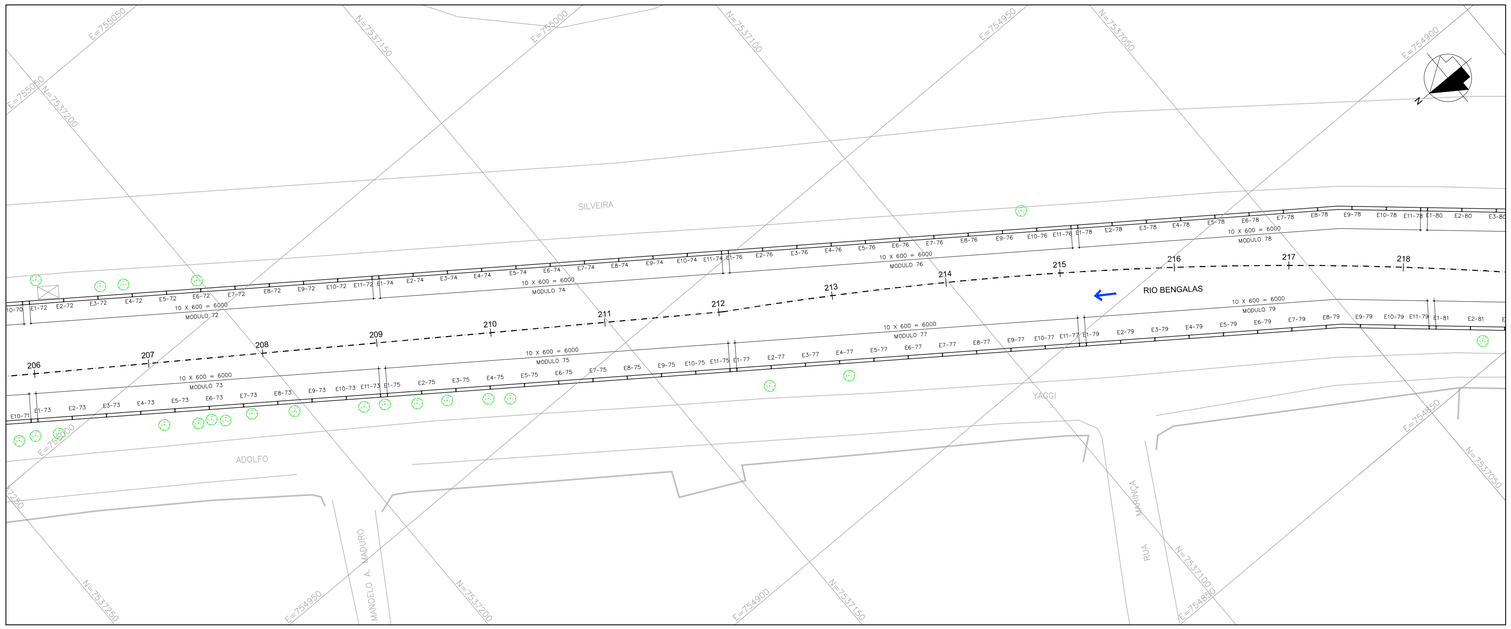
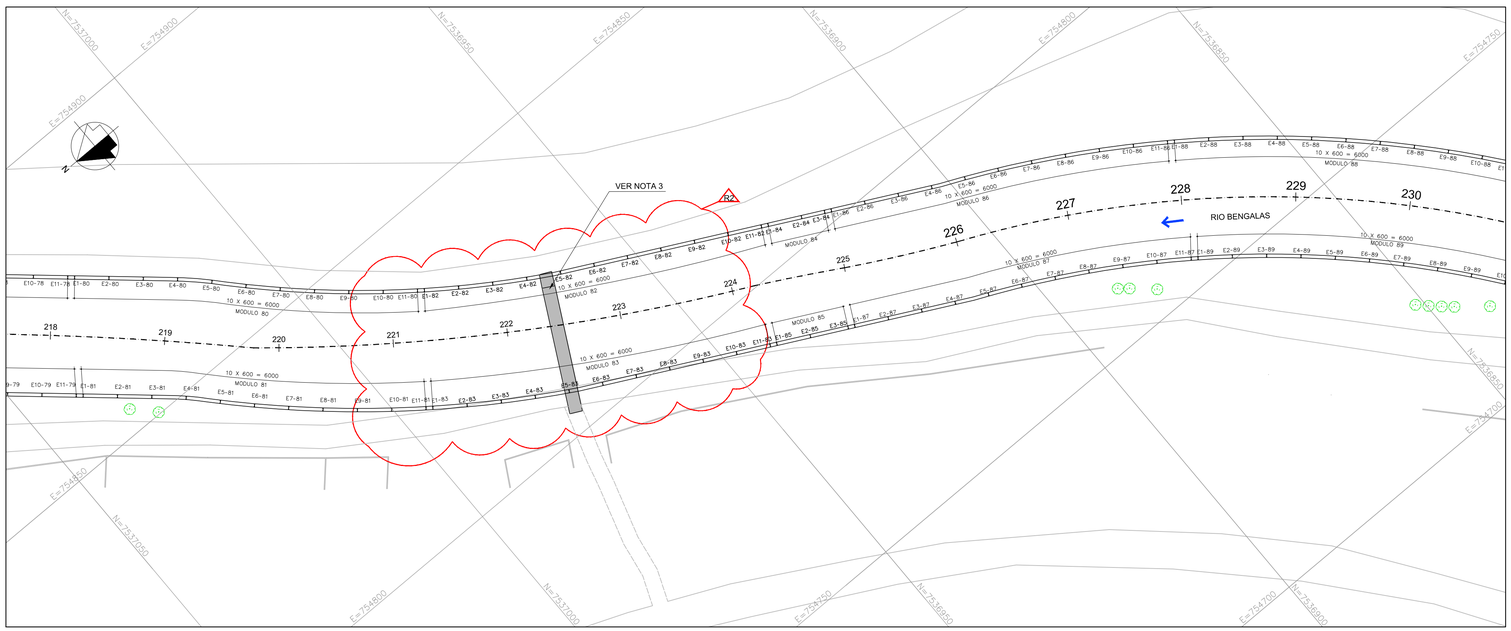


MARGEM ESQUERDA
TABELA DE COORDENADAS

ESTACA	N	E
E1-73	7.537.237,346	755.005,576
E2-73	7.537.232,483	755.002,061
E3-73	7.537.227,620	754.998,547
E4-73	7.537.222,757	754.995,032
E5-73	7.537.217,894	754.991,518
E6-73	7.537.213,031	754.988,004
E7-73	7.537.208,168	754.984,489
E8-73	7.537.203,305	754.980,975
E9-73	7.537.198,442	754.977,461
E10-73	7.537.193,579	754.973,976
E11-73	7.537.188,716	754.970,432
E1-75	7.537.187,743	754.969,729
E2-75	7.537.182,880	754.966,215
E3-75	7.537.178,017	754.962,700
E4-75	7.537.173,154	754.959,186
E5-75	7.537.168,291	754.955,671
E6-75	7.537.163,428	754.952,157
E7-75	7.537.158,565	754.948,643
E8-75	7.537.153,702	754.945,128
E9-75	7.537.148,839	754.941,614
E10-75	7.537.143,976	754.938,099
E11-75	7.537.139,113	754.934,585
E1-77	7.537.138,140	754.933,882
E2-77	7.537.133,277	754.930,368
E3-77	7.537.128,417	754.926,853
E4-77	7.537.123,551	754.923,339
E5-77	7.537.118,688	754.919,828
E6-77	7.537.113,825	754.916,310
E7-77	7.537.108,962	754.912,796
E8-77	7.537.104,099	754.909,281
E9-77	7.537.099,236	754.905,767
E10-77	7.537.094,373	754.902,253
E11-77	7.537.089,510	754.898,738
E1-79	7.537.088,537	754.898,035
E2-79	7.537.083,674	754.894,521
E3-79	7.537.078,811	754.891,007
E4-79	7.537.073,948	754.887,492
E5-79	7.537.069,085	754.883,978
E6-79	7.537.064,222	754.880,464
E7-79	7.537.059,359	754.876,949
E8-79	7.537.054,496	754.873,435
E9-79	7.537.049,816	754.869,680
E10-79	7.537.045,287	754.865,745
E11-79	7.537.040,758	754.861,809
E1-81	7.537.039,853	754.861,022
E2-81	7.537.035,324	754.857,086
E3-81	7.537.030,795	754.853,150
E4-81	7.537.026,314	754.849,161
E5-81	7.537.022,202	754.844,791
E6-81	7.537.018,033	754.840,476
E7-81	7.537.013,740	754.836,285
E8-81	7.537.009,325	754.832,221
E9-81	7.537.004,793	754.828,289
E10-81	7.537.000,148	754.824,492
E11-81	7.536.995,393	754.820,833

ESTACA	N	E
E1-83	7.536.994,429	754.820,117
E2-83	7.536.989,548	754.816,628
E3-83	7.536.984,566	754.813,284
E4-83	7.536.979,489	754.810,087
E5-83	7.536.974,320	754.807,040
E6-83	7.536.969,008	754.804,251
E7-83	7.536.963,664	754.801,523
E8-83	7.536.958,320	754.798,794
E9-83	7.536.952,976	754.796,066
E10-83	7.536.947,633	754.793,338
E11-83	7.536.942,289	754.790,610
E1-85	7.536.941,220	754.790,063
E2-85	7.536.935,876	754.787,335
E3-85	7.536.929,848	754.784,257

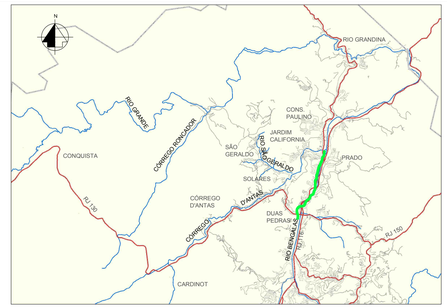


MARGEM DIREITA
TABELA DE COORDENADAS

ESTACA	N	E
E1-72	7.537.225,280	755.022,272
E2-72	7.537.220,417	755.018,758
E3-72	7.537.215,554	755.015,243
E4-72	7.537.210,691	755.011,729
E5-72	7.537.205,828	755.008,214
E6-72	7.537.200,965	755.004,700
E7-72	7.537.196,102	755.001,186
E8-72	7.537.191,239	754.997,671
E9-72	7.537.186,376	754.994,157
E10-72	7.537.181,513	754.990,643
E11-72	7.537.176,650	754.987,128
E1-74	7.537.175,677	754.986,425
E2-74	7.537.170,814	754.982,911
E3-74	7.537.165,951	754.979,397
E4-74	7.537.161,088	754.975,882
E5-74	7.537.156,225	754.972,368
E6-74	7.537.151,362	754.968,853
E7-74	7.537.146,499	754.965,339
E8-74	7.537.141,636	754.961,825
E9-74	7.537.136,773	754.958,310
E10-74	7.537.131,910	754.954,796
E11-74	7.537.127,047	754.951,281
E1-76	7.537.126,080	754.950,571
E2-76	7.537.121,211	754.947,064
E3-76	7.537.116,348	754.943,550
E4-76	7.537.111,485	754.940,035
E5-76	7.537.106,622	754.936,521
E6-76	7.537.101,759	754.933,007
E7-76	7.537.096,896	754.929,492
E8-76	7.537.092,033	754.925,978
E9-76	7.537.087,170	754.922,463
E10-76	7.537.082,307	754.918,949
E11-76	7.537.077,444	754.915,435
E1-78	7.537.076,471	754.914,732
E2-78	7.537.071,608	754.911,217
E3-78	7.537.066,745	754.907,703
E4-78	7.537.061,882	754.904,189
E5-78	7.537.057,019	754.900,674
E6-78	7.537.052,156	754.897,160
E7-78	7.537.047,293	754.893,646
E8-78	7.537.042,430	754.890,131
E9-78	7.537.037,698	754.886,442
E10-78	7.537.033,170	754.882,506
E11-78	7.537.028,641	754.878,570
E1-80	7.537.027,735	754.877,783
E2-80	7.537.023,206	754.873,847
E3-80	7.537.018,678	754.869,912
E4-80	7.537.014,150	754.865,975
E5-80	7.537.009,848	754.861,792
E6-80	7.537.005,765	754.857,396
E7-80	7.537.001,542	754.853,134
E8-80	7.536.997,181	754.849,012
E9-80	7.536.992,688	754.845,036
E10-80	7.536.988,068	754.841,208
E11-80	7.536.983,325	754.837,532

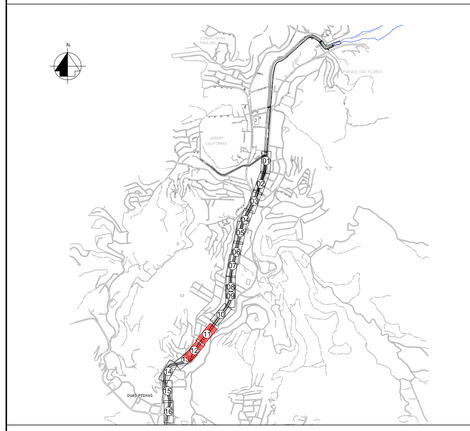
ESTACA	N	E
E1-82	7.536.982,363	754.836,816
E2-82	7.536.977,480	754.833,329
E3-82	7.536.972,486	754.830,004
E4-82	7.536.967,386	754.826,843
E5-82	7.536.962,164	754.823,887
E6-82	7.536.956,821	754.821,158
E7-82	7.536.951,477	754.818,430
E8-82	7.536.946,133	754.815,702
E9-82	7.536.940,789	754.812,973
E10-82	7.536.935,446	754.810,245
E11-82	7.536.930,102	754.807,516
E1-84	7.536.929,033	754.806,971
E2-84	7.536.923,689	754.804,242
E3-84	7.536.920,011	754.802,364

MAPA DE LOCALIZAÇÃO



RIO BENGALAS

ARTICULAÇÃO DAS PRANCHAS



LEGENDA

- ESTAQUEAMENTO
- SENTIDO DE ESCOAMENTO
- CALHA DO RIO BENGALAS
- E7-3 PERFIL METÁLICO
- TRAVESSIA VIÁRIA
- TRAVESSIA DE PEDESTRE

NOTAS

1 - MEDIDAS E COTAS EM METRO, SALVO ONDE INDICADO.
2 - PARA DETALHES DAS TRAVESSIAS VIÁRIAS VER DESENHOS:
DRM-BH00-PNF-FBE-0-ECO-G-037_042-DE - PROJETO PARA PROTEÇÃO PROVISÓRIA DAS TRAVESSIAS VIÁRIAS - PLANTA, SEÇÕES E DETALHES.

DOCUMENTOS DE REFERÊNCIA

1 - DRM-BH00-PNF-FBE-0-ECO-B-001_003-DE - LEVANTAMENTO TOPOGRÁFICO RIO BENGALAS.

Emissão	Tipo	Data	Revisado por	Resp. Técnico	Descrição
R2	B	09/09/13			Liberação da locação dos perfis nos trechos indicados
R1	A	05/09/13			Onde indicado
inicial	A	03/07/13			Desenho original

TIPOS DE EMISSÃO: A - Preliminar; B - Para liberação; C - Para conhecimento; D - Para cotação; E - Para construção; F - Conf. construído; G - Cancelado

GOVERNO DO ESTADO DO RIO DE JANEIRO
SECRETARIA DE ESTADO DO AMBIENTE
INSTITUTO ESTADUAL DO AMBIENTE

APROVAÇÃO DO INEA

PROJETO EXECUTIVO PARA AS OBRAS DE CONTROLE DE INUNDAÇÕES E RECUPERAÇÃO AMBIENTAL DO CÓRREGO D'ANTAS E RIO BENGALAS - MUNICÍPIO DE NOVA FRIBURGO - RJ

GARAMBONE PROJETOS E CONSULTORIA LTDA.
Ecologus Engenharia Consultiva

Projeto: PROJETO ESTRUTURAL
RIO BENGALAS
LOCAÇÃO DAS ESTACAS - E206 a E221

Responsável pelo projeto: VICENTE GARAMBONE FILHO | CREA: RJ16.661-D | Visto:
Número do INEA: DRM-BH00-PNF-FBE-0-ECO-E-006-DE | Data: 03/07/2013 | Prancha: 06/08
Número do projeto: INE06-RB-ET-PE-DE-006-R2 | Escala: 1:500

DRM-BH00-PNF-FBE-0-ECO-E-001_008-DE