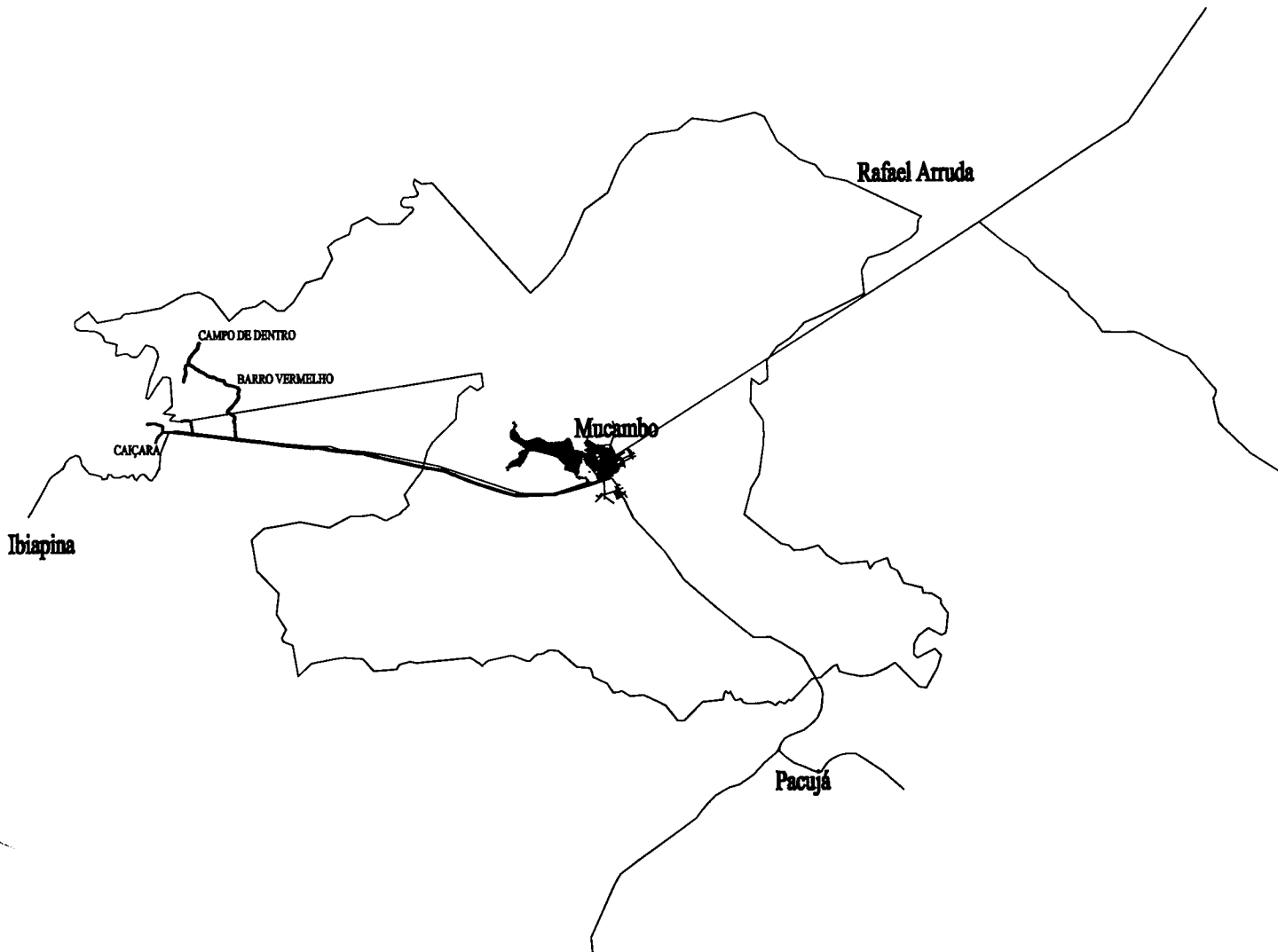
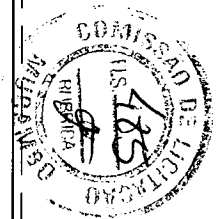


IMAGEM DE LOCALIZAÇÃO





ROTA 3 -SEDE/ALTO DO CRISTO/B.VERMELHO/CAMPO DE DENTRO/CAIÇARA/SEDE





# ROTA 04

## GEORREFERENCIAMENTO

CAMPO DE DENTRO/BARRO  
VERMELHO/FECHADO/CAIÇARA/SEDE

COMPRIMENTO: 32.873,02 Metros

MUCAMBO

DEZEMBRO/2018



## MEMORIAL DESCRITIVO

### ROTA 4 – CAMPO DE DENTRO/BARRO VERMELHO/FECHADO/CAIÇARA/SEDE

Inicia-se a descrição desta rota partindo da Localidade Campo de Dentro com estrada vicinal de coordenadas E=295235,000 e N=9571444,000, deste segue passando na localidade de Barro Vermelho com a distância de 7.173,26m até fim de estrada vicinal inicio de pavimentação asfáltica CE-253, de coordenadas E=296239,000 e N=9568829,000, deste segue com a distância de 1.130,00m até o fim de pavimentação asfáltica CE-253 e inicio de estrada vicinal de coordenadas E=295077,000 e N=9568971,000, deste segue com a distância de 615,00m até a localidade de Caiçara, deste segue voltando para garagem do município de Mucambo com a distância de 23.954,76m de coordenadas E=306670,000 e N=9568497,000 finalizando a rota escolar. Todas as distâncias relacionadas neste memorial descritivo foram somadas ida e volta perfazendo um total de 32.873,02m .

Mucambo,CE Dezembro de 2018.

PROJETO

D



ROTA 4 - CAMPO DE DENTRO/BARRO VERMELHO/FECHADO/CAIÇARA/SEDE.		
COMPRIMENTO	32.873,02 M	
INICIO DA ROTA	ESTE	NORTE
0	295.235	9.571.444
1	295.224.066	9.571.433.580
2	295.223.241	9.571.430.931
3	295.202.460	9.571.400.770
4	295.201.946	9.571.391.940
5	295.196.383	9.571.337.561
6	295.183.936	9.571.288.661
7	295.156.865	9.571.256.856
8	295.118.264	9.571.226.249
9	295.102.795	9.571.206.918
10	295.071.761	9.571.171.152
11	295.042.628	9.571.146.082
12	295.005.622	9.571.095.429
13	294.967.815	9.571.045.556
14	294.953.709	9.571.004.535
15	294.938.905	9.570.961.363
16	294.938.186	9.570.939.324
17	294.944.381	9.570.899.989
18	294.951.257	9.570.874.085
19	294.962.867	9.570.856.226
20	295.035.107	9.570.826.723
21	295.070.807	9.570.806.040
22	295.083.921	9.570.793.849
23	295.116.384	9.570.763.793
24	295.136.690	9.570.749.343
25	295.163.854	9.570.735.040
26	295.182.042	9.570.731.504
27	295.203.917	9.570.724.791
28	295.204.667	9.570.722.654
29	295.221.917	9.570.704.845
30	295.261.692	9.570.671.122
31	295.272.707	9.570.663.120
32	295.280.491	9.570.658.869
33	295.295.716	9.570.659.233
34	295.325.176	9.570.655.178
35	295.345.620	9.570.646.276
36	295.360.702	9.570.632.430
37	295.403.493	9.570.602.987
38	295.443.863	9.570.571.974

CNPJ: 25.011.748/0001-10

RUA VEREADOR MARCOLINO OLAVO, Nº600, SALA 01

GROÁIRAS - CEARÁ

CEP: 62.190-000 FONE: (88) 9.8806-7015 e-mail: projezooconsultoria@hotmail.com



39	295.511.397	9.570.543.855
40	295.562.241	9.570.521.515
41	295.613.827	9.570.524.756
42	295.423.636	9.570.587.835
43	295.433.741	9.570.579.795
44	295.446.904	9.570.571.564
45	295.475.661	9.570.555.690
46	295.507.669	9.570.546.411
47	295.525.346	9.570.539.337
48	295.535.047	9.570.533.040
49	295.563.103	9.570.526.062
50	295.594.818	9.570.526.252
51	295.620.651	9.570.519.472
52	295.635.073	9.570.514.490
53	295.662.580	9.570.505.642
54	295.696.023	9.570.492.408
55	295.710.378	9.570.475.966
56	295.723.888	9.570.466.043
57	295.764.489	9.570.455.424
58	295.831.159	9.570.441.265
59	295.885.330	9.570.430.762
60	295.907.387	9.570.422.695
61	295.914.580	9.570.407.631
62	295.932.829	9.570.357.917
63	295.940.383	9.570.341.774
64	295.964.155	9.570.328.551
65	296.013.926	9.570.314.979
66	296.057.188	9.570.303.781
67	296.134.222	9.570.279.458
68	296.187.945	9.570.264.517
69	296.218.472	9.570.252.787
70	296.285.991	9.570.229.610
71	296.297.586	9.570.211.119
72	296.311.132	9.570.184.770
73	296.315.715	9.570.163.200
74	296.305.748	9.570.137.018
75	296.293.529	9.570.099.171
76	296.287.768	9.570.051.831
77	296.301.408	9.570.021.589
78	296.296.783	9.569.992.891
79	296.288.350	9.569.939.371
80	296.253.221	9.569.887.522



81	296.196.677	9.569.814.917
82	296.171.039	9.569.780.203
83	296.129.797	9.569.732.050
84	296.077.914	9.569.684.617
85	296.039.200	9.569.643.021
86	296.008.782	9.569.619.218
87	295.999.496	9.569.602.541
88	296.001.706	9.569.581.633
89	296.027.668	9.569.559.145
90	296.071.359	9.569.535.392
91	296.108.893	9.569.512.443
92	296.147.279	9.569.477.246
93	296.187.308	9.569.449.340
94	296.200.584	9.569.438.365
95	296.202.421	9.569.425.496
96	296.200.589	9.569.398.923
97	296.191.182	9.569.381.766
98	296.179.084	9.569.363.845
99	296.172.688	9.569.347.848
100	296.172.621	9.569.346.111
101	296.170.323	9.569.323.750
102	296.181.977	9.569.279.976
103	296.194.333	9.569.232.251
104	296.201.693	9.569.176.450
105	296.211.751	9.569.063.226
106	296.222.322	9.568.829.243
107	296.333.145	9.568.817.105
108	296.846.523	9.568.756.949
109	297.400.380	9.568.688.246
110	298.077.109	9.568.616.095
111	298.133.613	9.568.606.982
112	298.334.014	9.568.624.720
113	298.417.876	9.568.624.605
114	298.494.864	9.568.605.333
115	298.620.876	9.568.583.149
116	298.757.799	9.568.553.660
117	298.887.802	9.568.530.527
118	298.927.231	9.568.527.610
119	298.957.618	9.568.523.875
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122	299.165.480	9.568.501.752



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125	298.676.357	9.568.568.216
126	298.509.260	9.568.609.535
127	298.463.011	9.568.618.465
128	298.407.322	9.568.620.563
129	298.135.484	9.568.616.130
130	297.922.915	9.568.636.696
131	297.820.321	9.568.645.880
132	297.353.949	9.568.698.991
133	296.935.841	9.568.748.187
134	296.211.407	9.568.832.169
135	295.859.632	9.568.871.228
136	295.647.466	9.568.894.459
137	295.542.417	9.568.909.290
138	295.354.031	9.568.930.828
139	295.332.992	9.568.933.931
140	295.282.047	9.568.940.152
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142	295.148.368	9.568.951.955
143	295.106.357	9.568.958.363
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145	295.065.838	9.568.993.910
146	295.046.614	9.569.043.657
147	295.039.796	9.569.087.464
148	295.027.927	9.569.149.541
149	295.019.413	9.569.179.521
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151	295.010.947	9.569.247.431
152	295.018.612	9.569.279.708
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164	294.949.385	9.569.352.422





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178	296.196.496	9.569.237.770
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183	296.197.180	9.569.401.702
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187	296.146.167	9.569.484.867
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192	296.028.761	9.569.636.679
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206	296.136.954	9.570.281.517



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209	295.938.248	9.570.352.920
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214	295.727.066	9.570.468.008
215	295.708.322	9.570.483.034
216	295.689.990	9.570.496.481
217	295.609.134	9.570.523.029
218	295.608.462	9.570.526.216
219	295.600.633	9.570.528.152
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221	295.546.426	9.570.530.770
222	295.513.561	9.570.547.385
223	295.474.753	9.570.559.317
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225	295.356.002	9.570.642.723
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247	295.202.032	9.571.407.251
248	295.217.681	9.571.427.841



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253	295.144.852	9.571.246.438
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286	296.284.417	9.569.929.776
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288	296.100.004	9.569.701.852
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297	296.176.931	9.569.366.757
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310	298.942.307	9.568.529.010
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328	302.069.027	9.567.896.594
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330	302.418.392	9.567.759.295
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336	304.670.090	9.567.362.810
337	304.845.183	9.567.369.651
338	305.045.424	9.567.438.541
339	305.405.835	9.567.561.125
340	305.676.488	9.567.653.425
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342	305.912.087	9.567.682.739
343	306.118.484	9.567.749.206
344	306.213.767	9.567.780.150
345	306.047.318	9.568.224.536
346	306.386.337	9.568.322.247
347	298.601.871	9.569.060.322



ROTA 4

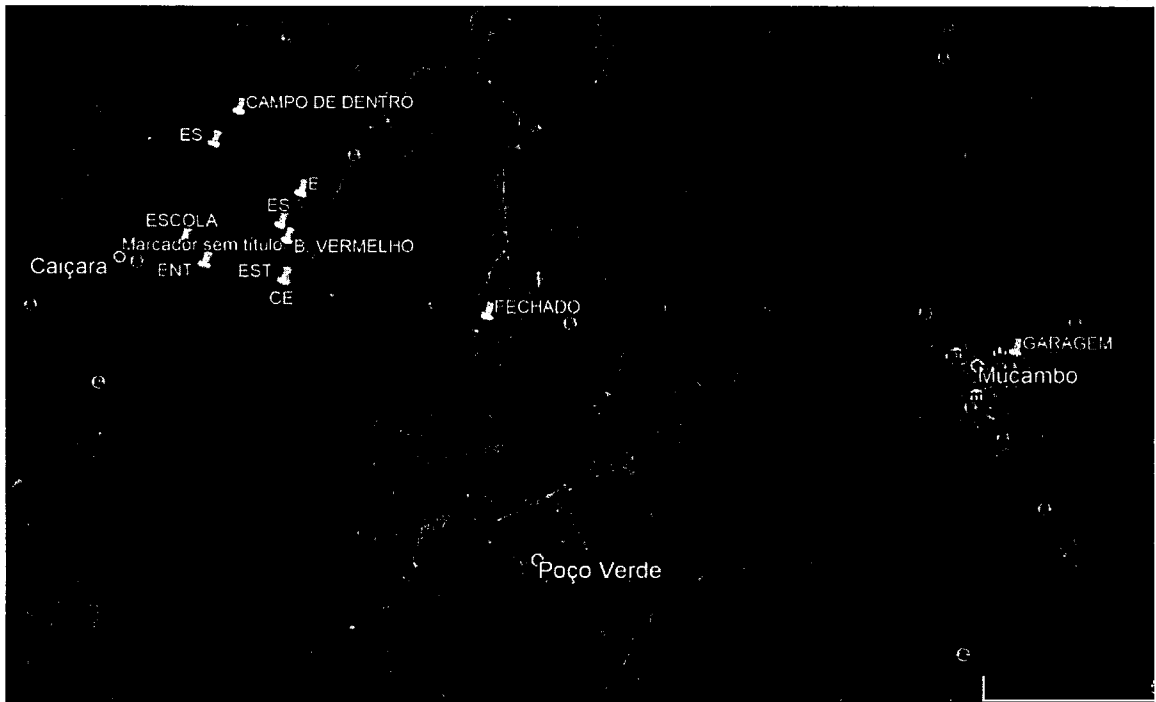
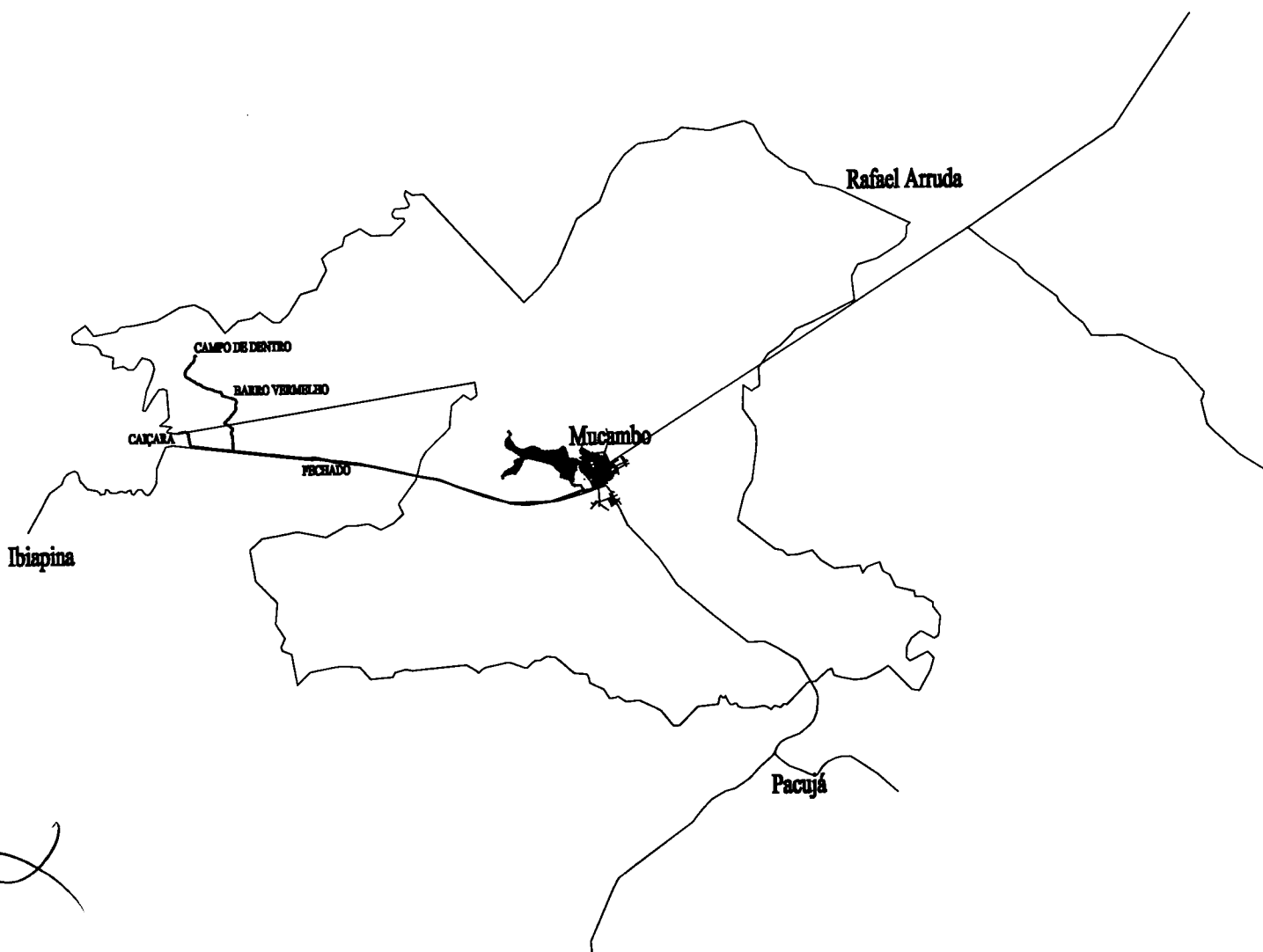


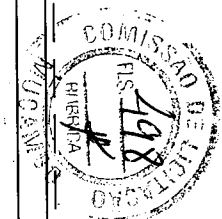
IMAGEM DE LOCALIZAÇÃO

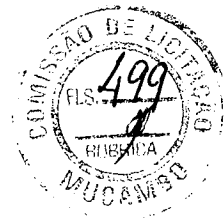




2

ROTA 4 -CAMPO DE DENTRO/B.VERMELHO/FECHADO/CAIÇARA/SEDE





# ROTA 05

## GEORREFERENCIAMENTO

SEDE/ITAIPÚ/MALHADA/BARRO  
VERMELHO/CAIÇARA

COMPRIMENTO: 32.767,40 Metros

MUCAMBO

DEZEMBRO/2018



## MEMORIAL DESCRITIVO



### ROTA 5 – SEDE /ITAIPÚ/MALHADA/BARRO VERMELHO/CAIÇARA.

Inicia-se a descrição desta rota partindo da garagem Municipal com pavimentação asfáltica de coordenadas E=306670,000 e N=9568497,000 , deste segue passando pela Localidade Alto do Cristo com a distância de 11.307,43m até o fim de pavimentação asfáltica e início de estrada vicinal de coordenadas E=30298654,000 e N=9568583,000 , deste segue até a Localidade de Itaipú, seguindo para Localidade de Malhada, Barro Vermelho e Caiçara, voltando até a Localidade de Itaipú para deixar os alunos em suas respectivas casas finalizando a rota escolar com a distância de 21.459,97m. Todas as distâncias relacionadas neste memorial descritivo foram somadas ida e volta perfazendo um total de 32.767,40m.

Mucambo, CE Dezembro de 2018.



ROTA 5 - SEDE/ITAIPÚ/MALHADA/BARRO VERMELHO/CAIÇARA.		
COMPRIMENTO	32.767,40 M	
INICIO DA ROTA	ESTE	NORTE
0	306.670.000	9.568.497.000
1	306.409.861	9.568.336.026
2	306.164.087	9.568.244.718
3	306.046.554	9.568.203.761
4	306.197.115	9.567.769.015
5	306.084.009	9.567.725.443
6	306.027.045	9.567.710.616
7	305.936.118	9.567.681.866
8	305.864.886	9.567.670.789
9	305.803.036	9.567.651.462
10	305.722.973	9.567.650.074
11	305.664.662	9.567.642.864
12	305.579.986	9.567.613.068
13	305.421.034	9.567.559.404
14	305.269.242	9.567.513.018
15	305.211.162	9.567.487.936
16	305.041.524	9.567.437.885
17	304.853.290	9.567.368.005
18	304.798.120	9.567.354.435
19	304.746.845	9.567.349.733
20	304.584.565	9.567.351.922
21	304.033.946	9.567.330.184
22	303.810.095	9.567.327.134
23	303.696.174	9.567.341.423
24	303.433.760	9.567.415.064
25	302.830.622	9.567.590.946
26	302.571.411	9.567.685.289
27	302.406.618	9.567.751.736
28	302.179.542	9.567.842.060
29	302.043.171	9.567.893.506
30	301.945.658	9.567.933.482
31	301.800.853	9.567.989.415
32	301.745.659	9.567.998.331
33	301.697.722	9.568.004.721
34	301.173.438	9.568.099.739
35	300.557.924	9.568.246.159
36	300.323.913	9.568.289.663
37	299.803.287	9.568.402.774
38	299.702.309	9.568.432.879



39	299.650.093	9.568.447.865
40	299.568.185	9.568.449.760
41	299.463.830	9.568.458.658
42	299.327.961	9.568.479.175
43	299.195.488	9.568.497.093
44	299.056.057	9.568.507.609
45	298.947.181	9.568.522.569
46	298.889.678	9.568.525.967
47	298.785.252	9.568.544.707
48	298.642.811	9.568.571.216
49	298.641.113	9.568.583.265
50	298.667.522	9.568.593.198
51	298.707.088	9.568.601.579
52	298.746.482	9.568.627.653
53	298.792.293	9.568.668.847
54	298.877.291	9.568.752.858
55	298.883.277	9.568.786.169
56	298.876.285	9.568.830.345
57	298.875.466	9.568.867.723
58	298.880.448	9.568.885.785
59	298.924.711	9.568.918.551
60	299.008.960	9.568.973.287
61	299.063.258	9.568.992.129
62	299.084.208	9.569.014.266
63	299.113.289	9.569.084.418
64	299.151.310	9.569.179.292
65	299.164.717	9.569.242.752
66	299.173.869	9.569.310.146
67	299.180.096	9.569.343.891
68	299.230.475	9.569.459.614
69	299.291.793	9.569.556.000
70	299.359.338	9.569.643.596
71	299.395.096	9.569.699.991
72	299.406.964	9.569.750.484
73	299.401.980	9.569.789.311
74	299.391.732	9.569.861.293
75	299.349.859	9.570.119.844
76	299.338.889	9.570.208.867
77	299.338.903	9.570.272.501
78	299.324.238	9.570.316.243
79	299.296.592	9.570.381.842
80	299.284.980	9.570.418.024



81	299.285.844	9.570.476.343
82	299.290.904	9.570.520.509
83	299.284.573	9.570.642.381
84	299.275.449	9.570.818.098
85	299.253.484	9.570.961.369
86	299.262.525	9.571.035.822
87	299.256.142	9.571.136.404
88	299.284.861	9.571.232.027
89	299.323.864	9.571.333.926
90	299.348.789	9.571.397.270
91	299.352.489	9.571.454.672
92	299.367.185	9.571.522.508
93	299.374.026	9.571.559.765
94	299.387.142	9.571.592.452
95	299.418.138	9.571.657.802
96	299.442.413	9.571.688.879
97	299.439.082	9.571.718.186
98	299.434.500	9.571.767.621
99	299.429.821	9.571.794.944
100	299.377.475	9.571.857.233
101	299.279.795	9.571.953.773
102	299.212.445	9.572.008.825
103	299.158.151	9.572.045.304
104	299.094.998	9.572.075.967
105	299.057.609	9.572.106.813
106	299.035.555	9.572.147.195
107	298.952.124	9.572.325.028
108	298.870.551	9.572.498.499
109	298.816.329	9.572.615.908
110	298.759.824	9.572.731.839
111	298.742.438	9.572.774.528
112	298.722.989	9.572.836.892
113	298.700.179	9.572.899.830
114	298.651.541	9.572.977.489
115	298.593.178	9.573.057.092
116	298.575.960	9.573.087.896
117	298.581.856	9.573.154.157
118	298.599.996	9.573.296.729
119	298.604.964	9.573.319.438
120	298.591.945	9.573.356.300
121	298.576.679	9.573.387.315
122	298.571.750	9.573.432.987



123	298.596.051	9.573.476.746
124	298.634.060	9.573.520.175
125	298.654.154	9.573.556.304
126	298.675.197	9.573.605.703
127	298.717.841	9.573.658.372
128	298.822.803	9.573.791.686
129	298.865.592	9.573.849.131
130	298.956.273	9.573.957.646
131	299.027.406	9.574.049.470
132	299.040.453	9.574.050.164
133	299.073.189	9.574.027.798
134	299.047.483	9.574.054.651
135	299.030.806	9.574.041.509
136	298.848.367	9.573.819.485
137	298.679.900	9.573.608.282
138	298.634.405	9.573.517.278
139	298.607.369	9.573.483.238
140	298.578.285	9.573.441.196
141	298.576.314	9.573.378.539
142	298.587.734	9.573.355.063
143	298.600.193	9.573.317.472
144	298.579.612	9.573.087.115
145	298.581.946	9.573.068.774
146	298.623.381	9.573.020.125
147	298.720.061	9.572.868.382
148	298.735.906	9.572.773.024
149	298.815.846	9.572.602.310
150	298.855.685	9.572.521.125
151	298.847.898	9.572.510.516
152	298.818.292	9.572.511.998
153	298.786.171	9.572.512.202
154	298.684.347	9.572.516.611
155	298.600.793	9.572.520.098
156	298.501.267	9.572.533.260
157	298.472.067	9.572.540.621
158	298.456.003	9.572.540.246
159	298.364.600	9.572.547.603
160	298.283.426	9.572.545.530
161	298.123.070	9.572.538.762
162	298.092.924	9.572.535.453
163	297.943.076	9.572.498.054
164	297.875.502	9.572.474.512



165	297.819.465	9.572.451.585
166	297.795.398	9.572.408.950
167	297.772.012	9.572.362.759
168	297.756.537	9.572.313.797
169	297.728.381	9.572.286.102
170	297.714.861	9.572.263.395
171	297.688.007	9.572.240.751
172	297.648.920	9.572.228.719
173	297.479.641	9.572.141.087
174	297.436.299	9.572.096.880
175	297.418.863	9.572.053.966
176	297.422.110	9.571.987.732
177	297.423.641	9.571.892.892
178	297.432.362	9.571.722.781
179	297.439.001	9.571.625.670
180	297.426.117	9.571.567.299
181	297.410.708	9.571.540.175
182	297.375.370	9.571.520.874
183	297.328.845	9.571.510.858
184	297.289.552	9.571.498.828
185	297.225.030	9.571.461.599
186	297.197.096	9.571.444.290
187	297.159.033	9.571.384.100
188	297.109.253	9.571.296.099
189	297.084.880	9.571.229.742
190	297.069.623	9.571.211.107
191	297.055.502	9.571.124.757
192	297.037.745	9.571.003.969
193	297.022.719	9.570.919.431
194	296.993.328	9.570.795.452
195	296.955.760	9.570.710.880
196	296.925.253	9.570.609.541
197	296.911.779	9.570.558.455
198	296.906.042	9.570.526.884
199	296.884.588	9.570.494.359
200	296.861.024	9.570.449.931
201	296.857.837	9.570.400.368
202	296.825.469	9.570.335.540
203	296.795.185	9.570.286.128
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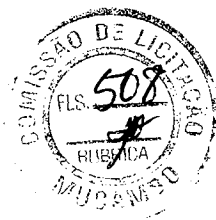


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211	296.599.551	9.570.072.649
212	296.574.030	9.570.068.689
213	296.551.042	9.570.075.066
214	296.518.925	9.570.090.737
215	296.495.869	9.570.100.517
216	296.475.090	9.570.107.173
217	296.449.823	9.570.113.487
218	296.427.738	9.570.133.949
219	296.405.363	9.570.147.965
220	296.349.279	9.570.150.876
221	296.318.675	9.570.153.694
222	296.304.019	9.570.143.051
223	296.288.148	9.570.114.584
224	296.276.454	9.570.075.454
225	296.286.895	9.570.029.294
226	296.283.023	9.569.952.449
227	296.267.707	9.569.921.045
228	296.234.492	9.569.875.579
229	296.175.619	9.569.800.035
230	296.119.168	9.569.724.449
231	296.071.966	9.569.691.292
232	296.041.099	9.569.658.257
233	295.998.193	9.569.626.878
234	295.986.221	9.569.604.366
235	295.988.805	9.569.579.909
236	296.056.479	9.569.535.960
237	296.111.260	9.569.498.393
238	296.176.480	9.569.458.637
239	296.190.578	9.569.437.242
240	296.184.518	9.569.396.331
241	296.171.916	9.569.368.603
242	296.164.751	9.569.361.870
243	296.159.597	9.569.330.777
244	296.169.087	9.569.286.730
245	296.186.035	9.569.216.977
246	296.203.043	9.569.021.584
247	296.208.093	9.568.834.853
248	296.202.342	9.568.832.438



249	296.160.555	9.568.838.185
250	295.963.873	9.568.860.692
251	295.901.917	9.568.868.057
252	295.823.574	9.568.877.568
253	295.462.873	9.568.919.509
254	295.358.261	9.568.932.040
255	295.310.092	9.568.939.815
256	295.241.095	9.568.942.153
257	295.077.248	9.568.963.025
258	295.064.757	9.568.981.864
259	295.056.483	9.568.992.868
260	295.037.209	9.569.033.661
261	295.029.304	9.569.081.581
262	295.018.240	9.569.125.592
263	295.006.360	9.569.175.372
264	295.000.458	9.569.204.423
265	294.999.045	9.569.229.149
266	295.000.092	9.569.252.955
267	295.005.995	9.569.280.521
268	295.009.572	9.569.287.324
269	294.999.774	9.569.296.226
270	294.978.749	9.569.315.589
271	294.965.040	9.569.333.499
272	294.941.173	9.569.347.156
273	294.912.000	9.569.358.000
274	294.938.275	9.569.353.890
275	294.946.193	9.569.345.914
276	294.997.136	9.569.304.019
277	295.010.861	9.569.280.839
278	295.005.419	9.569.261.522
279	295.010.715	9.569.177.264
280	295.019.564	9.569.139.973
281	295.024.222	9.569.121.485
282	295.041.557	9.569.029.207
283	295.059.053	9.568.980.744
284	295.072.579	9.568.964.513
285	295.201.267	9.568.950.135
286	295.348.560	9.568.936.442
287	295.644.612	9.568.895.075
288	296.209.828	9.568.831.025
289	296.215.559	9.568.842.221
290	296.213.634	9.568.866.904





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292	296.192.491	9.569.178.906
293	296.178.403	9.569.264.939
294	296.161.303	9.569.318.714
295	296.160.940	9.569.353.752
296	296.184.637	9.569.382.114
297	296.189.794	9.569.404.818
298	296.192.282	9.569.444.445
299	296.160.277	9.569.462.437
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302	296.051.306	9.569.544.612
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304	296.010.769	9.569.631.093
305	296.109.976	9.569.722.845
306	296.171.768	9.569.799.681
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311	296.281.556	9.570.069.545
312	296.282.303	9.570.107.593
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315	296.389.946	9.570.151.175
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317	296.446.605	9.570.117.626
318	296.506.873	9.570.096.529
319	296.574.482	9.570.072.237
320	296.598.326	9.570.075.559
321	296.614.990	9.570.091.617
322	296.627.424	9.570.118.398
323	296.648.999	9.570.157.066
324	296.693.776	9.570.199.749
325	296.756.228	9.570.238.925
326	296.798.709	9.570.281.624
327	296.848.887	9.570.396.685
328	296.857.220	9.570.430.638
329	296.872.187	9.570.476.351
330	296.903.021	9.570.531.196
331	296.908.264	9.570.567.996
332	296.921.621	9.570.608.674



333	296.956.953	9.570.723.473
334	296.990.572	9.570.795.167
335	297.008.331	9.570.884.315
336	297.022.857	9.570.941.093
337	297.063.760	9.571.190.313
338	297.084.338	9.571.234.488
339	297.117.187	9.571.317.128
340	297.195.445	9.571.446.103
341	297.241.238	9.571.473.985
342	297.324.386	9.571.512.550
343	297.408.007	9.571.534.304
344	297.421.625	9.571.546.317
345	297.425.373	9.571.557.099
346	297.442.812	9.571.655.996
347	297.415.412	9.571.930.886
348	297.415.417	9.572.039.265
349	297.422.687	9.572.070.730
350	297.430.238	9.572.091.648
351	297.451.037	9.572.119.011
352	297.541.905	9.572.182.980
353	297.617.497	9.572.220.059
354	297.638.997	9.572.228.372
355	297.675.708	9.572.233.427
356	297.710.148	9.572.261.635
357	297.741.514	9.572.303.141
358	297.757.890	9.572.320.488
359	297.766.006	9.572.351.458
360	297.796.551	9.572.416.513
361	297.811.798	9.572.444.879
362	297.839.249	9.572.462.886
363	297.885.107	9.572.482.269
364	297.918.703	9.572.490.430
365	297.960.178	9.572.504.068
366	298.091.687	9.572.529.586
367	298.123.474	9.572.534.279
368	298.181.705	9.572.544.837
369	298.241.903	9.572.546.645
370	298.339.987	9.572.545.784
371	298.524.351	9.572.532.750
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373	298.700.140	9.572.517.391
374	298.862.224	9.572.501.839



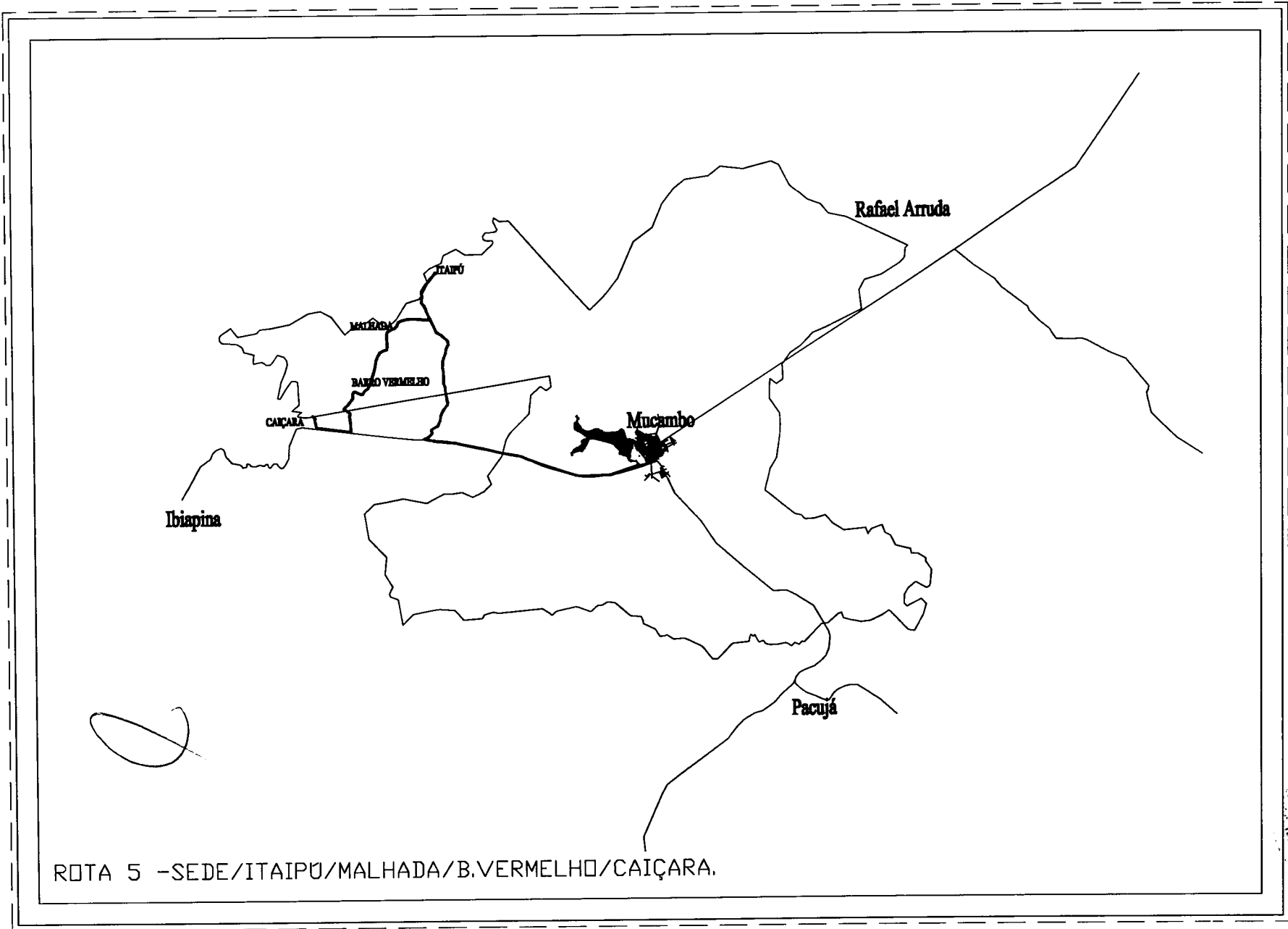
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376	298.820.988	9.572.598.553
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378	298.717.178	9.572.862.440
379	298.703.399	9.572.901.850
380	298.667.647	9.572.958.648
381	298.579.851	9.573.073.821
382	298.579.255	9.573.105.943
383	298.603.984	9.573.313.421
384	298.592.888	9.573.351.644
385	298.578.988	9.573.371.365
386	298.574.881	9.573.429.992
387	298.595.863	9.573.472.339
388	298.651.859	9.573.554.082
389	298.713.935	9.573.655.588
390	298.866.251	9.573.844.299
391	299.026.483	9.574.037.989
392	299.037.690	9.574.052.608
393	299.068.489	9.574.029.218



ROTA 5



IMAGEM DE LOCALIZAÇÃO



ROTA 5 -SEDE/ITAIPU/MALHADA/B.VERMELHO/CAIÇARA.

