

ESTADO DE GOIÁS

SECRETARIA DE INFRAESTRUTURA

Agência Goiana de Infraestrutura e Transporte - GOINFRA

ANTEPROJETO DE ENGENHARIA PARA CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS

Rodovia: Estrada Chapada das Covas
Trecho: Entr. GO-437 / Entr. GO-010
Segmento: Km 0,00 – km 54,88
Extensão: 54,88 km

VOLUME 3A – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES DE TERRAPLENAGEM

CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS

ABRIL / 2026

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Agência Goiana de Infraestrutura e Transporte - GOINFRA



GERÊNCIA DE PROJETOS DE OBRAS RODOVIÁRIAS

ANTEPROJETO DE ENGENHARIA PARA CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS

VOLUME 3A – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES DE TERRAPLENAGEM



CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS

COORDENAÇÃO: Gerência de Projetos de Obras Rodoviárias
ELABORAÇÃO: Basitec Projetos e Construções Ltda

	Volume 3A – Notas de Serviço e Cálculo de Volumes de Terraplenagem	REV.: 00	
	ANTEPROJETO DE ENGENHARIA PARA CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS	FOLHA: 2	

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	Volume 3A – Notas de Serviço e Cálculo de Volumes de Terraplenagem	REV.: 00	
	ANTEPROJETO DE ENGENHARIA PARA CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS	FOLHA: 3	

1. APRESENTAÇÃO

A empresa Basitec Projetos e Construções LTDA apresenta o Volume 3A – Nota de Serviço e Cálculos de Volumes de Terraplenagem, para o Anteprojeto de Engenharia para a construção da Rodovia Estrada Chapada das Covas, segmento de 54,88 quilômetros com início no entroncamento com a rodovia GO-437 e final no entroncamento com a rodovia GO-010.

As informações relativas ao anteprojeto foram organizadas quatro volumes, conforme as descrições apresentadas abaixo:

- **Volume 1 – Relatório de Projeto:** que apresenta a memória descritiva contendo todos os estudos, dimensionamentos, memórias de cálculos utilizados na elaboração do Anteprojeto e as desapropriações, incluindo também metodologias adotadas.
- **Volume 2 – Documentação Gráfica:** que contém todos os desenhos e detalhes dos anteprojeto desenvolvidos e a definição das áreas a serem desapropriadas. Esse volume está dividido em três tomos.
- **Volume 3A – Nota de Serviço e Cálculos de Volumes de Terraplenagem:** que traz as memórias de cálculo dos volumes de terraplenagem e as respectivas notas de serviço.
- **Volume 3B – Estudos Geotécnicos:** em que constam as fichas resumos do estudo do subleito e das ocorrências de materiais para pavimentação.
- **Volume 4 – Orçamento:** demonstra o preço máximo estimado para a contratação do empreendimento composto pelo custo global da obra, BDI e, opcionalmente, adicional de risco.

1.1 DADOS DA RODOVIA

- Rodovia: Estrada Chapada das Covas
- Trecho: Entr. GO-437 / Entr. GO-010
- Segmento: Km 0,00 – km 54,88
- Extensão: 54,88 km

Coordenação Geral dos Trabalhos:



Eng. Rafael Basilio – CREA-GO 8.130/D

1.2 MAPA DE SITUAÇÃO

A figura seguinte apresenta o mapa de situação do trecho, destacando a região onde se desenvolve a rodovia Estrada Chapa das Covas.

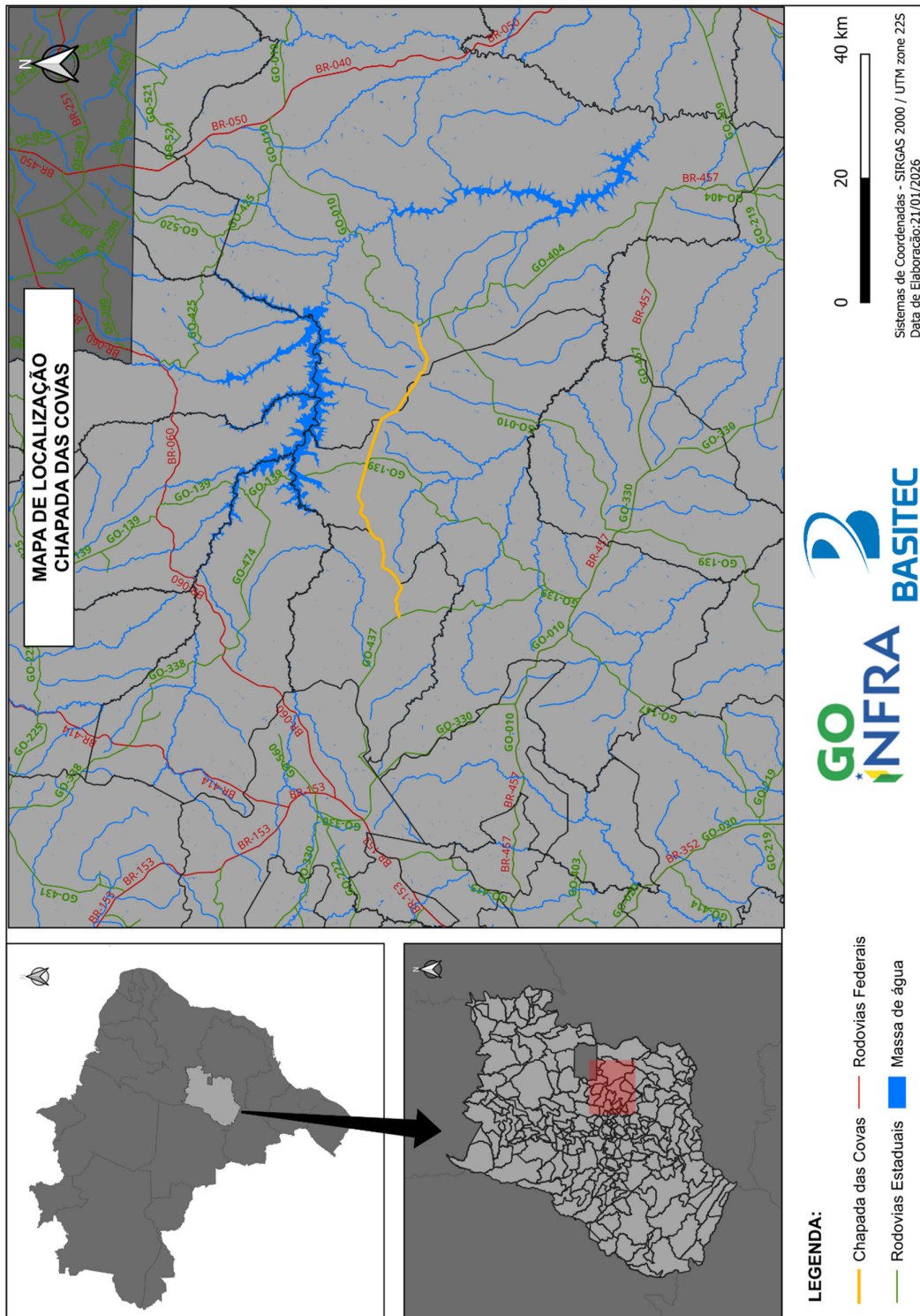




Figura 1- Mapa de localização

	Volume 3A – Notas de Serviço e Cálculo de Volumes de Terraplenagem	REV.: 00	
	ANTEPROJETO DE ENGENHARIA PARA CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS	FOLHA: 5	

2. CÁLCULOS DE VOLUMES DE TERRAPLENAGEM

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
0+0,000	0,00	0,00	0,00	0,00	-	-
1+0,000	0,00	0,00	0,00	0,00	-	-
2+0,000	0,00	0,00	5,13	51,26	-	51,26
3+0,000	0,00	0,00	5,86	109,90	-	161,16
4+0,000	0,00	0,00	5,81	116,76	-	277,92
5+0,000	0,00	0,00	6,67	124,79	-	402,71
6+0,000	0,00	0,00	7,57	142,32	-	545,03
7+0,000	0,00	0,00	7,45	150,15	-	695,19
8+0,000	0,00	0,00	5,68	131,31	-	826,49
9+0,000	0,00	0,00	6,48	121,58	-	948,07
10+0,000	0,00	0,00	7,57	140,43	-	1.088,51
11+0,000	0,00	0,00	9,61	171,81	-	1.260,31
12+0,000	0,00	0,00	11,73	213,49	-	1.473,80
13+0,000	0,00	0,00	15,22	269,58	-	1.743,38
14+0,000	0,00	0,00	18,18	334,05	-	2.077,43
15+0,000	0,00	0,00	24,49	426,67	-	2.504,10
16+0,000	0,00	0,00	31,07	555,51	-	3.059,61
17+0,000	0,00	0,00	39,85	709,20	-	3.768,81
18+0,000	0,00	0,00	46,96	868,13	-	4.636,94
19+0,000	0,00	0,00	53,92	1.008,82	-	5.645,76
20+0,000	0,00	0,00	60,56	1.144,85	-	6.790,61
21+0,000	0,00	0,00	62,48	1.230,45	-	8.021,07
22+0,000	0,00	0,00	60,33	1.228,35	-	9.249,41
23+0,000	0,00	0,00	54,61	1.149,56	-	10.398,97
24+0,000	0,00	0,00	50,69	1.053,03	-	11.452,00
25+0,000	0,01	0,06	44,06	947,49	0,06	12.399,49
26+0,000	0,00	0,06	38,57	826,36	0,11	13.225,85
27+0,000	0,00	0,00	32,57	711,61	0,11	13.937,46
28+0,000	0,00	0,01	25,08	576,77	0,12	14.514,23
29+0,000	0,00	0,01	20,61	457,22	0,14	14.971,45
30+0,000	0,01	0,05	14,45	350,91	0,19	15.322,36
31+0,000	0,00	0,06	9,19	236,67	0,25	15.559,04
32+0,000	0,00	0,00	5,17	143,58	0,25	15.702,61
33+0,000	0,00	0,00	2,78	79,51	0,25	15.782,12
34+0,000	0,20	1,99	1,29	40,74	2,24	15.822,86
35+0,000	0,10	3,02	1,74	30,30	5,26	15.853,16
36+0,000	0,00	1,03	2,10	38,43	6,30	15.891,60
37+0,000	0,00	0,00	2,42	45,28	6,30	15.936,87
38+0,000	0,01	0,10	1,84	42,63	6,39	15.979,51
39+0,000	0,03	0,35	1,47	33,10	6,75	16.012,61
40+0,000	2,07	20,97	0,73	22,02	27,72	16.034,63
41+0,000	1,04	31,10	2,69	34,22	58,82	16.068,84
42+0,000	0,02	10,60	2,99	56,82	69,41	16.125,67
43+0,000	0,04	0,64	3,47	64,57	70,05	16.190,24
44+0,000	0,23	2,76	5,37	88,34	72,81	16.278,58
45+0,000	0,00	2,35	12,77	181,35	75,16	16.459,93
46+0,000	0,00	0,00	18,06	308,29	75,16	16.768,22
47+0,000	0,00	0,00	24,78	428,40	75,16	17.196,63
48+0,000	0,00	0,00	28,79	535,68	75,16	17.732,31
49+0,000	0,00	0,00	35,05	638,41	75,16	18.370,73
50+0,000	0,00	0,00	41,93	769,80	75,16	19.140,53

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
51+0,000	0,00	0,00	42,63	845,54	75,16	19.986,07
52+0,000	0,00	0,00	53,18	958,06	75,16	20.944,13
53+0,000	0,00	0,00	47,13	1.003,11	75,16	21.947,24
54+0,000	0,00	0,00	45,87	930,00	75,16	22.877,24
55+0,000	0,00	0,00	44,40	902,68	75,16	23.779,92
56+0,000	0,00	0,00	40,59	849,68	75,16	24.629,60
57+0,000	0,00	0,00	38,09	786,82	75,16	25.416,42
58+0,000	0,00	0,00	32,16	703,73	75,16	26.120,15
59+0,000	0,01	0,12	35,30	675,26	75,28	26.795,41
60+0,000	0,00	0,12	28,19	635,18	75,40	27.430,59
61+0,000	0,00	0,01	22,08	503,60	75,41	27.934,20
62+0,000	0,00	0,00	20,02	421,84	75,41	28.356,04
63+0,000	0,00	0,01	13,34	334,37	75,42	28.690,41
64+0,000	0,00	0,01	10,07	234,83	75,43	28.925,23
65+0,000	0,00	0,00	8,16	183,08	75,43	29.108,32
66+0,000	0,00	0,00	8,58	168,18	75,43	29.276,49
67+0,000	0,00	0,00	9,19	178,49	75,43	29.454,98
68+0,000	0,00	0,00	7,25	165,12	75,44	29.620,10
69+0,000	0,00	0,00	6,77	140,92	75,44	29.761,02
70+0,000	0,00	0,00	5,29	121,31	75,44	29.882,33
71+0,000	0,24	2,32	3,52	88,73	77,75	29.971,06
72+0,000	0,00	2,35	3,40	69,69	80,10	30.040,75
73+0,000	0,00	0,02	3,50	69,17	80,13	30.109,92
74+0,000	0,00	0,00	4,61	81,14	80,13	30.191,05
75+0,000	0,00	0,00	9,12	137,33	80,13	30.328,39
76+0,000	0,00	0,00	12,63	217,45	80,13	30.545,84
77+0,000	0,00	0,00	18,64	312,62	80,13	30.858,46
78+0,000	0,00	0,00	22,22	408,60	80,13	31.267,06
79+0,000	0,00	0,00	26,72	489,41	80,13	31.756,47
80+0,000	0,00	0,00	31,89	586,08	80,13	32.342,55
81+0,000	0,00	0,00	29,47	613,66	80,13	32.956,21
82+0,000	0,00	0,00	29,80	592,73	80,13	33.548,95
83+0,000	0,00	0,00	44,29	740,87	80,13	34.289,81
84+0,000	0,00	0,00	46,11	903,93	80,13	35.193,74
85+0,000	0,00	0,00	46,05	921,59	80,13	36.115,33
86+0,000	0,00	0,00	43,27	893,25	80,13	37.008,58
87+0,000	0,00	0,00	39,99	832,29	80,13	37.840,87
88+0,000	0,00	0,00	35,32	752,81	80,13	38.593,69
89+0,000	0,00	0,00	28,41	637,59	80,13	39.231,27
90+0,000	0,01	0,08	21,69	501,86	80,21	39.733,13
91+0,000	0,00	0,08	19,79	415,20	80,29	40.148,33
92+0,000	0,00	0,01	16,18	359,54	80,30	40.507,87
93+0,000	0,00	0,01	15,45	316,34	80,31	40.824,21
94+0,000	0,03	0,30	9,14	246,01	80,61	41.070,21
95+0,000	0,00	0,30	6,51	156,74	80,91	41.226,95
96+0,000	0,05	0,48	3,37	99,45	81,39	41.326,40
97+0,000	0,28	3,24	2,03	54,65	84,62	41.381,05
98+0,000	0,00	2,77	1,79	38,51	87,40	41.419,56
99+0,000	0,00	0,00	1,16	29,55	87,40	41.449,11
100+0,000	0,00	0,00	1,46	26,14	87,40	41.475,25
101+0,000	0,00	0,00	1,91	33,64	87,40	41.508,89

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
102+0,000	0,00	0,00	3,17	50,73	87,40	41.559,62
103+0,000	0,00	0,00	3,60	67,67	87,40	41.627,29
104+0,000	0,00	0,00	5,41	90,10	87,40	41.717,38
105+0,000	0,00	0,00	6,36	117,69	87,40	41.835,07
106+0,000	0,00	0,00	7,95	143,14	87,40	41.978,22
107+0,000	0,00	0,00	9,06	170,13	87,40	42.148,35
108+0,000	0,00	0,00	10,89	199,55	87,40	42.347,90
109+0,000	0,00	0,00	11,60	224,96	87,40	42.572,86
110+0,000	0,00	0,00	11,02	226,22	87,40	42.799,08
111+0,000	0,00	0,00	13,65	246,70	87,40	43.045,78
112+0,000	0,00	0,00	14,25	279,03	87,40	43.324,81
113+0,000	0,00	0,00	15,07	293,25	87,40	43.618,06
114+0,000	0,00	0,00	14,85	299,15	87,40	43.917,21
115+0,000	0,00	0,00	14,44	292,82	87,40	44.210,03
116+0,000	0,00	0,00	14,82	292,60	87,40	44.502,63
117+0,000	0,00	0,00	11,51	263,33	87,40	44.765,96
118+0,000	0,00	0,00	14,18	256,90	87,40	45.022,86
119+0,000	0,00	0,00	13,20	273,79	87,40	45.296,65
120+0,000	0,00	0,00	14,79	279,87	87,40	45.576,52
121+0,000	0,00	0,00	16,24	310,29	87,40	45.886,82
122+0,000	0,00	0,00	16,44	326,79	87,40	46.213,61
123+0,000	0,00	0,00	17,10	335,38	87,40	46.548,98
124+0,000	0,00	0,00	17,60	347,02	87,40	46.896,00
125+0,000	0,00	0,00	16,95	345,51	87,40	47.241,51
126+0,000	0,00	0,00	16,92	338,70	87,40	47.580,21
127+0,000	0,00	0,00	18,70	356,19	87,40	47.936,40
128+0,000	0,00	0,00	18,41	371,10	87,40	48.307,50
129+0,000	0,00	0,00	18,56	369,77	87,40	48.677,27
130+0,000	0,00	0,00	18,22	367,82	87,40	49.045,09
131+0,000	0,00	0,00	18,30	365,17	87,40	49.410,26
132+0,000	0,00	0,00	18,40	367,02	87,40	49.777,29
133+0,000	0,00	0,00	16,93	353,31	87,40	50.130,59
134+0,000	0,00	0,00	17,58	345,12	87,40	50.475,72
135+0,000	0,00	0,00	16,45	340,44	87,40	50.816,16
136+0,000	0,00	0,00	13,08	295,54	87,40	51.111,71
137+0,000	0,00	0,00	12,96	261,18	87,40	51.372,89
138+0,000	0,00	0,00	9,64	227,16	87,40	51.600,06
139+0,000	0,00	0,00	8,52	182,51	87,40	51.782,56
140+0,000	0,00	0,00	7,78	163,65	87,40	51.946,22
141+0,000	0,00	0,00	6,78	146,22	87,40	52.092,44
142+0,000	0,00	0,00	6,14	129,96	87,40	52.222,40
143+0,000	0,00	0,00	6,20	124,21	87,40	52.346,61
144+0,000	0,00	0,00	5,50	117,65	87,40	52.464,26
145+0,000	0,00	0,00	6,80	123,59	87,40	52.587,85
146+0,000	0,00	0,00	6,04	129,00	87,40	52.716,85
147+0,000	0,00	0,00	6,84	129,43	87,40	52.846,28
148+0,000	0,00	0,00	7,36	142,60	87,40	52.988,88
149+0,000	0,00	0,00	9,31	166,88	87,40	53.155,76
150+0,000	0,00	0,00	8,89	181,90	87,40	53.337,65
151+0,000	0,00	0,00	8,26	171,48	87,40	53.509,13

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
152+0,000	0,00	0,00	8,45	167,04	87,40	53.676,17
153+0,000	0,00	0,00	10,04	184,86	87,40	53.861,03
154+0,000	0,00	0,00	9,10	191,37	87,40	54.052,40
155+0,000	0,00	0,00	9,20	182,93	87,40	54.235,33
156+0,000	0,00	0,00	12,75	219,47	87,40	54.454,80
157+0,000	0,00	0,00	13,91	266,66	87,40	54.721,47
158+0,000	0,00	0,00	16,12	300,37	87,40	55.021,83
159+0,000	0,00	0,00	18,49	346,11	87,40	55.367,94
160+0,000	0,00	0,00	21,68	401,73	87,40	55.769,67
161+0,000	0,00	0,00	24,04	457,29	87,40	56.226,96
162+0,000	0,00	0,00	24,02	480,67	87,40	56.707,63
163+0,000	0,00	0,00	23,71	477,34	87,40	57.184,98
164+0,000	0,00	0,00	23,45	471,59	87,40	57.656,56
165+0,000	0,00	0,00	29,58	530,23	87,40	58.186,79
166+0,000	0,00	0,00	39,66	692,36	87,40	58.879,15
167+0,000	0,00	0,00	45,41	850,70	87,40	59.729,85
168+0,000	0,00	0,00	46,74	921,51	87,40	60.651,36
169+0,000	0,00	0,00	44,61	913,52	87,40	61.564,88
170+0,000	0,00	0,00	43,67	882,82	87,40	62.447,70
171+0,000	0,00	0,00	42,33	860,02	87,40	63.307,72
172+0,000	0,00	0,00	36,10	784,33	87,40	64.092,05
173+0,000	0,00	0,00	31,20	673,02	87,40	64.765,07
174+0,000	0,00	0,00	22,14	533,45	87,40	65.298,53
175+0,000	0,00	0,00	16,48	386,24	87,40	65.684,77
176+0,000	0,00	0,00	12,59	290,72	87,40	65.975,48
177+0,000	0,00	0,00	11,78	243,68	87,40	66.219,16
178+0,000	0,00	0,00	10,62	223,98	87,40	66.443,13
179+0,000	0,00	0,00	8,72	193,40	87,40	66.636,53
180+0,000	0,00	0,00	8,11	168,27	87,40	66.804,80
181+0,000	0,00	0,00	11,13	192,42	87,40	66.997,22
182+0,000	0,00	0,00	13,58	247,15	87,40	67.244,36
183+0,000	0,00	0,00	13,46	270,37	87,40	67.514,73
184+0,000	0,00	0,00	12,66	261,19	87,40	67.775,92
185+0,000	0,00	0,00	11,94	246,02	87,40	68.021,94
186+0,000	0,00	0,00	11,40	233,39	87,40	68.255,32
187+0,000	0,00	0,00	9,27	206,74	87,40	68.462,07
188+0,000	0,00	0,00	8,81	180,86	87,40	68.642,92
189+0,000	0,00	0,00	9,93	187,41	87,40	68.830,33
190+0,000	0,00	0,00	8,61	185,39	87,40	69.015,73
191+0,000	0,00	0,00	7,48	160,88	87,40	69.176,60
192+0,000	0,00	0,00	5,12	125,99	87,40	69.302,59
193+0,000	0,00	0,00	5,84	109,56	87,40	69.412,15
194+0,000	0,00	0,00	6,39	122,26	87,40	69.534,41
195+0,000	0,00	0,00	8,54	149,27	87,40	69.683,68
196+0,000	0,00	0,00	10,90	194,37	87,40	69.878,05
197+0,000	0,00	0,00	13,41	243,11	87,40	70.121,16
198+0,000	0,00	0,00	13,88	272,91	87,40	70.394,07
199+0,000	0,00	0,00	13,69	275,71	87,40	70.669,78
200+0,000	0,00	0,00	12,65	263,37	87,40	70.933,15
201+0,000	0,00	0,00	7,81	204,57	87,40	71.137,72

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
202+0,000	0,02	0,22	3,05	108,55	87,62	71.246,27
203+0,000	0,36	3,80	3,40	64,50	91,42	71.310,77
204+0,000	0,08	4,43	4,04	74,49	95,84	71.385,26
205+0,000	0,00	0,85	7,13	111,70	96,69	71.496,96
206+0,000	0,00	0,00	6,64	137,70	96,69	71.634,65
207+0,000	0,00	0,00	12,34	189,84	96,69	71.824,50
208+0,000	0,00	0,00	15,13	274,71	96,69	72.099,20
209+0,000	0,00	0,00	15,82	309,55	96,69	72.408,75
210+0,000	0,00	0,00	17,54	333,63	96,69	72.742,39
211+0,000	0,00	0,00	18,22	357,61	96,69	73.099,99
212+0,000	0,00	0,00	17,34	355,63	96,69	73.455,63
213+0,000	0,00	0,00	16,34	336,86	96,69	73.792,49
214+0,000	0,00	0,00	13,35	296,89	96,69	74.089,38
215+0,000	0,00	0,00	12,81	261,58	96,69	74.350,95
216+0,000	0,00	0,00	11,24	240,55	96,69	74.591,50
217+0,000	0,00	0,00	10,60	218,47	96,69	74.809,97
218+0,000	0,00	0,00	9,32	199,27	96,69	75.009,24
219+0,000	0,00	0,00	8,72	180,47	96,69	75.189,70
220+0,000	0,00	0,00	10,93	196,54	96,69	75.386,24
221+0,000	0,00	0,00	13,49	244,24	96,69	75.630,48
222+0,000	0,00	0,00	16,56	300,52	96,69	75.931,00
223+0,000	0,00	0,00	21,06	376,20	96,69	76.307,20
224+0,000	0,00	0,00	25,50	465,64	96,69	76.772,83
225+0,000	0,00	0,00	28,04	535,46	96,69	77.308,30
226+0,000	0,00	0,00	29,47	575,16	96,69	77.883,46
227+0,000	0,00	0,00	32,21	616,84	96,69	78.500,30
228+0,000	0,00	0,00	33,71	659,19	96,69	79.159,49
229+0,000	0,00	0,00	34,47	681,77	96,69	79.841,25
230+0,000	0,00	0,00	32,94	674,07	96,69	80.515,32
231+0,000	0,00	0,00	31,42	643,58	96,69	81.158,90
232+0,000	0,00	0,00	28,48	599,03	96,69	81.757,93
233+0,000	0,00	0,00	27,58	560,65	96,69	82.318,58
234+0,000	0,00	0,00	30,41	579,90	96,69	82.898,48
235+0,000	0,00	0,00	37,30	677,03	96,69	83.575,51
236+0,000	0,00	0,00	46,81	841,08	96,69	84.416,59
237+0,000	0,00	0,00	50,23	970,39	96,69	85.386,98
238+0,000	0,00	0,00	41,49	917,21	96,69	86.304,19
239+0,000	0,00	0,00	28,65	701,37	96,69	87.005,56
240+0,000	0,00	0,00	18,38	470,28	96,69	87.475,83
241+0,000	0,01	0,06	5,88	242,62	96,75	87.718,45
242+0,000	2,62	26,28	0,62	64,95	123,03	87.783,40
243+0,000	8,40	110,22	0,00	6,16	233,25	87.789,55
244+0,000	8,46	168,74	0,00	0,00	401,99	87.789,55
245+0,000	5,39	138,39	0,00	0,00	540,38	87.789,55
246+0,000	3,38	87,14	0,49	5,01	627,51	87.794,56
247+0,000	1,88	51,91	1,46	19,87	679,42	87.814,43
248+0,000	0,00	18,58	2,74	42,49	698,00	87.856,92
249+0,000	0,31	3,05	2,70	54,93	701,05	87.911,85
250+0,000	0,00	3,02	14,11	168,27	704,08	88.080,12
251+0,000	0,00	0,02	22,04	361,42	704,10	88.441,53

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
252+0,000	0,00	0,00	24,08	461,26	704,10	88.902,80
253+0,000	0,00	0,00	24,33	484,06	704,10	89.386,86
254+0,000	0,01	0,08	22,38	466,74	704,18	89.853,60
255+0,000	0,00	0,08	21,45	438,09	704,26	90.291,69
256+0,000	0,00	0,00	19,36	408,33	704,26	90.700,02
257+0,000	0,00	0,00	18,84	382,43	704,26	91.082,46
258+0,000	0,00	0,00	19,23	381,17	704,26	91.463,63
259+0,000	0,00	0,03	15,55	348,17	704,29	91.811,80
260+0,000	0,00	0,03	13,45	290,16	704,33	92.101,96
261+0,000	0,00	0,00	12,26	256,76	704,33	92.358,72
262+0,000	0,00	0,00	9,36	215,51	704,33	92.574,23
263+0,000	0,00	0,00	8,08	173,69	704,33	92.747,92
264+0,000	0,03	0,34	6,44	145,26	704,66	92.893,18
265+0,000	0,00	0,34	6,65	130,89	705,00	93.024,08
266+0,000	0,00	0,00	7,46	141,07	705,00	93.165,15
267+0,000	0,00	0,00	8,58	160,40	705,00	93.325,54
268+0,000	0,00	0,00	8,38	169,63	705,00	93.495,17
269+0,000	0,03	0,29	1,94	103,19	705,28	93.598,36
270+0,000	0,00	0,29	4,76	66,98	705,57	93.665,34
271+0,000	0,00	0,00	9,12	138,83	705,57	93.804,17
272+0,000	0,00	0,00	11,27	203,86	705,57	94.008,03
273+0,000	0,00	0,00	11,92	231,90	705,57	94.239,94
274+0,000	0,00	0,00	13,26	251,80	705,57	94.491,74
275+0,000	0,00	0,00	13,23	264,89	705,57	94.756,63
276+0,000	0,00	0,00	13,75	269,80	705,57	95.026,43
277+0,000	0,00	0,00	13,96	277,06	705,57	95.303,49
278+0,000	0,00	0,00	13,64	275,96	705,57	95.579,45
279+0,000	0,00	0,00	12,74	263,81	705,57	95.843,26
280+0,000	0,00	0,00	12,25	249,98	705,57	96.093,24
281+0,000	0,00	0,00	11,37	236,29	705,57	96.329,53
282+0,000	0,00	0,00	9,05	204,28	705,57	96.533,82
283+0,000	0,00	0,00	6,97	160,24	705,57	96.694,05
284+0,000	0,00	0,00	8,75	157,20	705,57	96.851,25
285+0,000	0,00	0,00	6,53	152,77	705,57	97.004,02
286+0,000	0,00	0,00	6,08	126,08	705,57	97.130,09
287+0,000	0,00	0,00	6,62	127,01	705,57	97.257,11
288+0,000	0,00	0,00	6,55	131,73	705,57	97.388,84
289+0,000	0,00	0,00	5,48	120,29	705,57	97.509,13
290+0,000	0,00	0,00	5,26	107,36	705,57	97.616,49
291+0,000	0,00	0,00	4,16	94,21	705,57	97.710,70
292+0,000	0,00	0,00	5,57	97,35	705,57	97.808,05
293+0,000	0,00	0,00	7,10	126,74	705,57	97.934,79
294+0,000	0,00	0,00	8,94	160,43	705,57	98.095,22
295+0,000	0,00	0,00	9,87	188,11	705,57	98.283,32
296+0,000	0,00	0,00	10,44	203,12	705,57	98.486,44
297+0,000	0,00	0,00	11,43	218,78	705,57	98.705,23
298+0,000	0,00	0,00	12,13	235,66	705,57	98.940,88
299+0,000	0,00	0,00	12,32	244,51	705,57	99.185,40
300+0,000	0,00	0,00	12,90	252,20	705,57	99.437,59
301+0,000	0,00	0,00	14,42	273,25	705,57	99.710,84

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
302+0,000	0,00	0,00	15,23	296,49	705,57	100.007,33
303+0,000	0,00	0,00	15,78	310,02	705,57	100.317,35
304+0,000	0,00	0,00	15,56	313,40	705,57	100.630,75
305+0,000	0,00	0,00	16,22	317,79	705,57	100.948,54
306+0,000	0,00	0,00	16,31	325,29	705,57	101.273,83
307+0,000	0,00	0,00	11,47	277,79	705,57	101.551,62
308+0,000	0,00	0,00	15,29	267,57	705,57	101.819,19
309+0,000	0,00	0,00	15,22	305,13	705,57	102.124,32
310+0,000	0,00	0,00	13,83	290,48	705,57	102.414,80
311+0,000	0,00	0,00	13,41	272,36	705,57	102.687,16
312+0,000	0,00	0,00	11,94	253,49	705,57	102.940,65
313+0,000	0,00	0,00	9,76	216,98	705,57	103.157,62
314+0,000	0,00	0,00	8,17	179,33	705,57	103.336,96
315+0,000	0,00	0,00	6,35	145,28	705,57	103.482,24
316+0,000	0,00	0,00	5,25	116,00	705,57	103.598,24
317+0,000	0,21	2,08	3,71	89,53	707,65	103.687,77
318+0,000	0,00	2,08	6,05	97,58	709,72	103.785,35
319+0,000	0,10	1,00	5,44	114,89	710,73	103.900,24
320+0,000	0,22	3,21	4,94	103,81	713,93	104.004,05
321+0,000	0,00	2,20	6,42	113,66	716,14	104.117,71
322+0,000	0,05	0,54	6,04	124,60	716,68	104.242,31
323+0,000	0,04	0,97	5,92	119,61	717,65	104.361,92
324+0,000	0,01	0,56	5,70	116,24	718,21	104.478,16
325+0,000	0,00	0,15	5,96	116,64	718,36	104.594,80
326+0,000	0,03	0,37	6,05	120,11	718,73	104.714,91
327+0,000	0,37	4,10	4,27	103,20	722,82	104.818,12
328+0,000	0,00	3,79	5,45	97,27	726,62	104.915,39
329+0,000	0,00	0,05	2,73	81,84	726,67	104.997,23
330+0,000	0,00	0,00	6,92	96,55	726,67	105.093,77
331+0,000	0,00	0,00	11,17	180,91	726,67	105.274,69
332+0,000	0,00	0,00	11,13	222,95	726,67	105.497,63
333+0,000	0,00	0,00	12,59	237,20	726,67	105.734,83
334+0,000	0,00	0,00	14,64	272,31	726,67	106.007,15
335+0,000	0,00	0,00	13,49	281,29	726,67	106.288,44
336+0,000	0,00	0,00	13,57	270,57	726,67	106.559,00
337+0,000	0,00	0,00	12,64	262,05	726,67	106.821,05
338+0,000	0,00	0,00	11,90	245,39	726,67	107.066,44
339+0,000	0,00	0,00	9,58	214,86	726,67	107.281,31
340+0,000	0,00	0,00	9,20	187,83	726,67	107.469,14
341+0,000	0,00	0,00	15,12	243,16	726,67	107.712,29
342+0,000	0,00	0,00	16,20	313,18	726,67	108.025,47
343+0,000	0,00	0,04	14,08	302,85	726,71	108.328,32
344+0,000	0,02	0,29	11,81	258,96	726,99	108.587,28
345+0,000	0,00	0,24	13,91	257,19	727,24	108.844,46
346+0,000	0,00	0,00	12,43	263,40	727,24	109.107,86
347+0,000	0,00	0,00	11,23	236,68	727,24	109.344,54
348+0,000	0,00	0,00	10,57	218,01	727,25	109.562,55
349+0,000	0,00	0,00	8,83	193,95	727,25	109.756,50
350+0,000	0,00	0,00	5,11	139,40	727,25	109.895,90
351+0,000	0,00	0,00	6,24	113,50	727,25	110.009,40

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
352+0,000	0,00	0,00	8,15	143,92	727,25	110.153,32
353+0,000	0,00	0,00	7,03	151,87	727,25	110.305,19
354+0,000	0,00	0,00	5,82	128,56	727,25	110.433,76
355+0,000	0,00	0,00	8,02	138,48	727,25	110.572,23
356+0,000	0,00	0,00	9,80	178,21	727,25	110.750,45
357+0,000	0,00	0,00	8,57	183,67	727,25	110.934,12
358+0,000	0,00	0,00	8,57	171,36	727,25	111.105,47
359+0,000	0,00	0,00	7,99	165,58	727,25	111.271,05
360+0,000	0,00	0,00	6,96	149,50	727,25	111.420,55
361+0,000	0,00	0,00	7,67	146,33	727,25	111.566,88
362+0,000	0,00	0,00	6,78	144,52	727,25	111.711,40
363+0,000	0,00	0,00	7,64	144,16	727,25	111.855,56
364+0,000	0,00	0,00	5,78	134,19	727,25	111.989,75
365+0,000	0,00	0,00	6,72	125,00	727,25	112.114,75
366+0,000	0,00	0,00	7,20	139,22	727,25	112.253,97
367+0,000	0,00	0,00	5,63	128,32	727,25	112.382,29
368+0,000	0,00	0,00	5,78	114,13	727,25	112.496,42
369+0,000	0,00	0,00	5,68	114,67	727,25	112.611,08
370+0,000	0,01	0,12	5,69	113,72	727,36	112.724,81
371+0,000	0,03	0,41	6,18	118,74	727,77	112.843,55
372+0,000	0,00	0,29	7,83	140,17	728,06	112.983,72
373+0,000	0,00	0,00	9,08	169,14	728,06	113.152,86
374+0,000	0,00	0,00	9,13	182,15	728,06	113.335,01
375+0,000	0,00	0,00	9,65	187,88	728,06	113.522,89
376+0,000	0,00	0,00	10,63	202,85	728,06	113.725,74
377+0,000	0,00	0,00	13,63	242,62	728,06	113.968,36
378+0,000	0,00	0,00	14,64	282,69	728,06	114.251,05
379+0,000	0,00	0,00	16,61	312,52	728,06	114.563,57
380+0,000	0,00	0,00	20,19	368,00	728,06	114.931,57
381+0,000	0,00	0,00	19,25	394,41	728,06	115.325,97
382+0,000	0,00	0,00	18,25	375,07	728,06	115.701,04
383+0,000	0,00	0,00	17,51	357,66	728,06	116.058,70
384+0,000	0,00	0,00	16,94	344,57	728,06	116.403,27
385+0,000	0,00	0,00	17,94	348,82	728,06	116.752,09
386+0,000	0,00	0,00	16,73	346,65	728,06	117.098,74
387+0,000	0,00	0,00	18,11	348,40	728,06	117.447,14
388+0,000	0,00	0,03	19,73	378,56	728,09	117.825,70
389+0,000	0,00	0,03	22,01	417,86	728,12	118.243,56
390+0,000	0,00	0,04	25,57	476,62	728,16	118.720,18
391+0,000	0,00	0,03	28,83	545,05	728,20	119.265,23
392+0,000	0,00	0,00	31,86	608,08	728,20	119.873,31
393+0,000	0,00	0,01	33,93	659,09	728,21	120.532,40
394+0,000	0,01	0,16	35,59	696,26	728,36	121.228,66
395+0,000	0,00	0,15	40,51	762,14	728,51	121.990,80
396+0,000	0,00	0,00	43,61	842,39	728,51	122.833,20
397+0,000	0,00	0,02	45,66	893,69	728,53	123.726,89
398+0,000	0,00	0,02	47,79	935,52	728,54	124.662,41
399+0,000	0,04	0,46	42,93	907,91	729,00	125.570,32
400+0,000	0,00	0,46	44,40	874,04	729,45	126.444,36
401+0,000	0,04	0,36	43,62	881,50	729,81	127.325,86

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
402+0,000	0,00	0,36	40,84	846,04	730,17	128.171,90
403+0,000	0,00	0,00	30,94	718,87	730,17	128.890,77
404+0,000	0,00	0,00	17,53	484,73	730,17	129.375,50
405+0,000	0,00	0,00	7,30	248,30	730,17	129.623,80
406+0,000	0,22	2,18	1,27	85,73	732,35	129.709,53
407+0,000	0,01	2,23	3,48	47,52	734,58	129.757,05
408+0,000	0,00	0,05	7,06	105,37	734,64	129.862,42
409+0,000	0,00	0,00	10,04	170,94	734,64	130.033,35
410+0,000	0,00	0,00	11,24	212,80	734,64	130.246,15
411+0,000	0,00	0,00	12,42	236,62	734,64	130.482,77
412+0,000	0,00	0,00	12,91	253,28	734,64	130.736,05
413+0,000	0,00	0,00	12,30	252,04	734,64	130.988,09
414+0,000	0,00	0,00	10,99	232,84	734,64	131.220,94
415+0,000	0,00	0,00	9,52	205,10	734,64	131.426,04
416+0,000	0,00	0,00	6,84	163,64	734,64	131.589,68
417+0,000	0,00	0,00	5,15	119,97	734,64	131.709,65
418+0,000	0,04	0,42	3,10	82,57	735,05	131.792,22
419+0,000	0,26	2,99	1,51	46,15	738,04	131.838,36
420+0,000	1,05	13,11	0,35	18,67	751,15	131.857,03
421+0,000	2,43	34,85	0,00	3,55	786,00	131.860,58
422+0,000	5,22	76,50	0,00	0,00	862,51	131.860,58
423+0,000	11,39	166,10	0,00	0,00	1.028,61	131.860,58
424+0,000	17,75	291,43	0,00	0,00	1.320,04	131.860,58
425+0,000	21,38	391,28	0,00	0,00	1.711,32	131.860,58
426+0,000	28,14	495,19	0,00	0,00	2.206,50	131.860,58
427+0,000	32,05	601,95	0,00	0,00	2.808,45	131.860,58
428+0,000	36,84	688,90	0,00	0,00	3.497,35	131.860,58
429+0,000	29,75	665,87	0,00	0,00	4.163,22	131.860,58
430+0,000	21,48	512,27	0,00	0,00	4.675,49	131.860,58
431+0,000	14,68	361,53	0,00	0,00	5.037,02	131.860,58
432+0,000	12,81	274,90	0,00	0,00	5.311,92	131.860,58
433+0,000	11,34	241,52	0,00	0,00	5.553,44	131.860,58
434+0,000	11,81	231,52	0,00	0,00	5.784,95	131.860,58
435+0,000	8,50	203,12	0,00	0,00	5.988,07	131.860,58
436+0,000	2,70	111,96	1,49	14,93	6.100,04	131.875,51
437+0,000	0,00	26,98	6,98	84,78	6.127,02	131.960,29
438+0,000	0,00	0,04	10,69	176,71	6.127,06	132.136,99
439+0,000	0,00	0,07	13,26	239,51	6.127,13	132.376,51
440+0,000	0,00	0,03	13,83	270,97	6.127,15	132.647,48
441+0,000	0,00	0,00	9,11	229,38	6.127,15	132.876,85
442+0,000	0,35	3,54	6,73	158,35	6.130,70	133.035,20
443+0,000	0,00	3,54	12,49	192,15	6.134,24	133.227,35
444+0,000	0,00	0,00	14,74	272,27	6.134,24	133.499,61
445+0,000	0,00	0,00	14,12	288,64	6.134,24	133.788,25
446+0,000	0,00	0,00	14,62	287,38	6.134,24	134.075,64
447+0,000	0,00	0,00	15,91	305,28	6.134,24	134.380,92
448+0,000	0,00	0,00	16,21	321,22	6.134,24	134.702,14
449+0,000	0,00	0,00	16,44	326,45	6.134,24	135.028,59
450+0,000	0,00	0,00	14,37	308,02	6.134,24	135.336,61
451+0,000	0,00	0,00	9,00	233,62	6.134,24	135.570,23

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
452+0,000	0,00	0,00	8,06	170,59	6.134,24	135.740,82
453+0,000	0,00	0,00	12,82	208,81	6.134,24	135.949,64
454+0,000	0,00	0,00	12,85	256,66	6.134,24	136.206,29
455+0,000	0,00	0,00	12,84	256,91	6.134,24	136.463,20
456+0,000	0,00	0,00	12,06	249,04	6.134,24	136.712,25
457+0,000	0,00	0,00	11,10	231,58	6.134,24	136.943,82
458+0,000	0,00	0,00	12,33	234,26	6.134,24	137.178,08
459+0,000	0,00	0,00	11,62	239,45	6.134,24	137.417,53
460+0,000	0,00	0,00	11,75	233,64	6.134,24	137.651,17
461+0,000	0,00	0,00	13,42	251,67	6.134,24	137.902,84
462+0,000	0,00	0,00	12,73	261,48	6.134,24	138.164,33
463+0,000	0,00	0,00	10,49	232,21	6.134,24	138.396,54
464+0,000	0,00	0,00	11,62	221,11	6.134,24	138.617,64
465+0,000	0,00	0,00	10,22	218,39	6.134,24	138.836,03
466+0,000	0,00	0,00	8,38	186,04	6.134,24	139.022,07
467+0,000	0,00	0,00	5,28	136,58	6.134,24	139.158,65
468+0,000	0,00	0,00	8,45	137,29	6.134,24	139.295,94
469+0,000	0,00	0,00	8,03	164,81	6.134,24	139.460,75
470+0,000	0,00	0,00	8,64	166,72	6.134,24	139.627,46
471+0,000	0,00	0,00	8,12	167,66	6.134,24	139.795,12
472+0,000	0,00	0,00	9,56	176,87	6.134,24	139.971,99
473+0,000	0,00	0,00	11,21	207,71	6.134,24	140.179,70
474+0,000	0,00	0,00	14,27	254,79	6.134,24	140.434,49
475+0,000	0,00	0,00	18,67	329,41	6.134,24	140.763,90
476+0,000	0,00	0,00	22,95	416,17	6.134,24	141.180,07
477+0,000	0,00	0,00	26,67	496,19	6.134,24	141.676,27
478+0,000	0,00	0,00	32,13	588,00	6.134,24	142.264,26
479+0,000	0,00	0,00	36,23	683,54	6.134,24	142.947,81
480+0,000	0,00	0,00	39,07	752,97	6.134,24	143.700,78
481+0,000	0,00	0,00	40,62	796,92	6.134,24	144.497,70
482+0,000	0,00	0,00	39,05	796,68	6.134,24	145.294,38
483+0,000	0,00	0,00	36,63	756,81	6.134,24	146.051,18
484+0,000	0,00	0,00	33,50	701,34	6.134,24	146.752,52
485+0,000	0,00	0,00	28,39	618,10	6.134,24	147.370,62
486+0,000	0,00	0,00	21,67	499,75	6.134,24	147.870,37
487+0,000	0,00	0,00	15,15	367,41	6.134,24	148.237,78
488+0,000	0,02	0,16	6,94	220,57	6.134,40	148.458,35
489+0,000	0,00	0,16	5,78	127,32	6.134,56	148.585,67
490+0,000	0,00	0,00	4,62	104,38	6.134,56	148.690,06
491+0,000	0,31	3,04	0,21	48,69	6.137,59	148.738,74
492+0,000	0,00	3,04	1,13	13,42	6.140,63	148.752,17
493+0,000	0,00	0,00	3,89	50,25	6.140,64	148.802,42
494+0,000	0,00	0,01	5,57	94,74	6.140,65	148.897,15
495+0,000	0,00	0,02	9,06	146,61	6.140,67	149.043,76
496+0,000	0,00	0,01	13,88	229,92	6.140,69	149.273,68
497+0,000	0,00	0,00	17,30	312,37	6.140,69	149.586,05
498+0,000	0,00	0,00	19,53	368,96	6.140,69	149.955,02
499+0,000	0,00	0,00	20,75	403,42	6.140,69	150.358,43
500+0,000	0,00	0,00	21,61	424,10	6.140,69	150.782,54
501+0,000	0,00	0,00	23,73	453,98	6.140,69	151.236,52

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
502+0,000	0,00	0,00	26,61	503,96	6.140,69	151.740,48
503+0,000	0,00	0,00	31,17	578,50	6.140,69	152.318,98
504+0,000	0,00	0,00	32,02	632,77	6.140,69	152.951,74
505+0,000	0,01	0,08	31,21	632,99	6.140,77	153.584,73
506+0,000	0,00	0,08	27,08	583,42	6.140,86	154.168,16
507+0,000	0,00	0,00	25,70	527,96	6.140,86	154.696,11
508+0,000	0,00	0,00	20,90	465,82	6.140,86	155.161,93
509+0,000	0,00	0,00	17,41	382,92	6.140,86	155.544,84
510+0,000	0,00	0,00	14,34	317,47	6.140,86	155.862,32
511+0,000	0,00	0,00	13,22	275,53	6.140,86	156.137,85
512+0,000	0,00	0,00	9,68	228,97	6.140,86	156.366,83
513+0,000	0,00	0,00	6,75	164,29	6.140,86	156.531,11
514+0,000	0,18	1,81	4,11	108,58	6.142,66	156.639,69
515+0,000	0,74	9,21	3,51	76,16	6.151,87	156.715,85
516+0,000	0,77	15,07	3,10	66,05	6.166,94	156.781,90
517+0,000	0,70	14,69	3,25	63,48	6.181,63	156.845,38
518+0,000	1,04	17,38	2,89	61,43	6.199,01	156.906,81
519+0,000	1,69	27,22	3,44	63,36	6.226,23	156.970,17
520+0,000	1,11	27,96	2,53	59,73	6.254,18	157.029,89
521+0,000	0,77	18,84	3,32	58,48	6.273,02	157.088,37
522+0,000	0,56	13,36	3,36	66,77	6.286,38	157.155,14
523+0,000	0,10	6,61	4,17	75,28	6.292,99	157.230,42
524+0,000	0,00	1,00	8,08	122,54	6.293,98	157.352,96
525+0,000	0,00	0,00	11,60	196,84	6.293,98	157.549,80
526+0,000	0,00	0,00	12,51	241,08	6.293,98	157.790,88
527+0,000	0,00	0,00	12,38	248,86	6.293,98	158.039,73
528+0,000	0,00	0,00	12,99	253,62	6.293,98	158.293,35
529+0,000	0,00	0,00	13,01	259,99	6.293,98	158.553,34
530+0,000	0,00	0,00	16,79	298,06	6.293,98	158.851,41
531+0,000	0,00	0,00	22,02	388,18	6.293,98	159.239,58
532+0,000	0,00	0,00	25,06	470,83	6.293,98	159.710,41
533+0,000	0,00	0,00	27,83	528,89	6.293,98	160.239,30
534+0,000	0,00	0,00	28,10	559,31	6.293,98	160.798,61
535+0,000	0,00	0,00	26,84	549,43	6.293,98	161.348,04
536+0,000	0,00	0,00	25,88	527,21	6.293,98	161.875,25
537+0,000	0,00	0,00	24,23	501,12	6.293,98	162.376,37
538+0,000	0,00	0,00	19,60	438,36	6.293,98	162.814,74
539+0,000	0,00	0,00	16,24	358,44	6.293,98	163.173,18
540+0,000	0,00	0,00	11,64	278,80	6.293,98	163.451,97
541+0,000	0,00	0,00	4,98	166,17	6.293,98	163.618,15
542+0,000	0,11	1,10	2,42	74,00	6.295,08	163.692,15
543+0,000	1,52	16,30	1,56	39,83	6.311,38	163.731,98
544+0,000	4,30	58,16	2,04	36,01	6.369,54	163.767,99
545+0,000	6,01	103,09	0,00	20,40	6.472,64	163.788,39
546+0,000	4,37	103,78	0,93	9,29	6.576,42	163.797,68
547+0,000	5,00	93,61	1,01	19,34	6.670,03	163.817,02
548+0,000	6,77	117,70	0,00	10,05	6.787,72	163.827,07
549+0,000	3,70	104,77	0,14	1,38	6.892,50	163.828,45
550+0,000	2,04	57,47	3,72	38,57	6.949,97	163.867,02
551+0,000	0,81	28,49	6,06	97,74	6.978,46	163.964,76

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
552+0,000	0,49	12,91	6,78	128,34	6.991,37	164.093,10
553+0,000	0,00	4,86	8,37	151,46	6.996,22	164.244,56
554+0,000	0,00	0,00	11,24	196,11	6.996,22	164.440,67
555+0,000	0,00	0,00	8,49	197,31	6.996,22	164.637,98
556+0,000	0,00	0,00	4,22	127,04	6.996,22	164.765,02
557+0,000	0,00	0,00	10,74	149,59	6.996,22	164.914,61
558+0,000	0,00	0,00	14,38	251,24	6.996,22	165.165,85
559+0,000	0,00	0,00	18,01	323,89	6.996,22	165.489,74
560+0,000	0,00	0,00	16,43	344,39	6.996,22	165.834,12
561+0,000	0,00	0,00	14,86	312,92	6.996,22	166.147,04
562+0,000	0,00	0,00	13,62	284,77	6.996,22	166.431,81
563+0,000	0,00	0,00	12,31	259,31	6.996,22	166.691,12
564+0,000	0,00	0,00	11,58	238,98	6.996,22	166.930,10
565+0,000	0,00	0,00	9,62	212,06	6.996,22	167.142,16
566+0,000	0,00	0,00	7,25	168,70	6.996,22	167.310,85
567+0,000	0,17	1,67	4,83	120,82	6.997,89	167.431,67
568+0,000	0,77	9,35	3,60	84,31	7.007,24	167.515,98
569+0,000	0,00	7,68	1,95	55,43	7.014,92	167.571,41
570+0,000	0,00	0,00	2,65	45,92	7.014,92	167.617,33
571+0,000	0,00	0,00	6,29	89,32	7.014,92	167.706,65
572+0,000	0,00	0,00	5,29	115,80	7.014,92	167.822,44
573+0,000	0,00	0,00	6,82	121,11	7.014,92	167.943,55
574+0,000	0,00	0,00	6,72	135,40	7.014,92	168.078,96
575+0,000	0,00	0,00	6,90	136,25	7.014,92	168.215,21
576+0,000	0,00	0,00	8,68	155,77	7.014,92	168.370,97
577+0,000	0,00	0,00	8,65	173,23	7.014,92	168.544,20
578+0,000	0,00	0,00	6,39	150,42	7.014,92	168.694,62
579+0,000	0,00	0,00	4,20	105,92	7.014,92	168.800,53
580+0,000	0,00	0,00	4,35	85,51	7.014,92	168.886,04
581+0,000	0,00	0,00	6,02	103,72	7.014,92	168.989,76
582+0,000	0,00	0,00	5,58	115,98	7.014,92	169.105,74
583+0,000	0,00	0,00	5,53	111,12	7.014,92	169.216,85
584+0,000	0,00	0,00	6,26	117,94	7.014,92	169.334,80
585+0,000	0,05	0,47	6,44	127,00	7.015,39	169.461,80
586+0,000	0,26	3,06	5,63	121,27	7.018,45	169.583,07
587+0,000	0,32	5,73	4,51	101,89	7.024,18	169.684,96
588+0,000	0,51	8,22	2,93	74,82	7.032,40	169.759,78
589+0,000	0,89	13,91	0,97	39,30	7.046,31	169.799,08
590+0,000	1,78	26,58	0,67	16,57	7.072,89	169.815,65
591+0,000	2,65	44,17	0,05	7,25	7.117,06	169.822,91
592+0,000	3,06	56,90	0,05	0,94	7.173,96	169.823,85
593+0,000	6,02	90,57	0,00	0,46	7.264,53	169.824,31
594+0,000	8,15	141,51	0,00	0,00	7.406,05	169.824,31
595+0,000	9,35	174,82	0,00	0,00	7.580,86	169.824,31
596+0,000	8,31	176,29	0,00	0,00	7.757,15	169.824,31
597+0,000	9,59	178,73	0,00	0,00	7.935,88	169.824,31
598+0,000	8,27	178,40	0,00	0,00	8.114,28	169.824,31
599+0,000	6,79	150,58	0,00	0,00	8.264,86	169.824,31
600+0,000	5,39	121,75	0,00	0,00	8.386,62	169.824,31
601+0,000	4,03	94,22	0,01	0,10	8.480,83	169.824,41

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
602+0,000	3,93	79,63	0,01	0,23	8.560,46	169.824,64
603+0,000	2,38	63,08	0,12	1,28	8.623,54	169.825,92
604+0,000	2,61	49,87	0,01	1,26	8.673,41	169.827,18
605+0,000	2,71	53,13	0,11	1,19	8.726,54	169.828,37
606+0,000	2,39	50,99	0,06	1,69	8.777,53	169.830,06
607+0,000	1,96	43,50	0,49	5,49	8.821,03	169.835,55
608+0,000	1,30	32,54	0,63	11,17	8.853,57	169.846,72
609+0,000	1,74	30,36	0,52	11,43	8.883,93	169.858,15
610+0,000	3,12	48,57	0,00	5,16	8.932,51	169.863,31
611+0,000	1,12	42,43	0,30	3,01	8.974,94	169.866,32
612+0,000	0,31	14,35	2,67	29,72	8.989,29	169.896,05
613+0,000	0,04	3,51	2,76	54,36	8.992,80	169.950,40
614+0,000	0,12	1,60	3,03	57,99	8.994,40	170.008,39
615+0,000	0,00	1,21	6,30	93,39	8.995,61	170.101,78
616+0,000	0,00	0,00	9,15	154,57	8.995,61	170.256,35
617+0,000	0,00	0,00	9,08	182,29	8.995,61	170.438,64
618+0,000	0,00	0,00	11,05	201,23	8.995,61	170.639,87
619+0,000	0,00	0,00	10,99	220,33	8.995,61	170.860,19
620+0,000	0,00	0,00	13,01	239,92	8.995,61	171.100,12
621+0,000	0,00	0,00	13,63	266,34	8.995,61	171.366,46
622+0,000	0,00	0,00	16,35	299,76	8.995,61	171.666,22
623+0,000	0,00	0,00	17,78	341,29	8.995,61	172.007,51
624+0,000	0,00	0,00	17,66	354,42	8.995,61	172.361,93
625+0,000	0,00	0,00	13,47	311,35	8.995,61	172.673,27
626+0,000	0,00	0,00	15,38	288,56	8.995,61	172.961,83
627+0,000	0,00	0,00	22,25	376,31	8.995,61	173.338,14
628+0,000	0,00	0,00	21,97	442,20	8.995,61	173.780,35
629+0,000	0,00	0,00	21,80	437,68	8.995,61	174.218,03
630+0,000	0,00	0,00	24,24	460,30	8.995,61	174.678,33
631+0,000	0,00	0,00	25,91	501,43	8.995,61	175.179,76
632+0,000	0,00	0,00	22,14	480,50	8.995,61	175.660,26
633+0,000	0,00	0,00	23,31	454,51	8.995,61	176.114,77
634+0,000	0,00	0,00	23,88	471,90	8.995,61	176.586,68
635+0,000	0,00	0,00	25,34	492,24	8.995,61	177.078,91
636+0,000	0,00	0,00	26,04	513,79	8.995,61	177.592,70
637+0,000	0,00	0,00	27,96	540,00	8.995,61	178.132,70
638+0,000	0,00	0,00	32,32	602,83	8.995,61	178.735,53
639+0,000	0,00	0,00	33,36	656,76	8.995,61	179.392,30
640+0,000	0,00	0,00	37,03	703,87	8.995,61	180.096,17
641+0,000	0,00	0,00	41,38	784,09	8.995,61	180.880,26
642+0,000	0,00	0,00	38,67	800,47	8.995,61	181.680,73
643+0,000	0,00	0,00	37,76	764,30	8.995,61	182.445,03
644+0,000	0,00	0,00	36,90	746,62	8.995,61	183.191,65
645+0,000	0,00	0,00	34,07	709,73	8.995,61	183.901,38
646+0,000	0,00	0,00	30,33	644,02	8.995,61	184.545,39
647+0,000	0,00	0,00	20,73	510,59	8.995,61	185.055,99
648+0,000	0,00	0,00	18,96	396,86	8.995,61	185.452,85
649+0,000	0,00	0,00	11,43	303,84	8.995,61	185.756,68
650+0,000	0,92	9,17	1,94	133,63	9.004,77	185.890,31
651+0,000	3,02	39,32	2,26	41,92	9.044,09	185.932,22

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
652+0,000	2,15	51,68	3,53	57,90	9.095,78	185.990,12
653+0,000	2,88	50,35	1,46	49,96	9.146,12	186.040,09
654+0,000	3,30	61,79	0,87	23,29	9.207,91	186.063,37
655+0,000	1,95	52,48	2,04	29,10	9.260,39	186.092,47
656+0,000	3,65	56,00	1,09	31,31	9.316,39	186.123,78
657+0,000	3,86	75,12	2,71	37,96	9.391,50	186.161,74
658+0,000	1,17	50,31	4,73	74,34	9.441,81	186.236,08
659+0,000	1,04	22,05	4,68	94,04	9.463,86	186.330,12
660+0,000	0,22	12,58	7,76	124,37	9.476,44	186.454,49
661+0,000	0,44	6,58	7,55	153,05	9.483,02	186.607,54
662+0,000	0,00	4,37	9,82	173,72	9.487,39	186.781,26
663+0,000	0,00	0,00	9,69	195,10	9.487,39	186.976,37
664+0,000	0,87	8,73	6,70	163,86	9.496,12	187.140,23
665+0,000	0,00	8,73	12,11	188,10	9.504,85	187.328,32
666+0,000	0,00	0,00	8,69	208,01	9.504,85	187.536,34
667+0,000	0,00	0,00	6,88	155,73	9.504,85	187.692,07
668+0,000	0,00	0,00	10,85	177,28	9.504,85	187.869,35
669+0,000	0,00	0,00	14,30	251,44	9.504,85	188.120,80
670+0,000	0,00	0,00	11,32	256,22	9.504,85	188.377,01
671+0,000	0,00	0,00	10,04	213,68	9.504,85	188.590,69
672+0,000	0,00	0,00	10,12	201,63	9.504,85	188.792,33
673+0,000	0,00	0,00	9,42	195,35	9.504,85	188.987,68
674+0,000	0,00	0,00	6,82	162,36	9.504,85	189.150,04
675+0,000	1,97	19,72	0,80	76,24	9.524,58	189.226,28
676+0,000	0,79	27,66	1,20	20,06	9.552,24	189.246,34
677+0,000	0,86	16,57	3,02	42,22	9.568,81	189.288,56
678+0,000	0,20	10,67	3,84	68,61	9.579,48	189.357,17
679+0,000	2,78	29,85	1,91	57,47	9.609,33	189.414,64
680+0,000	1,97	47,50	2,08	39,88	9.656,83	189.454,52
681+0,000	1,85	38,18	1,89	39,74	9.695,00	189.494,26
682+0,000	0,00	18,49	6,70	85,88	9.713,50	189.580,14
683+0,000	0,00	0,00	17,38	240,74	9.713,50	189.820,88
684+0,000	0,00	0,00	29,59	469,69	9.713,50	190.290,57
685+0,000	0,00	0,00	44,45	740,37	9.713,50	191.030,93
686+0,000	0,00	0,00	52,93	973,71	9.713,50	192.004,64
687+0,000	0,00	0,00	54,05	1.069,77	9.713,50	193.074,42
688+0,000	0,00	0,00	42,38	964,37	9.713,50	194.038,78
689+0,000	0,00	0,00	35,41	777,90	9.713,50	194.816,69
690+0,000	0,00	0,00	30,14	655,50	9.713,50	195.472,18
691+0,000	0,00	0,00	13,04	431,88	9.713,50	195.904,06
692+0,000	0,00	0,00	9,10	221,42	9.713,50	196.125,48
693+0,000	0,00	0,00	5,29	143,89	9.713,50	196.269,37
694+0,000	0,00	0,00	7,52	128,06	9.713,50	196.397,43
695+0,000	3,26	32,41	5,26	128,03	9.745,90	196.525,46
696+0,000	0,71	39,39	4,44	97,78	9.785,30	196.623,24
697+0,000	0,28	9,81	6,87	114,42	9.795,10	196.737,66
698+0,000	0,00	2,73	6,24	132,32	9.797,83	196.869,98
699+0,000	0,00	0,00	12,93	192,51	9.797,83	197.062,49
700+0,000	0,00	0,00	15,58	285,85	9.797,83	197.348,34
701+0,000	0,00	0,00	21,64	373,16	9.797,83	197.721,50

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
702+0,000	0,00	0,00	26,15	479,04	9.797,83	198.200,54
703+0,000	0,00	0,00	33,05	593,40	9.797,83	198.793,94
704+0,000	0,00	0,00	36,25	694,55	9.797,83	199.488,49
705+0,000	0,00	0,00	39,35	757,68	9.797,83	200.246,17
706+0,000	0,00	0,00	42,87	823,66	9.797,83	201.069,83
707+0,000	0,00	0,00	39,37	823,08	9.797,83	201.892,92
708+0,000	0,00	0,00	34,88	742,82	9.797,83	202.635,74
709+0,000	0,00	0,00	35,47	703,42	9.797,83	203.339,16
710+0,000	0,00	0,00	33,74	692,07	9.797,83	204.031,23
711+0,000	0,00	0,00	40,96	747,00	9.797,83	204.778,23
712+0,000	0,00	0,00	35,51	764,74	9.797,83	205.542,97
713+0,000	0,03	0,28	27,93	634,49	9.798,11	206.177,47
714+0,000	0,00	0,28	26,63	545,66	9.798,39	206.723,12
715+0,000	0,01	0,08	13,88	405,10	9.798,46	207.128,22
716+0,000	0,00	0,08	7,55	214,33	9.798,54	207.342,55
717+0,000	0,56	5,62	2,72	102,76	9.804,16	207.445,31
718+0,000	1,10	16,61	0,09	28,15	9.820,76	207.473,46
719+0,000	11,72	128,18	0,00	0,93	9.948,94	207.474,39
720+0,000	23,07	347,92	0,00	0,00	10.296,86	207.474,39
721+0,000	40,84	638,67	0,00	0,00	10.935,52	207.474,39
722+0,000	69,82	1.103,58	0,00	0,00	12.039,10	207.474,39
723+0,000	108,16	1.768,78	0,00	0,00	13.807,88	207.474,39
724+0,000	137,06	2.430,87	0,00	0,00	16.238,76	207.474,39
725+0,000	162,68	2.968,18	0,00	0,00	19.206,93	207.474,39
726+0,000	177,40	3.365,94	0,00	0,00	22.572,87	207.474,39
727+0,000	187,47	3.606,22	0,00	0,00	26.179,09	207.474,39
728+0,000	189,89	3.724,82	0,00	0,00	29.903,91	207.474,39
729+0,000	180,22	3.652,07	0,00	0,00	33.555,98	207.474,39
730+0,000	194,25	3.691,37	0,00	0,00	37.247,35	207.474,39
731+0,000	204,54	3.935,82	0,00	0,00	41.183,17	207.474,39
732+0,000	92,32	2.968,62	0,00	0,00	44.151,79	207.474,39
733+0,000	46,50	1.388,26	0,00	0,00	45.540,04	207.474,39
734+0,000	12,86	593,65	0,00	0,00	46.133,69	207.474,39
735+0,000	4,92	177,80	0,61	6,06	46.311,49	207.480,45
736+0,000	0,00	49,16	40,14	407,45	46.360,65	207.887,90
737+0,000	0,00	0,00	52,60	926,03	46.360,65	208.813,93
738+0,000	0,00	0,00	73,25	1.254,04	46.360,65	210.067,97
739+0,000	0,00	0,05	99,55	1.719,58	46.360,69	211.787,55
740+0,000	0,00	0,05	159,02	2.557,02	46.360,74	214.344,57
741+0,000	0,00	0,00	209,89	3.662,02	46.360,74	218.006,59
742+0,000	0,00	0,00	197,39	4.072,85	46.360,74	222.079,44
743+0,000	0,00	0,00	185,99	3.833,84	46.360,74	225.913,28
744+0,000	0,00	0,00	168,98	3.549,71	46.360,74	229.462,99
745+0,000	0,00	0,00	169,80	3.388,60	46.360,74	232.851,59
746+0,000	0,00	0,00	172,70	3.419,13	46.360,74	236.270,72
747+0,000	0,00	0,00	151,61	3.234,02	46.360,75	239.504,74
748+0,000	0,00	0,01	136,57	2.875,17	46.360,76	242.379,91
749+0,000	0,00	0,01	119,91	2.559,17	46.360,77	244.939,08
750+0,000	0,01	0,09	97,77	2.171,74	46.360,86	247.110,82
751+0,000	0,00	0,11	73,10	1.704,66	46.360,97	248.815,48

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
752+0,000	0,05	0,51	42,89	1.158,85	46.361,48	249.974,33
753+0,000	0,00	0,49	33,69	766,92	46.361,97	250.741,25
754+0,000	0,00	0,00	24,25	580,06	46.361,97	251.321,31
755+0,000	0,00	0,00	15,02	392,85	46.361,97	251.714,16
756+0,000	0,00	0,00	10,88	259,17	46.361,97	251.973,33
757+0,000	0,27	2,65	3,22	141,19	46.364,62	252.114,52
758+0,000	0,88	11,47	0,00	32,16	46.376,08	252.146,68
759+0,000	0,49	13,67	0,57	5,71	46.389,76	252.152,40
760+0,000	3,45	39,39	0,00	5,70	46.429,15	252.158,10
761+0,000	3,63	70,77	0,00	0,00	46.499,92	252.158,10
762+0,000	4,46	80,90	0,00	0,00	46.580,82	252.158,10
763+0,000	5,23	96,89	0,00	0,00	46.677,70	252.158,10
764+0,000	0,85	60,77	0,13	1,32	46.738,47	252.159,42
765+0,000	0,00	8,55	15,32	154,49	46.747,02	252.313,91
766+0,000	0,00	0,00	29,68	450,20	46.747,02	252.764,11
767+0,000	0,00	0,03	39,44	691,59	46.747,05	253.455,69
768+0,000	0,00	0,03	41,66	810,58	46.747,08	254.266,28
769+0,000	0,00	0,00	46,49	877,67	46.747,08	255.143,94
770+0,000	0,00	0,00	21,58	676,06	46.747,08	255.820,00
771+0,000	3,76	37,56	0,00	214,45	46.784,65	256.034,44
772+0,000	20,89	245,73	0,00	0,04	47.030,38	256.034,48
773+0,000	24,47	452,40	0,00	0,04	47.482,78	256.034,52
774+0,000	18,88	432,49	0,00	0,04	47.915,28	256.034,57
775+0,000	17,00	356,71	0,00	0,00	48.271,99	256.034,57
776+0,000	8,23	250,23	0,00	0,00	48.522,22	256.034,57
777+0,000	3,83	119,94	0,00	0,00	48.642,16	256.034,57
778+0,000	4,18	79,90	0,00	0,00	48.722,05	256.034,57
779+0,000	1,49	56,71	1,33	13,25	48.778,76	256.047,82
780+0,000	0,00	14,91	8,39	97,11	48.793,67	256.144,93
781+0,000	0,00	0,00	15,63	240,19	48.793,67	256.385,12
782+0,000	0,00	0,00	23,67	393,01	48.793,67	256.778,13
783+0,000	0,00	0,00	34,66	583,25	48.793,67	257.361,37
784+0,000	0,00	0,00	36,30	709,61	48.793,67	258.070,98
785+0,000	0,00	0,00	26,79	630,96	48.793,67	258.701,94
786+0,000	0,00	0,00	18,86	456,54	48.793,67	259.158,48
787+0,000	0,00	0,00	16,43	352,97	48.793,67	259.511,45
788+0,000	0,00	0,00	15,56	319,89	48.793,67	259.831,34
789+0,000	0,00	0,00	13,06	286,14	48.793,67	260.117,48
790+0,000	0,00	0,00	12,03	250,85	48.793,67	260.368,33
791+0,000	0,00	0,00	8,80	208,24	48.793,67	260.576,57
792+0,000	4,28	42,75	3,11	119,11	48.836,42	260.695,69
793+0,000	6,06	103,31	2,04	51,56	48.939,73	260.747,25
794+0,000	9,03	150,83	0,02	20,63	49.090,56	260.767,88
795+0,000	15,52	245,93	0,00	0,21	49.336,49	260.768,09
796+0,000	19,59	352,46	0,00	0,00	49.688,95	260.768,09
797+0,000	17,43	370,60	0,00	0,00	50.059,55	260.768,09
798+0,000	13,43	307,06	0,00	0,00	50.366,61	260.768,09
799+0,000	9,46	227,17	0,00	0,00	50.593,77	260.768,09
800+0,000	0,00	93,61	9,05	89,81	50.687,38	260.857,90
801+0,000	0,00	0,00	26,41	352,63	50.687,38	261.210,52

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
802+0,000	0,00	0,00	48,87	746,12	50.687,38	261.956,64
803+0,000	0,00	0,00	79,31	1.267,43	50.687,38	263.224,06
804+0,000	0,00	0,00	59,52	1.384,29	50.687,38	264.608,35
805+0,000	0,00	0,00	51,67	1.111,87	50.687,38	265.720,23
806+0,000	0,00	0,00	38,63	902,98	50.687,38	266.623,21
807+0,000	0,00	0,00	28,23	668,58	50.687,38	267.291,79
808+0,000	2,48	24,47	15,70	441,21	50.711,86	267.733,00
809+0,000	11,64	137,43	4,99	210,42	50.849,29	267.943,41
810+0,000	24,15	342,83	1,04	62,51	51.192,12	268.005,93
811+0,000	34,65	560,34	0,21	13,17	51.752,45	268.019,09
812+0,000	48,91	802,71	0,00	2,23	52.555,17	268.021,32
813+0,000	52,92	978,96	0,00	0,01	53.534,12	268.021,33
814+0,000	66,63	1.149,02	0,00	0,01	54.683,14	268.021,34
815+0,000	68,17	1.303,94	0,00	0,00	55.987,08	268.021,34
816+0,000	55,27	1.204,58	0,00	0,00	57.191,65	268.021,34
817+0,000	42,87	971,27	0,00	0,00	58.162,92	268.021,34
818+0,000	22,64	653,70	0,00	0,00	58.816,62	268.021,34
819+0,000	4,35	269,92	1,26	12,64	59.086,54	268.033,98
820+0,000	0,23	45,81	19,16	204,28	59.132,35	268.238,26
821+0,000	0,00	2,36	40,54	591,72	59.134,71	268.829,98
822+0,000	1,15	11,70	7,32	464,86	59.146,41	269.294,84
823+0,000	6,79	79,88	0,00	70,30	59.226,30	269.365,14
824+0,000	18,26	251,09	0,00	0,00	59.477,38	269.365,14
825+0,000	21,43	397,30	0,00	0,00	59.874,69	269.365,14
826+0,000	23,22	446,21	0,00	0,00	60.320,90	269.365,14
827+0,000	19,72	429,25	0,00	0,00	60.750,15	269.365,15
828+0,000	13,12	328,91	0,00	0,00	61.079,06	269.365,15
829+0,000	7,85	210,33	0,00	0,00	61.289,39	269.365,15
830+0,000	4,59	124,82	0,45	4,44	61.414,21	269.369,58
831+0,000	0,00	45,86	6,89	73,44	61.460,07	269.443,02
832+0,000	0,00	0,00	19,51	264,07	61.460,07	269.707,09
833+0,000	0,00	0,00	34,73	542,43	61.460,07	270.249,52
834+0,000	0,00	0,00	44,36	790,89	61.460,07	271.040,41
835+0,000	0,00	0,00	52,95	973,08	61.460,07	272.013,48
836+0,000	0,00	0,00	58,59	1.115,40	61.460,07	273.128,88
837+0,000	0,00	0,00	58,57	1.171,65	61.460,07	274.300,54
838+0,000	0,00	0,00	59,85	1.184,05	61.460,07	275.484,59
839+0,000	0,02	0,18	56,14	1.160,50	61.460,25	276.645,09
840+0,000	0,00	0,18	51,06	1.072,58	61.460,43	277.717,67
841+0,000	0,00	0,03	47,20	983,42	61.460,46	278.701,09
842+0,000	0,00	0,03	42,62	900,22	61.460,50	279.601,31
843+0,000	0,00	0,00	40,56	833,95	61.460,50	280.435,26
844+0,000	0,00	0,00	35,67	764,77	61.460,50	281.200,03
845+0,000	0,00	0,00	31,16	670,41	61.460,50	281.870,44
846+0,000	0,00	0,00	25,09	563,59	61.460,50	282.434,03
847+0,000	0,03	0,33	15,51	406,32	61.460,83	282.840,35
848+0,000	0,00	0,33	13,45	289,49	61.461,15	283.129,84
849+0,000	0,00	0,00	7,44	208,83	61.461,15	283.338,66
850+0,000	0,27	2,70	2,31	97,45	61.463,85	283.436,11
851+0,000	1,00	12,70	0,85	31,52	61.476,55	283.467,63

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
852+0,000	0,39	13,91	0,87	17,20	61.490,46	283.484,83
853+0,000	3,01	33,99	0,48	13,55	61.524,45	283.498,38
854+0,000	0,20	32,08	2,03	25,14	61.556,53	283.523,52
855+0,000	0,03	2,25	4,61	66,41	61.558,77	283.589,94
856+0,000	0,00	0,27	12,74	173,45	61.559,04	283.763,39
857+0,000	0,00	0,00	20,97	337,09	61.559,04	284.100,48
858+0,000	0,00	0,00	25,06	460,34	61.559,04	284.560,81
859+0,000	0,00	0,00	28,16	532,24	61.559,04	285.093,05
860+0,000	0,00	0,00	33,62	617,79	61.559,04	285.710,84
861+0,000	0,00	0,00	40,46	740,76	61.559,04	286.451,60
862+0,000	0,00	0,00	46,72	871,80	61.559,04	287.323,40
863+0,000	0,00	0,00	50,12	968,36	61.559,04	288.291,76
864+0,000	0,00	0,00	55,44	1.055,52	61.559,04	289.347,28
865+0,000	0,00	0,00	37,51	929,42	61.559,04	290.276,70
866+0,000	0,00	0,00	30,65	681,60	61.559,04	290.958,30
867+0,000	0,00	0,00	20,71	513,61	61.559,04	291.471,91
868+0,000	0,00	0,00	13,01	337,22	61.559,04	291.809,14
869+0,000	0,00	0,00	14,53	275,49	61.559,04	292.084,62
870+0,000	0,00	0,00	20,87	354,49	61.559,04	292.439,12
871+0,000	0,00	0,00	21,73	427,15	61.559,04	292.866,26
872+0,000	0,00	0,00	25,72	475,70	61.559,04	293.341,96
873+0,000	0,00	0,00	23,77	495,82	61.559,04	293.837,78
874+0,000	0,00	0,00	23,25	470,96	61.559,04	294.308,74
875+0,000	0,00	0,00	16,97	403,25	61.559,04	294.711,99
876+0,000	0,00	0,00	15,65	327,48	61.559,04	295.039,47
877+0,000	0,00	0,00	14,41	301,73	61.559,04	295.341,20
878+0,000	0,00	0,00	12,54	270,05	61.559,04	295.611,25
879+0,000	0,00	0,00	9,53	220,73	61.559,04	295.831,98
880+0,000	0,00	0,00	2,70	122,26	61.559,04	295.954,24
881+0,000	0,38	3,84	5,05	77,45	61.562,88	296.031,68
882+0,000	0,00	3,84	10,22	152,67	61.566,72	296.184,36
883+0,000	0,00	0,00	8,68	189,00	61.566,72	296.373,36
884+0,000	0,00	0,00	10,19	188,68	61.566,72	296.562,03
885+0,000	0,00	0,00	12,44	226,30	61.566,72	296.788,34
886+0,000	0,00	0,00	13,27	257,14	61.566,72	297.045,47
887+0,000	0,09	0,88	3,01	162,81	61.567,60	297.208,28
888+0,000	3,93	40,17	0,00	30,09	61.607,78	297.238,37
889+0,000	11,97	158,95	0,00	0,00	61.766,72	297.238,37
890+0,000	22,86	348,21	0,00	0,00	62.114,93	297.238,37
891+0,000	22,41	452,62	0,00	0,00	62.567,55	297.238,37
892+0,000	29,90	522,90	0,00	0,01	63.090,45	297.238,38
893+0,000	34,23	640,71	0,01	0,16	63.731,16	297.238,54
894+0,000	42,02	761,78	0,00	0,15	64.492,93	297.238,69
895+0,000	46,11	880,56	0,00	0,00	65.373,49	297.238,69
896+0,000	45,76	918,27	0,00	0,00	66.291,76	297.238,69
897+0,000	30,16	759,28	0,00	0,00	67.051,04	297.238,69
898+0,000	15,52	457,07	0,00	0,00	67.508,11	297.238,69
899+0,000	1,57	170,81	0,74	7,43	67.678,91	297.246,12
900+0,000	0,00	15,65	10,18	109,23	67.694,57	297.355,35
901+0,000	0,00	0,00	21,31	314,89	67.694,57	297.670,25

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
902+0,000	0,00	0,00	28,28	495,94	67.694,57	298.166,19
903+0,000	0,00	0,00	25,68	539,60	67.694,57	298.705,79
904+0,000	0,00	0,00	24,48	501,56	67.694,57	299.207,35
905+0,000	0,00	0,00	22,54	470,18	67.694,57	299.677,53
906+0,000	0,00	0,00	25,63	481,63	67.694,57	300.159,16
907+0,000	0,00	0,00	48,33	739,51	67.694,57	300.898,67
908+0,000	0,00	0,00	57,12	1.054,49	67.694,57	301.953,15
909+0,000	0,00	0,00	34,29	914,15	67.694,57	302.867,30
910+0,000	0,00	0,00	3,38	376,69	67.694,57	303.243,99
911+0,000	20,42	204,22	0,00	33,78	67.898,79	303.277,77
912+0,000	42,12	625,43	0,00	0,00	68.524,22	303.277,77
913+0,000	58,71	1.008,29	0,00	0,00	69.532,51	303.277,77
914+0,000	68,93	1.279,01	0,00	0,00	70.811,52	303.277,77
915+0,000	65,18	1.346,71	0,00	0,00	72.158,23	303.277,77
916+0,000	65,33	1.310,56	0,00	0,00	73.468,79	303.277,77
917+0,000	79,23	1.447,29	0,00	0,00	74.916,08	303.277,77
918+0,000	73,37	1.522,04	0,00	0,00	76.438,12	303.277,77
919+0,000	54,27	1.271,39	0,00	0,00	77.709,52	303.277,77
920+0,000	23,86	779,69	0,00	0,00	78.489,20	303.277,77
921+0,000	13,46	373,89	0,01	0,09	78.863,10	303.277,87
922+0,000	19,82	332,76	0,00	0,09	79.195,85	303.277,96
923+0,000	41,70	615,19	0,00	0,00	79.811,04	303.277,96
924+0,000	44,38	860,86	0,00	0,00	80.671,90	303.277,96
925+0,000	32,43	768,17	0,00	0,00	81.440,07	303.277,96
926+0,000	21,91	543,44	0,00	0,00	81.983,52	303.277,96
927+0,000	17,00	389,12	0,00	0,00	82.372,64	303.277,96
928+0,000	16,58	334,71	0,00	0,00	82.707,35	303.277,96
929+0,000	21,93	382,24	0,00	0,00	83.089,60	303.277,96
930+0,000	26,28	477,86	0,00	0,00	83.567,45	303.277,96
931+0,000	27,53	534,63	0,00	0,00	84.102,08	303.277,96
932+0,000	23,64	509,97	0,00	0,00	84.612,06	303.277,96
933+0,000	9,75	333,25	0,00	0,00	84.945,31	303.277,96
934+0,000	0,00	97,38	6,73	67,21	85.042,69	303.345,17
935+0,000	0,00	0,00	20,65	273,58	85.042,69	303.618,75
936+0,000	0,00	0,00	40,74	613,96	85.042,69	304.232,71
937+0,000	0,00	0,00	66,19	1.069,31	85.042,69	305.302,02
938+0,000	0,00	0,00	105,26	1.714,46	85.042,69	307.016,48
939+0,000	0,00	0,00	160,23	2.654,90	85.042,69	309.671,38
940+0,000	0,00	0,00	194,06	3.542,94	85.042,69	313.214,32
941+0,000	0,00	0,00	139,49	3.335,56	85.042,69	316.549,88
942+0,000	0,00	0,00	97,37	2.368,66	85.042,69	318.918,53
943+0,000	0,00	0,00	65,51	1.628,83	85.042,69	320.547,37
944+0,000	0,00	0,00	39,03	1.045,44	85.042,69	321.592,81
945+0,000	0,00	0,00	19,60	586,38	85.042,69	322.179,19
946+0,000	0,00	0,00	10,60	302,07	85.042,69	322.481,26
947+0,000	2,04	20,40	0,59	111,95	85.063,09	322.593,20
948+0,000	3,88	59,19	0,02	6,14	85.122,28	322.599,35
949+0,000	0,74	46,20	1,63	16,52	85.168,48	322.615,86
950+0,000	1,03	17,72	0,51	21,48	85.186,19	322.637,34
951+0,000	2,13	31,43	1,40	19,24	85.217,63	322.656,58
952+0,000	8,44	105,32	0,00	14,20	85.322,95	322.670,77

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
953+0,000	28,79	372,48	0,00	0,04	85.695,43	322.670,81
954+0,000	54,91	839,98	0,00	0,02	86.535,41	322.670,84
955+0,000	101,95	1.578,73	0,00	0,00	88.114,14	322.670,84
956+0,000	107,76	2.110,45	0,00	0,00	90.224,59	322.670,84
957+0,000	86,87	1.953,64	0,00	0,00	92.178,23	322.670,84
958+0,000	70,81	1.578,52	0,00	0,00	93.756,74	322.670,84
959+0,000	46,95	1.177,07	0,00	0,00	94.933,81	322.670,84
960+0,000	16,62	633,51	0,35	3,58	95.567,33	322.674,41
961+0,000	2,44	188,90	5,61	60,61	95.756,23	322.735,02
962+0,000	0,00	24,08	7,32	130,23	95.780,31	322.865,25
963+0,000	0,00	0,00	8,47	157,95	95.780,31	323.023,20
964+0,000	0,00	0,00	8,50	169,68	95.780,31	323.192,89
965+0,000	0,00	0,00	11,48	199,77	95.780,31	323.392,66
966+0,000	0,00	0,00	12,14	236,16	95.780,31	323.628,82
967+0,000	0,00	0,00	17,69	298,27	95.780,31	323.927,08
968+0,000	0,00	0,00	19,82	375,09	95.780,31	324.302,17
969+0,000	0,00	0,00	26,82	466,45	95.780,31	324.768,62
970+0,000	0,00	0,00	30,87	576,91	95.780,31	325.345,54
971+0,000	0,00	0,00	50,92	817,84	95.780,31	326.163,37
972+0,000	0,00	0,00	50,61	1.015,23	95.780,31	327.178,60
973+0,000	0,00	0,00	63,59	1.141,94	95.780,31	328.320,55
974+0,000	0,00	0,00	70,60	1.341,89	95.780,31	329.662,43
975+0,000	0,00	0,00	72,96	1.435,59	95.780,31	331.098,03
976+0,000	0,00	0,00	66,36	1.393,15	95.780,31	332.491,18
977+0,000	0,00	0,00	55,49	1.218,51	95.780,31	333.709,69
978+0,000	0,00	0,00	36,92	924,24	95.780,31	334.633,93
979+0,000	0,00	0,00	22,44	593,65	95.780,31	335.227,58
980+0,000	0,07	0,68	5,11	275,55	95.780,99	335.503,13
981+0,000	12,77	128,05	0,00	51,09	95.909,04	335.554,22
982+0,000	29,65	423,33	0,00	0,01	96.332,37	335.554,23
983+0,000	46,28	757,94	0,00	0,00	97.090,31	335.554,23
984+0,000	59,38	1.054,73	0,00	0,02	98.145,04	335.554,25
985+0,000	76,49	1.356,13	0,00	0,03	99.501,17	335.554,29
986+0,000	90,35	1.664,87	0,00	0,01	101.166,04	335.554,30
987+0,000	102,43	1.927,83	0,00	0,00	103.093,87	335.554,30
988+0,000	100,76	2.031,91	0,00	0,00	105.125,78	335.554,30
989+0,000	82,65	1.834,11	0,00	0,00	106.959,89	335.554,30
990+0,000	60,73	1.433,80	0,00	0,00	108.393,69	335.554,30
991+0,000	30,21	909,34	0,00	0,00	109.303,02	335.554,30
992+0,000	11,48	416,83	0,00	0,00	109.719,86	335.554,30
993+0,000	0,00	114,76	7,88	78,76	109.834,62	335.633,06
994+0,000	0,00	0,00	30,51	383,82	109.834,62	336.016,88
995+0,000	0,00	0,00	46,40	769,10	109.834,62	336.785,98
996+0,000	0,00	0,00	59,15	1.055,57	109.834,62	337.841,55
997+0,000	0,00	0,00	50,54	1.096,97	109.834,62	338.938,53
998+0,000	0,00	0,00	42,20	927,40	109.834,62	339.865,93
999+0,000	0,00	0,00	24,35	665,44	109.834,62	340.531,37
1000+0,000	0,00	0,00	13,60	379,47	109.834,62	340.910,84
1001+0,000	0,00	0,00	5,72	193,19	109.834,62	341.104,03
1002+0,000	0,00	0,00	1,75	74,70	109.834,62	341.178,73
1003+0,000	0,00	0,00	7,47	92,22	109.834,62	341.270,94
1004+0,000	0,00	0,00	10,81	182,82	109.834,62	341.453,76
1005+0,000	0,00	0,00	9,76	205,75	109.834,62	341.659,51
1006+0,000	0,00	0,00	13,79	235,56	109.834,62	341.895,07
1007+0,000	0,00	0,00	11,71	255,04	109.834,62	342.150,12
1008+0,000	0,00	0,00	14,39	261,03	109.834,62	342.411,15
1009+0,000	0,00	0,00	15,61	300,00	109.834,62	342.711,16
1010+0,000	0,00	0,00	15,77	313,80	109.834,62	343.024,96
1011+0,000	0,00	0,00	15,20	309,67	109.834,62	343.334,63
1012+0,000	0,00	0,00	21,66	368,60	109.834,62	343.703,23
1013+0,000	0,00	0,00	19,02	406,88	109.834,62	344.110,10
1014+0,000	0,00	0,00	21,65	406,83	109.834,62	344.516,93
1015+0,000	0,00	0,00	6,52	281,17	109.834,62	344.798,10

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1016+0,000	0,00	0,00	11,51	178,87	109.834,62	344.976,97
1017+0,000	0,00	0,00	7,11	184,81	109.834,62	345.161,78
1018+0,000	0,07	0,69	10,64	175,81	109.835,30	345.337,58
1019+0,000	0,00	0,69	20,25	307,67	109.835,99	345.645,25
1020+0,000	0,00	0,00	46,49	662,21	109.835,99	346.307,47
1021+0,000	0,00	0,00	49,70	956,03	109.835,99	347.263,50
1022+0,000	0,00	0,01	50,92	1.005,76	109.836,00	348.269,26
1023+0,000	0,00	0,01	43,63	946,05	109.836,01	349.215,30
1024+0,000	0,00	0,00	28,96	726,89	109.836,01	349.942,20
1025+0,000	0,00	0,00	19,13	481,31	109.836,01	350.423,51
1026+0,000	0,00	0,00	12,14	310,51	109.836,01	350.734,02
1027+0,000	0,51	5,18	5,22	170,19	109.841,19	350.904,21
1028+0,000	6,05	66,48	2,93	78,69	109.907,67	350.982,90
1029+0,000	6,97	131,65	9,38	119,86	110.039,31	351.102,76
1030+0,000	10,32	173,78	12,94	220,91	110.213,10	351.323,67
1031+0,000	8,79	191,15	15,96	289,05	110.404,24	351.612,72
1032+0,000	4,29	130,84	20,20	361,63	110.535,09	351.974,34
1033+0,000	5,35	96,48	17,18	373,82	110.631,57	352.348,17
1034+0,000	6,52	118,72	12,17	293,55	110.750,28	352.641,71
1035+0,000	8,73	152,48	0,94	131,10	110.902,77	352.772,82
1036+0,000	6,48	152,15	0,47	14,14	111.054,92	352.786,95
1037+0,000	8,15	145,75	0,03	5,08	111.200,67	352.792,04
1038+0,000	26,16	329,21	0,25	2,80	111.529,88	352.794,84
1039+0,000	49,56	710,50	0,18	4,39	112.240,38	352.799,23
1040+0,000	61,19	1.041,73	1,15	13,70	113.282,11	352.812,92
1041+0,000	24,89	813,34	15,72	175,02	114.095,45	352.987,95
1042+0,000	0,00	241,00	57,62	745,17	114.336,45	353.733,11
1043+0,000	0,00	0,00	28,32	859,42	114.336,45	354.592,53
1044+0,000	57,73	577,32	0,00	283,17	114.913,77	354.875,70
1045+0,000	168,00	2.257,28	0,00	0,00	117.171,05	354.875,70
1046+0,000	172,86	3.408,55	0,00	0,00	120.579,60	354.875,70
1047+0,000	73,97	2.468,32	0,00	0,00	123.047,92	354.875,70
1048+0,000	15,91	898,84	0,71	7,12	123.946,76	354.882,82
1049+0,000	0,00	159,11	32,57	332,85	124.105,87	355.215,67
1050+0,000	0,00	0,00	61,81	943,87	124.105,87	356.159,54
1051+0,000	0,00	0,00	80,31	1.421,28	124.105,87	357.580,82
1052+0,000	0,00	0,00	80,37	1.606,89	124.105,87	359.187,71
1053+0,000	0,00	0,00	62,71	1.430,85	124.105,87	360.618,56
1054+0,000	0,00	0,00	40,30	1.030,06	124.105,87	361.648,62
1055+0,000	5,12	51,18	24,48	647,80	124.157,05	362.296,41
1056+0,000	18,71	238,29	23,91	483,96	124.395,35	362.780,37
1057+0,000	11,76	304,69	30,11	540,16	124.700,04	363.320,53
1058+0,000	0,00	117,58	63,07	931,73	124.817,63	364.252,26
1059+0,000	0,00	0,00	132,22	1.952,85	124.817,63	366.205,11
1060+0,000	0,00	0,00	160,33	2.925,46	124.817,63	369.130,57
1061+0,000	0,00	0,00	156,55	3.175,71	124.817,63	372.306,28
1062+0,000	0,00	0,00	133,35	2.910,44	124.817,63	375.216,72
1063+0,000	0,00	0,00	105,57	2.396,01	124.817,63	377.612,73
1064+0,000	0,00	0,00	73,38	1.793,68	124.817,63	379.406,42
1065+0,000	0,00	0,00	55,60	1.293,34	124.817,63	380.699,76
1066+0,000	0,00	0,00	21,25	769,23	124.817,63	381.468,99
1067+0,000	0,00	0,00	9,75	308,70	124.817,63	381.777,69
1068+0,000	0,00	0,00	5,73	154,48	124.817,63	381.932,17
1069+0,000	0,00	0,00	2,57	83,07	124.817,63	382.015,24
1070+0,000	6,20	62,17	0,00	25,79	124.879,80	382.041,03
1071+0,000	26,44	326,45	0,00	0,00	125.206,25	382.041,03
1072+0,000	72,74	991,87	0,00	0,00	126.198,12	382.041,03
1073+0,000	100,27	1.730,16	0,00	0,00	127.928,28	382.041,03
1074+0,000	115,49	2.157,59	0,00	0,00	130.085,87	382.041,03
1075+0,000	97,99	2.134,75	0,00	0,00	132.220,62	382.041,03
1076+0,000	72,86	1.708,44	0,00	0,00	133.929,07	382.041,03
1077+0,000	54,72	1.275,79	0,00	0,00	135.204,85	382.041,03
1078+0,000	39,14	938,65	0,00	0,00	136.143,50	382.041,03

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1079+0,000	24,69	638,30	0,00	0,00	136.781,80	382.041,03
1080+0,000	13,58	382,68	0,00	0,00	137.164,48	382.041,03
1081+0,000	4,15	177,32	0,17	1,72	137.341,80	382.042,75
1082+0,000	1,40	55,47	1,55	17,21	137.397,27	382.059,95
1083+0,000	0,00	13,97	6,26	78,08	137.411,23	382.138,03
1084+0,000	0,00	0,00	6,30	125,54	137.411,23	382.263,57
1085+0,000	0,00	0,00	5,29	115,84	137.411,23	382.379,41
1086+0,000	0,41	4,08	0,99	62,75	137.415,32	382.442,16
1087+0,000	2,03	24,38	0,35	13,36	137.439,70	382.455,52
1088+0,000	7,68	97,08	0,00	3,50	137.536,77	382.459,03
1089+0,000	8,44	161,15	0,47	4,75	137.697,92	382.463,78
1090+0,000	6,98	154,18	2,08	25,52	137.852,10	382.489,29
1091+0,000	7,10	140,81	3,16	52,35	137.992,91	382.541,64
1092+0,000	2,38	94,27	3,54	67,13	138.087,18	382.608,77
1093+0,000	3,73	61,20	3,22	67,35	138.148,38	382.676,12
1094+0,000	3,46	72,16	0,04	32,37	138.220,53	382.708,49
1095+0,000	0,00	34,66	1,47	14,99	138.255,19	382.723,48
1096+0,000	0,00	0,00	9,52	109,74	138.255,19	382.833,22
1097+0,000	0,00	0,00	16,03	255,43	138.255,19	383.088,66
1098+0,000	0,00	0,00	21,24	372,59	138.255,19	383.461,24
1099+0,000	0,00	0,00	26,25	474,67	138.255,19	383.935,92
1100+0,000	0,00	0,00	28,96	551,86	138.255,19	384.487,77
1101+0,000	0,00	0,00	23,84	528,05	138.255,19	385.015,83
1102+0,000	0,00	0,00	18,86	427,08	138.255,19	385.442,91
1103+0,000	0,00	0,00	16,73	355,91	138.255,19	385.798,82
1104+0,000	0,00	0,00	13,37	301,02	138.255,19	386.099,84
1105+0,000	0,00	0,00	10,91	242,80	138.255,19	386.342,65
1106+0,000	0,00	0,00	7,41	183,18	138.255,19	386.525,83
1107+0,000	0,00	0,00	5,08	124,93	138.255,19	386.650,76
1108+0,000	0,00	0,00	2,78	78,57	138.255,19	386.729,34
1109+0,000	0,01	0,09	1,50	42,76	138.255,28	386.772,10
1110+0,000	0,00	0,09	1,97	34,66	138.255,38	386.806,76
1111+0,000	0,00	0,00	3,67	56,32	138.255,38	386.863,08
1112+0,000	0,00	0,00	6,60	102,69	138.255,38	386.965,77
1113+0,000	0,00	0,00	9,15	157,52	138.255,38	387.123,29
1114+0,000	0,00	0,00	10,74	198,85	138.255,38	387.322,15
1115+0,000	0,00	0,00	13,24	239,79	138.255,38	387.561,94
1116+0,000	0,00	0,00	17,00	302,43	138.255,38	387.864,36
1117+0,000	0,00	0,00	22,79	397,90	138.255,38	388.262,26
1118+0,000	0,00	0,00	36,99	597,81	138.255,38	388.860,07
1119+0,000	0,00	0,00	106,29	1.432,80	138.255,38	390.292,86
1120+0,000	0,00	0,00	133,31	2.395,95	138.255,38	392.688,81
1121+0,000	0,00	0,00	94,32	2.276,26	138.255,38	394.965,07
1122+0,000	0,00	0,00	33,65	1.279,71	138.255,38	396.244,78
1123+0,000	0,00	0,00	18,10	517,53	138.255,38	396.762,31
1124+0,000	0,00	0,00	14,11	322,15	138.255,38	397.084,46
1125+0,000	0,00	0,00	13,95	280,60	138.255,38	397.365,05
1126+0,000	0,00	0,00	24,32	382,70	138.255,38	397.747,75
1127+0,000	0,00	0,00	35,89	602,14	138.255,38	398.349,89
1128+0,000	0,00	0,00	58,86	947,50	138.255,38	399.297,39
1129+0,000	0,00	0,00	65,23	1.240,93	138.255,38	400.538,32
1130+0,000	0,00	0,00	58,66	1.238,94	138.255,38	401.777,26
1131+0,000	0,00	0,00	56,85	1.155,12	138.255,38	402.932,38
1132+0,000	0,00	0,00	43,80	1.006,46	138.255,38	403.938,83
1133+0,000	0,00	0,00	36,20	799,96	138.255,38	404.738,79
1134+0,000	0,00	0,00	30,93	671,27	138.255,38	405.410,06
1135+0,000	0,00	0,00	28,30	592,25	138.255,38	406.002,31
1136+0,000	0,00	0,00	24,75	530,43	138.255,38	406.532,74
1137+0,000	0,00	0,00	21,29	460,39	138.255,38	406.993,13
1138+0,000	0,00	0,00	16,70	379,94	138.255,38	407.373,07
1139+0,000	0,00	0,00	17,69	343,86	138.255,38	407.716,92
1140+0,000	0,00	0,00	15,09	327,71	138.255,38	408.044,63
1141+0,000	0,00	0,00	13,30	283,90	138.255,38	408.328,53

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1142+0,000	0,00	0,00	12,04	253,49	138.255,38	408.582,02
1143+0,000	0,00	0,00	11,80	238,50	138.255,38	408.820,51
1144+0,000	0,00	0,00	10,68	224,83	138.255,38	409.045,34
1145+0,000	0,00	0,00	10,27	209,44	138.255,38	409.254,78
1146+0,000	0,00	0,00	9,64	199,02	138.255,38	409.453,81
1147+0,000	0,00	0,00	9,05	186,86	138.255,38	409.640,67
1148+0,000	0,00	0,00	9,31	183,55	138.255,38	409.824,21
1149+0,000	0,00	0,00	9,52	188,30	138.255,38	410.012,51
1150+0,000	0,00	0,00	10,10	196,28	138.255,38	410.208,79
1151+0,000	0,00	0,00	10,16	202,65	138.255,38	410.411,45
1152+0,000	0,01	0,10	13,91	240,85	138.255,48	410.652,30
1153+0,000	0,00	0,13	14,05	279,90	138.255,61	410.932,19
1154+0,000	0,00	0,04	14,76	288,35	138.255,65	411.220,54
1155+0,000	0,00	0,01	17,21	319,97	138.255,66	411.540,52
1156+0,000	0,00	0,01	18,92	361,59	138.255,67	411.902,11
1157+0,000	0,00	0,01	21,83	407,77	138.255,67	412.309,88
1158+0,000	0,00	0,00	23,51	453,66	138.255,67	412.763,53
1159+0,000	0,00	0,00	25,28	488,20	138.255,67	413.251,74
1160+0,000	0,00	0,00	27,64	529,51	138.255,67	413.781,24
1161+0,000	0,00	0,00	27,87	555,38	138.255,67	414.336,62
1162+0,000	0,00	0,00	29,37	572,71	138.255,67	414.909,33
1163+0,000	0,00	0,00	29,04	584,44	138.255,67	415.493,77
1164+0,000	0,00	0,00	28,64	577,14	138.255,67	416.070,90
1165+0,000	0,00	0,00	28,41	570,84	138.255,67	416.641,74
1166+0,000	0,00	0,00	27,48	559,29	138.255,67	417.201,04
1167+0,000	0,00	0,00	26,00	535,13	138.255,67	417.736,17
1168+0,000	0,00	0,00	25,64	516,62	138.255,67	418.252,79
1169+0,000	0,00	0,00	23,52	491,80	138.255,67	418.744,59
1170+0,000	0,00	0,00	20,94	444,78	138.255,67	419.189,37
1171+0,000	0,00	0,00	18,94	399,02	138.255,67	419.588,39
1172+0,000	0,00	0,00	17,78	367,45	138.255,67	419.955,84
1173+0,000	0,00	0,00	14,90	326,98	138.255,67	420.282,82
1174+0,000	0,00	0,00	13,01	279,21	138.255,67	420.562,02
1175+0,000	0,00	0,00	11,58	246,00	138.255,67	420.808,02
1176+0,000	0,00	0,00	10,71	222,93	138.255,68	421.030,95
1177+0,000	0,00	0,00	10,72	214,22	138.255,68	421.245,17
1178+0,000	0,00	0,00	11,31	220,25	138.255,68	421.465,42
1179+0,000	0,00	0,00	11,32	226,23	138.255,68	421.691,65
1180+0,000	0,00	0,00	12,08	233,93	138.255,68	421.925,58
1181+0,000	0,00	0,00	12,48	245,51	138.255,68	422.171,09
1182+0,000	0,00	0,00	14,24	267,15	138.255,68	422.438,24
1183+0,000	0,00	0,00	14,95	291,92	138.255,68	422.730,16
1184+0,000	0,00	0,00	18,31	332,58	138.255,68	423.062,74
1185+0,000	0,00	0,00	19,30	376,02	138.255,68	423.438,77
1186+0,000	0,00	0,00	17,77	370,66	138.255,68	423.809,42
1187+0,000	0,00	0,00	18,80	365,66	138.255,68	424.175,08
1188+0,000	0,00	0,00	18,23	370,23	138.255,68	424.545,31
1189+0,000	0,00	0,00	16,84	350,71	138.255,68	424.896,02
1190+0,000	0,00	0,00	17,67	345,19	138.255,68	425.241,21
1191+0,000	0,00	0,00	13,11	307,82	138.255,68	425.549,03
1192+0,000	0,00	0,00	9,71	228,19	138.255,68	425.777,22
1193+0,000	0,00	0,00	7,50	172,10	138.255,68	425.949,32
1194+0,000	0,26	2,59	2,72	102,15	138.258,27	426.051,48
1195+0,000	0,29	5,49	2,32	50,39	138.263,76	426.101,87
1196+0,000	0,89	11,83	1,56	38,83	138.275,59	426.140,70
1197+0,000	1,00	18,90	1,74	33,04	138.294,50	426.173,74
1198+0,000	0,06	10,58	3,54	52,82	138.305,07	426.226,55
1199+0,000	0,00	0,60	5,54	90,83	138.305,68	426.317,38
1200+0,000	0,00	0,00	8,01	135,54	138.305,68	426.452,91
1201+0,000	0,00	0,00	10,38	183,92	138.305,68	426.636,83
1202+0,000	0,00	0,00	13,80	241,86	138.305,68	426.878,69
1203+0,000	0,00	0,00	13,76	275,62	138.305,68	427.154,31
1204+0,000	0,00	0,00	8,86	226,16	138.305,68	427.380,46

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1205+0,000	0,00	0,00	19,41	282,68	138.305,68	427.663,15
1206+0,000	0,00	0,00	15,01	344,17	138.305,68	428.007,32
1207+0,000	0,00	0,00	15,56	305,63	138.305,68	428.312,95
1208+0,000	0,00	0,00	13,19	287,50	138.305,68	428.600,44
1209+0,000	0,00	0,00	12,30	254,98	138.305,68	428.855,42
1210+0,000	0,00	0,00	10,64	229,42	138.305,68	429.084,84
1211+0,000	0,00	0,00	9,92	205,62	138.305,68	429.290,47
1212+0,000	0,00	0,00	9,10	190,27	138.305,68	429.480,74
1213+0,000	0,01	0,08	9,25	183,57	138.305,76	429.664,31
1214+0,000	0,00	0,08	9,01	182,59	138.305,84	429.846,90
1215+0,000	0,00	0,00	8,55	175,55	138.305,84	430.022,45
1216+0,000	0,00	0,00	7,98	165,29	138.305,84	430.187,74
1217+0,000	0,00	0,00	8,12	160,98	138.305,84	430.348,72
1218+0,000	0,00	0,00	7,84	159,64	138.305,84	430.508,36
1219+0,000	0,00	0,00	9,02	168,69	138.305,84	430.677,05
1220+0,000	0,00	0,00	9,27	182,94	138.305,84	430.859,99
1221+0,000	0,00	0,00	11,21	204,76	138.305,84	431.064,74
1222+0,000	0,00	0,00	15,00	262,09	138.305,84	431.326,84
1223+0,000	0,00	0,00	20,01	350,10	138.305,84	431.676,94
1224+0,000	0,00	0,00	24,63	446,34	138.305,84	432.123,28
1225+0,000	0,00	0,00	29,61	542,32	138.305,84	432.665,60
1226+0,000	0,00	0,00	34,23	638,30	138.305,84	433.303,90
1227+0,000	0,00	0,00	39,14	733,68	138.305,84	434.037,59
1228+0,000	0,00	0,00	42,72	818,61	138.305,84	434.856,20
1229+0,000	0,00	0,00	45,76	884,76	138.305,84	435.740,96
1230+0,000	0,00	0,00	45,82	915,75	138.305,84	436.656,71
1231+0,000	0,00	0,00	43,34	891,59	138.305,84	437.548,30
1232+0,000	0,00	0,00	41,82	851,58	138.305,84	438.399,88
1233+0,000	0,00	0,00	37,26	790,74	138.305,84	439.190,61
1234+0,000	0,00	0,00	30,53	677,87	138.305,84	439.868,48
1235+0,000	0,00	0,00	26,08	566,10	138.305,84	440.434,59
1236+0,000	0,00	0,00	19,81	458,90	138.305,84	440.893,49
1237+0,000	0,00	0,00	16,85	366,55	138.305,84	441.260,03
1238+0,000	0,00	0,00	10,54	273,83	138.305,84	441.533,86
1239+0,000	0,00	0,00	5,76	162,96	138.305,84	441.696,82
1240+0,000	0,00	0,00	3,88	96,41	138.305,84	441.793,23
1241+0,000	0,00	0,00	3,42	73,03	138.305,84	441.866,27
1242+0,000	0,00	0,00	4,38	78,01	138.305,84	441.944,28
1243+0,000	0,00	0,00	5,51	98,90	138.305,84	442.043,18
1244+0,000	0,00	0,00	5,69	112,03	138.305,84	442.155,21
1245+0,000	0,00	0,00	6,46	121,53	138.305,84	442.276,73
1246+0,000	0,00	0,00	7,44	139,04	138.305,84	442.415,77
1247+0,000	0,00	0,00	7,28	147,23	138.305,84	442.562,99
1248+0,000	0,00	0,00	7,90	151,81	138.305,84	442.714,80
1249+0,000	0,00	0,00	8,19	160,94	138.305,84	442.875,74
1250+0,000	0,00	0,00	8,63	168,24	138.305,84	443.043,98
1251+0,000	0,00	0,00	9,90	185,36	138.305,84	443.229,33
1252+0,000	0,00	0,00	10,54	204,43	138.305,84	443.433,76
1253+0,000	0,00	0,00	10,68	212,20	138.305,84	443.645,96
1254+0,000	0,00	0,00	11,99	226,71	138.305,84	443.872,67
1255+0,000	0,00	0,00	11,48	234,74	138.305,84	444.107,41
1256+0,000	0,00	0,00	12,32	238,05	138.305,84	444.345,46
1257+0,000	0,00	0,00	12,52	248,42	138.305,84	444.593,88
1258+0,000	0,00	0,00	12,46	249,86	138.305,84	444.843,74
1259+0,000	0,00	0,00	12,96	254,27	138.305,84	445.098,01
1260+0,000	0,00	0,00	13,62	265,81	138.305,84	445.363,82
1261+0,000	0,00	0,00	12,98	265,96	138.305,84	445.629,78
1262+0,000	0,00	0,00	11,90	248,80	138.305,84	445.878,58
1263+0,000	0,00	0,00	10,02	219,26	138.305,84	446.097,84
1264+0,000	0,00	0,00	9,57	195,93	138.305,84	446.293,77
1265+0,000	0,00	0,00	9,36	189,31	138.305,84	446.483,08
1266+0,000	0,00	0,00	10,13	194,87	138.305,84	446.677,96
1267+0,000	0,00	0,00	9,66	197,88	138.305,84	446.875,84

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1268+0,000	0,00	0,00	9,58	192,41	138.305,84	447.068,25
1269+0,000	0,00	0,00	10,32	198,95	138.305,84	447.267,20
1270+0,000	0,00	0,00	10,61	209,24	138.305,84	447.476,44
1271+0,000	0,00	0,00	12,43	230,37	138.305,84	447.706,82
1272+0,000	0,00	0,00	11,81	242,37	138.305,84	447.949,19
1273+0,000	0,00	0,00	11,37	231,82	138.305,84	448.181,01
1274+0,000	0,00	0,00	12,55	239,25	138.305,84	448.420,26
1275+0,000	0,00	0,00	12,03	245,83	138.305,84	448.666,09
1276+0,000	0,00	0,00	13,84	258,67	138.305,84	448.924,77
1277+0,000	0,00	0,00	13,01	268,47	138.305,84	449.193,24
1278+0,000	0,00	0,00	13,73	267,44	138.305,84	449.460,68
1279+0,000	0,00	0,00	12,27	260,04	138.305,84	449.720,72
1280+0,000	0,00	0,00	11,61	238,86	138.305,84	449.959,57
1281+0,000	0,00	0,00	10,57	221,81	138.305,84	450.181,39
1282+0,000	0,00	0,00	8,94	195,12	138.305,84	450.376,51
1283+0,000	0,00	0,00	7,71	166,51	138.305,84	450.543,02
1284+0,000	0,00	0,00	7,47	151,74	138.305,84	450.694,76
1285+0,000	0,00	0,00	6,98	144,52	138.305,84	450.839,28
1286+0,000	0,00	0,00	7,02	140,09	138.305,84	450.979,37
1287+0,000	0,00	0,00	4,68	117,02	138.305,84	451.096,39
1288+0,000	0,00	0,00	6,48	111,63	138.305,84	451.208,02
1289+0,000	0,00	0,00	6,73	132,18	138.305,84	451.340,20
1290+0,000	0,00	0,00	8,12	148,58	138.305,84	451.488,79
1291+0,000	0,00	0,00	8,30	164,28	138.305,84	451.653,06
1292+0,000	0,00	0,00	8,12	164,24	138.305,84	451.817,31
1293+0,000	0,00	0,00	9,85	179,69	138.305,84	451.997,00
1294+0,000	0,00	0,00	9,83	196,75	138.305,84	452.193,75
1295+0,000	0,00	0,00	12,59	224,18	138.305,84	452.417,94
1296+0,000	0,00	0,00	17,11	297,05	138.305,84	452.714,99
1297+0,000	0,00	0,00	21,44	385,49	138.305,84	453.100,48
1298+0,000	0,00	0,00	25,95	473,91	138.305,84	453.574,38
1299+0,000	0,00	0,00	29,84	557,91	138.305,84	454.132,29
1300+0,000	0,00	0,00	33,44	632,80	138.305,84	454.765,09
1301+0,000	0,00	0,00	36,81	702,52	138.305,84	455.467,61
1302+0,000	0,00	0,00	40,35	771,63	138.305,84	456.239,25
1303+0,000	0,00	0,00	40,14	804,91	138.305,84	457.044,15
1304+0,000	0,00	0,00	36,22	763,56	138.305,84	457.807,71
1305+0,000	0,00	0,00	33,61	698,28	138.305,84	458.505,99
1306+0,000	0,00	0,00	27,18	607,92	138.305,84	459.113,91
1307+0,000	0,00	0,00	21,34	485,27	138.305,84	459.599,19
1308+0,000	0,00	0,00	15,86	371,99	138.305,84	459.971,18
1309+0,000	0,00	0,00	12,58	284,35	138.305,84	460.255,53
1310+0,000	0,00	0,00	7,52	200,97	138.305,84	460.456,50
1311+0,000	0,00	0,00	5,40	129,16	138.305,84	460.585,65
1312+0,000	0,00	0,00	2,96	83,56	138.305,84	460.669,21
1313+0,000	0,76	7,61	1,63	45,86	138.313,45	460.715,07
1314+0,000	2,54	32,99	0,14	17,65	138.346,44	460.732,72
1315+0,000	3,10	56,34	0,14	2,78	138.402,78	460.735,50
1316+0,000	1,83	49,27	1,06	12,05	138.452,05	460.747,55
1317+0,000	1,81	36,45	0,50	15,63	138.488,50	460.763,17
1318+0,000	0,17	19,89	2,13	26,29	138.508,39	460.789,46
1319+0,000	0,00	1,74	5,50	76,33	138.510,13	460.865,79
1320+0,000	0,00	0,00	6,58	120,79	138.510,13	460.986,58
1321+0,000	0,00	0,00	8,59	151,64	138.510,13	461.138,22
1322+0,000	0,00	0,00	7,69	162,76	138.510,13	461.300,98
1323+0,000	0,00	0,00	7,30	149,89	138.510,13	461.450,87
1324+0,000	0,00	0,00	9,50	168,01	138.510,13	461.618,88
1325+0,000	0,00	0,00	8,19	176,88	138.510,13	461.795,76
1326+0,000	0,00	0,00	7,15	153,34	138.510,13	461.949,10
1327+0,000	0,00	0,00	7,40	145,45	138.510,13	462.094,55
1328+0,000	0,00	0,00	9,51	169,14	138.510,13	462.263,68
1329+0,000	0,00	0,00	12,72	222,30	138.510,13	462.485,98
1330+0,000	0,00	0,00	16,55	292,67	138.510,13	462.778,65

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1331+0,000	0,00	0,00	21,09	376,44	138.510,13	463.155,09
1332+0,000	0,00	0,00	27,76	488,51	138.510,13	463.643,60
1333+0,000	0,00	0,00	32,55	603,10	138.510,13	464.246,70
1334+0,000	0,00	0,00	37,38	699,31	138.510,13	464.946,01
1335+0,000	0,00	0,00	40,35	777,31	138.510,13	465.723,32
1336+0,000	0,00	0,00	42,30	826,52	138.510,13	466.549,84
1337+0,000	0,00	0,00	41,76	840,65	138.510,13	467.390,49
1338+0,000	0,00	0,00	38,97	807,34	138.510,13	468.197,83
1339+0,000	0,00	0,00	34,00	729,72	138.510,13	468.927,55
1340+0,000	0,00	0,00	23,53	575,28	138.510,13	469.502,83
1341+0,000	0,00	0,00	28,45	519,81	138.510,13	470.022,65
1342+0,000	0,00	0,00	24,17	526,27	138.510,13	470.548,91
1343+0,000	0,00	0,00	23,06	472,34	138.510,13	471.021,25
1344+0,000	0,01	0,12	16,70	397,62	138.510,25	471.418,87
1345+0,000	0,00	0,12	17,12	338,16	138.510,37	471.757,04
1346+0,000	0,00	0,00	14,90	320,17	138.510,37	472.077,21
1347+0,000	1,19	11,87	9,13	240,27	138.522,24	472.317,47
1348+0,000	0,72	19,08	2,28	114,04	138.541,33	472.431,51
1349+0,000	0,04	7,56	3,64	59,18	138.548,89	472.490,69
1350+0,000	0,00	0,35	4,05	76,88	138.549,24	472.567,58
1351+0,000	0,00	0,00	4,85	88,96	138.549,24	472.656,54
1352+0,000	0,00	0,00	5,63	104,79	138.549,24	472.761,32
1353+0,000	0,00	0,00	8,50	141,31	138.549,24	472.902,63
1354+0,000	0,00	0,00	9,94	184,38	138.549,24	473.087,01
1355+0,000	0,00	0,00	8,72	186,56	138.549,24	473.273,57
1356+0,000	0,03	0,27	9,77	184,90	138.549,51	473.458,48
1357+0,000	0,00	0,27	10,87	206,41	138.549,78	473.664,89
1358+0,000	0,00	0,00	12,60	234,73	138.549,78	473.899,62
1359+0,000	0,00	0,00	12,85	254,53	138.549,78	474.154,15
1360+0,000	0,00	0,00	15,98	288,29	138.549,78	474.442,44
1361+0,000	0,00	0,00	12,92	289,00	138.549,78	474.731,44
1362+0,000	0,00	0,00	11,80	247,19	138.549,78	474.978,63
1363+0,000	0,00	0,00	12,15	239,45	138.549,78	475.218,08
1364+0,000	0,00	0,00	12,84	249,88	138.549,78	475.467,96
1365+0,000	0,00	0,00	10,67	235,08	138.549,78	475.703,04
1366+0,000	0,00	0,00	9,90	205,63	138.549,78	475.908,68
1367+0,000	0,00	0,00	12,07	219,64	138.549,78	476.128,32
1368+0,000	0,00	0,00	12,59	246,56	138.549,78	476.374,88
1369+0,000	0,00	0,00	14,71	272,95	138.549,78	476.647,83
1370+0,000	0,00	0,00	17,35	320,55	138.549,78	476.968,38
1371+0,000	0,00	0,00	17,26	346,08	138.549,78	477.314,46
1372+0,000	0,00	0,00	19,62	368,77	138.549,78	477.683,24
1373+0,000	0,00	0,00	22,68	423,02	138.549,78	478.106,25
1374+0,000	0,00	0,00	21,45	441,32	138.549,78	478.547,57
1375+0,000	0,00	0,00	20,16	416,07	138.549,78	478.963,64
1376+0,000	0,00	0,00	16,88	370,37	138.549,78	479.334,01
1377+0,000	0,00	0,00	12,29	291,68	138.549,78	479.625,69
1378+0,000	0,00	0,00	7,24	195,29	138.549,78	479.820,99
1379+0,000	0,38	3,84	4,38	116,25	138.553,62	479.937,23
1380+0,000	1,14	15,22	2,18	65,69	138.568,83	480.002,92
1381+0,000	3,88	50,16	0,57	27,53	138.618,99	480.030,44
1382+0,000	3,56	74,34	0,69	12,57	138.693,33	480.043,02
1383+0,000	2,29	58,43	0,57	12,63	138.751,76	480.055,65
1384+0,000	0,69	29,82	2,86	34,39	138.781,59	480.090,03
1385+0,000	0,00	6,95	8,65	115,12	138.788,53	480.205,15
1386+0,000	0,00	0,00	14,16	228,05	138.788,53	480.433,20
1387+0,000	0,00	0,00	20,42	345,81	138.788,53	480.779,01
1388+0,000	0,00	0,00	29,21	496,30	138.788,53	481.275,30
1389+0,000	0,00	0,00	36,87	660,76	138.788,53	481.936,07
1390+0,000	0,00	0,00	46,32	831,95	138.788,53	482.768,02
1391+0,000	0,00	0,00	55,50	1.018,25	138.788,53	483.786,27
1392+0,000	0,00	0,00	61,99	1.174,92	138.788,53	484.961,19
1393+0,000	0,00	0,00	68,08	1.300,70	138.788,53	486.261,89

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1394+0,000	0,00	0,00	72,15	1.402,28	138.788,53	487.664,17
1395+0,000	0,00	0,00	71,19	1.433,37	138.788,53	489.097,54
1396+0,000	0,00	0,00	68,02	1.392,05	138.788,53	490.489,59
1397+0,000	0,00	0,00	64,68	1.326,92	138.788,53	491.816,51
1398+0,000	0,00	0,00	58,84	1.235,17	138.788,53	493.051,67
1399+0,000	0,00	0,00	53,81	1.126,48	138.788,53	494.178,15
1400+0,000	0,00	0,00	46,31	1.001,12	138.788,53	495.179,27
1401+0,000	0,00	0,00	41,07	873,77	138.788,53	496.053,04
1402+0,000	0,00	0,00	34,07	751,37	138.788,53	496.804,41
1403+0,000	0,00	0,00	28,13	621,99	138.788,53	497.426,39
1404+0,000	0,00	0,00	23,16	512,89	138.788,53	497.939,28
1405+0,000	0,00	0,00	19,18	423,35	138.788,53	498.362,64
1406+0,000	0,00	0,00	17,93	371,05	138.788,53	498.733,69
1407+0,000	0,00	0,00	16,04	339,66	138.788,53	499.073,35
1408+0,000	0,00	0,00	15,71	317,53	138.788,53	499.390,87
1409+0,000	0,00	0,00	14,57	302,80	138.788,53	499.693,67
1410+0,000	0,00	0,00	16,06	306,23	138.788,53	499.999,91
1411+0,000	0,00	0,00	15,47	315,30	138.788,53	500.315,21
1412+0,000	0,00	0,00	16,43	319,04	138.788,53	500.634,25
1413+0,000	0,00	0,00	14,25	306,81	138.788,53	500.941,06
1414+0,000	0,00	0,00	13,96	282,14	138.788,53	501.223,20
1415+0,000	0,00	0,00	12,66	266,22	138.788,53	501.489,42
1416+0,000	0,00	0,00	14,61	272,71	138.788,53	501.762,13
1417+0,000	0,00	0,00	10,95	255,64	138.788,53	502.017,77
1418+0,000	0,00	0,00	9,97	209,19	138.788,53	502.226,96
1419+0,000	0,00	0,00	8,10	180,69	138.788,53	502.407,65
1420+0,000	0,00	0,00	7,08	151,84	138.788,53	502.559,49
1421+0,000	0,00	0,00	5,82	129,01	138.788,53	502.688,50
1422+0,000	0,00	0,00	5,44	112,58	138.788,53	502.801,08
1423+0,000	0,00	0,00	4,00	94,36	138.788,53	502.895,44
1424+0,000	0,04	0,36	3,08	70,77	138.788,89	502.966,21
1425+0,000	0,09	1,24	2,48	55,58	138.790,14	503.021,78
1426+0,000	0,00	0,93	2,51	49,91	138.791,07	503.071,70
1427+0,000	0,00	0,06	2,84	53,52	138.791,12	503.125,22
1428+0,000	0,03	0,34	3,46	63,00	138.791,46	503.188,22
1429+0,000	0,00	0,33	4,23	76,97	138.791,79	503.265,19
1430+0,000	0,00	0,00	3,67	79,00	138.791,79	503.344,20
1431+0,000	0,00	0,00	3,85	75,20	138.791,79	503.419,40
1432+0,000	0,00	0,00	5,65	95,04	138.791,79	503.514,44
1433+0,000	0,00	0,00	6,93	125,84	138.791,79	503.640,28
1434+0,000	0,00	0,00	9,28	162,09	138.791,79	503.802,36
1435+0,000	0,00	0,00	11,64	209,11	138.791,79	504.011,47
1436+0,000	0,00	0,00	12,60	242,35	138.791,79	504.253,82
1437+0,000	0,00	0,00	11,52	241,17	138.791,79	504.494,99
1438+0,000	0,00	0,00	11,25	227,68	138.791,79	504.722,67
1439+0,000	0,00	0,00	12,05	233,00	138.791,79	504.955,67
1440+0,000	0,00	0,00	14,02	260,70	138.791,79	505.216,37
1441+0,000	0,00	0,00	34,07	480,87	138.791,79	505.697,24
1442+0,000	0,87	8,73	46,84	809,06	138.800,52	506.506,30
1443+0,000	0,00	8,73	46,25	930,92	138.809,25	507.437,22
1444+0,000	0,00	0,00	31,91	781,60	138.809,25	508.218,82
1445+0,000	0,00	0,00	27,00	589,03	138.809,25	508.807,85
1446+0,000	0,00	0,00	32,03	590,27	138.809,25	509.398,11
1447+0,000	0,00	0,00	36,24	682,67	138.809,25	510.080,78
1448+0,000	0,00	0,00	38,41	746,46	138.809,25	510.827,24
1449+0,000	0,00	0,00	32,61	710,19	138.809,25	511.537,42
1450+0,000	0,00	0,00	29,01	616,15	138.809,25	512.153,57
1451+0,000	0,00	0,00	34,17	631,78	138.809,25	512.785,35
1452+0,000	0,00	0,00	45,57	797,44	138.809,25	513.582,79
1453+0,000	0,00	0,00	47,81	933,84	138.809,25	514.516,63
1454+0,000	0,00	0,00	48,45	962,58	138.809,25	515.479,21
1455+0,000	0,00	0,00	47,41	958,55	138.809,25	516.437,76
1456+0,000	0,00	0,00	42,98	903,88	138.809,25	517.341,64

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1457+0,000	0,00	0,00	38,72	817,02	138.809,25	518.158,66
1458+0,000	0,00	0,00	32,92	716,44	138.809,25	518.875,10
1459+0,000	0,00	0,00	28,32	612,39	138.809,25	519.487,48
1460+0,000	0,00	0,00	23,44	517,62	138.809,25	520.005,10
1461+0,000	0,00	0,00	17,99	414,31	138.809,25	520.419,41
1462+0,000	0,00	0,00	11,11	291,00	138.809,25	520.710,41
1463+0,000	0,00	0,00	6,88	179,93	138.809,25	520.890,33
1464+0,000	0,00	0,00	3,35	102,32	138.809,25	520.992,65
1465+0,000	0,05	0,47	1,87	52,18	138.809,71	521.044,83
1466+0,000	0,65	6,94	0,21	20,80	138.816,65	521.065,63
1467+0,000	0,26	9,05	0,53	7,45	138.825,71	521.073,08
1468+0,000	0,62	8,79	0,22	7,53	138.834,50	521.080,62
1469+0,000	0,54	11,62	0,58	8,05	138.846,12	521.088,66
1470+0,000	0,52	10,62	0,39	9,72	138.856,74	521.098,38
1471+0,000	0,27	7,97	0,66	10,54	138.864,70	521.108,92
1472+0,000	0,98	12,50	0,86	15,28	138.877,20	521.124,19
1473+0,000	1,30	22,76	0,00	8,63	138.899,95	521.132,82
1474+0,000	0,93	22,26	0,01	0,13	138.922,21	521.132,95
1475+0,000	0,98	19,01	0,00	0,13	138.941,23	521.133,08
1476+0,000	0,29	12,64	0,57	5,65	138.953,87	521.138,73
1477+0,000	0,01	3,00	1,58	21,48	138.956,87	521.160,22
1478+0,000	0,00	0,12	2,98	45,67	138.956,98	521.205,89
1479+0,000	0,00	0,00	5,83	88,08	138.956,98	521.293,97
1480+0,000	0,00	0,00	9,50	153,29	138.956,98	521.447,26
1481+0,000	0,00	0,00	11,43	209,31	138.956,98	521.656,57
1482+0,000	0,00	0,00	15,14	265,67	138.956,98	521.922,24
1483+0,000	0,00	0,00	17,13	322,67	138.956,98	522.244,91
1484+0,000	0,00	0,00	16,97	340,96	138.956,98	522.585,86
1485+0,000	0,00	0,00	16,56	335,32	138.956,98	522.921,18
1486+0,000	0,00	0,00	11,21	277,76	138.956,98	523.198,94
1487+0,000	0,00	0,00	7,44	186,49	138.956,98	523.385,43
1488+0,000	0,00	0,00	5,96	133,96	138.956,98	523.519,39
1489+0,000	0,00	0,00	6,58	125,41	138.956,98	523.644,80
1490+0,000	0,00	0,00	7,35	139,27	138.956,98	523.784,07
1491+0,000	0,00	0,00	9,60	169,44	138.956,98	523.953,51
1492+0,000	0,00	0,00	11,56	211,54	138.956,98	524.165,04
1493+0,000	0,00	0,00	14,05	256,03	138.956,98	524.421,08
1494+0,000	0,00	0,00	12,74	267,87	138.956,98	524.688,95
1495+0,000	0,00	0,00	11,63	243,68	138.956,98	524.932,63
1496+0,000	0,00	0,00	11,31	229,40	138.956,98	525.162,02
1497+0,000	0,00	0,00	10,62	219,34	138.956,98	525.381,36
1498+0,000	0,00	0,00	10,52	211,39	138.956,98	525.592,75
1499+0,000	0,00	0,00	10,91	214,24	138.956,98	525.807,00
1500+0,000	0,00	0,00	9,93	208,37	138.956,98	526.015,36
1501+0,000	0,00	0,00	10,36	202,86	138.956,98	526.218,22
1502+0,000	0,00	0,00	9,80	201,61	138.956,98	526.419,83
1503+0,000	0,00	0,00	9,34	191,41	138.956,98	526.611,24
1504+0,000	0,00	0,00	9,24	185,80	138.956,98	526.797,03
1505+0,000	0,00	0,00	9,04	182,85	138.956,98	526.979,88
1506+0,000	0,00	0,00	9,37	184,16	138.956,98	527.164,04
1507+0,000	0,00	0,00	9,19	185,67	138.956,98	527.349,71
1508+0,000	0,00	0,00	11,02	202,18	138.956,98	527.551,89
1509+0,000	0,00	0,00	11,44	224,59	138.956,98	527.776,48
1510+0,000	0,00	0,00	9,87	213,02	138.956,98	527.989,50
1511+0,000	0,00	0,00	11,08	209,44	138.956,98	528.198,94
1512+0,000	0,00	0,00	10,74	218,21	138.956,98	528.417,15
1513+0,000	0,00	0,00	12,50	232,46	138.956,98	528.649,61
1514+0,000	0,00	0,00	11,46	239,67	138.956,98	528.889,28
1515+0,000	0,00	0,00	11,82	232,87	138.956,98	529.122,15
1516+0,000	0,00	0,00	11,61	234,28	138.956,98	529.356,44
1517+0,000	0,00	0,00	10,94	225,44	138.956,98	529.581,87
1518+0,000	0,00	0,00	11,42	223,58	138.956,98	529.805,46
1519+0,000	0,00	0,00	10,06	214,76	138.956,98	530.020,22

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
1520+0,000	0,00	0,00	11,30	213,53	138.956,98	530.233,75
1521+0,000	0,00	0,00	10,48	217,74	138.956,98	530.451,49
1522+0,000	0,00	0,00	12,40	228,73	138.956,98	530.680,22
1523+0,000	0,00	0,00	13,05	254,42	138.956,98	530.934,64
1524+0,000	0,00	0,00	12,99	260,38	138.956,98	531.195,02
1525+0,000	0,00	0,00	14,00	269,91	138.956,98	531.464,93
1526+0,000	0,00	0,00	12,87	268,68	138.956,98	531.733,61
1527+0,000	0,00	0,00	12,29	251,59	138.956,98	531.985,19
1528+0,000	0,00	0,00	14,61	268,96	138.956,98	532.254,15
1529+0,000	0,00	0,00	15,64	302,43	138.956,98	532.556,58
1530+0,000	0,00	0,00	14,63	302,73	138.956,98	532.859,31
1531+0,000	0,00	0,00	14,87	295,00	138.956,98	533.154,31
1532+0,000	0,00	0,00	14,43	292,91	138.956,98	533.447,22
1533+0,000	0,00	0,00	15,15	295,81	138.956,98	533.743,03
1534+0,000	0,00	0,00	15,49	306,49	138.956,98	534.049,52
1535+0,000	0,00	0,00	14,57	300,61	138.956,98	534.350,13
1536+0,000	0,00	0,00	15,52	300,92	138.956,98	534.651,05
1537+0,000	0,00	0,00	13,35	288,72	138.956,98	534.939,77
1538+0,000	0,00	0,00	11,91	252,53	138.956,98	535.192,30
1539+0,000	0,00	0,00	10,81	227,17	138.956,98	535.419,47
1540+0,000	0,00	0,00	11,76	225,74	138.956,98	535.645,21
1541+0,000	0,00	0,00	12,42	241,79	138.956,98	535.887,01
1542+0,000	0,00	0,00	14,06	264,74	138.956,98	536.151,74
1543+0,000	0,00	0,00	15,80	298,57	138.956,98	536.450,31
1544+0,000	0,00	0,00	15,97	317,67	138.956,98	536.767,98
1545+0,000	0,00	0,00	15,39	313,55	138.956,98	537.081,53
1546+0,000	0,00	0,00	16,20	315,92	138.956,98	537.397,45
1547+0,000	0,00	0,00	14,98	311,83	138.956,98	537.709,28
1548+0,000	0,00	0,00	14,42	293,96	138.956,98	538.003,24
1549+0,000	0,00	0,00	15,12	295,39	138.956,98	538.298,63
1550+0,000	0,00	0,00	14,64	297,57	138.956,98	538.596,20
1551+0,000	0,00	0,00	13,90	285,39	138.956,98	538.881,59
1552+0,000	0,00	0,00	12,46	263,58	138.956,98	539.145,17
1553+0,000	0,00	0,00	11,02	234,72	138.956,98	539.379,89
1554+0,000	0,00	0,00	11,59	226,10	138.956,98	539.605,99
1555+0,000	0,00	0,00	11,66	232,50	138.956,98	539.838,49
1556+0,000	0,00	0,00	11,25	229,10	138.956,98	540.067,59
1557+0,000	0,00	0,00	9,67	209,26	138.956,98	540.276,85
1558+0,000	0,00	0,00	10,39	200,67	138.956,98	540.477,52
1559+0,000	0,00	0,00	9,40	197,94	138.956,98	540.675,46
1560+0,000	0,00	0,00	8,15	175,50	138.956,98	540.850,96
1561+0,000	0,00	0,00	6,80	149,46	138.956,98	541.000,42
1562+0,000	0,00	0,00	4,93	117,22	138.956,98	541.117,64
1563+0,000	0,05	0,55	2,57	74,92	138.957,53	541.192,56
1564+0,000	0,35	4,06	0,75	33,15	138.961,60	541.225,70
1565+0,000	3,42	37,74	0,00	7,48	138.999,34	541.233,19
1566+0,000	8,71	121,33	0,00	0,00	139.120,67	541.233,19
1567+0,000	14,33	230,37	0,00	0,00	139.351,04	541.233,19
1568+0,000	20,96	352,88	0,00	0,00	139.703,92	541.233,19
1569+0,000	23,44	444,02	0,00	0,00	140.147,93	541.233,19
1570+0,000	29,33	527,71	0,00	0,00	140.675,64	541.233,19
1571+0,000	29,64	589,67	0,00	0,00	141.265,32	541.233,19
1572+0,000	27,49	571,27	0,00	0,00	141.836,59	541.233,19
1573+0,000	22,07	495,62	0,00	0,00	142.332,21	541.233,19
1574+0,000	18,82	408,91	0,00	0,00	142.741,11	541.233,19
1575+0,000	9,85	286,72	0,00	0,00	143.027,83	541.233,19
1576+0,000	0,37	102,27	0,85	8,51	143.130,10	541.241,69
1577+0,000	0,00	3,74	11,94	127,94	143.133,84	541.369,63
1578+0,000	0,00	0,00	22,89	348,30	143.133,84	541.717,93
1579+0,000	0,00	0,00	31,36	542,44	143.133,84	542.260,38
1580+0,000	0,00	0,00	37,69	690,53	143.133,84	542.950,90
1581+0,000	0,00	0,00	45,09	827,82	143.133,84	543.778,72
1582+0,000	0,00	0,00	48,80	938,90	143.133,84	544.717,62

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1583+0,000	0,00	0,00	53,55	1.023,51	143.133,84	545.741,13
1584+0,000	0,00	0,00	53,58	1.071,27	143.133,84	546.812,40
1585+0,000	0,00	0,00	52,50	1.060,74	143.133,84	547.873,14
1586+0,000	0,00	0,00	52,71	1.052,10	143.133,84	548.925,24
1587+0,000	0,00	0,00	49,27	1.019,82	143.133,84	549.945,06
1588+0,000	0,00	0,00	45,04	943,13	143.133,84	550.888,19
1589+0,000	0,00	0,00	39,50	845,44	143.133,84	551.733,62
1590+0,000	0,00	0,00	36,57	760,73	143.133,84	552.494,35
1591+0,000	0,00	0,00	28,99	655,62	143.133,84	553.149,97
1592+0,000	0,00	0,00	21,49	504,83	143.133,84	553.654,80
1593+0,000	0,00	0,00	13,14	346,34	143.133,84	554.001,14
1594+0,000	0,35	3,50	4,11	172,45	143.137,34	554.173,59
1595+0,000	3,86	42,09	0,00	41,06	143.179,43	554.214,65
1596+0,000	11,68	155,36	0,00	0,00	143.334,79	554.214,65
1597+0,000	18,89	305,71	0,00	0,00	143.640,50	554.214,65
1598+0,000	26,24	451,34	0,00	0,00	144.091,85	554.214,65
1599+0,000	29,74	559,80	0,00	0,00	144.651,65	554.214,65
1600+0,000	30,78	605,21	0,00	0,00	145.256,86	554.214,65
1601+0,000	29,32	601,00	0,00	0,00	145.857,86	554.214,65
1602+0,000	24,40	537,24	0,00	0,00	146.395,10	554.214,65
1603+0,000	13,79	381,93	0,00	0,00	146.777,03	554.214,65
1604+0,000	2,94	167,29	0,23	2,31	146.944,33	554.216,96
1605+0,000	0,00	29,40	9,52	97,48	146.973,73	554.314,43
1606+0,000	0,00	0,00	22,24	317,59	146.973,73	554.632,02
1607+0,000	0,00	0,00	32,60	548,42	146.973,73	555.180,44
1608+0,000	0,00	0,00	41,73	743,34	146.973,73	555.923,78
1609+0,000	0,00	0,00	47,63	893,67	146.973,73	556.817,45
1610+0,000	0,00	0,00	51,49	991,28	146.973,73	557.808,72
1611+0,000	0,00	0,00	47,95	994,49	146.973,73	558.803,22
1612+0,000	0,00	0,00	44,18	921,39	146.973,73	559.724,61
1613+0,000	0,00	0,00	39,47	836,53	146.973,73	560.561,14
1614+0,000	0,00	0,00	35,49	749,55	146.973,73	561.310,68
1615+0,000	0,00	0,00	27,24	627,22	146.973,73	561.937,90
1616+0,000	0,00	0,00	23,02	502,51	146.973,73	562.440,41
1617+0,000	0,00	0,00	15,83	388,48	146.973,73	562.828,89
1618+0,000	0,00	0,00	13,63	294,63	146.973,73	563.123,52
1619+0,000	0,00	0,00	10,11	237,40	146.973,73	563.360,91
1620+0,000	0,00	0,00	9,40	195,14	146.973,73	563.556,06
1621+0,000	0,00	0,00	8,97	183,74	146.973,73	563.739,79
1622+0,000	0,10	0,99	5,49	144,60	146.974,72	563.884,39
1623+0,000	0,56	6,57	4,37	98,58	146.981,29	563.982,97
1624+0,000	0,37	9,23	6,12	104,82	146.990,52	564.087,79
1625+0,000	0,03	3,91	8,60	147,11	146.994,43	564.234,89
1626+0,000	0,00	0,26	9,54	181,33	146.994,68	564.416,22
1627+0,000	0,00	0,00	11,93	214,70	146.994,68	564.630,92
1628+0,000	0,00	0,00	12,36	242,87	146.994,68	564.873,79
1629+0,000	0,00	0,00	10,02	223,72	146.994,68	565.097,51
1630+0,000	0,00	0,00	12,38	224,01	146.994,68	565.321,51
1631+0,000	0,00	0,00	13,76	261,41	146.994,68	565.582,92
1632+0,000	0,00	0,00	14,35	281,10	146.994,68	565.864,02
1633+0,000	0,00	0,00	13,47	278,27	146.994,68	566.142,29
1634+0,000	0,00	0,00	7,56	210,31	146.994,68	566.352,60
1635+0,000	1,49	14,90	7,36	149,14	147.009,59	566.501,74
1636+0,000	0,00	14,90	8,72	160,76	147.024,49	566.662,50
1637+0,000	0,00	0,00	10,74	194,63	147.024,49	566.857,12
1638+0,000	0,00	0,00	13,81	245,49	147.024,49	567.102,61
1639+0,000	0,00	0,00	14,75	285,53	147.024,49	567.388,14
1640+0,000	0,00	0,00	10,41	251,59	147.024,49	567.639,73
1641+0,000	0,00	0,00	13,67	240,83	147.024,49	567.880,56
1642+0,000	0,00	0,00	10,11	237,84	147.024,49	568.118,40
1643+0,000	0,00	0,00	6,45	165,67	147.024,49	568.284,07
1644+0,000	0,08	0,81	2,21	86,68	147.025,30	568.370,75
1645+0,000	1,66	17,46	0,00	22,14	147.042,77	568.392,90

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1646+0,000	4,36	60,29	0,00	0,00	147.103,06	568.392,90
1647+0,000	4,25	86,15	0,00	0,00	147.189,20	568.392,90
1648+0,000	10,09	143,39	0,00	0,00	147.332,59	568.392,90
1649+0,000	13,04	231,27	0,00	0,00	147.563,86	568.392,90
1650+0,000	11,22	242,55	0,00	0,00	147.806,42	568.392,90
1651+0,000	8,77	199,84	0,00	0,00	148.006,26	568.392,90
1652+0,000	6,71	154,81	0,00	0,00	148.161,07	568.392,90
1653+0,000	3,44	101,48	0,00	0,00	148.262,55	568.392,90
1654+0,000	0,20	36,32	3,64	36,44	148.298,87	568.429,34
1655+0,000	0,00	1,96	5,38	90,29	148.300,83	568.519,63
1656+0,000	0,00	0,00	7,80	131,85	148.300,83	568.651,47
1657+0,000	0,00	0,00	13,06	208,62	148.300,83	568.860,09
1658+0,000	0,00	0,00	16,54	295,96	148.300,83	569.156,05
1659+0,000	0,00	0,00	16,93	334,67	148.300,83	569.490,72
1660+0,000	0,00	0,00	12,36	292,94	148.300,83	569.783,67
1661+0,000	0,00	0,00	13,28	256,47	148.300,83	570.040,14
1662+0,000	0,00	0,00	11,96	252,45	148.300,83	570.292,59
1663+0,000	0,00	0,00	6,33	182,87	148.300,83	570.475,46
1664+0,000	0,07	0,68	2,92	92,49	148.301,51	570.567,95
1665+0,000	0,44	5,07	2,32	52,38	148.306,58	570.620,33
1666+0,000	1,46	18,96	0,02	23,32	148.325,53	570.643,65
1667+0,000	2,81	42,65	0,00	0,16	148.368,18	570.643,81
1668+0,000	3,11	59,18	0,00	0,00	148.427,36	570.643,81
1669+0,000	5,08	81,91	0,00	0,00	148.509,27	570.643,81
1670+0,000	4,01	90,94	0,00	0,00	148.600,22	570.643,81
1671+0,000	3,76	77,69	0,00	0,00	148.677,91	570.643,81
1672+0,000	3,58	73,41	0,00	0,00	148.751,32	570.643,81
1673+0,000	1,55	51,39	0,05	0,47	148.802,71	570.644,29
1674+0,000	0,38	19,37	2,13	21,77	148.822,09	570.666,06
1675+0,000	0,00	3,87	4,54	66,75	148.825,96	570.732,81
1676+0,000	0,00	0,04	9,26	138,09	148.826,01	570.870,90
1677+0,000	0,00	0,00	12,20	214,63	148.826,01	571.085,53
1678+0,000	0,00	0,00	9,44	216,40	148.826,01	571.301,93
1679+0,000	0,00	0,00	23,82	332,57	148.826,01	571.634,50
1680+0,000	0,00	0,00	28,99	528,06	148.826,01	572.162,56
1681+0,000	0,00	0,00	32,41	613,97	148.826,01	572.776,53
1682+0,000	0,00	0,00	38,02	704,23	148.826,01	573.480,76
1683+0,000	0,00	0,00	41,83	798,47	148.826,01	574.279,23
1684+0,000	0,00	0,00	44,77	865,97	148.826,01	575.145,20
1685+0,000	0,00	0,00	50,04	948,06	148.826,01	576.093,25
1686+0,000	0,00	0,00	49,14	991,77	148.826,01	577.085,03
1687+0,000	0,00	0,00	43,00	921,37	148.826,01	578.006,39
1688+0,000	0,00	0,00	45,17	881,72	148.826,01	578.888,12
1689+0,000	0,00	0,00	46,49	916,64	148.826,01	579.804,76
1690+0,000	0,00	0,00	35,00	814,87	148.826,01	580.619,63
1691+0,000	0,00	0,00	30,95	659,43	148.826,01	581.279,05
1692+0,000	0,00	0,00	24,89	558,34	148.826,01	581.837,39
1693+0,000	0,00	0,00	17,69	425,76	148.826,01	582.263,15
1694+0,000	0,00	0,00	13,75	314,44	148.826,01	582.577,58
1695+0,000	0,00	0,00	9,12	228,74	148.826,01	582.806,33
1696+0,000	0,00	0,00	12,31	214,28	148.826,01	583.020,60
1697+0,000	0,00	0,00	9,48	217,92	148.826,01	583.238,53
1698+0,000	0,00	0,00	9,18	186,69	148.826,01	583.425,22
1699+0,000	0,03	0,28	7,43	166,11	148.826,28	583.591,32
1700+0,000	0,09	1,17	4,08	115,08	148.827,46	583.706,40
1701+0,000	0,85	9,39	1,09	51,70	148.836,84	583.758,10
1702+0,000	4,02	48,72	0,48	15,66	148.885,57	583.773,76
1703+0,000	3,46	74,86	0,35	8,30	148.960,43	583.782,07
1704+0,000	3,22	66,84	0,08	4,33	149.027,27	583.786,40
1705+0,000	2,55	57,70	1,10	11,79	149.084,97	583.798,19
1706+0,000	1,12	36,68	1,41	25,10	149.121,65	583.823,28
1707+0,000	0,00	11,20	3,69	51,03	149.132,85	583.874,32
1708+0,000	0,00	0,00	9,45	131,40	149.132,85	584.005,72

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1709+0,000	0,00	0,00	10,70	201,48	149.132,85	584.207,20
1710+0,000	0,00	0,00	13,86	245,63	149.132,85	584.452,83
1711+0,000	0,00	0,00	13,04	269,00	149.132,85	584.721,83
1712+0,000	0,00	0,00	15,13	281,70	149.132,85	585.003,53
1713+0,000	0,00	0,00	13,53	286,64	149.132,85	585.290,18
1714+0,000	0,00	0,00	15,39	289,19	149.132,85	585.579,36
1715+0,000	0,00	0,00	16,87	322,56	149.132,85	585.901,92
1716+0,000	0,00	0,00	17,83	346,99	149.132,85	586.248,91
1717+0,000	0,00	0,00	14,24	320,71	149.132,85	586.569,61
1718+0,000	0,00	0,00	14,44	286,78	149.132,85	586.856,39
1719+0,000	0,00	0,00	12,35	267,86	149.132,85	587.124,25
1720+0,000	0,00	0,00	18,20	305,48	149.132,85	587.429,74
1721+0,000	0,00	0,00	15,64	338,40	149.132,85	587.768,13
1722+0,000	0,00	0,00	19,39	350,27	149.132,85	588.118,40
1723+0,000	0,00	0,00	14,29	336,81	149.132,85	588.455,21
1724+0,000	0,39	3,94	5,31	196,07	149.136,80	588.651,28
1725+0,000	1,37	17,67	0,14	54,50	149.154,47	588.705,78
1726+0,000	15,42	167,94	0,00	1,36	149.322,41	588.707,13
1727+0,000	15,75	311,67	0,00	0,00	149.634,08	588.707,13
1728+0,000	10,57	263,11	0,00	0,00	149.897,19	588.707,13
1729+0,000	3,22	137,87	0,00	0,00	150.035,06	588.707,13
1730+0,000	2,76	59,78	0,00	0,00	150.094,84	588.707,13
1731+0,000	6,94	97,00	0,00	0,00	150.191,85	588.707,13
1732+0,000	2,19	91,38	1,20	12,00	150.283,23	588.719,13
1733+0,000	0,00	21,93	6,31	75,14	150.305,16	588.794,27
1734+0,000	0,00	0,00	9,53	158,40	150.305,16	588.952,67
1735+0,000	0,00	0,00	11,41	209,37	150.305,16	589.162,04
1736+0,000	0,00	0,00	13,83	252,45	150.305,16	589.414,49
1737+0,000	0,00	0,00	12,33	261,65	150.305,16	589.676,14
1738+0,000	0,00	0,00	12,13	244,65	150.305,16	589.920,78
1739+0,000	0,00	0,00	9,90	220,34	150.305,16	590.141,13
1740+0,000	0,00	0,00	9,85	197,49	150.305,16	590.338,62
1741+0,000	0,00	0,00	7,72	175,73	150.305,16	590.514,35
1742+0,000	1,63	16,33	3,66	113,83	150.321,49	590.628,18
1743+0,000	4,22	58,51	1,66	53,17	150.379,99	590.681,35
1744+0,000	1,20	54,17	1,46	31,14	150.434,16	590.712,49
1745+0,000	0,03	12,25	2,94	43,93	150.446,41	590.756,42
1746+0,000	0,00	0,26	3,57	65,04	150.446,67	590.821,47
1747+0,000	0,12	1,19	2,69	62,53	150.447,87	590.884,00
1748+0,000	0,00	1,24	4,06	67,49	150.449,10	590.951,49
1749+0,000	0,12	1,20	2,71	67,76	150.450,30	591.019,25
1750+0,000	0,31	4,27	1,82	45,38	150.454,57	591.064,64
1751+0,000	0,57	8,77	1,41	32,33	150.463,35	591.096,97
1752+0,000	0,81	13,72	1,58	29,84	150.477,07	591.126,81
1753+0,000	1,16	19,63	0,77	23,45	150.496,70	591.150,27
1754+0,000	1,36	25,14	0,49	12,58	150.521,84	591.162,85
1755+0,000	1,91	32,68	0,05	5,37	150.554,52	591.168,22
1756+0,000	2,87	47,84	0,24	2,89	150.602,36	591.171,11
1757+0,000	2,87	57,39	1,02	12,61	150.659,76	591.183,72
1758+0,000	1,63	44,91	0,25	12,66	150.704,67	591.196,38
1759+0,000	1,33	29,54	0,63	8,71	150.734,20	591.205,10
1760+0,000	3,50	48,28	0,86	14,88	150.782,48	591.219,97
1761+0,000	4,29	77,86	0,08	9,42	150.860,33	591.229,40
1762+0,000	1,84	61,27	0,00	0,80	150.921,60	591.230,19
1763+0,000	0,26	20,96	1,34	13,36	150.942,56	591.243,55
1764+0,000	0,19	4,46	1,49	28,27	150.947,02	591.271,82
1765+0,000	0,15	3,41	2,84	43,30	150.950,44	591.315,12
1766+0,000	0,12	2,69	1,58	44,21	150.953,13	591.359,34
1767+0,000	0,10	2,18	2,84	44,20	150.955,31	591.403,53
1768+0,000	0,20	3,02	2,68	55,22	150.958,33	591.458,75
1769+0,000	0,28	4,78	1,64	43,20	150.963,11	591.501,95
1770+0,000	0,03	3,10	3,45	50,89	150.966,22	591.552,84
1771+0,000	0,03	0,60	2,26	57,14	150.966,82	591.609,98

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1772+0,000	0,86	8,87	3,37	56,34	150.975,69	591.666,32
1773+0,000	0,00	8,62	4,25	76,24	150.984,31	591.742,56
1774+0,000	0,00	0,00	4,56	88,05	150.984,31	591.830,61
1775+0,000	0,00	0,00	6,43	109,82	150.984,31	591.940,44
1776+0,000	0,00	0,00	7,01	134,35	150.984,31	592.074,79
1777+0,000	0,00	0,00	8,74	157,43	150.984,31	592.232,22
1778+0,000	0,00	0,00	9,02	177,57	150.984,31	592.409,79
1779+0,000	0,00	0,00	8,54	175,63	150.984,31	592.585,42
1780+0,000	0,00	0,00	9,72	182,57	150.984,31	592.767,99
1781+0,000	0,00	0,00	8,83	185,41	150.984,31	592.953,41
1782+0,000	0,00	0,00	6,40	152,22	150.984,31	593.105,63
1783+0,000	0,00	0,00	6,87	132,67	150.984,31	593.238,30
1784+0,000	0,00	0,00	5,89	127,64	150.984,31	593.365,95
1785+0,000	1,14	11,39	3,08	89,72	150.995,70	593.455,67
1786+0,000	0,00	11,43	3,53	66,11	151.007,14	593.521,78
1787+0,000	0,00	0,04	3,51	70,47	151.007,18	593.592,25
1788+0,000	0,00	0,00	4,04	75,50	151.007,18	593.667,75
1789+0,000	0,00	0,00	4,63	86,61	151.007,18	593.754,36
1790+0,000	0,00	0,00	5,67	102,98	151.007,18	593.857,34
1791+0,000	0,00	0,00	5,39	110,59	151.007,18	593.967,93
1792+0,000	0,00	0,00	4,36	97,42	151.007,18	594.065,35
1793+0,000	0,00	0,00	5,15	95,03	151.007,18	594.160,38
1794+0,000	0,00	0,00	5,50	106,43	151.007,18	594.266,81
1795+0,000	0,00	0,00	5,30	107,93	151.007,18	594.374,73
1796+0,000	0,00	0,00	7,14	124,48	151.007,18	594.499,22
1797+0,000	0,00	0,00	8,92	161,00	151.007,18	594.660,22
1798+0,000	0,00	0,00	8,34	173,06	151.007,18	594.833,28
1799+0,000	0,00	0,00	8,48	168,61	151.007,18	595.001,89
1800+0,000	0,01	0,06	8,35	168,60	151.007,24	595.170,49
1801+0,000	0,00	0,06	8,88	172,50	151.007,30	595.342,99
1802+0,000	0,00	0,00	10,46	193,57	151.007,30	595.536,56
1803+0,000	0,00	0,00	11,02	214,91	151.007,30	595.751,47
1804+0,000	0,00	0,00	11,50	225,36	151.007,30	595.976,82
1805+0,000	0,00	0,00	11,69	232,06	151.007,30	596.208,88
1806+0,000	0,00	0,00	11,75	234,51	151.007,30	596.443,40
1807+0,000	0,00	0,00	11,76	235,20	151.007,30	596.678,60
1808+0,000	0,00	0,00	13,21	249,80	151.007,30	596.928,40
1809+0,000	0,00	0,00	12,03	252,68	151.007,30	597.181,07
1810+0,000	0,00	0,00	9,89	219,51	151.007,30	597.400,58
1811+0,000	0,00	0,00	10,23	201,39	151.007,30	597.601,97
1812+0,000	0,01	0,08	9,74	199,75	151.007,38	597.801,72
1813+0,000	0,01	0,15	8,42	181,53	151.007,53	597.983,25
1814+0,000	0,00	0,07	8,87	172,72	151.007,60	598.155,97
1815+0,000	0,00	0,00	7,75	166,19	151.007,60	598.322,15
1816+0,000	0,00	0,00	7,06	148,12	151.007,60	598.470,28
1817+0,000	0,00	0,00	7,71	147,72	151.007,60	598.618,00
1818+0,000	0,00	0,00	6,84	145,51	151.007,60	598.763,51
1819+0,000	0,00	0,00	6,41	132,49	151.007,60	598.896,00
1820+0,000	0,00	0,00	7,06	134,74	151.007,60	599.030,74
1821+0,000	0,00	0,00	4,33	113,91	151.007,60	599.144,64
1822+0,000	0,00	0,03	5,73	100,58	151.007,64	599.245,22
1823+0,000	0,04	0,45	5,53	112,57	151.008,09	599.357,79
1824+0,000	0,18	2,19	3,48	90,12	151.010,28	599.447,90
1825+0,000	0,26	4,33	4,12	76,05	151.014,61	599.523,96
1826+0,000	0,25	5,06	3,80	79,25	151.019,67	599.603,21
1827+0,000	0,28	5,32	2,80	66,06	151.024,99	599.669,27
1828+0,000	0,17	4,55	3,37	61,68	151.029,54	599.730,95
1829+0,000	0,13	3,02	4,20	75,68	151.032,56	599.806,63
1830+0,000	0,00	1,33	5,03	92,27	151.033,89	599.898,89
1831+0,000	0,00	0,03	5,93	109,53	151.033,92	600.008,42
1832+0,000	0,00	0,00	7,31	132,40	151.033,92	600.140,82
1833+0,000	0,00	0,00	8,14	154,49	151.033,92	600.295,31
1834+0,000	0,00	0,00	8,47	166,07	151.033,92	600.461,38

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1835+0,000	0,00	0,00	7,40	158,76	151.033,92	600.620,14
1836+0,000	0,00	0,00	9,65	170,58	151.033,92	600.790,71
1837+0,000	0,00	0,00	9,40	190,52	151.033,92	600.981,24
1838+0,000	0,00	0,00	11,54	209,39	151.033,92	601.190,63
1839+0,000	0,00	0,00	11,46	230,03	151.033,92	601.420,66
1840+0,000	0,00	0,00	12,38	238,48	151.033,92	601.659,14
1841+0,000	0,00	0,00	11,78	241,63	151.033,92	601.900,77
1842+0,000	0,00	0,00	10,48	222,58	151.033,92	602.123,35
1843+0,000	0,00	0,00	11,24	217,25	151.033,92	602.340,60
1844+0,000	0,00	0,00	11,50	227,41	151.033,92	602.568,01
1845+0,000	0,00	0,00	11,66	231,58	151.033,92	602.799,58
1846+0,000	0,00	0,00	9,45	211,15	151.033,92	603.010,73
1847+0,000	0,00	0,00	11,60	210,58	151.033,92	603.221,31
1848+0,000	0,00	0,00	9,45	210,53	151.033,92	603.431,84
1849+0,000	0,00	0,00	12,62	220,73	151.033,92	603.652,57
1850+0,000	0,00	0,00	11,70	243,20	151.033,92	603.895,77
1851+0,000	0,00	0,00	10,44	221,34	151.033,92	604.117,11
1852+0,000	0,00	0,00	14,11	245,48	151.033,92	604.362,59
1853+0,000	0,00	0,00	12,11	262,18	151.033,92	604.624,76
1854+0,000	0,00	0,00	14,60	267,08	151.033,92	604.891,84
1855+0,000	0,00	0,00	13,51	281,12	151.033,92	605.172,96
1856+0,000	0,00	0,00	11,47	249,85	151.033,92	605.422,82
1857+0,000	0,03	0,28	10,76	222,37	151.034,20	605.645,19
1858+0,000	0,00	0,28	12,98	237,50	151.034,47	605.882,68
1859+0,000	0,00	0,00	12,66	256,48	151.034,47	606.139,16
1860+0,000	0,00	0,00	10,30	229,61	151.034,47	606.368,78
1861+0,000	0,00	0,00	12,22	225,22	151.034,47	606.594,00
1862+0,000	0,00	0,00	10,42	226,41	151.034,47	606.820,41
1863+0,000	0,87	8,67	6,26	166,73	151.043,14	606.987,14
1864+0,000	0,23	10,94	6,93	131,87	151.054,08	607.119,01
1865+0,000	0,27	4,98	4,92	118,51	151.059,06	607.237,52
1866+0,000	0,43	7,02	4,46	93,82	151.066,08	607.331,34
1867+0,000	5,39	58,18	0,77	52,34	151.124,26	607.383,68
1868+0,000	1,71	70,91	1,78	25,52	151.195,17	607.409,20
1869+0,000	2,47	41,79	1,10	28,79	151.236,96	607.437,99
1870+0,000	1,93	44,08	5,87	69,71	151.281,03	607.507,70
1871+0,000	0,02	19,38	12,32	182,53	151.300,42	607.690,23
1872+0,000	0,00	0,18	17,92	303,11	151.300,60	607.993,34
1873+0,000	0,01	0,08	14,19	321,99	151.300,68	608.315,33
1874+0,000	0,00	0,07	28,83	431,10	151.300,76	608.746,42
1875+0,000	0,00	0,00	31,60	605,25	151.300,76	609.351,67
1876+0,000	0,00	0,00	39,90	716,18	151.300,76	610.067,85
1877+0,000	0,00	0,00	54,88	949,00	151.300,76	611.016,85
1878+0,000	0,00	0,00	68,71	1.236,67	151.300,76	612.253,52
1879+0,000	0,00	0,00	70,79	1.394,98	151.300,76	613.648,50
1880+0,000	0,00	0,00	69,43	1.402,21	151.300,76	615.050,71
1881+0,000	0,00	0,00	63,76	1.331,86	151.300,76	616.382,57
1882+0,000	0,00	0,00	51,73	1.154,87	151.300,76	617.537,44
1883+0,000	0,00	0,00	43,67	954,03	151.300,76	618.491,47
1884+0,000	0,00	0,00	30,66	743,28	151.300,76	619.234,75
1885+0,000	0,00	0,00	22,57	532,22	151.300,76	619.766,97
1886+0,000	0,00	0,00	16,01	385,79	151.300,76	620.152,76
1887+0,000	0,00	0,00	11,00	270,11	151.300,76	620.422,87
1888+0,000	0,03	0,30	4,98	159,78	151.301,06	620.582,65
1889+0,000	0,97	10,05	1,55	65,30	151.311,11	620.647,95
1890+0,000	5,84	68,12	0,00	15,50	151.379,23	620.663,45
1891+0,000	7,50	133,39	0,00	0,00	151.512,62	620.663,45
1892+0,000	11,11	186,09	0,00	0,00	151.698,71	620.663,45
1893+0,000	6,19	172,94	0,00	0,00	151.871,65	620.663,45
1894+0,000	5,69	118,79	0,00	0,00	151.990,44	620.663,45
1895+0,000	0,40	60,91	5,94	59,41	152.051,35	620.722,86
1896+0,000	0,00	4,00	12,13	180,67	152.055,35	620.903,53
1897+0,000	0,00	0,00	20,70	328,30	152.055,35	621.231,83

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1898+0,000	0,00	0,00	31,96	526,67	152.055,35	621.758,50
1899+0,000	0,00	0,00	38,99	709,55	152.055,35	622.468,05
1900+0,000	0,00	0,00	36,14	751,31	152.055,35	623.219,36
1901+0,000	0,00	0,00	39,85	759,89	152.055,35	623.979,25
1902+0,000	0,00	0,00	36,48	763,31	152.055,35	624.742,56
1903+0,000	0,00	0,00	37,48	739,63	152.055,35	625.482,19
1904+0,000	0,00	0,00	28,57	660,48	152.055,35	626.142,68
1905+0,000	0,00	0,00	23,70	522,70	152.055,35	626.665,37
1906+0,000	0,00	0,00	13,15	368,53	152.055,35	627.033,90
1907+0,000	0,00	0,00	10,89	240,42	152.055,35	627.274,32
1908+0,000	0,04	0,41	5,40	162,90	152.055,76	627.437,22
1909+0,000	0,18	2,23	6,58	119,77	152.057,99	627.556,98
1910+0,000	0,00	1,82	6,93	135,13	152.059,81	627.692,12
1911+0,000	0,00	0,00	9,00	159,37	152.059,81	627.851,49
1912+0,000	0,03	0,35	10,98	199,86	152.060,15	628.051,35
1913+0,000	0,00	0,35	18,62	296,05	152.060,50	628.347,40
1914+0,000	0,00	0,00	20,21	388,34	152.060,50	628.735,74
1915+0,000	0,00	0,00	21,08	412,87	152.060,50	629.148,61
1916+0,000	0,00	0,00	30,13	512,06	152.060,50	629.660,67
1917+0,000	0,00	0,00	33,27	633,97	152.060,50	630.294,64
1918+0,000	0,00	0,00	40,37	736,39	152.060,50	631.031,03
1919+0,000	0,00	0,00	39,79	801,58	152.060,50	631.832,61
1920+0,000	0,00	0,00	40,97	807,62	152.060,50	632.640,24
1921+0,000	0,00	0,00	44,81	857,87	152.060,50	633.498,11
1922+0,000	0,00	0,00	46,75	915,59	152.060,50	634.413,70
1923+0,000	0,00	0,00	46,52	932,62	152.060,50	635.346,32
1924+0,000	0,00	0,00	45,13	916,49	152.060,50	636.262,81
1925+0,000	0,00	0,00	44,78	899,15	152.060,50	637.161,95
1926+0,000	0,00	0,00	41,75	865,32	152.060,50	638.027,27
1927+0,000	0,00	0,00	37,26	790,11	152.060,50	638.817,39
1928+0,000	0,00	0,00	34,53	717,90	152.060,50	639.535,29
1929+0,000	0,00	0,00	29,33	638,59	152.060,50	640.173,87
1930+0,000	0,00	0,00	26,83	561,57	152.060,50	640.735,45
1931+0,000	0,00	0,00	21,05	478,75	152.060,50	641.214,20
1932+0,000	0,00	0,00	19,23	402,80	152.060,50	641.617,00
1933+0,000	1,50	15,01	11,06	302,93	152.075,51	641.919,93
1934+0,000	0,06	15,57	8,98	200,39	152.091,08	642.120,33
1935+0,000	0,76	8,16	6,83	158,12	152.099,25	642.278,44
1936+0,000	0,87	16,33	6,67	135,04	152.115,58	642.413,48
1937+0,000	0,64	15,11	5,33	120,03	152.130,69	642.533,51
1938+0,000	0,56	11,99	4,97	103,02	152.142,68	642.636,53
1939+0,000	1,07	16,30	3,47	84,41	152.158,98	642.720,94
1940+0,000	3,66	47,28	1,52	49,90	152.206,26	642.770,84
1941+0,000	3,23	68,91	1,40	29,22	152.275,17	642.800,07
1942+0,000	2,66	58,92	1,36	27,67	152.334,08	642.827,74
1943+0,000	0,86	35,16	1,69	30,51	152.369,24	642.858,25
1944+0,000	2,44	32,98	1,53	32,19	152.402,22	642.890,44
1945+0,000	0,14	25,79	1,56	30,89	152.428,02	642.921,33
1946+0,000	0,38	5,15	2,37	39,36	152.433,16	642.960,69
1947+0,000	1,08	14,51	1,04	34,22	152.447,68	642.994,91
1948+0,000	1,01	20,71	2,86	39,18	152.468,39	643.034,09
1949+0,000	1,54	25,34	2,86	57,47	152.493,73	643.091,56
1950+0,000	1,74	32,65	2,49	53,85	152.526,38	643.145,41
1951+0,000	1,03	27,56	1,35	38,68	152.553,94	643.184,10
1952+0,000	0,58	16,07	1,20	25,65	152.570,01	643.209,74
1953+0,000	0,58	11,58	1,11	23,23	152.581,58	643.232,98
1954+0,000	0,36	9,30	0,61	17,31	152.590,88	643.250,29
1955+0,000	1,41	17,61	0,01	6,26	152.608,50	643.256,55
1956+0,000	0,63	20,31	1,65	16,65	152.628,81	643.273,20
1957+0,000	0,35	9,73	1,60	32,68	152.638,53	643.305,89
1958+0,000	0,70	10,43	1,50	31,20	152.648,96	643.337,09
1959+0,000	0,34	10,32	1,66	31,79	152.659,28	643.368,88
1960+0,000	0,09	4,32	2,72	44,02	152.663,60	643.412,91

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
1961+0,000	0,06	1,54	3,69	64,33	152.665,13	643.477,24
1962+0,000	0,00	0,61	7,32	110,51	152.665,75	643.587,75
1963+0,000	0,00	0,00	8,38	157,62	152.665,75	643.745,37
1964+0,000	0,00	0,00	7,87	163,06	152.665,75	643.908,43
1965+0,000	0,00	0,00	11,57	194,81	152.665,75	644.103,24
1966+0,000	0,00	0,00	11,25	228,20	152.665,75	644.331,44
1967+0,000	0,00	0,00	12,75	240,00	152.665,75	644.571,44
1968+0,000	0,00	0,00	13,34	260,97	152.665,75	644.832,40
1969+0,000	0,00	0,00	14,09	274,30	152.665,75	645.106,71
1970+0,000	0,00	0,00	14,12	282,06	152.665,75	645.388,77
1971+0,000	0,00	0,00	14,18	282,96	152.665,75	645.671,73
1972+0,000	0,00	0,00	14,97	291,41	152.665,75	645.963,14
1973+0,000	0,00	0,00	14,88	298,48	152.665,75	646.261,63
1974+0,000	0,00	0,00	14,57	294,50	152.665,75	646.556,13
1975+0,000	0,00	0,00	13,37	279,35	152.665,75	646.835,48
1976+0,000	0,00	0,00	13,07	264,37	152.665,75	647.099,85
1977+0,000	0,00	0,00	11,47	245,43	152.665,75	647.345,27
1978+0,000	0,00	0,00	12,33	238,04	152.665,75	647.583,31
1979+0,000	0,00	0,00	9,72	220,48	152.665,75	647.803,79
1980+0,000	0,00	0,00	9,04	187,58	152.665,75	647.991,38
1981+0,000	0,00	0,00	9,30	183,41	152.665,75	648.174,78
1982+0,000	0,00	0,00	8,64	179,37	152.665,75	648.354,15
1983+0,000	0,00	0,00	10,04	186,77	152.665,75	648.540,92
1984+0,000	0,00	0,00	8,76	188,05	152.665,75	648.728,97
1985+0,000	0,00	0,00	9,00	177,65	152.665,75	648.906,62
1986+0,000	0,00	0,00	9,31	183,11	152.665,75	649.089,73
1987+0,000	0,00	0,00	9,41	187,20	152.665,75	649.276,93
1988+0,000	0,00	0,00	7,59	169,99	152.665,75	649.446,92
1989+0,000	0,00	0,00	9,19	167,77	152.665,75	649.614,69
1990+0,000	0,00	0,00	9,02	182,09	152.665,75	649.796,78
1991+0,000	0,00	0,00	10,46	194,84	152.665,75	649.991,62
1992+0,000	0,00	0,00	11,98	224,37	152.665,75	650.216,00
1993+0,000	0,00	0,00	11,80	237,75	152.665,75	650.453,74
1994+0,000	0,00	0,00	13,82	256,20	152.665,75	650.709,94
1995+0,000	0,00	0,00	13,76	275,83	152.665,75	650.985,77
1996+0,000	0,00	0,00	15,45	292,13	152.665,75	651.277,91
1997+0,000	0,00	0,00	17,15	325,98	152.665,75	651.603,89
1998+0,000	0,00	0,00	16,02	331,63	152.665,75	651.935,52
1999+0,000	0,00	0,00	15,60	316,15	152.665,75	652.251,67
2000+0,000	0,00	0,00	17,70	332,99	152.665,75	652.584,66
2001+0,000	0,00	0,00	17,84	355,37	152.665,75	652.940,03
2002+0,000	0,00	0,00	18,19	360,29	152.665,75	653.300,32
2003+0,000	0,00	0,00	19,48	376,68	152.665,75	653.677,01
2004+0,000	0,00	0,00	19,85	393,31	152.665,75	654.070,31
2005+0,000	0,00	0,00	20,87	407,23	152.665,75	654.477,54
2006+0,000	0,00	0,00	21,76	426,30	152.665,75	654.903,84
2007+0,000	0,00	0,00	20,73	424,90	152.665,75	655.328,75
2008+0,000	0,00	0,00	20,47	411,97	152.665,75	655.740,71
2009+0,000	0,00	0,00	20,60	410,69	152.665,75	656.151,40
2010+0,000	0,00	0,00	20,12	407,22	152.665,75	656.558,62
2011+0,000	0,00	0,00	18,96	390,81	152.665,75	656.949,43
2012+0,000	0,00	0,00	19,71	386,67	152.665,75	657.336,10
2013+0,000	0,00	0,00	18,50	382,09	152.665,75	657.718,19
2014+0,000	0,00	0,00	18,27	367,74	152.665,75	658.085,94
2015+0,000	0,00	0,00	17,29	355,57	152.665,75	658.441,51
2016+0,000	0,00	0,00	16,55	338,35	152.665,75	658.779,86
2017+0,000	0,00	0,00	17,09	336,36	152.665,75	659.116,22
2018+0,000	0,00	0,00	19,10	361,88	152.665,75	659.478,10
2019+0,000	0,00	0,01	23,26	423,60	152.665,76	659.901,69
2020+0,000	0,00	0,01	26,15	494,06	152.665,77	660.395,76
2021+0,000	0,00	0,00	28,40	545,46	152.665,78	660.941,21
2022+0,000	0,00	0,04	30,54	589,38	152.665,82	661.530,60
2023+0,000	0,00	0,04	32,88	634,21	152.665,86	662.164,81

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2024+0,000	0,00	0,01	35,48	683,62	152.665,87	662.848,43
2025+0,000	0,00	0,00	36,69	721,71	152.665,87	663.570,14
2026+0,000	0,00	0,00	37,45	741,44	152.665,87	664.311,57
2027+0,000	0,00	0,00	38,14	755,98	152.665,87	665.067,55
2028+0,000	0,00	0,00	38,23	763,76	152.665,87	665.831,32
2029+0,000	0,00	0,00	38,68	769,11	152.665,87	666.600,42
2030+0,000	0,00	0,00	35,95	746,24	152.665,87	667.346,66
2031+0,000	0,00	0,00	31,48	674,23	152.665,87	668.020,89
2032+0,000	0,00	0,00	28,33	598,05	152.665,87	668.618,95
2033+0,000	0,00	0,00	22,96	512,92	152.665,87	669.131,87
2034+0,000	0,00	0,00	18,81	417,73	152.665,87	669.549,60
2035+0,000	0,00	0,00	16,15	349,58	152.665,87	669.899,18
2036+0,000	0,00	0,00	13,52	296,70	152.665,87	670.195,88
2037+0,000	0,00	0,00	10,50	240,25	152.665,87	670.436,13
2038+0,000	0,00	0,00	9,28	197,82	152.665,87	670.633,95
2039+0,000	0,00	0,00	9,61	188,88	152.665,87	670.822,83
2040+0,000	0,00	0,00	10,27	198,78	152.665,87	671.021,62
2041+0,000	0,00	0,00	9,63	198,96	152.665,87	671.220,58
2042+0,000	0,00	0,00	8,34	179,71	152.665,87	671.400,29
2043+0,000	0,00	0,00	7,10	154,46	152.665,87	671.554,75
2044+0,000	0,00	0,00	7,66	147,63	152.665,87	671.702,37
2045+0,000	0,00	0,00	7,10	147,64	152.665,87	671.850,01
2046+0,000	0,00	0,00	6,67	137,76	152.665,87	671.987,77
2047+0,000	0,00	0,00	8,98	156,52	152.665,87	672.144,29
2048+0,000	0,00	0,00	6,25	152,24	152.665,87	672.296,53
2049+0,000	0,00	0,00	7,46	137,01	152.665,87	672.433,54
2050+0,000	0,00	0,00	7,39	148,50	152.665,87	672.582,04
2051+0,000	0,00	0,00	5,92	133,18	152.665,87	672.715,23
2052+0,000	0,00	0,00	6,13	120,49	152.665,87	672.835,72
2053+0,000	0,00	0,00	5,60	117,25	152.665,87	672.952,97
2054+0,000	0,00	0,00	7,87	134,65	152.665,87	673.087,62
2055+0,000	0,00	0,00	6,33	141,93	152.665,87	673.229,55
2056+0,000	0,00	0,00	6,34	126,69	152.665,87	673.356,23
2057+0,000	0,00	0,00	6,55	128,93	152.665,87	673.485,17
2058+0,000	0,00	0,00	6,67	132,22	152.665,87	673.617,38
2059+0,000	0,00	0,00	6,03	127,04	152.665,87	673.744,42
2060+0,000	0,00	0,00	6,38	124,13	152.665,87	673.868,55
2061+0,000	0,00	0,00	6,21	125,90	152.665,87	673.994,45
2062+0,000	0,00	0,00	5,66	118,68	152.665,87	674.113,13
2063+0,000	0,00	0,00	7,33	129,87	152.665,87	674.242,99
2064+0,000	0,00	0,00	7,49	148,19	152.665,87	674.391,19
2065+0,000	0,00	0,00	11,09	185,84	152.665,87	674.577,03
2066+0,000	0,00	0,00	11,91	230,00	152.665,87	674.807,03
2067+0,000	0,00	0,00	12,57	244,76	152.665,87	675.051,79
2068+0,000	0,00	0,00	13,68	262,51	152.665,87	675.314,30
2069+0,000	0,00	0,00	14,99	286,66	152.665,87	675.600,95
2070+0,000	0,00	0,00	16,59	315,76	152.665,87	675.916,71
2071+0,000	0,00	0,00	15,03	316,19	152.665,87	676.232,90
2072+0,000	0,00	0,00	16,18	312,10	152.665,87	676.545,01
2073+0,000	0,00	0,00	16,76	329,43	152.665,87	676.874,44
2074+0,000	0,00	0,00	17,41	341,73	152.665,87	677.216,18
2075+0,000	0,00	0,00	19,31	367,17	152.665,87	677.583,35
2076+0,000	0,00	0,00	19,71	390,13	152.665,87	677.973,48
2077+0,000	0,00	0,00	21,37	410,73	152.665,87	678.384,20
2078+0,000	0,00	0,00	22,40	437,67	152.665,87	678.821,87
2079+0,000	0,00	0,00	23,18	455,83	152.665,87	679.277,70
2080+0,000	0,00	0,00	24,78	479,60	152.665,87	679.757,30
2081+0,000	0,00	0,00	26,32	510,99	152.665,87	680.268,29
2082+0,000	0,00	0,00	24,96	512,79	152.665,87	680.781,07
2083+0,000	0,00	0,00	23,93	488,89	152.665,87	681.269,96
2084+0,000	0,00	0,00	23,38	473,07	152.665,87	681.743,04
2085+0,000	0,00	0,00	19,89	432,72	152.665,87	682.175,75
2086+0,000	0,00	0,00	17,17	370,63	152.665,87	682.546,38

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2087+0,000	0,00	0,00	13,47	306,43	152.665,87	682.852,81
2088+0,000	0,00	0,00	11,30	247,70	152.665,87	683.100,51
2089+0,000	0,00	0,00	9,40	206,92	152.665,87	683.307,44
2090+0,000	0,00	0,00	12,29	216,90	152.665,87	683.524,33
2091+0,000	0,00	0,00	13,68	259,78	152.665,87	683.784,11
2092+0,000	0,00	0,00	14,25	279,30	152.665,87	684.063,41
2093+0,000	0,00	0,00	15,13	293,78	152.665,87	684.357,19
2094+0,000	0,00	0,00	16,33	314,63	152.665,87	684.671,82
2095+0,000	0,00	0,00	18,36	346,86	152.665,87	685.018,68
2096+0,000	0,00	0,00	18,39	367,43	152.665,87	685.386,10
2097+0,000	0,00	0,00	19,69	380,72	152.665,87	685.766,82
2098+0,000	0,00	0,00	20,38	400,66	152.665,87	686.167,48
2099+0,000	0,00	0,00	20,63	410,08	152.665,87	686.577,56
2100+0,000	0,00	0,00	21,95	425,79	152.665,87	687.003,35
2101+0,000	0,00	0,00	23,92	458,67	152.665,87	687.462,03
2102+0,000	0,00	0,00	24,82	487,39	152.665,87	687.949,42
2103+0,000	0,00	0,00	25,49	503,09	152.665,87	688.452,51
2104+0,000	0,00	0,00	27,16	526,45	152.665,87	688.978,96
2105+0,000	0,00	0,00	27,31	544,66	152.665,87	689.523,62
2106+0,000	0,00	0,00	29,21	565,15	152.665,87	690.088,76
2107+0,000	0,00	0,00	28,35	575,58	152.665,87	690.664,34
2108+0,000	0,00	0,00	29,92	582,67	152.665,87	691.247,01
2109+0,000	0,00	0,00	29,72	596,38	152.665,87	691.843,39
2110+0,000	0,00	0,00	30,48	602,05	152.665,87	692.445,44
2111+0,000	0,00	0,00	29,27	597,58	152.665,87	693.043,02
2112+0,000	0,00	0,00	28,62	578,91	152.665,87	693.621,93
2113+0,000	0,00	0,00	25,72	543,39	152.665,87	694.165,32
2114+0,000	0,00	0,00	24,30	500,18	152.665,87	694.665,50
2115+0,000	0,00	0,00	20,27	445,62	152.665,87	695.111,12
2116+0,000	0,00	0,00	16,76	370,29	152.665,87	695.481,41
2117+0,000	0,00	0,00	14,78	315,45	152.665,87	695.796,86
2118+0,000	0,00	0,00	11,63	264,14	152.665,87	696.061,00
2119+0,000	0,00	0,00	8,44	200,67	152.665,87	696.261,67
2120+0,000	0,00	0,00	6,57	150,10	152.665,87	696.411,77
2121+0,000	0,00	0,00	3,11	96,87	152.665,87	696.508,64
2122+0,000	0,00	0,00	1,79	49,02	152.665,87	696.557,66
2123+0,000	0,31	3,05	0,82	26,10	152.668,92	696.583,76
2124+0,000	0,15	4,52	1,01	18,28	152.673,45	696.602,04
2125+0,000	0,25	3,97	0,44	14,45	152.677,41	696.616,49
2126+0,000	0,00	2,50	2,01	24,46	152.679,91	696.640,95
2127+0,000	0,00	0,00	1,93	39,37	152.679,91	696.680,32
2128+0,000	0,00	0,00	3,89	58,17	152.679,91	696.738,49
2129+0,000	0,00	0,00	4,67	85,54	152.679,91	696.824,03
2130+0,000	0,00	0,00	6,08	107,43	152.679,91	696.931,47
2131+0,000	0,00	0,00	5,56	116,40	152.679,91	697.047,87
2132+0,000	0,00	0,00	7,93	134,92	152.679,91	697.182,79
2133+0,000	0,00	0,00	8,66	165,84	152.679,91	697.348,62
2134+0,000	0,00	0,00	8,33	169,81	152.679,91	697.518,44
2135+0,000	0,00	0,00	8,48	168,07	152.679,91	697.686,51
2136+0,000	0,00	0,00	9,22	177,02	152.679,91	697.863,52
2137+0,000	0,00	0,00	9,84	190,63	152.679,91	698.054,16
2138+0,000	0,00	0,00	9,83	196,68	152.679,91	698.250,83
2139+0,000	0,00	0,00	9,64	194,61	152.679,91	698.445,44
2140+0,000	0,00	0,00	10,44	200,71	152.679,91	698.646,15
2141+0,000	0,00	0,00	9,73	201,67	152.679,91	698.847,83
2142+0,000	0,00	0,00	10,41	201,41	152.679,91	699.049,24
2143+0,000	0,00	0,00	8,39	188,03	152.679,91	699.237,27
2144+0,000	0,00	0,00	8,08	164,74	152.679,91	699.402,01
2145+0,000	0,00	0,00	7,18	152,62	152.679,91	699.554,64
2146+0,000	0,00	0,00	7,58	147,63	152.679,91	699.702,27
2147+0,000	0,01	0,07	5,20	127,82	152.679,98	699.830,09
2148+0,000	0,00	0,07	5,82	110,19	152.680,06	699.940,27
2149+0,000	0,00	0,01	3,77	95,92	152.680,07	700.036,19

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2150+0,000	3,51	35,07	1,99	57,60	152.715,14	700.093,79
2151+0,000	0,20	37,07	3,69	56,75	152.752,21	700.150,54
2152+0,000	0,11	3,12	3,22	69,11	152.755,33	700.219,65
2153+0,000	0,65	7,63	2,22	54,45	152.762,96	700.274,10
2154+0,000	0,00	6,52	3,05	52,69	152.769,47	700.326,79
2155+0,000	0,72	7,20	0,88	39,27	152.776,67	700.366,06
2156+0,000	0,22	9,39	1,33	22,08	152.786,07	700.388,14
2157+0,000	0,34	5,57	0,92	22,46	152.791,63	700.410,60
2158+0,000	0,05	3,87	2,06	29,83	152.795,50	700.440,43
2159+0,000	0,17	2,19	2,71	47,78	152.797,70	700.488,21
2160+0,000	0,07	2,41	3,76	64,75	152.800,10	700.552,96
2161+0,000	0,00	0,70	5,82	95,84	152.800,80	700.648,80
2162+0,000	0,00	0,00	6,09	119,15	152.800,80	700.767,95
2163+0,000	0,00	0,00	6,22	123,16	152.800,80	700.891,11
2164+0,000	0,00	0,00	6,39	126,10	152.800,80	701.017,21
2165+0,000	0,00	0,00	7,30	136,90	152.800,80	701.154,11
2166+0,000	0,00	0,00	7,66	149,66	152.800,80	701.303,76
2167+0,000	0,00	0,00	8,22	158,81	152.800,80	701.462,57
2168+0,000	0,00	0,00	6,44	146,57	152.800,80	701.609,14
2169+0,000	0,00	0,00	7,35	137,87	152.800,80	701.747,01
2170+0,000	0,00	0,00	6,62	139,73	152.800,80	701.886,74
2171+0,000	0,00	0,00	7,74	143,66	152.800,80	702.030,41
2172+0,000	0,00	0,00	5,74	134,86	152.800,80	702.165,27
2173+0,000	0,00	0,00	6,28	120,28	152.800,80	702.285,55
2174+0,000	0,00	0,00	6,79	130,74	152.800,80	702.416,29
2175+0,000	0,00	0,00	7,03	138,23	152.800,80	702.554,52
2176+0,000	0,00	0,00	5,81	128,41	152.800,80	702.682,93
2177+0,000	0,00	0,00	6,04	118,44	152.800,80	702.801,37
2178+0,000	0,00	0,00	6,62	126,55	152.800,80	702.927,92
2179+0,000	0,00	0,00	7,74	143,61	152.800,80	703.071,53
2180+0,000	0,00	0,00	7,18	149,24	152.800,80	703.220,78
2181+0,000	0,00	0,00	5,81	129,96	152.800,80	703.350,73
2182+0,000	0,00	0,00	7,45	132,64	152.800,80	703.483,38
2183+0,000	0,00	0,00	7,59	150,41	152.800,80	703.633,79
2184+0,000	0,00	0,00	8,94	165,32	152.800,80	703.799,10
2185+0,000	0,00	0,00	9,31	182,47	152.800,80	703.981,58
2186+0,000	0,00	0,00	8,07	173,79	152.800,80	704.155,37
2187+0,000	0,00	0,00	7,86	159,32	152.800,80	704.314,69
2188+0,000	0,00	0,00	9,96	178,25	152.800,80	704.492,94
2189+0,000	0,00	0,00	9,17	191,39	152.800,80	704.684,33
2190+0,000	0,00	0,00	9,21	183,82	152.800,80	704.868,14
2191+0,000	0,00	0,00	9,71	189,19	152.800,80	705.057,33
2192+0,000	0,00	0,00	10,46	201,69	152.800,80	705.259,02
2193+0,000	0,00	0,00	9,07	195,30	152.800,80	705.454,32
2194+0,000	0,00	0,00	8,78	178,55	152.800,80	705.632,87
2195+0,000	0,00	0,00	9,10	178,80	152.800,80	705.811,68
2196+0,000	0,00	0,00	8,28	173,83	152.800,80	705.985,51
2197+0,000	0,00	0,00	7,29	155,76	152.800,80	706.141,27
2198+0,000	0,00	0,00	6,77	140,63	152.800,80	706.281,90
2199+0,000	0,00	0,00	7,22	139,88	152.800,80	706.421,78
2200+0,000	0,00	0,00	5,09	123,11	152.800,80	706.544,89
2201+0,000	0,00	0,00	6,02	111,13	152.800,80	706.656,02
2202+0,000	0,00	0,00	6,35	123,68	152.800,80	706.779,70
2203+0,000	0,00	0,00	6,83	131,75	152.800,80	706.911,45
2204+0,000	0,00	0,00	7,62	144,50	152.800,80	707.055,94
2205+0,000	0,00	0,00	6,69	143,17	152.800,80	707.199,11
2206+0,000	0,00	0,00	7,12	138,12	152.800,80	707.337,23
2207+0,000	0,00	0,00	8,26	153,80	152.800,80	707.491,03
2208+0,000	0,00	0,00	9,61	178,72	152.800,80	707.669,75
2209+0,000	0,00	0,00	9,58	191,91	152.800,80	707.861,66
2210+0,000	0,00	0,00	10,04	196,24	152.800,80	708.057,90
2211+0,000	0,00	0,00	10,58	206,22	152.800,80	708.264,12
2212+0,000	0,00	0,00	12,11	226,88	152.800,80	708.491,01

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2213+0,000	0,00	0,00	12,83	249,36	152.800,80	708.740,37
2214+0,000	0,00	0,00	13,22	260,48	152.800,80	709.000,85
2215+0,000	0,00	0,00	14,08	272,98	152.800,80	709.273,83
2216+0,000	0,00	0,00	15,18	292,57	152.800,80	709.566,39
2217+0,000	0,00	0,00	16,58	317,56	152.800,80	709.883,95
2218+0,000	0,00	0,00	17,72	342,99	152.800,80	710.226,95
2219+0,000	0,00	0,00	18,35	360,79	152.800,80	710.587,73
2220+0,000	0,00	0,00	19,48	378,32	152.800,80	710.966,06
2221+0,000	0,00	0,00	21,08	405,57	152.800,80	711.371,62
2222+0,000	0,00	0,00	22,53	436,12	152.800,80	711.807,74
2223+0,000	0,00	0,00	22,39	449,18	152.800,80	712.256,92
2224+0,000	0,00	0,00	24,06	464,42	152.800,80	712.721,34
2225+0,000	0,00	0,00	26,75	508,07	152.800,80	713.229,41
2226+0,000	0,00	0,00	27,75	544,99	152.800,80	713.774,39
2227+0,000	0,00	0,00	28,20	559,49	152.800,80	714.333,88
2228+0,000	0,00	0,00	29,49	576,94	152.800,80	714.910,82
2229+0,000	0,00	0,00	30,69	601,82	152.800,80	715.512,64
2230+0,000	0,00	0,00	30,28	609,67	152.800,80	716.122,31
2231+0,000	0,00	0,00	28,80	590,77	152.800,80	716.713,08
2232+0,000	0,00	0,00	26,51	553,06	152.800,80	717.266,15
2233+0,000	0,00	0,00	23,82	503,30	152.800,80	717.769,45
2234+0,000	0,00	0,00	21,33	451,56	152.800,80	718.221,01
2235+0,000	0,00	0,00	18,38	397,09	152.800,80	718.618,09
2236+0,000	0,00	0,00	15,80	341,73	152.800,80	718.959,82
2237+0,000	0,00	0,00	13,61	294,09	152.800,80	719.253,91
2238+0,000	0,00	0,00	9,87	234,83	152.800,80	719.488,74
2239+0,000	0,00	0,00	8,42	182,90	152.800,80	719.671,64
2240+0,000	0,00	0,00	6,64	150,55	152.800,80	719.822,18
2241+0,000	0,00	0,00	5,52	121,60	152.800,80	719.943,79
2242+0,000	0,00	0,00	5,43	109,53	152.800,80	720.053,32
2243+0,000	0,00	0,00	4,58	100,11	152.800,80	720.153,43
2244+0,000	0,00	0,00	4,67	92,50	152.800,80	720.245,93
2245+0,000	0,00	0,00	4,25	89,19	152.800,80	720.335,12
2246+0,000	0,00	0,00	4,55	87,98	152.800,80	720.423,09
2247+0,000	0,00	0,00	6,16	107,10	152.800,80	720.530,19
2248+0,000	0,00	0,00	7,19	133,52	152.800,80	720.663,71
2249+0,000	0,00	0,00	8,72	159,05	152.800,81	720.822,77
2250+0,000	0,00	0,02	8,31	170,27	152.800,83	720.993,04
2251+0,000	0,00	0,02	10,16	184,69	152.800,85	721.177,73
2252+0,000	0,00	0,00	11,58	217,37	152.800,85	721.395,10
2253+0,000	0,00	0,00	12,48	240,55	152.800,85	721.635,65
2254+0,000	0,00	0,00	13,92	264,01	152.800,85	721.899,66
2255+0,000	0,00	0,00	14,61	285,31	152.800,85	722.184,97
2256+0,000	0,00	0,00	16,29	308,94	152.800,85	722.493,91
2257+0,000	0,00	0,00	17,41	336,94	152.800,85	722.830,85
2258+0,000	0,00	0,00	20,78	381,89	152.800,85	723.212,74
2259+0,000	0,00	0,00	15,87	366,54	152.800,85	723.579,28
2260+0,000	0,00	0,00	21,11	369,83	152.800,85	723.949,11
2261+0,000	0,00	0,00	20,03	411,45	152.800,85	724.360,56
2262+0,000	0,00	0,00	21,43	414,66	152.800,85	724.775,22
2263+0,000	0,00	0,00	22,18	436,12	152.800,85	725.211,33
2264+0,000	0,00	0,00	21,84	440,15	152.800,85	725.651,49
2265+0,000	0,00	0,00	20,99	428,27	152.800,85	726.079,76
2266+0,000	0,00	0,00	19,71	406,96	152.800,85	726.486,72
2267+0,000	0,00	0,00	18,39	380,92	152.800,85	726.867,64
2268+0,000	0,00	0,00	16,28	346,69	152.800,85	727.214,33
2269+0,000	0,00	0,00	14,42	307,02	152.800,85	727.521,35
2270+0,000	0,00	0,00	12,71	271,34	152.800,85	727.792,69
2271+0,000	0,00	0,00	10,56	232,76	152.800,85	728.025,45
2272+0,000	0,00	0,00	7,98	185,38	152.800,85	728.210,82
2273+0,000	0,00	0,00	6,22	141,91	152.800,85	728.352,74
2274+0,000	0,00	0,00	4,77	109,86	152.800,85	728.462,60
2275+0,000	0,00	0,00	3,92	86,92	152.800,85	728.549,52

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2276+0,000	0,00	0,00	3,25	71,71	152.800,85	728.621,23
2277+0,000	0,00	0,00	4,46	77,09	152.800,85	728.698,32
2278+0,000	0,00	0,00	4,52	89,81	152.800,85	728.788,14
2279+0,000	0,00	0,00	5,06	95,86	152.800,85	728.883,99
2280+0,000	0,00	0,00	5,33	103,89	152.800,85	728.987,89
2281+0,000	0,00	0,00	5,80	111,21	152.800,85	729.099,10
2282+0,000	0,00	0,00	5,75	115,44	152.800,85	729.214,54
2283+0,000	0,00	0,00	7,09	128,40	152.800,85	729.342,94
2284+0,000	0,00	0,00	8,83	159,20	152.800,85	729.502,14
2285+0,000	0,00	0,00	9,08	179,11	152.800,85	729.681,25
2286+0,000	0,00	0,00	8,32	174,08	152.800,85	729.855,33
2287+0,000	0,00	0,00	7,78	161,00	152.800,85	730.016,34
2288+0,000	0,00	0,00	9,02	167,95	152.800,85	730.184,29
2289+0,000	0,00	0,00	8,45	174,71	152.800,85	730.358,99
2290+0,000	0,00	0,00	9,19	176,46	152.800,85	730.535,45
2291+0,000	0,00	0,00	9,74	189,37	152.800,85	730.724,82
2292+0,000	0,00	0,00	9,67	194,08	152.800,85	730.918,90
2293+0,000	0,00	0,00	10,98	206,44	152.800,85	731.125,34
2294+0,000	0,00	0,00	12,09	230,70	152.800,85	731.356,03
2295+0,000	0,00	0,00	13,48	255,75	152.800,85	731.611,78
2296+0,000	0,00	0,00	14,91	283,95	152.800,85	731.895,73
2297+0,000	0,00	0,00	15,74	306,46	152.800,85	732.202,19
2298+0,000	0,00	0,00	16,95	326,85	152.800,85	732.529,04
2299+0,000	0,00	0,00	17,55	345,02	152.800,85	732.874,06
2300+0,000	0,00	0,00	17,51	350,63	152.800,85	733.224,69
2301+0,000	0,00	0,00	18,25	357,64	152.800,85	733.582,33
2302+0,000	0,00	0,00	19,08	373,36	152.800,85	733.955,70
2303+0,000	0,00	0,00	20,12	392,06	152.800,85	734.347,75
2304+0,000	0,00	0,00	20,31	404,37	152.800,85	734.752,12
2305+0,000	0,00	0,00	21,25	415,65	152.800,85	735.167,77
2306+0,000	0,00	0,00	21,90	431,54	152.800,85	735.599,32
2307+0,000	0,00	0,00	21,67	436,09	152.800,85	736.035,40
2308+0,000	0,00	0,00	20,65	423,66	152.800,85	736.459,07
2309+0,000	0,00	0,00	19,69	403,82	152.800,85	736.862,89
2310+0,000	0,00	0,03	16,80	365,28	152.800,88	737.228,18
2311+0,000	0,00	0,04	15,13	319,64	152.800,93	737.547,82
2312+0,000	0,00	0,01	13,51	286,71	152.800,94	737.834,53
2313+0,000	0,00	0,00	11,77	253,12	152.800,94	738.087,66
2314+0,000	0,00	0,00	10,72	225,28	152.800,94	738.312,93
2315+0,000	0,00	0,00	8,92	196,81	152.800,94	738.509,75
2316+0,000	0,00	0,00	7,44	163,99	152.800,94	738.673,74
2317+0,000	0,00	0,04	4,89	123,64	152.800,99	738.797,37
2318+0,000	0,01	0,12	2,93	78,46	152.801,10	738.875,84
2319+0,000	0,06	0,63	2,17	51,21	152.801,73	738.927,05
2320+0,000	0,00	0,56	0,97	31,50	152.802,29	738.958,55
2321+0,000	0,04	0,38	1,07	20,40	152.802,66	738.978,95
2322+0,000	0,12	1,61	0,77	18,38	152.804,27	738.997,33
2323+0,000	0,03	1,55	1,14	19,07	152.805,82	739.016,40
2324+0,000	0,00	0,32	2,37	35,08	152.806,15	739.051,48
2325+0,000	0,00	0,00	3,46	58,33	152.806,15	739.109,81
2326+0,000	0,00	0,00	4,16	76,27	152.806,15	739.186,08
2327+0,000	0,00	0,00	5,35	95,12	152.806,15	739.281,20
2328+0,000	0,00	0,00	6,46	118,09	152.806,15	739.399,29
2329+0,000	0,00	0,00	7,62	140,78	152.806,15	739.540,08
2330+0,000	0,00	0,00	8,09	157,09	152.806,15	739.697,17
2331+0,000	0,00	0,00	8,71	168,05	152.806,15	739.865,22
2332+0,000	0,00	0,00	9,63	183,43	152.806,15	740.048,65
2333+0,000	0,00	0,00	10,50	201,31	152.806,15	740.249,96
2334+0,000	0,00	0,00	11,02	215,17	152.806,15	740.465,13
2335+0,000	0,00	0,00	12,28	232,98	152.806,15	740.698,12
2336+0,000	0,00	0,00	14,03	263,12	152.806,15	740.961,24
2337+0,000	0,00	0,00	14,03	280,75	152.806,15	741.241,99
2338+0,000	0,00	0,01	14,91	289,67	152.806,16	741.531,66

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2339+0,000	0,00	0,03	15,83	307,75	152.806,19	741.839,41
2340+0,000	0,00	0,03	16,17	320,39	152.806,22	742.159,80
2341+0,000	0,00	0,01	17,31	335,19	152.806,24	742.495,00
2342+0,000	0,00	0,00	17,99	353,39	152.806,24	742.848,39
2343+0,000	0,00	0,00	16,19	342,12	152.806,24	743.190,50
2344+0,000	0,00	0,00	17,61	338,24	152.806,24	743.528,75
2345+0,000	0,00	0,00	18,25	358,87	152.806,24	743.887,62
2346+0,000	0,00	0,00	19,05	373,34	152.806,24	744.260,96
2347+0,000	0,00	0,00	18,68	377,60	152.806,24	744.638,56
2348+0,000	0,00	0,00	18,94	376,51	152.806,25	745.015,07
2349+0,000	0,00	0,00	19,91	388,89	152.806,25	745.403,96
2350+0,000	0,00	0,00	20,31	402,63	152.806,25	745.806,59
2351+0,000	0,00	0,00	20,32	406,69	152.806,25	746.213,28
2352+0,000	0,00	0,00	19,81	401,68	152.806,25	746.614,96
2353+0,000	0,00	0,00	18,95	388,10	152.806,25	747.003,06
2354+0,000	0,00	0,00	20,29	392,95	152.806,25	747.396,01
2355+0,000	0,00	0,00	20,77	411,09	152.806,25	747.807,10
2356+0,000	0,00	0,00	20,48	412,68	152.806,25	748.219,78
2357+0,000	0,00	0,00	17,76	382,40	152.806,25	748.602,19
2358+0,000	0,00	0,00	16,84	346,09	152.806,25	748.948,27
2359+0,000	0,00	0,00	16,30	331,47	152.806,25	749.279,75
2360+0,000	0,00	0,00	15,60	319,00	152.806,25	749.598,74
2361+0,000	0,00	0,00	14,12	297,21	152.806,25	749.895,95
2362+0,000	0,00	0,00	12,80	269,27	152.806,25	750.165,23
2363+0,000	0,00	0,00	12,09	248,95	152.806,25	750.414,18
2364+0,000	0,00	0,00	12,01	241,02	152.806,25	750.655,20
2365+0,000	0,00	0,00	12,30	243,11	152.806,25	750.898,32
2366+0,000	0,00	0,00	11,81	241,10	152.806,25	751.139,42
2367+0,000	0,00	0,00	11,61	234,20	152.806,25	751.373,62
2368+0,000	0,00	0,00	11,27	228,77	152.806,25	751.602,39
2369+0,000	0,00	0,00	11,21	224,80	152.806,25	751.827,19
2370+0,000	0,00	0,00	11,09	223,08	152.806,25	752.050,27
2371+0,000	0,00	0,00	10,17	212,62	152.806,25	752.262,89
2372+0,000	0,00	0,00	8,98	191,52	152.806,25	752.454,41
2373+0,000	0,00	0,00	9,45	184,32	152.806,25	752.638,73
2374+0,000	0,00	0,00	9,50	189,48	152.806,25	752.828,21
2375+0,000	0,00	0,00	9,09	185,91	152.806,25	753.014,12
2376+0,000	0,00	0,00	9,43	185,16	152.806,25	753.199,28
2377+0,000	0,00	0,00	9,63	190,52	152.806,25	753.389,81
2378+0,000	0,00	0,00	9,31	189,38	152.806,25	753.579,18
2379+0,000	0,00	0,00	9,43	187,38	152.806,25	753.766,56
2380+0,000	0,00	0,00	9,45	188,76	152.806,25	753.955,32
2381+0,000	0,00	0,00	8,35	177,93	152.806,25	754.133,25
2382+0,000	0,00	0,00	7,97	163,15	152.806,25	754.296,40
2383+0,000	0,00	0,00	7,37	153,42	152.806,25	754.449,83
2384+0,000	0,00	0,00	7,36	147,31	152.806,25	754.597,13
2385+0,000	0,00	0,00	6,34	137,00	152.806,25	754.734,13
2386+0,000	0,00	0,00	6,09	124,27	152.806,25	754.858,40
2387+0,000	0,00	0,00	5,66	117,42	152.806,25	754.975,82
2388+0,000	0,00	0,00	5,36	110,17	152.806,25	755.085,99
2389+0,000	0,00	0,00	5,60	109,62	152.806,25	755.195,61
2390+0,000	0,00	0,00	5,69	112,88	152.806,25	755.308,49
2391+0,000	0,00	0,00	5,70	113,88	152.806,25	755.422,37
2392+0,000	0,00	0,00	8,28	139,80	152.806,25	755.562,17
2393+0,000	0,00	0,00	9,52	178,02	152.806,25	755.740,18
2394+0,000	0,00	0,00	11,17	206,94	152.806,25	755.947,13
2395+0,000	0,00	0,00	13,74	249,09	152.806,25	756.196,21
2396+0,000	0,00	0,00	15,43	291,65	152.806,25	756.487,86
2397+0,000	0,00	0,00	16,33	317,61	152.806,25	756.805,47
2398+0,000	0,00	0,00	18,57	348,98	152.806,25	757.154,45
2399+0,000	0,00	0,00	20,81	393,71	152.806,25	757.548,16
2400+0,000	0,00	0,00	21,99	427,97	152.806,25	757.976,13
2401+0,000	0,00	0,00	23,93	459,17	152.806,25	758.435,30

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2402+0,000	0,00	0,00	26,10	500,25	152.806,25	758.935,55
2403+0,000	0,00	0,00	28,42	545,17	152.806,25	759.480,72
2404+0,000	0,00	0,00	29,09	575,06	152.806,25	760.055,78
2405+0,000	0,00	0,00	30,46	595,50	152.806,25	760.651,28
2406+0,000	0,00	0,00	31,03	614,93	152.806,25	761.266,20
2407+0,000	0,00	0,00	31,29	623,18	152.806,25	761.889,39
2408+0,000	0,00	0,00	32,54	638,26	152.806,25	762.527,65
2409+0,000	0,00	0,00	31,74	642,75	152.806,25	763.170,40
2410+0,000	0,00	0,00	30,78	625,16	152.806,25	763.795,55
2411+0,000	0,00	0,00	30,19	609,70	152.806,25	764.405,25
2412+0,000	0,00	0,00	28,82	590,06	152.806,25	764.995,31
2413+0,000	0,00	0,00	27,91	567,26	152.806,25	765.562,57
2414+0,000	0,00	0,00	26,10	540,10	152.806,25	766.102,67
2415+0,000	0,00	0,00	25,08	511,77	152.806,25	766.614,45
2416+0,000	0,00	0,00	22,48	475,54	152.806,25	767.089,99
2417+0,000	0,00	0,00	21,55	440,24	152.806,25	767.530,22
2418+0,000	0,00	0,00	21,18	427,27	152.806,25	767.957,50
2419+0,000	0,00	0,00	19,72	408,97	152.806,25	768.366,47
2420+0,000	0,00	0,00	18,99	387,07	152.806,25	768.753,53
2421+0,000	0,00	0,00	17,16	361,53	152.806,25	769.115,06
2422+0,000	0,00	0,00	16,39	335,51	152.806,25	769.450,57
2423+0,000	0,00	0,00	14,93	313,19	152.806,25	769.763,76
2424+0,000	0,00	0,00	14,50	294,28	152.806,25	770.058,04
2425+0,000	0,00	0,00	12,82	273,20	152.806,25	770.331,24
2426+0,000	0,00	0,00	12,19	250,13	152.806,25	770.581,37
2427+0,000	0,00	0,00	11,34	235,26	152.806,25	770.816,63
2428+0,000	0,00	0,00	10,03	213,61	152.806,25	771.030,24
2429+0,000	0,00	0,00	11,13	211,55	152.806,25	771.241,79
2430+0,000	0,00	0,00	10,09	212,20	152.806,25	771.453,99
2431+0,000	0,00	0,00	9,99	200,84	152.806,25	771.654,83
2432+0,000	0,00	0,00	10,16	201,49	152.806,25	771.856,32
2433+0,000	0,00	0,00	10,05	201,97	152.806,25	772.058,29
2434+0,000	0,00	0,00	9,42	194,62	152.806,25	772.252,92
2435+0,000	0,00	0,01	9,28	186,98	152.806,26	772.439,90
2436+0,000	0,00	0,03	10,41	196,97	152.806,29	772.636,86
2437+0,000	0,00	0,02	11,35	217,88	152.806,31	772.854,74
2438+0,000	0,00	0,00	12,05	234,47	152.806,31	773.089,21
2439+0,000	0,00	0,00	11,77	238,62	152.806,31	773.327,83
2440+0,000	0,00	0,00	12,24	240,42	152.806,31	773.568,25
2441+0,000	0,00	0,00	13,72	259,91	152.806,31	773.828,16
2442+0,000	0,00	0,00	15,47	292,21	152.806,31	774.120,37
2443+0,000	0,00	0,00	16,18	316,76	152.806,31	774.437,13
2444+0,000	0,00	0,00	17,21	334,07	152.806,31	774.771,20
2445+0,000	0,00	0,00	18,52	357,48	152.806,31	775.128,69
2446+0,000	0,00	0,00	14,51	330,36	152.806,31	775.459,05
2447+0,000	1,13	11,34	1,11	156,08	152.817,65	775.615,13
2448+0,000	0,00	11,34	19,75	208,72	152.828,98	775.823,85
2449+0,000	0,00	0,00	20,37	401,57	152.828,98	776.225,42
2450+0,000	0,00	0,00	20,43	408,35	152.828,98	776.633,77
2451+0,000	0,00	0,00	20,43	408,92	152.828,98	777.042,70
2452+0,000	0,00	0,00	19,28	397,49	152.828,98	777.440,19
2453+0,000	0,00	0,00	18,61	379,39	152.828,98	777.819,58
2454+0,000	0,00	0,00	16,65	353,07	152.828,98	778.172,65
2455+0,000	0,00	0,00	16,40	330,38	152.828,98	778.503,04
2456+0,000	0,00	0,00	17,12	335,27	152.828,98	778.838,31
2457+0,000	0,00	0,01	17,36	345,63	152.828,99	779.183,94
2458+0,000	0,00	0,01	16,76	341,91	152.828,99	779.525,84
2459+0,000	0,00	0,00	16,77	335,57	152.828,99	779.861,41
2460+0,000	0,00	0,00	15,17	319,42	152.828,99	780.180,83
2461+0,000	0,00	0,00	15,00	301,67	152.828,99	780.482,50
2462+0,000	0,00	0,00	15,28	302,82	152.828,99	780.785,33
2463+0,000	0,00	0,00	14,28	295,65	152.828,99	781.080,97
2464+0,000	0,00	0,00	11,37	256,48	152.828,99	781.337,45

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2465+0,000	0,00	0,00	8,97	203,35	152.828,99	781.540,81
2466+0,000	0,00	0,00	15,15	241,16	152.828,99	781.781,97
2467+0,000	0,00	0,00	15,31	304,58	152.828,99	782.086,55
2468+0,000	0,00	0,00	15,16	304,71	152.828,99	782.391,26
2469+0,000	0,00	0,00	15,28	304,40	152.828,99	782.695,66
2470+0,000	0,00	0,00	14,88	301,58	152.828,99	782.997,24
2471+0,000	0,00	0,00	15,70	305,78	152.828,99	783.303,02
2472+0,000	0,00	0,00	15,13	308,32	152.828,99	783.611,34
2473+0,000	0,00	0,00	13,90	290,31	152.828,99	783.901,65
2474+0,000	0,00	0,00	12,02	259,18	152.828,99	784.160,83
2475+0,000	0,00	0,00	10,39	224,09	152.828,99	784.384,93
2476+0,000	0,00	0,00	17,18	275,70	152.828,99	784.660,62
2477+0,000	0,00	0,00	18,72	359,02	152.828,99	785.019,64
2478+0,000	0,00	0,00	18,52	372,42	152.828,99	785.392,06
2479+0,000	0,00	0,00	18,91	374,29	152.828,99	785.766,35
2480+0,000	0,00	0,00	19,37	382,79	152.828,99	786.149,14
2481+0,000	0,00	0,00	19,35	387,23	152.828,99	786.536,37
2482+0,000	0,00	0,00	20,16	395,18	152.828,99	786.931,55
2483+0,000	0,00	0,00	18,40	385,63	152.828,99	787.317,17
2484+0,000	0,00	0,00	19,44	378,41	152.828,99	787.695,58
2485+0,000	0,00	0,00	21,67	411,14	152.828,99	788.106,72
2486+0,000	0,00	0,00	21,81	434,81	152.828,99	788.541,53
2487+0,000	0,00	0,00	21,79	435,99	152.828,99	788.977,52
2488+0,000	0,00	0,00	21,88	436,75	152.828,99	789.414,26
2489+0,000	0,00	0,00	22,19	440,76	152.828,99	789.855,02
2490+0,000	0,00	0,00	22,71	449,64	152.828,99	790.304,66
2491+0,000	0,00	0,01	20,96	437,36	152.829,00	790.742,03
2492+0,000	0,01	0,11	18,42	394,32	152.829,11	791.136,35
2493+0,000	0,00	0,10	19,23	376,85	152.829,22	791.513,19
2494+0,000	0,00	0,00	21,35	406,42	152.829,22	791.919,61
2495+0,000	0,00	0,00	20,41	418,38	152.829,22	792.337,99
2496+0,000	0,00	0,00	18,40	388,73	152.829,22	792.726,72
2497+0,000	0,00	0,00	16,78	351,78	152.829,22	793.078,50
2498+0,000	0,00	0,00	15,07	318,51	152.829,22	793.397,01
2499+0,000	0,00	0,00	16,24	313,09	152.829,22	793.710,10
2500+0,000	0,00	0,00	16,05	322,92	152.829,22	794.033,02
2501+0,000	0,00	0,00	16,71	327,65	152.829,22	794.360,67
2502+0,000	0,00	0,00	17,06	337,70	152.829,22	794.698,38
2503+0,000	0,00	0,00	17,28	343,42	152.829,22	795.041,79
2504+0,000	0,00	0,00	17,27	345,53	152.829,22	795.387,33
2505+0,000	0,00	0,00	17,92	351,91	152.829,22	795.739,24
2506+0,000	0,00	0,00	18,20	361,20	152.829,22	796.100,44
2507+0,000	0,00	0,00	18,44	366,42	152.829,22	796.466,85
2508+0,000	0,00	0,00	17,97	364,14	152.829,22	796.830,99
2509+0,000	0,00	0,00	17,07	350,41	152.829,22	797.181,41
2510+0,000	0,00	0,00	17,07	341,37	152.829,22	797.522,78
2511+0,000	0,00	0,00	18,82	358,90	152.829,22	797.881,68
2512+0,000	0,00	0,00	17,92	367,43	152.829,22	798.249,10
2513+0,000	0,00	0,00	16,46	344,09	152.829,22	798.593,19
2514+0,000	0,00	0,00	8,82	253,02	152.829,23	798.846,21
2515+0,000	0,02	0,19	13,55	223,86	152.829,42	799.070,07
2516+0,000	0,63	6,42	2,79	163,77	152.835,85	799.233,83
2517+0,000	0,00	6,23	11,94	147,61	152.842,08	799.381,45
2518+0,000	0,00	0,00	13,00	249,78	152.842,08	799.631,23
2519+0,000	0,00	0,01	12,26	253,04	152.842,09	799.884,27
2520+0,000	0,00	0,03	13,75	260,43	152.842,12	800.144,70
2521+0,000	0,00	0,02	13,98	277,51	152.842,15	800.422,21
2522+0,000	0,00	0,00	16,38	303,65	152.842,15	800.725,87
2523+0,000	0,00	0,00	17,18	335,59	152.842,15	801.061,46
2524+0,000	0,00	0,00	16,49	336,60	152.842,15	801.398,06
2525+0,000	0,00	0,00	15,14	316,35	152.842,15	801.714,40
2526+0,000	0,00	0,00	15,41	305,55	152.842,15	802.019,95
2527+0,000	0,00	0,00	16,38	317,92	152.842,15	802.337,86

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2528+0,000	0,00	0,00	16,03	324,10	152.842,15	802.661,96
2529+0,000	0,00	0,00	15,95	319,81	152.842,15	802.981,77
2530+0,000	0,00	0,00	16,89	328,43	152.842,15	803.310,21
2531+0,000	0,00	0,00	16,83	337,23	152.842,15	803.647,43
2532+0,000	0,00	0,00	17,04	338,70	152.842,15	803.986,14
2533+0,000	0,00	0,00	17,29	343,26	152.842,15	804.329,40
2534+0,000	0,00	0,00	16,59	338,83	152.842,15	804.668,23
2535+0,000	0,00	0,00	14,10	306,93	152.842,15	804.975,16
2536+0,000	0,00	0,00	13,87	279,72	152.842,15	805.254,88
2537+0,000	0,00	0,00	10,99	248,68	152.842,15	805.503,57
2538+0,000	0,00	0,00	13,19	241,81	152.842,15	805.745,37
2539+0,000	0,00	0,00	13,52	267,06	152.842,15	806.012,44
2540+0,000	0,00	0,00	13,56	270,80	152.842,15	806.283,24
2541+0,000	0,00	0,00	13,99	275,48	152.842,15	806.558,72
2542+0,000	0,00	0,00	13,04	270,25	152.842,15	806.828,97
2543+0,000	0,00	0,00	13,30	263,37	152.842,15	807.092,34
2544+0,000	0,00	0,00	12,51	258,08	152.842,15	807.350,42
2545+0,000	0,00	0,00	12,15	246,58	152.842,15	807.597,00
2546+0,000	0,00	0,00	13,79	259,41	152.842,15	807.856,41
2547+0,000	0,00	0,00	13,39	272,13	152.842,15	808.128,54
2548+0,000	0,00	0,00	14,79	282,28	152.842,15	808.410,82
2549+0,000	0,00	0,00	13,70	285,46	152.842,15	808.696,28
2550+0,000	0,00	0,00	14,71	284,83	152.842,15	808.981,11
2551+0,000	0,00	0,00	14,26	290,54	152.842,15	809.271,65
2552+0,000	0,00	0,00	13,00	273,31	152.842,15	809.544,96
2553+0,000	0,00	0,04	11,13	241,88	152.842,20	809.786,84
2554+0,000	0,00	0,04	10,52	216,94	152.842,24	810.003,78
2555+0,000	0,00	0,02	9,89	204,50	152.842,26	810.208,28
2556+0,000	0,00	0,02	10,98	209,17	152.842,28	810.417,45
2557+0,000	0,00	0,00	12,68	237,13	152.842,28	810.654,58
2558+0,000	0,00	0,03	13,28	260,18	152.842,31	810.914,75
2559+0,000	0,00	0,08	12,78	261,09	152.842,38	811.175,84
2560+0,000	0,00	0,06	13,58	263,97	152.842,45	811.439,81
2561+0,000	0,00	0,02	14,66	282,71	152.842,46	811.722,52
2562+0,000	0,00	0,00	12,57	272,53	152.842,46	811.995,04
2563+0,000	0,00	0,00	11,68	242,61	152.842,47	812.237,65
2564+0,000	0,00	0,00	9,28	209,61	152.842,47	812.447,26
2565+0,000	0,00	0,00	9,85	191,33	152.842,47	812.638,59
2566+0,000	0,00	0,00	10,31	201,65	152.842,47	812.840,25
2567+0,000	0,00	0,00	10,49	208,01	152.842,47	813.048,26
2568+0,000	0,00	0,00	9,97	204,61	152.842,47	813.252,87
2569+0,000	0,00	0,00	8,19	181,60	152.842,47	813.434,47
2570+0,000	0,00	0,00	9,03	172,20	152.842,47	813.606,66
2571+0,000	0,17	1,69	9,35	183,81	152.844,15	813.790,47
2572+0,000	0,00	1,69	13,01	223,60	152.845,84	814.014,07
2573+0,000	0,00	0,00	13,48	264,92	152.845,84	814.278,99
2574+0,000	0,00	0,00	13,62	270,97	152.845,84	814.549,97
2575+0,000	0,00	0,00	13,49	271,05	152.845,84	814.821,01
2576+0,000	0,00	0,00	13,24	267,23	152.845,84	815.088,25
2577+0,000	0,00	0,00	12,83	260,69	152.845,84	815.348,94
2578+0,000	0,00	0,00	12,66	254,98	152.845,84	815.603,92
2579+0,000	0,00	0,00	12,09	247,51	152.845,84	815.851,43
2580+0,000	0,00	0,00	12,34	244,30	152.845,84	816.095,73
2581+0,000	0,00	0,00	12,10	244,42	152.845,84	816.340,15
2582+0,000	0,00	0,00	11,55	236,50	152.845,84	816.576,65
2583+0,000	0,00	0,00	11,56	231,10	152.845,84	816.807,74
2584+0,000	0,00	0,00	12,21	237,70	152.845,84	817.045,44
2585+0,000	0,00	0,00	11,62	238,36	152.845,84	817.283,80
2586+0,000	0,00	0,00	12,37	239,97	152.845,84	817.523,77
2587+0,000	0,00	0,00	11,57	239,38	152.845,84	817.763,15
2588+0,000	0,00	0,00	11,60	231,70	152.845,84	817.994,85
2589+0,000	0,00	0,00	11,92	235,24	152.845,84	818.230,09
2590+0,000	0,00	0,00	12,00	239,18	152.845,84	818.469,28

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m³)	
	Área (m²)	Volume (m³)	Área (m²)	Volume (m³)	Corte	Aterro
2591+0,000	0,00	0,00	11,22	232,17	152.845,84	818.701,45
2592+0,000	0,00	0,00	11,39	226,08	152.845,84	818.927,53
2593+0,000	0,00	0,00	11,82	232,09	152.845,84	819.159,62
2594+0,000	0,00	0,00	10,82	226,40	152.845,84	819.386,02
2595+0,000	0,00	0,00	11,96	227,85	152.845,84	819.613,87
2596+0,000	0,00	0,00	11,98	239,46	152.845,84	819.853,33
2597+0,000	0,00	0,00	13,03	250,11	152.845,84	820.103,44
2598+0,000	0,00	0,00	14,12	271,51	152.845,84	820.374,94
2599+0,000	0,00	0,00	14,61	287,83	152.845,84	820.662,77
2600+0,000	0,00	0,00	14,22	288,83	152.845,84	820.951,60
2601+0,000	0,00	0,04	14,69	289,54	152.845,88	821.241,14
2602+0,000	0,00	0,04	15,89	306,15	152.845,92	821.547,29
2603+0,000	0,00	0,00	16,01	318,95	152.845,92	821.866,24
2604+0,000	0,00	0,00	15,50	315,08	152.845,92	822.181,32
2605+0,000	0,00	0,00	16,23	317,33	152.845,92	822.498,65
2606+0,000	0,00	0,00	17,27	335,00	152.845,92	822.833,65
2607+0,000	0,00	0,00	16,82	340,82	152.845,92	823.174,48
2608+0,000	0,00	0,00	16,68	334,94	152.845,92	823.509,42
2609+0,000	0,00	0,00	16,29	329,65	152.845,92	823.839,06
2610+0,000	0,00	0,00	15,73	320,20	152.845,92	824.159,27
2611+0,000	0,00	0,00	13,49	292,27	152.845,92	824.451,54
2612+0,000	0,00	0,00	11,43	249,21	152.845,92	824.700,75
2613+0,000	9,24	92,37	0,00	114,27	152.938,29	824.815,02
2614+0,000	0,00	92,37	9,02	90,23	153.030,66	824.905,25
2615+0,000	0,00	0,00	17,32	263,39	153.030,66	825.168,64
2616+0,000	0,00	0,00	17,33	346,45	153.030,66	825.515,08
2617+0,000	0,00	0,00	18,05	353,81	153.030,66	825.868,89
2618+0,000	0,00	0,00	19,53	375,86	153.030,66	826.244,75
2619+0,000	0,00	0,00	18,63	381,67	153.030,66	826.626,42
2620+0,000	0,00	0,00	19,35	379,79	153.030,66	827.006,21
2621+0,000	0,00	0,00	19,60	389,45	153.030,66	827.395,66
2622+0,000	0,00	0,00	20,77	403,73	153.030,66	827.799,39
2623+0,000	0,00	0,00	19,91	406,92	153.030,67	828.206,31
2624+0,000	0,00	0,00	20,86	407,84	153.030,67	828.614,15
2625+0,000	0,00	0,01	19,39	402,59	153.030,68	829.016,74
2626+0,000	0,00	0,02	18,30	377,05	153.030,70	829.393,79
2627+0,000	0,00	0,02	17,19	355,16	153.030,72	829.748,95
2628+0,000	0,00	0,02	16,25	334,69	153.030,74	830.083,64
2629+0,000	0,03	0,34	14,18	304,48	153.031,08	830.388,11
2630+0,000	0,00	0,35	12,50	266,72	153.031,43	830.654,84
2631+0,000	0,00	0,00	11,52	240,11	153.031,43	830.894,95
2632+0,000	0,00	0,00	10,74	222,55	153.031,43	831.117,50
2633+0,000	0,00	0,00	10,33	210,73	153.031,43	831.328,23
2634+0,000	0,00	0,00	10,31	206,44	153.031,43	831.534,67
2635+0,000	0,00	0,00	11,83	221,43	153.031,43	831.756,10
2636+0,000	0,00	0,00	12,54	243,70	153.031,43	831.999,80
2637+0,000	0,00	0,00	12,70	252,40	153.031,43	832.252,20
2638+0,000	0,00	0,00	13,53	262,28	153.031,43	832.514,48
2639+0,000	0,00	0,00	13,52	270,45	153.031,43	832.784,93
2640+0,000	0,00	0,00	10,64	241,64	153.031,43	833.026,57
2641+0,000	0,68	6,79	9,47	201,14	153.038,22	833.227,71
2642+0,000	0,00	6,79	8,88	183,50	153.045,00	833.411,21
2643+0,000	0,00	0,00	4,81	136,90	153.045,00	833.548,11
2644+0,000	0,00	0,00	14,26	190,67	153.045,00	833.738,78
2645+0,000	0,00	0,00	14,54	287,99	153.045,00	834.026,77
2646+0,000	0,00	0,00	13,87	284,07	153.045,00	834.310,84
2647+0,000	0,00	0,00	14,77	286,32	153.045,00	834.597,16
2648+0,000	0,00	0,00	14,36	291,22	153.045,00	834.888,38
2649+0,000	0,00	0,00	13,38	277,39	153.045,00	835.165,77
2650+0,000	0,00	0,00	13,83	272,11	153.045,00	835.437,87
2651+0,000	0,00	0,00	13,76	275,88	153.045,00	835.713,76
2652+0,000	0,00	0,00	13,08	268,41	153.045,00	835.982,17
2653+0,000	0,00	0,00	12,91	259,87	153.045,00	836.242,04

Cálculo de Volumes de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
2654+0,000	0,00	0,00	12,72	256,24	153.045,00	836.498,28
2655+0,000	0,00	0,00	13,42	261,41	153.045,00	836.759,68
2656+0,000	0,00	0,00	14,32	277,48	153.045,00	837.037,16
2657+0,000	0,00	0,00	13,68	280,00	153.045,00	837.317,16
2658+0,000	0,00	0,00	14,43	281,09	153.045,00	837.598,25
2659+0,000	0,00	0,00	15,19	296,25	153.045,00	837.894,50
2660+0,000	0,00	0,00	16,48	316,72	153.045,00	838.211,22
2661+0,000	0,00	0,00	18,72	352,01	153.045,00	838.563,23
2662+0,000	0,00	0,00	16,93	356,49	153.045,00	838.919,72
2663+0,000	0,00	0,00	17,42	343,50	153.045,00	839.263,22
2664+0,000	0,00	0,00	15,67	331,50	153.045,00	839.594,72
2665+0,000	0,00	0,00	22,21	379,49	153.045,00	839.974,21
2666+0,000	0,04	0,37	10,60	328,83	153.045,38	840.303,04
2667+0,000	0,01	0,47	17,77	284,54	153.045,85	840.587,57
2668+0,000	0,00	0,10	16,94	347,71	153.045,95	840.935,29
2669+0,000	0,00	0,00	17,07	340,64	153.045,95	841.275,93
2670+0,000	0,00	0,03	16,71	338,33	153.045,97	841.614,26
2671+0,000	0,00	0,03	18,59	353,57	153.046,00	841.967,83
2672+0,000	0,00	0,00	17,13	357,75	153.046,00	842.325,58
2673+0,000	0,00	0,00	18,39	355,75	153.046,00	842.681,33
2674+0,000	0,00	0,00	21,48	399,22	153.046,00	843.080,55
2675+0,000	0,00	0,00	21,61	430,85	153.046,01	843.511,40
2676+0,000	0,00	0,00	22,93	445,40	153.046,01	843.956,80
2677+0,000	0,00	0,00	20,66	435,89	153.046,01	844.392,70
2678+0,000	0,00	0,00	21,49	421,53	153.046,01	844.814,23
2679+0,000	0,00	0,00	21,82	433,18	153.046,01	845.247,40
2680+0,000	0,00	0,00	21,82	436,45	153.046,01	845.683,85
2681+0,000	0,00	0,00	22,93	447,49	153.046,01	846.131,33
2682+0,000	0,00	0,00	21,87	448,00	153.046,01	846.579,33
2683+0,000	0,00	0,00	22,01	438,86	153.046,01	847.018,19
2684+0,000	0,00	0,00	20,60	426,14	153.046,01	847.444,33
2685+0,000	0,00	0,00	20,85	414,46	153.046,01	847.858,79
2686+0,000	0,00	0,00	18,80	396,49	153.046,01	848.255,28
2687+0,000	0,00	0,00	18,86	376,67	153.046,01	848.631,96
2688+0,000	0,00	0,00	17,76	366,20	153.046,01	848.998,16
2689+0,000	0,00	0,00	14,71	324,64	153.046,01	849.322,81
2690+0,000	0,00	0,00	15,00	297,08	153.046,01	849.619,89
2691+0,000	0,00	0,00	19,89	348,94	153.046,01	849.968,83
2692+0,000	0,00	0,00	17,52	374,14	153.046,01	850.342,97
2693+0,000	0,00	0,00	15,07	325,86	153.046,01	850.668,83
2694+0,000	0,00	0,00	15,28	303,48	153.046,01	850.972,31
2695+0,000	0,00	0,00	12,87	281,54	153.046,01	851.253,85
2696+0,000	0,00	0,00	13,72	265,94	153.046,01	851.519,79
2697+0,000	0,00	0,00	13,16	268,81	153.046,01	851.788,60
2698+0,000	0,00	0,00	11,82	249,76	153.046,01	852.038,36
2699+0,000	0,00	0,00	12,73	245,49	153.046,01	852.283,85
2700+0,000	0,00	0,00	11,83	245,67	153.046,01	852.529,51
2701+0,000	0,00	0,00	11,11	229,44	153.046,01	852.758,95
2702+0,000	0,00	0,00	11,63	227,39	153.046,01	852.986,34
2703+0,000	0,00	0,00	11,32	229,47	153.046,01	853.215,81
2704+0,000	0,00	0,00	13,32	246,40	153.046,01	853.462,22
2705+0,000	0,00	0,00	15,90	292,28	153.046,01	853.754,50
2706+0,000	0,00	0,00	12,15	280,68	153.046,02	854.035,18
2707+0,000	0,00	0,00	12,56	247,29	153.046,02	854.282,47
2708+0,000	0,16	1,58	11,16	237,52	153.047,60	854.519,99
2709+0,000	0,04	1,97	11,47	226,86	153.049,57	854.746,85
2710+0,000	0,02	0,60	13,34	248,70	153.050,17	854.995,56
2711+0,000	0,00	0,21	13,87	272,76	153.050,38	855.268,32
2712+0,000	0,00	0,00	13,90	278,44	153.050,38	855.546,76
2713+0,000	0,00	0,00	13,89	278,54	153.050,38	855.825,30
2714+0,000	0,00	0,00	14,88	288,40	153.050,38	856.113,70
2715+0,000	0,00	0,00	15,53	304,88	153.050,38	856.418,58
2716+0,000	0,00	0,00	16,66	322,56	153.050,38	856.741,14

Cálculo de Volumes de Terraplenagem						
<i>Alinhamento: Estrada Chapada das Covas</i>						
Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
2717+0,000	0,00	0,00	14,95	316,50	153.050,38	857.057,64
2718+0,000	0,00	0,00	12,83	278,01	153.050,38	857.335,65
2719+0,000	0,00	0,00	12,17	250,14	153.050,38	857.585,80
2720+0,000	0,00	0,00	10,76	229,39	153.050,38	857.815,18
2721+0,000	0,00	0,00	8,70	194,68	153.050,38	858.009,86
2722+0,000	0,00	0,00	6,74	154,33	153.050,38	858.164,19
2723+0,000	0,00	0,00	3,89	106,24	153.050,38	858.270,43
2724+0,000	0,00	0,00	4,71	85,98	153.050,38	858.356,42
2725+0,000	0,27	2,74	0,19	49,05	153.053,12	858.405,46
2726+0,000	0,34	6,15	1,55	17,46	153.059,27	858.422,93
2727+0,000	0,00	3,40	3,81	53,65	153.062,67	858.476,58
2728+0,000	0,00	0,00	3,63	74,39	153.062,67	858.550,97
2729+0,000	0,06	0,59	1,16	47,89	153.063,27	858.598,86
2730+0,000	0,00	0,59	2,29	34,53	153.063,86	858.633,39
2731+0,000	0,18	1,83	0,61	29,06	153.065,69	858.662,44
2732+0,000	0,01	1,95	1,44	20,58	153.067,63	858.683,02
2733+0,000	0,31	3,21	1,48	29,27	153.070,85	858.712,29
2734+0,000	0,28	5,88	0,69	21,70	153.076,72	858.733,99
2735+0,000	0,00	2,78	3,18	38,65	153.079,50	858.772,64
2736+0,000	0,17	1,74	2,43	56,13	153.081,24	858.828,78
2737+0,000	0,70	8,74	0,15	25,85	153.089,98	858.854,63
2738+0,000	1,78	24,81	0,58	7,29	153.114,79	858.861,92
2739+0,000	5,31	70,91	0,00	5,78	153.185,69	858.867,71
2740+0,000	8,24	135,52	0,00	0,00	153.321,21	858.867,71
2741+0,000	5,92	141,66	0,00	0,00	153.462,88	858.867,71
2742+0,000	6,63	125,59	0,00	0,00	153.588,47	858.867,71
2743+0,000	10,19	168,22	0,00	0,00	153.756,69	858.867,71
2743+19,470	0,00	99,19	0,00	0,00	153.855,88	858.867,71

Cálculo de Volumes de Terraplenagem

Alinhamento: *Interseção GO-437*

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
0+0,000	3,83	0,00	0,00	0,00	-	-
1+0,000	1,13	49,60	0,00	0,00	49,60	-
2+0,000	0,00	11,34	1,28	12,82	60,93	12,82
3+0,000	0,00	0,00	2,56	38,44	60,93	51,26
4+0,000	0,00	0,01	2,43	49,95	60,94	101,21
5+0,000	0,00	0,01	6,09	85,84	60,95	187,05
6+0,000	0,00	0,00	8,04	142,58	60,95	329,63
7+0,000	0,00	0,00	10,28	184,65	60,95	514,28
8+0,000	0,00	0,00	11,73	220,71	60,95	734,99
9+0,000	0,00	0,00	10,98	227,08	60,95	962,07
10+0,000	0,00	0,00	11,52	225,00	60,95	1.187,07
11+0,000	0,00	0,00	14,34	258,53	60,95	1.445,60
12+0,000	0,00	0,00	19,43	337,68	60,95	1.783,28
13+0,000	0,00	0,00	27,10	465,35	60,95	2.248,63
14+0,000	0,00	0,00	33,40	605,02	60,95	2.853,65
15+0,000	0,00	0,00	38,44	718,35	60,95	3.572,00
16+0,000	0,00	0,00	37,83	762,71	60,95	4.334,71
17+0,000	0,00	0,00	38,79	766,25	60,95	5.100,96
18+0,000	0,00	0,00	36,99	757,81	60,95	5.858,77
19+0,000	0,00	0,00	36,15	731,40	60,95	6.590,18
20+0,000	0,00	0,00	31,79	679,39	60,95	7.269,57
21+0,000	0,00	0,00	27,08	588,66	60,95	7.858,22
22+0,000	0,00	0,00	23,33	504,08	60,95	8.362,31
23+0,000	0,00	0,00	18,85	421,80	60,95	8.784,10
24+0,000	0,00	0,00	12,09	309,41	60,95	9.093,51
25+0,000	0,00	0,00	10,49	225,85	60,95	9.319,36
26+0,000	0,00	0,00	9,53	200,19	60,95	9.519,55
27+0,000	0,00	0,00	9,58	191,03	60,95	9.710,59
28+0,000	0,00	0,00	9,65	192,25	60,95	9.902,84
29+0,000	0,00	0,00	8,58	182,34	60,95	10.085,17
30+0,000	0,00	0,00	8,00	165,83	60,95	10.251,00
31+0,000	0,00	0,00	6,38	143,75	60,95	10.394,75
32+0,000	0,00	0,00	4,99	113,65	60,95	10.508,41
33+0,000	0,00	0,00	2,85	78,34	60,95	10.586,75
34+0,000	0,00	0,00	1,29	41,33	60,95	10.628,08
35+0,000	0,31	3,10	0,22	15,04	64,05	10.643,13
36+0,000	1,47	17,75	0,00	2,16	81,80	10.645,29
37+0,000	2,82	42,84	0,00	0,00	124,64	10.645,29
38+0,000	4,26	70,83	0,00	0,00	195,47	10.645,29
39+0,000	4,75	90,08	0,00	0,00	285,55	10.645,29
40+0,000	5,00	97,69	0,00	0,00	383,25	10.645,29
41+0,000	5,10	101,24	0,00	0,00	484,48	10.645,29
42+0,000	3,13	82,66	0,00	0,00	567,14	10.645,29
43+0,000	0,37	35,01	0,61	6,11	602,15	10.651,40
44+0,000	0,00	3,70	8,15	87,61	605,85	10.739,01
45+0,000	0,96	9,56	3,42	115,70	615,41	10.854,71
45+17,000	3,36	38,60	0,00	30,61	654,01	10.885,33

Cálculo de Volumes de Terraplenagem



Alinhamento: Interseção GO-139

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
quantitativos computados junto ao da Estrada Chapada das Covas						

Cálculo de Volumes de Terraplenagem

Alinhamento: *Interseção GO-010*

Estaca	Corte		Aterro		Volume acumulado (m ³)	
	Área (m ²)	Volume (m ³)	Área (m ²)	Volume (m ³)	Corte	Aterro
0+0,000	0,79	0,00	0,00	0,00	-	-
1+0,000	0,00	8,38	8,61	87,18	8,38	87,18
2+0,000	0,00	0,00	6,78	154,44	8,38	241,62
3+0,000	0,00	0,00	3,04	96,71	8,38	338,33
4+0,000	0,00	0,00	0,00	29,45	8,38	367,77
5+0,000	0,00	0,00	7,47	69,82	8,38	437,60
6+0,000	0,00	0,00	12,24	186,60	8,38	624,19
7+0,000	0,00	0,00	17,70	292,65	8,38	916,85
7+16,000	0,16	1,40	0,31	145,88	9,78	1.062,73

	Volume 3A – Notas de Serviço e Cálculo de Volumes de Terraplenagem	REV.: 00	
	ANTEPROJETO DE ENGENHARIA PARA CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS	FOLHA: 57	

3. NOTAS DE SERVIÇO DE TERRAPLENAGEM

Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
0+0.000									1052,620	1052,828			750.485,354	8.180.497,456										
1+0.000									1052,909	1051,519			750.505,094	8.180.500,670										
2+0.000	7,41	1052,879					-6,78	1,6%	1053,092	1053,198	1052,885	0,31	750.524,834	8.180.503,883	1052,936	-2,0%	13,08						13,21	1052,849
3+0.000	7,41	1053,036					-6,60	1,4%	1053,394	1053,484	1053,050	0,43	750.544,575	8.180.507,096	1053,348	-2,0%	6,79						7,19	1053,080
4+0.000	7,39	1053,239					-6,60	1,2%	1053,611	1053,687	1053,250	0,44	750.564,315	8.180.510,309	1053,555	-2,0%	6,60						7,02	1053,275
5+0.000	7,48	1053,250					-6,60	0,9%	1053,711	1053,772	1053,278	0,49	750.584,055	8.180.513,522	1053,640	-2,0%	6,60						7,12	1053,290
6+0.000	7,51	1053,181					-6,60	0,7%	1053,691	1053,739	1053,171	0,57	750.603,795	8.180.516,735	1053,607	-2,0%	6,60						7,22	1053,197
7+0.000	7,46	1053,049					-6,60	0,5%	1053,557	1053,591	1053,027	0,56	750.623,535	8.180.519,949	1053,459	-2,0%	6,60						7,22	1053,049
8+0.000	7,31	1052,953					-6,60	0,3%	1053,388	1053,408	1052,972	0,44	750.643,276	8.180.523,162	1053,276	-2,0%	6,60						7,08	1052,953
9+0.000	7,42	1052,684					-6,60	0,1%	1053,220	1053,225	1052,730	0,49	750.663,016	8.180.526,375	1053,093	-2,0%	6,60						7,14	1052,736
10+0.000	7,41	1052,494					-6,60	-0,1%	1053,051	1053,042	1052,462	0,58	750.682,756	8.180.529,588	1052,910	-2,0%	6,60						7,30	1052,446
11+0.000	7,63	1052,150					-6,60	-0,3%	1052,881	1052,859	1052,126	0,73	750.702,496	8.180.532,801	1052,727	-2,0%	6,60						7,44	1052,164
12+0.000	7,99	1051,726					-6,60	-0,6%	1052,724	1052,687	1051,832	0,85	750.722,236	8.180.536,014	1052,555	-2,0%	6,60						7,58	1051,902
13+0.000	8,23	1051,444					-6,60	-0,8%	1052,634	1052,583	1051,496	1,09	750.741,977	8.180.539,228	1052,451	-2,0%	6,60						7,95	1051,554
14+0.000	8,53	1051,203					-6,60	-1,0%	1052,619	1052,554	1051,308	1,25	750.761,717	8.180.542,441	1052,422	-2,0%	6,60						8,24	1051,329
15+0.000	9,17	1050,807					-6,60	-1,2%	1052,678	1052,599	1050,970	1,63	750.781,457	8.180.545,654	1052,467	-2,0%	6,60						8,66	1051,096
16+0.000	9,75	1050,513					-6,60	-1,4%	1052,801	1052,708	1050,699	2,01	750.801,197	8.180.548,867	1052,576	-2,0%	6,60						9,13	1050,891
17+0.000	10,37	1050,201					-6,60	-1,6%	1052,931	1052,824	1050,358	2,47	750.820,937	8.180.552,080	1052,692	-2,0%	6,60						9,80	1050,558
18+0.000	10,90	1049,955					-6,60	-1,8%	1053,061	1052,940	1050,128	2,81	750.840,678	8.180.555,293	1052,808	-2,0%	6,60						10,31	1050,334
19+0.000	11,41	1049,716					-6,60	-2,0%	1053,188	1053,056	1049,925	3,13	750.860,418	8.180.558,507	1052,965	-1,4%	6,60						10,75	1050,198
20+0.000	11,76	1049,564					-6,60	-2,0%	1053,269	1053,137	1049,787	3,35	750.880,158	8.180.561,720	1053,228	1,4%	6,60						11,38	1050,038
21+0.000	11,63	1049,542					-6,60	-4,0%	1053,423	1053,159	1049,740	3,42	750.899,857	8.180.565,171	1053,423	4,0%	6,60						11,76	1049,986
22+0.000	11,56	1049,552					-6,60	-4,0%	1053,385	1053,121	1049,810	3,31	750.919,450	8.180.569,181	1053,385	4,0%	6,60						11,62	1050,039
23+0.000	11,23	1049,678					-6,60	-4,0%	1053,290	1053,026	1049,905	3,12	750.938,921	8.180.573,749	1053,290	4,0%	6,60						11,16	1050,249
24+0.000	10,92	1049,762					-6,60	-4,0%	1053,170	1052,906	1049,984	2,92	750.958,253	8.180.578,872	1053,170	4,0%	6,60						10,63	1050,484
25+0.000	10,50	1049,924					-6,60	-4,0%	1053,051	1052,787	1050,139	2,65	750.977,431	8.180.584,545	1053,051	4,0%	6,60						10,32	1050,568
26+0.000	10,01	1050,129					-6,60	-4,0%	1052,931	1052,667	1050,373	2,29	750.996,439	8.180.590,764	1052,931	4,0%	6,60						10,21	1050,526
27+0.000	9,41	1050,408					-6,60	-4,0%	1052,812	1052,548	1050,590	1,96	751.015,261	8.180.597,523	1052,812	4,0%	6,60						9,94	1050,586
28+0.000	8,82	1050,687					-6,60	-4,0%	1052,692	1052,428	1050,806	1,62	751.033,883	8.180.604,817	1052,692	4,0%	6,60						9,15	1050,995
29+0.000	8,21	1050,975					-6,60	-4,0%	1052,573	1052,309	1050,922	1,39	751.052,289	8.180.612,640	1052,573	4,0%	6,60						8,86	1051,065
30+0.000	7,67	1051,214					-6,60	-4,0%	1052,453	1052,189	1051,110	1,08	751.070,464	8.180.620,985	1052,453	4,0%	6,60						8,01	1051,511
31+0.000	7,21	1051,466					-6,60	-3,0%	1052,268	1052,070	1051,321	0,75	751.088,393	8.180.629,847	1052,268	3,0%	6,60						7,74	1051,510
32+0.000	6,93	1051,601					-6,60	-2,0%	1052,083	1051,951	1051,479	0,47	751.106,094	8.180.639,156	1051,967	0,2%	6,60						7,20	1051,568
33+0.000	6,76	1051,592					-6,60	-2,0%	1051,963	1051,831	1051,473	0,36	751.123,761	8.180.648,529	1051,699	-2,0%	6,60						6,67	1051,655
34+0.000	6,73	1051,706					-6,60	-2,0%	1051,844	1051,712	1051,481	0,23	751.141,429	8.180.657,903	1051,580	-2,0%	6,60						6,63	1051,607
35+0.000	6,64	1051,504					-6,60	-2,0%	1051,724	1051,592	1051,338	0,25	751.159,096	8.180.667,277	1051,460	-2,0%	6,60						6,71	1051,385
36+0.000	6,70	1051,274					-6,60	-2,0%	1051,605	1051,473	1051,259	0,21	751.176,763	8.180.676,651	1051,341	-2,0%	6,60						6,84	1051,181
37+0.000	6,71	1051,151					-6,60	-2,0%	1051,485	1051,353	1051,085	0,27	751.194,431	8.180.686,024	1051,221	-2,0%	6,60						6,80	1051,090
38+0.000	6,61	1051,108					-6,60	-2,0%	1051,366	1051,234	1051,020	0,21	751.212,098	8.180.695,398	1051,102	-2,0%	6,60						6,84	1050,943
39+0.000	6,63	1051,016					-6,60	-2,0%	1051,246	1051,114	1050,928	0,19	751.229,765	8.180.704,772	1050,982	-2,0%	6,60						6,68	1050,926
40+0.000	6,76	1051,019					-6,60	-2,0%	1051,127	1050,995	1050,792	0,20	751.247,432	8.180.714,146	1050,863	-2,0%	6,60						7,14	1051,403



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9															
41+0.000	6,91	1051,052					-6,60	-2,0%	1051,007	1050,875	1050,586	0,29	751.265,100	8.180.723,519	1050,743	-2,0%	6,60						7,03	1050,458
42+0.000	6,66	1050,686					-6,60	-2,0%	1050,888	1050,756	1050,272	0,48	751.282,767	8.180.732,893	1050,624	-2,0%	6,60						6,86	1050,449
43+0.000	6,67	1050,574					-6,60	-2,0%	1050,769	1050,637	1050,122	0,51	751.300,434	8.180.742,267	1050,505	-2,0%	6,60						6,70	1050,439
44+0.000	6,67	1050,489					-6,60	-2,0%	1050,684	1050,552	1050,038	0,51	751.318,101	8.180.751,641	1050,420	-2,0%	6,60						7,26	1049,982
45+0.000	7,29	1049,932					-6,60	-2,0%	1050,657	1050,525	1049,389	1,14	751.335,769	8.180.761,014	1050,393	-2,0%	6,60						7,63	1049,708
46+0.000	7,91	1049,551					-6,60	-2,0%	1050,689	1050,557	1049,148	1,41	751.353,436	8.180.770,388	1050,425	-2,0%	6,60						8,36	1049,250
47+0.000	8,52	1049,238					-6,60	-2,0%	1050,778	1050,646	1048,944	1,70	751.371,103	8.180.779,762	1050,514	-2,0%	6,60						9,23	1048,761
48+0.000	8,91	1049,085					-6,60	-2,0%	1050,891	1050,759	1048,787	1,97	751.388,771	8.180.789,136	1050,627	-2,0%	6,60						9,73	1048,538
49+0.000	9,47	1048,826					-6,60	-2,0%	1051,005	1050,873	1048,701	2,17	751.406,438	8.180.798,510	1050,741	-2,0%	6,60						10,44	1048,180
50+0.000	10,04	1048,560					-6,60	-2,0%	1051,118	1050,986	1048,493	2,49	751.424,105	8.180.807,883	1050,854	-2,0%	6,60						10,88	1048,002
51+0.000	10,50	1048,366					-6,60	-2,0%	1051,226	1051,094	1048,353	2,74	751.441,772	8.180.817,257	1050,962	-2,0%	6,60						9,75	1048,863
52+0.000	10,79	1048,234					-6,60	-2,0%	1051,291	1051,159	1048,266	2,89	751.459,440	8.180.826,631	1051,027	-2,0%	6,60						12,71	1046,955
53+0.000	10,70	1048,304					-6,60	-2,0%	1051,302	1051,170	1048,360	2,81	751.477,107	8.180.836,005	1051,038	-2,0%	6,60						10,66	1048,333
54+0.000	10,28	1048,544					-6,60	-2,0%	1051,260	1051,128	1048,417	2,71	751.494,774	8.180.845,378	1050,996	-2,0%	6,60						10,91	1048,126
55+0.000	10,36	1048,484					-6,60	-0,7%	1051,083	1051,038	1048,408	2,63	751.512,454	8.180.854,729	1050,902	-2,0%	6,82						10,71	1048,311
56+0.000	10,29	1048,618					-6,60	2,1%	1050,798	1050,938	1048,626	2,31	751.530,263	8.180.863,829	1050,786	-2,1%	7,19						10,73	1048,424
57+0.000	10,38	1048,641					-6,60	4,9%	1050,513	1050,838	1048,635	2,20	751.548,357	8.180.872,346	1050,483	-4,9%	7,21						10,10	1048,555
58+0.000	10,22	1048,693					-6,60	5,6%	1050,369	1050,739	1048,707	2,03	751.566,852	8.180.879,952	1050,336	-5,6%	7,20						8,83	1049,247
59+0.000	10,04	1048,713					-6,60	5,6%	1050,269	1050,639	1048,663	1,98	751.585,740	8.180.886,521	1050,236	-5,6%	7,20						9,86	1048,463
60+0.000	9,47	1048,996					-6,60	5,6%	1050,169	1050,539	1048,844	1,69	751.604,963	8.180.892,030	1050,136	-5,6%	7,20						9,22	1048,789
61+0.000	9,37	1048,962					-6,60	5,6%	1050,069	1050,439	1049,011	1,43	751.624,463	8.180.896,464	1050,036	-5,6%	7,20						8,72	1049,023
62+0.000	9,01	1049,106					-6,60	5,6%	1049,970	1050,340	1049,049	1,29	751.644,179	8.180.899,808	1049,937	-5,6%	7,20						8,48	1049,086
63+0.000	8,42	1049,399					-6,60	5,6%	1049,870	1050,240	1049,340	0,90	751.664,050	8.180.902,053	1049,837	-5,6%	7,20						7,94	1049,342
64+0.000	8,16	1049,470					-6,60	5,6%	1049,770	1050,140	1049,463	0,68	751.684,015	8.180.903,190	1049,737	-5,6%	7,20						7,66	1049,428
65+0.000	7,95	1049,510					-6,60	5,6%	1049,670	1050,040	1049,479	0,56	751.704,012	8.180.903,217	1049,637	-5,6%	7,20						7,48	1049,448
66+0.000	7,98	1049,393					-6,60	5,6%	1049,571	1049,941	1049,348	0,59	751.723,980	8.180.902,134	1049,538	-5,6%	7,20						7,52	1049,323
67+0.000	8,05	1049,246					-6,60	5,6%	1049,471	1049,841	1049,211	0,63	751.743,857	8.180.899,943	1049,438	-5,6%	7,20						7,54	1049,209
68+0.000	7,81	1049,302					-6,60	5,6%	1049,371	1049,741	1049,231	0,51	751.763,582	8.180.896,652	1049,338	-5,6%	7,20						7,38	1049,216
69+0.000	7,82	1049,196					-6,60	5,6%	1049,272	1049,642	1049,168	0,47	751.783,094	8.180.892,271	1049,239	-5,6%	7,20						7,31	1049,166
70+0.000	7,58	1049,259					-6,60	5,6%	1049,172	1049,542	1049,156	0,39	751.802,332	8.180.886,814	1049,139	-5,6%	7,20						7,22	1049,123
71+0.000	7,72	1049,068					-6,60	5,6%	1049,072	1049,442	1049,230	0,21	751.821,238	8.180.880,296	1049,039	-5,6%	7,20						7,36	1049,198
72+0.000	7,52	1048,918					-6,60	2,8%	1049,155	1049,342	1049,137	0,21	751.839,775	8.180.872,794	1049,138	-2,8%	7,19						7,21	1049,150
73+0.000	7,22	1048,830					-6,60	0,0%	1049,240	1049,243	1049,001	0,24	751.858,021	8.180.864,605	1049,101	-2,0%	7,08						7,28	1048,973
74+0.000	7,59	1048,353					-6,60	-2,0%	1049,275	1049,143	1048,785	0,36	751.876,111	8.180.856,075	1049,011	-2,0%	6,61						7,03	1048,730
75+0.000	7,71	1048,172					-6,60	-2,0%	1049,176	1049,044	1048,421	0,62	751.894,173	8.180.847,488	1048,912	-2,0%	6,60						7,53	1048,291
76+0.000	8,02	1047,907					-6,60	-2,0%	1049,116	1048,984	1048,082	0,90	751.912,236	8.180.838,900	1048,852	-2,0%	6,60						8,00	1047,918
77+0.000	8,53	1047,565					-6,60	-2,0%	1049,117	1048,985	1047,663	1,32	751.930,298	8.180.830,312	1048,853	-2,0%	6,60						8,33	1047,703
78+0.000	8,77	1047,470					-6,60	-2,0%	1049,180	1049,048	1047,509	1,54	751.948,361	8.180.821,724	1048,916	-2,0%	6,60						8,61	1047,578
79+0.000	9,05	1047,403					-6,60	-2,0%	1049,303	1049,171	1047,356	1,82	751.966,423	8.180.813,137	1049,039	-2,0%	6,60						9,07	1047,391
80+0.000	9,53	1047,231					-6,60	-2,0%	1049,449	1049,317	1047,241	2,08	751.984,485	8.180.804,549	1049,185	-2,0%	6,60						9,37	1047,341
81+0.000	9,63	1047,314					-6,60	-2,0%	1049,595	1049,463	1047,338	2,13	752.002,548	8.180.795,961	1049,331	-2,0%	6,60						9,79	1047,204



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	4		5		6		7		8		9									
82+0.000	10,02	1047,196					-6,60	-2,0%	1049,741	1049,609	1047,761	1,85	752.020,610	8.180.787,373	1049,477	-2,0%	6,60						9,44	1047,583
83+0.000	10,29	1047,163					-6,60	-2,0%	1049,887	1049,755	1047,008	2,75	752.038,673	8.180.778,785	1049,623	-2,0%	6,60						10,35	1047,124
84+0.000	10,24	1047,342					-6,60	-2,0%	1050,033	1049,901	1047,013	2,89	752.056,735	8.180.770,198	1049,769	-2,0%	6,60						10,42	1047,219
85+0.000	10,50	1047,315					-6,60	-2,0%	1050,179	1050,047	1047,210	2,84	752.074,797	8.180.761,610	1049,915	-2,0%	6,60						10,31	1047,440
86+0.000	10,63	1047,481					-6,76	-2,0%	1050,328	1050,193	1047,551	2,64	752.092,876	8.180.753,057	1050,061	-2,0%	6,60						10,02	1047,781
87+0.000	10,57	1047,817					-7,00	-2,0%	1050,479	1050,339	1047,950	2,39	752.111,085	8.180.744,786	1050,342	0,1%	6,60						9,91	1048,134
88+0.000	10,24	1048,114					-6,98	-2,8%	1050,683	1050,485	1048,359	2,13	752.129,559	8.180.737,128	1050,672	2,8%	6,60						9,76	1048,565
89+0.000	9,62	1048,595					-7,17	-5,6%	1051,035	1050,631	1048,867	1,76	752.148,400	8.180.730,425	1051,003	5,6%	6,60						9,55	1049,036
90+0.000	9,09	1049,083					-7,20	-6,0%	1051,209	1050,777	1049,474	1,30	752.167,646	8.180.725,002	1051,173	6,0%	6,60						9,14	1049,482
91+0.000	8,96	1049,315					-7,20	-6,0%	1051,355	1050,923	1049,750	1,17	752.187,230	8.180.720,966	1051,319	6,0%	6,60						8,80	1049,850
92+0.000	8,39	1049,844					-7,20	-6,0%	1051,501	1051,069	1049,861	1,21	752.207,052	8.180.718,338	1051,465	6,0%	6,60						8,15	1050,434
93+0.000	8,25	1050,082					-7,20	-6,0%	1051,647	1051,215	1050,221	0,99	752.227,012	8.180.717,132	1051,611	6,0%	6,60						8,21	1050,537
94+0.000	7,96	1050,420					-7,20	-6,0%	1051,793	1051,361	1050,634	0,73	752.247,006	8.180.717,353	1051,757	6,0%	6,60						7,62	1051,074
95+0.000	7,64	1050,782					-7,20	-6,0%	1051,939	1051,507	1051,136	0,37	752.266,934	8.180.719,000	1051,903	6,0%	6,60						7,63	1051,216
96+0.000	7,25	1051,271					-7,20	-6,0%	1052,085	1051,653	1051,406	0,25	752.286,693	8.180.722,065	1052,049	6,0%	6,60						7,39	1051,523
97+0.000	7,31	1051,503					-7,22	-5,4%	1052,186	1051,799	1051,676	0,12	752.306,184	8.180.726,533	1052,153	5,4%	6,60						7,21	1051,748
98+0.000	7,13	1051,734					-7,10	-2,6%	1052,123	1051,941	1051,815	0,13	752.325,339	8.180.732,275	1052,111	2,6%	6,60						6,96	1051,872
99+0.000	6,99	1051,932					-6,98	-2,0%	1052,214	1052,074	1051,948	0,13	752.344,187	8.180.738,960	1052,059	-0,2%	6,60						6,73	1051,973
100+0.000	6,92	1052,037					-6,88	-2,0%	1052,334	1052,196	1052,015	0,18	752.362,816	8.180.746,237	1052,064	-2,0%	6,60						6,66	1052,025
101+0.000	6,70	1052,113					-6,60	-2,0%	1052,441	1052,309	1052,101	0,21	752.381,342	8.180.753,772	1052,177	-2,0%	6,60						6,75	1052,075
102+0.000	6,82	1052,137					-6,60	-2,0%	1052,547	1052,415	1052,112	0,30	752.399,858	8.180.761,332	1052,283	-2,0%	6,60						6,88	1052,096
103+0.000	6,74	1052,294					-6,60	-2,0%	1052,653	1052,521	1052,179	0,34	752.418,374	8.180.768,891	1052,389	-2,0%	6,60						7,01	1052,116
104+0.000	7,04	1052,202					-6,60	-2,0%	1052,759	1052,627	1052,151	0,48	752.436,891	8.180.776,451	1052,495	-2,0%	6,60						7,17	1052,117
105+0.000	7,06	1052,293					-6,60	-2,0%	1052,865	1052,733	1052,172	0,56	752.455,407	8.180.784,011	1052,601	-2,0%	6,60						7,29	1052,138
106+0.000	7,11	1052,364					-6,60	-2,0%	1052,971	1052,839	1052,151	0,69	752.473,923	8.180.791,571	1052,707	-2,0%	6,60						7,54	1052,077
107+0.000	7,24	1052,388					-6,60	-2,0%	1053,077	1052,945	1052,227	0,72	752.492,439	8.180.799,131	1052,813	-2,0%	6,60						7,71	1052,070
108+0.000	7,39	1052,394					-6,60	-2,0%	1053,183	1053,051	1052,191	0,86	752.510,955	8.180.806,691	1052,919	-2,0%	6,60						7,89	1052,059
109+0.000	7,43	1052,469					-6,60	-2,0%	1053,288	1053,156	1052,237	0,92	752.529,472	8.180.814,251	1053,024	-2,0%	6,60						7,96	1052,118
110+0.000	7,48	1052,543					-6,60	-2,0%	1053,394	1053,262	1052,437	0,83	752.547,988	8.180.821,810	1053,130	-2,0%	6,60						7,98	1052,212
111+0.000	7,65	1052,533					-6,60	-2,0%	1053,500	1053,368	1052,346	1,02	752.566,504	8.180.829,370	1053,236	-2,0%	6,60						8,16	1052,199
112+0.000	7,81	1052,535					-6,60	-2,0%	1053,606	1053,474	1052,438	1,04	752.585,020	8.180.836,930	1053,342	-2,0%	6,60						8,24	1052,251
113+0.000	7,94	1052,555					-6,60	-2,0%	1053,712	1053,580	1052,473	1,11	752.603,536	8.180.844,490	1053,448	-2,0%	6,60						8,19	1052,388
114+0.000	8,02	1052,607					-6,60	-2,0%	1053,818	1053,686	1052,650	1,04	752.622,052	8.180.852,050	1053,554	-2,0%	6,60						8,17	1052,507
115+0.000	8,04	1052,700					-6,60	-2,0%	1053,924	1053,792	1052,740	1,05	752.640,569	8.180.859,610	1053,660	-2,0%	6,60						8,05	1052,693
116+0.000	8,19	1052,706					-6,60	-2,0%	1054,030	1053,898	1052,836	1,06	752.659,085	8.180.867,169	1053,766	-2,0%	6,60						8,01	1052,828
117+0.000	7,97	1052,960					-6,60	-2,0%	1054,136	1054,004	1053,145	0,86	752.677,601	8.180.874,729	1053,872	-2,0%	6,60						7,84	1053,047
118+0.000	8,25	1052,878					-6,60	-2,0%	1054,242	1054,110	1053,127	0,98	752.696,117	8.180.882,289	1053,978	-2,0%	6,60						7,92	1053,100
119+0.000	8,16	1053,046					-6,60	-2,0%	1054,348	1054,216	1053,322	0,89	752.714,633	8.180.889,849	1054,084	-2,0%	6,60						7,91	1053,213
120+0.000	8,31	1053,050					-6,60	-2,0%	1054,454	1054,322	1053,292	1,03	752.733,149	8.180.897,409	1054,190	-2,0%	6,60						7,97	1053,278
121+0.000	8,31	1053,156					-6,60	-2,0%	1054,560	1054,428	1053,278	1,15	752.751,666	8.180.904,969	1054,296	-2,0%	6,60						8,07	1053,317
122+0.000	8,22	1053,324					-6,60	-2,0%	1054,666	1054,534	1053,343	1,19	752.770,182	8.180.912,529	1054,402	-2,0%	6,60						8,06	1053,427



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4			5				6			7				8		9	
123+0.000	8,18	1053,452					-6,60	-2,0%	1054,771	1054,639	1053,440	1,20	752.788,698	8.180.920,088	1054,507	-2,0%	6,60						8,24	1053,414
124+0.000	8,25	1053,513					-6,60	-2,0%	1054,877	1054,745	1053,488	1,26	752.807,214	8.180.927,648	1054,613	-2,0%	6,60						8,22	1053,531
125+0.000	8,38	1053,534					-6,60	-2,0%	1054,983	1054,851	1053,722	1,13	752.825,730	8.180.935,208	1054,719	-2,0%	6,60						8,33	1053,568
126+0.000	8,31	1053,684					-6,60	-2,0%	1055,089	1054,957	1053,835	1,12	752.844,246	8.180.942,768	1054,825	-2,0%	6,60						8,22	1053,746
127+0.000	8,28	1053,810					-6,60	-2,0%	1055,195	1055,063	1053,741	1,32	752.862,763	8.180.950,328	1054,931	-2,0%	6,60						8,43	1053,710
128+0.000	8,35	1053,869					-6,60	-2,0%	1055,301	1055,169	1053,869	1,30	752.881,279	8.180.957,888	1055,037	-2,0%	6,60						8,37	1053,860
129+0.000	8,15	1054,107					-6,60	-2,0%	1055,407	1055,275	1053,930	1,35	752.899,795	8.180.965,448	1055,143	-2,0%	6,60						8,44	1053,916
130+0.000	8,30	1054,119					-6,60	-2,0%	1055,513	1055,381	1054,091	1,29	752.918,311	8.180.973,007	1055,249	-2,0%	6,60						8,49	1053,989
131+0.000	8,37	1054,174					-6,60	-2,0%	1055,619	1055,487	1054,222	1,27	752.936,827	8.180.980,567	1055,355	-2,0%	6,60						8,46	1054,118
132+0.000	8,32	1054,313					-6,60	-2,0%	1055,725	1055,593	1054,276	1,32	752.955,343	8.180.988,127	1055,461	-2,0%	6,60						8,39	1054,265
133+0.000	8,30	1054,434					-6,60	-2,0%	1055,831	1055,699	1054,453	1,25	752.973,865	8.180.995,674	1055,565	-2,0%	6,69						8,21	1054,547
134+0.000	8,27	1054,652					-6,60	-0,6%	1055,847	1055,805	1054,512	1,29	752.992,460	8.181.003,036	1055,668	-2,0%	6,87						8,39	1054,655
135+0.000	8,34	1054,891					-6,60	2,1%	1055,771	1055,911	1054,708	1,20	753.011,230	8.181.009,940	1055,763	-2,1%	6,99						8,34	1054,861
136+0.000	7,69	1055,609					-6,60	4,9%	1055,695	1056,017	1055,097	0,92	753.030,255	8.181.016,102	1055,667	-4,9%	7,17						8,08	1055,057
137+0.000	8,47	1055,257					-6,60	5,8%	1055,739	1056,122	1055,278	0,84	753.049,580	8.181.021,244	1055,704	-5,8%	7,20						7,83	1055,286
138+0.000	8,52	1055,328					-6,60	5,8%	1055,845	1056,228	1055,633	0,60	753.069,173	8.181.025,243	1055,810	-5,8%	7,20						7,57	1055,564
139+0.000	8,03	1055,763					-6,60	5,8%	1055,951	1056,334	1055,758	0,58	753.088,968	8.181.028,082	1055,916	-5,8%	7,20						7,53	1055,694
140+0.000	7,85	1055,993					-6,60	5,8%	1056,057	1056,440	1055,900	0,54	753.108,895	8.181.029,753	1056,022	-5,8%	7,20						7,50	1055,821
141+0.000	7,75	1056,162					-6,60	5,8%	1056,163	1056,546	1056,082	0,46	753.128,886	8.181.030,250	1056,128	-5,8%	7,20						7,42	1055,981
142+0.000	7,76	1056,264					-6,60	5,8%	1056,269	1056,652	1056,236	0,42	753.148,871	8.181.029,570	1056,234	-5,8%	7,20						7,28	1056,184
143+0.000	7,73	1056,388					-6,60	5,8%	1056,375	1056,758	1056,336	0,42	753.168,782	8.181.027,717	1056,340	-5,8%	7,20						7,32	1056,261
144+0.000	7,51	1056,626					-6,60	5,8%	1056,465	1056,848	1056,457	0,39	753.188,550	8.181.024,697	1056,430	-5,8%	7,20						7,36	1056,321
145+0.000	7,74	1056,528					-6,60	5,8%	1056,523	1056,906	1056,433	0,47	753.208,106	8.181.020,519	1056,488	-5,8%	7,20						7,39	1056,365
146+0.000	7,72	1056,572					-6,60	5,8%	1056,551	1056,934	1056,530	0,40	753.227,382	8.181.015,199	1056,516	-5,8%	7,20						7,35	1056,418
147+0.000	7,75	1056,549					-6,60	5,8%	1056,547	1056,930	1056,463	0,47	753.246,313	8.181.008,755	1056,512	-5,8%	7,20						7,42	1056,367
148+0.000	7,72	1056,463					-6,60	4,7%	1056,586	1056,896	1056,372	0,52	753.264,833	8.181.001,212	1056,559	-4,7%	7,16						7,50	1056,330
149+0.000	7,60	1056,292					-6,60	1,9%	1056,703	1056,831	1056,186	0,64	753.282,933	8.180.992,708	1056,691	-2,0%	6,98						7,89	1056,086
150+0.000	7,40	1056,147					-6,60	-0,8%	1056,788	1056,734	1056,070	0,66	753.300,695	8.180.983,518	1056,597	-2,0%	6,86						7,83	1055,953
151+0.000	7,33	1055,990					-6,60	-2,0%	1056,739	1056,607	1055,960	0,65	753.318,237	8.180.973,911	1056,473	-2,0%	6,68						7,61	1055,849
152+0.000	7,40	1055,783					-6,60	-2,0%	1056,581	1056,449	1055,804	0,64	753.335,691	8.180.964,146	1056,317	-2,0%	6,60						7,56	1055,675
153+0.000	7,50	1055,526					-6,60	-2,0%	1056,392	1056,260	1055,472	0,79	753.353,140	8.180.954,372	1056,128	-2,0%	6,60						7,60	1055,460
154+0.000	7,58	1055,254					-6,60	-2,0%	1056,171	1056,039	1055,364	0,67	753.370,589	8.180.944,598	1055,907	-2,0%	6,60						7,58	1055,254
155+0.000	7,68	1054,934					-6,60	-2,0%	1055,920	1055,788	1055,110	0,68	753.388,038	8.180.934,824	1055,656	-2,0%	6,60						7,57	1055,007
156+0.000	8,06	1054,404					-6,60	-2,0%	1055,638	1055,506	1054,600	0,91	753.405,487	8.180.925,049	1055,374	-2,0%	6,60						7,84	1054,550
157+0.000	8,36	1053,888					-6,60	-2,0%	1055,325	1055,193	1054,218	0,97	753.422,936	8.180.915,275	1055,061	-2,0%	6,60						7,94	1054,165
158+0.000	8,23	1053,631					-6,60	-2,0%	1054,981	1054,849	1053,668	1,18	753.440,385	8.180.905,501	1054,717	-2,0%	6,60						8,15	1053,681
159+0.000	8,77	1052,911					-6,60	-2,0%	1054,622	1054,490	1053,225	1,27	753.457,834	8.180.895,727	1054,358	-2,0%	6,60						8,20	1053,292
160+0.000	9,42	1052,119					-6,60	-2,0%	1054,263	1054,131	1052,762	1,37	753.475,283	8.180.885,953	1053,999	-2,0%	6,60						8,52	1052,717
161+0.000	9,38	1051,789					-6,60	-2,0%	1053,904	1053,772	1052,220	1,55	753.492,732	8.180.876,179	1053,640	-2,0%	6,60						8,64	1052,284
162+0.000	9,62	1051,266					-6,60	-2,0%	1053,546	1053,414	1051,932	1,48	753.510,181	8.180.866,405	1053,282	-2,0%	6,60						8,53	1051,995
163+0.000	9,51	1050,981					-6,60	-2,0%	1053,187	1053,055	1051,589	1,47	753.527,630	8.180.856,631	1052,923	-2,0%	6,60						8,46	1051,682



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5				6			7		8		9	
164+0.000	9,64	1050,535					-6,60	-2,0%	1052,828	1052,696	1051,311	1,38	753.545,079	8.180.846,857	1052,564	-2,0%	6,60						8,35	1051,400
165+0.000	9,92	1049,992					-6,60	-2,0%	1052,469	1052,337	1050,617	1,72	753.562,528	8.180.837,083	1052,205	-2,0%	6,60						8,75	1050,773
166+0.000	10,81	1049,041					-6,60	-2,0%	1052,113	1051,981	1049,675	2,31	753.579,977	8.180.827,308	1051,849	-2,0%	6,60						9,51	1049,911
167+0.000	11,06	1048,570					-6,60	-2,0%	1051,809	1051,677	1048,988	2,69	753.597,426	8.180.817,534	1051,545	-2,0%	6,60						9,85	1049,378
168+0.000	11,08	1048,326					-6,60	-2,0%	1051,574	1051,442	1048,613	2,83	753.614,875	8.180.807,760	1051,310	-2,0%	6,60						9,94	1049,087
169+0.000	10,90	1048,276					-6,60	-2,0%	1051,408	1051,276	1048,540	2,74	753.632,323	8.180.797,986	1051,144	-2,0%	6,60						10,01	1048,872
170+0.000	10,78	1048,260					-6,60	-2,0%	1051,311	1051,179	1048,405	2,77	753.649,772	8.180.788,212	1051,047	-2,0%	6,60						9,82	1048,900
171+0.000	10,75	1048,254					-6,60	-2,0%	1051,283	1051,151	1048,527	2,62	753.667,221	8.180.778,438	1051,019	-2,0%	6,60						9,68	1048,969
172+0.000	10,21	1048,655					-6,60	-2,0%	1051,324	1051,192	1048,912	2,28	753.684,670	8.180.768,664	1051,060	-2,0%	6,60						9,27	1049,277
173+0.000	10,41	1048,629					-6,60	-2,0%	1051,430	1051,298	1049,367	1,93	753.702,119	8.180.758,890	1051,166	-2,0%	6,60						8,89	1049,638
174+0.000	9,56	1049,319					-6,60	-2,0%	1051,555	1051,423	1050,036	1,39	753.719,568	8.180.749,116	1051,291	-2,0%	6,60						8,39	1050,095
175+0.000	9,00	1049,814					-6,60	-2,0%	1051,679	1051,547	1050,486	1,06	753.737,017	8.180.739,341	1051,415	-2,0%	6,60						7,91	1050,541
176+0.000	8,54	1050,243					-6,60	-2,0%	1051,803	1051,671	1050,804	0,87	753.754,466	8.180.729,567	1051,539	-2,0%	6,60						7,76	1050,768
177+0.000	8,06	1050,690					-6,60	-2,0%	1051,927	1051,795	1050,947	0,85	753.771,915	8.180.719,793	1051,663	-2,0%	6,60						7,65	1050,962
178+0.000	7,98	1050,866					-6,60	-2,0%	1052,051	1051,919	1051,130	0,79	753.789,364	8.180.710,019	1051,787	-2,0%	6,60						7,45	1051,219
179+0.000	7,91	1051,040					-6,60	-2,0%	1052,175	1052,043	1051,438	0,60	753.806,813	8.180.700,245	1051,911	-2,0%	6,60						7,49	1051,319
180+0.000	7,65	1051,280					-6,60	-2,0%	1052,242	1052,110	1051,519	0,59	753.824,262	8.180.690,471	1051,978	-2,0%	6,60						7,47	1051,400
181+0.000	7,96	1051,040					-6,60	-2,0%	1052,212	1052,080	1051,325	0,75	753.841,711	8.180.680,697	1051,948	-2,0%	6,60						7,67	1051,234
182+0.000	8,14	1050,799					-6,60	-2,0%	1052,087	1051,955	1050,998	0,96	753.859,160	8.180.670,923	1051,823	-2,0%	6,60						7,90	1050,956
183+0.000	8,05	1050,692					-6,60	-2,0%	1051,924	1051,792	1050,821	0,97	753.876,609	8.180.661,149	1051,660	-2,0%	6,60						7,82	1050,847
184+0.000	7,82	1050,682					-6,60	-2,0%	1051,760	1051,628	1050,710	0,92	753.894,058	8.180.651,374	1051,496	-2,0%	6,60						7,89	1050,636
185+0.000	7,85	1050,496					-6,60	-2,0%	1051,596	1051,464	1050,564	0,90	753.911,507	8.180.641,600	1051,332	-2,0%	6,60						7,72	1050,585
186+0.000	7,96	1050,263					-6,60	-2,0%	1051,432	1051,300	1050,513	0,79	753.928,956	8.180.631,826	1051,168	-2,0%	6,60						7,68	1050,445
187+0.000	7,68	1050,282					-6,60	-2,0%	1051,268	1051,136	1050,464	0,67	753.946,405	8.180.622,052	1051,004	-2,0%	6,60						7,57	1050,361
188+0.000	7,54	1050,211					-6,60	-2,0%	1051,104	1050,972	1050,315	0,66	753.963,854	8.180.612,278	1050,840	-2,0%	6,60						7,53	1050,223
189+0.000	7,77	1049,896					-6,60	-2,0%	1050,940	1050,808	1050,101	0,71	753.981,303	8.180.602,504	1050,676	-2,0%	6,60						7,52	1050,065
190+0.000	7,51	1049,903					-6,60	-2,0%	1050,776	1050,644	1049,978	0,67	753.998,752	8.180.592,730	1050,512	-2,0%	6,60						7,50	1049,912
191+0.000	7,55	1049,717					-6,60	-2,0%	1050,612	1050,480	1049,883	0,60	754.016,201	8.180.582,956	1050,348	-2,0%	6,60						7,19	1049,953
192+0.000	7,39	1049,658					-6,60	-2,0%	1050,448	1050,316	1049,895	0,42	754.033,650	8.180.573,182	1050,184	-2,0%	6,60						7,00	1049,915
193+0.000	7,57	1049,375					-6,60	-2,0%	1050,285	1050,153	1049,708	0,44	754.051,099	8.180.563,407	1050,021	-2,0%	6,60						7,11	1049,680
194+0.000	7,47	1049,274					-6,60	-2,0%	1050,121	1049,989	1049,479	0,51	754.068,548	8.180.553,633	1049,857	-2,0%	6,60						7,21	1049,448
195+0.000	7,90	1048,828					-6,60	-2,0%	1049,957	1049,825	1049,195	0,63	754.085,997	8.180.543,859	1049,693	-2,0%	6,60						7,41	1049,151
196+0.000	7,93	1048,643					-6,60	-2,0%	1049,793	1049,661	1048,870	0,79	754.103,446	8.180.534,085	1049,529	-2,0%	6,60						7,65	1048,826
197+0.000	7,88	1048,513					-6,60	-2,0%	1049,629	1049,497	1048,506	0,99	754.120,895	8.180.524,311	1049,365	-2,0%	6,60						7,95	1048,467
198+0.000	7,79	1048,407					-6,60	-2,0%	1049,465	1049,333	1048,259	1,07	754.138,344	8.180.514,537	1049,201	-2,0%	6,60						7,92	1048,323
199+0.000	7,72	1048,291					-6,60	-2,0%	1049,301	1049,169	1048,120	1,05	754.155,793	8.180.504,763	1049,037	-2,0%	6,60						8,06	1048,067
200+0.000	7,55	1048,240					-6,60	-2,0%	1049,137	1049,005	1048,046	0,96	754.173,242	8.180.494,989	1048,873	-2,0%	6,60						8,03	1047,922
201+0.000	7,41	1048,168					-6,60	-2,0%	1048,973	1048,841	1048,243	0,60	754.190,691	8.180.485,215	1048,709	-2,0%	6,60						7,62	1048,028
202+0.000	7,19	1048,187					-6,60	-2,0%	1048,843	1048,711	1048,475	0,24	754.208,140	8.180.475,440	1048,579	-2,0%	6,60						7,20	1048,182
203+0.000	7,19	1048,124					-6,60	-2,0%	1048,779	1048,647	1048,594	0,05	754.225,589	8.180.465,666	1048,515	-2,0%	6,60						7,66	1047,810
204+0.000	7,22	1048,106					-6,60	-2,0%	1048,783	1048,651	1048,247	0,40	754.243,038	8.180.455,892	1048,519	-2,0%	6,60						7,06	1048,213



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
205+0.000	7,31	1048,114					-6,60	-2,0%	1048,852	1048,720	1048,143	0,58	754.260,487	8.180.446,118	1048,588	-2,0%	6,60						7,55	1047,952
206+0.000	7,39	1048,166					-6,60	-2,0%	1048,955	1048,823	1048,569	0,25	754.277,936	8.180.436,344	1048,691	-2,0%	6,60						7,92	1047,811
207+0.000	7,57	1048,149					-6,60	-2,0%	1049,058	1048,926	1047,992	0,93	754.295,385	8.180.426,570	1048,794	-2,0%	6,60						8,12	1047,784
208+0.000	7,87	1048,050					-6,60	-2,0%	1049,161	1049,029	1047,970	1,06	754.312,834	8.180.416,796	1048,897	-2,0%	6,60						8,38	1047,708
209+0.000	7,83	1048,177					-6,60	-2,0%	1049,264	1049,132	1048,011	1,12	754.330,283	8.180.407,022	1049,000	-2,0%	6,60						8,59	1047,675
210+0.000	8,01	1048,162					-6,60	-2,0%	1049,367	1049,235	1047,981	1,25	754.347,732	8.180.397,248	1049,103	-2,0%	6,60						8,63	1047,752
211+0.000	8,08	1048,221					-6,60	-2,0%	1049,470	1049,338	1048,075	1,26	754.365,181	8.180.387,474	1049,206	-2,0%	6,60						8,71	1047,797
212+0.000	8,06	1048,338					-6,60	-2,0%	1049,572	1049,440	1048,236	1,20	754.382,630	8.180.377,699	1049,308	-2,0%	6,60						8,61	1047,971
213+0.000	8,13	1048,394					-6,60	-2,0%	1049,675	1049,543	1048,393	1,15	754.400,078	8.180.367,925	1049,411	-2,0%	6,60						8,34	1048,252
214+0.000	8,08	1048,531					-6,60	-2,0%	1049,778	1049,646	1048,666	0,98	754.417,527	8.180.358,151	1049,514	-2,0%	6,60						7,98	1048,596
215+0.000	7,99	1048,692					-6,60	-2,0%	1049,881	1049,749	1048,833	0,92	754.434,976	8.180.348,377	1049,617	-2,0%	6,60						7,99	1048,692
216+0.000	7,89	1048,862					-6,60	-2,0%	1049,984	1049,852	1049,059	0,79	754.452,425	8.180.338,603	1049,720	-2,0%	6,60						7,89	1048,857
217+0.000	7,79	1049,031					-6,60	-2,0%	1050,087	1049,955	1049,185	0,77	754.469,874	8.180.328,829	1049,823	-2,0%	6,60						7,82	1049,007
218+0.000	7,67	1049,214					-6,60	-2,0%	1050,190	1050,058	1049,392	0,67	754.487,323	8.180.319,055	1049,926	-2,0%	6,60						7,66	1049,221
219+0.000	7,47	1049,446					-6,60	-2,0%	1050,293	1050,161	1049,526	0,63	754.504,772	8.180.309,281	1050,029	-2,0%	6,60						7,70	1049,295
220+0.000	7,66	1049,428					-6,60	-2,0%	1050,395	1050,263	1049,460	0,80	754.522,221	8.180.299,507	1050,131	-2,0%	6,60						7,85	1049,302
221+0.000	7,79	1049,444					-6,60	-2,0%	1050,498	1050,366	1049,376	0,99	754.539,670	8.180.289,732	1050,234	-2,0%	6,60						8,08	1049,245
222+0.000	8,00	1049,407					-6,60	-2,0%	1050,601	1050,469	1049,278	1,19	754.557,119	8.180.279,958	1050,337	-2,0%	6,60						8,51	1049,067
223+0.000	8,30	1049,305					-6,60	-2,0%	1050,704	1050,572	1049,094	1,48	754.574,568	8.180.270,184	1050,440	-2,0%	6,60						8,90	1048,907
224+0.000	8,75	1049,111					-6,60	-2,0%	1050,807	1050,675	1048,991	1,68	754.592,017	8.180.260,410	1050,543	-2,0%	6,60						9,19	1048,815
225+0.000	8,90	1049,114					-6,60	-2,0%	1050,910	1050,778	1048,942	1,84	754.609,466	8.180.250,636	1050,646	-2,0%	6,60						9,54	1048,685
226+0.000	9,04	1049,125					-6,60	-2,0%	1051,013	1050,881	1048,956	1,93	754.626,915	8.180.240,862	1050,749	-2,0%	6,60						9,65	1048,713
227+0.000	9,25	1049,080					-6,60	-2,0%	1051,113	1050,981	1048,927	2,05	754.644,364	8.180.231,088	1050,849	-2,0%	6,60						9,83	1048,698
228+0.000	9,46	1049,013					-6,60	-2,0%	1051,186	1051,054	1048,898	2,16	754.661,813	8.180.221,314	1050,922	-2,0%	6,60						9,81	1048,781
229+0.000	9,42	1049,079					-6,60	-2,0%	1051,223	1051,091	1048,897	2,19	754.679,262	8.180.211,540	1050,959	-2,0%	6,60						9,92	1048,746
230+0.000	9,42	1049,078					-6,60	-2,0%	1051,224	1051,092	1048,978	2,11	754.696,711	8.180.201,765	1050,960	-2,0%	6,60						9,74	1048,866
231+0.000	9,23	1049,171					-6,60	-2,0%	1051,190	1051,058	1049,014	2,04	754.714,160	8.180.191,991	1050,926	-2,0%	6,60						9,58	1048,942
232+0.000	9,31	1049,054					-6,60	-2,0%	1051,121	1050,989	1049,163	1,83	754.731,609	8.180.182,217	1050,857	-2,0%	6,60						9,38	1049,006
233+0.000	9,30	1048,951					-6,60	-2,0%	1051,018	1050,886	1049,125	1,76	754.749,058	8.180.172,443	1050,754	-2,0%	6,60						9,27	1048,973
234+0.000	9,78	1048,523					-6,60	-2,0%	1050,908	1050,776	1048,879	1,90	754.766,507	8.180.162,669	1050,644	-2,0%	6,60						9,21	1048,907
235+0.000	10,19	1048,139					-6,60	-2,0%	1050,797	1050,665	1048,362	2,30	754.783,956	8.180.152,895	1050,533	-2,0%	6,60						9,55	1048,569
236+0.000	10,44	1047,864					-6,60	-2,0%	1050,687	1050,555	1047,662	2,89	754.801,405	8.180.143,121	1050,423	-2,0%	6,60						10,18	1048,038
237+0.000	10,89	1047,451					-6,60	-2,0%	1050,577	1050,445	1047,654	2,79	754.818,854	8.180.133,347	1050,313	-2,0%	6,60						10,35	1047,812
238+0.000	10,30	1047,739					-6,60	-2,0%	1050,467	1050,335	1047,902	2,43	754.836,303	8.180.123,573	1050,203	-2,0%	6,60						10,01	1047,927
239+0.000	9,62	1048,080					-6,60	-2,0%	1050,360	1050,228	1048,311	1,92	754.853,752	8.180.113,798	1050,096	-2,0%	6,60						8,61	1048,756
240+0.000	9,02	1048,418					-6,60	-2,0%	1050,297	1050,165	1048,876	1,29	754.871,201	8.180.104,024	1050,033	-2,0%	6,60						7,54	1049,407
241+0.000	8,01	1049,086					-6,60	-2,0%	1050,287	1050,155	1049,727	0,43	754.888,650	8.180.094,250	1050,023	-2,0%	6,60						6,62	1050,046
242+0.000	6,90	1049,865					-6,60	-2,0%	1050,331	1050,199	1050,310	-0,11	754.906,099	8.180.084,476	1050,067	-2,0%	6,60						7,12	1050,589
243+0.000	7,04	1050,458					-6,74	-2,0%	1050,431	1050,296	1050,905	-0,61	754.923,569	8.180.074,740	1050,164	-2,0%	6,60						7,50	1051,063
244+0.000	7,42	1050,824					-6,90	-2,0%	1050,584	1050,446	1051,061	-0,62	754.941,174	8.180.065,251	1050,457	0,2%	6,60						7,31	1051,163
245+0.000	7,65	1051,049					-7,05	-2,9%	1050,853	1050,647	1050,996	-0,35	754.959,044	8.180.056,273	1050,840	2,9%	6,60						6,86	1051,104



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9															
246+0.000	8,12	1051,367					-7,20	-5,7%	1051,267	1050,857	1050,984	-0,13	754.977,288	8.180.048,081	1051,232	5,7%	6,60						6,94	1051,004
247+0.000	7,63	1051,078					-7,20	-5,8%	1051,486	1051,068	1051,083	-0,02	754.995,960	8.180.040,925	1051,451	5,8%	6,60						7,23	1051,034
248+0.000	7,23	1050,890					-7,20	-5,8%	1051,697	1051,279	1051,133	0,15	755.015,021	8.180.034,878	1051,662	5,8%	6,60						7,38	1051,145
249+0.000	7,27	1051,139					-7,20	-5,8%	1051,907	1051,489	1051,369	0,12	755.034,405	8.180.029,963	1051,872	5,8%	6,60						7,29	1051,412
250+0.000	8,58	1050,364					-7,20	-5,8%	1052,118	1051,700	1050,752	0,95	755.054,044	8.180.026,196	1052,083	5,8%	6,60						7,83	1051,265
251+0.000	9,17	1050,182					-7,20	-5,8%	1052,329	1051,911	1050,521	1,39	755.073,871	8.180.023,590	1052,294	5,8%	6,60						8,63	1050,944
252+0.000	9,36	1050,265					-7,20	-5,8%	1052,539	1052,121	1050,613	1,51	755.093,816	8.180.022,154	1052,504	5,8%	6,60						8,92	1050,959
253+0.000	9,44	1050,423					-7,20	-5,8%	1052,750	1052,332	1050,816	1,52	755.113,812	8.180.021,893	1052,715	5,8%	6,60						8,90	1051,184
254+0.000	9,35	1050,695					-7,20	-5,8%	1052,960	1052,542	1051,076	1,47	755.133,788	8.180.022,808	1052,925	5,8%	6,60						8,49	1051,668
255+0.000	9,13	1051,050					-7,20	-5,8%	1053,171	1052,753	1051,428	1,32	755.153,676	8.180.024,896	1053,136	5,8%	6,60						8,95	1051,568
256+0.000	9,03	1051,326					-7,20	-5,8%	1053,382	1052,964	1051,877	1,09	755.173,406	8.180.028,149	1053,347	5,8%	6,60						8,82	1051,864
257+0.000	8,87	1051,645					-7,20	-5,8%	1053,592	1053,174	1052,014	1,16	755.192,912	8.180.032,557	1053,557	5,8%	6,60						8,64	1052,200
258+0.000	8,57	1052,055					-7,20	-5,8%	1053,803	1053,385	1052,074	1,31	755.212,124	8.180.038,104	1053,768	5,8%	6,60						8,53	1052,480
259+0.000	8,00	1052,647					-7,20	-5,8%	1054,014	1053,596	1052,439	1,16	755.230,977	8.180.044,770	1053,979	5,8%	6,60						8,31	1052,837
260+0.000	8,13	1052,771					-7,20	-5,8%	1054,224	1053,806	1052,986	0,82	755.249,406	8.180.052,534	1054,189	5,8%	6,60						7,99	1053,266
261+0.000	8,09	1053,052					-7,17	-4,9%	1054,368	1054,017	1053,255	0,76	755.267,347	8.180.061,366	1054,340	4,9%	6,60						7,60	1053,674
262+0.000	7,90	1053,474					-6,99	-2,1%	1054,376	1054,228	1053,598	0,63	755.284,793	8.180.071,140	1054,368	2,1%	6,60						7,07	1054,055
263+0.000	8,10	1053,479					-6,87	-2,0%	1054,575	1054,438	1053,866	0,57	755.301,844	8.180.081,592	1054,396	-0,6%	6,60						6,64	1054,372
264+0.000	7,28	1054,120					-6,69	-2,0%	1054,783	1054,649	1053,879	0,77	755.318,633	8.180.092,460	1054,517	-2,0%	6,60						6,65	1054,567
265+0.000	7,14	1054,371					-6,60	-2,0%	1054,991	1054,859	1054,023	0,84	755.335,314	8.180.103,494	1054,727	-2,0%	6,60						6,67	1054,679
266+0.000	7,11	1054,597					-6,60	-2,0%	1055,202	1055,070	1054,273	0,80	755.351,987	8.180.114,540	1054,938	-2,0%	6,60						6,83	1054,783
267+0.000	7,34	1054,655					-6,60	-2,0%	1055,413	1055,281	1054,558	0,72	755.368,660	8.180.125,586	1055,149	-2,0%	6,60						7,11	1054,810
268+0.000	7,25	1054,924					-6,60	-2,0%	1055,623	1055,491	1054,783	0,71	755.385,333	8.180.136,632	1055,359	-2,0%	6,60						7,04	1055,065
269+0.000	6,78	1055,450					-6,60	-2,0%	1055,834	1055,702	1055,672	0,03	755.402,006	8.180.147,678	1055,570	-2,0%	6,60						6,94	1055,343
270+0.000	7,10	1055,447					-6,60	-2,0%	1056,045	1055,913	1055,500	0,41	755.418,679	8.180.158,724	1055,781	-2,0%	6,60						7,00	1055,511
271+0.000	7,92	1055,114					-6,60	-2,0%	1056,255	1056,123	1055,477	0,65	755.435,351	8.180.169,771	1055,991	-2,0%	6,60						7,28	1055,536
272+0.000	7,83	1055,379					-6,60	-2,0%	1056,466	1056,334	1055,481	0,85	755.452,024	8.180.180,817	1056,202	-2,0%	6,60						7,55	1055,568
273+0.000	7,75	1055,647					-6,60	-2,0%	1056,677	1056,545	1055,635	0,91	755.468,697	8.180.191,863	1056,413	-2,0%	6,60						7,71	1055,673
274+0.000	8,08	1055,639					-6,60	-2,0%	1056,887	1056,755	1055,800	0,96	755.485,370	8.180.202,909	1056,623	-2,0%	6,60						7,76	1055,850
275+0.000	8,24	1055,739					-6,60	-2,0%	1057,098	1056,966	1056,016	0,95	755.502,043	8.180.213,955	1056,834	-2,0%	6,60						7,70	1056,098
276+0.000	8,33	1055,893					-6,60	-2,0%	1057,308	1057,176	1056,079	1,10	755.518,715	8.180.225,001	1057,044	-2,0%	6,60						7,42	1056,497
277+0.000	8,20	1056,186					-6,60	-2,0%	1057,519	1057,387	1056,255	1,13	755.535,388	8.180.236,047	1057,255	-2,0%	6,60						7,32	1056,775
278+0.000	7,99	1056,536					-6,60	-2,0%	1057,730	1057,598	1056,533	1,07	755.552,061	8.180.247,093	1057,466	-2,0%	6,60						7,47	1056,888
279+0.000	7,83	1056,855					-6,60	-2,0%	1057,940	1057,808	1056,708	1,10	755.568,734	8.180.258,140	1057,676	-2,0%	6,60						7,29	1057,218
280+0.000	7,82	1057,077					-6,60	-2,0%	1058,151	1058,019	1056,979	1,04	755.585,407	8.180.269,186	1057,887	-2,0%	6,60						7,19	1057,491
281+0.000	7,69	1057,371					-6,60	-2,0%	1058,362	1058,230	1057,295	0,93	755.602,080	8.180.280,232	1058,098	-2,0%	6,60						7,09	1057,773
282+0.000	7,46	1057,735					-6,60	-2,0%	1058,572	1058,440	1057,587	0,85	755.618,752	8.180.291,278	1058,308	-2,0%	6,60						6,97	1058,063
283+0.000	7,35	1058,022					-6,60	-2,0%	1058,783	1058,651	1057,970	0,68	755.635,425	8.180.302,324	1058,519	-2,0%	6,60						6,84	1058,360
284+0.000	7,32	1058,247					-6,60	-2,0%	1058,994	1058,862	1058,116	0,75	755.652,098	8.180.313,370	1058,730	-2,0%	6,60						6,99	1058,469
285+0.000	7,25	1058,507					-6,60	-2,0%	1059,204	1059,072	1058,420	0,65	755.668,771	8.180.324,416	1058,940	-2,0%	6,60						6,89	1058,749
286+0.000	6,99	1058,892					-6,60	-2,0%	1059,415	1059,283	1058,679	0,60	755.685,444	8.180.335,462	1059,151	-2,0%	6,60						6,79	1059,024



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
287+0.000	7,11	1059,019					-6,60	-2,0%	1059,625	1059,493	1058,924	0,57	755.702,117	8.180.346,509	1059,361	-2,0%	6,60						6,97	1059,116
288+0.000	7,04	1059,279					-6,60	-2,0%	1059,836	1059,704	1059,108	0,60	755.718,789	8.180.357,555	1059,572	-2,0%	6,60						7,26	1059,130
289+0.000	7,04	1059,492					-6,60	-2,0%	1060,047	1059,915	1059,386	0,53	755.735,462	8.180.368,601	1059,783	-2,0%	6,60						7,03	1059,495
290+0.000	7,01	1059,720					-6,60	-2,0%	1060,257	1060,125	1059,586	0,54	755.752,135	8.180.379,647	1059,993	-2,0%	6,60						6,85	1059,829
291+0.000	6,85	1060,035					-6,60	-2,0%	1060,468	1060,336	1059,950	0,39	755.768,808	8.180.390,693	1060,204	-2,0%	6,60						6,89	1060,011
292+0.000	8,44	1059,188					-6,60	-2,0%	1060,679	1060,547	1060,191	0,36	755.785,481	8.180.401,739	1060,415	-2,0%	6,60						6,82	1060,267
293+0.000	7,13	1060,272					-6,60	-2,0%	1060,889	1060,757	1060,078	0,68	755.802,153	8.180.412,785	1060,625	-2,0%	6,60						7,05	1060,325
294+0.000	7,60	1060,169					-6,60	-2,0%	1061,099	1060,967	1060,171	0,80	755.818,826	8.180.423,831	1060,835	-2,0%	6,60						7,15	1060,471
295+0.000	7,63	1060,340					-6,60	-2,0%	1061,287	1061,155	1060,337	0,82	755.835,499	8.180.434,878	1061,023	-2,0%	6,60						7,28	1060,567
296+0.000	7,71	1060,442					-6,60	-2,0%	1061,447	1061,315	1060,423	0,89	755.852,172	8.180.445,924	1061,183	-2,0%	6,60						7,30	1060,719
297+0.000	7,83	1060,492					-6,60	-2,0%	1061,578	1061,446	1060,457	0,99	755.868,845	8.180.456,970	1061,314	-2,0%	6,60						7,38	1060,795
298+0.000	7,86	1060,576					-6,60	-2,0%	1061,680	1061,548	1060,550	1,00	755.885,518	8.180.468,016	1061,416	-2,0%	6,60						7,40	1060,880
299+0.000	7,95	1060,587					-6,60	-2,0%	1061,754	1061,622	1060,630	0,99	755.902,190	8.180.479,062	1061,490	-2,0%	6,60						7,50	1060,891
300+0.000	8,12	1060,523					-6,60	-2,0%	1061,799	1061,667	1060,649	1,02	755.918,863	8.180.490,108	1061,535	-2,0%	6,60						7,57	1060,887
301+0.000	8,10	1060,549					-6,60	-2,0%	1061,816	1061,684	1060,561	1,12	755.935,536	8.180.501,154	1061,552	-2,0%	6,60						7,75	1060,788
302+0.000	8,16	1060,497					-6,60	-2,0%	1061,804	1061,672	1060,486	1,19	755.952,209	8.180.512,200	1061,540	-2,0%	6,60						7,79	1060,750
303+0.000	8,25	1060,398					-6,60	-2,0%	1061,763	1061,631	1060,400	1,23	755.968,882	8.180.523,247	1061,499	-2,0%	6,60						7,77	1060,721
304+0.000	8,27	1060,316					-6,60	-2,0%	1061,694	1061,562	1060,410	1,15	755.985,555	8.180.534,293	1061,430	-2,0%	6,60						7,80	1060,629
305+0.000	8,25	1060,229					-6,60	-2,0%	1061,596	1061,464	1060,161	1,30	756.002,227	8.180.545,339	1061,332	-2,0%	6,60						7,80	1060,532
306+0.000	8,31	1060,067					-6,60	-2,0%	1061,469	1061,337	1060,034	1,30	756.018,900	8.180.556,385	1061,205	-2,0%	6,60						7,79	1060,413
307+0.000	7,57	1060,400					-6,60	-2,0%	1061,314	1061,182	1060,224	0,96	756.035,573	8.180.567,431	1061,050	-2,0%	6,60						7,71	1060,309
308+0.000	8,09	1059,875					-6,60	-2,0%	1061,130	1060,998	1059,871	1,13	756.052,246	8.180.578,477	1060,866	-2,0%	6,60						7,74	1060,107
309+0.000	8,17	1059,609					-6,60	-2,0%	1060,917	1060,785	1059,642	1,14	756.068,919	8.180.589,523	1060,653	-2,0%	6,60						7,66	1059,948
310+0.000	8,00	1059,477					-6,60	-2,0%	1060,676	1060,544	1059,394	1,15	756.085,591	8.180.600,570	1060,412	-2,0%	6,60						7,47	1059,830
311+0.000	7,83	1059,322					-6,60	-2,0%	1060,406	1060,274	1059,163	1,11	756.102,264	8.180.611,616	1060,142	-2,0%	6,60						7,44	1059,583
312+0.000	7,70	1059,110					-6,60	-2,0%	1060,108	1059,976	1058,990	0,99	756.118,937	8.180.622,662	1059,844	-2,0%	6,60						7,40	1059,308
313+0.000	7,64	1058,824					-6,60	-2,0%	1059,781	1059,649	1058,822	0,83	756.135,610	8.180.633,708	1059,517	-2,0%	6,60						7,24	1059,090
314+0.000	7,44	1058,601					-6,60	-2,0%	1059,427	1059,295	1058,578	0,72	756.152,283	8.180.644,754	1059,163	-2,0%	6,60						7,06	1058,857
315+0.000	7,23	1058,379					-6,60	-2,0%	1059,065	1058,933	1058,263	0,67	756.168,956	8.180.655,800	1058,801	-2,0%	6,60						6,90	1058,602
316+0.000	6,98	1058,187					-6,60	-2,0%	1058,703	1058,571	1058,053	0,52	756.185,628	8.180.666,846	1058,439	-2,0%	6,60						6,85	1058,269
317+0.000	6,80	1058,273					-6,60	-2,0%	1058,341	1058,209	1057,672	0,54	756.202,301	8.180.677,892	1058,077	-2,0%	6,60						6,75	1057,978
318+0.000	6,99	1057,458					-6,60	-2,0%	1057,979	1057,847	1057,083	0,76	756.218,974	8.180.688,939	1057,715	-2,0%	6,60						6,64	1057,691
319+0.000	7,05	1057,052					-6,60	-2,0%	1057,617	1057,485	1056,796	0,69	756.235,647	8.180.699,985	1057,353	-2,0%	6,60						6,68	1057,437
320+0.000	6,89	1056,799					-6,60	-2,0%	1057,255	1057,123	1056,578	0,55	756.252,320	8.180.711,031	1056,991	-2,0%	6,60						6,74	1057,131
321+0.000	6,90	1056,431					-6,60	-2,0%	1056,893	1056,761	1056,105	0,66	756.268,993	8.180.722,077	1056,629	-2,0%	6,60						6,61	1056,620
322+0.000	7,01	1055,992					-6,60	-2,0%	1056,531	1056,399	1055,610	0,79	756.285,665	8.180.733,123	1056,267	-2,0%	6,60						6,67	1056,338
323+0.000	6,86	1055,735					-6,60	-2,0%	1056,169	1056,037	1055,133	0,90	756.302,338	8.180.744,169	1055,905	-2,0%	6,60						6,66	1055,967
324+0.000	6,91	1055,339					-6,60	-2,0%	1055,807	1055,675	1054,901	0,77	756.319,011	8.180.755,215	1055,543	-2,0%	6,60						6,64	1055,582
325+0.000	6,97	1054,938					-6,60	-2,0%	1055,445	1055,313	1054,546	0,77	756.335,684	8.180.766,261	1055,181	-2,0%	6,60						6,61	1055,195
326+0.000	7,05	1054,521					-6,60	-2,0%	1055,083	1054,951	1054,261	0,69	756.352,357	8.180.777,308	1054,819	-2,0%	6,60						6,66	1054,878
327+0.000	6,97	1054,214					-6,60	-2,0%	1054,721	1054,589	1054,186	0,40	756.369,029	8.180.788,354	1054,457	-2,0%	6,60						6,78	1054,639



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9															
328+0.000	7,17	1053,717					-6,60	-2,0%	1054,359	1054,227	1053,695	0,53	756.385,702	8.180.799,400	1054,095	-2,0%	6,60						6,62	1054,115
329+0.000	7,05	1053,432					-6,60	-2,0%	1053,997	1053,865	1053,551	0,31	756.402,375	8.180.810,446	1053,733	-2,0%	6,60						6,67	1053,684
330+0.000	7,03	1053,085					-6,60	-2,0%	1053,635	1053,503	1052,780	0,72	756.419,048	8.180.821,492	1053,371	-2,0%	6,60						6,79	1053,248
331+0.000	7,70	1052,276					-6,60	-2,0%	1053,273	1053,141	1052,037	1,10	756.435,721	8.180.832,538	1053,009	-2,0%	6,60						6,96	1052,770
332+0.000	7,42	1052,099					-6,60	-2,0%	1052,911	1052,779	1051,657	1,12	756.452,394	8.180.843,584	1052,647	-2,0%	6,60						7,04	1052,354
333+0.000	7,61	1051,613					-6,60	-2,0%	1052,549	1052,417	1051,337	1,08	756.469,066	8.180.854,630	1052,285	-2,0%	6,60						7,04	1051,994
334+0.000	7,82	1051,110					-6,60	-2,0%	1052,188	1052,056	1050,834	1,22	756.485,739	8.180.865,677	1051,924	-2,0%	6,60						7,23	1051,507
335+0.000	7,98	1050,645					-6,60	-2,0%	1051,826	1051,694	1050,544	1,15	756.502,412	8.180.876,723	1051,562	-2,0%	6,60						7,14	1051,199
336+0.000	8,03	1050,245					-6,60	-2,0%	1051,464	1051,332	1050,268	1,06	756.519,085	8.180.887,769	1051,200	-2,0%	6,60						7,22	1050,789
337+0.000	7,92	1049,955					-6,60	-2,0%	1051,102	1050,970	1050,027	0,94	756.535,758	8.180.898,815	1050,838	-2,0%	6,60						7,33	1050,353
338+0.000	7,96	1049,569					-6,60	-2,0%	1050,740	1050,608	1049,705	0,90	756.552,431	8.180.909,861	1050,476	-2,0%	6,60						7,33	1049,991
339+0.000	7,47	1049,531					-6,60	-2,0%	1050,378	1050,246	1049,456	0,79	756.569,103	8.180.920,907	1050,114	-2,0%	6,60						7,32	1049,633
340+0.000	7,29	1049,289					-6,60	-2,0%	1050,016	1049,884	1049,151	0,73	756.585,776	8.180.931,953	1049,752	-2,0%	6,60						7,38	1049,233
341+0.000	7,97	1048,475					-6,60	-2,0%	1049,654	1049,522	1048,323	1,20	756.602,449	8.180.942,999	1049,390	-2,0%	6,60						7,49	1048,795
342+0.000	8,02	1048,082					-6,60	-2,0%	1049,292	1049,160	1047,859	1,30	756.619,122	8.180.954,046	1049,028	-2,0%	6,60						7,53	1048,408
343+0.000	7,86	1047,827					-6,60	-2,0%	1048,930	1048,798	1047,569	1,23	756.635,802	8.180.965,081	1048,666	-2,0%	6,60						7,32	1048,189
344+0.000	7,86	1047,466					-6,60	-2,0%	1048,568	1048,436	1047,479	0,96	756.652,543	8.180.976,023	1048,304	-2,0%	6,60						7,09	1047,975
345+0.000	7,90	1047,074					-6,60	-2,0%	1048,206	1048,074	1046,961	1,11	756.669,357	8.180.986,854	1047,942	-2,0%	6,60						7,34	1047,450
346+0.000	7,60	1046,913					-6,60	-2,0%	1047,844	1047,712	1046,579	1,13	756.686,242	8.180.997,571	1047,580	-2,0%	6,60						7,29	1047,123
347+0.000	7,60	1046,550					-6,60	-2,0%	1047,482	1047,350	1046,340	1,01	756.703,199	8.181.008,176	1047,218	-2,0%	6,60						7,20	1046,819
348+0.000	7,66	1046,161					-6,60	-2,0%	1047,129	1046,997	1046,037	0,96	756.720,226	8.181.018,668	1046,865	-2,0%	6,60						7,11	1046,527
349+0.000	7,58	1045,886					-6,60	-2,0%	1046,800	1046,668	1045,937	0,73	756.737,313	8.181.029,062	1046,536	-2,0%	6,60						7,04	1046,245
350+0.000	6,93	1046,014					-6,60	-2,0%	1046,497	1046,365	1045,829	0,54	756.754,408	8.181.039,444	1046,233	-2,0%	6,60						7,00	1045,968
351+0.000	6,86	1045,771					-6,60	-2,0%	1046,209	1046,077	1045,454	0,62	756.771,502	8.181.049,825	1045,945	-2,0%	6,60						7,13	1045,592
352+0.000	7,32	1045,177					-6,60	-2,0%	1045,922	1045,790	1045,116	0,67	756.788,597	8.181.060,206	1045,658	-2,0%	6,60						7,22	1045,242
353+0.000	7,18	1044,986					-6,60	-2,0%	1045,635	1045,503	1044,899	0,60	756.805,692	8.181.070,588	1045,371	-2,0%	6,60						7,22	1044,956
354+0.000	7,16	1044,711					-6,60	-2,0%	1045,348	1045,216	1044,724	0,49	756.822,786	8.181.080,969	1045,084	-2,0%	6,60						7,13	1044,734
355+0.000	7,30	1044,329					-6,60	-2,0%	1045,061	1044,929	1044,264	0,67	756.839,881	8.181.091,351	1044,797	-2,0%	6,60						7,24	1044,371
356+0.000	7,32	1044,029					-6,60	-2,0%	1044,774	1044,642	1043,820	0,82	756.856,976	8.181.101,732	1044,510	-2,0%	6,60						7,39	1043,985
357+0.000	7,33	1043,734					-6,60	-2,0%	1044,487	1044,355	1043,548	0,81	756.874,070	8.181.112,113	1044,223	-2,0%	6,60						7,23	1043,803
358+0.000	7,12	1043,590					-6,60	-2,0%	1044,199	1044,067	1043,226	0,84	756.891,165	8.181.122,495	1043,935	-2,0%	6,60						7,19	1043,543
359+0.000	7,08	1043,331					-6,60	-2,0%	1043,912	1043,780	1043,001	0,78	756.908,259	8.181.132,876	1043,648	-2,0%	6,60						7,16	1043,276
360+0.000	7,17	1042,984					-6,60	-2,0%	1043,625	1043,493	1042,877	0,62	756.925,354	8.181.143,258	1043,361	-2,0%	6,60						7,11	1043,018
361+0.000	7,31	1042,603					-6,60	-2,0%	1043,338	1043,206	1042,551	0,65	756.942,449	8.181.153,639	1043,074	-2,0%	6,60						7,09	1042,748
362+0.000	6,90	1042,589					-6,60	-2,0%	1043,051	1042,919	1042,182	0,74	756.959,543	8.181.164,020	1042,787	-2,0%	6,60						6,93	1042,567
363+0.000	7,21	1042,090					-6,60	-2,0%	1042,764	1042,632	1041,898	0,73	756.976,638	8.181.174,402	1042,500	-2,0%	6,60						7,05	1042,198
364+0.000	6,84	1042,055					-6,60	-2,0%	1042,477	1042,345	1041,820	0,53	756.993,733	8.181.184,783	1042,213	-2,0%	6,60						7,00	1041,947
365+0.000	7,12	1041,577					-6,60	-2,0%	1042,190	1042,058	1041,405	0,65	757.010,827	8.181.195,165	1041,926	-2,0%	6,60						6,97	1041,682
366+0.000	7,05	1041,340					-6,60	-2,0%	1041,902	1041,770	1041,135	0,63	757.027,922	8.181.205,546	1041,638	-2,0%	6,60						7,05	1041,338
367+0.000	6,80	1041,221					-6,60	-2,0%	1041,615	1041,483	1040,937	0,55	757.045,017	8.181.215,927	1041,351	-2,0%	6,60						6,91	1041,142
368+0.000	6,68	1041,014					-6,60	-2,0%	1041,328	1041,196	1040,564	0,63	757.062,111	8.181.226,309	1041,064	-2,0%	6,60						6,82	1040,915



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
369+0.000	6,83	1040,626					-6,60	-2,0%	1041,041	1040,909	1040,194	0,72	757.079,206	8.181.236,690	1040,777	-2,0%	6,60						6,64	1040,752
370+0.000	6,86	1040,319					-6,60	-2,0%	1040,754	1040,622	1039,877	0,75	757.096,300	8.181.247,072	1040,490	-2,0%	6,60						6,65	1040,540
371+0.000	6,66	1040,259					-6,60	-2,0%	1040,467	1040,335	1039,557	0,78	757.113,395	8.181.257,453	1040,203	-2,0%	6,60						6,69	1040,143
372+0.000	6,60	1039,914					-6,60	-2,0%	1040,180	1040,048	1039,105	0,94	757.130,490	8.181.267,834	1039,916	-2,0%	6,60						6,95	1039,680
373+0.000	6,74	1039,538					-6,60	-2,0%	1039,893	1039,761	1038,767	0,99	757.147,584	8.181.278,216	1039,629	-2,0%	6,60						7,24	1039,204
374+0.000	6,97	1039,093					-6,60	-2,0%	1039,605	1039,473	1038,643	0,83	757.164,679	8.181.288,597	1039,341	-2,0%	6,60						7,39	1038,812
375+0.000	7,08	1038,753					-6,60	-2,0%	1039,337	1039,205	1038,373	0,83	757.181,774	8.181.298,979	1039,073	-2,0%	6,60						7,51	1038,465
376+0.000	7,32	1038,377					-6,60	-2,0%	1039,124	1038,992	1038,053	0,94	757.198,868	8.181.309,360	1038,860	-2,0%	6,60						7,65	1038,158
377+0.000	7,87	1037,859					-6,60	-2,0%	1038,968	1038,836	1037,812	1,02	757.215,963	8.181.319,741	1038,704	-2,0%	6,60						7,90	1037,839
378+0.000	8,00	1037,656					-6,60	-2,0%	1038,852	1038,720	1037,653	1,07	757.233,058	8.181.330,123	1038,588	-2,0%	6,60						7,99	1037,663
379+0.000	8,42	1037,262					-6,60	-2,0%	1038,737	1038,605	1037,443	1,16	757.250,152	8.181.340,504	1038,473	-2,0%	6,60						8,09	1037,477
380+0.000	8,87	1036,843					-6,60	-2,0%	1038,622	1038,490	1037,159	1,33	757.267,247	8.181.350,886	1038,358	-2,0%	6,60						8,28	1037,236
381+0.000	8,43	1037,025					-6,60	-2,0%	1038,506	1038,374	1036,990	1,38	757.284,342	8.181.361,267	1038,242	-2,0%	6,60						8,33	1037,091
382+0.000	8,28	1037,006					-6,60	-2,0%	1038,391	1038,259	1036,943	1,32	757.301,436	8.181.371,648	1038,127	-2,0%	6,60						8,29	1037,003
383+0.000	8,22	1036,932					-6,60	-2,0%	1038,276	1038,144	1036,900	1,24	757.318,531	8.181.382,030	1038,012	-2,0%	6,60						8,41	1036,804
384+0.000	8,09	1036,902					-6,60	-2,0%	1038,161	1038,029	1036,796	1,23	757.335,625	8.181.392,411	1037,897	-2,0%	6,60						8,38	1036,707
385+0.000	8,12	1036,771					-6,60	-2,0%	1038,046	1037,914	1036,608	1,31	757.352,720	8.181.402,792	1037,782	-2,0%	6,60						8,40	1036,581
386+0.000	8,01	1036,729					-6,60	-2,0%	1037,931	1037,799	1036,513	1,29	757.369,815	8.181.413,174	1037,667	-2,0%	6,60						8,20	1036,600
387+0.000	8,10	1036,549					-6,60	-2,0%	1037,815	1037,683	1036,249	1,43	757.386,909	8.181.423,555	1037,720	0,6%	6,60						8,47	1036,477
388+0.000	7,89	1036,487					-6,60	-3,3%	1037,787	1037,658	1036,064	1,50	757.403,946	8.181.434,031	1037,787	3,3%	6,60						8,74	1036,359
389+0.000	8,02	1036,245					-6,60	-4,0%	1037,717	1037,453	1035,836	1,62	757.420,698	8.181.444,956	1037,717	4,0%	6,60						9,05	1036,085
390+0.000	8,20	1036,007					-6,60	-4,0%	1037,602	1037,338	1035,637	1,70	757.437,131	8.181.456,354	1037,602	4,0%	6,60						9,37	1035,753
391+0.000	8,46	1035,720					-6,60	-4,0%	1037,487	1037,223	1035,462	1,76	757.453,232	8.181.468,217	1037,487	4,0%	6,60						9,83	1035,333
392+0.000	8,76	1035,403					-6,60	-4,0%	1037,372	1037,108	1035,280	1,83	757.468,987	8.181.480,536	1037,372	4,0%	6,60						10,35	1034,873
393+0.000	8,94	1035,166					-6,60	-4,0%	1037,256	1036,992	1035,029	1,96	757.484,384	8.181.493,299	1037,256	4,0%	6,60						10,60	1034,588
394+0.000	9,12	1034,931					-6,60	-4,0%	1037,141	1036,877	1034,761	2,12	757.499,410	8.181.506,497	1037,141	4,0%	6,60						10,63	1034,452
395+0.000	9,42	1034,616					-6,60	-4,0%	1037,026	1036,762	1034,388	2,37	757.514,053	8.181.520,119	1037,026	4,0%	6,60						10,99	1034,100
396+0.000	9,71	1034,313					-6,60	-4,0%	1036,911	1036,647	1034,115	2,53	757.528,301	8.181.534,154	1036,911	4,0%	6,60						11,21	1033,836
397+0.000	9,93	1034,050					-6,60	-4,0%	1036,796	1036,532	1033,847	2,68	757.542,142	8.181.548,590	1036,796	4,0%	6,60						11,13	1033,778
398+0.000	10,08	1033,834					-6,60	-4,0%	1036,681	1036,417	1033,690	2,73	757.555,565	8.181.563,416	1036,681	4,0%	6,60						11,80	1033,211
399+0.000	9,99	1033,780					-6,60	-4,0%	1036,565	1036,301	1033,621	2,68	757.568,559	8.181.578,618	1036,565	4,0%	6,60						10,41	1034,026
400+0.000	9,92	1033,707					-6,60	-4,0%	1036,450	1036,186	1033,696	2,49	757.581,113	8.181.594,186	1036,450	4,0%	6,60						11,92	1032,901
401+0.000	9,60	1033,808					-6,60	-4,0%	1036,335	1036,071	1033,560	2,51	757.593,218	8.181.610,107	1036,335	4,0%	6,60						11,32	1033,189
402+0.000	9,12	1034,016					-6,60	-4,0%	1036,219	1035,956	1033,587	2,37	757.604,862	8.181.626,366	1036,219	4,0%	6,60						11,47	1032,976
403+0.000	8,56	1034,402					-6,60	-2,0%	1035,973	1035,841	1033,901	1,94	757.616,042	8.181.642,949	1035,922	1,2%	6,60						10,34	1033,428
404+0.000	7,67	1034,883					-6,60	-2,0%	1035,858	1035,726	1034,390	1,34	757.627,046	8.181.659,650	1035,624	-1,5%	6,60						8,61	1034,285
405+0.000	6,98	1035,228					-6,60	-2,0%	1035,743	1035,611	1034,981	0,63	757.638,049	8.181.676,351	1035,479	-2,0%	6,60						7,39	1034,949
406+0.000	6,75	1035,508					-6,60	-2,0%	1035,627	1035,495	1035,374	0,12	757.649,052	8.181.693,052	1035,363	-2,0%	6,60						6,89	1035,167
407+0.000	6,63	1035,276					-6,60	-2,0%	1035,512	1035,380	1034,985	0,40	757.660,055	8.181.709,754	1035,248	-2,0%	6,60						6,99	1034,989
408+0.000	6,86	1034,958					-6,60	-2,0%	1035,397	1035,265	1034,652	0,61	757.671,058	8.181.726,455	1035,133	-2,0%	6,60						7,51	1034,529
409+0.000	6,97	1034,773					-6,60	-2,0%	1035,282	1035,150	1034,345	0,81	757.682,062	8.181.743,156	1035,018	-2,0%	6,60						7,94	1034,128



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

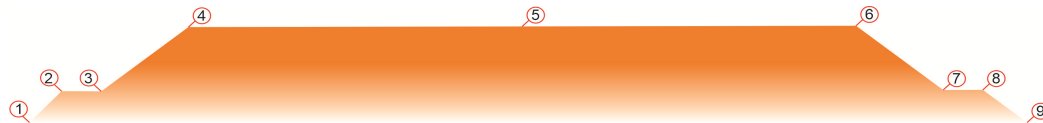
Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
410+0.000	6,98	1034,647					-6,60	-2,0%	1035,167	1035,035	1034,070	0,97	757.693,065	8.181.759,857	1034,903	-2,0%	6,60						8,09	1033,910
411+0.000	7,14	1034,430					-6,60	-2,0%	1035,052	1034,920	1033,917	1,00	757.704,068	8.181.776,558	1034,788	-2,0%	6,60						8,16	1033,746
412+0.000	7,24	1034,248					-6,60	-2,0%	1034,936	1034,804	1033,801	1,00	757.715,071	8.181.793,260	1034,672	-2,0%	6,60						8,25	1033,571
413+0.000	7,27	1034,109					-6,60	-2,0%	1034,821	1034,689	1033,718	0,97	757.726,074	8.181.809,961	1034,557	-2,0%	6,60						8,15	1033,526
414+0.000	7,15	1034,078					-6,60	-2,0%	1034,706	1034,574	1033,656	0,92	757.737,077	8.181.826,662	1034,442	-2,0%	6,60						7,94	1033,548
415+0.000	7,11	1033,984					-6,60	-2,0%	1034,591	1034,459	1033,698	0,76	757.748,081	8.181.843,363	1034,327	-2,0%	6,60						7,83	1033,509
416+0.000	6,99	1033,952					-6,60	-2,0%	1034,476	1034,344	1033,777	0,57	757.759,084	8.181.860,064	1034,212	-2,0%	6,60						7,46	1033,635
417+0.000	6,74	1034,005					-6,60	-2,0%	1034,361	1034,229	1033,704	0,53	757.770,087	8.181.876,766	1034,097	-2,0%	6,60						7,17	1033,720
418+0.000	6,66	1034,041					-6,60	-2,0%	1034,245	1034,113	1033,733	0,38	757.781,090	8.181.893,467	1033,981	-2,0%	6,60						6,90	1033,779
419+0.000	6,75	1034,018					-6,60	-2,0%	1034,130	1033,998	1033,782	0,22	757.792,093	8.181.910,168	1033,866	-2,0%	6,60						6,66	1033,823
420+0.000	6,90	1033,982					-6,60	-2,0%	1033,947	1033,815	1033,727	0,09	757.803,097	8.181.926,869	1033,683	-2,0%	6,60						6,71	1033,792
421+0.000	7,03	1033,820					-6,60	-2,0%	1033,654	1033,522	1033,550	-0,03	757.814,100	8.181.943,570	1033,390	-2,0%	6,60						6,89	1033,675
422+0.000	7,38	1033,765					-6,60	-2,0%	1033,251	1033,119	1033,317	-0,20	757.825,103	8.181.960,272	1032,987	-2,0%	6,60						6,99	1033,377
423+0.000	7,79	1033,662					-6,60	-2,0%	1032,738	1032,606	1033,284	-0,68	757.836,106	8.181.976,973	1032,474	-2,0%	6,60						7,33	1033,200
424+0.000	8,17	1033,416					-6,60	-2,0%	1032,114	1031,982	1033,065	-1,08	757.847,109	8.181.993,674	1031,850	-2,0%	6,60						7,77	1033,018
425+0.000	8,54	1033,052					-6,60	-2,0%	1031,380	1031,248	1032,297	-1,05	757.858,112	8.182.010,375	1031,116	-2,0%	6,60						8,06	1032,581
426+0.000	8,97	1032,641					-6,60	-2,0%	1030,536	1030,404	1031,956	-1,55	757.869,116	8.182.027,076	1030,272	-2,0%	6,60						8,43	1032,103
427+0.000	9,40	1032,182					-6,60	-2,0%	1029,649	1029,517	1031,238	-1,72	757.880,119	8.182.043,778	1029,385	-2,0%	6,60						8,74	1031,522
428+0.000	9,53	1031,426					-6,60	-2,0%	1028,762	1028,630	1030,946	-2,32	757.891,122	8.182.060,479	1028,498	-2,0%	6,60						7,96	1029,858
429+0.000	9,32	1030,334					-6,60	-2,0%	1027,874	1027,742	1029,311	-1,57	757.902,125	8.182.077,180	1027,610	-2,0%	6,60						8,45	1029,461
430+0.000	8,89	1029,011					-6,60	-2,0%	1026,987	1026,855	1027,981	-1,13	757.913,128	8.182.093,881	1026,723	-2,0%	6,60						7,98	1028,106
431+0.000	8,26	1027,494					-6,60	-2,0%	1026,099	1025,967	1026,609	-0,64	757.924,132	8.182.110,582	1025,835	-2,0%	6,60						7,63	1026,866
432+0.000	7,97	1026,314					-6,60	-2,0%	1025,212	1025,080	1025,783	-0,70	757.935,135	8.182.127,283	1024,948	-2,0%	6,60						7,44	1025,792
433+0.000	8,03	1025,491					-6,60	-2,0%	1024,325	1024,193	1024,709	-0,52	757.946,138	8.182.143,985	1024,172	-0,3%	6,60						7,30	1024,869
434+0.000	8,16	1024,734					-6,60	-2,0%	1023,437	1023,305	1023,959	-0,65	757.957,110	8.182.160,706	1023,437	2,0%	6,60						7,21	1024,042
435+0.000	8,08	1023,770					-6,60	-2,0%	1022,550	1022,418	1022,824	-0,41	757.967,927	8.182.177,528	1022,550	2,0%	6,60						6,99	1022,941
436+0.000	7,68	1022,482					-6,60	-2,0%	1021,663	1021,531	1021,254	0,28	757.978,576	8.182.194,458	1021,663	2,0%	6,60						6,68	1021,608
437+0.000	6,90	1020,311					-6,60	-2,0%	1020,775	1020,643	1019,964	0,68	757.989,055	8.182.211,493	1020,775	2,0%	6,60						7,31	1020,304
438+0.000	7,18	1019,234					-6,60	-2,0%	1019,888	1019,756	1018,870	0,89	757.999,363	8.182.228,632	1019,888	2,0%	6,60						7,76	1019,114
439+0.000	7,40	1018,206					-6,60	-2,0%	1019,000	1018,868	1017,733	1,14	758.009,499	8.182.245,873	1019,000	2,0%	6,60						7,79	1018,210
440+0.000	7,50	1017,250					-6,60	-2,0%	1018,113	1017,981	1016,818	1,16	758.019,466	8.182.263,212	1017,992	0,2%	6,60						7,85	1017,158
441+0.000	7,18	1016,575					-6,60	-2,0%	1017,226	1017,094	1016,274	0,82	758.029,381	8.182.280,581	1016,962	-2,0%	6,60						7,81	1016,158
442+0.000	7,21	1015,667					-6,60	-2,0%	1016,338	1016,206	1015,352	0,85	758.039,296	8.182.297,951	1016,074	-2,0%	6,60						6,74	1015,980
443+0.000	7,38	1014,665					-6,60	-2,0%	1015,451	1015,319	1014,050	1,27	758.049,211	8.182.315,320	1015,187	-2,0%	6,60						7,40	1014,654
444+0.000	7,57	1013,655					-6,60	-2,0%	1014,563	1014,431	1013,139	1,29	758.059,126	8.182.332,689	1014,299	-2,0%	6,60						7,78	1013,515
445+0.000	7,23	1012,994					-6,60	-2,0%	1013,676	1013,544	1012,160	1,38	758.069,041	8.182.350,059	1013,412	-2,0%	6,60						7,74	1012,655
446+0.000	7,26	1012,085					-6,60	-2,0%	1012,789	1012,657	1011,203	1,45	758.078,956	8.182.367,428	1012,525	-2,0%	6,60						7,88	1011,669
447+0.000	7,48	1011,048					-6,60	-2,0%	1011,901	1011,769	1010,291	1,48	758.088,871	8.182.384,797	1011,637	-2,0%	6,60						7,91	1010,767
448+0.000	7,41	1010,210					-6,60	-2,0%	1011,014	1010,882	1009,375	1,51	758.098,786	8.182.402,166	1010,750	-2,0%	6,60						8,00	1009,820
449+0.000	7,58	1009,206					-6,60	-2,0%	1010,127	1009,995	1008,590	1,40	758.108,701	8.182.419,536	1009,863	-2,0%	6,60						7,95	1008,961
450+0.000	7,57	1008,329					-6,60	-2,0%	1009,239	1009,107	1007,898	1,21	758.118,616	8.182.436,905	1008,975	-2,0%	6,60						7,88	1008,123



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
451+0.000	7,49	1007,495					-6,60	-2,0%	1008,352	1008,220	1007,549	0,67	758.128,531	8.182.454,274	1008,088	-2,0%	6,60						7,49	1007,493
452+0.000	7,25	1006,766					-6,60	-2,0%	1007,464	1007,332	1006,502	0,83	758.138,446	8.182.471,644	1007,200	-2,0%	6,60						6,74	1007,105
453+0.000	7,09	1005,987					-6,60	-2,0%	1006,577	1006,445	1005,399	1,05	758.148,361	8.182.489,013	1006,313	-2,0%	6,60						7,98	1005,393
454+0.000	7,25	1004,991					-6,60	-2,0%	1005,690	1005,558	1004,641	0,92	758.158,276	8.182.506,382	1005,426	-2,0%	6,60						8,08	1004,442
455+0.000	7,20	1004,139					-6,60	-2,0%	1004,804	1004,672	1003,747	0,93	758.168,191	8.182.523,752	1004,540	-2,0%	6,60						8,12	1003,527
456+0.000	7,11	1003,348					-6,60	-2,0%	1003,954	1003,822	1003,065	0,76	758.178,106	8.182.541,121	1003,690	-2,0%	6,60						8,31	1002,547
457+0.000	7,11	1002,553					-6,60	-2,0%	1003,156	1003,024	1002,255	0,77	758.188,021	8.182.558,490	1002,892	-2,0%	6,60						8,21	1001,818
458+0.000	7,22	1001,733					-6,60	-2,0%	1002,407	1002,275	1001,415	0,86	758.197,936	8.182.575,860	1002,143	-2,0%	6,60						8,28	1001,023
459+0.000	7,30	1000,940					-6,60	-2,0%	1001,674	1001,542	1000,878	0,66	758.207,851	8.182.593,229	1001,410	-2,0%	6,60						8,50	1000,144
460+0.000	7,21	1000,270					-6,60	-2,0%	1000,940	1000,808	1000,121	0,69	758.217,766	8.182.610,598	1000,676	-2,0%	6,60						8,66	999,303
461+0.000	7,27	999,496					-6,60	-2,0%	1000,207	1000,075	999,170	0,91	758.227,681	8.182.627,968	999,943	-2,0%	6,60						8,57	998,632
462+0.000	7,25	998,778					-6,60	-2,0%	999,473	999,341	998,530	0,81	758.237,596	8.182.645,337	999,209	-2,0%	6,60						8,61	997,873
463+0.000	7,05	998,174					-6,60	-2,0%	998,740	998,608	997,899	0,71	758.247,511	8.182.662,706	998,476	-2,0%	6,60						8,24	990,738
464+0.000	7,29	997,284					-6,60	-2,0%	998,007	997,875	997,134	0,74	758.257,426	8.182.680,075	997,743	-2,0%	6,60						8,44	996,514
465+0.000	7,25	996,578					-6,60	-2,0%	997,273	997,141	996,488	0,65	758.267,341	8.182.697,445	997,009	-2,0%	6,60						8,39	995,819
466+0.000	7,15	995,906					-6,60	-2,0%	996,540	996,408	995,813	0,60	758.277,256	8.182.714,814	996,276	-2,0%	6,60						8,00	990,534
467+0.000	7,07	995,231					-6,60	-2,0%	995,806	995,674	995,230	0,44	758.287,171	8.182.732,183	995,542	-2,0%	6,60						7,18	995,159
468+0.000	7,09	994,481					-6,60	-2,0%	995,073	994,941	994,419	0,52	758.297,086	8.182.749,553	994,809	-2,0%	6,60						8,15	993,774
469+0.000	6,91	993,867					-6,60	-2,0%	994,340	994,208	993,716	0,49	758.307,001	8.182.766,922	994,076	-2,0%	6,60						8,67	992,694
470+0.000	6,92	993,129					-6,60	-2,0%	993,606	993,474	992,940	0,53	758.316,916	8.182.784,291	993,342	-2,0%	6,60						8,64	991,984
471+0.000	6,87	992,448					-6,60	-2,0%	992,893	992,761	992,248	0,51	758.326,831	8.182.801,661	992,629	-2,0%	6,60						8,84	991,135
472+0.000	7,00	991,736					-6,60	-2,0%	992,268	992,136	991,539	0,60	758.336,746	8.182.819,030	992,004	-2,0%	6,60						8,99	990,408
473+0.000	7,07	991,161					-6,60	-2,0%	991,737	991,605	990,903	0,70	758.346,661	8.182.836,399	991,473	-2,0%	6,60						8,96	989,898
474+0.000	7,41	990,495					-6,60	-2,0%	991,301	991,169	990,238	0,93	758.356,576	8.182.853,769	991,037	-2,0%	6,60						8,99	989,444
475+0.000	7,84	989,872					-6,60	-2,0%	990,960	990,828	989,603	1,23	758.366,491	8.182.871,138	990,696	-2,0%	6,60						9,18	988,979
476+0.000	8,13	989,430					-6,60	-2,0%	990,713	990,581	989,018	1,56	758.376,406	8.182.888,507	990,449	-2,0%	6,60						9,33	988,628
477+0.000	8,51	989,022					-6,60	-2,0%	990,561	990,429	988,679	1,75	758.386,321	8.182.905,877	990,297	-2,0%	6,60						9,67	988,248
478+0.000	8,99	988,650					-6,60	-2,0%	990,504	990,372	988,279	2,09	758.396,236	8.182.923,246	990,240	-2,0%	6,60						9,92	988,026
479+0.000	9,21	988,540					-6,60	-2,0%	990,541	990,409	988,096	2,31	758.406,151	8.182.940,615	990,277	-2,0%	6,60						10,21	987,871
480+0.000	9,43	988,520					-6,60	-2,0%	990,672	990,540	988,068	2,47	758.416,066	8.182.957,984	990,408	-2,0%	6,60						10,37	987,894
481+0.000	9,42	988,732					-6,60	-2,0%	990,878	990,746	988,241	2,51	758.425,981	8.182.975,354	990,614	-2,0%	6,60						10,78	987,827
482+0.000	9,28	989,042					-6,60	-2,0%	991,091	990,959	988,543	2,42	758.435,896	8.182.992,723	990,827	-2,0%	6,60						10,77	988,045
483+0.000	9,07	989,393					-6,60	-2,0%	991,303	991,171	988,904	2,27	758.445,816	8.183.010,090	991,038	-2,0%	6,66						10,91	988,203
484+0.000	8,79	989,833					-6,60	-1,4%	991,474	991,383	989,284	2,10	758.455,856	8.183.027,387	991,246	-2,0%	6,85						10,81	988,602
485+0.000	8,76	990,245					-6,60	1,4%	991,501	991,595	989,914	1,68	758.466,236	8.183.044,481	991,456	-2,0%	6,96						10,71	988,957
486+0.000	8,42	990,871					-6,60	4,2%	991,529	991,807	990,480	1,33	758.477,175	8.183.061,223	991,506	-4,2%	7,14						10,02	989,590
487+0.000	7,89	991,532					-6,60	5,6%	991,649	992,019	991,101	0,92	758.488,868	8.183.077,446	991,616	-5,6%	7,20						9,54	990,058
488+0.000	7,45	992,038					-6,60	5,6%	991,862	992,232	991,734	0,50	758.501,395	8.183.093,034	991,829	-5,6%	7,20						7,59	991,572
489+0.000	6,98	992,563					-6,60	5,6%	992,074	992,444	991,865	0,58	758.514,725	8.183.107,941	992,041	-5,6%	7,20						7,51	991,832
490+0.000	7,33	992,536					-6,60	5,6%	992,286	992,656	992,399	0,26	758.528,820	8.183.122,127	992,253	-5,6%	7,20						7,36	992,145
491+0.000	6,91	993,028					-6,60	5,6%	992,498	992,868	992,895	-0,03	758.543,642	8.183.135,551	992,465	-5,6%	7,20						7,23	992,497



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

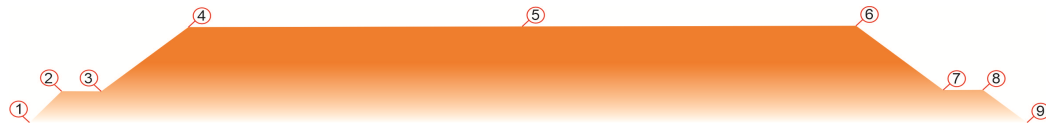
Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
492+0.000	6,73	993,362					-6,60	5,6%	992,710	993,080	993,002	0,08	758.559,150	8.183.148,177	992,677	-5,6%	7,20						7,27	992,628
493+0.000	7,10	993,329					-6,60	5,6%	992,922	993,292	993,009	0,28	758.575,300	8.183.159,970	992,889	-5,6%	7,20						7,45	992,724
494+0.000	7,38	993,356					-6,60	5,6%	993,135	993,505	993,125	0,38	758.592,049	8.183.170,897	993,102	-5,6%	7,20						7,63	992,816
495+0.000	7,91	993,211					-6,60	5,6%	993,347	993,717	993,102	0,62	758.609,349	8.183.180,927	993,314	-5,6%	7,20						7,73	992,962
496+0.000	8,40	993,097					-6,60	5,6%	993,559	993,929	993,015	0,91	758.627,153	8.183.190,034	993,526	-5,6%	7,20						8,14	992,899
497+0.000	8,68	993,105					-6,60	5,6%	993,749	994,119	993,005	1,11	758.645,411	8.183.198,191	993,716	-5,6%	7,20						8,50	992,852
498+0.000	8,93	993,082					-6,60	5,6%	993,898	994,268	993,029	1,24	758.664,073	8.183.205,377	993,865	-5,6%	7,20						8,68	992,876
499+0.000	8,99	993,152					-6,60	5,6%	994,006	994,376	993,076	1,30	758.683,088	8.183.211,571	993,973	-5,6%	7,20						8,83	992,888
500+0.000	9,02	993,197					-6,60	5,6%	994,072	994,442	993,074	1,37	758.702,401	8.183.216,756	994,039	-5,6%	7,20						8,89	992,912
501+0.000	9,19	993,113					-6,60	5,6%	994,098	994,468	992,980	1,49	758.721,961	8.183.220,918	994,065	-5,6%	7,20						9,04	992,841
502+0.000	9,54	992,864					-6,60	5,6%	994,082	994,452	992,825	1,63	758.741,713	8.183.224,044	994,049	-5,6%	7,20						9,33	992,632
503+0.000	9,93	992,548					-6,60	5,6%	994,026	994,396	992,560	1,84	758.761,602	8.183.226,128	993,993	-5,6%	7,20						9,60	990,239
504+0.000	9,97	992,419					-6,60	5,6%	993,928	994,298	992,393	1,90	758.781,573	8.183.227,162	993,895	-5,6%	7,20						9,67	992,251
505+0.000	9,36	992,711					-6,60	5,6%	993,811	994,181	992,266	1,92	758.801,570	8.183.227,145	993,778	-5,6%	7,20						9,60	992,181
506+0.000	9,58	992,422					-6,60	5,2%	993,719	994,064	992,395	1,67	758.821,539	8.183.226,075	993,688	-5,2%	7,19						9,42	992,201
507+0.000	9,11	992,435					-6,60	2,4%	993,788	993,948	992,307	1,64	758.841,432	8.183.224,019	993,777	-2,4%	7,03						9,36	990,222
508+0.000	8,32	992,663					-6,60	-0,4%	993,855	993,831	992,416	1,41	758.861,233	8.183.221,214	993,693	-2,0%	6,91						9,06	992,256
509+0.000	7,81	992,775					-6,60	-2,0%	993,846	993,714	992,437	1,28	758.880,960	8.183.217,922	993,579	-2,0%	6,74						8,70	992,275
510+0.000	7,52	992,852					-6,60	-2,0%	993,729	993,597	992,541	1,06	758.900,649	8.183.214,405	993,465	-2,0%	6,60						8,40	992,264
511+0.000	7,39	992,820					-6,60	-2,0%	993,612	993,480	992,465	1,01	758.920,332	8.183.210,860	993,348	-2,0%	6,60						8,21	992,277
512+0.000	7,10	992,898					-6,60	-2,0%	993,496	993,364	992,604	0,76	758.940,015	8.183.207,314	993,232	-2,0%	6,60						7,90	992,368
513+0.000	6,71	993,045					-6,60	-2,0%	993,379	993,247	992,654	0,59	758.959,698	8.183.203,769	993,115	-2,0%	6,60						7,66	992,408
514+0.000	6,78	993,174					-6,60	-2,0%	993,262	993,130	992,768	0,36	758.979,381	8.183.200,223	992,998	-2,0%	6,60						7,47	990,242
515+0.000	6,96	993,236					-6,60	-2,0%	993,145	993,013	992,681	0,33	758.999,065	8.183.196,677	992,881	-2,0%	6,60						7,30	992,412
516+0.000	6,92	993,087					-6,60	-2,0%	993,029	992,897	992,689	0,21	759.018,748	8.183.193,132	992,765	-2,0%	6,60						7,40	992,232
517+0.000	6,96	993,011					-6,60	-2,0%	992,912	992,780	992,516	0,26	759.038,431	8.183.189,586	992,648	-2,0%	6,60						7,29	992,188
518+0.000	7,05	992,982					-6,60	-2,0%	992,795	992,663	992,434	0,23	759.058,114	8.183.186,041	992,531	-2,0%	6,60						7,33	992,043
519+0.000	7,17	992,979					-6,60	-2,0%	992,678	992,546	992,357	0,19	759.077,798	8.183.182,495	992,414	-2,0%	6,60						7,44	991,856
520+0.000	7,05	992,748					-6,60	-2,0%	992,561	992,429	992,292	0,14	759.097,481	8.183.178,950	992,297	-2,0%	6,60						7,47	991,718
521+0.000	7,01	992,593					-6,60	-2,0%	992,445	992,313	992,026	0,29	759.117,164	8.183.175,404	992,181	-2,0%	6,60						7,34	991,688
522+0.000	6,92	992,382					-6,60	-2,0%	992,328	992,196	991,926	0,27	759.136,847	8.183.171,859	992,064	-2,0%	6,60						7,47	991,484
523+0.000	6,71	992,060					-6,60	-2,0%	992,211	992,079	991,722	0,36	759.156,530	8.183.168,313	991,947	-2,0%	6,60						7,50	991,347
524+0.000	6,75	991,731					-6,60	-2,0%	992,094	991,962	991,322	0,64	759.176,214	8.183.164,767	991,830	-2,0%	6,60						8,02	990,882
525+0.000	7,02	991,435					-6,60	-2,0%	991,977	991,845	990,953	0,89	759.195,897	8.183.161,222	991,713	-2,0%	6,60						8,28	990,593
526+0.000	7,03	991,311					-6,60	-2,0%	991,861	991,729	990,749	0,98	759.215,580	8.183.157,676	991,597	-2,0%	6,60						8,34	990,435
527+0.000	6,95	991,246					-6,60	-2,0%	991,744	991,612	990,683	0,93	759.235,263	8.183.154,131	991,480	-2,0%	6,60						8,44	990,253
528+0.000	7,06	991,058					-6,60	-2,0%	991,627	991,495	990,558	0,94	759.254,946	8.183.150,585	991,363	-2,0%	6,60						8,59	990,036
529+0.000	7,05	990,945					-6,60	-2,0%	991,510	991,378	990,371	1,01	759.274,630	8.183.147,040	991,246	-2,0%	6,60						8,44	990,022
530+0.000	7,39	990,604					-6,60	-2,0%	991,394	991,262	990,102	1,16	759.294,313	8.183.143,494	991,130	-2,0%	6,60						8,69	989,734
531+0.000	8,20	989,944					-6,60	-2,0%	991,277	991,145	989,581	1,56	759.313,996	8.183.139,949	991,013	-2,0%	6,60						8,89	989,485
532+0.000	8,93	989,342					-6,60	-2,0%	991,160	991,028	989,260	1,77	759.333,679	8.183.136,403	990,896	-2,0%	6,60						8,62	989,551



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
533+0.000	9,25	989,011					-6,60	-2,0%	991,043	990,911	989,098	1,81	759.353,363	8.183.132,857	990,779	-2,0%	6,60						9,28	988,994
534+0.000	9,78	988,542					-6,60	-2,0%	990,926	990,794	988,967	1,83	759.373,046	8.183.129,312	990,662	-2,0%	6,60						8,62	989,314
535+0.000	9,76	988,438					-6,60	-2,0%	990,810	990,678	988,931	1,75	759.392,729	8.183.125,766	990,546	-2,0%	6,60						8,64	989,189
536+0.000	9,55	988,460					-6,60	-2,0%	990,693	990,561	988,858	1,70	759.412,412	8.183.122,221	990,429	-2,0%	6,60						9,06	988,789
537+0.000	9,60	988,309					-6,60	-2,0%	990,576	990,444	988,871	1,57	759.432,095	8.183.118,675	990,312	-2,0%	6,60						8,56	989,006
538+0.000	8,71	988,787					-6,60	-2,0%	990,459	990,327	988,978	1,35	759.451,779	8.183.115,130	990,195	-2,0%	6,60						8,52	988,913
539+0.000	8,35	988,915					-6,60	-2,0%	990,342	990,210	989,049	1,16	759.471,462	8.183.111,584	990,078	-2,0%	6,60						8,18	989,026
540+0.000	7,64	989,291					-6,60	-2,0%	990,249	990,117	989,230	0,89	759.491,145	8.183.108,039	989,985	-2,0%	6,60						7,82	989,172
541+0.000	7,03	989,693					-6,60	-2,0%	990,241	990,109	989,692	0,42	759.510,828	8.183.104,493	989,977	-2,0%	6,60						6,97	989,730
542+0.000	6,66	990,117					-6,60	-2,0%	990,321	990,189	989,926	0,26	759.530,512	8.183.100,947	990,057	-2,0%	6,60						6,87	989,880
543+0.000	6,92	990,542					-6,60	-2,0%	990,490	990,358	990,401	-0,04	759.550,195	8.183.097,402	990,226	-2,0%	6,60						6,77	990,113
544+0.000	7,24	991,118					-6,60	-2,0%	990,746	990,614	991,021	-0,41	759.569,878	8.183.093,856	990,482	-2,0%	6,60						7,40	989,947
545+0.000	7,30	991,529					-6,60	-2,0%	991,092	990,960	991,419	-0,46	759.589,561	8.183.090,311	990,828	-2,0%	6,60						6,61	990,839
546+0.000	7,40	992,057					-6,60	-2,0%	991,525	991,393	991,620	-0,23	759.609,244	8.183.086,765	991,261	-2,0%	6,60						7,32	990,784
547+0.000	7,44	992,618					-6,60	-2,0%	992,047	991,915	992,245	-0,33	759.628,928	8.183.083,220	991,783	-2,0%	6,60						6,80	990,165
548+0.000	7,38	993,168					-6,60	-2,0%	992,657	992,525	992,945	-0,42	759.648,611	8.183.079,674	992,393	-2,0%	6,60						6,97	992,762
549+0.000	7,32	993,812					-6,60	-2,0%	993,356	993,224	993,411	-0,19	759.668,294	8.183.076,129	993,092	-2,0%	6,60						6,77	992,979
550+0.000	7,15	994,410					-6,60	-2,0%	994,119	993,987	993,869	0,12	759.687,977	8.183.072,583	993,855	-2,0%	6,60						7,45	993,291
551+0.000	6,92	994,945					-6,60	-2,0%	994,886	994,754	994,366	0,39	759.707,660	8.183.069,037	994,622	-2,0%	6,60						7,88	993,767
552+0.000	6,85	995,638					-6,60	-2,0%	995,652	995,520	995,023	0,50	759.727,344	8.183.065,492	995,388	-2,0%	6,60						8,16	994,351
553+0.000	6,61	996,161					-6,60	-2,0%	996,419	996,287	995,670	0,62	759.747,027	8.183.061,946	996,155	-2,0%	6,60						7,83	995,339
554+0.000	6,67	996,873					-6,60	-2,0%	997,186	997,054	996,498	0,56	759.766,710	8.183.058,401	996,922	-2,0%	6,60						8,52	995,643
555+0.000	6,80	997,552					-6,60	-2,0%	997,952	997,820	997,263	0,56	759.786,393	8.183.054,855	997,688	-2,0%	6,60						8,15	996,655
556+0.000	7,02	998,172					-6,60	-2,0%	998,719	998,587	998,180	0,41	759.806,077	8.183.051,310	998,455	-2,0%	6,60						6,81	998,314
557+0.000	7,17	998,839					-6,60	-2,0%	999,486	999,354	998,536	0,82	759.825,760	8.183.047,764	999,222	-2,0%	6,60						8,04	990,826
558+0.000	7,30	999,525					-6,60	-2,0%	1000,252	1000,120	999,072	1,05	759.845,443	8.183.044,219	999,988	-2,0%	6,60						8,32	998,842
559+0.000	7,37	1000,239					-6,60	-2,0%	1001,019	1000,887	999,680	1,21	759.865,126	8.183.040,673	1000,755	-2,0%	6,60						9,29	998,963
560+0.000	7,25	1001,086					-6,60	-2,0%	1001,786	1001,654	1000,425	1,23	759.884,809	8.183.037,127	1001,522	-2,0%	6,60						8,12	1000,507
561+0.000	7,14	1001,928					-6,60	-2,0%	1002,552	1002,420	1001,572	0,85	759.904,493	8.183.033,582	1002,288	-2,0%	6,60						8,71	1000,879
562+0.000	7,19	1002,661					-6,60	-2,0%	1003,319	1003,187	1002,280	0,91	759.924,176	8.183.030,036	1003,055	-2,0%	6,60						8,41	1001,852
563+0.000	7,07	1003,508					-6,60	-2,0%	1004,086	1003,954	1003,109	0,84	759.943,859	8.183.026,491	1003,822	-2,0%	6,60						8,72	1002,412
564+0.000	6,88	1004,401					-6,60	-2,0%	1004,852	1004,720	1004,073	0,65	759.963,542	8.183.022,945	1004,588	-2,0%	6,60						8,54	1003,292
565+0.000	6,82	1005,211					-6,60	-2,0%	1005,619	1005,487	1004,912	0,57	759.983,226	8.183.019,400	1005,355	-2,0%	6,60						8,14	1004,328
566+0.000	6,72	1006,042					-6,60	-2,0%	1006,386	1006,254	1005,724	0,53	760.002,909	8.183.015,854	1006,122	-2,0%	6,60						8,21	1005,048
567+0.000	6,72	1007,008					-6,60	-2,0%	1007,152	1007,020	1006,669	0,35	760.022,592	8.183.012,309	1006,888	-2,0%	6,60						7,63	1006,201
568+0.000	6,83	1007,880					-6,60	-2,0%	1007,919	1007,787	1007,649	0,14	760.042,275	8.183.008,763	1007,655	-2,0%	6,60						7,44	1007,092
569+0.000	6,60	1008,420					-6,60	-2,0%	1008,685	1008,553	1008,366	0,19	760.061,958	8.183.005,217	1008,421	-2,0%	6,60						7,11	1008,079
570+0.000	6,66	1009,148					-6,60	-2,0%	1009,452	1009,320	1008,998	0,32	760.081,642	8.183.001,672	1009,188	-2,0%	6,60						6,78	1009,069
571+0.000	6,73	1009,868					-6,60	-2,0%	1010,219	1010,087	1009,695	0,39	760.101,325	8.182.998,126	1009,955	-2,0%	6,60						7,82	1009,145
572+0.000	6,81	1010,583					-6,60	-2,0%	1010,985	1010,853	1010,585	0,27	760.121,008	8.182.994,581	1010,721	-2,0%	6,60						7,60	1010,055
573+0.000	6,92	1011,273					-6,60	-2,0%	1011,752	1011,620	1011,111	0,51	760.140,691	8.182.991,035	1011,488	-2,0%	6,60						7,75	1010,721



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset				
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl		
	1		2		3		4			5				6			7				8		9		
574+0.000	6,91	1012,046					-6,60	-2,0%	1012,519	1012,387	1011,917	0,47	760.160,374	8.182.987,490	1012,255	-2,0%	6,60							7,81	1011,449
575+0.000	7,05	1012,705					-6,60	-2,0%	1013,269	1013,137	1012,639	0,50	760.180,058	8.182.983,944	1013,005	-2,0%	6,60							7,76	1012,234
576+0.000	6,95	1013,439					-6,60	-2,0%	1013,934	1013,802	1013,203	0,60	760.199,741	8.182.980,399	1013,670	-2,0%	6,60							8,19	1012,608
577+0.000	7,03	1013,959					-6,60	-2,0%	1014,506	1014,374	1013,709	0,67	760.219,424	8.182.976,853	1014,242	-2,0%	6,60							7,77	1013,459
578+0.000	6,81	1014,582					-6,60	-2,0%	1014,984	1014,852	1014,551	0,30	760.239,107	8.182.973,307	1014,720	-2,0%	6,60							7,82	1013,906
579+0.000	6,87	1014,944					-6,60	-2,0%	1015,385	1015,253	1014,907	0,35	760.258,791	8.182.969,762	1015,121	-2,0%	6,60							7,13	1014,768
580+0.000	6,73	1015,428					-6,60	-2,0%	1015,778	1015,646	1015,262	0,38	760.278,474	8.182.966,216	1015,514	-2,0%	6,60							7,20	1015,115
581+0.000	6,77	1015,793					-6,60	-2,0%	1016,172	1016,040	1015,623	0,42	760.298,157	8.182.962,671	1015,908	-2,0%	6,60							7,54	1015,279
582+0.000	6,71	1016,228					-6,60	-2,0%	1016,565	1016,433	1016,130	0,30	760.317,840	8.182.959,125	1016,301	-2,0%	6,60							7,77	1015,521
583+0.000	6,70	1016,626					-6,60	-2,0%	1016,958	1016,826	1016,399	0,43	760.337,523	8.182.955,580	1016,694	-2,0%	6,60							7,79	1015,903
584+0.000	6,69	1017,027					-6,60	-2,0%	1017,351	1017,219	1016,807	0,41	760.357,207	8.182.952,034	1017,238	0,3%	6,60							7,85	1016,406
585+0.000	6,67	1017,473					-6,60	-3,1%	1017,816	1017,611	1017,366	0,25	760.376,903	8.182.948,566	1017,816	3,1%	6,60							8,35	1016,647
586+0.000	6,74	1017,842					-6,60	-3,8%	1018,209	1017,958	1017,665	0,29	760.396,673	8.182.945,545	1018,209	3,8%	6,60							8,16	1017,167
587+0.000	6,77	1018,159					-6,60	-3,8%	1018,491	1018,240	1018,044	0,20	760.416,513	8.182.943,018	1018,491	3,8%	6,60							7,76	1017,718
588+0.000	6,79	1018,399					-6,60	-3,8%	1018,709	1018,458	1018,404	0,05	760.436,409	8.182.940,988	1018,709	3,8%	6,60							8,05	1017,740
589+0.000	6,86	1018,620					-6,60	-3,8%	1018,861	1018,610	1018,611	0,00	760.456,350	8.182.939,456	1018,861	3,8%	6,60							7,18	1018,474
590+0.000	7,01	1018,852					-6,60	-3,8%	1018,949	1018,698	1018,791	-0,09	760.476,322	8.182.938,423	1018,949	3,8%	6,60							7,22	1018,538
591+0.000	7,07	1018,938					-6,60	-3,8%	1018,972	1018,721	1018,907	-0,19	760.496,315	8.182.937,890	1018,972	3,8%	6,60							6,69	1018,914
592+0.000	7,12	1018,947					-6,60	-3,8%	1018,930	1018,679	1018,899	-0,22	760.516,314	8.182.937,857	1018,930	3,8%	6,60							6,69	1018,870
593+0.000	7,32	1019,037					-6,60	-3,8%	1018,823	1018,572	1018,981	-0,41	760.536,308	8.182.938,323	1018,823	3,8%	6,60							6,78	1019,006
594+0.000	7,43	1018,983					-6,60	-3,8%	1018,652	1018,401	1018,988	-0,59	760.556,284	8.182.939,289	1018,652	3,8%	6,60							6,90	1018,953
595+0.000	7,54	1018,853					-6,60	-3,8%	1018,415	1018,164	1018,832	-0,67	760.576,230	8.182.940,755	1018,415	3,8%	6,60							7,00	1018,819
596+0.000	7,58	1018,590					-6,60	-3,8%	1018,114	1017,863	1018,460	-0,60	760.596,133	8.182.942,718	1018,114	3,8%	6,60							6,76	1018,277
597+0.000	7,54	1018,186					-6,60	-3,8%	1017,748	1017,497	1018,182	-0,69	760.615,980	8.182.945,178	1017,748	3,8%	6,60							7,03	1018,175
598+0.000	7,48	1017,743					-6,60	-3,1%	1017,269	1017,066	1017,663	-0,60	760.635,760	8.182.948,134	1017,269	3,1%	6,60							6,76	1017,425
599+0.000	7,28	1017,122					-6,60	-2,0%	1016,702	1016,570	1017,077	-0,51	760.655,469	8.182.951,534	1016,588	0,3%	6,60							6,69	1016,673
600+0.000	7,26	1016,537					-6,60	-2,0%	1016,141	1016,009	1016,400	-0,39	760.675,164	8.182.955,011	1015,877	-2,0%	6,60							6,66	1015,935
601+0.000	7,16	1015,810					-6,60	-2,0%	1015,516	1015,384	1015,671	-0,29	760.694,860	8.182.958,488	1015,252	-2,0%	6,60							6,66	1015,211
602+0.000	7,07	1015,031					-6,60	-2,0%	1014,826	1014,694	1014,958	-0,26	760.714,555	8.182.961,965	1014,562	-2,0%	6,60							6,69	1014,500
603+0.000	6,95	1014,158					-6,60	-2,0%	1014,070	1013,938	1014,112	-0,17	760.734,251	8.182.965,442	1013,806	-2,0%	6,60							6,80	1013,672
604+0.000	6,97	1013,360					-6,60	-2,0%	1013,250	1013,118	1013,272	-0,15	760.753,946	8.182.968,918	1012,986	-2,0%	6,60							6,69	1012,929
605+0.000	6,98	1012,479					-6,60	-2,0%	1012,367	1012,235	1012,391	-0,16	760.773,642	8.182.972,395	1012,103	-2,0%	6,60							6,89	1011,912
606+0.000	6,95	1011,550					-6,60	-2,0%	1011,463	1011,331	1011,508	-0,18	760.793,337	8.182.975,872	1011,199	-2,0%	6,60							6,73	1011,114
607+0.000	6,95	1010,642					-6,60	-2,0%	1010,559	1010,427	1010,547	-0,12	760.813,033	8.182.979,349	1010,295	-2,0%	6,60							7,02	1010,015
608+0.000	6,93	1009,722					-6,60	-2,0%	1009,655	1009,523	1009,504	0,02	760.832,728	8.182.982,825	1009,391	-2,0%	6,60							6,92	1009,175
609+0.000	6,94	1008,823					-6,60	-2,0%	1008,751	1008,619	1008,675	-0,06	760.852,424	8.182.986,302	1008,487	-2,0%	6,60							6,91	1008,281
610+0.000	6,88	1007,864					-6,60	-2,0%	1007,847	1007,715	1007,881	-0,17	760.872,119	8.182.989,779	1007,583	-2,0%	6,60							6,93	1007,909
611+0.000	6,80	1006,882					-6,60	-2,0%	1006,944	1006,812	1006,842	-0,03	760.891,815	8.182.993,256	1006,680	-2,0%	6,60							6,99	1006,420
612+0.000	6,71	1005,884					-6,60	-2,0%	1006,040	1005,908	1005,747	0,16	760.911,510	8.182.996,733	1005,776	-2,0%	6,60							7,76	1005,004
613+0.000	6,65	1004,921					-6,60	-2,0%	1005,136	1005,004	1004,848	0,16	760.931,206	8.183.000,209	1004,872	-2,0%	6,60							7,52	1004,261
614+0.000	6,67	1004,036					-6,60	-2,0%	1004,232	1004,100	1003,950	0,15	760.950,901	8.183.003,686	1003,968	-2,0%	6,60							7,72	1003,221



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
615+0.000	6,72	1002,987					-6,60	-2,0%	1003,328	1003,196	1002,765	0,43	760.970,597	8.183.007,163	1003,064	-2,0%	6,60						8,36	1001,892
616+0.000	6,77	1002,050					-6,60	-2,0%	1002,424	1002,292	1001,633	0,66	760.990,292	8.183.010,640	1002,160	-2,0%	6,60						7,98	1001,238
617+0.000	7,04	1000,966					-6,60	-2,0%	1001,520	1001,388	1000,880	0,51	761.009,988	8.183.014,116	1001,256	-2,0%	6,60						8,43	1000,039
618+0.000	7,24	999,926					-6,60	-2,0%	1000,617	1000,485	999,747	0,74	761.029,683	8.183.017,593	1000,353	-2,0%	6,60						8,35	999,187
619+0.000	7,19	999,056					-6,60	-2,0%	999,713	999,581	998,927	0,65	761.049,379	8.183.021,070	999,449	-2,0%	6,60						8,98	997,863
620+0.000	7,19	998,150					-6,60	-2,0%	998,809	998,677	997,895	0,78	761.069,074	8.183.024,547	998,545	-2,0%	6,60						8,22	997,463
621+0.000	7,24	997,215					-6,60	-2,0%	997,905	997,773	996,944	0,83	761.088,770	8.183.028,024	997,641	-2,0%	6,60						8,60	996,307
622+0.000	7,45	996,174					-6,60	-2,0%	997,001	996,869	995,879	0,99	761.108,465	8.183.031,500	996,737	-2,0%	6,60						9,14	995,045
623+0.000	7,60	995,169					-6,60	-2,0%	996,097	995,965	994,873	1,09	761.128,160	8.183.034,977	995,833	-2,0%	6,60						8,71	994,426
624+0.000	7,79	994,136					-6,60	-2,0%	995,193	995,061	993,962	1,10	761.147,856	8.183.038,454	994,929	-2,0%	6,60						8,94	993,369
625+0.000	7,86	993,183					-6,60	-2,0%	994,290	994,158	993,174	0,98	761.167,551	8.183.041,931	994,026	-2,0%	6,60						8,11	990,302
626+0.000	7,88	992,271					-6,60	-2,0%	993,386	993,254	992,208	1,05	761.187,247	8.183.045,407	993,122	-2,0%	6,60						8,45	991,889
627+0.000	8,08	991,232					-6,60	-2,0%	992,482	992,350	991,043	1,31	761.206,942	8.183.048,884	992,218	-2,0%	6,60						9,53	990,264
628+0.000	8,18	990,259					-6,60	-2,0%	991,578	991,446	989,922	1,52	761.226,638	8.183.052,361	991,314	-2,0%	6,60						8,15	990,282
629+0.000	8,17	989,366					-6,60	-2,0%	990,674	990,542	988,994	1,55	761.246,333	8.183.055,838	990,410	-2,0%	6,60						8,72	988,998
630+0.000	8,10	988,506					-6,60	-2,0%	989,770	989,638	988,210	1,43	761.266,029	8.183.059,315	989,506	-2,0%	6,60						9,50	987,572
631+0.000	8,21	987,526					-6,60	-2,0%	988,867	988,735	987,152	1,58	761.285,724	8.183.062,791	988,603	-2,0%	6,60						9,78	986,481
632+0.000	8,09	986,756					-6,60	-2,0%	988,014	987,882	986,222	1,66	761.305,420	8.183.066,268	987,750	-2,0%	6,60						8,54	986,458
633+0.000	8,10	986,022					-6,60	-2,0%	987,287	987,155	985,777	1,38	761.325,115	8.183.069,745	987,023	-2,0%	6,60						9,61	985,018
634+0.000	7,96	985,512					-6,60	-2,0%	986,685	986,553	984,954	1,60	761.344,811	8.183.073,222	986,421	-2,0%	6,60						9,87	984,243
635+0.000	8,24	984,852					-6,60	-2,0%	986,208	986,076	984,392	1,68	761.364,506	8.183.076,698	985,944	-2,0%	6,60						9,55	983,976
636+0.000	8,12	984,579					-6,60	-2,0%	985,857	985,725	983,914	1,81	761.384,202	8.183.080,175	985,593	-2,0%	6,60						9,75	983,491
637+0.000	8,45	984,134					-6,60	-2,0%	985,631	985,499	983,568	1,93	761.403,897	8.183.083,652	985,367	-2,0%	6,60						9,79	983,239
638+0.000	9,08	983,611					-6,60	-2,0%	985,531	985,399	983,325	2,07	761.423,593	8.183.087,129	985,267	-2,0%	6,60						9,92	983,051
639+0.000	8,82	983,815					-6,60	-2,0%	985,556	985,424	983,196	2,23	761.443,288	8.183.090,606	985,292	-2,0%	6,60						10,18	982,905
640+0.000	9,10	983,776					-6,60	-2,0%	985,706	985,574	983,238	2,34	761.462,984	8.183.094,082	985,442	-2,0%	6,60						10,78	982,656
641+0.000	9,22	983,922					-6,60	-2,0%	985,930	985,798	983,281	2,52	761.482,679	8.183.097,559	985,666	-2,0%	6,60						11,46	982,425
642+0.000	9,20	984,159					-6,60	-2,0%	986,155	986,023	983,483	2,54	761.502,375	8.183.101,036	985,891	-2,0%	6,60						10,51	983,284
643+0.000	8,93	984,562					-6,60	-2,0%	986,380	986,248	983,841	2,41	761.522,070	8.183.104,513	986,116	-2,0%	6,60						10,73	983,360
644+0.000	8,59	985,013					-6,60	-2,0%	986,604	986,472	984,122	2,35	761.541,766	8.183.107,989	986,340	-2,0%	6,60						10,70	983,605
645+0.000	8,32	985,421					-6,60	-2,0%	986,829	986,697	984,520	2,18	761.561,461	8.183.111,466	986,565	-2,0%	6,60						10,77	983,784
646+0.000	7,98	985,868					-6,60	-2,0%	987,054	986,922	984,992	1,93	761.581,157	8.183.114,943	986,790	-2,0%	6,60						10,46	984,217
647+0.000	7,47	986,437					-6,60	-2,0%	987,278	987,146	985,965	1,18	761.600,852	8.183.118,420	987,014	-2,0%	6,60						9,38	985,158
648+0.000	7,07	986,924					-6,60	-2,0%	987,503	987,371	986,043	1,33	761.620,548	8.183.121,897	987,239	-2,0%	6,60						9,20	985,509
649+0.000	6,69	987,407					-6,60	-2,0%	987,728	987,596	986,797	0,80	761.640,243	8.183.125,373	987,464	-2,0%	6,60						8,16	986,424
650+0.000	6,87	987,992					-6,60	-2,0%	987,985	987,853	987,838	0,01	761.659,939	8.183.128,850	987,721	-2,0%	6,60						7,11	987,379
651+0.000	7,12	988,549					-6,60	-2,0%	988,292	988,160	988,302	-0,14	761.679,634	8.183.132,327	988,028	-2,0%	6,60						7,39	987,500
652+0.000	7,31	989,099					-6,60	-2,0%	988,649	988,517	988,279	0,24	761.699,329	8.183.135,804	988,385	-2,0%	6,60						7,29	987,928
653+0.000	7,37	989,563					-6,60	-2,0%	989,055	988,923	989,055	-0,13	761.719,025	8.183.139,280	988,791	-2,0%	6,60						6,84	988,630
654+0.000	7,49	990,136					-6,60	-2,0%	989,511	989,379	989,420	-0,04	761.738,720	8.183.142,757	989,247	-2,0%	6,60						6,63	989,278
655+0.000	7,37	990,519					-6,60	-2,0%	990,017	989,885	989,830	0,05	761.758,416	8.183.146,234	989,753	-2,0%	6,60						7,23	989,336



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
656+0.000	7,39	991,070					-6,60	-2,0%	990,540	990,408	990,570	-0,16	761.778,111	8.183.149,711	990,276	-2,0%	6,60						6,84	990,117
657+0.000	7,27	991,469					-6,60	-2,0%	991,063	990,931	991,106	-0,17	761.797,807	8.183.153,188	990,799	-2,0%	6,60						7,15	990,432
658+0.000	7,00	991,722					-6,60	-2,0%	991,587	991,455	991,098	0,36	761.817,502	8.183.156,664	991,323	-2,0%	6,60						7,38	990,800
659+0.000	6,92	992,166					-6,60	-2,0%	992,110	991,978	991,844	0,13	761.837,198	8.183.160,141	991,846	-2,0%	6,60						8,02	990,900
660+0.000	6,78	992,544					-6,60	-2,0%	992,633	992,501	991,884	0,62	761.856,893	8.183.163,618	992,369	-2,0%	6,60						7,92	991,492
661+0.000	6,78	993,070					-6,60	-2,0%	993,156	993,024	992,523	0,50	761.876,589	8.183.167,095	992,892	-2,0%	6,60						8,32	991,745
662+0.000	6,67	993,370					-6,60	-2,0%	993,680	993,548	992,773	0,77	761.896,284	8.183.170,571	993,416	-2,0%	6,60						8,21	992,341
663+0.000	6,60	993,938					-6,60	-2,0%	994,203	994,071	993,307	0,76	761.915,980	8.183.174,048	993,939	-2,0%	6,60						8,19	992,878
664+0.000	6,85	994,716					-6,60	-2,0%	994,726	994,594	994,255	0,34	761.935,675	8.183.177,525	994,462	-2,0%	6,60						8,29	993,332
665+0.000	6,74	994,889					-6,60	-2,0%	995,249	995,117	994,187	0,93	761.955,371	8.183.181,002	994,985	-2,0%	6,60						8,58	993,667
666+0.000	6,76	995,402					-6,60	-2,0%	995,772	995,640	994,979	0,66	761.975,066	8.183.184,479	995,508	-2,0%	6,60						8,07	994,531
667+0.000	6,88	995,848					-6,60	-2,0%	996,296	996,164	995,627	0,54	761.994,762	8.183.187,955	996,032	-2,0%	6,60						7,79	995,241
668+0.000	6,96	996,317					-6,60	-2,0%	996,819	996,687	995,846	0,84	762.014,457	8.183.191,432	996,555	-2,0%	6,60						8,19	995,493
669+0.000	7,00	996,810					-6,60	-2,0%	997,342	997,210	996,131	1,08	762.034,153	8.183.194,909	997,078	-2,0%	6,60						8,68	995,693
670+0.000	6,83	997,450					-6,60	-2,0%	997,865	997,733	996,912	0,82	762.053,848	8.183.198,386	997,601	-2,0%	6,60						8,00	996,669
671+0.000	6,83	997,969					-6,60	-2,0%	998,389	998,257	997,388	0,87	762.073,544	8.183.201,862	998,125	-2,0%	6,60						7,90	997,258
672+0.000	6,92	998,435					-6,60	-2,0%	998,912	998,780	997,979	0,80	762.093,239	8.183.205,339	998,648	-2,0%	6,60						7,89	997,786
673+0.000	6,77	999,059					-6,60	-2,0%	999,435	999,303	998,514	0,79	762.112,935	8.183.208,816	999,171	-2,0%	6,60						7,57	998,522
674+0.000	6,67	999,650					-6,60	-2,0%	999,958	999,826	999,206	0,62	762.132,630	8.183.212,293	999,694	-2,0%	6,60						7,42	999,149
675+0.000	6,89	1000,511					-6,60	-2,0%	1000,482	1000,350	1000,154	0,20	762.152,326	8.183.215,769	1000,218	-2,0%	6,60						7,04	1000,654
676+0.000	6,89	1001,027					-6,60	-2,0%	1001,005	1000,873	1000,761	0,11	762.172,021	8.183.219,246	1000,741	-2,0%	6,60						6,93	1000,520
677+0.000	7,03	1001,697					-6,60	-2,0%	1001,528	1001,396	1001,059	0,34	762.191,717	8.183.222,723	1001,264	-2,0%	6,60						6,67	1001,217
678+0.000	6,82	1002,003					-6,60	-2,0%	1002,051	1001,919	1001,489	0,43	762.211,412	8.183.226,200	1001,787	-2,0%	6,60						6,94	1001,563
679+0.000	7,08	1002,788					-6,60	-2,0%	1002,575	1002,443	1002,511	-0,07	762.231,108	8.183.229,677	1002,311	-2,0%	6,60						7,25	1001,881
680+0.000	7,18	1003,410					-6,60	-2,0%	1003,098	1002,966	1002,855	0,11	762.250,803	8.183.233,153	1002,834	-2,0%	6,60						6,93	1002,614
681+0.000	6,89	1003,642					-6,60	-2,0%	1003,621	1003,489	1003,456	0,03	762.270,498	8.183.236,630	1003,357	-2,0%	6,60						6,96	1003,114
682+0.000	7,16	1003,507					-6,60	-2,0%	1004,144	1004,012	1003,489	0,52	762.290,194	8.183.240,107	1003,880	-2,0%	6,60						7,45	1003,311
683+0.000	8,54	1003,110					-6,60	-2,0%	1004,668	1004,536	1003,278	1,26	762.309,889	8.183.243,584	1004,404	-2,0%	6,60						7,99	1003,478
684+0.000	10,09	1002,623					-6,60	-2,0%	1005,214	1005,082	1003,166	1,92	762.329,585	8.183.247,060	1004,950	-2,0%	6,60						8,61	1003,610
685+0.000	11,74	1002,180					-6,60	-2,0%	1005,870	1005,738	1003,059	2,68	762.349,280	8.183.250,537	1005,606	-2,0%	6,60						9,38	1003,753
686+0.000	12,87	1002,199					-6,60	-2,0%	1006,643	1006,511	1003,492	3,02	762.368,976	8.183.254,014	1006,379	-2,0%	6,60						9,67	1004,332
687+0.000	12,65	1003,238					-6,60	-2,0%	1007,533	1007,401	1004,246	3,15	762.388,671	8.183.257,491	1007,269	-2,0%	6,60						9,82	1005,124
688+0.000	11,01	1005,340					-6,60	-2,0%	1008,541	1008,409	1005,509	2,90	762.408,367	8.183.260,968	1008,277	-2,0%	6,60						9,15	1006,579
689+0.000	9,67	1007,353					-6,60	-2,0%	1009,666	1009,534	1006,855	2,68	762.428,062	8.183.264,444	1009,402	-2,0%	6,60						8,84	1007,907
690+0.000	9,24	1008,861					-6,60	-2,0%	1010,885	1010,753	1008,520	2,23	762.447,758	8.183.267,921	1010,621	-2,0%	6,60						8,14	1009,596
691+0.000	7,63	1011,163					-6,60	-2,0%	1012,112	1011,980	1010,667	1,31	762.467,453	8.183.271,398	1011,848	-2,0%	6,60						7,18	1011,460
692+0.000	7,57	1012,427					-6,60	-2,0%	1013,339	1013,207	1012,186	1,02	762.487,149	8.183.274,875	1013,075	-2,0%	6,60						6,69	1013,017
693+0.000	6,93	1014,142					-6,70	-2,0%	1014,568	1014,434	1013,907	0,53	762.506,843	8.183.278,358	1014,302	-2,0%	6,60						6,78	1014,180
694+0.000	7,26	1015,269					-6,88	-2,0%	1015,799	1015,661	1015,003	0,66	762.526,512	8.183.281,984	1015,575	-1,3%	6,60						7,14	1015,217
695+0.000	7,59	1017,268					-7,06	-2,0%	1017,029	1016,888	1016,492	0,40	762.546,102	8.183.286,005	1016,986	1,5%	6,60						7,57	1016,336
696+0.000	7,22	1017,887					-7,14	-4,3%	1018,421	1018,115	1018,106	0,01	762.565,548	8.183.290,678	1018,398	4,3%	6,60						7,86	1017,560



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
697+0.000	7,34	1019,079					-7,20	-5,6%	1019,745	1019,342	1019,125	0,22	762.584,756	8.183.296,242	1019,712	5,6%	6,60						8,52	1018,431
698+0.000	7,61	1019,825					-7,20	-5,6%	1020,908	1020,505	1020,256	0,25	762.603,646	8.183.302,804	1020,875	5,6%	6,60						8,64	1019,516
699+0.000	8,06	1020,579					-7,20	-5,6%	1021,961	1021,558	1020,766	0,79	762.622,165	8.183.310,352	1021,928	5,6%	6,60						8,98	1020,342
700+0.000	8,41	1021,297					-7,20	-5,6%	1022,906	1022,503	1021,653	0,85	762.640,261	8.183.318,863	1022,873	5,6%	6,60						9,16	1021,168
701+0.000	8,78	1021,887					-7,20	-5,6%	1023,743	1023,340	1022,097	1,24	762.657,884	8.183.328,314	1023,710	5,6%	6,60						9,75	1021,609
702+0.000	9,24	1022,306					-7,20	-5,6%	1024,470	1024,067	1022,526	1,54	762.674,986	8.183.338,679	1024,437	5,6%	6,60						10,13	1022,086
703+0.000	9,55	1022,714					-7,20	-5,6%	1025,089	1024,686	1022,900	1,79	762.691,519	8.183.349,930	1025,056	5,6%	6,60						10,31	1022,583
704+0.000	9,94	1022,967					-7,20	-5,6%	1025,600	1025,197	1023,222	1,97	762.707,437	8.183.362,035	1025,567	5,6%	6,60						10,60	1022,899
705+0.000	10,05	1023,298					-7,20	-5,6%	1026,001	1025,598	1023,541	2,06	762.722,696	8.183.374,960	1025,968	5,6%	6,60						10,72	1023,224
706+0.000	10,24	1023,563					-7,07	-3,1%	1026,107	1025,891	1023,384	2,51	762.737,277	8.183.388,647	1026,092	3,1%	6,60						10,45	1023,526
707+0.000	10,01	1023,868					-6,91	-2,0%	1026,213	1026,075	1023,712	2,36	762.751,290	8.183.402,915	1026,091	0,3%	6,60						10,01	1023,815
708+0.000	9,26	1024,439					-6,90	-2,0%	1026,289	1026,151	1023,863	2,29	762.764,906	8.183.417,564	1026,019	-2,0%	6,60						9,72	1023,941
709+0.000	9,11	1024,328					-6,63	-2,0%	1026,251	1026,118	1023,881	2,24	762.778,311	8.183.432,406	1025,986	-2,0%	6,60						10,07	1023,675
710+0.000	8,32	1024,697					-6,60	-2,0%	1026,108	1025,976	1023,895	2,08	762.791,674	8.183.447,287	1025,844	-2,0%	6,60						11,07	1022,863
711+0.000	7,74	1024,831					-6,60	-2,0%	1025,858	1025,726	1022,922	2,80	762.805,037	8.183.462,168	1025,594	-2,0%	6,60						11,26	1022,488
712+0.000	7,02	1024,953					-6,60	-2,0%	1025,498	1025,366	1022,685	2,68	762.818,400	8.183.477,048	1025,234	-2,0%	6,60						10,95	1022,336
713+0.000	6,68	1024,871					-6,60	-2,0%	1025,058	1024,926	1022,569	2,36	762.831,763	8.183.491,929	1024,794	-2,0%	6,60						10,37	1022,281
714+0.000	7,77	1023,567					-6,60	-2,0%	1024,614	1024,482	1022,630	1,85	762.845,126	8.183.506,810	1024,350	-2,0%	6,60						9,65	1022,318
715+0.000	6,70	1024,009					-6,60	-2,0%	1024,169	1024,037	1022,884	1,15	762.858,488	8.183.521,690	1023,905	-2,0%	6,60						8,33	1022,750
716+0.000	6,62	1023,445					-6,60	-2,0%	1023,725	1023,593	1022,926	0,67	762.871,851	8.183.536,571	1023,461	-2,0%	6,60						7,15	1023,098
717+0.000	7,32	1023,701					-6,60	-2,0%	1023,246	1023,114	1022,806	0,31	762.885,214	8.183.551,452	1022,982	-2,0%	6,60						6,87	1022,800
718+0.000	6,83	1022,236					-6,60	-2,0%	1022,653	1022,521	1022,518	0,00	762.898,577	8.183.566,332	1022,389	-2,0%	6,60						6,78	1022,567
719+0.000	7,48	1022,557					-6,60	-2,0%	1021,943	1021,811	1022,573	-0,76	762.911,940	8.183.581,213	1021,679	-2,0%	6,60						7,50	1022,576
720+0.000	8,28	1022,528					-6,60	-2,0%	1021,114	1020,982	1022,495	-1,51	762.925,270	8.183.596,123	1020,936	-0,7%	6,60						8,10	1022,440
721+0.000	9,97	1023,270					-6,60	-2,1%	1020,170	1020,035	1022,243	-2,21	762.938,400	8.183.611,209	1020,170	2,1%	6,60						8,96	1022,533
722+0.000	12,96	1025,014					-6,60	-4,8%	1019,288	1018,971	1021,632	-2,66	762.951,123	8.183.626,639	1019,288	4,8%	6,60						11,24	1023,927
723+0.000	18,43	1026,395					-6,60	-4,8%	1018,106	1017,789	1021,135	-3,35	762.963,254	8.183.642,538	1018,106	4,8%	6,60						11,73	1023,236
724+0.000	19,70	1026,360					-6,60	-4,8%	1016,805	1016,488	1020,503	-4,01	762.974,740	8.183.658,910	1016,805	4,8%	6,60						11,35	1021,550
725+0.000	20,80	1026,080					-6,60	-4,8%	1015,421	1015,104	1020,850	-5,75	762.985,561	8.183.675,728	1015,421	4,8%	6,60						12,48	1021,305
726+0.000	22,28	1026,165					-6,60	-4,8%	1014,034	1013,717	1021,357	-7,64	762.995,702	8.183.692,965	1014,034	4,8%	6,60						11,94	1019,373
727+0.000	23,75	1026,252					-6,60	-4,8%	1012,646	1012,329	1019,740	-7,41	763.005,145	8.183.710,593	1012,646	4,8%	6,60						10,40	1016,450
728+0.000	24,72	1025,836					-6,60	-4,8%	1011,259	1010,942	1018,345	-7,40	763.013,876	8.183.728,586	1011,259	4,8%	6,60						10,14	1014,798
729+0.000	24,39	1024,117					-6,60	-4,8%	1009,871	1009,554	1016,952	-7,40	763.021,880	8.183.746,913	1009,871	4,8%	6,60						9,79	1013,065
730+0.000	30,18	1025,670	-28,60	1024,088	-25,60	1023,998	-6,60	-3,9%	1008,425	1008,166	1015,131	-6,96	763.029,146	8.183.765,545	1008,425	3,9%	6,60						9,50	1011,327
731+0.000	31,60	1025,823	-28,60	1022,827	-25,60	1022,737	-6,60	-2,0%	1006,911	1006,779	1012,846	-6,07	763.035,756	8.183.784,420	1006,856	1,2%	6,60						9,34	1009,601
732+0.000	14,58	1013,237					-6,60	-2,0%	1005,523	1005,391	1009,957	-4,57	763.041,942	8.183.803,439	1005,287	-1,6%	6,60						9,00	1007,684
733+0.000	12,14	1009,410					-6,60	-2,0%	1004,136	1004,004	1006,097	-2,09	763.047,955	8.183.822,514	1003,871	-2,0%	6,67						8,26	1005,453
734+0.000	8,59	1004,477					-6,60	-2,0%	1002,748	1002,616	1003,377	-0,76	763.053,954	8.183.841,593	1002,478	-2,0%	6,91						7,19	1002,762
735+0.000	8,89	1003,489					-6,60	-0,4%	1001,253	1001,229	1001,720	-0,49	763.059,953	8.183.860,672	1001,086	-2,0%	7,14						7,37	1001,317
736+0.000	10,44	997,438					-6,60	2,4%	999,681	999,841	997,859	1,98	763.065,991	8.183.879,739	999,660	-2,4%	7,48						13,02	995,966
737+0.000	11,00	995,863					-6,60	5,2%	998,110	998,454	995,771	2,68	763.072,485	8.183.898,653	998,068	-5,2%	7,40						14,82	993,121



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
738+0.000	11,56	994,155					-6,60	6,0%	996,670	997,066	993,653	3,41	763.080,012	8.183.917,179	996,634	-6,0%	7,20						16,63	990,349
739+0.000	12,90	991,877					-6,60	6,0%	995,282	995,678	991,510	4,17	763.088,753	8.183.935,164	995,246	-6,0%	7,20						18,56	987,670
740+0.000	15,09	988,879					-6,60	3,8%	994,043	994,291	989,365	4,93	763.098,624	8.183.952,555	994,017	-3,8%	7,30	19,30	986,017	22,30	986,107	29,05	981,606	
741+0.000	14,64	987,610					-6,60	1,0%	992,840	992,903	986,884	6,02	763.109,180	8.183.969,542	992,768	-2,0%	6,75	18,75	984,768	21,75	984,858	30,63	978,936	
742+0.000	14,94	985,833					-6,60	-1,8%	991,637	991,516	985,128	6,39	763.119,896	8.183.986,429	991,384	-2,0%	6,60	18,60	983,384	21,60	983,474	30,61	977,467	
743+0.000	15,70	983,931					-6,60	-2,0%	990,260	990,128	983,235	6,89	763.130,612	8.184.003,316	989,996	-2,0%	6,60	18,60	981,996	21,60	982,086	29,02	977,139	
744+0.000	15,85	982,445					-6,61	-2,0%	988,873	988,741	981,536	7,21	763.141,324	8.184.020,205	988,720	-0,3%	6,60	18,600	980,72	21,600	980,81	23,66	979,439	
745+0.000	18,16	979,634					-6,83	-2,5%	987,520	987,353	980,386	6,97	763.151,878	8.184.037,193	987,515	2,5%	6,60						17,72	980,104
746+0.000	25,70	975,224					-7,00	-5,2%	986,331	985,966	979,242	6,72	763.161,939	8.184.054,477	986,310	5,2%	6,60						17,41	979,102
747+0.000	23,20	975,493					-7,00	-5,4%	984,956	984,578	978,378	6,20	763.171,195	8.184.072,204	984,934	5,4%	6,60						15,78	978,812
748+0.000	17,62	975,736					-7,00	-5,4%	983,569	983,191	977,253	5,94	763.179,553	8.184.090,372	983,547	5,4%	6,60						15,38	977,691
749+0.000	17,30	974,559					-7,00	-5,4%	982,181	981,803	976,615	5,19	763.186,992	8.184.108,934	982,159	5,4%	6,60						14,46	976,919
750+0.000	15,89	974,109					-7,00	-5,4%	980,793	980,415	975,983	4,43	763.193,495	8.184.127,846	980,771	5,4%	6,60						13,35	976,273
751+0.000	14,75	973,480					-7,00	-5,4%	979,406	979,028	975,519	3,51	763.199,044	8.184.147,058	979,384	5,4%	6,60						12,08	975,732
752+0.000	10,90	974,663					-7,00	-5,4%	977,640	977,640	975,246	2,39	763.203,626	8.184.166,524	977,996	5,4%	6,60						11,02	975,052
753+0.000	9,68	974,088					-7,00	-5,4%	976,631	976,253	974,175	2,08	763.207,229	8.184.186,195	976,609	5,4%	6,60						9,72	974,530
754+0.000	8,90	973,283					-7,00	-5,4%	975,305	974,927	973,370	1,56	763.209,845	8.184.206,021	975,283	5,4%	6,60						8,91	973,741
755+0.000	8,44	972,367					-7,00	-5,4%	974,080	973,702	972,654	1,05	763.211,467	8.184.225,953	974,058	5,4%	6,60						7,90	973,192
756+0.000	7,66	971,855					-7,00	-4,1%	972,864	972,580	971,784	0,80	763.212,098	8.184.245,941	972,848	4,1%	6,60						7,66	972,139
757+0.000	6,92	971,565					-6,78	-2,0%	971,695	971,559	971,110	0,45	763.211,931	8.184.265,940	971,644	1,3%	6,60						6,78	971,521
758+0.000	6,76	970,670					-6,60	-2,0%	970,773	970,641	970,637	0,00	763.211,359	8.184.285,931	970,543	-1,5%	6,60						6,80	970,743
759+0.000	6,81	969,904					-6,60	-2,0%	969,957	969,825	969,675	0,15	763.210,716	8.184.305,921	969,693	-2,0%	6,60						6,71	969,804
760+0.000	6,96	969,340					-6,60	-2,0%	969,242	969,110	969,161	-0,05	763.210,074	8.184.325,911	968,978	-2,0%	6,60						7,21	969,583
761+0.000	6,85	968,555					-6,60	-2,0%	968,568	968,436	968,649	-0,21	763.209,431	8.184.345,900	968,304	-2,0%	6,60						7,05	968,758
762+0.000	7,01	968,217					-6,60	0,6%	967,720	967,762	968,020	-0,26	763.208,812	8.184.365,891	967,627	-2,0%	6,75						7,17	968,051
763+0.000	7,11	967,830					-6,60	3,4%	966,863	967,089	967,413	-0,32	763.208,622	8.184.385,888	966,847	-3,4%	7,05						7,45	967,251
764+0.000	6,96	967,169					-6,60	6,0%	966,019	966,415	966,422	-0,01	763.209,580	8.184.405,861	965,971	-6,0%	7,40						7,45	966,019
765+0.000	7,96	965,231					-6,60	6,0%	965,346	965,742	964,743	1,00	763.212,252	8.184.425,674	965,298	-6,0%	7,40						8,73	964,412
766+0.000	9,38	963,608					-6,60	6,0%	964,672	965,068	963,470	1,60	763.216,712	8.184.445,164	964,624	-6,0%	7,40						10,27	962,713
767+0.000	10,43	962,235					-6,60	6,0%	963,999	964,395	962,302	2,09	763.222,924	8.184.464,168	963,951	-6,0%	7,40						10,88	961,630
768+0.000	10,26	961,680					-6,60	6,0%	963,325	963,721	961,384	2,34	763.230,834	8.184.482,529	963,277	-6,0%	7,40						11,21	960,738
769+0.000	9,81	961,303					-6,60	6,0%	962,651	963,047	960,553	2,49	763.240,379	8.184.500,097	962,603	-6,0%	7,40						12,47	959,227
770+0.000	8,30	961,639					-6,60	6,0%	961,978	962,374	961,071	1,30	763.251,480	8.184.516,725	961,930	-6,0%	7,40						10,16	960,093
771+0.000	6,91	962,404					-6,60	6,0%	961,304	961,700	961,928	-0,23	763.264,044	8.184.532,277	961,256	-6,0%	7,40						7,64	961,496
772+0.000	7,79	962,608					-6,60	6,0%	960,631	961,027	962,442	-1,41	763.277,968	8.184.546,624	960,583	-6,0%	7,40						8,72	961,897
773+0.000	8,13	962,281					-6,60	6,0%	959,957	960,353	961,972	-1,62	763.293,137	8.184.559,648	959,909	-6,0%	7,40						8,78	961,293
774+0.000	7,75	961,221					-6,60	6,0%	959,284	959,680	960,945	-1,27	763.309,426	8.184.571,241	959,236	-6,0%	7,40						8,58	960,414
775+0.000	7,24	960,044					-6,60	6,0%	958,610	959,006	960,145	-1,14	763.326,700	8.184.581,308	958,562	-6,0%	7,40						8,77	959,936
776+0.000	7,04	959,172					-6,60	6,0%	957,936	958,332	958,849	-0,52	763.344,817	8.184.589,764	957,888	-6,0%	7,40						8,21	958,703
777+0.000	7,02	958,301					-6,60	3,4%	957,434	957,659	957,837	-0,18	763.363,595	8.184.596,633	957,416	-3,4%	7,11						7,56	957,865
778+0.000	7,06	957,540					-6,60	0,6%	957,002	957,043	957,287	-0,24	763.382,739	8.184.602,418	956,907	-2,0%	6,79						7,05	957,163



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4			5				6			7				8		9	
779+0.000	7,01	956,851					-6,60	-2,0%	956,705	956,573	956,235	0,34	763.402,002	8.184.607,796	956,441	-2,0%	6,60						6,86	956,699
780+0.000	7,24	955,696					-6,60	-2,0%	956,383	956,251	955,554	0,70	763.421,272	8.184.613,151	956,119	-2,0%	6,60						7,20	955,720
781+0.000	7,97	955,032					-6,60	-2,0%	956,208	956,076	954,909	1,17	763.440,541	8.184.618,507	955,944	-2,0%	6,60						8,17	954,899
782+0.000	8,92	954,371					-6,60	-2,0%	956,182	956,050	954,624	1,43	763.459,811	8.184.623,862	955,918	-2,0%	6,60						9,23	954,162
783+0.000	9,17	954,327					-6,60	-2,0%	956,303	956,171	954,113	2,06	763.479,081	8.184.629,218	956,039	-2,0%	6,60						11,10	953,039
784+0.000	9,10	954,638					-6,60	-2,0%	956,571	956,439	954,325	2,11	763.498,350	8.184.634,574	956,307	-2,0%	6,60						11,12	953,291
785+0.000	9,47	954,807					-6,60	-2,0%	956,987	956,855	955,109	1,75	763.517,620	8.184.639,929	956,723	-2,0%	6,60						9,09	955,063
786+0.000	9,11	955,611					-6,60	-2,0%	957,551	957,419	956,270	1,15	763.536,889	8.184.645,285	957,287	-2,0%	6,60						8,08	956,300
787+0.000	8,50	956,734					-6,60	-2,0%	958,262	958,130	957,081	1,05	763.556,159	8.184.650,640	957,998	-2,0%	6,60						7,59	957,335
788+0.000	8,57	957,545					-6,60	-2,0%	959,121	958,989	957,875	1,11	763.575,429	8.184.655,996	958,857	-2,0%	6,60						7,30	958,393
789+0.000	8,87	958,296					-6,60	-2,0%	960,070	959,938	959,172	0,77	763.594,698	8.184.661,351	959,806	-2,0%	6,60						7,10	959,471
790+0.000	8,55	959,459					-6,60	-2,0%	961,021	960,889	960,254	0,63	763.613,968	8.184.666,707	960,757	-2,0%	6,60						7,12	960,413
791+0.000	8,28	960,587					-6,60	-2,0%	961,971	961,839	961,315	0,52	763.633,238	8.184.672,062	961,707	-2,0%	6,60						6,72	961,627
792+0.000	7,95	961,757					-6,60	-2,0%	962,921	962,789	963,265	-0,48	763.652,507	8.184.677,418	962,657	-2,0%	6,60						7,17	963,226
793+0.000	7,93	962,723					-6,60	-2,0%	963,872	963,740	964,275	-0,53	763.671,777	8.184.682,773	963,608	-2,0%	6,60						7,51	964,518
794+0.000	6,67	964,509					-6,60	-2,0%	964,818	964,686	965,514	-0,83	763.691,046	8.184.688,129	964,568	-1,8%	6,60						7,75	965,722
795+0.000	7,33	965,694					-7,04	-2,0%	965,687	965,546	966,728	-1,18	763.710,274	8.184.693,631	965,612	1,0%	6,60						7,98	966,992
796+0.000	8,09	966,794					-7,30	-3,8%	966,564	966,287	967,923	-1,64	763.729,199	8.184.700,084	966,537	3,8%	6,60						8,12	968,060
797+0.000	9,23	967,868					-7,80	-6,0%	967,376	966,908	967,860	-0,95	763.747,364	8.184.708,421	967,304	6,0%	6,60						7,90	968,603
798+0.000	8,74	967,879					-7,80	-6,0%	967,878	967,410	968,108	-0,70	763.764,200	8.184.719,185	967,806	6,0%	6,60						7,75	968,954
799+0.000	8,23	967,757					-7,80	-6,0%	968,260	967,792	968,575	-0,78	763.779,332	8.184.732,237	968,188	6,0%	6,60						6,87	968,458
800+0.000	9,37	966,544					-7,80	-6,0%	968,527	968,059	967,653	0,41	763.792,451	8.184.747,310	968,455	6,0%	6,60						7,58	967,805
801+0.000	11,45	965,393					-7,80	-6,0%	968,760	968,292	966,930	1,36	763.803,291	8.184.764,098	968,688	6,0%	6,60						9,16	966,982
802+0.000	13,47	964,224					-7,40	-3,5%	968,780	968,525	966,251	2,27	763.811,752	8.184.782,206	968,753	3,5%	6,60						9,74	966,656
803+0.000	17,13	961,860					-6,99	-2,0%	968,898	968,758	965,850	2,91	763.818,452	8.184.801,046	968,802	0,7%	6,60						10,23	966,379
804+0.000	14,95	963,297					-6,60	-2,0%	969,124	968,992	965,924	3,07	763.824,328	8.184.820,163	968,860	-2,0%	6,60						10,20	966,458
805+0.000	12,20	965,360					-6,60	-2,0%	969,357	969,225	966,190	3,03	763.830,107	8.184.839,310	969,093	-2,0%	6,60						9,75	966,991
806+0.000	10,89	966,469					-6,60	-2,0%	969,590	969,458	966,961	2,50	763.835,887	8.184.858,457	969,326	-2,0%	6,60						8,61	967,987
807+0.000	9,92	967,348					-6,60	-2,0%	969,820	969,691	967,325	2,37	763.841,666	8.184.877,604	969,558	-2,0%	6,67						7,14	969,248
808+0.000	9,28	968,193					-6,60	0,8%	969,870	969,925	968,674	1,25	763.847,711	8.184.896,667	969,782	-2,0%	7,15						8,46	971,086
809+0.000	8,14	969,372					-6,60	3,6%	969,919	970,158	970,350	-0,19	763.854,954	8.184.915,302	969,888	-3,6%	7,46						10,26	972,684
810+0.000	7,40	970,253					-6,60	6,0%	969,995	970,391	971,180	-0,79	763.864,356	8.184.932,934	969,923	-6,0%	7,80						11,96	974,085
811+0.000	6,80	970,885					-6,60	6,0%	970,228	970,624	971,912	-1,29	763.876,458	8.184.948,827	970,156	-6,0%	7,80						12,86	975,213
812+0.000	7,20	971,854					-6,60	6,0%	970,462	970,858	973,147	-2,29	763.891,030	8.184.962,493	970,390	-6,0%	7,80						13,42	976,006
813+0.000	6,72	971,611					-6,60	6,0%	970,695	971,091	973,446	-2,36	763.907,667	8.184.973,552	970,623	-6,0%	7,80						14,40	977,223
814+0.000	7,58	972,697					-6,60	6,0%	970,928	971,324	974,436	-3,11	763.925,907	8.184.981,697	970,856	-6,0%	7,80						14,87	977,930
815+0.000	8,45	973,806					-6,60	6,0%	971,161	971,557	974,825	-3,27	763.945,247	8.184.986,704	971,089	-6,0%	7,80						14,10	977,392
816+0.000	8,92	974,340					-6,60	3,7%	971,538	971,780	974,141	-2,36	763.965,144	8.184.988,540	971,506	-3,7%	7,47						12,89	976,930
817+0.000	8,86	974,220					-6,60	0,9%	971,841	971,899	974,312	-2,41	763.985,129	8.184.987,976	971,757	-2,0%	7,11						11,09	975,741
818+0.000	7,45	972,611					-6,60	-1,9%	972,016	971,890	973,408	-1,52	764.005,041	8.184.986,120	971,757	-2,0%	6,65						8,95	974,058
819+0.000	8,38	970,433					-6,60	-2,0%	971,886	971,754	972,062	-0,31	764.024,926	8.184.983,974	971,622	-2,0%	6,60						7,24	972,264



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

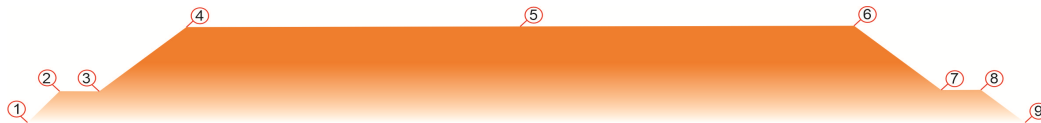
Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
820+0.000	14,83	965,872					-6,60	-2,0%	971,622	971,490	970,885	0,61	764.044,810	8.184.981,827	971,358	-2,0%	6,60						6,79	971,551
821+0.000	18,18	963,520					-7,02	-2,0%	971,239	971,099	970,258	0,84	764.064,710	8.184.979,830	971,124	0,4%	6,60						6,89	970,932
822+0.000	11,60	967,538					-7,39	-3,2%	970,814	970,580	970,454	0,13	764.084,677	8.184.978,769	970,789	3,2%	6,60						6,97	971,162
823+0.000	7,84	969,514					-7,80	-6,0%	970,399	969,934	970,373	-0,44	764.104,648	8.184.979,597	970,327	6,0%	6,60						7,48	971,207
824+0.000	8,65	969,537					-7,80	-6,0%	969,628	969,160	970,314	-1,15	764.124,323	8.184.983,095	969,556	6,0%	6,60						8,41	971,369
825+0.000	8,87	968,871					-7,80	-6,0%	968,738	968,270	969,646	-1,38	764.143,299	8.184.989,359	968,666	6,0%	6,60						8,62	970,683
826+0.000	9,23	968,317					-7,80	-6,0%	967,824	967,356	968,791	-1,44	764.161,189	8.184.998,261	967,752	6,0%	6,60						8,55	969,697
827+0.000	8,78	966,957					-7,80	-6,0%	966,910	966,442	967,915	-1,47	764.177,631	8.185.009,619	966,838	6,0%	6,60						8,07	968,303
828+0.000	8,33	965,840					-7,65	-4,8%	965,891	965,528	966,530	-1,00	764.192,297	8.185.023,192	965,841	4,8%	6,60						7,66	966,905
829+0.000	7,46	964,713					-7,22	-2,0%	964,758	964,614	965,171	-0,56	764.205,236	8.185.038,433	964,743	2,0%	6,60						7,42	965,563
830+0.000	6,99	963,444					-6,81	-2,0%	963,836	963,700	964,232	-0,53	764.217,017	8.185.054,592	963,645	-0,8%	6,60						7,18	964,222
831+0.000	7,77	961,873					-6,60	-2,0%	962,919	962,787	962,275	0,51	764.228,358	8.185.071,066	962,655	-2,0%	6,60						6,73	962,570
832+0.000	8,77	960,297					-6,60	-2,0%	962,005	961,873	960,401	1,47	764.239,677	8.185.087,554	961,741	-2,0%	6,60						8,09	960,748
833+0.000	9,17	959,116					-6,60	-2,0%	961,091	960,959	958,654	2,30	764.250,997	8.185.104,043	960,827	-2,0%	6,60						9,52	958,881
834+0.000	10,35	957,414					-6,60	-2,0%	960,177	960,045	957,401	2,64	764.262,316	8.185.120,532	959,913	-2,0%	6,60						10,47	957,333
835+0.000	10,83	956,179					-6,60	-2,0%	959,263	959,131	956,205	2,93	764.273,635	8.185.137,020	958,999	-2,0%	6,60						11,61	955,658
836+0.000	10,86	955,281					-6,60	-1,4%	958,311	958,217	954,843	3,37	764.284,961	8.185.153,504	958,088	-2,0%	6,45						11,52	954,710
837+0.000	10,44	954,830					-6,60	1,3%	957,216	957,304	953,897	3,41	764.296,438	8.185.169,883	957,173	-2,0%	6,57						11,51	953,881
838+0.000	10,95	953,762					-6,60	4,1%	956,119	956,390	952,924	3,47	764.308,330	8.185.185,962	956,106	-4,1%	6,92						11,62	952,970
839+0.000	11,35	952,666					-6,60	5,4%	955,120	955,476	952,220	3,26	764.320,883	8.185.201,530	955,098	-5,4%	7,00						11,03	952,410
840+0.000	11,04	951,960					-6,60	5,4%	954,206	954,562	951,720	2,84	764.334,194	8.185.216,454	954,184	-5,4%	7,00						11,12	951,439
841+0.000	11,05	951,039					-6,60	5,4%	953,292	953,648	950,923	2,73	764.348,234	8.185.230,695	953,270	-5,4%	7,00						10,42	950,988
842+0.000	11,19	950,028					-6,60	5,4%	952,379	952,735	950,514	2,22	764.362,969	8.185.244,215	952,357	-5,4%	7,00						10,29	950,163
843+0.000	11,16	949,178					-6,60	5,4%	951,507	951,863	949,544	2,32	764.378,360	8.185.256,983	951,485	-5,4%	7,00						9,95	949,515
844+0.000	11,72	948,029					-6,60	5,4%	950,728	951,084	949,164	1,92	764.394,371	8.185.268,965	950,706	-5,4%	7,00						9,41	949,102
845+0.000	10,15	948,385					-6,60	5,4%	950,042	950,398	948,472	1,93	764.410,961	8.185.280,132	950,020	-5,4%	7,00						9,15	948,584
846+0.000	9,32	948,351					-6,60	5,4%	949,449	949,805	948,093	1,71	764.428,088	8.185.290,456	949,427	-5,4%	7,00						8,71	948,290
847+0.000	8,51	948,345					-6,60	5,4%	948,906	949,262	948,260	1,00	764.445,709	8.185.299,911	948,884	-5,4%	7,00						8,45	947,915
848+0.000	8,20	947,880					-6,60	3,5%	948,491	948,720	947,929	0,79	764.463,773	8.185.308,491	948,477	-3,5%	6,99						8,25	947,636
849+0.000	7,34	947,730					-6,60	0,7%	948,130	948,177	947,655	0,52	764.482,154	8.185.316,372	948,042	-2,0%	6,77						7,68	947,436
850+0.000	6,60	947,501					-6,60	-2,0%	947,767	947,635	947,438	0,20	764.500,702	8.185.323,852	947,503	-2,0%	6,59						6,95	947,268
851+0.000	7,09	946,633					-6,60	-2,0%	947,225	947,093	947,056	0,04	764.519,296	8.185.331,221	946,961	-2,0%	6,60						6,84	947,204
852+0.000	6,72	946,541					-6,60	-2,0%	946,682	946,550	946,421	0,13	764.537,889	8.185.338,588	946,418	-2,0%	6,60						6,73	946,551
853+0.000	6,91	946,189					-6,60	-2,0%	946,140	946,008	946,119	-0,11	764.556,483	8.185.345,955	945,876	-2,0%	6,60						6,67	945,942
854+0.000	6,61	945,330					-6,60	-2,0%	945,597	945,465	945,149	0,32	764.575,077	8.185.353,322	945,333	-2,0%	6,60						6,77	945,502
855+0.000	7,25	944,360					-6,60	-2,0%	945,055	944,923	944,482	0,44	764.593,671	8.185.360,689	944,791	-2,0%	6,60						6,67	944,864
856+0.000	7,73	943,497					-6,60	-2,0%	944,513	944,381	943,312	1,07	764.612,264	8.185.368,056	944,249	-2,0%	6,60						7,27	943,805
857+0.000	8,54	942,410					-6,60	-2,0%	943,970	943,838	942,187	1,65	764.630,858	8.185.375,423	943,706	-2,0%	6,60						8,15	942,671
858+0.000	9,30	941,366					-6,60	-2,0%	943,428	943,296	941,555	1,74	764.649,452	8.185.382,790	943,164	-2,0%	6,60						8,40	941,961
859+0.000	9,74	940,527					-6,60	-2,0%	942,886	942,754	940,766	1,99	764.668,046	8.185.390,157	942,622	-2,0%	6,60						8,51	941,345
860+0.000	10,23	939,658					-6,60	-2,0%	942,343	942,211	939,775	2,44	764.686,639	8.185.397,524	942,079	-2,0%	6,60						8,53	940,795



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
861+0.000	11,11	938,528					-6,60	-2,0%	941,801	941,669	938,817	2,85	764.705,233	8.185.404,891	941,537	-2,0%	6,60						8,93	939,986
862+0.000	11,88	937,476					-6,60	-2,0%	941,259	941,127	938,214	2,91	764.723,827	8.185.412,258	940,995	-2,0%	6,60						9,12	939,315
863+0.000	14,09	935,512					-6,60	-2,0%	940,770	940,638	937,528	3,11	764.742,421	8.185.419,625	940,506	-2,0%	6,60						9,45	938,605
864+0.000	15,16	934,394					-6,60	-2,0%	940,366	940,234	937,215	3,02	764.761,014	8.185.426,992	940,102	-2,0%	6,60						9,11	938,427
865+0.000	11,35	936,617					-6,60	-2,0%	940,048	939,916	937,383	2,53	764.779,608	8.185.434,359	939,784	-2,0%	6,60						8,36	938,614
866+0.000	9,91	937,346					-6,60	-2,0%	939,816	939,684	937,622	2,06	764.798,202	8.185.441,726	939,552	-2,0%	6,60						8,49	938,294
867+0.000	8,84	937,914					-6,60	-2,0%	939,669	939,537	938,077	1,46	764.816,796	8.185.449,093	939,405	-2,0%	6,60						8,07	938,427
868+0.000	7,99	938,439					-6,60	-1,7%	939,586	939,476	938,514	0,96	764.835,391	8.185.456,455	939,342	-2,0%	6,68						7,92	938,516
869+0.000	8,66	938,203					-6,60	1,1%	939,428	939,501	938,629	0,87	764.854,044	8.185.463,669	939,362	-2,0%	6,96						8,37	938,421
870+0.000	9,62	937,851					-6,60	3,9%	939,356	939,611	938,407	1,20	764.872,866	8.185.470,431	939,336	-3,9%	7,10						8,53	938,385
871+0.000	9,98	937,911					-6,60	5,4%	939,451	939,807	938,658	1,15	764.891,945	8.185.476,424	939,429	-5,4%	7,00						8,74	938,269
872+0.000	10,03	938,156					-6,60	5,4%	939,733	940,089	938,562	1,53	764.911,297	8.185.481,464	939,711	-5,4%	7,00						8,78	938,525
873+0.000	9,23	939,061					-6,60	5,4%	940,100	940,456	938,997	1,46	764.930,877	8.185.485,532	940,078	-5,4%	7,00						9,01	938,737
874+0.000	9,50	939,336					-6,60	5,4%	940,554	940,910	939,431	1,48	764.950,636	8.185.488,615	940,532	-5,4%	7,00						8,56	939,492
875+0.000	8,88	940,283					-6,60	5,4%	941,092	941,448	940,253	1,19	764.970,524	8.185.490,707	941,070	-5,4%	7,00						7,86	940,498
876+0.000	8,69	941,038					-6,60	5,4%	941,717	942,073	940,931	1,14	764.990,492	8.185.491,803	941,695	-5,4%	7,00						7,51	941,357
877+0.000	8,73	941,561					-6,60	3,1%	942,570	942,777	941,814	0,96	765.010,490	8.185.491,929	942,558	-3,1%	6,96						7,63	942,110
878+0.000	8,28	942,403					-6,60	0,4%	943,473	943,497	942,566	0,93	765.030,480	8.185.491,328	943,363	-2,0%	6,72						7,41	942,906
879+0.000	7,23	943,668					-6,60	-2,0%	944,349	944,217	943,289	0,93	765.050,455	8.185.490,334	944,085	-2,0%	6,59						7,12	943,728
880+0.000	6,63	944,785					-6,60	-2,0%	945,070	944,938	944,626	0,31	765.070,426	8.185.489,248	944,806	-2,0%	6,60						6,70	944,740
881+0.000	7,68	944,808					-6,60	-2,0%	945,790	945,658	945,251	0,41	765.090,396	8.185.488,162	945,526	-2,0%	6,60						6,73	945,658
882+0.000	7,44	945,687					-6,60	-2,0%	946,510	946,378	945,522	0,86	765.110,367	8.185.487,076	946,246	-2,0%	6,60						7,31	945,774
883+0.000	7,60	946,303					-6,60	-2,0%	947,231	947,099	946,235	0,86	765.130,337	8.185.485,990	946,967	-2,0%	6,60						6,75	946,867
884+0.000	7,58	947,037					-6,60	-2,0%	947,951	947,819	946,851	0,97	765.150,308	8.185.484,904	947,687	-2,0%	6,60						7,18	947,302
885+0.000	7,66	947,699					-6,60	-2,0%	948,671	948,539	947,499	1,04	765.170,278	8.185.483,818	948,407	-2,0%	6,60						7,53	947,787
886+0.000	7,93	948,243					-6,60	-2,0%	949,391	949,259	948,234	1,02	765.190,249	8.185.482,732	949,127	-2,0%	6,60						7,74	948,369
887+0.000	6,63	949,879					-6,60	-2,0%	950,112	949,980	949,524	0,46	765.210,219	8.185.481,646	949,848	-2,0%	6,60						6,75	949,993
888+0.000	7,09	951,058					-6,60	-2,0%	950,832	950,700	950,707	-0,01	765.230,190	8.185.480,560	950,568	-2,0%	6,60						7,22	951,189
889+0.000	7,87	952,554					-6,60	-2,0%	951,552	951,420	951,869	-0,45	765.250,160	8.185.479,474	951,288	-2,0%	6,60						7,70	952,390
890+0.000	8,03	953,443					-6,60	-2,0%	952,273	952,141	953,595	-1,45	765.270,131	8.185.478,388	952,033	-1,6%	6,60						8,34	953,776
891+0.000	8,36	954,493					-6,60	-2,0%	952,993	952,861	954,110	-1,25	765.290,101	8.185.477,302	952,938	1,2%	6,60						8,64	954,976
892+0.000	8,97	955,689					-6,60	-4,0%	953,843	953,581	955,220	-1,64	765.310,081	8.185.476,413	953,843	4,0%	6,60						8,61	955,849
893+0.000	9,08	956,505					-6,60	-4,2%	954,579	954,302	956,386	-2,08	765.330,078	8.185.476,103	954,579	4,2%	6,60						8,74	956,720
894+0.000	9,56	957,706					-6,60	-4,2%	955,299	955,022	957,442	-2,42	765.350,075	8.185.476,381	955,299	4,2%	6,60						9,20	957,898
895+0.000	9,76	958,626					-6,60	-4,2%	956,019	955,742	958,496	-2,75	765.370,056	8.185.477,246	956,019	4,2%	6,60						9,45	958,870
896+0.000	9,49	959,077					-6,60	-4,2%	956,739	956,462	959,202	-2,74	765.390,002	8.185.478,699	956,739	4,2%	6,60						9,71	959,846
897+0.000	8,27	958,575					-6,60	-4,2%	957,460	957,183	959,175	-1,99	765.409,897	8.185.480,738	957,460	4,2%	6,60						8,90	959,760
898+0.000	7,35	958,513					-6,60	-2,1%	958,039	957,903	958,991	-1,09	765.429,724	8.185.483,361	958,039	2,1%	6,60						7,97	959,412
899+0.000	7,26	958,053					-6,60	-2,0%	958,755	958,623	958,674	-0,05	765.449,499	8.185.486,350	958,574	-0,7%	6,60						7,04	959,012
900+0.000	8,73	957,789					-6,60	-2,0%	959,476	959,344	958,558	0,79	765.469,274	8.185.489,344	959,212	-2,0%	6,60						6,76	959,103
901+0.000	9,62	957,916					-6,60	-2,0%	960,196	960,064	958,628	1,44	765.489,048	8.185.492,338	959,932	-2,0%	6,60						7,82	959,122



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset				
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl		
	1		2		3		4			5				6			7				8		9		
902+0.000	9,82	958,506					-6,60	-2,0%	960,916	960,784	959,056	1,73	765.508,823	8.185.495,333	960,652	-2,0%	6,60							9,18	958,931
903+0.000	9,39	959,511					-6,60	-2,0%	961,636	961,504	959,834	1,67	765.528,597	8.185.498,327	961,372	-2,0%	6,60							9,17	959,661
904+0.000	8,03	961,141					-6,60	-2,0%	962,357	962,225	960,383	1,84	765.548,372	8.185.501,321	962,093	-2,0%	6,60							9,48	960,173
905+0.000	7,59	962,155					-6,60	-2,0%	963,077	962,945	961,109	1,84	765.568,147	8.185.504,315	962,813	-2,0%	6,60							9,26	961,038
906+0.000	7,88	962,684					-6,60	-2,0%	963,797	963,665	962,035	1,63	765.587,921	8.185.507,309	963,533	-2,0%	6,60							10,72	960,786
907+0.000	8,46	963,012					-6,60	-2,0%	964,518	964,386	962,251	2,13	765.607,696	8.185.510,303	964,254	-2,0%	6,60							15,67	958,211
908+0.000	8,93	963,420					-6,60	-2,0%	965,238	965,106	962,735	2,37	765.627,470	8.185.513,298	964,974	-2,0%	6,60							17,55	957,674
909+0.000	8,54	964,344					-6,60	-2,0%	965,901	965,769	964,188	1,58	765.647,245	8.185.516,292	965,637	-2,0%	6,60							13,92	960,760
910+0.000	6,76	966,064					-6,60	-2,0%	966,436	966,304	966,174	0,13	765.667,020	8.185.519,286	966,172	-2,0%	6,60							7,48	965,587
911+0.000	7,92	967,898					-6,60	-2,0%	966,843	966,711	967,915	-1,20	765.686,794	8.185.522,280	966,579	-2,0%	6,60							8,79	968,764
912+0.000	9,32	969,576					-6,60	-2,0%	967,122	966,990	969,333	-2,34	765.706,569	8.185.525,274	966,905	-1,3%	6,60							10,39	970,694
913+0.000	9,43	969,725					-6,71	-2,0%	967,275	967,141	970,476	-3,34	765.726,342	8.185.528,277	967,240	1,5%	6,60							11,75	972,387
914+0.000	9,76	969,397					-7,22	-4,3%	967,474	967,164	970,980	-3,82	765.746,052	8.185.531,662	967,447	4,3%	6,60							12,04	972,883
915+0.000	9,53	968,745					-7,40	-6,0%	967,503	967,059	970,985	-3,93	765.765,507	8.185.536,273	967,455	6,0%	6,60							11,63	972,484
916+0.000	9,53	968,514					-7,40	-6,0%	967,270	966,826	970,975	-4,15	765.784,474	8.185.542,598	967,222	6,0%	6,60							10,97	971,596
917+0.000	11,07	969,693					-7,40	-6,0%	966,909	966,465	970,941	-4,48	765.802,788	8.185.550,618	966,861	6,0%	6,60							10,96	971,218
918+0.000	11,66	969,795					-7,40	-6,0%	966,419	965,975	970,040	-4,06	765.820,298	8.185.560,268	966,371	6,0%	6,60							10,31	970,079
919+0.000	10,33	967,846					-7,40	-6,0%	965,802	965,358	968,656	-3,30	765.836,860	8.185.571,467	965,754	6,0%	6,60							9,38	968,533
920+0.000	8,12	965,053					-7,31	-5,0%	964,978	964,613	966,356	-1,74	765.852,341	8.185.584,119	964,942	5,0%	6,60							8,21	966,553
921+0.000	6,93	963,506					-6,81	-2,2%	963,890	963,740	965,008	-1,27	765.866,868	8.185.597,862	963,885	2,2%	6,60							7,68	964,971
922+0.000	7,46	963,469					-6,60	-2,0%	962,871	962,739	964,182	-1,44	765.880,986	8.185.612,028	962,700	-0,6%	6,60							8,11	964,213
923+0.000	9,60	964,473					-6,60	-2,0%	961,742	961,610	964,077	-2,47	765.895,077	8.185.626,222	961,478	-2,0%	6,60							8,88	963,757
924+0.000	9,27	962,947					-6,60	-2,0%	960,542	960,410	962,951	-2,54	765.909,167	8.185.640,416	960,278	-2,0%	6,60							9,55	963,226
925+0.000	9,92	962,394					-6,60	-2,0%	959,342	959,210	961,204	-1,99	765.923,257	8.185.654,609	959,078	-2,0%	6,60							7,79	960,270
926+0.000	8,11	959,390					-6,60	-2,0%	958,142	958,010	959,398	-1,39	765.937,348	8.185.668,803	957,878	-2,0%	6,60							8,05	959,327
927+0.000	7,28	957,459					-6,60	-0,5%	956,840	956,810	957,885	-1,08	765.951,460	8.185.682,975	956,673	-2,0%	6,85							8,47	958,291
928+0.000	6,81	955,974					-6,60	2,3%	955,456	955,610	956,626	-1,02	765.965,854	8.185.696,860	955,448	-2,3%	6,91							9,23	957,774
929+0.000	7,25	955,397					-6,60	5,1%	954,071	954,410	955,678	-1,27	765.980,907	8.185.710,023	954,044	-5,1%	7,13							9,96	956,874
930+0.000	7,49	954,498					-6,60	6,0%	952,814	953,210	954,732	-1,52	765.996,918	8.185.721,998	952,778	-6,0%	7,20							9,81	955,389
931+0.000	8,12	953,926					-6,60	6,0%	951,614	952,010	953,685	-1,67	766.013,906	8.185.732,540	951,578	-6,0%	7,20							9,30	953,680
932+0.000	8,10	952,709					-6,60	6,0%	950,414	950,810	952,283	-1,47	766.031,746	8.185.741,567	950,378	-6,0%	7,20							8,79	951,971
933+0.000	7,10	950,410					-6,60	4,5%	949,313	949,611	950,215	-0,60	766.050,298	8.185.749,023	949,293	-4,5%	7,03							7,81	950,071
934+0.000	7,22	948,206					-6,60	1,7%	948,394	948,508	948,037	0,47	766.069,335	8.185.755,145	948,369	-2,0%	6,93							7,72	947,842
935+0.000	8,10	946,487					-6,60	-1,1%	947,630	947,560	946,183	1,38	766.088,618	8.185.760,450	947,428	-2,0%	6,60							9,14	945,736
936+0.000	9,03	945,017					-6,60	-2,0%	946,900	946,768	944,289	2,48	766.107,975	8.185.765,479	946,636	-2,0%	6,60							12,41	942,764
937+0.000	10,72	943,252					-6,60	-2,0%	946,263	946,131	942,548	3,58	766.127,335	8.185.770,498	945,999	-2,0%	6,60							13,85	941,164
938+0.000	13,47	940,940					-6,60	-2,0%	945,781	945,649	941,029	4,62	766.146,695	8.185.775,517	945,517	-2,0%	6,60							17,73	938,097
939+0.000	16,96	938,283					-6,60	-2,0%	945,454	945,322	939,647	5,67	766.166,055	8.185.780,536	945,190	-2,0%	6,60	18,60	937,190	21,60	937,280			25,22	934,870
940+0.000	21,94	936,882					-6,60	-2,0%	945,283	945,151	939,154	6,00	766.185,415	8.185.785,555	945,019	-2,0%	6,60	18,60	937,019	21,60	937,109			27,33	933,288
941+0.000	17,12	937,988					-6,60	-2,0%	945,267	945,135	939,364	5,77	766.204,775	8.185.790,575	945,003	-2,0%	6,60							18,03	937,382
942+0.000	14,40	939,942					-6,60	-2,0%	945,407	945,275	940,291	4,98	766.224,135	8.185.795,594	945,143	-2,0%	6,60							13,35	940,641



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
943+0.000	11,37	942,258					-6,60	-2,0%	945,701	945,569	941,400	4,17	766.243,495	8.185.800,613	945,437	-2,0%	6,60						11,41	942,230
944+0.000	8,86	944,379					-6,60	-2,0%	946,151	946,019	943,001	3,02	766.262,855	8.185.805,632	945,887	-2,0%	6,60						10,16	943,516
945+0.000	7,32	946,010					-6,60	-2,0%	946,757	946,625	944,832	1,79	766.282,215	8.185.810,651	946,493	-2,0%	6,60						8,52	945,215
946+0.000	7,21	946,844					-6,60	-2,0%	947,517	947,385	946,524	0,86	766.301,575	8.185.815,670	947,253	-2,0%	6,60						7,73	946,504
947+0.000	7,32	948,890					-6,60	-2,0%	948,433	948,301	948,157	0,14	766.320,935	8.185.820,689	948,169	-2,0%	6,60						6,88	948,450
948+0.000	7,51	950,153					-6,60	-2,0%	949,505	949,373	949,453	-0,08	766.340,295	8.185.825,708	949,241	-2,0%	6,60						6,64	949,212
949+0.000	7,10	950,804					-6,76	-2,0%	950,733	950,598	950,526	0,07	766.359,645	8.185.830,767	950,587	-0,2%	6,60						7,15	950,218
950+0.000	7,05	951,850					-6,90	-2,6%	952,062	951,883	951,749	0,13	766.378,903	8.185.836,162	952,054	2,6%	6,60						6,99	952,441
951+0.000	7,46	953,100					-7,14	-5,4%	953,550	953,168	953,108	0,06	766.397,939	8.185.842,289	953,521	5,4%	6,60						6,74	953,428
952+0.000	7,78	954,619					-7,20	-5,8%	954,870	954,452	954,928	-0,48	766.416,593	8.185.849,492	954,835	5,8%	6,60						7,33	955,562
953+0.000	8,99	957,107					-7,20	-5,8%	956,155	955,737	957,323	-1,59	766.434,762	8.185.857,846	956,120	5,8%	6,60						9,25	958,768
954+0.000	9,55	958,951					-7,20	-5,8%	957,434	957,016	960,025	-3,01	766.452,373	8.185.867,318	957,399	5,8%	6,60						11,33	962,132
955+0.000	10,37	960,884					-7,20	-5,8%	958,546	958,128	963,883	-5,76	766.469,358	8.185.877,871	958,511	5,8%	6,60						14,18	966,090
956+0.000	10,63	962,008					-7,20	-5,8%	959,415	958,997	964,893	-5,90	766.485,650	8.185.889,465	959,380	5,8%	6,60						14,01	966,786
957+0.000	10,69	962,694					-7,20	-5,8%	960,042	959,624	964,544	-4,92	766.501,187	8.185.902,054	960,007	5,8%	6,60						11,98	965,386
958+0.000	10,44	962,834					-7,20	-5,8%	960,427	960,009	964,069	-4,06	766.515,907	8.185.915,589	960,392	5,8%	6,60						10,92	964,709
959+0.000	9,62	962,157					-7,20	-5,8%	960,570	960,152	963,237	-3,08	766.529,753	8.185.930,017	960,535	5,8%	6,60						8,87	962,806
960+0.000	8,62	961,056					-7,20	-5,8%	960,471	960,053	961,303	-1,25	766.542,671	8.185.945,281	960,436	5,8%	6,60						7,43	959,885
961+0.000	7,74	959,982					-7,11	-5,0%	960,070	959,712	959,745	-0,03	766.554,612	8.185.961,321	960,045	5,0%	6,60						9,46	958,139
962+0.000	6,94	958,941					-6,89	-2,3%	959,284	959,128	958,594	0,53	766.565,646	8.185.978,000	959,278	2,3%	6,60						8,08	958,292
963+0.000	7,67	957,613					-6,83	-2,0%	958,445	958,308	957,675	0,63	766.576,075	8.185.995,065	958,276	-0,5%	6,60						7,48	957,691
964+0.000	7,73	956,530					-6,60	-2,0%	957,546	957,414	956,788	0,63	766.586,245	8.186.012,286	957,282	-2,0%	6,60						7,21	956,878
965+0.000	7,91	955,512					-6,60	-2,0%	956,651	956,519	955,600	0,92	766.596,392	8.186.029,520	956,387	-2,0%	6,60						7,30	955,922
966+0.000	8,45	954,262					-6,60	-2,0%	955,757	955,625	954,838	0,79	766.606,540	8.186.046,755	955,493	-2,0%	6,60						7,76	954,720
967+0.000	8,67	953,222					-6,60	-2,0%	954,863	954,731	953,453	1,28	766.616,687	8.186.063,990	954,599	-2,0%	6,60						8,02	953,652
968+0.000	8,81	952,277					-6,60	-2,0%	954,015	953,883	952,548	1,34	766.626,834	8.186.081,224	953,751	-2,0%	6,60						8,32	952,603
969+0.000	9,76	950,908					-6,60	-2,0%	953,277	953,145	951,408	1,74	766.636,982	8.186.098,459	953,013	-2,0%	6,60						8,75	951,582
970+0.000	9,66	950,342					-6,60	-2,0%	952,648	952,516	950,656	1,86	766.647,129	8.186.115,693	952,384	-2,0%	6,60						9,58	950,400
971+0.000	11,27	948,751					-6,60	-2,0%	952,129	951,997	948,928	3,07	766.657,277	8.186.132,928	951,865	-2,0%	6,60						10,31	949,392
972+0.000	11,67	948,076					-6,60	-2,0%	951,718	951,586	948,663	2,92	766.667,424	8.186.150,163	951,454	-2,0%	6,60						11,03	948,500
973+0.000	12,40	947,289					-6,60	-2,0%	951,417	951,285	947,814	3,47	766.677,571	8.186.167,397	951,153	-2,0%	6,60						11,80	947,690
974+0.000	12,57	946,980					-6,60	-2,0%	951,225	951,093	947,358	3,74	766.687,719	8.186.184,632	950,961	-2,0%	6,60						12,41	947,088
975+0.000	13,12	946,534					-6,60	-2,0%	951,143	951,011	947,237	3,77	766.697,866	8.186.201,866	950,879	-2,0%	6,60						12,61	946,874
976+0.000	12,26	947,138					-6,60	-1,9%	951,160	951,037	947,462	3,58	766.708,013	8.186.219,101	950,905	-2,0%	6,60						12,42	947,028
977+0.000	11,45	947,998					-6,60	0,9%	951,112	951,173	948,049	3,12	766.718,161	8.186.236,336	951,041	-2,0%	6,60						11,35	947,871
978+0.000	10,18	949,278					-6,60	3,7%	951,172	951,418	949,258	2,16	766.728,448	8.186.253,486	951,172	-3,7%	6,60						9,98	948,920
979+0.000	8,93	950,449					-6,60	4,2%	951,448	951,725	950,075	1,65	766.739,232	8.186.270,329	951,448	-4,2%	6,60						8,49	950,186
980+0.000	7,16	951,935					-6,60	4,2%	951,755	952,032	951,489	0,54	766.750,521	8.186.286,837	951,755	-4,2%	6,60						6,67	951,819
981+0.000	7,35	953,366					-6,60	4,2%	952,062	952,339	953,012	-0,67	766.762,306	8.186.302,996	952,062	-4,2%	6,60						8,02	953,478
982+0.000	8,14	954,458					-6,60	4,2%	952,369	952,646	954,395	-1,75	766.774,574	8.186.318,790	952,369	-4,2%	6,60						9,40	955,173
983+0.000	8,95	955,582					-6,60	4,2%	952,676	952,953	955,651	-2,70	766.787,316	8.186.334,205	952,676	-4,2%	6,60						10,40	956,478



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset				
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl		
	1		2		3		4			5				6			7				8		9		
984+0.000	9,44	956,381					-6,60	4,2%	952,984	953,261	956,558	-3,30	766.800,519	8.186.349,227	952,984	-4,2%	6,60							11,11	957,492
985+0.000	10,12	957,369					-6,60	4,2%	953,291	953,568	957,560	-3,99	766.814,170	8.186.363,842	953,291	-4,2%	6,60							12,08	958,774
986+0.000	10,42	957,820					-6,60	2,0%	953,745	953,875	958,540	-4,66	766.828,259	8.186.378,036	953,743	-2,0%	6,60							13,11	960,256
987+0.000	10,84	958,368					-6,60	-0,8%	954,237	954,182	959,316	-5,13	766.842,603	8.186.391,974	954,050	-2,0%	6,60							13,22	960,669
988+0.000	11,10	958,852					-6,60	-2,0%	954,621	954,489	959,864	-5,38	766.856,949	8.186.405,908	954,357	-2,0%	6,60							13,58	961,338
989+0.000	10,04	958,108					-6,60	-2,0%	954,929	954,797	959,210	-4,41	766.871,296	8.186.419,843	954,665	-2,0%	6,60							12,75	960,815
990+0.000	9,20	957,574					-6,60	-2,0%	955,236	955,104	958,523	-3,42	766.885,642	8.186.433,778	954,972	-2,0%	6,60							11,68	960,049
991+0.000	7,95	956,625					-6,60	-2,0%	955,543	955,411	957,233	-1,82	766.899,988	8.186.447,713	955,279	-2,0%	6,60							9,55	958,227
992+0.000	6,83	955,820					-6,60	-2,0%	955,850	955,718	956,381	-0,66	766.914,335	8.186.461,648	955,586	-2,0%	6,60							8,28	957,263
993+0.000	7,92	955,011					-6,60	-2,0%	956,157	956,025	955,443	0,58	766.928,681	8.186.475,583	955,893	-2,0%	6,60							6,88	955,705
994+0.000	9,49	954,271					-6,60	-2,0%	956,464	956,332	954,355	1,98	766.943,027	8.186.489,518	956,200	-2,0%	6,60							9,18	954,479
995+0.000	10,51	953,901					-6,60	-2,0%	956,772	956,640	953,810	2,83	766.957,374	8.186.503,453	956,508	-2,0%	6,60							10,70	953,777
996+0.000	11,12	953,803					-6,60	-2,0%	957,079	956,947	953,592	3,36	766.971,720	8.186.517,388	956,815	-2,0%	6,60							11,71	953,410
997+0.000	11,20	954,055					-6,60	-2,0%	957,386	957,254	954,305	2,95	766.986,066	8.186.531,323	957,122	-2,0%	6,60							10,64	954,431
998+0.000	10,75	954,661					-6,60	-2,0%	957,693	957,561	954,977	2,58	767.000,413	8.186.545,258	957,429	-2,0%	6,60							9,93	955,212
999+0.000	9,10	956,072					-6,60	-2,0%	958,001	957,869	956,159	1,71	767.014,759	8.186.559,193	957,737	-2,0%	6,60							8,53	956,447
1000+0.000	7,93	957,202					-6,60	-2,0%	958,350	958,218	957,194	1,02	767.029,105	8.186.573,128	958,086	-2,0%	6,60							7,83	957,268
1001+0.000	7,43	957,958					-6,60	-2,0%	958,777	958,645	958,125	0,52	767.043,452	8.186.587,063	958,513	-2,0%	6,60							6,60	958,515
1002+0.000	6,63	958,997					-6,60	-2,0%	959,280	959,148	958,939	0,21	767.057,798	8.186.600,998	959,016	-2,0%	6,60							6,64	958,987
1003+0.000	7,08	959,277					-6,60	-2,0%	959,861	959,729	959,177	0,55	767.072,144	8.186.614,933	959,597	-2,0%	6,60							7,96	958,689
1004+0.000	7,04	959,961					-6,60	-2,0%	960,519	960,387	959,602	0,78	767.086,491	8.186.628,868	960,255	-2,0%	6,60							8,47	959,007
1005+0.000	7,26	960,553					-6,60	-2,0%	961,255	961,123	960,500	0,62	767.100,837	8.186.642,803	960,991	-2,0%	6,60							8,37	959,809
1006+0.000	7,12	961,412					-6,60	-2,0%	962,025	961,893	960,999	0,89	767.115,183	8.186.656,738	961,761	-2,0%	6,60							9,48	959,844
1007+0.000	7,56	961,892					-6,60	-2,0%	962,795	962,663	961,797	0,87	767.129,530	8.186.670,672	962,531	-2,0%	6,60							8,23	961,446
1008+0.000	8,01	962,362					-6,60	-2,0%	963,565	963,433	962,503	0,93	767.143,876	8.186.684,607	963,301	-2,0%	6,60							8,77	961,854
1009+0.000	8,00	963,141					-6,60	-2,0%	964,335	964,203	963,286	0,92	767.158,222	8.186.698,542	964,071	-2,0%	6,60							8,75	962,640
1010+0.000	8,33	963,691					-6,60	-2,0%	965,106	964,974	963,974	1,00	767.172,569	8.186.712,477	964,842	-2,0%	6,60							7,99	963,918
1011+0.000	8,30	964,482					-6,60	-2,0%	965,876	965,744	964,540	1,20	767.186,915	8.186.726,412	965,612	-2,0%	6,60							7,50	965,009
1012+0.000	8,91	964,841					-6,60	-2,0%	966,646	966,514	964,949	1,57	767.201,261	8.186.740,347	966,382	-2,0%	6,60							7,99	965,456
1013+0.000	9,10	965,648					-6,60	0,4%	967,256	967,284	966,337	0,95	767.215,620	8.186.754,269	967,147	-2,0%	6,86							8,63	965,967
1014+0.000	8,85	966,766					-6,60	3,2%	967,843	968,055	966,684	1,37	767.230,297	8.186.767,853	967,828	-3,2%	7,07							9,06	966,502
1015+0.000	7,38	968,700					-6,60	6,0%	968,429	968,825	968,592	0,23	767.245,843	8.186.780,425	968,381	-6,0%	7,40							9,21	967,172
1016+0.000	7,61	969,319					-6,60	6,0%	969,199	969,595	968,907	0,69	767.262,604	8.186.791,319	969,151	-6,0%	7,40							8,87	968,172
1017+0.000	6,96	970,546					-6,60	6,0%	969,994	970,390	970,085	0,30	767.280,469	8.186.800,286	969,946	-6,0%	7,40							8,76	969,040
1018+0.000	6,84	971,910					-6,60	6,0%	970,874	971,270	970,196	1,07	767.299,218	8.186.807,218	970,826	-6,0%	7,40							8,45	970,124
1019+0.000	8,19	971,569					-6,60	6,0%	971,840	972,236	970,896	1,34	767.318,621	8.186.812,028	971,792	-6,0%	7,40							9,51	970,386
1020+0.000	9,83	971,535					-6,60	6,0%	972,893	973,289	971,201	2,09	767.338,437	8.186.814,656	972,845	-6,0%	7,40							13,75	968,609
1021+0.000	10,91	971,950					-6,60	6,0%	974,033	974,429	971,835	2,59	767.358,422	8.186.815,072	973,985	-6,0%	7,40							12,09	970,856
1022+0.000	11,30	972,893					-6,60	6,0%	975,234	975,630	972,914	2,72	767.378,331	8.186.813,268	975,186	-6,0%	7,40							11,47	972,473
1023+0.000	11,00	974,298					-6,60	6,0%	976,438	976,834	974,615	2,22	767.397,916	8.186.809,269	976,390	-6,0%	7,40							11,49	973,664
1024+0.000	9,91	976,228					-6,60	6,0%	977,642	978,038	976,441	1,60	767.416,937	8.186.803,122	977,594	-6,0%	7,40							10,32	975,651



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1025+0.000	8,52	978,358					-6,60	6,0%	978,846	979,242	978,121	1,12	767.435,160	8.186.794,904	978,798	-6,0%	7,40						9,87	977,153
1026+0.000	7,49	980,251					-6,60	6,0%	980,050	980,446	979,995	0,45	767.452,358	8.186.784,716	980,002	-6,0%	7,40						10,23	978,117
1027+0.000	6,75	982,193					-6,60	6,0%	981,254	981,650	981,663	-0,01	767.468,321	8.186.772,684	981,206	-6,0%	7,40						9,95	979,505
1028+0.000	7,30	983,881					-6,60	5,0%	982,526	982,855	983,567	-0,71	767.482,857	8.186.758,961	982,490	-5,0%	7,31						9,68	980,909
1029+0.000	7,75	985,357					-6,60	2,2%	983,914	984,059	984,518	-0,46	767.496,057	8.186.743,942	983,905	-2,2%	7,00						12,20	980,439
1030+0.000	8,27	986,892					-6,60	-0,6%	985,302	985,263	986,190	-0,93	767.508,484	8.186.728,272	985,130	-2,0%	6,68						12,82	981,034
1031+0.000	8,05	987,787					-6,60	-2,0%	986,599	986,467	987,000	-0,53	767.520,740	8.186.712,468	986,335	-2,0%	6,60						12,92	982,124
1032+0.000	7,85	988,790					-6,60	-2,0%	987,803	987,671	987,337	0,33	767.532,996	8.186.696,663	987,539	-2,0%	6,60						12,80	983,409
1033+0.000	7,69	989,832					-6,60	-2,0%	989,007	988,875	989,109	-0,23	767.545,252	8.186.680,858	988,743	-2,0%	6,60						11,65	985,376
1034+0.000	7,64	990,982					-6,60	-2,0%	990,211	990,079	990,212	-0,13	767.557,508	8.186.665,053	989,947	-2,0%	6,60						10,00	987,683
1035+0.000	7,67	992,219					-6,60	-2,0%	991,415	991,283	992,035	-0,75	767.569,764	8.186.649,248	991,164	-1,8%	6,60						8,06	990,189
1036+0.000	7,37	993,125					-6,60	-2,0%	992,619	992,487	992,974	-0,49	767.582,021	8.186.633,444	992,552	1,0%	6,60						7,86	991,712
1037+0.000	8,47	995,309					-6,60	-3,8%	993,941	993,691	994,313	-0,62	767.594,504	8.186.617,819	993,940	3,8%	6,60						6,77	993,825
1038+0.000	22,01	1006,995					-6,60	-6,0%	995,291	994,895	995,321	-0,43	767.607,900	8.186.602,977	995,291	6,0%	6,60						6,89	995,100
1039+0.000	23,69	1009,803					-6,60	-6,0%	996,417	996,021	996,241	-0,22	767.622,653	8.186.589,485	996,417	6,0%	6,60						6,86	996,242
1040+0.000	23,25	1010,270					-6,60	-6,0%	997,326	996,930	997,020	-0,09	767.638,679	8.186.577,534	997,326	6,0%	6,60						7,81	990,652
1041+0.000	22,05	1009,864					-6,60	-4,5%	997,917	997,619	997,538	0,08	767.655,805	8.186.567,220	997,917	4,5%	6,60						15,03	992,294
1042+0.000	7,28	997,507					-6,60	-2,0%	998,221	998,089	996,601	1,49	767.673,638	8.186.558,170	998,203	1,7%	6,60						16,88	991,349
1043+0.000	7,46	997,637					-6,60	-2,0%	998,472	998,340	995,920	2,42	767.691,690	8.186.549,559	998,269	-1,1%	6,60						8,28	997,148
1044+0.000	6,67	998,310					-6,60	-2,0%	998,504	998,372	1000,994	-2,62	767.709,748	8.186.540,963	998,240	-2,0%	6,60						14,22	1005,858
1045+0.000	9,42	1000,869					-6,60	-2,0%	998,316	998,184	1004,910	-6,73	767.727,807	8.186.532,367	998,052	-2,0%	6,60	14,60	1006,052	17,60	1006,142	20,99	1009,531	
1046+0.000	10,87	1001,915					-6,60	-2,0%	997,909	997,777	1005,190	-7,41	767.745,865	8.186.523,772	997,645	-2,0%	6,60	14,60	1005,645	17,60	1005,735	20,53	1008,666	
1047+0.000	8,31	998,727					-6,60	-2,0%	997,282	997,150	1001,252	-4,10	767.763,924	8.186.515,176	997,018	-2,0%	6,60						12,71	1003,124
1048+0.000	7,37	995,741					-6,60	-2,0%	996,515	996,383	997,611	-1,23	767.781,983	8.186.506,580	996,251	-2,0%	6,60						8,71	998,358
1049+0.000	9,87	993,299					-6,60	-2,0%	995,745	995,613	993,519	2,09	767.800,041	8.186.497,984	995,481	-2,0%	6,60						9,22	993,733
1050+0.000	11,87	991,200					-6,60	-2,0%	994,975	994,843	991,306	3,54	767.818,100	8.186.489,389	994,711	-2,0%	6,60						11,19	991,649
1051+0.000	14,99	988,351					-6,60	-2,0%	994,205	994,073	990,028	4,04	767.836,159	8.186.480,793	993,941	-2,0%	6,60						12,17	990,231
1052+0.000	15,10	987,502					-6,60	-2,0%	993,435	993,303	989,324	3,98	767.854,217	8.186.472,197	993,171	-2,0%	6,60						12,12	989,491
1053+0.000	14,31	987,259					-6,60	-2,0%	992,665	992,533	989,069	3,46	767.872,276	8.186.463,602	992,401	-2,0%	6,60						9,81	990,026
1054+0.000	12,81	987,490					-6,60	-2,0%	991,895	991,763	988,987	2,78	767.890,334	8.186.455,006	991,631	-2,0%	6,60						7,61	990,096
1055+0.000	11,14	987,838					-6,60	-2,0%	991,125	990,993	989,212	1,78	767.908,393	8.186.446,410	990,861	-2,0%	6,60						8,52	992,779
1056+0.000	11,34	986,989					-6,60	-2,0%	990,414	990,282	989,098	1,18	767.926,452	8.186.437,814	990,150	-2,0%	6,60						11,17	994,719
1057+0.000	12,69	985,541					-6,60	-2,0%	989,865	989,733	988,328	1,40	767.944,510	8.186.429,219	989,601	-2,0%	6,60						10,64	993,637
1058+0.000	16,65	982,518					-6,60	-2,0%	989,479	989,347	985,845	3,50	767.962,569	8.186.420,623	989,215	-2,0%	6,60						9,11	987,544
1059+0.000	17,83	981,508					-6,60	-2,0%	989,258	989,126	984,223	4,90	767.980,627	8.186.412,027	988,997	-2,0%	6,60						17,60	981,665
1060+0.000	17,67	981,598					-6,66	-2,0%	989,201	989,068	983,460	5,61	767.998,686	8.186.403,432	989,123	0,8%	6,60	18,60	981,123	21,60	981,213	23,76	979,771	
1061+0.000	16,49	982,544					-6,92	-3,6%	989,424	989,173	983,296	5,88	768.016,821	8.186.394,999	989,412	3,6%	6,60	18,60	981,413	21,60	981,503	22,96	980,598	
1062+0.000	15,19	983,685					-7,20	-6,0%	989,875	989,443	983,793	5,65	768.035,284	8.186.387,318	989,839	6,0%	6,60						17,16	982,801
1063+0.000	14,10	984,847					-7,20	-6,0%	990,308	989,876	984,915	4,96	768.054,224	8.186.380,906	990,272	6,0%	6,60						15,02	984,658
1064+0.000	12,44	986,550					-7,20	-6,0%	990,906	990,474	986,830	3,64	768.073,573	8.186.375,861	990,870	6,0%	6,60						13,46	986,298
1065+0.000	11,80	987,737					-7,20	-6,0%	991,667	991,235	988,341	2,89	768.093,232	8.186.372,210	991,631	6,0%	6,60						11,83	988,146



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
1066+0.000	9,74	990,033					-7,20	-6,0%	992,591	992,159	990,654	1,51	768.113,102	8.186.369,971	992,555	6,0%	6,60						7,36	992,049
1067+0.000	8,33	992,061					-7,20	-6,0%	993,680	993,248	992,512	0,74	768.133,082	8.186.369,156	993,644	6,0%	6,60						7,04	993,354
1068+0.000	8,13	993,388					-7,20	-6,0%	994,874	994,442	994,107	0,34	768.153,068	8.186.369,769	994,838	6,0%	6,60						7,32	994,358
1069+0.000	7,78	994,809					-7,09	-5,2%	996,004	995,637	995,504	0,13	768.172,960	8.186.371,804	995,979	5,2%	6,60						7,36	995,474
1070+0.000	7,07	996,888					-6,85	-2,4%	996,997	996,833	997,279	-0,45	768.192,701	8.186.375,005	996,991	2,4%	6,60						7,30	997,685
1071+0.000	7,83	999,121					-6,60	-2,0%	998,160	998,028	999,547	-1,52	768.212,355	8.186.378,705	998,001	-0,4%	6,60						9,27	1000,671
1072+0.000	8,75	1001,243					-6,60	-2,0%	999,356	999,224	1002,611	-3,39	768.232,002	8.186.382,446	999,092	-2,0%	6,60						13,36	1005,848
1073+0.000	9,61	1003,299					-6,60	-2,0%	1000,551	1000,419	1006,062	-5,64	768.251,649	8.186.386,186	1000,287	-2,0%	6,60						13,62	1007,307
1074+0.000	10,44	1005,320					-6,60	-2,0%	1001,746	1001,614	1007,894	-6,28	768.271,296	8.186.389,927	1001,482	-2,0%	6,60						13,57	1008,449
1075+0.000	10,86	1006,935					-6,60	-2,0%	1002,942	1002,810	1007,890	-5,08	768.290,943	8.186.393,668	1002,678	-2,0%	6,60						12,84	1008,918
1076+0.000	9,83	1007,099					-6,60	-2,0%	1004,137	1004,005	1008,117	-4,11	768.310,591	8.186.397,409	1003,873	-2,0%	6,60						11,75	1009,023
1077+0.000	9,00	1007,471					-6,60	-2,0%	1005,333	1005,201	1008,505	-3,30	768.330,238	8.186.401,150	1005,069	-2,0%	6,60						10,74	1009,208
1078+0.000	8,44	1008,105					-6,60	-2,0%	1006,528	1006,396	1008,893	-2,50	768.349,885	8.186.404,890	1006,264	-2,0%	6,60						9,79	1009,450
1079+0.000	7,73	1008,590					-6,60	-2,0%	1007,724	1007,592	1009,162	-1,57	768.369,532	8.186.408,631	1007,460	-2,0%	6,60						9,00	1009,857
1080+0.000	7,08	1009,140					-6,60	-2,0%	1008,919	1008,787	1009,622	-0,83	768.389,179	8.186.412,372	1008,655	-2,0%	6,60						8,29	1010,343
1081+0.000	6,61	1009,788					-6,60	-2,0%	1010,042	1009,910	1009,936	-0,03	768.408,826	8.186.416,113	1009,778	-2,0%	6,60						7,66	1010,839
1082+0.000	6,94	1010,541					-6,60	-2,0%	1011,028	1010,896	1010,786	0,11	768.428,473	8.186.419,853	1010,764	-2,0%	6,60						7,49	1011,656
1083+0.000	7,57	1010,971					-6,60	-2,0%	1011,878	1011,746	1011,224	0,52	768.448,120	8.186.423,594	1011,614	-2,0%	6,60						6,84	1011,454
1084+0.000	7,46	1011,752					-6,60	-2,0%	1012,591	1012,459	1011,951	0,51	768.467,767	8.186.427,335	1012,327	-2,0%	6,60						7,11	1011,990
1085+0.000	7,13	1012,548					-6,60	-2,0%	1013,168	1013,036	1012,787	0,25	768.487,414	8.186.431,076	1012,904	-2,0%	6,60						7,72	1012,155
1086+0.000	6,91	1013,136					-6,60	-2,0%	1013,608	1013,476	1013,456	0,02	768.507,061	8.186.434,816	1013,344	-2,0%	6,60						7,00	1013,080
1087+0.000	6,69	1013,733					-6,60	-2,0%	1013,911	1013,779	1013,976	-0,20	768.526,708	8.186.438,557	1013,647	-2,0%	6,60						7,07	1013,333
1088+0.000	7,04	1014,258					-6,60	-2,0%	1014,078	1013,946	1014,566	-0,62	768.546,355	8.186.442,298	1013,814	-2,0%	6,60						6,69	1013,906
1089+0.000	7,37	1014,690					-6,60	-2,0%	1014,181	1014,049	1014,855	-0,81	768.566,002	8.186.446,039	1013,917	-2,0%	6,60						7,46	1013,346
1090+0.000	7,50	1014,921					-6,60	-2,0%	1014,284	1014,152	1014,714	-0,56	768.585,648	8.186.449,784	1014,157	0,1%	6,60						7,55	1013,524
1091+0.000	7,69	1015,156					-6,60	-2,8%	1014,442	1014,255	1014,409	-0,15	768.605,265	8.186.453,680	1014,442	2,8%	6,60						7,30	1013,974
1092+0.000	7,09	1014,557					-6,60	-4,4%	1014,647	1014,357	1013,628	0,73	768.624,784	8.186.458,037	1014,647	4,4%	6,60						7,45	1015,498
1093+0.000	7,15	1013,806					-6,60	-4,4%	1014,750	1014,460	1014,560	-0,10	768.644,149	8.186.463,032	1014,750	4,4%	6,60						7,26	1015,409
1094+0.000	6,73	1014,184					-6,60	-4,4%	1014,853	1014,563	1014,891	-0,33	768.663,337	8.186.468,670	1014,853	4,4%	6,60						6,90	1015,153
1095+0.000	7,11	1014,037					-6,60	-4,4%	1014,956	1014,666	1014,582	0,08	768.682,326	8.186.474,945	1014,956	4,4%	6,60						6,71	1014,882
1096+0.000	7,82	1013,665					-6,60	-4,4%	1015,059	1014,769	1014,100	0,67	768.701,096	8.186.481,849	1015,059	4,4%	6,60						7,42	1014,512
1097+0.000	8,32	1013,437					-6,60	-4,4%	1015,162	1014,872	1013,789	1,08	768.719,625	8.186.489,374	1015,162	4,4%	6,60						8,07	1014,181
1098+0.000	9,01	1013,076					-6,60	-4,4%	1015,264	1014,974	1013,606	1,37	768.737,893	8.186.497,513	1015,264	4,4%	6,60						8,47	1014,016
1099+0.000	9,41	1012,915					-6,60	-4,4%	1015,367	1015,077	1013,410	1,67	768.755,880	8.186.506,256	1015,367	4,4%	6,60						8,83	1013,883
1100+0.000	9,63	1012,952					-6,60	-3,1%	1015,386	1015,180	1013,309	1,87	768.773,568	8.186.515,589	1015,386	3,1%	6,60						8,89	1013,857
1101+0.000	9,37	1013,305					-6,60	-2,0%	1015,415	1015,283	1013,733	1,55	768.791,016	8.186.525,364	1015,307	0,4%	6,60						8,52	1014,026
1102+0.000	9,04	1013,627					-6,60	-2,0%	1015,518	1015,386	1014,112	1,27	768.808,374	8.186.535,298	1015,254	-2,0%	6,60						7,97	1014,342
1103+0.000	8,67	1013,977					-6,60	-2,0%	1015,621	1015,489	1014,296	1,19	768.825,728	8.186.545,241	1015,357	-2,0%	6,60						7,80	1014,557
1104+0.000	8,24	1014,365					-6,60	-2,0%	1015,723	1015,591	1014,605	0,99	768.843,082	8.186.555,183	1015,459	-2,0%	6,60						7,60	1014,796
1105+0.000	7,87	1014,718					-6,60	-2,0%	1015,826	1015,694	1014,860	0,83	768.860,435	8.186.565,125	1015,562	-2,0%	6,60						7,45	1014,995
1106+0.000	7,53	1015,046					-6,60	-2,0%	1015,929	1015,797	1015,195	0,60	768.877,789	8.186.575,067	1015,665	-2,0%	6,60						7,08	1015,348



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
1107+0.000	7,28	1015,318					-6,60	-2,0%	1016,032	1015,900	1015,466	0,43	768.895,143	8.186.585,009	1015,768	-2,0%	6,60						6,87	1015,586
1108+0.000	6,97	1015,626					-6,60	-2,0%	1016,135	1016,003	1015,735	0,27	768.912,497	8.186.594,951	1015,871	-2,0%	6,60						6,70	1015,807
1109+0.000	6,80	1015,840					-6,60	-2,0%	1016,238	1016,106	1015,930	0,18	768.929,850	8.186.604,894	1015,974	-2,0%	6,60						6,62	1015,996
1110+0.000	6,84	1015,916					-6,60	-2,0%	1016,340	1016,208	1016,000	0,21	768.947,204	8.186.614,836	1016,076	-2,0%	6,60						6,63	1016,058
1111+0.000	7,01	1015,909					-6,60	-2,0%	1016,443	1016,311	1015,973	0,34	768.964,558	8.186.624,778	1016,179	-2,0%	6,60						6,82	1016,030
1112+0.000	7,33	1015,792					-6,60	-2,0%	1016,546	1016,414	1015,874	0,54	768.981,912	8.186.634,720	1016,282	-2,0%	6,60						7,15	1015,916
1113+0.000	7,50	1015,788					-6,60	-2,0%	1016,649	1016,517	1015,796	0,72	768.999,266	8.186.644,662	1016,385	-2,0%	6,60						7,46	1015,809
1114+0.000	7,62	1015,805					-6,60	-2,0%	1016,750	1016,618	1015,795	0,82	769.016,619	8.186.654,605	1016,486	-2,0%	6,60						7,67	1015,770
1115+0.000	7,85	1015,719					-6,60	-2,0%	1016,814	1016,682	1015,695	0,99	769.033,973	8.186.664,547	1016,550	-2,0%	6,60						7,92	1015,673
1116+0.000	8,07	1015,580					-6,60	-2,0%	1016,826	1016,694	1015,484	1,21	769.051,327	8.186.674,489	1016,562	-2,0%	6,60						8,45	1015,332
1117+0.000	8,47	1015,274					-6,60	-2,0%	1016,787	1016,655	1015,115	1,54	769.068,681	8.186.684,431	1016,523	-2,0%	6,60						9,13	1014,839
1118+0.000	9,87	1014,252					-6,60	-2,0%	1016,698	1016,566	1014,290	2,28	769.086,034	8.186.694,373	1016,434	-2,0%	6,60						10,34	1013,942
1119+0.000	12,33	1012,515					-6,60	-2,0%	1016,595	1016,463	1011,162	5,30	769.103,388	8.186.704,315	1016,331	-2,0%	6,60						15,84	1010,170
1120+0.000	12,63	1012,210					-6,60	-2,0%	1016,493	1016,361	1010,687	5,67	769.120,742	8.186.714,258	1016,229	-2,0%	6,60	18,600	1008,23	21,600	1008,32	22,77	1007,541	
1121+0.000	11,24	1013,034					-6,60	-2,0%	1016,390	1016,258	1011,594	4,66	769.138,096	8.186.724,200	1016,126	-2,0%	6,60						16,27	1009,681
1122+0.000	8,57	1014,712					-6,60	-2,0%	1016,287	1016,155	1014,070	2,08	769.155,449	8.186.734,142	1016,023	-2,0%	6,60						10,98	1013,105
1123+0.000	7,76	1015,144					-6,60	-2,0%	1016,184	1016,052	1014,838	1,21	769.172,803	8.186.744,084	1015,920	-2,0%	6,60						9,22	1014,176
1124+0.000	7,46	1015,258					-6,60	-2,0%	1016,094	1015,962	1014,976	0,99	769.190,157	8.186.754,026	1015,830	-2,0%	6,60						8,70	1014,428
1125+0.000	7,50	1015,244					-6,60	-2,0%	1016,108	1015,976	1014,981	1,00	769.207,511	8.186.763,968	1015,844	-2,0%	6,60						8,56	1014,539
1126+0.000	8,13	1014,965					-6,60	-2,0%	1016,247	1016,115	1014,507	1,61	769.224,864	8.186.773,911	1015,983	-2,0%	6,60						9,82	1013,838
1127+0.000	9,17	1014,531					-6,60	-2,0%	1016,511	1016,379	1014,332	2,05	769.242,218	8.186.783,853	1016,247	-2,0%	6,60						10,97	1013,336
1128+0.000	10,12	1014,277					-6,60	-2,0%	1016,888	1016,756	1013,145	3,61	769.259,572	8.186.793,795	1016,624	-2,0%	6,60						10,62	1013,944
1129+0.000	10,02	1014,739					-6,60	-2,0%	1017,284	1017,152	1013,275	3,88	769.276,926	8.186.803,737	1017,020	-2,0%	6,60						11,35	1013,855
1130+0.000	10,33	1014,929					-6,60	-2,0%	1017,681	1017,549	1014,078	3,47	769.294,279	8.186.813,679	1017,417	-2,0%	6,60						12,34	1013,593
1131+0.000	10,43	1015,260					-6,60	-2,0%	1018,078	1017,946	1014,733	3,21	769.311,633	8.186.823,622	1017,814	-2,0%	6,60						12,44	1013,922
1132+0.000	9,51	1016,271					-6,60	-2,0%	1018,475	1018,343	1015,710	2,63	769.328,987	8.186.833,564	1018,211	-2,0%	6,60						11,28	1015,093
1133+0.000	9,39	1016,745					-6,60	-2,0%	1018,871	1018,739	1016,457	2,28	769.346,341	8.186.843,506	1018,607	-2,0%	6,60						10,24	1016,183
1134+0.000	9,03	1017,384					-6,60	-2,0%	1019,268	1019,136	1017,131	2,01	769.363,695	8.186.853,448	1019,004	-2,0%	6,60						9,82	1016,861
1135+0.000	8,74	1017,973					-6,60	-2,0%	1019,665	1019,533	1017,671	1,86	769.381,048	8.186.863,390	1019,401	-2,0%	6,60						9,61	1017,393
1136+0.000	8,45	1018,566					-6,60	-2,0%	1020,062	1019,930	1018,248	1,68	769.398,402	8.186.873,332	1019,798	-2,0%	6,60						9,34	1017,972
1137+0.000	8,18	1019,141					-6,60	-2,0%	1020,458	1020,326	1018,854	1,47	769.415,756	8.186.883,275	1020,194	-2,0%	6,60						8,99	1018,600
1138+0.000	7,65	1019,889					-6,60	-2,0%	1020,855	1020,723	1019,523	1,20	769.433,110	8.186.893,217	1020,591	-2,0%	6,60						8,74	1019,167
1139+0.000	8,13	1019,968					-6,60	-2,0%	1021,252	1021,120	1019,910	1,21	769.450,463	8.186.903,159	1020,988	-2,0%	6,60						8,33	1019,836
1140+0.000	7,74	1020,625					-6,60	-2,0%	1021,649	1021,517	1020,418	1,10	769.467,817	8.186.913,101	1021,385	-2,0%	6,60						8,32	1020,238
1141+0.000	7,67	1021,070					-6,60	-2,0%	1022,045	1021,913	1020,923	0,99	769.485,171	8.186.923,043	1021,781	-2,0%	6,60						8,10	1020,781
1142+0.000	7,40	1021,647					-6,60	-2,0%	1022,442	1022,310	1021,366	0,94	769.502,525	8.186.932,985	1022,178	-2,0%	6,60						7,99	1021,250
1143+0.000	7,44	1022,013					-6,60	-2,0%	1022,839	1022,707	1021,805	0,90	769.519,878	8.186.942,928	1022,575	-2,0%	6,60						7,99	1021,651
1144+0.000	7,44	1022,410					-6,60	-2,0%	1023,236	1023,104	1022,285	0,82	769.537,232	8.186.952,870	1022,972	-2,0%	6,60						7,83	1022,149
1145+0.000	7,29	1022,911					-6,60	-2,0%	1023,632	1023,500	1022,723	0,78	769.554,586	8.186.962,812	1023,368	-2,0%	6,60						7,91	1022,498
1146+0.000	7,32	1023,284					-6,60	-2,0%	1024,029	1023,897	1023,160	0,74	769.571,940	8.186.972,754	1023,765	-2,0%	6,60						7,77	1022,987
1147+0.000	7,28	1023,711					-6,60	-2,0%	1024,426	1024,294	1023,586	0,71	769.589,293	8.186.982,696	1024,162	-2,0%	6,60						7,69	1023,438



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1148+0.000	7,36	1024,055					-6,60	-2,0%	1024,823	1024,691	1023,961	0,73	769.606,647	8.186.992,638	1024,559	-2,0%	6,60						7,64	1023,863
1149+0.000	7,36	1024,448					-6,60	-2,0%	1025,219	1025,087	1024,351	0,74	769.624,001	8.187.002,581	1024,955	-2,0%	6,60						7,70	1024,220
1150+0.000	7,40	1024,872					-6,60	-1,2%	1025,565	1025,484	1024,706	0,78	769.641,355	8.187.012,523	1025,352	-2,0%	6,60						7,75	1024,587
1151+0.000	7,56	1025,346					-6,60	1,6%	1025,777	1025,881	1025,158	0,72	769.658,709	8.187.022,465	1025,749	-2,0%	6,60						7,72	1025,000
1152+0.000	8,08	1025,571					-6,60	4,2%	1026,001	1026,278	1025,248	1,03	769.676,199	8.187.032,162	1026,001	-4,2%	6,60						7,44	1025,443
1153+0.000	8,09	1025,961					-6,60	4,2%	1026,397	1026,674	1025,707	0,97	769.693,976	8.187.041,326	1026,397	-4,2%	6,60						7,81	1025,588
1154+0.000	8,35	1026,181					-6,60	4,2%	1026,794	1027,071	1026,071	1,00	769.712,022	8.187.049,946	1026,794	-4,2%	6,60						7,84	1025,968
1155+0.000	8,49	1026,485					-6,60	4,2%	1027,191	1027,468	1026,312	1,16	769.730,321	8.187.058,016	1027,191	-4,2%	6,60						8,07	1026,213
1156+0.000	8,70	1026,742					-6,60	4,2%	1027,588	1027,865	1026,612	1,25	769.748,856	8.187.065,528	1027,588	-4,2%	6,60						8,23	1026,501
1157+0.000	8,93	1026,985					-6,60	4,2%	1027,984	1028,261	1026,827	1,43	769.767,610	8.187.072,474	1027,984	-4,2%	6,60						8,49	1026,727
1158+0.000	9,09	1027,257					-6,60	4,2%	1028,365	1028,642	1027,124	1,52	769.786,566	8.187.078,849	1028,365	-4,2%	6,60						8,65	1027,002
1159+0.000	9,26	1027,482					-6,60	4,2%	1028,700	1028,977	1027,358	1,62	769.805,706	8.187.084,647	1028,700	-4,2%	6,60						8,76	1027,257
1160+0.000	9,41	1027,671					-6,60	4,2%	1028,990	1029,267	1027,524	1,74	769.825,013	8.187.089,863	1028,990	-4,2%	6,60						9,01	1027,382
1161+0.000	9,50	1027,853					-6,60	4,2%	1029,233	1029,510	1027,782	1,73	769.844,470	8.187.094,491	1029,233	-4,2%	6,60						9,08	1027,583
1162+0.000	9,54	1028,023					-6,60	4,2%	1029,431	1029,708	1027,861	1,85	769.864,057	8.187.098,527	1029,431	-4,2%	6,60						9,13	1027,741
1163+0.000	9,54	1028,180					-6,60	4,2%	1029,583	1029,860	1028,046	1,81	769.883,758	8.187.101,968	1029,583	-4,2%	6,60						9,15	1027,885
1164+0.000	9,52	1028,293					-6,60	4,2%	1029,688	1029,965	1028,169	1,80	769.903,554	8.187.104,811	1029,688	-4,2%	6,60						9,12	1028,010
1165+0.000	9,44	1028,411					-6,60	4,2%	1029,748	1030,025	1028,226	1,80	769.923,428	8.187.107,052	1029,748	-4,2%	6,60						9,09	1028,089
1166+0.000	9,41	1028,447					-6,60	4,2%	1029,763	1030,040	1028,311	1,73	769.943,360	8.187.108,690	1029,763	-4,2%	6,60						9,04	1028,138
1167+0.000	9,29	1028,492					-6,60	4,2%	1029,731	1030,008	1028,370	1,64	769.963,332	8.187.109,724	1029,731	-4,2%	6,60						8,94	1028,171
1168+0.000	9,16	1028,504					-6,60	4,2%	1029,653	1029,930	1028,291	1,64	769.983,327	8.187.110,152	1029,653	-4,2%	6,60						8,94	1028,096
1169+0.000	8,98	1028,498					-6,60	4,2%	1029,530	1029,807	1028,288	1,52	770.003,325	8.187.109,974	1029,530	-4,2%	6,60						8,77	1028,082
1170+0.000	8,77	1028,470					-6,60	4,2%	1029,361	1029,638	1028,264	1,37	770.023,309	8.187.109,190	1029,361	-4,2%	6,60						8,54	1028,068
1171+0.000	8,64	1028,343					-6,60	4,2%	1029,145	1029,422	1028,171	1,25	770.043,260	8.187.107,801	1029,145	-4,2%	6,60						8,33	1027,989
1172+0.000	8,47	1028,189					-6,60	4,2%	1028,884	1029,161	1027,963	1,20	770.063,160	8.187.105,809	1028,884	-4,2%	6,60						8,22	1027,804
1173+0.000	8,20	1028,082					-6,60	4,2%	1028,594	1028,871	1027,863	1,01	770.082,990	8.187.103,214	1028,594	-4,2%	6,60						8,05	1027,627
1174+0.000	8,07	1027,878					-6,60	4,2%	1028,302	1028,579	1027,688	0,89	770.102,732	8.187.100,020	1028,302	-4,2%	6,60						7,83	1027,484
1175+0.000	7,89	1027,705					-6,60	4,2%	1028,011	1028,288	1027,492	0,80	770.122,369	8.187.096,228	1028,011	-4,2%	6,60						7,74	1027,249
1176+0.000	7,76	1027,504					-6,60	4,2%	1027,720	1027,997	1027,248	0,75	770.141,882	8.187.091,844	1027,720	-4,2%	6,60						7,67	1027,007
1177+0.000	7,56	1027,190					-6,60	1,9%	1027,582	1027,705	1026,960	0,74	770.161,253	8.187.086,871	1027,573	-2,0%	6,60						7,91	1026,701
1178+0.000	7,33	1026,865					-6,60	-0,9%	1027,475	1027,414	1026,577	0,84	770.180,537	8.187.081,566	1027,282	-2,0%	6,60						8,11	1026,276
1179+0.000	7,23	1026,574					-6,60	-2,0%	1027,255	1027,123	1026,265	0,86	770.199,820	8.187.076,261	1026,991	-2,0%	6,60						8,18	1025,938
1180+0.000	7,25	1026,266					-6,60	-2,0%	1026,963	1026,831	1025,921	0,91	770.219,103	8.187.070,955	1026,699	-2,0%	6,60						8,26	1025,595
1181+0.000	7,29	1025,947					-6,60	-2,0%	1026,672	1026,540	1025,613	0,93	770.238,387	8.187.065,650	1026,408	-2,0%	6,60						8,34	1025,250
1182+0.000	7,40	1025,584					-6,60	-2,0%	1026,381	1026,249	1025,209	1,04	770.257,670	8.187.060,344	1026,117	-2,0%	6,60						8,54	1024,827
1183+0.000	7,38	1025,303					-6,60	-2,0%	1026,089	1025,957	1024,894	1,06	770.276,954	8.187.055,039	1025,825	-2,0%	6,60						8,75	1024,391
1184+0.000	7,66	1024,828					-6,60	-2,0%	1025,798	1025,666	1024,402	1,26	770.296,237	8.187.049,733	1025,534	-2,0%	6,60						9,13	1023,849
1185+0.000	7,69	1024,514					-6,60	-2,0%	1025,507	1025,375	1024,049	1,33	770.315,521	8.187.044,428	1025,243	-2,0%	6,60						9,23	1023,488
1186+0.000	7,72	1024,204					-6,60	-2,0%	1025,215	1025,083	1023,819	1,26	770.334,804	8.187.039,122	1024,951	-2,0%	6,60						8,87	1023,442
1187+0.000	7,67	1023,952					-6,60	-2,0%	1024,928	1024,796	1023,489	1,31	770.354,088	8.187.033,816	1024,664	-2,0%	6,60						9,19	1022,940
1188+0.000	7,58	1023,769					-6,60	-2,0%	1024,686	1024,554	1023,302	1,25	770.373,371	8.187.028,511	1024,422	-2,0%	6,60						9,17	1022,709



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1189+0.000	7,32	1023,759					-6,60	-2,0%	1024,503	1024,371	1023,167	1,20	770.392,654	8.187.023,205	1024,239	-2,0%	6,60						9,19	1022,510
1190+0.000	7,66	1023,401					-6,60	-2,0%	1024,374	1024,242	1023,046	1,20	770.411,938	8.187.017,900	1024,110	-2,0%	6,60						8,80	1022,645
1191+0.000	7,16	1023,616					-6,60	-2,0%	1024,257	1024,125	1023,145	0,98	770.431,221	8.187.012,594	1023,993	-2,0%	6,60						8,50	1022,728
1192+0.000	7,04	1023,580					-6,60	-2,0%	1024,139	1024,007	1023,240	0,77	770.450,505	8.187.007,289	1023,875	-2,0%	6,60						7,95	1022,977
1193+0.000	6,99	1023,499					-6,60	-2,0%	1024,022	1023,890	1023,262	0,63	770.469,788	8.187.001,983	1023,758	-2,0%	6,60						7,61	1023,085
1194+0.000	6,78	1023,817					-6,60	-2,0%	1023,905	1023,773	1023,532	0,24	770.489,072	8.186.996,678	1023,641	-2,0%	6,60						7,24	1023,216
1195+0.000	6,78	1023,700					-6,60	-2,0%	1023,788	1023,656	1023,440	0,22	770.508,355	8.186.991,372	1023,524	-2,0%	6,60						7,14	1023,164
1196+0.000	6,96	1023,766					-6,60	-2,0%	1023,671	1023,539	1023,413	0,13	770.527,639	8.186.986,067	1023,407	-2,0%	6,60						7,06	1023,098
1197+0.000	7,02	1023,710					-6,60	-2,0%	1023,554	1023,422	1023,281	0,14	770.546,922	8.186.980,761	1023,290	-2,0%	6,60						7,06	1022,983
1198+0.000	6,69	1023,265					-6,60	-2,0%	1023,437	1023,305	1022,986	0,32	770.566,205	8.186.975,455	1023,173	-2,0%	6,60						7,30	1022,705
1199+0.000	6,70	1022,988					-6,60	-2,0%	1023,320	1023,188	1022,721	0,47	770.585,489	8.186.970,150	1023,056	-2,0%	6,60						7,50	1022,456
1200+0.000	7,08	1022,618					-6,60	-2,0%	1023,203	1023,071	1022,455	0,62	770.604,772	8.186.964,844	1022,939	-2,0%	6,60						7,76	1022,166
1201+0.000	7,12	1022,478					-6,60	-2,0%	1023,086	1022,954	1022,150	0,80	770.624,056	8.186.959,539	1022,822	-2,0%	6,60						8,07	1021,841
1202+0.000	7,64	1022,012					-6,60	-2,0%	1022,969	1022,837	1021,845	0,99	770.643,339	8.186.954,233	1022,705	-2,0%	6,60						8,38	1021,516
1203+0.000	7,69	1021,864					-6,60	-2,0%	1022,852	1022,720	1021,755	0,97	770.662,623	8.186.948,928	1022,588	-2,0%	6,60						8,44	1021,362
1204+0.000	7,11	1022,134					-6,60	-2,0%	1022,735	1022,603	1022,055	0,55	770.681,906	8.186.943,622	1022,471	-2,0%	6,60						8,31	1021,328
1205+0.000	7,92	1021,474					-6,60	-2,0%	1022,618	1022,486	1021,101	1,38	770.701,190	8.186.938,317	1022,354	-2,0%	6,60						8,64	1020,994
1206+0.000	7,95	1021,336					-6,60	-2,0%	1022,501	1022,369	1021,317	1,05	770.720,473	8.186.933,011	1022,237	-2,0%	6,60						8,39	1021,041
1207+0.000	7,93	1021,236					-6,60	-2,0%	1022,384	1022,252	1021,150	1,10	770.739,756	8.186.927,706	1022,120	-2,0%	6,60						8,38	1020,933
1208+0.000	7,74	1021,246					-6,60	-2,0%	1022,266	1022,134	1021,174	0,96	770.759,040	8.186.922,400	1022,002	-2,0%	6,60						8,10	1021,006
1209+0.000	7,79	1021,093					-6,60	-2,0%	1022,149	1022,017	1021,109	0,91	770.778,323	8.186.917,094	1021,885	-2,0%	6,60						7,87	1021,037
1210+0.000	7,53	1021,151					-6,60	-2,0%	1022,032	1021,900	1021,082	0,82	770.797,607	8.186.911,789	1021,768	-2,0%	6,60						7,72	1021,024
1211+0.000	7,65	1020,953					-6,60	-2,0%	1021,915	1021,783	1021,024	0,76	770.816,888	8.186.906,475	1021,651	-2,0%	6,60						7,65	1020,954
1212+0.000	7,58	1020,880					-6,60	-2,0%	1021,798	1021,666	1020,957	0,71	770.836,150	8.186.901,094	1021,534	-2,0%	6,60						7,53	1020,914
1213+0.000	7,46	1020,843					-6,60	-2,0%	1021,681	1021,549	1020,821	0,73	770.855,391	8.186.895,636	1021,417	-2,0%	6,60						7,52	1020,804
1214+0.000	7,66	1020,591					-6,60	-2,0%	1021,564	1021,432	1020,743	0,69	770.874,613	8.186.890,112	1021,300	-2,0%	6,60						7,46	1020,728
1215+0.000	7,48	1020,597					-6,60	-2,0%	1021,447	1021,315	1020,637	0,68	770.893,832	8.186.884,577	1021,183	-2,0%	6,60						7,37	1020,667
1216+0.000	7,52	1020,455					-6,60	-2,0%	1021,330	1021,198	1020,581	0,62	770.913,051	8.186.879,043	1021,066	-2,0%	6,60						7,34	1020,570
1217+0.000	7,61	1020,275					-6,60	-2,0%	1021,213	1021,081	1020,457	0,62	770.932,270	8.186.873,509	1020,949	-2,0%	6,60						7,34	1020,453
1218+0.000	7,50	1020,232					-6,60	-2,0%	1021,096	1020,964	1020,329	0,64	770.951,489	8.186.867,975	1020,832	-2,0%	6,60						7,25	1020,400
1219+0.000	7,68	1019,998					-6,60	-2,0%	1020,979	1020,847	1020,136	0,71	770.970,709	8.186.862,441	1020,715	-2,0%	6,60						7,38	1020,198
1220+0.000	7,72	1019,883					-6,60	-2,0%	1020,896	1020,764	1020,044	0,72	770.989,928	8.186.856,907	1020,632	-2,0%	6,60						7,40	1020,100
1221+0.000	7,64	1019,939					-6,60	-2,0%	1020,899	1020,767	1019,860	0,91	771.009,147	8.186.851,373	1020,635	-2,0%	6,60						7,60	1019,968
1222+0.000	8,27	1019,615					-6,60	-2,0%	1020,988	1020,856	1019,776	1,08	771.028,366	8.186.845,838	1020,724	-2,0%	6,60						7,88	1019,874
1223+0.000	8,66	1019,496					-6,60	-2,0%	1021,130	1020,998	1019,589	1,41	771.047,585	8.186.840,304	1020,866	-2,0%	6,60						8,28	1019,745
1224+0.000	9,02	1019,395					-6,60	-2,0%	1021,273	1021,141	1019,471	1,67	771.066,804	8.186.834,770	1021,009	-2,0%	6,60						8,75	1019,573
1225+0.000	9,30	1019,351					-6,60	-2,0%	1021,415	1021,283	1019,297	1,99	771.086,023	8.186.829,236	1021,151	-2,0%	6,60						9,13	1019,468
1226+0.000	9,68	1019,242					-6,60	-2,0%	1021,557	1021,425	1019,195	2,23	771.105,242	8.186.823,702	1021,293	-2,0%	6,60						9,48	1019,372
1227+0.000	9,90	1019,236					-6,60	-2,0%	1021,700	1021,568	1018,890	2,68	771.124,461	8.186.818,168	1021,436	-2,0%	6,60						9,81	1019,295
1228+0.000	10,35	1019,060					-6,60	-2,0%	1021,824	1021,692	1019,069	2,62	771.143,680	8.186.812,634	1021,560	-2,0%	6,60						10,24	1019,134
1229+0.000	10,49	1019,037					-6,60	-2,0%	1021,893	1021,761	1019,007	2,75	771.162,899	8.186.807,099	1021,629	-2,0%	6,60						10,53	1019,011



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1230+0.000	10,57	1018,994					-6,60	-2,0%	1021,905	1021,773	1018,979	2,79	771.182,118	8.186.801,565	1021,641	-2,0%	6,60						10,43	1019,086
1231+0.000	10,38	1019,077					-6,60	-2,0%	1021,861	1021,729	1019,114	2,62	771.201,338	8.186.796,031	1021,597	-2,0%	6,60						10,39	1019,067
1232+0.000	10,34	1019,003					-6,60	-2,0%	1021,760	1021,628	1019,055	2,57	771.220,557	8.186.790,497	1021,496	-2,0%	6,60						10,17	1019,117
1233+0.000	9,85	1019,171					-6,60	-2,0%	1021,603	1021,471	1019,129	2,34	771.239,776	8.186.784,963	1021,339	-2,0%	6,60						9,88	1019,154
1234+0.000	9,28	1019,358					-6,60	-2,0%	1021,407	1021,275	1019,299	1,98	771.258,995	8.186.779,429	1021,143	-2,0%	6,60						9,42	1019,261
1235+0.000	8,95	1019,380					-6,60	-2,0%	1021,211	1021,079	1019,305	1,77	771.278,214	8.186.773,894	1020,947	-2,0%	6,60						9,03	1019,324
1236+0.000	8,55	1019,453					-6,60	-2,0%	1021,014	1020,882	1019,521	1,36	771.297,433	8.186.768,360	1020,750	-2,0%	6,60						8,56	1019,445
1237+0.000	8,20	1019,487					-6,60	-2,0%	1020,818	1020,686	1019,465	1,22	771.316,652	8.186.762,826	1020,554	-2,0%	6,60						8,16	1019,511
1238+0.000	7,61	1019,683					-6,60	-2,0%	1020,621	1020,489	1019,686	0,80	771.335,871	8.186.757,292	1020,357	-2,0%	6,60						7,67	1019,643
1239+0.000	7,05	1019,878					-6,60	-2,0%	1020,439	1020,307	1019,822	0,49	771.355,090	8.186.751,758	1020,175	-2,0%	6,60						7,26	1019,735
1240+0.000	6,87	1019,919					-6,60	-2,0%	1020,365	1020,233	1019,892	0,34	771.374,309	8.186.746,224	1020,101	-2,0%	6,60						7,08	1019,780
1241+0.000	6,82	1020,006					-6,60	-2,0%	1020,413	1020,281	1019,980	0,30	771.393,528	8.186.740,690	1020,149	-2,0%	6,60						7,04	1019,857
1242+0.000	7,23	1019,887					-6,60	-2,0%	1020,569	1020,437	1020,137	0,30	771.412,747	8.186.735,155	1020,305	-2,0%	6,60						7,07	1019,991
1243+0.000	7,27	1020,028					-6,60	-2,0%	1020,740	1020,608	1020,185	0,42	771.431,967	8.186.729,621	1020,476	-2,0%	6,60						7,16	1020,100
1244+0.000	7,37	1020,131					-6,60	-2,0%	1020,911	1020,779	1020,384	0,39	771.451,186	8.186.724,087	1020,647	-2,0%	6,60						7,27	1020,198
1245+0.000	7,36	1020,312					-6,60	-2,0%	1021,082	1020,950	1020,522	0,43	771.470,405	8.186.718,553	1020,818	-2,0%	6,60						7,35	1020,315
1246+0.000	7,54	1020,360					-6,60	-2,0%	1021,253	1021,121	1020,608	0,51	771.489,624	8.186.713,019	1020,989	-2,0%	6,60						7,36	1020,484
1247+0.000	7,52	1020,547					-6,60	-2,0%	1021,424	1021,292	1020,778	0,51	771.508,843	8.186.707,485	1021,160	-2,0%	6,60						7,49	1020,569
1248+0.000	7,32	1020,851					-6,60	-2,0%	1021,595	1021,463	1020,914	0,55	771.528,062	8.186.701,950	1021,331	-2,0%	6,60						7,55	1020,696
1249+0.000	7,25	1021,069					-6,60	-2,0%	1021,766	1021,634	1021,006	0,63	771.547,281	8.186.696,416	1021,502	-2,0%	6,60						7,65	1020,801
1250+0.000	7,35	1021,172					-6,60	-2,0%	1021,937	1021,805	1021,146	0,66	771.566,500	8.186.690,882	1021,673	-2,0%	6,60						7,70	1020,943
1251+0.000	7,40	1021,309					-6,60	-2,0%	1022,108	1021,976	1021,231	0,75	771.585,719	8.186.685,348	1021,844	-2,0%	6,60						7,85	1021,013
1252+0.000	7,75	1021,246					-6,60	-2,0%	1022,279	1022,147	1021,413	0,73	771.604,938	8.186.679,814	1022,015	-2,0%	6,60						7,84	1021,188
1253+0.000	7,78	1021,398					-6,60	-2,0%	1022,450	1022,318	1021,628	0,69	771.624,157	8.186.674,280	1022,186	-2,0%	6,60						7,93	1021,302
1254+0.000	7,60	1021,690					-6,60	-2,0%	1022,621	1022,489	1021,584	0,91	771.643,376	8.186.668,746	1022,357	-2,0%	6,60						7,95	1021,461
1255+0.000	7,61	1021,854					-6,60	-2,0%	1022,792	1022,660	1021,861	0,80	771.662,596	8.186.663,211	1022,528	-2,0%	6,60						8,01	1021,589
1256+0.000	7,74	1021,940					-6,60	-2,0%	1022,963	1022,831	1021,969	0,86	771.681,815	8.186.657,677	1022,699	-2,0%	6,60						8,11	1021,695
1257+0.000	7,81	1022,064					-6,60	-2,0%	1023,134	1023,002	1022,102	0,90	771.701,034	8.186.652,143	1022,870	-2,0%	6,60						8,02	1021,922
1258+0.000	7,78	1022,254					-6,60	-2,0%	1023,305	1023,173	1022,286	0,89	771.720,253	8.186.646,609	1023,041	-2,0%	6,60						8,04	1022,084
1259+0.000	7,82	1022,397					-6,60	-2,0%	1023,477	1023,345	1022,470	0,88	771.739,472	8.186.641,075	1023,213	-2,0%	6,60						8,06	1022,243
1260+0.000	7,96	1022,478					-6,60	-2,0%	1023,648	1023,516	1022,594	0,92	771.758,691	8.186.635,541	1023,384	-2,0%	6,60						7,96	1022,474
1261+0.000	7,93	1022,667					-6,60	-2,0%	1023,819	1023,687	1022,776	0,91	771.777,910	8.186.630,007	1023,555	-2,0%	6,60						7,84	1022,730
1262+0.000	7,76	1022,952					-6,60	-2,0%	1023,990	1023,858	1022,960	0,90	771.797,129	8.186.624,472	1023,726	-2,0%	6,60						7,76	1022,955
1263+0.000	7,65	1023,196					-6,60	-2,0%	1024,161	1024,029	1023,287	0,74	771.816,348	8.186.618,938	1023,897	-2,0%	6,60						7,63	1023,213
1264+0.000	7,67	1023,357					-6,60	-2,0%	1024,332	1024,200	1023,483	0,72	771.835,567	8.186.613,404	1024,068	-2,0%	6,60						7,60	1023,403
1265+0.000	7,66	1023,530					-6,60	-2,0%	1024,503	1024,371	1023,673	0,70	771.854,786	8.186.607,870	1024,239	-2,0%	6,60						7,53	1023,620
1266+0.000	7,81	1023,603					-6,60	-2,0%	1024,674	1024,542	1023,781	0,76	771.874,005	8.186.602,336	1024,410	-2,0%	6,60						7,56	1023,773
1267+0.000	7,40	1024,045					-6,60	-2,0%	1024,845	1024,713	1023,938	0,77	771.893,225	8.186.596,802	1024,581	-2,0%	6,60						7,58	1023,931
1268+0.000	7,60	1024,089					-6,60	-2,0%	1025,016	1024,884	1024,173	0,71	771.912,444	8.186.591,267	1024,752	-2,0%	6,60						7,57	1024,105
1269+0.000	7,70	1024,188					-6,60	-2,0%	1025,187	1025,055	1024,333	0,72	771.931,663	8.186.585,733	1024,923	-2,0%	6,60						7,65	1024,226
1270+0.000	7,73	1024,321					-6,60	-2,0%	1025,339	1025,207	1024,444	0,76	771.950,882	8.186.580,199	1025,075	-2,0%	6,60						7,70	1024,341



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9															
1271+0.000	7,79	1024,383					-6,60	-2,0%	1025,441	1025,309	1024,344	0,96	771.970,101	8.186.574,665	1025,177	-2,0%	6,60						7,73	1024,423
1272+0.000	7,73	1024,473					-6,60	-2,0%	1025,493	1025,361	1024,482	0,88	771.989,320	8.186.569,131	1025,229	-2,0%	6,60						7,79	1024,437
1273+0.000	7,79	1024,441					-6,60	-2,0%	1025,495	1025,363	1024,527	0,84	772.008,539	8.186.563,597	1025,231	-2,0%	6,60						7,74	1024,473
1274+0.000	7,92	1024,306					-6,60	-2,0%	1025,448	1025,316	1024,419	0,90	772.027,758	8.186.558,063	1025,184	-2,0%	6,60						7,82	1024,368
1275+0.000	8,03	1024,136					-6,60	-2,0%	1025,350	1025,218	1024,351	0,87	772.046,977	8.186.552,528	1025,086	-2,0%	6,60						7,81	1024,283
1276+0.000	8,06	1023,964					-6,60	-2,0%	1025,203	1025,071	1024,123	0,95	772.066,196	8.186.546,994	1024,939	-2,0%	6,60						7,83	1024,121
1277+0.000	8,20	1023,678					-6,60	-2,0%	1025,006	1024,874	1023,958	0,92	772.085,415	8.186.541,460	1024,742	-2,0%	6,60						7,70	1024,009
1278+0.000	8,13	1023,479					-6,60	-2,0%	1024,759	1024,627	1023,666	0,96	772.104,634	8.186.535,926	1024,495	-2,0%	6,60						7,59	1023,834
1279+0.000	8,16	1023,156					-6,60	-2,0%	1024,463	1024,331	1023,587	0,74	772.123,854	8.186.530,392	1024,199	-2,0%	6,60						7,53	1023,577
1280+0.000	8,20	1022,806					-6,60	-2,0%	1024,135	1024,003	1023,238	0,76	772.143,073	8.186.524,858	1023,871	-2,0%	6,60						7,38	1023,350
1281+0.000	8,10	1022,541					-6,60	-2,0%	1023,808	1023,676	1022,959	0,72	772.162,292	8.186.519,323	1023,544	-2,0%	6,60						7,24	1023,119
1282+0.000	7,94	1022,325					-6,60	-2,0%	1023,480	1023,348	1022,731	0,62	772.181,511	8.186.513,789	1023,216	-2,0%	6,60						7,14	1022,860
1283+0.000	7,69	1022,164					-6,60	-2,0%	1023,153	1023,021	1022,458	0,56	772.200,730	8.186.508,255	1022,889	-2,0%	6,60						7,15	1022,521
1284+0.000	7,87	1021,714					-6,60	-2,0%	1022,825	1022,693	1022,202	0,49	772.219,949	8.186.502,721	1022,561	-2,0%	6,60						7,00	1022,293
1285+0.000	7,86	1021,392					-6,60	-2,0%	1022,498	1022,366	1021,901	0,47	772.239,168	8.186.497,187	1022,234	-2,0%	6,60						6,98	1021,983
1286+0.000	7,85	1021,074					-6,60	-2,0%	1022,170	1022,038	1021,533	0,50	772.258,387	8.186.491,653	1021,906	-2,0%	6,60						6,96	1021,669
1287+0.000	7,05	1021,280					-6,60	-2,0%	1021,843	1021,711	1021,278	0,43	772.277,606	8.186.486,119	1021,579	-2,0%	6,60						6,93	1021,360
1288+0.000	7,47	1020,674					-6,60	-2,0%	1021,515	1021,383	1020,875	0,51	772.296,825	8.186.480,584	1021,251	-2,0%	6,60						6,98	1020,996
1289+0.000	7,59	1020,262					-6,60	-2,0%	1021,188	1021,056	1020,570	0,49	772.316,044	8.186.475,050	1020,924	-2,0%	6,60						6,95	1020,689
1290+0.000	7,99	1019,669					-6,60	-2,0%	1020,860	1020,728	1020,192	0,54	772.335,263	8.186.469,516	1020,596	-2,0%	6,60						7,02	1020,320
1291+0.000	7,95	1019,370					-6,60	-2,0%	1020,533	1020,401	1019,803	0,60	772.354,483	8.186.463,982	1020,269	-2,0%	6,60						7,10	1019,937
1292+0.000	7,93	1019,056					-6,60	-2,0%	1020,205	1020,073	1019,516	0,56	772.373,702	8.186.458,448	1019,941	-2,0%	6,60						7,11	1019,604
1293+0.000	7,90	1018,789					-6,60	-2,0%	1019,921	1019,789	1019,030	0,76	772.392,921	8.186.452,914	1019,657	-2,0%	6,60						7,22	1019,244
1294+0.000	7,95	1018,570					-6,60	-2,0%	1019,735	1019,603	1018,902	0,70	772.412,140	8.186.447,380	1019,471	-2,0%	6,60						7,41	1018,931
1295+0.000	7,99	1018,455					-6,60	-2,0%	1019,645	1019,513	1018,557	0,96	772.431,359	8.186.441,845	1019,381	-2,0%	6,60						7,59	1018,721
1296+0.000	8,37	1018,206					-6,60	-2,0%	1019,653	1019,521	1018,291	1,23	772.450,578	8.186.436,311	1019,389	-2,0%	6,60						8,04	1018,426
1297+0.000	8,64	1018,135					-6,60	-2,0%	1019,757	1019,625	1018,143	1,48	772.469,797	8.186.430,777	1019,493	-2,0%	6,60						8,61	1018,153
1298+0.000	8,97	1018,072					-6,60	-2,0%	1019,916	1019,784	1018,020	1,76	772.489,016	8.186.425,243	1019,652	-2,0%	6,60						8,89	1018,126
1299+0.000	9,36	1017,968					-6,60	-2,0%	1020,074	1019,942	1017,980	1,96	772.508,235	8.186.419,709	1019,810	-2,0%	6,60						9,23	1018,058
1300+0.000	9,31	1018,163					-6,60	-2,0%	1020,232	1020,100	1017,938	2,16	772.527,454	8.186.414,175	1019,968	-2,0%	6,60						9,63	1017,946
1301+0.000	9,82	1017,981					-6,60	-2,0%	1020,391	1020,259	1017,941	2,32	772.546,673	8.186.408,640	1020,127	-2,0%	6,60						9,96	1017,889
1302+0.000	10,18	1017,875					-6,60	-2,0%	1020,522	1020,390	1017,891	2,50	772.565,892	8.186.403,106	1020,258	-2,0%	6,60						10,02	1017,979
1303+0.000	10,39	1017,780					-6,60	-2,0%	1020,572	1020,440	1017,985	2,46	772.585,112	8.186.397,572	1020,308	-2,0%	6,60						10,03	1018,019
1304+0.000	9,66	1018,233					-6,60	-2,0%	1020,539	1020,407	1018,073	2,33	772.604,331	8.186.392,038	1020,275	-2,0%	6,60						9,71	1018,204
1305+0.000	9,86	1017,983					-6,60	-2,0%	1020,422	1020,290	1018,140	2,15	772.623,550	8.186.386,504	1020,158	-2,0%	6,60						9,36	1018,322
1306+0.000	9,44	1018,092					-6,60	-2,0%	1020,250	1020,118	1018,396	1,72	772.642,769	8.186.380,970	1019,986	-2,0%	6,60						8,85	1018,486
1307+0.000	8,88	1018,290					-6,60	-2,0%	1020,076	1019,944	1018,474	1,47	772.661,988	8.186.375,436	1019,812	-2,0%	6,60						8,39	1018,621
1308+0.000	8,62	1018,290					-6,60	-2,0%	1019,902	1019,770	1018,699	1,07	772.681,207	8.186.369,901	1019,638	-2,0%	6,60						7,86	1018,799
1309+0.000	8,25	1018,367					-6,60	-2,0%	1019,728	1019,596	1018,715	0,88	772.700,426	8.186.364,367	1019,464	-2,0%	6,60						7,60	1018,798
1310+0.000	7,60	1018,611					-6,60	-2,0%	1019,538	1019,406	1018,876	0,53	772.719,645	8.186.358,833	1019,274	-2,0%	6,60						7,31	1018,801
1311+0.000	7,08	1018,701					-6,60	-2,0%	1019,283	1019,151	1018,673	0,48	772.738,864	8.186.353,299	1019,019	-2,0%	6,60						7,05	1018,718



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

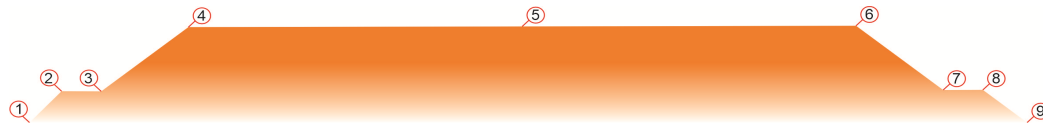
Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1312+0.000	7,28	1018,245					-6,60	-2,0%	1018,960	1018,828	1018,628	0,20	772.758,083	8.186.347,765	1018,696	-2,0%	6,60						6,69	1018,638
1313+0.000	7,40	1017,774					-6,60	-2,0%	1018,569	1018,437	1018,477	-0,04	772.777,302	8.186.342,231	1018,305	-2,0%	6,60						6,77	1018,478
1314+0.000	7,02	1017,566					-6,60	-2,0%	1018,110	1017,978	1018,149	-0,17	772.796,521	8.186.336,696	1017,846	-2,0%	6,60						6,94	1018,187
1315+0.000	6,98	1017,066					-6,60	-2,0%	1017,583	1017,451	1017,644	-0,19	772.815,741	8.186.331,162	1017,319	-2,0%	6,60						7,04	1017,757
1316+0.000	7,12	1016,391					-6,60	-2,0%	1017,004	1016,872	1016,887	-0,01	772.834,960	8.186.325,628	1016,740	-2,0%	6,60						7,06	1017,198
1317+0.000	7,05	1015,860					-6,60	-2,0%	1016,421	1016,289	1016,373	-0,08	772.854,179	8.186.320,094	1016,157	-2,0%	6,60						6,95	1016,511
1318+0.000	7,47	1014,998					-6,60	-2,0%	1015,839	1015,707	1015,547	0,16	772.873,398	8.186.314,560	1015,575	-2,0%	6,60						6,71	1015,686
1319+0.000	7,75	1014,224					-6,60	-2,0%	1015,257	1015,125	1014,722	0,40	772.892,617	8.186.309,026	1014,993	-2,0%	6,60						6,75	1014,894
1320+0.000	7,68	1013,691					-6,60	-2,0%	1014,674	1014,542	1014,042	0,50	772.911,836	8.186.303,492	1014,410	-2,0%	6,60						6,89	1014,216
1321+0.000	8,11	1012,820					-6,60	-2,0%	1014,092	1013,960	1013,388	0,57	772.931,055	8.186.297,957	1013,828	-2,0%	6,60						7,03	1013,544
1322+0.000	7,70	1012,514					-6,60	-2,0%	1013,510	1013,378	1012,790	0,59	772.950,274	8.186.292,423	1013,246	-2,0%	6,60						7,05	1012,944
1323+0.000	7,34	1012,168					-6,60	-2,0%	1012,928	1012,796	1012,229	0,57	772.969,493	8.186.286,889	1012,664	-2,0%	6,60						7,06	1012,357
1324+0.000	8,48	1010,828					-6,60	-2,0%	1012,345	1012,213	1011,611	0,60	772.988,712	8.186.281,355	1012,081	-2,0%	6,60						6,96	1011,843
1325+0.000	8,18	1010,456					-6,60	-2,0%	1011,773	1011,641	1011,017	0,62	773.007,931	8.186.275,821	1011,509	-2,0%	6,60						6,93	1011,286
1326+0.000	7,92	1010,151					-6,60	-2,0%	1011,295	1011,163	1010,604	0,56	773.027,150	8.186.270,287	1011,031	-2,0%	6,60						6,80	1010,899
1327+0.000	8,00	1009,737					-6,60	-2,0%	1010,931	1010,799	1010,235	0,56	773.046,370	8.186.264,753	1010,667	-2,0%	6,60						6,89	1010,476
1328+0.000	8,34	1009,257					-6,60	-2,0%	1010,682	1010,550	1009,882	0,67	773.065,589	8.186.259,218	1010,418	-2,0%	6,60						7,01	1010,144
1329+0.000	8,59	1008,960					-6,60	-2,0%	1010,548	1010,416	1009,515	0,90	773.084,808	8.186.253,684	1010,284	-2,0%	6,60						7,24	1009,855
1330+0.000	8,83	1008,775					-6,60	-2,0%	1010,528	1010,396	1009,217	1,18	773.104,027	8.186.248,150	1010,264	-2,0%	6,60						7,66	1009,555
1331+0.000	9,17	1008,638					-6,60	-2,0%	1010,612	1010,480	1009,034	1,45	773.123,246	8.186.242,616	1010,348	-2,0%	6,60						8,08	1009,360
1332+0.000	10,02	1008,172					-6,60	-2,0%	1010,717	1010,585	1008,784	1,80	773.142,465	8.186.237,082	1010,453	-2,0%	6,60						8,52	1009,171
1333+0.000	10,25	1008,123					-6,60	-2,0%	1010,821	1010,689	1008,653	2,04	773.161,684	8.186.231,548	1010,557	-2,0%	6,60						8,93	1009,001
1334+0.000	10,59	1008,003					-6,60	-2,0%	1010,926	1010,794	1008,466	2,33	773.180,903	8.186.226,013	1010,662	-2,0%	6,60						9,26	1008,891
1335+0.000	10,77	1007,986					-6,60	-2,0%	1011,030	1010,898	1008,445	2,45	773.200,122	8.186.220,479	1010,766	-2,0%	6,60						9,42	1008,888
1336+0.000	10,97	1007,952					-6,60	-2,0%	1011,128	1010,996	1008,419	2,58	773.219,341	8.186.214,945	1010,864	-2,0%	6,60						9,61	1008,857
1337+0.000	10,85	1008,054					-6,60	-2,0%	1011,151	1011,019	1008,460	2,56	773.238,560	8.186.209,411	1010,887	-2,0%	6,60						9,59	1008,891
1338+0.000	11,02	1007,871					-6,60	-2,0%	1011,080	1010,948	1008,574	2,37	773.257,779	8.186.203,877	1010,816	-2,0%	6,60						9,41	1008,940
1339+0.000	10,38	1008,135					-6,60	-2,0%	1010,917	1010,785	1008,619	2,17	773.276,999	8.186.198,343	1010,653	-2,0%	6,60						9,04	1009,023
1340+0.000	9,70	1008,336					-6,60	-2,0%	1010,667	1010,535	1008,880	1,65	773.296,218	8.186.192,809	1010,403	-2,0%	6,60						8,21	1009,332
1341+0.000	9,21	1008,394					-6,60	-2,0%	1010,400	1010,268	1008,118	2,15	773.315,437	8.186.187,274	1010,136	-2,0%	6,60						7,69	1009,409
1342+0.000	8,85	1008,366					-6,60	-2,0%	1010,132	1010,000	1007,981	2,02	773.334,656	8.186.181,740	1009,868	-2,0%	6,60						7,25	1009,434
1343+0.000	8,46	1008,362					-6,60	-2,0%	1009,865	1009,733	1007,603	2,13	773.353,875	8.186.176,206	1009,601	-2,0%	6,60						6,91	1009,394
1344+0.000	8,13	1008,315					-6,60	-2,0%	1009,598	1009,466	1007,706	1,76	773.373,094	8.186.170,672	1009,334	-2,0%	6,60						6,67	1009,408
1345+0.000	7,99	1008,137					-6,60	-2,0%	1009,330	1009,198	1007,386	1,81	773.392,313	8.186.165,138	1009,066	-2,0%	6,60						7,00	1008,803
1346+0.000	8,06	1007,825					-6,60	-2,0%	1009,063	1008,931	1007,605	1,33	773.411,532	8.186.159,604	1008,799	-2,0%	6,60						6,97	1008,549
1347+0.000	8,10	1007,532					-6,60	-2,0%	1008,793	1008,661	1007,637	1,02	773.430,751	8.186.154,070	1008,529	-2,0%	6,60						7,08	1009,012
1348+0.000	7,53	1007,598					-6,60	-2,0%	1008,484	1008,352	1008,283	0,07	773.449,970	8.186.148,535	1008,220	-2,0%	6,60						6,87	1008,487
1349+0.000	7,51	1007,253					-6,60	-2,0%	1008,120	1007,988	1007,714	0,27	773.469,189	8.186.143,001	1007,856	-2,0%	6,60						6,66	1007,914
1350+0.000	7,31	1006,963					-6,60	-2,0%	1007,701	1007,569	1007,206	0,36	773.488,409	8.186.137,467	1007,437	-2,0%	6,60						6,60	1007,435
1351+0.000	7,70	1006,234					-6,60	-2,0%	1007,228	1007,096	1006,706	0,39	773.507,628	8.186.131,933	1006,964	-2,0%	6,60						6,68	1006,915
1352+0.000	7,73	1005,684					-6,60	-2,0%	1006,701	1006,569	1006,126	0,44	773.526,847	8.186.126,399	1006,437	-2,0%	6,60						6,78	1006,316



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

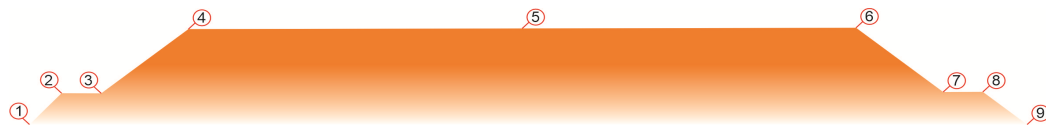
Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset						
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl				
	1		2		3		4					5			6			7		8		9					
1353+0.000	8,18	1004,807					-6,60	-2,0%	1006,121	1005,989	1005,340	0,65	773.546,066	8.186.120,865	1005,857	-2,0%	6,60							6,87	1005,678		
1354+0.000	8,44	1004,038					-6,60	-2,0%	1005,527	1005,395	1004,684	0,71	773.565,285	8.186.115,330	1005,263	-2,0%	6,60								7,28	1004,813	
1355+0.000	8,13	1003,646					-6,60	-2,0%	1004,933	1004,801	1004,164	0,64	773.584,504	8.186.109,796	1004,669	-2,0%	6,60								7,03	1004,379	
1356+0.000	8,02	1003,131					-6,60	-2,0%	1004,339	1004,207	1003,458	0,75	773.603,732	8.186.104,293	1004,075	-2,0%	6,60									7,14	1003,717
1357+0.000	8,57	1002,167					-6,60	-2,0%	1003,744	1003,612	1002,903	0,71	773.622,982	8.186.098,866	1003,480	-2,0%	6,60									7,26	1003,044
1358+0.000	8,85	1001,389					-6,60	-2,0%	1003,150	1003,018	1002,149	0,87	773.642,253	8.186.093,516	1002,886	-2,0%	6,60									7,22	1002,471
1359+0.000	8,90	1000,760					-6,60	-2,0%	1002,556	1002,424	1001,532	0,89	773.661,544	8.186.088,241	1002,292	-2,0%	6,60									7,29	1001,834
1360+0.000	9,15	999,997					-6,60	-2,0%	1001,962	1001,830	1000,704	1,13	773.680,841	8.186.082,985	1001,698	-2,0%	6,60									7,25	1001,268
1361+0.000	8,50	999,837					-6,60	-2,0%	1001,367	1001,235	1000,291	0,94	773.700,139	8.186.077,729	1001,103	-2,0%	6,60									7,33	1000,619
1362+0.000	8,91	998,969					-6,60	-2,0%	1000,773	1000,641	999,823	0,82	773.719,436	8.186.072,474	1000,509	-2,0%	6,60									7,23	1000,087
1363+0.000	8,85	998,417					-6,60	-2,0%	1000,179	1000,047	999,171	0,88	773.738,733	8.186.067,218	999,915	-2,0%	6,60									7,16	999,543
1364+0.000	8,79	997,859					-6,60	-2,0%	999,585	999,453	998,560	0,89	773.758,030	8.186.061,962	999,321	-2,0%	6,60									7,26	998,878
1365+0.000	8,28	997,606					-6,60	-2,0%	998,991	998,859	998,070	0,79	773.777,327	8.186.056,707	998,727	-2,0%	6,60									7,24	998,298
1366+0.000	8,45	996,901					-6,60	-2,0%	998,396	998,264	997,555	0,71	773.796,624	8.186.051,451	998,132	-2,0%	6,60									7,01	997,857
1367+0.000	8,61	996,200					-6,60	-2,0%	997,802	997,670	996,812	0,86	773.815,921	8.186.046,195	997,538	-2,0%	6,60									7,23	997,117
1368+0.000	8,53	995,655					-6,60	-2,0%	997,208	997,076	996,161	0,92	773.835,218	8.186.040,940	996,944	-2,0%	6,60									7,27	996,495
1369+0.000	9,02	994,739					-6,60	-2,0%	996,614	996,482	995,463	1,02	773.854,515	8.186.035,684	996,350	-2,0%	6,60									7,32	990,587
1370+0.000	9,23	994,002					-6,60	-2,0%	996,020	995,888	994,688	1,20	773.873,812	8.186.030,428	995,756	-2,0%	6,60									7,47	995,173
1371+0.000	8,91	993,620					-6,60	-2,0%	995,425	995,293	994,073	1,22	773.893,109	8.186.025,172	995,161	-2,0%	6,60									7,64	994,472
1372+0.000	10,01	992,294					-6,60	-2,0%	994,831	994,699	993,489	1,21	773.912,407	8.186.019,917	994,567	-2,0%	6,60									7,52	993,956
1373+0.000	10,11	991,635					-6,60	-2,0%	994,237	994,105	992,662	1,44	773.931,704	8.186.014,661	993,973	-2,0%	6,60									7,82	993,158
1374+0.000	9,84	991,220					-6,60	-2,0%	993,643	993,511	992,121	1,39	773.951,001	8.186.009,405	993,379	-2,0%	6,60									7,80	992,580
1375+0.000	9,83	990,631					-6,60	-2,0%	993,048	992,916	991,575	1,34	773.970,298	8.186.004,150	992,784	-2,0%	6,60									7,56	992,146
1376+0.000	9,59	990,197					-6,60	-2,0%	992,454	992,322	991,209	1,11	773.989,595	8.185.998,894	992,190	-2,0%	6,60									7,38	991,674
1377+0.000	9,01	989,992					-6,60	-2,0%	991,860	991,728	990,885	0,84	774.008,892	8.185.993,638	991,596	-2,0%	6,60									7,00	991,331
1378+0.000	8,41	989,793					-6,60	-2,0%	991,266	991,134	990,678	0,46	774.028,189	8.185.988,382	991,002	-2,0%	6,60									6,69	990,945
1379+0.000	8,02	989,464					-6,60	-2,0%	990,672	990,540	990,280	0,26	774.047,486	8.185.983,127	990,408	-2,0%	6,60									6,84	990,651
1380+0.000	7,43	989,285					-6,60	-2,0%	990,103	989,971	989,874	0,10	774.066,783	8.185.977,871	989,839	-2,0%	6,60									6,99	990,230
1381+0.000	7,07	989,068					-6,60	-2,0%	989,647	989,515	989,724	-0,21	774.086,080	8.185.972,615	989,383	-2,0%	6,60									7,37	990,151
1382+0.000	7,10	988,709					-6,60	-2,0%	989,309	989,177	989,344	-0,17	774.105,377	8.185.967,360	989,045	-2,0%	6,60									7,41	989,857
1383+0.000	6,99	988,569					-6,60	-2,0%	989,090	988,958	989,010	-0,05	774.124,674	8.185.962,104	988,826	-2,0%	6,60									7,22	989,449
1384+0.000	7,57	988,080					-6,60	-2,0%	988,989	988,857	988,696	0,16	774.143,972	8.185.956,848	988,725	-2,0%	6,60									6,91	989,037
1385+0.000	8,66	987,368					-6,60	-2,0%	989,008	988,876	988,279	0,60	774.163,269	8.185.951,593	988,744	-2,0%	6,60									6,60	988,741
1386+0.000	9,10	987,192					-6,60	-2,0%	989,119	988,987	988,030	0,96	774.182,566	8.185.946,337	988,855	-2,0%	6,60									7,18	988,469
1387+0.000	9,56	987,002					-6,60	-2,0%	989,238	989,106	987,718	1,39	774.201,863	8.185.941,081	988,974	-2,0%	6,60									7,74	988,217
1388+0.000	10,18	986,705					-6,60	-2,0%	989,356	989,224	987,407	1,82	774.221,160	8.185.935,825	989,092	-2,0%	6,60									8,58	987,771
1389+0.000	10,69	986,487					-6,60	-2,0%	989,474	989,342	987,122	2,22	774.240,457	8.185.930,570	989,210	-2,0%	6,60									9,20	987,476
1390+0.000	11,32	986,184					-6,60	-2,0%	989,593	989,461	986,714	2,75	774.259,754	8.185.925,314	989,329	-2,0%	6,60									9,90	987,128
1391+0.000	11,70	986,044					-6,60	-2,0%	989,711	989,579	986,395	3,18	774.279,051	8.185.920,058	989,447	-2,0%	6,60									10,58	986,796
1392+0.000	12,04	985,939					-6,60	-2,0%	989,829	989,697	986,241	3,46	774.298,348	8.185.914,803	989,565	-2,0%	6,60									11,13	986,543
1393+0.000	12,31	985,879					-6,60	-2,0%	989,948	989,816	986,114	3,70	774.317,645	8.185.909,547	989,684	-2,0%	6,60									11,66	986,310



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset				
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl		
	1		2		3		4			5				6			7				8		9		
1394+0.000	12,54	985,804					-6,60	-2,0%	990,030	989,898	985,985	3,91	774.336,934	8.185.904,259	989,766	-2,0%	6,60							11,79	986,308
1395+0.000	12,71	985,696					-6,60	-2,0%	990,032	989,900	986,086	3,81	774.356,200	8.185.898,894	989,768	-2,0%	6,60							11,79	986,308
1396+0.000	12,48	985,766					-6,60	-2,0%	989,953	989,821	986,098	3,72	774.375,446	8.185.893,452	989,689	-2,0%	6,60							11,58	986,368
1397+0.000	12,13	985,879					-6,60	-2,0%	989,830	989,698	986,088	3,61	774.394,670	8.185.887,936	989,566	-2,0%	6,60							11,32	986,420
1398+0.000	11,88	985,924					-6,60	-2,0%	989,706	989,574	986,239	3,33	774.413,889	8.185.882,401	989,442	-2,0%	6,60							11,04	986,484
1399+0.000	11,61	985,978					-6,60	-2,0%	989,583	989,451	986,364	3,09	774.433,108	8.185.876,867	989,319	-2,0%	6,60							10,69	986,594
1400+0.000	11,14	986,170					-6,60	-2,0%	989,459	989,327	986,614	2,71	774.452,327	8.185.871,332	989,195	-2,0%	6,60							10,26	986,759
1401+0.000	10,85	986,239					-6,60	-2,0%	989,336	989,204	986,732	2,47	774.471,546	8.185.865,798	989,072	-2,0%	6,60							9,71	986,999
1402+0.000	10,20	986,546					-6,60	-2,0%	989,212	989,080	986,955	2,13	774.490,765	8.185.860,263	988,948	-2,0%	6,60							9,33	987,128
1403+0.000	9,75	986,738					-6,60	-2,0%	989,104	988,972	987,199	1,77	774.509,984	8.185.854,729	988,840	-2,0%	6,60							8,85	987,342
1404+0.000	9,40	986,967					-6,60	-2,0%	989,095	988,963	987,436	1,53	774.529,203	8.185.849,194	988,831	-2,0%	6,60							8,38	987,647
1405+0.000	9,06	987,294					-6,60	-2,0%	989,198	989,066	987,818	1,25	774.548,422	8.185.843,660	988,934	-2,0%	6,60							8,12	987,922
1406+0.000	9,12	987,471					-6,60	-2,0%	989,413	989,281	988,058	1,22	774.567,641	8.185.838,125	989,149	-2,0%	6,60							7,75	988,381
1407+0.000	9,25	987,710					-6,60	-2,0%	989,739	989,607	988,593	1,01	774.586,860	8.185.832,590	989,475	-2,0%	6,60							7,64	988,781
1408+0.000	9,08	988,262					-6,60	-2,0%	990,177	990,045	989,027	1,02	774.606,079	8.185.827,056	989,913	-2,0%	6,60							7,52	989,298
1409+0.000	8,89	988,935					-6,60	-2,0%	990,727	990,595	989,624	0,97	774.625,298	8.185.821,521	990,463	-2,0%	6,60							7,45	989,897
1410+0.000	8,55	989,808					-6,60	-2,0%	991,373	991,241	990,063	1,18	774.644,517	8.185.815,987	991,109	-2,0%	6,60							7,70	990,378
1411+0.000	8,60	990,435					-6,60	-2,0%	992,032	991,900	990,786	1,11	774.663,736	8.185.810,452	991,768	-2,0%	6,60							7,64	991,074
1412+0.000	8,79	990,972					-6,60	-2,0%	992,691	992,559	991,408	1,15	774.682,955	8.185.804,918	992,427	-2,0%	6,60							7,77	991,648
1413+0.000	8,61	991,748					-6,60	-2,0%	993,350	993,218	992,203	1,01	774.702,174	8.185.799,383	993,086	-2,0%	6,60							7,56	992,447
1414+0.000	8,52	992,464					-6,60	-2,0%	994,009	993,877	992,865	1,01	774.721,393	8.185.793,848	993,745	-2,0%	6,60							7,55	993,111
1415+0.000	8,41	993,199					-6,60	-2,0%	994,668	994,536	993,613	0,92	774.740,612	8.185.788,314	994,404	-2,0%	6,60							7,45	993,835
1416+0.000	8,86	993,555					-6,60	-2,0%	995,327	995,195	994,171	1,02	774.759,831	8.185.782,779	995,063	-2,0%	6,60							7,43	994,511
1417+0.000	8,48	994,469					-6,60	-2,0%	995,986	995,854	995,095	0,76	774.779,050	8.185.777,245	995,722	-2,0%	6,60							7,24	995,293
1418+0.000	8,21	995,309					-6,60	-2,0%	996,644	996,512	995,770	0,74	774.798,269	8.185.771,710	996,380	-2,0%	6,60							7,07	996,069
1419+0.000	7,72	996,295					-6,60	-2,0%	997,303	997,171	996,530	0,64	774.817,487	8.185.766,176	997,039	-2,0%	6,60							7,04	996,749
1420+0.000	7,58	997,046					-6,60	-2,0%	997,962	997,830	997,250	0,58	774.836,706	8.185.760,641	997,698	-2,0%	6,60							6,93	997,478
1421+0.000	7,49	997,766					-6,60	-2,0%	998,621	998,489	998,013	0,48	774.855,925	8.185.755,107	998,357	-2,0%	6,60							6,87	998,177
1422+0.000	7,69	998,289					-6,60	-2,0%	999,280	999,148	998,709	0,44	774.875,144	8.185.749,572	999,016	-2,0%	6,60							6,78	998,897
1423+0.000	7,32	999,193					-6,60	-2,0%	999,939	999,807	999,462	0,35	774.894,363	8.185.744,037	999,675	-2,0%	6,60							6,66	999,635
1424+0.000	7,23	999,918					-6,60	-2,0%	1000,598	1000,466	1000,177	0,29	774.913,582	8.185.738,503	1000,334	-2,0%	6,60							6,65	1000,389
1425+0.000	7,22	1000,579					-6,60	-2,0%	1001,257	1001,125	1000,892	0,23	774.932,801	8.185.732,968	1000,993	-2,0%	6,60							6,69	1001,086
1426+0.000	7,10	1001,319					-6,60	-2,0%	1001,916	1001,784	1001,548	0,24	774.952,020	8.185.727,434	1001,652	-2,0%	6,60							6,62	1001,672
1427+0.000	7,30	1001,834					-6,60	-2,0%	1002,566	1002,434	1002,186	0,25	774.971,239	8.185.721,899	1002,302	-2,0%	6,60							6,61	1002,312
1428+0.000	7,22	1002,494					-6,60	-2,0%	1003,172	1003,040	1002,709	0,33	774.990,458	8.185.716,365	1002,908	-2,0%	6,60							6,65	1002,958
1429+0.000	7,27	1003,017					-6,60	-2,0%	1003,728	1003,596	1003,225	0,37	775.009,677	8.185.710,830	1003,464	-2,0%	6,60							6,71	1003,389
1430+0.000	7,13	1003,621					-6,60	-2,0%	1004,236	1004,104	1003,769	0,34	775.028,896	8.185.705,296	1003,972	-2,0%	6,60							6,72	1003,892
1431+0.000	7,31	1004,007					-6,67	-2,0%	1004,694	1004,561	1004,227	0,33	775.048,115	8.185.699,761	1004,429	-2,0%	6,60							6,70	1004,359
1432+0.000	7,83	1004,344					-7,10	-2,0%	1005,111	1004,969	1004,518	0,45	775.067,334	8.185.694,226	1004,837	-2,0%	6,60							6,95	1004,605
1433+0.000	8,34	1004,636					-7,53	-2,0%	1005,479	1005,328	1004,794	0,53	775.086,553	8.185.688,692	1005,196	-2,0%	6,60							7,00	1004,926
1434+0.000	9,05	1004,755					-7,96	-2,0%	1005,796	1005,637	1004,986	0,65	775.105,772	8.185.683,157	1005,499	-2,0%	6,89							7,48	1005,109



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset		
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl
	1		2		3		4					5			6			7		8		9	
1435+0.000	9,29	1004,941					-8,10	-2,0%	1006,059	1005,897	1005,112	0,79	775.124,991	8.185.677,623	1005,751	-2,0%	7,32					8,05	1005,266
1436+0.000	9,29	1005,152					-8,10	-2,0%	1006,270	1006,108	1005,278	0,83	775.144,210	8.185.672,088	1005,953	-2,0%	7,75					8,56	1005,409
1437+0.000	9,35	1005,283					-8,10	-2,0%	1006,439	1006,277	1005,542	0,74	775.163,429	8.185.666,554	1006,115	-2,0%	8,10					8,82	1005,638
1438+0.000	9,38	1005,429					-8,10	-2,0%	1006,604	1006,442	1005,733	0,71	775.182,648	8.185.661,019	1006,280	-2,0%	8,10					8,72	1005,864
1439+0.000	9,33	1005,626					-8,10	-2,0%	1006,769	1006,607	1005,821	0,79	775.201,867	8.185.655,484	1006,445	-2,0%	8,10					8,75	1006,009
1440+0.000	11,46	1005,588					-9,98	-2,0%	1006,972	1006,772	1006,107	0,67	775.221,086	8.185.649,950	1006,572	-2,0%	9,98					10,62	1006,145
1441+0.000	22,73	1005,563					-21,31	-2,0%	1007,362	1006,936	1005,936	1,00	775.240,305	8.185.644,415	1006,510	-2,0%	21,30					21,43	1006,425
1442+0.000	32,57	1005,426					-30,98	-2,0%	1007,721	1007,101	1005,993	1,11	775.259,524	8.185.638,881	1006,479	-2,0%	31,09					31,33	1006,727
1443+0.000	27,41	1005,709					-25,85	-2,0%	1007,783	1007,266	1006,197	1,07	775.278,743	8.185.633,346	1006,737	-2,0%	26,43					26,51	1006,679
1444+0.000	14,12	1005,701					-11,88	-2,0%	1007,669	1007,431	1006,027	1,40	775.297,962	8.185.627,812	1007,193	-2,0%	11,88					12,98	1006,455
1445+0.000	10,59	1005,773					-8,10	-2,0%	1007,757	1007,595	1006,062	1,53	775.317,181	8.185.622,277	1007,433	-2,0%	8,10					9,94	1006,207
1446+0.000	11,04	1005,640					-8,10	-2,0%	1007,922	1007,760	1005,969	1,79	775.336,400	8.185.616,743	1007,598	-2,0%	8,10					10,20	1006,198
1447+0.000	11,24	1005,671					-8,10	-2,0%	1008,087	1007,925	1005,914	2,01	775.355,619	8.185.611,208	1007,763	-2,0%	8,10					10,49	1006,173
1448+0.000	11,53	1005,487					-7,86	-2,0%	1008,247	1008,090	1005,979	2,11	775.374,837	8.185.605,673	1007,928	-2,0%	8,10					10,49	1006,337
1449+0.000	10,66	1005,954					-7,43	-2,0%	1008,404	1008,255	1006,366	1,89	775.394,056	8.185.600,139	1008,093	-2,0%	8,10					10,14	1006,734
1450+0.000	10,13	1006,194					-7,01	-2,0%	1008,559	1008,419	1006,676	1,74	775.413,275	8.185.594,604	1008,258	-2,0%	8,08					9,86	1007,068
1451+0.000	10,62	1005,770					-6,60	-2,0%	1008,716	1008,584	1006,512	2,07	775.432,494	8.185.589,070	1008,431	-2,0%	7,66					9,59	1007,142
1452+0.000	11,40	1005,396					-6,60	-2,0%	1008,856	1008,724	1005,976	2,75	775.451,713	8.185.583,535	1008,579	-2,0%	7,24					9,80	1006,877
1453+0.000	11,42	1005,437					-6,60	-2,0%	1008,916	1008,784	1005,954	2,83	775.470,932	8.185.578,001	1008,648	-2,0%	6,83					10,01	1006,528
1454+0.000	11,47	1005,387					-6,60	-2,0%	1008,895	1008,763	1005,901	2,86	775.490,151	8.185.572,466	1008,631	-2,0%	6,60					9,97	1006,385
1455+0.000	11,22	1005,449					-6,60	-2,0%	1008,792	1008,660	1005,830	2,83	775.509,370	8.185.566,932	1008,528	-2,0%	6,60					10,03	1006,238
1456+0.000	10,83	1005,552					-6,60	-2,0%	1008,632	1008,500	1005,878	2,62	775.528,589	8.185.561,397	1008,368	-2,0%	6,60					9,80	1006,236
1457+0.000	10,42	1005,660					-6,60	-2,0%	1008,470	1008,338	1005,927	2,41	775.547,808	8.185.555,862	1008,206	-2,0%	6,60					9,58	1006,220
1458+0.000	9,95	1005,814					-6,60	-2,0%	1008,309	1008,177	1006,069	2,11	775.567,027	8.185.550,328	1008,045	-2,0%	6,60					9,28	1006,257
1459+0.000	9,46	1005,977					-6,60	-2,0%	1008,147	1008,015	1006,153	1,86	775.586,246	8.185.544,793	1007,883	-2,0%	6,60					9,05	1006,252
1460+0.000	9,08	1006,070					-6,60	-2,0%	1007,985	1007,853	1006,257	1,60	775.605,465	8.185.539,259	1007,721	-2,0%	6,60					8,55	1006,419
1461+0.000	8,64	1006,198					-6,60	-2,0%	1007,823	1007,691	1006,422	1,27	775.624,684	8.185.533,724	1007,559	-2,0%	6,60					8,12	1006,547
1462+0.000	7,97	1006,510					-6,60	-2,0%	1007,687	1007,555	1006,709	0,85	775.643,903	8.185.528,190	1007,423	-2,0%	6,60					7,38	1006,904
1463+0.000	7,62	1006,709					-6,60	-2,0%	1007,654	1007,522	1006,963	0,56	775.663,122	8.185.522,655	1007,390	-2,0%	6,60					6,90	1007,192
1464+0.000	7,09	1007,139					-6,60	-2,0%	1007,729	1007,597	1007,272	0,32	775.682,341	8.185.517,120	1007,465	-2,0%	6,60					6,65	1007,432
1465+0.000	6,91	1007,442					-6,60	-2,0%	1007,910	1007,778	1007,576	0,20	775.701,560	8.185.511,586	1007,646	-2,0%	6,60					6,66	1007,708
1466+0.000	6,65	1007,903					-6,60	-2,0%	1008,199	1008,067	1008,032	0,03	775.720,779	8.185.506,051	1007,935	-2,0%	6,60					6,82	1008,157
1467+0.000	6,65	1008,270					-6,60	-2,0%	1008,568	1008,436	1008,347	0,09	775.739,998	8.185.500,517	1008,304	-2,0%	6,60					6,74	1008,446
1468+0.000	6,64	1008,654					-6,60	-2,0%	1008,943	1008,811	1008,774	0,04	775.759,217	8.185.494,982	1008,679	-2,0%	6,60					6,82	1008,896
1469+0.000	6,72	1008,973					-6,60	-2,0%	1009,317	1009,185	1009,114	0,07	775.778,436	8.185.489,448	1009,053	-2,0%	6,60					6,81	1009,260
1470+0.000	6,68	1009,378					-6,60	-2,0%	1009,692	1009,560	1009,503	0,06	775.797,655	8.185.483,913	1009,428	-2,0%	6,60					6,80	1009,628
1471+0.000	6,70	1009,736					-6,60	-2,0%	1010,067	1009,935	1009,838	0,10	775.816,874	8.185.478,379	1009,803	-2,0%	6,60					6,74	1009,942
1472+0.000	6,89	1009,987					-6,60	-2,0%	1010,441	1010,309	1010,263	0,05	775.836,093	8.185.472,844	1010,177	-2,0%	6,60					6,88	1010,461
1473+0.000	6,62	1010,569					-6,60	-2,0%	1010,816	1010,684	1010,713	-0,03	775.855,312	8.185.467,309	1010,552	-2,0%	6,60					6,91	1010,861
1474+0.000	6,62	1010,943					-6,60	-2,0%	1011,190	1011,058	1011,052	0,01	775.874,531	8.185.461,775	1010,926	-2,0%	6,60					6,86	1011,186
1475+0.000	6,63	1011,325					-6,60	-2,0%	1011,565	1011,433	1011,438	0,00	775.893,750	8.185.456,240	1011,301	-2,0%	6,60					6,86	1011,557



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1476+0.000	6,67	1011,632					-6,60	-2,0%	1011,939	1011,807	1011,716	0,09	775.912,969	8.185.450,706	1011,675	-2,0%	6,60						6,74	1011,818
1477+0.000	6,80	1011,915					-6,60	-2,0%	1012,314	1012,182	1011,998	0,18	775.932,187	8.185.445,171	1012,050	-2,0%	6,60						6,63	1012,077
1478+0.000	7,00	1012,159					-6,60	-2,0%	1012,688	1012,556	1012,277	0,28	775.951,406	8.185.439,637	1012,424	-2,0%	6,60						6,72	1012,341
1479+0.000	7,37	1012,289					-6,60	-2,0%	1013,063	1012,931	1012,449	0,48	775.970,625	8.185.434,102	1012,799	-2,0%	6,60						6,91	1012,590
1480+0.000	7,69	1012,446					-6,60	-2,0%	1013,438	1013,306	1012,558	0,75	775.989,844	8.185.428,568	1013,174	-2,0%	6,60						7,33	1012,687
1481+0.000	7,79	1012,755					-6,60	-2,0%	1013,809	1013,677	1012,807	0,87	776.009,063	8.185.423,033	1013,545	-2,0%	6,60						7,61	1012,869
1482+0.000	8,11	1012,840					-6,60	-2,0%	1014,112	1013,980	1012,855	1,13	776.028,282	8.185.417,498	1013,848	-2,0%	6,60						7,89	1012,989
1483+0.000	8,32	1012,907					-6,60	-2,0%	1014,317	1014,185	1012,952	1,23	776.047,501	8.185.411,964	1014,053	-2,0%	6,60						8,11	1013,045
1484+0.000	8,34	1013,002					-6,60	-2,0%	1014,425	1014,293	1013,076	1,22	776.066,720	8.185.406,429	1014,161	-2,0%	6,60						8,12	1013,147
1485+0.000	8,37	1012,988					-6,60	-2,0%	1014,434	1014,302	1013,106	1,20	776.085,939	8.185.400,895	1014,170	-2,0%	6,60						7,98	1013,253
1486+0.000	8,03	1013,131					-6,60	-2,0%	1014,346	1014,214	1013,364	0,85	776.105,158	8.185.395,360	1014,082	-2,0%	6,60						7,36	1013,574
1487+0.000	7,48	1013,312					-6,60	-2,0%	1014,163	1014,031	1013,426	0,60	776.124,377	8.185.389,826	1013,899	-2,0%	6,60						7,11	1013,556
1488+0.000	7,36	1013,182					-6,60	-2,0%	1013,951	1013,819	1013,330	0,49	776.143,596	8.185.384,291	1013,687	-2,0%	6,60						6,99	1013,427
1489+0.000	7,62	1012,796					-6,60	-2,0%	1013,740	1013,608	1013,074	0,53	776.162,815	8.185.378,756	1013,476	-2,0%	6,60						6,89	1013,284
1490+0.000	7,60	1012,600					-6,60	-2,0%	1013,528	1013,396	1012,794	0,60	776.182,034	8.185.373,222	1013,264	-2,0%	6,60						7,00	1012,998
1491+0.000	7,82	1012,241					-6,60	-2,0%	1013,316	1013,184	1012,449	0,74	776.201,253	8.185.367,687	1013,052	-2,0%	6,60						7,28	1012,600
1492+0.000	8,02	1011,895					-6,60	-2,0%	1013,104	1012,972	1012,098	0,87	776.220,472	8.185.362,153	1012,840	-2,0%	6,60						7,44	1012,280
1493+0.000	8,07	1011,648					-6,60	-2,0%	1012,892	1012,760	1011,725	1,03	776.239,691	8.185.356,618	1012,628	-2,0%	6,60						7,82	1011,814
1494+0.000	7,91	1011,542					-6,60	-2,0%	1012,681	1012,549	1011,573	0,98	776.258,910	8.185.351,084	1012,417	-2,0%	6,60						7,66	1011,708
1495+0.000	7,93	1011,320					-6,60	-2,0%	1012,469	1012,337	1011,451	0,89	776.278,129	8.185.345,549	1012,205	-2,0%	6,60						7,50	1011,606
1496+0.000	7,83	1011,172					-6,60	-2,0%	1012,257	1012,125	1011,264	0,86	776.297,348	8.185.340,015	1011,993	-2,0%	6,60						7,56	1011,351
1497+0.000	7,75	1011,013					-6,60	-2,0%	1012,045	1011,913	1011,097	0,82	776.316,567	8.185.334,480	1011,781	-2,0%	6,60						7,51	1011,178
1498+0.000	7,75	1010,801					-6,60	-2,0%	1011,834	1011,702	1010,892	0,81	776.335,786	8.185.328,945	1011,570	-2,0%	6,60						7,48	1010,982
1499+0.000	7,76	1010,588					-6,60	-2,0%	1011,622	1011,490	1010,646	0,84	776.355,005	8.185.323,411	1011,358	-2,0%	6,60						7,49	1010,761
1500+0.000	7,68	1010,429					-6,60	-2,0%	1011,410	1011,278	1010,496	0,78	776.374,224	8.185.317,876	1011,146	-2,0%	6,60						7,44	1010,588
1501+0.000	7,71	1010,197					-6,60	-2,0%	1011,198	1011,066	1010,247	0,82	776.393,443	8.185.312,342	1010,934	-2,0%	6,60						7,42	1010,385
1502+0.000	7,63	1010,034					-6,60	-2,0%	1010,986	1010,854	1010,078	0,78	776.412,662	8.185.306,807	1010,722	-2,0%	6,60						7,40	1010,189
1503+0.000	7,53	1009,890					-6,60	-2,0%	1010,775	1010,643	1009,889	0,75	776.431,881	8.185.301,273	1010,511	-2,0%	6,60						7,38	1009,992
1504+0.000	7,64	1009,608					-6,60	-2,0%	1010,563	1010,431	1009,696	0,74	776.451,100	8.185.295,738	1010,299	-2,0%	6,60						7,30	1009,833
1505+0.000	7,59	1009,425					-6,60	-2,0%	1010,351	1010,219	1009,501	0,72	776.470,319	8.185.290,203	1010,087	-2,0%	6,60						7,28	1009,634
1506+0.000	7,69	1009,147					-6,60	-2,0%	1010,138	1010,006	1009,263	0,74	776.489,537	8.185.284,669	1009,874	-2,0%	6,60						7,29	1009,412
1507+0.000	7,62	1008,947					-6,60	-2,0%	1009,891	1009,759	1009,035	0,72	776.508,756	8.185.279,134	1009,627	-2,0%	6,60						7,35	1009,124
1508+0.000	7,84	1008,510					-6,60	-2,0%	1009,600	1009,468	1008,624	0,84	776.527,975	8.185.273,600	1009,336	-2,0%	6,60						7,47	1008,754
1509+0.000	7,91	1008,128					-6,60	-2,0%	1009,264	1009,132	1008,262	0,87	776.547,194	8.185.268,065	1009,000	-2,0%	6,60						7,49	1008,407
1510+0.000	7,74	1007,860					-6,60	-2,0%	1008,886	1008,754	1007,988	0,77	776.566,413	8.185.262,531	1008,622	-2,0%	6,60						7,37	1008,109
1511+0.000	7,91	1007,357					-6,60	-2,0%	1008,497	1008,365	1007,520	0,85	776.585,632	8.185.256,996	1008,233	-2,0%	6,60						7,44	1007,670
1512+0.000	7,87	1006,995					-6,60	-2,0%	1008,107	1007,975	1007,160	0,82	776.604,851	8.185.251,462	1007,843	-2,0%	6,60						7,43	1007,292
1513+0.000	7,93	1006,565					-6,60	-2,0%	1007,718	1007,586	1006,634	0,95	776.624,070	8.185.245,927	1007,454	-2,0%	6,60						7,62	1006,776
1514+0.000	7,89	1006,207					-6,60	-2,0%	1007,328	1007,196	1006,327	0,87	776.643,289	8.185.240,392	1007,064	-2,0%	6,60						7,55	1006,429
1515+0.000	7,91	1005,801					-6,60	-2,0%	1006,939	1006,807	1005,919	0,89	776.662,508	8.185.234,858	1006,675	-2,0%	6,60						7,61	1005,999
1516+0.000	7,85	1005,456					-6,60	-2,0%	1006,550	1006,418	1005,534	0,88	776.681,727	8.185.229,323	1006,286	-2,0%	6,60						7,57	1005,636



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1517+0.000	7,76	1005,121					-6,60	-2,0%	1006,160	1006,028	1005,185	0,84	776.700,946	8.185.223,789	1005,896	-2,0%	6,60						7,52	1005,282
1518+0.000	7,86	1004,671					-6,60	-2,0%	1005,771	1005,639	1004,771	0,87	776.720,165	8.185.218,254	1005,507	-2,0%	6,60						7,57	1004,863
1519+0.000	7,72	1004,371					-6,60	-2,0%	1005,382	1005,250	1004,471	0,78	776.739,384	8.185.212,720	1005,118	-2,0%	6,60						7,43	1004,566
1520+0.000	7,88	1003,878					-6,60	-2,0%	1004,992	1004,860	1004,002	0,86	776.758,603	8.185.207,185	1004,728	-2,0%	6,60						7,50	1004,128
1521+0.000	7,85	1003,503					-6,60	-2,0%	1004,603	1004,471	1003,678	0,79	776.777,822	8.185.201,651	1004,339	-2,0%	6,60						7,44	1003,781
1522+0.000	7,97	1003,038					-6,60	-2,0%	1004,214	1004,082	1003,149	0,93	776.797,041	8.185.196,116	1003,950	-2,0%	6,60						7,59	1003,287
1523+0.000	8,04	1002,598					-6,60	-2,0%	1003,824	1003,692	1002,719	0,97	776.816,260	8.185.190,581	1003,560	-2,0%	6,60						7,68	1002,842
1524+0.000	7,97	1002,258					-6,60	-2,0%	1003,435	1003,303	1002,319	0,98	776.835,479	8.185.185,047	1003,171	-2,0%	6,60						7,67	1002,461
1525+0.000	8,08	1001,792					-6,60	-2,0%	1003,046	1002,914	1001,880	1,03	776.854,698	8.185.179,512	1002,782	-2,0%	6,60						7,82	1001,967
1526+0.000	7,93	1001,509					-6,60	-2,0%	1002,656	1002,524	1001,557	0,97	776.873,917	8.185.173,978	1002,392	-2,0%	6,60						7,70	1001,659
1527+0.000	7,98	1001,085					-6,60	-2,0%	1002,267	1002,135	1001,213	0,92	776.893,136	8.185.168,443	1002,003	-2,0%	6,60						7,63	1001,314
1528+0.000	8,10	1000,615					-6,60	-2,0%	1001,877	1001,745	1000,673	1,07	776.912,355	8.185.162,909	1001,613	-2,0%	6,60						7,91	1000,741
1529+0.000	8,21	1000,153					-6,60	-2,0%	1001,488	1001,356	1000,202	1,15	776.931,574	8.185.157,374	1001,224	-2,0%	6,60						7,87	1000,377
1530+0.000	8,18	999,784					-6,60	-2,0%	1001,099	1000,967	999,888	1,08	776.950,793	8.185.151,839	1000,835	-2,0%	6,60						7,81	1000,029
1531+0.000	8,15	999,412					-6,60	-2,0%	1000,709	1000,577	999,486	1,09	776.970,012	8.185.146,305	1000,445	-2,0%	6,60						7,87	999,601
1532+0.000	8,17	999,008					-6,60	-2,0%	1000,320	1000,188	999,138	1,05	776.989,231	8.185.140,770	1000,056	-2,0%	6,60						7,84	999,228
1533+0.000	8,14	998,643					-6,60	-2,0%	999,931	999,799	998,686	1,11	777.008,450	8.185.135,236	999,667	-2,0%	6,60						7,92	998,787
1534+0.000	8,13	998,259					-6,60	-2,0%	999,541	999,409	998,280	1,13	777.027,669	8.185.129,701	999,277	-2,0%	6,60						8,01	998,336
1535+0.000	8,13	997,870					-6,60	-2,0%	999,152	999,020	997,946	1,07	777.046,888	8.185.124,167	998,888	-2,0%	6,60						7,87	998,042
1536+0.000	8,21	997,433					-6,60	-2,0%	998,772	998,640	997,507	1,13	777.066,106	8.185.118,632	998,508	-2,0%	6,60						7,91	997,633
1537+0.000	8,04	997,185					-6,60	-2,0%	998,406	998,274	997,279	1,00	777.085,325	8.185.113,098	998,142	-2,0%	6,60						7,73	997,391
1538+0.000	7,89	996,930					-6,60	-2,0%	998,054	997,922	997,022	0,90	777.104,544	8.185.107,563	997,790	-2,0%	6,60						7,61	997,119
1539+0.000	7,83	996,624					-6,60	-2,0%	997,707	997,575	996,747	0,83	777.123,763	8.185.102,028	997,443	-2,0%	6,60						7,47	996,864
1540+0.000	7,89	996,240					-6,60	-2,0%	997,360	997,228	996,337	0,89	777.142,982	8.185.096,494	997,096	-2,0%	6,60						7,59	996,434
1541+0.000	7,88	995,898					-6,60	-2,0%	997,013	996,881	995,947	0,93	777.162,201	8.185.090,959	996,749	-2,0%	6,60						7,73	995,995
1542+0.000	8,03	995,449					-6,60	-2,0%	996,665	996,533	995,495	1,04	777.181,420	8.185.085,425	996,401	-2,0%	6,60						7,88	995,551
1543+0.000	8,23	994,970					-6,60	-2,0%	996,318	996,186	995,040	1,15	777.200,639	8.185.079,890	996,054	-2,0%	6,60						8,01	995,112
1544+0.000	8,19	994,646					-6,60	-2,0%	995,971	995,839	994,682	1,16	777.219,858	8.185.074,356	995,707	-2,0%	6,60						8,07	994,726
1545+0.000	8,10	994,361					-6,60	-2,0%	995,624	995,492	994,376	1,12	777.239,077	8.185.068,821	995,360	-2,0%	6,60						8,06	994,384
1546+0.000	8,10	994,012					-6,60	-2,0%	995,277	995,145	993,975	1,17	777.258,296	8.185.063,287	995,013	-2,0%	6,60						8,22	993,932
1547+0.000	8,00	993,732					-6,60	-2,0%	994,929	994,797	993,705	1,09	777.277,515	8.185.057,752	994,665	-2,0%	6,60						8,11	993,661
1548+0.000	8,00	993,387					-6,60	-2,0%	994,582	994,450	993,390	1,06	777.296,734	8.185.052,217	994,318	-2,0%	6,60						7,99	993,390
1549+0.000	8,22	992,894					-6,60	-2,0%	994,235	994,103	993,003	1,10	777.315,953	8.185.046,683	993,971	-2,0%	6,60						7,95	993,071
1550+0.000	7,96	992,718					-6,60	-2,0%	993,888	993,756	992,668	1,09	777.335,172	8.185.041,148	993,624	-2,0%	6,60						7,98	992,706
1551+0.000	7,96	992,367					-6,60	-2,0%	993,540	993,408	992,377	1,03	777.354,391	8.185.035,614	993,276	-2,0%	6,60						7,90	992,409
1552+0.000	7,91	992,053					-6,60	-2,0%	993,193	993,061	992,132	0,93	777.373,610	8.185.030,079	992,929	-2,0%	6,60						7,71	992,186
1553+0.000	7,62	991,926					-6,60	-2,0%	992,866	992,734	991,896	0,84	777.392,829	8.185.024,545	992,602	-2,0%	6,60						7,69	991,878
1554+0.000	7,52	991,718					-6,60	-2,0%	992,593	992,461	991,542	0,92	777.412,048	8.185.019,010	992,329	-2,0%	6,60						7,76	991,556
1555+0.000	7,47	991,528					-6,60	-2,0%	992,373	992,241	991,351	0,89	777.431,267	8.185.013,475	992,109	-2,0%	6,60						7,87	991,261
1556+0.000	7,52	991,333					-6,60	-2,0%	992,207	992,075	991,206	0,87	777.450,486	8.185.007,941	991,943	-2,0%	6,60						7,81	991,133
1557+0.000	7,41	991,268					-6,60	-2,0%	992,074	991,942	991,172	0,77	777.469,705	8.185.002,406	991,810	-2,0%	6,60						7,60	991,142



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1558+0.000	7,16	991,305					-6,60	-2,0%	991,941	991,809	991,006	0,80	777.488,924	8.184.996,872	991,677	-2,0%	6,60						7,94	990,786
1559+0.000	7,10	991,213					-6,60	-2,0%	991,809	991,677	990,900	0,78	777.508,143	8.184.991,337	991,545	-2,0%	6,60						7,72	990,799
1560+0.000	6,98	991,157					-6,60	-2,0%	991,676	991,544	990,883	0,66	777.527,362	8.184.985,803	991,412	-2,0%	6,60						7,68	990,691
1561+0.000	6,91	991,070					-6,60	-2,0%	991,544	991,412	990,846	0,57	777.546,581	8.184.980,268	991,280	-2,0%	6,60						7,46	990,705
1562+0.000	6,79	991,024					-6,60	-2,0%	991,411	991,279	990,854	0,42	777.565,800	8.184.974,734	991,147	-2,0%	6,60						7,26	990,709
1563+0.000	6,68	991,089					-6,60	-2,0%	991,278	991,146	990,893	0,25	777.585,019	8.184.969,199	991,014	-2,0%	6,60						7,02	990,733
1564+0.000	6,78	991,062					-6,60	-2,0%	991,146	991,014	990,907	0,11	777.604,238	8.184.963,664	990,882	-2,0%	6,60						6,69	990,821
1565+0.000	6,96	991,111					-6,60	-2,0%	991,013	990,881	991,064	-0,18	777.623,456	8.184.958,130	990,749	-2,0%	6,60						6,89	991,043
1566+0.000	7,30	991,319					-6,60	-2,0%	990,881	990,749	991,306	-0,56	777.642,675	8.184.952,595	990,617	-2,0%	6,60						7,23	991,250
1567+0.000	7,61	991,498					-6,60	-2,0%	990,748	990,616	991,561	-0,95	777.661,894	8.184.947,061	990,484	-2,0%	6,60						7,64	991,522
1568+0.000	7,96	991,710					-6,60	-2,0%	990,616	990,484	991,853	-1,37	777.681,113	8.184.941,526	990,352	-2,0%	6,60						8,11	991,863
1569+0.000	8,22	991,843					-6,60	-2,0%	990,483	990,351	991,831	-1,48	777.700,332	8.184.935,992	990,219	-2,0%	6,60						8,27	991,890
1570+0.000	8,59	992,079					-6,60	-2,0%	990,351	990,219	992,091	-1,87	777.719,551	8.184.930,457	990,087	-2,0%	6,60						8,44	991,929
1571+0.000	8,72	992,073					-6,60	-2,0%	990,218	990,086	991,950	-1,86	777.738,770	8.184.924,923	989,954	-2,0%	6,60						8,52	991,877
1572+0.000	8,47	991,694					-6,60	-2,0%	990,086	989,954	991,709	-1,76	777.757,989	8.184.919,388	989,822	-2,0%	6,60						8,42	991,641
1573+0.000	8,06	991,153					-6,60	-2,0%	989,953	989,821	991,243	-1,42	777.777,208	8.184.913,853	989,689	-2,0%	6,60						8,25	991,344
1574+0.000	7,95	990,903					-6,60	-2,0%	989,821	989,689	990,902	-1,21	777.796,427	8.184.908,319	989,557	-2,0%	6,60						7,98	990,934
1575+0.000	7,23	990,058					-6,60	-2,0%	989,688	989,556	990,206	-0,65	777.815,646	8.184.902,784	989,424	-2,0%	6,60						7,39	990,215
1576+0.000	6,80	989,161					-6,60	-2,0%	989,556	989,424	989,328	0,10	777.834,865	8.184.897,250	989,292	-2,0%	6,60						6,77	989,460
1577+0.000	8,44	989,934					-6,60	-2,0%	989,423	989,291	988,437	0,85	777.854,084	8.184.891,715	989,159	-2,0%	6,60						7,37	988,647
1578+0.000	9,39	987,168					-6,60	-2,0%	989,291	989,159	987,662	1,50	777.873,303	8.184.886,181	989,027	-2,0%	6,60						8,38	987,843
1579+0.000	10,29	986,432					-6,60	-2,0%	989,158	989,026	987,033	1,99	777.892,522	8.184.880,646	988,894	-2,0%	6,60						9,04	987,269
1580+0.000	10,93	985,874					-6,60	-2,0%	989,026	988,894	986,578	2,32	777.911,741	8.184.875,111	988,762	-2,0%	6,60						9,33	986,939
1581+0.000	11,16	985,587					-6,60	-2,0%	988,893	988,761	986,053	2,71	777.930,960	8.184.869,577	988,629	-2,0%	6,60						9,75	986,532
1582+0.000	11,48	985,243					-6,60	-2,0%	988,761	988,629	985,776	2,85	777.950,179	8.184.864,042	988,497	-2,0%	6,60						10,16	986,127
1583+0.000	11,85	984,866					-6,60	-2,0%	988,628	988,496	985,398	3,10	777.969,398	8.184.858,508	988,364	-2,0%	6,60						10,33	985,879
1584+0.000	11,87	984,721					-6,60	-2,0%	988,497	988,365	985,278	3,09	777.988,617	8.184.852,973	988,233	-2,0%	6,60						10,31	985,759
1585+0.000	11,61	984,831					-6,60	-2,0%	988,431	988,299	985,229	3,07	778.007,836	8.184.847,439	988,167	-2,0%	6,60						10,22	985,751
1586+0.000	11,75	984,765					-6,60	-2,0%	988,465	988,333	985,256	3,08	778.027,055	8.184.841,904	988,201	-2,0%	6,60						10,19	985,809
1587+0.000	11,52	985,054					-6,60	-2,0%	988,597	988,465	985,572	2,89	778.046,274	8.184.836,370	988,333	-2,0%	6,60						9,98	986,080
1588+0.000	11,30	985,432					-6,60	-2,0%	988,828	988,696	985,984	2,71	778.065,493	8.184.830,835	988,564	-2,0%	6,60						9,56	986,590
1589+0.000	11,03	985,874					-6,60	-2,0%	989,093	988,961	986,548	2,41	778.084,712	8.184.825,300	988,829	-2,0%	6,60						9,24	987,069
1590+0.000	10,74	986,336					-6,60	-2,0%	989,358	989,226	987,025	2,20	778.103,931	8.184.819,766	989,094	-2,0%	6,60						8,96	987,520
1591+0.000	10,28	986,907					-6,60	-2,0%	989,623	989,491	987,710	1,78	778.123,150	8.184.814,231	989,359	-2,0%	6,60						8,30	988,227
1592+0.000	9,65	987,589					-6,60	-2,0%	989,888	989,756	988,420	1,34	778.142,369	8.184.808,697	989,624	-2,0%	6,60						7,80	988,827
1593+0.000	8,76	988,448					-6,60	-2,0%	990,153	990,021	989,170	0,85	778.161,588	8.184.803,162	989,889	-2,0%	6,60						7,12	989,543
1594+0.000	7,63	989,466					-6,60	-2,0%	990,418	990,286	990,006	0,28	778.180,806	8.184.797,628	990,154	-2,0%	6,60						6,81	990,364
1595+0.000	6,81	990,628					-6,60	-2,0%	990,683	990,551	990,756	-0,20	778.200,025	8.184.792,093	990,419	-2,0%	6,60						7,28	991,097
1596+0.000	6,96	991,043					-6,60	-2,0%	990,947	990,815	991,630	-0,81	778.219,244	8.184.786,558	990,683	-2,0%	6,60						7,84	991,928
1597+0.000	7,61	991,958					-6,60	-2,0%	991,212	991,080	992,287	-1,21	778.238,463	8.184.781,024	990,948	-2,0%	6,60						8,30	992,652
1598+0.000	7,84	992,457					-6,60	-2,0%	991,477	991,345	993,076	-1,73	778.257,682	8.184.775,489	991,213	-2,0%	6,60						8,72	993,333



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset		
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl
	1		2		3		4					5			6			7		8		9	
1599+0.000	8,04	992,918					-6,60	-2,0%	991,742	991,610	993,601	-1,99	778.276,901	8.184.769,955	991,478	-2,0%	6,60					8,98	993,862
1600+0.000	8,25	993,391					-6,60	-2,0%	992,007	991,875	993,860	-1,99	778.296,120	8.184.764,420	991,743	-2,0%	6,60					9,00	994,146
1601+0.000	8,31	993,714					-6,60	-2,0%	992,272	992,140	994,004	-1,86	778.315,339	8.184.758,886	992,008	-2,0%	6,60					8,85	994,257
1602+0.000	7,97	993,644					-6,60	-2,0%	992,537	992,405	993,984	-1,58	778.334,558	8.184.753,351	992,273	-2,0%	6,60					8,58	994,252
1603+0.000	7,33	993,271					-6,60	-2,0%	992,802	992,670	993,543	-0,87	778.353,777	8.184.747,817	992,538	-2,0%	6,60					7,99	993,926
1604+0.000	6,74	992,713					-6,60	-2,0%	993,067	992,935	993,099	-0,16	778.372,996	8.184.742,282	992,803	-2,0%	6,60					7,20	993,407
1605+0.000	7,98	992,132					-6,60	-2,0%	993,316	993,184	992,442	0,74	778.392,215	8.184.736,747	993,052	-2,0%	6,60					6,88	992,863
1606+0.000	9,35	991,376					-6,60	-2,0%	993,475	993,343	991,870	1,47	778.411,434	8.184.731,213	993,211	-2,0%	6,60					7,91	992,335
1607+0.000	10,17	990,891					-6,60	-2,0%	993,533	993,401	991,379	2,02	778.430,653	8.184.725,678	993,269	-2,0%	6,60					8,75	991,834
1608+0.000	10,78	990,438					-6,60	-2,0%	993,490	993,358	990,860	2,50	778.449,872	8.184.720,144	993,226	-2,0%	6,60					9,44	991,331
1609+0.000	11,03	990,148					-6,60	-2,0%	993,364	993,232	990,367	2,87	778.469,091	8.184.714,609	993,100	-2,0%	6,60					9,96	990,856
1610+0.000	11,46	989,723					-6,60	-2,0%	993,227	993,095	990,068	3,03	778.488,310	8.184.709,075	992,963	-2,0%	6,60					10,37	990,452
1611+0.000	11,13	989,804					-6,60	-2,0%	993,090	992,958	990,106	2,85	778.507,529	8.184.703,540	992,826	-2,0%	6,60					10,43	990,276
1612+0.000	10,43	990,134					-6,60	-2,0%	992,953	992,821	990,141	2,68	778.526,748	8.184.698,006	992,689	-2,0%	6,60					10,31	990,219
1613+0.000	10,36	990,050					-6,60	-2,0%	992,817	992,685	990,242	2,44	778.545,967	8.184.692,471	992,553	-2,0%	6,60					9,92	990,339
1614+0.000	10,26	989,973					-6,60	-2,0%	992,680	992,548	990,341	2,21	778.565,186	8.184.686,936	992,416	-2,0%	6,60					9,53	990,466
1615+0.000	9,33	990,464					-6,60	-2,0%	992,546	992,414	990,624	1,79	778.584,405	8.184.681,402	992,282	-2,0%	6,60					9,03	990,665
1616+0.000	9,16	990,514					-6,60	-2,0%	992,485	992,353	990,789	1,56	778.603,624	8.184.675,867	992,221	-2,0%	6,60					8,41	991,014
1617+0.000	8,64	990,905					-6,60	-2,0%	992,529	992,397	991,285	1,11	778.622,843	8.184.670,333	992,265	-2,0%	6,60					7,82	991,454
1618+0.000	8,37	991,236					-6,60	-2,0%	992,679	992,547	991,503	1,04	778.642,062	8.184.664,798	992,415	-2,0%	6,60					7,37	991,900
1619+0.000	7,95	991,774					-6,60	-2,0%	992,934	992,802	991,988	0,81	778.661,281	8.184.659,264	992,670	-2,0%	6,60					6,98	992,416
1620+0.000	7,86	992,191					-6,60	-2,0%	993,295	993,163	992,404	0,76	778.680,500	8.184.653,729	993,031	-2,0%	6,60					6,83	992,880
1621+0.000	7,87	992,651					-6,60	-2,0%	993,762	993,630	992,848	0,78	778.699,719	8.184.648,194	993,498	-2,0%	6,60					6,61	993,493
1622+0.000	7,62	993,388					-6,60	-2,0%	994,334	994,202	993,790	0,41	778.718,938	8.184.642,660	994,070	-2,0%	6,60					6,71	994,180
1623+0.000	7,46	994,171					-6,60	-2,0%	995,011	994,879	994,510	0,37	778.738,156	8.184.637,125	994,747	-2,0%	6,60					6,90	995,043
1624+0.000	7,53	994,907					-6,60	-2,0%	995,794	995,662	995,098	0,56	778.757,375	8.184.631,591	995,530	-2,0%	6,60					6,85	995,784
1625+0.000	7,66	995,709					-6,60	-2,0%	996,680	996,548	995,663	0,88	778.776,594	8.184.626,056	996,416	-2,0%	6,60					6,66	996,479
1626+0.000	7,60	996,666					-6,60	-2,0%	997,599	997,467	996,557	0,91	778.795,813	8.184.620,522	997,335	-2,0%	6,60					6,78	997,215
1627+0.000	7,78	997,465					-6,60	-2,0%	998,517	998,385	997,217	1,17	778.815,032	8.184.614,987	998,253	-2,0%	6,60					6,90	998,056
1628+0.000	7,98	998,253					-6,60	-2,0%	999,436	999,304	998,101	1,20	778.834,251	8.184.609,453	999,172	-2,0%	6,60					6,88	998,988
1629+0.000	7,84	999,267					-6,60	-2,0%	1000,354	1000,222	999,441	0,78	778.853,470	8.184.603,918	1000,090	-2,0%	6,60					7,00	999,827
1630+0.000	7,98	1000,089					-6,60	-2,0%	1001,273	1001,141	1000,113	1,03	778.872,689	8.184.598,383	1001,009	-2,0%	6,60					7,17	1000,629
1631+0.000	7,74	1001,168					-6,60	-2,0%	1002,191	1002,059	1000,784	1,27	778.891,908	8.184.592,849	1001,927	-2,0%	6,60					7,20	1001,526
1632+0.000	7,83	1002,026					-6,60	-2,0%	1003,110	1002,978	1001,719	1,26	778.911,127	8.184.587,314	1002,846	-2,0%	6,60					7,33	1002,361
1633+0.000	7,74	1003,004					-6,60	-2,0%	1004,029	1003,897	1002,623	1,27	778.930,346	8.184.581,780	1003,765	-2,0%	6,60					7,25	1003,331
1634+0.000	7,27	1004,234					-6,60	-2,0%	1004,947	1004,815	1004,285	0,53	778.949,565	8.184.576,245	1004,683	-2,0%	6,60					7,16	1004,310
1635+0.000	7,48	1006,483					-6,60	-2,0%	1005,866	1005,734	1004,683	1,05	778.968,784	8.184.570,711	1005,602	-2,0%	6,60					7,23	1005,180
1636+0.000	6,67	1006,472					-6,60	-2,0%	1006,784	1006,652	1005,895	0,76	778.988,003	8.184.565,176	1006,520	-2,0%	6,60					7,45	1005,952
1637+0.000	7,93	1006,549					-6,60	-2,0%	1007,703	1007,571	1006,758	0,81	779.007,222	8.184.559,642	1007,439	-2,0%	6,60					7,39	1006,914
1638+0.000	8,04	1007,400					-6,60	-2,0%	1008,621	1008,489	1007,459	1,03	779.026,441	8.184.554,107	1008,357	-2,0%	6,60					7,69	1007,630
1639+0.000	7,97	1008,361					-6,60	-2,0%	1009,540	1009,408	1008,095	1,31	779.045,660	8.184.548,572	1009,276	-2,0%	6,60					7,38	1008,755



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1640+0.000	7,82	1009,384					-6,60	-2,0%	1010,458	1010,326	1009,556	0,77	779.064,879	8.184.543,038	1010,194	-2,0%	6,60						7,23	1009,773
1641+0.000	8,16	1010,076					-6,60	-2,0%	1011,377	1011,245	1010,063	1,18	779.084,098	8.184.537,503	1011,113	-2,0%	6,60						7,10	1010,780
1642+0.000	7,24	1011,603					-6,60	-2,0%	1012,295	1012,163	1011,168	1,00	779.103,317	8.184.531,969	1012,031	-2,0%	6,60						7,16	1011,659
1643+0.000	7,09	1012,603					-6,60	-2,0%	1013,191	1013,059	1012,476	0,58	779.122,536	8.184.526,434	1012,927	-2,0%	6,60						6,83	1012,777
1644+0.000	6,65	1013,804					-6,60	-2,0%	1014,017	1013,885	1013,615	0,27	779.141,755	8.184.520,899	1013,753	-2,0%	6,60						6,72	1013,675
1645+0.000	6,85	1014,759					-6,60	-2,0%	1014,770	1014,638	1014,647	-0,01	779.160,952	8.184.515,289	1014,506	-2,0%	6,60						7,03	1014,931
1646+0.000	7,16	1015,745					-6,60	-2,0%	1015,451	1015,319	1015,539	-0,22	779.180,111	8.184.509,551	1015,187	-2,0%	6,60						7,02	1015,602
1647+0.000	7,07	1016,261					-6,60	-2,0%	1016,060	1015,928	1016,097	-0,17	779.199,231	8.184.503,686	1015,796	-2,0%	6,60						7,16	1016,356
1648+0.000	7,42	1017,148					-6,60	-2,0%	1016,596	1016,464	1016,981	-0,52	779.218,313	8.184.497,693	1016,332	-2,0%	6,60						7,58	1017,314
1649+0.000	7,52	1017,713					-6,60	-2,0%	1017,060	1016,928	1017,760	-0,83	779.237,353	8.184.491,574	1016,796	-2,0%	6,60						7,74	1017,936
1650+0.000	7,42	1018,008					-6,60	-2,0%	1017,451	1017,319	1018,003	-0,68	779.256,353	8.184.485,327	1017,187	-2,0%	6,60						7,63	1018,222
1651+0.000	7,20	1018,104					-6,60	-2,0%	1017,770	1017,638	1018,172	-0,53	779.275,310	8.184.478,954	1017,506	-2,0%	6,60						7,51	1018,415
1652+0.000	6,94	1018,093					-6,60	-2,0%	1018,017	1017,885	1018,293	-0,41	779.294,224	8.184.472,454	1017,753	-2,0%	6,60						7,43	1018,580
1653+0.000	6,74	1018,068					-6,60	-2,0%	1018,192	1018,060	1018,229	-0,17	779.313,095	8.184.465,829	1017,928	-2,0%	6,60						7,18	1018,506
1654+0.000	7,24	1017,606					-6,60	-2,0%	1018,294	1018,162	1017,802	0,36	779.331,921	8.184.459,078	1018,030	-2,0%	6,60						6,82	1018,250
1655+0.000	7,21	1017,657					-6,60	-2,0%	1018,324	1018,192	1017,654	0,54	779.350,705	8.184.452,209	1018,060	-2,0%	6,60						6,68	1018,007
1656+0.000	7,62	1017,339					-6,60	-2,0%	1018,281	1018,149	1017,510	0,64	779.369,478	8.184.445,313	1018,017	-2,0%	6,60						6,90	1017,818
1657+0.000	8,11	1016,894					-6,60	-2,0%	1018,167	1018,035	1017,000	1,03	779.388,252	8.184.438,417	1017,903	-2,0%	6,60						7,34	1017,412
1658+0.000	8,32	1016,568					-6,60	-2,0%	1017,980	1017,848	1016,548	1,30	779.407,025	8.184.431,521	1017,716	-2,0%	6,60						7,53	1017,096
1659+0.000	8,56	1016,149					-6,60	-2,0%	1017,720	1017,588	1016,352	1,24	779.425,799	8.184.424,625	1017,456	-2,0%	6,60						7,77	1016,679
1660+0.000	8,35	1015,960					-6,60	-2,0%	1017,388	1017,256	1016,356	0,90	779.444,572	8.184.417,729	1017,124	-2,0%	6,60						7,38	1016,603
1661+0.000	8,37	1015,544					-6,60	-2,0%	1016,984	1016,852	1015,798	1,05	779.463,346	8.184.410,833	1016,720	-2,0%	6,60						7,25	1016,285
1662+0.000	8,14	1015,256					-6,60	-2,0%	1016,543	1016,411	1015,500	0,91	779.482,119	8.184.403,936	1016,279	-2,0%	6,60						7,32	1015,797
1663+0.000	7,59	1015,180					-6,60	-2,0%	1016,102	1015,970	1015,461	0,51	779.500,893	8.184.397,040	1015,838	-2,0%	6,60						6,82	1015,689
1664+0.000	7,18	1015,008					-6,60	-2,0%	1015,661	1015,529	1015,254	0,27	779.519,666	8.184.390,144	1015,397	-2,0%	6,60						6,69	1015,484
1665+0.000	7,86	1014,115					-6,60	-2,0%	1015,221	1015,089	1014,997	0,09	779.538,440	8.184.383,248	1014,957	-2,0%	6,60						6,93	1015,290
1666+0.000	6,71	1014,623					-6,60	-2,0%	1014,780	1014,648	1014,630	0,02	779.557,213	8.184.376,352	1014,516	-2,0%	6,60						7,08	1014,997
1667+0.000	6,67	1014,141					-6,60	-2,0%	1014,339	1014,207	1014,322	-0,12	779.575,987	8.184.369,456	1014,075	-2,0%	6,60						7,23	1014,703
1668+0.000	6,85	1013,883					-6,60	-2,0%	1013,898	1013,766	1013,887	-0,12	779.594,760	8.184.362,560	1013,634	-2,0%	6,60						7,10	1014,138
1669+0.000	6,80	1013,395					-6,60	-2,0%	1013,457	1013,325	1013,607	-0,28	779.613,533	8.184.355,664	1013,193	-2,0%	6,60						7,36	1013,950
1670+0.000	6,81	1012,957					-6,60	-2,0%	1013,016	1012,884	1013,053	-0,17	779.632,307	8.184.348,768	1012,752	-2,0%	6,60						7,40	1013,551
1671+0.000	6,81	1012,523					-6,60	-2,0%	1012,575	1012,443	1012,584	-0,14	779.651,080	8.184.341,872	1012,311	-2,0%	6,60						7,24	1012,948
1672+0.000	6,80	1012,071					-6,60	-2,0%	1012,134	1012,002	1012,199	-0,20	779.669,854	8.184.334,975	1011,870	-2,0%	6,60						7,18	1012,448
1673+0.000	6,77	1011,599					-6,60	-2,0%	1011,693	1011,561	1011,532	0,03	779.688,627	8.184.328,079	1011,429	-2,0%	6,60						7,13	1011,960
1674+0.000	6,83	1010,834					-6,60	-2,0%	1011,252	1011,120	1010,819	0,30	779.707,401	8.184.321,183	1010,988	-2,0%	6,60						6,89	1011,276
1675+0.000	7,21	1010,142					-6,60	-2,0%	1010,811	1010,679	1010,251	0,43	779.726,174	8.184.314,287	1010,547	-2,0%	6,60						6,64	1010,586
1676+0.000	7,67	1009,394					-6,60	-2,0%	1010,370	1010,238	1009,453	0,79	779.744,948	8.184.307,391	1010,106	-2,0%	6,60						6,96	1009,870
1677+0.000	7,86	1008,826					-6,60	-2,0%	1009,929	1009,797	1008,814	0,98	779.763,721	8.184.300,495	1009,665	-2,0%	6,60						7,43	1009,115
1678+0.000	7,09	1008,901					-6,60	-2,0%	1009,488	1009,356	1008,738	0,62	779.782,495	8.184.293,599	1009,224	-2,0%	6,60						7,52	1008,610
1679+0.000	8,90	1007,250					-6,60	-2,0%	1009,048	1008,916	1007,105	1,81	779.801,268	8.184.286,703	1008,784	-2,0%	6,60						8,12	1007,771
1680+0.000	9,55	1006,387					-6,60	-2,0%	1008,616	1008,484	1006,431	2,05	779.820,042	8.184.279,807	1008,352	-2,0%	6,60						8,39	1007,156



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1681+0.000	9,97	1005,732					-6,60	-2,0%	1008,241	1008,109	1005,911	2,20	779.838,815	8.184.272,910	1007,977	-2,0%	6,60						8,80	1006,513
1682+0.000	10,32	1005,188					-6,60	-2,0%	1007,932	1007,800	1005,235	2,56	779.857,589	8.184.266,014	1007,668	-2,0%	6,60						9,19	1005,940
1683+0.000	10,71	1004,685					-6,60	-2,0%	1007,688	1007,556	1004,878	2,68	779.876,362	8.184.259,118	1007,424	-2,0%	6,60						9,60	1005,423
1684+0.000	11,03	1004,282					-6,60	-2,0%	1007,500	1007,368	1004,650	2,72	779.895,136	8.184.252,222	1007,236	-2,0%	6,60						9,89	1005,043
1685+0.000	11,37	1003,876					-6,60	-2,0%	1007,319	1007,187	1004,157	3,03	779.913,909	8.184.245,326	1007,055	-2,0%	6,60						10,32	1004,578
1686+0.000	11,63	1003,522					-6,60	-2,0%	1007,138	1007,006	1004,129	2,88	779.932,683	8.184.238,430	1006,874	-2,0%	6,60						10,38	1004,353
1687+0.000	10,66	1003,988					-6,60	-2,0%	1006,957	1006,825	1004,228	2,60	779.951,456	8.184.231,534	1006,693	-2,0%	6,60						10,53	1004,070
1688+0.000	10,58	1003,860					-6,60	-2,0%	1006,776	1006,644	1003,871	2,77	779.970,230	8.184.224,638	1006,512	-2,0%	6,60						10,26	1004,075
1689+0.000	10,81	1003,526					-6,60	-2,0%	1006,595	1006,463	1003,810	2,65	779.989,003	8.184.217,742	1006,331	-2,0%	6,60						10,07	1004,020
1690+0.000	9,59	1004,156					-6,60	-2,0%	1006,414	1006,282	1004,008	2,27	780.007,777	8.184.210,846	1006,150	-2,0%	6,60						9,65	1004,120
1691+0.000	10,01	1003,696					-6,60	-2,0%	1006,233	1006,101	1004,136	1,97	780.026,550	8.184.203,949	1005,969	-2,0%	6,60						9,17	1004,253
1692+0.000	9,35	1003,955					-6,60	-2,0%	1006,052	1005,920	1004,306	1,61	780.045,324	8.184.197,053	1005,788	-2,0%	6,60						8,87	1004,276
1693+0.000	8,74	1004,209					-6,60	-2,0%	1005,900	1005,768	1004,562	1,21	780.064,097	8.184.190,157	1005,636	-2,0%	6,60						8,37	1004,459
1694+0.000	7,94	1004,723					-6,60	-2,0%	1005,881	1005,749	1004,698	1,05	780.082,871	8.184.183,261	1005,617	-2,0%	6,60						8,16	1004,575
1695+0.000	7,62	1005,059					-6,60	-2,0%	1006,003	1005,871	1005,204	0,67	780.101,644	8.184.176,365	1005,739	-2,0%	6,60						7,61	1005,063
1696+0.000	7,63	1005,314					-6,60	-2,0%	1006,268	1006,136	1005,110	1,03	780.120,418	8.184.169,469	1006,004	-2,0%	6,60						7,60	1005,334
1697+0.000	7,58	1005,756					-6,60	-2,0%	1006,673	1006,541	1005,670	0,87	780.139,191	8.184.162,573	1006,409	-2,0%	6,60						6,84	1006,250
1698+0.000	7,54	1006,299					-6,60	-2,0%	1007,192	1007,060	1006,162	0,90	780.157,965	8.184.155,677	1006,928	-2,0%	6,60						6,87	1006,746
1699+0.000	7,54	1006,827					-6,60	-2,0%	1007,719	1007,587	1006,886	0,70	780.176,738	8.184.148,781	1007,455	-2,0%	6,60						6,67	1007,523
1700+0.000	6,91	1007,778					-6,60	-2,0%	1008,247	1008,115	1007,639	0,48	780.195,512	8.184.141,884	1007,983	-2,0%	6,60						6,75	1008,133
1701+0.000	6,67	1008,581					-6,60	-2,0%	1008,774	1008,642	1008,432	0,21	780.214,285	8.184.134,988	1008,510	-2,0%	6,60						7,00	1008,911
1702+0.000	6,74	1009,174					-6,60	-2,0%	1009,302	1009,170	1009,133	0,04	780.233,058	8.184.128,092	1009,038	-2,0%	6,60						7,72	1010,157
1703+0.000	6,70	1009,666					-6,60	-2,0%	1009,830	1009,698	1009,810	-0,11	780.251,832	8.184.121,196	1009,566	-2,0%	6,60						7,23	1010,197
1704+0.000	6,70	1010,189					-6,60	-2,0%	1010,357	1010,225	1010,297	-0,07	780.270,605	8.184.114,300	1010,093	-2,0%	6,60						7,36	1010,857
1705+0.000	6,61	1010,616					-6,60	-2,0%	1010,885	1010,753	1010,592	0,16	780.289,379	8.184.107,404	1010,621	-2,0%	6,60						7,25	1011,267
1706+0.000	6,89	1010,956					-6,60	-2,0%	1011,412	1011,280	1011,190	0,09	780.308,152	8.184.100,508	1011,148	-2,0%	6,60						6,95	1011,493
1707+0.000	7,25	1011,242					-6,60	-2,0%	1011,940	1011,808	1011,472	0,34	780.326,926	8.184.093,612	1011,676	-2,0%	6,60						6,61	1011,682
1708+0.000	7,71	1011,461					-6,60	-2,0%	1012,467	1012,335	1011,570	0,76	780.345,699	8.184.086,716	1012,203	-2,0%	6,60						7,21	1011,797
1709+0.000	7,90	1011,867					-6,60	-2,0%	1012,995	1012,863	1012,043	0,82	780.364,473	8.184.079,820	1012,731	-2,0%	6,60						7,38	1012,209
1710+0.000	8,18	1012,204					-6,60	-2,0%	1013,522	1013,390	1012,356	1,03	780.383,246	8.184.072,923	1013,258	-2,0%	6,60						7,51	1012,652
1711+0.000	7,61	1013,115					-6,60	-2,0%	1014,050	1013,918	1012,892	1,03	780.402,020	8.184.066,027	1013,786	-2,0%	6,60						7,65	1013,087
1712+0.000	7,95	1013,412					-6,60	-2,0%	1014,577	1014,445	1013,017	1,43	780.420,793	8.184.059,131	1014,313	-2,0%	6,60						7,55	1013,677
1713+0.000	8,17	1013,797					-6,60	-2,0%	1015,105	1014,973	1013,945	1,03	780.439,567	8.184.052,235	1014,841	-2,0%	6,60						7,44	1014,283
1714+0.000	8,19	1014,311					-6,60	-2,0%	1015,632	1015,500	1014,239	1,26	780.458,340	8.184.045,339	1015,368	-2,0%	6,60						7,38	1014,848
1715+0.000	8,24	1014,812					-6,60	-2,0%	1016,170	1016,038	1014,654	1,38	780.477,114	8.184.038,443	1015,906	-2,0%	6,60						7,32	1015,427
1716+0.000	8,22	1015,409					-6,60	-2,0%	1016,753	1016,621	1015,228	1,39	780.495,887	8.184.031,547	1016,489	-2,0%	6,60						7,72	1015,744
1717+0.000	8,11	1016,114					-6,60	-2,0%	1017,385	1017,253	1016,169	1,08	780.514,661	8.184.024,651	1017,121	-2,0%	6,60						7,40	1016,585
1718+0.000	8,15	1016,768					-6,60	-2,0%	1018,066	1017,934	1016,662	1,27	780.533,434	8.184.017,755	1017,802	-2,0%	6,60						6,96	1017,565
1719+0.000	8,27	1017,421					-6,60	-2,0%	1018,797	1018,665	1017,872	0,79	780.552,208	8.184.010,858	1018,533	-2,0%	6,60						6,86	1018,359
1720+0.000	8,48	1018,049					-6,60	-2,0%	1019,567	1019,435	1018,115	1,32	780.570,981	8.184.003,962	1019,303	-2,0%	6,60						7,98	1018,381
1721+0.000	8,41	1018,869					-6,60	-2,0%	1020,340	1020,208	1019,080	1,13	780.589,755	8.183.997,066	1020,076	-2,0%	6,60						7,83	1019,259



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9															
1722+0.000	8,59	1019,524					-6,60	-2,0%	1021,113	1020,981	1019,616	1,37	780.608,528	8.183.990,170	1020,849	-2,0%	6,60						7,87	1020,003
1723+0.000	8,32	1020,479					-6,60	-2,0%	1021,887	1021,755	1020,602	1,15	780.627,302	8.183.983,274	1021,623	-2,0%	6,60						6,97	1021,373
1724+0.000	7,33	1021,908					-6,60	-2,0%	1022,660	1022,528	1022,144	0,38	780.646,075	8.183.976,378	1022,396	-2,0%	6,60						6,99	1022,134
1725+0.000	7,00	1023,569					-6,60	-2,0%	1023,433	1023,301	1023,388	-0,09	780.664,849	8.183.969,482	1023,169	-2,0%	6,60						6,86	1022,997
1726+0.000	7,82	1025,165					-6,60	-2,0%	1024,207	1024,075	1025,082	-1,01	780.683,622	8.183.962,586	1023,943	-2,0%	6,60						7,63	1024,976
1727+0.000	8,01	1026,121					-6,60	-2,0%	1024,980	1024,848	1025,863	-1,02	780.702,396	8.183.955,690	1024,716	-2,0%	6,60						7,73	1025,846
1728+0.000	7,70	1026,588					-6,60	-2,0%	1025,753	1025,621	1026,140	-0,52	780.721,169	8.183.948,794	1025,489	-2,0%	6,60						7,40	1026,285
1729+0.000	7,51	1027,174					-6,60	-2,0%	1026,526	1026,394	1026,490	-0,10	780.739,943	8.183.941,897	1026,262	-2,0%	6,60						6,83	1026,493
1730+0.000	7,09	1027,522					-6,60	-2,0%	1027,300	1027,168	1027,221	-0,05	780.758,716	8.183.935,001	1027,036	-2,0%	6,60						6,98	1027,420
1731+0.000	7,04	1028,248					-6,60	-2,0%	1028,073	1027,941	1028,104	-0,16	780.777,490	8.183.928,105	1027,809	-2,0%	6,60						7,78	1028,990
1732+0.000	6,88	1028,393					-6,60	-2,0%	1028,846	1028,714	1028,669	0,04	780.796,263	8.183.921,209	1028,582	-2,0%	6,60						6,82	1028,803
1733+0.000	7,21	1028,947					-6,60	-2,0%	1029,618	1029,486	1028,947	0,54	780.815,037	8.183.914,313	1029,354	-2,0%	6,60						6,95	1029,119
1734+0.000	7,37	1029,575					-6,60	-2,0%	1030,353	1030,221	1029,428	0,79	780.833,810	8.183.907,417	1030,089	-2,0%	6,60						7,27	1029,644
1735+0.000	7,53	1030,154					-6,60	-2,0%	1031,039	1030,907	1029,922	0,98	780.852,583	8.183.900,521	1030,775	-2,0%	6,60						7,44	1030,218
1736+0.000	7,59	1030,751					-6,60	-2,0%	1031,676	1031,544	1030,500	1,04	780.871,357	8.183.893,625	1031,412	-2,0%	6,60						7,79	1030,619
1737+0.000	7,60	1031,330					-6,60	-2,0%	1032,262	1032,130	1031,097	1,03	780.890,130	8.183.886,729	1031,998	-2,0%	6,60						7,57	1031,354
1738+0.000	7,54	1031,908					-6,60	-2,0%	1032,799	1032,667	1031,637	1,03	780.908,904	8.183.879,832	1032,535	-2,0%	6,60						7,47	1031,956
1739+0.000	7,30	1032,555					-6,60	-2,0%	1033,287	1033,155	1032,307	0,85	780.927,677	8.183.872,936	1033,023	-2,0%	6,60						7,31	1032,550
1740+0.000	7,32	1033,016					-6,60	-2,0%	1033,762	1033,630	1032,808	0,82	780.946,451	8.183.866,040	1033,498	-2,0%	6,60						7,29	1033,036
1741+0.000	7,23	1033,555					-6,60	-2,0%	1034,237	1034,105	1033,409	0,70	780.965,224	8.183.859,144	1033,973	-2,0%	6,60						6,93	1033,754
1742+0.000	6,86	1034,277					-6,60	-2,0%	1034,712	1034,580	1034,238	0,34	780.983,998	8.183.852,248	1034,448	-2,0%	6,60						7,21	1035,058
1743+0.000	6,66	1034,983					-6,60	-2,0%	1035,187	1035,055	1034,982	0,07	781.002,771	8.183.845,352	1034,923	-2,0%	6,60						7,61	1035,934
1744+0.000	6,73	1035,526					-6,60	-2,0%	1035,662	1035,530	1035,366	0,16	781.021,545	8.183.838,456	1035,398	-2,0%	6,60						7,05	1035,851
1745+0.000	6,80	1035,740					-6,60	-2,0%	1036,136	1036,004	1035,675	0,33	781.040,318	8.183.831,560	1035,872	-2,0%	6,60						6,62	1035,888
1746+0.000	6,70	1036,284					-6,60	-2,0%	1036,611	1036,479	1036,079	0,40	781.059,092	8.183.824,664	1036,347	-2,0%	6,60						6,64	1036,319
1747+0.000	6,71	1036,749					-6,60	-2,0%	1037,086	1036,954	1036,650	0,30	781.077,865	8.183.817,768	1036,822	-2,0%	6,60						6,72	1036,939
1748+0.000	6,89	1037,104					-6,60	-2,0%	1037,561	1037,429	1036,998	0,43	781.096,639	8.183.810,871	1037,297	-2,0%	6,60						6,62	1037,321
1749+0.000	6,68	1037,850					-6,60	-2,0%	1038,036	1037,904	1037,541	0,36	781.115,412	8.183.803,975	1037,772	-2,0%	6,60						6,73	1037,898
1750+0.000	6,63	1038,273					-6,60	-2,0%	1038,511	1038,379	1038,100	0,28	781.134,186	8.183.797,079	1038,247	-2,0%	6,60						6,81	1038,457
1751+0.000	6,66	1038,783					-6,60	-2,0%	1038,985	1038,853	1038,628	0,23	781.152,959	8.183.790,183	1038,721	-2,0%	6,60						6,90	1039,017
1752+0.000	6,68	1039,274					-6,60	-2,0%	1039,460	1039,328	1039,158	0,17	781.171,733	8.183.783,287	1039,196	-2,0%	6,60						6,88	1039,475
1753+0.000	6,69	1039,761					-6,60	-2,0%	1039,935	1039,803	1039,734	0,07	781.190,506	8.183.776,391	1039,671	-2,0%	6,60						6,96	1040,032
1754+0.000	6,91	1040,453					-6,60	-2,0%	1040,410	1040,278	1040,204	0,07	781.209,280	8.183.769,495	1040,146	-2,0%	6,60						6,96	1040,502
1755+0.000	6,84	1040,861					-6,60	-2,0%	1040,885	1040,753	1040,802	-0,05	781.228,053	8.183.762,599	1040,621	-2,0%	6,60						6,95	1040,974
1756+0.000	7,16	1041,655					-6,60	-2,0%	1041,360	1041,228	1041,142	0,09	781.246,827	8.183.755,703	1041,096	-2,0%	6,60						6,98	1041,477
1757+0.000	7,68	1042,653					-6,60	-2,0%	1041,835	1041,703	1041,525	0,18	781.265,600	8.183.748,806	1041,571	-2,0%	6,60						7,00	1041,968
1758+0.000	6,83	1042,277					-6,60	-2,0%	1042,309	1042,177	1042,159	0,02	781.284,374	8.183.741,910	1042,045	-2,0%	6,60						6,96	1042,410
1759+0.000	6,83	1042,748					-6,60	-2,0%	1042,784	1042,652	1042,555	0,10	781.303,147	8.183.735,014	1042,520	-2,0%	6,60						6,92	1042,844
1760+0.000	6,60	1042,998					-6,60	-2,0%	1043,259	1043,127	1043,200	-0,07	781.321,921	8.183.728,118	1042,995	-2,0%	6,60						7,47	1043,868
1761+0.000	6,62	1043,491					-6,60	-2,0%	1043,734	1043,602	1044,071	-0,47	781.340,694	8.183.721,222	1043,470	-2,0%	6,60						6,77	1043,640
1762+0.000	6,75	1044,090					-6,60	-2,0%	1044,209	1044,077	1044,144	-0,07	781.359,468	8.183.714,326	1043,945	-2,0%	6,60						6,90	1044,240



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1763+0.000	6,64	1044,457					-6,60	-2,0%	1044,684	1044,552	1044,374	0,18	781.378,241	8.183.707,430	1044,420	-2,0%	6,60						6,76	1044,575
1764+0.000	6,70	1044,994					-6,60	-2,0%	1045,158	1045,026	1044,747	0,28	781.397,015	8.183.700,534	1044,894	-2,0%	6,60						6,70	1044,990
1765+0.000	6,70	1045,466					-6,60	-2,0%	1045,633	1045,501	1045,098	0,40	781.415,788	8.183.693,638	1045,369	-2,0%	6,60						6,73	1045,500
1766+0.000	6,61	1045,851					-6,60	-2,0%	1046,108	1045,976	1045,708	0,27	781.434,562	8.183.686,742	1045,844	-2,0%	6,60						6,67	1045,915
1767+0.000	6,68	1046,265					-6,60	-2,0%	1046,583	1046,451	1046,100	0,35	781.453,335	8.183.679,845	1046,319	-2,0%	6,60						6,71	1046,427
1768+0.000	6,71	1046,721					-6,60	-2,0%	1047,058	1046,926	1046,571	0,36	781.472,108	8.183.672,949	1046,794	-2,0%	6,60						6,71	1046,908
1769+0.000	6,61	1047,264					-6,60	-2,0%	1047,533	1047,401	1047,085	0,32	781.490,882	8.183.666,053	1047,269	-2,0%	6,60						6,78	1047,450
1770+0.000	6,67	1047,695					-6,60	-2,0%	1048,008	1047,876	1047,455	0,42	781.509,655	8.183.659,157	1047,744	-2,0%	6,60						6,66	1047,802
1771+0.000	6,64	1048,192					-6,60	-2,0%	1048,482	1048,350	1048,063	0,29	781.528,429	8.183.652,261	1048,218	-2,0%	6,60						6,65	1048,270
1772+0.000	7,25	1049,343					-6,60	-2,0%	1048,957	1048,825	1048,250	0,58	781.547,202	8.183.645,365	1048,693	-2,0%	6,60						6,62	1048,682
1773+0.000	6,78	1049,052					-6,60	-2,0%	1049,432	1049,300	1048,826	0,47	781.565,976	8.183.638,469	1049,168	-2,0%	6,60						6,74	1049,072
1774+0.000	6,93	1049,423					-6,60	-2,0%	1049,907	1049,775	1049,360	0,42	781.584,749	8.183.631,573	1049,643	-2,0%	6,60						6,95	1049,413
1775+0.000	6,79	1049,990					-6,60	-2,0%	1050,382	1050,250	1049,575	0,67	781.603,523	8.183.624,677	1050,118	-2,0%	6,60						6,88	1049,929
1776+0.000	7,05	1050,290					-6,60	-2,0%	1050,857	1050,725	1050,003	0,72	781.622,296	8.183.617,780	1050,593	-2,0%	6,60						7,12	1050,249
1777+0.000	7,07	1050,753					-6,60	-2,0%	1051,331	1051,199	1050,255	0,94	781.641,070	8.183.610,884	1051,067	-2,0%	6,60						7,03	1050,784
1778+0.000	7,26	1051,104					-6,60	-2,0%	1051,806	1051,674	1050,836	0,84	781.659,843	8.183.603,988	1051,542	-2,0%	6,60						7,12	1051,196
1779+0.000	7,17	1051,615					-6,60	-2,0%	1052,257	1052,125	1051,301	0,82	781.678,617	8.183.597,092	1051,993	-2,0%	6,60						7,13	1051,638
1780+0.000	7,33	1051,924					-6,60	-2,0%	1052,675	1052,543	1051,633	0,91	781.697,390	8.183.590,196	1052,411	-2,0%	6,60						7,23	1051,989
1781+0.000	7,21	1052,386					-6,60	-2,0%	1053,059	1052,927	1052,128	0,80	781.716,164	8.183.583,300	1052,795	-2,0%	6,60						7,24	1052,370
1782+0.000	6,99	1052,887					-6,60	-2,0%	1053,410	1053,278	1052,602	0,68	781.734,937	8.183.576,404	1053,146	-2,0%	6,60						7,10	1052,813
1783+0.000	6,96	1053,222					-6,60	-2,0%	1053,727	1053,595	1052,900	0,69	781.753,711	8.183.569,508	1053,463	-2,0%	6,60						6,97	1053,217
1784+0.000	6,84	1053,608					-6,60	-2,0%	1054,033	1053,901	1053,273	0,63	781.772,484	8.183.562,612	1053,769	-2,0%	6,60						6,90	1053,567
1785+0.000	7,32	1054,791					-6,60	-2,0%	1054,339	1054,207	1053,635	0,57	781.791,258	8.183.555,716	1054,075	-2,0%	6,60						6,79	1053,948
1786+0.000	6,63	1054,414					-6,60	-2,0%	1054,646	1054,514	1054,101	0,41	781.810,031	8.183.548,819	1054,382	-2,0%	6,60						6,79	1054,256
1787+0.000	6,87	1054,508					-6,60	-2,0%	1054,952	1054,820	1054,457	0,36	781.828,805	8.183.541,923	1054,688	-2,0%	6,60						6,72	1054,607
1788+0.000	6,89	1054,803					-6,60	-2,0%	1055,258	1055,126	1054,659	0,47	781.847,578	8.183.535,027	1054,994	-2,0%	6,60						6,81	1054,855
1789+0.000	7,02	1055,020					-6,60	-2,0%	1055,564	1055,432	1055,011	0,42	781.866,352	8.183.528,131	1055,300	-2,0%	6,60						6,78	1055,180
1790+0.000	6,98	1055,352					-6,60	-2,0%	1055,870	1055,738	1055,162	0,58	781.885,125	8.183.521,235	1055,606	-2,0%	6,60						6,93	1055,389
1791+0.000	6,90	1055,711					-6,60	-2,0%	1056,177	1056,045	1055,497	0,55	781.903,899	8.183.514,339	1055,913	-2,0%	6,60						6,94	1055,687
1792+0.000	6,82	1056,070					-6,60	-2,0%	1056,483	1056,351	1056,009	0,34	781.922,672	8.183.507,443	1056,219	-2,0%	6,60						6,93	1056,000
1793+0.000	6,70	1056,457					-6,60	-2,0%	1056,789	1056,657	1056,025	0,63	781.941,446	8.183.500,547	1056,525	-2,0%	6,60						6,95	1056,295
1794+0.000	6,97	1056,638					-6,60	-1,2%	1057,040	1056,963	1056,457	0,51	781.960,219	8.183.493,651	1056,831	-2,0%	6,60						7,02	1056,552
1795+0.000	6,62	1057,367					-6,60	1,6%	1057,161	1057,269	1056,647	0,62	781.978,993	8.183.486,754	1057,137	-2,0%	6,60						6,97	1056,888
1796+0.000	7,75	1057,087					-6,60	4,2%	1057,299	1057,576	1057,092	0,48	781.997,662	8.183.479,583	1057,299	-4,2%	6,60						6,84	1057,142
1797+0.000	7,98	1057,237					-6,60	4,2%	1057,605	1057,882	1057,238	0,64	782.016,105	8.183.471,849	1057,605	-4,2%	6,60						6,87	1057,423
1798+0.000	8,02	1057,516					-6,60	4,2%	1057,911	1058,188	1057,577	0,61	782.034,306	8.183.463,560	1057,911	-4,2%	6,60						6,93	1057,688
1799+0.000	8,13	1057,750					-6,60	4,2%	1058,217	1058,494	1058,046	0,45	782.052,247	8.183.454,724	1058,217	-4,2%	6,60						7,10	1057,881
1800+0.000	8,01	1058,135					-6,60	4,2%	1058,523	1058,800	1058,266	0,53	782.069,912	8.183.445,348	1058,523	-4,2%	6,60						7,26	1058,084
1801+0.000	7,77	1058,596					-6,60	4,2%	1058,820	1059,097	1058,476	0,62	782.087,285	8.183.435,441	1058,820	-4,2%	6,60						7,41	1058,281
1802+0.000	7,81	1058,821					-6,60	4,2%	1059,077	1059,354	1058,619	0,74	782.104,350	8.183.425,012	1059,077	-4,2%	6,60						7,51	1058,473
1803+0.000	7,87	1058,997					-6,60	4,2%	1059,291	1059,568	1058,802	0,77	782.121,091	8.183.414,071	1059,291	-4,2%	6,60						7,61	1058,616



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1804+0.000	7,93	1059,129					-6,60	4,2%	1059,464	1059,741	1058,941	0,80	782.137,493	8.183.402,627	1059,464	-4,2%	6,60						7,64	1058,771
1805+0.000	7,79	1059,355					-6,60	4,2%	1059,594	1059,871	1059,045	0,83	782.153,540	8.183.390,692	1059,594	-4,2%	6,60						7,76	1058,820
1806+0.000	7,88	1059,383					-6,60	4,2%	1059,682	1059,959	1059,149	0,81	782.169,219	8.183.378,277	1059,682	-4,2%	6,60						7,78	1058,897
1807+0.000	7,93	1059,400					-6,60	4,2%	1059,729	1060,006	1059,191	0,82	782.184,514	8.183.365,391	1059,729	-4,2%	6,60						7,75	1058,964
1808+0.000	8,02	1059,341					-6,60	4,2%	1059,733	1060,010	1059,095	0,91	782.199,412	8.183.352,049	1059,733	-4,2%	6,60						7,80	1058,930
1809+0.000	8,00	1059,313					-6,60	4,2%	1059,695	1059,972	1059,128	0,84	782.213,899	8.183.338,261	1059,695	-4,2%	6,60						7,57	1059,046
1810+0.000	7,81	1059,363					-6,60	4,2%	1059,615	1059,892	1059,197	0,70	782.227,961	8.183.324,041	1059,615	-4,2%	6,60						7,41	1059,078
1811+0.000	7,54	1059,432					-6,60	4,2%	1059,502	1059,779	1058,890	0,89	782.241,586	8.183.309,401	1059,502	-4,2%	6,60						7,29	1059,042
1812+0.000	7,46	1059,370					-6,60	4,2%	1059,387	1059,664	1058,842	0,82	782.254,761	8.183.294,354	1059,387	-4,2%	6,60						7,29	1058,926
1813+0.000	7,18	1059,441					-6,60	4,2%	1059,273	1059,550	1058,864	0,69	782.267,474	8.183.278,916	1059,273	-4,2%	6,60						7,40	1058,740
1814+0.000	7,15	1059,189					-6,60	1,9%	1059,312	1059,435	1058,717	0,72	782.279,714	8.183.263,100	1059,303	-2,0%	6,60						7,60	1058,637
1815+0.000	6,81	1059,121					-6,60	-0,9%	1059,382	1059,320	1058,676	0,64	782.291,682	8.183.247,076	1059,188	-2,0%	6,60						7,62	1058,507
1816+0.000	6,66	1059,031					-6,60	-2,0%	1059,338	1059,206	1058,544	0,66	782.303,649	8.183.231,051	1059,074	-2,0%	6,60						7,57	1058,424
1817+0.000	6,74	1058,866					-6,60	-2,0%	1059,223	1059,091	1058,397	0,69	782.315,616	8.183.215,027	1058,959	-2,0%	6,60						7,73	1058,206
1818+0.000	6,68	1058,788					-6,60	-2,0%	1059,108	1058,976	1058,325	0,65	782.327,583	8.183.199,002	1058,844	-2,0%	6,60						7,46	1058,271
1819+0.000	6,72	1058,649					-6,60	-2,0%	1058,994	1058,862	1058,334	0,53	782.339,551	8.183.182,977	1058,730	-2,0%	6,60						7,57	1058,087
1820+0.000	6,74	1058,524					-6,60	-2,0%	1058,879	1058,747	1058,008	0,74	782.351,518	8.183.166,953	1058,615	-2,0%	6,60						7,33	1058,129
1821+0.000	6,62	1058,487					-6,60	-2,0%	1058,764	1058,632	1058,064	0,57	782.363,485	8.183.150,928	1058,500	-2,0%	6,60						6,77	1058,385
1822+0.000	6,63	1058,412					-6,60	-2,0%	1058,650	1058,518	1057,936	0,58	782.375,452	8.183.134,903	1058,386	-2,0%	6,60						7,14	1058,023
1823+0.000	6,69	1058,360					-6,60	-2,0%	1058,535	1058,403	1057,892	0,51	782.387,419	8.183.118,879	1058,271	-2,0%	6,60						7,46	1057,698
1824+0.000	6,78	1058,336					-6,60	-2,0%	1058,420	1058,288	1057,887	0,40	782.399,386	8.183.102,854	1058,156	-2,0%	6,60						7,02	1057,874
1825+0.000	6,83	1058,287					-6,60	-2,0%	1058,319	1058,187	1057,785	0,40	782.411,353	8.183.086,830	1058,055	-2,0%	6,60						7,22	1057,643
1826+0.000	6,81	1058,201					-6,60	-2,0%	1058,252	1058,120	1057,747	0,37	782.423,320	8.183.070,805	1057,988	-2,0%	6,60						7,17	1057,610
1827+0.000	6,82	1058,178					-6,60	-2,0%	1058,221	1058,089	1057,762	0,33	782.435,287	8.183.054,780	1057,957	-2,0%	6,60						6,90	1057,758
1828+0.000	6,77	1058,134					-6,60	-2,0%	1058,225	1058,093	1057,727	0,37	782.447,254	8.183.038,756	1057,961	-2,0%	6,60						7,14	1057,599
1829+0.000	6,75	1058,151					-6,60	-2,0%	1058,265	1058,133	1057,713	0,42	782.459,222	8.183.022,731	1058,001	-2,0%	6,60						7,28	1057,551
1830+0.000	6,62	1058,100					-6,60	-2,0%	1058,340	1058,208	1057,701	0,51	782.471,189	8.183.006,707	1058,076	-2,0%	6,60						7,16	1057,702
1831+0.000	6,62	1058,160					-6,60	-2,0%	1058,438	1058,306	1057,670	0,64	782.483,156	8.182.990,682	1058,174	-2,0%	6,60						7,05	1057,874
1832+0.000	6,70	1058,203					-6,60	-2,0%	1058,536	1058,404	1057,747	0,66	782.495,123	8.182.974,657	1058,272	-2,0%	6,60						7,63	1057,588
1833+0.000	6,94	1058,144					-6,60	-2,0%	1058,634	1058,502	1057,806	0,70	782.507,090	8.182.958,633	1058,370	-2,0%	6,60						7,50	1057,769
1834+0.000	6,91	1058,260					-6,60	-2,0%	1058,732	1058,600	1057,831	0,77	782.519,057	8.182.942,608	1058,468	-2,0%	6,60						7,47	1057,890
1835+0.000	7,05	1058,267					-6,60	-2,0%	1058,830	1058,698	1057,977	0,72	782.531,024	8.182.926,583	1058,566	-2,0%	6,60						7,12	1058,220
1836+0.000	7,22	1058,253					-6,60	-2,0%	1058,928	1058,796	1057,883	0,91	782.542,991	8.182.910,559	1058,664	-2,0%	6,60						7,29	1058,208
1837+0.000	7,37	1058,252					-6,60	-2,0%	1059,026	1058,894	1058,012	0,88	782.554,958	8.182.894,534	1058,762	-2,0%	6,60						7,29	1058,299
1838+0.000	7,33	1058,373					-6,60	-2,0%	1059,124	1058,992	1057,962	1,03	782.566,926	8.182.878,510	1058,860	-2,0%	6,60						7,55	1058,228
1839+0.000	7,42	1058,410					-6,60	-2,0%	1059,222	1059,090	1058,055	1,03	782.578,893	8.182.862,485	1058,958	-2,0%	6,60						7,44	1058,396
1840+0.000	7,36	1058,553					-6,60	-2,0%	1059,320	1059,188	1058,225	0,96	782.590,860	8.182.846,460	1059,056	-2,0%	6,60						7,87	1058,207
1841+0.000	7,40	1058,621					-6,60	-2,0%	1059,418	1059,286	1058,334	0,95	782.602,827	8.182.830,436	1059,154	-2,0%	6,60						7,77	1058,376
1842+0.000	7,52	1058,642					-6,60	-2,0%	1059,516	1059,384	1058,518	0,87	782.614,794	8.182.814,411	1059,252	-2,0%	6,60						7,25	1058,818
1843+0.000	7,39	1058,825					-6,60	-2,0%	1059,614	1059,482	1058,550	0,93	782.626,761	8.182.798,387	1059,350	-2,0%	6,60						7,67	1058,634
1844+0.000	7,39	1058,925					-6,60	-2,0%	1059,712	1059,580	1058,652	0,93	782.638,728	8.182.782,362	1059,448	-2,0%	6,60						7,78	1058,662



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1845+0.000	7,34	1059,053					-6,60	-2,0%	1059,810	1059,678	1058,744	0,93	782.650,695	8.182.766,337	1059,546	-2,0%	6,60						7,78	1058,762
1846+0.000	7,40	1059,108					-6,60	-2,0%	1059,908	1059,776	1058,735	1,04	782.662,662	8.182.750,313	1059,644	-2,0%	6,60						6,67	1059,595
1847+0.000	7,40	1059,208					-6,60	-2,0%	1060,006	1059,874	1058,886	0,99	782.674,629	8.182.734,288	1059,742	-2,0%	6,60						7,63	1059,056
1848+0.000	7,38	1059,323					-6,60	-2,0%	1060,104	1059,972	1059,046	0,93	782.686,597	8.182.718,263	1059,840	-2,0%	6,60						7,14	1059,481
1849+0.000	7,46	1059,363					-6,60	-2,0%	1060,202	1060,070	1058,987	1,08	782.698,564	8.182.702,239	1059,938	-2,0%	6,60						7,70	1059,206
1850+0.000	7,55	1059,401					-6,60	-2,0%	1060,300	1060,168	1059,168	1,00	782.710,531	8.182.686,214	1060,036	-2,0%	6,60						7,35	1059,535
1851+0.000	7,50	1059,532					-6,60	-2,0%	1060,398	1060,266	1059,324	0,94	782.722,498	8.182.670,190	1060,134	-2,0%	6,60						7,34	1059,640
1852+0.000	7,68	1059,502					-6,60	-2,0%	1060,488	1060,356	1059,238	1,12	782.734,465	8.182.654,165	1060,224	-2,0%	6,60						7,86	1059,382
1853+0.000	7,71	1059,506					-6,60	-2,0%	1060,512	1060,380	1059,333	1,05	782.746,432	8.182.638,140	1060,248	-2,0%	6,60						7,46	1059,677
1854+0.000	7,78	1059,415					-6,60	-2,0%	1060,463	1060,331	1059,253	1,08	782.758,399	8.182.622,116	1060,199	-2,0%	6,60						8,06	1059,225
1855+0.000	7,79	1059,285					-6,60	-2,0%	1060,341	1060,209	1059,136	1,07	782.770,366	8.182.606,091	1060,077	-2,0%	6,60						7,67	1059,363
1856+0.000	7,77	1059,104					-6,60	-2,0%	1060,144	1060,012	1058,904	1,11	782.782,333	8.182.590,066	1059,880	-2,0%	6,60						6,87	1059,698
1857+0.000	7,69	1058,882					-6,60	-2,0%	1059,874	1059,742	1058,598	1,14	782.794,301	8.182.574,042	1059,610	-2,0%	6,60						6,72	1059,733
1858+0.000	7,82	1058,456					-6,60	-2,0%	1059,530	1059,398	1058,216	1,18	782.806,268	8.182.558,017	1059,266	-2,0%	6,60						7,34	1058,771
1859+0.000	7,86	1058,007					-6,60	-2,0%	1059,113	1058,981	1057,804	1,18	782.818,235	8.182.541,993	1058,849	-2,0%	6,60						6,96	1058,608
1860+0.000	7,80	1057,561					-6,60	-2,0%	1058,621	1058,489	1057,441	1,05	782.830,202	8.182.525,968	1058,357	-2,0%	6,60						6,68	1058,306
1861+0.000	7,61	1057,121					-6,60	-2,0%	1058,056	1057,924	1056,774	1,15	782.842,169	8.182.509,943	1057,792	-2,0%	6,60						7,34	1057,298
1862+0.000	7,62	1056,484					-6,60	-2,0%	1057,426	1057,294	1056,287	1,01	782.854,136	8.182.493,919	1057,162	-2,0%	6,60						6,78	1057,044
1863+0.000	7,47	1055,943					-6,60	-2,0%	1056,787	1056,655	1056,057	0,60	782.866,103	8.182.477,894	1056,523	-2,0%	6,60						6,95	1056,876
1864+0.000	7,26	1055,444					-6,60	-2,0%	1056,148	1056,016	1055,182	0,83	782.878,070	8.182.461,870	1055,884	-2,0%	6,60						6,86	1056,144
1865+0.000	7,15	1054,880					-6,60	-2,0%	1055,508	1055,376	1054,732	0,64	782.890,037	8.182.445,845	1055,244	-2,0%	6,60						6,83	1055,476
1866+0.000	6,86	1054,431					-6,60	-2,0%	1054,869	1054,737	1054,053	0,68	782.902,004	8.182.429,820	1054,605	-2,0%	6,60						6,93	1054,939
1867+0.000	6,87	1053,783					-6,60	-2,0%	1054,230	1054,098	1054,392	-0,29	782.913,972	8.182.413,796	1053,966	-2,0%	6,60						7,54	1054,907
1868+0.000	6,98	1053,073					-6,60	-2,0%	1053,590	1053,458	1053,303	0,15	782.925,939	8.182.397,771	1053,326	-2,0%	6,60						7,26	1053,988
1869+0.000	6,64	1052,896					-6,60	0,6%	1052,779	1052,819	1052,650	0,17	782.937,906	8.182.381,746	1052,687	-2,0%	6,60						7,30	1053,386
1870+0.000	7,92	1051,525					-6,60	3,4%	1051,953	1052,179	1051,791	0,39	782.949,782	8.182.365,655	1051,953	-3,4%	6,60						7,39	1052,742
1871+0.000	8,38	1050,607					-6,60	3,8%	1051,289	1051,540	1050,544	1,00	782.961,273	8.182.349,286	1051,289	-3,8%	6,60						6,67	1051,356
1872+0.000	8,92	1049,606					-6,60	3,8%	1050,650	1050,901	1049,554	1,35	782.972,352	8.182.332,636	1050,650	-3,8%	6,60						7,22	1050,239
1873+0.000	9,20	1048,779					-6,60	3,8%	1050,010	1050,261	1049,495	0,77	782.983,012	8.182.315,714	1050,010	-3,8%	6,60						7,05	1049,714
1874+0.000	9,56	1047,899					-6,60	3,8%	1049,371	1049,622	1047,501	2,12	782.993,244	8.182.298,530	1049,371	-3,8%	6,60						8,19	1048,313
1875+0.000	9,96	1047,030					-6,60	3,8%	1048,767	1049,018	1046,916	2,10	783.003,045	8.182.281,097	1048,767	-3,8%	6,60						8,49	1047,511
1876+0.000	10,49	1046,153					-6,60	3,8%	1048,247	1048,498	1045,871	2,63	783.012,406	8.182.263,423	1048,247	-3,8%	6,60						9,24	1046,491
1877+0.000	11,52	1045,031					-6,60	3,8%	1047,811	1048,062	1044,794	3,27	783.021,323	8.182.245,522	1047,811	-3,8%	6,60						10,60	1045,144
1878+0.000	12,17	1044,164					-6,60	2,5%	1047,543	1047,711	1043,989	3,72	783.029,789	8.182.227,402	1047,543	-2,5%	6,60						11,87	1044,034
1879+0.000	12,22	1043,683					-6,60	-0,3%	1047,463	1047,445	1043,683	3,76	783.037,893	8.182.209,118	1047,313	-2,0%	6,60						12,56	1043,341
1880+0.000	12,07	1043,484					-6,60	-2,0%	1047,395	1047,263	1043,554	3,71	783.045,968	8.182.190,821	1047,131	-2,0%	6,60						12,68	1043,076
1881+0.000	11,23	1043,948					-6,60	-2,0%	1047,298	1047,166	1043,672	3,49	783.054,042	8.182.172,523	1047,034	-2,0%	6,60						12,21	1043,295
1882+0.000	11,07	1044,039					-6,60	-2,0%	1047,285	1047,153	1044,059	3,09	783.062,117	8.182.154,225	1047,021	-2,0%	6,60						10,69	1044,297
1883+0.000	10,21	1044,688					-6,60	-2,0%	1047,356	1047,224	1044,440	2,78	783.070,192	8.182.135,928	1047,092	-2,0%	6,60						9,98	1044,841
1884+0.000	9,05	1045,616					-6,60	-2,0%	1047,513	1047,381	1045,039	2,34	783.078,266	8.182.117,630	1047,249	-2,0%	6,60						8,91	1045,708
1885+0.000	8,37	1046,309					-6,60	-2,0%	1047,753	1047,621	1045,847	1,77	783.086,341	8.182.099,333	1047,489	-2,0%	6,60						8,34	1046,332



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
1886+0.000	7,61	1047,139					-6,60	-2,0%	1048,079	1047,947	1046,609	1,34	783.094,416	8.182.081,035	1047,815	-2,0%	6,60						7,84	1046,989
1887+0.000	7,11	1047,849					-6,60	-2,0%	1048,453	1048,321	1047,301	1,02	783.102,490	8.182.062,738	1048,189	-2,0%	6,60						7,55	1047,555
1888+0.000	6,70	1048,667					-6,60	-2,0%	1048,829	1048,697	1048,084	0,61	783.110,565	8.182.044,440	1048,565	-2,0%	6,60						6,84	1048,404
1889+0.000	7,04	1049,380					-6,60	-2,0%	1049,204	1049,072	1048,768	0,30	783.118,639	8.182.026,143	1048,940	-2,0%	6,60						6,88	1049,215
1890+0.000	7,55	1050,260					-6,60	-2,0%	1049,579	1049,447	1049,588	-0,14	783.126,714	8.182.007,845	1049,315	-2,0%	6,60						7,20	1049,913
1891+0.000	7,90	1050,991					-6,60	-2,0%	1049,954	1049,822	1050,173	-0,35	783.134,789	8.181.989,547	1049,690	-2,0%	6,60						6,95	1050,039
1892+0.000	7,79	1051,253					-6,60	-2,0%	1050,329	1050,197	1050,666	-0,47	783.142,863	8.181.971,250	1050,065	-2,0%	6,60						7,43	1050,893
1893+0.000	7,64	1051,479					-6,60	-2,0%	1050,704	1050,572	1050,800	-0,23	783.150,938	8.181.952,952	1050,440	-2,0%	6,60						6,91	1050,751
1894+0.000	7,46	1051,676					-6,60	-2,0%	1051,079	1050,947	1051,130	-0,18	783.159,012	8.181.934,655	1050,815	-2,0%	6,60						7,08	1051,293
1895+0.000	6,94	1051,531					-6,60	-2,0%	1051,454	1051,322	1050,682	0,64	783.167,087	8.181.916,357	1051,190	-2,0%	6,60						7,47	1050,607
1896+0.000	6,99	1051,277					-6,60	-2,0%	1051,798	1051,666	1050,714	0,95	783.175,162	8.181.898,060	1051,534	-2,0%	6,60						8,02	1050,586
1897+0.000	7,59	1051,163					-6,60	-2,0%	1052,088	1051,956	1050,276	1,68	783.183,236	8.181.879,762	1051,824	-2,0%	6,60						9,25	1050,057
1898+0.000	8,12	1051,049					-6,60	-2,0%	1052,325	1052,193	1049,971	2,22	783.191,311	8.181.861,464	1052,061	-2,0%	6,60						10,52	1049,451
1899+0.000	8,72	1050,833					-6,60	-2,0%	1052,509	1052,377	1049,835	2,54	783.199,385	8.181.843,167	1052,245	-2,0%	6,60						11,17	1049,198
1900+0.000	8,89	1050,849					-6,60	-2,0%	1052,639	1052,507	1050,089	2,42	783.207,460	8.181.824,869	1052,375	-2,0%	6,60						10,84	1049,551
1901+0.000	9,05	1050,847					-6,60	-2,0%	1052,746	1052,614	1050,027	2,59	783.215,535	8.181.806,572	1052,482	-2,0%	6,60						10,62	1049,805
1902+0.000	9,20	1050,859					-6,60	-2,0%	1052,853	1052,721	1050,357	2,36	783.223,609	8.181.788,274	1052,589	-2,0%	6,60						10,50	1049,988
1903+0.000	8,94	1051,137					-6,60	-2,0%	1052,960	1052,828	1050,384	2,44	783.231,684	8.181.769,977	1052,696	-2,0%	6,60						10,53	1050,074
1904+0.000	8,68	1051,415					-6,60	-2,0%	1053,067	1052,935	1051,010	1,92	783.239,758	8.181.751,679	1052,803	-2,0%	6,60						9,39	1050,941
1905+0.000	8,23	1051,826					-6,60	-2,0%	1053,174	1053,042	1051,243	1,80	783.247,833	8.181.733,382	1052,910	-2,0%	6,60						8,92	1051,361
1906+0.000	7,59	1052,356					-6,60	-2,0%	1053,282	1053,150	1052,027	1,12	783.255,908	8.181.715,084	1053,018	-2,0%	6,60						7,23	1052,598
1907+0.000	7,49	1052,529					-6,60	-2,0%	1053,389	1053,257	1052,304	0,95	783.263,982	8.181.696,786	1053,125	-2,0%	6,60						7,28	1052,669
1908+0.000	7,35	1052,730					-6,60	-2,0%	1053,496	1053,364	1052,971	0,39	783.272,057	8.181.678,489	1053,232	-2,0%	6,60						6,67	1053,305
1909+0.000	7,53	1052,720					-6,60	-2,0%	1053,603	1053,471	1052,860	0,61	783.280,131	8.181.660,191	1053,339	-2,0%	6,60						6,83	1053,568
1910+0.000	7,39	1052,917					-6,60	-2,0%	1053,710	1053,578	1052,952	0,63	783.288,206	8.181.641,894	1053,446	-2,0%	6,60						6,85	1053,279
1911+0.000	7,72	1052,805					-6,60	-2,0%	1053,817	1053,685	1052,932	0,75	783.296,281	8.181.623,596	1053,553	-2,0%	6,60						6,92	1053,339
1912+0.000	8,17	1052,614					-6,60	-2,0%	1053,924	1053,792	1052,923	0,87	783.304,355	8.181.605,299	1053,660	-2,0%	6,60						6,69	1053,748
1913+0.000	8,62	1052,423					-6,60	-2,0%	1054,031	1053,899	1052,510	1,39	783.312,430	8.181.587,001	1053,767	-2,0%	6,60						7,72	1053,021
1914+0.000	9,13	1052,185					-6,60	-2,0%	1054,139	1054,007	1052,611	1,40	783.320,504	8.181.568,703	1053,875	-2,0%	6,60						7,63	1053,189
1915+0.000	9,44	1052,086					-6,60	-2,0%	1054,246	1054,114	1052,498	1,62	783.328,579	8.181.550,406	1053,982	-2,0%	6,60						7,10	1053,646
1916+0.000	10,00	1051,820					-6,60	-2,0%	1054,353	1054,221	1052,127	2,09	783.336,654	8.181.532,108	1054,089	-2,0%	6,60						8,14	1053,060
1917+0.000	10,40	1051,663					-6,60	-2,0%	1054,460	1054,328	1052,217	2,11	783.344,728	8.181.513,811	1054,196	-2,0%	6,60						8,47	1052,947
1918+0.000	10,66	1051,597					-6,60	-2,0%	1054,567	1054,435	1051,838	2,60	783.352,803	8.181.495,513	1054,303	-2,0%	6,60						9,27	1052,523
1919+0.000	10,87	1051,564					-6,60	-2,0%	1054,674	1054,542	1052,003	2,54	783.360,877	8.181.477,216	1054,410	-2,0%	6,60						8,84	1052,914
1920+0.000	10,97	1051,601					-6,60	-2,0%	1054,781	1054,649	1052,020	2,63	783.368,952	8.181.458,918	1054,517	-2,0%	6,60						9,15	1052,818
1921+0.000	11,14	1051,598					-6,60	-2,0%	1054,888	1054,756	1051,990	2,77	783.377,027	8.181.440,621	1054,624	-2,0%	6,60						9,70	1052,559
1922+0.000	11,19	1051,672					-6,60	-2,0%	1054,996	1054,864	1052,001	2,86	783.385,101	8.181.422,323	1054,732	-2,0%	6,60						9,73	1052,645
1923+0.000	11,18	1051,786					-6,60	-2,0%	1055,103	1054,971	1052,163	2,81	783.393,176	8.181.404,025	1054,839	-2,0%	6,60						9,91	1052,629
1924+0.000	11,03	1051,996					-6,60	-2,0%	1055,210	1055,078	1052,216	2,86	783.401,250	8.181.385,728	1054,946	-2,0%	6,60						9,55	1052,982
1925+0.000	10,74	1052,290					-6,60	-2,0%	1055,317	1055,185	1052,397	2,79	783.409,325	8.181.367,430	1055,053	-2,0%	6,60						9,77	1052,943
1926+0.000	10,75	1052,395					-6,60	-2,0%	1055,424	1055,292	1052,705	2,59	783.417,400	8.181.349,133	1055,160	-2,0%	6,60						9,64	1053,137



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1927+0.000	10,46	1052,693					-6,60	-2,0%	1055,531	1055,399	1052,942	2,46	783.425,474	8.181.330,835	1055,267	-2,0%	6,60						9,08	1053,613
1928+0.000	10,26	1052,932					-6,60	-2,0%	1055,638	1055,506	1053,075	2,43	783.433,549	8.181.312,538	1055,374	-2,0%	6,60						8,68	1053,986
1929+0.000	9,87	1053,301					-6,60	-2,0%	1055,745	1055,613	1053,641	1,97	783.441,623	8.181.294,240	1055,481	-2,0%	6,60						8,52	1054,199
1930+0.000	9,36	1053,750					-6,60	-2,0%	1055,853	1055,721	1053,659	2,06	783.449,698	8.181.275,942	1055,589	-2,0%	6,60						8,24	1054,499
1931+0.000	8,93	1054,141					-6,60	-2,0%	1055,960	1055,828	1054,112	1,72	783.457,773	8.181.257,645	1055,696	-2,0%	6,60						7,59	1055,033
1932+0.000	8,23	1054,743					-6,60	-2,0%	1056,094	1055,962	1054,431	1,53	783.465,847	8.181.239,347	1055,830	-2,0%	6,60						7,69	1055,103
1933+0.000	8,10	1055,038					-6,60	-2,0%	1056,300	1056,168	1055,073	1,09	783.473,922	8.181.221,050	1056,036	-2,0%	6,60						7,25	1056,687
1934+0.000	7,62	1055,633					-6,60	-2,0%	1056,577	1056,445	1055,528	0,92	783.481,996	8.181.202,752	1056,313	-2,0%	6,60						6,72	1056,429
1935+0.000	7,38	1056,145					-6,60	-2,0%	1056,927	1056,795	1056,181	0,61	783.490,071	8.181.184,455	1056,663	-2,0%	6,60						7,16	1057,221
1936+0.000	7,20	1056,687					-6,60	-2,0%	1057,348	1057,216	1056,377	0,84	783.498,146	8.181.166,157	1057,084	-2,0%	6,60						6,98	1057,466
1937+0.000	7,13	1057,196					-6,60	-2,0%	1057,815	1057,683	1057,160	0,52	783.506,220	8.181.147,860	1057,551	-2,0%	6,60						6,83	1057,780
1938+0.000	7,18	1057,630					-6,60	-2,0%	1058,282	1058,150	1057,586	0,56	783.514,295	8.181.129,562	1058,018	-2,0%	6,60						6,95	1058,370
1939+0.000	6,77	1058,374					-6,60	-2,0%	1058,749	1058,617	1058,201	0,42	783.522,369	8.181.111,264	1058,485	-2,0%	6,60						6,90	1058,789
1940+0.000	6,78	1058,835					-6,60	-2,0%	1059,216	1059,084	1059,121	-0,04	783.530,444	8.181.092,967	1058,952	-2,0%	6,60						7,52	1059,869
1941+0.000	6,79	1059,611					-6,60	-2,0%	1059,683	1059,551	1059,291	0,26	783.538,519	8.181.074,669	1059,419	-2,0%	6,60						7,47	1060,285
1942+0.000	6,62	1059,870					-6,60	-2,0%	1060,150	1060,018	1059,860	0,16	783.546,593	8.181.056,372	1059,886	-2,0%	6,60						7,36	1060,647
1943+0.000	6,72	1060,468					-6,60	-2,0%	1060,617	1060,485	1060,219	0,27	783.554,668	8.181.038,074	1060,353	-2,0%	6,60						6,98	1060,737
1944+0.000	6,61	1060,834					-6,60	-2,0%	1061,084	1060,952	1060,771	0,18	783.562,742	8.181.019,777	1060,946	-0,1%	6,60						7,39	1061,740
1945+0.000	6,75	1061,389					-6,60	-2,7%	1061,598	1061,419	1061,212	0,21	783.570,853	8.181.001,495	1061,598	2,7%	6,60						6,61	1061,605
1946+0.000	6,86	1061,868					-6,60	-4,2%	1062,163	1061,886	1061,562	0,32	783.579,392	8.180.983,410	1062,163	4,2%	6,60						6,76	1062,055
1947+0.000	6,99	1062,462					-6,60	-4,2%	1062,630	1062,353	1062,109	0,24	783.588,459	8.180.965,584	1062,630	4,2%	6,60						6,78	1062,806
1948+0.000	7,00	1062,942					-6,60	-4,2%	1063,097	1062,820	1062,619	0,20	783.598,046	8.180.948,033	1063,097	4,2%	6,60						7,07	1062,785
1949+0.000	6,99	1063,399					-6,60	-4,2%	1063,564	1063,287	1063,236	0,05	783.608,145	8.180.930,771	1063,564	4,2%	6,60						7,40	1063,031
1950+0.000	7,02	1063,892					-6,60	-4,2%	1064,031	1063,754	1063,778	-0,02	783.618,748	8.180.913,813	1064,031	4,2%	6,60						7,56	1063,390
1951+0.000	6,89	1064,229					-6,60	-4,2%	1064,498	1064,221	1064,235	-0,01	783.629,844	8.180.897,175	1064,498	4,2%	6,60						7,35	1064,000
1952+0.000	6,81	1064,619					-6,60	-4,2%	1064,965	1064,688	1064,642	0,05	783.641,425	8.180.880,870	1064,965	4,2%	6,60						7,10	1064,634
1953+0.000	6,81	1065,085					-6,60	-4,2%	1065,433	1065,156	1065,119	0,04	783.653,480	8.180.864,912	1065,433	4,2%	6,60						7,00	1065,163
1954+0.000	6,77	1065,518					-6,60	-4,2%	1065,900	1065,623	1065,552	0,07	783.666,000	8.180.849,316	1065,900	4,2%	6,60						6,68	1065,847
1955+0.000	6,86	1066,068					-6,60	-4,2%	1066,367	1066,090	1066,156	-0,07	783.678,973	8.180.834,095	1066,367	4,2%	6,60						6,66	1066,329
1956+0.000	6,84	1066,521					-6,60	-4,2%	1066,834	1066,557	1066,482	0,08	783.692,388	8.180.819,263	1066,834	4,2%	6,60						7,15	1066,465
1957+0.000	6,77	1066,912					-6,60	-4,2%	1067,301	1067,024	1066,931	0,09	783.706,233	8.180.804,831	1067,301	4,2%	6,60						7,10	1066,969
1958+0.000	6,90	1067,512					-6,60	-4,2%	1067,768	1067,491	1067,428	0,06	783.720,496	8.180.790,812	1067,768	4,2%	6,60						7,12	1067,419
1959+0.000	6,76	1067,840					-6,60	-4,2%	1068,235	1067,958	1067,870	0,09	783.735,166	8.180.777,219	1068,235	4,2%	6,60						7,14	1067,873
1960+0.000	6,68	1068,228					-6,60	-4,2%	1068,702	1068,425	1068,246	0,18	783.750,229	8.180.764,063	1068,702	4,2%	6,60						7,33	1068,213
1961+0.000	6,66	1068,674					-6,60	-4,2%	1069,169	1068,892	1068,652	0,24	783.765,672	8.180.751,356	1069,169	4,2%	6,60						7,66	1068,464
1962+0.000	6,78	1068,951					-6,60	-4,2%	1069,627	1069,350	1068,922	0,43	783.781,483	8.180.739,108	1069,627	4,2%	6,60						8,22	1068,547
1963+0.000	6,85	1069,338					-6,60	-4,2%	1070,057	1069,780	1069,312	0,47	783.797,646	8.180.727,331	1070,057	4,2%	6,60						8,17	1069,012
1964+0.000	6,83	1069,750					-6,60	-4,2%	1070,458	1070,181	1069,658	0,52	783.814,150	8.180.716,034	1070,458	4,2%	6,60						7,94	1069,564
1965+0.000	7,48	1069,806					-6,60	-2,4%	1070,715	1070,554	1069,801	0,75	783.830,978	8.180.705,227	1070,715	2,4%	6,60						8,15	1069,683
1966+0.000	7,55	1070,136					-6,60	-2,0%	1071,031	1070,899	1070,035	0,86	783.848,036	8.180.694,786	1070,875	-0,4%	6,60						7,67	1070,165
1967+0.000	7,67	1070,369					-6,60	-2,0%	1071,347	1071,215	1070,268	0,95	783.865,105	8.180.684,363	1071,083	-2,0%	6,60						7,79	1070,293



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
1968+0.000	7,80	1070,570					-6,60	-2,0%	1071,635	1071,503	1070,626	0,88	783.882,175	8.180.673,940	1071,371	-2,0%	6,60						8,18	1070,317
1969+0.000	7,87	1070,781					-6,60	-2,0%	1071,894	1071,762	1070,849	0,91	783.899,244	8.180.663,518	1071,630	-2,0%	6,60						8,18	1070,578
1970+0.000	7,85	1071,031					-6,60	-2,0%	1072,126	1071,994	1071,036	0,96	783.916,313	8.180.653,095	1071,862	-2,0%	6,60						8,29	1070,735
1971+0.000	7,90	1071,199					-6,60	-2,0%	1072,328	1072,196	1071,179	1,02	783.933,383	8.180.642,672	1072,064	-2,0%	6,60						8,06	1071,091
1972+0.000	7,96	1071,335					-6,60	-2,0%	1072,502	1072,370	1071,306	1,06	783.950,452	8.180.632,249	1072,238	-2,0%	6,60						8,07	1071,255
1973+0.000	7,87	1071,535					-6,60	-2,0%	1072,648	1072,516	1071,519	1,00	783.967,521	8.180.621,826	1072,384	-2,0%	6,60						8,26	1071,278
1974+0.000	7,91	1071,626					-6,60	-2,0%	1072,766	1072,634	1071,644	0,99	783.984,591	8.180.611,403	1072,502	-2,0%	6,60						8,17	1071,455
1975+0.000	7,83	1071,769					-6,60	-2,0%	1072,855	1072,723	1071,762	0,96	784.001,660	8.180.600,980	1072,591	-2,0%	6,60						7,98	1071,671
1976+0.000	7,90	1071,786					-6,60	-2,0%	1072,915	1072,783	1071,838	0,94	784.018,729	8.180.590,557	1072,651	-2,0%	6,60						7,68	1071,933
1977+0.000	7,74	1071,926					-6,60	-2,0%	1072,948	1072,816	1071,959	0,86	784.035,799	8.180.580,134	1072,684	-2,0%	6,60						7,54	1072,054
1978+0.000	7,67	1071,973					-6,60	-2,0%	1072,951	1072,819	1071,841	0,98	784.052,868	8.180.569,711	1072,687	-2,0%	6,60						7,76	1071,917
1979+0.000	7,36	1072,156					-6,60	-2,0%	1072,927	1072,795	1072,038	0,76	784.069,938	8.180.559,288	1072,663	-2,0%	6,60						7,68	1071,944
1980+0.000	7,34	1072,117					-6,60	-2,0%	1072,874	1072,742	1072,014	0,73	784.087,007	8.180.548,866	1072,610	-2,0%	6,60						7,47	1072,027
1981+0.000	7,35	1072,031					-6,60	-2,0%	1072,792	1072,660	1071,950	0,71	784.104,076	8.180.538,443	1072,528	-2,0%	6,60						7,60	1071,863
1982+0.000	7,30	1071,963					-6,60	-2,0%	1072,692	1072,560	1071,873	0,69	784.121,146	8.180.528,020	1072,428	-2,0%	6,60						7,32	1071,950
1983+0.000	7,34	1071,834					-6,60	-2,0%	1072,591	1072,459	1071,680	0,78	784.138,215	8.180.517,597	1072,327	-2,0%	6,60						7,70	1071,592
1984+0.000	7,25	1071,794					-6,60	-2,0%	1072,490	1072,358	1071,672	0,69	784.155,284	8.180.507,174	1072,226	-2,0%	6,60						7,50	1071,627
1985+0.000	7,30	1071,661					-6,60	-2,0%	1072,389	1072,257	1071,520	0,74	784.172,354	8.180.496,751	1072,125	-2,0%	6,60						7,61	1071,455
1986+0.000	7,29	1071,565					-6,60	-2,0%	1072,288	1072,156	1071,386	0,77	784.189,423	8.180.486,328	1072,024	-2,0%	6,60						7,40	1071,491
1987+0.000	7,25	1071,488					-6,60	-2,0%	1072,187	1072,055	1071,362	0,69	784.206,492	8.180.475,905	1071,923	-2,0%	6,60						7,82	1071,111
1988+0.000	7,29	1071,361					-6,60	-2,0%	1072,086	1071,954	1071,383	0,57	784.223,562	8.180.465,482	1071,822	-2,0%	6,60						7,58	1071,169
1989+0.000	7,40	1071,186					-6,60	-2,0%	1071,984	1071,852	1071,201	0,65	784.240,631	8.180.455,059	1071,720	-2,0%	6,60						7,71	1070,980
1990+0.000	7,45	1071,054					-6,60	-2,0%	1071,883	1071,751	1071,182	0,57	784.257,700	8.180.444,636	1071,619	-2,0%	6,60						7,61	1070,945
1991+0.000	7,47	1070,938					-6,60	-2,0%	1071,782	1071,650	1070,980	0,67	784.274,770	8.180.434,214	1071,518	-2,0%	6,60						7,74	1070,756
1992+0.000	7,58	1070,766					-6,60	-2,0%	1071,681	1071,549	1070,722	0,83	784.291,839	8.180.423,791	1071,417	-2,0%	6,60						7,95	1070,515
1993+0.000	7,68	1070,597					-6,60	-2,0%	1071,580	1071,448	1070,594	0,85	784.308,909	8.180.413,368	1071,316	-2,0%	6,60						7,92	1070,434
1994+0.000	7,80	1070,417					-6,60	-2,0%	1071,479	1071,347	1070,414	0,93	784.325,978	8.180.402,945	1071,215	-2,0%	6,60						8,00	1070,285
1995+0.000	7,89	1070,255					-6,60	-2,0%	1071,378	1071,246	1070,251	1,00	784.343,047	8.180.392,522	1071,114	-2,0%	6,60						7,75	1070,348
1996+0.000	7,99	1070,086					-6,60	-2,0%	1071,277	1071,145	1070,040	1,11	784.360,117	8.180.382,099	1071,013	-2,0%	6,60						7,99	1070,088
1997+0.000	7,99	1069,985					-6,60	-2,0%	1071,176	1071,044	1069,868	1,18	784.377,186	8.180.371,676	1070,912	-2,0%	6,60						8,37	1069,734
1998+0.000	8,12	1069,798					-6,60	-2,0%	1071,075	1070,943	1069,756	1,19	784.394,255	8.180.361,253	1070,811	-2,0%	6,60						8,04	1069,851
1999+0.000	8,11	1069,706					-6,60	-2,0%	1070,974	1070,842	1069,762	1,08	784.411,325	8.180.350,830	1070,710	-2,0%	6,60						8,15	1069,678
2000+0.000	8,13	1069,591					-6,60	-2,0%	1070,873	1070,741	1069,500	1,24	784.428,394	8.180.340,407	1070,609	-2,0%	6,60						8,56	1069,303
2001+0.000	8,20	1069,439					-6,60	-2,0%	1070,772	1070,640	1069,447	1,19	784.445,463	8.180.329,984	1070,508	-2,0%	6,60						8,34	1069,347
2002+0.000	8,31	1069,267					-6,60	-2,0%	1070,671	1070,539	1069,346	1,19	784.462,533	8.180.319,562	1070,407	-2,0%	6,60						8,37	1069,229
2003+0.000	8,42	1069,096					-6,60	-2,0%	1070,570	1070,438	1069,102	1,34	784.479,602	8.180.309,139	1070,306	-2,0%	6,60						8,57	1068,990
2004+0.000	8,62	1068,858					-6,60	-2,0%	1070,469	1070,337	1069,017	1,32	784.496,671	8.180.298,716	1070,205	-2,0%	6,60						8,53	1068,917
2005+0.000	8,61	1068,761					-6,60	-2,0%	1070,368	1070,236	1068,836	1,40	784.513,741	8.180.288,293	1070,104	-2,0%	6,60						8,49	1068,846
2006+0.000	8,56	1068,699					-6,60	-2,0%	1070,267	1070,135	1068,674	1,46	784.530,810	8.180.277,870	1070,003	-2,0%	6,60						8,84	1068,508
2007+0.000	8,59	1068,577					-6,60	-2,0%	1070,165	1070,033	1068,673	1,36	784.547,880	8.180.267,447	1069,901	-2,0%	6,60						8,86	1068,392
2008+0.000	8,52	1068,524					-6,60	-2,0%	1070,064	1069,932	1068,576	1,36	784.564,949	8.180.257,024	1069,800	-2,0%	6,60						8,86	1068,296



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2009+0.000	8,44	1068,473					-6,60	-2,0%	1069,963	1069,831	1068,461	1,37	784.582,018	8.180.246,601	1069,699	-2,0%	6,60						8,80	1068,235
2010+0.000	8,50	1068,334					-6,60	-2,0%	1069,862	1069,730	1068,366	1,36	784.599,088	8.180.236,178	1069,598	-2,0%	6,60						8,48	1068,347
2011+0.000	8,45	1068,261					-6,60	-2,0%	1069,761	1069,629	1068,275	1,35	784.616,157	8.180.225,755	1069,497	-2,0%	6,60						8,29	1068,369
2012+0.000	8,50	1068,133					-6,60	-2,0%	1069,660	1069,528	1068,164	1,36	784.633,226	8.180.215,332	1069,396	-2,0%	6,60						8,47	1068,148
2013+0.000	8,43	1068,073					-6,60	-2,0%	1069,559	1069,427	1068,107	1,32	784.650,296	8.180.204,910	1069,295	-2,0%	6,60						8,05	1068,331
2014+0.000	8,40	1067,994					-6,60	-2,0%	1069,458	1069,326	1068,025	1,30	784.667,365	8.180.194,487	1069,194	-2,0%	6,60						8,27	1068,081
2015+0.000	8,29	1067,967					-6,60	-2,0%	1069,360	1069,228	1067,974	1,25	784.684,424	8.180.184,047	1069,096	-2,0%	6,60						8,24	1068,000
2016+0.000	8,33	1067,895					-6,60	-2,0%	1069,312	1069,180	1068,012	1,17	784.701,443	8.180.173,542	1069,048	-2,0%	6,60						8,05	1068,083
2017+0.000	8,36	1067,893					-6,60	-2,0%	1069,333	1069,201	1068,011	1,19	784.718,420	8.180.162,969	1069,069	-2,0%	6,60						8,32	1067,925
2018+0.000	8,61	1067,812					-6,60	-2,0%	1069,418	1069,286	1068,011	1,28	784.735,354	8.180.152,328	1069,154	-2,0%	6,60						8,48	1067,902
2019+0.000	8,99	1067,665					-6,60	-2,0%	1069,520	1069,388	1067,821	1,57	784.752,246	8.180.141,619	1069,256	-2,0%	6,60						8,58	1067,935
2020+0.000	9,27	1067,578					-6,60	-2,0%	1069,622	1069,490	1067,755	1,73	784.769,094	8.180.130,843	1069,358	-2,0%	6,60						8,80	1067,891
2021+0.000	9,45	1067,557					-6,60	-2,0%	1069,724	1069,592	1067,736	1,86	784.785,900	8.180.120,000	1069,460	-2,0%	6,60						9,02	1067,846
2022+0.000	9,65	1067,530					-6,60	-2,0%	1069,826	1069,694	1067,728	1,97	784.802,661	8.180.109,089	1069,562	-2,0%	6,60						9,21	1067,823
2023+0.000	9,95	1067,430					-6,60	-2,0%	1069,928	1069,796	1067,712	2,08	784.819,380	8.180.098,112	1069,664	-2,0%	6,60						9,32	1067,851
2024+0.000	10,26	1067,323					-6,60	-2,0%	1070,030	1069,898	1067,665	2,23	784.836,054	8.180.087,068	1069,766	-2,0%	6,60						9,26	1067,994
2025+0.000	10,41	1067,299					-6,60	-2,0%	1070,106	1069,974	1067,747	2,23	784.852,689	8.180.075,965	1069,842	-2,0%	6,60						9,67	1067,798
2026+0.000	10,44	1067,319					-6,60	-2,0%	1070,141	1070,009	1067,728	2,28	784.869,319	8.180.064,854	1069,877	-2,0%	6,60						9,62	1067,866
2027+0.000	10,56	1067,236					-6,60	-2,0%	1070,136	1070,004	1067,693	2,31	784.885,948	8.180.053,743	1069,872	-2,0%	6,60						9,60	1067,871
2028+0.000	10,48	1067,237					-6,60	-2,0%	1070,090	1069,958	1067,666	2,29	784.902,578	8.180.042,632	1069,826	-2,0%	6,60						9,84	1067,669
2029+0.000	10,58	1067,088					-6,60	-2,0%	1070,002	1069,870	1067,489	2,38	784.919,208	8.180.031,521	1069,738	-2,0%	6,60						9,61	1067,734
2030+0.000	10,28	1067,180					-6,60	-2,0%	1069,900	1069,768	1067,598	2,17	784.935,837	8.180.020,410	1069,636	-2,0%	6,60						9,71	1067,560
2031+0.000	9,81	1067,394					-6,60	-2,0%	1069,797	1069,665	1067,736	1,93	784.952,467	8.180.009,299	1069,533	-2,0%	6,60						9,45	1067,630
2032+0.000	9,60	1067,431					-6,60	-2,0%	1069,694	1069,562	1067,717	1,84	784.969,096	8.179.998,188	1069,430	-2,0%	6,60						9,11	1067,754
2033+0.000	9,06	1067,688					-6,60	-2,0%	1069,591	1069,459	1067,902	1,56	784.985,726	8.179.987,077	1069,327	-2,0%	6,60						8,59	1067,998
2034+0.000	8,71	1067,819					-6,60	-2,0%	1069,488	1069,356	1068,069	1,29	785.002,356	8.179.975,966	1069,224	-2,0%	6,60						8,01	1068,282
2035+0.000	8,50	1067,852					-6,60	-2,0%	1069,385	1069,253	1068,097	1,16	785.018,985	8.179.964,855	1069,121	-2,0%	6,60						7,82	1068,310
2036+0.000	8,16	1067,981					-6,60	-2,0%	1069,286	1069,154	1068,154	1,00	785.035,615	8.179.953,744	1069,022	-2,0%	6,60						7,63	1068,337
2037+0.000	7,74	1068,213					-6,60	-2,0%	1069,240	1069,108	1068,298	0,81	785.052,245	8.179.942,633	1068,976	-2,0%	6,60						7,45	1068,410
2038+0.000	7,59	1068,339					-6,60	-2,0%	1069,263	1069,131	1068,406	0,73	785.068,874	8.179.931,522	1068,999	-2,0%	6,60						7,43	1068,444
2039+0.000	7,59	1068,428					-6,60	-2,0%	1069,351	1069,219	1068,440	0,78	785.085,504	8.179.920,411	1069,087	-2,0%	6,60						7,27	1068,639
2040+0.000	7,55	1068,559					-6,60	-2,0%	1069,455	1069,323	1068,480	0,84	785.102,134	8.179.909,300	1069,191	-2,0%	6,60						7,41	1068,652
2041+0.000	7,45	1068,730					-6,60	-2,0%	1069,559	1069,427	1068,703	0,72	785.118,763	8.179.898,189	1069,295	-2,0%	6,60						7,69	1068,571
2042+0.000	7,32	1068,921					-6,60	-2,0%	1069,663	1069,531	1068,816	0,71	785.135,393	8.179.887,078	1069,399	-2,0%	6,60						6,99	1069,139
2043+0.000	7,31	1069,031					-6,60	-2,0%	1069,767	1069,635	1069,175	0,46	785.152,023	8.179.875,967	1069,503	-2,0%	6,60						7,13	1069,151
2044+0.000	7,24	1069,181					-6,60	-2,0%	1069,871	1069,739	1069,187	0,55	785.168,652	8.179.864,856	1069,607	-2,0%	6,60						7,59	1068,948
2045+0.000	7,21	1069,307					-6,60	-2,0%	1069,976	1069,844	1069,295	0,55	785.185,282	8.179.853,745	1069,712	-2,0%	6,60						7,24	1069,286
2046+0.000	7,18	1069,430					-6,60	-2,0%	1070,080	1069,948	1069,427	0,52	785.201,912	8.179.842,634	1069,816	-2,0%	6,60						7,46	1069,239
2047+0.000	7,22	1069,505					-6,60	-2,0%	1070,184	1070,052	1069,337	0,71	785.218,541	8.179.831,523	1069,920	-2,0%	6,60						7,43	1069,363
2048+0.000	7,11	1069,681					-6,60	-2,0%	1070,288	1070,156	1069,674	0,48	785.235,171	8.179.820,412	1070,024	-2,0%	6,60						7,35	1069,525
2049+0.000	7,09	1069,805					-6,60	-2,0%	1070,392	1070,260	1069,663	0,60	785.251,801	8.179.809,301	1070,128	-2,0%	6,60						7,37	1069,612



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2050+0.000	6,97	1069,985					-6,60	-2,0%	1070,496	1070,364	1069,718	0,65	785.268,430	8.179.798,190	1070,232	-2,0%	6,60						7,50	1069,631
2051+0.000	6,91	1070,128					-6,60	-2,0%	1070,600	1070,468	1070,051	0,42	785.285,060	8.179.787,079	1070,336	-2,0%	6,60						7,32	1069,858
2052+0.000	6,93	1070,218					-6,60	-2,0%	1070,704	1070,572	1070,034	0,54	785.301,690	8.179.775,968	1070,440	-2,0%	6,60						7,12	1070,095
2053+0.000	6,99	1070,287					-6,60	-2,0%	1070,808	1070,676	1070,143	0,53	785.318,319	8.179.764,857	1070,544	-2,0%	6,60						6,89	1070,348
2054+0.000	7,05	1070,351					-6,60	-2,0%	1070,912	1070,780	1070,088	0,69	785.334,949	8.179.753,746	1070,648	-2,0%	6,60						7,13	1070,298
2055+0.000	6,95	1070,520					-6,60	-2,0%	1071,016	1070,884	1070,362	0,52	785.351,579	8.179.742,635	1070,752	-2,0%	6,60						7,16	1070,380
2056+0.000	6,98	1070,601					-6,60	-2,0%	1071,120	1070,988	1070,403	0,59	785.368,208	8.179.731,524	1070,856	-2,0%	6,60						7,12	1070,511
2057+0.000	7,03	1070,677					-6,60	-2,0%	1071,224	1071,092	1070,687	0,41	785.384,838	8.179.720,413	1070,960	-2,0%	6,60						7,26	1070,522
2058+0.000	7,02	1070,787					-6,60	-2,0%	1071,328	1071,196	1070,586	0,61	785.401,467	8.179.709,302	1071,064	-2,0%	6,60						7,13	1070,710
2059+0.000	7,08	1070,845					-6,60	-2,0%	1071,432	1071,300	1070,829	0,47	785.418,097	8.179.698,191	1071,168	-2,0%	6,60						7,35	1070,669
2060+0.000	7,03	1070,984					-6,60	-2,0%	1071,536	1071,404	1070,952	0,45	785.434,727	8.179.687,080	1071,272	-2,0%	6,60						7,47	1070,690
2061+0.000	7,01	1071,106					-6,60	-2,0%	1071,640	1071,508	1071,066	0,44	785.451,356	8.179.675,969	1071,376	-2,0%	6,60						7,34	1070,882
2062+0.000	7,08	1071,161					-6,60	-2,0%	1071,744	1071,612	1071,195	0,42	785.467,986	8.179.664,858	1071,480	-2,0%	6,60						7,40	1070,946
2063+0.000	7,07	1071,274					-6,60	-2,0%	1071,848	1071,716	1071,211	0,50	785.484,616	8.179.653,747	1071,584	-2,0%	6,60						7,56	1070,943
2064+0.000	7,29	1071,228					-6,60	-2,0%	1071,952	1071,820	1071,247	0,57	785.501,245	8.179.642,636	1071,688	-2,0%	6,60						7,56	1071,047
2065+0.000	7,46	1071,221					-6,60	-2,0%	1072,056	1071,924	1071,015	0,91	785.517,875	8.179.631,525	1071,792	-2,0%	6,60						7,33	1071,305
2066+0.000	7,57	1071,248					-6,60	-2,0%	1072,160	1072,028	1071,088	0,94	785.534,505	8.179.620,413	1071,896	-2,0%	6,60						7,78	1071,111
2067+0.000	7,75	1071,236					-6,60	-2,0%	1072,264	1072,132	1071,173	0,96	785.551,134	8.179.609,302	1072,000	-2,0%	6,60						7,72	1071,256
2068+0.000	7,85	1071,273					-6,60	-2,0%	1072,368	1072,236	1071,188	1,05	785.567,764	8.179.598,191	1072,104	-2,0%	6,60						7,86	1071,262
2069+0.000	8,01	1071,266					-6,60	-2,0%	1072,472	1072,340	1071,235	1,11	785.584,394	8.179.587,080	1072,208	-2,0%	6,60						7,97	1071,298
2070+0.000	8,20	1071,248					-6,60	-2,0%	1072,576	1072,444	1071,257	1,19	785.601,023	8.179.575,969	1072,312	-2,0%	6,60						8,24	1071,222
2071+0.000	8,25	1071,314					-6,60	-2,0%	1072,680	1072,548	1071,561	0,99	785.617,653	8.179.564,858	1072,416	-2,0%	6,60						8,24	1071,324
2072+0.000	8,27	1071,408					-6,60	-2,0%	1072,784	1072,652	1071,520	1,13	785.634,283	8.179.553,747	1072,520	-2,0%	6,60						8,26	1071,412
2073+0.000	8,38	1071,438					-6,60	-2,0%	1072,888	1072,757	1071,685	1,07	785.650,912	8.179.542,636	1072,625	-2,0%	6,60						8,46	1071,383
2074+0.000	8,43	1071,511					-6,60	-2,0%	1072,993	1072,861	1071,666	1,20	785.667,542	8.179.531,525	1072,729	-2,0%	6,60						8,30	1071,597
2075+0.000	8,50	1071,563					-6,60	-2,0%	1073,097	1072,965	1071,638	1,33	785.684,172	8.179.520,414	1072,833	-2,0%	6,60						8,68	1071,445
2076+0.000	8,63	1071,580					-6,60	-2,0%	1073,201	1073,069	1071,787	1,28	785.700,801	8.179.509,303	1072,937	-2,0%	6,60						8,32	1071,788
2077+0.000	8,69	1071,650					-6,60	-2,0%	1073,305	1073,173	1071,831	1,34	785.717,431	8.179.498,192	1073,041	-2,0%	6,60						8,82	1071,561
2078+0.000	8,67	1071,767					-6,60	-2,0%	1073,409	1073,277	1071,750	1,53	785.734,061	8.179.487,081	1073,145	-2,0%	6,60						8,66	1071,772
2079+0.000	8,81	1071,778					-6,60	-2,0%	1073,513	1073,381	1071,765	1,62	785.750,690	8.179.475,970	1073,249	-2,0%	6,60						8,48	1071,995
2080+0.000	8,90	1071,817					-6,60	-2,0%	1073,617	1073,485	1071,872	1,61	785.767,320	8.179.464,859	1073,353	-2,0%	6,60						9,05	1071,720
2081+0.000	9,01	1071,836					-6,60	-2,0%	1073,707	1073,575	1071,935	1,64	785.783,950	8.179.453,748	1073,443	-2,0%	6,60						9,01	1071,837
2082+0.000	9,06	1071,828					-6,60	-2,0%	1073,734	1073,602	1071,992	1,61	785.800,579	8.179.442,637	1073,470	-2,0%	6,60						9,15	1071,772
2083+0.000	8,99	1071,836					-6,60	-2,0%	1073,694	1073,562	1072,113	1,45	785.817,209	8.179.431,526	1073,430	-2,0%	6,60						9,18	1071,711
2084+0.000	8,83	1071,849					-6,60	-2,0%	1073,599	1073,467	1071,909	1,56	785.833,839	8.179.420,415	1073,335	-2,0%	6,60						8,82	1071,855
2085+0.000	8,49	1071,976					-6,60	-2,0%	1073,500	1073,368	1072,054	1,31	785.850,468	8.179.409,304	1073,236	-2,0%	6,60						8,64	1071,879
2086+0.000	8,37	1071,957					-6,60	-2,0%	1073,401	1073,269	1072,036	1,23	785.867,098	8.179.398,193	1073,137	-2,0%	6,60						7,88	1072,281
2087+0.000	8,08	1072,054					-6,60	-2,0%	1073,302	1073,170	1072,261	0,91	785.883,727	8.179.387,082	1073,038	-2,0%	6,60						8,10	1072,037
2088+0.000	7,77	1072,167					-6,60	-2,0%	1073,211	1073,079	1072,260	0,82	785.900,357	8.179.375,971	1072,947	-2,0%	6,60						7,92	1072,065
2089+0.000	7,54	1072,288					-6,60	-2,0%	1073,179	1073,047	1072,352	0,69	785.916,987	8.179.364,860	1072,915	-2,0%	6,60						7,64	1072,223
2090+0.000	7,75	1072,184					-6,60	-2,0%	1073,213	1073,081	1072,124	0,96	785.933,616	8.179.353,749	1072,949	-2,0%	6,60						7,72	1072,203



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset				
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl		
	1	2	3	4	5	6	7	8	9																
2091+0.000	7,97	1072,127					-6,60	-2,0%	1073,304	1073,172	1072,138	1,03	785.950,246	8.179.342,638	1073,040	-2,0%	6,60							7,78	1072,255
2092+0.000	7,98	1072,221					-6,60	-2,0%	1073,404	1073,272	1072,271	1,00	785.966,876	8.179.331,527	1073,140	-2,0%	6,60							8,05	1072,177
2093+0.000	8,05	1072,275					-6,60	-2,0%	1073,504	1073,372	1072,315	1,06	785.983,505	8.179.320,416	1073,240	-2,0%	6,60							8,23	1072,151
2094+0.000	8,23	1072,255					-6,60	-2,0%	1073,603	1073,471	1072,308	1,16	786.000,135	8.179.309,305	1073,339	-2,0%	6,60							8,17	1072,293
2095+0.000	8,45	1072,208					-6,60	-2,0%	1073,703	1073,571	1072,299	1,27	786.016,765	8.179.298,194	1073,439	-2,0%	6,60							8,28	1072,318
2096+0.000	8,36	1072,366					-6,60	-2,0%	1073,803	1073,671	1072,358	1,31	786.033,394	8.179.287,083	1073,539	-2,0%	6,60							8,35	1072,370
2097+0.000	8,50	1072,372					-6,60	-2,0%	1073,902	1073,770	1072,405	1,37	786.050,024	8.179.275,972	1073,638	-2,0%	6,60							8,59	1072,310
2098+0.000	8,57	1072,427					-6,60	-2,0%	1074,002	1073,870	1072,479	1,39	786.066,654	8.179.264,861	1073,738	-2,0%	6,60							8,55	1072,438
2099+0.000	8,57	1072,527					-6,60	-2,0%	1074,102	1073,970	1072,611	1,36	786.083,283	8.179.253,750	1073,838	-2,0%	6,60							8,78	1072,384
2100+0.000	8,74	1072,511					-6,60	-2,0%	1074,201	1074,069	1072,561	1,51	786.099,913	8.179.242,639	1073,937	-2,0%	6,60							8,67	1072,555
2101+0.000	8,79	1072,580					-6,60	-2,0%	1074,301	1074,169	1072,554	1,62	786.116,543	8.179.231,528	1074,037	-2,0%	6,60							8,83	1072,549
2102+0.000	8,91	1072,599					-6,60	-2,0%	1074,400	1074,268	1072,625	1,64	786.133,172	8.179.220,417	1074,136	-2,0%	6,60							9,04	1072,507
2103+0.000	8,98	1072,647					-6,60	-2,0%	1074,500	1074,368	1072,670	1,70	786.149,802	8.179.209,306	1074,236	-2,0%	6,60							9,01	1072,628
2104+0.000	9,11	1072,666					-6,60	-2,0%	1074,600	1074,468	1072,651	1,82	786.166,432	8.179.198,195	1074,336	-2,0%	6,60							9,12	1072,653
2105+0.000	9,12	1072,758					-6,60	-2,0%	1074,699	1074,567	1072,740	1,83	786.183,061	8.179.187,084	1074,435	-2,0%	6,60							9,00	1072,838
2106+0.000	9,18	1072,818					-6,60	-2,0%	1074,799	1074,667	1072,716	1,95	786.199,691	8.179.175,973	1074,535	-2,0%	6,60							9,19	1072,810
2107+0.000	9,14	1072,943					-6,60	-2,0%	1074,899	1074,767	1072,886	1,88	786.216,321	8.179.164,862	1074,635	-2,0%	6,60							9,05	1073,000
2108+0.000	9,16	1073,025					-6,60	-2,0%	1074,998	1074,866	1072,882	1,98	786.232,950	8.179.153,751	1074,734	-2,0%	6,60							9,31	1072,925
2109+0.000	9,13	1073,144					-6,60	-2,0%	1075,093	1074,961	1072,946	2,02	786.249,580	8.179.142,640	1074,829	-2,0%	6,60							9,32	1073,015
2110+0.000	9,17	1073,174					-6,60	-2,0%	1075,152	1075,020	1072,983	2,04	786.266,210	8.179.131,529	1074,888	-2,0%	6,60							9,35	1073,055
2111+0.000	9,08	1073,252					-6,60	-2,0%	1075,172	1075,040	1073,082	1,96	786.282,839	8.179.120,418	1074,908	-2,0%	6,60							9,30	1073,107
2112+0.000	8,98	1073,302					-6,60	-2,0%	1075,152	1075,020	1073,051	1,97	786.299,469	8.179.109,307	1074,888	-2,0%	6,60							9,19	1073,159
2113+0.000	8,89	1073,304					-6,60	-2,0%	1075,093	1074,961	1073,220	1,74	786.316,099	8.179.098,196	1074,829	-2,0%	6,60							8,98	1073,245
2114+0.000	8,84	1073,243					-6,60	-2,0%	1075,000	1074,868	1073,170	1,70	786.332,728	8.179.087,085	1074,736	-2,0%	6,60							8,74	1073,307
2115+0.000	8,42	1073,422					-6,60	-2,0%	1074,902	1074,770	1073,357	1,41	786.349,358	8.179.075,974	1074,638	-2,0%	6,60							8,56	1073,330
2116+0.000	8,01	1073,600					-6,60	-2,0%	1074,804	1074,672	1073,489	1,18	786.365,987	8.179.064,863	1074,540	-2,0%	6,60							8,38	1073,355
2117+0.000	7,84	1073,616					-6,60	-2,0%	1074,706	1074,574	1073,415	1,16	786.382,617	8.179.053,752	1074,442	-2,0%	6,60							7,96	1073,535
2118+0.000	7,71	1073,608					-6,60	-2,0%	1074,609	1074,477	1073,589	0,89	786.399,247	8.179.042,641	1074,345	-2,0%	6,60							7,78	1073,560
2119+0.000	7,34	1073,756					-6,60	-2,0%	1074,511	1074,379	1073,732	0,65	786.415,876	8.179.031,530	1074,247	-2,0%	6,60							7,42	1073,703
2120+0.000	7,05	1073,848					-6,60	-2,0%	1074,413	1074,281	1073,724	0,56	786.432,506	8.179.020,419	1074,149	-2,0%	6,60							7,23	1073,727
2121+0.000	6,83	1073,900					-6,60	-2,0%	1074,316	1074,184	1073,885	0,30	786.449,136	8.179.009,308	1074,052	-2,0%	6,60							6,95	1073,821
2122+0.000	6,63	1073,974					-6,60	-2,0%	1074,255	1074,123	1073,878	0,25	786.465,765	8.178.998,197	1073,991	-2,0%	6,60							6,70	1073,923
2123+0.000	6,72	1074,112					-6,60	-2,0%	1074,256	1074,124	1073,979	0,14	786.482,395	8.178.987,086	1073,992	-2,0%	6,60							6,66	1074,048
2124+0.000	6,71	1074,164					-6,60	-2,0%	1074,320	1074,188	1074,036	0,15	786.499,025	8.178.975,975	1074,056	-2,0%	6,60							6,68	1074,005
2125+0.000	6,70	1074,285					-6,60	-2,0%	1074,445	1074,313	1074,222	0,09	786.515,654	8.178.964,864	1074,181	-2,0%	6,60							6,61	1074,196
2126+0.000	6,64	1074,341					-6,60	-2,0%	1074,633	1074,501	1074,250	0,25	786.532,284	8.178.953,753	1074,369	-2,0%	6,60							6,66	1074,329
2127+0.000	6,66	1074,543					-6,60	-2,0%	1074,846	1074,714	1074,497	0,22	786.548,914	8.178.942,642	1074,582	-2,0%	6,60							6,78	1074,461
2128+0.000	6,76	1074,690					-6,60	-2,0%	1075,059	1074,927	1074,536	0,39	786.565,543	8.178.931,531	1074,795	-2,0%	6,60							7,01	1074,520
2129+0.000	6,93	1074,788					-6,60	-2,0%	1075,273	1075,141	1074,661	0,48	786.582,173	8.178.920,420	1075,009	-2,0%	6,60							6,71	1074,936
2130+0.000	7,10	1074,892					-6,60	-2,0%	1075,486	1075,354	1074,794	0,56	786.598,803	8.178.909,309	1075,222	-2,0%	6,60							7,08	1074,905
2131+0.000	7,10	1075,102					-6,60	-2,0%	1075,699	1075,567	1075,044	0,52	786.615,432	8.178.898,198	1075,435	-2,0%	6,60							6,94	1075,209



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset				
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
2132+0.000	7,26	1075,208					-6,60	-2,0%	1075,912	1075,780	1075,139	0,64	786.632,062	8.178.887,087	1075,648	-2,0%	6,60							7,47	1075,069
2133+0.000	7,19	1075,466					-6,60	-2,0%	1076,125	1075,993	1075,248	0,74	786.648,692	8.178.875,976	1075,861	-2,0%	6,60							7,45	1075,297
2134+0.000	7,03	1075,786					-6,60	-2,0%	1076,339	1076,207	1075,480	0,73	786.665,321	8.178.864,865	1076,075	-2,0%	6,60							7,46	1075,501
2135+0.000	7,19	1075,897					-6,60	-2,0%	1076,552	1076,420	1075,702	0,72	786.681,951	8.178.853,754	1076,288	-2,0%	6,60							7,44	1075,729
2136+0.000	7,18	1076,112					-6,60	-2,0%	1076,765	1076,633	1075,814	0,82	786.698,581	8.178.842,643	1076,501	-2,0%	6,60							7,51	1075,894
2137+0.000	7,19	1076,321					-6,60	-2,0%	1076,978	1076,846	1076,001	0,85	786.715,210	8.178.831,532	1076,714	-2,0%	6,60							7,51	1076,107
2138+0.000	7,03	1076,640					-6,60	-2,0%	1077,192	1077,060	1076,022	1,04	786.731,840	8.178.820,421	1076,928	-2,0%	6,60							7,41	1076,388
2139+0.000	7,07	1076,827					-6,60	-2,0%	1077,405	1077,273	1076,259	1,01	786.748,470	8.178.809,310	1077,141	-2,0%	6,60							7,40	1076,605
2140+0.000	6,91	1077,145					-6,60	-2,0%	1077,618	1077,486	1076,432	1,05	786.765,099	8.178.798,199	1077,354	-2,0%	6,60							7,40	1076,822
2141+0.000	7,06	1077,259					-6,60	-2,0%	1077,831	1077,699	1076,693	1,01	786.781,729	8.178.787,088	1077,567	-2,0%	6,60							7,32	1077,086
2142+0.000	7,00	1077,513					-6,60	-2,0%	1078,045	1077,913	1076,878	1,04	786.798,359	8.178.775,977	1077,781	-2,0%	6,60							7,35	1077,283
2143+0.000	6,66	1077,951					-6,60	-2,0%	1078,258	1078,126	1077,176	0,95	786.814,988	8.178.764,866	1077,994	-2,0%	6,60							7,31	1077,522
2144+0.000	6,76	1078,103					-6,60	-2,0%	1078,471	1078,339	1077,458	0,88	786.831,618	8.178.753,755	1078,207	-2,0%	6,60							7,23	1077,787
2145+0.000	6,65	1078,385					-6,60	-2,0%	1078,684	1078,552	1077,709	0,84	786.848,247	8.178.742,644	1078,420	-2,0%	6,60							7,20	1078,021
2146+0.000	6,76	1078,529					-6,60	-2,0%	1078,897	1078,765	1077,988	0,78	786.864,877	8.178.731,533	1078,633	-2,0%	6,60							7,18	1078,249
2147+0.000	6,64	1078,885					-6,60	-2,0%	1079,111	1078,979	1078,410	0,57	786.881,507	8.178.720,422	1078,847	-2,0%	6,60							7,07	1078,533
2148+0.000	6,61	1079,052					-6,60	-2,0%	1079,324	1079,192	1078,431	0,76	786.898,136	8.178.709,311	1079,060	-2,0%	6,60							6,94	1078,834
2149+0.000	6,62	1079,288					-6,60	-2,0%	1079,537	1079,405	1078,825	0,58	786.914,766	8.178.698,200	1079,273	-2,0%	6,60							6,61	1079,268
2150+0.000	6,86	1079,748					-6,60	-2,0%	1079,750	1079,618	1079,099	0,52	786.931,396	8.178.687,089	1079,486	-2,0%	6,60							7,37	1080,260
2151+0.000	6,80	1079,902					-6,60	-2,0%	1079,964	1079,832	1079,303	0,53	786.948,025	8.178.675,978	1079,700	-2,0%	6,60							6,65	1079,750
2152+0.000	6,77	1080,079					-6,60	-2,0%	1080,177	1080,045	1079,570	0,48	786.964,655	8.178.664,867	1079,913	-2,0%	6,60							6,69	1079,855
2153+0.000	6,95	1080,472					-6,60	-2,0%	1080,390	1080,258	1079,931	0,33	786.981,285	8.178.653,756	1080,126	-2,0%	6,60							6,69	1080,067
2154+0.000	6,78	1080,218					-6,60	-2,0%	1080,603	1080,471	1080,106	0,37	786.997,914	8.178.642,645	1080,339	-2,0%	6,60							6,62	1080,326
2155+0.000	6,81	1080,762					-6,60	-2,0%	1080,817	1080,685	1080,465	0,22	787.014,544	8.178.631,533	1080,553	-2,0%	6,60							6,83	1080,785
2156+0.000	6,83	1080,999					-6,60	-2,0%	1081,030	1080,898	1080,684	0,21	787.031,174	8.178.620,422	1080,766	-2,0%	6,60							6,65	1080,734
2157+0.000	6,79	1081,165					-6,60	-2,0%	1081,243	1081,111	1080,924	0,19	787.047,803	8.178.609,311	1080,979	-2,0%	6,60							6,67	1081,052
2158+0.000	6,68	1081,270					-6,60	-2,0%	1081,456	1081,324	1081,003	0,32	787.064,433	8.178.598,200	1081,192	-2,0%	6,60							6,68	1081,140
2159+0.000	6,76	1081,566					-6,60	-2,0%	1081,669	1081,537	1081,132	0,40	787.081,063	8.178.587,089	1081,405	-2,0%	6,60							6,72	1081,323
2160+0.000	6,74	1081,756					-6,60	-2,0%	1081,883	1081,751	1081,255	0,50	787.097,692	8.178.575,978	1081,619	-2,0%	6,60							6,83	1081,468
2161+0.000	6,77	1081,717					-6,60	-2,0%	1082,092	1081,960	1081,345	0,62	787.114,322	8.178.564,867	1081,828	-2,0%	6,60							7,04	1081,536
2162+0.000	6,82	1081,877					-6,60	-2,0%	1082,285	1082,153	1081,523	0,63	787.130,952	8.178.553,756	1082,021	-2,0%	6,60							6,90	1081,824
2163+0.000	6,81	1082,057					-6,60	-2,0%	1082,462	1082,330	1081,677	0,65	787.147,581	8.178.542,645	1082,198	-2,0%	6,60							6,94	1081,970
2164+0.000	6,73	1082,273					-6,60	-2,0%	1082,622	1082,490	1081,754	0,74	787.164,211	8.178.531,534	1082,358	-2,0%	6,60							7,08	1082,039
2165+0.000	7,01	1082,230					-6,60	-2,0%	1082,766	1082,634	1081,898	0,74	787.180,841	8.178.520,423	1082,502	-2,0%	6,60							6,95	1082,267
2166+0.000	7,00	1082,370					-6,60	-2,0%	1082,897	1082,765	1082,014	0,75	787.197,470	8.178.509,312	1082,633	-2,0%	6,60							6,98	1082,382
2167+0.000	7,11	1082,424					-6,60	-2,0%	1083,028	1082,896	1082,155	0,74	787.214,100	8.178.498,201	1082,764	-2,0%	6,60							7,09	1082,437
2168+0.000	6,91	1082,686					-6,60	-2,0%	1083,159	1083,027	1082,372	0,65	787.230,730	8.178.487,090	1082,895	-2,0%	6,60							7,19	1082,503
2169+0.000	7,10	1082,690					-6,60	-2,0%	1083,290	1083,158	1082,513	0,64	787.247,359	8.178.475,979	1083,026	-2,0%	6,60							7,06	1082,722
2170+0.000	6,91	1082,951					-6,60	-2,0%	1083,421	1083,289	1082,651	0,64	787.263,989	8.178.464,868	1083,157	-2,0%	6,60							7,06	1082,849
2171+0.000	6,89	1083,094					-6,60	-2,0%	1083,552	1083,420	1082,647	0,77	787.280,619	8.178.453,757	1083,288	-2,0%	6,60							7,21	1082,880
2172+0.000	6,85	1083,254					-6,60	-2,0%	1083,682	1083,550	1082,939	0,61	787.297,248	8.178.442,646	1083,418	-2,0%	6,60							7,10	1083,083



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2173+0.000	6,79	1083,426					-6,60	-2,0%	1083,813	1083,681	1083,008	0,67	787.313,878	8.178.431,535	1083,549	-2,0%	6,60						7,04	1083,256
2174+0.000	6,96	1083,443					-6,60	-2,0%	1083,944	1083,812	1083,140	0,67	787.330,507	8.178.420,424	1083,680	-2,0%	6,60						7,03	1083,391
2175+0.000	6,95	1083,576					-6,60	-2,0%	1084,075	1083,943	1083,292	0,65	787.347,137	8.178.409,313	1083,811	-2,0%	6,60						7,14	1083,454
2176+0.000	6,82	1083,795					-6,60	-2,0%	1084,206	1084,074	1083,453	0,62	787.363,767	8.178.398,202	1083,942	-2,0%	6,60						7,01	1083,668
2177+0.000	6,81	1083,930					-6,60	-2,0%	1084,337	1084,205	1083,553	0,65	787.380,396	8.178.387,091	1084,073	-2,0%	6,60						7,04	1083,782
2178+0.000	6,89	1084,011					-6,60	-2,0%	1084,467	1084,335	1083,655	0,68	787.397,026	8.178.375,980	1084,203	-2,0%	6,60						7,08	1083,886
2179+0.000	7,21	1083,930					-6,60	-2,0%	1084,598	1084,466	1083,788	0,68	787.413,656	8.178.364,869	1084,334	-2,0%	6,60						7,09	1084,007
2180+0.000	6,95	1084,229					-6,60	-2,0%	1084,729	1084,597	1083,912	0,68	787.430,285	8.178.353,758	1084,465	-2,0%	6,60						7,13	1084,111
2181+0.000	6,99	1084,338					-6,60	-2,0%	1084,860	1084,728	1084,213	0,52	787.446,915	8.178.342,647	1084,596	-2,0%	6,60						7,16	1084,223
2182+0.000	7,22	1084,316					-6,60	-2,0%	1084,991	1084,859	1084,252	0,61	787.463,545	8.178.331,536	1084,727	-2,0%	6,60						7,10	1084,393
2183+0.000	7,00	1084,591					-6,60	-2,0%	1085,122	1084,990	1084,252	0,74	787.480,174	8.178.320,425	1084,858	-2,0%	6,60						7,20	1084,458
2184+0.000	7,36	1084,482					-6,60	-2,0%	1085,253	1085,121	1084,446	0,68	787.496,804	8.178.309,314	1084,989	-2,0%	6,60						7,34	1084,494
2185+0.000	7,44	1084,562					-6,60	-2,0%	1085,383	1085,251	1084,500	0,75	787.513,434	8.178.298,203	1085,119	-2,0%	6,60						7,31	1084,649
2186+0.000	7,31	1084,777					-6,60	-2,0%	1085,514	1085,382	1084,743	0,64	787.530,063	8.178.287,092	1085,250	-2,0%	6,60						7,34	1084,755
2187+0.000	7,14	1085,020					-6,60	-2,0%	1085,645	1085,513	1084,855	0,66	787.546,693	8.178.275,981	1085,381	-2,0%	6,60						7,33	1084,894
2188+0.000	7,25	1085,081					-6,60	-2,0%	1085,776	1085,644	1084,841	0,80	787.563,323	8.178.264,870	1085,512	-2,0%	6,60						7,68	1084,792
2189+0.000	7,32	1085,163					-6,60	-2,0%	1085,907	1085,775	1085,010	0,77	787.579,952	8.178.253,759	1085,643	-2,0%	6,60						7,41	1085,101
2190+0.000	7,36	1085,264					-6,60	-2,0%	1086,038	1085,906	1085,159	0,75	787.596,582	8.178.242,648	1085,774	-2,0%	6,60						7,42	1085,225
2191+0.000	7,36	1085,395					-6,60	-2,0%	1086,168	1086,036	1085,204	0,83	787.613,212	8.178.231,537	1085,904	-2,0%	6,60						7,44	1085,343
2192+0.000	7,37	1085,521					-6,60	-2,0%	1086,299	1086,167	1085,307	0,86	787.629,841	8.178.220,426	1086,035	-2,0%	6,60						7,50	1085,433
2193+0.000	7,26	1085,728					-6,60	-2,0%	1086,430	1086,298	1085,543	0,76	787.646,471	8.178.209,315	1086,166	-2,0%	6,60						7,34	1085,673
2194+0.000	7,37	1085,781					-6,60	-2,0%	1086,561	1086,429	1085,719	0,71	787.663,101	8.178.198,204	1086,297	-2,0%	6,60						7,35	1085,796
2195+0.000	7,47	1085,850					-6,60	-2,0%	1086,692	1086,560	1085,847	0,71	787.679,730	8.178.187,093	1086,428	-2,0%	6,60						7,22	1086,015
2196+0.000	7,23	1086,140					-6,60	-2,0%	1086,823	1086,691	1085,963	0,73	787.696,360	8.178.175,982	1086,559	-2,0%	6,60						7,20	1086,160
2197+0.000	7,21	1086,285					-6,60	-2,0%	1086,953	1086,821	1086,206	0,62	787.712,990	8.178.164,871	1086,689	-2,0%	6,60						7,08	1086,371
2198+0.000	6,91	1086,615					-6,60	-2,0%	1087,084	1086,952	1086,307	0,64	787.729,619	8.178.153,760	1086,820	-2,0%	6,60						6,99	1086,559
2199+0.000	7,16	1086,578					-6,60	-2,0%	1087,215	1087,083	1086,477	0,61	787.746,249	8.178.142,649	1086,951	-2,0%	6,60						7,08	1086,630
2200+0.000	6,92	1086,870					-6,60	-2,0%	1087,346	1087,214	1086,762	0,45	787.762,879	8.178.131,538	1087,082	-2,0%	6,60						7,03	1086,793
2201+0.000	6,98	1086,958					-6,60	-2,0%	1087,477	1087,345	1086,761	0,58	787.779,508	8.178.120,427	1087,213	-2,0%	6,60						7,01	1086,942
2202+0.000	6,99	1087,085					-6,60	-2,0%	1087,608	1087,476	1086,938	0,54	787.796,138	8.178.109,316	1087,344	-2,0%	6,60						7,09	1087,020
2203+0.000	7,05	1087,178					-6,60	-2,0%	1087,738	1087,606	1087,060	0,55	787.812,767	8.178.098,205	1087,474	-2,0%	6,60						7,05	1087,177
2204+0.000	7,17	1087,222					-6,60	-2,0%	1087,869	1087,737	1087,104	0,63	787.829,397	8.178.087,094	1087,605	-2,0%	6,60						7,02	1087,323
2205+0.000	7,03	1087,448					-6,60	-2,0%	1088,000	1087,868	1087,270	0,60	787.846,027	8.178.075,983	1087,736	-2,0%	6,60						7,10	1087,402
2206+0.000	7,07	1087,555					-6,60	-2,0%	1088,131	1087,999	1087,380	0,62	787.862,656	8.178.064,872	1087,867	-2,0%	6,60						7,15	1087,501
2207+0.000	7,19	1087,605					-6,60	-2,0%	1088,262	1088,130	1087,407	0,72	787.879,286	8.178.053,761	1087,998	-2,0%	6,60						7,23	1087,580
2208+0.000	7,36	1087,621					-6,60	-2,0%	1088,393	1088,261	1087,485	0,78	787.895,916	8.178.042,650	1088,129	-2,0%	6,60						7,36	1087,625
2209+0.000	7,45	1087,691					-6,60	-2,0%	1088,523	1088,391	1087,630	0,76	787.912,545	8.178.031,539	1088,259	-2,0%	6,60						7,42	1087,711
2210+0.000	7,44	1087,834					-6,60	-2,0%	1088,654	1088,522	1087,730	0,79	787.929,175	8.178.020,428	1088,390	-2,0%	6,60						7,47	1087,807
2211+0.000	7,38	1088,003					-6,60	-2,0%	1088,785	1088,653	1087,784	0,87	787.945,805	8.178.009,317	1088,521	-2,0%	6,60						7,50	1087,920
2212+0.000	7,55	1088,017					-6,60	-2,0%	1088,916	1088,784	1087,847	0,94	787.962,434	8.177.998,206	1088,652	-2,0%	6,60						7,65	1087,955
2213+0.000	7,62	1088,104					-6,60	-2,0%	1089,047	1088,915	1087,917	1,00	787.979,064	8.177.987,095	1088,783	-2,0%	6,60						7,72	1088,038



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2214+0.000	7,78	1088,127					-6,60	-2,0%	1089,178	1089,046	1088,059	0,99	787.995,694	8.177.975,984	1088,914	-2,0%	6,60						7,88	1088,062
2215+0.000	7,81	1088,239					-6,60	-2,0%	1089,308	1089,176	1088,105	1,07	788.012,323	8.177.964,873	1089,044	-2,0%	6,60						7,93	1088,156
2216+0.000	7,89	1088,318					-6,60	-2,0%	1089,439	1089,307	1088,186	1,12	788.028,953	8.177.953,762	1089,175	-2,0%	6,60						8,05	1088,209
2217+0.000	8,16	1088,266					-6,60	-2,0%	1089,570	1089,438	1088,278	1,16	788.045,583	8.177.942,651	1089,306	-2,0%	6,60						8,20	1088,239
2218+0.000	8,13	1088,414					-6,60	-2,0%	1089,701	1089,569	1088,294	1,27	788.062,212	8.177.931,540	1089,437	-2,0%	6,60						8,31	1088,299
2219+0.000	8,40	1088,371					-6,60	-2,0%	1089,832	1089,700	1088,421	1,28	788.078,842	8.177.920,429	1089,568	-2,0%	6,60						8,42	1088,353
2220+0.000	8,22	1088,616					-6,60	-2,0%	1089,963	1089,831	1088,418	1,41	788.095,472	8.177.909,318	1089,699	-2,0%	6,60						8,51	1088,424
2221+0.000	8,29	1088,702					-6,60	-2,0%	1090,093	1089,961	1088,460	1,50	788.112,101	8.177.898,207	1089,829	-2,0%	6,60						8,70	1088,431
2222+0.000	8,47	1088,716					-6,60	-2,0%	1090,224	1090,092	1088,526	1,57	788.128,731	8.177.887,096	1089,960	-2,0%	6,60						8,77	1088,516
2223+0.000	8,42	1088,881					-6,60	-2,0%	1090,355	1090,223	1088,634	1,59	788.145,361	8.177.875,985	1090,091	-2,0%	6,60						8,94	1088,531
2224+0.000	8,59	1088,897					-6,60	-2,0%	1090,486	1090,354	1088,683	1,67	788.161,990	8.177.864,874	1090,222	-2,0%	6,60						8,94	1088,663
2225+0.000	8,78	1088,898					-6,60	-2,0%	1090,617	1090,485	1088,675	1,81	788.178,620	8.177.853,763	1090,353	-2,0%	6,60						9,13	1088,666
2226+0.000	8,81	1089,011					-6,60	-2,0%	1090,748	1090,616	1088,710	1,91	788.195,250	8.177.842,652	1090,484	-2,0%	6,60						9,13	1088,795
2227+0.000	9,02	1089,002					-6,60	-2,0%	1090,876	1090,744	1088,910	1,83	788.211,879	8.177.831,541	1090,612	-2,0%	6,60						9,20	1088,881
2228+0.000	9,11	1089,033					-6,60	-2,0%	1090,973	1090,841	1088,922	1,92	788.228,509	8.177.820,430	1090,709	-2,0%	6,60						9,36	1088,867
2229+0.000	9,18	1089,046					-6,60	-2,0%	1091,032	1090,900	1088,900	2,00	788.245,139	8.177.809,319	1090,768	-2,0%	6,60						9,44	1088,876
2230+0.000	9,11	1089,115					-6,60	-2,0%	1091,052	1090,920	1088,939	1,98	788.261,768	8.177.798,208	1090,788	-2,0%	6,60						9,41	1088,913
2231+0.000	8,91	1089,228					-6,60	-2,0%	1091,033	1090,901	1088,976	1,92	788.278,398	8.177.787,097	1090,769	-2,0%	6,60						9,30	1088,971
2232+0.000	8,77	1089,266					-6,60	-2,0%	1090,976	1090,844	1089,062	1,78	788.295,027	8.177.775,986	1090,712	-2,0%	6,60						9,12	1089,035
2233+0.000	8,60	1089,288					-6,60	-2,0%	1090,882	1090,750	1089,099	1,65	788.311,657	8.177.764,875	1090,618	-2,0%	6,60						8,83	1089,134
2234+0.000	8,38	1089,334					-6,60	-2,0%	1090,781	1090,649	1089,163	1,49	788.328,287	8.177.753,764	1090,517	-2,0%	6,60						8,63	1089,162
2235+0.000	8,15	1089,384					-6,60	-2,0%	1090,680	1090,548	1089,215	1,33	788.344,916	8.177.742,653	1090,416	-2,0%	6,60						8,37	1089,237
2236+0.000	7,95	1089,416					-6,60	-2,0%	1090,579	1090,447	1089,302	1,14	788.361,546	8.177.731,542	1090,315	-2,0%	6,60						8,06	1089,338
2237+0.000	7,76	1089,437					-6,60	-2,0%	1090,478	1090,346	1089,311	1,04	788.378,176	8.177.720,431	1090,214	-2,0%	6,60						7,89	1089,352
2238+0.000	7,42	1089,566					-6,60	-2,0%	1090,376	1090,244	1089,447	0,80	788.394,805	8.177.709,320	1090,112	-2,0%	6,60						7,60	1089,449
2239+0.000	7,28	1089,560					-6,60	-2,0%	1090,275	1090,143	1089,478	0,66	788.411,435	8.177.698,209	1090,011	-2,0%	6,60						7,44	1089,453
2240+0.000	7,20	1089,514					-6,60	-2,0%	1090,176	1090,044	1089,494	0,55	788.428,065	8.177.687,098	1089,912	-2,0%	6,60						7,21	1089,505
2241+0.000	6,96	1089,600					-6,60	-2,0%	1090,104	1089,972	1089,543	0,43	788.444,694	8.177.675,987	1089,980	0,1%	6,60						7,30	1089,515
2242+0.000	6,95	1089,569					-6,60	-2,0%	1090,065	1089,933	1089,529	0,40	788.461,356	8.177.664,924	1090,065	2,0%	6,60						7,37	1089,550
2243+0.000	6,83	1089,645					-6,60	-2,0%	1090,060	1089,928	1089,590	0,34	788.478,124	8.177.654,023	1090,060	2,0%	6,60						7,31	1089,588
2244+0.000	6,95	1089,594					-6,60	-2,0%	1090,088	1089,956	1089,616	0,34	788.495,001	8.177.643,291	1090,088	2,0%	6,60						7,31	1089,612
2245+0.000	6,64	1089,862					-6,60	-2,0%	1090,150	1090,018	1089,691	0,33	788.511,984	8.177.632,728	1090,150	2,0%	6,60						7,34	1089,657
2246+0.000	6,70	1089,912					-6,60	-2,0%	1090,243	1090,111	1089,775	0,34	788.529,072	8.177.622,335	1090,243	2,0%	6,60						7,46	1089,672
2247+0.000	6,80	1089,946					-6,60	-2,0%	1090,343	1090,211	1089,761	0,45	788.546,262	8.177.612,114	1090,343	2,0%	6,60						7,63	1089,659
2248+0.000	6,95	1089,945					-6,60	-2,0%	1090,443	1090,311	1089,781	0,53	788.563,554	8.177.602,065	1090,443	2,0%	6,60						7,72	1089,700
2249+0.000	7,13	1089,928					-6,60	-2,0%	1090,544	1090,412	1089,783	0,63	788.580,946	8.177.592,190	1090,544	2,0%	6,60						7,86	1089,706
2250+0.000	7,16	1090,005					-6,60	-2,0%	1090,644	1090,512	1089,926	0,59	788.598,436	8.177.582,489	1090,644	2,0%	6,60						7,88	1089,794
2251+0.000	7,32	1090,000					-6,60	-2,0%	1090,744	1090,612	1089,823	0,79	788.616,009	8.177.572,940	1090,568	-0,7%	6,60						7,74	1089,807
2252+0.000	7,51	1089,976					-6,60	-2,0%	1090,844	1090,712	1089,800	0,91	788.633,594	8.177.563,412	1090,580	-2,0%	6,60						7,76	1089,806
2253+0.000	7,61	1090,007					-6,60	-2,0%	1090,945	1090,813	1089,830	0,98	788.651,178	8.177.553,884	1090,681	-2,0%	6,60						7,86	1089,844
2254+0.000	7,74	1090,024					-6,60	-2,0%	1091,045	1090,913	1089,868	1,05	788.668,763	8.177.544,356	1090,781	-2,0%	6,60						8,07	1089,803



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2255+0.000	7,79	1090,085					-6,60	-2,0%	1091,145	1091,013	1089,915	1,10	788.686,347	8.177.534,828	1090,881	-2,0%	6,60						8,13	1089,863
2256+0.000	7,94	1090,088					-6,60	-2,0%	1091,245	1091,113	1089,914	1,20	788.703,932	8.177.525,300	1090,981	-2,0%	6,60						8,30	1089,848
2257+0.000	7,96	1090,174					-6,60	-2,0%	1091,346	1091,214	1089,940	1,27	788.721,516	8.177.515,771	1091,082	-2,0%	6,60						8,47	1089,836
2258+0.000	8,27	1090,071					-6,60	-2,0%	1091,446	1091,314	1089,854	1,46	788.739,101	8.177.506,243	1091,182	-2,0%	6,60						8,72	1089,766
2259+0.000	8,27	1090,166					-6,60	-2,0%	1091,546	1091,414	1090,239	1,17	788.756,685	8.177.496,715	1091,282	-2,0%	6,60						7,76	1090,511
2260+0.000	8,28	1090,265					-6,60	-2,0%	1091,646	1091,514	1090,029	1,48	788.774,270	8.177.487,187	1091,382	-2,0%	6,60						8,75	1089,948
2261+0.000	8,36	1090,308					-6,60	-2,0%	1091,746	1091,614	1090,236	1,38	788.791,854	8.177.477,659	1091,482	-2,0%	6,60						8,80	1090,013
2262+0.000	8,58	1090,245					-6,60	-2,0%	1091,827	1091,695	1090,234	1,46	788.809,439	8.177.468,131	1091,563	-2,0%	6,60						8,85	1090,066
2263+0.000	8,68	1090,209					-6,60	-2,0%	1091,857	1091,725	1090,221	1,50	788.827,023	8.177.458,603	1091,593	-2,0%	6,60						8,90	1090,063
2264+0.000	8,70	1090,174					-6,60	-2,0%	1091,835	1091,703	1090,212	1,49	788.844,608	8.177.449,074	1091,571	-2,0%	6,60						8,76	1090,130
2265+0.000	8,63	1090,146					-6,60	-2,0%	1091,764	1091,632	1090,221	1,41	788.862,192	8.177.439,546	1091,500	-2,0%	6,60						8,68	1090,112
2266+0.000	8,41	1090,189					-6,60	-2,0%	1091,661	1091,529	1090,163	1,37	788.879,777	8.177.430,018	1091,397	-2,0%	6,60						8,71	1089,987
2267+0.000	8,32	1090,148					-6,60	-2,0%	1091,558	1091,426	1090,148	1,28	788.897,361	8.177.420,490	1091,294	-2,0%	6,60						8,58	1089,975
2268+0.000	8,06	1090,216					-6,60	-2,0%	1091,455	1091,323	1090,164	1,16	788.914,946	8.177.410,962	1091,191	-2,0%	6,60						8,38	1090,006
2269+0.000	7,91	1090,215					-6,60	-2,0%	1091,352	1091,220	1090,192	1,03	788.932,530	8.177.401,434	1091,088	-2,0%	6,60						8,24	1089,998
2270+0.000	7,77	1090,207					-6,60	-2,0%	1091,249	1091,117	1090,203	0,91	788.950,115	8.177.391,906	1090,985	-2,0%	6,60						8,06	1090,011
2271+0.000	7,53	1090,263					-6,60	-2,0%	1091,146	1091,014	1090,203	0,81	788.967,699	8.177.382,377	1090,882	-2,0%	6,60						7,80	1090,079
2272+0.000	7,21	1090,371					-6,60	-2,0%	1091,042	1090,910	1090,270	0,64	788.985,284	8.177.372,849	1090,778	-2,0%	6,60						7,57	1090,132
2273+0.000	7,15	1090,320					-6,60	-2,0%	1090,952	1090,820	1090,323	0,50	789.002,868	8.177.363,321	1090,688	-2,0%	6,60						7,34	1090,193
2274+0.000	6,90	1090,447					-6,60	-2,0%	1090,912	1090,780	1090,364	0,42	789.020,453	8.177.353,793	1090,648	-2,0%	6,60						7,18	1090,263
2275+0.000	6,88	1090,474					-6,60	-2,0%	1090,926	1090,794	1090,442	0,35	789.038,037	8.177.344,265	1090,662	-2,0%	6,60						7,03	1090,376
2276+0.000	6,94	1090,504					-6,60	-2,0%	1090,994	1090,862	1090,593	0,27	789.055,622	8.177.334,737	1090,730	-2,0%	6,60						6,93	1090,513
2277+0.000	6,97	1090,592					-6,60	-2,0%	1091,103	1090,971	1090,610	0,36	789.073,206	8.177.325,209	1090,839	-2,0%	6,60						6,97	1090,591
2278+0.000	6,95	1090,717					-6,60	-2,0%	1091,216	1091,084	1090,675	0,41	789.090,791	8.177.315,680	1090,952	-2,0%	6,60						6,92	1090,738
2279+0.000	7,02	1090,782					-6,60	-2,0%	1091,328	1091,196	1090,753	0,44	789.108,375	8.177.306,152	1091,064	-2,0%	6,60						6,99	1090,806
2280+0.000	7,04	1090,886					-6,60	-2,0%	1091,440	1091,308	1090,862	0,45	789.125,960	8.177.296,624	1091,176	-2,0%	6,60						7,05	1090,878
2281+0.000	7,04	1090,996					-6,60	-2,0%	1091,553	1091,421	1090,890	0,53	789.143,544	8.177.287,096	1091,289	-2,0%	6,60						7,04	1090,992
2282+0.000	7,14	1091,043					-6,60	-2,0%	1091,665	1091,533	1091,069	0,46	789.161,129	8.177.277,568	1091,401	-2,0%	6,60						7,18	1091,018
2283+0.000	7,18	1091,128					-6,60	-2,0%	1091,777	1091,645	1091,039	0,61	789.178,713	8.177.268,040	1091,513	-2,0%	6,60						7,24	1091,089
2284+0.000	7,45	1091,060					-6,60	-2,0%	1091,890	1091,758	1091,096	0,66	789.196,298	8.177.258,512	1091,626	-2,0%	6,60						7,44	1091,069
2285+0.000	7,49	1091,145					-6,60	-2,0%	1092,002	1091,870	1091,152	0,72	789.213,882	8.177.248,983	1091,738	-2,0%	6,60						7,45	1091,174
2286+0.000	7,42	1091,301					-6,60	-2,0%	1092,114	1091,982	1091,332	0,65	789.231,467	8.177.239,455	1091,850	-2,0%	6,60						7,47	1091,269
2287+0.000	7,22	1091,553					-6,60	-2,0%	1092,227	1092,095	1091,458	0,64	789.249,051	8.177.229,927	1091,963	-2,0%	6,60						7,37	1091,450
2288+0.000	7,30	1091,606					-6,60	-2,0%	1092,339	1092,207	1091,499	0,71	789.266,636	8.177.220,399	1092,075	-2,0%	6,60						7,64	1091,379
2289+0.000	7,35	1091,691					-6,60	-2,0%	1092,451	1092,319	1091,662	0,66	789.284,220	8.177.210,871	1092,187	-2,0%	6,60						7,56	1091,548
2290+0.000	7,42	1091,755					-6,60	-2,0%	1092,563	1092,431	1091,747	0,68	789.301,805	8.177.201,343	1092,299	-2,0%	6,60						7,65	1091,600
2291+0.000	7,46	1091,837					-6,60	-2,0%	1092,676	1092,544	1091,812	0,73	789.319,389	8.177.191,815	1092,412	-2,0%	6,60						7,71	1091,671
2292+0.000	7,50	1091,924					-6,60	-2,0%	1092,788	1092,656	1091,941	0,71	789.336,974	8.177.182,286	1092,524	-2,0%	6,60						7,71	1091,787
2293+0.000	7,61	1091,965					-6,60	-2,0%	1092,900	1092,768	1091,939	0,83	789.354,558	8.177.172,758	1092,636	-2,0%	6,60						7,78	1091,848
2294+0.000	7,70	1092,016					-6,60	-2,0%	1093,013	1092,881	1091,976	0,90	789.372,143	8.177.163,230	1092,749	-2,0%	6,60						7,89	1091,891
2295+0.000	7,84	1092,032					-6,60	-2,0%	1093,125	1092,993	1091,993	1,00	789.389,727	8.177.153,702	1092,861	-2,0%	6,60						7,99	1091,932



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2296+0.000	7,93	1092,088					-6,60	-2,0%	1093,237	1093,105	1091,989	1,12	789.407,311	8.177.144,174	1092,973	-2,0%	6,60						8,06	1092,001
2297+0.000	7,99	1092,157					-6,60	-2,0%	1093,350	1093,218	1092,058	1,16	789.424,896	8.177.134,646	1093,086	-2,0%	6,60						8,18	1092,031
2298+0.000	8,07	1092,217					-6,60	-2,0%	1093,462	1093,330	1092,082	1,25	789.442,480	8.177.125,118	1093,198	-2,0%	6,60						8,25	1092,100
2299+0.000	8,18	1092,258					-6,60	-2,0%	1093,574	1093,442	1092,175	1,27	789.460,065	8.177.115,589	1093,310	-2,0%	6,60						8,32	1092,164
2300+0.000	8,22	1092,341					-6,60	-2,0%	1093,687	1093,555	1092,303	1,25	789.477,649	8.177.106,061	1093,423	-2,0%	6,60						8,34	1092,261
2301+0.000	8,30	1092,402					-6,60	-2,0%	1093,799	1093,667	1092,371	1,30	789.495,234	8.177.096,533	1093,535	-2,0%	6,60						8,39	1092,345
2302+0.000	8,36	1092,477					-6,60	-2,0%	1093,911	1093,779	1092,441	1,34	789.512,818	8.177.087,005	1093,647	-2,0%	6,60						8,49	1092,389
2303+0.000	8,46	1092,520					-6,60	-2,0%	1094,023	1093,891	1092,500	1,39	789.530,403	8.177.077,477	1093,759	-2,0%	6,60						8,61	1092,418
2304+0.000	8,51	1092,577					-6,60	-2,0%	1094,113	1093,981	1092,571	1,41	789.547,987	8.177.067,949	1093,849	-2,0%	6,60						8,62	1092,500
2305+0.000	8,69	1092,601					-6,60	-0,7%	1094,079	1094,036	1092,612	1,42	789.565,572	8.177.058,421	1093,904	-2,0%	6,60						8,70	1092,504
2306+0.000	8,93	1092,641					-6,60	2,1%	1093,916	1094,055	1092,638	1,42	789.583,152	8.177.048,884	1093,916	-2,1%	6,60						8,59	1092,589
2307+0.000	9,06	1092,666					-6,60	4,0%	1093,776	1094,040	1092,632	1,41	789.600,546	8.177.039,015	1093,776	-4,0%	6,60						8,35	1092,607
2308+0.000	8,98	1092,669					-6,60	4,0%	1093,725	1093,989	1092,639	1,35	789.617,652	8.177.028,652	1093,725	-4,0%	6,60						8,29	1092,599
2309+0.000	8,89	1092,645					-6,60	4,0%	1093,640	1093,904	1092,611	1,29	789.634,454	8.177.017,806	1093,640	-4,0%	6,60						8,20	1092,576
2310+0.000	8,67	1092,690					-6,60	4,0%	1093,542	1093,806	1092,667	1,14	789.650,940	8.177.006,484	1093,542	-4,0%	6,60						7,83	1092,726
2311+0.000	8,43	1092,753					-6,60	4,0%	1093,445	1093,709	1092,664	1,05	789.667,096	8.176.994,695	1093,445	-4,0%	6,60						7,72	1092,700
2312+0.000	8,37	1092,694					-6,60	4,0%	1093,347	1093,611	1092,683	0,93	789.682,908	8.176.982,450	1093,347	-4,0%	6,60						7,56	1092,707
2313+0.000	8,24	1092,686					-6,60	4,0%	1093,249	1093,513	1092,701	0,81	789.698,364	8.176.969,758	1093,249	-4,0%	6,60						7,35	1092,748
2314+0.000	8,14	1092,652					-6,60	4,0%	1093,151	1093,415	1092,671	0,74	789.713,451	8.176.956,629	1093,151	-4,0%	6,60						7,27	1092,704
2315+0.000	7,96	1092,675					-6,60	4,0%	1093,053	1093,317	1092,694	0,62	789.728,157	8.176.943,075	1093,053	-4,0%	6,60						7,11	1092,711
2316+0.000	7,83	1092,662					-6,60	4,0%	1092,955	1093,219	1092,737	0,48	789.742,469	8.176.929,107	1092,955	-4,0%	6,60						7,03	1092,667
2317+0.000	7,59	1092,726					-6,60	4,0%	1092,857	1093,121	1092,777	0,34	789.756,377	8.176.914,735	1092,857	-4,0%	6,60						6,68	1092,802
2318+0.000	7,25	1092,862					-6,60	4,0%	1092,765	1093,029	1092,815	0,21	789.769,869	8.176.899,972	1092,765	-4,0%	6,60						6,62	1092,787
2319+0.000	7,18	1092,835					-6,60	3,9%	1092,713	1092,968	1092,821	0,15	789.782,933	8.176.884,829	1092,713	-3,9%	6,60						6,65	1092,767
2320+0.000	6,84	1092,853					-6,60	1,1%	1092,867	1092,940	1092,883	0,06	789.795,566	8.176.869,325	1092,808	-2,0%	6,60						6,65	1092,773
2321+0.000	6,64	1092,881					-6,60	-1,7%	1093,055	1092,946	1092,814	0,13	789.808,051	8.176.853,700	1092,814	-2,0%	6,60						6,75	1092,714
2322+0.000	6,68	1092,930					-6,60	-2,0%	1093,118	1092,986	1092,880	0,11	789.820,535	8.176.838,075	1092,854	-2,0%	6,60						6,71	1092,783
2323+0.000	6,64	1092,969					-6,60	-2,0%	1093,191	1093,059	1092,915	0,14	789.833,019	8.176.822,450	1092,927	-2,0%	6,60						6,74	1092,831
2324+0.000	6,68	1092,977					-6,60	-2,0%	1093,291	1093,159	1092,928	0,23	789.845,503	8.176.806,825	1093,027	-2,0%	6,60						6,92	1092,814
2325+0.000	6,82	1092,981					-6,60	-2,0%	1093,395	1093,263	1092,947	0,32	789.857,988	8.176.791,200	1093,131	-2,0%	6,60						6,99	1092,871
2326+0.000	6,96	1092,995					-6,60	-2,0%	1093,498	1093,366	1093,007	0,36	789.870,472	8.176.775,575	1093,234	-2,0%	6,60						7,07	1092,924
2327+0.000	7,10	1093,003					-6,60	-2,0%	1093,602	1093,470	1093,037	0,43	789.882,956	8.176.759,950	1093,338	-2,0%	6,60						7,16	1092,961
2328+0.000	7,19	1093,045					-6,60	-2,0%	1093,705	1093,573	1093,040	0,53	789.895,440	8.176.744,325	1093,441	-2,0%	6,60						7,25	1093,008
2329+0.000	7,33	1093,060					-6,60	-2,0%	1093,809	1093,677	1093,055	0,62	789.907,925	8.176.728,700	1093,545	-2,0%	6,60						7,33	1093,057
2330+0.000	7,41	1093,107					-6,60	-2,0%	1093,912	1093,780	1093,131	0,65	789.920,409	8.176.713,075	1093,648	-2,0%	6,60						7,35	1093,145
2331+0.000	7,49	1093,157					-6,60	-2,0%	1094,016	1093,884	1093,192	0,69	789.932,893	8.176.697,449	1093,752	-2,0%	6,60						7,40	1093,216
2332+0.000	7,50	1093,255					-6,60	-2,0%	1094,119	1093,987	1093,218	0,77	789.945,377	8.176.681,824	1093,855	-2,0%	6,60						7,50	1093,254
2333+0.000	7,68	1093,239					-6,60	-2,0%	1094,223	1094,091	1093,302	0,79	789.957,862	8.176.666,199	1093,959	-2,0%	6,60						7,57	1093,314
2334+0.000	7,71	1093,321					-6,60	-2,0%	1094,326	1094,194	1093,335	0,86	789.970,346	8.176.650,574	1094,062	-2,0%	6,60						7,59	1093,404
2335+0.000	7,75	1093,398					-6,60	-2,0%	1094,430	1094,298	1093,376	0,92	789.982,830	8.176.634,949	1094,211	-1,3%	6,60						7,78	1093,427
2336+0.000	7,87	1093,422					-6,60	-2,0%	1094,533	1094,401	1093,422	0,98	789.995,315	8.176.619,324	1094,499	1,5%	6,60						8,11	1093,489



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
2337+0.000	7,70	1093,492					-6,60	-4,2%	1094,782	1094,505	1093,529	0,98	790.008,001	8.176.603,864	1094,782	4,2%	6,60						8,37	1093,600
2338+0.000	7,70	1093,597					-6,60	-4,2%	1094,885	1094,608	1093,566	1,04	790.021,149	8.176.588,794	1094,885	4,2%	6,60						8,43	1093,666
2339+0.000	7,77	1093,653					-6,60	-4,2%	1094,989	1094,712	1093,601	1,11	790.034,747	8.176.574,129	1094,989	4,2%	6,60						8,46	1093,749
2340+0.000	7,78	1093,754					-6,60	-4,2%	1095,092	1094,815	1093,717	1,10	790.048,784	8.176.559,883	1095,092	4,2%	6,60						8,60	1093,759
2341+0.000	7,91	1093,767					-6,60	-4,2%	1095,196	1094,919	1093,757	1,16	790.063,245	8.176.546,069	1095,196	4,2%	6,60						8,72	1093,783
2342+0.000	7,98	1093,823					-6,60	-4,2%	1095,299	1095,022	1093,827	1,19	790.078,119	8.176.532,699	1095,299	4,2%	6,60						8,75	1093,864
2343+0.000	7,95	1093,947					-6,60	-4,2%	1095,403	1095,126	1093,992	1,13	790.093,391	8.176.519,786	1095,403	4,2%	6,60						8,47	1094,155
2344+0.000	8,04	1093,993					-6,60	-4,2%	1095,506	1095,229	1094,042	1,19	790.109,047	8.176.507,342	1095,506	4,2%	6,60						8,63	1094,152
2345+0.000	8,14	1094,026					-6,60	-4,2%	1095,609	1095,332	1094,138	1,19	790.125,073	8.176.495,378	1095,609	4,2%	6,60						8,75	1094,174
2346+0.000	8,18	1094,103					-6,60	-4,2%	1095,713	1095,436	1094,167	1,27	790.141,454	8.176.483,905	1095,713	4,2%	6,60						8,75	1094,278
2347+0.000	8,18	1094,208					-6,60	-4,2%	1095,816	1095,539	1094,308	1,23	790.158,175	8.176.472,933	1095,816	4,2%	6,60						8,74	1094,391
2348+0.000	8,24	1094,270					-6,60	-4,2%	1095,915	1095,638	1094,414	1,22	790.175,220	8.176.462,474	1095,915	4,2%	6,60						8,83	1094,428
2349+0.000	8,30	1094,309					-6,60	-4,2%	1095,993	1095,716	1094,416	1,30	790.192,575	8.176.452,535	1095,993	4,2%	6,60						8,94	1094,433
2350+0.000	8,24	1094,403					-6,60	-4,2%	1096,052	1095,775	1094,471	1,30	790.210,224	8.176.443,127	1096,052	4,2%	6,60						9,00	1094,451
2351+0.000	8,35	1094,371					-6,60	-4,2%	1096,090	1095,813	1094,477	1,34	790.228,149	8.176.434,258	1096,090	4,2%	6,60						8,86	1094,585
2352+0.000	8,27	1094,443					-6,60	-4,2%	1096,108	1095,831	1094,558	1,27	790.246,334	8.176.425,936	1096,108	4,2%	6,60						8,95	1094,543
2353+0.000	8,22	1094,469					-6,60	-4,2%	1096,106	1095,829	1094,578	1,25	790.264,763	8.176.418,168	1096,106	4,2%	6,60						8,88	1094,589
2354+0.000	8,24	1094,436					-6,60	-4,2%	1096,084	1095,807	1094,477	1,33	790.283,420	8.176.410,963	1096,084	4,2%	6,60						8,95	1094,519
2355+0.000	8,26	1094,388					-6,60	-4,1%	1096,032	1095,764	1094,385	1,38	790.302,286	8.176.404,327	1096,032	4,1%	6,60						8,94	1094,472
2356+0.000	8,50	1094,304					-6,60	-2,0%	1095,833	1095,701	1094,315	1,39	790.321,342	8.176.398,258	1095,784	1,3%	6,60						8,56	1094,478
2357+0.000	8,36	1094,314					-6,60	-2,0%	1095,751	1095,619	1094,311	1,31	790.340,465	8.176.392,399	1095,517	-1,5%	6,60						8,15	1094,486
2358+0.000	8,30	1094,253					-6,60	-2,0%	1095,653	1095,521	1094,295	1,23	790.359,587	8.176.386,540	1095,389	-2,0%	6,60						8,09	1094,394
2359+0.000	8,22	1094,212					-6,60	-2,0%	1095,554	1095,422	1094,232	1,19	790.378,709	8.176.380,681	1095,290	-2,0%	6,60						8,01	1094,353
2360+0.000	8,13	1094,172					-6,60	-2,0%	1095,456	1095,324	1094,165	1,16	790.397,832	8.176.374,821	1095,192	-2,0%	6,60						7,98	1094,273
2361+0.000	8,00	1094,162					-6,60	-2,0%	1095,357	1095,225	1094,165	1,06	790.416,954	8.176.368,962	1095,093	-2,0%	6,60						7,83	1094,271
2362+0.000	7,83	1094,172					-6,60	-2,0%	1095,259	1095,127	1094,174	0,95	790.436,077	8.176.363,103	1094,995	-2,0%	6,60						7,81	1094,187
2363+0.000	7,76	1094,126					-6,60	-2,0%	1095,160	1095,028	1094,096	0,93	790.455,199	8.176.357,244	1094,896	-2,0%	6,60						7,75	1094,132
2364+0.000	7,69	1094,072					-6,60	-2,0%	1095,062	1094,930	1093,937	0,99	790.474,322	8.176.351,385	1094,798	-2,0%	6,60						7,63	1094,112
2365+0.000	7,79	1093,907					-6,60	-2,0%	1094,963	1094,831	1093,874	0,96	790.493,444	8.176.345,525	1094,699	-2,0%	6,60						7,60	1094,034
2366+0.000	7,73	1093,850					-6,60	-2,0%	1094,865	1094,733	1093,777	0,96	790.512,567	8.176.339,666	1094,601	-2,0%	6,60						7,55	1093,967
2367+0.000	7,73	1093,749					-6,60	-2,0%	1094,766	1094,634	1093,708	0,93	790.531,689	8.176.333,807	1094,502	-2,0%	6,60						7,47	1093,924
2368+0.000	7,71	1093,664					-6,60	-2,0%	1094,668	1094,536	1093,604	0,93	790.550,812	8.176.327,948	1094,404	-2,0%	6,60						7,40	1093,873
2369+0.000	7,74	1093,546					-6,60	-2,0%	1094,569	1094,437	1093,504	0,93	790.569,934	8.176.322,089	1094,305	-2,0%	6,60						7,39	1093,780
2370+0.000	7,72	1093,459					-6,60	-2,0%	1094,471	1094,339	1093,419	0,92	790.589,057	8.176.316,229	1094,207	-2,0%	6,60						7,39	1093,682
2371+0.000	7,67	1093,396					-6,60	-2,0%	1094,372	1094,240	1093,403	0,84	790.608,179	8.176.310,370	1094,108	-2,0%	6,60						7,35	1093,606
2372+0.000	7,59	1093,352					-6,60	-2,0%	1094,274	1094,142	1093,440	0,70	790.627,302	8.176.304,511	1094,010	-2,0%	6,60						7,31	1093,539
2373+0.000	7,60	1093,246					-6,60	-2,0%	1094,176	1094,044	1093,287	0,76	790.646,424	8.176.298,652	1093,912	-2,0%	6,60						7,31	1093,440
2374+0.000	7,59	1093,153					-6,60	-2,0%	1094,077	1093,945	1093,173	0,77	790.665,547	8.176.292,793	1093,813	-2,0%	6,60						7,26	1093,373
2375+0.000	7,54	1093,090					-6,60	-2,0%	1093,979	1093,847	1093,040	0,81	790.684,669	8.176.286,933	1093,715	-2,0%	6,60						7,21	1093,308
2376+0.000	7,54	1092,988					-6,60	-2,0%	1093,880	1093,748	1092,889	0,86	790.703,792	8.176.281,074	1093,616	-2,0%	6,60						7,24	1093,190
2377+0.000	7,55	1092,886					-6,60	-2,0%	1093,782	1093,650	1092,829	0,82	790.722,914	8.176.275,215	1093,518	-2,0%	6,60						7,30	1093,050



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9															
2378+0.000	7,56	1092,780					-6,60	-2,0%	1093,683	1093,551	1092,774	0,78	790.742,037	8.176.269,356	1093,419	-2,0%	6,60						7,27	1092,976
2379+0.000	7,55	1092,689					-6,60	-2,0%	1093,585	1093,453	1092,674	0,78	790.761,159	8.176.263,497	1093,321	-2,0%	6,60						7,29	1092,859
2380+0.000	7,63	1092,534					-6,60	-2,0%	1093,486	1093,354	1092,584	0,77	790.780,282	8.176.257,637	1093,222	-2,0%	6,60						7,28	1092,768
2381+0.000	7,48	1092,534					-6,60	-2,0%	1093,388	1093,256	1092,555	0,70	790.799,404	8.176.251,778	1093,124	-2,0%	6,60						7,20	1092,724
2382+0.000	7,53	1092,408					-6,60	-2,0%	1093,289	1093,157	1092,504	0,65	790.818,527	8.176.245,919	1093,025	-2,0%	6,60						7,10	1092,692
2383+0.000	7,45	1092,363					-6,60	-2,0%	1093,191	1093,059	1092,461	0,60	790.837,649	8.176.240,060	1092,927	-2,0%	6,60						7,20	1092,527
2384+0.000	7,39	1092,304					-6,60	-2,0%	1093,092	1092,960	1092,361	0,60	790.856,772	8.176.234,201	1092,828	-2,0%	6,60						7,23	1092,407
2385+0.000	7,22	1092,314					-6,60	-2,0%	1092,994	1092,862	1092,335	0,53	790.875,894	8.176.228,341	1092,730	-2,0%	6,60						7,14	1092,371
2386+0.000	7,29	1092,171					-6,60	-2,0%	1092,895	1092,763	1092,271	0,49	790.895,017	8.176.222,482	1092,631	-2,0%	6,60						7,12	1092,288
2387+0.000	7,25	1092,110					-6,60	-2,0%	1092,803	1092,671	1092,184	0,49	790.914,139	8.176.216,623	1092,539	-2,0%	6,60						6,98	1092,285
2388+0.000	7,19	1092,083					-6,60	-2,0%	1092,743	1092,611	1092,143	0,47	790.933,262	8.176.210,764	1092,479	-2,0%	6,60						6,96	1092,241
2389+0.000	7,22	1092,038					-6,60	-2,0%	1092,716	1092,584	1092,091	0,49	790.952,384	8.176.204,905	1092,452	-2,0%	6,60						6,96	1092,210
2390+0.000	7,23	1092,038					-6,60	-2,0%	1092,723	1092,591	1092,104	0,49	790.971,507	8.176.199,045	1092,459	-2,0%	6,60						7,03	1092,170
2391+0.000	7,24	1092,074					-6,60	-2,0%	1092,763	1092,631	1092,143	0,49	790.990,629	8.176.193,186	1092,499	-2,0%	6,60						7,06	1092,195
2392+0.000	7,52	1091,959					-6,60	-2,0%	1092,837	1092,705	1092,044	0,66	791.009,752	8.176.187,327	1092,573	-2,0%	6,60						7,27	1092,128
2393+0.000	7,66	1091,965					-6,60	-2,0%	1092,937	1092,805	1092,071	0,73	791.028,874	8.176.181,468	1092,673	-2,0%	6,60						7,55	1092,042
2394+0.000	7,89	1091,915					-6,60	-2,0%	1093,040	1092,908	1092,068	0,84	791.047,997	8.176.175,609	1092,776	-2,0%	6,60						7,68	1092,054
2395+0.000	8,15	1091,844					-6,60	-2,0%	1093,143	1093,011	1092,023	0,99	791.067,119	8.176.169,750	1092,879	-2,0%	6,60						7,81	1092,070
2396+0.000	8,23	1091,896					-6,60	-2,0%	1093,246	1093,114	1091,985	1,13	791.086,242	8.176.163,890	1092,982	-2,0%	6,60						7,99	1092,053
2397+0.000	8,34	1091,928					-6,60	-2,0%	1093,348	1093,216	1092,042	1,17	791.105,364	8.176.158,031	1093,084	-2,0%	6,60						8,09	1092,092
2398+0.000	8,48	1091,935					-6,60	-2,0%	1093,451	1093,319	1092,006	1,31	791.124,487	8.176.152,172	1093,187	-2,0%	6,60						8,27	1092,072
2399+0.000	8,64	1091,928					-6,60	-2,0%	1093,554	1093,422	1091,987	1,43	791.143,609	8.176.146,313	1093,290	-2,0%	6,60						8,45	1092,058
2400+0.000	8,72	1091,979					-6,60	-2,0%	1093,657	1093,525	1091,981	1,54	791.162,732	8.176.140,454	1093,393	-2,0%	6,60						8,54	1092,102
2401+0.000	9,04	1091,870					-6,60	-2,0%	1093,760	1093,628	1092,009	1,62	791.181,854	8.176.134,594	1093,496	-2,0%	6,60						8,70	1092,099
2402+0.000	9,18	1091,881					-6,60	-2,0%	1093,862	1093,730	1091,976	1,75	791.200,977	8.176.128,735	1093,598	-2,0%	6,60						8,89	1092,074
2403+0.000	9,29	1091,907					-6,60	-2,0%	1093,965	1093,833	1091,975	1,86	791.220,099	8.176.122,876	1093,701	-2,0%	6,60						9,18	1091,979
2404+0.000	9,42	1091,919					-6,60	-2,0%	1094,063	1093,931	1092,038	1,89	791.239,222	8.176.117,017	1093,799	-2,0%	6,60						9,11	1092,124
2405+0.000	9,50	1091,946					-6,60	-2,0%	1094,142	1094,010	1092,004	2,01	791.258,344	8.176.111,158	1093,878	-2,0%	6,60						9,21	1092,136
2406+0.000	9,55	1091,971					-6,60	-2,0%	1094,201	1094,069	1092,032	2,04	791.277,467	8.176.105,298	1093,937	-2,0%	6,60						9,22	1092,188
2407+0.000	9,67	1091,929					-6,60	-2,0%	1094,241	1094,109	1092,068	2,04	791.296,589	8.176.099,439	1093,977	-2,0%	6,60						9,21	1092,238
2408+0.000	9,70	1091,929					-6,60	-2,0%	1094,261	1094,129	1092,016	2,11	791.315,712	8.176.093,580	1093,997	-2,0%	6,60						9,30	1092,196
2409+0.000	9,69	1091,936					-6,60	-2,0%	1094,262	1094,130	1092,068	2,06	791.334,834	8.176.087,721	1093,998	-2,0%	6,60						9,24	1092,238
2410+0.000	9,52	1092,035					-6,60	-2,0%	1094,243	1094,111	1092,082	2,03	791.353,957	8.176.081,862	1093,979	-2,0%	6,60						9,12	1092,299
2411+0.000	9,50	1092,006					-6,60	-2,0%	1094,205	1094,073	1092,116	1,96	791.373,079	8.176.076,002	1093,941	-2,0%	6,60						9,09	1092,282
2412+0.000	9,47	1091,972					-6,60	-2,0%	1094,147	1094,015	1092,116	1,90	791.392,202	8.176.070,143	1093,883	-2,0%	6,60						8,97	1092,303
2413+0.000	9,33	1091,986					-6,60	-2,0%	1094,069	1093,937	1092,057	1,88	791.411,324	8.176.064,284	1093,805	-2,0%	6,60						8,85	1092,302
2414+0.000	9,25	1091,944					-6,60	-2,0%	1093,973	1093,841	1092,063	1,78	791.430,447	8.176.058,425	1093,709	-2,0%	6,60						8,72	1092,296
2415+0.000	9,08	1091,943					-6,60	-2,0%	1093,861	1093,729	1092,002	1,73	791.449,569	8.176.052,566	1093,597	-2,0%	6,60						8,61	1092,255
2416+0.000	8,92	1091,941					-6,60	-2,0%	1093,750	1093,618	1092,068	1,55	791.468,692	8.176.046,706	1093,486	-2,0%	6,60						8,44	1092,257
2417+0.000	8,84	1091,883					-6,60	-2,0%	1093,638	1093,506	1092,010	1,50	791.487,814	8.176.040,847	1093,374	-2,0%	6,60						8,32	1092,224
2418+0.000	8,86	1091,755					-6,60	-2,0%	1093,526	1093,394	1091,919	1,47	791.506,937	8.176.034,988	1093,262	-2,0%	6,60						8,27	1092,152



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset		
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl
	1		2		3		4					5			6			7		8		9	
2419+0.000	8,77	1091,705					-6,60	-2,0%	1093,414	1093,282	1091,846	1,44	791.526,059	8.176.029,129	1093,150	-2,0%	6,60					8,03	1092,196
2420+0.000	8,67	1091,660					-6,60	-2,0%	1093,302	1093,170	1091,799	1,37	791.545,182	8.176.023,270	1093,038	-2,0%	6,60					7,98	1092,116
2421+0.000	8,42	1091,714					-6,60	-2,0%	1093,190	1093,058	1091,816	1,24	791.564,304	8.176.017,410	1092,926	-2,0%	6,60					7,90	1092,060
2422+0.000	8,46	1091,574					-6,60	-2,0%	1093,078	1092,946	1091,771	1,17	791.583,427	8.176.011,551	1092,814	-2,0%	6,60					7,80	1092,017
2423+0.000	8,34	1091,543					-6,60	-2,0%	1092,966	1092,834	1091,783	1,05	791.602,549	8.176.005,692	1092,702	-2,0%	6,60					7,73	1091,948
2424+0.000	8,22	1091,513					-6,60	-2,0%	1092,854	1092,722	1091,632	1,09	791.621,672	8.175.999,833	1092,590	-2,0%	6,60					7,62	1091,912
2425+0.000	8,05	1091,512					-6,60	-2,0%	1092,742	1092,610	1091,594	1,02	791.640,794	8.175.993,974	1092,478	-2,0%	6,60					7,45	1091,913
2426+0.000	8,05	1091,397					-6,60	-2,0%	1092,631	1092,499	1091,559	0,94	791.659,917	8.175.988,114	1092,367	-2,0%	6,60					7,45	1091,801
2427+0.000	7,99	1091,331					-6,60	-2,0%	1092,519	1092,387	1091,543	0,84	791.679,039	8.175.982,255	1092,255	-2,0%	6,60					7,43	1091,704
2428+0.000	7,84	1091,317					-6,60	-2,0%	1092,407	1092,275	1091,497	0,78	791.698,162	8.175.976,396	1092,143	-2,0%	6,60					7,37	1091,629
2429+0.000	7,88	1091,181					-6,60	-2,0%	1092,295	1092,163	1091,310	0,85	791.717,284	8.175.970,537	1092,031	-2,0%	6,60					7,30	1091,564
2430+0.000	7,86	1091,081					-6,60	-2,0%	1092,183	1092,051	1091,271	0,78	791.736,407	8.175.964,678	1091,919	-2,0%	6,60					7,19	1091,523
2431+0.000	7,74	1091,050					-6,60	-2,0%	1092,071	1091,939	1091,080	0,86	791.755,529	8.175.958,818	1091,807	-2,0%	6,60					7,15	1091,441
2432+0.000	7,63	1091,007					-6,60	-2,0%	1091,959	1091,827	1091,038	0,79	791.774,652	8.175.952,959	1091,861	0,5%	6,60					7,31	1091,389
2433+0.000	7,56	1090,859					-6,60	-3,3%	1091,934	1091,715	1090,983	0,73	791.793,804	8.175.947,199	1091,934	3,3%	6,60					7,53	1091,312
2434+0.000	7,38	1090,807					-6,60	-4,2%	1091,880	1091,603	1090,945	0,66	791.813,108	8.175.941,972	1091,880	4,2%	6,60					7,60	1091,215
2435+0.000	7,27	1090,768					-6,60	-4,2%	1091,768	1091,491	1090,779	0,71	791.832,562	8.175.937,332	1091,768	4,2%	6,60					7,61	1091,097
2436+0.000	7,31	1090,627					-6,60	-4,2%	1091,657	1091,380	1090,581	0,80	791.852,147	8.175.933,284	1091,657	4,2%	6,60					7,67	1090,941
2437+0.000	7,38	1090,474					-6,60	-4,2%	1091,545	1091,268	1090,484	0,78	791.871,846	8.175.929,831	1091,545	4,2%	6,60					7,93	1090,657
2438+0.000	7,45	1090,315					-6,60	-4,2%	1091,433	1091,156	1090,401	0,75	791.891,640	8.175.926,976	1091,433	4,2%	6,60					8,30	1090,300
2439+0.000	7,61	1090,091					-6,60	-4,2%	1091,321	1091,044	1090,290	0,75	791.911,512	8.175.924,723	1091,321	4,2%	6,60					8,36	1090,148
2440+0.000	7,66	1089,947					-6,60	-4,2%	1091,209	1090,932	1090,087	0,85	791.931,443	8.175.923,072	1091,209	4,2%	6,60					8,09	1090,215
2441+0.000	7,81	1089,722					-6,60	-4,2%	1091,083	1090,806	1089,868	0,94	791.951,415	8.175.922,026	1091,083	4,2%	6,60					8,21	1090,010
2442+0.000	7,95	1089,485					-6,60	-4,2%	1090,935	1090,658	1089,601	1,06	791.971,409	8.175.921,586	1090,935	4,2%	6,60					8,35	1089,767
2443+0.000	8,07	1089,228					-6,60	-4,2%	1090,764	1090,487	1089,416	1,07	791.991,408	8.175.921,752	1090,764	4,2%	6,60					8,47	1089,516
2444+0.000	8,15	1088,984					-6,60	-4,2%	1090,571	1090,294	1089,130	1,16	792.011,392	8.175.922,524	1090,571	4,2%	6,60					8,45	1089,338
2445+0.000	8,21	1088,729					-6,60	-4,2%	1090,354	1090,077	1088,820	1,26	792.031,344	8.175.923,900	1090,354	4,2%	6,60					8,58	1089,035
2446+0.000	8,22	1088,478					-6,60	-4,2%	1090,115	1089,838	1088,880	0,96	792.051,245	8.175.925,881	1090,115	4,2%	6,60					8,04	1089,154
2447+0.000	7,38	1088,782					-6,60	-4,2%	1089,854	1089,577	1089,740	-0,16	792.071,077	8.175.928,464	1089,854	4,2%	6,60					6,73	1089,768
2448+0.000	8,38	1087,830					-6,60	-4,2%	1089,569	1089,292	1088,013	1,28	792.090,821	8.175.931,646	1089,569	4,2%	6,60					8,84	1088,080
2449+0.000	8,39	1087,517					-6,60	-4,2%	1089,262	1088,985	1087,669	1,32	792.110,460	8.175.935,425	1089,262	4,2%	6,60					8,91	1087,721
2450+0.000	8,38	1087,191					-6,60	-4,2%	1088,933	1088,656	1087,304	1,35	792.129,975	8.175.939,798	1088,933	4,2%	6,60					8,86	1087,430
2451+0.000	8,36	1086,856					-6,60	-4,2%	1088,580	1088,303	1086,961	1,34	792.149,349	8.175.944,759	1088,580	4,2%	6,60					8,91	1087,040
2452+0.000	8,19	1086,590					-6,60	-4,2%	1088,205	1087,928	1086,697	1,23	792.168,564	8.175.950,306	1088,205	4,2%	6,60					9,12	1086,528
2453+0.000	8,13	1086,236					-6,60	-4,2%	1087,808	1087,531	1086,340	1,19	792.187,602	8.175.956,432	1087,808	4,2%	6,60					9,02	1086,197
2454+0.000	8,08	1085,845					-6,60	-4,2%	1087,387	1087,110	1086,059	1,05	792.206,446	8.175.963,132	1087,387	4,2%	6,60					8,86	1085,879
2455+0.000	8,07	1085,410					-6,60	-4,2%	1086,944	1086,667	1085,794	0,87	792.225,077	8.175.970,400	1086,944	4,2%	6,60					8,69	1085,548
2456+0.000	7,38	1085,421					-6,60	-4,2%	1086,492	1086,215	1085,150	1,06	792.243,481	8.175.978,229	1086,492	4,2%	6,60					9,01	1084,884
2457+0.000	7,65	1084,787					-6,60	-4,2%	1086,040	1085,763	1084,680	1,08	792.261,638	8.175.986,612	1086,040	4,2%	6,60					8,81	1084,569
2458+0.000	7,78	1084,300					-6,60	-3,4%	1085,535	1085,311	1084,222	1,09	792.279,533	8.175.995,541	1085,535	3,4%	6,60					8,53	1084,250
2459+0.000	7,97	1083,813					-6,60	-2,0%	1084,991	1084,859	1083,583	1,28	792.297,172	8.176.004,968	1084,898	0,6%	6,60					8,12	1083,883



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
2460+0.000	7,85	1083,439					-6,60	-2,0%	1084,538	1084,406	1083,195	1,21	792.314,757	8.176.014,495	1084,274	-2,0%	6,60						7,80	1083,474
2461+0.000	7,80	1083,020					-6,60	-2,0%	1084,086	1083,954	1082,794	1,16	792.332,342	8.176.024,022	1083,822	-2,0%	6,60						7,84	1082,999
2462+0.000	7,88	1082,515					-6,60	-2,0%	1083,634	1083,502	1082,332	1,17	792.349,927	8.176.033,548	1083,370	-2,0%	6,60						7,82	1082,556
2463+0.000	7,85	1082,084					-6,60	-2,0%	1083,182	1083,050	1081,883	1,17	792.367,513	8.176.043,075	1082,918	-2,0%	6,60						7,58	1082,264
2464+0.000	7,76	1081,694					-6,60	-2,0%	1082,730	1082,598	1081,736	0,86	792.385,098	8.176.052,602	1082,466	-2,0%	6,60						7,49	1081,872
2465+0.000	9,18	1080,293					-6,60	-2,0%	1082,278	1082,146	1081,721	0,42	792.402,683	8.176.062,128	1082,014	-2,0%	6,60						7,69	1081,288
2466+0.000	7,70	1080,828					-6,60	-2,0%	1081,826	1081,694	1080,468	1,23	792.420,269	8.176.071,655	1081,562	-2,0%	6,60						7,79	1080,768
2467+0.000	7,86	1080,270					-6,60	-2,0%	1081,373	1081,241	1079,996	1,24	792.437,854	8.176.081,182	1081,109	-2,0%	6,60						7,72	1080,365
2468+0.000	7,88	1079,807					-6,60	-2,0%	1080,921	1080,789	1079,499	1,29	792.455,439	8.176.090,708	1080,657	-2,0%	6,60						7,69	1079,928
2469+0.000	7,97	1079,294					-6,60	-2,0%	1080,469	1080,337	1078,989	1,35	792.473,024	8.176.100,235	1080,205	-2,0%	6,60						7,61	1079,529
2470+0.000	7,96	1078,844					-6,60	-2,0%	1080,017	1079,885	1078,646	1,24	792.490,610	8.176.109,762	1079,753	-2,0%	6,60						7,70	1079,018
2471+0.000	7,86	1078,461					-6,60	-2,0%	1079,565	1079,433	1078,122	1,31	792.508,195	8.176.119,288	1079,301	-2,0%	6,60						7,84	1078,471
2472+0.000	8,00	1077,917					-6,60	-2,0%	1079,113	1078,981	1077,609	1,37	792.525,780	8.176.128,815	1078,849	-2,0%	6,60						7,66	1078,142
2473+0.000	7,91	1077,522					-6,60	-2,0%	1078,661	1078,529	1077,377	1,15	792.543,366	8.176.138,342	1078,397	-2,0%	6,60						7,51	1077,788
2474+0.000	7,84	1077,118					-6,60	-2,0%	1078,209	1078,077	1077,120	0,96	792.560,951	8.176.147,868	1077,945	-2,0%	6,60						7,52	1077,330
2475+0.000	7,15	1077,127					-6,60	-2,0%	1077,756	1077,624	1076,701	0,92	792.578,536	8.176.157,395	1077,492	-2,0%	6,60						7,62	1076,814
2476+0.000	7,95	1076,141					-6,60	-2,0%	1077,304	1077,172	1075,714	1,46	792.596,121	8.176.166,922	1077,040	-2,0%	6,60						7,76	1076,265
2477+0.000	8,37	1075,407					-6,60	-2,0%	1076,852	1076,720	1075,251	1,47	792.613,707	8.176.176,448	1076,588	-2,0%	6,60						7,83	1075,769
2478+0.000	8,31	1074,993					-6,60	-2,0%	1076,400	1076,268	1074,770	1,50	792.631,292	8.176.185,975	1076,136	-2,0%	6,60						7,85	1075,302
2479+0.000	8,35	1074,515					-6,60	-2,0%	1075,948	1075,816	1074,337	1,48	792.648,877	8.176.195,502	1075,684	-2,0%	6,60						7,82	1074,869
2480+0.000	8,40	1074,031					-6,60	-2,0%	1075,496	1075,364	1073,926	1,44	792.666,463	8.176.205,028	1075,232	-2,0%	6,60						7,95	1074,334
2481+0.000	8,57	1073,467					-6,60	-2,0%	1075,044	1074,912	1073,477	1,43	792.684,048	8.176.214,555	1074,780	-2,0%	6,60						7,98	1073,858
2482+0.000	8,63	1072,973					-6,60	-2,0%	1074,591	1074,459	1072,992	1,47	792.701,633	8.176.224,082	1074,327	-2,0%	6,60						8,02	1073,378
2483+0.000	8,48	1072,620					-6,60	-2,0%	1074,139	1074,007	1072,674	1,33	792.719,219	8.176.233,608	1073,875	-2,0%	6,60						8,01	1072,937
2484+0.000	8,35	1072,259					-6,60	-2,0%	1073,687	1073,555	1072,191	1,36	792.736,804	8.176.243,135	1073,423	-2,0%	6,60						8,07	1072,444
2485+0.000	8,79	1071,512					-6,60	-2,0%	1073,235	1073,103	1071,570	1,53	792.754,389	8.176.252,662	1072,971	-2,0%	6,60						7,99	1072,042
2486+0.000	8,62	1071,172					-6,60	-2,0%	1072,783	1072,651	1071,168	1,48	792.771,974	8.176.262,189	1072,519	-2,0%	6,60						8,04	1071,562
2487+0.000	8,71	1070,661					-6,60	-2,0%	1072,331	1072,199	1070,697	1,50	792.789,560	8.176.271,715	1072,067	-2,0%	6,60						8,15	1071,034
2488+0.000	8,90	1070,127					-6,60	-1,3%	1071,835	1071,747	1070,303	1,44	792.807,145	8.176.281,242	1071,615	-2,0%	6,60						8,04	1070,653
2489+0.000	9,13	1069,707					-6,60	1,5%	1071,196	1071,294	1069,871	1,42	792.824,730	8.176.290,769	1071,162	-2,0%	6,60						8,09	1070,170
2490+0.000	9,39	1069,236					-6,60	3,8%	1070,591	1070,842	1069,374	1,47	792.842,430	8.176.300,080	1070,591	-3,8%	6,60						8,11	1069,585
2491+0.000	9,34	1068,815					-6,60	3,8%	1070,139	1070,390	1069,053	1,34	792.860,357	8.176.308,946	1070,139	-3,8%	6,60						8,01	1069,202
2492+0.000	8,84	1068,695					-6,60	3,8%	1069,687	1069,938	1068,722	1,22	792.878,500	8.176.317,361	1069,687	-3,8%	6,60						8,02	1068,739
2493+0.000	8,92	1068,192					-6,60	3,8%	1069,235	1069,486	1068,208	1,28	792.896,847	8.176.325,320	1069,235	-3,8%	6,60						7,97	1068,319
2494+0.000	9,81	1067,145					-6,60	3,8%	1068,783	1069,034	1067,680	1,35	792.915,388	8.176.332,818	1068,783	-3,8%	6,60						7,85	1067,953
2495+0.000	9,58	1066,850					-6,60	3,8%	1068,334	1068,585	1067,273	1,31	792.934,110	8.176.339,851	1068,334	-3,8%	6,60						7,87	1067,485
2496+0.000	9,32	1066,569					-6,60	3,4%	1067,933	1068,156	1066,987	1,17	792.953,003	8.176.346,413	1067,933	-3,4%	6,60						7,76	1067,163
2497+0.000	8,80	1066,319					-6,60	0,6%	1067,712	1067,749	1066,602	1,15	792.972,044	8.176.352,528	1067,617	-2,0%	6,60						7,76	1066,847
2498+0.000	8,54	1065,940					-6,60	-2,0%	1067,496	1067,364	1066,284	1,08	792.991,119	8.176.358,539	1067,232	-2,0%	6,60						7,72	1066,488
2499+0.000	8,56	1065,559					-6,60	-2,0%	1067,133	1067,001	1065,858	1,14	793.010,195	8.176.364,551	1066,869	-2,0%	6,60						7,89	1066,007
2500+0.000	8,72	1065,113					-6,60	-2,0%	1066,788	1066,656	1065,519	1,14	793.029,270	8.176.370,563	1066,524	-2,0%	6,60						7,77	1065,745



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2501+0.000	8,95	1064,616					-6,60	-2,0%	1066,445	1066,313	1065,140	1,17	793.048,345	8.176.376,574	1066,181	-2,0%	6,60						7,78	1065,394
2502+0.000	8,94	1064,278					-6,60	-2,0%	1066,102	1065,970	1064,783	1,19	793.067,420	8.176.382,586	1065,838	-2,0%	6,60						7,84	1065,011
2503+0.000	8,62	1064,152					-6,60	-2,0%	1065,759	1065,627	1064,393	1,23	793.086,495	8.176.388,598	1065,495	-2,0%	6,60						7,82	1064,680
2504+0.000	8,58	1063,833					-6,60	-2,0%	1065,416	1065,284	1064,069	1,22	793.105,570	8.176.394,609	1065,152	-2,0%	6,60						7,77	1064,371
2505+0.000	8,56	1063,505					-6,60	-2,0%	1065,074	1064,942	1063,628	1,31	793.124,645	8.176.400,621	1064,810	-2,0%	6,60						7,88	1063,954
2506+0.000	8,46	1063,228					-6,60	-2,0%	1064,731	1064,599	1063,290	1,31	793.143,720	8.176.406,633	1064,467	-2,0%	6,60						7,91	1063,597
2507+0.000	8,44	1062,895					-6,60	-2,0%	1064,388	1064,256	1062,844	1,41	793.162,796	8.176.412,644	1064,124	-2,0%	6,60						7,95	1063,221
2508+0.000	8,38	1062,596					-6,60	-2,0%	1064,045	1063,913	1062,526	1,39	793.181,871	8.176.418,656	1063,781	-2,0%	6,60						7,96	1062,873
2509+0.000	8,40	1062,237					-6,60	-2,0%	1063,702	1063,570	1062,306	1,26	793.200,946	8.176.424,667	1063,438	-2,0%	6,60						7,90	1062,573
2510+0.000	8,33	1061,942					-6,60	-2,0%	1063,359	1063,227	1061,984	1,24	793.220,021	8.176.430,679	1063,095	-2,0%	6,60						7,97	1062,182
2511+0.000	8,39	1061,560					-6,60	-2,0%	1063,017	1062,885	1061,540	1,35	793.239,096	8.176.436,691	1062,914	0,4%	6,60						8,37	1061,732
2512+0.000	8,29	1061,206					-6,60	-3,2%	1062,753	1062,542	1061,413	1,13	793.258,142	8.176.442,794	1062,753	3,2%	6,60						8,58	1061,430
2513+0.000	7,96	1061,030					-6,60	-4,0%	1062,463	1062,199	1061,167	1,03	793.277,022	8.176.449,391	1062,463	4,0%	6,60						8,68	1061,075
2514+0.000	7,63	1060,903					-6,60	-4,0%	1062,120	1061,856	1061,279	0,58	793.295,706	8.176.456,524	1062,120	4,0%	6,60						8,03	1061,167
2515+0.000	6,66	1061,311					-6,60	-4,0%	1061,777	1061,513	1060,045	1,47	793.314,178	8.176.464,189	1061,777	4,0%	6,60						7,24	1061,350
2516+0.000	6,75	1061,060					-6,60	-4,0%	1061,434	1061,170	1061,093	0,08	793.332,424	8.176.472,378	1061,434	4,0%	6,60						7,74	1060,677
2517+0.000	7,62	1059,886					-6,60	-4,0%	1061,092	1060,828	1060,059	0,77	793.350,428	8.176.481,085	1061,092	4,0%	6,60						8,50	1059,828
2518+0.000	7,45	1059,651					-6,60	-4,0%	1060,749	1060,485	1059,660	0,82	793.368,177	8.176.490,303	1060,749	4,0%	6,60						8,51	1059,473
2519+0.000	7,36	1059,374					-6,60	-4,0%	1060,406	1060,142	1059,303	0,84	793.385,654	8.176.500,024	1060,406	4,0%	6,60						8,18	1059,355
2520+0.000	7,38	1059,016					-6,60	-4,0%	1060,063	1059,799	1058,688	1,11	793.402,847	8.176.510,240	1060,063	4,0%	6,60						8,04	1059,104
2521+0.000	7,64	1058,499					-6,60	-4,0%	1059,720	1059,456	1058,365	1,09	793.419,742	8.176.520,944	1059,720	4,0%	6,60						8,06	1058,747
2522+0.000	7,86	1058,011					-6,60	-4,0%	1059,377	1059,113	1057,862	1,25	793.436,323	8.176.532,125	1059,377	4,0%	6,60						8,14	1058,348
2523+0.000	8,07	1057,526					-6,60	-4,0%	1059,035	1058,771	1057,653	1,12	793.452,578	8.176.543,776	1059,035	4,0%	6,60						8,30	1057,899
2524+0.000	8,21	1057,223					-6,60	-2,0%	1058,560	1058,428	1057,348	1,08	793.468,494	8.176.555,886	1058,532	1,6%	6,60						8,02	1057,583
2525+0.000	8,27	1056,838					-6,60	-2,0%	1058,217	1058,085	1057,040	1,05	793.484,239	8.176.568,219	1058,007	-1,2%	6,60						7,80	1057,208
2526+0.000	8,13	1056,593					-6,60	-2,0%	1057,874	1057,742	1056,659	1,08	793.499,984	8.176.580,552	1057,610	-2,0%	6,60						7,66	1056,907
2527+0.000	8,17	1056,222					-6,60	-2,0%	1057,531	1057,399	1056,188	1,21	793.515,728	8.176.592,885	1057,267	-2,0%	6,60						7,72	1056,521
2528+0.000	8,19	1055,866					-6,60	-2,0%	1057,188	1057,056	1055,794	1,26	793.531,473	8.176.605,218	1056,924	-2,0%	6,60						7,80	1056,125
2529+0.000	8,19	1055,522					-6,60	-2,0%	1056,845	1056,713	1055,445	1,27	793.547,218	8.176.617,551	1056,581	-2,0%	6,60						7,72	1055,838
2530+0.000	8,26	1055,133					-6,60	-2,0%	1056,503	1056,371	1055,099	1,27	793.562,963	8.176.629,884	1056,239	-2,0%	6,60						7,73	1055,484
2531+0.000	8,30	1054,762					-6,60	-2,0%	1056,160	1056,028	1054,769	1,26	793.578,707	8.176.642,217	1055,896	-2,0%	6,60						7,79	1055,103
2532+0.000	8,15	1054,519					-6,60	-2,0%	1055,817	1055,685	1054,413	1,27	793.594,452	8.176.654,550	1055,553	-2,0%	6,60						7,89	1054,691
2533+0.000	8,30	1054,077					-6,60	-2,0%	1055,474	1055,342	1053,979	1,36	793.610,197	8.176.666,883	1055,210	-2,0%	6,60						7,81	1054,402
2534+0.000	8,24	1053,774					-6,60	-2,0%	1055,131	1054,999	1053,750	1,25	793.625,942	8.176.679,216	1054,867	-2,0%	6,60						7,81	1054,064
2535+0.000	8,02	1053,578					-6,60	-2,0%	1054,788	1054,656	1053,596	1,06	793.641,686	8.176.691,549	1054,524	-2,0%	6,60						7,79	1053,729
2536+0.000	7,71	1053,443					-6,60	-2,0%	1054,446	1054,314	1053,177	1,14	793.657,431	8.176.703,882	1054,182	-2,0%	6,60						7,82	1053,367
2537+0.000	7,22	1053,425					-6,60	-2,0%	1054,103	1053,971	1053,064	0,91	793.673,176	8.176.716,215	1053,839	-2,0%	6,60						7,81	1053,034
2538+0.000	7,60	1052,829					-6,60	-2,0%	1053,760	1053,628	1052,507	1,12	793.688,921	8.176.728,548	1053,496	-2,0%	6,60						7,66	1052,789
2539+0.000	7,84	1052,325					-6,60	-2,0%	1053,417	1053,285	1052,195	1,09	793.704,665	8.176.740,881	1053,153	-2,0%	6,60						7,70	1052,421
2540+0.000	7,83	1051,990					-6,60	-2,0%	1053,074	1052,942	1051,835	1,11	793.720,410	8.176.753,214	1052,810	-2,0%	6,60						7,70	1052,074
2541+0.000	7,82	1051,657					-6,60	-2,0%	1052,731	1052,599	1051,423	1,18	793.736,155	8.176.765,547	1052,467	-2,0%	6,60						7,71	1051,727



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2542+0.000	7,87	1051,279					-6,60	-2,0%	1052,389	1052,257	1051,152	1,11	793.751,900	8.176.777,880	1052,125	-2,0%	6,60						7,57	1051,475
2543+0.000	7,79	1050,989					-6,60	-2,0%	1052,046	1051,914	1050,708	1,21	793.767,644	8.176.790,213	1051,782	-2,0%	6,60						7,45	1051,216
2544+0.000	7,69	1050,710					-6,60	-2,0%	1051,703	1051,571	1050,426	1,14	793.783,389	8.176.802,546	1051,439	-2,0%	6,60						7,41	1050,898
2545+0.000	7,63	1050,498					-6,60	-0,9%	1051,298	1051,241	1050,189	1,05	793.799,134	8.176.814,879	1051,109	-2,0%	6,60						7,42	1050,565
2546+0.000	8,11	1050,056					-6,60	1,9%	1050,804	1050,932	1049,847	1,09	793.814,882	8.176.827,208	1050,800	-2,0%	6,60						7,48	1050,217
2547+0.000	8,24	1049,800					-6,60	3,8%	1050,394	1050,645	1049,668	0,98	793.830,825	8.176.839,283	1050,394	-3,8%	6,60						7,26	1049,958
2548+0.000	8,43	1049,411					-6,60	3,8%	1050,129	1050,380	1049,343	1,04	793.847,064	8.176.850,956	1050,129	-3,8%	6,60						7,23	1049,709
2549+0.000	8,62	1049,041					-6,60	3,8%	1049,885	1050,136	1049,179	0,96	793.863,591	8.176.862,219	1049,885	-3,8%	6,60						7,10	1049,549
2550+0.000	8,95	1048,588					-6,60	3,8%	1049,650	1049,901	1048,965	0,94	793.880,393	8.176.873,066	1049,650	-3,8%	6,60						7,15	1049,287
2551+0.000	8,97	1048,338					-6,60	3,8%	1049,416	1049,667	1048,748	0,92	793.897,462	8.176.883,489	1049,416	-3,8%	6,60						7,15	1049,052
2552+0.000	8,89	1048,157					-6,60	3,8%	1049,181	1049,432	1048,589	0,84	793.914,786	8.176.893,482	1049,181	-3,8%	6,60						7,22	1048,770
2553+0.000	8,48	1048,195					-6,60	3,8%	1048,947	1049,198	1048,444	0,75	793.932,354	8.176.903,039	1048,947	-3,8%	6,60						7,16	1048,574
2554+0.000	8,41	1048,009					-6,60	3,8%	1048,712	1048,963	1048,272	0,69	793.950,155	8.176.912,155	1048,712	-3,8%	6,60						7,14	1048,355
2555+0.000	8,34	1047,821					-6,60	3,8%	1048,477	1048,728	1048,078	0,65	793.968,179	8.176.920,822	1048,477	-3,8%	6,60						7,05	1048,175
2556+0.000	8,50	1047,477					-6,60	3,8%	1048,243	1048,494	1047,758	0,74	793.986,414	8.176.929,036	1048,243	-3,8%	6,60						7,04	1047,947
2557+0.000	8,64	1047,149					-6,60	3,8%	1048,008	1048,259	1047,458	0,80	794.004,848	8.176.936,791	1048,008	-3,8%	6,60						7,17	1047,627
2558+0.000	8,24	1047,183					-6,60	3,8%	1047,774	1048,025	1047,092	0,93	794.023,471	8.176.944,083	1047,774	-3,8%	6,60						7,21	1047,369
2559+0.000	8,05	1047,077					-6,60	3,8%	1047,539	1047,790	1046,830	0,96	794.042,270	8.176.950,908	1047,539	-3,8%	6,60						7,33	1047,052
2560+0.000	8,07	1046,826					-6,60	3,8%	1047,305	1047,556	1046,403	1,15	794.061,234	8.176.957,260	1047,305	-3,8%	6,60						7,22	1046,888
2561+0.000	8,18	1046,517					-6,60	3,8%	1047,070	1047,321	1046,151	1,17	794.080,351	8.176.963,137	1047,070	-3,8%	6,60						7,44	1046,511
2562+0.000	8,13	1046,314					-6,60	3,8%	1046,835	1047,086	1046,040	1,05	794.099,608	8.176.968,533	1046,835	-3,8%	6,60						7,32	1046,354
2563+0.000	7,79	1046,125					-6,60	1,0%	1046,783	1046,852	1045,903	0,95	794.118,993	8.176.973,454	1046,720	-2,0%	6,60						7,46	1046,145
2564+0.000	7,37	1045,984					-6,60	-1,8%	1046,734	1046,617	1045,874	0,74	794.138,420	8.176.978,209	1046,485	-2,0%	6,60						7,46	1045,911
2565+0.000	7,49	1045,658					-6,60	-2,0%	1046,515	1046,383	1045,620	0,76	794.157,846	8.176.982,963	1046,251	-2,0%	6,60						7,48	1045,666
2566+0.000	7,45	1045,453					-6,60	-2,0%	1046,280	1046,148	1045,310	0,84	794.177,273	8.176.987,717	1046,016	-2,0%	6,60						7,52	1045,404
2567+0.000	7,58	1045,132					-6,60	-2,0%	1046,046	1045,914	1045,093	0,82	794.196,700	8.176.992,471	1045,782	-2,0%	6,60						7,47	1045,200
2568+0.000	7,54	1044,918					-6,60	-2,0%	1045,811	1045,679	1044,898	0,78	794.216,126	8.176.997,226	1045,547	-2,0%	6,60						7,52	1044,935
2569+0.000	7,38	1044,790					-6,60	-2,0%	1045,576	1045,444	1044,756	0,69	794.235,553	8.177.001,980	1045,312	-2,0%	6,60						7,30	1044,845
2570+0.000	7,87	1044,232					-6,60	-2,0%	1045,342	1045,210	1044,579	0,63	794.254,980	8.177.006,734	1045,078	-2,0%	6,60						7,63	1044,392
2571+0.000	6,84	1045,081					-6,60	-2,0%	1045,107	1044,975	1044,022	0,95	794.274,407	8.177.011,489	1044,843	-2,0%	6,60						7,62	1044,163
2572+0.000	7,63	1043,920					-6,60	-2,0%	1044,873	1044,741	1043,647	1,09	794.293,833	8.177.016,243	1044,609	-2,0%	6,60						7,60	1043,941
2573+0.000	7,63	1043,687					-6,60	-2,0%	1044,638	1044,506	1043,311	1,20	794.313,260	8.177.020,997	1044,374	-2,0%	6,60						7,66	1043,667
2574+0.000	7,69	1043,412					-6,60	-2,0%	1044,403	1044,271	1043,154	1,12	794.332,687	8.177.025,752	1044,139	-2,0%	6,60						7,75	1043,372
2575+0.000	7,61	1043,229					-6,60	-2,0%	1044,169	1044,037	1042,877	1,16	794.352,113	8.177.030,506	1043,905	-2,0%	6,60						7,58	1043,254
2576+0.000	7,59	1043,004					-6,60	-2,0%	1043,926	1043,794	1042,639	1,16	794.371,540	8.177.035,260	1043,662	-2,0%	6,60						7,59	1043,001
2577+0.000	7,62	1042,723					-6,60	-2,0%	1043,666	1043,534	1042,417	1,12	794.390,967	8.177.040,015	1043,402	-2,0%	6,60						7,55	1042,771
2578+0.000	7,55	1042,492					-6,60	-2,0%	1043,387	1043,255	1042,134	1,12	794.410,393	8.177.044,769	1043,123	-2,0%	6,60						7,57	1042,475
2579+0.000	7,59	1042,164					-6,60	-2,0%	1043,089	1042,957	1041,902	1,06	794.429,820	8.177.049,523	1042,825	-2,0%	6,60						7,47	1042,245
2580+0.000	7,50	1041,908					-6,60	-2,0%	1042,774	1042,642	1041,546	1,10	794.449,247	8.177.054,278	1042,510	-2,0%	6,60						7,55	1041,874
2581+0.000	7,55	1041,552					-6,60	-2,0%	1042,448	1042,316	1041,205	1,11	794.468,673	8.177.059,032	1042,184	-2,0%	6,60						7,38	1041,666
2582+0.000	7,37	1041,347					-6,60	-2,0%	1042,122	1041,990	1040,847	1,14	794.488,100	8.177.063,786	1041,858	-2,0%	6,60						7,31	1041,384



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8		9		
2583+0.000	7,44	1040,971					-6,60	-2,0%	1041,796	1041,664	1040,526	1,14	794.507,527	8.177.068,541	1041,532	-2,0%	6,60						7,26	1041,091
2584+0.000	7,58	1040,551					-6,60	-2,0%	1041,469	1041,337	1040,164	1,17	794.526,954	8.177.073,295	1041,205	-2,0%	6,60						7,24	1040,776
2585+0.000	7,51	1040,274					-6,60	-2,0%	1041,143	1041,011	1039,824	1,19	794.546,380	8.177.078,049	1040,879	-2,0%	6,60						7,21	1040,470
2586+0.000	7,66	1039,844					-6,60	-2,0%	1040,817	1040,685	1039,562	1,12	794.565,807	8.177.082,804	1040,553	-2,0%	6,60						7,28	1040,102
2587+0.000	7,59	1039,567					-6,60	-2,0%	1040,491	1040,359	1039,215	1,14	794.585,234	8.177.087,558	1040,227	-2,0%	6,60						7,21	1039,818
2588+0.000	7,77	1039,122					-6,60	-2,0%	1040,165	1040,033	1039,071	0,96	794.604,660	8.177.092,312	1039,901	-2,0%	6,60						7,25	1039,468
2589+0.000	7,86	1038,733					-6,60	-2,0%	1039,839	1039,707	1038,731	0,98	794.624,087	8.177.097,067	1039,575	-2,0%	6,60						7,23	1039,154
2590+0.000	7,94	1038,353					-6,60	-2,0%	1039,513	1039,381	1038,467	0,91	794.643,514	8.177.101,821	1039,249	-2,0%	6,60						7,37	1038,736
2591+0.000	7,99	1038,000					-6,60	-2,0%	1039,187	1039,055	1038,205	0,85	794.662,940	8.177.106,575	1038,923	-2,0%	6,60						7,35	1038,424
2592+0.000	7,90	1037,729					-6,60	-2,0%	1038,861	1038,729	1037,895	0,83	794.682,367	8.177.111,329	1038,597	-2,0%	6,60						7,33	1038,108
2593+0.000	8,20	1037,202					-6,60	-2,0%	1038,535	1038,403	1037,547	0,86	794.701,794	8.177.116,084	1038,271	-2,0%	6,60						7,40	1037,738
2594+0.000	8,02	1036,999					-6,60	-2,0%	1038,209	1038,077	1037,286	0,79	794.721,220	8.177.120,838	1037,945	-2,0%	6,60						7,42	1037,402
2595+0.000	8,03	1036,666					-6,60	-2,0%	1037,883	1037,751	1036,893	0,86	794.740,647	8.177.125,592	1037,619	-2,0%	6,60						7,44	1037,057
2596+0.000	8,15	1036,260					-6,60	-2,0%	1037,557	1037,425	1036,630	0,79	794.760,074	8.177.130,347	1037,293	-2,0%	6,60						7,53	1036,676
2597+0.000	8,86	1035,544					-6,60	-0,7%	1037,146	1037,099	1036,253	0,85	794.779,501	8.177.135,101	1036,967	-2,0%	6,60						7,55	1036,336
2598+0.000	8,96	1035,336					-6,60	2,1%	1036,634	1036,773	1035,859	0,91	794.798,930	8.177.139,845	1036,634	-2,1%	6,60						7,61	1035,958
2599+0.000	9,14	1035,002					-6,60	3,8%	1036,196	1036,447	1035,508	0,94	794.818,437	8.177.144,255	1036,196	-3,8%	6,60						7,41	1035,655
2600+0.000	9,04	1034,747					-6,60	3,8%	1035,870	1036,121	1035,213	0,91	794.838,048	8.177.148,177	1035,870	-3,8%	6,60						7,44	1035,310
2601+0.000	8,97	1034,469					-6,60	3,8%	1035,544	1035,795	1034,832	0,96	794.857,751	8.177.151,607	1035,544	-3,8%	6,60						7,55	1034,913
2602+0.000	8,97	1034,063					-6,60	2,6%	1035,295	1035,469	1034,427	1,04	794.877,534	8.177.154,543	1035,295	-2,6%	6,60						7,85	1034,465
2603+0.000	8,55	1033,830					-6,60	-0,2%	1035,156	1035,143	1034,031	1,11	794.897,373	8.177.157,076	1035,011	-2,0%	6,60						7,93	1034,127
2604+0.000	8,51	1033,410					-6,60	-2,0%	1034,945	1034,813	1033,723	1,09	794.917,217	8.177.159,570	1034,681	-2,0%	6,60						7,98	1033,762
2605+0.000	8,64	1032,967					-6,60	-2,0%	1034,592	1034,460	1033,327	1,13	794.937,061	8.177.162,064	1034,328	-2,0%	6,60						7,94	1033,436
2606+0.000	8,58	1032,626					-6,60	-2,0%	1034,210	1034,078	1032,886	1,19	794.956,905	8.177.164,557	1033,946	-2,0%	6,60						8,14	1032,918
2607+0.000	8,66	1032,163					-6,60	-2,0%	1033,801	1033,669	1032,485	1,18	794.976,749	8.177.167,051	1033,537	-2,0%	6,60						7,99	1032,608
2608+0.000	8,54	1031,808					-6,60	-2,0%	1033,365	1033,233	1032,087	1,15	794.996,592	8.177.169,545	1033,101	-2,0%	6,60						8,14	1032,071
2609+0.000	8,35	1031,473					-6,60	-2,0%	1032,905	1032,773	1031,623	1,15	795.016,436	8.177.172,039	1032,641	-2,0%	6,60						8,11	1031,636
2610+0.000	8,21	1031,107					-6,60	-2,0%	1032,442	1032,310	1031,161	1,15	795.036,280	8.177.174,533	1032,178	-2,0%	6,60						8,03	1031,224
2611+0.000	7,80	1030,915					-6,60	-2,0%	1031,978	1031,846	1030,851	0,99	795.056,124	8.177.177,027	1031,714	-2,0%	6,60						8,07	1030,735
2612+0.000	7,38	1030,731					-6,60	-2,0%	1031,515	1031,383	1030,490	0,89	795.075,968	8.177.179,521	1031,251	-2,0%	6,60						7,79	1030,461
2613+0.000	7,19	1031,375					-6,60	-2,0%	1031,052	1030,920	1031,538	-0,62	795.095,812	8.177.182,015	1030,788	-2,0%	6,60						6,95	1031,137
2614+0.000	8,05	1029,360					-6,60	-2,0%	1030,588	1030,456	1029,796	0,66	795.115,656	8.177.184,509	1030,324	-2,0%	6,60						7,43	1029,770
2615+0.000	8,59	1028,533					-6,60	-2,0%	1030,125	1029,993	1028,794	1,20	795.135,500	8.177.187,003	1029,861	-2,0%	6,60						8,02	1028,913
2616+0.000	8,63	1028,046					-6,60	-2,0%	1029,662	1029,530	1028,348	1,18	795.155,344	8.177.189,497	1029,398	-2,0%	6,60						8,01	1028,460
2617+0.000	8,72	1027,524					-6,60	-2,0%	1029,198	1029,066	1027,897	1,17	795.175,187	8.177.191,991	1028,934	-2,0%	6,60						8,03	1027,979
2618+0.000	8,93	1026,917					-6,60	-2,0%	1028,735	1028,603	1027,250	1,35	795.195,031	8.177.194,485	1028,471	-2,0%	6,60						8,17	1027,422
2619+0.000	8,29	1026,884					-6,60	-2,0%	1028,272	1028,140	1026,820	1,32	795.214,875	8.177.196,979	1028,008	-2,0%	6,60						8,16	1026,966
2620+0.000	8,68	1026,158					-6,60	-2,0%	1027,809	1027,677	1026,303	1,37	795.234,719	8.177.199,473	1027,545	-2,0%	6,60						8,16	1026,505
2621+0.000	8,69	1025,686					-6,60	-2,0%	1027,345	1027,213	1025,955	1,26	795.254,563	8.177.201,967	1027,158	-0,8%	6,60						8,36	1025,989
2622+0.000	8,38	1025,431					-6,60	-2,0%	1026,882	1026,750	1025,340	1,41	795.274,406	8.177.204,468	1026,881	2,0%	6,60						8,67	1025,502
2623+0.000	8,35	1024,866					-6,60	-3,8%	1026,538	1026,287	1024,997	1,29	795.294,205	8.177.207,292	1026,538	3,8%	6,60						8,84	1025,047



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9															
2624+0.000	8,33	1024,419					-6,60	-3,8%	1026,074	1025,823	1024,476	1,35	795.313,928	8.177.210,610	1026,074	3,8%	6,60						8,87	1024,564
2625+0.000	8,31	1023,967					-6,60	-3,8%	1025,611	1025,360	1024,080	1,28	795.333,561	8.177.214,420	1025,611	3,8%	6,60						8,74	1024,184
2626+0.000	8,30	1023,511					-6,60	-3,8%	1025,148	1024,897	1023,738	1,16	795.353,093	8.177.218,719	1025,148	3,8%	6,60						8,65	1023,778
2627+0.000	8,10	1023,181					-6,60	-3,8%	1024,684	1024,433	1023,339	1,09	795.372,511	8.177.223,506	1024,684	3,8%	6,60						8,72	1023,272
2628+0.000	8,08	1022,735					-6,60	-3,8%	1024,221	1023,970	1022,933	1,04	795.391,803	8.177.228,776	1024,221	3,8%	6,60						8,65	1022,857
2629+0.000	7,91	1022,480					-6,60	-2,3%	1023,657	1023,507	1022,610	0,90	795.410,958	8.177.234,527	1023,657	2,3%	6,60						8,42	1022,444
2630+0.000	8,01	1021,986					-6,60	-2,0%	1023,189	1023,057	1022,218	0,84	795.430,005	8.177.240,629	1023,021	-0,5%	6,60						7,95	1022,124
2631+0.000	7,99	1021,590					-6,60	-2,0%	1022,779	1022,647	1021,843	0,80	795.449,046	8.177.246,747	1022,515	-2,0%	6,60						7,73	1021,764
2632+0.000	7,77	1021,367					-6,60	-2,0%	1022,409	1022,277	1021,510	0,77	795.468,087	8.177.252,866	1022,145	-2,0%	6,60						7,65	1021,448
2633+0.000	7,77	1021,037					-6,60	-2,0%	1022,079	1021,947	1021,159	0,79	795.487,128	8.177.258,985	1021,815	-2,0%	6,60						7,60	1021,147
2634+0.000	7,74	1020,769					-6,60	-2,0%	1021,790	1021,658	1020,883	0,77	795.506,169	8.177.265,103	1021,526	-2,0%	6,60						7,67	1020,810
2635+0.000	7,75	1020,513					-6,60	-2,0%	1021,541	1021,409	1020,544	0,87	795.525,210	8.177.271,222	1021,277	-2,0%	6,60						7,88	1020,427
2636+0.000	7,87	1020,210					-6,60	-2,0%	1021,319	1021,187	1020,300	0,89	795.544,251	8.177.277,340	1021,055	-2,0%	6,60						7,98	1020,136
2637+0.000	7,80	1020,032					-6,60	-2,0%	1021,097	1020,965	1020,022	0,94	795.563,292	8.177.283,459	1020,833	-2,0%	6,60						7,84	1020,005
2638+0.000	7,90	1019,747					-6,60	-2,0%	1020,876	1020,744	1019,762	0,98	795.582,333	8.177.289,578	1020,612	-2,0%	6,60						8,01	1019,674
2639+0.000	7,85	1019,560					-6,60	-2,0%	1020,654	1020,522	1019,521	1,00	795.601,374	8.177.295,696	1020,390	-2,0%	6,60						8,03	1019,437
2640+0.000	8,06	1019,195					-6,60	-2,0%	1020,433	1020,301	1019,676	0,63	795.620,415	8.177.301,815	1020,169	-2,0%	6,60						8,08	1019,186
2641+0.000	7,95	1019,050					-6,60	-2,0%	1020,211	1020,079	1019,110	0,97	795.639,457	8.177.307,933	1019,947	-2,0%	6,60						6,82	1020,163
2642+0.000	7,62	1019,047					-6,60	-2,0%	1019,990	1019,858	1019,062	0,80	795.658,498	8.177.314,052	1019,726	-2,0%	6,60						6,89	1019,533
2643+0.000	7,84	1018,675					-6,60	-2,0%	1019,769	1019,637	1019,432	0,20	795.677,539	8.177.320,171	1019,505	-2,0%	6,60						6,90	1019,302
2644+0.000	7,93	1018,398					-6,60	-2,0%	1019,547	1019,415	1018,409	1,01	795.696,580	8.177.326,289	1019,283	-2,0%	6,60						8,14	1018,257
2645+0.000	7,90	1018,196					-6,60	-2,0%	1019,326	1019,194	1018,152	1,04	795.715,621	8.177.332,408	1019,062	-2,0%	6,60						8,12	1018,047
2646+0.000	7,82	1018,028					-6,60	-2,0%	1019,104	1018,972	1017,973	1,00	795.734,662	8.177.338,527	1018,840	-2,0%	6,60						7,97	1017,929
2647+0.000	8,01	1017,680					-6,60	-2,0%	1018,883	1018,751	1017,743	1,01	795.753,703	8.177.344,645	1018,619	-2,0%	6,60						8,07	1017,636
2648+0.000	7,99	1017,468					-6,60	-2,0%	1018,661	1018,529	1017,481	1,05	795.772,744	8.177.350,764	1018,397	-2,0%	6,60						7,94	1017,506
2649+0.000	8,04	1017,213					-6,60	-2,0%	1018,440	1018,308	1017,361	0,95	795.791,785	8.177.356,882	1018,176	-2,0%	6,60						7,88	1017,322
2650+0.000	7,96	1017,051					-6,60	-2,0%	1018,218	1018,086	1017,134	0,95	795.810,826	8.177.363,001	1017,954	-2,0%	6,60						7,89	1017,095
2651+0.000	7,90	1016,863					-6,60	-2,0%	1017,997	1017,865	1016,917	0,95	795.829,867	8.177.369,120	1017,733	-2,0%	6,60						7,84	1016,909
2652+0.000	7,76	1016,741					-6,60	-2,0%	1017,775	1017,643	1016,666	0,98	795.848,908	8.177.375,238	1017,511	-2,0%	6,60						7,87	1016,668
2653+0.000	7,71	1016,547					-6,60	-2,0%	1017,554	1017,422	1016,439	0,98	795.867,949	8.177.381,357	1017,290	-2,0%	6,60						7,82	1016,478
2654+0.000	7,80	1016,272					-6,60	-2,0%	1017,332	1017,200	1016,278	0,92	795.886,991	8.177.387,475	1017,068	-2,0%	6,60						7,82	1016,258
2655+0.000	7,75	1016,083					-6,60	-2,0%	1017,111	1016,979	1015,994	0,99	795.906,032	8.177.393,594	1016,847	-2,0%	6,60						7,81	1016,040
2656+0.000	7,86	1015,796					-6,60	-2,0%	1016,889	1016,757	1015,761	1,00	795.925,073	8.177.399,713	1016,625	-2,0%	6,60						7,94	1015,735
2657+0.000	7,81	1015,599					-6,60	-2,0%	1016,668	1016,536	1015,604	0,93	795.944,114	8.177.405,831	1016,404	-2,0%	6,60						7,87	1015,556
2658+0.000	7,83	1015,359					-6,60	-2,0%	1016,446	1016,314	1015,225	1,09	795.963,155	8.177.411,950	1016,182	-2,0%	6,60						7,99	1015,255
2659+0.000	7,95	1015,059					-6,60	-2,0%	1016,225	1016,093	1014,986	1,11	795.982,196	8.177.418,069	1015,961	-2,0%	6,60						8,03	1015,011
2660+0.000	8,06	1014,763					-6,60	-2,0%	1016,003	1015,871	1014,718	1,15	796.001,237	8.177.424,187	1015,739	-2,0%	6,60						8,05	1014,775
2661+0.000	8,20	1014,437					-6,60	-2,0%	1015,770	1015,638	1014,284	1,35	796.020,278	8.177.430,306	1015,506	-2,0%	6,60						8,30	1014,376
2662+0.000	7,96	1014,411					-6,60	-0,9%	1015,440	1015,379	1014,144	1,24	796.039,319	8.177.436,424	1015,247	-2,0%	6,60						8,22	1014,165
2663+0.000	8,27	1014,106					-6,60	1,9%	1014,971	1015,096	1013,904	1,19	796.058,362	8.177.442,539	1014,964	-2,0%	6,60						8,14	1013,938
2664+0.000	8,72	1013,627					-6,60	3,8%	1014,537	1014,788	1013,373	1,41	796.077,496	8.177.448,356	1014,537	-3,8%	6,60						6,61	1014,534



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
2665+0.000	8,72	1013,293					-6,60	3,8%	1014,204	1014,455	1013,197	1,26	796.096,771	8.177.453,692	1014,204	-3,8%	6,60						8,39	1013,014
2666+0.000	8,88	1012,827					-6,60	3,8%	1013,847	1014,098	1013,662	0,44	796.116,172	8.177.458,546	1013,847	-3,8%	6,60						6,60	1013,844
2667+0.000	8,88	1012,461					-6,60	3,8%	1013,477	1013,728	1012,568	1,16	796.135,689	8.177.462,913	1013,477	-3,8%	6,60						7,74	1012,716
2668+0.000	9,10	1011,940					-6,60	3,8%	1013,106	1013,357	1012,330	1,03	796.155,309	8.177.466,790	1013,106	-3,8%	6,60						7,81	1012,299
2669+0.000	9,18	1011,519					-6,60	3,8%	1012,736	1012,987	1012,005	0,98	796.175,020	8.177.470,176	1012,736	-3,8%	6,60						7,87	1011,891
2670+0.000	9,16	1011,164					-6,60	3,8%	1012,366	1012,617	1011,574	1,04	796.194,809	8.177.473,068	1012,366	-3,8%	6,60						7,80	1011,566
2671+0.000	9,31	1010,694					-6,60	3,8%	1011,996	1012,247	1011,086	1,16	796.214,665	8.177.475,465	1011,996	-3,8%	6,60						7,97	1011,084
2672+0.000	9,10	1010,460					-6,60	3,8%	1011,625	1011,876	1010,821	1,05	796.234,574	8.177.477,364	1011,625	-3,8%	6,60						7,94	1010,735
2673+0.000	8,90	1010,225					-6,60	3,8%	1011,255	1011,506	1010,397	1,11	796.254,524	8.177.478,765	1011,255	-3,8%	6,60						7,97	1010,343
2674+0.000	9,36	1009,430					-6,60	2,1%	1011,000	1011,136	1009,746	1,39	796.274,503	8.177.479,667	1011,000	-2,1%	6,60						8,24	1009,904
2675+0.000	8,86	1009,208					-6,60	-0,8%	1010,816	1010,766	1009,371	1,39	796.294,495	8.177.480,233	1010,634	-2,0%	6,60						8,44	1009,405
2676+0.000	9,13	1008,578					-6,60	-2,0%	1010,527	1010,395	1008,863	1,53	796.314,487	8.177.480,789	1010,263	-2,0%	6,60						8,45	1009,030
2677+0.000	8,52	1008,616					-6,60	-2,0%	1010,157	1010,025	1008,547	1,48	796.334,480	8.177.481,346	1009,893	-2,0%	6,60						8,44	1008,668
2678+0.000	8,55	1008,223					-6,60	-2,0%	1009,787	1009,655	1008,217	1,44	796.354,472	8.177.481,902	1009,523	-2,0%	6,60						8,63	1008,171
2679+0.000	8,85	1007,652					-6,60	-2,0%	1009,417	1009,285	1007,906	1,38	796.374,464	8.177.482,459	1009,153	-2,0%	6,60						8,68	1007,767
2680+0.000	9,02	1007,171					-6,60	-2,0%	1009,046	1008,914	1007,531	1,38	796.394,456	8.177.483,015	1008,782	-2,0%	6,60						8,48	1007,527
2681+0.000	9,03	1006,789					-6,60	-2,0%	1008,676	1008,544	1007,104	1,44	796.414,449	8.177.483,572	1008,412	-2,0%	6,60						8,50	1007,147
2682+0.000	9,12	1006,364					-6,60	-2,0%	1008,306	1008,174	1006,821	1,35	796.434,441	8.177.484,128	1008,042	-2,0%	6,60						8,54	1006,747
2683+0.000	9,02	1006,060					-6,60	-2,0%	1007,936	1007,804	1006,351	1,45	796.454,433	8.177.484,685	1007,672	-2,0%	6,60						8,41	1006,462
2684+0.000	8,73	1005,884					-6,60	-2,0%	1007,565	1007,433	1006,033	1,40	796.474,426	8.177.485,241	1007,301	-2,0%	6,60						8,45	1006,069
2685+0.000	8,91	1005,392					-6,60	-2,0%	1007,195	1007,063	1005,672	1,39	796.494,418	8.177.485,798	1006,931	-2,0%	6,60						8,46	1005,691
2686+0.000	8,71	1005,152					-6,60	-2,0%	1006,825	1006,693	1005,484	1,21	796.514,410	8.177.486,354	1006,561	-2,0%	6,60						8,37	1005,384
2687+0.000	8,48	1004,937					-6,60	-2,0%	1006,455	1006,323	1005,014	1,31	796.534,402	8.177.486,911	1006,191	-2,0%	6,60						8,42	1004,980
2688+0.000	8,28	1004,701					-6,60	-2,0%	1006,084	1005,952	1004,695	1,26	796.554,395	8.177.487,467	1005,820	-2,0%	6,60						8,32	1004,673
2689+0.000	7,94	1004,560					-6,60	-2,0%	1005,714	1005,582	1004,532	1,05	796.574,387	8.177.488,024	1005,450	-2,0%	6,60						8,22	1004,368
2690+0.000	7,66	1004,373					-6,60	-2,0%	1005,344	1005,212	1004,162	1,05	796.594,379	8.177.488,580	1005,080	-2,0%	6,60						8,09	1004,087
2691+0.000	8,76	1003,268					-6,60	-2,0%	1004,974	1004,842	1003,485	1,36	796.614,371	8.177.489,137	1004,710	-2,0%	6,60						8,15	1003,677
2692+0.000	8,54	1003,050					-6,60	-2,0%	1004,603	1004,471	1003,357	1,11	796.634,364	8.177.489,693	1004,339	-2,0%	6,60						8,04	1003,380
2693+0.000	8,40	1002,769					-6,60	-2,0%	1004,233	1004,101	1003,085	1,02	796.654,356	8.177.490,250	1003,969	-2,0%	6,60						7,90	1003,102
2694+0.000	8,51	1002,327					-6,60	-2,0%	1003,863	1003,731	1002,675	1,06	796.674,348	8.177.490,806	1003,599	-2,0%	6,60						7,88	1002,749
2695+0.000	7,90	1002,364					-6,60	-2,0%	1003,493	1003,361	1002,429	0,93	796.694,340	8.177.491,362	1003,229	-2,0%	6,60						7,80	1002,428
2696+0.000	8,20	1001,802					-6,60	-2,0%	1003,135	1003,003	1002,043	0,96	796.714,333	8.177.491,919	1002,871	-2,0%	6,60						7,78	1002,085
2697+0.000	7,92	1001,657					-6,60	-2,0%	1002,803	1002,671	1001,690	0,98	796.734,325	8.177.492,475	1002,539	-2,0%	6,60						7,80	1001,737
2698+0.000	8,04	1001,270					-6,60	-2,0%	1002,496	1002,364	1001,561	0,80	796.754,317	8.177.493,032	1002,232	-2,0%	6,60						7,44	1001,671
2699+0.000	7,94	1001,056					-6,60	-2,0%	1002,216	1002,084	1001,140	0,94	796.774,309	8.177.493,588	1001,952	-2,0%	6,60						7,64	1001,259
2700+0.000	7,94	1000,807					-6,60	-2,0%	1001,961	1001,829	1000,943	0,89	796.794,302	8.177.494,145	1001,697	-2,0%	6,60						7,51	1001,092
2701+0.000	7,82	1000,653					-6,60	-2,0%	1001,732	1001,600	1000,765	0,84	796.814,294	8.177.494,701	1001,468	-2,0%	6,60						7,63	1000,782
2702+0.000	8,34	1000,092					-6,60	-2,0%	1001,517	1001,385	1000,570	0,81	796.834,286	8.177.495,258	1001,253	-2,0%	6,60						7,65	1000,553
2703+0.000	7,77	1000,258					-6,60	-2,0%	1001,301	1001,169	1000,351	0,82	796.854,278	8.177.495,814	1001,120	-0,8%	6,60						7,82	1000,305
2704+0.000	8,31	999,678					-6,60	-2,1%	1001,088	1000,953	1000,142	0,81	796.874,270	8.177.496,376	1001,088	2,1%	6,60						8,07	1000,107
2705+0.000	8,03	999,509					-6,60	-4,2%	1001,015	1000,738	999,655	1,08	796.894,247	8.177.497,328	1001,015	4,2%	6,60						8,30	999,879



Notas-de-Serviço de Terraplenagem

Alinhamento: Estrada Chapada das Covas

Estaca	Offset		Berma				Bordo Esquerdo			Eixo				Bordo Direito			Berma				Offset			
	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	dist (m)	cota terrapl	dist (m)	cota terrapl	dist (m)	cota terrapl	
	1		2		3		4					5			6			7		8			9	
2706+0.000	7,84	999,419					-6,60	-4,2%	1000,799	1000,522	999,750	0,77	796.914,184	8.177.498,903	1000,799	4,2%	6,60						8,19	999,737
2707+0.000	7,64	999,340					-6,60	-4,2%	1000,584	1000,307	999,485	0,82	796.934,062	8.177.501,101	1000,584	4,2%	6,60						8,16	999,543
2708+0.000	6,98	999,563					-6,60	-4,2%	1000,368	1000,091	999,160	0,93	796.953,862	8.177.503,918	1000,368	4,2%	6,60						8,06	999,396
2709+0.000	7,33	999,113					-6,60	-4,2%	1000,152	999,875	999,107	0,77	796.973,564	8.177.507,353	1000,152	4,2%	6,60						8,18	999,100
2710+0.000	7,40	998,851					-6,60	-4,2%	999,937	999,660	998,735	0,92	796.993,149	8.177.511,401	999,937	4,2%	6,60						8,43	998,718
2711+0.000	7,39	998,642					-6,60	-4,2%	999,721	999,444	998,580	0,86	797.012,598	8.177.516,060	999,721	4,2%	6,60						8,72	998,308
2712+0.000	7,31	998,477					-6,60	-4,2%	999,506	999,229	998,312	0,92	797.031,892	8.177.521,324	999,506	4,2%	6,60						8,74	998,079
2713+0.000	7,47	998,157					-6,60	-4,2%	999,290	999,013	998,107	0,91	797.051,012	8.177.527,188	999,290	4,2%	6,60						8,74	997,865
2714+0.000	7,52	997,909					-6,60	-4,2%	999,075	998,798	997,856	0,94	797.069,940	8.177.533,647	999,075	4,2%	6,60						8,54	997,780
2715+0.000	7,51	997,683					-6,60	-4,2%	998,841	998,564	997,538	1,03	797.088,656	8.177.540,694	998,841	4,2%	6,60						8,51	997,571
2716+0.000	7,54	997,389					-6,60	-4,2%	998,567	998,290	997,008	1,28	797.107,143	8.177.548,322	998,567	4,2%	6,60						8,42	997,352
2717+0.000	7,58	997,048					-6,60	-4,2%	998,253	997,976	996,681	1,29	797.125,383	8.177.556,525	998,253	4,2%	6,60						8,23	997,169
2718+0.000	7,57	996,702					-6,60	-4,2%	997,900	997,623	996,709	0,91	797.143,358	8.177.565,293	997,900	4,2%	6,60						8,10	996,901
2719+0.000	7,54	996,325					-6,60	-4,2%	997,507	997,230	996,306	0,92	797.161,050	8.177.574,618	997,507	4,2%	6,60						7,96	996,601
2720+0.000	7,42	995,989					-6,60	-4,2%	997,093	996,816	996,103	0,71	797.178,441	8.177.584,492	997,093	4,2%	6,60						7,91	996,218
2721+0.000	7,28	995,820					-6,60	-2,0%	996,534	996,402	995,763	0,64	797.195,516	8.177.594,904	996,533	2,0%	6,60						7,70	995,798
2722+0.000	7,23	995,436					-6,60	-2,0%	996,119	995,987	995,449	0,54	797.212,393	8.177.605,636	995,933	-0,8%	6,60						7,23	995,516
2723+0.000	6,93	995,222					-6,60	-2,0%	995,705	995,573	995,212	0,36	797.229,268	8.177.616,370	995,441	-2,0%	6,60						6,92	995,225
2724+0.000	6,90	994,830					-6,60	-2,0%	995,291	995,159	994,710	0,45	797.246,144	8.177.627,105	995,027	-2,0%	6,60						7,04	994,731
2725+0.000	6,68	994,694					-6,60	-2,0%	994,876	994,744	994,689	0,06	797.263,019	8.177.637,840	994,612	-2,0%	6,60						6,63	994,638
2726+0.000	6,83	994,427					-6,60	-2,0%	994,462	994,330	994,117	0,21	797.279,894	8.177.648,574	994,198	-2,0%	6,60						6,81	990,406
2727+0.000	6,72	993,706					-6,60	-2,0%	994,048	993,916	993,504	0,41	797.296,769	8.177.659,309	993,784	-2,0%	6,60						6,85	993,617
2728+0.000	6,74	993,277					-6,60	-2,0%	993,633	993,501	993,087	0,41	797.313,644	8.177.670,043	993,369	-2,0%	6,60						6,84	993,210
2729+0.000	6,75	992,859					-6,60	-2,0%	993,219	993,087	992,938	0,15	797.330,519	8.177.680,778	992,955	-2,0%	6,60						6,66	993,016
2730+0.000	6,82	992,396					-6,60	-2,0%	992,805	992,673	992,425	0,25	797.347,394	8.177.691,512	992,541	-2,0%	6,60						6,66	992,502
2731+0.000	6,70	992,217					-6,60	-2,0%	992,383	992,251	992,138	0,11	797.364,269	8.177.702,247	992,119	-2,0%	6,60						6,65	992,171
2732+0.000	6,63	991,651					-6,60	-2,0%	991,934	991,802	991,614	0,19	797.381,144	8.177.712,982	991,670	-2,0%	6,60						6,64	990,171
2733+0.000	6,77	991,360					-6,60	-2,0%	991,457	991,325	991,122	0,20	797.398,019	8.177.723,716	991,193	-2,0%	6,60						6,61	991,205
2734+0.000	6,73	990,824					-6,60	-2,0%	990,954	990,822	990,720	0,10	797.414,895	8.177.734,451	990,690	-2,0%	6,60						6,66	990,747
2735+0.000	6,72	990,081					-6,60	-2,0%	990,422	990,290	989,970	0,32	797.431,770	8.177.745,185	990,158	-2,0%	6,60						6,90	989,957
2736+0.000	6,75	989,747					-6,60	-2,0%	989,864	989,732	989,471	0,26	797.448,645	8.177.755,920	989,600	-2,0%	6,60						6,90	989,398
2737+0.000	6,77	989,185					-6,60	-2,0%	989,278	989,146	989,106	0,04	797.465,520	8.177.766,654	989,014	-2,0%	6,60						6,64	989,049
2738+0.000	7,11	988,913					-6,60	-2,0%	988,664	988,532	988,527	0,00	797.482,395	8.177.777,389	988,400	-2,0%	6,60						6,61	988,408
2739+0.000	7,33	988,499					-6,60	-2,0%	988,031	987,899	988,197	-0,30	797.499,270	8.177.788,124	987,767	-2,0%	6,60						6,83	987,995
2740+0.000	7,64	988,168					-6,60	-2,0%	987,397	987,265	987,778	-0,51	797.516,145	8.177.798,858	987,133	-2,0%	6,60						6,95	987,480
2741+0.000	7,50	987,401					-6,60	-2,0%	986,763	986,631	986,961	-0,33	797.533,020	8.177.809,593	986,499	-2,0%	6,60						6,92	986,820
2742+0.000	7,58	986,844					-6,60	-2,0%	986,129	985,997	986,416	-0,42	797.549,895	8.177.820,327	985,865	-2,0%	6,60						6,66	985,925
2743+0.000	8,20	986,834					-6,60	-2,0%	985,495	985,363	985,977	-0,61	797.566,770	8.177.831,062	985,231	-2,0%	6,60						6,69	985,320
2744+0.000	8,20	986,834					6,60	0,0%	984,748	984,745	985,851	-1,11	797.566,770	8.177.831,062	984,611	-2,0%	6,60						6,69	985,320



Notas-de-Serviço de Terraplenagem

Alinhamento: Interseção GO-437

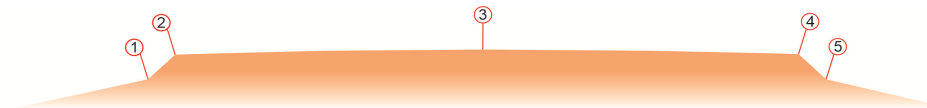
Estaca	Offset		Bordo Esquerdo			Eixo					Bordo Direito			Offset	
	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	cota	dist (m)
	1		2			3					4			5	
0+0.000	5,48	1051,345	5,10	2,0%	1051,173	1051,071	1051,350	-0,28	750.326,909	8.180.920,654	1050,939	-2,0%	6,60	1051,267	6,93
1+0.000	5,31	1051,273	5,10	2,0%	1051,263	1051,161	1051,206	-0,04	750.327,381	8.180.900,660	1051,029	-2,0%	6,60	1051,121	6,69
2+0.000	5,14	1051,121	5,10	2,0%	1051,353	1051,251	1051,085	0,17	750.327,852	8.180.880,665	1051,119	-2,0%	6,60	1051,056	6,70
3+0.000	5,33	1051,083	5,10	2,0%	1051,443	1051,341	1051,068	0,27	750.328,324	8.180.860,671	1051,209	-2,0%	6,60	1051,052	6,84
4+0.000	5,33	1051,174	5,10	2,0%	1051,534	1051,432	1051,189	0,24	750.328,852	8.180.840,678	1051,300	-2,0%	6,60	1051,142	6,84
5+0.000	5,33	1051,264	5,10	2,0%	1051,624	1051,522	1051,033	0,49	750.330,602	8.180.820,761	1051,390	-2,0%	6,60	1051,233	6,84
6+0.000	5,33	1051,354	5,10	2,0%	1051,714	1051,612	1050,971	0,64	750.334,024	8.180.801,062	1051,480	-2,0%	6,60	1051,323	6,84
7+0.000	5,33	1051,444	5,10	2,0%	1051,804	1051,702	1050,885	0,82	750.339,095	8.180.781,721	1051,570	-2,0%	6,60	1051,413	6,84
8+0.000	8,55	1051,359	8,10	2,0%	1051,955	1051,793	1050,958	0,83	750.345,569	8.180.762,800	1051,661	-2,0%	6,60	1050,441	8,43
9+0.000	8,49	1051,493	8,10	2,0%	1052,045	1051,883	1051,094	0,79	750.352,233	8.180.743,943	1051,751	-2,0%	6,60	1050,598	8,33
10+0.000	8,66	1051,460	8,10	2,0%	1052,135	1051,973	1051,165	0,81	750.358,896	8.180.725,086	1051,841	-2,0%	6,60	1050,788	8,18
11+0.000	8,89	1051,391	8,10	2,0%	1052,226	1052,064	1051,070	0,99	750.365,560	8.180.706,228	1051,932	-2,0%	6,60	1050,682	8,47
12+0.000	8,83	1051,211	7,65	2,0%	1052,307	1052,154	1050,879	1,28	750.372,223	8.180.687,371	1052,022	-2,0%	6,60	1050,387	9,05
13+0.000	8,40	1050,874	6,50	2,0%	1052,374	1052,244	1050,463	1,78	750.378,887	8.180.668,514	1052,112	-2,0%	6,60	1049,917	9,89
14+0.000	7,88	1050,600	5,50	2,0%	1052,444	1052,334	1050,121	2,21	750.385,551	8.180.649,656	1052,202	-2,0%	6,60	1049,490	10,67
15+0.000	8,08	1050,338	5,10	2,0%	1052,527	1052,425	1049,868	2,56	750.392,214	8.180.630,799	1058,893	98,0%	6,60	1049,345	11,02
16+0.000	8,10	1050,411	5,10	2,0%	1052,617	1052,515	1050,047	2,47	750.398,878	8.180.611,942	1065,583	198,0%	6,60	1049,409	11,06
17+0.000	8,10	1050,506	5,10	2,0%	1052,707	1052,605	1050,066	2,54	750.405,541	8.180.593,085	1052,473	-2,0%	6,60	1049,520	11,03
18+0.000	8,03	1050,639	5,10	2,0%	1052,797	1052,695	1050,259	2,44	750.412,205	8.180.574,227	1052,563	-2,0%	6,60	1049,718	10,87
19+0.000	8,07	1050,703	5,10	2,0%	1052,888	1052,786	1050,434	2,35	750.418,869	8.180.555,370	1052,654	-2,0%	6,60	1049,838	10,82
20+0.000	7,70	1051,040	5,10	2,0%	1052,978	1052,876	1050,746	2,13	750.425,532	8.180.536,513	1052,744	-2,0%	6,60	1050,176	10,45
21+0.000	7,40	1051,331	5,10	2,0%	1053,068	1052,966	1051,086	1,88	750.432,196	8.180.517,656	1052,834	-2,0%	6,60	1050,636	9,90
22+0.000	7,10	1051,624	5,10	2,0%	1053,158	1053,056	1051,370	1,69	750.438,859	8.180.498,798	1052,924	-2,0%	6,60	1051,020	9,46
23+0.000	6,77	1051,931	5,10	2,0%	1053,249	1053,147	1051,703	1,44	750.445,523	8.180.479,941	1053,015	-2,0%	6,60	1051,518	8,85
24+0.000	6,14	1052,442	5,10	2,0%	1053,339	1053,237	1052,270	0,97	750.452,187	8.180.461,084	1053,105	-2,0%	6,60	1052,021	8,23
25+0.000	6,19	1052,499	5,10	2,0%	1053,429	1053,327	1052,458	0,87	750.458,850	8.180.442,226	1053,195	-2,0%	6,60	1052,372	7,84
26+0.000	6,08	1052,665	5,10	2,0%	1053,519	1053,417	1052,617	0,80	750.465,514	8.180.423,369	1053,285	-2,0%	6,60	1052,509	7,76
27+0.000	6,04	1052,782	5,10	2,0%	1053,610	1053,508	1052,700	0,81	750.472,177	8.180.404,512	1053,376	-2,0%	6,60	1052,614	7,74
28+0.000	5,99	1052,905	5,10	2,0%	1053,700	1053,598	1052,792	0,81	750.478,841	8.180.385,655	1053,466	-2,0%	6,60	1052,653	7,82
29+0.000	5,90	1053,051	5,10	2,0%	1053,790	1053,688	1052,950	0,74	750.485,504	8.180.366,797	1053,556	-2,0%	6,60	1052,843	7,67
30+0.000	5,88	1053,117	5,10	2,0%	1053,841	1053,739	1053,055	0,68	750.492,168	8.180.347,940	1053,607	-2,0%	6,60	1052,936	7,61
31+0.000	5,71	1053,201	5,10	2,0%	1053,813	1053,711	1053,151	0,56	750.498,832	8.180.329,083	1053,579	-2,0%	6,60	1053,033	7,42
32+0.000	5,62	1053,158	5,10	2,0%	1053,706	1053,604	1053,167	0,44	750.505,495	8.180.310,226	1053,472	-2,0%	6,60	1053,053	7,23
33+0.000	5,71	1053,134	5,50	2,0%	1053,527	1053,417	1053,140	0,28	750.512,159	8.180.291,368	1053,285	-2,0%	6,60	1053,059	6,94
34+0.000	6,60	1053,022	6,50	2,0%	1053,321	1053,191	1053,031	0,16	750.518,822	8.180.272,511	1053,059	-2,0%	6,60	1053,010	6,67
35+0.000	7,71	1052,890	7,70	2,0%	1053,119	1052,965	1052,898	0,07	750.525,486	8.180.253,654	1052,833	-2,0%	6,60	1052,876	6,64
36+0.000	8,31	1052,788	8,10	2,0%	1052,901	1052,739	1052,771	-0,03	750.532,150	8.180.234,797	1052,607	-2,0%	6,60	1052,686	6,68
37+0.000	8,39	1052,641	8,10	2,0%	1052,675	1052,513	1052,642	-0,13	750.538,813	8.180.215,939	1052,381	-2,0%	6,60	1052,548	6,77
38+0.000	8,46	1052,486	8,10	2,0%	1052,449	1052,287	1052,513	-0,23	750.545,477	8.180.197,082	1052,155	-2,0%	6,60	1052,442	6,89
39+0.000	8,46	1052,260	5,10	2,0%	1052,162	1052,060	1052,403	-0,34	750.552,141	8.180.178,225	1051,928	-2,0%	6,60	1052,216	6,89



Notas-de-Serviço de Terraplenagem

Alinhamento: Interseção GO-437

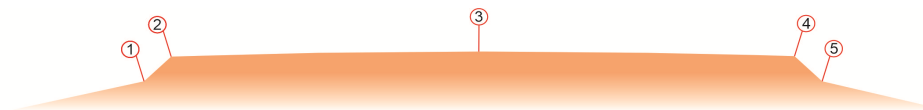
Estaca	Offset		Bordo Esquerdo			Eixo					Bordo Direito			Offset	
	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	cota	dist (m)
	1		2			3					4			5	
40+0.000	8,46	1052,034	5,10	2,0%	1051,936	1051,834	1052,192	-0,36	750.560,875	8.180.160,208	1051,702	-2,0%	6,60	1051,990	6,89
41+0.000	8,46	1051,808	5,10	2,0%	1051,710	1051,608	1051,976	-0,37	750.570,821	8.180.142,864	1051,476	-2,0%	6,60	1051,763	6,89
42+0.000	8,46	1051,582	5,10	2,0%	1051,484	1051,382	1051,587	-0,20	750.582,211	8.180.126,432	1051,250	-2,0%	6,60	1051,537	6,89
43+0.000	5,36	1050,883	5,10	2,0%	1051,258	1051,156	1051,061	0,10	750.594,402	8.180.110,577	1051,024	-2,0%	6,60	1051,206	6,78
44+0.000	5,59	1050,499	5,10	2,0%	1051,031	1050,929	1050,055	0,87	750.606,597	8.180.094,725	1050,797	-2,0%	6,60	1050,429	7,15
45+0.000	5,47	1050,966	5,10	2,0%	1050,805	1050,703	1050,550	0,15	750.618,793	8.180.078,874	1050,571	-2,0%	6,60	1049,775	7,79
45+17.903	5,46	1050,760	5,10	2,0%	1050,603	1050,501	1050,746	-0,25	750.629,710	8.180.064,684	1050,369	-2,0%	6,60	1050,605	6,84



Notas-de-Serviço de Terraplenagem

Alinhamento: Interseção 02

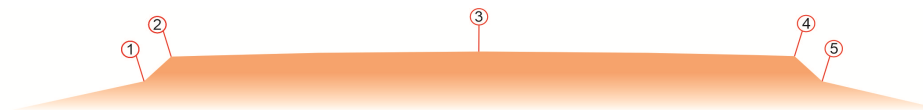
Estaca	Offset		Bordo Esquerdo			Eixo					Bordo Direito			Offset	
	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	cota	dist (m)
	1		2			3					4			5	
0+0.000	6,36	1005,385	4,00	2,0%	1006,470	1006,390	1005,912	0,48	775.288,119	8.185.637,411	1006,310	-2,0%	4,00	1005,367	6,09
0+5.000	6,55	1005,242	4,00	2,0%	1006,445	1006,365	1005,803	0,56	775.287,778	8.185.642,392	1006,285	-2,0%	4,00	1005,146	6,39
0+10.000	6,73	1005,106	4,00	2,0%	1006,419	1006,339	1005,522	0,82	775.286,491	8.185.647,215	1006,259	-2,0%	4,00	1005,101	6,43
0+15.000	6,89	1004,983	4,00	2,0%	1006,394	1006,314	1005,539	0,77	775.284,305	8.185.651,704	1006,234	-2,0%	4,00	1004,976	6,59
1+0.000	7,02	1004,876	4,00	2,0%	1006,369	1006,289	1005,493	0,80	775.281,303	8.185.655,692	1006,209	-2,0%	4,00	1004,840	6,77
1+5.000	7,14	1004,783	4,00	2,0%	1006,344	1006,264	1005,484	0,78	775.277,593	8.185.659,033	1006,184	-2,0%	4,00	1004,808	6,80
1+10.000	7,18	1004,735	4,00	2,0%	1006,318	1006,238	1005,478	0,76	775.273,313	8.185.661,603	1006,158	-2,0%	4,00	1004,825	6,74
1+15.000	7,16	1004,736	4,00	2,0%	1006,293	1006,213	1005,459	0,75	775.268,621	8.185.663,308	1006,133	-2,0%	4,00	1004,677	6,94
2+0.000	7,14	1004,727	4,00	2,0%	1006,268	1006,188	1005,425	0,76	775.263,689	8.185.664,085	1006,108	-2,0%	4,00	1004,613	7,01
2+5.000	7,07	1004,762	4,00	2,0%	1006,243	1006,163	1005,393	0,77	775.258,700	8.185.663,904	1006,083	-2,0%	4,00	1004,523	7,12
2+10.000	7,06	1004,747	4,00	2,0%	1006,217	1006,137	1005,362	0,77	775.253,838	8.185.662,774	1006,057	-2,0%	4,00	1004,541	7,07
2+15.000	7,02	1004,757	4,00	2,0%	1006,192	1006,112	1005,360	0,75	775.249,281	8.185.660,735	1006,032	-2,0%	4,00	1004,583	6,98
3+0.000	6,76	1004,913	4,00	2,0%	1006,171	1006,091	1005,379	0,71	775.245,197	8.185.657,863	1006,011	-2,0%	4,00	1004,609	6,91
3+5.000	6,61	1004,996	4,00	2,0%	1006,157	1006,077	1005,527	0,55	775.241,738	8.185.654,263	1005,997	-2,0%	4,00	1004,724	6,71
3+10.000	6,54	1005,029	4,00	2,0%	1006,148	1006,068	1005,596	0,47	775.239,031	8.185.650,068	1005,988	-2,0%	4,00	1004,839	6,52
3+15.000							1005,684		775.237,176	8.185.645,434					
4+0.000							1005,825		775.236,240	8.185.640,530					
4+5.000	6,32	1005,194	4,00	2,0%	1006,161	1006,081	1005,950	0,13	775.236,259	8.185.635,538	1006,001	-2,0%	4,00	1005,201	6,00
4+10.000	6,26	1005,250	4,00	2,0%	1006,178	1006,098	1006,054	0,04	775.237,231	8.185.630,641	1006,018	-2,0%	4,00	1005,326	5,84
4+15.000	6,21	1005,302	4,00	2,0%	1006,201	1006,121	1006,187	-0,07	775.239,122	8.185.626,021	1006,041	-2,0%	4,00	1005,407	5,74
5+0.000	6,12	1005,375	4,00	2,0%	1006,226	1006,146	1006,274	-0,13	775.241,861	8.185.621,847	1006,066	-2,0%	4,00	1005,477	5,67
5+5.000	6,04	1005,447	4,00	2,0%	1006,252	1006,172	1006,350	-0,18	775.245,347	8.185.618,273	1006,092	-2,0%	4,00	1005,574	5,55
5+10.000	5,98	1005,509	4,00	2,0%	1006,277	1006,197	1006,413	-0,22	775.249,452	8.185.615,432	1006,117	-2,0%	4,00	1005,682	5,41
5+15.000	5,92	1005,561	4,00	2,0%	1006,302	1006,222	1006,469	-0,25	775.254,024	8.185.613,427	1006,142	-2,0%	4,00	1005,768	5,31
6+0.000	5,89	1005,598	4,00	2,0%	1006,327	1006,247	1006,566	-0,32	775.258,895	8.185.612,333	1006,167	-2,0%	4,00	1005,844	5,22
6+5.000	5,87	1005,633	4,00	2,0%	1006,352	1006,272	1006,582	-0,31	775.263,885	8.185.612,191	1006,192	-2,0%	4,00	1005,891	5,18
6+10.000	5,83	1005,676	4,00	2,0%	1006,377	1006,297	1006,420	-0,12	775.268,811	8.185.613,005	1006,217	-2,0%	4,00	1005,901	5,19
6+15.000	5,82	1005,700	4,00	2,0%	1006,402	1006,322	1006,368	-0,05	775.273,490	8.185.614,745	1006,242	-2,0%	4,00	1005,886	5,24
7+0.000	5,87	1005,685	4,00	2,0%	1006,427	1006,347	1006,266	0,08	775.277,750	8.185.617,347	1006,267	-2,0%	4,00	1005,853	5,31
7+5.000	5,95	1005,649	4,00	2,0%	1006,452	1006,372	1006,143	0,23	775.281,435	8.185.620,716	1006,292	-2,0%	4,00	1005,801	5,42





Notas-de-Serviço de Terraplenagem

Alinhamento: Interseção 03

Estaca	Offset		Bordo Esquerdo			Eixo					Bordo Direito			Offset	
	dist (m)	cota terrapl	dist (m)	i (%)	cota terrapl	cota terrapl	cota terreno	cota verm	Coordenada X	Coordenada Y	cota terrapl	i (%)	dist (m)	cota	dist (m)
	1		2			3					4			5	
0+0.000	5,58	983,599	4,00	2,0%	983,638	983,558	983,565	-0,01	797.599,387	8.177.800,714	983,478	-2,0%	4,00	983,881	5,27
0+5.000	5,58	983,576	4,00	2,0%	983,608	983,528	983,699	-0,17	797.604,248	8.177.799,577	983,448	-2,0%	4,00	983,859	5,27
0+10.000	5,58	983,554	4,00	2,0%	983,579	983,499	983,630	-0,13	797.609,237	8.177.799,391	983,419	-2,0%	4,00	983,836	5,27
0+15.000	5,58	983,532	4,00	2,0%	983,549	983,469	982,487	0,98	797.614,169	8.177.800,162	983,389	-2,0%	4,00	983,814	5,27
1+0.000	5,58	983,510	4,00	2,0%	983,519	983,439	981,561	1,88	797.618,864	8.177.801,862	983,359	-2,0%	4,00	983,792	5,27
1+5.000	5,58	983,487	4,00	2,0%	983,489	983,409	981,326	2,08	797.623,146	8.177.804,427	983,329	-2,0%	4,00	983,770	5,27
1+10.000	5,58	983,465	4,00	2,0%	983,460	983,380	981,313	2,07	797.626,860	8.177.807,764	983,300	-2,0%	4,00	983,747	5,27
1+15.000	5,58	983,443	4,00	2,0%	983,430	983,350	981,308	2,04	797.629,867	8.177.811,748	983,270	-2,0%	4,00	983,725	5,27
2+0.000	5,58	983,420	4,00	2,0%	983,400	983,320	981,428	1,89	797.632,058	8.177.816,235	983,240	-2,0%	4,00	983,703	5,27
2+5.000	5,58	983,398	4,00	2,0%	983,370	983,290	981,623	1,67	797.633,350	8.177.821,057	983,210	-2,0%	4,00	983,680	5,27
2+10.000	5,58	983,376	4,00	2,0%	983,341	983,261	982,078	1,18	797.633,698	8.177.826,037	983,181	-2,0%	4,00	983,658	5,27
2+15.000	5,58	983,354	4,00	2,0%	983,312	983,232	983,252	-0,02	797.633,086	8.177.830,992	983,152	-2,0%	4,00	983,636	5,27
3+0.000	5,58	983,331	4,00	2,0%	983,315	983,235	983,456	-0,22	797.631,540	8.177.835,738	983,155	-2,0%	4,00	983,614	5,27
3+5.000							983,705		797.629,114	8.177.840,102					
3+10.000							983,890		797.625,899	8.177.843,921					
3+15.000	5,19	983,667	4,00	2,0%	983,621	983,541	983,866	-0,32	797.622,014	8.177.847,056	983,461	-2,0%	4,00	983,665	5,24
4+0.000	5,20	983,728	4,00	2,0%	983,789	983,709	983,843	-0,13	797.617,601	8.177.849,390	983,629	-2,0%	4,00	983,648	5,16
4+5.000	5,20	983,767	4,00	2,0%	983,957	983,877	984,105	-0,23	797.612,823	8.177.850,838	983,797	-2,0%	4,00	983,687	5,16
4+10.000	5,20	983,872	4,00	2,0%	984,125	984,045	984,378	-0,33	797.607,857	8.177.851,346	983,965	-2,0%	4,00	983,791	5,16
4+15.000	5,20	983,976	4,00	2,0%	984,293	984,213	984,670	-0,46	797.602,885	8.177.850,895	984,133	-2,0%	4,00	983,896	5,16
5+0.000	5,20	984,080	4,00	2,0%	984,462	984,382	985,013	-0,63	797.598,091	8.177.849,503	984,302	-2,0%	4,00	984,000	5,16
5+5.000	5,20	984,185	4,00	2,0%	984,613	984,533	985,307	-0,77	797.593,651	8.177.847,220	984,453	-2,0%	4,00	984,105	5,16
5+10.000	5,20	984,289	4,00	2,0%	984,710	984,630	985,547	-0,92	797.589,730	8.177.844,130	984,550	-2,0%	4,00	984,209	5,16
5+15.000	5,76	985,112	4,00	2,0%	984,751	984,671	985,671	-1,00	797.586,471	8.177.840,348	984,591	-2,0%	4,00	985,769	6,62
6+0.000	5,76	985,191	4,00	2,0%	984,735	984,655	985,666	-1,01	797.583,995	8.177.836,013	984,575	-2,0%	4,00	985,848	6,62
6+5.000	5,76	985,217	4,00	2,0%	984,663	984,583	985,476	-0,89	797.582,394	8.177.831,284	984,503	-2,0%	4,00	985,874	6,62
6+10.000	5,76	985,192	4,00	2,0%	984,534	984,454	984,996	-0,54	797.581,726	8.177.826,337	984,374	-2,0%	4,00	985,849	6,62
6+15.000	5,17	984,529	4,00	2,0%	984,365	984,285	984,768	-0,48	797.582,015	8.177.821,353	984,205	-2,0%	4,00	984,971	5,82
7+0.000	5,17	984,426	4,00	2,0%	984,194	984,114	984,713	-0,60	797.583,252	8.177.816,516	984,034	-2,0%	4,00	984,867	5,82
7+5.000	5,17	984,322	4,00	2,0%	984,023	983,943	984,622	-0,68	797.585,390	8.177.812,005	983,863	-2,0%	4,00	984,764	5,82
7+10.000	5,17	984,219	4,00	2,0%	983,852	983,772	984,442	-0,67	797.588,352	8.177.807,986	983,692	-2,0%	4,00	984,661	5,82
7+15.000			4,00	2,0%	983,682	983,602	984,059	-0,46	797.592,026	8.177.804,607	983,522	-2,0%	4,00		



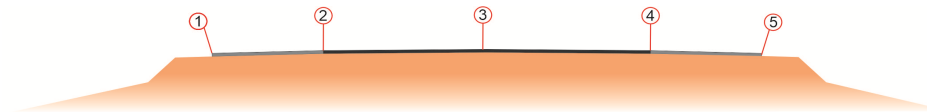
	Volume 3A – Notas de Serviço e Cálculo de Volumes de Terraplenagem	REV.: 00	
	ANTEPROJETO DE ENGENHARIA PARA CONSTRUÇÃO DA RODOVIA ESTRADA CHAPADA DAS COVAS	FOLHA: 131	

4. NOTAS DE SERVIÇO DE PAVIMENTAÇÃO

Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

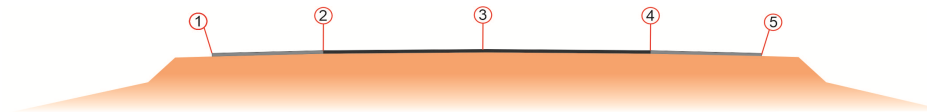
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
0+0.000							1052,970	1052,828	750.485,354	8.180.497,456						
1+0.000							1053,259	1051,519	750.505,094	8.180.500,670						
2+0.000	-7,88	1,6%	1053,424	-9,88	1,6%	1053,393	1053,548	1052,885	750.524,834	8.180.503,883	1053,348	-2,0%	9,98	1053,308	-2,0%	11,98
3+0.000	-7,70	1,4%	1053,729	-9,70	1,4%	1053,702	1053,834	1053,050	750.544,575	8.180.507,096	1053,760	-2,0%	3,69	1053,720	-2,0%	5,69
4+0.000	-7,70	1,2%	1053,948	-9,70	1,2%	1053,925	1054,037	1053,250	750.564,315	8.180.510,309	1053,967	-2,0%	3,50	1053,927	-2,0%	5,50
5+0.000	-7,70	0,9%	1054,050	-9,70	0,9%	1054,032	1054,122	1053,278	750.584,055	8.180.513,522	1054,052	-2,0%	3,50	1054,012	-2,0%	5,50
6+0.000	-7,70	0,7%	1054,034	-9,70	0,7%	1054,019	1054,089	1053,171	750.603,795	8.180.516,735	1054,019	-2,0%	3,50	1053,979	-2,0%	5,50
7+0.000	-7,70	0,5%	1053,902	-9,70	0,5%	1053,892	1053,941	1053,027	750.623,535	8.180.519,949	1053,871	-2,0%	3,50	1053,831	-2,0%	5,50
8+0.000	-7,70	0,3%	1053,735	-9,70	0,3%	1053,729	1053,758	1052,972	750.643,276	8.180.523,162	1053,688	-2,0%	3,50	1053,648	-2,0%	5,50
9+0.000	-7,70	0,1%	1053,569	-9,70	0,1%	1053,567	1053,575	1052,730	750.663,016	8.180.526,375	1053,505	-2,0%	3,50	1053,465	-2,0%	5,50
10+0.000	-7,70	-0,1%	1053,402	-9,70	-0,1%	1053,405	1053,392	1052,462	750.682,756	8.180.529,588	1053,322	-2,0%	3,50	1053,282	-2,0%	5,50
11+0.000	-7,70	-0,3%	1053,235	-9,70	-0,3%	1053,242	1053,209	1052,126	750.702,496	8.180.532,801	1053,139	-2,0%	3,50	1053,099	-2,0%	5,50
12+0.000	-7,70	-0,6%	1053,080	-9,70	-0,6%	1053,091	1053,037	1051,832	750.722,236	8.180.536,014	1052,967	-2,0%	3,50	1052,927	-2,0%	5,50
13+0.000	-7,70	-0,8%	1052,992	-9,70	-0,8%	1053,008	1052,933	1051,496	750.741,977	8.180.539,228	1052,863	-2,0%	3,50	1052,823	-2,0%	5,50
14+0.000	-7,70	-1,0%	1052,979	-9,70	-1,0%	1052,999	1052,904	1051,308	750.761,717	8.180.542,441	1052,834	-2,0%	3,50	1052,794	-2,0%	5,50
15+0.000	-7,70	-1,2%	1053,041	-9,70	-1,2%	1053,065	1052,949	1050,970	750.781,457	8.180.545,654	1052,879	-2,0%	3,50	1052,839	-2,0%	5,50
16+0.000	-7,70	-1,4%	1053,167	-9,70	-1,4%	1053,195	1053,058	1050,699	750.801,197	8.180.548,867	1052,988	-2,0%	3,50	1052,948	-2,0%	5,50
17+0.000	-7,70	-1,6%	1053,299	-9,70	-1,6%	1053,331	1053,174	1050,358	750.820,937	8.180.552,080	1053,104	-2,0%	3,50	1053,064	-2,0%	5,50
18+0.000	-7,70	-1,8%	1053,431	-9,70	-1,8%	1053,468	1053,290	1050,128	750.840,678	8.180.555,293	1053,220	-2,0%	3,50	1053,180	-2,0%	5,50
19+0.000	-7,70	-2,0%	1053,560	-9,70	-2,0%	1053,600	1053,406	1049,925	750.860,418	8.180.558,507	1053,358	-1,4%	3,50	1053,330	-1,4%	5,50
20+0.000	-7,70	-2,0%	1053,641	-9,70	-2,0%	1053,681	1053,487	1049,787	750.880,158	8.180.561,720	1053,535	1,4%	3,50	1053,563	1,4%	5,50
21+0.000	-7,70	-4,0%	1053,817	-9,70	-4,0%	1053,897	1053,509	1049,740	750.899,857	8.180.565,171	1053,649	4,0%	3,50	1053,729	4,0%	5,50
22+0.000	-7,70	-4,0%	1053,779	-9,70	-4,0%	1053,859	1053,471	1049,810	750.919,450	8.180.569,181	1053,611	4,0%	3,50	1053,691	4,0%	5,50
23+0.000	-7,70	-4,0%	1053,684	-9,70	-4,0%	1053,764	1053,376	1049,905	750.938,921	8.180.573,749	1053,516	4,0%	3,50	1053,596	4,0%	5,50
24+0.000	-7,70	-4,0%	1053,564	-9,70	-4,0%	1053,644	1053,256	1049,984	750.958,253	8.180.578,872	1053,396	4,0%	3,50	1053,476	4,0%	5,50
25+0.000	-7,70	-4,0%	1053,445	-9,70	-4,0%	1053,525	1053,137	1050,139	750.977,431	8.180.584,545	1053,277	4,0%	3,50	1053,357	4,0%	5,50
26+0.000	-7,70	-4,0%	1053,325	-9,70	-4,0%	1053,405	1053,017	1050,373	750.996,439	8.180.590,764	1053,157	4,0%	3,50	1053,237	4,0%	5,50
27+0.000	-7,70	-4,0%	1053,206	-9,70	-4,0%	1053,286	1052,898	1050,590	751.015,261	8.180.597,523	1053,038	4,0%	3,50	1053,118	4,0%	5,50
28+0.000	-7,70	-4,0%	1053,086	-9,70	-4,0%	1053,166	1052,778	1050,806	751.033,883	8.180.604,817	1052,918	4,0%	3,50	1052,998	4,0%	5,50
29+0.000	-7,70	-4,0%	1052,967	-9,70	-4,0%	1053,047	1052,659	1050,922	751.052,289	8.180.612,640	1052,799	4,0%	3,50	1052,879	4,0%	5,50
30+0.000	-7,70	-4,0%	1052,847	-9,70	-4,0%	1052,927	1052,539	1051,110	751.070,464	8.180.620,985	1052,679	4,0%	3,50	1052,759	4,0%	5,50
31+0.000	-7,70	-3,0%	1052,651	-9,70	-3,0%	1052,711	1052,420	1051,321	751.088,393	8.180.629,847	1052,525	3,0%	3,50	1052,585	3,0%	5,50
32+0.000	-7,70	-2,0%	1052,455	-9,70	-2,0%	1052,495	1052,301	1051,479	751.106,094	8.180.639,156	1052,309	0,2%	3,50	1052,314	0,2%	5,50
33+0.000	-7,70	-2,0%	1052,335	-9,70	-2,0%	1052,375	1052,181	1051,473	751.123,761	8.180.648,529	1052,111	-2,0%	3,50	1052,071	-2,0%	5,50
34+0.000	-7,70	-2,0%	1052,216	-9,70	-2,0%	1052,256	1052,062	1051,481	751.141,429	8.180.657,903	1051,992	-2,0%	3,50	1051,952	-2,0%	5,50
35+0.000	-7,70	-2,0%	1052,096	-9,70	-2,0%	1052,136	1051,942	1051,338	751.159,096	8.180.667,277	1051,872	-2,0%	3,50	1051,832	-2,0%	5,50
36+0.000	-7,70	-2,0%	1051,977	-9,70	-2,0%	1052,017	1051,823	1051,259	751.176,763	8.180.676,651	1051,753	-2,0%	3,50	1051,713	-2,0%	5,50
37+0.000	-7,70	-2,0%	1051,857	-9,70	-2,0%	1051,897	1051,703	1051,085	751.194,431	8.180.686,024	1051,633	-2,0%	3,50	1051,593	-2,0%	5,50
38+0.000	-7,70	-2,0%	1051,738	-9,70	-2,0%	1051,778	1051,584	1051,020	751.212,098	8.180.695,398	1051,514	-2,0%	3,50	1051,474	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

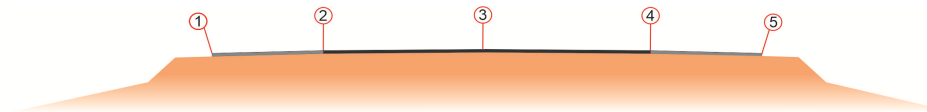
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
39+0.000	-7,70	-2,0%	1051,618	-9,70	-2,0%	1051,658	1051,464	1050,928	751.229,765	8.180.704,772	1051,394	-2,0%	3,50	1051,354	-2,0%	5,50
40+0.000	-7,70	-2,0%	1051,499	-9,70	-2,0%	1051,539	1051,345	1050,792	751.247,432	8.180.714,146	1051,275	-2,0%	3,50	1051,235	-2,0%	5,50
41+0.000	-7,70	-2,0%	1051,379	-9,70	-2,0%	1051,419	1051,225	1050,586	751.265,100	8.180.723,519	1051,155	-2,0%	3,50	1051,115	-2,0%	5,50
42+0.000	-7,70	-2,0%	1051,260	-9,70	-2,0%	1051,300	1051,106	1050,272	751.282,767	8.180.732,893	1051,036	-2,0%	3,50	1050,996	-2,0%	5,50
43+0.000	-7,70	-2,0%	1051,141	-9,70	-2,0%	1051,181	1050,987	1050,122	751.300,434	8.180.742,267	1050,917	-2,0%	3,50	1050,877	-2,0%	5,50
44+0.000	-7,70	-2,0%	1051,056	-9,70	-2,0%	1051,096	1050,902	1050,038	751.318,101	8.180.751,641	1050,832	-2,0%	3,50	1050,792	-2,0%	5,50
45+0.000	-7,70	-2,0%	1051,029	-9,70	-2,0%	1051,069	1050,875	1049,389	751.335,769	8.180.761,014	1050,805	-2,0%	3,50	1050,765	-2,0%	5,50
46+0.000	-7,70	-2,0%	1051,061	-9,70	-2,0%	1051,101	1050,907	1049,148	751.353,436	8.180.770,388	1050,837	-2,0%	3,50	1050,797	-2,0%	5,50
47+0.000	-7,70	-2,0%	1051,150	-9,70	-2,0%	1051,190	1050,996	1048,944	751.371,103	8.180.779,762	1050,926	-2,0%	3,50	1050,886	-2,0%	5,50
48+0.000	-7,70	-2,0%	1051,263	-9,70	-2,0%	1051,303	1051,109	1048,787	751.388,771	8.180.789,136	1051,039	-2,0%	3,50	1050,999	-2,0%	5,50
49+0.000	-7,70	-2,0%	1051,377	-9,70	-2,0%	1051,417	1051,223	1048,701	751.406,438	8.180.798,510	1051,153	-2,0%	3,50	1051,113	-2,0%	5,50
50+0.000	-7,70	-2,0%	1051,490	-9,70	-2,0%	1051,530	1051,336	1048,493	751.424,105	8.180.807,883	1051,266	-2,0%	3,50	1051,226	-2,0%	5,50
51+0.000	-7,70	-2,0%	1051,598	-9,70	-2,0%	1051,638	1051,444	1048,353	751.441,772	8.180.817,257	1051,374	-2,0%	3,50	1051,334	-2,0%	5,50
52+0.000	-7,70	-2,0%	1051,663	-9,70	-2,0%	1051,703	1051,509	1048,266	751.459,440	8.180.826,631	1051,439	-2,0%	3,50	1051,399	-2,0%	5,50
53+0.000	-7,70	-2,0%	1051,674	-9,70	-2,0%	1051,714	1051,520	1048,360	751.477,107	8.180.836,005	1051,450	-2,0%	3,50	1051,410	-2,0%	5,50
54+0.000	-7,70	-2,0%	1051,632	-9,70	-2,0%	1051,672	1051,478	1048,417	751.494,774	8.180.845,378	1051,408	-2,0%	3,50	1051,368	-2,0%	5,50
55+0.000	-7,70	-0,7%	1051,440	-9,70	-0,7%	1051,454	1051,388	1048,408	751.512,454	8.180.854,729	1051,314	-2,0%	3,72	1051,274	-2,0%	5,72
56+0.000	-7,70	2,1%	1051,125	-9,70	2,1%	1051,082	1051,288	1048,626	751.530,263	8.180.863,829	1051,201	-2,1%	4,09	1051,159	-2,1%	6,09
57+0.000	-7,70	4,9%	1050,809	-9,70	4,9%	1050,711	1051,188	1048,635	751.548,357	8.180.872,346	1050,986	-4,9%	4,11	1050,887	-4,9%	6,11
58+0.000	-7,70	5,6%	1050,658	-9,70	5,6%	1050,546	1051,089	1048,707	751.566,852	8.180.879,952	1050,859	-5,6%	4,10	1050,747	-5,6%	6,10
59+0.000	-7,70	5,6%	1050,558	-9,70	5,6%	1050,446	1050,989	1048,663	751.585,740	8.180.886,521	1050,759	-5,6%	4,10	1050,647	-5,6%	6,10
60+0.000	-7,70	5,6%	1050,458	-9,70	5,6%	1050,346	1050,889	1048,844	751.604,963	8.180.892,030	1050,659	-5,6%	4,10	1050,547	-5,6%	6,10
61+0.000	-7,70	5,6%	1050,358	-9,70	5,6%	1050,246	1050,789	1049,011	751.624,463	8.180.896,464	1050,559	-5,6%	4,10	1050,447	-5,6%	6,10
62+0.000	-7,70	5,6%	1050,259	-9,70	5,6%	1050,147	1050,690	1049,049	751.644,179	8.180.899,808	1050,460	-5,6%	4,10	1050,348	-5,6%	6,10
63+0.000	-7,70	5,6%	1050,159	-9,70	5,6%	1050,047	1050,590	1049,340	751.664,050	8.180.902,053	1050,360	-5,6%	4,10	1050,248	-5,6%	6,10
64+0.000	-7,70	5,6%	1050,059	-9,70	5,6%	1049,947	1050,490	1049,463	751.684,015	8.180.903,190	1050,260	-5,6%	4,10	1050,148	-5,6%	6,10
65+0.000	-7,70	5,6%	1049,959	-9,70	5,6%	1049,847	1050,390	1049,479	751.704,012	8.180.903,217	1050,160	-5,6%	4,10	1050,048	-5,6%	6,10
66+0.000	-7,70	5,6%	1049,860	-9,70	5,6%	1049,748	1050,291	1049,348	751.723,980	8.180.902,134	1050,061	-5,6%	4,10	1049,949	-5,6%	6,10
67+0.000	-7,70	5,6%	1049,760	-9,70	5,6%	1049,648	1050,191	1049,211	751.743,857	8.180.899,943	1049,961	-5,6%	4,10	1049,849	-5,6%	6,10
68+0.000	-7,70	5,6%	1049,660	-9,70	5,6%	1049,548	1050,091	1049,231	751.763,582	8.180.896,652	1049,861	-5,6%	4,10	1049,749	-5,6%	6,10
69+0.000	-7,70	5,6%	1049,561	-9,70	5,6%	1049,449	1049,992	1049,168	751.783,094	8.180.892,271	1049,762	-5,6%	4,10	1049,650	-5,6%	6,10
70+0.000	-7,70	5,6%	1049,461	-9,70	5,6%	1049,349	1049,892	1049,156	751.802,332	8.180.886,814	1049,662	-5,6%	4,10	1049,550	-5,6%	6,10
71+0.000	-7,70	5,6%	1049,361	-9,70	5,6%	1049,249	1049,792	1049,230	751.821,238	8.180.880,296	1049,562	-5,6%	4,10	1049,450	-5,6%	6,10
72+0.000	-7,70	2,8%	1049,473	-9,70	2,8%	1049,417	1049,692	1049,137	751.839,775	8.180.872,794	1049,576	-2,8%	4,09	1049,519	-2,8%	6,09
73+0.000	-7,70	0,0%	1049,590	-9,70	0,0%	1049,589	1049,593	1049,001	751.858,021	8.180.864,605	1049,513	-2,0%	3,98	1049,473	-2,0%	5,98
74+0.000	-7,70	-2,0%	1049,647	-9,70	-2,0%	1049,687	1049,493	1048,785	751.876,111	8.180.856,075	1049,423	-2,0%	3,51	1049,383	-2,0%	5,51
75+0.000	-7,70	-2,0%	1049,548	-9,70	-2,0%	1049,588	1049,394	1048,421	751.894,173	8.180.847,488	1049,324	-2,0%	3,50	1049,284	-2,0%	5,50
76+0.000	-7,70	-2,0%	1049,488	-9,70	-2,0%	1049,528	1049,334	1048,082	751.912,236	8.180.838,900	1049,264	-2,0%	3,50	1049,224	-2,0%	5,50
77+0.000	-7,70	-2,0%	1049,489	-9,70	-2,0%	1049,529	1049,335	1047,663	751.930,298	8.180.830,312	1049,265	-2,0%	3,50	1049,225	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

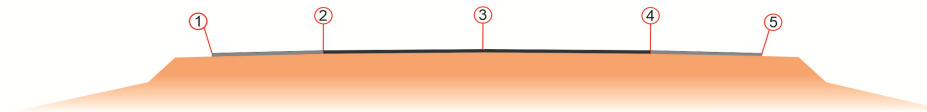
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
78+0.000	-7,70	-2,0%	1049,552	-9,70	-2,0%	1049,592	1049,398	1047,509	751.948,361	8.180.821,724	1049,328	-2,0%	3,50	1049,288	-2,0%	5,50
79+0.000	-7,70	-2,0%	1049,675	-9,70	-2,0%	1049,715	1049,521	1047,356	751.966,423	8.180.813,137	1049,451	-2,0%	3,50	1049,411	-2,0%	5,50
80+0.000	-7,70	-2,0%	1049,821	-9,70	-2,0%	1049,861	1049,667	1047,241	751.984,485	8.180.804,549	1049,597	-2,0%	3,50	1049,557	-2,0%	5,50
81+0.000	-7,70	-2,0%	1049,967	-9,70	-2,0%	1050,007	1049,813	1047,338	752.002,548	8.180.795,961	1049,743	-2,0%	3,50	1049,703	-2,0%	5,50
82+0.000	-7,70	-2,0%	1050,113	-9,70	-2,0%	1050,153	1049,959	1047,761	752.020,610	8.180.787,373	1049,889	-2,0%	3,50	1049,849	-2,0%	5,50
83+0.000	-7,70	-2,0%	1050,259	-9,70	-2,0%	1050,299	1050,105	1047,008	752.038,673	8.180.778,785	1050,035	-2,0%	3,50	1049,995	-2,0%	5,50
84+0.000	-7,70	-2,0%	1050,405	-9,70	-2,0%	1050,445	1050,251	1047,013	752.056,735	8.180.770,198	1050,181	-2,0%	3,50	1050,141	-2,0%	5,50
85+0.000	-7,70	-2,0%	1050,551	-9,70	-2,0%	1050,591	1050,397	1047,210	752.074,797	8.180.761,610	1050,327	-2,0%	3,50	1050,287	-2,0%	5,50
86+0.000	-7,86	-2,0%	1050,700	-9,86	-2,0%	1050,740	1050,543	1047,551	752.092,876	8.180.753,057	1050,473	-2,0%	3,50	1050,433	-2,0%	5,50
87+0.000	-8,10	-2,0%	1050,851	-10,10	-2,0%	1050,891	1050,689	1047,950	752.111,085	8.180.744,786	1050,691	0,1%	3,50	1050,692	0,1%	5,50
88+0.000	-8,08	-2,8%	1051,064	-10,08	-2,8%	1051,121	1050,835	1048,359	752.129,559	8.180.737,128	1050,934	2,8%	3,50	1050,991	2,8%	5,50
89+0.000	-8,27	-5,6%	1051,447	-10,27	-5,6%	1051,559	1050,981	1048,867	752.148,400	8.180.730,425	1051,178	5,6%	3,50	1051,291	5,6%	5,50
90+0.000	-8,30	-6,0%	1051,625	-10,30	-6,0%	1051,745	1051,127	1048,999	752.167,646	8.180.725,002	1051,337	6,0%	3,50	1051,457	6,0%	5,50
91+0.000	-8,30	-6,0%	1051,771	-10,30	-6,0%	1051,891	1051,273	1049,750	752.187,230	8.180.720,966	1051,483	6,0%	3,50	1051,603	6,0%	5,50
92+0.000	-8,30	-6,0%	1051,917	-10,30	-6,0%	1052,037	1051,419	1049,861	752.207,052	8.180.718,338	1051,629	6,0%	3,50	1051,749	6,0%	5,50
93+0.000	-8,30	-6,0%	1052,063	-10,30	-6,0%	1052,183	1051,565	1050,221	752.227,012	8.180.717,132	1051,775	6,0%	3,50	1051,895	6,0%	5,50
94+0.000	-8,30	-6,0%	1052,209	-10,30	-6,0%	1052,329	1051,711	1050,634	752.247,006	8.180.717,353	1051,921	6,0%	3,50	1052,041	6,0%	5,50
95+0.000	-8,30	-6,0%	1052,355	-10,30	-6,0%	1052,475	1051,857	1051,136	752.266,934	8.180.719,000	1052,067	6,0%	3,50	1052,187	6,0%	5,50
96+0.000	-8,30	-6,0%	1052,501	-10,30	-6,0%	1052,621	1052,003	1051,406	752.286,693	8.180.722,065	1052,213	6,0%	3,50	1052,333	6,0%	5,50
97+0.000	-8,32	-5,4%	1052,595	-10,32	-5,4%	1052,702	1052,149	1051,676	752.306,184	8.180.726,533	1052,336	5,4%	3,50	1052,444	5,4%	5,50
98+0.000	-8,20	-2,6%	1052,502	-10,20	-2,6%	1052,553	1052,291	1051,815	752.325,339	8.180.732,275	1052,381	2,6%	3,50	1052,432	2,6%	5,50
99+0.000	-8,08	-2,0%	1052,586	-10,08	-2,0%	1052,626	1052,424	1051,948	752.344,187	8.180.738,960	1052,416	-0,2%	3,50	1052,412	-0,2%	5,50
100+0.000	-7,98	-2,0%	1052,706	-9,98	-2,0%	1052,746	1052,546	1052,015	752.362,816	8.180.746,237	1052,476	-2,0%	3,50	1052,436	-2,0%	5,50
101+0.000	-7,70	-2,0%	1052,813	-9,70	-2,0%	1052,853	1052,659	1052,101	752.381,342	8.180.753,772	1052,589	-2,0%	3,50	1052,549	-2,0%	5,50
102+0.000	-7,70	-2,0%	1052,919	-9,70	-2,0%	1052,959	1052,765	1052,112	752.399,858	8.180.761,332	1052,695	-2,0%	3,50	1052,655	-2,0%	5,50
103+0.000	-7,70	-2,0%	1053,025	-9,70	-2,0%	1053,065	1052,871	1052,179	752.418,374	8.180.768,891	1052,801	-2,0%	3,50	1052,761	-2,0%	5,50
104+0.000	-7,70	-2,0%	1053,131	-9,70	-2,0%	1053,171	1052,977	1052,151	752.436,891	8.180.776,451	1052,907	-2,0%	3,50	1052,867	-2,0%	5,50
105+0.000	-7,70	-2,0%	1053,237	-9,70	-2,0%	1053,277	1053,083	1052,172	752.455,407	8.180.784,011	1053,013	-2,0%	3,50	1052,973	-2,0%	5,50
106+0.000	-7,70	-2,0%	1053,343	-9,70	-2,0%	1053,383	1053,189	1052,151	752.473,923	8.180.791,571	1053,119	-2,0%	3,50	1053,079	-2,0%	5,50
107+0.000	-7,70	-2,0%	1053,449	-9,70	-2,0%	1053,489	1053,295	1052,227	752.492,439	8.180.799,131	1053,225	-2,0%	3,50	1053,185	-2,0%	5,50
108+0.000	-7,70	-2,0%	1053,555	-9,70	-2,0%	1053,595	1053,401	1052,191	752.510,955	8.180.806,691	1053,331	-2,0%	3,50	1053,291	-2,0%	5,50
109+0.000	-7,70	-2,0%	1053,660	-9,70	-2,0%	1053,700	1053,506	1052,237	752.529,472	8.180.814,251	1053,436	-2,0%	3,50	1053,396	-2,0%	5,50
110+0.000	-7,70	-2,0%	1053,766	-9,70	-2,0%	1053,806	1053,612	1052,437	752.547,988	8.180.821,810	1053,542	-2,0%	3,50	1053,502	-2,0%	5,50
111+0.000	-7,70	-2,0%	1053,872	-9,70	-2,0%	1053,912	1053,718	1052,346	752.566,504	8.180.829,370	1053,648	-2,0%	3,50	1053,608	-2,0%	5,50
112+0.000	-7,70	-2,0%	1053,978	-9,70	-2,0%	1054,018	1053,824	1052,438	752.585,020	8.180.836,930	1053,754	-2,0%	3,50	1053,714	-2,0%	5,50
113+0.000	-7,70	-2,0%	1054,084	-9,70	-2,0%	1054,124	1053,930	1052,473	752.603,536	8.180.844,490	1053,860	-2,0%	3,50	1053,820	-2,0%	5,50
114+0.000	-7,70	-2,0%	1054,190	-9,70	-2,0%	1054,230	1054,036	1052,650	752.622,052	8.180.852,050	1053,966	-2,0%	3,50	1053,926	-2,0%	5,50
115+0.000	-7,70	-2,0%	1054,296	-9,70	-2,0%	1054,336	1054,142	1052,740	752.640,569	8.180.859,610	1054,072	-2,0%	3,50	1054,032	-2,0%	5,50
116+0.000	-7,70	-2,0%	1054,402	-9,70	-2,0%	1054,442	1054,248	1052,836	752.659,085	8.180.867,169	1054,178	-2,0%	3,50	1054,138	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

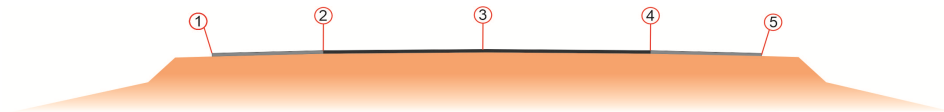
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
117+0.000	-7,70	-2,0%	1054,508	-9,70	-2,0%	1054,548	1054,354	1053,145	752.677,601	8.180.874,729	1054,284	-2,0%	3,50	1054,244	-2,0%	5,50
118+0.000	-7,70	-2,0%	1054,614	-9,70	-2,0%	1054,654	1054,460	1053,127	752.696,117	8.180.882,289	1054,390	-2,0%	3,50	1054,350	-2,0%	5,50
119+0.000	-7,70	-2,0%	1054,720	-9,70	-2,0%	1054,760	1054,566	1053,322	752.714,633	8.180.889,849	1054,496	-2,0%	3,50	1054,456	-2,0%	5,50
120+0.000	-7,70	-2,0%	1054,826	-9,70	-2,0%	1054,866	1054,672	1053,292	752.733,149	8.180.897,409	1054,602	-2,0%	3,50	1054,562	-2,0%	5,50
121+0.000	-7,70	-2,0%	1054,932	-9,70	-2,0%	1054,972	1054,778	1053,278	752.751,666	8.180.904,969	1054,708	-2,0%	3,50	1054,668	-2,0%	5,50
122+0.000	-7,70	-2,0%	1055,038	-9,70	-2,0%	1055,078	1054,884	1053,343	752.770,182	8.180.912,529	1054,814	-2,0%	3,50	1054,774	-2,0%	5,50
123+0.000	-7,70	-2,0%	1055,143	-9,70	-2,0%	1055,183	1054,989	1053,440	752.788,698	8.180.920,088	1054,919	-2,0%	3,50	1054,879	-2,0%	5,50
124+0.000	-7,70	-2,0%	1055,249	-9,70	-2,0%	1055,289	1055,095	1053,488	752.807,214	8.180.927,648	1055,025	-2,0%	3,50	1054,985	-2,0%	5,50
125+0.000	-7,70	-2,0%	1055,355	-9,70	-2,0%	1055,395	1055,201	1053,722	752.825,730	8.180.935,208	1055,131	-2,0%	3,50	1055,091	-2,0%	5,50
126+0.000	-7,70	-2,0%	1055,461	-9,70	-2,0%	1055,501	1055,307	1053,835	752.844,246	8.180.942,768	1055,237	-2,0%	3,50	1055,197	-2,0%	5,50
127+0.000	-7,70	-2,0%	1055,567	-9,70	-2,0%	1055,607	1055,413	1053,741	752.862,763	8.180.950,328	1055,343	-2,0%	3,50	1055,303	-2,0%	5,50
128+0.000	-7,70	-2,0%	1055,673	-9,70	-2,0%	1055,713	1055,519	1053,869	752.881,279	8.180.957,888	1055,449	-2,0%	3,50	1055,409	-2,0%	5,50
129+0.000	-7,70	-2,0%	1055,779	-9,70	-2,0%	1055,819	1055,625	1053,930	752.899,795	8.180.965,448	1055,555	-2,0%	3,50	1055,515	-2,0%	5,50
130+0.000	-7,70	-2,0%	1055,885	-9,70	-2,0%	1055,925	1055,731	1054,091	752.918,311	8.180.973,007	1055,661	-2,0%	3,50	1055,621	-2,0%	5,50
131+0.000	-7,70	-2,0%	1055,991	-9,70	-2,0%	1056,031	1055,837	1054,222	752.936,827	8.180.980,567	1055,767	-2,0%	3,50	1055,727	-2,0%	5,50
132+0.000	-7,70	-2,0%	1056,097	-9,70	-2,0%	1056,137	1055,943	1054,276	752.955,343	8.180.988,127	1055,873	-2,0%	3,50	1055,833	-2,0%	5,50
133+0.000	-7,70	-2,0%	1056,203	-9,70	-2,0%	1056,243	1056,049	1054,453	752.973,865	8.180.995,674	1055,977	-2,0%	3,59	1055,937	-2,0%	5,59
134+0.000	-7,70	-0,6%	1056,204	-9,70	-0,6%	1056,217	1056,155	1054,512	752.992,460	8.181.003,036	1056,080	-2,0%	3,77	1056,040	-2,0%	5,77
135+0.000	-7,70	2,1%	1056,098	-9,70	2,1%	1056,055	1056,261	1054,708	753.011,230	8.181.009,940	1056,179	-2,1%	3,89	1056,136	-2,1%	5,89
136+0.000	-7,70	4,9%	1055,991	-9,70	4,9%	1055,894	1056,367	1055,097	753.030,255	8.181.016,102	1056,168	-4,9%	4,07	1056,071	-4,9%	6,07
137+0.000	-7,70	5,8%	1056,025	-9,70	5,8%	1055,909	1056,472	1055,278	753.049,580	8.181.021,244	1056,234	-5,8%	4,10	1056,118	-5,8%	6,10
138+0.000	-7,70	5,8%	1056,131	-9,70	5,8%	1056,015	1056,578	1055,633	753.069,173	8.181.025,243	1056,340	-5,8%	4,10	1056,224	-5,8%	6,10
139+0.000	-7,70	5,8%	1056,237	-9,70	5,8%	1056,121	1056,684	1055,758	753.088,968	8.181.028,082	1056,446	-5,8%	4,10	1056,330	-5,8%	6,10
140+0.000	-7,70	5,8%	1056,343	-9,70	5,8%	1056,227	1056,790	1055,900	753.108,895	8.181.029,753	1056,552	-5,8%	4,10	1056,436	-5,8%	6,10
141+0.000	-7,70	5,8%	1056,449	-9,70	5,8%	1056,333	1056,896	1056,082	753.128,886	8.181.030,250	1056,658	-5,8%	4,10	1056,542	-5,8%	6,10
142+0.000	-7,70	5,8%	1056,555	-9,70	5,8%	1056,439	1057,002	1056,236	753.148,871	8.181.029,570	1056,764	-5,8%	4,10	1056,648	-5,8%	6,10
143+0.000	-7,70	5,8%	1056,661	-9,70	5,8%	1056,545	1057,108	1056,336	753.168,782	8.181.027,717	1056,870	-5,8%	4,10	1056,754	-5,8%	6,10
144+0.000	-7,70	5,8%	1056,751	-9,70	5,8%	1056,635	1057,198	1056,457	753.188,550	8.181.024,697	1056,960	-5,8%	4,10	1056,844	-5,8%	6,10
145+0.000	-7,70	5,8%	1056,809	-9,70	5,8%	1056,693	1057,256	1056,433	753.208,106	8.181.020,519	1057,018	-5,8%	4,10	1056,902	-5,8%	6,10
146+0.000	-7,70	5,8%	1056,837	-9,70	5,8%	1056,721	1057,284	1056,530	753.227,382	8.181.015,199	1057,046	-5,8%	4,10	1056,930	-5,8%	6,10
147+0.000	-7,70	5,8%	1056,833	-9,70	5,8%	1056,717	1057,280	1056,463	753.246,313	8.181.008,755	1057,042	-5,8%	4,10	1056,926	-5,8%	6,10
148+0.000	-7,70	4,7%	1056,884	-9,70	4,7%	1056,790	1057,246	1056,372	753.264,833	8.181.001,212	1057,055	-4,7%	4,06	1056,961	-4,7%	6,06
149+0.000	-7,70	1,9%	1057,032	-9,70	1,9%	1056,993	1057,181	1056,186	753.282,933	8.180.992,708	1057,103	-2,0%	3,88	1057,063	-2,0%	5,88
150+0.000	-7,70	-0,8%	1057,147	-9,70	-0,8%	1057,164	1057,084	1056,070	753.300,695	8.180.983,518	1057,009	-2,0%	3,76	1056,969	-2,0%	5,76
151+0.000	-7,70	-2,0%	1057,111	-9,70	-2,0%	1057,151	1056,957	1055,960	753.318,237	8.180.973,911	1056,885	-2,0%	3,58	1056,845	-2,0%	5,58
152+0.000	-7,70	-2,0%	1056,953	-9,70	-2,0%	1056,993	1056,799	1055,804	753.335,691	8.180.964,146	1056,729	-2,0%	3,50	1056,689	-2,0%	5,50
153+0.000	-7,70	-2,0%	1056,764	-9,70	-2,0%	1056,804	1056,610	1055,472	753.353,140	8.180.954,372	1056,540	-2,0%	3,50	1056,500	-2,0%	5,50
154+0.000	-7,70	-2,0%	1056,543	-9,70	-2,0%	1056,583	1056,389	1055,364	753.370,589	8.180.944,598	1056,319	-2,0%	3,50	1056,279	-2,0%	5,50
155+0.000	-7,70	-2,0%	1056,292	-9,70	-2,0%	1056,332	1056,138	1055,110	753.388,038	8.180.934,824	1056,068	-2,0%	3,50	1056,028	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

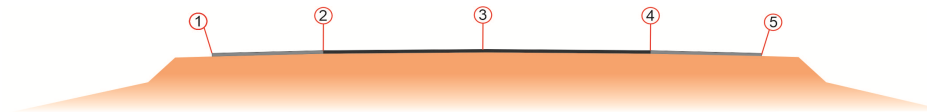
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
156+0.000	-7,70	-2,0%	1056,010	-9,70	-2,0%	1056,050	1055,856	1054,600	753.405,487	8.180.925,049	1055,786	-2,0%	3,50	1055,746	-2,0%	5,50
157+0.000	-7,70	-2,0%	1055,697	-9,70	-2,0%	1055,737	1055,543	1054,218	753.422,936	8.180.915,275	1055,473	-2,0%	3,50	1055,433	-2,0%	5,50
158+0.000	-7,70	-2,0%	1055,353	-9,70	-2,0%	1055,393	1055,199	1053,668	753.440,385	8.180.905,501	1055,129	-2,0%	3,50	1055,089	-2,0%	5,50
159+0.000	-7,70	-2,0%	1054,994	-9,70	-2,0%	1055,034	1054,840	1053,225	753.457,834	8.180.895,727	1054,770	-2,0%	3,50	1054,730	-2,0%	5,50
160+0.000	-7,70	-2,0%	1054,635	-9,70	-2,0%	1054,675	1054,481	1052,762	753.475,283	8.180.885,953	1054,411	-2,0%	3,50	1054,371	-2,0%	5,50
161+0.000	-7,70	-2,0%	1054,276	-9,70	-2,0%	1054,316	1054,122	1052,220	753.492,732	8.180.876,179	1054,052	-2,0%	3,50	1054,012	-2,0%	5,50
162+0.000	-7,70	-2,0%	1053,918	-9,70	-2,0%	1053,958	1053,764	1051,932	753.510,181	8.180.866,405	1053,694	-2,0%	3,50	1053,654	-2,0%	5,50
163+0.000	-7,70	-2,0%	1053,559	-9,70	-2,0%	1053,599	1053,405	1051,589	753.527,630	8.180.856,631	1053,335	-2,0%	3,50	1053,295	-2,0%	5,50
164+0.000	-7,70	-2,0%	1053,200	-9,70	-2,0%	1053,240	1053,046	1051,311	753.545,079	8.180.846,857	1052,976	-2,0%	3,50	1052,936	-2,0%	5,50
165+0.000	-7,70	-2,0%	1052,841	-9,70	-2,0%	1052,881	1052,687	1050,617	753.562,528	8.180.837,083	1052,617	-2,0%	3,50	1052,577	-2,0%	5,50
166+0.000	-7,70	-2,0%	1052,485	-9,70	-2,0%	1052,525	1052,331	1049,675	753.579,977	8.180.827,308	1052,261	-2,0%	3,50	1052,221	-2,0%	5,50
167+0.000	-7,70	-2,0%	1052,181	-9,70	-2,0%	1052,221	1052,027	1048,988	753.597,426	8.180.817,534	1051,957	-2,0%	3,50	1051,917	-2,0%	5,50
168+0.000	-7,70	-2,0%	1051,946	-9,70	-2,0%	1051,986	1051,792	1048,613	753.614,875	8.180.807,760	1051,722	-2,0%	3,50	1051,682	-2,0%	5,50
169+0.000	-7,70	-2,0%	1051,780	-9,70	-2,0%	1051,820	1051,626	1048,540	753.632,323	8.180.797,986	1051,556	-2,0%	3,50	1051,516	-2,0%	5,50
170+0.000	-7,70	-2,0%	1051,683	-9,70	-2,0%	1051,723	1051,529	1048,405	753.649,772	8.180.788,212	1051,459	-2,0%	3,50	1051,419	-2,0%	5,50
171+0.000	-7,70	-2,0%	1051,655	-9,70	-2,0%	1051,695	1051,501	1048,527	753.667,221	8.180.778,438	1051,431	-2,0%	3,50	1051,391	-2,0%	5,50
172+0.000	-7,70	-2,0%	1051,696	-9,70	-2,0%	1051,736	1051,542	1048,912	753.684,670	8.180.768,664	1051,472	-2,0%	3,50	1051,432	-2,0%	5,50
173+0.000	-7,70	-2,0%	1051,802	-9,70	-2,0%	1051,842	1051,648	1049,367	753.702,119	8.180.758,890	1051,578	-2,0%	3,50	1051,538	-2,0%	5,50
174+0.000	-7,70	-2,0%	1051,927	-9,70	-2,0%	1051,967	1051,773	1050,036	753.719,568	8.180.749,116	1051,703	-2,0%	3,50	1051,663	-2,0%	5,50
175+0.000	-7,70	-2,0%	1052,051	-9,70	-2,0%	1052,091	1051,897	1050,486	753.737,017	8.180.739,341	1051,827	-2,0%	3,50	1051,787	-2,0%	5,50
176+0.000	-7,70	-2,0%	1052,175	-9,70	-2,0%	1052,215	1052,021	1050,804	753.754,466	8.180.729,567	1051,951	-2,0%	3,50	1051,911	-2,0%	5,50
177+0.000	-7,70	-2,0%	1052,299	-9,70	-2,0%	1052,339	1052,145	1050,947	753.771,915	8.180.719,793	1052,075	-2,0%	3,50	1052,035	-2,0%	5,50
178+0.000	-7,70	-2,0%	1052,423	-9,70	-2,0%	1052,463	1052,269	1051,130	753.789,364	8.180.710,019	1052,199	-2,0%	3,50	1052,159	-2,0%	5,50
179+0.000	-7,70	-2,0%	1052,547	-9,70	-2,0%	1052,587	1052,393	1051,438	753.806,813	8.180.700,245	1052,323	-2,0%	3,50	1052,283	-2,0%	5,50
180+0.000	-7,70	-2,0%	1052,614	-9,70	-2,0%	1052,654	1052,460	1051,519	753.824,262	8.180.690,471	1052,390	-2,0%	3,50	1052,350	-2,0%	5,50
181+0.000	-7,70	-2,0%	1052,584	-9,70	-2,0%	1052,624	1052,430	1051,325	753.841,711	8.180.680,697	1052,360	-2,0%	3,50	1052,320	-2,0%	5,50
182+0.000	-7,70	-2,0%	1052,459	-9,70	-2,0%	1052,499	1052,305	1050,998	753.859,160	8.180.670,923	1052,235	-2,0%	3,50	1052,195	-2,0%	5,50
183+0.000	-7,70	-2,0%	1052,296	-9,70	-2,0%	1052,336	1052,142	1050,821	753.876,609	8.180.661,149	1052,072	-2,0%	3,50	1052,032	-2,0%	5,50
184+0.000	-7,70	-2,0%	1052,132	-9,70	-2,0%	1052,172	1051,978	1050,710	753.894,058	8.180.651,374	1051,908	-2,0%	3,50	1051,868	-2,0%	5,50
185+0.000	-7,70	-2,0%	1051,968	-9,70	-2,0%	1052,008	1051,814	1050,564	753.911,507	8.180.641,600	1051,744	-2,0%	3,50	1051,704	-2,0%	5,50
186+0.000	-7,70	-2,0%	1051,804	-9,70	-2,0%	1051,844	1051,650	1050,513	753.928,956	8.180.631,826	1051,580	-2,0%	3,50	1051,540	-2,0%	5,50
187+0.000	-7,70	-2,0%	1051,640	-9,70	-2,0%	1051,680	1051,486	1050,464	753.946,405	8.180.622,052	1051,416	-2,0%	3,50	1051,376	-2,0%	5,50
188+0.000	-7,70	-2,0%	1051,476	-9,70	-2,0%	1051,516	1051,322	1050,315	753.963,854	8.180.612,278	1051,252	-2,0%	3,50	1051,212	-2,0%	5,50
189+0.000	-7,70	-2,0%	1051,312	-9,70	-2,0%	1051,352	1051,158	1050,101	753.981,303	8.180.602,504	1051,088	-2,0%	3,50	1051,048	-2,0%	5,50
190+0.000	-7,70	-2,0%	1051,148	-9,70	-2,0%	1051,188	1050,994	1049,978	753.998,752	8.180.592,730	1050,924	-2,0%	3,50	1050,884	-2,0%	5,50
191+0.000	-7,70	-2,0%	1050,984	-9,70	-2,0%	1051,024	1050,830	1049,883	754.016,201	8.180.582,956	1050,760	-2,0%	3,50	1050,720	-2,0%	5,50
192+0.000	-7,70	-2,0%	1050,820	-9,70	-2,0%	1050,860	1050,666	1049,895	754.033,650	8.180.573,182	1050,596	-2,0%	3,50	1050,556	-2,0%	5,50
193+0.000	-7,70	-2,0%	1050,657	-9,70	-2,0%	1050,697	1050,503	1049,708	754.051,099	8.180.563,407	1050,433	-2,0%	3,50	1050,393	-2,0%	5,50
194+0.000	-7,70	-2,0%	1050,493	-9,70	-2,0%	1050,533	1050,339	1049,479	754.068,548	8.180.553,633	1050,269	-2,0%	3,50	1050,229	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

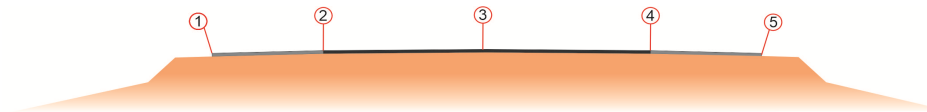
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
195+0.000	-7,70	-2,0%	1050,329	-9,70	-2,0%	1050,369	1050,175	1049,195	754.085,997	8.180.543,859	1050,105	-2,0%	3,50	1050,065	-2,0%	5,50
196+0.000	-7,70	-2,0%	1050,165	-9,70	-2,0%	1050,205	1050,011	1048,870	754.103,446	8.180.534,085	1049,941	-2,0%	3,50	1049,901	-2,0%	5,50
197+0.000	-7,70	-2,0%	1050,001	-9,70	-2,0%	1050,041	1049,847	1048,506	754.120,895	8.180.524,311	1049,777	-2,0%	3,50	1049,737	-2,0%	5,50
198+0.000	-7,70	-2,0%	1049,837	-9,70	-2,0%	1049,877	1049,683	1048,259	754.138,344	8.180.514,537	1049,613	-2,0%	3,50	1049,573	-2,0%	5,50
199+0.000	-7,70	-2,0%	1049,673	-9,70	-2,0%	1049,713	1049,519	1048,120	754.155,793	8.180.504,763	1049,449	-2,0%	3,50	1049,409	-2,0%	5,50
200+0.000	-7,70	-2,0%	1049,509	-9,70	-2,0%	1049,549	1049,355	1048,046	754.173,242	8.180.494,989	1049,285	-2,0%	3,50	1049,245	-2,0%	5,50
201+0.000	-7,70	-2,0%	1049,345	-9,70	-2,0%	1049,385	1049,191	1048,243	754.190,691	8.180.485,215	1049,121	-2,0%	3,50	1049,081	-2,0%	5,50
202+0.000	-7,70	-2,0%	1049,215	-9,70	-2,0%	1049,255	1049,061	1048,475	754.208,140	8.180.475,440	1048,991	-2,0%	3,50	1048,951	-2,0%	5,50
203+0.000	-7,70	-2,0%	1049,151	-9,70	-2,0%	1049,191	1048,997	1048,594	754.225,589	8.180.465,666	1048,927	-2,0%	3,50	1048,887	-2,0%	5,50
204+0.000	-7,70	-2,0%	1049,155	-9,70	-2,0%	1049,195	1049,001	1048,247	754.243,038	8.180.455,892	1048,931	-2,0%	3,50	1048,891	-2,0%	5,50
205+0.000	-7,70	-2,0%	1049,224	-9,70	-2,0%	1049,264	1049,070	1048,143	754.260,487	8.180.446,118	1049,000	-2,0%	3,50	1048,960	-2,0%	5,50
206+0.000	-7,70	-2,0%	1049,327	-9,70	-2,0%	1049,367	1049,173	1048,569	754.277,936	8.180.436,344	1049,103	-2,0%	3,50	1049,063	-2,0%	5,50
207+0.000	-7,70	-2,0%	1049,430	-9,70	-2,0%	1049,470	1049,276	1047,992	754.295,385	8.180.426,570	1049,206	-2,0%	3,50	1049,166	-2,0%	5,50
208+0.000	-7,70	-2,0%	1049,533	-9,70	-2,0%	1049,573	1049,379	1047,970	754.312,834	8.180.416,796	1049,309	-2,0%	3,50	1049,269	-2,0%	5,50
209+0.000	-7,70	-2,0%	1049,636	-9,70	-2,0%	1049,676	1049,482	1048,011	754.330,283	8.180.407,022	1049,412	-2,0%	3,50	1049,372	-2,0%	5,50
210+0.000	-7,70	-2,0%	1049,739	-9,70	-2,0%	1049,779	1049,585	1047,981	754.347,732	8.180.397,248	1049,515	-2,0%	3,50	1049,475	-2,0%	5,50
211+0.000	-7,70	-2,0%	1049,842	-9,70	-2,0%	1049,882	1049,688	1048,075	754.365,181	8.180.387,474	1049,618	-2,0%	3,50	1049,578	-2,0%	5,50
212+0.000	-7,70	-2,0%	1049,944	-9,70	-2,0%	1049,984	1049,790	1048,236	754.382,630	8.180.377,699	1049,720	-2,0%	3,50	1049,680	-2,0%	5,50
213+0.000	-7,70	-2,0%	1050,047	-9,70	-2,0%	1050,087	1049,893	1048,393	754.400,078	8.180.367,925	1049,823	-2,0%	3,50	1049,783	-2,0%	5,50
214+0.000	-7,70	-2,0%	1050,150	-9,70	-2,0%	1050,190	1049,996	1048,666	754.417,527	8.180.358,151	1049,926	-2,0%	3,50	1049,886	-2,0%	5,50
215+0.000	-7,70	-2,0%	1050,253	-9,70	-2,0%	1050,293	1050,099	1048,833	754.434,976	8.180.348,377	1050,029	-2,0%	3,50	1049,989	-2,0%	5,50
216+0.000	-7,70	-2,0%	1050,356	-9,70	-2,0%	1050,396	1050,202	1049,059	754.452,425	8.180.338,603	1050,132	-2,0%	3,50	1050,092	-2,0%	5,50
217+0.000	-7,70	-2,0%	1050,459	-9,70	-2,0%	1050,499	1050,305	1049,185	754.469,874	8.180.328,829	1050,235	-2,0%	3,50	1050,195	-2,0%	5,50
218+0.000	-7,70	-2,0%	1050,562	-9,70	-2,0%	1050,602	1050,408	1049,392	754.487,323	8.180.319,055	1050,338	-2,0%	3,50	1050,298	-2,0%	5,50
219+0.000	-7,70	-2,0%	1050,665	-9,70	-2,0%	1050,705	1050,511	1049,526	754.504,772	8.180.309,281	1050,441	-2,0%	3,50	1050,401	-2,0%	5,50
220+0.000	-7,70	-2,0%	1050,767	-9,70	-2,0%	1050,807	1050,613	1049,460	754.522,221	8.180.299,507	1050,543	-2,0%	3,50	1050,503	-2,0%	5,50
221+0.000	-7,70	-2,0%	1050,870	-9,70	-2,0%	1050,910	1050,716	1049,376	754.539,670	8.180.289,732	1050,646	-2,0%	3,50	1050,606	-2,0%	5,50
222+0.000	-7,70	-2,0%	1050,973	-9,70	-2,0%	1051,013	1050,819	1049,278	754.557,119	8.180.279,958	1050,749	-2,0%	3,50	1050,709	-2,0%	5,50
223+0.000	-7,70	-2,0%	1051,076	-9,70	-2,0%	1051,116	1050,922	1049,094	754.574,568	8.180.270,184	1050,852	-2,0%	3,50	1050,812	-2,0%	5,50
224+0.000	-7,70	-2,0%	1051,179	-9,70	-2,0%	1051,219	1051,025	1048,991	754.592,017	8.180.260,410	1050,955	-2,0%	3,50	1050,915	-2,0%	5,50
225+0.000	-7,70	-2,0%	1051,282	-9,70	-2,0%	1051,322	1051,128	1048,942	754.609,466	8.180.250,636	1051,058	-2,0%	3,50	1051,018	-2,0%	5,50
226+0.000	-7,70	-2,0%	1051,385	-9,70	-2,0%	1051,425	1051,231	1048,956	754.626,915	8.180.240,862	1051,161	-2,0%	3,50	1051,121	-2,0%	5,50
227+0.000	-7,70	-2,0%	1051,485	-9,70	-2,0%	1051,525	1051,331	1048,927	754.644,364	8.180.231,088	1051,261	-2,0%	3,50	1051,221	-2,0%	5,50
228+0.000	-7,70	-2,0%	1051,558	-9,70	-2,0%	1051,598	1051,404	1048,898	754.661,813	8.180.221,314	1051,334	-2,0%	3,50	1051,294	-2,0%	5,50
229+0.000	-7,70	-2,0%	1051,595	-9,70	-2,0%	1051,635	1051,441	1048,897	754.679,262	8.180.211,540	1051,371	-2,0%	3,50	1051,331	-2,0%	5,50
230+0.000	-7,70	-2,0%	1051,596	-9,70	-2,0%	1051,636	1051,442	1048,978	754.696,711	8.180.201,765	1051,372	-2,0%	3,50	1051,332	-2,0%	5,50
231+0.000	-7,70	-2,0%	1051,562	-9,70	-2,0%	1051,602	1051,408	1049,014	754.714,160	8.180.191,991	1051,338	-2,0%	3,50	1051,298	-2,0%	5,50
232+0.000	-7,70	-2,0%	1051,493	-9,70	-2,0%	1051,533	1051,339	1049,163	754.731,609	8.180.182,217	1051,269	-2,0%	3,50	1051,229	-2,0%	5,50
233+0.000	-7,70	-2,0%	1051,390	-9,70	-2,0%	1051,430	1051,236	1049,125	754.749,058	8.180.172,443	1051,166	-2,0%	3,50	1051,126	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

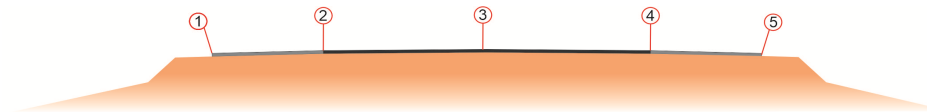
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
234+0.000	-7,70	-2,0%	1051,280	-9,70	-2,0%	1051,320	1051,126	1048,879	754.766,507	8.180.162,669	1051,056	-2,0%	3,50	1051,016	-2,0%	5,50
235+0.000	-7,70	-2,0%	1051,169	-9,70	-2,0%	1051,209	1051,015	1048,362	754.783,956	8.180.152,895	1050,945	-2,0%	3,50	1050,905	-2,0%	5,50
236+0.000	-7,70	-2,0%	1051,059	-9,70	-2,0%	1051,099	1050,905	1047,662	754.801,405	8.180.143,121	1050,835	-2,0%	3,50	1050,795	-2,0%	5,50
237+0.000	-7,70	-2,0%	1050,949	-9,70	-2,0%	1050,989	1050,795	1047,654	754.818,854	8.180.133,347	1050,725	-2,0%	3,50	1050,685	-2,0%	5,50
238+0.000	-7,70	-2,0%	1050,839	-9,70	-2,0%	1050,879	1050,685	1047,902	754.836,303	8.180.123,573	1050,615	-2,0%	3,50	1050,575	-2,0%	5,50
239+0.000	-7,70	-2,0%	1050,732	-9,70	-2,0%	1050,772	1050,578	1048,311	754.853,752	8.180.113,798	1050,508	-2,0%	3,50	1050,468	-2,0%	5,50
240+0.000	-7,70	-2,0%	1050,669	-9,70	-2,0%	1050,709	1050,515	1048,876	754.871,201	8.180.104,024	1050,445	-2,0%	3,50	1050,405	-2,0%	5,50
241+0.000	-7,70	-2,0%	1050,659	-9,70	-2,0%	1050,699	1050,505	1049,727	754.888,650	8.180.094,250	1050,435	-2,0%	3,50	1050,395	-2,0%	5,50
242+0.000	-7,70	-2,0%	1050,703	-9,70	-2,0%	1050,743	1050,549	1050,310	754.906,099	8.180.084,476	1050,479	-2,0%	3,50	1050,439	-2,0%	5,50
243+0.000	-7,84	-2,0%	1050,803	-9,84	-2,0%	1050,843	1050,646	1050,905	754.923,569	8.180.074,740	1050,576	-2,0%	3,50	1050,536	-2,0%	5,50
244+0.000	-8,00	-2,0%	1050,956	-10,00	-2,0%	1050,996	1050,796	1051,061	754.941,174	8.180.065,251	1050,802	0,2%	3,50	1050,805	0,2%	5,50
245+0.000	-8,15	-2,9%	1051,235	-10,15	-2,9%	1051,293	1050,997	1050,996	754.959,044	8.180.056,273	1051,099	2,9%	3,50	1051,158	2,9%	5,50
246+0.000	-8,30	-5,7%	1051,679	-10,30	-5,7%	1051,793	1051,207	1050,984	754.977,288	8.180.048,081	1051,406	5,7%	3,50	1051,520	5,7%	5,50
247+0.000	-8,30	-5,8%	1051,899	-10,30	-5,8%	1052,015	1051,418	1051,083	754.995,960	8.180.040,925	1051,621	5,8%	3,50	1051,737	5,8%	5,50
248+0.000	-8,30	-5,8%	1052,110	-10,30	-5,8%	1052,226	1051,629	1051,133	755.015,021	8.180.034,878	1051,832	5,8%	3,50	1051,948	5,8%	5,50
249+0.000	-8,30	-5,8%	1052,320	-10,30	-5,8%	1052,436	1051,839	1051,369	755.034,405	8.180.029,963	1052,042	5,8%	3,50	1052,158	5,8%	5,50
250+0.000	-8,30	-5,8%	1052,531	-10,30	-5,8%	1052,647	1052,050	1050,752	755.054,044	8.180.026,196	1052,253	5,8%	3,50	1052,369	5,8%	5,50
251+0.000	-8,30	-5,8%	1052,742	-10,30	-5,8%	1052,858	1052,261	1050,521	755.073,871	8.180.023,590	1052,464	5,8%	3,50	1052,580	5,8%	5,50
252+0.000	-8,30	-5,8%	1052,952	-10,30	-5,8%	1053,068	1052,471	1050,613	755.093,816	8.180.022,154	1052,674	5,8%	3,50	1052,790	5,8%	5,50
253+0.000	-8,30	-5,8%	1053,163	-10,30	-5,8%	1053,279	1052,682	1050,816	755.113,812	8.180.021,893	1052,885	5,8%	3,50	1053,001	5,8%	5,50
254+0.000	-8,30	-5,8%	1053,373	-10,30	-5,8%	1053,489	1052,892	1051,076	755.133,788	8.180.022,808	1053,095	5,8%	3,50	1053,211	5,8%	5,50
255+0.000	-8,30	-5,8%	1053,584	-10,30	-5,8%	1053,700	1053,103	1051,428	755.153,676	8.180.024,896	1053,306	5,8%	3,50	1053,422	5,8%	5,50
256+0.000	-8,30	-5,8%	1053,795	-10,30	-5,8%	1053,911	1053,314	1051,877	755.173,406	8.180.028,149	1053,517	5,8%	3,50	1053,633	5,8%	5,50
257+0.000	-8,30	-5,8%	1054,005	-10,30	-5,8%	1054,121	1053,524	1052,014	755.192,912	8.180.032,557	1053,727	5,8%	3,50	1053,843	5,8%	5,50
258+0.000	-8,30	-5,8%	1054,216	-10,30	-5,8%	1054,332	1053,735	1052,074	755.212,124	8.180.038,104	1053,938	5,8%	3,50	1054,054	5,8%	5,50
259+0.000	-8,30	-5,8%	1054,427	-10,30	-5,8%	1054,543	1053,946	1052,439	755.230,977	8.180.044,770	1054,149	5,8%	3,50	1054,265	5,8%	5,50
260+0.000	-8,30	-5,8%	1054,637	-10,30	-5,8%	1054,753	1054,156	1052,986	755.249,406	8.180.052,534	1054,359	5,8%	3,50	1054,475	5,8%	5,50
261+0.000	-8,27	-4,9%	1054,771	-10,27	-4,9%	1054,869	1054,367	1053,255	755.267,347	8.180.061,366	1054,538	4,9%	3,50	1054,636	4,9%	5,50
262+0.000	-8,09	-2,1%	1054,749	-10,09	-2,1%	1054,792	1054,578	1053,598	755.284,793	8.180.071,140	1054,652	2,1%	3,50	1054,695	2,1%	5,50
263+0.000	-7,97	-2,0%	1054,947	-9,97	-2,0%	1054,987	1054,788	1053,866	755.301,844	8.180.081,592	1054,766	-0,6%	3,50	1054,753	-0,6%	5,50
264+0.000	-7,79	-2,0%	1055,155	-9,79	-2,0%	1055,195	1054,999	1053,879	755.318,633	8.180.092,460	1054,929	-2,0%	3,50	1054,889	-2,0%	5,50
265+0.000	-7,70	-2,0%	1055,363	-9,70	-2,0%	1055,403	1055,209	1054,023	755.335,314	8.180.103,494	1055,139	-2,0%	3,50	1055,099	-2,0%	5,50
266+0.000	-7,70	-2,0%	1055,574	-9,70	-2,0%	1055,614	1055,420	1054,273	755.351,987	8.180.114,540	1055,350	-2,0%	3,50	1055,310	-2,0%	5,50
267+0.000	-7,70	-2,0%	1055,785	-9,70	-2,0%	1055,825	1055,631	1054,558	755.368,660	8.180.125,586	1055,561	-2,0%	3,50	1055,521	-2,0%	5,50
268+0.000	-7,70	-2,0%	1055,995	-9,70	-2,0%	1056,035	1055,841	1054,783	755.385,333	8.180.136,632	1055,771	-2,0%	3,50	1055,731	-2,0%	5,50
269+0.000	-7,70	-2,0%	1056,206	-9,70	-2,0%	1056,246	1056,052	1055,672	755.402,006	8.180.147,678	1055,982	-2,0%	3,50	1055,942	-2,0%	5,50
270+0.000	-7,70	-2,0%	1056,417	-9,70	-2,0%	1056,457	1056,263	1055,500	755.418,679	8.180.158,724	1056,193	-2,0%	3,50	1056,153	-2,0%	5,50
271+0.000	-7,70	-2,0%	1056,627	-9,70	-2,0%	1056,667	1056,473	1055,477	755.435,351	8.180.169,771	1056,403	-2,0%	3,50	1056,363	-2,0%	5,50
272+0.000	-7,70	-2,0%	1056,838	-9,70	-2,0%	1056,878	1056,684	1055,481	755.452,024	8.180.180,817	1056,614	-2,0%	3,50	1056,574	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

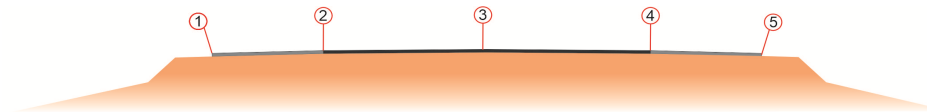
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
273+0.000	-7,70	-2,0%	1057,049	-9,70	-2,0%	1057,089	1056,895	1055,635	755.468,697	8.180.191,863	1056,825	-2,0%	3,50	1056,785	-2,0%	5,50
274+0.000	-7,70	-2,0%	1057,259	-9,70	-2,0%	1057,299	1057,105	1055,800	755.485,370	8.180.202,909	1057,035	-2,0%	3,50	1056,995	-2,0%	5,50
275+0.000	-7,70	-2,0%	1057,470	-9,70	-2,0%	1057,510	1057,316	1056,016	755.502,043	8.180.213,955	1057,246	-2,0%	3,50	1057,206	-2,0%	5,50
276+0.000	-7,70	-2,0%	1057,680	-9,70	-2,0%	1057,720	1057,526	1056,079	755.518,715	8.180.225,001	1057,456	-2,0%	3,50	1057,416	-2,0%	5,50
277+0.000	-7,70	-2,0%	1057,891	-9,70	-2,0%	1057,931	1057,737	1056,255	755.535,388	8.180.236,047	1057,667	-2,0%	3,50	1057,627	-2,0%	5,50
278+0.000	-7,70	-2,0%	1058,102	-9,70	-2,0%	1058,142	1057,948	1056,533	755.552,061	8.180.247,093	1057,878	-2,0%	3,50	1057,838	-2,0%	5,50
279+0.000	-7,70	-2,0%	1058,312	-9,70	-2,0%	1058,352	1058,158	1056,708	755.568,734	8.180.258,140	1058,088	-2,0%	3,50	1058,048	-2,0%	5,50
280+0.000	-7,70	-2,0%	1058,523	-9,70	-2,0%	1058,563	1058,369	1056,979	755.585,407	8.180.269,186	1058,299	-2,0%	3,50	1058,259	-2,0%	5,50
281+0.000	-7,70	-2,0%	1058,734	-9,70	-2,0%	1058,774	1058,580	1057,295	755.602,080	8.180.280,232	1058,510	-2,0%	3,50	1058,470	-2,0%	5,50
282+0.000	-7,70	-2,0%	1058,944	-9,70	-2,0%	1058,984	1058,790	1057,587	755.618,752	8.180.291,278	1058,720	-2,0%	3,50	1058,680	-2,0%	5,50
283+0.000	-7,70	-2,0%	1059,155	-9,70	-2,0%	1059,195	1059,001	1057,970	755.635,425	8.180.302,324	1058,931	-2,0%	3,50	1058,891	-2,0%	5,50
284+0.000	-7,70	-2,0%	1059,366	-9,70	-2,0%	1059,406	1059,212	1058,116	755.652,098	8.180.313,370	1059,142	-2,0%	3,50	1059,102	-2,0%	5,50
285+0.000	-7,70	-2,0%	1059,576	-9,70	-2,0%	1059,616	1059,422	1058,420	755.668,771	8.180.324,416	1059,352	-2,0%	3,50	1059,312	-2,0%	5,50
286+0.000	-7,70	-2,0%	1059,787	-9,70	-2,0%	1059,827	1059,633	1058,679	755.685,444	8.180.335,462	1059,563	-2,0%	3,50	1059,523	-2,0%	5,50
287+0.000	-7,70	-2,0%	1059,997	-9,70	-2,0%	1060,037	1059,843	1058,924	755.702,117	8.180.346,509	1059,773	-2,0%	3,50	1059,733	-2,0%	5,50
288+0.000	-7,70	-2,0%	1060,208	-9,70	-2,0%	1060,248	1060,054	1059,108	755.718,789	8.180.357,555	1059,984	-2,0%	3,50	1059,944	-2,0%	5,50
289+0.000	-7,70	-2,0%	1060,419	-9,70	-2,0%	1060,459	1060,265	1059,386	755.735,462	8.180.368,601	1060,195	-2,0%	3,50	1060,155	-2,0%	5,50
290+0.000	-7,70	-2,0%	1060,629	-9,70	-2,0%	1060,669	1060,475	1059,586	755.752,135	8.180.379,647	1060,405	-2,0%	3,50	1060,365	-2,0%	5,50
291+0.000	-7,70	-2,0%	1060,840	-9,70	-2,0%	1060,880	1060,686	1059,950	755.768,808	8.180.390,693	1060,616	-2,0%	3,50	1060,576	-2,0%	5,50
292+0.000	-7,70	-2,0%	1061,051	-9,70	-2,0%	1061,091	1060,897	1060,191	755.785,481	8.180.401,739	1060,827	-2,0%	3,50	1060,787	-2,0%	5,50
293+0.000	-7,70	-2,0%	1061,261	-9,70	-2,0%	1061,301	1061,107	1060,078	755.802,153	8.180.412,785	1061,037	-2,0%	3,50	1060,997	-2,0%	5,50
294+0.000	-7,70	-2,0%	1061,471	-9,70	-2,0%	1061,511	1061,317	1060,171	755.818,826	8.180.423,831	1061,247	-2,0%	3,50	1061,207	-2,0%	5,50
295+0.000	-7,70	-2,0%	1061,659	-9,70	-2,0%	1061,699	1061,505	1060,337	755.835,499	8.180.434,878	1061,435	-2,0%	3,50	1061,395	-2,0%	5,50
296+0.000	-7,70	-2,0%	1061,819	-9,70	-2,0%	1061,859	1061,665	1060,423	755.852,172	8.180.445,924	1061,595	-2,0%	3,50	1061,555	-2,0%	5,50
297+0.000	-7,70	-2,0%	1061,950	-9,70	-2,0%	1061,990	1061,796	1060,457	755.868,845	8.180.456,970	1061,726	-2,0%	3,50	1061,686	-2,0%	5,50
298+0.000	-7,70	-2,0%	1062,052	-9,70	-2,0%	1062,092	1061,898	1060,550	755.885,518	8.180.468,016	1061,828	-2,0%	3,50	1061,788	-2,0%	5,50
299+0.000	-7,70	-2,0%	1062,126	-9,70	-2,0%	1062,166	1061,972	1060,630	755.902,190	8.180.479,062	1061,902	-2,0%	3,50	1061,862	-2,0%	5,50
300+0.000	-7,70	-2,0%	1062,171	-9,70	-2,0%	1062,211	1062,017	1060,649	755.918,863	8.180.490,108	1061,947	-2,0%	3,50	1061,907	-2,0%	5,50
301+0.000	-7,70	-2,0%	1062,188	-9,70	-2,0%	1062,228	1062,034	1060,561	755.935,536	8.180.501,154	1061,964	-2,0%	3,50	1061,924	-2,0%	5,50
302+0.000	-7,70	-2,0%	1062,176	-9,70	-2,0%	1062,216	1062,022	1060,486	755.952,209	8.180.512,200	1061,952	-2,0%	3,50	1061,912	-2,0%	5,50
303+0.000	-7,70	-2,0%	1062,135	-9,70	-2,0%	1062,175	1061,981	1060,400	755.968,882	8.180.523,247	1061,911	-2,0%	3,50	1061,871	-2,0%	5,50
304+0.000	-7,70	-2,0%	1062,066	-9,70	-2,0%	1062,106	1061,912	1060,410	755.985,555	8.180.534,293	1061,842	-2,0%	3,50	1061,802	-2,0%	5,50
305+0.000	-7,70	-2,0%	1061,968	-9,70	-2,0%	1062,008	1061,814	1060,161	756.002,227	8.180.545,339	1061,744	-2,0%	3,50	1061,704	-2,0%	5,50
306+0.000	-7,70	-2,0%	1061,841	-9,70	-2,0%	1061,881	1061,687	1060,034	756.018,900	8.180.556,385	1061,617	-2,0%	3,50	1061,577	-2,0%	5,50
307+0.000	-7,70	-2,0%	1061,686	-9,70	-2,0%	1061,726	1061,532	1060,224	756.035,573	8.180.567,431	1061,462	-2,0%	3,50	1061,422	-2,0%	5,50
308+0.000	-7,70	-2,0%	1061,502	-9,70	-2,0%	1061,542	1061,348	1059,871	756.052,246	8.180.578,477	1061,278	-2,0%	3,50	1061,238	-2,0%	5,50
309+0.000	-7,70	-2,0%	1061,289	-9,70	-2,0%	1061,329	1061,135	1059,642	756.068,919	8.180.589,523	1061,065	-2,0%	3,50	1061,025	-2,0%	5,50
310+0.000	-7,70	-2,0%	1061,048	-9,70	-2,0%	1061,088	1060,894	1059,394	756.085,591	8.180.600,570	1060,824	-2,0%	3,50	1060,784	-2,0%	5,50
311+0.000	-7,70	-2,0%	1060,778	-9,70	-2,0%	1060,818	1060,624	1059,163	756.102,264	8.180.611,616	1060,554	-2,0%	3,50	1060,514	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

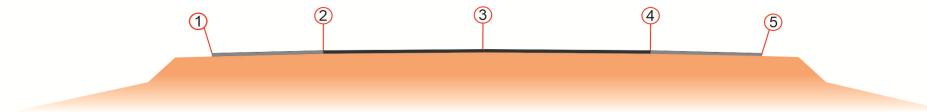
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
312+0.000	-7,70	-2,0%	1060,480	-9,70	-2,0%	1060,520	1060,326	1058,990	756.118,937	8.180.622,662	1060,256	-2,0%	3,50	1060,216	-2,0%	5,50
313+0.000	-7,70	-2,0%	1060,153	-9,70	-2,0%	1060,193	1059,999	1058,822	756.135,610	8.180.633,708	1059,929	-2,0%	3,50	1059,889	-2,0%	5,50
314+0.000	-7,70	-2,0%	1059,799	-9,70	-2,0%	1059,839	1059,645	1058,578	756.152,283	8.180.644,754	1059,575	-2,0%	3,50	1059,535	-2,0%	5,50
315+0.000	-7,70	-2,0%	1059,437	-9,70	-2,0%	1059,477	1059,283	1058,263	756.168,956	8.180.655,800	1059,213	-2,0%	3,50	1059,173	-2,0%	5,50
316+0.000	-7,70	-2,0%	1059,075	-9,70	-2,0%	1059,115	1058,921	1058,053	756.185,628	8.180.666,846	1058,851	-2,0%	3,50	1058,811	-2,0%	5,50
317+0.000	-7,70	-2,0%	1058,713	-9,70	-2,0%	1058,753	1058,559	1057,672	756.202,301	8.180.677,892	1058,489	-2,0%	3,50	1058,449	-2,0%	5,50
318+0.000	-7,70	-2,0%	1058,351	-9,70	-2,0%	1058,391	1058,197	1057,083	756.218,974	8.180.688,939	1058,127	-2,0%	3,50	1058,087	-2,0%	5,50
319+0.000	-7,70	-2,0%	1057,989	-9,70	-2,0%	1058,029	1057,835	1056,796	756.235,647	8.180.699,985	1057,765	-2,0%	3,50	1057,725	-2,0%	5,50
320+0.000	-7,70	-2,0%	1057,627	-9,70	-2,0%	1057,667	1057,473	1056,578	756.252,320	8.180.711,031	1057,403	-2,0%	3,50	1057,363	-2,0%	5,50
321+0.000	-7,70	-2,0%	1057,265	-9,70	-2,0%	1057,305	1057,111	1056,105	756.268,993	8.180.722,077	1057,041	-2,0%	3,50	1057,001	-2,0%	5,50
322+0.000	-7,70	-2,0%	1056,903	-9,70	-2,0%	1056,943	1056,749	1055,610	756.285,665	8.180.733,123	1056,679	-2,0%	3,50	1056,639	-2,0%	5,50
323+0.000	-7,70	-2,0%	1056,541	-9,70	-2,0%	1056,581	1056,387	1055,133	756.302,338	8.180.744,169	1056,317	-2,0%	3,50	1056,277	-2,0%	5,50
324+0.000	-7,70	-2,0%	1056,179	-9,70	-2,0%	1056,219	1056,025	1054,901	756.319,011	8.180.755,215	1055,955	-2,0%	3,50	1055,915	-2,0%	5,50
325+0.000	-7,70	-2,0%	1055,817	-9,70	-2,0%	1055,857	1055,663	1054,546	756.335,684	8.180.766,261	1055,593	-2,0%	3,50	1055,553	-2,0%	5,50
326+0.000	-7,70	-2,0%	1055,455	-9,70	-2,0%	1055,495	1055,301	1054,261	756.352,357	8.180.777,308	1055,231	-2,0%	3,50	1055,191	-2,0%	5,50
327+0.000	-7,70	-2,0%	1055,093	-9,70	-2,0%	1055,133	1054,939	1054,186	756.369,029	8.180.788,354	1054,869	-2,0%	3,50	1054,829	-2,0%	5,50
328+0.000	-7,70	-2,0%	1054,731	-9,70	-2,0%	1054,771	1054,577	1053,695	756.385,702	8.180.799,400	1054,507	-2,0%	3,50	1054,467	-2,0%	5,50
329+0.000	-7,70	-2,0%	1054,369	-9,70	-2,0%	1054,409	1054,215	1053,551	756.402,375	8.180.810,446	1054,145	-2,0%	3,50	1054,105	-2,0%	5,50
330+0.000	-7,70	-2,0%	1054,007	-9,70	-2,0%	1054,047	1053,853	1052,780	756.419,048	8.180.821,492	1053,783	-2,0%	3,50	1053,743	-2,0%	5,50
331+0.000	-7,70	-2,0%	1053,645	-9,70	-2,0%	1053,685	1053,491	1052,037	756.435,721	8.180.832,538	1053,421	-2,0%	3,50	1053,381	-2,0%	5,50
332+0.000	-7,70	-2,0%	1053,283	-9,70	-2,0%	1053,323	1053,129	1051,657	756.452,394	8.180.843,584	1053,059	-2,0%	3,50	1053,019	-2,0%	5,50
333+0.000	-7,70	-2,0%	1052,921	-9,70	-2,0%	1052,961	1052,767	1051,337	756.469,066	8.180.854,630	1052,697	-2,0%	3,50	1052,657	-2,0%	5,50
334+0.000	-7,70	-2,0%	1052,560	-9,70	-2,0%	1052,600	1052,406	1050,834	756.485,739	8.180.865,677	1052,336	-2,0%	3,50	1052,296	-2,0%	5,50
335+0.000	-7,70	-2,0%	1052,198	-9,70	-2,0%	1052,238	1052,044	1050,544	756.502,412	8.180.876,723	1051,974	-2,0%	3,50	1051,934	-2,0%	5,50
336+0.000	-7,70	-2,0%	1051,836	-9,70	-2,0%	1051,876	1051,682	1050,268	756.519,085	8.180.887,769	1051,612	-2,0%	3,50	1051,572	-2,0%	5,50
337+0.000	-7,70	-2,0%	1051,474	-9,70	-2,0%	1051,514	1051,320	1050,027	756.535,758	8.180.898,815	1051,250	-2,0%	3,50	1051,210	-2,0%	5,50
338+0.000	-7,70	-2,0%	1051,112	-9,70	-2,0%	1051,152	1050,958	1049,705	756.552,431	8.180.909,861	1050,888	-2,0%	3,50	1050,848	-2,0%	5,50
339+0.000	-7,70	-2,0%	1050,750	-9,70	-2,0%	1050,790	1050,596	1049,456	756.569,103	8.180.920,907	1050,526	-2,0%	3,50	1050,486	-2,0%	5,50
340+0.000	-7,70	-2,0%	1050,388	-9,70	-2,0%	1050,428	1050,234	1049,151	756.585,776	8.180.931,953	1050,164	-2,0%	3,50	1050,124	-2,0%	5,50
341+0.000	-7,70	-2,0%	1050,026	-9,70	-2,0%	1050,066	1049,872	1048,323	756.602,449	8.180.942,999	1049,802	-2,0%	3,50	1049,762	-2,0%	5,50
342+0.000	-7,70	-2,0%	1049,664	-9,70	-2,0%	1049,704	1049,510	1047,859	756.619,122	8.180.954,046	1049,440	-2,0%	3,50	1049,400	-2,0%	5,50
343+0.000	-7,70	-2,0%	1049,302	-9,70	-2,0%	1049,342	1049,148	1047,569	756.635,802	8.180.965,091	1049,078	-2,0%	3,50	1049,038	-2,0%	5,50
344+0.000	-7,70	-2,0%	1048,940	-9,70	-2,0%	1048,980	1048,786	1047,479	756.652,543	8.180.976,023	1048,716	-2,0%	3,50	1048,676	-2,0%	5,50
345+0.000	-7,70	-2,0%	1048,578	-9,70	-2,0%	1048,618	1048,424	1046,961	756.669,357	8.180.986,854	1048,354	-2,0%	3,50	1048,314	-2,0%	5,50
346+0.000	-7,70	-2,0%	1048,216	-9,70	-2,0%	1048,256	1048,062	1046,579	756.686,242	8.180.997,571	1047,992	-2,0%	3,50	1047,952	-2,0%	5,50
347+0.000	-7,70	-2,0%	1047,854	-9,70	-2,0%	1047,894	1047,700	1046,340	756.703,199	8.181.008,176	1047,630	-2,0%	3,50	1047,590	-2,0%	5,50
348+0.000	-7,70	-2,0%	1047,501	-9,70	-2,0%	1047,541	1047,347	1046,037	756.720,226	8.181.018,668	1047,277	-2,0%	3,50	1047,237	-2,0%	5,50
349+0.000	-7,70	-2,0%	1047,172	-9,70	-2,0%	1047,212	1047,018	1045,937	756.737,313	8.181.029,062	1046,948	-2,0%	3,50	1046,908	-2,0%	5,50
350+0.000	-7,70	-2,0%	1046,869	-9,70	-2,0%	1046,909	1046,715	1045,829	756.754,408	8.181.039,444	1046,645	-2,0%	3,50	1046,605	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

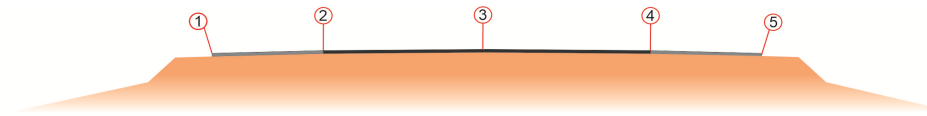
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
351+0.000	-7,70	-2,0%	1046,581	-9,70	-2,0%	1046,621	1046,427	1045,454	756.771,502	8.181.049,825	1046,357	-2,0%	3,50	1046,317	-2,0%	5,50
352+0.000	-7,70	-2,0%	1046,294	-9,70	-2,0%	1046,334	1046,140	1045,116	756.788,597	8.181.060,206	1046,070	-2,0%	3,50	1046,030	-2,0%	5,50
353+0.000	-7,70	-2,0%	1046,007	-9,70	-2,0%	1046,047	1045,853	1044,899	756.805,692	8.181.070,588	1045,783	-2,0%	3,50	1045,743	-2,0%	5,50
354+0.000	-7,70	-2,0%	1045,720	-9,70	-2,0%	1045,760	1045,566	1044,724	756.822,786	8.181.080,969	1045,496	-2,0%	3,50	1045,456	-2,0%	5,50
355+0.000	-7,70	-2,0%	1045,433	-9,70	-2,0%	1045,473	1045,279	1044,264	756.839,881	8.181.091,351	1045,209	-2,0%	3,50	1045,169	-2,0%	5,50
356+0.000	-7,70	-2,0%	1045,146	-9,70	-2,0%	1045,186	1044,992	1043,820	756.856,976	8.181.101,732	1044,922	-2,0%	3,50	1044,882	-2,0%	5,50
357+0.000	-7,70	-2,0%	1044,859	-9,70	-2,0%	1044,899	1044,705	1043,548	756.874,070	8.181.112,113	1044,635	-2,0%	3,50	1044,595	-2,0%	5,50
358+0.000	-7,70	-2,0%	1044,571	-9,70	-2,0%	1044,611	1044,417	1043,226	756.891,165	8.181.122,495	1044,347	-2,0%	3,50	1044,307	-2,0%	5,50
359+0.000	-7,70	-2,0%	1044,284	-9,70	-2,0%	1044,324	1044,130	1043,001	756.908,259	8.181.132,876	1044,060	-2,0%	3,50	1044,020	-2,0%	5,50
360+0.000	-7,70	-2,0%	1043,997	-9,70	-2,0%	1044,037	1043,843	1042,877	756.925,354	8.181.143,258	1043,773	-2,0%	3,50	1043,733	-2,0%	5,50
361+0.000	-7,70	-2,0%	1043,710	-9,70	-2,0%	1043,750	1043,556	1042,551	756.942,449	8.181.153,639	1043,486	-2,0%	3,50	1043,446	-2,0%	5,50
362+0.000	-7,70	-2,0%	1043,423	-9,70	-2,0%	1043,463	1043,269	1042,182	756.959,543	8.181.164,020	1043,199	-2,0%	3,50	1043,159	-2,0%	5,50
363+0.000	-7,70	-2,0%	1043,136	-9,70	-2,0%	1043,176	1042,982	1041,898	756.976,638	8.181.174,402	1042,912	-2,0%	3,50	1042,872	-2,0%	5,50
364+0.000	-7,70	-2,0%	1042,849	-9,70	-2,0%	1042,889	1042,695	1041,820	756.993,733	8.181.184,783	1042,625	-2,0%	3,50	1042,585	-2,0%	5,50
365+0.000	-7,70	-2,0%	1042,562	-9,70	-2,0%	1042,602	1042,408	1041,405	757.010,827	8.181.195,165	1042,338	-2,0%	3,50	1042,298	-2,0%	5,50
366+0.000	-7,70	-2,0%	1042,274	-9,70	-2,0%	1042,314	1042,120	1041,135	757.027,922	8.181.205,546	1042,050	-2,0%	3,50	1042,010	-2,0%	5,50
367+0.000	-7,70	-2,0%	1041,987	-9,70	-2,0%	1042,027	1041,833	1040,937	757.045,017	8.181.215,927	1041,763	-2,0%	3,50	1041,723	-2,0%	5,50
368+0.000	-7,70	-2,0%	1041,700	-9,70	-2,0%	1041,740	1041,546	1040,564	757.062,111	8.181.226,309	1041,476	-2,0%	3,50	1041,436	-2,0%	5,50
369+0.000	-7,70	-2,0%	1041,413	-9,70	-2,0%	1041,453	1041,259	1040,194	757.079,206	8.181.236,690	1041,189	-2,0%	3,50	1041,149	-2,0%	5,50
370+0.000	-7,70	-2,0%	1041,126	-9,70	-2,0%	1041,166	1040,972	1039,877	757.096,300	8.181.247,072	1040,902	-2,0%	3,50	1040,862	-2,0%	5,50
371+0.000	-7,70	-2,0%	1040,839	-9,70	-2,0%	1040,879	1040,685	1039,557	757.113,395	8.181.257,453	1040,615	-2,0%	3,50	1040,575	-2,0%	5,50
372+0.000	-7,70	-2,0%	1040,552	-9,70	-2,0%	1040,592	1040,398	1039,105	757.130,490	8.181.267,834	1040,328	-2,0%	3,50	1040,288	-2,0%	5,50
373+0.000	-7,70	-2,0%	1040,265	-9,70	-2,0%	1040,305	1040,111	1038,767	757.147,584	8.181.278,216	1040,041	-2,0%	3,50	1040,001	-2,0%	5,50
374+0.000	-7,70	-2,0%	1039,977	-9,70	-2,0%	1040,017	1039,823	1038,643	757.164,679	8.181.288,597	1039,753	-2,0%	3,50	1039,713	-2,0%	5,50
375+0.000	-7,70	-2,0%	1039,709	-9,70	-2,0%	1039,749	1039,555	1038,373	757.181,774	8.181.298,979	1039,485	-2,0%	3,50	1039,445	-2,0%	5,50
376+0.000	-7,70	-2,0%	1039,496	-9,70	-2,0%	1039,536	1039,342	1038,053	757.198,868	8.181.309,360	1039,272	-2,0%	3,50	1039,232	-2,0%	5,50
377+0.000	-7,70	-2,0%	1039,340	-9,70	-2,0%	1039,380	1039,186	1037,812	757.215,963	8.181.319,741	1039,116	-2,0%	3,50	1039,076	-2,0%	5,50
378+0.000	-7,70	-2,0%	1039,224	-9,70	-2,0%	1039,264	1039,070	1037,653	757.233,058	8.181.330,123	1039,000	-2,0%	3,50	1038,960	-2,0%	5,50
379+0.000	-7,70	-2,0%	1039,109	-9,70	-2,0%	1039,149	1038,955	1037,443	757.250,152	8.181.340,504	1038,885	-2,0%	3,50	1038,845	-2,0%	5,50
380+0.000	-7,70	-2,0%	1038,994	-9,70	-2,0%	1039,034	1038,840	1037,159	757.267,247	8.181.350,886	1038,770	-2,0%	3,50	1038,730	-2,0%	5,50
381+0.000	-7,70	-2,0%	1038,878	-9,70	-2,0%	1038,918	1038,724	1036,990	757.284,342	8.181.361,267	1038,654	-2,0%	3,50	1038,614	-2,0%	5,50
382+0.000	-7,70	-2,0%	1038,763	-9,70	-2,0%	1038,803	1038,609	1036,943	757.301,436	8.181.371,648	1038,539	-2,0%	3,50	1038,499	-2,0%	5,50
383+0.000	-7,70	-2,0%	1038,648	-9,70	-2,0%	1038,688	1038,494	1036,900	757.318,531	8.181.382,030	1038,424	-2,0%	3,50	1038,384	-2,0%	5,50
384+0.000	-7,70	-2,0%	1038,533	-9,70	-2,0%	1038,573	1038,379	1036,796	757.335,625	8.181.392,411	1038,309	-2,0%	3,50	1038,269	-2,0%	5,50
385+0.000	-7,70	-2,0%	1038,418	-9,70	-2,0%	1038,458	1038,264	1036,608	757.352,720	8.181.402,792	1038,194	-2,0%	3,50	1038,154	-2,0%	5,50
386+0.000	-7,70	-2,0%	1038,303	-9,70	-2,0%	1038,343	1038,149	1036,513	757.369,815	8.181.413,174	1038,079	-2,0%	3,50	1038,039	-2,0%	5,50
387+0.000	-7,70	-2,0%	1038,187	-9,70	-2,0%	1038,227	1038,033	1036,249	757.386,909	8.181.423,555	1038,053	0,6%	3,50	1038,064	0,6%	5,50
388+0.000	-7,70	-3,3%	1038,174	-9,70	-3,3%	1038,240	1037,918	1036,064	757.403,946	8.181.434,031	1038,034	3,3%	3,50	1038,101	3,3%	5,50
389+0.000	-7,70	-4,0%	1038,111	-9,70	-4,0%	1038,191	1037,803	1035,836	757.420,698	8.181.444,956	1037,943	4,0%	3,50	1038,023	4,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

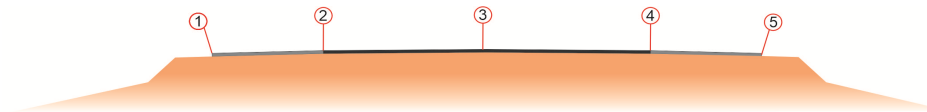
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
390+0.000	-7,70	-4,0%	1037,996	-9,70	-4,0%	1038,076	1037,688	1035,637	757.437,131	8.181.456,354	1037,828	4,0%	3,50	1037,908	4,0%	5,50
391+0.000	-7,70	-4,0%	1037,881	-9,70	-4,0%	1037,961	1037,573	1035,462	757.453,232	8.181.468,217	1037,713	4,0%	3,50	1037,793	4,0%	5,50
392+0.000	-7,70	-4,0%	1037,766	-9,70	-4,0%	1037,846	1037,458	1035,280	757.468,987	8.181.480,536	1037,598	4,0%	3,50	1037,678	4,0%	5,50
393+0.000	-7,70	-4,0%	1037,650	-9,70	-4,0%	1037,730	1037,342	1035,029	757.484,384	8.181.493,299	1037,482	4,0%	3,50	1037,562	4,0%	5,50
394+0.000	-7,70	-4,0%	1037,535	-9,70	-4,0%	1037,615	1037,227	1034,761	757.499,410	8.181.506,497	1037,367	4,0%	3,50	1037,447	4,0%	5,50
395+0.000	-7,70	-4,0%	1037,420	-9,70	-4,0%	1037,500	1037,112	1034,388	757.514,053	8.181.520,119	1037,252	4,0%	3,50	1037,332	4,0%	5,50
396+0.000	-7,70	-4,0%	1037,305	-9,70	-4,0%	1037,385	1036,997	1034,115	757.528,301	8.181.534,154	1037,137	4,0%	3,50	1037,217	4,0%	5,50
397+0.000	-7,70	-4,0%	1037,190	-9,70	-4,0%	1037,270	1036,882	1033,847	757.542,142	8.181.548,590	1037,022	4,0%	3,50	1037,102	4,0%	5,50
398+0.000	-7,70	-4,0%	1037,075	-9,70	-4,0%	1037,155	1036,767	1033,690	757.555,565	8.181.563,416	1036,907	4,0%	3,50	1036,987	4,0%	5,50
399+0.000	-7,70	-4,0%	1036,959	-9,70	-4,0%	1037,039	1036,651	1033,621	757.568,559	8.181.578,618	1036,791	4,0%	3,50	1036,871	4,0%	5,50
400+0.000	-7,70	-4,0%	1036,844	-9,70	-4,0%	1036,924	1036,536	1033,696	757.581,113	8.181.594,186	1036,676	4,0%	3,50	1036,756	4,0%	5,50
401+0.000	-7,70	-4,0%	1036,729	-9,70	-4,0%	1036,809	1036,421	1033,560	757.593,218	8.181.610,107	1036,561	4,0%	3,50	1036,641	4,0%	5,50
402+0.000	-7,70	-4,0%	1036,612	-9,70	-4,0%	1036,692	1036,306	1033,587	757.604,862	8.181.626,366	1036,445	4,0%	3,50	1036,525	4,0%	5,50
403+0.000	-7,70	-2,0%	1036,345	-9,70	-2,0%	1036,385	1036,191	1033,901	757.616,042	8.181.642,949	1036,234	1,2%	3,50	1036,258	1,2%	5,50
404+0.000	-7,70	-2,0%	1036,230	-9,70	-2,0%	1036,270	1036,076	1034,390	757.627,046	8.181.659,650	1036,022	-1,5%	3,50	1035,991	-1,5%	5,50
405+0.000	-7,70	-2,0%	1036,115	-9,70	-2,0%	1036,155	1035,961	1034,981	757.638,049	8.181.676,351	1035,891	-2,0%	3,50	1035,851	-2,0%	5,50
406+0.000	-7,70	-2,0%	1035,999	-9,70	-2,0%	1036,039	1035,845	1035,374	757.649,052	8.181.693,052	1035,775	-2,0%	3,50	1035,735	-2,0%	5,50
407+0.000	-7,70	-2,0%	1035,884	-9,70	-2,0%	1035,924	1035,730	1034,985	757.660,055	8.181.709,754	1035,660	-2,0%	3,50	1035,620	-2,0%	5,50
408+0.000	-7,70	-2,0%	1035,769	-9,70	-2,0%	1035,809	1035,615	1034,652	757.671,058	8.181.726,455	1035,545	-2,0%	3,50	1035,505	-2,0%	5,50
409+0.000	-7,70	-2,0%	1035,654	-9,70	-2,0%	1035,694	1035,500	1034,345	757.682,062	8.181.743,156	1035,430	-2,0%	3,50	1035,390	-2,0%	5,50
410+0.000	-7,70	-2,0%	1035,539	-9,70	-2,0%	1035,579	1035,385	1034,070	757.693,065	8.181.759,857	1035,315	-2,0%	3,50	1035,275	-2,0%	5,50
411+0.000	-7,70	-2,0%	1035,424	-9,70	-2,0%	1035,464	1035,270	1033,917	757.704,068	8.181.776,558	1035,200	-2,0%	3,50	1035,160	-2,0%	5,50
412+0.000	-7,70	-2,0%	1035,308	-9,70	-2,0%	1035,348	1035,154	1033,801	757.715,071	8.181.793,260	1035,084	-2,0%	3,50	1035,044	-2,0%	5,50
413+0.000	-7,70	-2,0%	1035,193	-9,70	-2,0%	1035,233	1035,039	1033,718	757.726,074	8.181.809,961	1034,969	-2,0%	3,50	1034,929	-2,0%	5,50
414+0.000	-7,70	-2,0%	1035,078	-9,70	-2,0%	1035,118	1034,924	1033,656	757.737,077	8.181.826,662	1034,854	-2,0%	3,50	1034,814	-2,0%	5,50
415+0.000	-7,70	-2,0%	1034,963	-9,70	-2,0%	1035,003	1034,809	1033,698	757.748,081	8.181.843,363	1034,739	-2,0%	3,50	1034,699	-2,0%	5,50
416+0.000	-7,70	-2,0%	1034,848	-9,70	-2,0%	1034,888	1034,694	1033,777	757.759,084	8.181.860,064	1034,624	-2,0%	3,50	1034,584	-2,0%	5,50
417+0.000	-7,70	-2,0%	1034,733	-9,70	-2,0%	1034,773	1034,579	1033,704	757.770,087	8.181.876,766	1034,509	-2,0%	3,50	1034,469	-2,0%	5,50
418+0.000	-7,70	-2,0%	1034,617	-9,70	-2,0%	1034,657	1034,463	1033,733	757.781,090	8.181.893,467	1034,393	-2,0%	3,50	1034,353	-2,0%	5,50
419+0.000	-7,70	-2,0%	1034,502	-9,70	-2,0%	1034,542	1034,348	1033,782	757.792,093	8.181.910,168	1034,278	-2,0%	3,50	1034,238	-2,0%	5,50
420+0.000	-7,70	-2,0%	1034,319	-9,70	-2,0%	1034,359	1034,165	1033,727	757.803,097	8.181.926,869	1034,095	-2,0%	3,50	1034,055	-2,0%	5,50
421+0.000	-7,70	-2,0%	1034,026	-9,70	-2,0%	1034,066	1033,872	1033,550	757.814,100	8.181.943,570	1033,802	-2,0%	3,50	1033,762	-2,0%	5,50
422+0.000	-7,70	-2,0%	1033,623	-9,70	-2,0%	1033,663	1033,469	1033,317	757.825,103	8.181.960,272	1033,399	-2,0%	3,50	1033,359	-2,0%	5,50
423+0.000	-7,70	-2,0%	1033,110	-9,70	-2,0%	1033,150	1032,956	1033,284	757.836,106	8.181.976,973	1032,886	-2,0%	3,50	1032,846	-2,0%	5,50
424+0.000	-7,70	-2,0%	1032,486	-9,70	-2,0%	1032,526	1032,332	1033,065	757.847,109	8.181.993,674	1032,262	-2,0%	3,50	1032,222	-2,0%	5,50
425+0.000	-7,70	-2,0%	1031,752	-9,70	-2,0%	1031,792	1031,598	1032,297	757.858,112	8.182.010,375	1031,528	-2,0%	3,50	1031,488	-2,0%	5,50
426+0.000	-7,70	-2,0%	1030,908	-9,70	-2,0%	1030,948	1030,754	1031,956	757.869,116	8.182.027,076	1030,684	-2,0%	3,50	1030,644	-2,0%	5,50
427+0.000	-7,70	-2,0%	1030,021	-9,70	-2,0%	1030,061	1029,867	1031,238	757.880,119	8.182.043,778	1029,797	-2,0%	3,50	1029,757	-2,0%	5,50
428+0.000	-7,70	-2,0%	1029,134	-9,70	-2,0%	1029,174	1028,980	1030,946	757.891,122	8.182.060,479	1028,910	-2,0%	3,50	1028,870	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

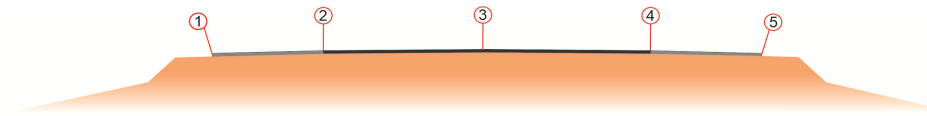
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
429+0.000	-7,70	-2,0%	1028,246	-9,70	-2,0%	1028,286	1028,092	1029,311	757.902,125	8.182.077,180	1028,022	-2,0%	3,50	1027,982	-2,0%	5,50
430+0.000	-7,70	-2,0%	1027,359	-9,70	-2,0%	1027,399	1027,205	1027,981	757.913,128	8.182.093,881	1027,135	-2,0%	3,50	1027,095	-2,0%	5,50
431+0.000	-7,70	-2,0%	1026,471	-9,70	-2,0%	1026,511	1026,317	1026,609	757.924,132	8.182.110,582	1026,247	-2,0%	3,50	1026,207	-2,0%	5,50
432+0.000	-7,70	-2,0%	1025,584	-9,70	-2,0%	1025,624	1025,430	1025,783	757.935,135	8.182.127,283	1025,360	-2,0%	3,50	1025,320	-2,0%	5,50
433+0.000	-7,70	-2,0%	1024,697	-9,70	-2,0%	1024,737	1024,543	1024,709	757.946,138	8.182.143,985	1024,532	-0,3%	3,50	1024,525	-0,3%	5,50
434+0.000	-7,70	-2,0%	1023,809	-9,70	-2,0%	1023,849	1023,655	1023,959	757.957,110	8.182.160,706	1023,725	2,0%	3,50	1023,765	2,0%	5,50
435+0.000	-7,70	-2,0%	1022,922	-9,70	-2,0%	1022,962	1022,768	1022,824	757.967,927	8.182.177,528	1022,838	2,0%	3,50	1022,878	2,0%	5,50
436+0.000	-7,70	-2,0%	1022,035	-9,70	-2,0%	1022,075	1021,881	1021,254	757.978,576	8.182.194,458	1021,951	2,0%	3,50	1021,991	2,0%	5,50
437+0.000	-7,70	-2,0%	1021,147	-9,70	-2,0%	1021,187	1020,993	1019,964	757.989,055	8.182.211,493	1021,063	2,0%	3,50	1021,103	2,0%	5,50
438+0.000	-7,70	-2,0%	1020,260	-9,70	-2,0%	1020,300	1020,106	1018,870	757.999,363	8.182.228,632	1020,176	2,0%	3,50	1020,216	2,0%	5,50
439+0.000	-7,70	-2,0%	1019,372	-9,70	-2,0%	1019,412	1019,218	1017,733	758.009,499	8.182.245,873	1019,288	2,0%	3,50	1019,328	2,0%	5,50
440+0.000	-7,70	-2,0%	1018,485	-9,70	-2,0%	1018,525	1018,331	1016,818	758.019,466	8.182.263,212	1018,337	0,2%	3,50	1018,340	0,2%	5,50
441+0.000	-7,70	-2,0%	1017,598	-9,70	-2,0%	1017,638	1017,444	1016,274	758.029,381	8.182.280,581	1017,374	-2,0%	3,50	1017,334	-2,0%	5,50
442+0.000	-7,70	-2,0%	1016,710	-9,70	-2,0%	1016,750	1016,556	1015,352	758.039,296	8.182.297,951	1016,486	-2,0%	3,50	1016,446	-2,0%	5,50
443+0.000	-7,70	-2,0%	1015,823	-9,70	-2,0%	1015,863	1015,669	1014,050	758.049,211	8.182.315,320	1015,599	-2,0%	3,50	1015,559	-2,0%	5,50
444+0.000	-7,70	-2,0%	1014,935	-9,70	-2,0%	1014,975	1014,781	1013,139	758.059,126	8.182.332,689	1014,711	-2,0%	3,50	1014,671	-2,0%	5,50
445+0.000	-7,70	-2,0%	1014,048	-9,70	-2,0%	1014,088	1013,894	1012,160	758.069,041	8.182.350,059	1013,824	-2,0%	3,50	1013,784	-2,0%	5,50
446+0.000	-7,70	-2,0%	1013,161	-9,70	-2,0%	1013,201	1013,007	1011,203	758.078,956	8.182.367,428	1012,937	-2,0%	3,50	1012,897	-2,0%	5,50
447+0.000	-7,70	-2,0%	1012,273	-9,70	-2,0%	1012,313	1012,119	1010,291	758.088,871	8.182.384,797	1012,049	-2,0%	3,50	1012,009	-2,0%	5,50
448+0.000	-7,70	-2,0%	1011,386	-9,70	-2,0%	1011,426	1011,232	1009,375	758.098,786	8.182.402,166	1011,162	-2,0%	3,50	1011,122	-2,0%	5,50
449+0.000	-7,70	-2,0%	1010,499	-9,70	-2,0%	1010,539	1010,345	1008,590	758.108,701	8.182.419,536	1010,275	-2,0%	3,50	1010,235	-2,0%	5,50
450+0.000	-7,70	-2,0%	1009,611	-9,70	-2,0%	1009,651	1009,457	1007,898	758.118,616	8.182.436,905	1009,387	-2,0%	3,50	1009,347	-2,0%	5,50
451+0.000	-7,70	-2,0%	1008,724	-9,70	-2,0%	1008,764	1008,570	1007,549	758.128,531	8.182.454,274	1008,500	-2,0%	3,50	1008,460	-2,0%	5,50
452+0.000	-7,70	-2,0%	1007,836	-9,70	-2,0%	1007,876	1007,682	1006,502	758.138,446	8.182.471,644	1007,612	-2,0%	3,50	1007,572	-2,0%	5,50
453+0.000	-7,70	-2,0%	1006,949	-9,70	-2,0%	1006,989	1006,795	1005,399	758.148,361	8.182.489,013	1006,725	-2,0%	3,50	1006,685	-2,0%	5,50
454+0.000	-7,70	-2,0%	1006,062	-9,70	-2,0%	1006,102	1005,908	1004,641	758.158,276	8.182.506,382	1005,838	-2,0%	3,50	1005,798	-2,0%	5,50
455+0.000	-7,70	-2,0%	1005,176	-9,70	-2,0%	1005,216	1005,022	1003,747	758.168,191	8.182.523,752	1004,952	-2,0%	3,50	1004,912	-2,0%	5,50
456+0.000	-7,70	-2,0%	1004,289	-9,70	-2,0%	1004,329	1004,135	1003,065	758.178,106	8.182.541,121	1004,102	-2,0%	3,50	1004,062	-2,0%	5,50
457+0.000	-7,70	-2,0%	1003,402	-9,70	-2,0%	1003,442	1003,248	1002,255	758.188,021	8.182.558,490	1003,304	-2,0%	3,50	1003,264	-2,0%	5,50
458+0.000	-7,70	-2,0%	1002,515	-9,70	-2,0%	1002,555	1002,361	1001,415	758.197,936	8.182.575,860	1002,555	-2,0%	3,50	1002,515	-2,0%	5,50
459+0.000	-7,70	-2,0%	1001,628	-9,70	-2,0%	1001,668	1001,474	1000,878	758.207,851	8.182.593,229	1001,822	-2,0%	3,50	1001,782	-2,0%	5,50
460+0.000	-7,70	-2,0%	1000,741	-9,70	-2,0%	1000,781	1000,587	1000,121	758.217,766	8.182.610,598	1001,088	-2,0%	3,50	1001,048	-2,0%	5,50
461+0.000	-7,70	-2,0%	1000,854	-9,70	-2,0%	1000,894	1000,700	999,170	758.227,681	8.182.627,968	1000,355	-2,0%	3,50	1000,315	-2,0%	5,50
462+0.000	-7,70	-2,0%	999,967	-9,70	-2,0%	999,107	999,913	998,530	758.237,596	8.182.645,337	999,621	-2,0%	3,50	999,581	-2,0%	5,50
463+0.000	-7,70	-2,0%	999,080	-9,70	-2,0%	999,120	998,926	997,899	758.247,511	8.182.662,706	998,888	-2,0%	3,50	998,848	-2,0%	5,50
464+0.000	-7,70	-2,0%	998,193	-9,70	-2,0%	998,203	998,009	997,134	758.257,426	8.182.680,075	998,155	-2,0%	3,50	998,115	-2,0%	5,50
465+0.000	-7,70	-2,0%	997,306	-9,70	-2,0%	997,316	997,122	996,488	758.267,341	8.182.697,445	997,421	-2,0%	3,50	997,381	-2,0%	5,50
466+0.000	-7,70	-2,0%	996,419	-9,70	-2,0%	996,429	996,235	995,813	758.277,256	8.182.714,814	996,688	-2,0%	3,50	996,648	-2,0%	5,50
467+0.000	-7,70	-2,0%	995,532	-9,70	-2,0%	995,542	995,348	995,230	758.287,171	8.182.732,183	995,954	-2,0%	3,50	995,914	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

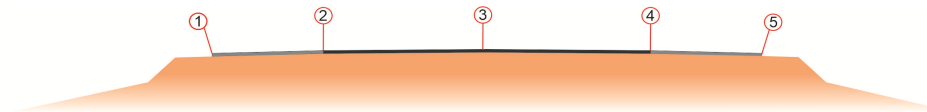
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
468+0.000	-7,70	-2,0%	995,445	-9,70	-2,0%	995,485	995,291	994,419	758.297,086	8.182.749,553	995,221	-2,0%	3,50	995,181	-2,0%	5,50
469+0.000	-7,70	-2,0%	994,712	-9,70	-2,0%	994,752	994,558	993,716	758.307,001	8.182.766,922	994,488	-2,0%	3,50	994,448	-2,0%	5,50
470+0.000	-7,70	-2,0%	993,978	-9,70	-2,0%	994,018	993,824	992,940	758.316,916	8.182.784,291	993,754	-2,0%	3,50	993,714	-2,0%	5,50
471+0.000	-7,70	-2,0%	993,265	-9,70	-2,0%	993,305	993,111	992,248	758.326,831	8.182.801,661	993,041	-2,0%	3,50	993,001	-2,0%	5,50
472+0.000	-7,70	-2,0%	992,640	-9,70	-2,0%	992,680	992,486	991,539	758.336,746	8.182.819,030	992,416	-2,0%	3,50	992,376	-2,0%	5,50
473+0.000	-7,70	-2,0%	992,109	-9,70	-2,0%	992,149	991,955	990,903	758.346,661	8.182.836,399	991,885	-2,0%	3,50	991,845	-2,0%	5,50
474+0.000	-7,70	-2,0%	991,673	-9,70	-2,0%	991,713	991,519	990,238	758.356,576	8.182.853,769	991,449	-2,0%	3,50	991,409	-2,0%	5,50
475+0.000	-7,70	-2,0%	991,332	-9,70	-2,0%	991,372	991,178	989,603	758.366,491	8.182.871,138	991,108	-2,0%	3,50	991,068	-2,0%	5,50
476+0.000	-7,70	-2,0%	991,085	-9,70	-2,0%	991,125	990,931	989,018	758.376,406	8.182.888,507	990,861	-2,0%	3,50	990,821	-2,0%	5,50
477+0.000	-7,70	-2,0%	990,933	-9,70	-2,0%	990,973	990,779	988,679	758.386,321	8.182.905,877	990,709	-2,0%	3,50	990,669	-2,0%	5,50
478+0.000	-7,70	-2,0%	990,876	-9,70	-2,0%	990,916	990,722	988,279	758.396,236	8.182.923,246	990,652	-2,0%	3,50	990,612	-2,0%	5,50
479+0.000	-7,70	-2,0%	990,913	-9,70	-2,0%	990,953	990,759	988,096	758.406,151	8.182.940,615	990,689	-2,0%	3,50	990,649	-2,0%	5,50
480+0.000	-7,70	-2,0%	991,044	-9,70	-2,0%	991,084	990,890	988,068	758.416,066	8.182.957,984	990,820	-2,0%	3,50	990,780	-2,0%	5,50
481+0.000	-7,70	-2,0%	991,250	-9,70	-2,0%	991,290	991,096	988,241	758.425,981	8.182.975,354	991,026	-2,0%	3,50	990,986	-2,0%	5,50
482+0.000	-7,70	-2,0%	991,463	-9,70	-2,0%	991,503	991,309	988,543	758.435,896	8.182.992,723	991,239	-2,0%	3,50	991,199	-2,0%	5,50
483+0.000	-7,70	-2,0%	991,675	-9,70	-2,0%	991,715	991,521	988,904	758.445,816	8.183.010,090	991,450	-2,0%	3,56	991,410	-2,0%	5,56
484+0.000	-7,70	-1,4%	991,839	-9,70	-1,4%	991,867	991,733	989,284	758.455,856	8.183.027,387	991,658	-2,0%	3,75	991,618	-2,0%	5,75
485+0.000	-7,70	1,4%	991,836	-9,70	1,4%	991,807	991,945	989,914	758.466,236	8.183.044,481	991,868	-2,0%	3,86	991,828	-2,0%	5,86
486+0.000	-7,70	4,2%	991,832	-9,70	4,2%	991,748	992,157	990,480	758.477,175	8.183.061,223	991,986	-4,2%	4,04	991,902	-4,2%	6,04
487+0.000	-7,70	5,6%	991,938	-9,70	5,6%	991,826	992,369	991,101	758.488,868	8.183.077,446	992,139	-5,6%	4,10	992,027	-5,6%	6,10
488+0.000	-7,70	5,6%	992,151	-9,70	5,6%	992,039	992,582	991,734	758.501,395	8.183.093,034	992,352	-5,6%	4,10	992,240	-5,6%	6,10
489+0.000	-7,70	5,6%	992,363	-9,70	5,6%	992,251	992,794	991,865	758.514,725	8.183.107,941	992,564	-5,6%	4,10	992,452	-5,6%	6,10
490+0.000	-7,70	5,6%	992,575	-9,70	5,6%	992,463	993,006	992,399	758.528,820	8.183.122,127	992,776	-5,6%	4,10	992,664	-5,6%	6,10
491+0.000	-7,70	5,6%	992,787	-9,70	5,6%	992,675	993,218	992,895	758.543,642	8.183.135,551	992,988	-5,6%	4,10	992,876	-5,6%	6,10
492+0.000	-7,70	5,6%	992,999	-9,70	5,6%	992,887	993,430	993,002	758.559,150	8.183.148,177	993,200	-5,6%	4,10	993,088	-5,6%	6,10
493+0.000	-7,70	5,6%	993,211	-9,70	5,6%	993,099	993,642	993,009	758.575,300	8.183.159,970	993,412	-5,6%	4,10	993,300	-5,6%	6,10
494+0.000	-7,70	5,6%	993,424	-9,70	5,6%	993,312	993,855	993,125	758.592,049	8.183.170,897	993,625	-5,6%	4,10	993,513	-5,6%	6,10
495+0.000	-7,70	5,6%	993,636	-9,70	5,6%	993,524	994,067	993,102	758.609,349	8.183.180,927	993,837	-5,6%	4,10	993,725	-5,6%	6,10
496+0.000	-7,70	5,6%	993,848	-9,70	5,6%	993,736	994,279	993,015	758.627,153	8.183.190,034	994,049	-5,6%	4,10	993,937	-5,6%	6,10
497+0.000	-7,70	5,6%	994,038	-9,70	5,6%	993,926	994,469	993,005	758.645,411	8.183.198,191	994,239	-5,6%	4,10	994,127	-5,6%	6,10
498+0.000	-7,70	5,6%	994,187	-9,70	5,6%	994,075	994,618	993,029	758.664,073	8.183.205,377	994,388	-5,6%	4,10	994,276	-5,6%	6,10
499+0.000	-7,70	5,6%	994,295	-9,70	5,6%	994,183	994,726	993,076	758.683,088	8.183.211,571	994,496	-5,6%	4,10	994,384	-5,6%	6,10
500+0.000	-7,70	5,6%	994,361	-9,70	5,6%	994,249	994,792	993,074	758.702,401	8.183.216,756	994,562	-5,6%	4,10	994,450	-5,6%	6,10
501+0.000	-7,70	5,6%	994,387	-9,70	5,6%	994,275	994,818	992,980	758.721,961	8.183.220,918	994,588	-5,6%	4,10	994,476	-5,6%	6,10
502+0.000	-7,70	5,6%	994,371	-9,70	5,6%	994,259	994,802	992,825	758.741,713	8.183.224,044	994,572	-5,6%	4,10	994,460	-5,6%	6,10
503+0.000	-7,70	5,6%	994,315	-9,70	5,6%	994,203	994,746	992,560	758.761,602	8.183.226,128	994,516	-5,6%	4,10	994,404	-5,6%	6,10
504+0.000	-7,70	5,6%	994,217	-9,70	5,6%	994,105	994,648	992,393	758.781,573	8.183.227,162	994,418	-5,6%	4,10	994,306	-5,6%	6,10
505+0.000	-7,70	5,6%	994,100	-9,70	5,6%	993,988	994,531	992,266	758.801,570	8.183.227,145	994,301	-5,6%	4,10	994,189	-5,6%	6,10
506+0.000	-7,70	5,2%	994,011	-9,70	5,2%	993,907	994,414	992,395	758.821,539	8.183.226,075	994,200	-5,2%	4,09	994,095	-5,2%	6,09



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

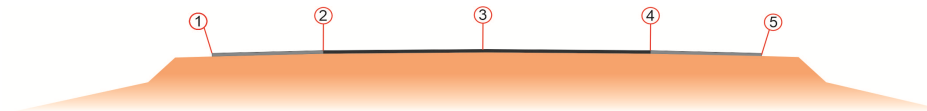
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
507+0.000	-7,70	2,4%	994,111	-9,70	2,4%	994,062	994,298	992,307	758.841,432	8.183.224,019	994,203	-2,4%	3,93	994,154	-2,4%	5,93
508+0.000	-7,70	-0,4%	994,209	-9,70	-0,4%	994,217	994,181	992,416	758.861,233	8.183.221,214	994,105	-2,0%	3,81	994,065	-2,0%	5,81
509+0.000	-7,70	-2,0%	994,218	-9,70	-2,0%	994,258	994,064	992,437	758.880,960	8.183.217,922	993,991	-2,0%	3,64	993,951	-2,0%	5,64
510+0.000	-7,70	-2,0%	994,101	-9,70	-2,0%	994,141	993,947	992,541	758.900,649	8.183.214,405	993,877	-2,0%	3,50	993,837	-2,0%	5,50
511+0.000	-7,70	-2,0%	993,984	-9,70	-2,0%	994,024	993,830	992,465	758.920,332	8.183.210,860	993,760	-2,0%	3,50	993,720	-2,0%	5,50
512+0.000	-7,70	-2,0%	993,868	-9,70	-2,0%	993,908	993,714	992,604	758.940,015	8.183.207,314	993,644	-2,0%	3,50	993,604	-2,0%	5,50
513+0.000	-7,70	-2,0%	993,751	-9,70	-2,0%	993,791	993,597	992,654	758.959,698	8.183.203,769	993,527	-2,0%	3,50	993,487	-2,0%	5,50
514+0.000	-7,70	-2,0%	993,634	-9,70	-2,0%	993,674	993,480	992,768	758.979,381	8.183.200,223	993,410	-2,0%	3,50	993,370	-2,0%	5,50
515+0.000	-7,70	-2,0%	993,517	-9,70	-2,0%	993,557	993,363	992,681	758.999,065	8.183.196,677	993,293	-2,0%	3,50	993,253	-2,0%	5,50
516+0.000	-7,70	-2,0%	993,401	-9,70	-2,0%	993,441	993,247	992,689	759.018,748	8.183.193,132	993,177	-2,0%	3,50	993,137	-2,0%	5,50
517+0.000	-7,70	-2,0%	993,284	-9,70	-2,0%	993,324	993,130	992,516	759.038,431	8.183.189,586	993,060	-2,0%	3,50	993,020	-2,0%	5,50
518+0.000	-7,70	-2,0%	993,167	-9,70	-2,0%	993,207	993,013	992,434	759.058,114	8.183.186,041	992,943	-2,0%	3,50	992,903	-2,0%	5,50
519+0.000	-7,70	-2,0%	993,050	-9,70	-2,0%	993,090	992,896	992,357	759.077,798	8.183.182,495	992,826	-2,0%	3,50	992,786	-2,0%	5,50
520+0.000	-7,70	-2,0%	992,933	-9,70	-2,0%	992,973	992,779	992,292	759.097,481	8.183.178,950	992,709	-2,0%	3,50	992,669	-2,0%	5,50
521+0.000	-7,70	-2,0%	992,817	-9,70	-2,0%	992,857	992,663	992,026	759.117,164	8.183.175,404	992,593	-2,0%	3,50	992,553	-2,0%	5,50
522+0.000	-7,70	-2,0%	992,700	-9,70	-2,0%	992,740	992,546	991,926	759.136,847	8.183.171,859	992,476	-2,0%	3,50	992,436	-2,0%	5,50
523+0.000	-7,70	-2,0%	992,583	-9,70	-2,0%	992,623	992,429	991,722	759.156,530	8.183.168,313	992,359	-2,0%	3,50	992,319	-2,0%	5,50
524+0.000	-7,70	-2,0%	992,466	-9,70	-2,0%	992,506	992,312	991,322	759.176,214	8.183.164,767	992,242	-2,0%	3,50	992,202	-2,0%	5,50
525+0.000	-7,70	-2,0%	992,349	-9,70	-2,0%	992,389	992,195	990,953	759.195,897	8.183.161,222	992,125	-2,0%	3,50	992,085	-2,0%	5,50
526+0.000	-7,70	-2,0%	992,233	-9,70	-2,0%	992,273	992,079	990,749	759.215,580	8.183.157,676	992,009	-2,0%	3,50	991,969	-2,0%	5,50
527+0.000	-7,70	-2,0%	992,116	-9,70	-2,0%	992,156	991,962	990,683	759.235,263	8.183.154,131	991,892	-2,0%	3,50	991,852	-2,0%	5,50
528+0.000	-7,70	-2,0%	991,999	-9,70	-2,0%	992,039	991,845	990,558	759.254,946	8.183.150,585	991,775	-2,0%	3,50	991,735	-2,0%	5,50
529+0.000	-7,70	-2,0%	991,882	-9,70	-2,0%	991,922	991,728	990,371	759.274,630	8.183.147,040	991,658	-2,0%	3,50	991,618	-2,0%	5,50
530+0.000	-7,70	-2,0%	991,766	-9,70	-2,0%	991,806	991,612	990,102	759.294,313	8.183.143,494	991,542	-2,0%	3,50	991,502	-2,0%	5,50
531+0.000	-7,70	-2,0%	991,649	-9,70	-2,0%	991,689	991,495	989,581	759.313,996	8.183.139,949	991,425	-2,0%	3,50	991,385	-2,0%	5,50
532+0.000	-7,70	-2,0%	991,532	-9,70	-2,0%	991,572	991,378	989,260	759.333,679	8.183.136,403	991,308	-2,0%	3,50	991,268	-2,0%	5,50
533+0.000	-7,70	-2,0%	991,415	-9,70	-2,0%	991,455	991,261	989,098	759.353,363	8.183.132,857	991,191	-2,0%	3,50	991,151	-2,0%	5,50
534+0.000	-7,70	-2,0%	991,298	-9,70	-2,0%	991,338	991,144	988,967	759.373,046	8.183.129,312	991,074	-2,0%	3,50	991,034	-2,0%	5,50
535+0.000	-7,70	-2,0%	991,182	-9,70	-2,0%	991,222	991,028	988,931	759.392,729	8.183.125,766	990,958	-2,0%	3,50	990,918	-2,0%	5,50
536+0.000	-7,70	-2,0%	991,065	-9,70	-2,0%	991,105	990,911	988,858	759.412,412	8.183.122,221	990,841	-2,0%	3,50	990,801	-2,0%	5,50
537+0.000	-7,70	-2,0%	990,948	-9,70	-2,0%	990,988	990,794	988,871	759.432,095	8.183.118,675	990,724	-2,0%	3,50	990,684	-2,0%	5,50
538+0.000	-7,70	-2,0%	990,831	-9,70	-2,0%	990,871	990,677	988,978	759.451,779	8.183.115,130	990,607	-2,0%	3,50	990,567	-2,0%	5,50
539+0.000	-7,70	-2,0%	990,714	-9,70	-2,0%	990,754	990,560	989,049	759.471,462	8.183.111,584	990,490	-2,0%	3,50	990,450	-2,0%	5,50
540+0.000	-7,70	-2,0%	990,621	-9,70	-2,0%	990,661	990,467	989,230	759.491,145	8.183.108,039	990,397	-2,0%	3,50	990,357	-2,0%	5,50
541+0.000	-7,70	-2,0%	990,613	-9,70	-2,0%	990,653	990,459	989,692	759.510,828	8.183.104,493	990,389	-2,0%	3,50	990,349	-2,0%	5,50
542+0.000	-7,70	-2,0%	990,693	-9,70	-2,0%	990,733	990,539	989,926	759.530,512	8.183.100,947	990,469	-2,0%	3,50	990,429	-2,0%	5,50
543+0.000	-7,70	-2,0%	990,862	-9,70	-2,0%	990,902	990,708	990,401	759.550,195	8.183.097,402	990,638	-2,0%	3,50	990,598	-2,0%	5,50
544+0.000	-7,70	-2,0%	991,118	-9,70	-2,0%	991,158	990,964	991,021	759.569,878	8.183.093,856	990,894	-2,0%	3,50	990,854	-2,0%	5,50
545+0.000	-7,70	-2,0%	991,464	-9,70	-2,0%	991,504	991,310	991,419	759.589,561	8.183.090,311	991,240	-2,0%	3,50	991,200	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

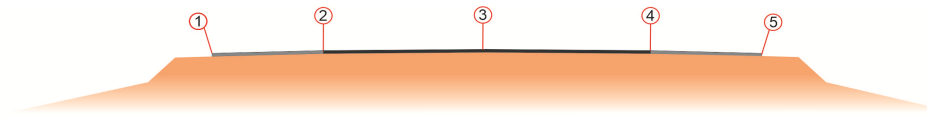
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
546+0.000	-7,70	-2,0%	991,897	-9,70	-2,0%	991,937	991,743	991,620	759.609,244	8.183.086,765	991,673	-2,0%	3,50	991,633	-2,0%	5,50
547+0.000	-7,70	-2,0%	992,419	-9,70	-2,0%	992,459	992,265	992,245	759.628,928	8.183.083,220	992,195	-2,0%	3,50	992,155	-2,0%	5,50
548+0.000	-7,70	-2,0%	993,029	-9,70	-2,0%	993,069	992,875	992,945	759.648,611	8.183.079,674	992,805	-2,0%	3,50	992,765	-2,0%	5,50
549+0.000	-7,70	-2,0%	993,728	-9,70	-2,0%	993,768	993,574	993,411	759.668,294	8.183.076,129	993,504	-2,0%	3,50	993,464	-2,0%	5,50
550+0.000	-7,70	-2,0%	994,491	-9,70	-2,0%	994,531	994,337	993,869	759.687,977	8.183.072,583	994,267	-2,0%	3,50	994,227	-2,0%	5,50
551+0.000	-7,70	-2,0%	995,258	-9,70	-2,0%	995,298	995,104	994,366	759.707,660	8.183.069,037	995,034	-2,0%	3,50	994,994	-2,0%	5,50
552+0.000	-7,70	-2,0%	996,024	-9,70	-2,0%	996,064	995,870	995,023	759.727,344	8.183.065,492	995,800	-2,0%	3,50	995,760	-2,0%	5,50
553+0.000	-7,70	-2,0%	996,791	-9,70	-2,0%	996,831	996,637	995,670	759.747,027	8.183.061,946	996,567	-2,0%	3,50	996,527	-2,0%	5,50
554+0.000	-7,70	-2,0%	997,558	-9,70	-2,0%	997,598	997,404	996,498	759.766,710	8.183.058,401	997,334	-2,0%	3,50	997,294	-2,0%	5,50
555+0.000	-7,70	-2,0%	998,324	-9,70	-2,0%	998,364	998,170	997,263	759.786,393	8.183.054,855	998,100	-2,0%	3,50	998,060	-2,0%	5,50
556+0.000	-7,70	-2,0%	999,091	-9,70	-2,0%	999,131	998,937	998,180	759.806,077	8.183.051,310	998,867	-2,0%	3,50	998,827	-2,0%	5,50
557+0.000	-7,70	-2,0%	999,858	-9,70	-2,0%	999,898	999,704	998,536	759.825,760	8.183.047,764	999,634	-2,0%	3,50	999,594	-2,0%	5,50
558+0.000	-7,70	-2,0%	1000,624	-9,70	-2,0%	1000,664	1000,470	999,072	759.845,443	8.183.044,219	1000,400	-2,0%	3,50	1000,360	-2,0%	5,50
559+0.000	-7,70	-2,0%	1001,391	-9,70	-2,0%	1001,431	1001,237	999,680	759.865,126	8.183.040,673	1001,167	-2,0%	3,50	1001,127	-2,0%	5,50
560+0.000	-7,70	-2,0%	1002,158	-9,70	-2,0%	1002,198	1002,004	1000,425	759.884,809	8.183.037,127	1001,934	-2,0%	3,50	1001,894	-2,0%	5,50
561+0.000	-7,70	-2,0%	1002,924	-9,70	-2,0%	1002,964	1002,770	1001,572	759.904,493	8.183.033,582	1002,700	-2,0%	3,50	1002,660	-2,0%	5,50
562+0.000	-7,70	-2,0%	1003,691	-9,70	-2,0%	1003,731	1003,537	1002,280	759.924,176	8.183.030,036	1003,467	-2,0%	3,50	1003,427	-2,0%	5,50
563+0.000	-7,70	-2,0%	1004,458	-9,70	-2,0%	1004,498	1004,304	1003,109	759.943,859	8.183.026,491	1004,234	-2,0%	3,50	1004,194	-2,0%	5,50
564+0.000	-7,70	-2,0%	1005,224	-9,70	-2,0%	1005,264	1005,070	1004,073	759.963,542	8.183.022,945	1005,000	-2,0%	3,50	1004,960	-2,0%	5,50
565+0.000	-7,70	-2,0%	1005,991	-9,70	-2,0%	1006,031	1005,837	1004,912	759.983,226	8.183.019,400	1005,767	-2,0%	3,50	1005,727	-2,0%	5,50
566+0.000	-7,70	-2,0%	1006,758	-9,70	-2,0%	1006,798	1006,604	1005,724	760.002,909	8.183.015,854	1006,534	-2,0%	3,50	1006,494	-2,0%	5,50
567+0.000	-7,70	-2,0%	1007,524	-9,70	-2,0%	1007,564	1007,370	1006,669	760.022,592	8.183.012,309	1007,300	-2,0%	3,50	1007,260	-2,0%	5,50
568+0.000	-7,70	-2,0%	1008,291	-9,70	-2,0%	1008,331	1008,137	1007,649	760.042,275	8.183.008,763	1008,067	-2,0%	3,50	1008,027	-2,0%	5,50
569+0.000	-7,70	-2,0%	1009,057	-9,70	-2,0%	1009,097	1008,903	1008,366	760.061,958	8.183.005,217	1008,833	-2,0%	3,50	1008,793	-2,0%	5,50
570+0.000	-7,70	-2,0%	1009,824	-9,70	-2,0%	1009,864	1009,670	1008,998	760.081,642	8.183.001,672	1009,600	-2,0%	3,50	1009,560	-2,0%	5,50
571+0.000	-7,70	-2,0%	1010,591	-9,70	-2,0%	1010,631	1010,437	1009,695	760.101,325	8.182.998,126	1010,367	-2,0%	3,50	1010,327	-2,0%	5,50
572+0.000	-7,70	-2,0%	1011,357	-9,70	-2,0%	1011,397	1011,203	1010,585	760.121,008	8.182.994,581	1011,133	-2,0%	3,50	1011,093	-2,0%	5,50
573+0.000	-7,70	-2,0%	1012,124	-9,70	-2,0%	1012,164	1011,970	1011,111	760.140,691	8.182.991,035	1011,900	-2,0%	3,50	1011,860	-2,0%	5,50
574+0.000	-7,70	-2,0%	1012,891	-9,70	-2,0%	1012,931	1012,737	1011,917	760.160,374	8.182.987,490	1012,667	-2,0%	3,50	1012,627	-2,0%	5,50
575+0.000	-7,70	-2,0%	1013,641	-9,70	-2,0%	1013,681	1013,487	1012,639	760.180,058	8.182.983,944	1013,417	-2,0%	3,50	1013,377	-2,0%	5,50
576+0.000	-7,70	-2,0%	1014,306	-9,70	-2,0%	1014,346	1014,152	1013,203	760.199,741	8.182.980,399	1014,082	-2,0%	3,50	1014,042	-2,0%	5,50
577+0.000	-7,70	-2,0%	1014,878	-9,70	-2,0%	1014,918	1014,724	1013,709	760.219,424	8.182.976,853	1014,654	-2,0%	3,50	1014,614	-2,0%	5,50
578+0.000	-7,70	-2,0%	1015,356	-9,70	-2,0%	1015,396	1015,202	1014,551	760.239,107	8.182.973,307	1015,132	-2,0%	3,50	1015,092	-2,0%	5,50
579+0.000	-7,70	-2,0%	1015,757	-9,70	-2,0%	1015,797	1015,603	1014,907	760.258,791	8.182.969,762	1015,533	-2,0%	3,50	1015,493	-2,0%	5,50
580+0.000	-7,70	-2,0%	1016,150	-9,70	-2,0%	1016,190	1015,996	1015,262	760.278,474	8.182.966,216	1015,926	-2,0%	3,50	1015,886	-2,0%	5,50
581+0.000	-7,70	-2,0%	1016,544	-9,70	-2,0%	1016,584	1016,390	1015,623	760.298,157	8.182.962,671	1016,320	-2,0%	3,50	1016,280	-2,0%	5,50
582+0.000	-7,70	-2,0%	1016,937	-9,70	-2,0%	1016,977	1016,783	1016,130	760.317,840	8.182.959,125	1016,713	-2,0%	3,50	1016,673	-2,0%	5,50
583+0.000	-7,70	-2,0%	1017,330	-9,70	-2,0%	1017,370	1017,176	1016,399	760.337,523	8.182.955,580	1017,106	-2,0%	3,50	1017,066	-2,0%	5,50
584+0.000	-7,70	-2,0%	1017,723	-9,70	-2,0%	1017,763	1017,569	1016,807	760.357,207	8.182.952,034	1017,579	0,3%	3,50	1017,585	0,3%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

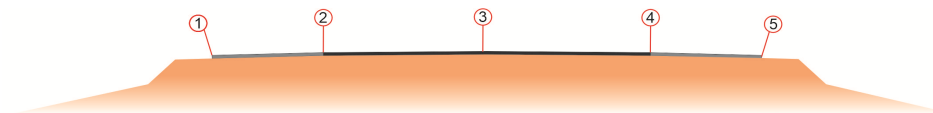
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
585+0.000	-7,70	-3,1%	1018,200	-9,70	-3,1%	1018,262	1017,961	1017,366	760.376,903	8.182.948,566	1018,070	3,1%	3,50	1018,132	3,1%	5,50
586+0.000	-7,70	-3,8%	1018,601	-9,70	-3,8%	1018,677	1018,308	1017,665	760.396,673	8.182.945,545	1018,441	3,8%	3,50	1018,517	3,8%	5,50
587+0.000	-7,70	-3,8%	1018,883	-9,70	-3,8%	1018,959	1018,590	1018,044	760.416,513	8.182.943,018	1018,723	3,8%	3,50	1018,799	3,8%	5,50
588+0.000	-7,70	-3,8%	1019,101	-9,70	-3,8%	1019,177	1018,808	1018,404	760.436,409	8.182.940,988	1018,941	3,8%	3,50	1019,017	3,8%	5,50
589+0.000	-7,70	-3,8%	1019,253	-9,70	-3,8%	1019,329	1018,960	1018,611	760.456,350	8.182.939,456	1019,093	3,8%	3,50	1019,169	3,8%	5,50
590+0.000	-7,70	-3,8%	1019,341	-9,70	-3,8%	1019,417	1019,048	1018,791	760.476,322	8.182.938,423	1019,181	3,8%	3,50	1019,257	3,8%	5,50
591+0.000	-7,70	-3,8%	1019,364	-9,70	-3,8%	1019,440	1019,071	1018,907	760.496,315	8.182.937,890	1019,204	3,8%	3,50	1019,280	3,8%	5,50
592+0.000	-7,70	-3,8%	1019,322	-9,70	-3,8%	1019,398	1019,029	1018,899	760.516,314	8.182.937,857	1019,162	3,8%	3,50	1019,238	3,8%	5,50
593+0.000	-7,70	-3,8%	1019,215	-9,70	-3,8%	1019,291	1018,922	1018,981	760.536,308	8.182.938,323	1019,055	3,8%	3,50	1019,131	3,8%	5,50
594+0.000	-7,70	-3,8%	1019,044	-9,70	-3,8%	1019,120	1018,751	1018,988	760.556,284	8.182.939,289	1018,884	3,8%	3,50	1018,960	3,8%	5,50
595+0.000	-7,70	-3,8%	1018,807	-9,70	-3,8%	1018,883	1018,514	1018,832	760.576,230	8.182.940,755	1018,647	3,8%	3,50	1018,723	3,8%	5,50
596+0.000	-7,70	-3,8%	1018,506	-9,70	-3,8%	1018,582	1018,213	1018,460	760.596,133	8.182.942,718	1018,346	3,8%	3,50	1018,422	3,8%	5,50
597+0.000	-7,70	-3,8%	1018,140	-9,70	-3,8%	1018,216	1017,847	1018,182	760.615,980	8.182.945,178	1017,980	3,8%	3,50	1018,056	3,8%	5,50
598+0.000	-7,70	-3,1%	1017,653	-9,70	-3,1%	1017,715	1017,416	1017,663	760.635,760	8.182.948,134	1017,524	3,1%	3,50	1017,585	3,1%	5,50
599+0.000	-7,70	-2,0%	1017,074	-9,70	-2,0%	1017,114	1016,920	1017,077	760.655,469	8.182.951,534	1016,929	0,3%	3,50	1016,935	0,3%	5,50
600+0.000	-7,70	-2,0%	1016,513	-9,70	-2,0%	1016,553	1016,359	1016,400	760.675,164	8.182.955,011	1016,289	-2,0%	3,50	1016,249	-2,0%	5,50
601+0.000	-7,70	-2,0%	1015,888	-9,70	-2,0%	1015,928	1015,734	1015,671	760.694,860	8.182.958,488	1015,664	-2,0%	3,50	1015,624	-2,0%	5,50
602+0.000	-7,70	-2,0%	1015,198	-9,70	-2,0%	1015,238	1015,044	1014,958	760.714,555	8.182.961,965	1014,974	-2,0%	3,50	1014,934	-2,0%	5,50
603+0.000	-7,70	-2,0%	1014,442	-9,70	-2,0%	1014,482	1014,288	1014,112	760.734,251	8.182.965,442	1014,218	-2,0%	3,50	1014,178	-2,0%	5,50
604+0.000	-7,70	-2,0%	1013,622	-9,70	-2,0%	1013,662	1013,468	1013,272	760.753,946	8.182.968,918	1013,398	-2,0%	3,50	1013,358	-2,0%	5,50
605+0.000	-7,70	-2,0%	1012,739	-9,70	-2,0%	1012,779	1012,585	1012,391	760.773,642	8.182.972,395	1012,515	-2,0%	3,50	1012,475	-2,0%	5,50
606+0.000	-7,70	-2,0%	1011,835	-9,70	-2,0%	1011,875	1011,681	1011,508	760.793,337	8.182.975,872	1011,611	-2,0%	3,50	1011,571	-2,0%	5,50
607+0.000	-7,70	-2,0%	1010,931	-9,70	-2,0%	1010,971	1010,777	1010,547	760.813,033	8.182.979,349	1010,707	-2,0%	3,50	1010,667	-2,0%	5,50
608+0.000	-7,70	-2,0%	1010,027	-9,70	-2,0%	1010,067	1009,873	1009,504	760.832,728	8.182.982,825	1009,803	-2,0%	3,50	1009,763	-2,0%	5,50
609+0.000	-7,70	-2,0%	1009,123	-9,70	-2,0%	1009,163	1008,969	1008,675	760.852,424	8.182.986,302	1008,899	-2,0%	3,50	1008,859	-2,0%	5,50
610+0.000	-7,70	-2,0%	1008,219	-9,70	-2,0%	1008,259	1008,065	1007,881	760.872,119	8.182.989,779	1007,995	-2,0%	3,50	1007,955	-2,0%	5,50
611+0.000	-7,70	-2,0%	1007,316	-9,70	-2,0%	1007,356	1007,162	1006,842	760.891,815	8.182.993,256	1007,092	-2,0%	3,50	1007,052	-2,0%	5,50
612+0.000	-7,70	-2,0%	1006,412	-9,70	-2,0%	1006,452	1006,258	1005,747	760.911,510	8.182.996,733	1006,188	-2,0%	3,50	1006,148	-2,0%	5,50
613+0.000	-7,70	-2,0%	1005,508	-9,70	-2,0%	1005,548	1005,354	1004,848	760.931,206	8.183.000,209	1005,284	-2,0%	3,50	1005,244	-2,0%	5,50
614+0.000	-7,70	-2,0%	1004,604	-9,70	-2,0%	1004,644	1004,450	1003,950	760.950,901	8.183.003,686	1004,380	-2,0%	3,50	1004,340	-2,0%	5,50
615+0.000	-7,70	-2,0%	1003,700	-9,70	-2,0%	1003,740	1003,546	1002,765	760.970,597	8.183.007,163	1003,476	-2,0%	3,50	1003,436	-2,0%	5,50
616+0.000	-7,70	-2,0%	1002,796	-9,70	-2,0%	1002,836	1002,642	1001,633	760.990,292	8.183.010,640	1002,572	-2,0%	3,50	1002,532	-2,0%	5,50
617+0.000	-7,70	-2,0%	1001,892	-9,70	-2,0%	1001,932	1001,738	1000,880	761.009,988	8.183.014,116	1001,668	-2,0%	3,50	1001,628	-2,0%	5,50
618+0.000	-7,70	-2,0%	1000,989	-9,70	-2,0%	1001,029	1000,835	999,747	761.029,683	8.183.017,593	1000,765	-2,0%	3,50	1000,725	-2,0%	5,50
619+0.000	-7,70	-2,0%	1000,085	-9,70	-2,0%	1000,125	999,931	998,927	761.049,379	8.183.021,070	999,861	-2,0%	3,50	999,821	-2,0%	5,50
620+0.000	-7,70	-2,0%	999,181	-9,70	-2,0%	999,221	999,027	997,895	761.069,074	8.183.024,547	998,957	-2,0%	3,50	998,917	-2,0%	5,50
621+0.000	-7,70	-2,0%	998,277	-9,70	-2,0%	998,317	998,123	996,944	761.088,770	8.183.028,024	998,053	-2,0%	3,50	998,013	-2,0%	5,50
622+0.000	-7,70	-2,0%	997,373	-9,70	-2,0%	997,413	997,219	995,879	761.108,465	8.183.031,500	997,149	-2,0%	3,50	997,109	-2,0%	5,50
623+0.000	-7,70	-2,0%	996,469	-9,70	-2,0%	996,509	996,315	994,873	761.128,160	8.183.034,977	996,245	-2,0%	3,50	996,205	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

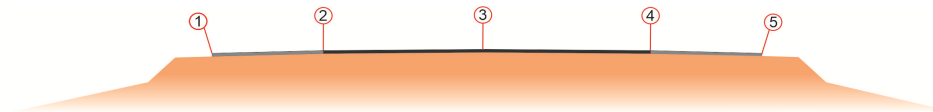
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
624+0.000	-7,70	-2,0%	995,565	-9,70	-2,0%	995,605	995,411	993,962	761.147,856	8.183.038,454	995,341	-2,0%	3,50	995,301	-2,0%	5,50
625+0.000	-7,70	-2,0%	994,662	-9,70	-2,0%	994,702	994,508	993,174	761.167,551	8.183.041,931	994,438	-2,0%	3,50	994,398	-2,0%	5,50
626+0.000	-7,70	-2,0%	993,758	-9,70	-2,0%	993,798	993,604	992,208	761.187,247	8.183.045,407	993,534	-2,0%	3,50	993,494	-2,0%	5,50
627+0.000	-7,70	-2,0%	992,854	-9,70	-2,0%	992,894	992,700	991,043	761.206,942	8.183.048,884	992,630	-2,0%	3,50	992,590	-2,0%	5,50
628+0.000	-7,70	-2,0%	991,950	-9,70	-2,0%	991,990	991,796	989,922	761.226,638	8.183.052,361	991,726	-2,0%	3,50	991,686	-2,0%	5,50
629+0.000	-7,70	-2,0%	991,046	-9,70	-2,0%	991,086	990,892	988,994	761.246,333	8.183.055,838	990,822	-2,0%	3,50	990,782	-2,0%	5,50
630+0.000	-7,70	-2,0%	990,142	-9,70	-2,0%	990,182	989,988	988,210	761.266,029	8.183.059,315	989,918	-2,0%	3,50	989,878	-2,0%	5,50
631+0.000	-7,70	-2,0%	989,239	-9,70	-2,0%	989,279	989,085	987,152	761.285,724	8.183.062,791	989,015	-2,0%	3,50	988,975	-2,0%	5,50
632+0.000	-7,70	-2,0%	988,336	-9,70	-2,0%	988,376	988,182	986,222	761.305,420	8.183.066,268	988,162	-2,0%	3,50	988,122	-2,0%	5,50
633+0.000	-7,70	-2,0%	987,432	-9,70	-2,0%	987,472	987,278	985,268	761.325,115	8.183.069,745	987,435	-2,0%	3,50	987,395	-2,0%	5,50
634+0.000	-7,70	-2,0%	986,528	-9,70	-2,0%	986,568	986,374	984,314	761.344,811	8.183.073,222	986,833	-2,0%	3,50	986,793	-2,0%	5,50
635+0.000	-7,70	-2,0%	985,624	-9,70	-2,0%	985,664	985,470	983,360	761.364,506	8.183.076,698	986,356	-2,0%	3,50	986,316	-2,0%	5,50
636+0.000	-7,70	-2,0%	984,720	-9,70	-2,0%	984,760	984,566	981,406	761.384,202	8.183.080,175	986,005	-2,0%	3,50	985,965	-2,0%	5,50
637+0.000	-7,70	-2,0%	983,816	-9,70	-2,0%	983,856	983,662	981,452	761.403,897	8.183.083,652	985,779	-2,0%	3,50	985,739	-2,0%	5,50
638+0.000	-7,70	-2,0%	982,912	-9,70	-2,0%	982,952	982,758	980,498	761.423,593	8.183.087,129	985,679	-2,0%	3,50	985,639	-2,0%	5,50
639+0.000	-7,70	-2,0%	982,008	-9,70	-2,0%	982,048	981,854	980,544	761.443,288	8.183.090,606	985,704	-2,0%	3,50	985,664	-2,0%	5,50
640+0.000	-7,70	-2,0%	981,104	-9,70	-2,0%	981,144	980,950	980,590	761.462,984	8.183.094,082	985,854	-2,0%	3,50	985,814	-2,0%	5,50
641+0.000	-7,70	-2,0%	980,200	-9,70	-2,0%	980,240	980,046	980,636	761.482,679	8.183.097,559	986,078	-2,0%	3,50	986,038	-2,0%	5,50
642+0.000	-7,70	-2,0%	979,296	-9,70	-2,0%	979,336	979,142	980,682	761.502,375	8.183.101,036	986,303	-2,0%	3,50	986,263	-2,0%	5,50
643+0.000	-7,70	-2,0%	978,392	-9,70	-2,0%	978,432	978,238	980,728	761.522,070	8.183.104,513	986,528	-2,0%	3,50	986,488	-2,0%	5,50
644+0.000	-7,70	-2,0%	977,488	-9,70	-2,0%	977,528	977,334	980,774	761.541,766	8.183.107,989	986,752	-2,0%	3,50	986,712	-2,0%	5,50
645+0.000	-7,70	-2,0%	976,584	-9,70	-2,0%	976,624	976,430	980,820	761.561,461	8.183.111,466	986,977	-2,0%	3,50	986,937	-2,0%	5,50
646+0.000	-7,70	-2,0%	975,680	-9,70	-2,0%	975,720	975,526	980,866	761.581,157	8.183.114,943	987,202	-2,0%	3,50	987,162	-2,0%	5,50
647+0.000	-7,70	-2,0%	974,776	-9,70	-2,0%	974,816	974,622	980,912	761.600,852	8.183.118,420	987,426	-2,0%	3,50	987,386	-2,0%	5,50
648+0.000	-7,70	-2,0%	973,872	-9,70	-2,0%	973,912	973,718	980,958	761.620,548	8.183.121,897	987,651	-2,0%	3,50	987,611	-2,0%	5,50
649+0.000	-7,70	-2,0%	972,968	-9,70	-2,0%	973,008	972,814	981,004	761.640,243	8.183.125,373	987,876	-2,0%	3,50	987,836	-2,0%	5,50
650+0.000	-7,70	-2,0%	972,064	-9,70	-2,0%	972,104	971,910	981,050	761.659,939	8.183.128,850	988,133	-2,0%	3,50	988,093	-2,0%	5,50
651+0.000	-7,70	-2,0%	971,160	-9,70	-2,0%	971,200	971,006	981,096	761.679,634	8.183.132,327	988,440	-2,0%	3,50	988,400	-2,0%	5,50
652+0.000	-7,70	-2,0%	970,256	-9,70	-2,0%	970,296	970,102	981,142	761.699,329	8.183.135,804	988,797	-2,0%	3,50	988,757	-2,0%	5,50
653+0.000	-7,70	-2,0%	969,352	-9,70	-2,0%	969,392	969,198	981,188	761.719,025	8.183.139,280	989,203	-2,0%	3,50	989,163	-2,0%	5,50
654+0.000	-7,70	-2,0%	968,448	-9,70	-2,0%	968,488	968,294	981,234	761.738,720	8.183.142,757	989,659	-2,0%	3,50	989,619	-2,0%	5,50
655+0.000	-7,70	-2,0%	967,544	-9,70	-2,0%	967,584	967,390	981,280	761.758,416	8.183.146,234	990,165	-2,0%	3,50	990,125	-2,0%	5,50
656+0.000	-7,70	-2,0%	966,640	-9,70	-2,0%	966,680	966,486	981,326	761.778,111	8.183.149,711	990,688	-2,0%	3,50	990,648	-2,0%	5,50
657+0.000	-7,70	-2,0%	965,736	-9,70	-2,0%	965,776	965,582	981,372	761.797,807	8.183.153,188	991,211	-2,0%	3,50	991,171	-2,0%	5,50
658+0.000	-7,70	-2,0%	964,832	-9,70	-2,0%	964,872	964,678	981,418	761.817,502	8.183.156,664	991,735	-2,0%	3,50	991,695	-2,0%	5,50
659+0.000	-7,70	-2,0%	963,928	-9,70	-2,0%	963,968	963,774	981,464	761.837,198	8.183.160,141	992,258	-2,0%	3,50	992,218	-2,0%	5,50
660+0.000	-7,70	-2,0%	963,024	-9,70	-2,0%	963,064	962,870	981,510	761.856,893	8.183.163,618	992,781	-2,0%	3,50	992,741	-2,0%	5,50
661+0.000	-7,70	-2,0%	962,120	-9,70	-2,0%	962,160	961,966	981,556	761.876,589	8.183.167,095	993,304	-2,0%	3,50	993,264	-2,0%	5,50
662+0.000	-7,70	-2,0%	961,216	-9,70	-2,0%	961,256	961,062	981,602	761.896,284	8.183.170,571	993,828	-2,0%	3,50	993,788	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

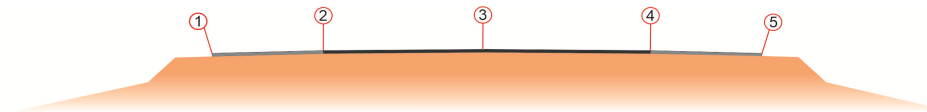
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
663+0.000	-7,70	-2,0%	994,575	-9,70	-2,0%	994,615	994,421	993,307	761.915,980	8.183.174,048	994,351	-2,0%	3,50	994,311	-2,0%	5,50
664+0.000	-7,70	-2,0%	995,098	-9,70	-2,0%	995,138	994,944	994,255	761.935,675	8.183.177,525	994,874	-2,0%	3,50	994,834	-2,0%	5,50
665+0.000	-7,70	-2,0%	995,621	-9,70	-2,0%	995,661	995,467	994,187	761.955,371	8.183.181,002	995,397	-2,0%	3,50	995,357	-2,0%	5,50
666+0.000	-7,70	-2,0%	996,144	-9,70	-2,0%	996,184	995,990	994,979	761.975,066	8.183.184,479	995,920	-2,0%	3,50	995,880	-2,0%	5,50
667+0.000	-7,70	-2,0%	996,668	-9,70	-2,0%	996,708	996,514	995,627	761.994,762	8.183.187,955	996,444	-2,0%	3,50	996,404	-2,0%	5,50
668+0.000	-7,70	-2,0%	997,191	-9,70	-2,0%	997,231	997,037	995,846	762.014,457	8.183.191,432	996,967	-2,0%	3,50	996,927	-2,0%	5,50
669+0.000	-7,70	-2,0%	997,714	-9,70	-2,0%	997,754	997,560	996,131	762.034,153	8.183.194,909	997,490	-2,0%	3,50	997,450	-2,0%	5,50
670+0.000	-7,70	-2,0%	998,237	-9,70	-2,0%	998,277	998,083	996,912	762.053,848	8.183.198,386	998,013	-2,0%	3,50	997,973	-2,0%	5,50
671+0.000	-7,70	-2,0%	998,761	-9,70	-2,0%	998,801	998,607	997,388	762.073,544	8.183.201,862	998,537	-2,0%	3,50	998,497	-2,0%	5,50
672+0.000	-7,70	-2,0%	999,284	-9,70	-2,0%	999,324	999,130	997,979	762.093,239	8.183.205,339	999,060	-2,0%	3,50	999,020	-2,0%	5,50
673+0.000	-7,70	-2,0%	999,807	-9,70	-2,0%	999,847	999,653	998,514	762.112,935	8.183.208,816	999,583	-2,0%	3,50	999,543	-2,0%	5,50
674+0.000	-7,70	-2,0%	1000,330	-9,70	-2,0%	1000,370	1000,176	999,206	762.132,630	8.183.212,293	1000,106	-2,0%	3,50	1000,066	-2,0%	5,50
675+0.000	-7,70	-2,0%	1000,854	-9,70	-2,0%	1000,894	1000,700	1000,154	762.152,326	8.183.215,769	1000,630	-2,0%	3,50	1000,590	-2,0%	5,50
676+0.000	-7,70	-2,0%	1001,377	-9,70	-2,0%	1001,417	1001,223	1000,761	762.172,021	8.183.219,246	1001,153	-2,0%	3,50	1001,113	-2,0%	5,50
677+0.000	-7,70	-2,0%	1001,900	-9,70	-2,0%	1001,940	1001,746	1001,059	762.191,717	8.183.222,723	1001,676	-2,0%	3,50	1001,636	-2,0%	5,50
678+0.000	-7,70	-2,0%	1002,423	-9,70	-2,0%	1002,463	1002,269	1001,489	762.211,412	8.183.226,200	1002,199	-2,0%	3,50	1002,159	-2,0%	5,50
679+0.000	-7,70	-2,0%	1002,947	-9,70	-2,0%	1002,987	1002,793	1002,511	762.231,108	8.183.229,677	1002,723	-2,0%	3,50	1002,683	-2,0%	5,50
680+0.000	-7,70	-2,0%	1003,470	-9,70	-2,0%	1003,510	1003,316	1002,855	762.250,803	8.183.233,153	1003,246	-2,0%	3,50	1003,206	-2,0%	5,50
681+0.000	-7,70	-2,0%	1003,993	-9,70	-2,0%	1004,033	1003,839	1003,456	762.270,498	8.183.236,630	1003,769	-2,0%	3,50	1003,729	-2,0%	5,50
682+0.000	-7,70	-2,0%	1004,516	-9,70	-2,0%	1004,556	1004,362	1003,489	762.290,194	8.183.240,107	1004,292	-2,0%	3,50	1004,252	-2,0%	5,50
683+0.000	-7,70	-2,0%	1005,040	-9,70	-2,0%	1005,080	1004,886	1003,278	762.309,889	8.183.243,584	1004,816	-2,0%	3,50	1004,776	-2,0%	5,50
684+0.000	-7,70	-2,0%	1005,566	-9,70	-2,0%	1005,626	1005,432	1003,166	762.329,585	8.183.247,060	1005,362	-2,0%	3,50	1005,322	-2,0%	5,50
685+0.000	-7,70	-2,0%	1006,242	-9,70	-2,0%	1006,282	1006,088	1003,059	762.349,280	8.183.250,537	1006,018	-2,0%	3,50	1005,978	-2,0%	5,50
686+0.000	-7,70	-2,0%	1007,015	-9,70	-2,0%	1007,055	1006,861	1003,492	762.368,976	8.183.254,014	1006,791	-2,0%	3,50	1006,751	-2,0%	5,50
687+0.000	-7,70	-2,0%	1007,905	-9,70	-2,0%	1007,945	1007,751	1004,246	762.388,671	8.183.257,491	1007,681	-2,0%	3,50	1007,641	-2,0%	5,50
688+0.000	-7,70	-2,0%	1008,913	-9,70	-2,0%	1008,953	1008,759	1005,509	762.408,367	8.183.260,968	1008,689	-2,0%	3,50	1008,649	-2,0%	5,50
689+0.000	-7,70	-2,0%	1010,038	-9,70	-2,0%	1010,078	1009,884	1006,855	762.428,062	8.183.264,444	1009,814	-2,0%	3,50	1009,774	-2,0%	5,50
690+0.000	-7,70	-2,0%	1011,257	-9,70	-2,0%	1011,297	1011,103	1008,520	762.447,758	8.183.267,921	1011,033	-2,0%	3,50	1010,993	-2,0%	5,50
691+0.000	-7,70	-2,0%	1012,484	-9,70	-2,0%	1012,524	1012,330	1010,667	762.467,453	8.183.271,398	1012,260	-2,0%	3,50	1012,220	-2,0%	5,50
692+0.000	-7,70	-2,0%	1013,711	-9,70	-2,0%	1013,751	1013,557	1012,186	762.487,149	8.183.274,875	1013,487	-2,0%	3,50	1013,447	-2,0%	5,50
693+0.000	-7,80	-2,0%	1014,940	-9,80	-2,0%	1014,980	1014,784	1013,907	762.506,843	8.183.278,358	1014,714	-2,0%	3,50	1014,674	-2,0%	5,50
694+0.000	-7,98	-2,0%	1016,171	-9,98	-2,0%	1016,211	1016,011	1015,003	762.526,512	8.183.281,984	1015,965	-1,3%	3,50	1015,939	-1,3%	5,50
695+0.000	-8,16	-2,0%	1017,401	-10,16	-2,0%	1017,441	1017,238	1016,492	762.546,102	8.183.286,005	1017,290	1,5%	3,50	1017,320	1,5%	5,50
696+0.000	-8,24	-4,3%	1018,818	-10,24	-4,3%	1018,904	1018,465	1018,106	762.565,548	8.183.290,678	1018,615	4,3%	3,50	1018,701	4,3%	5,50
697+0.000	-8,30	-5,6%	1020,157	-10,30	-5,6%	1020,269	1019,692	1019,125	762.584,756	8.183.296,242	1019,888	5,6%	3,50	1020,000	5,6%	5,50
698+0.000	-8,30	-5,6%	1021,320	-10,30	-5,6%	1021,432	1020,855	1020,256	762.603,646	8.183.302,804	1021,051	5,6%	3,50	1021,163	5,6%	5,50
699+0.000	-8,30	-5,6%	1022,373	-10,30	-5,6%	1022,485	1021,908	1020,766	762.622,165	8.183.310,352	1022,104	5,6%	3,50	1022,216	5,6%	5,50
700+0.000	-8,30	-5,6%	1023,318	-10,30	-5,6%	1023,430	1022,853	1021,653	762.640,261	8.183.318,863	1023,049	5,6%	3,50	1023,161	5,6%	5,50
701+0.000	-8,30	-5,6%	1024,155	-10,30	-5,6%	1024,267	1023,690	1022,097	762.657,884	8.183.328,314	1023,886	5,6%	3,50	1023,998	5,6%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

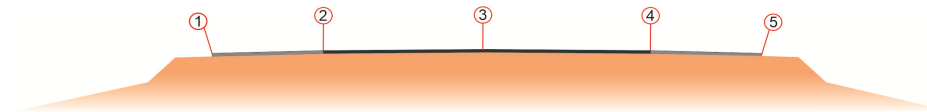
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
702+0.000	-8,30	-5,6%	1024,882	-10,30	-5,6%	1024,994	1024,417	1022,526	762.674,986	8.183.338,679	1024,613	5,6%	3,50	1024,725	5,6%	5,50
703+0.000	-8,30	-5,6%	1025,501	-10,30	-5,6%	1025,613	1025,036	1022,900	762.691,519	8.183.349,930	1025,232	5,6%	3,50	1025,344	5,6%	5,50
704+0.000	-8,30	-5,6%	1026,012	-10,30	-5,6%	1026,124	1025,547	1023,222	762.707,437	8.183.362,035	1025,743	5,6%	3,50	1025,855	5,6%	5,50
705+0.000	-8,30	-5,6%	1026,413	-10,30	-5,6%	1026,525	1025,948	1023,541	762.722,696	8.183.374,960	1026,144	5,6%	3,50	1026,256	5,6%	5,50
706+0.000	-8,17	-3,1%	1026,490	-10,17	-3,1%	1026,551	1026,241	1023,384	762.737,277	8.183.388,647	1026,348	3,1%	3,50	1026,409	3,1%	5,50
707+0.000	-8,01	-2,0%	1026,585	-10,01	-2,0%	1026,625	1026,425	1023,712	762.751,290	8.183.402,915	1026,434	0,3%	3,50	1026,439	0,3%	5,50
708+0.000	-8,00	-2,0%	1026,661	-10,00	-2,0%	1026,701	1026,501	1023,863	762.764,906	8.183.417,564	1026,431	-2,0%	3,50	1026,391	-2,0%	5,50
709+0.000	-7,73	-2,0%	1026,623	-9,73	-2,0%	1026,663	1026,468	1023,881	762.778,311	8.183.432,406	1026,398	-2,0%	3,50	1026,358	-2,0%	5,50
710+0.000	-7,70	-2,0%	1026,480	-9,70	-2,0%	1026,520	1026,326	1023,895	762.791,674	8.183.447,287	1026,256	-2,0%	3,50	1026,216	-2,0%	5,50
711+0.000	-7,70	-2,0%	1026,230	-9,70	-2,0%	1026,270	1026,076	1022,922	762.805,037	8.183.462,168	1026,006	-2,0%	3,50	1025,966	-2,0%	5,50
712+0.000	-7,70	-2,0%	1025,870	-9,70	-2,0%	1025,910	1025,716	1022,685	762.818,400	8.183.477,048	1025,646	-2,0%	3,50	1025,606	-2,0%	5,50
713+0.000	-7,70	-2,0%	1025,430	-9,70	-2,0%	1025,470	1025,276	1022,569	762.831,763	8.183.491,929	1025,206	-2,0%	3,50	1025,166	-2,0%	5,50
714+0.000	-7,70	-2,0%	1024,986	-9,70	-2,0%	1025,026	1024,832	1022,630	762.845,126	8.183.506,810	1024,762	-2,0%	3,50	1024,722	-2,0%	5,50
715+0.000	-7,70	-2,0%	1024,541	-9,70	-2,0%	1024,581	1024,387	1022,884	762.858,488	8.183.521,690	1024,317	-2,0%	3,50	1024,277	-2,0%	5,50
716+0.000	-7,70	-2,0%	1024,097	-9,70	-2,0%	1024,137	1023,943	1022,926	762.871,851	8.183.536,571	1023,873	-2,0%	3,50	1023,833	-2,0%	5,50
717+0.000	-7,70	-2,0%	1023,618	-9,70	-2,0%	1023,658	1023,464	1022,806	762.885,214	8.183.551,452	1023,394	-2,0%	3,50	1023,354	-2,0%	5,50
718+0.000	-7,70	-2,0%	1023,025	-9,70	-2,0%	1023,065	1022,871	1022,518	762.898,577	8.183.566,332	1022,801	-2,0%	3,50	1022,761	-2,0%	5,50
719+0.000	-7,70	-2,0%	1022,315	-9,70	-2,0%	1022,355	1022,161	1022,573	762.911,940	8.183.581,213	1022,091	-2,0%	3,50	1022,051	-2,0%	5,50
720+0.000	-7,70	-2,0%	1021,486	-9,70	-2,0%	1021,526	1021,332	1022,495	762.925,270	8.183.596,123	1021,308	-0,7%	3,50	1021,294	-0,7%	5,50
721+0.000	-7,70	-2,1%	1020,543	-9,70	-2,1%	1020,584	1020,385	1022,243	762.938,400	8.183.611,209	1020,457	2,1%	3,50	1020,498	2,1%	5,50
722+0.000	-7,70	-4,8%	1019,691	-9,70	-4,8%	1019,787	1019,321	1021,632	762.951,123	8.183.626,639	1019,489	4,8%	3,50	1019,585	4,8%	5,50
723+0.000	-7,70	-4,8%	1018,509	-9,70	-4,8%	1018,605	1018,139	1021,135	762.963,254	8.183.642,538	1018,307	4,8%	3,50	1018,403	4,8%	5,50
724+0.000	-7,70	-4,8%	1017,208	-9,70	-4,8%	1017,304	1016,838	1020,503	762.974,740	8.183.658,910	1017,006	4,8%	3,50	1017,102	4,8%	5,50
725+0.000	-7,70	-4,8%	1015,824	-9,70	-4,8%	1015,920	1015,454	1020,850	762.985,561	8.183.675,728	1015,622	4,8%	3,50	1015,718	4,8%	5,50
726+0.000	-7,70	-4,8%	1014,437	-9,70	-4,8%	1014,533	1014,067	1021,357	762.995,702	8.183.692,965	1014,235	4,8%	3,50	1014,331	4,8%	5,50
727+0.000	-7,70	-4,8%	1013,049	-9,70	-4,8%	1013,145	1012,679	1019,740	763.005,145	8.183.710,593	1012,847	4,8%	3,50	1012,943	4,8%	5,50
728+0.000	-7,70	-4,8%	1011,662	-9,70	-4,8%	1011,758	1011,292	1018,345	763.013,876	8.183.728,586	1011,460	4,8%	3,50	1011,556	4,8%	5,50
729+0.000	-7,70	-4,8%	1010,274	-9,70	-4,8%	1010,370	1009,904	1016,952	763.021,880	8.183.746,913	1010,072	4,8%	3,50	1010,168	4,8%	5,50
730+0.000	-7,70	-3,9%	1008,818	-9,70	-3,9%	1008,896	1008,516	1015,131	763.029,146	8.183.765,545	1008,653	3,9%	3,50	1008,732	3,9%	5,50
731+0.000	-7,70	-2,0%	1007,283	-9,70	-2,0%	1007,323	1007,129	1012,846	763.035,756	8.183.784,420	1007,170	1,2%	3,50	1007,193	1,2%	5,50
732+0.000	-7,70	-2,0%	1005,895	-9,70	-2,0%	1005,935	1005,741	1009,957	763.041,942	8.183.803,439	1005,686	-1,6%	3,50	1005,655	-1,6%	5,50
733+0.000	-7,70	-2,0%	1004,508	-9,70	-2,0%	1004,548	1004,354	1006,097	763.047,955	8.183.822,514	1004,283	-2,0%	3,57	1004,243	-2,0%	5,57
734+0.000	-7,70	-2,0%	1003,120	-9,70	-2,0%	1003,160	1002,966	1003,377	763.053,954	8.183.841,593	1002,890	-2,0%	3,81	1002,850	-2,0%	5,81
735+0.000	-7,70	-0,4%	1001,607	-9,70	-0,4%	1001,615	1001,579	1001,720	763.059,953	8.183.860,672	1001,498	-2,0%	4,04	1001,458	-2,0%	6,04
736+0.000	-7,70	2,4%	1000,005	-9,70	2,4%	999,956	1000,191	997,859	763.065,991	8.183.879,739	1000,085	-2,4%	4,38	1000,037	-2,4%	6,38
737+0.000	-7,70	5,2%	998,403	-9,70	5,2%	998,299	998,804	995,771	763.072,485	8.183.898,653	998,580	-5,2%	4,30	998,476	-5,2%	6,30
738+0.000	-7,70	6,0%	996,954	-9,70	6,0%	996,834	997,416	993,653	763.080,012	8.183.917,179	997,170	-6,0%	4,10	997,050	-6,0%	6,10
739+0.000	-7,70	6,0%	995,566	-9,70	6,0%	995,446	996,028	991,510	763.088,753	8.183.935,164	995,782	-6,0%	4,10	995,662	-6,0%	6,10
740+0.000	-7,70	3,8%	994,351	-9,70	3,8%	994,276	994,641	989,365	763.098,624	8.183.952,555	994,483	-3,8%	4,20	994,408	-3,8%	6,20



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

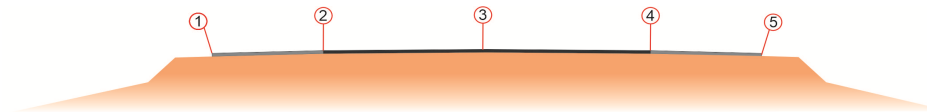
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
741+0.000	-7,70	1,0%	993,179	-9,70	1,0%	993,160	993,253	986,884	763.109,180	8.183.969,542	993,180	-2,0%	3,65	993,140	-2,0%	5,65
742+0.000	-7,70	-1,8%	992,007	-9,70	-1,8%	992,044	991,866	985,128	763.119,896	8.183.986,429	991,796	-2,0%	3,50	991,756	-2,0%	5,50
743+0.000	-7,70	-2,0%	990,632	-9,70	-2,0%	990,672	990,478	983,235	763.130,612	8.184.003,316	990,408	-2,0%	3,50	990,368	-2,0%	5,50
744+0.000	-7,71	-2,0%	989,245	-9,71	-2,0%	989,285	989,091	981,536	763.141,324	8.184.020,205	989,080	-0,3%	3,50	989,073	-0,3%	5,50
745+0.000	-7,93	-2,5%	987,897	-9,93	-2,5%	987,946	987,703	980,386	763.151,878	8.184.037,193	987,789	2,5%	3,50	987,838	2,5%	5,50
746+0.000	-8,10	-5,2%	986,739	-10,10	-5,2%	986,843	986,316	979,242	763.161,939	8.184.054,477	986,499	5,2%	3,50	986,603	5,2%	5,50
747+0.000	-8,10	-5,4%	985,365	-10,10	-5,4%	985,473	984,928	978,378	763.171,195	8.184.072,204	985,117	5,4%	3,50	985,225	5,4%	5,50
748+0.000	-8,10	-5,4%	983,978	-10,10	-5,4%	984,086	983,541	977,253	763.179,553	8.184.090,372	983,730	5,4%	3,50	983,838	5,4%	5,50
749+0.000	-8,10	-5,4%	982,590	-10,10	-5,4%	982,698	982,153	976,615	763.186,992	8.184.108,934	982,342	5,4%	3,50	982,450	5,4%	5,50
750+0.000	-8,10	-5,4%	981,202	-10,10	-5,4%	981,310	980,765	975,983	763.193,495	8.184.127,846	980,954	5,4%	3,50	981,062	5,4%	5,50
751+0.000	-8,10	-5,4%	979,815	-10,10	-5,4%	979,923	979,378	975,519	763.199,044	8.184.147,058	979,567	5,4%	3,50	979,675	5,4%	5,50
752+0.000	-8,10	-5,4%	978,427	-10,10	-5,4%	978,535	977,990	975,246	763.203,626	8.184.166,524	978,179	5,4%	3,50	978,287	5,4%	5,50
753+0.000	-8,10	-5,4%	977,040	-10,10	-5,4%	977,148	976,603	974,175	763.207,229	8.184.186,195	976,792	5,4%	3,50	976,900	5,4%	5,50
754+0.000	-8,10	-5,4%	975,714	-10,10	-5,4%	975,822	975,277	973,370	763.209,845	8.184.206,021	975,466	5,4%	3,50	975,574	5,4%	5,50
755+0.000	-8,10	-5,4%	974,489	-10,10	-5,4%	974,597	974,052	972,654	763.211,467	8.184.225,953	974,241	5,4%	3,50	974,349	5,4%	5,50
756+0.000	-8,10	-4,1%	973,259	-10,10	-4,1%	973,340	972,930	971,784	763.212,098	8.184.245,941	973,072	4,1%	3,50	973,153	4,1%	5,50
757+0.000	-7,88	-2,0%	972,067	-9,88	-2,0%	972,107	971,909	971,110	763.211,931	8.184.265,940	971,954	1,3%	3,50	971,980	1,3%	5,50
758+0.000	-7,70	-2,0%	971,145	-9,70	-2,0%	971,185	970,991	970,637	763.211,359	8.184.285,931	970,939	-1,5%	3,50	970,910	-1,5%	5,50
759+0.000	-7,70	-2,0%	970,329	-9,70	-2,0%	970,369	970,175	969,675	763.210,716	8.184.305,921	970,105	-2,0%	3,50	970,065	-2,0%	5,50
760+0.000	-7,70	-2,0%	969,614	-9,70	-2,0%	969,654	969,460	969,161	763.210,074	8.184.325,911	969,390	-2,0%	3,50	969,350	-2,0%	5,50
761+0.000	-7,70	-2,0%	968,940	-9,70	-2,0%	968,980	968,786	968,649	763.209,431	8.184.345,900	968,716	-2,0%	3,50	968,676	-2,0%	5,50
762+0.000	-7,70	0,6%	968,063	-9,70	0,6%	968,050	968,112	968,020	763.208,812	8.184.365,891	968,039	-2,0%	3,65	967,999	-2,0%	5,65
763+0.000	-7,70	3,4%	967,175	-9,70	3,4%	967,106	967,439	967,413	763.208,622	8.184.385,888	967,304	-3,4%	3,95	967,235	-3,4%	5,95
764+0.000	-7,70	6,0%	966,303	-9,70	6,0%	966,183	966,765	966,422	763.209,580	8.184.405,861	966,507	-6,0%	4,30	966,387	-6,0%	6,30
765+0.000	-7,70	6,0%	965,630	-9,70	6,0%	965,510	966,092	964,743	763.212,252	8.184.425,674	965,834	-6,0%	4,30	965,714	-6,0%	6,30
766+0.000	-7,70	6,0%	964,956	-9,70	6,0%	964,836	965,418	963,470	763.216,712	8.184.445,164	965,160	-6,0%	4,30	965,040	-6,0%	6,30
767+0.000	-7,70	6,0%	964,283	-9,70	6,0%	964,163	964,745	962,302	763.222,924	8.184.464,168	964,487	-6,0%	4,30	964,367	-6,0%	6,30
768+0.000	-7,70	6,0%	963,609	-9,70	6,0%	963,489	964,071	961,384	763.230,834	8.184.482,529	963,813	-6,0%	4,30	963,693	-6,0%	6,30
769+0.000	-7,70	6,0%	962,935	-9,70	6,0%	962,815	963,397	960,553	763.240,379	8.184.500,097	963,139	-6,0%	4,30	963,019	-6,0%	6,30
770+0.000	-7,70	6,0%	962,262	-9,70	6,0%	962,142	962,724	961,071	763.251,480	8.184.516,725	962,466	-6,0%	4,30	962,346	-6,0%	6,30
771+0.000	-7,70	6,0%	961,588	-9,70	6,0%	961,468	962,050	961,928	763.264,044	8.184.532,277	961,792	-6,0%	4,30	961,672	-6,0%	6,30
772+0.000	-7,70	6,0%	960,915	-9,70	6,0%	960,795	961,377	962,442	763.277,968	8.184.546,624	961,119	-6,0%	4,30	960,999	-6,0%	6,30
773+0.000	-7,70	6,0%	960,241	-9,70	6,0%	960,121	960,703	961,972	763.293,137	8.184.559,648	960,445	-6,0%	4,30	960,325	-6,0%	6,30
774+0.000	-7,70	6,0%	959,568	-9,70	6,0%	959,448	960,030	960,945	763.309,426	8.184.571,241	959,772	-6,0%	4,30	959,652	-6,0%	6,30
775+0.000	-7,70	6,0%	958,894	-9,70	6,0%	958,774	959,356	960,145	763.326,700	8.184.581,308	959,098	-6,0%	4,30	958,978	-6,0%	6,30
776+0.000	-7,70	6,0%	958,220	-9,70	6,0%	958,100	958,682	958,849	763.344,817	8.184.589,764	958,424	-6,0%	4,30	958,304	-6,0%	6,30
777+0.000	-7,70	3,4%	957,746	-9,70	3,4%	957,678	958,009	957,837	763.363,595	8.184.596,633	957,872	-3,4%	4,01	957,804	-3,4%	6,01
778+0.000	-7,70	0,6%	957,345	-9,70	0,6%	957,333	957,393	957,287	763.382,739	8.184.602,418	957,319	-2,0%	3,69	957,279	-2,0%	5,69
779+0.000	-7,70	-2,0%	957,077	-9,70	-2,0%	957,117	956,923	956,235	763.402,002	8.184.607,796	956,853	-2,0%	3,50	956,813	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

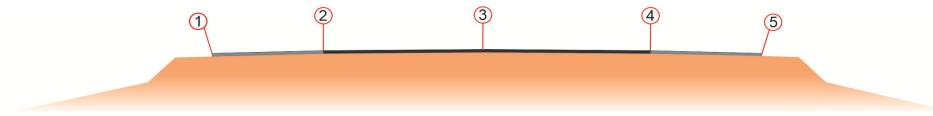
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
780+0.000	-7,70	-2,0%	956,755	-9,70	-2,0%	956,795	956,601	955,554	763.421,272	8.184.613,151	956,531	-2,0%	3,50	956,491	-2,0%	5,50
781+0.000	-7,70	-2,0%	956,580	-9,70	-2,0%	956,620	956,426	954,909	763.440,541	8.184.618,507	956,356	-2,0%	3,50	956,316	-2,0%	5,50
782+0.000	-7,70	-2,0%	956,554	-9,70	-2,0%	956,594	956,400	954,624	763.459,811	8.184.623,862	956,330	-2,0%	3,50	956,290	-2,0%	5,50
783+0.000	-7,70	-2,0%	956,675	-9,70	-2,0%	956,715	956,521	954,113	763.479,081	8.184.629,218	956,451	-2,0%	3,50	956,411	-2,0%	5,50
784+0.000	-7,70	-2,0%	956,943	-9,70	-2,0%	956,983	956,789	954,325	763.498,350	8.184.634,574	956,719	-2,0%	3,50	956,679	-2,0%	5,50
785+0.000	-7,70	-2,0%	957,359	-9,70	-2,0%	957,399	957,205	955,109	763.517,620	8.184.639,929	957,135	-2,0%	3,50	957,095	-2,0%	5,50
786+0.000	-7,70	-2,0%	957,923	-9,70	-2,0%	957,963	957,769	956,270	763.536,889	8.184.645,285	957,699	-2,0%	3,50	957,659	-2,0%	5,50
787+0.000	-7,70	-2,0%	958,634	-9,70	-2,0%	958,674	958,480	957,081	763.556,159	8.184.650,640	958,410	-2,0%	3,50	958,370	-2,0%	5,50
788+0.000	-7,70	-2,0%	959,493	-9,70	-2,0%	959,533	959,339	957,875	763.575,429	8.184.655,996	959,269	-2,0%	3,50	959,229	-2,0%	5,50
789+0.000	-7,70	-2,0%	960,442	-9,70	-2,0%	960,482	960,288	959,172	763.594,698	8.184.661,351	960,218	-2,0%	3,50	960,178	-2,0%	5,50
790+0.000	-7,70	-2,0%	961,393	-9,70	-2,0%	961,433	961,239	960,254	763.613,968	8.184.666,707	961,169	-2,0%	3,50	961,129	-2,0%	5,50
791+0.000	-7,70	-2,0%	962,343	-9,70	-2,0%	962,383	962,189	961,315	763.633,238	8.184.672,062	962,119	-2,0%	3,50	962,079	-2,0%	5,50
792+0.000	-7,70	-2,0%	963,293	-9,70	-2,0%	963,333	963,139	963,265	763.652,507	8.184.677,418	963,069	-2,0%	3,50	963,029	-2,0%	5,50
793+0.000	-7,70	-2,0%	964,244	-9,70	-2,0%	964,284	964,090	964,275	763.671,777	8.184.682,773	964,020	-2,0%	3,50	963,980	-2,0%	5,50
794+0.000	-7,70	-2,0%	965,190	-9,70	-2,0%	965,230	965,036	965,514	763.691,046	8.184.688,129	964,973	-1,8%	3,50	964,938	-1,8%	5,50
795+0.000	-8,14	-2,0%	966,059	-10,14	-2,0%	966,099	965,896	966,728	763.710,274	8.184.693,631	965,931	1,0%	3,50	965,951	1,0%	5,50
796+0.000	-8,40	-3,8%	966,955	-10,40	-3,8%	967,031	966,637	967,923	763.729,199	8.184.700,084	966,770	3,8%	3,50	966,845	3,8%	5,50
797+0.000	-8,90	-6,0%	967,792	-10,90	-6,0%	967,912	967,258	967,860	763.747,364	8.184.708,421	967,468	6,0%	3,50	967,588	6,0%	5,50
798+0.000	-8,90	-6,0%	968,294	-10,90	-6,0%	968,414	967,760	968,108	763.764,200	8.184.719,185	967,970	6,0%	3,50	968,090	6,0%	5,50
799+0.000	-8,90	-6,0%	968,676	-10,90	-6,0%	968,796	968,142	968,575	763.779,332	8.184.732,237	968,352	6,0%	3,50	968,472	6,0%	5,50
800+0.000	-8,90	-6,0%	968,943	-10,90	-6,0%	969,063	968,409	967,653	763.792,451	8.184.747,310	968,619	6,0%	3,50	968,739	6,0%	5,50
801+0.000	-8,90	-6,0%	969,176	-10,90	-6,0%	969,296	968,642	966,930	763.803,291	8.184.764,098	968,852	6,0%	3,50	968,972	6,0%	5,50
802+0.000	-8,50	-3,5%	969,168	-10,50	-3,5%	969,237	968,875	966,251	763.811,752	8.184.782,206	968,996	3,5%	3,50	969,065	3,5%	5,50
803+0.000	-8,09	-2,0%	969,270	-10,09	-2,0%	969,310	969,108	965,850	763.818,452	8.184.801,046	969,131	0,7%	3,50	969,144	0,7%	5,50
804+0.000	-7,70	-2,0%	969,496	-9,70	-2,0%	969,536	969,342	965,924	763.824,328	8.184.820,163	969,272	-2,0%	3,50	969,232	-2,0%	5,50
805+0.000	-7,70	-2,0%	969,729	-9,70	-2,0%	969,769	969,575	966,190	763.830,107	8.184.839,310	969,505	-2,0%	3,50	969,465	-2,0%	5,50
806+0.000	-7,70	-2,0%	969,962	-9,70	-2,0%	970,002	969,808	966,961	763.835,887	8.184.858,457	969,738	-2,0%	3,50	969,698	-2,0%	5,50
807+0.000	-7,70	-2,0%	970,192	-9,70	-2,0%	970,231	970,041	967,325	763.841,666	8.184.877,604	969,970	-2,0%	3,57	969,930	-2,0%	5,57
808+0.000	-7,70	0,8%	970,211	-9,70	0,8%	970,194	970,275	968,674	763.847,711	8.184.896,667	970,194	-2,0%	4,05	970,154	-2,0%	6,05
809+0.000	-7,70	3,6%	970,229	-9,70	3,6%	970,157	970,508	970,350	763.854,954	8.184.915,302	970,350	-3,6%	4,36	970,278	-3,6%	6,36
810+0.000	-7,70	6,0%	970,279	-9,70	6,0%	970,159	970,741	971,180	763.864,356	8.184.932,934	970,459	-6,0%	4,70	970,339	-6,0%	6,70
811+0.000	-7,70	6,0%	970,512	-9,70	6,0%	970,392	970,974	971,912	763.876,458	8.184.948,827	970,692	-6,0%	4,70	970,572	-6,0%	6,70
812+0.000	-7,70	6,0%	970,746	-9,70	6,0%	970,626	971,208	973,147	763.891,030	8.184.962,493	970,926	-6,0%	4,70	970,806	-6,0%	6,70
813+0.000	-7,70	6,0%	970,979	-9,70	6,0%	970,859	971,441	973,446	763.907,667	8.184.973,552	971,159	-6,0%	4,70	971,039	-6,0%	6,70
814+0.000	-7,70	6,0%	971,212	-9,70	6,0%	971,092	971,674	974,436	763.925,907	8.184.981,697	971,392	-6,0%	4,70	971,272	-6,0%	6,70
815+0.000	-7,70	6,0%	971,445	-9,70	6,0%	971,325	971,907	974,825	763.945,247	8.184.986,704	971,625	-6,0%	4,70	971,505	-6,0%	6,70
816+0.000	-7,70	3,7%	971,848	-9,70	3,7%	971,774	972,130	974,141	763.965,144	8.184.988,540	971,970	-3,7%	4,37	971,896	-3,7%	6,37
817+0.000	-7,70	0,9%	972,181	-9,70	0,9%	972,164	972,249	974,312	763.985,129	8.184.987,976	972,169	-2,0%	4,01	972,129	-2,0%	6,01
818+0.000	-7,70	-1,9%	972,387	-9,70	-1,9%	972,425	972,240	973,408	764.005,041	8.184.986,120	972,169	-2,0%	3,55	972,129	-2,0%	5,55



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

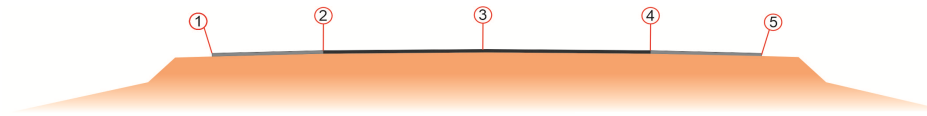
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
819+0.000	-7,70	-2,0%	972,258	-9,70	-2,0%	972,298	972,104	972,062	764.024,926	8.184.983,974	972,034	-2,0%	3,50	971,994	-2,0%	5,50
820+0.000	-7,70	-2,0%	971,994	-9,70	-2,0%	972,034	971,840	970,885	764.044,810	8.184.981,827	971,770	-2,0%	3,50	971,730	-2,0%	5,50
821+0.000	-8,12	-2,0%	971,611	-10,12	-2,0%	971,651	971,449	970,258	764.064,710	8.184.979,830	971,462	0,4%	3,50	971,470	0,4%	5,50
822+0.000	-8,49	-3,2%	971,199	-10,49	-3,2%	971,262	970,930	970,454	764.084,677	8.184.978,769	971,041	3,2%	3,50	971,104	3,2%	5,50
823+0.000	-8,90	-6,0%	970,814	-10,90	-6,0%	970,833	970,284	970,373	764.104,648	8.184.979,597	970,492	6,0%	3,50	970,612	6,0%	5,50
824+0.000	-8,90	-6,0%	970,044	-10,90	-6,0%	970,164	969,510	970,314	764.124,323	8.184.983,095	969,720	6,0%	3,50	969,840	6,0%	5,50
825+0.000	-8,90	-6,0%	969,154	-10,90	-6,0%	969,274	968,620	969,646	764.143,299	8.184.989,359	968,830	6,0%	3,50	968,950	6,0%	5,50
826+0.000	-8,90	-6,0%	968,240	-10,90	-6,0%	968,360	967,706	968,791	764.161,189	8.184.998,261	967,916	6,0%	3,50	968,036	6,0%	5,50
827+0.000	-8,90	-6,0%	967,326	-10,90	-6,0%	967,446	966,792	967,915	764.177,631	8.185.009,619	967,002	6,0%	3,50	967,122	6,0%	5,50
828+0.000	-8,75	-4,8%	966,294	-10,75	-4,8%	966,389	965,878	966,530	764.192,297	8.185.023,192	966,044	4,8%	3,50	966,139	4,8%	5,50
829+0.000	-8,32	-2,0%	965,130	-10,32	-2,0%	965,170	964,964	965,171	764.205,236	8.185.038,433	965,033	2,0%	3,50	965,072	2,0%	5,50
830+0.000	-7,91	-2,0%	964,208	-9,91	-2,0%	964,248	964,050	964,232	764.217,017	8.185.054,592	964,021	-0,8%	3,50	964,004	-0,8%	5,50
831+0.000	-7,70	-2,0%	963,291	-9,70	-2,0%	963,331	963,137	962,275	764.228,358	8.185.071,066	963,067	-2,0%	3,50	963,027	-2,0%	5,50
832+0.000	-7,70	-2,0%	962,377	-9,70	-2,0%	962,417	962,223	960,401	764.239,677	8.185.087,554	962,153	-2,0%	3,50	962,113	-2,0%	5,50
833+0.000	-7,70	-2,0%	961,463	-9,70	-2,0%	961,503	961,309	958,654	764.250,997	8.185.104,043	961,239	-2,0%	3,50	961,199	-2,0%	5,50
834+0.000	-7,70	-2,0%	960,549	-9,70	-2,0%	960,589	960,395	957,401	764.262,316	8.185.120,532	960,325	-2,0%	3,50	960,285	-2,0%	5,50
835+0.000	-7,70	-2,0%	959,635	-9,70	-2,0%	959,675	959,481	956,205	764.273,635	8.185.137,020	959,411	-2,0%	3,50	959,371	-2,0%	5,50
836+0.000	-7,70	-1,4%	958,677	-9,70	-1,4%	958,706	958,567	954,843	764.284,961	8.185.153,504	958,500	-2,0%	3,35	958,460	-2,0%	5,35
837+0.000	-7,70	1,3%	957,551	-9,70	1,3%	957,524	957,654	953,897	764.296,438	8.185.169,883	957,585	-2,0%	3,47	957,545	-2,0%	5,47
838+0.000	-7,70	4,1%	956,424	-9,70	4,1%	956,341	956,740	952,924	764.308,330	8.185.185,962	956,583	-4,1%	3,82	956,501	-4,1%	5,82
839+0.000	-7,70	5,4%	955,410	-9,70	5,4%	955,302	955,826	952,220	764.320,883	8.185.201,530	955,615	-5,4%	3,90	955,507	-5,4%	5,90
840+0.000	-7,70	5,4%	954,496	-9,70	5,4%	954,388	954,912	951,720	764.334,194	8.185.216,454	954,701	-5,4%	3,90	954,593	-5,4%	5,90
841+0.000	-7,70	5,4%	953,582	-9,70	5,4%	953,474	953,998	950,923	764.348,234	8.185.230,695	953,787	-5,4%	3,90	953,679	-5,4%	5,90
842+0.000	-7,70	5,4%	952,669	-9,70	5,4%	952,561	953,085	950,514	764.362,969	8.185.244,215	952,874	-5,4%	3,90	952,766	-5,4%	5,90
843+0.000	-7,70	5,4%	951,797	-9,70	5,4%	951,689	952,213	949,544	764.378,360	8.185.256,983	952,002	-5,4%	3,90	951,894	-5,4%	5,90
844+0.000	-7,70	5,4%	951,018	-9,70	5,4%	950,910	951,434	949,164	764.394,371	8.185.268,965	951,223	-5,4%	3,90	951,115	-5,4%	5,90
845+0.000	-7,70	5,4%	950,332	-9,70	5,4%	950,224	950,748	948,472	764.410,961	8.185.280,132	950,537	-5,4%	3,90	950,429	-5,4%	5,90
846+0.000	-7,70	5,4%	949,739	-9,70	5,4%	949,631	950,155	948,093	764.428,088	8.185.290,456	949,944	-5,4%	3,90	949,836	-5,4%	5,90
847+0.000	-7,70	5,4%	949,196	-9,70	5,4%	949,088	949,612	948,260	764.445,709	8.185.299,911	949,401	-5,4%	3,90	949,293	-5,4%	5,90
848+0.000	-7,70	3,5%	948,803	-9,70	3,5%	948,733	949,070	947,929	764.463,773	8.185.308,491	948,935	-3,5%	3,89	948,866	-3,5%	5,89
849+0.000	-7,70	0,7%	948,472	-9,70	0,7%	948,458	948,527	947,655	764.482,154	8.185.316,372	948,454	-2,0%	3,67	948,414	-2,0%	5,67
850+0.000	-7,70	-2,0%	948,139	-9,70	-2,0%	948,179	947,985	947,438	764.500,702	8.185.323,852	947,915	-2,0%	3,49	947,875	-2,0%	5,49
851+0.000	-7,70	-2,0%	947,597	-9,70	-2,0%	947,637	947,443	947,056	764.519,296	8.185.331,221	947,373	-2,0%	3,50	947,333	-2,0%	5,50
852+0.000	-7,70	-2,0%	947,054	-9,70	-2,0%	947,094	946,900	946,421	764.537,889	8.185.338,588	946,830	-2,0%	3,50	946,790	-2,0%	5,50
853+0.000	-7,70	-2,0%	946,512	-9,70	-2,0%	946,552	946,358	946,119	764.556,483	8.185.345,955	946,288	-2,0%	3,50	946,248	-2,0%	5,50
854+0.000	-7,70	-2,0%	945,969	-9,70	-2,0%	946,009	945,815	945,149	764.575,077	8.185.353,322	945,745	-2,0%	3,50	945,705	-2,0%	5,50
855+0.000	-7,70	-2,0%	945,427	-9,70	-2,0%	945,467	945,273	944,482	764.593,671	8.185.360,689	945,203	-2,0%	3,50	945,163	-2,0%	5,50
856+0.000	-7,70	-2,0%	944,885	-9,70	-2,0%	944,925	944,731	944,312	764.612,264	8.185.368,056	944,661	-2,0%	3,50	944,621	-2,0%	5,50
857+0.000	-7,70	-2,0%	944,342	-9,70	-2,0%	944,382	944,188	942,187	764.630,858	8.185.375,423	944,118	-2,0%	3,50	944,078	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

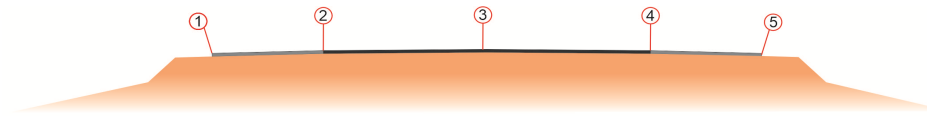
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
858+0.000	-7,70	-2,0%	943,800	-9,70	-2,0%	943,840	943,646	941,555	764.649,452	8.185.382,790	943,576	-2,0%	3,50	943,536	-2,0%	5,50
859+0.000	-7,70	-2,0%	943,258	-9,70	-2,0%	943,298	943,104	940,766	764.668,046	8.185.390,157	943,034	-2,0%	3,50	942,994	-2,0%	5,50
860+0.000	-7,70	-2,0%	942,715	-9,70	-2,0%	942,755	942,561	939,775	764.686,639	8.185.397,524	942,491	-2,0%	3,50	942,451	-2,0%	5,50
861+0.000	-7,70	-2,0%	942,173	-9,70	-2,0%	942,213	942,019	938,817	764.705,233	8.185.404,891	941,949	-2,0%	3,50	941,909	-2,0%	5,50
862+0.000	-7,70	-2,0%	941,631	-9,70	-2,0%	941,671	941,477	938,214	764.723,827	8.185.412,258	941,407	-2,0%	3,50	941,367	-2,0%	5,50
863+0.000	-7,70	-2,0%	941,142	-9,70	-2,0%	941,182	940,988	937,528	764.742,421	8.185.419,625	940,918	-2,0%	3,50	940,878	-2,0%	5,50
864+0.000	-7,70	-2,0%	940,738	-9,70	-2,0%	940,778	940,584	937,215	764.761,014	8.185.426,992	940,514	-2,0%	3,50	940,474	-2,0%	5,50
865+0.000	-7,70	-2,0%	940,420	-9,70	-2,0%	940,460	940,266	937,383	764.779,608	8.185.434,359	940,196	-2,0%	3,50	940,156	-2,0%	5,50
866+0.000	-7,70	-2,0%	940,188	-9,70	-2,0%	940,228	940,034	937,622	764.798,202	8.185.441,726	939,964	-2,0%	3,50	939,924	-2,0%	5,50
867+0.000	-7,70	-2,0%	940,041	-9,70	-2,0%	940,081	939,887	938,077	764.816,796	8.185.449,093	939,817	-2,0%	3,50	939,777	-2,0%	5,50
868+0.000	-7,70	-1,7%	939,955	-9,70	-1,7%	939,988	939,826	938,514	764.835,391	8.185.456,455	939,754	-2,0%	3,58	939,714	-2,0%	5,58
869+0.000	-7,70	1,1%	939,766	-9,70	1,1%	939,744	939,851	938,629	764.854,044	8.185.463,669	939,774	-2,0%	3,86	939,734	-2,0%	5,86
870+0.000	-7,70	3,9%	939,663	-9,70	3,9%	939,586	939,961	938,407	764.872,866	8.185.470,431	939,806	-3,9%	4,00	939,729	-3,9%	6,00
871+0.000	-7,70	5,4%	939,741	-9,70	5,4%	939,633	940,157	938,658	764.891,945	8.185.476,424	939,946	-5,4%	3,90	939,838	-5,4%	5,90
872+0.000	-7,70	5,4%	940,023	-9,70	5,4%	939,915	940,439	938,562	764.911,297	8.185.481,464	940,228	-5,4%	3,90	940,120	-5,4%	5,90
873+0.000	-7,70	5,4%	940,390	-9,70	5,4%	940,282	940,806	938,997	764.930,877	8.185.485,532	940,595	-5,4%	3,90	940,487	-5,4%	5,90
874+0.000	-7,70	5,4%	940,844	-9,70	5,4%	940,736	941,260	939,431	764.950,636	8.185.488,615	941,049	-5,4%	3,90	940,941	-5,4%	5,90
875+0.000	-7,70	5,4%	941,382	-9,70	5,4%	941,274	941,798	940,253	764.970,524	8.185.490,707	941,587	-5,4%	3,90	941,479	-5,4%	5,90
876+0.000	-7,70	5,4%	942,007	-9,70	5,4%	941,899	942,423	940,931	764.990,492	8.185.491,803	942,212	-5,4%	3,90	942,104	-5,4%	5,90
877+0.000	-7,70	3,1%	942,885	-9,70	3,1%	942,822	943,127	941,814	765.010,490	8.185.491,929	943,006	-3,1%	3,86	942,943	-3,1%	5,86
878+0.000	-7,70	0,4%	943,819	-9,70	0,4%	943,811	943,847	942,566	765.030,480	8.185.491,328	943,775	-2,0%	3,62	943,735	-2,0%	5,62
879+0.000	-7,70	-2,0%	944,721	-9,70	-2,0%	944,761	944,567	943,289	765.050,455	8.185.490,334	944,497	-2,0%	3,49	944,457	-2,0%	5,49
880+0.000	-7,70	-2,0%	945,442	-9,70	-2,0%	945,482	945,288	944,626	765.070,426	8.185.489,248	945,218	-2,0%	3,50	945,178	-2,0%	5,50
881+0.000	-7,70	-2,0%	946,162	-9,70	-2,0%	946,202	946,008	945,251	765.090,396	8.185.488,162	945,938	-2,0%	3,50	945,898	-2,0%	5,50
882+0.000	-7,70	-2,0%	946,882	-9,70	-2,0%	946,922	946,728	945,522	765.110,367	8.185.487,076	946,658	-2,0%	3,50	946,618	-2,0%	5,50
883+0.000	-7,70	-2,0%	947,603	-9,70	-2,0%	947,643	947,449	946,235	765.130,337	8.185.485,990	947,379	-2,0%	3,50	947,339	-2,0%	5,50
884+0.000	-7,70	-2,0%	948,323	-9,70	-2,0%	948,363	948,169	946,851	765.150,308	8.185.484,904	948,099	-2,0%	3,50	948,059	-2,0%	5,50
885+0.000	-7,70	-2,0%	949,043	-9,70	-2,0%	949,083	948,889	947,499	765.170,278	8.185.483,818	948,819	-2,0%	3,50	948,779	-2,0%	5,50
886+0.000	-7,70	-2,0%	949,763	-9,70	-2,0%	949,803	949,609	948,234	765.190,249	8.185.482,732	949,539	-2,0%	3,50	949,499	-2,0%	5,50
887+0.000	-7,70	-2,0%	950,484	-9,70	-2,0%	950,524	950,330	949,524	765.210,219	8.185.481,646	950,260	-2,0%	3,50	950,220	-2,0%	5,50
888+0.000	-7,70	-2,0%	951,204	-9,70	-2,0%	951,244	951,050	950,707	765.230,190	8.185.480,560	950,980	-2,0%	3,50	950,940	-2,0%	5,50
889+0.000	-7,70	-2,0%	951,924	-9,70	-2,0%	951,964	951,770	951,869	765.250,160	8.185.479,474	951,700	-2,0%	3,50	951,660	-2,0%	5,50
890+0.000	-7,70	-2,0%	952,645	-9,70	-2,0%	952,685	952,491	953,595	765.270,131	8.185.478,388	952,434	-1,6%	3,50	952,401	-1,6%	5,50
891+0.000	-7,70	-2,0%	953,365	-9,70	-2,0%	953,405	953,211	954,110	765.290,101	8.185.477,302	953,252	1,2%	3,50	953,275	1,2%	5,50
892+0.000	-7,70	-4,0%	954,237	-9,70	-4,0%	954,316	953,931	955,220	765.310,081	8.185.476,413	954,070	4,0%	3,50	954,149	4,0%	5,50
893+0.000	-7,70	-4,2%	954,975	-9,70	-4,2%	955,059	954,652	956,386	765.330,078	8.185.476,103	954,799	4,2%	3,50	954,883	4,2%	5,50
894+0.000	-7,70	-4,2%	955,695	-9,70	-4,2%	955,779	955,372	957,442	765.350,075	8.185.476,381	955,519	4,2%	3,50	955,603	4,2%	5,50
895+0.000	-7,70	-4,2%	956,415	-9,70	-4,2%	956,499	956,092	958,496	765.370,056	8.185.477,246	956,239	4,2%	3,50	956,323	4,2%	5,50
896+0.000	-7,70	-4,2%	957,135	-9,70	-4,2%	957,219	956,812	959,202	765.390,002	8.185.478,699	956,959	4,2%	3,50	957,043	4,2%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

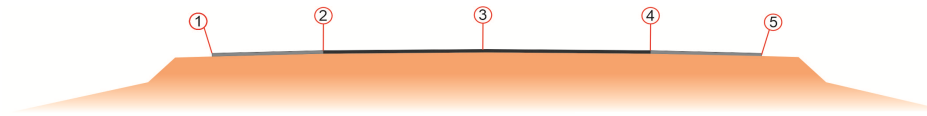
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
897+0.000	-7,70	-4,2%	957,856	-9,70	-4,2%	957,940	957,533	959,175	765.409,897	8.185.480,738	957,680	4,2%	3,50	957,764	4,2%	5,50
898+0.000	-7,70	-2,1%	958,412	-9,70	-2,1%	958,453	958,253	958,991	765.429,724	8.185.483,361	958,325	2,1%	3,50	958,366	2,1%	5,50
899+0.000	-7,70	-2,0%	959,127	-9,70	-2,0%	959,167	958,973	958,674	765.449,499	8.185.486,350	958,947	-0,7%	3,50	958,932	-0,7%	5,50
900+0.000	-7,70	-2,0%	959,848	-9,70	-2,0%	959,888	959,694	958,558	765.469,274	8.185.489,344	959,624	-2,0%	3,50	959,584	-2,0%	5,50
901+0.000	-7,70	-2,0%	960,568	-9,70	-2,0%	960,608	960,414	958,628	765.489,048	8.185.492,338	960,344	-2,0%	3,50	960,304	-2,0%	5,50
902+0.000	-7,70	-2,0%	961,288	-9,70	-2,0%	961,328	961,134	959,056	765.508,823	8.185.495,333	961,064	-2,0%	3,50	961,024	-2,0%	5,50
903+0.000	-7,70	-2,0%	962,008	-9,70	-2,0%	962,048	961,854	959,834	765.528,597	8.185.498,327	961,784	-2,0%	3,50	961,744	-2,0%	5,50
904+0.000	-7,70	-2,0%	962,729	-9,70	-2,0%	962,769	962,575	960,383	765.548,372	8.185.501,321	962,505	-2,0%	3,50	962,465	-2,0%	5,50
905+0.000	-7,70	-2,0%	963,449	-9,70	-2,0%	963,489	963,295	961,109	765.568,147	8.185.504,315	963,225	-2,0%	3,50	963,185	-2,0%	5,50
906+0.000	-7,70	-2,0%	964,169	-9,70	-2,0%	964,209	964,015	962,035	765.587,921	8.185.507,309	963,945	-2,0%	3,50	963,905	-2,0%	5,50
907+0.000	-7,70	-2,0%	964,890	-9,70	-2,0%	964,930	964,736	962,251	765.607,696	8.185.510,303	964,666	-2,0%	3,50	964,626	-2,0%	5,50
908+0.000	-7,70	-2,0%	965,610	-9,70	-2,0%	965,650	965,456	962,735	765.627,470	8.185.513,298	965,386	-2,0%	3,50	965,346	-2,0%	5,50
909+0.000	-7,70	-2,0%	966,273	-9,70	-2,0%	966,313	966,119	964,188	765.647,245	8.185.516,292	966,049	-2,0%	3,50	966,009	-2,0%	5,50
910+0.000	-7,70	-2,0%	966,808	-9,70	-2,0%	966,848	966,654	966,174	765.667,020	8.185.519,286	966,584	-2,0%	3,50	966,544	-2,0%	5,50
911+0.000	-7,70	-2,0%	967,215	-9,70	-2,0%	967,255	967,061	967,915	765.686,794	8.185.522,280	966,991	-2,0%	3,50	966,951	-2,0%	5,50
912+0.000	-7,70	-2,0%	967,494	-9,70	-2,0%	967,534	967,340	969,333	765.706,569	8.185.525,274	967,295	-1,3%	3,50	967,269	-1,3%	5,50
913+0.000	-7,81	-2,0%	967,647	-9,81	-2,0%	967,687	967,491	970,476	765.726,342	8.185.528,277	967,544	1,5%	3,50	967,574	1,5%	5,50
914+0.000	-8,32	-4,3%	967,871	-10,32	-4,3%	967,957	967,514	970,980	765.746,052	8.185.531,662	967,664	4,3%	3,50	967,750	4,3%	5,50
915+0.000	-8,50	-6,0%	967,919	-10,50	-6,0%	968,039	967,409	970,985	765.765,507	8.185.536,273	967,619	6,0%	3,50	967,739	6,0%	5,50
916+0.000	-8,50	-6,0%	967,686	-10,50	-6,0%	967,806	967,176	970,975	765.784,474	8.185.542,598	967,386	6,0%	3,50	967,506	6,0%	5,50
917+0.000	-8,50	-6,0%	967,325	-10,50	-6,0%	967,445	966,815	970,941	765.802,788	8.185.550,618	967,025	6,0%	3,50	967,145	6,0%	5,50
918+0.000	-8,50	-6,0%	966,835	-10,50	-6,0%	966,955	966,325	970,040	765.820,298	8.185.560,268	966,535	6,0%	3,50	966,655	6,0%	5,50
919+0.000	-8,50	-6,0%	966,218	-10,50	-6,0%	966,338	965,708	968,656	765.836,860	8.185.571,467	965,918	6,0%	3,50	966,038	6,0%	5,50
920+0.000	-8,41	-5,0%	965,383	-10,41	-5,0%	965,483	964,963	966,356	765.852,341	8.185.584,119	965,138	5,0%	3,50	965,237	5,0%	5,50
921+0.000	-7,91	-2,2%	964,264	-9,91	-2,2%	964,308	964,090	965,008	765.866,868	8.185.597,862	964,167	2,2%	3,50	964,211	2,2%	5,50
922+0.000	-7,70	-2,0%	963,243	-9,70	-2,0%	963,283	963,089	964,182	765.880,986	8.185.612,028	963,068	-0,6%	3,50	963,057	-0,6%	5,50
923+0.000	-7,70	-2,0%	962,114	-9,70	-2,0%	962,154	961,960	964,077	765.895,077	8.185.626,222	961,890	-2,0%	3,50	961,850	-2,0%	5,50
924+0.000	-7,70	-2,0%	960,914	-9,70	-2,0%	960,954	960,760	962,951	765.909,167	8.185.640,416	960,690	-2,0%	3,50	960,650	-2,0%	5,50
925+0.000	-7,70	-2,0%	959,714	-9,70	-2,0%	959,754	959,560	961,204	765.923,257	8.185.654,609	959,490	-2,0%	3,50	959,450	-2,0%	5,50
926+0.000	-7,70	-2,0%	958,514	-9,70	-2,0%	958,554	958,360	959,398	765.937,348	8.185.668,803	958,290	-2,0%	3,50	958,250	-2,0%	5,50
927+0.000	-7,70	-0,5%	957,195	-9,70	-0,5%	957,204	957,160	957,885	765.951,460	8.185.682,975	957,085	-2,0%	3,75	957,045	-2,0%	5,75
928+0.000	-7,70	2,3%	955,780	-9,70	2,3%	955,733	955,960	956,626	765.965,854	8.185.696,860	955,871	-2,3%	3,81	955,824	-2,3%	5,81
929+0.000	-7,70	5,1%	954,365	-9,70	5,1%	954,262	954,760	955,678	765.980,907	8.185.710,023	954,553	-5,1%	4,03	954,451	-5,1%	6,03
930+0.000	-7,70	6,0%	953,098	-9,70	6,0%	952,978	953,560	954,732	765.996,918	8.185.721,998	953,314	-6,0%	4,10	953,194	-6,0%	6,10
931+0.000	-7,70	6,0%	951,898	-9,70	6,0%	951,778	952,360	953,685	766.013,906	8.185.732,540	952,114	-6,0%	4,10	951,994	-6,0%	6,10
932+0.000	-7,70	6,0%	950,698	-9,70	6,0%	950,578	951,160	952,283	766.031,746	8.185.741,567	950,914	-6,0%	4,10	950,794	-6,0%	6,10
933+0.000	-7,70	4,5%	949,613	-9,70	4,5%	949,523	949,961	950,215	766.050,298	8.185.749,023	949,783	-4,5%	3,93	949,693	-4,5%	5,93
934+0.000	-7,70	1,7%	948,725	-9,70	1,7%	948,690	948,858	948,037	766.069,335	8.185.755,145	948,781	-2,0%	3,83	948,741	-2,0%	5,83
935+0.000	-7,70	-1,1%	947,992	-9,70	-1,1%	948,013	947,910	946,183	766.088,618	8.185.760,450	947,840	-2,0%	3,50	947,800	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

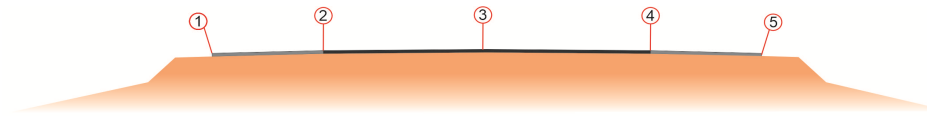
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
936+0.000	-7,70	-2,0%	947,272	-9,70	-2,0%	947,312	947,118	944,289	766.107,975	8.185.765,479	947,048	-2,0%	3,50	947,008	-2,0%	5,50
937+0.000	-7,70	-2,0%	946,635	-9,70	-2,0%	946,675	946,481	942,548	766.127,335	8.185.770,498	946,411	-2,0%	3,50	946,371	-2,0%	5,50
938+0.000	-7,70	-2,0%	946,153	-9,70	-2,0%	946,193	945,999	941,029	766.146,695	8.185.775,517	945,929	-2,0%	3,50	945,889	-2,0%	5,50
939+0.000	-7,70	-2,0%	945,826	-9,70	-2,0%	945,866	945,672	939,647	766.166,055	8.185.780,536	945,602	-2,0%	3,50	945,562	-2,0%	5,50
940+0.000	-7,70	-2,0%	945,655	-9,70	-2,0%	945,695	945,501	939,154	766.185,415	8.185.785,555	945,431	-2,0%	3,50	945,391	-2,0%	5,50
941+0.000	-7,70	-2,0%	945,639	-9,70	-2,0%	945,679	945,485	939,364	766.204,775	8.185.790,575	945,415	-2,0%	3,50	945,375	-2,0%	5,50
942+0.000	-7,70	-2,0%	945,779	-9,70	-2,0%	945,819	945,625	940,291	766.224,135	8.185.795,594	945,555	-2,0%	3,50	945,515	-2,0%	5,50
943+0.000	-7,70	-2,0%	946,073	-9,70	-2,0%	946,113	945,919	941,400	766.243,495	8.185.800,613	945,849	-2,0%	3,50	945,809	-2,0%	5,50
944+0.000	-7,70	-2,0%	946,523	-9,70	-2,0%	946,563	946,369	943,001	766.262,855	8.185.805,632	946,299	-2,0%	3,50	946,259	-2,0%	5,50
945+0.000	-7,70	-2,0%	947,129	-9,70	-2,0%	947,169	946,975	944,832	766.282,215	8.185.810,651	946,905	-2,0%	3,50	946,865	-2,0%	5,50
946+0.000	-7,70	-2,0%	947,889	-9,70	-2,0%	947,929	947,735	946,524	766.301,575	8.185.815,670	947,665	-2,0%	3,50	947,625	-2,0%	5,50
947+0.000	-7,70	-2,0%	948,805	-9,70	-2,0%	948,845	948,651	948,157	766.320,935	8.185.820,689	948,581	-2,0%	3,50	948,541	-2,0%	5,50
948+0.000	-7,70	-2,0%	949,877	-9,70	-2,0%	949,917	949,723	949,453	766.340,295	8.185.825,708	949,653	-2,0%	3,50	949,613	-2,0%	5,50
949+0.000	-7,86	-2,0%	951,105	-9,86	-2,0%	951,145	950,948	950,526	766.359,645	8.185.830,767	950,942	-0,2%	3,50	950,939	-0,2%	5,50
950+0.000	-8,00	-2,6%	952,440	-10,00	-2,6%	952,492	952,233	951,749	766.378,903	8.185.836,162	952,324	2,6%	3,50	952,375	2,6%	5,50
951+0.000	-8,24	-5,4%	953,959	-10,24	-5,4%	954,066	953,518	953,108	766.397,939	8.185.842,289	953,705	5,4%	3,50	953,812	5,4%	5,50
952+0.000	-8,30	-5,8%	955,283	-10,30	-5,8%	955,399	954,802	954,928	766.416,593	8.185.849,492	955,005	5,8%	3,50	955,121	5,8%	5,50
953+0.000	-8,30	-5,8%	956,568	-10,30	-5,8%	956,684	956,087	957,323	766.434,762	8.185.857,846	956,290	5,8%	3,50	956,406	5,8%	5,50
954+0.000	-8,30	-5,8%	957,847	-10,30	-5,8%	957,963	957,366	960,025	766.452,373	8.185.867,318	957,569	5,8%	3,50	957,685	5,8%	5,50
955+0.000	-8,30	-5,8%	958,959	-10,30	-5,8%	959,075	958,478	963,883	766.469,358	8.185.877,871	958,681	5,8%	3,50	958,797	5,8%	5,50
956+0.000	-8,30	-5,8%	959,828	-10,30	-5,8%	959,944	959,347	964,893	766.485,650	8.185.889,465	959,550	5,8%	3,50	959,666	5,8%	5,50
957+0.000	-8,30	-5,8%	960,455	-10,30	-5,8%	960,571	959,974	964,544	766.501,187	8.185.902,054	960,177	5,8%	3,50	960,293	5,8%	5,50
958+0.000	-8,30	-5,8%	960,840	-10,30	-5,8%	960,956	960,359	964,069	766.515,907	8.185.915,589	960,562	5,8%	3,50	960,678	5,8%	5,50
959+0.000	-8,30	-5,8%	960,983	-10,30	-5,8%	961,099	960,502	963,237	766.529,753	8.185.930,017	960,705	5,8%	3,50	960,821	5,8%	5,50
960+0.000	-8,30	-5,8%	960,884	-10,30	-5,8%	961,000	960,403	961,303	766.542,671	8.185.945,281	960,606	5,8%	3,50	960,722	5,8%	5,50
961+0.000	-8,21	-5,0%	960,476	-10,21	-5,0%	960,577	960,062	959,745	766.554,612	8.185.961,321	960,238	5,0%	3,50	960,339	5,0%	5,50
962+0.000	-7,99	-2,3%	959,659	-9,99	-2,3%	959,705	959,478	958,594	766.565,646	8.185.978,000	959,557	2,3%	3,50	959,603	2,3%	5,50
963+0.000	-7,93	-2,0%	958,817	-9,93	-2,0%	958,857	958,658	957,675	766.576,075	8.185.995,065	958,641	-0,5%	3,50	958,631	-0,5%	5,50
964+0.000	-7,70	-2,0%	957,918	-9,70	-2,0%	957,958	957,764	956,788	766.586,245	8.186.012,286	957,694	-2,0%	3,50	957,654	-2,0%	5,50
965+0.000	-7,70	-2,0%	957,023	-9,70	-2,0%	957,063	956,869	955,600	766.596,392	8.186.029,520	956,799	-2,0%	3,50	956,759	-2,0%	5,50
966+0.000	-7,70	-2,0%	956,129	-9,70	-2,0%	956,169	955,975	954,838	766.606,540	8.186.046,755	955,905	-2,0%	3,50	955,865	-2,0%	5,50
967+0.000	-7,70	-2,0%	955,235	-9,70	-2,0%	955,275	955,081	953,453	766.616,687	8.186.063,990	955,011	-2,0%	3,50	954,971	-2,0%	5,50
968+0.000	-7,70	-2,0%	954,387	-9,70	-2,0%	954,427	954,233	952,548	766.626,834	8.186.081,224	954,163	-2,0%	3,50	954,123	-2,0%	5,50
969+0.000	-7,70	-2,0%	953,649	-9,70	-2,0%	953,689	953,495	951,408	766.636,982	8.186.098,459	953,425	-2,0%	3,50	953,385	-2,0%	5,50
970+0.000	-7,70	-2,0%	953,020	-9,70	-2,0%	953,060	952,866	950,656	766.647,129	8.186.115,693	952,796	-2,0%	3,50	952,756	-2,0%	5,50
971+0.000	-7,70	-2,0%	952,501	-9,70	-2,0%	952,541	952,347	948,928	766.657,277	8.186.132,928	952,277	-2,0%	3,50	952,237	-2,0%	5,50
972+0.000	-7,70	-2,0%	952,090	-9,70	-2,0%	952,130	951,936	948,663	766.667,424	8.186.150,163	951,866	-2,0%	3,50	951,826	-2,0%	5,50
973+0.000	-7,70	-2,0%	951,789	-9,70	-2,0%	951,829	951,635	947,814	766.677,571	8.186.167,397	951,565	-2,0%	3,50	951,525	-2,0%	5,50
974+0.000	-7,70	-2,0%	951,597	-9,70	-2,0%	951,637	951,443	947,358	766.687,719	8.186.184,632	951,373	-2,0%	3,50	951,333	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

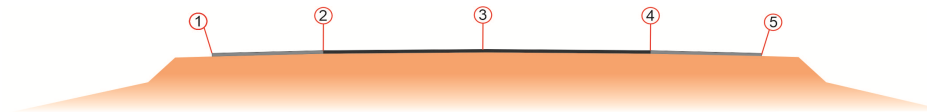
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
975+0.000	-7,70	-2,0%	951,515	-9,70	-2,0%	951,555	951,361	947,237	766.697,866	8.186.201,866	951,291	-2,0%	3,50	951,251	-2,0%	5,50
976+0.000	-7,70	-1,9%	951,531	-9,70	-1,9%	951,568	951,387	947,462	766.708,013	8.186.219,101	951,317	-2,0%	3,50	951,277	-2,0%	5,50
977+0.000	-7,70	0,9%	951,451	-9,70	0,9%	951,433	951,523	948,049	766.718,161	8.186.236,336	951,453	-2,0%	3,50	951,413	-2,0%	5,50
978+0.000	-7,70	3,7%	951,481	-9,70	3,7%	951,406	951,768	949,258	766.728,448	8.186.253,486	951,637	-3,7%	3,50	951,563	-3,7%	5,50
979+0.000	-7,70	4,2%	951,752	-9,70	4,2%	951,668	952,075	950,075	766.739,232	8.186.270,329	951,928	-4,2%	3,50	951,844	-4,2%	5,50
980+0.000	-7,70	4,2%	952,059	-9,70	4,2%	951,975	952,382	951,489	766.750,521	8.186.286,837	952,235	-4,2%	3,50	952,151	-4,2%	5,50
981+0.000	-7,70	4,2%	952,366	-9,70	4,2%	952,282	952,689	953,012	766.762,306	8.186.302,996	952,542	-4,2%	3,50	952,458	-4,2%	5,50
982+0.000	-7,70	4,2%	952,673	-9,70	4,2%	952,589	952,996	954,395	766.774,574	8.186.318,790	952,849	-4,2%	3,50	952,765	-4,2%	5,50
983+0.000	-7,70	4,2%	952,980	-9,70	4,2%	952,896	953,303	955,651	766.787,316	8.186.334,205	953,156	-4,2%	3,50	953,072	-4,2%	5,50
984+0.000	-7,70	4,2%	953,288	-9,70	4,2%	953,204	953,611	956,558	766.800,519	8.186.349,227	953,464	-4,2%	3,50	953,380	-4,2%	5,50
985+0.000	-7,70	4,2%	953,595	-9,70	4,2%	953,511	953,918	957,560	766.814,170	8.186.363,842	953,771	-4,2%	3,50	953,687	-4,2%	5,50
986+0.000	-7,70	2,0%	954,073	-9,70	2,0%	954,034	954,225	958,540	766.828,259	8.186.378,036	954,155	-2,0%	3,50	954,115	-2,0%	5,50
987+0.000	-7,70	-0,8%	954,596	-9,70	-0,8%	954,613	954,532	959,316	766.842,603	8.186.391,974	954,462	-2,0%	3,50	954,422	-2,0%	5,50
988+0.000	-7,70	-2,0%	954,993	-9,70	-2,0%	955,033	954,839	959,864	766.856,949	8.186.405,908	954,769	-2,0%	3,50	954,729	-2,0%	5,50
989+0.000	-7,70	-2,0%	955,301	-9,70	-2,0%	955,341	955,147	959,210	766.871,296	8.186.419,843	955,077	-2,0%	3,50	955,037	-2,0%	5,50
990+0.000	-7,70	-2,0%	955,608	-9,70	-2,0%	955,648	955,454	958,523	766.885,642	8.186.433,778	955,384	-2,0%	3,50	955,344	-2,0%	5,50
991+0.000	-7,70	-2,0%	955,915	-9,70	-2,0%	955,955	955,761	957,233	766.899,988	8.186.447,713	955,691	-2,0%	3,50	955,651	-2,0%	5,50
992+0.000	-7,70	-2,0%	956,222	-9,70	-2,0%	956,262	956,068	956,381	766.914,335	8.186.461,648	955,998	-2,0%	3,50	955,958	-2,0%	5,50
993+0.000	-7,70	-2,0%	956,529	-9,70	-2,0%	956,569	956,375	955,443	766.928,681	8.186.475,583	956,305	-2,0%	3,50	956,265	-2,0%	5,50
994+0.000	-7,70	-2,0%	956,836	-9,70	-2,0%	956,876	956,682	954,355	766.943,027	8.186.489,518	956,612	-2,0%	3,50	956,572	-2,0%	5,50
995+0.000	-7,70	-2,0%	957,144	-9,70	-2,0%	957,184	956,990	953,810	766.957,374	8.186.503,453	956,920	-2,0%	3,50	956,880	-2,0%	5,50
996+0.000	-7,70	-2,0%	957,451	-9,70	-2,0%	957,491	957,297	953,592	766.971,720	8.186.517,388	957,227	-2,0%	3,50	957,187	-2,0%	5,50
997+0.000	-7,70	-2,0%	957,758	-9,70	-2,0%	957,798	957,604	954,305	766.986,066	8.186.531,323	957,534	-2,0%	3,50	957,494	-2,0%	5,50
998+0.000	-7,70	-2,0%	958,065	-9,70	-2,0%	958,105	957,911	954,977	767.000,413	8.186.545,258	957,841	-2,0%	3,50	957,801	-2,0%	5,50
999+0.000	-7,70	-2,0%	958,373	-9,70	-2,0%	958,413	958,219	956,159	767.014,759	8.186.559,193	958,149	-2,0%	3,50	958,109	-2,0%	5,50
1000+0.000	-7,70	-2,0%	958,722	-9,70	-2,0%	958,762	958,568	957,194	767.029,105	8.186.573,128	958,498	-2,0%	3,50	958,458	-2,0%	5,50
1001+0.000	-7,70	-2,0%	959,149	-9,70	-2,0%	959,189	958,995	958,125	767.043,452	8.186.587,063	958,925	-2,0%	3,50	958,885	-2,0%	5,50
1002+0.000	-7,70	-2,0%	959,652	-9,70	-2,0%	959,692	959,498	958,939	767.057,798	8.186.600,998	959,428	-2,0%	3,50	959,388	-2,0%	5,50
1003+0.000	-7,70	-2,0%	960,233	-9,70	-2,0%	960,273	960,079	959,177	767.072,144	8.186.614,933	960,009	-2,0%	3,50	959,969	-2,0%	5,50
1004+0.000	-7,70	-2,0%	960,891	-9,70	-2,0%	960,931	960,737	959,602	767.086,491	8.186.628,868	960,667	-2,0%	3,50	960,627	-2,0%	5,50
1005+0.000	-7,70	-2,0%	961,627	-9,70	-2,0%	961,667	961,473	960,500	767.100,837	8.186.642,803	961,403	-2,0%	3,50	961,363	-2,0%	5,50
1006+0.000	-7,70	-2,0%	962,397	-9,70	-2,0%	962,437	962,243	960,999	767.115,183	8.186.656,738	962,173	-2,0%	3,50	962,133	-2,0%	5,50
1007+0.000	-7,70	-2,0%	963,167	-9,70	-2,0%	963,207	963,013	961,797	767.129,530	8.186.670,672	962,943	-2,0%	3,50	962,903	-2,0%	5,50
1008+0.000	-7,70	-2,0%	963,937	-9,70	-2,0%	963,977	963,783	962,503	767.143,876	8.186.684,607	963,713	-2,0%	3,50	963,673	-2,0%	5,50
1009+0.000	-7,70	-2,0%	964,707	-9,70	-2,0%	964,747	964,553	963,286	767.158,222	8.186.698,542	964,483	-2,0%	3,50	964,443	-2,0%	5,50
1010+0.000	-7,70	-2,0%	965,478	-9,70	-2,0%	965,518	965,324	963,974	767.172,569	8.186.712,477	965,254	-2,0%	3,50	965,214	-2,0%	5,50
1011+0.000	-7,70	-2,0%	966,248	-9,70	-2,0%	966,288	966,094	964,540	767.186,915	8.186.726,412	966,024	-2,0%	3,50	965,984	-2,0%	5,50
1012+0.000	-7,70	-2,0%	967,018	-9,70	-2,0%	967,058	966,864	964,949	767.201,261	8.186.740,347	966,794	-2,0%	3,50	966,754	-2,0%	5,50
1013+0.000	-7,70	0,4%	967,602	-9,70	0,4%	967,593	967,634	966,337	767.215,620	8.186.754,269	967,559	-2,0%	3,76	967,519	-2,0%	5,76



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

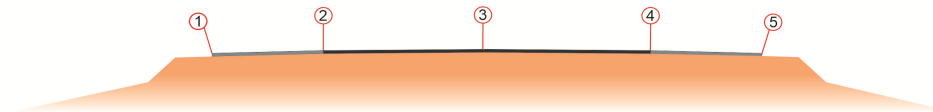
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1014+0.000	-7,70	3,2%	968,158	-9,70	3,2%	968,094	968,405	966,684	767.230,297	8.186.767,853	968,278	-3,2%	3,97	968,213	-3,2%	5,97
1015+0.000	-7,70	6,0%	968,713	-9,70	6,0%	968,593	969,175	968,592	767.245,843	8.186.780,425	968,917	-6,0%	4,30	968,797	-6,0%	6,30
1016+0.000	-7,70	6,0%	969,483	-9,70	6,0%	969,363	969,945	968,907	767.262,604	8.186.791,319	969,687	-6,0%	4,30	969,567	-6,0%	6,30
1017+0.000	-7,70	6,0%	970,278	-9,70	6,0%	970,158	970,740	970,085	767.280,469	8.186.800,286	970,482	-6,0%	4,30	970,362	-6,0%	6,30
1018+0.000	-7,70	6,0%	971,158	-9,70	6,0%	971,038	971,620	970,196	767.299,218	8.186.807,218	971,362	-6,0%	4,30	971,242	-6,0%	6,30
1019+0.000	-7,70	6,0%	972,124	-9,70	6,0%	972,004	972,586	970,896	767.318,621	8.186.812,028	972,328	-6,0%	4,30	972,208	-6,0%	6,30
1020+0.000	-7,70	6,0%	973,177	-9,70	6,0%	973,057	973,639	971,201	767.338,437	8.186.814,656	973,381	-6,0%	4,30	973,261	-6,0%	6,30
1021+0.000	-7,70	6,0%	974,317	-9,70	6,0%	974,197	974,779	971,835	767.358,422	8.186.815,072	974,521	-6,0%	4,30	974,401	-6,0%	6,30
1022+0.000	-7,70	6,0%	975,518	-9,70	6,0%	975,398	975,980	972,914	767.378,331	8.186.813,268	975,722	-6,0%	4,30	975,602	-6,0%	6,30
1023+0.000	-7,70	6,0%	976,722	-9,70	6,0%	976,602	977,184	974,615	767.397,916	8.186.809,269	976,926	-6,0%	4,30	976,806	-6,0%	6,30
1024+0.000	-7,70	6,0%	977,926	-9,70	6,0%	977,806	978,388	976,441	767.416,937	8.186.803,122	978,130	-6,0%	4,30	978,010	-6,0%	6,30
1025+0.000	-7,70	6,0%	979,130	-9,70	6,0%	979,010	979,592	978,121	767.435,160	8.186.794,904	979,334	-6,0%	4,30	979,214	-6,0%	6,30
1026+0.000	-7,70	6,0%	980,334	-9,70	6,0%	980,214	980,796	979,995	767.452,358	8.186.784,716	980,538	-6,0%	4,30	980,418	-6,0%	6,30
1027+0.000	-7,70	6,0%	981,538	-9,70	6,0%	981,418	982,000	981,663	767.468,321	8.186.772,684	981,742	-6,0%	4,30	981,622	-6,0%	6,30
1028+0.000	-7,70	5,0%	982,821	-9,70	5,0%	982,721	983,205	983,567	767.482,857	8.186.758,961	982,995	-5,0%	4,21	982,895	-5,0%	6,21
1029+0.000	-7,70	2,2%	984,240	-9,70	2,2%	984,196	984,409	984,518	767.496,057	8.186.743,942	984,323	-2,2%	3,90	984,279	-2,2%	5,90
1030+0.000	-7,70	-0,6%	985,658	-9,70	-0,6%	985,670	985,613	986,190	767.508,484	8.186.728,272	985,542	-2,0%	3,58	985,502	-2,0%	5,58
1031+0.000	-7,70	-2,0%	986,971	-9,70	-2,0%	987,011	986,817	987,000	767.520,740	8.186.712,468	986,747	-2,0%	3,50	986,707	-2,0%	5,50
1032+0.000	-7,70	-2,0%	988,175	-9,70	-2,0%	988,215	988,021	987,337	767.532,996	8.186.696,663	987,951	-2,0%	3,50	987,911	-2,0%	5,50
1033+0.000	-7,70	-2,0%	989,379	-9,70	-2,0%	989,419	989,225	989,109	767.545,252	8.186.680,858	989,155	-2,0%	3,50	989,115	-2,0%	5,50
1034+0.000	-7,70	-2,0%	990,583	-9,70	-2,0%	990,623	990,429	990,212	767.557,508	8.186.665,053	990,359	-2,0%	3,50	990,319	-2,0%	5,50
1035+0.000	-7,70	-2,0%	991,787	-9,70	-2,0%	991,827	991,633	992,035	767.569,764	8.186.649,248	991,570	-1,8%	3,50	991,534	-1,8%	5,50
1036+0.000	-7,70	-2,0%	992,991	-9,70	-2,0%	993,031	992,837	992,974	767.582,021	8.186.633,444	992,872	1,0%	3,50	992,891	1,0%	5,50
1037+0.000	-7,70	-3,8%	994,332	-9,70	-3,8%	994,408	994,041	994,313	767.594,504	8.186.617,819	994,173	3,8%	3,50	994,249	3,8%	5,50
1038+0.000	-7,70	-6,0%	995,707	-9,70	-6,0%	995,827	995,245	995,321	767.607,900	8.186.602,977	995,455	6,0%	3,50	995,575	6,0%	5,50
1039+0.000	-7,70	-6,0%	996,833	-9,70	-6,0%	996,953	996,371	996,241	767.622,653	8.186.589,485	996,581	6,0%	3,50	996,701	6,0%	5,50
1040+0.000	-7,70	-6,0%	997,742	-9,70	-6,0%	997,862	997,280	997,020	767.638,679	8.186.577,534	997,490	6,0%	3,50	997,610	6,0%	5,50
1041+0.000	-7,70	-4,5%	998,316	-9,70	-4,5%	998,407	997,969	997,538	767.655,805	8.186.567,220	998,127	4,5%	3,50	998,217	4,5%	5,50
1042+0.000	-7,70	-2,0%	998,593	-9,70	-2,0%	998,633	998,439	996,601	767.673,638	8.186.558,170	998,499	1,7%	3,50	998,534	1,7%	5,50
1043+0.000	-7,70	-2,0%	998,844	-9,70	-2,0%	998,884	998,690	995,920	767.691,690	8.186.549,559	998,653	-1,1%	3,50	998,631	-1,1%	5,50
1044+0.000	-7,70	-2,0%	998,876	-9,70	-2,0%	998,916	998,722	1000,994	767.709,748	8.186.540,963	998,652	-2,0%	3,50	998,612	-2,0%	5,50
1045+0.000	-7,70	-2,0%	998,688	-9,70	-2,0%	998,728	998,534	1004,910	767.727,807	8.186.532,367	998,464	-2,0%	3,50	998,424	-2,0%	5,50
1046+0.000	-7,70	-2,0%	998,281	-9,70	-2,0%	998,321	998,127	1005,190	767.745,865	8.186.523,772	998,057	-2,0%	3,50	998,017	-2,0%	5,50
1047+0.000	-7,70	-2,0%	997,654	-9,70	-2,0%	997,694	997,500	1001,252	767.763,924	8.186.515,176	997,430	-2,0%	3,50	997,390	-2,0%	5,50
1048+0.000	-7,70	-2,0%	996,887	-9,70	-2,0%	996,927	996,733	997,611	767.781,983	8.186.506,580	996,663	-2,0%	3,50	996,623	-2,0%	5,50
1049+0.000	-7,70	-2,0%	996,117	-9,70	-2,0%	996,157	995,963	993,519	767.800,041	8.186.497,984	995,893	-2,0%	3,50	995,853	-2,0%	5,50
1050+0.000	-7,70	-2,0%	995,347	-9,70	-2,0%	995,387	995,193	991,306	767.818,100	8.186.489,389	995,123	-2,0%	3,50	995,083	-2,0%	5,50
1051+0.000	-7,70	-2,0%	994,577	-9,70	-2,0%	994,617	994,423	990,028	767.836,159	8.186.480,793	994,353	-2,0%	3,50	994,313	-2,0%	5,50
1052+0.000	-7,70	-2,0%	993,807	-9,70	-2,0%	993,847	993,653	989,324	767.854,217	8.186.472,197	993,583	-2,0%	3,50	993,543	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

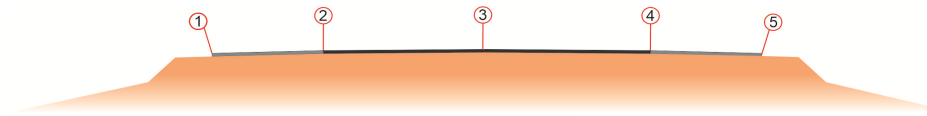
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1053+0.000	-7,70	-2,0%	993,037	-9,70	-2,0%	993,077	992,883	989,069	767.872,276	8.186.463,602	992,813	-2,0%	3,50	992,773	-2,0%	5,50
1054+0.000	-7,70	-2,0%	992,267	-9,70	-2,0%	992,307	992,113	988,987	767.890,334	8.186.455,006	992,043	-2,0%	3,50	992,003	-2,0%	5,50
1055+0.000	-7,70	-2,0%	991,497	-9,70	-2,0%	991,537	991,343	989,212	767.908,393	8.186.446,410	991,273	-2,0%	3,50	991,233	-2,0%	5,50
1056+0.000	-7,70	-2,0%	990,786	-9,70	-2,0%	990,826	990,632	989,098	767.926,452	8.186.437,814	990,562	-2,0%	3,50	990,522	-2,0%	5,50
1057+0.000	-7,70	-2,0%	990,237	-9,70	-2,0%	990,277	990,083	988,328	767.944,510	8.186.429,219	990,013	-2,0%	3,50	989,973	-2,0%	5,50
1058+0.000	-7,70	-2,0%	989,851	-9,70	-2,0%	989,891	989,697	985,845	767.962,569	8.186.420,623	989,627	-2,0%	3,50	989,587	-2,0%	5,50
1059+0.000	-7,70	-2,0%	989,630	-9,70	-2,0%	989,670	989,476	984,223	767.980,627	8.186.412,027	989,407	-2,0%	3,50	989,368	-2,0%	5,50
1060+0.000	-7,76	-2,0%	989,573	-9,76	-2,0%	989,613	989,418	983,460	767.998,686	8.186.403,432	989,447	0,8%	3,50	989,464	0,8%	5,50
1061+0.000	-8,02	-3,6%	989,813	-10,02	-3,6%	989,886	989,523	983,296	768.016,821	8.186.394,999	989,650	3,6%	3,50	989,722	3,6%	5,50
1062+0.000	-8,30	-6,0%	990,291	-10,30	-6,0%	990,411	989,793	983,793	768.035,284	8.186.387,318	990,003	6,0%	3,50	990,123	6,0%	5,50
1063+0.000	-8,30	-6,0%	990,724	-10,30	-6,0%	990,844	990,226	984,915	768.054,224	8.186.380,906	990,436	6,0%	3,50	990,556	6,0%	5,50
1064+0.000	-8,30	-6,0%	991,322	-10,30	-6,0%	991,442	990,824	986,830	768.073,573	8.186.375,861	991,034	6,0%	3,50	991,154	6,0%	5,50
1065+0.000	-8,30	-6,0%	992,083	-10,30	-6,0%	992,203	991,585	988,341	768.093,232	8.186.372,210	991,795	6,0%	3,50	991,915	6,0%	5,50
1066+0.000	-8,30	-6,0%	993,007	-10,30	-6,0%	993,127	992,509	990,654	768.113,102	8.186.369,971	992,719	6,0%	3,50	992,839	6,0%	5,50
1067+0.000	-8,30	-6,0%	994,096	-10,30	-6,0%	994,216	993,598	992,512	768.133,082	8.186.369,156	993,808	6,0%	3,50	993,928	6,0%	5,50
1068+0.000	-8,30	-6,0%	995,290	-10,30	-6,0%	995,410	994,792	994,107	768.153,068	8.186.369,769	995,002	6,0%	3,50	995,122	6,0%	5,50
1069+0.000	-8,19	-5,2%	996,411	-10,19	-5,2%	996,515	995,987	995,504	768.172,960	8.186.371,804	996,168	5,2%	3,50	996,272	5,2%	5,50
1070+0.000	-7,95	-2,4%	997,373	-9,95	-2,4%	997,421	997,183	997,279	768.192,701	8.186.375,005	997,267	2,4%	3,50	997,314	2,4%	5,50
1071+0.000	-7,70	-2,0%	998,532	-9,70	-2,0%	998,572	998,378	999,547	768.212,355	8.186.378,705	998,364	-0,4%	3,50	998,355	-0,4%	5,50
1072+0.000	-7,70	-2,0%	999,728	-9,70	-2,0%	999,768	999,574	1002,611	768.232,002	8.186.382,446	999,504	-2,0%	3,50	999,464	-2,0%	5,50
1073+0.000	-7,70	-2,0%	1000,923	-9,70	-2,0%	1000,963	1000,769	1006,062	768.251,649	8.186.386,186	1000,699	-2,0%	3,50	1000,659	-2,0%	5,50
1074+0.000	-7,70	-2,0%	1002,118	-9,70	-2,0%	1002,158	1001,964	1007,894	768.271,296	8.186.389,927	1001,894	-2,0%	3,50	1001,854	-2,0%	5,50
1075+0.000	-7,70	-2,0%	1003,314	-9,70	-2,0%	1003,354	1003,160	1007,890	768.290,943	8.186.393,668	1003,090	-2,0%	3,50	1003,050	-2,0%	5,50
1076+0.000	-7,70	-2,0%	1004,509	-9,70	-2,0%	1004,549	1004,355	1008,117	768.310,591	8.186.397,409	1004,285	-2,0%	3,50	1004,245	-2,0%	5,50
1077+0.000	-7,70	-2,0%	1005,705	-9,70	-2,0%	1005,745	1005,551	1008,505	768.330,238	8.186.401,150	1005,481	-2,0%	3,50	1005,441	-2,0%	5,50
1078+0.000	-7,70	-2,0%	1006,900	-9,70	-2,0%	1006,940	1006,746	1008,893	768.349,885	8.186.404,890	1006,676	-2,0%	3,50	1006,636	-2,0%	5,50
1079+0.000	-7,70	-2,0%	1008,096	-9,70	-2,0%	1008,136	1007,942	1009,162	768.369,532	8.186.408,631	1007,872	-2,0%	3,50	1007,832	-2,0%	5,50
1080+0.000	-7,70	-2,0%	1009,291	-9,70	-2,0%	1009,331	1009,137	1009,622	768.389,179	8.186.412,372	1009,067	-2,0%	3,50	1009,027	-2,0%	5,50
1081+0.000	-7,70	-2,0%	1010,414	-9,70	-2,0%	1010,454	1010,260	1009,936	768.408,826	8.186.416,113	1010,190	-2,0%	3,50	1010,150	-2,0%	5,50
1082+0.000	-7,70	-2,0%	1011,400	-9,70	-2,0%	1011,440	1011,246	1010,786	768.428,473	8.186.419,853	1011,176	-2,0%	3,50	1011,136	-2,0%	5,50
1083+0.000	-7,70	-2,0%	1012,250	-9,70	-2,0%	1012,290	1012,096	1011,224	768.448,120	8.186.423,594	1012,026	-2,0%	3,50	1011,986	-2,0%	5,50
1084+0.000	-7,70	-2,0%	1012,963	-9,70	-2,0%	1013,003	1012,809	1011,951	768.467,767	8.186.427,335	1012,739	-2,0%	3,50	1012,699	-2,0%	5,50
1085+0.000	-7,70	-2,0%	1013,540	-9,70	-2,0%	1013,580	1013,386	1012,787	768.487,414	8.186.431,076	1013,316	-2,0%	3,50	1013,276	-2,0%	5,50
1086+0.000	-7,70	-2,0%	1013,980	-9,70	-2,0%	1014,020	1013,826	1013,456	768.507,061	8.186.434,816	1013,756	-2,0%	3,50	1013,716	-2,0%	5,50
1087+0.000	-7,70	-2,0%	1014,283	-9,70	-2,0%	1014,323	1014,129	1013,976	768.526,708	8.186.438,557	1014,059	-2,0%	3,50	1014,019	-2,0%	5,50
1088+0.000	-7,70	-2,0%	1014,450	-9,70	-2,0%	1014,490	1014,296	1014,566	768.546,355	8.186.442,298	1014,226	-2,0%	3,50	1014,186	-2,0%	5,50
1089+0.000	-7,70	-2,0%	1014,553	-9,70	-2,0%	1014,593	1014,399	1014,855	768.566,002	8.186.446,039	1014,329	-2,0%	3,50	1014,289	-2,0%	5,50
1090+0.000	-7,70	-2,0%	1014,656	-9,70	-2,0%	1014,696	1014,502	1014,714	768.585,648	8.186.449,784	1014,505	0,1%	3,50	1014,506	0,1%	5,50
1091+0.000	-7,70	-2,8%	1014,823	-9,70	-2,8%	1014,880	1014,605	1014,409	768.605,265	8.186.453,680	1014,704	2,8%	3,50	1014,761	2,8%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

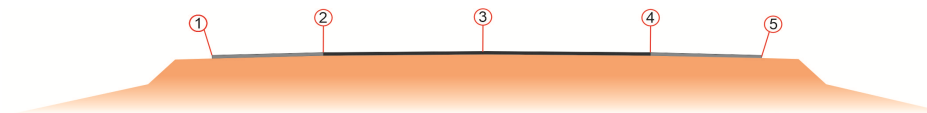
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1092+0.000	-7,70	-4,4%	1015,046	-9,70	-4,4%	1015,134	1014,707	1013,628	768.624,784	8.186.458,037	1014,861	4,4%	3,50	1014,949	4,4%	5,50
1093+0.000	-7,70	-4,4%	1015,149	-9,70	-4,4%	1015,237	1014,810	1014,560	768.644,149	8.186.463,032	1014,964	4,4%	3,50	1015,052	4,4%	5,50
1094+0.000	-7,70	-4,4%	1015,252	-9,70	-4,4%	1015,340	1014,913	1014,891	768.663,337	8.186.468,670	1015,067	4,4%	3,50	1015,155	4,4%	5,50
1095+0.000	-7,70	-4,4%	1015,355	-9,70	-4,4%	1015,443	1015,016	1014,582	768.682,326	8.186.474,945	1015,170	4,4%	3,50	1015,258	4,4%	5,50
1096+0.000	-7,70	-4,4%	1015,458	-9,70	-4,4%	1015,546	1015,119	1014,100	768.701,096	8.186.481,849	1015,273	4,4%	3,50	1015,361	4,4%	5,50
1097+0.000	-7,70	-4,4%	1015,561	-9,70	-4,4%	1015,649	1015,222	1013,789	768.719,625	8.186.489,374	1015,376	4,4%	3,50	1015,464	4,4%	5,50
1098+0.000	-7,70	-4,4%	1015,663	-9,70	-4,4%	1015,751	1015,324	1013,606	768.737,893	8.186.497,513	1015,478	4,4%	3,50	1015,566	4,4%	5,50
1099+0.000	-7,70	-4,4%	1015,766	-9,70	-4,4%	1015,854	1015,427	1013,410	768.755,880	8.186.506,256	1015,581	4,4%	3,50	1015,669	4,4%	5,50
1100+0.000	-7,70	-3,1%	1015,770	-9,70	-3,1%	1015,833	1015,530	1013,309	768.773,568	8.186.515,589	1015,639	3,1%	3,50	1015,702	3,1%	5,50
1101+0.000	-7,70	-2,0%	1015,787	-9,70	-2,0%	1015,827	1015,633	1013,733	768.791,016	8.186.525,364	1015,646	0,4%	3,50	1015,653	0,4%	5,50
1102+0.000	-7,70	-2,0%	1015,890	-9,70	-2,0%	1015,930	1015,736	1014,112	768.808,374	8.186.535,298	1015,666	-2,0%	3,50	1015,626	-2,0%	5,50
1103+0.000	-7,70	-2,0%	1015,993	-9,70	-2,0%	1016,033	1015,839	1014,296	768.825,728	8.186.545,241	1015,769	-2,0%	3,50	1015,729	-2,0%	5,50
1104+0.000	-7,70	-2,0%	1016,095	-9,70	-2,0%	1016,135	1015,941	1014,605	768.843,082	8.186.555,183	1015,871	-2,0%	3,50	1015,831	-2,0%	5,50
1105+0.000	-7,70	-2,0%	1016,198	-9,70	-2,0%	1016,238	1016,044	1014,860	768.860,435	8.186.565,125	1015,974	-2,0%	3,50	1015,934	-2,0%	5,50
1106+0.000	-7,70	-2,0%	1016,301	-9,70	-2,0%	1016,341	1016,147	1015,195	768.877,789	8.186.575,067	1016,077	-2,0%	3,50	1016,037	-2,0%	5,50
1107+0.000	-7,70	-2,0%	1016,404	-9,70	-2,0%	1016,444	1016,250	1015,466	768.895,143	8.186.585,009	1016,180	-2,0%	3,50	1016,140	-2,0%	5,50
1108+0.000	-7,70	-2,0%	1016,507	-9,70	-2,0%	1016,547	1016,353	1015,735	768.912,497	8.186.594,951	1016,283	-2,0%	3,50	1016,243	-2,0%	5,50
1109+0.000	-7,70	-2,0%	1016,610	-9,70	-2,0%	1016,650	1016,456	1015,930	768.929,850	8.186.604,894	1016,386	-2,0%	3,50	1016,346	-2,0%	5,50
1110+0.000	-7,70	-2,0%	1016,712	-9,70	-2,0%	1016,752	1016,558	1016,000	768.947,204	8.186.614,836	1016,488	-2,0%	3,50	1016,448	-2,0%	5,50
1111+0.000	-7,70	-2,0%	1016,815	-9,70	-2,0%	1016,855	1016,661	1015,973	768.964,558	8.186.624,778	1016,591	-2,0%	3,50	1016,551	-2,0%	5,50
1112+0.000	-7,70	-2,0%	1016,918	-9,70	-2,0%	1016,958	1016,764	1015,874	768.981,912	8.186.634,720	1016,694	-2,0%	3,50	1016,654	-2,0%	5,50
1113+0.000	-7,70	-2,0%	1017,021	-9,70	-2,0%	1017,061	1016,867	1015,796	768.999,266	8.186.644,662	1016,797	-2,0%	3,50	1016,757	-2,0%	5,50
1114+0.000	-7,70	-2,0%	1017,122	-9,70	-2,0%	1017,162	1016,968	1015,795	769.016,619	8.186.654,605	1016,898	-2,0%	3,50	1016,858	-2,0%	5,50
1115+0.000	-7,70	-2,0%	1017,186	-9,70	-2,0%	1017,226	1017,032	1015,695	769.033,973	8.186.664,547	1016,962	-2,0%	3,50	1016,922	-2,0%	5,50
1116+0.000	-7,70	-2,0%	1017,198	-9,70	-2,0%	1017,238	1017,044	1015,484	769.051,327	8.186.674,489	1016,974	-2,0%	3,50	1016,934	-2,0%	5,50
1117+0.000	-7,70	-2,0%	1017,159	-9,70	-2,0%	1017,199	1017,005	1015,115	769.068,681	8.186.684,431	1016,935	-2,0%	3,50	1016,895	-2,0%	5,50
1118+0.000	-7,70	-2,0%	1017,070	-9,70	-2,0%	1017,110	1016,916	1014,290	769.086,034	8.186.694,373	1016,846	-2,0%	3,50	1016,806	-2,0%	5,50
1119+0.000	-7,70	-2,0%	1016,967	-9,70	-2,0%	1017,007	1016,813	1011,162	769.103,388	8.186.704,315	1016,743	-2,0%	3,50	1016,703	-2,0%	5,50
1120+0.000	-7,70	-2,0%	1016,865	-9,70	-2,0%	1016,905	1016,711	1010,687	769.120,742	8.186.714,258	1016,641	-2,0%	3,50	1016,601	-2,0%	5,50
1121+0.000	-7,70	-2,0%	1016,762	-9,70	-2,0%	1016,802	1016,608	1011,594	769.138,096	8.186.724,200	1016,538	-2,0%	3,50	1016,498	-2,0%	5,50
1122+0.000	-7,70	-2,0%	1016,659	-9,70	-2,0%	1016,699	1016,505	1014,070	769.155,449	8.186.734,142	1016,435	-2,0%	3,50	1016,395	-2,0%	5,50
1123+0.000	-7,70	-2,0%	1016,556	-9,70	-2,0%	1016,596	1016,402	1014,838	769.172,803	8.186.744,084	1016,332	-2,0%	3,50	1016,292	-2,0%	5,50
1124+0.000	-7,70	-2,0%	1016,466	-9,70	-2,0%	1016,506	1016,312	1014,976	769.190,157	8.186.754,026	1016,242	-2,0%	3,50	1016,202	-2,0%	5,50
1125+0.000	-7,70	-2,0%	1016,480	-9,70	-2,0%	1016,520	1016,326	1014,981	769.207,511	8.186.763,968	1016,256	-2,0%	3,50	1016,216	-2,0%	5,50
1126+0.000	-7,70	-2,0%	1016,619	-9,70	-2,0%	1016,659	1016,465	1014,507	769.224,864	8.186.773,911	1016,395	-2,0%	3,50	1016,355	-2,0%	5,50
1127+0.000	-7,70	-2,0%	1016,883	-9,70	-2,0%	1016,923	1016,729	1014,332	769.242,218	8.186.783,853	1016,659	-2,0%	3,50	1016,619	-2,0%	5,50
1128+0.000	-7,70	-2,0%	1017,260	-9,70	-2,0%	1017,300	1017,106	1013,145	769.259,572	8.186.793,795	1017,036	-2,0%	3,50	1016,996	-2,0%	5,50
1129+0.000	-7,70	-2,0%	1017,656	-9,70	-2,0%	1017,696	1017,502	1013,275	769.276,926	8.186.803,737	1017,432	-2,0%	3,50	1017,392	-2,0%	5,50
1130+0.000	-7,70	-2,0%	1018,053	-9,70	-2,0%	1018,093	1017,899	1014,078	769.294,279	8.186.813,679	1017,829	-2,0%	3,50	1017,789	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

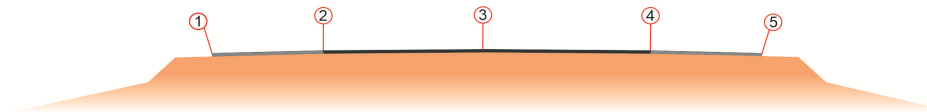
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1131+0.000	-7,70	-2,0%	1018,450	-9,70	-2,0%	1018,490	1018,296	1014,733	769.311,633	8.186.823,622	1018,226	-2,0%	3,50	1018,186	-2,0%	5,50
1132+0.000	-7,70	-2,0%	1018,847	-9,70	-2,0%	1018,887	1018,693	1015,710	769.328,987	8.186.833,564	1018,623	-2,0%	3,50	1018,583	-2,0%	5,50
1133+0.000	-7,70	-2,0%	1019,243	-9,70	-2,0%	1019,283	1019,089	1016,457	769.346,341	8.186.843,506	1019,019	-2,0%	3,50	1018,979	-2,0%	5,50
1134+0.000	-7,70	-2,0%	1019,640	-9,70	-2,0%	1019,680	1019,486	1017,131	769.363,695	8.186.853,448	1019,416	-2,0%	3,50	1019,376	-2,0%	5,50
1135+0.000	-7,70	-2,0%	1020,037	-9,70	-2,0%	1020,077	1019,883	1017,671	769.381,048	8.186.863,390	1019,813	-2,0%	3,50	1019,773	-2,0%	5,50
1136+0.000	-7,70	-2,0%	1020,434	-9,70	-2,0%	1020,474	1020,280	1018,248	769.398,402	8.186.873,332	1020,210	-2,0%	3,50	1020,170	-2,0%	5,50
1137+0.000	-7,70	-2,0%	1020,830	-9,70	-2,0%	1020,870	1020,676	1018,854	769.415,756	8.186.883,275	1020,606	-2,0%	3,50	1020,566	-2,0%	5,50
1138+0.000	-7,70	-2,0%	1021,227	-9,70	-2,0%	1021,267	1021,073	1019,523	769.433,110	8.186.893,217	1021,003	-2,0%	3,50	1020,963	-2,0%	5,50
1139+0.000	-7,70	-2,0%	1021,624	-9,70	-2,0%	1021,664	1021,470	1019,910	769.450,463	8.186.903,159	1021,400	-2,0%	3,50	1021,360	-2,0%	5,50
1140+0.000	-7,70	-2,0%	1022,021	-9,70	-2,0%	1022,061	1021,867	1020,418	769.467,817	8.186.913,101	1021,797	-2,0%	3,50	1021,757	-2,0%	5,50
1141+0.000	-7,70	-2,0%	1022,417	-9,70	-2,0%	1022,457	1022,263	1020,923	769.485,171	8.186.923,043	1022,193	-2,0%	3,50	1022,153	-2,0%	5,50
1142+0.000	-7,70	-2,0%	1022,814	-9,70	-2,0%	1022,854	1022,660	1021,366	769.502,525	8.186.932,985	1022,590	-2,0%	3,50	1022,550	-2,0%	5,50
1143+0.000	-7,70	-2,0%	1023,211	-9,70	-2,0%	1023,251	1023,057	1021,805	769.519,878	8.186.942,928	1022,987	-2,0%	3,50	1022,947	-2,0%	5,50
1144+0.000	-7,70	-2,0%	1023,608	-9,70	-2,0%	1023,648	1023,454	1022,285	769.537,232	8.186.952,870	1023,384	-2,0%	3,50	1023,344	-2,0%	5,50
1145+0.000	-7,70	-2,0%	1024,004	-9,70	-2,0%	1024,044	1023,850	1022,723	769.554,586	8.186.962,812	1023,780	-2,0%	3,50	1023,740	-2,0%	5,50
1146+0.000	-7,70	-2,0%	1024,401	-9,70	-2,0%	1024,441	1024,247	1023,160	769.571,940	8.186.972,754	1024,177	-2,0%	3,50	1024,137	-2,0%	5,50
1147+0.000	-7,70	-2,0%	1024,798	-9,70	-2,0%	1024,838	1024,644	1023,586	769.589,293	8.186.982,696	1024,574	-2,0%	3,50	1024,534	-2,0%	5,50
1148+0.000	-7,70	-2,0%	1025,195	-9,70	-2,0%	1025,235	1025,041	1023,961	769.606,647	8.186.992,638	1024,971	-2,0%	3,50	1024,931	-2,0%	5,50
1149+0.000	-7,70	-2,0%	1025,591	-9,70	-2,0%	1025,631	1025,437	1024,351	769.624,001	8.187.002,581	1025,367	-2,0%	3,50	1025,327	-2,0%	5,50
1150+0.000	-7,70	-1,2%	1025,929	-9,70	-1,2%	1025,953	1025,834	1024,706	769.641,355	8.187.012,523	1025,764	-2,0%	3,50	1025,724	-2,0%	5,50
1151+0.000	-7,70	1,6%	1026,110	-9,70	1,6%	1026,079	1026,231	1025,158	769.658,709	8.187.022,465	1026,161	-2,0%	3,50	1026,121	-2,0%	5,50
1152+0.000	-7,70	4,2%	1026,305	-9,70	4,2%	1026,221	1026,628	1025,248	769.676,199	8.187.032,162	1026,481	-4,2%	3,50	1026,397	-4,2%	5,50
1153+0.000	-7,70	4,2%	1026,701	-9,70	4,2%	1026,617	1027,024	1025,707	769.693,976	8.187.041,326	1026,877	-4,2%	3,50	1026,793	-4,2%	5,50
1154+0.000	-7,70	4,2%	1027,098	-9,70	4,2%	1027,014	1027,421	1026,071	769.712,022	8.187.049,946	1027,274	-4,2%	3,50	1027,190	-4,2%	5,50
1155+0.000	-7,70	4,2%	1027,495	-9,70	4,2%	1027,411	1027,818	1026,312	769.730,321	8.187.058,016	1027,671	-4,2%	3,50	1027,587	-4,2%	5,50
1156+0.000	-7,70	4,2%	1027,892	-9,70	4,2%	1027,808	1028,215	1026,612	769.748,856	8.187.065,528	1028,068	-4,2%	3,50	1027,984	-4,2%	5,50
1157+0.000	-7,70	4,2%	1028,288	-9,70	4,2%	1028,204	1028,611	1026,827	769.767,610	8.187.072,474	1028,464	-4,2%	3,50	1028,380	-4,2%	5,50
1158+0.000	-7,70	4,2%	1028,669	-9,70	4,2%	1028,585	1028,992	1027,124	769.786,566	8.187.078,849	1028,845	-4,2%	3,50	1028,761	-4,2%	5,50
1159+0.000	-7,70	4,2%	1029,004	-9,70	4,2%	1028,920	1029,327	1027,358	769.805,706	8.187.084,647	1029,180	-4,2%	3,50	1029,096	-4,2%	5,50
1160+0.000	-7,70	4,2%	1029,294	-9,70	4,2%	1029,210	1029,617	1027,524	769.825,013	8.187.089,863	1029,470	-4,2%	3,50	1029,386	-4,2%	5,50
1161+0.000	-7,70	4,2%	1029,537	-9,70	4,2%	1029,453	1029,860	1027,782	769.844,470	8.187.094,491	1029,713	-4,2%	3,50	1029,629	-4,2%	5,50
1162+0.000	-7,70	4,2%	1029,735	-9,70	4,2%	1029,651	1030,058	1027,861	769.864,057	8.187.098,527	1029,911	-4,2%	3,50	1029,827	-4,2%	5,50
1163+0.000	-7,70	4,2%	1029,887	-9,70	4,2%	1029,803	1030,210	1028,046	769.883,758	8.187.101,968	1030,063	-4,2%	3,50	1029,979	-4,2%	5,50
1164+0.000	-7,70	4,2%	1029,992	-9,70	4,2%	1029,908	1030,315	1028,169	769.903,554	8.187.104,811	1030,168	-4,2%	3,50	1030,084	-4,2%	5,50
1165+0.000	-7,70	4,2%	1030,052	-9,70	4,2%	1029,968	1030,375	1028,226	769.923,428	8.187.107,052	1030,228	-4,2%	3,50	1030,144	-4,2%	5,50
1166+0.000	-7,70	4,2%	1030,067	-9,70	4,2%	1029,983	1030,390	1028,311	769.943,360	8.187.108,690	1030,243	-4,2%	3,50	1030,159	-4,2%	5,50
1167+0.000	-7,70	4,2%	1030,035	-9,70	4,2%	1029,951	1030,358	1028,370	769.963,332	8.187.109,724	1030,211	-4,2%	3,50	1030,127	-4,2%	5,50
1168+0.000	-7,70	4,2%	1029,957	-9,70	4,2%	1029,873	1030,280	1028,291	769.983,327	8.187.110,152	1030,133	-4,2%	3,50	1030,049	-4,2%	5,50
1169+0.000	-7,70	4,2%	1029,834	-9,70	4,2%	1029,750	1030,157	1028,288	770.003,325	8.187.109,974	1030,010	-4,2%	3,50	1029,926	-4,2%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

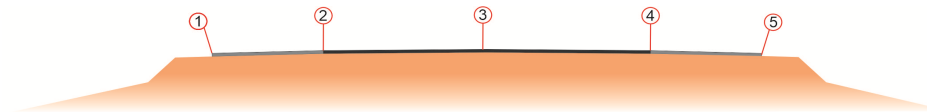
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1170+0.000	-7,70	4,2%	1029,665	-9,70	4,2%	1029,581	1029,988	1028,264	770.023,309	8.187.109,190	1029,841	-4,2%	3,50	1029,757	-4,2%	5,50
1171+0.000	-7,70	4,2%	1029,449	-9,70	4,2%	1029,365	1029,772	1028,171	770.043,260	8.187.107,801	1029,625	-4,2%	3,50	1029,541	-4,2%	5,50
1172+0.000	-7,70	4,2%	1029,188	-9,70	4,2%	1029,104	1029,511	1027,963	770.063,160	8.187.105,809	1029,364	-4,2%	3,50	1029,280	-4,2%	5,50
1173+0.000	-7,70	4,2%	1028,898	-9,70	4,2%	1028,814	1029,221	1027,863	770.082,990	8.187.103,214	1029,074	-4,2%	3,50	1028,990	-4,2%	5,50
1174+0.000	-7,70	4,2%	1028,606	-9,70	4,2%	1028,522	1028,929	1027,688	770.102,732	8.187.100,020	1028,782	-4,2%	3,50	1028,698	-4,2%	5,50
1175+0.000	-7,70	4,2%	1028,315	-9,70	4,2%	1028,231	1028,638	1027,492	770.122,369	8.187.096,228	1028,491	-4,2%	3,50	1028,407	-4,2%	5,50
1176+0.000	-7,70	4,2%	1028,024	-9,70	4,2%	1027,940	1028,347	1027,248	770.141,882	8.187.091,844	1028,200	-4,2%	3,50	1028,116	-4,2%	5,50
1177+0.000	-7,70	1,9%	1027,911	-9,70	1,9%	1027,874	1028,055	1026,960	770.161,253	8.187.086,871	1027,985	-2,0%	3,50	1027,945	-2,0%	5,50
1178+0.000	-7,70	-0,9%	1027,836	-9,70	-0,9%	1027,854	1027,764	1026,577	770.180,537	8.187.081,566	1027,694	-2,0%	3,50	1027,654	-2,0%	5,50
1179+0.000	-7,70	-2,0%	1027,627	-9,70	-2,0%	1027,667	1027,473	1026,265	770.199,820	8.187.076,261	1027,403	-2,0%	3,50	1027,363	-2,0%	5,50
1180+0.000	-7,70	-2,0%	1027,335	-9,70	-2,0%	1027,375	1027,181	1025,921	770.219,103	8.187.070,955	1027,111	-2,0%	3,50	1027,071	-2,0%	5,50
1181+0.000	-7,70	-2,0%	1027,044	-9,70	-2,0%	1027,084	1026,890	1025,613	770.238,387	8.187.065,650	1026,820	-2,0%	3,50	1026,780	-2,0%	5,50
1182+0.000	-7,70	-2,0%	1026,753	-9,70	-2,0%	1026,793	1026,599	1025,209	770.257,670	8.187.060,344	1026,529	-2,0%	3,50	1026,489	-2,0%	5,50
1183+0.000	-7,70	-2,0%	1026,461	-9,70	-2,0%	1026,501	1026,307	1024,894	770.276,954	8.187.055,039	1026,237	-2,0%	3,50	1026,197	-2,0%	5,50
1184+0.000	-7,70	-2,0%	1026,170	-9,70	-2,0%	1026,210	1026,016	1024,402	770.296,237	8.187.049,733	1025,946	-2,0%	3,50	1025,906	-2,0%	5,50
1185+0.000	-7,70	-2,0%	1025,879	-9,70	-2,0%	1025,919	1025,725	1024,049	770.315,521	8.187.044,428	1025,655	-2,0%	3,50	1025,615	-2,0%	5,50
1186+0.000	-7,70	-2,0%	1025,587	-9,70	-2,0%	1025,627	1025,433	1023,819	770.334,804	8.187.039,122	1025,363	-2,0%	3,50	1025,323	-2,0%	5,50
1187+0.000	-7,70	-2,0%	1025,300	-9,70	-2,0%	1025,340	1025,146	1023,489	770.354,088	8.187.033,816	1025,076	-2,0%	3,50	1025,036	-2,0%	5,50
1188+0.000	-7,70	-2,0%	1025,058	-9,70	-2,0%	1025,098	1024,904	1023,302	770.373,371	8.187.028,511	1024,834	-2,0%	3,50	1024,794	-2,0%	5,50
1189+0.000	-7,70	-2,0%	1024,875	-9,70	-2,0%	1024,915	1024,721	1023,167	770.392,654	8.187.023,205	1024,651	-2,0%	3,50	1024,611	-2,0%	5,50
1190+0.000	-7,70	-2,0%	1024,746	-9,70	-2,0%	1024,786	1024,592	1023,046	770.411,938	8.187.017,900	1024,522	-2,0%	3,50	1024,482	-2,0%	5,50
1191+0.000	-7,70	-2,0%	1024,629	-9,70	-2,0%	1024,669	1024,475	1023,145	770.431,221	8.187.012,594	1024,405	-2,0%	3,50	1024,365	-2,0%	5,50
1192+0.000	-7,70	-2,0%	1024,511	-9,70	-2,0%	1024,551	1024,357	1023,240	770.450,505	8.187.007,289	1024,287	-2,0%	3,50	1024,247	-2,0%	5,50
1193+0.000	-7,70	-2,0%	1024,394	-9,70	-2,0%	1024,434	1024,240	1023,262	770.469,788	8.187.001,983	1024,170	-2,0%	3,50	1024,130	-2,0%	5,50
1194+0.000	-7,70	-2,0%	1024,277	-9,70	-2,0%	1024,317	1024,123	1023,532	770.489,072	8.186.996,678	1024,053	-2,0%	3,50	1024,013	-2,0%	5,50
1195+0.000	-7,70	-2,0%	1024,160	-9,70	-2,0%	1024,200	1024,006	1023,440	770.508,355	8.186.991,372	1023,936	-2,0%	3,50	1023,896	-2,0%	5,50
1196+0.000	-7,70	-2,0%	1024,043	-9,70	-2,0%	1024,083	1023,889	1023,413	770.527,639	8.186.986,067	1023,819	-2,0%	3,50	1023,779	-2,0%	5,50
1197+0.000	-7,70	-2,0%	1023,926	-9,70	-2,0%	1023,966	1023,772	1023,281	770.546,922	8.186.980,761	1023,702	-2,0%	3,50	1023,662	-2,0%	5,50
1198+0.000	-7,70	-2,0%	1023,809	-9,70	-2,0%	1023,849	1023,655	1022,986	770.566,205	8.186.975,455	1023,585	-2,0%	3,50	1023,545	-2,0%	5,50
1199+0.000	-7,70	-2,0%	1023,692	-9,70	-2,0%	1023,732	1023,538	1022,721	770.585,489	8.186.970,150	1023,468	-2,0%	3,50	1023,428	-2,0%	5,50
1200+0.000	-7,70	-2,0%	1023,575	-9,70	-2,0%	1023,615	1023,421	1022,455	770.604,772	8.186.964,844	1023,351	-2,0%	3,50	1023,311	-2,0%	5,50
1201+0.000	-7,70	-2,0%	1023,458	-9,70	-2,0%	1023,498	1023,304	1022,150	770.624,056	8.186.959,539	1023,234	-2,0%	3,50	1023,194	-2,0%	5,50
1202+0.000	-7,70	-2,0%	1023,341	-9,70	-2,0%	1023,381	1023,187	1021,845	770.643,339	8.186.954,233	1023,117	-2,0%	3,50	1023,077	-2,0%	5,50
1203+0.000	-7,70	-2,0%	1023,224	-9,70	-2,0%	1023,264	1023,070	1021,755	770.662,623	8.186.948,928	1023,000	-2,0%	3,50	1022,960	-2,0%	5,50
1204+0.000	-7,70	-2,0%	1023,107	-9,70	-2,0%	1023,147	1022,953	1022,055	770.681,906	8.186.943,622	1022,883	-2,0%	3,50	1022,843	-2,0%	5,50
1205+0.000	-7,70	-2,0%	1022,990	-9,70	-2,0%	1023,030	1022,836	1021,101	770.701,190	8.186.938,317	1022,766	-2,0%	3,50	1022,726	-2,0%	5,50
1206+0.000	-7,70	-2,0%	1022,873	-9,70	-2,0%	1022,913	1022,719	1021,317	770.720,473	8.186.933,011	1022,649	-2,0%	3,50	1022,609	-2,0%	5,50
1207+0.000	-7,70	-2,0%	1022,756	-9,70	-2,0%	1022,796	1022,602	1021,150	770.739,756	8.186.927,706	1022,532	-2,0%	3,50	1022,492	-2,0%	5,50
1208+0.000	-7,70	-2,0%	1022,638	-9,70	-2,0%	1022,678	1022,484	1021,174	770.759,040	8.186.922,400	1022,414	-2,0%	3,50	1022,374	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

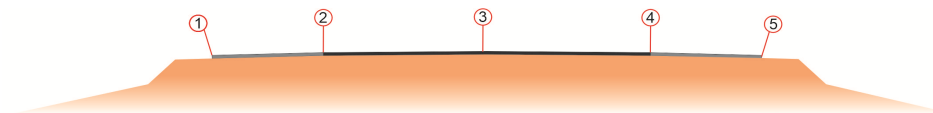
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1209+0.000	-7,70	-2,0%	1022,521	-9,70	-2,0%	1022,561	1022,367	1021,109	770.778,323	8.186.917,094	1022,297	-2,0%	3,50	1022,257	-2,0%	5,50
1210+0.000	-7,70	-2,0%	1022,404	-9,70	-2,0%	1022,444	1022,250	1021,082	770.797,607	8.186.911,789	1022,180	-2,0%	3,50	1022,140	-2,0%	5,50
1211+0.000	-7,70	-2,0%	1022,287	-9,70	-2,0%	1022,327	1022,133	1021,024	770.816,888	8.186.906,475	1022,063	-2,0%	3,50	1022,023	-2,0%	5,50
1212+0.000	-7,70	-2,0%	1022,170	-9,70	-2,0%	1022,210	1022,016	1020,957	770.836,150	8.186.901,094	1021,946	-2,0%	3,50	1021,906	-2,0%	5,50
1213+0.000	-7,70	-2,0%	1022,053	-9,70	-2,0%	1022,093	1021,899	1020,821	770.855,391	8.186.895,636	1021,829	-2,0%	3,50	1021,789	-2,0%	5,50
1214+0.000	-7,70	-2,0%	1021,936	-9,70	-2,0%	1021,976	1021,782	1020,743	770.874,613	8.186.890,112	1021,712	-2,0%	3,50	1021,672	-2,0%	5,50
1215+0.000	-7,70	-2,0%	1021,819	-9,70	-2,0%	1021,859	1021,665	1020,637	770.893,832	8.186.884,577	1021,595	-2,0%	3,50	1021,555	-2,0%	5,50
1216+0.000	-7,70	-2,0%	1021,702	-9,70	-2,0%	1021,742	1021,548	1020,581	770.913,051	8.186.879,043	1021,478	-2,0%	3,50	1021,438	-2,0%	5,50
1217+0.000	-7,70	-2,0%	1021,585	-9,70	-2,0%	1021,625	1021,431	1020,457	770.932,270	8.186.873,509	1021,361	-2,0%	3,50	1021,321	-2,0%	5,50
1218+0.000	-7,70	-2,0%	1021,468	-9,70	-2,0%	1021,508	1021,314	1020,329	770.951,489	8.186.867,975	1021,244	-2,0%	3,50	1021,204	-2,0%	5,50
1219+0.000	-7,70	-2,0%	1021,351	-9,70	-2,0%	1021,391	1021,197	1020,136	770.970,709	8.186.862,441	1021,127	-2,0%	3,50	1021,087	-2,0%	5,50
1220+0.000	-7,70	-2,0%	1021,268	-9,70	-2,0%	1021,308	1021,114	1020,044	770.989,928	8.186.856,907	1021,044	-2,0%	3,50	1021,004	-2,0%	5,50
1221+0.000	-7,70	-2,0%	1021,271	-9,70	-2,0%	1021,311	1021,117	1019,860	771.009,147	8.186.851,373	1021,047	-2,0%	3,50	1021,007	-2,0%	5,50
1222+0.000	-7,70	-2,0%	1021,360	-9,70	-2,0%	1021,400	1021,206	1019,776	771.028,366	8.186.845,838	1021,136	-2,0%	3,50	1021,096	-2,0%	5,50
1223+0.000	-7,70	-2,0%	1021,502	-9,70	-2,0%	1021,542	1021,348	1019,589	771.047,585	8.186.840,304	1021,278	-2,0%	3,50	1021,238	-2,0%	5,50
1224+0.000	-7,70	-2,0%	1021,645	-9,70	-2,0%	1021,685	1021,491	1019,471	771.066,804	8.186.834,770	1021,421	-2,0%	3,50	1021,381	-2,0%	5,50
1225+0.000	-7,70	-2,0%	1021,787	-9,70	-2,0%	1021,827	1021,633	1019,297	771.086,023	8.186.829,236	1021,563	-2,0%	3,50	1021,523	-2,0%	5,50
1226+0.000	-7,70	-2,0%	1021,929	-9,70	-2,0%	1021,969	1021,775	1019,195	771.105,242	8.186.823,702	1021,705	-2,0%	3,50	1021,665	-2,0%	5,50
1227+0.000	-7,70	-2,0%	1022,072	-9,70	-2,0%	1022,112	1021,918	1018,890	771.124,461	8.186.818,168	1021,848	-2,0%	3,50	1021,808	-2,0%	5,50
1228+0.000	-7,70	-2,0%	1022,196	-9,70	-2,0%	1022,236	1022,042	1019,069	771.143,680	8.186.812,634	1021,972	-2,0%	3,50	1021,932	-2,0%	5,50
1229+0.000	-7,70	-2,0%	1022,265	-9,70	-2,0%	1022,305	1022,111	1019,007	771.162,899	8.186.807,099	1022,041	-2,0%	3,50	1022,001	-2,0%	5,50
1230+0.000	-7,70	-2,0%	1022,277	-9,70	-2,0%	1022,317	1022,123	1018,979	771.182,118	8.186.801,565	1022,053	-2,0%	3,50	1022,013	-2,0%	5,50
1231+0.000	-7,70	-2,0%	1022,233	-9,70	-2,0%	1022,273	1022,079	1019,114	771.201,338	8.186.796,031	1022,009	-2,0%	3,50	1021,969	-2,0%	5,50
1232+0.000	-7,70	-2,0%	1022,132	-9,70	-2,0%	1022,172	1021,978	1019,055	771.220,557	8.186.790,497	1021,908	-2,0%	3,50	1021,868	-2,0%	5,50
1233+0.000	-7,70	-2,0%	1021,975	-9,70	-2,0%	1022,015	1021,821	1019,129	771.239,776	8.186.784,963	1021,751	-2,0%	3,50	1021,711	-2,0%	5,50
1234+0.000	-7,70	-2,0%	1021,779	-9,70	-2,0%	1021,819	1021,625	1019,299	771.258,995	8.186.779,429	1021,555	-2,0%	3,50	1021,515	-2,0%	5,50
1235+0.000	-7,70	-2,0%	1021,583	-9,70	-2,0%	1021,623	1021,429	1019,305	771.278,214	8.186.773,894	1021,359	-2,0%	3,50	1021,319	-2,0%	5,50
1236+0.000	-7,70	-2,0%	1021,386	-9,70	-2,0%	1021,426	1021,232	1019,521	771.297,433	8.186.768,360	1021,162	-2,0%	3,50	1021,122	-2,0%	5,50
1237+0.000	-7,70	-2,0%	1021,190	-9,70	-2,0%	1021,230	1021,036	1019,465	771.316,652	8.186.762,826	1020,966	-2,0%	3,50	1020,926	-2,0%	5,50
1238+0.000	-7,70	-2,0%	1020,993	-9,70	-2,0%	1021,033	1020,839	1019,686	771.335,871	8.186.757,292	1020,769	-2,0%	3,50	1020,729	-2,0%	5,50
1239+0.000	-7,70	-2,0%	1020,811	-9,70	-2,0%	1020,851	1020,657	1019,822	771.355,090	8.186.751,758	1020,587	-2,0%	3,50	1020,547	-2,0%	5,50
1240+0.000	-7,70	-2,0%	1020,737	-9,70	-2,0%	1020,777	1020,583	1019,892	771.374,309	8.186.746,224	1020,513	-2,0%	3,50	1020,473	-2,0%	5,50
1241+0.000	-7,70	-2,0%	1020,785	-9,70	-2,0%	1020,825	1020,631	1019,980	771.393,528	8.186.740,690	1020,561	-2,0%	3,50	1020,521	-2,0%	5,50
1242+0.000	-7,70	-2,0%	1020,941	-9,70	-2,0%	1020,981	1020,787	1020,137	771.412,747	8.186.735,155	1020,717	-2,0%	3,50	1020,677	-2,0%	5,50
1243+0.000	-7,70	-2,0%	1021,112	-9,70	-2,0%	1021,152	1020,958	1020,185	771.431,967	8.186.729,621	1020,888	-2,0%	3,50	1020,848	-2,0%	5,50
1244+0.000	-7,70	-2,0%	1021,283	-9,70	-2,0%	1021,323	1021,129	1020,384	771.451,186	8.186.724,087	1021,059	-2,0%	3,50	1021,019	-2,0%	5,50
1245+0.000	-7,70	-2,0%	1021,454	-9,70	-2,0%	1021,494	1021,300	1020,522	771.470,405	8.186.718,553	1021,230	-2,0%	3,50	1021,190	-2,0%	5,50
1246+0.000	-7,70	-2,0%	1021,625	-9,70	-2,0%	1021,665	1021,471	1020,608	771.489,624	8.186.713,019	1021,401	-2,0%	3,50	1021,361	-2,0%	5,50
1247+0.000	-7,70	-2,0%	1021,796	-9,70	-2,0%	1021,836	1021,642	1020,778	771.508,843	8.186.707,485	1021,572	-2,0%	3,50	1021,532	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

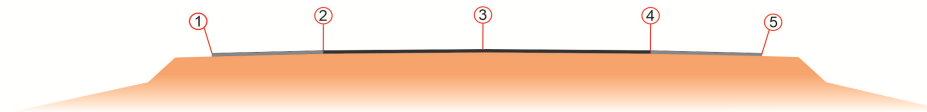
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1248+0.000	-7,70	-2,0%	1021,967	-9,70	-2,0%	1022,007	1021,813	1020,914	771.528,062	8.186.701,950	1021,743	-2,0%	3,50	1021,703	-2,0%	5,50
1249+0.000	-7,70	-2,0%	1022,138	-9,70	-2,0%	1022,178	1021,984	1021,006	771.547,281	8.186.696,416	1021,914	-2,0%	3,50	1021,874	-2,0%	5,50
1250+0.000	-7,70	-2,0%	1022,309	-9,70	-2,0%	1022,349	1022,155	1021,146	771.566,500	8.186.690,882	1022,085	-2,0%	3,50	1022,045	-2,0%	5,50
1251+0.000	-7,70	-2,0%	1022,480	-9,70	-2,0%	1022,520	1022,326	1021,231	771.585,719	8.186.685,348	1022,256	-2,0%	3,50	1022,216	-2,0%	5,50
1252+0.000	-7,70	-2,0%	1022,651	-9,70	-2,0%	1022,691	1022,497	1021,413	771.604,938	8.186.679,814	1022,427	-2,0%	3,50	1022,387	-2,0%	5,50
1253+0.000	-7,70	-2,0%	1022,822	-9,70	-2,0%	1022,862	1022,668	1021,628	771.624,157	8.186.674,280	1022,598	-2,0%	3,50	1022,558	-2,0%	5,50
1254+0.000	-7,70	-2,0%	1022,993	-9,70	-2,0%	1023,033	1022,839	1021,584	771.643,376	8.186.668,746	1022,769	-2,0%	3,50	1022,729	-2,0%	5,50
1255+0.000	-7,70	-2,0%	1023,164	-9,70	-2,0%	1023,204	1023,010	1021,861	771.662,596	8.186.663,211	1022,940	-2,0%	3,50	1022,900	-2,0%	5,50
1256+0.000	-7,70	-2,0%	1023,335	-9,70	-2,0%	1023,375	1023,181	1021,969	771.681,815	8.186.657,677	1023,111	-2,0%	3,50	1023,071	-2,0%	5,50
1257+0.000	-7,70	-2,0%	1023,506	-9,70	-2,0%	1023,546	1023,352	1022,102	771.701,034	8.186.652,143	1023,282	-2,0%	3,50	1023,242	-2,0%	5,50
1258+0.000	-7,70	-2,0%	1023,677	-9,70	-2,0%	1023,717	1023,523	1022,286	771.720,253	8.186.646,609	1023,453	-2,0%	3,50	1023,413	-2,0%	5,50
1259+0.000	-7,70	-2,0%	1023,849	-9,70	-2,0%	1023,889	1023,695	1022,470	771.739,472	8.186.641,075	1023,625	-2,0%	3,50	1023,585	-2,0%	5,50
1260+0.000	-7,70	-2,0%	1024,020	-9,70	-2,0%	1024,060	1023,866	1022,594	771.758,691	8.186.635,541	1023,796	-2,0%	3,50	1023,756	-2,0%	5,50
1261+0.000	-7,70	-2,0%	1024,191	-9,70	-2,0%	1024,231	1024,037	1022,776	771.777,910	8.186.630,007	1023,967	-2,0%	3,50	1023,927	-2,0%	5,50
1262+0.000	-7,70	-2,0%	1024,362	-9,70	-2,0%	1024,402	1024,208	1022,960	771.797,129	8.186.624,472	1024,138	-2,0%	3,50	1024,098	-2,0%	5,50
1263+0.000	-7,70	-2,0%	1024,533	-9,70	-2,0%	1024,573	1024,379	1023,287	771.816,348	8.186.618,938	1024,309	-2,0%	3,50	1024,269	-2,0%	5,50
1264+0.000	-7,70	-2,0%	1024,704	-9,70	-2,0%	1024,744	1024,550	1023,483	771.835,567	8.186.613,404	1024,480	-2,0%	3,50	1024,440	-2,0%	5,50
1265+0.000	-7,70	-2,0%	1024,875	-9,70	-2,0%	1024,915	1024,721	1023,673	771.854,786	8.186.607,870	1024,651	-2,0%	3,50	1024,611	-2,0%	5,50
1266+0.000	-7,70	-2,0%	1025,046	-9,70	-2,0%	1025,086	1024,892	1023,781	771.874,005	8.186.602,336	1024,822	-2,0%	3,50	1024,782	-2,0%	5,50
1267+0.000	-7,70	-2,0%	1025,217	-9,70	-2,0%	1025,257	1025,063	1023,938	771.893,225	8.186.596,802	1024,993	-2,0%	3,50	1024,953	-2,0%	5,50
1268+0.000	-7,70	-2,0%	1025,388	-9,70	-2,0%	1025,428	1025,234	1024,173	771.912,444	8.186.591,267	1025,164	-2,0%	3,50	1025,124	-2,0%	5,50
1269+0.000	-7,70	-2,0%	1025,559	-9,70	-2,0%	1025,599	1025,405	1024,333	771.931,663	8.186.585,733	1025,335	-2,0%	3,50	1025,295	-2,0%	5,50
1270+0.000	-7,70	-2,0%	1025,711	-9,70	-2,0%	1025,751	1025,557	1024,444	771.950,882	8.186.580,199	1025,487	-2,0%	3,50	1025,447	-2,0%	5,50
1271+0.000	-7,70	-2,0%	1025,813	-9,70	-2,0%	1025,853	1025,659	1024,344	771.970,101	8.186.574,665	1025,589	-2,0%	3,50	1025,549	-2,0%	5,50
1272+0.000	-7,70	-2,0%	1025,865	-9,70	-2,0%	1025,905	1025,711	1024,482	771.989,320	8.186.569,131	1025,641	-2,0%	3,50	1025,601	-2,0%	5,50
1273+0.000	-7,70	-2,0%	1025,867	-9,70	-2,0%	1025,907	1025,713	1024,527	772.008,539	8.186.563,597	1025,643	-2,0%	3,50	1025,603	-2,0%	5,50
1274+0.000	-7,70	-2,0%	1025,820	-9,70	-2,0%	1025,860	1025,666	1024,419	772.027,758	8.186.558,063	1025,596	-2,0%	3,50	1025,556	-2,0%	5,50
1275+0.000	-7,70	-2,0%	1025,722	-9,70	-2,0%	1025,762	1025,568	1024,351	772.046,977	8.186.552,528	1025,498	-2,0%	3,50	1025,458	-2,0%	5,50
1276+0.000	-7,70	-2,0%	1025,575	-9,70	-2,0%	1025,615	1025,421	1024,123	772.066,196	8.186.546,994	1025,351	-2,0%	3,50	1025,311	-2,0%	5,50
1277+0.000	-7,70	-2,0%	1025,378	-9,70	-2,0%	1025,418	1025,224	1023,958	772.085,415	8.186.541,460	1025,154	-2,0%	3,50	1025,114	-2,0%	5,50
1278+0.000	-7,70	-2,0%	1025,131	-9,70	-2,0%	1025,171	1024,977	1023,666	772.104,634	8.186.535,926	1024,907	-2,0%	3,50	1024,867	-2,0%	5,50
1279+0.000	-7,70	-2,0%	1024,835	-9,70	-2,0%	1024,875	1024,681	1023,587	772.123,854	8.186.530,392	1024,611	-2,0%	3,50	1024,571	-2,0%	5,50
1280+0.000	-7,70	-2,0%	1024,507	-9,70	-2,0%	1024,547	1024,353	1023,238	772.143,073	8.186.524,858	1024,283	-2,0%	3,50	1024,243	-2,0%	5,50
1281+0.000	-7,70	-2,0%	1024,180	-9,70	-2,0%	1024,220	1024,026	1022,959	772.162,292	8.186.519,323	1023,956	-2,0%	3,50	1023,916	-2,0%	5,50
1282+0.000	-7,70	-2,0%	1023,852	-9,70	-2,0%	1023,892	1023,698	1022,731	772.181,511	8.186.513,789	1023,628	-2,0%	3,50	1023,588	-2,0%	5,50
1283+0.000	-7,70	-2,0%	1023,525	-9,70	-2,0%	1023,565	1023,371	1022,458	772.200,730	8.186.508,255	1023,301	-2,0%	3,50	1023,261	-2,0%	5,50
1284+0.000	-7,70	-2,0%	1023,197	-9,70	-2,0%	1023,237	1023,043	1022,202	772.219,949	8.186.502,721	1022,973	-2,0%	3,50	1022,933	-2,0%	5,50
1285+0.000	-7,70	-2,0%	1022,870	-9,70	-2,0%	1022,910	1022,716	1021,901	772.239,168	8.186.497,187	1022,646	-2,0%	3,50	1022,606	-2,0%	5,50
1286+0.000	-7,70	-2,0%	1022,542	-9,70	-2,0%	1022,582	1022,388	1021,533	772.258,387	8.186.491,653	1022,318	-2,0%	3,50	1022,278	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

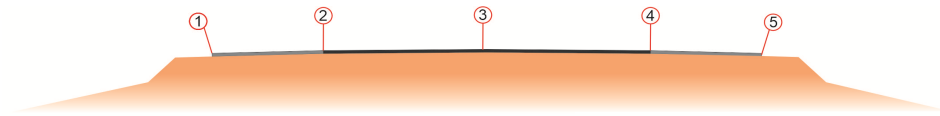
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1287+0.000	-7,70	-2,0%	1022,215	-9,70	-2,0%	1022,255	1022,061	1021,278	772.277,606	8.186.486,119	1021,991	-2,0%	3,50	1021,951	-2,0%	5,50
1288+0.000	-7,70	-2,0%	1021,887	-9,70	-2,0%	1021,927	1021,733	1020,875	772.296,825	8.186.480,584	1021,663	-2,0%	3,50	1021,623	-2,0%	5,50
1289+0.000	-7,70	-2,0%	1021,560	-9,70	-2,0%	1021,600	1021,406	1020,570	772.316,044	8.186.475,050	1021,336	-2,0%	3,50	1021,296	-2,0%	5,50
1290+0.000	-7,70	-2,0%	1021,232	-9,70	-2,0%	1021,272	1021,078	1020,192	772.335,263	8.186.469,516	1021,008	-2,0%	3,50	1020,968	-2,0%	5,50
1291+0.000	-7,70	-2,0%	1020,905	-9,70	-2,0%	1020,945	1020,751	1019,803	772.354,483	8.186.463,982	1020,681	-2,0%	3,50	1020,641	-2,0%	5,50
1292+0.000	-7,70	-2,0%	1020,577	-9,70	-2,0%	1020,617	1020,423	1019,516	772.373,702	8.186.458,448	1020,353	-2,0%	3,50	1020,313	-2,0%	5,50
1293+0.000	-7,70	-2,0%	1020,293	-9,70	-2,0%	1020,333	1020,139	1019,030	772.392,921	8.186.452,914	1020,069	-2,0%	3,50	1020,029	-2,0%	5,50
1294+0.000	-7,70	-2,0%	1020,107	-9,70	-2,0%	1020,147	1019,953	1018,902	772.412,140	8.186.447,380	1019,883	-2,0%	3,50	1019,843	-2,0%	5,50
1295+0.000	-7,70	-2,0%	1020,017	-9,70	-2,0%	1020,057	1019,863	1018,557	772.431,359	8.186.441,845	1019,793	-2,0%	3,50	1019,753	-2,0%	5,50
1296+0.000	-7,70	-2,0%	1020,025	-9,70	-2,0%	1020,065	1019,871	1018,291	772.450,578	8.186.436,311	1019,801	-2,0%	3,50	1019,761	-2,0%	5,50
1297+0.000	-7,70	-2,0%	1020,129	-9,70	-2,0%	1020,169	1019,975	1018,143	772.469,797	8.186.430,777	1019,905	-2,0%	3,50	1019,865	-2,0%	5,50
1298+0.000	-7,70	-2,0%	1020,288	-9,70	-2,0%	1020,328	1020,134	1018,020	772.489,016	8.186.425,243	1020,064	-2,0%	3,50	1020,024	-2,0%	5,50
1299+0.000	-7,70	-2,0%	1020,446	-9,70	-2,0%	1020,486	1020,292	1017,980	772.508,235	8.186.419,709	1020,222	-2,0%	3,50	1020,182	-2,0%	5,50
1300+0.000	-7,70	-2,0%	1020,604	-9,70	-2,0%	1020,644	1020,450	1017,938	772.527,454	8.186.414,175	1020,380	-2,0%	3,50	1020,340	-2,0%	5,50
1301+0.000	-7,70	-2,0%	1020,763	-9,70	-2,0%	1020,803	1020,609	1017,941	772.546,673	8.186.408,640	1020,539	-2,0%	3,50	1020,499	-2,0%	5,50
1302+0.000	-7,70	-2,0%	1020,894	-9,70	-2,0%	1020,934	1020,740	1017,891	772.565,892	8.186.403,106	1020,670	-2,0%	3,50	1020,630	-2,0%	5,50
1303+0.000	-7,70	-2,0%	1020,944	-9,70	-2,0%	1020,984	1020,790	1017,985	772.585,112	8.186.397,572	1020,720	-2,0%	3,50	1020,680	-2,0%	5,50
1304+0.000	-7,70	-2,0%	1020,911	-9,70	-2,0%	1020,951	1020,757	1018,073	772.604,331	8.186.392,038	1020,687	-2,0%	3,50	1020,647	-2,0%	5,50
1305+0.000	-7,70	-2,0%	1020,794	-9,70	-2,0%	1020,834	1020,640	1018,140	772.623,550	8.186.386,504	1020,570	-2,0%	3,50	1020,530	-2,0%	5,50
1306+0.000	-7,70	-2,0%	1020,622	-9,70	-2,0%	1020,662	1020,468	1018,396	772.642,769	8.186.380,970	1020,398	-2,0%	3,50	1020,358	-2,0%	5,50
1307+0.000	-7,70	-2,0%	1020,448	-9,70	-2,0%	1020,488	1020,294	1018,474	772.661,988	8.186.375,436	1020,224	-2,0%	3,50	1020,184	-2,0%	5,50
1308+0.000	-7,70	-2,0%	1020,274	-9,70	-2,0%	1020,314	1020,120	1018,699	772.681,207	8.186.369,901	1020,050	-2,0%	3,50	1020,010	-2,0%	5,50
1309+0.000	-7,70	-2,0%	1020,100	-9,70	-2,0%	1020,140	1019,946	1018,715	772.700,426	8.186.364,367	1019,876	-2,0%	3,50	1019,836	-2,0%	5,50
1310+0.000	-7,70	-2,0%	1019,910	-9,70	-2,0%	1019,950	1019,756	1018,876	772.719,645	8.186.358,833	1019,686	-2,0%	3,50	1019,646	-2,0%	5,50
1311+0.000	-7,70	-2,0%	1019,655	-9,70	-2,0%	1019,695	1019,501	1018,673	772.738,864	8.186.353,299	1019,431	-2,0%	3,50	1019,391	-2,0%	5,50
1312+0.000	-7,70	-2,0%	1019,332	-9,70	-2,0%	1019,372	1019,178	1018,628	772.758,083	8.186.347,765	1019,108	-2,0%	3,50	1019,068	-2,0%	5,50
1313+0.000	-7,70	-2,0%	1018,941	-9,70	-2,0%	1018,981	1018,787	1018,477	772.777,302	8.186.342,231	1018,717	-2,0%	3,50	1018,677	-2,0%	5,50
1314+0.000	-7,70	-2,0%	1018,482	-9,70	-2,0%	1018,522	1018,328	1018,149	772.796,521	8.186.336,696	1018,258	-2,0%	3,50	1018,218	-2,0%	5,50
1315+0.000	-7,70	-2,0%	1017,955	-9,70	-2,0%	1017,995	1017,801	1017,644	772.815,741	8.186.331,162	1017,731	-2,0%	3,50	1017,691	-2,0%	5,50
1316+0.000	-7,70	-2,0%	1017,376	-9,70	-2,0%	1017,416	1017,222	1016,887	772.834,960	8.186.325,628	1017,152	-2,0%	3,50	1017,112	-2,0%	5,50
1317+0.000	-7,70	-2,0%	1016,793	-9,70	-2,0%	1016,833	1016,639	1016,373	772.854,179	8.186.320,094	1016,569	-2,0%	3,50	1016,529	-2,0%	5,50
1318+0.000	-7,70	-2,0%	1016,211	-9,70	-2,0%	1016,251	1016,057	1015,547	772.873,398	8.186.314,560	1015,987	-2,0%	3,50	1015,947	-2,0%	5,50
1319+0.000	-7,70	-2,0%	1015,629	-9,70	-2,0%	1015,669	1015,475	1014,722	772.892,617	8.186.309,026	1015,405	-2,0%	3,50	1015,365	-2,0%	5,50
1320+0.000	-7,70	-2,0%	1015,046	-9,70	-2,0%	1015,086	1014,892	1014,042	772.911,836	8.186.303,492	1014,822	-2,0%	3,50	1014,782	-2,0%	5,50
1321+0.000	-7,70	-2,0%	1014,464	-9,70	-2,0%	1014,504	1014,310	1013,388	772.931,055	8.186.297,957	1014,240	-2,0%	3,50	1014,200	-2,0%	5,50
1322+0.000	-7,70	-2,0%	1013,882	-9,70	-2,0%	1013,922	1013,728	1012,790	772.950,274	8.186.292,423	1013,658	-2,0%	3,50	1013,618	-2,0%	5,50
1323+0.000	-7,70	-2,0%	1013,300	-9,70	-2,0%	1013,340	1013,146	1012,229	772.969,493	8.186.286,889	1013,076	-2,0%	3,50	1013,036	-2,0%	5,50
1324+0.000	-7,70	-2,0%	1012,717	-9,70	-2,0%	1012,757	1012,563	1011,611	772.988,712	8.186.281,355	1012,493	-2,0%	3,50	1012,453	-2,0%	5,50
1325+0.000	-7,70	-2,0%	1012,145	-9,70	-2,0%	1012,185	1011,991	1011,017	773.007,931	8.186.275,821	1011,921	-2,0%	3,50	1011,881	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

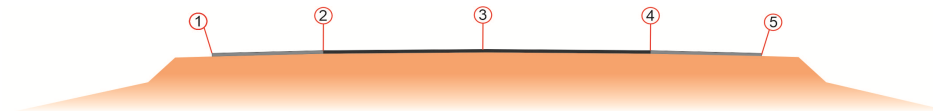
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1326+0.000	-7,70	-2,0%	1011,667	-9,70	-2,0%	1011,707	1011,513	1010,604	773.027,150	8.186.270,287	1011,443	-2,0%	3,50	1011,403	-2,0%	5,50
1327+0.000	-7,70	-2,0%	1011,303	-9,70	-2,0%	1011,343	1011,149	1010,235	773.046,370	8.186.264,753	1011,079	-2,0%	3,50	1011,039	-2,0%	5,50
1328+0.000	-7,70	-2,0%	1011,054	-9,70	-2,0%	1011,094	1010,900	1009,882	773.065,589	8.186.259,218	1010,830	-2,0%	3,50	1010,790	-2,0%	5,50
1329+0.000	-7,70	-2,0%	1010,920	-9,70	-2,0%	1010,960	1010,766	1009,515	773.084,808	8.186.253,684	1010,696	-2,0%	3,50	1010,656	-2,0%	5,50
1330+0.000	-7,70	-2,0%	1010,900	-9,70	-2,0%	1010,940	1010,746	1009,217	773.104,027	8.186.248,150	1010,676	-2,0%	3,50	1010,636	-2,0%	5,50
1331+0.000	-7,70	-2,0%	1010,984	-9,70	-2,0%	1011,024	1010,830	1009,034	773.123,246	8.186.242,616	1010,760	-2,0%	3,50	1010,720	-2,0%	5,50
1332+0.000	-7,70	-2,0%	1011,089	-9,70	-2,0%	1011,129	1010,935	1008,784	773.142,465	8.186.237,082	1010,865	-2,0%	3,50	1010,825	-2,0%	5,50
1333+0.000	-7,70	-2,0%	1011,193	-9,70	-2,0%	1011,233	1011,039	1008,653	773.161,684	8.186.231,548	1010,969	-2,0%	3,50	1010,929	-2,0%	5,50
1334+0.000	-7,70	-2,0%	1011,298	-9,70	-2,0%	1011,338	1011,144	1008,466	773.180,903	8.186.226,013	1011,074	-2,0%	3,50	1011,034	-2,0%	5,50
1335+0.000	-7,70	-2,0%	1011,402	-9,70	-2,0%	1011,442	1011,248	1008,445	773.200,122	8.186.220,479	1011,178	-2,0%	3,50	1011,138	-2,0%	5,50
1336+0.000	-7,70	-2,0%	1011,500	-9,70	-2,0%	1011,540	1011,346	1008,419	773.219,341	8.186.214,945	1011,276	-2,0%	3,50	1011,236	-2,0%	5,50
1337+0.000	-7,70	-2,0%	1011,523	-9,70	-2,0%	1011,563	1011,369	1008,460	773.238,560	8.186.209,411	1011,299	-2,0%	3,50	1011,259	-2,0%	5,50
1338+0.000	-7,70	-2,0%	1011,452	-9,70	-2,0%	1011,492	1011,298	1008,574	773.257,779	8.186.203,877	1011,228	-2,0%	3,50	1011,188	-2,0%	5,50
1339+0.000	-7,70	-2,0%	1011,289	-9,70	-2,0%	1011,329	1011,135	1008,619	773.276,999	8.186.198,343	1011,065	-2,0%	3,50	1011,025	-2,0%	5,50
1340+0.000	-7,70	-2,0%	1011,039	-9,70	-2,0%	1011,079	1010,885	1008,880	773.296,218	8.186.192,809	1010,815	-2,0%	3,50	1010,775	-2,0%	5,50
1341+0.000	-7,70	-2,0%	1010,772	-9,70	-2,0%	1010,812	1010,618	1008,118	773.315,437	8.186.187,274	1010,548	-2,0%	3,50	1010,508	-2,0%	5,50
1342+0.000	-7,70	-2,0%	1010,504	-9,70	-2,0%	1010,544	1010,350	1007,981	773.334,656	8.186.181,740	1010,280	-2,0%	3,50	1010,240	-2,0%	5,50
1343+0.000	-7,70	-2,0%	1010,237	-9,70	-2,0%	1010,277	1010,083	1007,603	773.353,875	8.186.176,206	1010,013	-2,0%	3,50	1009,973	-2,0%	5,50
1344+0.000	-7,70	-2,0%	1009,970	-9,70	-2,0%	1010,010	1009,816	1007,706	773.373,094	8.186.170,672	1009,746	-2,0%	3,50	1009,706	-2,0%	5,50
1345+0.000	-7,70	-2,0%	1009,702	-9,70	-2,0%	1009,742	1009,548	1007,386	773.392,313	8.186.165,138	1009,478	-2,0%	3,50	1009,438	-2,0%	5,50
1346+0.000	-7,70	-2,0%	1009,435	-9,70	-2,0%	1009,475	1009,281	1007,605	773.411,532	8.186.159,604	1009,211	-2,0%	3,50	1009,171	-2,0%	5,50
1347+0.000	-7,70	-2,0%	1009,165	-9,70	-2,0%	1009,205	1009,011	1007,637	773.430,751	8.186.154,070	1008,941	-2,0%	3,50	1008,901	-2,0%	5,50
1348+0.000	-7,70	-2,0%	1008,856	-9,70	-2,0%	1008,896	1008,702	1008,283	773.449,970	8.186.148,535	1008,632	-2,0%	3,50	1008,592	-2,0%	5,50
1349+0.000	-7,70	-2,0%	1008,492	-9,70	-2,0%	1008,532	1008,338	1007,714	773.469,189	8.186.143,001	1008,268	-2,0%	3,50	1008,228	-2,0%	5,50
1350+0.000	-7,70	-2,0%	1008,073	-9,70	-2,0%	1008,113	1007,919	1007,206	773.488,409	8.186.137,467	1007,849	-2,0%	3,50	1007,809	-2,0%	5,50
1351+0.000	-7,70	-2,0%	1007,600	-9,70	-2,0%	1007,640	1007,446	1006,706	773.507,628	8.186.131,933	1007,376	-2,0%	3,50	1007,336	-2,0%	5,50
1352+0.000	-7,70	-2,0%	1007,073	-9,70	-2,0%	1007,113	1006,919	1006,126	773.526,847	8.186.126,399	1006,849	-2,0%	3,50	1006,809	-2,0%	5,50
1353+0.000	-7,70	-2,0%	1006,493	-9,70	-2,0%	1006,533	1006,339	1005,340	773.546,066	8.186.120,865	1006,269	-2,0%	3,50	1006,229	-2,0%	5,50
1354+0.000	-7,70	-2,0%	1005,899	-9,70	-2,0%	1005,939	1005,745	1004,684	773.565,285	8.186.115,330	1005,675	-2,0%	3,50	1005,635	-2,0%	5,50
1355+0.000	-7,70	-2,0%	1005,305	-9,70	-2,0%	1005,345	1005,151	1004,164	773.584,504	8.186.109,796	1005,081	-2,0%	3,50	1005,041	-2,0%	5,50
1356+0.000	-7,70	-2,0%	1004,711	-9,70	-2,0%	1004,751	1004,557	1003,458	773.603,722	8.186.104,262	1004,487	-2,0%	3,50	1004,447	-2,0%	5,50
1357+0.000	-7,70	-2,0%	1004,116	-9,70	-2,0%	1004,156	1003,962	1002,903	773.622,941	8.186.098,866	1003,892	-2,0%	3,50	1003,852	-2,0%	5,50
1358+0.000	-7,70	-2,0%	1003,522	-9,70	-2,0%	1003,562	1003,368	1002,149	773.642,253	8.186.093,516	1003,298	-2,0%	3,50	1003,258	-2,0%	5,50
1359+0.000	-7,70	-2,0%	1002,928	-9,70	-2,0%	1002,968	1002,774	1001,532	773.661,544	8.186.088,241	1002,704	-2,0%	3,50	1002,664	-2,0%	5,50
1360+0.000	-7,70	-2,0%	1002,334	-9,70	-2,0%	1002,374	1002,180	1000,704	773.680,841	8.186.082,985	1002,110	-2,0%	3,50	1002,070	-2,0%	5,50
1361+0.000	-7,70	-2,0%	1001,739	-9,70	-2,0%	1001,779	1001,585	1000,291	773.700,139	8.186.077,729	1001,515	-2,0%	3,50	1001,475	-2,0%	5,50
1362+0.000	-7,70	-2,0%	1001,145	-9,70	-2,0%	1001,185	1000,991	999,823	773.719,436	8.186.072,474	1000,921	-2,0%	3,50	1000,881	-2,0%	5,50
1363+0.000	-7,70	-2,0%	1000,551	-9,70	-2,0%	1000,591	1000,397	999,171	773.738,733	8.186.067,218	1000,327	-2,0%	3,50	1000,287	-2,0%	5,50
1364+0.000	-7,70	-2,0%	999,957	-9,70	-2,0%	999,997	999,803	998,560	773.758,030	8.186.061,962	999,733	-2,0%	3,50	999,693	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

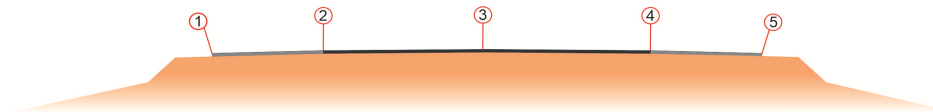
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1365+0.000	-7,70	-2,0%	999,363	-9,70	-2,0%	999,403	999,209	998,070	773.777,327	8.186.056,707	999,139	-2,0%	3,50	999,099	-2,0%	5,50
1366+0.000	-7,70	-2,0%	998,768	-9,70	-2,0%	998,808	998,614	997,555	773.796,624	8.186.051,451	998,544	-2,0%	3,50	998,504	-2,0%	5,50
1367+0.000	-7,70	-2,0%	998,174	-9,70	-2,0%	998,214	998,020	996,812	773.815,921	8.186.046,195	997,950	-2,0%	3,50	997,910	-2,0%	5,50
1368+0.000	-7,70	-2,0%	997,580	-9,70	-2,0%	997,620	997,426	996,161	773.835,218	8.186.040,940	997,356	-2,0%	3,50	997,316	-2,0%	5,50
1369+0.000	-7,70	-2,0%	996,986	-9,70	-2,0%	997,026	996,832	995,463	773.854,515	8.186.035,684	996,762	-2,0%	3,50	996,722	-2,0%	5,50
1370+0.000	-7,70	-2,0%	996,392	-9,70	-2,0%	996,432	996,238	994,688	773.873,812	8.186.030,428	996,168	-2,0%	3,50	996,128	-2,0%	5,50
1371+0.000	-7,70	-2,0%	995,797	-9,70	-2,0%	995,837	995,643	994,073	773.893,109	8.186.025,172	995,573	-2,0%	3,50	995,533	-2,0%	5,50
1372+0.000	-7,70	-2,0%	995,203	-9,70	-2,0%	995,243	995,049	993,489	773.912,407	8.186.019,917	994,979	-2,0%	3,50	994,939	-2,0%	5,50
1373+0.000	-7,70	-2,0%	994,609	-9,70	-2,0%	994,649	994,455	992,662	773.931,704	8.186.014,661	994,385	-2,0%	3,50	994,345	-2,0%	5,50
1374+0.000	-7,70	-2,0%	994,015	-9,70	-2,0%	994,055	993,861	992,121	773.951,001	8.186.009,405	993,791	-2,0%	3,50	993,751	-2,0%	5,50
1375+0.000	-7,70	-2,0%	993,420	-9,70	-2,0%	993,460	993,266	991,575	773.970,298	8.186.004,150	993,196	-2,0%	3,50	993,156	-2,0%	5,50
1376+0.000	-7,70	-2,0%	992,826	-9,70	-2,0%	992,866	992,672	991,209	773.989,595	8.185.998,894	992,602	-2,0%	3,50	992,562	-2,0%	5,50
1377+0.000	-7,70	-2,0%	992,232	-9,70	-2,0%	992,272	992,078	990,885	774.008,892	8.185.993,638	992,008	-2,0%	3,50	991,968	-2,0%	5,50
1378+0.000	-7,70	-2,0%	991,638	-9,70	-2,0%	991,678	991,484	990,678	774.028,189	8.185.988,382	991,414	-2,0%	3,50	991,374	-2,0%	5,50
1379+0.000	-7,70	-2,0%	991,044	-9,70	-2,0%	991,084	990,890	990,280	774.047,486	8.185.983,127	990,820	-2,0%	3,50	990,780	-2,0%	5,50
1380+0.000	-7,70	-2,0%	990,475	-9,70	-2,0%	990,515	990,321	989,874	774.066,783	8.185.977,871	990,251	-2,0%	3,50	990,211	-2,0%	5,50
1381+0.000	-7,70	-2,0%	990,019	-9,70	-2,0%	990,059	989,865	989,724	774.086,080	8.185.972,615	989,795	-2,0%	3,50	989,755	-2,0%	5,50
1382+0.000	-7,70	-2,0%	989,681	-9,70	-2,0%	989,721	989,527	989,344	774.105,377	8.185.967,360	989,457	-2,0%	3,50	989,417	-2,0%	5,50
1383+0.000	-7,70	-2,0%	989,462	-9,70	-2,0%	989,502	989,308	989,010	774.124,674	8.185.962,104	989,238	-2,0%	3,50	989,198	-2,0%	5,50
1384+0.000	-7,70	-2,0%	989,361	-9,70	-2,0%	989,401	989,207	988,696	774.143,972	8.185.956,848	989,137	-2,0%	3,50	989,097	-2,0%	5,50
1385+0.000	-7,70	-2,0%	989,380	-9,70	-2,0%	989,420	989,226	988,279	774.163,269	8.185.951,593	989,156	-2,0%	3,50	989,116	-2,0%	5,50
1386+0.000	-7,70	-2,0%	989,491	-9,70	-2,0%	989,531	989,337	988,030	774.182,566	8.185.946,337	989,267	-2,0%	3,50	989,227	-2,0%	5,50
1387+0.000	-7,70	-2,0%	989,610	-9,70	-2,0%	989,650	989,456	987,718	774.201,863	8.185.941,081	989,386	-2,0%	3,50	989,346	-2,0%	5,50
1388+0.000	-7,70	-2,0%	989,728	-9,70	-2,0%	989,768	989,574	987,407	774.221,160	8.185.935,825	989,504	-2,0%	3,50	989,464	-2,0%	5,50
1389+0.000	-7,70	-2,0%	989,846	-9,70	-2,0%	989,886	989,692	987,122	774.240,457	8.185.930,570	989,622	-2,0%	3,50	989,582	-2,0%	5,50
1390+0.000	-7,70	-2,0%	989,965	-9,70	-2,0%	990,005	989,811	986,714	774.259,754	8.185.925,314	989,741	-2,0%	3,50	989,701	-2,0%	5,50
1391+0.000	-7,70	-2,0%	990,083	-9,70	-2,0%	990,123	989,929	986,395	774.279,051	8.185.920,058	989,859	-2,0%	3,50	989,819	-2,0%	5,50
1392+0.000	-7,70	-2,0%	990,201	-9,70	-2,0%	990,241	990,047	986,241	774.298,348	8.185.914,803	989,977	-2,0%	3,50	989,937	-2,0%	5,50
1393+0.000	-7,70	-2,0%	990,320	-9,70	-2,0%	990,360	990,166	986,114	774.317,645	8.185.909,547	990,096	-2,0%	3,50	990,056	-2,0%	5,50
1394+0.000	-7,70	-2,0%	990,402	-9,70	-2,0%	990,442	990,248	985,985	774.336,934	8.185.904,291	990,178	-2,0%	3,50	990,138	-2,0%	5,50
1395+0.000	-7,70	-2,0%	990,404	-9,70	-2,0%	990,444	990,250	986,086	774.356,200	8.185.898,894	990,180	-2,0%	3,50	990,140	-2,0%	5,50
1396+0.000	-7,70	-2,0%	990,325	-9,70	-2,0%	990,365	990,171	986,098	774.375,446	8.185.893,452	990,101	-2,0%	3,50	990,061	-2,0%	5,50
1397+0.000	-7,70	-2,0%	990,202	-9,70	-2,0%	990,242	990,048	986,088	774.394,670	8.185.887,936	989,978	-2,0%	3,50	989,938	-2,0%	5,50
1398+0.000	-7,70	-2,0%	990,078	-9,70	-2,0%	990,118	989,924	986,239	774.413,889	8.185.882,401	989,854	-2,0%	3,50	989,814	-2,0%	5,50
1399+0.000	-7,70	-2,0%	989,955	-9,70	-2,0%	989,995	989,801	986,364	774.433,108	8.185.876,867	989,731	-2,0%	3,50	989,691	-2,0%	5,50
1400+0.000	-7,70	-2,0%	989,831	-9,70	-2,0%	989,871	989,677	986,614	774.452,327	8.185.871,332	989,607	-2,0%	3,50	989,567	-2,0%	5,50
1401+0.000	-7,70	-2,0%	989,708	-9,70	-2,0%	989,748	989,554	986,732	774.471,546	8.185.865,798	989,484	-2,0%	3,50	989,444	-2,0%	5,50
1402+0.000	-7,70	-2,0%	989,584	-9,70	-2,0%	989,624	989,430	986,955	774.490,765	8.185.860,263	989,360	-2,0%	3,50	989,320	-2,0%	5,50
1403+0.000	-7,70	-2,0%	989,476	-9,70	-2,0%	989,516	989,322	987,199	774.509,984	8.185.854,729	989,252	-2,0%	3,50	989,212	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

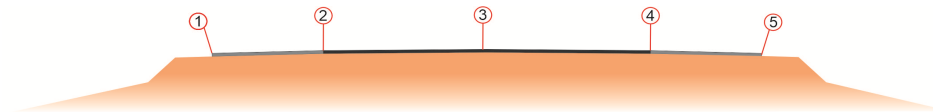
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1404+0.000	-7,70	-2,0%	989,467	-9,70	-2,0%	989,507	989,313	987,436	774.529,203	8.185.849,194	989,243	-2,0%	3,50	989,203	-2,0%	5,50
1405+0.000	-7,70	-2,0%	989,570	-9,70	-2,0%	989,610	989,416	987,818	774.548,422	8.185.843,660	989,346	-2,0%	3,50	989,306	-2,0%	5,50
1406+0.000	-7,70	-2,0%	989,785	-9,70	-2,0%	989,825	989,631	988,058	774.567,641	8.185.838,125	989,561	-2,0%	3,50	989,521	-2,0%	5,50
1407+0.000	-7,70	-2,0%	990,111	-9,70	-2,0%	990,151	989,957	988,593	774.586,860	8.185.832,590	989,887	-2,0%	3,50	989,847	-2,0%	5,50
1408+0.000	-7,70	-2,0%	990,549	-9,70	-2,0%	990,589	990,395	989,027	774.606,079	8.185.827,056	990,325	-2,0%	3,50	990,285	-2,0%	5,50
1409+0.000	-7,70	-2,0%	991,099	-9,70	-2,0%	991,139	990,945	989,624	774.625,298	8.185.821,521	990,875	-2,0%	3,50	990,835	-2,0%	5,50
1410+0.000	-7,70	-2,0%	991,745	-9,70	-2,0%	991,785	991,591	990,063	774.644,517	8.185.815,987	991,521	-2,0%	3,50	991,481	-2,0%	5,50
1411+0.000	-7,70	-2,0%	992,404	-9,70	-2,0%	992,444	992,250	990,786	774.663,736	8.185.810,452	992,180	-2,0%	3,50	992,140	-2,0%	5,50
1412+0.000	-7,70	-2,0%	993,063	-9,70	-2,0%	993,103	992,909	991,408	774.682,955	8.185.804,918	992,839	-2,0%	3,50	992,799	-2,0%	5,50
1413+0.000	-7,70	-2,0%	993,722	-9,70	-2,0%	993,762	993,568	992,203	774.702,174	8.185.799,383	993,498	-2,0%	3,50	993,458	-2,0%	5,50
1414+0.000	-7,70	-2,0%	994,381	-9,70	-2,0%	994,421	994,227	992,865	774.721,393	8.185.793,848	994,157	-2,0%	3,50	994,117	-2,0%	5,50
1415+0.000	-7,70	-2,0%	995,040	-9,70	-2,0%	995,080	994,886	993,613	774.740,612	8.185.788,314	994,816	-2,0%	3,50	994,776	-2,0%	5,50
1416+0.000	-7,70	-2,0%	995,699	-9,70	-2,0%	995,739	995,545	994,171	774.759,831	8.185.782,779	995,475	-2,0%	3,50	995,435	-2,0%	5,50
1417+0.000	-7,70	-2,0%	996,358	-9,70	-2,0%	996,398	996,204	995,095	774.779,050	8.185.777,245	996,134	-2,0%	3,50	996,094	-2,0%	5,50
1418+0.000	-7,70	-2,0%	997,016	-9,70	-2,0%	997,056	996,862	995,770	774.798,269	8.185.771,710	996,792	-2,0%	3,50	996,752	-2,0%	5,50
1419+0.000	-7,70	-2,0%	997,675	-9,70	-2,0%	997,715	997,521	996,530	774.817,487	8.185.766,176	997,451	-2,0%	3,50	997,411	-2,0%	5,50
1420+0.000	-7,70	-2,0%	998,334	-9,70	-2,0%	998,374	998,180	997,250	774.836,706	8.185.760,641	998,110	-2,0%	3,50	998,070	-2,0%	5,50
1421+0.000	-7,70	-2,0%	998,993	-9,70	-2,0%	999,033	998,839	998,013	774.855,925	8.185.755,107	998,769	-2,0%	3,50	998,729	-2,0%	5,50
1422+0.000	-7,70	-2,0%	999,652	-9,70	-2,0%	999,692	999,498	998,709	774.875,144	8.185.749,572	999,428	-2,0%	3,50	999,388	-2,0%	5,50
1423+0.000	-7,70	-2,0%	1000,311	-9,70	-2,0%	1000,351	1000,157	999,462	774.894,363	8.185.744,037	1000,087	-2,0%	3,50	1000,047	-2,0%	5,50
1424+0.000	-7,70	-2,0%	1000,970	-9,70	-2,0%	1001,010	1000,816	1000,177	774.913,582	8.185.738,503	1000,746	-2,0%	3,50	1000,706	-2,0%	5,50
1425+0.000	-7,70	-2,0%	1001,629	-9,70	-2,0%	1001,669	1001,475	1000,892	774.932,801	8.185.732,968	1001,405	-2,0%	3,50	1001,365	-2,0%	5,50
1426+0.000	-7,70	-2,0%	1002,288	-9,70	-2,0%	1002,328	1002,134	1001,548	774.952,020	8.185.727,434	1002,064	-2,0%	3,50	1002,024	-2,0%	5,50
1427+0.000	-7,70	-2,0%	1002,938	-9,70	-2,0%	1002,978	1002,784	1002,186	774.971,239	8.185.721,899	1002,714	-2,0%	3,50	1002,674	-2,0%	5,50
1428+0.000	-7,70	-2,0%	1003,544	-9,70	-2,0%	1003,584	1003,390	1002,709	774.990,458	8.185.716,365	1003,320	-2,0%	3,50	1003,280	-2,0%	5,50
1429+0.000	-7,70	-2,0%	1004,100	-9,70	-2,0%	1004,140	1003,946	1003,225	775.009,677	8.185.710,830	1003,876	-2,0%	3,50	1003,836	-2,0%	5,50
1430+0.000	-7,70	-2,0%	1004,608	-9,70	-2,0%	1004,648	1004,454	1003,769	775.028,896	8.185.705,296	1004,384	-2,0%	3,50	1004,344	-2,0%	5,50
1431+0.000	-7,77	-2,0%	1005,066	-9,77	-2,0%	1005,106	1004,911	1004,227	775.048,115	8.185.699,761	1004,841	-2,0%	3,50	1004,801	-2,0%	5,50
1432+0.000	-8,20	-2,0%	1005,483	-10,20	-2,0%	1005,523	1005,319	1004,518	775.067,334	8.185.694,226	1005,249	-2,0%	3,50	1005,209	-2,0%	5,50
1433+0.000	-8,63	-2,0%	1005,851	-10,63	-2,0%	1005,891	1005,678	1004,794	775.086,553	8.185.688,692	1005,608	-2,0%	3,50	1005,568	-2,0%	5,50
1434+0.000	-9,06	-2,0%	1006,168	-11,06	-2,0%	1006,208	1005,987	1004,986	775.105,772	8.185.683,157	1005,911	-2,0%	3,79	1005,871	-2,0%	5,79
1435+0.000	-9,20	-2,0%	1006,431	-11,20	-2,0%	1006,471	1006,247	1005,112	775.124,991	8.185.677,623	1006,163	-2,0%	4,22	1006,123	-2,0%	6,22
1436+0.000	-9,20	-2,0%	1006,642	-11,20	-2,0%	1006,682	1006,458	1005,278	775.144,210	8.185.672,088	1006,365	-2,0%	4,65	1006,325	-2,0%	6,65
1437+0.000	-9,20	-2,0%	1006,811	-11,20	-2,0%	1006,851	1006,627	1005,542	775.163,429	8.185.666,554	1006,527	-2,0%	5,00	1006,487	-2,0%	7,00
1438+0.000	-9,20	-2,0%	1006,976	-11,20	-2,0%	1007,016	1006,792	1005,733	775.182,648	8.185.661,019	1006,692	-2,0%	5,00	1006,652	-2,0%	7,00
1439+0.000	-9,20	-2,0%	1007,141	-11,20	-2,0%	1007,181	1006,957	1005,821	775.201,867	8.185.655,484	1006,857	-2,0%	5,00	1006,817	-2,0%	7,00
1440+0.000	7,00	-2,0%	1006,982	5,00	-2,0%	1007,022	1007,122	1006,107	775.221,086	8.185.649,950	1007,022	-2,0%	5,00	1006,982	-2,0%	7,00
1441+0.000	7,00	-2,0%	1007,146	5,00	-2,0%	1007,186	1007,286	1005,936	775.240,305	8.185.644,415	1007,186	-2,0%	5,00	1007,146	-2,0%	7,00
1442+0.000	7,00	-2,0%	1007,311	5,00	-2,0%	1007,351	1007,451	1005,993	775.259,524	8.185.638,881	1007,351	-2,0%	5,00	1007,311	-2,0%	7,00



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

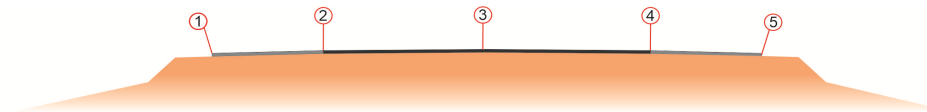
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1443+0.000	7,00	-2,0%	1007,476	5,00	-2,0%	1007,516	1007,616	1006,197	775.278,743	8.185.633,346	1007,516	-2,0%	5,00	1007,476	-2,0%	7,00
1444+0.000	7,00	-2,0%	1007,641	5,00	-2,0%	1007,681	1007,781	1006,027	775.297,962	8.185.627,812	1007,681	-2,0%	5,00	1007,641	-2,0%	7,00
1445+0.000	-9,20	-2,0%	1008,129	-11,20	-2,0%	1008,169	1007,945	1006,062	775.317,181	8.185.622,277	1007,845	-2,0%	5,00	1007,805	-2,0%	7,00
1446+0.000	-9,20	-2,0%	1008,294	-11,20	-2,0%	1008,334	1008,110	1005,969	775.336,400	8.185.616,743	1008,010	-2,0%	5,00	1007,970	-2,0%	7,00
1447+0.000	-9,20	-2,0%	1008,459	-11,20	-2,0%	1008,499	1008,275	1005,914	775.355,619	8.185.611,208	1008,175	-2,0%	5,00	1008,135	-2,0%	7,00
1448+0.000	-8,96	-2,0%	1008,619	-10,96	-2,0%	1008,659	1008,440	1005,979	775.374,837	8.185.605,673	1008,340	-2,0%	5,00	1008,300	-2,0%	7,00
1449+0.000	-8,53	-2,0%	1008,776	-10,53	-2,0%	1008,816	1008,605	1006,366	775.394,056	8.185.600,139	1008,505	-2,0%	5,00	1008,465	-2,0%	7,00
1450+0.000	-8,11	-2,0%	1008,931	-10,11	-2,0%	1008,971	1008,769	1006,676	775.413,275	8.185.594,604	1008,670	-2,0%	4,98	1008,630	-2,0%	6,98
1451+0.000	-7,70	-2,0%	1009,088	-9,70	-2,0%	1009,128	1008,934	1006,512	775.432,494	8.185.589,070	1008,843	-2,0%	4,56	1008,803	-2,0%	6,56
1452+0.000	-7,70	-2,0%	1009,228	-9,70	-2,0%	1009,268	1009,074	1005,976	775.451,713	8.185.583,535	1008,991	-2,0%	4,14	1008,951	-2,0%	6,14
1453+0.000	-7,70	-2,0%	1009,288	-9,70	-2,0%	1009,328	1009,134	1005,954	775.470,932	8.185.578,001	1009,060	-2,0%	3,73	1009,020	-2,0%	5,73
1454+0.000	-7,70	-2,0%	1009,267	-9,70	-2,0%	1009,307	1009,113	1005,901	775.490,151	8.185.572,466	1009,043	-2,0%	3,50	1009,003	-2,0%	5,50
1455+0.000	-7,70	-2,0%	1009,164	-9,70	-2,0%	1009,204	1009,010	1005,830	775.509,370	8.185.566,932	1008,940	-2,0%	3,50	1008,900	-2,0%	5,50
1456+0.000	-7,70	-2,0%	1009,004	-9,70	-2,0%	1009,044	1008,850	1005,878	775.528,589	8.185.561,397	1008,780	-2,0%	3,50	1008,740	-2,0%	5,50
1457+0.000	-7,70	-2,0%	1008,842	-9,70	-2,0%	1008,882	1008,688	1005,927	775.547,808	8.185.555,862	1008,618	-2,0%	3,50	1008,578	-2,0%	5,50
1458+0.000	-7,70	-2,0%	1008,681	-9,70	-2,0%	1008,721	1008,527	1006,069	775.567,027	8.185.550,328	1008,457	-2,0%	3,50	1008,417	-2,0%	5,50
1459+0.000	-7,70	-2,0%	1008,519	-9,70	-2,0%	1008,559	1008,365	1006,153	775.586,246	8.185.544,793	1008,295	-2,0%	3,50	1008,255	-2,0%	5,50
1460+0.000	-7,70	-2,0%	1008,357	-9,70	-2,0%	1008,397	1008,203	1006,257	775.605,465	8.185.539,259	1008,133	-2,0%	3,50	1008,093	-2,0%	5,50
1461+0.000	-7,70	-2,0%	1008,195	-9,70	-2,0%	1008,235	1008,041	1006,422	775.624,684	8.185.533,724	1007,971	-2,0%	3,50	1007,931	-2,0%	5,50
1462+0.000	-7,70	-2,0%	1008,059	-9,70	-2,0%	1008,099	1007,905	1006,709	775.643,903	8.185.528,190	1007,835	-2,0%	3,50	1007,795	-2,0%	5,50
1463+0.000	-7,70	-2,0%	1008,026	-9,70	-2,0%	1008,066	1007,872	1006,963	775.663,122	8.185.522,655	1007,802	-2,0%	3,50	1007,762	-2,0%	5,50
1464+0.000	-7,70	-2,0%	1008,101	-9,70	-2,0%	1008,141	1007,947	1007,272	775.682,341	8.185.517,120	1007,877	-2,0%	3,50	1007,837	-2,0%	5,50
1465+0.000	-7,70	-2,0%	1008,282	-9,70	-2,0%	1008,322	1008,128	1007,576	775.701,560	8.185.511,586	1008,058	-2,0%	3,50	1008,018	-2,0%	5,50
1466+0.000	-7,70	-2,0%	1008,571	-9,70	-2,0%	1008,611	1008,417	1008,032	775.720,779	8.185.506,051	1008,347	-2,0%	3,50	1008,307	-2,0%	5,50
1467+0.000	-7,70	-2,0%	1008,940	-9,70	-2,0%	1008,980	1008,786	1008,347	775.739,998	8.185.500,517	1008,716	-2,0%	3,50	1008,676	-2,0%	5,50
1468+0.000	-7,70	-2,0%	1009,315	-9,70	-2,0%	1009,355	1009,161	1008,774	775.759,217	8.185.494,982	1009,091	-2,0%	3,50	1009,051	-2,0%	5,50
1469+0.000	-7,70	-2,0%	1009,689	-9,70	-2,0%	1009,729	1009,535	1009,114	775.778,436	8.185.489,448	1009,465	-2,0%	3,50	1009,425	-2,0%	5,50
1470+0.000	-7,70	-2,0%	1010,064	-9,70	-2,0%	1010,104	1009,910	1009,503	775.797,655	8.185.483,913	1009,840	-2,0%	3,50	1009,800	-2,0%	5,50
1471+0.000	-7,70	-2,0%	1010,439	-9,70	-2,0%	1010,479	1010,285	1009,838	775.816,874	8.185.478,379	1010,215	-2,0%	3,50	1010,175	-2,0%	5,50
1472+0.000	-7,70	-2,0%	1010,813	-9,70	-2,0%	1010,853	1010,659	1010,263	775.836,093	8.185.472,844	1010,589	-2,0%	3,50	1010,549	-2,0%	5,50
1473+0.000	-7,70	-2,0%	1011,188	-9,70	-2,0%	1011,228	1011,034	1010,713	775.855,312	8.185.467,309	1010,964	-2,0%	3,50	1010,924	-2,0%	5,50
1474+0.000	-7,70	-2,0%	1011,562	-9,70	-2,0%	1011,602	1011,408	1011,052	775.874,531	8.185.461,775	1011,338	-2,0%	3,50	1011,298	-2,0%	5,50
1475+0.000	-7,70	-2,0%	1011,937	-9,70	-2,0%	1011,977	1011,783	1011,438	775.893,750	8.185.456,240	1011,713	-2,0%	3,50	1011,673	-2,0%	5,50
1476+0.000	-7,70	-2,0%	1012,311	-9,70	-2,0%	1012,351	1012,157	1011,716	775.912,969	8.185.450,706	1012,087	-2,0%	3,50	1012,047	-2,0%	5,50
1477+0.000	-7,70	-2,0%	1012,686	-9,70	-2,0%	1012,726	1012,532	1011,998	775.932,187	8.185.445,171	1012,462	-2,0%	3,50	1012,422	-2,0%	5,50
1478+0.000	-7,70	-2,0%	1013,060	-9,70	-2,0%	1013,100	1012,906	1012,277	775.951,406	8.185.439,637	1012,836	-2,0%	3,50	1012,796	-2,0%	5,50
1479+0.000	-7,70	-2,0%	1013,435	-9,70	-2,0%	1013,475	1013,281	1012,449	775.970,625	8.185.434,102	1013,211	-2,0%	3,50	1013,171	-2,0%	5,50
1480+0.000	-7,70	-2,0%	1013,810	-9,70	-2,0%	1013,850	1013,656	1012,558	775.989,844	8.185.428,568	1013,586	-2,0%	3,50	1013,546	-2,0%	5,50
1481+0.000	-7,70	-2,0%	1014,181	-9,70	-2,0%	1014,221	1014,027	1012,807	776.009,063	8.185.423,033	1013,957	-2,0%	3,50	1013,917	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

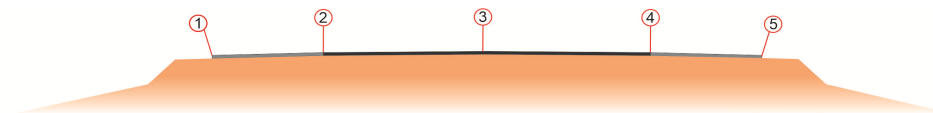
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1482+0.000	-7,70	-2,0%	1014,484	-9,70	-2,0%	1014,524	1014,330	1012,855	776.028,282	8.185.417,498	1014,260	-2,0%	3,50	1014,220	-2,0%	5,50
1483+0.000	-7,70	-2,0%	1014,689	-9,70	-2,0%	1014,729	1014,535	1012,952	776.047,501	8.185.411,964	1014,465	-2,0%	3,50	1014,425	-2,0%	5,50
1484+0.000	-7,70	-2,0%	1014,797	-9,70	-2,0%	1014,837	1014,643	1013,076	776.066,720	8.185.406,429	1014,573	-2,0%	3,50	1014,533	-2,0%	5,50
1485+0.000	-7,70	-2,0%	1014,806	-9,70	-2,0%	1014,846	1014,652	1013,106	776.085,939	8.185.400,895	1014,582	-2,0%	3,50	1014,542	-2,0%	5,50
1486+0.000	-7,70	-2,0%	1014,718	-9,70	-2,0%	1014,758	1014,564	1013,364	776.105,158	8.185.395,360	1014,494	-2,0%	3,50	1014,454	-2,0%	5,50
1487+0.000	-7,70	-2,0%	1014,535	-9,70	-2,0%	1014,575	1014,381	1013,426	776.124,377	8.185.389,826	1014,311	-2,0%	3,50	1014,271	-2,0%	5,50
1488+0.000	-7,70	-2,0%	1014,323	-9,70	-2,0%	1014,363	1014,169	1013,330	776.143,596	8.185.384,291	1014,099	-2,0%	3,50	1014,059	-2,0%	5,50
1489+0.000	-7,70	-2,0%	1014,112	-9,70	-2,0%	1014,152	1013,958	1013,074	776.162,815	8.185.378,756	1013,888	-2,0%	3,50	1013,848	-2,0%	5,50
1490+0.000	-7,70	-2,0%	1013,900	-9,70	-2,0%	1013,940	1013,746	1012,794	776.182,034	8.185.373,222	1013,676	-2,0%	3,50	1013,636	-2,0%	5,50
1491+0.000	-7,70	-2,0%	1013,688	-9,70	-2,0%	1013,728	1013,534	1012,449	776.201,253	8.185.367,687	1013,464	-2,0%	3,50	1013,424	-2,0%	5,50
1492+0.000	-7,70	-2,0%	1013,476	-9,70	-2,0%	1013,516	1013,322	1012,098	776.220,472	8.185.362,153	1013,252	-2,0%	3,50	1013,212	-2,0%	5,50
1493+0.000	-7,70	-2,0%	1013,264	-9,70	-2,0%	1013,304	1013,110	1011,725	776.239,691	8.185.356,618	1013,040	-2,0%	3,50	1013,000	-2,0%	5,50
1494+0.000	-7,70	-2,0%	1013,053	-9,70	-2,0%	1013,093	1012,899	1011,573	776.258,910	8.185.351,084	1012,829	-2,0%	3,50	1012,789	-2,0%	5,50
1495+0.000	-7,70	-2,0%	1012,841	-9,70	-2,0%	1012,881	1012,687	1011,451	776.278,129	8.185.345,549	1012,617	-2,0%	3,50	1012,577	-2,0%	5,50
1496+0.000	-7,70	-2,0%	1012,629	-9,70	-2,0%	1012,669	1012,475	1011,264	776.297,348	8.185.340,015	1012,405	-2,0%	3,50	1012,365	-2,0%	5,50
1497+0.000	-7,70	-2,0%	1012,417	-9,70	-2,0%	1012,457	1012,263	1011,097	776.316,567	8.185.334,480	1012,193	-2,0%	3,50	1012,153	-2,0%	5,50
1498+0.000	-7,70	-2,0%	1012,206	-9,70	-2,0%	1012,246	1012,052	1010,892	776.335,786	8.185.328,945	1011,982	-2,0%	3,50	1011,942	-2,0%	5,50
1499+0.000	-7,70	-2,0%	1011,994	-9,70	-2,0%	1012,034	1011,840	1010,646	776.355,005	8.185.323,411	1011,770	-2,0%	3,50	1011,730	-2,0%	5,50
1500+0.000	-7,70	-2,0%	1011,782	-9,70	-2,0%	1011,822	1011,628	1010,496	776.374,224	8.185.317,876	1011,558	-2,0%	3,50	1011,518	-2,0%	5,50
1501+0.000	-7,70	-2,0%	1011,570	-9,70	-2,0%	1011,610	1011,416	1010,247	776.393,443	8.185.312,342	1011,346	-2,0%	3,50	1011,306	-2,0%	5,50
1502+0.000	-7,70	-2,0%	1011,358	-9,70	-2,0%	1011,398	1011,204	1010,078	776.412,662	8.185.306,807	1011,134	-2,0%	3,50	1011,094	-2,0%	5,50
1503+0.000	-7,70	-2,0%	1011,147	-9,70	-2,0%	1011,187	1010,993	1009,889	776.431,881	8.185.301,273	1010,923	-2,0%	3,50	1010,883	-2,0%	5,50
1504+0.000	-7,70	-2,0%	1010,935	-9,70	-2,0%	1010,975	1010,781	1009,696	776.451,100	8.185.295,738	1010,711	-2,0%	3,50	1010,671	-2,0%	5,50
1505+0.000	-7,70	-2,0%	1010,723	-9,70	-2,0%	1010,763	1010,569	1009,501	776.470,319	8.185.290,203	1010,499	-2,0%	3,50	1010,459	-2,0%	5,50
1506+0.000	-7,70	-2,0%	1010,510	-9,70	-2,0%	1010,550	1010,356	1009,263	776.489,537	8.185.284,669	1010,286	-2,0%	3,50	1010,246	-2,0%	5,50
1507+0.000	-7,70	-2,0%	1010,263	-9,70	-2,0%	1010,303	1010,109	1009,035	776.508,756	8.185.279,134	1010,039	-2,0%	3,50	1009,999	-2,0%	5,50
1508+0.000	-7,70	-2,0%	1009,972	-9,70	-2,0%	1010,012	1009,818	1008,624	776.527,975	8.185.273,600	1009,748	-2,0%	3,50	1009,708	-2,0%	5,50
1509+0.000	-7,70	-2,0%	1009,636	-9,70	-2,0%	1009,676	1009,482	1008,262	776.547,194	8.185.268,065	1009,412	-2,0%	3,50	1009,372	-2,0%	5,50
1510+0.000	-7,70	-2,0%	1009,258	-9,70	-2,0%	1009,298	1009,104	1007,988	776.566,413	8.185.262,531	1009,034	-2,0%	3,50	1008,994	-2,0%	5,50
1511+0.000	-7,70	-2,0%	1008,869	-9,70	-2,0%	1008,909	1008,715	1007,520	776.585,632	8.185.256,996	1008,645	-2,0%	3,50	1008,605	-2,0%	5,50
1512+0.000	-7,70	-2,0%	1008,479	-9,70	-2,0%	1008,519	1008,325	1007,160	776.604,851	8.185.251,462	1008,255	-2,0%	3,50	1008,215	-2,0%	5,50
1513+0.000	-7,70	-2,0%	1008,090	-9,70	-2,0%	1008,130	1007,936	1006,634	776.624,070	8.185.245,927	1007,866	-2,0%	3,50	1007,826	-2,0%	5,50
1514+0.000	-7,70	-2,0%	1007,700	-9,70	-2,0%	1007,740	1007,546	1006,327	776.643,289	8.185.240,392	1007,476	-2,0%	3,50	1007,436	-2,0%	5,50
1515+0.000	-7,70	-2,0%	1007,311	-9,70	-2,0%	1007,351	1007,157	1005,919	776.662,508	8.185.234,858	1007,087	-2,0%	3,50	1007,047	-2,0%	5,50
1516+0.000	-7,70	-2,0%	1006,922	-9,70	-2,0%	1006,962	1006,768	1005,534	776.681,727	8.185.229,323	1006,698	-2,0%	3,50	1006,658	-2,0%	5,50
1517+0.000	-7,70	-2,0%	1006,532	-9,70	-2,0%	1006,572	1006,378	1005,185	776.700,946	8.185.223,789	1006,308	-2,0%	3,50	1006,268	-2,0%	5,50
1518+0.000	-7,70	-2,0%	1006,143	-9,70	-2,0%	1006,183	1005,989	1004,771	776.720,165	8.185.218,254	1005,919	-2,0%	3,50	1005,879	-2,0%	5,50
1519+0.000	-7,70	-2,0%	1005,754	-9,70	-2,0%	1005,794	1005,600	1004,471	776.739,384	8.185.212,720	1005,530	-2,0%	3,50	1005,490	-2,0%	5,50
1520+0.000	-7,70	-2,0%	1005,364	-9,70	-2,0%	1005,404	1005,210	1004,002	776.758,603	8.185.207,185	1005,140	-2,0%	3,50	1005,100	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

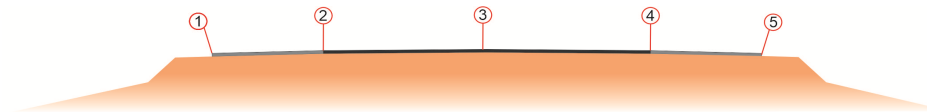
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1521+0.000	-7,70	-2,0%	1004,975	-9,70	-2,0%	1005,015	1004,821	1003,678	776.777,822	8.185.201,651	1004,751	-2,0%	3,50	1004,711	-2,0%	5,50
1522+0.000	-7,70	-2,0%	1004,586	-9,70	-2,0%	1004,626	1004,432	1003,149	776.797,041	8.185.196,116	1004,362	-2,0%	3,50	1004,322	-2,0%	5,50
1523+0.000	-7,70	-2,0%	1004,196	-9,70	-2,0%	1004,236	1004,042	1002,719	776.816,260	8.185.190,581	1003,972	-2,0%	3,50	1003,932	-2,0%	5,50
1524+0.000	-7,70	-2,0%	1003,807	-9,70	-2,0%	1003,847	1003,653	1002,319	776.835,479	8.185.185,047	1003,583	-2,0%	3,50	1003,543	-2,0%	5,50
1525+0.000	-7,70	-2,0%	1003,418	-9,70	-2,0%	1003,458	1003,264	1001,880	776.854,698	8.185.179,512	1003,194	-2,0%	3,50	1003,154	-2,0%	5,50
1526+0.000	-7,70	-2,0%	1003,028	-9,70	-2,0%	1003,068	1002,874	1001,557	776.873,917	8.185.173,978	1002,804	-2,0%	3,50	1002,764	-2,0%	5,50
1527+0.000	-7,70	-2,0%	1002,639	-9,70	-2,0%	1002,679	1002,485	1001,213	776.893,136	8.185.168,443	1002,415	-2,0%	3,50	1002,375	-2,0%	5,50
1528+0.000	-7,70	-2,0%	1002,249	-9,70	-2,0%	1002,289	1002,095	1000,673	776.912,355	8.185.162,909	1002,025	-2,0%	3,50	1001,985	-2,0%	5,50
1529+0.000	-7,70	-2,0%	1001,860	-9,70	-2,0%	1001,900	1001,706	1000,202	776.931,574	8.185.157,374	1001,636	-2,0%	3,50	1001,596	-2,0%	5,50
1530+0.000	-7,70	-2,0%	1001,471	-9,70	-2,0%	1001,511	1001,317	999,888	776.950,793	8.185.151,839	1001,247	-2,0%	3,50	1001,207	-2,0%	5,50
1531+0.000	-7,70	-2,0%	1001,081	-9,70	-2,0%	1001,121	1000,927	999,486	776.970,012	8.185.146,305	1000,857	-2,0%	3,50	1000,817	-2,0%	5,50
1532+0.000	-7,70	-2,0%	1000,692	-9,70	-2,0%	1000,732	1000,538	999,138	776.989,231	8.185.140,770	1000,468	-2,0%	3,50	1000,428	-2,0%	5,50
1533+0.000	-7,70	-2,0%	1000,303	-9,70	-2,0%	1000,343	1000,149	998,686	777.008,450	8.185.135,236	1000,079	-2,0%	3,50	1000,039	-2,0%	5,50
1534+0.000	-7,70	-2,0%	999,913	-9,70	-2,0%	999,953	999,759	998,280	777.027,669	8.185.129,701	999,689	-2,0%	3,50	999,649	-2,0%	5,50
1535+0.000	-7,70	-2,0%	999,524	-9,70	-2,0%	999,564	999,370	997,946	777.046,888	8.185.124,167	999,300	-2,0%	3,50	999,260	-2,0%	5,50
1536+0.000	-7,70	-2,0%	999,144	-9,70	-2,0%	999,184	998,990	997,507	777.066,106	8.185.118,632	998,920	-2,0%	3,50	998,880	-2,0%	5,50
1537+0.000	-7,70	-2,0%	998,778	-9,70	-2,0%	998,818	998,624	997,279	777.085,325	8.185.113,098	998,554	-2,0%	3,50	998,514	-2,0%	5,50
1538+0.000	-7,70	-2,0%	998,426	-9,70	-2,0%	998,466	998,272	997,022	777.104,544	8.185.107,563	998,202	-2,0%	3,50	998,162	-2,0%	5,50
1539+0.000	-7,70	-2,0%	998,079	-9,70	-2,0%	998,119	997,925	996,747	777.123,763	8.185.102,028	997,855	-2,0%	3,50	997,815	-2,0%	5,50
1540+0.000	-7,70	-2,0%	997,732	-9,70	-2,0%	997,772	997,578	996,337	777.142,982	8.185.096,494	997,508	-2,0%	3,50	997,468	-2,0%	5,50
1541+0.000	-7,70	-2,0%	997,385	-9,70	-2,0%	997,425	997,231	995,947	777.162,201	8.185.090,959	997,161	-2,0%	3,50	997,121	-2,0%	5,50
1542+0.000	-7,70	-2,0%	997,037	-9,70	-2,0%	997,077	996,883	995,495	777.181,420	8.185.085,425	996,813	-2,0%	3,50	996,773	-2,0%	5,50
1543+0.000	-7,70	-2,0%	996,690	-9,70	-2,0%	996,730	996,536	995,040	777.200,639	8.185.079,890	996,466	-2,0%	3,50	996,426	-2,0%	5,50
1544+0.000	-7,70	-2,0%	996,343	-9,70	-2,0%	996,383	996,189	994,682	777.219,858	8.185.074,356	996,119	-2,0%	3,50	996,079	-2,0%	5,50
1545+0.000	-7,70	-2,0%	995,996	-9,70	-2,0%	996,036	995,842	994,376	777.239,077	8.185.068,821	995,772	-2,0%	3,50	995,732	-2,0%	5,50
1546+0.000	-7,70	-2,0%	995,649	-9,70	-2,0%	995,689	995,495	993,975	777.258,296	8.185.063,287	995,425	-2,0%	3,50	995,385	-2,0%	5,50
1547+0.000	-7,70	-2,0%	995,301	-9,70	-2,0%	995,341	995,147	993,705	777.277,515	8.185.057,752	995,077	-2,0%	3,50	995,037	-2,0%	5,50
1548+0.000	-7,70	-2,0%	994,954	-9,70	-2,0%	994,994	994,800	993,390	777.296,734	8.185.052,217	994,730	-2,0%	3,50	994,690	-2,0%	5,50
1549+0.000	-7,70	-2,0%	994,607	-9,70	-2,0%	994,647	994,453	993,003	777.315,953	8.185.046,683	994,383	-2,0%	3,50	994,343	-2,0%	5,50
1550+0.000	-7,70	-2,0%	994,260	-9,70	-2,0%	994,300	994,106	992,668	777.335,172	8.185.041,148	994,036	-2,0%	3,50	993,996	-2,0%	5,50
1551+0.000	-7,70	-2,0%	993,912	-9,70	-2,0%	993,952	993,758	992,377	777.354,391	8.185.035,614	993,688	-2,0%	3,50	993,648	-2,0%	5,50
1552+0.000	-7,70	-2,0%	993,565	-9,70	-2,0%	993,605	993,411	992,132	777.373,610	8.185.030,079	993,341	-2,0%	3,50	993,301	-2,0%	5,50
1553+0.000	-7,70	-2,0%	993,238	-9,70	-2,0%	993,278	993,084	991,896	777.392,829	8.185.024,545	993,014	-2,0%	3,50	992,974	-2,0%	5,50
1554+0.000	-7,70	-2,0%	992,965	-9,70	-2,0%	993,005	992,811	991,542	777.412,048	8.185.019,010	992,741	-2,0%	3,50	992,701	-2,0%	5,50
1555+0.000	-7,70	-2,0%	992,745	-9,70	-2,0%	992,785	992,591	991,351	777.431,267	8.185.013,475	992,521	-2,0%	3,50	992,481	-2,0%	5,50
1556+0.000	-7,70	-2,0%	992,579	-9,70	-2,0%	992,619	992,425	991,206	777.450,486	8.185.007,941	992,355	-2,0%	3,50	992,315	-2,0%	5,50
1557+0.000	-7,70	-2,0%	992,446	-9,70	-2,0%	992,486	992,292	991,172	777.469,705	8.185.002,406	992,222	-2,0%	3,50	992,182	-2,0%	5,50
1558+0.000	-7,70	-2,0%	992,313	-9,70	-2,0%	992,353	992,159	991,006	777.488,924	8.184.996,872	992,089	-2,0%	3,50	992,049	-2,0%	5,50
1559+0.000	-7,70	-2,0%	992,181	-9,70	-2,0%	992,221	992,027	990,900	777.508,143	8.184.991,337	991,957	-2,0%	3,50	991,917	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

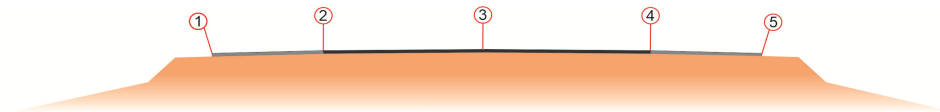
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1560+0.000	-7,70	-2,0%	992,048	-9,70	-2,0%	992,088	991,894	990,883	777.527,362	8.184.985,803	991,824	-2,0%	3,50	991,784	-2,0%	5,50
1561+0.000	-7,70	-2,0%	991,916	-9,70	-2,0%	991,956	991,762	990,846	777.546,581	8.184.980,268	991,692	-2,0%	3,50	991,652	-2,0%	5,50
1562+0.000	-7,70	-2,0%	991,783	-9,70	-2,0%	991,823	991,629	990,854	777.565,800	8.184.974,734	991,559	-2,0%	3,50	991,519	-2,0%	5,50
1563+0.000	-7,70	-2,0%	991,650	-9,70	-2,0%	991,690	991,496	990,893	777.585,019	8.184.969,199	991,426	-2,0%	3,50	991,386	-2,0%	5,50
1564+0.000	-7,70	-2,0%	991,518	-9,70	-2,0%	991,558	991,364	990,907	777.604,238	8.184.963,664	991,294	-2,0%	3,50	991,254	-2,0%	5,50
1565+0.000	-7,70	-2,0%	991,385	-9,70	-2,0%	991,425	991,231	991,064	777.623,456	8.184.958,130	991,161	-2,0%	3,50	991,121	-2,0%	5,50
1566+0.000	-7,70	-2,0%	991,253	-9,70	-2,0%	991,293	991,099	991,306	777.642,675	8.184.952,595	991,029	-2,0%	3,50	990,989	-2,0%	5,50
1567+0.000	-7,70	-2,0%	991,120	-9,70	-2,0%	991,160	990,966	991,561	777.661,894	8.184.947,061	990,896	-2,0%	3,50	990,856	-2,0%	5,50
1568+0.000	-7,70	-2,0%	990,988	-9,70	-2,0%	991,028	990,834	991,853	777.681,113	8.184.941,526	990,764	-2,0%	3,50	990,724	-2,0%	5,50
1569+0.000	-7,70	-2,0%	990,855	-9,70	-2,0%	990,895	990,701	991,831	777.700,332	8.184.935,992	990,631	-2,0%	3,50	990,591	-2,0%	5,50
1570+0.000	-7,70	-2,0%	990,723	-9,70	-2,0%	990,763	990,569	992,091	777.719,551	8.184.930,457	990,499	-2,0%	3,50	990,459	-2,0%	5,50
1571+0.000	-7,70	-2,0%	990,590	-9,70	-2,0%	990,630	990,436	991,950	777.738,770	8.184.924,923	990,366	-2,0%	3,50	990,326	-2,0%	5,50
1572+0.000	-7,70	-2,0%	990,458	-9,70	-2,0%	990,498	990,304	991,709	777.757,989	8.184.919,388	990,234	-2,0%	3,50	990,194	-2,0%	5,50
1573+0.000	-7,70	-2,0%	990,325	-9,70	-2,0%	990,365	990,171	991,243	777.777,208	8.184.913,853	990,101	-2,0%	3,50	990,061	-2,0%	5,50
1574+0.000	-7,70	-2,0%	990,193	-9,70	-2,0%	990,233	990,039	990,902	777.796,427	8.184.908,319	989,969	-2,0%	3,50	989,929	-2,0%	5,50
1575+0.000	-7,70	-2,0%	990,060	-9,70	-2,0%	990,100	989,906	990,206	777.815,646	8.184.902,784	989,836	-2,0%	3,50	989,796	-2,0%	5,50
1576+0.000	-7,70	-2,0%	989,928	-9,70	-2,0%	989,968	989,774	989,328	777.834,865	8.184.897,250	989,704	-2,0%	3,50	989,664	-2,0%	5,50
1577+0.000	-7,70	-2,0%	989,795	-9,70	-2,0%	989,835	989,641	988,437	777.854,084	8.184.891,715	989,571	-2,0%	3,50	989,531	-2,0%	5,50
1578+0.000	-7,70	-2,0%	989,663	-9,70	-2,0%	989,703	989,509	987,662	777.873,303	8.184.886,181	989,439	-2,0%	3,50	989,399	-2,0%	5,50
1579+0.000	-7,70	-2,0%	989,530	-9,70	-2,0%	989,570	989,376	987,033	777.892,522	8.184.880,646	989,306	-2,0%	3,50	989,266	-2,0%	5,50
1580+0.000	-7,70	-2,0%	989,398	-9,70	-2,0%	989,438	989,244	986,578	777.911,741	8.184.875,111	989,174	-2,0%	3,50	989,134	-2,0%	5,50
1581+0.000	-7,70	-2,0%	989,265	-9,70	-2,0%	989,305	989,111	986,053	777.930,960	8.184.869,577	989,041	-2,0%	3,50	989,001	-2,0%	5,50
1582+0.000	-7,70	-2,0%	989,133	-9,70	-2,0%	989,173	988,979	985,776	777.950,179	8.184.864,042	988,909	-2,0%	3,50	988,869	-2,0%	5,50
1583+0.000	-7,70	-2,0%	989,000	-9,70	-2,0%	989,040	988,846	985,398	777.969,398	8.184.858,508	988,776	-2,0%	3,50	988,736	-2,0%	5,50
1584+0.000	-7,70	-2,0%	988,869	-9,70	-2,0%	988,909	988,715	985,278	777.988,617	8.184.852,973	988,645	-2,0%	3,50	988,605	-2,0%	5,50
1585+0.000	-7,70	-2,0%	988,803	-9,70	-2,0%	988,843	988,649	985,229	778.007,836	8.184.847,439	988,579	-2,0%	3,50	988,539	-2,0%	5,50
1586+0.000	-7,70	-2,0%	988,837	-9,70	-2,0%	988,877	988,683	985,256	778.027,055	8.184.841,904	988,613	-2,0%	3,50	988,573	-2,0%	5,50
1587+0.000	-7,70	-2,0%	988,969	-9,70	-2,0%	989,009	988,815	985,572	778.046,274	8.184.836,370	988,745	-2,0%	3,50	988,705	-2,0%	5,50
1588+0.000	-7,70	-2,0%	989,200	-9,70	-2,0%	989,240	989,046	985,984	778.065,493	8.184.830,835	988,976	-2,0%	3,50	988,936	-2,0%	5,50
1589+0.000	-7,70	-2,0%	989,465	-9,70	-2,0%	989,505	989,311	986,548	778.084,712	8.184.825,300	989,241	-2,0%	3,50	989,201	-2,0%	5,50
1590+0.000	-7,70	-2,0%	989,730	-9,70	-2,0%	989,770	989,576	987,025	778.103,931	8.184.819,766	989,506	-2,0%	3,50	989,466	-2,0%	5,50
1591+0.000	-7,70	-2,0%	989,995	-9,70	-2,0%	990,035	989,841	987,710	778.123,150	8.184.814,231	989,771	-2,0%	3,50	989,731	-2,0%	5,50
1592+0.000	-7,70	-2,0%	990,260	-9,70	-2,0%	990,300	990,106	988,420	778.142,369	8.184.808,697	990,036	-2,0%	3,50	989,996	-2,0%	5,50
1593+0.000	-7,70	-2,0%	990,525	-9,70	-2,0%	990,565	990,371	989,170	778.161,588	8.184.803,162	990,301	-2,0%	3,50	990,261	-2,0%	5,50
1594+0.000	-7,70	-2,0%	990,790	-9,70	-2,0%	990,830	990,636	990,006	778.180,806	8.184.797,628	990,566	-2,0%	3,50	990,526	-2,0%	5,50
1595+0.000	-7,70	-2,0%	991,055	-9,70	-2,0%	991,095	990,901	990,756	778.200,025	8.184.792,093	990,831	-2,0%	3,50	990,791	-2,0%	5,50
1596+0.000	-7,70	-2,0%	991,319	-9,70	-2,0%	991,359	991,165	991,630	778.219,244	8.184.786,558	991,095	-2,0%	3,50	991,055	-2,0%	5,50
1597+0.000	-7,70	-2,0%	991,584	-9,70	-2,0%	991,624	991,430	992,287	778.238,463	8.184.781,024	991,360	-2,0%	3,50	991,320	-2,0%	5,50
1598+0.000	-7,70	-2,0%	991,849	-9,70	-2,0%	991,889	991,695	993,076	778.257,682	8.184.775,489	991,625	-2,0%	3,50	991,585	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

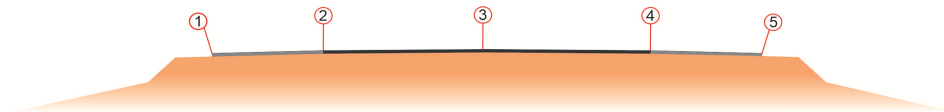
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1599+0.000	-7,70	-2,0%	992,114	-9,70	-2,0%	992,154	991,960	993,601	778.276,901	8.184.769,955	991,890	-2,0%	3,50	991,850	-2,0%	5,50
1600+0.000	-7,70	-2,0%	992,379	-9,70	-2,0%	992,419	992,225	993,860	778.296,120	8.184.764,420	992,155	-2,0%	3,50	992,115	-2,0%	5,50
1601+0.000	-7,70	-2,0%	992,644	-9,70	-2,0%	992,684	992,490	994,004	778.315,339	8.184.758,886	992,420	-2,0%	3,50	992,380	-2,0%	5,50
1602+0.000	-7,70	-2,0%	992,909	-9,70	-2,0%	992,949	992,755	993,984	778.334,558	8.184.753,351	992,685	-2,0%	3,50	992,645	-2,0%	5,50
1603+0.000	-7,70	-2,0%	993,174	-9,70	-2,0%	993,214	993,020	993,543	778.353,777	8.184.747,817	992,950	-2,0%	3,50	992,910	-2,0%	5,50
1604+0.000	-7,70	-2,0%	993,439	-9,70	-2,0%	993,479	993,285	993,099	778.372,996	8.184.742,282	993,215	-2,0%	3,50	993,175	-2,0%	5,50
1605+0.000	-7,70	-2,0%	993,688	-9,70	-2,0%	993,728	993,534	992,442	778.392,215	8.184.736,747	993,464	-2,0%	3,50	993,424	-2,0%	5,50
1606+0.000	-7,70	-2,0%	993,847	-9,70	-2,0%	993,887	993,693	991,870	778.411,434	8.184.731,213	993,623	-2,0%	3,50	993,583	-2,0%	5,50
1607+0.000	-7,70	-2,0%	993,905	-9,70	-2,0%	993,945	993,751	991,379	778.430,653	8.184.725,678	993,681	-2,0%	3,50	993,641	-2,0%	5,50
1608+0.000	-7,70	-2,0%	993,862	-9,70	-2,0%	993,902	993,708	990,860	778.449,872	8.184.720,144	993,638	-2,0%	3,50	993,598	-2,0%	5,50
1609+0.000	-7,70	-2,0%	993,736	-9,70	-2,0%	993,776	993,582	990,367	778.469,091	8.184.714,609	993,512	-2,0%	3,50	993,472	-2,0%	5,50
1610+0.000	-7,70	-2,0%	993,599	-9,70	-2,0%	993,639	993,445	990,068	778.488,310	8.184.709,075	993,375	-2,0%	3,50	993,335	-2,0%	5,50
1611+0.000	-7,70	-2,0%	993,462	-9,70	-2,0%	993,502	993,308	990,106	778.507,529	8.184.703,540	993,238	-2,0%	3,50	993,198	-2,0%	5,50
1612+0.000	-7,70	-2,0%	993,325	-9,70	-2,0%	993,365	993,171	990,141	778.526,748	8.184.698,006	993,101	-2,0%	3,50	993,061	-2,0%	5,50
1613+0.000	-7,70	-2,0%	993,189	-9,70	-2,0%	993,229	993,035	990,242	778.545,967	8.184.692,471	992,965	-2,0%	3,50	992,925	-2,0%	5,50
1614+0.000	-7,70	-2,0%	993,052	-9,70	-2,0%	993,092	992,898	990,341	778.565,186	8.184.686,936	992,828	-2,0%	3,50	992,788	-2,0%	5,50
1615+0.000	-7,70	-2,0%	992,918	-9,70	-2,0%	992,958	992,764	990,624	778.584,405	8.184.681,402	992,694	-2,0%	3,50	992,654	-2,0%	5,50
1616+0.000	-7,70	-2,0%	992,857	-9,70	-2,0%	992,897	992,703	990,789	778.603,624	8.184.675,867	992,633	-2,0%	3,50	992,593	-2,0%	5,50
1617+0.000	-7,70	-2,0%	992,901	-9,70	-2,0%	992,941	992,747	991,285	778.622,843	8.184.670,333	992,677	-2,0%	3,50	992,637	-2,0%	5,50
1618+0.000	-7,70	-2,0%	993,051	-9,70	-2,0%	993,091	992,897	991,503	778.642,062	8.184.664,798	992,827	-2,0%	3,50	992,787	-2,0%	5,50
1619+0.000	-7,70	-2,0%	993,306	-9,70	-2,0%	993,346	993,152	991,988	778.661,281	8.184.659,264	993,082	-2,0%	3,50	993,042	-2,0%	5,50
1620+0.000	-7,70	-2,0%	993,667	-9,70	-2,0%	993,707	993,513	992,404	778.680,500	8.184.653,729	993,443	-2,0%	3,50	993,403	-2,0%	5,50
1621+0.000	-7,70	-2,0%	994,134	-9,70	-2,0%	994,174	993,980	992,848	778.699,719	8.184.648,194	993,910	-2,0%	3,50	993,870	-2,0%	5,50
1622+0.000	-7,70	-2,0%	994,706	-9,70	-2,0%	994,746	994,552	993,790	778.718,938	8.184.642,660	994,482	-2,0%	3,50	994,442	-2,0%	5,50
1623+0.000	-7,70	-2,0%	995,383	-9,70	-2,0%	995,423	995,229	994,510	778.738,156	8.184.637,125	995,159	-2,0%	3,50	995,119	-2,0%	5,50
1624+0.000	-7,70	-2,0%	996,166	-9,70	-2,0%	996,206	996,012	995,098	778.757,375	8.184.631,591	995,942	-2,0%	3,50	995,902	-2,0%	5,50
1625+0.000	-7,70	-2,0%	997,052	-9,70	-2,0%	997,092	996,898	995,663	778.776,594	8.184.626,056	996,828	-2,0%	3,50	996,788	-2,0%	5,50
1626+0.000	-7,70	-2,0%	997,971	-9,70	-2,0%	998,011	997,817	996,557	778.795,813	8.184.620,522	997,747	-2,0%	3,50	997,707	-2,0%	5,50
1627+0.000	-7,70	-2,0%	998,889	-9,70	-2,0%	998,929	998,735	997,217	778.815,032	8.184.614,987	998,665	-2,0%	3,50	998,625	-2,0%	5,50
1628+0.000	-7,70	-2,0%	999,808	-9,70	-2,0%	999,848	999,654	998,101	778.834,251	8.184.609,453	999,584	-2,0%	3,50	999,544	-2,0%	5,50
1629+0.000	-7,70	-2,0%	1000,726	-9,70	-2,0%	1000,766	1000,572	999,441	778.853,470	8.184.603,918	1000,502	-2,0%	3,50	1000,462	-2,0%	5,50
1630+0.000	-7,70	-2,0%	1001,645	-9,70	-2,0%	1001,685	1001,491	1000,113	778.872,689	8.184.598,383	1001,421	-2,0%	3,50	1001,381	-2,0%	5,50
1631+0.000	-7,70	-2,0%	1002,563	-9,70	-2,0%	1002,603	1002,409	1000,784	778.891,908	8.184.592,849	1002,339	-2,0%	3,50	1002,299	-2,0%	5,50
1632+0.000	-7,70	-2,0%	1003,482	-9,70	-2,0%	1003,522	1003,328	1001,719	778.911,127	8.184.587,314	1003,258	-2,0%	3,50	1003,218	-2,0%	5,50
1633+0.000	-7,70	-2,0%	1004,401	-9,70	-2,0%	1004,441	1004,247	1002,623	778.930,346	8.184.581,780	1004,177	-2,0%	3,50	1004,137	-2,0%	5,50
1634+0.000	-7,70	-2,0%	1005,319	-9,70	-2,0%	1005,359	1005,165	1004,285	778.949,565	8.184.576,245	1005,095	-2,0%	3,50	1005,055	-2,0%	5,50
1635+0.000	-7,70	-2,0%	1006,238	-9,70	-2,0%	1006,278	1006,084	1004,683	778.968,784	8.184.570,711	1006,014	-2,0%	3,50	1005,974	-2,0%	5,50
1636+0.000	-7,70	-2,0%	1007,156	-9,70	-2,0%	1007,196	1007,002	1005,895	778.988,003	8.184.565,176	1006,932	-2,0%	3,50	1006,892	-2,0%	5,50
1637+0.000	-7,70	-2,0%	1008,075	-9,70	-2,0%	1008,115	1007,921	1006,758	779.007,222	8.184.559,642	1007,851	-2,0%	3,50	1007,811	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

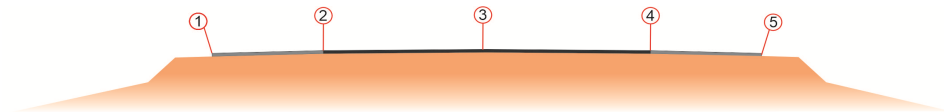
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1638+0.000	-7,70	-2,0%	1008,993	-9,70	-2,0%	1009,033	1008,839	1007,459	779.026,441	8.184.554,107	1008,769	-2,0%	3,50	1008,729	-2,0%	5,50
1639+0.000	-7,70	-2,0%	1009,912	-9,70	-2,0%	1009,952	1009,758	1008,095	779.045,660	8.184.548,572	1009,688	-2,0%	3,50	1009,648	-2,0%	5,50
1640+0.000	-7,70	-2,0%	1010,830	-9,70	-2,0%	1010,870	1010,676	1009,556	779.064,879	8.184.543,038	1010,606	-2,0%	3,50	1010,566	-2,0%	5,50
1641+0.000	-7,70	-2,0%	1011,749	-9,70	-2,0%	1011,789	1011,595	1010,063	779.084,098	8.184.537,503	1011,525	-2,0%	3,50	1011,485	-2,0%	5,50
1642+0.000	-7,70	-2,0%	1012,667	-9,70	-2,0%	1012,707	1012,513	1011,168	779.103,317	8.184.531,969	1012,443	-2,0%	3,50	1012,403	-2,0%	5,50
1643+0.000	-7,70	-2,0%	1013,585	-9,70	-2,0%	1013,625	1013,431	1012,276	779.122,536	8.184.526,434	1013,339	-2,0%	3,50	1013,299	-2,0%	5,50
1644+0.000	-7,70	-2,0%	1014,503	-9,70	-2,0%	1014,543	1014,349	1013,015	779.141,755	8.184.520,899	1014,165	-2,0%	3,50	1014,125	-2,0%	5,50
1645+0.000	-7,70	-2,0%	1015,421	-9,70	-2,0%	1015,461	1015,267	1014,681	779.160,974	8.184.515,364	1014,918	-2,0%	3,50	1014,878	-2,0%	5,50
1646+0.000	-7,70	-2,0%	1016,339	-9,70	-2,0%	1016,379	1016,185	1015,391	779.180,193	8.184.509,829	1015,599	-2,0%	3,50	1015,559	-2,0%	5,50
1647+0.000	-7,70	-2,0%	1017,257	-9,70	-2,0%	1017,297	1017,103	1016,103	779.199,412	8.184.503,686	1016,208	-2,0%	3,50	1016,168	-2,0%	5,50
1648+0.000	-7,70	-2,0%	1018,175	-9,70	-2,0%	1018,215	1018,021	1016,803	779.218,631	8.184.497,693	1016,744	-2,0%	3,50	1016,704	-2,0%	5,50
1649+0.000	-7,70	-2,0%	1019,093	-9,70	-2,0%	1019,133	1018,939	1017,505	779.237,850	8.184.491,574	1017,208	-2,0%	3,50	1017,168	-2,0%	5,50
1650+0.000	-7,70	-2,0%	1020,011	-9,70	-2,0%	1020,051	1019,857	1018,207	779.256,353	8.184.485,327	1017,599	-2,0%	3,50	1017,559	-2,0%	5,50
1651+0.000	-7,70	-2,0%	1020,929	-9,70	-2,0%	1020,969	1020,775	1018,909	779.275,310	8.184.478,954	1017,918	-2,0%	3,50	1017,878	-2,0%	5,50
1652+0.000	-7,70	-2,0%	1021,847	-9,70	-2,0%	1021,887	1021,693	1019,611	779.294,224	8.184.472,454	1018,165	-2,0%	3,50	1018,125	-2,0%	5,50
1653+0.000	-7,70	-2,0%	1022,765	-9,70	-2,0%	1022,805	1022,611	1020,313	779.313,095	8.184.466,829	1018,340	-2,0%	3,50	1018,300	-2,0%	5,50
1654+0.000	-7,70	-2,0%	1023,683	-9,70	-2,0%	1023,723	1023,529	1021,015	779.331,921	8.184.459,078	1018,442	-2,0%	3,50	1018,402	-2,0%	5,50
1655+0.000	-7,70	-2,0%	1024,601	-9,70	-2,0%	1024,641	1024,447	1021,717	779.350,705	8.184.452,209	1018,472	-2,0%	3,50	1018,432	-2,0%	5,50
1656+0.000	-7,70	-2,0%	1025,519	-9,70	-2,0%	1025,559	1025,365	1022,419	779.369,478	8.184.445,313	1018,429	-2,0%	3,50	1018,389	-2,0%	5,50
1657+0.000	-7,70	-2,0%	1026,437	-9,70	-2,0%	1026,477	1026,283	1023,121	779.388,252	8.184.438,417	1018,315	-2,0%	3,50	1018,275	-2,0%	5,50
1658+0.000	-7,70	-2,0%	1027,355	-9,70	-2,0%	1027,395	1027,201	1023,823	779.407,025	8.184.431,521	1018,128	-2,0%	3,50	1018,088	-2,0%	5,50
1659+0.000	-7,70	-2,0%	1028,273	-9,70	-2,0%	1028,313	1028,119	1024,525	779.425,799	8.184.424,625	1017,868	-2,0%	3,50	1017,828	-2,0%	5,50
1660+0.000	-7,70	-2,0%	1029,191	-9,70	-2,0%	1029,231	1029,037	1025,227	779.444,572	8.184.417,729	1017,536	-2,0%	3,50	1017,496	-2,0%	5,50
1661+0.000	-7,70	-2,0%	1030,109	-9,70	-2,0%	1030,149	1029,955	1025,929	779.463,346	8.184.410,833	1017,132	-2,0%	3,50	1017,092	-2,0%	5,50
1662+0.000	-7,70	-2,0%	1031,027	-9,70	-2,0%	1031,067	1030,873	1026,631	779.482,119	8.184.403,936	1016,691	-2,0%	3,50	1016,651	-2,0%	5,50
1663+0.000	-7,70	-2,0%	1031,945	-9,70	-2,0%	1031,985	1031,791	1027,333	779.500,893	8.184.397,040	1016,250	-2,0%	3,50	1016,210	-2,0%	5,50
1664+0.000	-7,70	-2,0%	1032,863	-9,70	-2,0%	1032,903	1032,709	1028,035	779.519,666	8.184.390,144	1015,809	-2,0%	3,50	1015,769	-2,0%	5,50
1665+0.000	-7,70	-2,0%	1033,781	-9,70	-2,0%	1033,821	1033,627	1028,737	779.538,440	8.184.383,248	1015,369	-2,0%	3,50	1015,329	-2,0%	5,50
1666+0.000	-7,70	-2,0%	1034,699	-9,70	-2,0%	1034,739	1034,545	1029,439	779.557,213	8.184.376,352	1014,928	-2,0%	3,50	1014,888	-2,0%	5,50
1667+0.000	-7,70	-2,0%	1035,617	-9,70	-2,0%	1035,657	1035,463	1030,141	779.575,987	8.184.369,456	1014,487	-2,0%	3,50	1014,447	-2,0%	5,50
1668+0.000	-7,70	-2,0%	1036,535	-9,70	-2,0%	1036,575	1036,381	1030,843	779.594,760	8.184.362,560	1014,046	-2,0%	3,50	1014,006	-2,0%	5,50
1669+0.000	-7,70	-2,0%	1037,453	-9,70	-2,0%	1037,493	1037,299	1031,545	779.613,533	8.184.355,664	1013,605	-2,0%	3,50	1013,565	-2,0%	5,50
1670+0.000	-7,70	-2,0%	1038,371	-9,70	-2,0%	1038,411	1038,217	1032,247	779.632,307	8.184.348,768	1013,164	-2,0%	3,50	1013,124	-2,0%	5,50
1671+0.000	-7,70	-2,0%	1039,289	-9,70	-2,0%	1039,329	1039,135	1032,949	779.651,080	8.184.341,872	1012,723	-2,0%	3,50	1012,683	-2,0%	5,50
1672+0.000	-7,70	-2,0%	1040,207	-9,70	-2,0%	1040,247	1040,053	1033,651	779.669,854	8.184.334,976	1012,282	-2,0%	3,50	1012,242	-2,0%	5,50
1673+0.000	-7,70	-2,0%	1041,125	-9,70	-2,0%	1041,165	1040,971	1034,353	779.688,627	8.184.328,079	1011,841	-2,0%	3,50	1011,801	-2,0%	5,50
1674+0.000	-7,70	-2,0%	1042,043	-9,70	-2,0%	1042,083	1041,889	1035,055	779.707,401	8.184.321,183	1011,400	-2,0%	3,50	1011,360	-2,0%	5,50
1675+0.000	-7,70	-2,0%	1042,961	-9,70	-2,0%	1042,101	1041,907	1035,757	779.726,174	8.184.314,287	1010,959	-2,0%	3,50	1010,919	-2,0%	5,50
1676+0.000	-7,70	-2,0%	1043,879	-9,70	-2,0%	1043,919	1043,725	1036,459	779.744,948	8.184.307,391	1010,518	-2,0%	3,50	1010,478	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

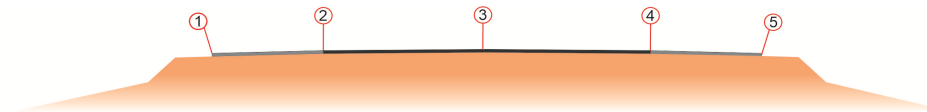
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1677+0.000	-7,70	-2,0%	1010,301	-9,70	-2,0%	1010,341	1010,147	1008,814	779.763,721	8.184.300,495	1010,077	-2,0%	3,50	1010,037	-2,0%	5,50
1678+0.000	-7,70	-2,0%	1009,860	-9,70	-2,0%	1009,900	1009,706	1008,738	779.782,495	8.184.293,599	1009,636	-2,0%	3,50	1009,596	-2,0%	5,50
1679+0.000	-7,70	-2,0%	1009,420	-9,70	-2,0%	1009,460	1009,266	1007,105	779.801,268	8.184.286,703	1009,196	-2,0%	3,50	1009,156	-2,0%	5,50
1680+0.000	-7,70	-2,0%	1008,988	-9,70	-2,0%	1009,028	1008,834	1006,431	779.820,042	8.184.279,807	1008,764	-2,0%	3,50	1008,724	-2,0%	5,50
1681+0.000	-7,70	-2,0%	1008,613	-9,70	-2,0%	1008,653	1008,459	1005,911	779.838,815	8.184.272,910	1008,389	-2,0%	3,50	1008,349	-2,0%	5,50
1682+0.000	-7,70	-2,0%	1008,304	-9,70	-2,0%	1008,344	1008,150	1005,235	779.857,589	8.184.266,014	1008,080	-2,0%	3,50	1008,040	-2,0%	5,50
1683+0.000	-7,70	-2,0%	1008,060	-9,70	-2,0%	1008,100	1007,906	1004,878	779.876,362	8.184.259,118	1007,836	-2,0%	3,50	1007,796	-2,0%	5,50
1684+0.000	-7,70	-2,0%	1007,872	-9,70	-2,0%	1007,912	1007,718	1004,650	779.895,136	8.184.252,222	1007,648	-2,0%	3,50	1007,608	-2,0%	5,50
1685+0.000	-7,70	-2,0%	1007,691	-9,70	-2,0%	1007,731	1007,537	1004,157	779.913,909	8.184.245,326	1007,467	-2,0%	3,50	1007,427	-2,0%	5,50
1686+0.000	-7,70	-2,0%	1007,510	-9,70	-2,0%	1007,550	1007,356	1004,129	779.932,683	8.184.238,430	1007,286	-2,0%	3,50	1007,246	-2,0%	5,50
1687+0.000	-7,70	-2,0%	1007,329	-9,70	-2,0%	1007,369	1007,175	1004,228	779.951,456	8.184.231,534	1007,105	-2,0%	3,50	1007,065	-2,0%	5,50
1688+0.000	-7,70	-2,0%	1007,148	-9,70	-2,0%	1007,188	1006,994	1003,871	779.970,230	8.184.224,638	1006,924	-2,0%	3,50	1006,884	-2,0%	5,50
1689+0.000	-7,70	-2,0%	1006,967	-9,70	-2,0%	1007,007	1006,813	1003,810	779.989,003	8.184.217,742	1006,743	-2,0%	3,50	1006,703	-2,0%	5,50
1690+0.000	-7,70	-2,0%	1006,786	-9,70	-2,0%	1006,826	1006,632	1004,008	780.007,777	8.184.210,846	1006,562	-2,0%	3,50	1006,522	-2,0%	5,50
1691+0.000	-7,70	-2,0%	1006,605	-9,70	-2,0%	1006,645	1006,451	1004,136	780.026,550	8.184.203,949	1006,381	-2,0%	3,50	1006,341	-2,0%	5,50
1692+0.000	-7,70	-2,0%	1006,424	-9,70	-2,0%	1006,464	1006,270	1004,306	780.045,324	8.184.197,053	1006,200	-2,0%	3,50	1006,160	-2,0%	5,50
1693+0.000	-7,70	-2,0%	1006,272	-9,70	-2,0%	1006,312	1006,118	1004,562	780.064,097	8.184.190,157	1006,048	-2,0%	3,50	1006,008	-2,0%	5,50
1694+0.000	-7,70	-2,0%	1006,253	-9,70	-2,0%	1006,293	1006,099	1004,698	780.082,871	8.184.183,261	1006,029	-2,0%	3,50	1005,989	-2,0%	5,50
1695+0.000	-7,70	-2,0%	1006,375	-9,70	-2,0%	1006,415	1006,221	1005,204	780.101,644	8.184.176,365	1006,151	-2,0%	3,50	1006,111	-2,0%	5,50
1696+0.000	-7,70	-2,0%	1006,640	-9,70	-2,0%	1006,680	1006,486	1005,110	780.120,418	8.184.169,469	1006,416	-2,0%	3,50	1006,376	-2,0%	5,50
1697+0.000	-7,70	-2,0%	1007,045	-9,70	-2,0%	1007,085	1006,891	1005,670	780.139,191	8.184.162,573	1006,821	-2,0%	3,50	1006,781	-2,0%	5,50
1698+0.000	-7,70	-2,0%	1007,564	-9,70	-2,0%	1007,604	1007,410	1006,162	780.157,965	8.184.155,677	1007,340	-2,0%	3,50	1007,300	-2,0%	5,50
1699+0.000	-7,70	-2,0%	1008,091	-9,70	-2,0%	1008,131	1007,937	1006,886	780.176,738	8.184.148,781	1007,867	-2,0%	3,50	1007,827	-2,0%	5,50
1700+0.000	-7,70	-2,0%	1008,619	-9,70	-2,0%	1008,659	1008,465	1007,639	780.195,512	8.184.141,884	1008,395	-2,0%	3,50	1008,355	-2,0%	5,50
1701+0.000	-7,70	-2,0%	1009,146	-9,70	-2,0%	1009,186	1008,992	1008,432	780.214,285	8.184.134,988	1008,922	-2,0%	3,50	1008,882	-2,0%	5,50
1702+0.000	-7,70	-2,0%	1009,674	-9,70	-2,0%	1009,714	1009,520	1009,133	780.233,058	8.184.128,092	1009,450	-2,0%	3,50	1009,410	-2,0%	5,50
1703+0.000	-7,70	-2,0%	1010,202	-9,70	-2,0%	1010,242	1010,048	1009,810	780.251,832	8.184.121,196	1009,978	-2,0%	3,50	1009,938	-2,0%	5,50
1704+0.000	-7,70	-2,0%	1010,729	-9,70	-2,0%	1010,769	1010,575	1010,297	780.270,605	8.184.114,300	1010,505	-2,0%	3,50	1010,465	-2,0%	5,50
1705+0.000	-7,70	-2,0%	1011,257	-9,70	-2,0%	1011,297	1011,103	1010,592	780.289,379	8.184.107,404	1011,033	-2,0%	3,50	1010,993	-2,0%	5,50
1706+0.000	-7,70	-2,0%	1011,784	-9,70	-2,0%	1011,824	1011,630	1011,190	780.308,152	8.184.100,508	1011,560	-2,0%	3,50	1011,520	-2,0%	5,50
1707+0.000	-7,70	-2,0%	1012,312	-9,70	-2,0%	1012,352	1012,158	1011,472	780.326,926	8.184.093,612	1012,088	-2,0%	3,50	1012,048	-2,0%	5,50
1708+0.000	-7,70	-2,0%	1012,839	-9,70	-2,0%	1012,879	1012,685	1011,570	780.345,699	8.184.086,716	1012,615	-2,0%	3,50	1012,575	-2,0%	5,50
1709+0.000	-7,70	-2,0%	1013,367	-9,70	-2,0%	1013,407	1013,213	1012,043	780.364,473	8.184.079,820	1013,143	-2,0%	3,50	1013,103	-2,0%	5,50
1710+0.000	-7,70	-2,0%	1013,894	-9,70	-2,0%	1013,934	1013,740	1012,356	780.383,246	8.184.072,923	1013,670	-2,0%	3,50	1013,630	-2,0%	5,50
1711+0.000	-7,70	-2,0%	1014,422	-9,70	-2,0%	1014,462	1014,268	1012,892	780.402,020	8.184.066,027	1014,198	-2,0%	3,50	1014,158	-2,0%	5,50
1712+0.000	-7,70	-2,0%	1014,949	-9,70	-2,0%	1014,989	1014,795	1013,017	780.420,793	8.184.059,131	1014,725	-2,0%	3,50	1014,685	-2,0%	5,50
1713+0.000	-7,70	-2,0%	1015,477	-9,70	-2,0%	1015,517	1015,323	1013,945	780.439,567	8.184.052,235	1015,253	-2,0%	3,50	1015,213	-2,0%	5,50
1714+0.000	-7,70	-2,0%	1016,004	-9,70	-2,0%	1016,044	1015,850	1014,239	780.458,340	8.184.045,339	1015,780	-2,0%	3,50	1015,740	-2,0%	5,50
1715+0.000	-7,70	-2,0%	1016,542	-9,70	-2,0%	1016,582	1016,388	1014,654	780.477,114	8.184.038,443	1016,318	-2,0%	3,50	1016,278	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

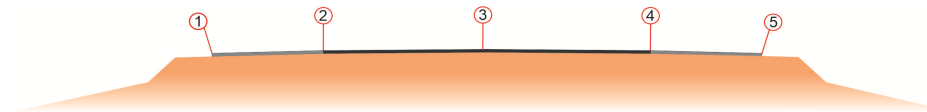
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1716+0.000	-7,70	-2,0%	1017,125	-9,70	-2,0%	1017,165	1016,971	1015,228	780.495,887	8.184.031,547	1016,901	-2,0%	3,50	1016,861	-2,0%	5,50
1717+0.000	-7,70	-2,0%	1017,757	-9,70	-2,0%	1017,797	1017,603	1016,169	780.514,661	8.184.024,651	1017,533	-2,0%	3,50	1017,493	-2,0%	5,50
1718+0.000	-7,70	-2,0%	1018,438	-9,70	-2,0%	1018,478	1018,284	1016,662	780.533,434	8.184.017,755	1018,214	-2,0%	3,50	1018,174	-2,0%	5,50
1719+0.000	-7,70	-2,0%	1019,169	-9,70	-2,0%	1019,209	1019,015	1017,872	780.552,208	8.184.010,858	1018,945	-2,0%	3,50	1018,905	-2,0%	5,50
1720+0.000	-7,70	-2,0%	1019,939	-9,70	-2,0%	1019,979	1019,785	1018,115	780.570,981	8.184.003,962	1019,715	-2,0%	3,50	1019,675	-2,0%	5,50
1721+0.000	-7,70	-2,0%	1020,712	-9,70	-2,0%	1020,752	1020,558	1019,080	780.589,755	8.183.997,066	1020,488	-2,0%	3,50	1020,448	-2,0%	5,50
1722+0.000	-7,70	-2,0%	1021,485	-9,70	-2,0%	1021,525	1021,331	1019,616	780.608,528	8.183.990,170	1021,261	-2,0%	3,50	1021,221	-2,0%	5,50
1723+0.000	-7,70	-2,0%	1022,259	-9,70	-2,0%	1022,299	1022,105	1020,602	780.627,302	8.183.983,274	1022,035	-2,0%	3,50	1021,995	-2,0%	5,50
1724+0.000	-7,70	-2,0%	1023,032	-9,70	-2,0%	1023,072	1022,878	1022,144	780.646,075	8.183.976,378	1022,808	-2,0%	3,50	1022,768	-2,0%	5,50
1725+0.000	-7,70	-2,0%	1023,805	-9,70	-2,0%	1023,845	1023,651	1023,388	780.664,849	8.183.969,482	1023,581	-2,0%	3,50	1023,541	-2,0%	5,50
1726+0.000	-7,70	-2,0%	1024,579	-9,70	-2,0%	1024,619	1024,425	1025,082	780.683,622	8.183.962,586	1024,355	-2,0%	3,50	1024,315	-2,0%	5,50
1727+0.000	-7,70	-2,0%	1025,352	-9,70	-2,0%	1025,392	1025,198	1025,863	780.702,396	8.183.955,690	1025,128	-2,0%	3,50	1025,088	-2,0%	5,50
1728+0.000	-7,70	-2,0%	1026,125	-9,70	-2,0%	1026,165	1025,971	1026,140	780.721,169	8.183.948,794	1025,901	-2,0%	3,50	1025,861	-2,0%	5,50
1729+0.000	-7,70	-2,0%	1026,898	-9,70	-2,0%	1026,938	1026,744	1026,490	780.739,943	8.183.941,897	1026,674	-2,0%	3,50	1026,634	-2,0%	5,50
1730+0.000	-7,70	-2,0%	1027,672	-9,70	-2,0%	1027,712	1027,518	1027,221	780.758,716	8.183.935,001	1027,448	-2,0%	3,50	1027,408	-2,0%	5,50
1731+0.000	-7,70	-2,0%	1028,445	-9,70	-2,0%	1028,485	1028,291	1028,104	780.777,490	8.183.928,105	1028,221	-2,0%	3,50	1028,181	-2,0%	5,50
1732+0.000	-7,70	-2,0%	1029,218	-9,70	-2,0%	1029,258	1029,064	1028,669	780.796,263	8.183.921,209	1028,994	-2,0%	3,50	1028,954	-2,0%	5,50
1733+0.000	-7,70	-2,0%	1029,990	-9,70	-2,0%	1030,030	1029,836	1028,947	780.815,037	8.183.914,313	1029,766	-2,0%	3,50	1029,726	-2,0%	5,50
1734+0.000	-7,70	-2,0%	1030,725	-9,70	-2,0%	1030,765	1030,571	1029,428	780.833,810	8.183.907,417	1030,501	-2,0%	3,50	1030,461	-2,0%	5,50
1735+0.000	-7,70	-2,0%	1031,411	-9,70	-2,0%	1031,451	1031,257	1029,922	780.852,583	8.183.900,521	1031,187	-2,0%	3,50	1031,147	-2,0%	5,50
1736+0.000	-7,70	-2,0%	1032,048	-9,70	-2,0%	1032,088	1031,894	1030,500	780.871,357	8.183.893,625	1031,824	-2,0%	3,50	1031,784	-2,0%	5,50
1737+0.000	-7,70	-2,0%	1032,634	-9,70	-2,0%	1032,674	1032,480	1031,097	780.890,130	8.183.886,729	1032,410	-2,0%	3,50	1032,370	-2,0%	5,50
1738+0.000	-7,70	-2,0%	1033,171	-9,70	-2,0%	1033,211	1033,017	1031,637	780.908,904	8.183.879,832	1032,947	-2,0%	3,50	1032,907	-2,0%	5,50
1739+0.000	-7,70	-2,0%	1033,659	-9,70	-2,0%	1033,699	1033,505	1032,307	780.927,677	8.183.872,936	1033,435	-2,0%	3,50	1033,395	-2,0%	5,50
1740+0.000	-7,70	-2,0%	1034,134	-9,70	-2,0%	1034,174	1033,980	1032,808	780.946,451	8.183.866,040	1033,910	-2,0%	3,50	1033,870	-2,0%	5,50
1741+0.000	-7,70	-2,0%	1034,609	-9,70	-2,0%	1034,649	1034,455	1033,409	780.965,224	8.183.859,144	1034,385	-2,0%	3,50	1034,345	-2,0%	5,50
1742+0.000	-7,70	-2,0%	1035,084	-9,70	-2,0%	1035,124	1034,930	1034,238	780.983,998	8.183.852,248	1034,860	-2,0%	3,50	1034,820	-2,0%	5,50
1743+0.000	-7,70	-2,0%	1035,559	-9,70	-2,0%	1035,599	1035,405	1034,982	781.002,771	8.183.845,352	1035,335	-2,0%	3,50	1035,295	-2,0%	5,50
1744+0.000	-7,70	-2,0%	1036,034	-9,70	-2,0%	1036,074	1035,880	1035,366	781.021,545	8.183.838,456	1035,810	-2,0%	3,50	1035,770	-2,0%	5,50
1745+0.000	-7,70	-2,0%	1036,508	-9,70	-2,0%	1036,548	1036,354	1035,675	781.040,318	8.183.831,560	1036,284	-2,0%	3,50	1036,244	-2,0%	5,50
1746+0.000	-7,70	-2,0%	1036,983	-9,70	-2,0%	1037,023	1036,829	1036,079	781.059,092	8.183.824,664	1036,759	-2,0%	3,50	1036,719	-2,0%	5,50
1747+0.000	-7,70	-2,0%	1037,458	-9,70	-2,0%	1037,498	1037,304	1036,650	781.077,865	8.183.817,768	1037,234	-2,0%	3,50	1037,194	-2,0%	5,50
1748+0.000	-7,70	-2,0%	1037,933	-9,70	-2,0%	1037,973	1037,779	1036,998	781.096,639	8.183.810,871	1037,709	-2,0%	3,50	1037,669	-2,0%	5,50
1749+0.000	-7,70	-2,0%	1038,408	-9,70	-2,0%	1038,448	1038,254	1037,541	781.115,412	8.183.803,975	1038,184	-2,0%	3,50	1038,144	-2,0%	5,50
1750+0.000	-7,70	-2,0%	1038,883	-9,70	-2,0%	1038,923	1038,729	1038,100	781.134,186	8.183.797,079	1038,659	-2,0%	3,50	1038,619	-2,0%	5,50
1751+0.000	-7,70	-2,0%	1039,357	-9,70	-2,0%	1039,397	1039,203	1038,628	781.152,959	8.183.790,183	1039,133	-2,0%	3,50	1039,093	-2,0%	5,50
1752+0.000	-7,70	-2,0%	1039,832	-9,70	-2,0%	1039,872	1039,678	1039,158	781.171,733	8.183.783,287	1039,608	-2,0%	3,50	1039,568	-2,0%	5,50
1753+0.000	-7,70	-2,0%	1040,307	-9,70	-2,0%	1040,347	1040,153	1039,734	781.190,506	8.183.776,391	1040,083	-2,0%	3,50	1040,043	-2,0%	5,50
1754+0.000	-7,70	-2,0%	1040,782	-9,70	-2,0%	1040,822	1040,628	1040,204	781.209,280	8.183.769,495	1040,558	-2,0%	3,50	1040,518	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

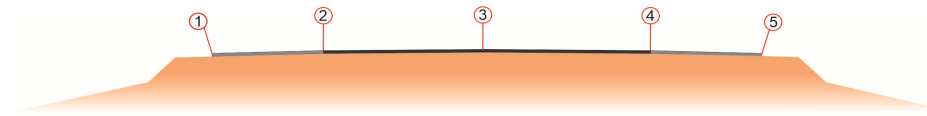
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1755+0.000	-7,70	-2,0%	1041,257	-9,70	-2,0%	1041,297	1041,103	1040,802	781.228,053	8.183.762,599	1041,033	-2,0%	3,50	1040,993	-2,0%	5,50
1756+0.000	-7,70	-2,0%	1041,732	-9,70	-2,0%	1041,772	1041,578	1041,142	781.246,827	8.183.755,703	1041,508	-2,0%	3,50	1041,468	-2,0%	5,50
1757+0.000	-7,70	-2,0%	1042,207	-9,70	-2,0%	1042,247	1042,053	1041,525	781.265,600	8.183.748,806	1041,983	-2,0%	3,50	1041,943	-2,0%	5,50
1758+0.000	-7,70	-2,0%	1042,681	-9,70	-2,0%	1042,721	1042,527	1042,159	781.284,374	8.183.741,910	1042,457	-2,0%	3,50	1042,417	-2,0%	5,50
1759+0.000	-7,70	-2,0%	1043,156	-9,70	-2,0%	1043,196	1043,002	1042,555	781.303,147	8.183.735,014	1042,932	-2,0%	3,50	1042,892	-2,0%	5,50
1760+0.000	-7,70	-2,0%	1043,631	-9,70	-2,0%	1043,671	1043,477	1043,200	781.321,921	8.183.728,118	1043,407	-2,0%	3,50	1043,367	-2,0%	5,50
1761+0.000	-7,70	-2,0%	1044,106	-9,70	-2,0%	1044,146	1043,952	1044,071	781.340,694	8.183.721,222	1043,882	-2,0%	3,50	1043,842	-2,0%	5,50
1762+0.000	-7,70	-2,0%	1044,581	-9,70	-2,0%	1044,621	1044,427	1044,144	781.359,468	8.183.714,326	1044,357	-2,0%	3,50	1044,317	-2,0%	5,50
1763+0.000	-7,70	-2,0%	1045,056	-9,70	-2,0%	1045,096	1044,902	1044,374	781.378,241	8.183.707,430	1044,832	-2,0%	3,50	1044,792	-2,0%	5,50
1764+0.000	-7,70	-2,0%	1045,530	-9,70	-2,0%	1045,570	1045,376	1044,747	781.397,015	8.183.700,534	1045,306	-2,0%	3,50	1045,266	-2,0%	5,50
1765+0.000	-7,70	-2,0%	1046,005	-9,70	-2,0%	1046,045	1045,851	1045,098	781.415,788	8.183.693,638	1045,781	-2,0%	3,50	1045,741	-2,0%	5,50
1766+0.000	-7,70	-2,0%	1046,480	-9,70	-2,0%	1046,520	1046,326	1045,708	781.434,562	8.183.686,742	1046,256	-2,0%	3,50	1046,216	-2,0%	5,50
1767+0.000	-7,70	-2,0%	1046,955	-9,70	-2,0%	1046,995	1046,801	1046,100	781.453,335	8.183.679,845	1046,731	-2,0%	3,50	1046,691	-2,0%	5,50
1768+0.000	-7,70	-2,0%	1047,430	-9,70	-2,0%	1047,470	1047,276	1046,571	781.472,108	8.183.672,949	1047,206	-2,0%	3,50	1047,166	-2,0%	5,50
1769+0.000	-7,70	-2,0%	1047,905	-9,70	-2,0%	1047,945	1047,751	1047,085	781.490,882	8.183.666,053	1047,681	-2,0%	3,50	1047,641	-2,0%	5,50
1770+0.000	-7,70	-2,0%	1048,380	-9,70	-2,0%	1048,420	1048,226	1047,455	781.509,655	8.183.659,157	1048,156	-2,0%	3,50	1048,116	-2,0%	5,50
1771+0.000	-7,70	-2,0%	1048,854	-9,70	-2,0%	1048,894	1048,700	1048,063	781.528,429	8.183.652,261	1048,630	-2,0%	3,50	1048,590	-2,0%	5,50
1772+0.000	-7,70	-2,0%	1049,329	-9,70	-2,0%	1049,369	1049,175	1048,250	781.547,202	8.183.645,365	1049,105	-2,0%	3,50	1049,065	-2,0%	5,50
1773+0.000	-7,70	-2,0%	1049,804	-9,70	-2,0%	1049,844	1049,650	1048,826	781.565,976	8.183.638,469	1049,580	-2,0%	3,50	1049,540	-2,0%	5,50
1774+0.000	-7,70	-2,0%	1050,279	-9,70	-2,0%	1050,319	1050,125	1049,360	781.584,749	8.183.631,573	1050,055	-2,0%	3,50	1050,015	-2,0%	5,50
1775+0.000	-7,70	-2,0%	1050,754	-9,70	-2,0%	1050,794	1050,600	1049,575	781.603,523	8.183.624,677	1050,530	-2,0%	3,50	1050,490	-2,0%	5,50
1776+0.000	-7,70	-2,0%	1051,229	-9,70	-2,0%	1051,269	1051,075	1050,003	781.622,296	8.183.617,780	1051,005	-2,0%	3,50	1050,965	-2,0%	5,50
1777+0.000	-7,70	-2,0%	1051,703	-9,70	-2,0%	1051,743	1051,549	1050,255	781.641,070	8.183.610,884	1051,479	-2,0%	3,50	1051,439	-2,0%	5,50
1778+0.000	-7,70	-2,0%	1052,178	-9,70	-2,0%	1052,218	1052,024	1050,836	781.659,843	8.183.603,988	1051,954	-2,0%	3,50	1051,914	-2,0%	5,50
1779+0.000	-7,70	-2,0%	1052,629	-9,70	-2,0%	1052,669	1052,475	1051,301	781.678,617	8.183.597,092	1052,405	-2,0%	3,50	1052,365	-2,0%	5,50
1780+0.000	-7,70	-2,0%	1053,047	-9,70	-2,0%	1053,087	1052,893	1051,633	781.697,390	8.183.590,196	1052,823	-2,0%	3,50	1052,783	-2,0%	5,50
1781+0.000	-7,70	-2,0%	1053,431	-9,70	-2,0%	1053,471	1053,277	1052,128	781.716,164	8.183.583,300	1053,207	-2,0%	3,50	1053,167	-2,0%	5,50
1782+0.000	-7,70	-2,0%	1053,782	-9,70	-2,0%	1053,822	1053,628	1052,602	781.734,937	8.183.576,404	1053,558	-2,0%	3,50	1053,518	-2,0%	5,50
1783+0.000	-7,70	-2,0%	1054,099	-9,70	-2,0%	1054,139	1053,945	1052,900	781.753,711	8.183.569,508	1053,875	-2,0%	3,50	1053,835	-2,0%	5,50
1784+0.000	-7,70	-2,0%	1054,405	-9,70	-2,0%	1054,445	1054,251	1053,273	781.772,484	8.183.562,612	1054,181	-2,0%	3,50	1054,141	-2,0%	5,50
1785+0.000	-7,70	-2,0%	1054,711	-9,70	-2,0%	1054,751	1054,557	1053,635	781.791,258	8.183.555,716	1054,487	-2,0%	3,50	1054,447	-2,0%	5,50
1786+0.000	-7,70	-2,0%	1055,018	-9,70	-2,0%	1055,058	1054,864	1054,101	781.810,031	8.183.548,819	1054,794	-2,0%	3,50	1054,754	-2,0%	5,50
1787+0.000	-7,70	-2,0%	1055,324	-9,70	-2,0%	1055,364	1055,170	1054,457	781.828,805	8.183.541,923	1055,100	-2,0%	3,50	1055,060	-2,0%	5,50
1788+0.000	-7,70	-2,0%	1055,630	-9,70	-2,0%	1055,670	1055,476	1054,659	781.847,578	8.183.535,027	1055,406	-2,0%	3,50	1055,366	-2,0%	5,50
1789+0.000	-7,70	-2,0%	1055,936	-9,70	-2,0%	1055,976	1055,782	1055,011	781.866,352	8.183.528,131	1055,712	-2,0%	3,50	1055,672	-2,0%	5,50
1790+0.000	-7,70	-2,0%	1056,242	-9,70	-2,0%	1056,282	1056,088	1055,162	781.885,125	8.183.521,235	1056,018	-2,0%	3,50	1055,978	-2,0%	5,50
1791+0.000	-7,70	-2,0%	1056,549	-9,70	-2,0%	1056,589	1056,395	1055,497	781.903,899	8.183.514,339	1056,325	-2,0%	3,50	1056,285	-2,0%	5,50
1792+0.000	-7,70	-2,0%	1056,855	-9,70	-2,0%	1056,895	1056,701	1056,009	781.922,672	8.183.507,443	1056,631	-2,0%	3,50	1056,591	-2,0%	5,50
1793+0.000	-7,70	-2,0%	1057,161	-9,70	-2,0%	1057,201	1057,007	1056,025	781.941,446	8.183.500,547	1056,937	-2,0%	3,50	1056,897	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

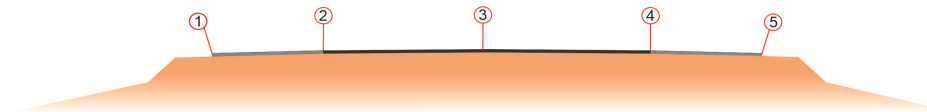
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1794+0.000	-7,70	-1,2%	1057,402	-9,70	-1,2%	1057,426	1057,313	1056,457	781.960,219	8.183.493,651	1057,243	-2,0%	3,50	1057,203	-2,0%	5,50
1795+0.000	-7,70	1,6%	1057,493	-9,70	1,6%	1057,460	1057,619	1056,647	781.978,993	8.183.486,754	1057,549	-2,0%	3,50	1057,509	-2,0%	5,50
1796+0.000	-7,70	4,2%	1057,603	-9,70	4,2%	1057,519	1057,926	1057,092	781.997,662	8.183.479,583	1057,779	-4,2%	3,50	1057,695	-4,2%	5,50
1797+0.000	-7,70	4,2%	1057,909	-9,70	4,2%	1057,825	1058,232	1057,238	782.016,105	8.183.471,849	1058,085	-4,2%	3,50	1058,001	-4,2%	5,50
1798+0.000	-7,70	4,2%	1058,215	-9,70	4,2%	1058,131	1058,538	1057,577	782.034,306	8.183.463,560	1058,391	-4,2%	3,50	1058,307	-4,2%	5,50
1799+0.000	-7,70	4,2%	1058,521	-9,70	4,2%	1058,437	1058,844	1058,046	782.052,247	8.183.454,724	1058,697	-4,2%	3,50	1058,613	-4,2%	5,50
1800+0.000	-7,70	4,2%	1058,827	-9,70	4,2%	1058,743	1059,150	1058,266	782.069,912	8.183.445,348	1059,003	-4,2%	3,50	1058,919	-4,2%	5,50
1801+0.000	-7,70	4,2%	1059,124	-9,70	4,2%	1059,040	1059,447	1058,476	782.087,285	8.183.435,441	1059,300	-4,2%	3,50	1059,216	-4,2%	5,50
1802+0.000	-7,70	4,2%	1059,381	-9,70	4,2%	1059,297	1059,704	1058,619	782.104,350	8.183.425,012	1059,557	-4,2%	3,50	1059,473	-4,2%	5,50
1803+0.000	-7,70	4,2%	1059,595	-9,70	4,2%	1059,511	1059,918	1058,802	782.121,091	8.183.414,071	1059,771	-4,2%	3,50	1059,687	-4,2%	5,50
1804+0.000	-7,70	4,2%	1059,768	-9,70	4,2%	1059,684	1060,091	1058,941	782.137,493	8.183.402,627	1059,944	-4,2%	3,50	1059,860	-4,2%	5,50
1805+0.000	-7,70	4,2%	1059,898	-9,70	4,2%	1059,814	1060,221	1059,045	782.153,540	8.183.390,692	1060,074	-4,2%	3,50	1059,990	-4,2%	5,50
1806+0.000	-7,70	4,2%	1059,986	-9,70	4,2%	1059,902	1060,309	1059,149	782.169,219	8.183.378,277	1060,162	-4,2%	3,50	1060,078	-4,2%	5,50
1807+0.000	-7,70	4,2%	1060,033	-9,70	4,2%	1059,949	1060,356	1059,191	782.184,514	8.183.365,391	1060,209	-4,2%	3,50	1060,125	-4,2%	5,50
1808+0.000	-7,70	4,2%	1060,037	-9,70	4,2%	1059,953	1060,360	1059,095	782.199,412	8.183.352,049	1060,213	-4,2%	3,50	1060,129	-4,2%	5,50
1809+0.000	-7,70	4,2%	1059,999	-9,70	4,2%	1059,915	1060,322	1059,128	782.213,899	8.183.338,261	1060,175	-4,2%	3,50	1060,091	-4,2%	5,50
1810+0.000	-7,70	4,2%	1059,919	-9,70	4,2%	1059,835	1060,242	1059,197	782.227,961	8.183.324,041	1060,095	-4,2%	3,50	1060,011	-4,2%	5,50
1811+0.000	-7,70	4,2%	1059,806	-9,70	4,2%	1059,722	1060,129	1058,890	782.241,586	8.183.309,401	1059,982	-4,2%	3,50	1059,898	-4,2%	5,50
1812+0.000	-7,70	4,2%	1059,691	-9,70	4,2%	1059,607	1060,014	1058,842	782.254,761	8.183.294,354	1059,867	-4,2%	3,50	1059,783	-4,2%	5,50
1813+0.000	-7,70	4,2%	1059,577	-9,70	4,2%	1059,493	1059,900	1058,864	782.267,474	8.183.278,916	1059,753	-4,2%	3,50	1059,669	-4,2%	5,50
1814+0.000	-7,70	1,9%	1059,642	-9,70	1,9%	1059,605	1059,785	1058,717	782.279,714	8.183.263,100	1059,715	-2,0%	3,50	1059,675	-2,0%	5,50
1815+0.000	-7,70	-0,9%	1059,742	-9,70	-0,9%	1059,761	1059,670	1058,676	782.291,682	8.183.247,076	1059,600	-2,0%	3,50	1059,560	-2,0%	5,50
1816+0.000	-7,70	-2,0%	1059,710	-9,70	-2,0%	1059,750	1059,556	1058,544	782.303,649	8.183.231,051	1059,486	-2,0%	3,50	1059,446	-2,0%	5,50
1817+0.000	-7,70	-2,0%	1059,595	-9,70	-2,0%	1059,635	1059,441	1058,397	782.315,616	8.183.215,027	1059,371	-2,0%	3,50	1059,331	-2,0%	5,50
1818+0.000	-7,70	-2,0%	1059,480	-9,70	-2,0%	1059,520	1059,326	1058,325	782.327,583	8.183.199,002	1059,256	-2,0%	3,50	1059,216	-2,0%	5,50
1819+0.000	-7,70	-2,0%	1059,366	-9,70	-2,0%	1059,406	1059,212	1058,334	782.339,551	8.183.182,977	1059,142	-2,0%	3,50	1059,102	-2,0%	5,50
1820+0.000	-7,70	-2,0%	1059,251	-9,70	-2,0%	1059,291	1059,097	1058,008	782.351,518	8.183.166,953	1059,027	-2,0%	3,50	1058,987	-2,0%	5,50
1821+0.000	-7,70	-2,0%	1059,136	-9,70	-2,0%	1059,176	1058,982	1058,064	782.363,485	8.183.150,928	1058,912	-2,0%	3,50	1058,872	-2,0%	5,50
1822+0.000	-7,70	-2,0%	1059,022	-9,70	-2,0%	1059,062	1058,868	1057,936	782.375,452	8.183.134,903	1058,798	-2,0%	3,50	1058,758	-2,0%	5,50
1823+0.000	-7,70	-2,0%	1058,907	-9,70	-2,0%	1058,947	1058,753	1057,892	782.387,419	8.183.118,879	1058,683	-2,0%	3,50	1058,643	-2,0%	5,50
1824+0.000	-7,70	-2,0%	1058,792	-9,70	-2,0%	1058,832	1058,638	1057,887	782.399,386	8.183.102,854	1058,568	-2,0%	3,50	1058,528	-2,0%	5,50
1825+0.000	-7,70	-2,0%	1058,691	-9,70	-2,0%	1058,731	1058,537	1057,785	782.411,353	8.183.086,830	1058,467	-2,0%	3,50	1058,427	-2,0%	5,50
1826+0.000	-7,70	-2,0%	1058,624	-9,70	-2,0%	1058,664	1058,470	1057,747	782.423,320	8.183.070,805	1058,400	-2,0%	3,50	1058,360	-2,0%	5,50
1827+0.000	-7,70	-2,0%	1058,593	-9,70	-2,0%	1058,633	1058,439	1057,762	782.435,287	8.183.054,780	1058,369	-2,0%	3,50	1058,329	-2,0%	5,50
1828+0.000	-7,70	-2,0%	1058,597	-9,70	-2,0%	1058,637	1058,443	1057,727	782.447,254	8.183.038,756	1058,373	-2,0%	3,50	1058,333	-2,0%	5,50
1829+0.000	-7,70	-2,0%	1058,637	-9,70	-2,0%	1058,677	1058,483	1057,713	782.459,222	8.183.022,731	1058,413	-2,0%	3,50	1058,373	-2,0%	5,50
1830+0.000	-7,70	-2,0%	1058,712	-9,70	-2,0%	1058,752	1058,558	1057,701	782.471,189	8.183.006,707	1058,488	-2,0%	3,50	1058,448	-2,0%	5,50
1831+0.000	-7,70	-2,0%	1058,810	-9,70	-2,0%	1058,850	1058,656	1057,670	782.483,156	8.182.990,682	1058,586	-2,0%	3,50	1058,546	-2,0%	5,50
1832+0.000	-7,70	-2,0%	1058,908	-9,70	-2,0%	1058,948	1058,754	1057,747	782.495,123	8.182.974,657	1058,684	-2,0%	3,50	1058,644	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

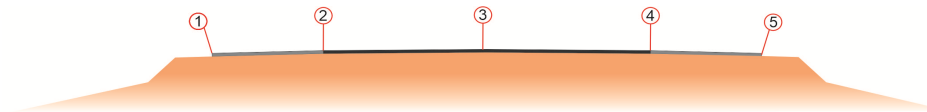
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1833+0.000	-7,70	-2,0%	1059,006	-9,70	-2,0%	1059,046	1058,852	1057,806	782.507,090	8.182.958,633	1058,782	-2,0%	3,50	1058,742	-2,0%	5,50
1834+0.000	-7,70	-2,0%	1059,104	-9,70	-2,0%	1059,144	1058,950	1057,831	782.519,057	8.182.942,608	1058,880	-2,0%	3,50	1058,840	-2,0%	5,50
1835+0.000	-7,70	-2,0%	1059,202	-9,70	-2,0%	1059,242	1059,048	1057,977	782.531,024	8.182.926,583	1058,978	-2,0%	3,50	1058,938	-2,0%	5,50
1836+0.000	-7,70	-2,0%	1059,300	-9,70	-2,0%	1059,340	1059,146	1057,883	782.542,991	8.182.910,559	1059,076	-2,0%	3,50	1059,036	-2,0%	5,50
1837+0.000	-7,70	-2,0%	1059,398	-9,70	-2,0%	1059,438	1059,244	1058,012	782.554,958	8.182.894,534	1059,174	-2,0%	3,50	1059,134	-2,0%	5,50
1838+0.000	-7,70	-2,0%	1059,496	-9,70	-2,0%	1059,536	1059,342	1057,962	782.566,926	8.182.878,510	1059,272	-2,0%	3,50	1059,232	-2,0%	5,50
1839+0.000	-7,70	-2,0%	1059,594	-9,70	-2,0%	1059,634	1059,440	1058,055	782.578,893	8.182.862,485	1059,370	-2,0%	3,50	1059,330	-2,0%	5,50
1840+0.000	-7,70	-2,0%	1059,692	-9,70	-2,0%	1059,732	1059,538	1058,225	782.590,860	8.182.846,460	1059,468	-2,0%	3,50	1059,428	-2,0%	5,50
1841+0.000	-7,70	-2,0%	1059,790	-9,70	-2,0%	1059,830	1059,636	1058,334	782.602,827	8.182.830,436	1059,566	-2,0%	3,50	1059,526	-2,0%	5,50
1842+0.000	-7,70	-2,0%	1059,888	-9,70	-2,0%	1059,928	1059,734	1058,518	782.614,794	8.182.814,411	1059,664	-2,0%	3,50	1059,624	-2,0%	5,50
1843+0.000	-7,70	-2,0%	1059,986	-9,70	-2,0%	1060,026	1059,832	1058,550	782.626,761	8.182.798,387	1059,762	-2,0%	3,50	1059,722	-2,0%	5,50
1844+0.000	-7,70	-2,0%	1060,084	-9,70	-2,0%	1060,124	1059,930	1058,652	782.638,728	8.182.782,362	1059,860	-2,0%	3,50	1059,820	-2,0%	5,50
1845+0.000	-7,70	-2,0%	1060,182	-9,70	-2,0%	1060,222	1060,028	1058,744	782.650,695	8.182.766,337	1059,958	-2,0%	3,50	1059,918	-2,0%	5,50
1846+0.000	-7,70	-2,0%	1060,280	-9,70	-2,0%	1060,320	1060,126	1058,735	782.662,662	8.182.750,313	1060,056	-2,0%	3,50	1060,016	-2,0%	5,50
1847+0.000	-7,70	-2,0%	1060,378	-9,70	-2,0%	1060,418	1060,224	1058,886	782.674,629	8.182.734,288	1060,154	-2,0%	3,50	1060,114	-2,0%	5,50
1848+0.000	-7,70	-2,0%	1060,476	-9,70	-2,0%	1060,516	1060,322	1059,046	782.686,597	8.182.718,263	1060,252	-2,0%	3,50	1060,212	-2,0%	5,50
1849+0.000	-7,70	-2,0%	1060,574	-9,70	-2,0%	1060,614	1060,420	1058,987	782.698,564	8.182.702,239	1060,350	-2,0%	3,50	1060,310	-2,0%	5,50
1850+0.000	-7,70	-2,0%	1060,672	-9,70	-2,0%	1060,712	1060,518	1059,168	782.710,531	8.182.686,214	1060,448	-2,0%	3,50	1060,408	-2,0%	5,50
1851+0.000	-7,70	-2,0%	1060,770	-9,70	-2,0%	1060,810	1060,616	1059,324	782.722,498	8.182.670,190	1060,546	-2,0%	3,50	1060,506	-2,0%	5,50
1852+0.000	-7,70	-2,0%	1060,860	-9,70	-2,0%	1060,900	1060,706	1059,238	782.734,465	8.182.654,165	1060,636	-2,0%	3,50	1060,596	-2,0%	5,50
1853+0.000	-7,70	-2,0%	1060,884	-9,70	-2,0%	1060,924	1060,730	1059,333	782.746,432	8.182.638,140	1060,660	-2,0%	3,50	1060,620	-2,0%	5,50
1854+0.000	-7,70	-2,0%	1060,835	-9,70	-2,0%	1060,875	1060,681	1059,253	782.758,399	8.182.622,116	1060,611	-2,0%	3,50	1060,571	-2,0%	5,50
1855+0.000	-7,70	-2,0%	1060,713	-9,70	-2,0%	1060,753	1060,559	1059,136	782.770,366	8.182.606,091	1060,489	-2,0%	3,50	1060,449	-2,0%	5,50
1856+0.000	-7,70	-2,0%	1060,516	-9,70	-2,0%	1060,556	1060,362	1058,904	782.782,333	8.182.590,066	1060,292	-2,0%	3,50	1060,252	-2,0%	5,50
1857+0.000	-7,70	-2,0%	1060,246	-9,70	-2,0%	1060,286	1060,092	1058,598	782.794,301	8.182.574,042	1060,022	-2,0%	3,50	1059,982	-2,0%	5,50
1858+0.000	-7,70	-2,0%	1059,902	-9,70	-2,0%	1059,942	1059,748	1058,216	782.806,268	8.182.558,017	1059,678	-2,0%	3,50	1059,638	-2,0%	5,50
1859+0.000	-7,70	-2,0%	1059,485	-9,70	-2,0%	1059,525	1059,331	1057,804	782.818,235	8.182.541,993	1059,261	-2,0%	3,50	1059,221	-2,0%	5,50
1860+0.000	-7,70	-2,0%	1058,993	-9,70	-2,0%	1059,033	1058,839	1057,441	782.830,202	8.182.525,968	1058,769	-2,0%	3,50	1058,729	-2,0%	5,50
1861+0.000	-7,70	-2,0%	1058,428	-9,70	-2,0%	1058,468	1058,274	1056,774	782.842,169	8.182.509,943	1058,204	-2,0%	3,50	1058,164	-2,0%	5,50
1862+0.000	-7,70	-2,0%	1057,798	-9,70	-2,0%	1057,838	1057,644	1056,287	782.854,136	8.182.493,919	1057,574	-2,0%	3,50	1057,534	-2,0%	5,50
1863+0.000	-7,70	-2,0%	1057,159	-9,70	-2,0%	1057,199	1057,005	1056,057	782.866,103	8.182.477,894	1056,935	-2,0%	3,50	1056,895	-2,0%	5,50
1864+0.000	-7,70	-2,0%	1056,520	-9,70	-2,0%	1056,560	1056,366	1055,182	782.878,070	8.182.461,870	1056,296	-2,0%	3,50	1056,256	-2,0%	5,50
1865+0.000	-7,70	-2,0%	1055,880	-9,70	-2,0%	1055,920	1055,726	1054,732	782.890,037	8.182.445,845	1055,656	-2,0%	3,50	1055,616	-2,0%	5,50
1866+0.000	-7,70	-2,0%	1055,241	-9,70	-2,0%	1055,281	1055,087	1054,053	782.902,004	8.182.429,820	1055,017	-2,0%	3,50	1054,977	-2,0%	5,50
1867+0.000	-7,70	-2,0%	1054,602	-9,70	-2,0%	1054,642	1054,448	1054,392	782.913,972	8.182.413,796	1054,378	-2,0%	3,50	1054,338	-2,0%	5,50
1868+0.000	-7,70	-2,0%	1053,962	-9,70	-2,0%	1054,002	1053,808	1053,303	782.925,939	8.182.397,771	1053,738	-2,0%	3,50	1053,698	-2,0%	5,50
1869+0.000	-7,70	0,6%	1053,123	-9,70	0,6%	1053,111	1053,169	1052,650	782.937,906	8.182.381,746	1053,099	-2,0%	3,50	1053,059	-2,0%	5,50
1870+0.000	-7,70	3,4%	1052,266	-9,70	3,4%	1052,197	1052,529	1051,791	782.949,782	8.182.365,655	1052,409	-3,4%	3,50	1052,341	-3,4%	5,50
1871+0.000	-7,70	3,8%	1051,597	-9,70	3,8%	1051,521	1051,890	1050,544	782.961,273	8.182.349,286	1051,757	-3,8%	3,50	1051,681	-3,8%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

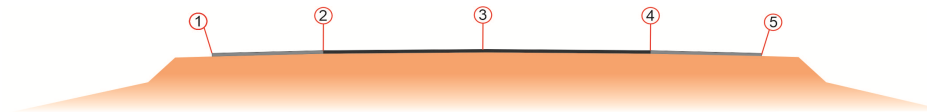
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1872+0.000	-7,70	3,8%	1050,958	-9,70	3,8%	1050,882	1051,251	1049,554	782.972,352	8.182.332,636	1051,118	-3,8%	3,50	1051,042	-3,8%	5,50
1873+0.000	-7,70	3,8%	1050,318	-9,70	3,8%	1050,242	1050,611	1049,495	782.983,012	8.182.315,714	1050,478	-3,8%	3,50	1050,402	-3,8%	5,50
1874+0.000	-7,70	3,8%	1049,679	-9,70	3,8%	1049,603	1049,972	1047,501	782.993,244	8.182.298,530	1049,839	-3,8%	3,50	1049,763	-3,8%	5,50
1875+0.000	-7,70	3,8%	1049,075	-9,70	3,8%	1048,999	1049,368	1046,916	783.003,045	8.182.281,097	1049,235	-3,8%	3,50	1049,159	-3,8%	5,50
1876+0.000	-7,70	3,8%	1048,555	-9,70	3,8%	1048,479	1048,848	1045,871	783.012,406	8.182.263,423	1048,715	-3,8%	3,50	1048,639	-3,8%	5,50
1877+0.000	-7,70	3,8%	1048,119	-9,70	3,8%	1048,043	1048,412	1044,794	783.021,323	8.182.245,522	1048,279	-3,8%	3,50	1048,203	-3,8%	5,50
1878+0.000	-7,70	2,5%	1047,865	-9,70	2,5%	1047,815	1048,061	1043,989	783.029,789	8.182.227,402	1047,972	-2,5%	3,50	1047,921	-2,5%	5,50
1879+0.000	-7,70	-0,3%	1047,817	-9,70	-0,3%	1047,822	1047,795	1043,683	783.037,893	8.182.209,118	1047,725	-2,0%	3,50	1047,685	-2,0%	5,50
1880+0.000	-7,70	-2,0%	1047,767	-9,70	-2,0%	1047,807	1047,613	1043,554	783.045,968	8.182.190,821	1047,543	-2,0%	3,50	1047,503	-2,0%	5,50
1881+0.000	-7,70	-2,0%	1047,670	-9,70	-2,0%	1047,710	1047,516	1043,672	783.054,042	8.182.172,523	1047,446	-2,0%	3,50	1047,406	-2,0%	5,50
1882+0.000	-7,70	-2,0%	1047,657	-9,70	-2,0%	1047,697	1047,503	1044,059	783.062,117	8.182.154,225	1047,433	-2,0%	3,50	1047,393	-2,0%	5,50
1883+0.000	-7,70	-2,0%	1047,728	-9,70	-2,0%	1047,768	1047,574	1044,440	783.070,192	8.182.135,928	1047,504	-2,0%	3,50	1047,464	-2,0%	5,50
1884+0.000	-7,70	-2,0%	1047,885	-9,70	-2,0%	1047,925	1047,731	1045,039	783.078,266	8.182.117,630	1047,661	-2,0%	3,50	1047,621	-2,0%	5,50
1885+0.000	-7,70	-2,0%	1048,125	-9,70	-2,0%	1048,165	1047,971	1045,847	783.086,341	8.182.099,333	1047,901	-2,0%	3,50	1047,861	-2,0%	5,50
1886+0.000	-7,70	-2,0%	1048,451	-9,70	-2,0%	1048,491	1048,297	1046,609	783.094,416	8.182.081,035	1048,227	-2,0%	3,50	1048,187	-2,0%	5,50
1887+0.000	-7,70	-2,0%	1048,825	-9,70	-2,0%	1048,865	1048,671	1047,301	783.102,490	8.182.062,738	1048,601	-2,0%	3,50	1048,561	-2,0%	5,50
1888+0.000	-7,70	-2,0%	1049,201	-9,70	-2,0%	1049,241	1049,047	1048,084	783.110,565	8.182.044,440	1048,977	-2,0%	3,50	1048,937	-2,0%	5,50
1889+0.000	-7,70	-2,0%	1049,576	-9,70	-2,0%	1049,616	1049,422	1048,768	783.118,639	8.182.026,143	1049,352	-2,0%	3,50	1049,312	-2,0%	5,50
1890+0.000	-7,70	-2,0%	1049,951	-9,70	-2,0%	1049,991	1049,797	1049,588	783.126,714	8.182.007,845	1049,727	-2,0%	3,50	1049,687	-2,0%	5,50
1891+0.000	-7,70	-2,0%	1050,326	-9,70	-2,0%	1050,366	1050,172	1050,173	783.134,789	8.181.989,547	1050,102	-2,0%	3,50	1050,062	-2,0%	5,50
1892+0.000	-7,70	-2,0%	1050,701	-9,70	-2,0%	1050,741	1050,547	1050,666	783.142,863	8.181.971,250	1050,477	-2,0%	3,50	1050,437	-2,0%	5,50
1893+0.000	-7,70	-2,0%	1051,076	-9,70	-2,0%	1051,116	1050,922	1050,800	783.150,938	8.181.952,952	1050,852	-2,0%	3,50	1050,812	-2,0%	5,50
1894+0.000	-7,70	-2,0%	1051,451	-9,70	-2,0%	1051,491	1051,297	1051,130	783.159,012	8.181.934,655	1051,227	-2,0%	3,50	1051,187	-2,0%	5,50
1895+0.000	-7,70	-2,0%	1051,826	-9,70	-2,0%	1051,866	1051,672	1050,682	783.167,087	8.181.916,357	1051,602	-2,0%	3,50	1051,562	-2,0%	5,50
1896+0.000	-7,70	-2,0%	1052,170	-9,70	-2,0%	1052,210	1052,016	1050,714	783.175,162	8.181.898,060	1051,946	-2,0%	3,50	1051,906	-2,0%	5,50
1897+0.000	-7,70	-2,0%	1052,460	-9,70	-2,0%	1052,500	1052,306	1050,276	783.183,236	8.181.879,762	1052,236	-2,0%	3,50	1052,196	-2,0%	5,50
1898+0.000	-7,70	-2,0%	1052,697	-9,70	-2,0%	1052,737	1052,543	1049,971	783.191,311	8.181.861,464	1052,473	-2,0%	3,50	1052,433	-2,0%	5,50
1899+0.000	-7,70	-2,0%	1052,881	-9,70	-2,0%	1052,921	1052,727	1049,835	783.199,385	8.181.843,167	1052,657	-2,0%	3,50	1052,617	-2,0%	5,50
1900+0.000	-7,70	-2,0%	1053,011	-9,70	-2,0%	1053,051	1052,857	1050,089	783.207,460	8.181.824,869	1052,787	-2,0%	3,50	1052,747	-2,0%	5,50
1901+0.000	-7,70	-2,0%	1053,118	-9,70	-2,0%	1053,158	1052,964	1050,027	783.215,535	8.181.806,572	1052,894	-2,0%	3,50	1052,854	-2,0%	5,50
1902+0.000	-7,70	-2,0%	1053,225	-9,70	-2,0%	1053,265	1053,071	1050,357	783.223,609	8.181.788,274	1053,001	-2,0%	3,50	1052,961	-2,0%	5,50
1903+0.000	-7,70	-2,0%	1053,332	-9,70	-2,0%	1053,372	1053,178	1050,384	783.231,684	8.181.769,977	1053,108	-2,0%	3,50	1053,068	-2,0%	5,50
1904+0.000	-7,70	-2,0%	1053,439	-9,70	-2,0%	1053,479	1053,285	1051,010	783.239,758	8.181.751,679	1053,215	-2,0%	3,50	1053,175	-2,0%	5,50
1905+0.000	-7,70	-2,0%	1053,546	-9,70	-2,0%	1053,586	1053,392	1051,243	783.247,833	8.181.733,382	1053,322	-2,0%	3,50	1053,282	-2,0%	5,50
1906+0.000	-7,70	-2,0%	1053,654	-9,70	-2,0%	1053,694	1053,500	1052,027	783.255,908	8.181.715,084	1053,430	-2,0%	3,50	1053,390	-2,0%	5,50
1907+0.000	-7,70	-2,0%	1053,761	-9,70	-2,0%	1053,801	1053,607	1052,304	783.263,982	8.181.696,786	1053,537	-2,0%	3,50	1053,497	-2,0%	5,50
1908+0.000	-7,70	-2,0%	1053,868	-9,70	-2,0%	1053,908	1053,714	1052,971	783.272,057	8.181.678,489	1053,644	-2,0%	3,50	1053,604	-2,0%	5,50
1909+0.000	-7,70	-2,0%	1053,975	-9,70	-2,0%	1054,015	1053,821	1052,860	783.280,131	8.181.660,191	1053,751	-2,0%	3,50	1053,711	-2,0%	5,50
1910+0.000	-7,70	-2,0%	1054,082	-9,70	-2,0%	1054,122	1053,928	1052,952	783.288,206	8.181.641,894	1053,858	-2,0%	3,50	1053,818	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

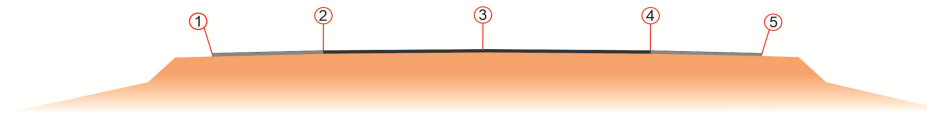
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1911+0.000	-7,70	-2,0%	1054,189	-9,70	-2,0%	1054,229	1054,035	1052,932	783.296,281	8.181.623,596	1053,965	-2,0%	3,50	1053,925	-2,0%	5,50
1912+0.000	-7,70	-2,0%	1054,296	-9,70	-2,0%	1054,336	1054,142	1052,923	783.304,355	8.181.605,299	1054,072	-2,0%	3,50	1054,032	-2,0%	5,50
1913+0.000	-7,70	-2,0%	1054,403	-9,70	-2,0%	1054,443	1054,249	1052,510	783.312,430	8.181.587,001	1054,179	-2,0%	3,50	1054,139	-2,0%	5,50
1914+0.000	-7,70	-2,0%	1054,511	-9,70	-2,0%	1054,551	1054,357	1052,611	783.320,504	8.181.568,703	1054,287	-2,0%	3,50	1054,247	-2,0%	5,50
1915+0.000	-7,70	-2,0%	1054,618	-9,70	-2,0%	1054,658	1054,464	1052,498	783.328,579	8.181.550,406	1054,394	-2,0%	3,50	1054,354	-2,0%	5,50
1916+0.000	-7,70	-2,0%	1054,725	-9,70	-2,0%	1054,765	1054,571	1052,127	783.336,654	8.181.532,108	1054,501	-2,0%	3,50	1054,461	-2,0%	5,50
1917+0.000	-7,70	-2,0%	1054,832	-9,70	-2,0%	1054,872	1054,678	1052,217	783.344,728	8.181.513,811	1054,608	-2,0%	3,50	1054,568	-2,0%	5,50
1918+0.000	-7,70	-2,0%	1054,939	-9,70	-2,0%	1054,979	1054,785	1051,838	783.352,803	8.181.495,513	1054,715	-2,0%	3,50	1054,675	-2,0%	5,50
1919+0.000	-7,70	-2,0%	1055,046	-9,70	-2,0%	1055,086	1054,892	1052,003	783.360,877	8.181.477,216	1054,822	-2,0%	3,50	1054,782	-2,0%	5,50
1920+0.000	-7,70	-2,0%	1055,153	-9,70	-2,0%	1055,193	1054,999	1052,020	783.368,952	8.181.458,918	1054,929	-2,0%	3,50	1054,889	-2,0%	5,50
1921+0.000	-7,70	-2,0%	1055,260	-9,70	-2,0%	1055,300	1055,106	1051,990	783.377,027	8.181.440,621	1055,036	-2,0%	3,50	1054,996	-2,0%	5,50
1922+0.000	-7,70	-2,0%	1055,368	-9,70	-2,0%	1055,408	1055,214	1052,001	783.385,101	8.181.422,323	1055,144	-2,0%	3,50	1055,104	-2,0%	5,50
1923+0.000	-7,70	-2,0%	1055,475	-9,70	-2,0%	1055,515	1055,321	1052,163	783.393,176	8.181.404,025	1055,251	-2,0%	3,50	1055,211	-2,0%	5,50
1924+0.000	-7,70	-2,0%	1055,582	-9,70	-2,0%	1055,622	1055,428	1052,216	783.401,250	8.181.385,728	1055,358	-2,0%	3,50	1055,318	-2,0%	5,50
1925+0.000	-7,70	-2,0%	1055,689	-9,70	-2,0%	1055,729	1055,535	1052,397	783.409,325	8.181.367,430	1055,465	-2,0%	3,50	1055,425	-2,0%	5,50
1926+0.000	-7,70	-2,0%	1055,796	-9,70	-2,0%	1055,836	1055,642	1052,705	783.417,400	8.181.349,133	1055,572	-2,0%	3,50	1055,532	-2,0%	5,50
1927+0.000	-7,70	-2,0%	1055,903	-9,70	-2,0%	1055,943	1055,749	1052,942	783.425,474	8.181.330,835	1055,679	-2,0%	3,50	1055,639	-2,0%	5,50
1928+0.000	-7,70	-2,0%	1056,010	-9,70	-2,0%	1056,050	1055,856	1053,075	783.433,549	8.181.312,538	1055,786	-2,0%	3,50	1055,746	-2,0%	5,50
1929+0.000	-7,70	-2,0%	1056,117	-9,70	-2,0%	1056,157	1055,963	1053,641	783.441,623	8.181.294,240	1055,893	-2,0%	3,50	1055,853	-2,0%	5,50
1930+0.000	-7,70	-2,0%	1056,225	-9,70	-2,0%	1056,265	1056,071	1053,659	783.449,698	8.181.275,942	1056,001	-2,0%	3,50	1055,961	-2,0%	5,50
1931+0.000	-7,70	-2,0%	1056,332	-9,70	-2,0%	1056,372	1056,178	1054,112	783.457,773	8.181.257,645	1056,108	-2,0%	3,50	1056,068	-2,0%	5,50
1932+0.000	-7,70	-2,0%	1056,466	-9,70	-2,0%	1056,506	1056,312	1054,431	783.465,847	8.181.239,347	1056,242	-2,0%	3,50	1056,202	-2,0%	5,50
1933+0.000	-7,70	-2,0%	1056,672	-9,70	-2,0%	1056,712	1056,518	1055,073	783.473,922	8.181.221,050	1056,448	-2,0%	3,50	1056,408	-2,0%	5,50
1934+0.000	-7,70	-2,0%	1056,949	-9,70	-2,0%	1056,989	1056,795	1055,528	783.481,996	8.181.202,752	1056,725	-2,0%	3,50	1056,685	-2,0%	5,50
1935+0.000	-7,70	-2,0%	1057,299	-9,70	-2,0%	1057,339	1057,145	1056,181	783.490,071	8.181.184,455	1057,075	-2,0%	3,50	1057,035	-2,0%	5,50
1936+0.000	-7,70	-2,0%	1057,720	-9,70	-2,0%	1057,760	1057,566	1056,377	783.498,146	8.181.166,157	1057,496	-2,0%	3,50	1057,456	-2,0%	5,50
1937+0.000	-7,70	-2,0%	1058,187	-9,70	-2,0%	1058,227	1058,033	1057,160	783.506,220	8.181.147,860	1057,963	-2,0%	3,50	1057,923	-2,0%	5,50
1938+0.000	-7,70	-2,0%	1058,654	-9,70	-2,0%	1058,694	1058,500	1057,586	783.514,295	8.181.129,562	1058,430	-2,0%	3,50	1058,390	-2,0%	5,50
1939+0.000	-7,70	-2,0%	1059,121	-9,70	-2,0%	1059,161	1058,967	1058,201	783.522,369	8.181.111,264	1058,897	-2,0%	3,50	1058,857	-2,0%	5,50
1940+0.000	-7,70	-2,0%	1059,588	-9,70	-2,0%	1059,628	1059,434	1059,121	783.530,444	8.181.092,967	1059,364	-2,0%	3,50	1059,324	-2,0%	5,50
1941+0.000	-7,70	-2,0%	1060,055	-9,70	-2,0%	1060,095	1059,901	1059,291	783.538,519	8.181.074,669	1059,831	-2,0%	3,50	1059,791	-2,0%	5,50
1942+0.000	-7,70	-2,0%	1060,522	-9,70	-2,0%	1060,562	1060,368	1059,860	783.546,593	8.181.056,372	1060,298	-2,0%	3,50	1060,258	-2,0%	5,50
1943+0.000	-7,70	-2,0%	1060,989	-9,70	-2,0%	1061,029	1060,835	1060,219	783.554,668	8.181.038,074	1060,765	-2,0%	3,50	1060,725	-2,0%	5,50
1944+0.000	-7,70	-2,0%	1061,456	-9,70	-2,0%	1061,496	1061,302	1060,771	783.562,742	8.181.019,777	1061,299	-0,1%	3,50	1061,297	-0,1%	5,50
1945+0.000	-7,70	-2,7%	1061,978	-9,70	-2,7%	1062,032	1061,769	1061,212	783.570,853	8.181.001,495	1061,864	2,7%	3,50	1061,918	2,7%	5,50
1946+0.000	-7,70	-4,2%	1062,559	-9,70	-4,2%	1062,643	1062,236	1061,562	783.579,392	8.180.983,410	1062,383	4,2%	3,50	1062,467	4,2%	5,50
1947+0.000	-7,70	-4,2%	1063,026	-9,70	-4,2%	1063,110	1062,703	1062,109	783.588,459	8.180.965,584	1062,850	4,2%	3,50	1062,934	4,2%	5,50
1948+0.000	-7,70	-4,2%	1063,493	-9,70	-4,2%	1063,577	1063,170	1062,619	783.598,046	8.180.948,033	1063,317	4,2%	3,50	1063,401	4,2%	5,50
1949+0.000	-7,70	-4,2%	1063,960	-9,70	-4,2%	1064,044	1063,637	1063,236	783.608,145	8.180.930,771	1063,784	4,2%	3,50	1063,868	4,2%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

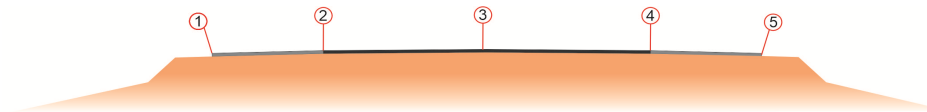
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1950+0.000	-7,70	-4,2%	1064,427	-9,70	-4,2%	1064,511	1064,104	1063,778	783.618,748	8.180.913,813	1064,251	4,2%	3,50	1064,335	4,2%	5,50
1951+0.000	-7,70	-4,2%	1064,894	-9,70	-4,2%	1064,978	1064,571	1064,235	783.629,844	8.180.897,175	1064,718	4,2%	3,50	1064,802	4,2%	5,50
1952+0.000	-7,70	-4,2%	1065,361	-9,70	-4,2%	1065,445	1065,038	1064,642	783.641,425	8.180.880,870	1065,185	4,2%	3,50	1065,269	4,2%	5,50
1953+0.000	-7,70	-4,2%	1065,829	-9,70	-4,2%	1065,913	1065,506	1065,119	783.653,480	8.180.864,912	1065,653	4,2%	3,50	1065,737	4,2%	5,50
1954+0.000	-7,70	-4,2%	1066,296	-9,70	-4,2%	1066,380	1065,973	1065,552	783.666,000	8.180.849,316	1066,120	4,2%	3,50	1066,204	4,2%	5,50
1955+0.000	-7,70	-4,2%	1066,763	-9,70	-4,2%	1066,847	1066,440	1066,156	783.678,973	8.180.834,095	1066,587	4,2%	3,50	1066,671	4,2%	5,50
1956+0.000	-7,70	-4,2%	1067,230	-9,70	-4,2%	1067,314	1066,907	1066,482	783.692,388	8.180.819,263	1067,054	4,2%	3,50	1067,138	4,2%	5,50
1957+0.000	-7,70	-4,2%	1067,697	-9,70	-4,2%	1067,781	1067,374	1066,931	783.706,233	8.180.804,831	1067,521	4,2%	3,50	1067,605	4,2%	5,50
1958+0.000	-7,70	-4,2%	1068,164	-9,70	-4,2%	1068,248	1067,841	1067,428	783.720,496	8.180.790,812	1067,988	4,2%	3,50	1068,072	4,2%	5,50
1959+0.000	-7,70	-4,2%	1068,631	-9,70	-4,2%	1068,715	1068,308	1067,870	783.735,166	8.180.777,219	1068,455	4,2%	3,50	1068,539	4,2%	5,50
1960+0.000	-7,70	-4,2%	1069,098	-9,70	-4,2%	1069,182	1068,775	1068,246	783.750,229	8.180.764,063	1068,922	4,2%	3,50	1069,006	4,2%	5,50
1961+0.000	-7,70	-4,2%	1069,565	-9,70	-4,2%	1069,649	1069,242	1068,652	783.765,672	8.180.751,356	1069,389	4,2%	3,50	1069,473	4,2%	5,50
1962+0.000	-7,70	-4,2%	1070,023	-9,70	-4,2%	1070,107	1069,700	1068,922	783.781,483	8.180.739,108	1069,847	4,2%	3,50	1069,931	4,2%	5,50
1963+0.000	-7,70	-4,2%	1070,453	-9,70	-4,2%	1070,537	1070,130	1069,312	783.797,646	8.180.727,331	1070,277	4,2%	3,50	1070,361	4,2%	5,50
1964+0.000	-7,70	-4,2%	1070,854	-9,70	-4,2%	1070,938	1070,531	1069,658	783.814,150	8.180.716,034	1070,678	4,2%	3,50	1070,762	4,2%	5,50
1965+0.000	-7,70	-2,4%	1071,092	-9,70	-2,4%	1071,141	1070,904	1069,801	783.830,978	8.180.705,227	1070,989	2,4%	3,50	1071,038	2,4%	5,50
1966+0.000	-7,70	-2,0%	1071,403	-9,70	-2,0%	1071,443	1071,249	1070,035	783.848,036	8.180.694,786	1071,236	-0,4%	3,50	1071,229	-0,4%	5,50
1967+0.000	-7,70	-2,0%	1071,719	-9,70	-2,0%	1071,759	1071,565	1070,268	783.865,105	8.180.684,363	1071,495	-2,0%	3,50	1071,455	-2,0%	5,50
1968+0.000	-7,70	-2,0%	1072,007	-9,70	-2,0%	1072,047	1071,853	1070,626	783.882,175	8.180.673,940	1071,783	-2,0%	3,50	1071,743	-2,0%	5,50
1969+0.000	-7,70	-2,0%	1072,266	-9,70	-2,0%	1072,306	1072,112	1070,849	783.899,244	8.180.663,518	1072,042	-2,0%	3,50	1072,002	-2,0%	5,50
1970+0.000	-7,70	-2,0%	1072,498	-9,70	-2,0%	1072,538	1072,344	1071,036	783.916,313	8.180.653,095	1072,274	-2,0%	3,50	1072,234	-2,0%	5,50
1971+0.000	-7,70	-2,0%	1072,700	-9,70	-2,0%	1072,740	1072,546	1071,179	783.933,383	8.180.642,672	1072,476	-2,0%	3,50	1072,436	-2,0%	5,50
1972+0.000	-7,70	-2,0%	1072,874	-9,70	-2,0%	1072,914	1072,720	1071,306	783.950,452	8.180.632,249	1072,650	-2,0%	3,50	1072,610	-2,0%	5,50
1973+0.000	-7,70	-2,0%	1073,020	-9,70	-2,0%	1073,060	1072,866	1071,519	783.967,521	8.180.621,826	1072,796	-2,0%	3,50	1072,756	-2,0%	5,50
1974+0.000	-7,70	-2,0%	1073,138	-9,70	-2,0%	1073,178	1072,984	1071,644	783.984,591	8.180.611,403	1072,914	-2,0%	3,50	1072,874	-2,0%	5,50
1975+0.000	-7,70	-2,0%	1073,227	-9,70	-2,0%	1073,267	1073,073	1071,762	784.001,660	8.180.600,980	1073,003	-2,0%	3,50	1072,963	-2,0%	5,50
1976+0.000	-7,70	-2,0%	1073,287	-9,70	-2,0%	1073,327	1073,133	1071,838	784.018,729	8.180.590,557	1073,063	-2,0%	3,50	1073,023	-2,0%	5,50
1977+0.000	-7,70	-2,0%	1073,320	-9,70	-2,0%	1073,360	1073,166	1071,959	784.035,799	8.180.580,134	1073,096	-2,0%	3,50	1073,056	-2,0%	5,50
1978+0.000	-7,70	-2,0%	1073,323	-9,70	-2,0%	1073,363	1073,169	1071,841	784.052,868	8.180.569,711	1073,099	-2,0%	3,50	1073,059	-2,0%	5,50
1979+0.000	-7,70	-2,0%	1073,299	-9,70	-2,0%	1073,339	1073,145	1072,038	784.069,938	8.180.559,288	1073,075	-2,0%	3,50	1073,035	-2,0%	5,50
1980+0.000	-7,70	-2,0%	1073,246	-9,70	-2,0%	1073,286	1073,092	1072,014	784.087,007	8.180.548,866	1073,022	-2,0%	3,50	1072,982	-2,0%	5,50
1981+0.000	-7,70	-2,0%	1073,164	-9,70	-2,0%	1073,204	1073,010	1071,950	784.104,076	8.180.538,443	1072,940	-2,0%	3,50	1072,900	-2,0%	5,50
1982+0.000	-7,70	-2,0%	1073,064	-9,70	-2,0%	1073,104	1072,910	1071,873	784.121,146	8.180.528,020	1072,840	-2,0%	3,50	1072,800	-2,0%	5,50
1983+0.000	-7,70	-2,0%	1072,963	-9,70	-2,0%	1073,003	1072,809	1071,680	784.138,215	8.180.517,597	1072,739	-2,0%	3,50	1072,699	-2,0%	5,50
1984+0.000	-7,70	-2,0%	1072,862	-9,70	-2,0%	1072,902	1072,708	1071,672	784.155,284	8.180.507,174	1072,638	-2,0%	3,50	1072,598	-2,0%	5,50
1985+0.000	-7,70	-2,0%	1072,761	-9,70	-2,0%	1072,801	1072,607	1071,520	784.172,354	8.180.496,751	1072,537	-2,0%	3,50	1072,497	-2,0%	5,50
1986+0.000	-7,70	-2,0%	1072,660	-9,70	-2,0%	1072,700	1072,506	1071,386	784.189,423	8.180.486,328	1072,436	-2,0%	3,50	1072,396	-2,0%	5,50
1987+0.000	-7,70	-2,0%	1072,559	-9,70	-2,0%	1072,599	1072,405	1071,362	784.206,492	8.180.475,905	1072,335	-2,0%	3,50	1072,295	-2,0%	5,50
1988+0.000	-7,70	-2,0%	1072,458	-9,70	-2,0%	1072,498	1072,304	1071,383	784.223,562	8.180.465,482	1072,234	-2,0%	3,50	1072,194	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

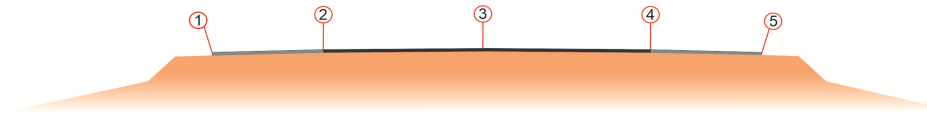
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
1989+0.000	-7,70	-2,0%	1072,356	-9,70	-2,0%	1072,396	1072,202	1071,201	784.240,631	8.180.455,059	1072,132	-2,0%	3,50	1072,092	-2,0%	5,50
1990+0.000	-7,70	-2,0%	1072,255	-9,70	-2,0%	1072,295	1072,101	1071,182	784.257,700	8.180.444,636	1072,031	-2,0%	3,50	1071,991	-2,0%	5,50
1991+0.000	-7,70	-2,0%	1072,154	-9,70	-2,0%	1072,194	1072,000	1070,980	784.274,770	8.180.434,214	1071,930	-2,0%	3,50	1071,890	-2,0%	5,50
1992+0.000	-7,70	-2,0%	1072,053	-9,70	-2,0%	1072,093	1071,899	1070,722	784.291,839	8.180.423,791	1071,829	-2,0%	3,50	1071,789	-2,0%	5,50
1993+0.000	-7,70	-2,0%	1071,952	-9,70	-2,0%	1071,992	1071,798	1070,594	784.308,909	8.180.413,368	1071,728	-2,0%	3,50	1071,688	-2,0%	5,50
1994+0.000	-7,70	-2,0%	1071,851	-9,70	-2,0%	1071,891	1071,697	1070,414	784.325,978	8.180.402,945	1071,627	-2,0%	3,50	1071,587	-2,0%	5,50
1995+0.000	-7,70	-2,0%	1071,750	-9,70	-2,0%	1071,790	1071,596	1070,251	784.343,047	8.180.392,522	1071,526	-2,0%	3,50	1071,486	-2,0%	5,50
1996+0.000	-7,70	-2,0%	1071,649	-9,70	-2,0%	1071,689	1071,495	1070,040	784.360,117	8.180.382,099	1071,425	-2,0%	3,50	1071,385	-2,0%	5,50
1997+0.000	-7,70	-2,0%	1071,548	-9,70	-2,0%	1071,588	1071,394	1069,868	784.377,186	8.180.371,676	1071,324	-2,0%	3,50	1071,284	-2,0%	5,50
1998+0.000	-7,70	-2,0%	1071,447	-9,70	-2,0%	1071,487	1071,293	1069,756	784.394,255	8.180.361,253	1071,223	-2,0%	3,50	1071,183	-2,0%	5,50
1999+0.000	-7,70	-2,0%	1071,346	-9,70	-2,0%	1071,386	1071,192	1069,762	784.411,325	8.180.350,830	1071,122	-2,0%	3,50	1071,082	-2,0%	5,50
2000+0.000	-7,70	-2,0%	1071,245	-9,70	-2,0%	1071,285	1071,091	1069,500	784.428,394	8.180.340,407	1071,021	-2,0%	3,50	1070,981	-2,0%	5,50
2001+0.000	-7,70	-2,0%	1071,144	-9,70	-2,0%	1071,184	1070,990	1069,447	784.445,463	8.180.329,984	1070,920	-2,0%	3,50	1070,880	-2,0%	5,50
2002+0.000	-7,70	-2,0%	1071,043	-9,70	-2,0%	1071,083	1070,889	1069,346	784.462,533	8.180.319,562	1070,819	-2,0%	3,50	1070,779	-2,0%	5,50
2003+0.000	-7,70	-2,0%	1070,942	-9,70	-2,0%	1070,982	1070,788	1069,102	784.479,602	8.180.309,139	1070,718	-2,0%	3,50	1070,678	-2,0%	5,50
2004+0.000	-7,70	-2,0%	1070,841	-9,70	-2,0%	1070,881	1070,687	1069,017	784.496,671	8.180.298,716	1070,617	-2,0%	3,50	1070,577	-2,0%	5,50
2005+0.000	-7,70	-2,0%	1070,740	-9,70	-2,0%	1070,780	1070,586	1068,836	784.513,741	8.180.288,293	1070,516	-2,0%	3,50	1070,476	-2,0%	5,50
2006+0.000	-7,70	-2,0%	1070,639	-9,70	-2,0%	1070,679	1070,485	1068,674	784.530,810	8.180.277,870	1070,415	-2,0%	3,50	1070,375	-2,0%	5,50
2007+0.000	-7,70	-2,0%	1070,537	-9,70	-2,0%	1070,577	1070,383	1068,673	784.547,880	8.180.267,447	1070,313	-2,0%	3,50	1070,273	-2,0%	5,50
2008+0.000	-7,70	-2,0%	1070,436	-9,70	-2,0%	1070,476	1070,282	1068,576	784.564,949	8.180.257,024	1070,212	-2,0%	3,50	1070,172	-2,0%	5,50
2009+0.000	-7,70	-2,0%	1070,335	-9,70	-2,0%	1070,375	1070,181	1068,461	784.582,018	8.180.246,601	1070,111	-2,0%	3,50	1070,071	-2,0%	5,50
2010+0.000	-7,70	-2,0%	1070,234	-9,70	-2,0%	1070,274	1070,080	1068,366	784.599,088	8.180.236,178	1070,010	-2,0%	3,50	1069,970	-2,0%	5,50
2011+0.000	-7,70	-2,0%	1070,133	-9,70	-2,0%	1070,173	1069,979	1068,275	784.616,157	8.180.225,755	1069,909	-2,0%	3,50	1069,869	-2,0%	5,50
2012+0.000	-7,70	-2,0%	1070,032	-9,70	-2,0%	1070,072	1069,878	1068,164	784.633,226	8.180.215,332	1069,808	-2,0%	3,50	1069,768	-2,0%	5,50
2013+0.000	-7,70	-2,0%	1069,931	-9,70	-2,0%	1069,971	1069,777	1068,107	784.650,296	8.180.204,910	1069,707	-2,0%	3,50	1069,667	-2,0%	5,50
2014+0.000	-7,70	-2,0%	1069,830	-9,70	-2,0%	1069,870	1069,676	1068,025	784.667,365	8.180.194,487	1069,606	-2,0%	3,50	1069,566	-2,0%	5,50
2015+0.000	-7,70	-2,0%	1069,732	-9,70	-2,0%	1069,772	1069,578	1067,974	784.684,424	8.180.184,047	1069,508	-2,0%	3,50	1069,468	-2,0%	5,50
2016+0.000	-7,70	-2,0%	1069,684	-9,70	-2,0%	1069,724	1069,530	1068,012	784.701,443	8.180.173,542	1069,460	-2,0%	3,50	1069,420	-2,0%	5,50
2017+0.000	-7,70	-2,0%	1069,705	-9,70	-2,0%	1069,745	1069,551	1068,011	784.718,420	8.180.162,969	1069,481	-2,0%	3,50	1069,441	-2,0%	5,50
2018+0.000	-7,70	-2,0%	1069,790	-9,70	-2,0%	1069,830	1069,636	1068,011	784.735,354	8.180.152,328	1069,566	-2,0%	3,50	1069,526	-2,0%	5,50
2019+0.000	-7,70	-2,0%	1069,892	-9,70	-2,0%	1069,932	1069,738	1067,821	784.752,246	8.180.141,619	1069,668	-2,0%	3,50	1069,628	-2,0%	5,50
2020+0.000	-7,70	-2,0%	1069,994	-9,70	-2,0%	1070,034	1069,840	1067,755	784.769,094	8.180.130,843	1069,770	-2,0%	3,50	1069,730	-2,0%	5,50
2021+0.000	-7,70	-2,0%	1070,096	-9,70	-2,0%	1070,136	1069,942	1067,736	784.785,900	8.180.120,000	1069,872	-2,0%	3,50	1069,832	-2,0%	5,50
2022+0.000	-7,70	-2,0%	1070,198	-9,70	-2,0%	1070,238	1070,044	1067,728	784.802,661	8.180.109,089	1069,974	-2,0%	3,50	1069,934	-2,0%	5,50
2023+0.000	-7,70	-2,0%	1070,300	-9,70	-2,0%	1070,340	1070,146	1067,712	784.819,380	8.180.098,112	1070,076	-2,0%	3,50	1070,036	-2,0%	5,50
2024+0.000	-7,70	-2,0%	1070,402	-9,70	-2,0%	1070,442	1070,248	1067,665	784.836,054	8.180.087,068	1070,178	-2,0%	3,50	1070,138	-2,0%	5,50
2025+0.000	-7,70	-2,0%	1070,478	-9,70	-2,0%	1070,518	1070,324	1067,747	784.852,689	8.180.075,965	1070,254	-2,0%	3,50	1070,214	-2,0%	5,50
2026+0.000	-7,70	-2,0%	1070,513	-9,70	-2,0%	1070,553	1070,359	1067,728	784.869,319	8.180.064,854	1070,289	-2,0%	3,50	1070,249	-2,0%	5,50
2027+0.000	-7,70	-2,0%	1070,508	-9,70	-2,0%	1070,548	1070,354	1067,693	784.885,948	8.180.053,743	1070,284	-2,0%	3,50	1070,244	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

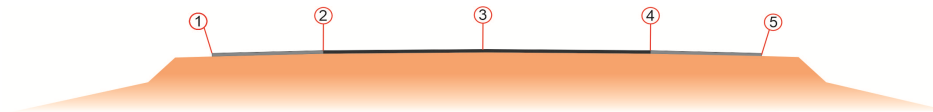
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2028+0.000	-7,70	-2,0%	1070,462	-9,70	-2,0%	1070,502	1070,308	1067,666	784.902,578	8.180.042,632	1070,238	-2,0%	3,50	1070,198	-2,0%	5,50
2029+0.000	-7,70	-2,0%	1070,374	-9,70	-2,0%	1070,414	1070,220	1067,489	784.919,208	8.180.031,521	1070,150	-2,0%	3,50	1070,110	-2,0%	5,50
2030+0.000	-7,70	-2,0%	1070,272	-9,70	-2,0%	1070,312	1070,118	1067,598	784.935,837	8.180.020,410	1070,048	-2,0%	3,50	1070,008	-2,0%	5,50
2031+0.000	-7,70	-2,0%	1070,169	-9,70	-2,0%	1070,209	1070,015	1067,736	784.952,467	8.180.009,299	1069,945	-2,0%	3,50	1069,905	-2,0%	5,50
2032+0.000	-7,70	-2,0%	1070,066	-9,70	-2,0%	1070,106	1069,912	1067,717	784.969,096	8.179.998,188	1069,842	-2,0%	3,50	1069,802	-2,0%	5,50
2033+0.000	-7,70	-2,0%	1069,963	-9,70	-2,0%	1070,003	1069,809	1067,902	784.985,726	8.179.987,077	1069,739	-2,0%	3,50	1069,699	-2,0%	5,50
2034+0.000	-7,70	-2,0%	1069,860	-9,70	-2,0%	1069,900	1069,706	1068,069	785.002,356	8.179.975,966	1069,636	-2,0%	3,50	1069,596	-2,0%	5,50
2035+0.000	-7,70	-2,0%	1069,757	-9,70	-2,0%	1069,797	1069,603	1068,097	785.018,985	8.179.964,855	1069,533	-2,0%	3,50	1069,493	-2,0%	5,50
2036+0.000	-7,70	-2,0%	1069,658	-9,70	-2,0%	1069,698	1069,504	1068,154	785.035,615	8.179.953,744	1069,434	-2,0%	3,50	1069,394	-2,0%	5,50
2037+0.000	-7,70	-2,0%	1069,612	-9,70	-2,0%	1069,652	1069,458	1068,298	785.052,245	8.179.942,633	1069,388	-2,0%	3,50	1069,348	-2,0%	5,50
2038+0.000	-7,70	-2,0%	1069,635	-9,70	-2,0%	1069,675	1069,481	1068,406	785.068,874	8.179.931,522	1069,411	-2,0%	3,50	1069,371	-2,0%	5,50
2039+0.000	-7,70	-2,0%	1069,723	-9,70	-2,0%	1069,763	1069,569	1068,440	785.085,504	8.179.920,411	1069,499	-2,0%	3,50	1069,459	-2,0%	5,50
2040+0.000	-7,70	-2,0%	1069,827	-9,70	-2,0%	1069,867	1069,673	1068,480	785.102,134	8.179.909,300	1069,603	-2,0%	3,50	1069,563	-2,0%	5,50
2041+0.000	-7,70	-2,0%	1069,931	-9,70	-2,0%	1069,971	1069,777	1068,703	785.118,763	8.179.898,189	1069,707	-2,0%	3,50	1069,667	-2,0%	5,50
2042+0.000	-7,70	-2,0%	1070,035	-9,70	-2,0%	1070,075	1069,881	1068,816	785.135,393	8.179.887,078	1069,811	-2,0%	3,50	1069,771	-2,0%	5,50
2043+0.000	-7,70	-2,0%	1070,139	-9,70	-2,0%	1070,179	1069,985	1069,175	785.152,023	8.179.875,967	1069,915	-2,0%	3,50	1069,875	-2,0%	5,50
2044+0.000	-7,70	-2,0%	1070,243	-9,70	-2,0%	1070,283	1070,089	1069,187	785.168,652	8.179.864,856	1070,019	-2,0%	3,50	1069,979	-2,0%	5,50
2045+0.000	-7,70	-2,0%	1070,348	-9,70	-2,0%	1070,388	1070,194	1069,295	785.185,282	8.179.853,745	1070,124	-2,0%	3,50	1070,084	-2,0%	5,50
2046+0.000	-7,70	-2,0%	1070,452	-9,70	-2,0%	1070,492	1070,298	1069,427	785.201,912	8.179.842,634	1070,228	-2,0%	3,50	1070,188	-2,0%	5,50
2047+0.000	-7,70	-2,0%	1070,556	-9,70	-2,0%	1070,596	1070,402	1069,337	785.218,541	8.179.831,523	1070,332	-2,0%	3,50	1070,292	-2,0%	5,50
2048+0.000	-7,70	-2,0%	1070,660	-9,70	-2,0%	1070,700	1070,506	1069,674	785.235,171	8.179.820,412	1070,436	-2,0%	3,50	1070,396	-2,0%	5,50
2049+0.000	-7,70	-2,0%	1070,764	-9,70	-2,0%	1070,804	1070,610	1069,663	785.251,801	8.179.809,301	1070,540	-2,0%	3,50	1070,500	-2,0%	5,50
2050+0.000	-7,70	-2,0%	1070,868	-9,70	-2,0%	1070,908	1070,714	1069,718	785.268,430	8.179.798,190	1070,644	-2,0%	3,50	1070,604	-2,0%	5,50
2051+0.000	-7,70	-2,0%	1070,972	-9,70	-2,0%	1071,012	1070,818	1070,051	785.285,060	8.179.787,079	1070,748	-2,0%	3,50	1070,708	-2,0%	5,50
2052+0.000	-7,70	-2,0%	1071,076	-9,70	-2,0%	1071,116	1070,922	1070,034	785.301,690	8.179.775,968	1070,852	-2,0%	3,50	1070,812	-2,0%	5,50
2053+0.000	-7,70	-2,0%	1071,180	-9,70	-2,0%	1071,220	1071,026	1070,143	785.318,319	8.179.764,857	1070,956	-2,0%	3,50	1070,916	-2,0%	5,50
2054+0.000	-7,70	-2,0%	1071,284	-9,70	-2,0%	1071,324	1071,130	1070,088	785.334,949	8.179.753,746	1071,060	-2,0%	3,50	1071,020	-2,0%	5,50
2055+0.000	-7,70	-2,0%	1071,388	-9,70	-2,0%	1071,428	1071,234	1070,362	785.351,579	8.179.742,635	1071,164	-2,0%	3,50	1071,124	-2,0%	5,50
2056+0.000	-7,70	-2,0%	1071,492	-9,70	-2,0%	1071,532	1071,338	1070,403	785.368,208	8.179.731,524	1071,268	-2,0%	3,50	1071,228	-2,0%	5,50
2057+0.000	-7,70	-2,0%	1071,596	-9,70	-2,0%	1071,636	1071,442	1070,687	785.384,838	8.179.720,413	1071,372	-2,0%	3,50	1071,332	-2,0%	5,50
2058+0.000	-7,70	-2,0%	1071,700	-9,70	-2,0%	1071,740	1071,546	1070,586	785.401,467	8.179.709,302	1071,476	-2,0%	3,50	1071,436	-2,0%	5,50
2059+0.000	-7,70	-2,0%	1071,804	-9,70	-2,0%	1071,844	1071,650	1070,829	785.418,097	8.179.698,191	1071,580	-2,0%	3,50	1071,540	-2,0%	5,50
2060+0.000	-7,70	-2,0%	1071,908	-9,70	-2,0%	1071,948	1071,754	1070,952	785.434,727	8.179.687,080	1071,684	-2,0%	3,50	1071,644	-2,0%	5,50
2061+0.000	-7,70	-2,0%	1072,012	-9,70	-2,0%	1072,052	1071,858	1071,066	785.451,356	8.179.675,969	1071,788	-2,0%	3,50	1071,748	-2,0%	5,50
2062+0.000	-7,70	-2,0%	1072,116	-9,70	-2,0%	1072,156	1071,962	1071,195	785.467,986	8.179.664,858	1071,892	-2,0%	3,50	1071,852	-2,0%	5,50
2063+0.000	-7,70	-2,0%	1072,220	-9,70	-2,0%	1072,260	1072,066	1071,211	785.484,616	8.179.653,747	1071,996	-2,0%	3,50	1071,956	-2,0%	5,50
2064+0.000	-7,70	-2,0%	1072,324	-9,70	-2,0%	1072,364	1072,170	1071,247	785.501,245	8.179.642,636	1072,100	-2,0%	3,50	1072,060	-2,0%	5,50
2065+0.000	-7,70	-2,0%	1072,428	-9,70	-2,0%	1072,468	1072,274	1071,015	785.517,875	8.179.631,525	1072,204	-2,0%	3,50	1072,164	-2,0%	5,50
2066+0.000	-7,70	-2,0%	1072,532	-9,70	-2,0%	1072,572	1072,378	1071,088	785.534,505	8.179.620,413	1072,308	-2,0%	3,50	1072,268	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

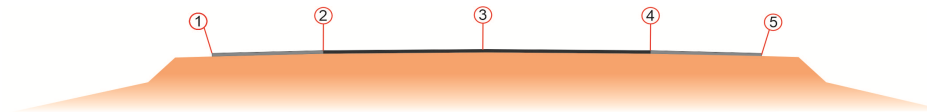
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2067+0.000	-7,70	-2,0%	1072,636	-9,70	-2,0%	1072,676	1072,482	1071,173	785.551,134	8.179.609,302	1072,412	-2,0%	3,50	1072,372	-2,0%	5,50
2068+0.000	-7,70	-2,0%	1072,740	-9,70	-2,0%	1072,780	1072,586	1071,188	785.567,764	8.179.598,191	1072,516	-2,0%	3,50	1072,476	-2,0%	5,50
2069+0.000	-7,70	-2,0%	1072,844	-9,70	-2,0%	1072,884	1072,690	1071,235	785.584,394	8.179.587,080	1072,620	-2,0%	3,50	1072,580	-2,0%	5,50
2070+0.000	-7,70	-2,0%	1072,948	-9,70	-2,0%	1072,988	1072,794	1071,257	785.601,023	8.179.575,969	1072,724	-2,0%	3,50	1072,684	-2,0%	5,50
2071+0.000	-7,70	-2,0%	1073,052	-9,70	-2,0%	1073,092	1072,898	1071,561	785.617,653	8.179.564,858	1072,828	-2,0%	3,50	1072,788	-2,0%	5,50
2072+0.000	-7,70	-2,0%	1073,156	-9,70	-2,0%	1073,196	1073,002	1071,520	785.634,283	8.179.553,747	1072,932	-2,0%	3,50	1072,892	-2,0%	5,50
2073+0.000	-7,70	-2,0%	1073,261	-9,70	-2,0%	1073,301	1073,107	1071,685	785.650,912	8.179.542,636	1073,037	-2,0%	3,50	1072,997	-2,0%	5,50
2074+0.000	-7,70	-2,0%	1073,365	-9,70	-2,0%	1073,405	1073,211	1071,666	785.667,542	8.179.531,525	1073,141	-2,0%	3,50	1073,101	-2,0%	5,50
2075+0.000	-7,70	-2,0%	1073,469	-9,70	-2,0%	1073,509	1073,315	1071,638	785.684,172	8.179.520,414	1073,245	-2,0%	3,50	1073,205	-2,0%	5,50
2076+0.000	-7,70	-2,0%	1073,573	-9,70	-2,0%	1073,613	1073,419	1071,787	785.700,801	8.179.509,303	1073,349	-2,0%	3,50	1073,309	-2,0%	5,50
2077+0.000	-7,70	-2,0%	1073,677	-9,70	-2,0%	1073,717	1073,523	1071,831	785.717,431	8.179.498,192	1073,453	-2,0%	3,50	1073,413	-2,0%	5,50
2078+0.000	-7,70	-2,0%	1073,781	-9,70	-2,0%	1073,821	1073,627	1071,750	785.734,061	8.179.487,081	1073,557	-2,0%	3,50	1073,517	-2,0%	5,50
2079+0.000	-7,70	-2,0%	1073,885	-9,70	-2,0%	1073,925	1073,731	1071,765	785.750,690	8.179.475,970	1073,661	-2,0%	3,50	1073,621	-2,0%	5,50
2080+0.000	-7,70	-2,0%	1073,989	-9,70	-2,0%	1074,029	1073,835	1071,872	785.767,320	8.179.464,859	1073,765	-2,0%	3,50	1073,725	-2,0%	5,50
2081+0.000	-7,70	-2,0%	1074,093	-9,70	-2,0%	1074,133	1073,939	1071,985	785.783,950	8.179.453,748	1073,869	-2,0%	3,50	1073,829	-2,0%	5,50
2082+0.000	-7,70	-2,0%	1074,197	-9,70	-2,0%	1074,237	1074,043	1072,098	785.802,581	8.179.442,637	1073,973	-2,0%	3,50	1073,933	-2,0%	5,50
2083+0.000	-7,70	-2,0%	1074,301	-9,70	-2,0%	1074,341	1074,147	1072,211	785.821,212	8.179.431,526	1074,077	-2,0%	3,50	1074,037	-2,0%	5,50
2084+0.000	-7,70	-2,0%	1074,405	-9,70	-2,0%	1074,445	1074,251	1072,324	785.840,843	8.179.420,415	1074,181	-2,0%	3,50	1074,141	-2,0%	5,50
2085+0.000	-7,70	-2,0%	1074,509	-9,70	-2,0%	1074,549	1074,355	1072,437	785.860,474	8.179.409,304	1074,285	-2,0%	3,50	1074,245	-2,0%	5,50
2086+0.000	-7,70	-2,0%	1074,613	-9,70	-2,0%	1074,653	1074,459	1072,550	785.880,105	8.179.398,193	1074,389	-2,0%	3,50	1074,349	-2,0%	5,50
2087+0.000	-7,70	-2,0%	1074,717	-9,70	-2,0%	1074,757	1074,563	1072,663	785.900,736	8.179.387,082	1074,493	-2,0%	3,50	1074,453	-2,0%	5,50
2088+0.000	-7,70	-2,0%	1074,821	-9,70	-2,0%	1074,861	1074,667	1072,776	785.921,367	8.179.375,971	1074,597	-2,0%	3,50	1074,557	-2,0%	5,50
2089+0.000	-7,70	-2,0%	1074,925	-9,70	-2,0%	1074,965	1074,771	1072,889	785.942,000	8.179.364,860	1074,701	-2,0%	3,50	1074,661	-2,0%	5,50
2090+0.000	-7,70	-2,0%	1075,029	-9,70	-2,0%	1075,069	1074,875	1072,998	785.962,631	8.179.353,749	1074,805	-2,0%	3,50	1074,765	-2,0%	5,50
2091+0.000	-7,70	-2,0%	1075,133	-9,70	-2,0%	1075,173	1074,979	1073,107	785.983,262	8.179.342,638	1074,909	-2,0%	3,50	1074,869	-2,0%	5,50
2092+0.000	-7,70	-2,0%	1075,237	-9,70	-2,0%	1075,277	1075,083	1073,216	786.003,893	8.179.331,527	1075,013	-2,0%	3,50	1074,973	-2,0%	5,50
2093+0.000	-7,70	-2,0%	1075,341	-9,70	-2,0%	1075,381	1075,187	1073,325	786.024,524	8.179.320,416	1075,117	-2,0%	3,50	1075,077	-2,0%	5,50
2094+0.000	-7,70	-2,0%	1075,445	-9,70	-2,0%	1075,485	1075,291	1073,434	786.045,155	8.179.309,305	1075,221	-2,0%	3,50	1075,181	-2,0%	5,50
2095+0.000	-7,70	-2,0%	1075,549	-9,70	-2,0%	1075,589	1075,395	1073,543	786.065,786	8.179.298,194	1075,325	-2,0%	3,50	1075,285	-2,0%	5,50
2096+0.000	-7,70	-2,0%	1075,653	-9,70	-2,0%	1075,693	1075,499	1073,652	786.086,417	8.179.287,083	1075,429	-2,0%	3,50	1075,389	-2,0%	5,50
2097+0.000	-7,70	-2,0%	1075,757	-9,70	-2,0%	1075,797	1075,603	1073,761	786.107,048	8.179.275,972	1075,533	-2,0%	3,50	1075,493	-2,0%	5,50
2098+0.000	-7,70	-2,0%	1075,861	-9,70	-2,0%	1075,901	1075,707	1073,870	786.127,679	8.179.264,861	1075,637	-2,0%	3,50	1075,597	-2,0%	5,50
2099+0.000	-7,70	-2,0%	1075,965	-9,70	-2,0%	1076,005	1075,811	1073,979	786.148,310	8.179.253,750	1075,741	-2,0%	3,50	1075,701	-2,0%	5,50
2100+0.000	-7,70	-2,0%	1076,069	-9,70	-2,0%	1076,109	1075,915	1074,088	786.168,941	8.179.242,639	1075,845	-2,0%	3,50	1075,805	-2,0%	5,50
2101+0.000	-7,70	-2,0%	1076,173	-9,70	-2,0%	1076,213	1076,019	1074,197	786.189,572	8.179.231,528	1075,949	-2,0%	3,50	1075,909	-2,0%	5,50
2102+0.000	-7,70	-2,0%	1076,277	-9,70	-2,0%	1076,317	1076,123	1074,306	786.210,203	8.179.220,417	1076,053	-2,0%	3,50	1076,013	-2,0%	5,50
2103+0.000	-7,70	-2,0%	1076,381	-9,70	-2,0%	1076,421	1076,227	1074,415	786.230,834	8.179.209,306	1076,157	-2,0%	3,50	1076,117	-2,0%	5,50
2104+0.000	-7,70	-2,0%	1076,485	-9,70	-2,0%	1076,525	1076,331	1074,524	786.251,465	8.179.198,195	1076,261	-2,0%	3,50	1076,221	-2,0%	5,50
2105+0.000	-7,70	-2,0%	1076,589	-9,70	-2,0%	1076,629	1076,435	1074,633	786.272,096	8.179.187,084	1076,365	-2,0%	3,50	1076,325	-2,0%	5,50



Notas-de-Serviço de Pavimentação

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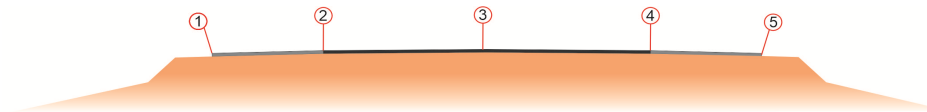
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2106+0.000	-7,70	-2,0%	1075,171	-9,70	-2,0%	1075,211	1075,017	1072,716	786.199,691	8.179.175,973	1074,947	-2,0%	3,50	1074,907	-2,0%	5,50
2107+0.000	-7,70	-2,0%	1075,271	-9,70	-2,0%	1075,311	1075,117	1072,886	786.216,321	8.179.164,862	1075,047	-2,0%	3,50	1075,007	-2,0%	5,50
2108+0.000	-7,70	-2,0%	1075,370	-9,70	-2,0%	1075,410	1075,216	1072,882	786.232,950	8.179.153,751	1075,146	-2,0%	3,50	1075,106	-2,0%	5,50
2109+0.000	-7,70	-2,0%	1075,465	-9,70	-2,0%	1075,505	1075,311	1072,946	786.249,580	8.179.142,640	1075,241	-2,0%	3,50	1075,201	-2,0%	5,50
2110+0.000	-7,70	-2,0%	1075,524	-9,70	-2,0%	1075,564	1075,370	1072,983	786.266,210	8.179.131,529	1075,300	-2,0%	3,50	1075,260	-2,0%	5,50
2111+0.000	-7,70	-2,0%	1075,544	-9,70	-2,0%	1075,584	1075,390	1073,082	786.282,839	8.179.120,418	1075,320	-2,0%	3,50	1075,280	-2,0%	5,50
2112+0.000	-7,70	-2,0%	1075,524	-9,70	-2,0%	1075,564	1075,370	1073,051	786.299,469	8.179.109,307	1075,300	-2,0%	3,50	1075,260	-2,0%	5,50
2113+0.000	-7,70	-2,0%	1075,465	-9,70	-2,0%	1075,505	1075,311	1073,220	786.316,099	8.179.098,196	1075,241	-2,0%	3,50	1075,201	-2,0%	5,50
2114+0.000	-7,70	-2,0%	1075,372	-9,70	-2,0%	1075,412	1075,218	1073,170	786.332,728	8.179.087,085	1075,148	-2,0%	3,50	1075,108	-2,0%	5,50
2115+0.000	-7,70	-2,0%	1075,274	-9,70	-2,0%	1075,314	1075,120	1073,357	786.349,358	8.179.075,974	1075,050	-2,0%	3,50	1075,010	-2,0%	5,50
2116+0.000	-7,70	-2,0%	1075,176	-9,70	-2,0%	1075,216	1075,022	1073,489	786.365,987	8.179.064,863	1074,952	-2,0%	3,50	1074,912	-2,0%	5,50
2117+0.000	-7,70	-2,0%	1075,078	-9,70	-2,0%	1075,118	1074,924	1073,415	786.382,617	8.179.053,752	1074,854	-2,0%	3,50	1074,814	-2,0%	5,50
2118+0.000	-7,70	-2,0%	1074,981	-9,70	-2,0%	1075,021	1074,827	1073,589	786.399,247	8.179.042,641	1074,757	-2,0%	3,50	1074,717	-2,0%	5,50
2119+0.000	-7,70	-2,0%	1074,883	-9,70	-2,0%	1074,923	1074,729	1073,732	786.415,876	8.179.031,530	1074,659	-2,0%	3,50	1074,619	-2,0%	5,50
2120+0.000	-7,70	-2,0%	1074,785	-9,70	-2,0%	1074,825	1074,631	1073,724	786.432,506	8.179.020,419	1074,561	-2,0%	3,50	1074,521	-2,0%	5,50
2121+0.000	-7,70	-2,0%	1074,688	-9,70	-2,0%	1074,728	1074,534	1073,885	786.449,136	8.179.009,308	1074,464	-2,0%	3,50	1074,424	-2,0%	5,50
2122+0.000	-7,70	-2,0%	1074,627	-9,70	-2,0%	1074,667	1074,473	1073,878	786.465,765	8.178.998,197	1074,403	-2,0%	3,50	1074,363	-2,0%	5,50
2123+0.000	-7,70	-2,0%	1074,628	-9,70	-2,0%	1074,668	1074,474	1073,979	786.482,395	8.178.987,086	1074,404	-2,0%	3,50	1074,364	-2,0%	5,50
2124+0.000	-7,70	-2,0%	1074,692	-9,70	-2,0%	1074,732	1074,538	1074,036	786.499,025	8.178.975,975	1074,468	-2,0%	3,50	1074,428	-2,0%	5,50
2125+0.000	-7,70	-2,0%	1074,817	-9,70	-2,0%	1074,857	1074,663	1074,222	786.515,654	8.178.964,864	1074,593	-2,0%	3,50	1074,553	-2,0%	5,50
2126+0.000	-7,70	-2,0%	1075,005	-9,70	-2,0%	1075,045	1074,851	1074,250	786.532,284	8.178.953,753	1074,781	-2,0%	3,50	1074,741	-2,0%	5,50
2127+0.000	-7,70	-2,0%	1075,218	-9,70	-2,0%	1075,258	1075,064	1074,497	786.548,914	8.178.942,642	1074,994	-2,0%	3,50	1074,954	-2,0%	5,50
2128+0.000	-7,70	-2,0%	1075,431	-9,70	-2,0%	1075,471	1075,277	1074,536	786.565,543	8.178.931,531	1075,207	-2,0%	3,50	1075,167	-2,0%	5,50
2129+0.000	-7,70	-2,0%	1075,645	-9,70	-2,0%	1075,685	1075,491	1074,661	786.582,173	8.178.920,420	1075,421	-2,0%	3,50	1075,381	-2,0%	5,50
2130+0.000	-7,70	-2,0%	1075,858	-9,70	-2,0%	1075,898	1075,704	1074,794	786.598,803	8.178.909,309	1075,634	-2,0%	3,50	1075,594	-2,0%	5,50
2131+0.000	-7,70	-2,0%	1076,071	-9,70	-2,0%	1076,111	1075,917	1075,044	786.615,432	8.178.898,198	1075,847	-2,0%	3,50	1075,807	-2,0%	5,50
2132+0.000	-7,70	-2,0%	1076,284	-9,70	-2,0%	1076,324	1076,130	1075,139	786.632,062	8.178.887,087	1076,060	-2,0%	3,50	1076,020	-2,0%	5,50
2133+0.000	-7,70	-2,0%	1076,497	-9,70	-2,0%	1076,537	1076,343	1075,248	786.648,692	8.178.875,976	1076,273	-2,0%	3,50	1076,233	-2,0%	5,50
2134+0.000	-7,70	-2,0%	1076,711	-9,70	-2,0%	1076,751	1076,557	1075,480	786.665,321	8.178.864,865	1076,487	-2,0%	3,50	1076,447	-2,0%	5,50
2135+0.000	-7,70	-2,0%	1076,924	-9,70	-2,0%	1076,964	1076,770	1075,702	786.681,951	8.178.853,754	1076,700	-2,0%	3,50	1076,660	-2,0%	5,50
2136+0.000	-7,70	-2,0%	1077,137	-9,70	-2,0%	1077,177	1076,983	1075,814	786.698,581	8.178.842,643	1076,913	-2,0%	3,50	1076,873	-2,0%	5,50
2137+0.000	-7,70	-2,0%	1077,350	-9,70	-2,0%	1077,390	1077,196	1076,001	786.715,210	8.178.831,532	1077,126	-2,0%	3,50	1077,086	-2,0%	5,50
2138+0.000	-7,70	-2,0%	1077,564	-9,70	-2,0%	1077,604	1077,410	1076,022	786.731,840	8.178.820,421	1077,340	-2,0%	3,50	1077,300	-2,0%	5,50
2139+0.000	-7,70	-2,0%	1077,777	-9,70	-2,0%	1077,817	1077,623	1076,259	786.748,470	8.178.809,310	1077,553	-2,0%	3,50	1077,513	-2,0%	5,50
2140+0.000	-7,70	-2,0%	1077,990	-9,70	-2,0%	1078,030	1077,836	1076,432	786.765,099	8.178.798,199	1077,766	-2,0%	3,50	1077,726	-2,0%	5,50
2141+0.000	-7,70	-2,0%	1078,203	-9,70	-2,0%	1078,243	1078,049	1076,693	786.781,729	8.178.787,088	1077,979	-2,0%	3,50	1077,939	-2,0%	5,50
2142+0.000	-7,70	-2,0%	1078,417	-9,70	-2,0%	1078,457	1078,263	1076,878	786.798,359	8.178.775,977	1078,193	-2,0%	3,50	1078,153	-2,0%	5,50
2143+0.000	-7,70	-2,0%	1078,630	-9,70	-2,0%	1078,670	1078,476	1077,176	786.814,988	8.178.764,866	1078,406	-2,0%	3,50	1078,366	-2,0%	5,50
2144+0.000	-7,70	-2,0%	1078,843	-9,70	-2,0%	1078,883	1078,689	1077,458	786.831,618	8.178.753,755	1078,619	-2,0%	3,50	1078,579	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

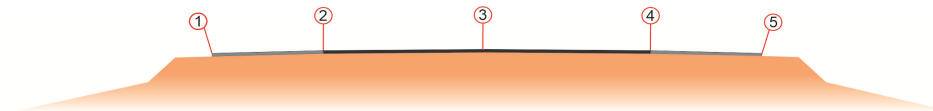
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2145+0.000	-7,70	-2,0%	1079,056	-9,70	-2,0%	1079,096	1078,902	1077,709	786.848,247	8.178.742,644	1078,832	-2,0%	3,50	1078,792	-2,0%	5,50
2146+0.000	-7,70	-2,0%	1079,269	-9,70	-2,0%	1079,309	1079,115	1077,988	786.864,877	8.178.731,533	1079,045	-2,0%	3,50	1079,005	-2,0%	5,50
2147+0.000	-7,70	-2,0%	1079,483	-9,70	-2,0%	1079,523	1079,329	1078,410	786.881,507	8.178.720,422	1079,259	-2,0%	3,50	1079,219	-2,0%	5,50
2148+0.000	-7,70	-2,0%	1079,696	-9,70	-2,0%	1079,736	1079,542	1078,431	786.898,136	8.178.709,311	1079,472	-2,0%	3,50	1079,432	-2,0%	5,50
2149+0.000	-7,70	-2,0%	1079,909	-9,70	-2,0%	1079,949	1079,755	1078,825	786.914,766	8.178.698,200	1079,685	-2,0%	3,50	1079,645	-2,0%	5,50
2150+0.000	-7,70	-2,0%	1080,122	-9,70	-2,0%	1080,162	1079,968	1079,099	786.931,396	8.178.687,089	1079,898	-2,0%	3,50	1079,858	-2,0%	5,50
2151+0.000	-7,70	-2,0%	1080,336	-9,70	-2,0%	1080,376	1080,182	1079,303	786.948,025	8.178.675,978	1080,112	-2,0%	3,50	1080,072	-2,0%	5,50
2152+0.000	-7,70	-2,0%	1080,549	-9,70	-2,0%	1080,589	1080,395	1079,570	786.964,655	8.178.664,867	1080,325	-2,0%	3,50	1080,285	-2,0%	5,50
2153+0.000	-7,70	-2,0%	1080,762	-9,70	-2,0%	1080,802	1080,608	1079,931	786.981,285	8.178.653,756	1080,538	-2,0%	3,50	1080,498	-2,0%	5,50
2154+0.000	-7,70	-2,0%	1080,975	-9,70	-2,0%	1081,015	1080,821	1080,106	786.997,914	8.178.642,645	1080,751	-2,0%	3,50	1080,711	-2,0%	5,50
2155+0.000	-7,70	-2,0%	1081,189	-9,70	-2,0%	1081,229	1081,035	1080,465	787.014,544	8.178.631,533	1080,965	-2,0%	3,50	1080,925	-2,0%	5,50
2156+0.000	-7,70	-2,0%	1081,402	-9,70	-2,0%	1081,442	1081,248	1080,684	787.031,174	8.178.620,422	1081,178	-2,0%	3,50	1081,138	-2,0%	5,50
2157+0.000	-7,70	-2,0%	1081,615	-9,70	-2,0%	1081,655	1081,461	1080,924	787.047,803	8.178.609,311	1081,391	-2,0%	3,50	1081,351	-2,0%	5,50
2158+0.000	-7,70	-2,0%	1081,828	-9,70	-2,0%	1081,868	1081,674	1081,003	787.064,433	8.178.598,200	1081,604	-2,0%	3,50	1081,564	-2,0%	5,50
2159+0.000	-7,70	-2,0%	1082,041	-9,70	-2,0%	1082,081	1081,887	1081,132	787.081,063	8.178.587,089	1081,817	-2,0%	3,50	1081,777	-2,0%	5,50
2160+0.000	-7,70	-2,0%	1082,255	-9,70	-2,0%	1082,295	1082,101	1081,255	787.097,692	8.178.575,978	1082,031	-2,0%	3,50	1081,991	-2,0%	5,50
2161+0.000	-7,70	-2,0%	1082,464	-9,70	-2,0%	1082,504	1082,310	1081,345	787.114,322	8.178.564,867	1082,240	-2,0%	3,50	1082,200	-2,0%	5,50
2162+0.000	-7,70	-2,0%	1082,657	-9,70	-2,0%	1082,697	1082,503	1081,523	787.130,952	8.178.553,756	1082,433	-2,0%	3,50	1082,393	-2,0%	5,50
2163+0.000	-7,70	-2,0%	1082,834	-9,70	-2,0%	1082,874	1082,680	1081,677	787.147,581	8.178.542,645	1082,610	-2,0%	3,50	1082,570	-2,0%	5,50
2164+0.000	-7,70	-2,0%	1082,994	-9,70	-2,0%	1083,034	1082,840	1081,754	787.164,211	8.178.531,534	1082,770	-2,0%	3,50	1082,730	-2,0%	5,50
2165+0.000	-7,70	-2,0%	1083,138	-9,70	-2,0%	1083,178	1082,984	1081,898	787.180,841	8.178.520,423	1082,914	-2,0%	3,50	1082,874	-2,0%	5,50
2166+0.000	-7,70	-2,0%	1083,269	-9,70	-2,0%	1083,309	1083,115	1082,014	787.197,470	8.178.509,312	1083,045	-2,0%	3,50	1083,005	-2,0%	5,50
2167+0.000	-7,70	-2,0%	1083,400	-9,70	-2,0%	1083,440	1083,246	1082,155	787.214,100	8.178.498,201	1083,176	-2,0%	3,50	1083,136	-2,0%	5,50
2168+0.000	-7,70	-2,0%	1083,531	-9,70	-2,0%	1083,571	1083,377	1082,372	787.230,730	8.178.487,090	1083,307	-2,0%	3,50	1083,267	-2,0%	5,50
2169+0.000	-7,70	-2,0%	1083,662	-9,70	-2,0%	1083,702	1083,508	1082,513	787.247,359	8.178.475,979	1083,438	-2,0%	3,50	1083,398	-2,0%	5,50
2170+0.000	-7,70	-2,0%	1083,793	-9,70	-2,0%	1083,833	1083,639	1082,651	787.263,989	8.178.464,868	1083,569	-2,0%	3,50	1083,529	-2,0%	5,50
2171+0.000	-7,70	-2,0%	1083,924	-9,70	-2,0%	1083,964	1083,770	1082,647	787.280,619	8.178.453,757	1083,700	-2,0%	3,50	1083,660	-2,0%	5,50
2172+0.000	-7,70	-2,0%	1084,054	-9,70	-2,0%	1084,094	1083,900	1082,939	787.297,248	8.178.442,646	1083,830	-2,0%	3,50	1083,790	-2,0%	5,50
2173+0.000	-7,70	-2,0%	1084,185	-9,70	-2,0%	1084,225	1084,031	1083,008	787.313,878	8.178.431,535	1083,961	-2,0%	3,50	1083,921	-2,0%	5,50
2174+0.000	-7,70	-2,0%	1084,316	-9,70	-2,0%	1084,356	1084,162	1083,140	787.330,507	8.178.420,424	1084,092	-2,0%	3,50	1084,052	-2,0%	5,50
2175+0.000	-7,70	-2,0%	1084,447	-9,70	-2,0%	1084,487	1084,293	1083,292	787.347,137	8.178.409,313	1084,223	-2,0%	3,50	1084,183	-2,0%	5,50
2176+0.000	-7,70	-2,0%	1084,578	-9,70	-2,0%	1084,618	1084,424	1083,453	787.363,767	8.178.398,202	1084,354	-2,0%	3,50	1084,314	-2,0%	5,50
2177+0.000	-7,70	-2,0%	1084,709	-9,70	-2,0%	1084,749	1084,555	1083,553	787.380,396	8.178.387,091	1084,485	-2,0%	3,50	1084,445	-2,0%	5,50
2178+0.000	-7,70	-2,0%	1084,839	-9,70	-2,0%	1084,879	1084,685	1083,655	787.397,026	8.178.375,980	1084,615	-2,0%	3,50	1084,575	-2,0%	5,50
2179+0.000	-7,70	-2,0%	1084,970	-9,70	-2,0%	1085,010	1084,816	1083,788	787.413,656	8.178.364,869	1084,746	-2,0%	3,50	1084,706	-2,0%	5,50
2180+0.000	-7,70	-2,0%	1085,101	-9,70	-2,0%	1085,141	1084,947	1083,912	787.430,285	8.178.353,758	1084,877	-2,0%	3,50	1084,837	-2,0%	5,50
2181+0.000	-7,70	-2,0%	1085,232	-9,70	-2,0%	1085,272	1085,078	1084,213	787.446,915	8.178.342,647	1085,008	-2,0%	3,50	1084,968	-2,0%	5,50
2182+0.000	-7,70	-2,0%	1085,363	-9,70	-2,0%	1085,403	1085,209	1084,252	787.463,545	8.178.331,536	1085,139	-2,0%	3,50	1085,099	-2,0%	5,50
2183+0.000	-7,70	-2,0%	1085,494	-9,70	-2,0%	1085,534	1085,340	1084,252	787.480,174	8.178.320,425	1085,270	-2,0%	3,50	1085,230	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

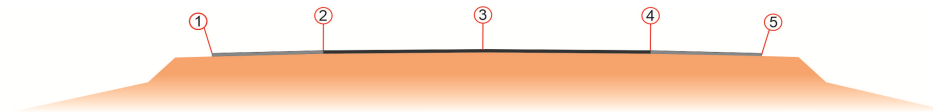
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2184+0.000	-7,70	-2,0%	1085,625	-9,70	-2,0%	1085,665	1085,471	1084,446	787.496,804	8.178.309,314	1085,401	-2,0%	3,50	1085,361	-2,0%	5,50
2185+0.000	-7,70	-2,0%	1085,755	-9,70	-2,0%	1085,795	1085,601	1084,500	787.513,434	8.178.298,203	1085,531	-2,0%	3,50	1085,491	-2,0%	5,50
2186+0.000	-7,70	-2,0%	1085,886	-9,70	-2,0%	1085,926	1085,732	1084,743	787.530,063	8.178.287,092	1085,662	-2,0%	3,50	1085,622	-2,0%	5,50
2187+0.000	-7,70	-2,0%	1086,017	-9,70	-2,0%	1086,057	1085,863	1084,855	787.546,693	8.178.275,981	1085,793	-2,0%	3,50	1085,753	-2,0%	5,50
2188+0.000	-7,70	-2,0%	1086,148	-9,70	-2,0%	1086,188	1085,994	1084,841	787.563,323	8.178.264,870	1085,924	-2,0%	3,50	1085,884	-2,0%	5,50
2189+0.000	-7,70	-2,0%	1086,279	-9,70	-2,0%	1086,319	1086,125	1085,010	787.579,952	8.178.253,759	1086,055	-2,0%	3,50	1086,015	-2,0%	5,50
2190+0.000	-7,70	-2,0%	1086,410	-9,70	-2,0%	1086,450	1086,256	1085,159	787.596,582	8.178.242,648	1086,186	-2,0%	3,50	1086,146	-2,0%	5,50
2191+0.000	-7,70	-2,0%	1086,540	-9,70	-2,0%	1086,580	1086,386	1085,204	787.613,212	8.178.231,537	1086,316	-2,0%	3,50	1086,276	-2,0%	5,50
2192+0.000	-7,70	-2,0%	1086,671	-9,70	-2,0%	1086,711	1086,517	1085,307	787.629,841	8.178.220,426	1086,447	-2,0%	3,50	1086,407	-2,0%	5,50
2193+0.000	-7,70	-2,0%	1086,802	-9,70	-2,0%	1086,842	1086,648	1085,543	787.646,471	8.178.209,315	1086,578	-2,0%	3,50	1086,538	-2,0%	5,50
2194+0.000	-7,70	-2,0%	1086,933	-9,70	-2,0%	1086,973	1086,779	1085,719	787.663,101	8.178.198,204	1086,709	-2,0%	3,50	1086,669	-2,0%	5,50
2195+0.000	-7,70	-2,0%	1087,064	-9,70	-2,0%	1087,104	1086,910	1085,847	787.679,730	8.178.187,093	1086,840	-2,0%	3,50	1086,800	-2,0%	5,50
2196+0.000	-7,70	-2,0%	1087,195	-9,70	-2,0%	1087,235	1087,041	1085,963	787.696,360	8.178.175,982	1086,971	-2,0%	3,50	1086,931	-2,0%	5,50
2197+0.000	-7,70	-2,0%	1087,325	-9,70	-2,0%	1087,365	1087,171	1086,206	787.712,990	8.178.164,871	1087,101	-2,0%	3,50	1087,061	-2,0%	5,50
2198+0.000	-7,70	-2,0%	1087,456	-9,70	-2,0%	1087,496	1087,302	1086,307	787.729,619	8.178.153,760	1087,232	-2,0%	3,50	1087,192	-2,0%	5,50
2199+0.000	-7,70	-2,0%	1087,587	-9,70	-2,0%	1087,627	1087,433	1086,477	787.746,249	8.178.142,649	1087,363	-2,0%	3,50	1087,323	-2,0%	5,50
2200+0.000	-7,70	-2,0%	1087,718	-9,70	-2,0%	1087,758	1087,564	1086,762	787.762,879	8.178.131,538	1087,494	-2,0%	3,50	1087,454	-2,0%	5,50
2201+0.000	-7,70	-2,0%	1087,849	-9,70	-2,0%	1087,889	1087,695	1086,761	787.779,508	8.178.120,427	1087,625	-2,0%	3,50	1087,585	-2,0%	5,50
2202+0.000	-7,70	-2,0%	1087,980	-9,70	-2,0%	1088,020	1087,826	1086,938	787.796,138	8.178.109,316	1087,756	-2,0%	3,50	1087,716	-2,0%	5,50
2203+0.000	-7,70	-2,0%	1088,110	-9,70	-2,0%	1088,150	1087,956	1087,060	787.812,767	8.178.098,205	1087,886	-2,0%	3,50	1087,846	-2,0%	5,50
2204+0.000	-7,70	-2,0%	1088,241	-9,70	-2,0%	1088,281	1088,087	1087,104	787.829,397	8.178.087,094	1088,017	-2,0%	3,50	1087,977	-2,0%	5,50
2205+0.000	-7,70	-2,0%	1088,372	-9,70	-2,0%	1088,412	1088,218	1087,270	787.846,027	8.178.075,983	1088,148	-2,0%	3,50	1088,108	-2,0%	5,50
2206+0.000	-7,70	-2,0%	1088,503	-9,70	-2,0%	1088,543	1088,349	1087,380	787.862,656	8.178.064,872	1088,279	-2,0%	3,50	1088,239	-2,0%	5,50
2207+0.000	-7,70	-2,0%	1088,634	-9,70	-2,0%	1088,674	1088,480	1087,407	787.879,286	8.178.053,761	1088,410	-2,0%	3,50	1088,370	-2,0%	5,50
2208+0.000	-7,70	-2,0%	1088,765	-9,70	-2,0%	1088,805	1088,611	1087,485	787.895,916	8.178.042,650	1088,541	-2,0%	3,50	1088,501	-2,0%	5,50
2209+0.000	-7,70	-2,0%	1088,895	-9,70	-2,0%	1088,935	1088,741	1087,630	787.912,545	8.178.031,539	1088,671	-2,0%	3,50	1088,631	-2,0%	5,50
2210+0.000	-7,70	-2,0%	1089,026	-9,70	-2,0%	1089,066	1088,872	1087,730	787.929,175	8.178.020,428	1088,802	-2,0%	3,50	1088,762	-2,0%	5,50
2211+0.000	-7,70	-2,0%	1089,157	-9,70	-2,0%	1089,197	1089,003	1087,784	787.945,805	8.178.009,317	1088,933	-2,0%	3,50	1088,893	-2,0%	5,50
2212+0.000	-7,70	-2,0%	1089,288	-9,70	-2,0%	1089,328	1089,134	1087,847	787.962,434	8.177.998,206	1089,064	-2,0%	3,50	1089,024	-2,0%	5,50
2213+0.000	-7,70	-2,0%	1089,419	-9,70	-2,0%	1089,459	1089,265	1087,917	787.979,064	8.177.987,095	1089,195	-2,0%	3,50	1089,155	-2,0%	5,50
2214+0.000	-7,70	-2,0%	1089,550	-9,70	-2,0%	1089,590	1089,396	1088,059	787.995,694	8.177.975,984	1089,326	-2,0%	3,50	1089,286	-2,0%	5,50
2215+0.000	-7,70	-2,0%	1089,680	-9,70	-2,0%	1089,720	1089,526	1088,105	788.012,323	8.177.964,873	1089,456	-2,0%	3,50	1089,416	-2,0%	5,50
2216+0.000	-7,70	-2,0%	1089,811	-9,70	-2,0%	1089,851	1089,657	1088,186	788.028,953	8.177.953,762	1089,587	-2,0%	3,50	1089,547	-2,0%	5,50
2217+0.000	-7,70	-2,0%	1089,942	-9,70	-2,0%	1089,982	1089,788	1088,278	788.045,583	8.177.942,651	1089,718	-2,0%	3,50	1089,678	-2,0%	5,50
2218+0.000	-7,70	-2,0%	1090,073	-9,70	-2,0%	1090,113	1089,919	1088,294	788.062,212	8.177.931,540	1089,849	-2,0%	3,50	1089,809	-2,0%	5,50
2219+0.000	-7,70	-2,0%	1090,204	-9,70	-2,0%	1090,244	1090,050	1088,421	788.078,842	8.177.920,429	1089,980	-2,0%	3,50	1089,940	-2,0%	5,50
2220+0.000	-7,70	-2,0%	1090,335	-9,70	-2,0%	1090,375	1090,181	1088,418	788.095,472	8.177.909,318	1090,111	-2,0%	3,50	1090,071	-2,0%	5,50
2221+0.000	-7,70	-2,0%	1090,465	-9,70	-2,0%	1090,505	1090,311	1088,460	788.112,101	8.177.898,207	1090,241	-2,0%	3,50	1090,201	-2,0%	5,50
2222+0.000	-7,70	-2,0%	1090,596	-9,70	-2,0%	1090,636	1090,442	1088,526	788.128,731	8.177.887,096	1090,372	-2,0%	3,50	1090,332	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

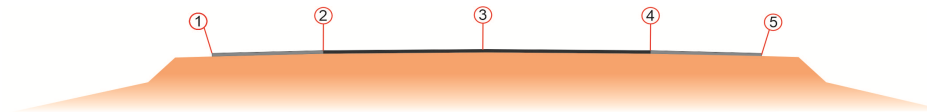
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2223+0.000	-7,70	-2,0%	1090,727	-9,70	-2,0%	1090,767	1090,573	1088,634	788.145,361	8.177.875,985	1090,503	-2,0%	3,50	1090,463	-2,0%	5,50
2224+0.000	-7,70	-2,0%	1090,858	-9,70	-2,0%	1090,898	1090,704	1088,683	788.161,990	8.177.864,874	1090,634	-2,0%	3,50	1090,594	-2,0%	5,50
2225+0.000	-7,70	-2,0%	1090,989	-9,70	-2,0%	1091,029	1090,835	1088,675	788.178,620	8.177.853,763	1090,765	-2,0%	3,50	1090,725	-2,0%	5,50
2226+0.000	-7,70	-2,0%	1091,120	-9,70	-2,0%	1091,160	1090,966	1088,710	788.195,250	8.177.842,652	1090,896	-2,0%	3,50	1090,856	-2,0%	5,50
2227+0.000	-7,70	-2,0%	1091,248	-9,70	-2,0%	1091,288	1091,094	1088,910	788.211,879	8.177.831,541	1091,024	-2,0%	3,50	1090,984	-2,0%	5,50
2228+0.000	-7,70	-2,0%	1091,345	-9,70	-2,0%	1091,385	1091,191	1088,922	788.228,509	8.177.820,430	1091,121	-2,0%	3,50	1091,081	-2,0%	5,50
2229+0.000	-7,70	-2,0%	1091,404	-9,70	-2,0%	1091,444	1091,250	1088,900	788.245,139	8.177.809,319	1091,180	-2,0%	3,50	1091,140	-2,0%	5,50
2230+0.000	-7,70	-2,0%	1091,424	-9,70	-2,0%	1091,464	1091,270	1088,939	788.261,768	8.177.798,208	1091,200	-2,0%	3,50	1091,160	-2,0%	5,50
2231+0.000	-7,70	-2,0%	1091,405	-9,70	-2,0%	1091,445	1091,251	1088,976	788.278,398	8.177.787,097	1091,181	-2,0%	3,50	1091,141	-2,0%	5,50
2232+0.000	-7,70	-2,0%	1091,348	-9,70	-2,0%	1091,388	1091,194	1089,062	788.295,027	8.177.775,986	1091,124	-2,0%	3,50	1091,084	-2,0%	5,50
2233+0.000	-7,70	-2,0%	1091,254	-9,70	-2,0%	1091,294	1091,100	1089,099	788.311,657	8.177.764,875	1091,030	-2,0%	3,50	1090,990	-2,0%	5,50
2234+0.000	-7,70	-2,0%	1091,153	-9,70	-2,0%	1091,193	1090,999	1089,163	788.328,287	8.177.753,764	1090,929	-2,0%	3,50	1090,889	-2,0%	5,50
2235+0.000	-7,70	-2,0%	1091,052	-9,70	-2,0%	1091,092	1090,898	1089,215	788.344,916	8.177.742,653	1090,828	-2,0%	3,50	1090,788	-2,0%	5,50
2236+0.000	-7,70	-2,0%	1090,951	-9,70	-2,0%	1090,991	1090,797	1089,302	788.361,546	8.177.731,542	1090,727	-2,0%	3,50	1090,687	-2,0%	5,50
2237+0.000	-7,70	-2,0%	1090,850	-9,70	-2,0%	1090,890	1090,696	1089,311	788.378,176	8.177.720,431	1090,626	-2,0%	3,50	1090,586	-2,0%	5,50
2238+0.000	-7,70	-2,0%	1090,748	-9,70	-2,0%	1090,788	1090,594	1089,447	788.394,805	8.177.709,320	1090,524	-2,0%	3,50	1090,484	-2,0%	5,50
2239+0.000	-7,70	-2,0%	1090,647	-9,70	-2,0%	1090,687	1090,493	1089,478	788.411,435	8.177.698,209	1090,423	-2,0%	3,50	1090,383	-2,0%	5,50
2240+0.000	-7,70	-2,0%	1090,548	-9,70	-2,0%	1090,588	1090,394	1089,494	788.428,065	8.177.687,098	1090,324	-2,0%	3,50	1090,284	-2,0%	5,50
2241+0.000	-7,70	-2,0%	1090,476	-9,70	-2,0%	1090,516	1090,322	1089,543	788.444,694	8.177.675,987	1090,326	0,1%	3,50	1090,329	0,1%	5,50
2242+0.000	-7,70	-2,0%	1090,437	-9,70	-2,0%	1090,477	1090,283	1089,529	788.461,356	8.177.664,924	1090,353	2,0%	3,50	1090,393	2,0%	5,50
2243+0.000	-7,70	-2,0%	1090,432	-9,70	-2,0%	1090,472	1090,278	1089,590	788.478,124	8.177.654,023	1090,348	2,0%	3,50	1090,388	2,0%	5,50
2244+0.000	-7,70	-2,0%	1090,460	-9,70	-2,0%	1090,500	1090,306	1089,616	788.495,001	8.177.643,291	1090,376	2,0%	3,50	1090,416	2,0%	5,50
2245+0.000	-7,70	-2,0%	1090,522	-9,70	-2,0%	1090,562	1090,368	1089,691	788.511,984	8.177.632,728	1090,438	2,0%	3,50	1090,478	2,0%	5,50
2246+0.000	-7,70	-2,0%	1090,615	-9,70	-2,0%	1090,655	1090,461	1089,775	788.529,072	8.177.622,335	1090,531	2,0%	3,50	1090,571	2,0%	5,50
2247+0.000	-7,70	-2,0%	1090,715	-9,70	-2,0%	1090,755	1090,561	1089,761	788.546,262	8.177.612,114	1090,631	2,0%	3,50	1090,671	2,0%	5,50
2248+0.000	-7,70	-2,0%	1090,815	-9,70	-2,0%	1090,855	1090,661	1089,781	788.563,554	8.177.602,065	1090,731	2,0%	3,50	1090,771	2,0%	5,50
2249+0.000	-7,70	-2,0%	1090,916	-9,70	-2,0%	1090,956	1090,762	1089,783	788.580,946	8.177.592,190	1090,832	2,0%	3,50	1090,872	2,0%	5,50
2250+0.000	-7,70	-2,0%	1091,016	-9,70	-2,0%	1091,056	1090,862	1089,926	788.598,436	8.177.582,489	1090,932	2,0%	3,50	1090,972	2,0%	5,50
2251+0.000	-7,70	-2,0%	1091,116	-9,70	-2,0%	1091,156	1090,962	1089,823	788.616,009	8.177.572,940	1090,939	-0,7%	3,50	1090,925	-0,7%	5,50
2252+0.000	-7,70	-2,0%	1091,216	-9,70	-2,0%	1091,256	1091,062	1089,800	788.633,594	8.177.563,412	1090,992	-2,0%	3,50	1090,952	-2,0%	5,50
2253+0.000	-7,70	-2,0%	1091,317	-9,70	-2,0%	1091,357	1091,163	1089,830	788.651,178	8.177.553,884	1091,093	-2,0%	3,50	1091,053	-2,0%	5,50
2254+0.000	-7,70	-2,0%	1091,417	-9,70	-2,0%	1091,457	1091,263	1089,868	788.668,763	8.177.544,356	1091,193	-2,0%	3,50	1091,153	-2,0%	5,50
2255+0.000	-7,70	-2,0%	1091,517	-9,70	-2,0%	1091,557	1091,363	1089,915	788.686,347	8.177.534,828	1091,293	-2,0%	3,50	1091,253	-2,0%	5,50
2256+0.000	-7,70	-2,0%	1091,617	-9,70	-2,0%	1091,657	1091,463	1089,914	788.703,932	8.177.525,300	1091,393	-2,0%	3,50	1091,353	-2,0%	5,50
2257+0.000	-7,70	-2,0%	1091,718	-9,70	-2,0%	1091,758	1091,564	1089,940	788.721,516	8.177.515,771	1091,494	-2,0%	3,50	1091,454	-2,0%	5,50
2258+0.000	-7,70	-2,0%	1091,818	-9,70	-2,0%	1091,858	1091,664	1089,854	788.739,101	8.177.506,243	1091,594	-2,0%	3,50	1091,554	-2,0%	5,50
2259+0.000	-7,70	-2,0%	1091,918	-9,70	-2,0%	1091,958	1091,764	1090,239	788.756,685	8.177.496,715	1091,694	-2,0%	3,50	1091,654	-2,0%	5,50
2260+0.000	-7,70	-2,0%	1092,018	-9,70	-2,0%	1092,058	1091,864	1090,029	788.774,270	8.177.487,187	1091,794	-2,0%	3,50	1091,754	-2,0%	5,50
2261+0.000	-7,70	-2,0%	1092,118	-9,70	-2,0%	1092,158	1091,964	1090,236	788.791,854	8.177.477,659	1091,894	-2,0%	3,50	1091,854	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

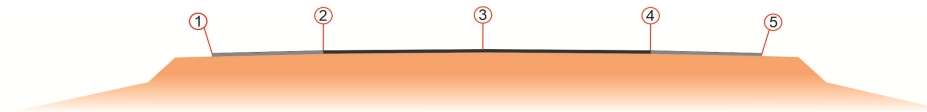
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2262+0.000	-7,70	-2,0%	1092,199	-9,70	-2,0%	1092,239	1092,045	1090,234	788.809,439	8.177.468,131	1091,975	-2,0%	3,50	1091,935	-2,0%	5,50
2263+0.000	-7,70	-2,0%	1092,229	-9,70	-2,0%	1092,269	1092,075	1090,221	788.827,023	8.177.458,603	1092,005	-2,0%	3,50	1091,965	-2,0%	5,50
2264+0.000	-7,70	-2,0%	1092,207	-9,70	-2,0%	1092,247	1092,053	1090,212	788.844,608	8.177.449,074	1091,983	-2,0%	3,50	1091,943	-2,0%	5,50
2265+0.000	-7,70	-2,0%	1092,136	-9,70	-2,0%	1092,176	1091,982	1090,221	788.862,192	8.177.439,546	1091,912	-2,0%	3,50	1091,872	-2,0%	5,50
2266+0.000	-7,70	-2,0%	1092,033	-9,70	-2,0%	1092,073	1091,879	1090,163	788.879,777	8.177.430,018	1091,809	-2,0%	3,50	1091,769	-2,0%	5,50
2267+0.000	-7,70	-2,0%	1091,930	-9,70	-2,0%	1091,970	1091,776	1090,148	788.897,361	8.177.420,490	1091,706	-2,0%	3,50	1091,666	-2,0%	5,50
2268+0.000	-7,70	-2,0%	1091,827	-9,70	-2,0%	1091,867	1091,673	1090,164	788.914,946	8.177.410,962	1091,603	-2,0%	3,50	1091,563	-2,0%	5,50
2269+0.000	-7,70	-2,0%	1091,724	-9,70	-2,0%	1091,764	1091,570	1090,192	788.932,530	8.177.401,434	1091,500	-2,0%	3,50	1091,460	-2,0%	5,50
2270+0.000	-7,70	-2,0%	1091,621	-9,70	-2,0%	1091,661	1091,467	1090,203	788.950,115	8.177.391,906	1091,397	-2,0%	3,50	1091,357	-2,0%	5,50
2271+0.000	-7,70	-2,0%	1091,518	-9,70	-2,0%	1091,558	1091,364	1090,203	788.967,699	8.177.382,377	1091,294	-2,0%	3,50	1091,254	-2,0%	5,50
2272+0.000	-7,70	-2,0%	1091,414	-9,70	-2,0%	1091,454	1091,260	1090,270	788.985,284	8.177.372,849	1091,190	-2,0%	3,50	1091,150	-2,0%	5,50
2273+0.000	-7,70	-2,0%	1091,324	-9,70	-2,0%	1091,364	1091,170	1090,323	789.002,868	8.177.363,321	1091,100	-2,0%	3,50	1091,060	-2,0%	5,50
2274+0.000	-7,70	-2,0%	1091,284	-9,70	-2,0%	1091,324	1091,130	1090,364	789.020,453	8.177.353,793	1091,060	-2,0%	3,50	1091,020	-2,0%	5,50
2275+0.000	-7,70	-2,0%	1091,298	-9,70	-2,0%	1091,338	1091,144	1090,442	789.038,037	8.177.344,265	1091,074	-2,0%	3,50	1091,034	-2,0%	5,50
2276+0.000	-7,70	-2,0%	1091,366	-9,70	-2,0%	1091,406	1091,212	1090,593	789.055,622	8.177.334,737	1091,142	-2,0%	3,50	1091,102	-2,0%	5,50
2277+0.000	-7,70	-2,0%	1091,475	-9,70	-2,0%	1091,515	1091,321	1090,610	789.073,206	8.177.325,209	1091,251	-2,0%	3,50	1091,211	-2,0%	5,50
2278+0.000	-7,70	-2,0%	1091,588	-9,70	-2,0%	1091,628	1091,434	1090,675	789.090,791	8.177.315,680	1091,364	-2,0%	3,50	1091,324	-2,0%	5,50
2279+0.000	-7,70	-2,0%	1091,700	-9,70	-2,0%	1091,740	1091,546	1090,753	789.108,375	8.177.306,152	1091,476	-2,0%	3,50	1091,436	-2,0%	5,50
2280+0.000	-7,70	-2,0%	1091,812	-9,70	-2,0%	1091,852	1091,658	1090,862	789.125,960	8.177.296,624	1091,588	-2,0%	3,50	1091,548	-2,0%	5,50
2281+0.000	-7,70	-2,0%	1091,925	-9,70	-2,0%	1091,965	1091,771	1090,890	789.143,544	8.177.287,096	1091,701	-2,0%	3,50	1091,661	-2,0%	5,50
2282+0.000	-7,70	-2,0%	1092,037	-9,70	-2,0%	1092,077	1091,883	1091,069	789.161,129	8.177.277,568	1091,813	-2,0%	3,50	1091,773	-2,0%	5,50
2283+0.000	-7,70	-2,0%	1092,149	-9,70	-2,0%	1092,189	1091,995	1091,039	789.178,713	8.177.268,040	1091,925	-2,0%	3,50	1091,885	-2,0%	5,50
2284+0.000	-7,70	-2,0%	1092,262	-9,70	-2,0%	1092,302	1092,108	1091,096	789.196,298	8.177.258,512	1092,038	-2,0%	3,50	1091,998	-2,0%	5,50
2285+0.000	-7,70	-2,0%	1092,374	-9,70	-2,0%	1092,414	1092,220	1091,152	789.213,882	8.177.248,983	1092,150	-2,0%	3,50	1092,110	-2,0%	5,50
2286+0.000	-7,70	-2,0%	1092,486	-9,70	-2,0%	1092,526	1092,332	1091,332	789.231,467	8.177.239,455	1092,262	-2,0%	3,50	1092,222	-2,0%	5,50
2287+0.000	-7,70	-2,0%	1092,599	-9,70	-2,0%	1092,639	1092,445	1091,458	789.249,051	8.177.229,927	1092,375	-2,0%	3,50	1092,335	-2,0%	5,50
2288+0.000	-7,70	-2,0%	1092,711	-9,70	-2,0%	1092,751	1092,557	1091,499	789.266,636	8.177.220,399	1092,487	-2,0%	3,50	1092,447	-2,0%	5,50
2289+0.000	-7,70	-2,0%	1092,823	-9,70	-2,0%	1092,863	1092,669	1091,662	789.284,220	8.177.210,871	1092,599	-2,0%	3,50	1092,559	-2,0%	5,50
2290+0.000	-7,70	-2,0%	1092,935	-9,70	-2,0%	1092,975	1092,781	1091,747	789.301,805	8.177.201,343	1092,711	-2,0%	3,50	1092,671	-2,0%	5,50
2291+0.000	-7,70	-2,0%	1093,048	-9,70	-2,0%	1093,088	1092,894	1091,812	789.319,389	8.177.191,815	1092,824	-2,0%	3,50	1092,784	-2,0%	5,50
2292+0.000	-7,70	-2,0%	1093,160	-9,70	-2,0%	1093,200	1093,006	1091,941	789.336,974	8.177.182,286	1092,936	-2,0%	3,50	1092,896	-2,0%	5,50
2293+0.000	-7,70	-2,0%	1093,272	-9,70	-2,0%	1093,312	1093,118	1091,939	789.354,558	8.177.172,758	1093,048	-2,0%	3,50	1093,008	-2,0%	5,50
2294+0.000	-7,70	-2,0%	1093,385	-9,70	-2,0%	1093,425	1093,231	1091,976	789.372,143	8.177.163,230	1093,161	-2,0%	3,50	1093,121	-2,0%	5,50
2295+0.000	-7,70	-2,0%	1093,497	-9,70	-2,0%	1093,537	1093,343	1091,993	789.389,727	8.177.153,702	1093,273	-2,0%	3,50	1093,233	-2,0%	5,50
2296+0.000	-7,70	-2,0%	1093,609	-9,70	-2,0%	1093,649	1093,455	1091,989	789.407,311	8.177.144,174	1093,385	-2,0%	3,50	1093,345	-2,0%	5,50
2297+0.000	-7,70	-2,0%	1093,722	-9,70	-2,0%	1093,762	1093,568	1092,058	789.424,896	8.177.134,646	1093,498	-2,0%	3,50	1093,458	-2,0%	5,50
2298+0.000	-7,70	-2,0%	1093,834	-9,70	-2,0%	1093,874	1093,680	1092,082	789.442,480	8.177.125,118	1093,610	-2,0%	3,50	1093,570	-2,0%	5,50
2299+0.000	-7,70	-2,0%	1093,946	-9,70	-2,0%	1093,986	1093,792	1092,175	789.460,065	8.177.115,589	1093,722	-2,0%	3,50	1093,682	-2,0%	5,50
2300+0.000	-7,70	-2,0%	1094,059	-9,70	-2,0%	1094,099	1093,905	1092,303	789.477,649	8.177.106,061	1093,835	-2,0%	3,50	1093,795	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

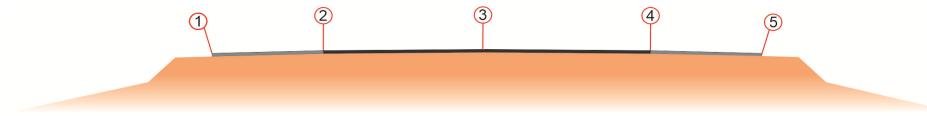
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2301+0.000	-7,70	-2,0%	1094,171	-9,70	-2,0%	1094,211	1094,017	1092,371	789.495,234	8.177.096,533	1093,947	-2,0%	3,50	1093,907	-2,0%	5,50
2302+0.000	-7,70	-2,0%	1094,283	-9,70	-2,0%	1094,323	1094,129	1092,441	789.512,818	8.177.087,005	1094,059	-2,0%	3,50	1094,019	-2,0%	5,50
2303+0.000	-7,70	-2,0%	1094,395	-9,70	-2,0%	1094,435	1094,241	1092,500	789.530,403	8.177.077,477	1094,171	-2,0%	3,50	1094,131	-2,0%	5,50
2304+0.000	-7,70	-2,0%	1094,485	-9,70	-2,0%	1094,525	1094,331	1092,571	789.547,987	8.177.067,949	1094,261	-2,0%	3,50	1094,221	-2,0%	5,50
2305+0.000	-7,70	-0,7%	1094,436	-9,70	-0,7%	1094,449	1094,386	1092,612	789.565,572	8.177.058,421	1094,316	-2,0%	3,50	1094,276	-2,0%	5,50
2306+0.000	-7,70	2,1%	1094,243	-9,70	2,1%	1094,200	1094,405	1092,638	789.583,152	8.177.048,884	1094,331	-2,1%	3,50	1094,289	-2,1%	5,50
2307+0.000	-7,70	4,0%	1094,082	-9,70	4,0%	1094,002	1094,390	1092,632	789.600,546	8.177.039,015	1094,250	-4,0%	3,50	1094,170	-4,0%	5,50
2308+0.000	-7,70	4,0%	1094,031	-9,70	4,0%	1093,951	1094,339	1092,639	789.617,652	8.177.028,652	1094,199	-4,0%	3,50	1094,119	-4,0%	5,50
2309+0.000	-7,70	4,0%	1093,946	-9,70	4,0%	1093,866	1094,254	1092,611	789.634,454	8.177.017,806	1094,114	-4,0%	3,50	1094,034	-4,0%	5,50
2310+0.000	-7,70	4,0%	1093,848	-9,70	4,0%	1093,768	1094,156	1092,667	789.650,940	8.177.006,484	1094,016	-4,0%	3,50	1093,936	-4,0%	5,50
2311+0.000	-7,70	4,0%	1093,751	-9,70	4,0%	1093,671	1094,059	1092,664	789.667,096	8.176.994,695	1093,919	-4,0%	3,50	1093,839	-4,0%	5,50
2312+0.000	-7,70	4,0%	1093,653	-9,70	4,0%	1093,573	1093,961	1092,683	789.682,908	8.176.982,450	1093,821	-4,0%	3,50	1093,741	-4,0%	5,50
2313+0.000	-7,70	4,0%	1093,555	-9,70	4,0%	1093,475	1093,863	1092,701	789.698,364	8.176.969,758	1093,723	-4,0%	3,50	1093,643	-4,0%	5,50
2314+0.000	-7,70	4,0%	1093,457	-9,70	4,0%	1093,377	1093,765	1092,671	789.713,451	8.176.956,629	1093,625	-4,0%	3,50	1093,545	-4,0%	5,50
2315+0.000	-7,70	4,0%	1093,359	-9,70	4,0%	1093,279	1093,667	1092,694	789.728,157	8.176.943,075	1093,527	-4,0%	3,50	1093,447	-4,0%	5,50
2316+0.000	-7,70	4,0%	1093,261	-9,70	4,0%	1093,181	1093,569	1092,737	789.742,469	8.176.929,107	1093,429	-4,0%	3,50	1093,349	-4,0%	5,50
2317+0.000	-7,70	4,0%	1093,163	-9,70	4,0%	1093,083	1093,471	1092,777	789.756,377	8.176.914,735	1093,331	-4,0%	3,50	1093,251	-4,0%	5,50
2318+0.000	-7,70	4,0%	1093,071	-9,70	4,0%	1092,991	1093,379	1092,815	789.769,869	8.176.899,972	1093,239	-4,0%	3,50	1093,159	-4,0%	5,50
2319+0.000	-7,70	3,9%	1093,021	-9,70	3,9%	1092,944	1093,318	1092,821	789.782,933	8.176.884,829	1093,183	-3,9%	3,50	1093,106	-3,9%	5,50
2320+0.000	-7,70	1,1%	1093,205	-9,70	1,1%	1093,183	1093,290	1092,883	789.795,566	8.176.869,325	1093,220	-2,0%	3,50	1093,180	-2,0%	5,50
2321+0.000	-7,70	-1,7%	1093,423	-9,70	-1,7%	1093,456	1093,296	1092,814	789.808,051	8.176.853,700	1093,226	-2,0%	3,50	1093,186	-2,0%	5,50
2322+0.000	-7,70	-2,0%	1093,490	-9,70	-2,0%	1093,530	1093,336	1092,880	789.820,535	8.176.838,075	1093,266	-2,0%	3,50	1093,226	-2,0%	5,50
2323+0.000	-7,70	-2,0%	1093,563	-9,70	-2,0%	1093,603	1093,409	1092,915	789.833,019	8.176.822,450	1093,339	-2,0%	3,50	1093,299	-2,0%	5,50
2324+0.000	-7,70	-2,0%	1093,663	-9,70	-2,0%	1093,703	1093,509	1092,928	789.845,503	8.176.806,825	1093,439	-2,0%	3,50	1093,399	-2,0%	5,50
2325+0.000	-7,70	-2,0%	1093,767	-9,70	-2,0%	1093,807	1093,613	1092,947	789.857,988	8.176.791,200	1093,543	-2,0%	3,50	1093,503	-2,0%	5,50
2326+0.000	-7,70	-2,0%	1093,870	-9,70	-2,0%	1093,910	1093,716	1093,007	789.870,472	8.176.775,575	1093,646	-2,0%	3,50	1093,606	-2,0%	5,50
2327+0.000	-7,70	-2,0%	1093,974	-9,70	-2,0%	1094,014	1093,820	1093,037	789.882,956	8.176.759,950	1093,750	-2,0%	3,50	1093,710	-2,0%	5,50
2328+0.000	-7,70	-2,0%	1094,077	-9,70	-2,0%	1094,117	1093,923	1093,040	789.895,440	8.176.744,325	1093,853	-2,0%	3,50	1093,813	-2,0%	5,50
2329+0.000	-7,70	-2,0%	1094,181	-9,70	-2,0%	1094,221	1094,027	1093,055	789.907,925	8.176.728,700	1093,957	-2,0%	3,50	1093,917	-2,0%	5,50
2330+0.000	-7,70	-2,0%	1094,284	-9,70	-2,0%	1094,324	1094,130	1093,131	789.920,409	8.176.713,075	1094,060	-2,0%	3,50	1094,020	-2,0%	5,50
2331+0.000	-7,70	-2,0%	1094,388	-9,70	-2,0%	1094,428	1094,234	1093,192	789.932,893	8.176.697,449	1094,164	-2,0%	3,50	1094,124	-2,0%	5,50
2332+0.000	-7,70	-2,0%	1094,491	-9,70	-2,0%	1094,531	1094,337	1093,218	789.945,377	8.176.681,824	1094,267	-2,0%	3,50	1094,227	-2,0%	5,50
2333+0.000	-7,70	-2,0%	1094,595	-9,70	-2,0%	1094,635	1094,441	1093,302	789.957,862	8.176.666,199	1094,371	-2,0%	3,50	1094,331	-2,0%	5,50
2334+0.000	-7,70	-2,0%	1094,698	-9,70	-2,0%	1094,738	1094,544	1093,335	789.970,346	8.176.650,574	1094,474	-2,0%	3,50	1094,434	-2,0%	5,50
2335+0.000	-7,70	-2,0%	1094,802	-9,70	-2,0%	1094,842	1094,648	1093,376	789.982,830	8.176.634,949	1094,602	-1,3%	3,50	1094,575	-1,3%	5,50
2336+0.000	-7,70	-2,0%	1094,905	-9,70	-2,0%	1094,945	1094,751	1093,422	789.995,315	8.176.619,324	1094,803	1,5%	3,50	1094,832	1,5%	5,50
2337+0.000	-7,70	-4,2%	1095,178	-9,70	-4,2%	1095,262	1094,855	1093,529	790.008,001	8.176.603,864	1095,002	4,2%	3,50	1095,086	4,2%	5,50
2338+0.000	-7,70	-4,2%	1095,281	-9,70	-4,2%	1095,365	1094,958	1093,566	790.021,149	8.176.588,794	1095,105	4,2%	3,50	1095,189	4,2%	5,50
2339+0.000	-7,70	-4,2%	1095,385	-9,70	-4,2%	1095,469	1095,062	1093,601	790.034,747	8.176.574,129	1095,209	4,2%	3,50	1095,293	4,2%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

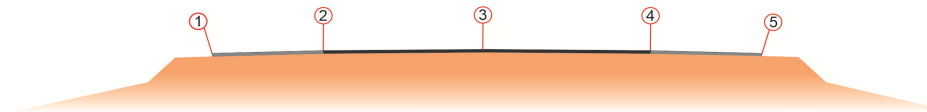
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2340+0.000	-7,70	-4,2%	1095,488	-9,70	-4,2%	1095,572	1095,165	1093,717	790.048,784	8.176.559,883	1095,312	4,2%	3,50	1095,396	4,2%	5,50
2341+0.000	-7,70	-4,2%	1095,592	-9,70	-4,2%	1095,676	1095,269	1093,757	790.063,245	8.176.546,069	1095,416	4,2%	3,50	1095,500	4,2%	5,50
2342+0.000	-7,70	-4,2%	1095,695	-9,70	-4,2%	1095,779	1095,372	1093,827	790.078,119	8.176.532,699	1095,519	4,2%	3,50	1095,603	4,2%	5,50
2343+0.000	-7,70	-4,2%	1095,799	-9,70	-4,2%	1095,883	1095,476	1093,992	790.093,391	8.176.519,786	1095,623	4,2%	3,50	1095,707	4,2%	5,50
2344+0.000	-7,70	-4,2%	1095,902	-9,70	-4,2%	1095,986	1095,579	1094,042	790.109,047	8.176.507,342	1095,726	4,2%	3,50	1095,810	4,2%	5,50
2345+0.000	-7,70	-4,2%	1096,005	-9,70	-4,2%	1096,089	1095,682	1094,138	790.125,073	8.176.495,378	1095,829	4,2%	3,50	1095,913	4,2%	5,50
2346+0.000	-7,70	-4,2%	1096,109	-9,70	-4,2%	1096,193	1095,786	1094,167	790.141,454	8.176.483,905	1095,933	4,2%	3,50	1096,017	4,2%	5,50
2347+0.000	-7,70	-4,2%	1096,212	-9,70	-4,2%	1096,296	1095,889	1094,308	790.158,175	8.176.472,933	1096,036	4,2%	3,50	1096,120	4,2%	5,50
2348+0.000	-7,70	-4,2%	1096,311	-9,70	-4,2%	1096,395	1095,988	1094,414	790.175,220	8.176.462,474	1096,135	4,2%	3,50	1096,219	4,2%	5,50
2349+0.000	-7,70	-4,2%	1096,389	-9,70	-4,2%	1096,473	1096,066	1094,416	790.192,575	8.176.452,535	1096,213	4,2%	3,50	1096,297	4,2%	5,50
2350+0.000	-7,70	-4,2%	1096,448	-9,70	-4,2%	1096,532	1096,125	1094,471	790.210,224	8.176.443,127	1096,272	4,2%	3,50	1096,356	4,2%	5,50
2351+0.000	-7,70	-4,2%	1096,486	-9,70	-4,2%	1096,570	1096,163	1094,477	790.228,149	8.176.434,258	1096,310	4,2%	3,50	1096,394	4,2%	5,50
2352+0.000	-7,70	-4,2%	1096,504	-9,70	-4,2%	1096,588	1096,181	1094,558	790.246,334	8.176.425,936	1096,328	4,2%	3,50	1096,412	4,2%	5,50
2353+0.000	-7,70	-4,2%	1096,502	-9,70	-4,2%	1096,586	1096,179	1094,578	790.264,763	8.176.418,168	1096,326	4,2%	3,50	1096,410	4,2%	5,50
2354+0.000	-7,70	-4,2%	1096,480	-9,70	-4,2%	1096,564	1096,157	1094,477	790.283,420	8.176.410,963	1096,304	4,2%	3,50	1096,388	4,2%	5,50
2355+0.000	-7,70	-4,1%	1096,427	-9,70	-4,1%	1096,508	1096,114	1094,385	790.302,286	8.176.404,327	1096,256	4,1%	3,50	1096,337	4,1%	5,50
2356+0.000	-7,70	-2,0%	1096,205	-9,70	-2,0%	1096,245	1096,051	1094,315	790.321,342	8.176.398,258	1096,095	1,3%	3,50	1096,120	1,3%	5,50
2357+0.000	-7,70	-2,0%	1096,123	-9,70	-2,0%	1096,163	1095,969	1094,311	790.340,465	8.176.392,399	1095,915	-1,5%	3,50	1095,884	-1,5%	5,50
2358+0.000	-7,70	-2,0%	1096,025	-9,70	-2,0%	1096,065	1095,871	1094,295	790.359,587	8.176.386,540	1095,801	-2,0%	3,50	1095,761	-2,0%	5,50
2359+0.000	-7,70	-2,0%	1095,926	-9,70	-2,0%	1095,966	1095,772	1094,232	790.378,709	8.176.380,681	1095,702	-2,0%	3,50	1095,662	-2,0%	5,50
2360+0.000	-7,70	-2,0%	1095,828	-9,70	-2,0%	1095,868	1095,674	1094,165	790.397,832	8.176.374,821	1095,604	-2,0%	3,50	1095,564	-2,0%	5,50
2361+0.000	-7,70	-2,0%	1095,729	-9,70	-2,0%	1095,769	1095,575	1094,165	790.416,954	8.176.368,962	1095,505	-2,0%	3,50	1095,465	-2,0%	5,50
2362+0.000	-7,70	-2,0%	1095,631	-9,70	-2,0%	1095,671	1095,477	1094,174	790.436,077	8.176.363,103	1095,407	-2,0%	3,50	1095,367	-2,0%	5,50
2363+0.000	-7,70	-2,0%	1095,532	-9,70	-2,0%	1095,572	1095,378	1094,096	790.455,199	8.176.357,244	1095,308	-2,0%	3,50	1095,268	-2,0%	5,50
2364+0.000	-7,70	-2,0%	1095,434	-9,70	-2,0%	1095,474	1095,280	1093,937	790.474,322	8.176.351,385	1095,210	-2,0%	3,50	1095,170	-2,0%	5,50
2365+0.000	-7,70	-2,0%	1095,335	-9,70	-2,0%	1095,375	1095,181	1093,874	790.493,444	8.176.345,525	1095,111	-2,0%	3,50	1095,071	-2,0%	5,50
2366+0.000	-7,70	-2,0%	1095,237	-9,70	-2,0%	1095,277	1095,083	1093,777	790.512,567	8.176.339,666	1095,013	-2,0%	3,50	1094,973	-2,0%	5,50
2367+0.000	-7,70	-2,0%	1095,138	-9,70	-2,0%	1095,178	1094,984	1093,708	790.531,689	8.176.333,807	1094,914	-2,0%	3,50	1094,874	-2,0%	5,50
2368+0.000	-7,70	-2,0%	1095,040	-9,70	-2,0%	1095,080	1094,886	1093,604	790.550,812	8.176.327,948	1094,816	-2,0%	3,50	1094,776	-2,0%	5,50
2369+0.000	-7,70	-2,0%	1094,941	-9,70	-2,0%	1094,981	1094,787	1093,504	790.569,934	8.176.322,089	1094,717	-2,0%	3,50	1094,677	-2,0%	5,50
2370+0.000	-7,70	-2,0%	1094,843	-9,70	-2,0%	1094,883	1094,689	1093,419	790.589,057	8.176.316,229	1094,619	-2,0%	3,50	1094,579	-2,0%	5,50
2371+0.000	-7,70	-2,0%	1094,744	-9,70	-2,0%	1094,784	1094,590	1093,403	790.608,179	8.176.310,370	1094,520	-2,0%	3,50	1094,480	-2,0%	5,50
2372+0.000	-7,70	-2,0%	1094,646	-9,70	-2,0%	1094,686	1094,492	1093,440	790.627,302	8.176.304,511	1094,422	-2,0%	3,50	1094,382	-2,0%	5,50
2373+0.000	-7,70	-2,0%	1094,548	-9,70	-2,0%	1094,588	1094,394	1093,287	790.646,424	8.176.298,652	1094,324	-2,0%	3,50	1094,284	-2,0%	5,50
2374+0.000	-7,70	-2,0%	1094,449	-9,70	-2,0%	1094,489	1094,295	1093,173	790.665,547	8.176.292,793	1094,225	-2,0%	3,50	1094,185	-2,0%	5,50
2375+0.000	-7,70	-2,0%	1094,351	-9,70	-2,0%	1094,391	1094,197	1093,040	790.684,669	8.176.286,933	1094,127	-2,0%	3,50	1094,087	-2,0%	5,50
2376+0.000	-7,70	-2,0%	1094,252	-9,70	-2,0%	1094,292	1094,098	1092,889	790.703,792	8.176.281,074	1094,028	-2,0%	3,50	1093,988	-2,0%	5,50
2377+0.000	-7,70	-2,0%	1094,154	-9,70	-2,0%	1094,194	1094,000	1092,829	790.722,914	8.176.275,215	1093,930	-2,0%	3,50	1093,890	-2,0%	5,50
2378+0.000	-7,70	-2,0%	1094,055	-9,70	-2,0%	1094,095	1093,901	1092,774	790.742,037	8.176.269,356	1093,831	-2,0%	3,50	1093,791	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

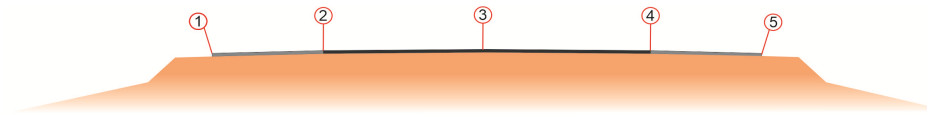
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2379+0.000	-7,70	-2,0%	1093,957	-9,70	-2,0%	1093,997	1093,803	1092,674	790.761,159	8.176.263,497	1093,733	-2,0%	3,50	1093,693	-2,0%	5,50
2380+0.000	-7,70	-2,0%	1093,858	-9,70	-2,0%	1093,898	1093,704	1092,584	790.780,282	8.176.257,637	1093,634	-2,0%	3,50	1093,594	-2,0%	5,50
2381+0.000	-7,70	-2,0%	1093,760	-9,70	-2,0%	1093,800	1093,606	1092,555	790.799,404	8.176.251,778	1093,536	-2,0%	3,50	1093,496	-2,0%	5,50
2382+0.000	-7,70	-2,0%	1093,661	-9,70	-2,0%	1093,701	1093,507	1092,504	790.818,527	8.176.245,919	1093,437	-2,0%	3,50	1093,397	-2,0%	5,50
2383+0.000	-7,70	-2,0%	1093,563	-9,70	-2,0%	1093,603	1093,409	1092,461	790.837,649	8.176.240,060	1093,339	-2,0%	3,50	1093,299	-2,0%	5,50
2384+0.000	-7,70	-2,0%	1093,464	-9,70	-2,0%	1093,504	1093,310	1092,361	790.856,772	8.176.234,201	1093,240	-2,0%	3,50	1093,200	-2,0%	5,50
2385+0.000	-7,70	-2,0%	1093,366	-9,70	-2,0%	1093,406	1093,212	1092,335	790.875,894	8.176.228,341	1093,142	-2,0%	3,50	1093,102	-2,0%	5,50
2386+0.000	-7,70	-2,0%	1093,267	-9,70	-2,0%	1093,307	1093,113	1092,271	790.895,017	8.176.222,482	1093,043	-2,0%	3,50	1093,003	-2,0%	5,50
2387+0.000	-7,70	-2,0%	1093,175	-9,70	-2,0%	1093,215	1093,021	1092,184	790.914,139	8.176.216,623	1092,951	-2,0%	3,50	1092,911	-2,0%	5,50
2388+0.000	-7,70	-2,0%	1093,115	-9,70	-2,0%	1093,155	1092,961	1092,143	790.933,262	8.176.210,764	1092,891	-2,0%	3,50	1092,851	-2,0%	5,50
2389+0.000	-7,70	-2,0%	1093,088	-9,70	-2,0%	1093,128	1092,934	1092,091	790.952,384	8.176.204,905	1092,864	-2,0%	3,50	1092,824	-2,0%	5,50
2390+0.000	-7,70	-2,0%	1093,095	-9,70	-2,0%	1093,135	1092,941	1092,104	790.971,507	8.176.199,045	1092,871	-2,0%	3,50	1092,831	-2,0%	5,50
2391+0.000	-7,70	-2,0%	1093,135	-9,70	-2,0%	1093,175	1092,981	1092,143	790.990,629	8.176.193,186	1092,911	-2,0%	3,50	1092,871	-2,0%	5,50
2392+0.000	-7,70	-2,0%	1093,209	-9,70	-2,0%	1093,249	1093,055	1092,044	791.009,752	8.176.187,327	1092,985	-2,0%	3,50	1092,945	-2,0%	5,50
2393+0.000	-7,70	-2,0%	1093,309	-9,70	-2,0%	1093,349	1093,155	1092,071	791.028,874	8.176.181,468	1093,085	-2,0%	3,50	1093,045	-2,0%	5,50
2394+0.000	-7,70	-2,0%	1093,412	-9,70	-2,0%	1093,452	1093,258	1092,068	791.047,997	8.176.175,609	1093,188	-2,0%	3,50	1093,148	-2,0%	5,50
2395+0.000	-7,70	-2,0%	1093,515	-9,70	-2,0%	1093,555	1093,361	1092,023	791.067,119	8.176.169,750	1093,291	-2,0%	3,50	1093,251	-2,0%	5,50
2396+0.000	-7,70	-2,0%	1093,618	-9,70	-2,0%	1093,658	1093,464	1091,985	791.086,242	8.176.163,890	1093,394	-2,0%	3,50	1093,354	-2,0%	5,50
2397+0.000	-7,70	-2,0%	1093,720	-9,70	-2,0%	1093,760	1093,566	1092,042	791.105,364	8.176.158,031	1093,496	-2,0%	3,50	1093,456	-2,0%	5,50
2398+0.000	-7,70	-2,0%	1093,823	-9,70	-2,0%	1093,863	1093,669	1092,006	791.124,487	8.176.152,172	1093,599	-2,0%	3,50	1093,559	-2,0%	5,50
2399+0.000	-7,70	-2,0%	1093,926	-9,70	-2,0%	1093,966	1093,772	1091,987	791.143,609	8.176.146,313	1093,702	-2,0%	3,50	1093,662	-2,0%	5,50
2400+0.000	-7,70	-2,0%	1094,029	-9,70	-2,0%	1094,069	1093,875	1091,981	791.162,732	8.176.140,454	1093,805	-2,0%	3,50	1093,765	-2,0%	5,50
2401+0.000	-7,70	-2,0%	1094,132	-9,70	-2,0%	1094,172	1093,978	1092,009	791.181,854	8.176.134,594	1093,908	-2,0%	3,50	1093,868	-2,0%	5,50
2402+0.000	-7,70	-2,0%	1094,234	-9,70	-2,0%	1094,274	1094,080	1091,976	791.200,977	8.176.128,735	1094,010	-2,0%	3,50	1093,970	-2,0%	5,50
2403+0.000	-7,70	-2,0%	1094,337	-9,70	-2,0%	1094,377	1094,183	1091,975	791.220,099	8.176.122,876	1094,113	-2,0%	3,50	1094,073	-2,0%	5,50
2404+0.000	-7,70	-2,0%	1094,435	-9,70	-2,0%	1094,475	1094,281	1092,038	791.239,222	8.176.117,017	1094,211	-2,0%	3,50	1094,171	-2,0%	5,50
2405+0.000	-7,70	-2,0%	1094,514	-9,70	-2,0%	1094,554	1094,360	1092,004	791.258,344	8.176.111,158	1094,290	-2,0%	3,50	1094,250	-2,0%	5,50
2406+0.000	-7,70	-2,0%	1094,573	-9,70	-2,0%	1094,613	1094,419	1092,032	791.277,467	8.176.105,298	1094,349	-2,0%	3,50	1094,309	-2,0%	5,50
2407+0.000	-7,70	-2,0%	1094,613	-9,70	-2,0%	1094,653	1094,459	1092,068	791.296,589	8.176.099,439	1094,389	-2,0%	3,50	1094,349	-2,0%	5,50
2408+0.000	-7,70	-2,0%	1094,633	-9,70	-2,0%	1094,673	1094,479	1092,016	791.315,712	8.176.093,580	1094,409	-2,0%	3,50	1094,369	-2,0%	5,50
2409+0.000	-7,70	-2,0%	1094,634	-9,70	-2,0%	1094,674	1094,480	1092,068	791.334,834	8.176.087,721	1094,410	-2,0%	3,50	1094,370	-2,0%	5,50
2410+0.000	-7,70	-2,0%	1094,615	-9,70	-2,0%	1094,655	1094,461	1092,082	791.353,957	8.176.081,862	1094,391	-2,0%	3,50	1094,351	-2,0%	5,50
2411+0.000	-7,70	-2,0%	1094,577	-9,70	-2,0%	1094,617	1094,423	1092,116	791.373,079	8.176.076,002	1094,353	-2,0%	3,50	1094,313	-2,0%	5,50
2412+0.000	-7,70	-2,0%	1094,519	-9,70	-2,0%	1094,559	1094,365	1092,116	791.392,202	8.176.070,143	1094,295	-2,0%	3,50	1094,255	-2,0%	5,50
2413+0.000	-7,70	-2,0%	1094,441	-9,70	-2,0%	1094,481	1094,287	1092,057	791.411,324	8.176.064,284	1094,217	-2,0%	3,50	1094,177	-2,0%	5,50
2414+0.000	-7,70	-2,0%	1094,345	-9,70	-2,0%	1094,385	1094,191	1092,063	791.430,447	8.176.058,425	1094,121	-2,0%	3,50	1094,081	-2,0%	5,50
2415+0.000	-7,70	-2,0%	1094,233	-9,70	-2,0%	1094,273	1094,079	1092,002	791.449,569	8.176.052,566	1094,009	-2,0%	3,50	1093,969	-2,0%	5,50
2416+0.000	-7,70	-2,0%	1094,122	-9,70	-2,0%	1094,162	1093,968	1092,068	791.468,692	8.176.046,706	1093,898	-2,0%	3,50	1093,858	-2,0%	5,50
2417+0.000	-7,70	-2,0%	1094,010	-9,70	-2,0%	1094,050	1093,856	1092,010	791.487,814	8.176.040,847	1093,786	-2,0%	3,50	1093,746	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Estrada Chapada das Covas**

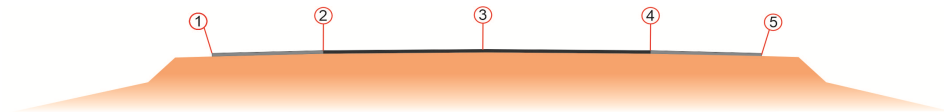
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2418+0.000	-7,70	-2,0%	1093,898	-9,70	-2,0%	1093,938	1093,744	1091,919	791.506,937	8.176.034,988	1093,674	-2,0%	3,50	1093,634	-2,0%	5,50
2419+0.000	-7,70	-2,0%	1093,786	-9,70	-2,0%	1093,826	1093,632	1091,846	791.526,059	8.176.029,129	1093,562	-2,0%	3,50	1093,522	-2,0%	5,50
2420+0.000	-7,70	-2,0%	1093,674	-9,70	-2,0%	1093,714	1093,520	1091,799	791.545,182	8.176.023,270	1093,450	-2,0%	3,50	1093,410	-2,0%	5,50
2421+0.000	-7,70	-2,0%	1093,562	-9,70	-2,0%	1093,602	1093,408	1091,816	791.564,304	8.176.017,410	1093,338	-2,0%	3,50	1093,298	-2,0%	5,50
2422+0.000	-7,70	-2,0%	1093,450	-9,70	-2,0%	1093,490	1093,296	1091,771	791.583,427	8.176.011,551	1093,226	-2,0%	3,50	1093,186	-2,0%	5,50
2423+0.000	-7,70	-2,0%	1093,338	-9,70	-2,0%	1093,378	1093,184	1091,783	791.602,549	8.176.005,692	1093,114	-2,0%	3,50	1093,074	-2,0%	5,50
2424+0.000	-7,70	-2,0%	1093,226	-9,70	-2,0%	1093,266	1093,072	1091,632	791.621,672	8.175.999,833	1093,002	-2,0%	3,50	1092,962	-2,0%	5,50
2425+0.000	-7,70	-2,0%	1093,114	-9,70	-2,0%	1093,154	1092,960	1091,594	791.640,794	8.175.993,974	1092,890	-2,0%	3,50	1092,850	-2,0%	5,50
2426+0.000	-7,70	-2,0%	1093,003	-9,70	-2,0%	1093,043	1092,849	1091,559	791.659,917	8.175.988,114	1092,779	-2,0%	3,50	1092,739	-2,0%	5,50
2427+0.000	-7,70	-2,0%	1092,891	-9,70	-2,0%	1092,931	1092,737	1091,543	791.679,039	8.175.982,255	1092,667	-2,0%	3,50	1092,627	-2,0%	5,50
2428+0.000	-7,70	-2,0%	1092,779	-9,70	-2,0%	1092,819	1092,625	1091,497	791.698,162	8.175.976,396	1092,555	-2,0%	3,50	1092,515	-2,0%	5,50
2429+0.000	-7,70	-2,0%	1092,667	-9,70	-2,0%	1092,707	1092,513	1091,310	791.717,284	8.175.970,537	1092,443	-2,0%	3,50	1092,403	-2,0%	5,50
2430+0.000	-7,70	-2,0%	1092,555	-9,70	-2,0%	1092,595	1092,401	1091,271	791.736,407	8.175.964,678	1092,331	-2,0%	3,50	1092,291	-2,0%	5,50
2431+0.000	-7,70	-2,0%	1092,443	-9,70	-2,0%	1092,483	1092,289	1091,080	791.755,529	8.175.958,818	1092,219	-2,0%	3,50	1092,179	-2,0%	5,50
2432+0.000	-7,70	-2,0%	1092,331	-9,70	-2,0%	1092,371	1092,177	1091,038	791.774,652	8.175.952,959	1092,195	0,5%	3,50	1092,206	0,5%	5,50
2433+0.000	-7,70	-3,3%	1092,321	-9,70	-3,3%	1092,387	1092,065	1090,983	791.793,804	8.175.947,199	1092,181	3,3%	3,50	1092,248	3,3%	5,50
2434+0.000	-7,70	-4,2%	1092,276	-9,70	-4,2%	1092,360	1091,953	1090,945	791.813,108	8.175.941,972	1092,100	4,2%	3,50	1092,184	4,2%	5,50
2435+0.000	-7,70	-4,2%	1092,164	-9,70	-4,2%	1092,248	1091,841	1090,779	791.832,562	8.175.937,332	1091,988	4,2%	3,50	1092,072	4,2%	5,50
2436+0.000	-7,70	-4,2%	1092,053	-9,70	-4,2%	1092,137	1091,730	1090,581	791.852,147	8.175.933,284	1091,877	4,2%	3,50	1091,961	4,2%	5,50
2437+0.000	-7,70	-4,2%	1091,941	-9,70	-4,2%	1092,025	1091,618	1090,484	791.871,846	8.175.929,831	1091,765	4,2%	3,50	1091,849	4,2%	5,50
2438+0.000	-7,70	-4,2%	1091,829	-9,70	-4,2%	1091,913	1091,506	1090,401	791.891,640	8.175.926,976	1091,653	4,2%	3,50	1091,737	4,2%	5,50
2439+0.000	-7,70	-4,2%	1091,717	-9,70	-4,2%	1091,801	1091,394	1090,290	791.911,512	8.175.924,723	1091,541	4,2%	3,50	1091,625	4,2%	5,50
2440+0.000	-7,70	-4,2%	1091,605	-9,70	-4,2%	1091,689	1091,282	1090,087	791.931,443	8.175.923,072	1091,429	4,2%	3,50	1091,513	4,2%	5,50
2441+0.000	-7,70	-4,2%	1091,479	-9,70	-4,2%	1091,563	1091,156	1089,868	791.951,415	8.175.922,026	1091,303	4,2%	3,50	1091,387	4,2%	5,50
2442+0.000	-7,70	-4,2%	1091,331	-9,70	-4,2%	1091,415	1091,008	1089,601	791.971,409	8.175.921,586	1091,155	4,2%	3,50	1091,239	4,2%	5,50
2443+0.000	-7,70	-4,2%	1091,160	-9,70	-4,2%	1091,244	1090,837	1089,416	791.991,408	8.175.921,752	1090,984	4,2%	3,50	1091,068	4,2%	5,50
2444+0.000	-7,70	-4,2%	1090,967	-9,70	-4,2%	1091,051	1090,644	1089,130	792.011,392	8.175.922,524	1090,791	4,2%	3,50	1090,875	4,2%	5,50
2445+0.000	-7,70	-4,2%	1090,750	-9,70	-4,2%	1090,834	1090,427	1088,820	792.031,344	8.175.923,900	1090,574	4,2%	3,50	1090,658	4,2%	5,50
2446+0.000	-7,70	-4,2%	1090,511	-9,70	-4,2%	1090,595	1090,188	1088,880	792.051,245	8.175.925,881	1090,335	4,2%	3,50	1090,419	4,2%	5,50
2447+0.000	-7,70	-4,2%	1090,250	-9,70	-4,2%	1090,334	1089,927	1089,740	792.071,077	8.175.928,464	1090,074	4,2%	3,50	1090,158	4,2%	5,50
2448+0.000	-7,70	-4,2%	1089,965	-9,70	-4,2%	1090,049	1089,642	1088,013	792.090,821	8.175.931,646	1089,789	4,2%	3,50	1089,873	4,2%	5,50
2449+0.000	-7,70	-4,2%	1089,658	-9,70	-4,2%	1089,742	1089,335	1087,669	792.110,460	8.175.935,425	1089,482	4,2%	3,50	1089,566	4,2%	5,50
2450+0.000	-7,70	-4,2%	1089,329	-9,70	-4,2%	1089,413	1089,006	1087,304	792.129,975	8.175.939,798	1089,153	4,2%	3,50	1089,237	4,2%	5,50
2451+0.000	-7,70	-4,2%	1088,976	-9,70	-4,2%	1089,060	1088,653	1086,961	792.149,349	8.175.944,759	1088,800	4,2%	3,50	1088,884	4,2%	5,50
2452+0.000	-7,70	-4,2%	1088,601	-9,70	-4,2%	1088,685	1088,278	1086,697	792.168,564	8.175.950,306	1088,425	4,2%	3,50	1088,509	4,2%	5,50
2453+0.000	-7,70	-4,2%	1088,204	-9,70	-4,2%	1088,288	1087,881	1086,340	792.187,602	8.175.956,432	1088,028	4,2%	3,50	1088,112	4,2%	5,50
2454+0.000	-7,70	-4,2%	1087,783	-9,70	-4,2%	1087,867	1087,460	1086,059	792.206,446	8.175.963,132	1087,607	4,2%	3,50	1087,691	4,2%	5,50
2455+0.000	-7,70	-4,2%	1087,340	-9,70	-4,2%	1087,424	1087,017	1085,794	792.225,077	8.175.970,400	1087,164	4,2%	3,50	1087,248	4,2%	5,50
2456+0.000	-7,70	-4,2%	1086,888	-9,70	-4,2%	1086,972	1086,565	1085,150	792.243,481	8.175.978,229	1086,712	4,2%	3,50	1086,796	4,2%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

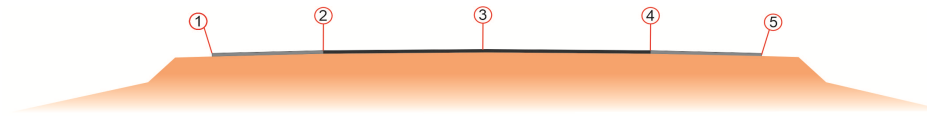
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2457+0.000	-7,70	-4,2%	1086,436	-9,70	-4,2%	1086,520	1086,113	1084,680	792.261,638	8.175.986,612	1086,260	4,2%	3,50	1086,344	4,2%	5,50
2458+0.000	-7,70	-3,4%	1085,922	-9,70	-3,4%	1085,990	1085,661	1084,222	792.279,533	8.175.995,541	1085,780	3,4%	3,50	1085,847	3,4%	5,50
2459+0.000	-7,70	-2,0%	1085,363	-9,70	-2,0%	1085,403	1085,209	1083,583	792.297,172	8.176.004,968	1085,230	0,6%	3,50	1085,241	0,6%	5,50
2460+0.000	-7,70	-2,0%	1084,910	-9,70	-2,0%	1084,950	1084,756	1083,195	792.314,757	8.176.014,495	1084,686	-2,0%	3,50	1084,646	-2,0%	5,50
2461+0.000	-7,70	-2,0%	1084,458	-9,70	-2,0%	1084,498	1084,304	1082,794	792.332,342	8.176.024,022	1084,234	-2,0%	3,50	1084,194	-2,0%	5,50
2462+0.000	-7,70	-2,0%	1084,006	-9,70	-2,0%	1084,046	1083,852	1082,332	792.349,927	8.176.033,548	1083,782	-2,0%	3,50	1083,742	-2,0%	5,50
2463+0.000	-7,70	-2,0%	1083,554	-9,70	-2,0%	1083,594	1083,400	1081,883	792.367,513	8.176.043,075	1083,330	-2,0%	3,50	1083,290	-2,0%	5,50
2464+0.000	-7,70	-2,0%	1083,102	-9,70	-2,0%	1083,142	1082,948	1081,736	792.385,098	8.176.052,602	1082,878	-2,0%	3,50	1082,838	-2,0%	5,50
2465+0.000	-7,70	-2,0%	1082,650	-9,70	-2,0%	1082,690	1082,496	1081,721	792.402,683	8.176.062,128	1082,426	-2,0%	3,50	1082,386	-2,0%	5,50
2466+0.000	-7,70	-2,0%	1082,198	-9,70	-2,0%	1082,238	1082,044	1080,468	792.420,269	8.176.071,655	1081,974	-2,0%	3,50	1081,934	-2,0%	5,50
2467+0.000	-7,70	-2,0%	1081,745	-9,70	-2,0%	1081,785	1081,591	1079,996	792.437,854	8.176.081,182	1081,521	-2,0%	3,50	1081,481	-2,0%	5,50
2468+0.000	-7,70	-2,0%	1081,293	-9,70	-2,0%	1081,333	1081,139	1079,499	792.455,439	8.176.090,708	1081,069	-2,0%	3,50	1081,029	-2,0%	5,50
2469+0.000	-7,70	-2,0%	1080,841	-9,70	-2,0%	1080,881	1080,687	1078,989	792.473,024	8.176.100,235	1080,617	-2,0%	3,50	1080,577	-2,0%	5,50
2470+0.000	-7,70	-2,0%	1080,389	-9,70	-2,0%	1080,429	1080,235	1078,646	792.490,610	8.176.109,762	1080,165	-2,0%	3,50	1080,125	-2,0%	5,50
2471+0.000	-7,70	-2,0%	1079,937	-9,70	-2,0%	1079,977	1079,783	1078,122	792.508,195	8.176.119,288	1079,713	-2,0%	3,50	1079,673	-2,0%	5,50
2472+0.000	-7,70	-2,0%	1079,485	-9,70	-2,0%	1079,525	1079,331	1077,609	792.525,780	8.176.128,815	1079,261	-2,0%	3,50	1079,221	-2,0%	5,50
2473+0.000	-7,70	-2,0%	1079,033	-9,70	-2,0%	1079,073	1078,879	1077,377	792.543,366	8.176.138,342	1078,809	-2,0%	3,50	1078,769	-2,0%	5,50
2474+0.000	-7,70	-2,0%	1078,581	-9,70	-2,0%	1078,621	1078,427	1077,120	792.560,951	8.176.147,868	1078,357	-2,0%	3,50	1078,317	-2,0%	5,50
2475+0.000	-7,70	-2,0%	1078,128	-9,70	-2,0%	1078,168	1077,974	1076,701	792.578,536	8.176.157,395	1077,904	-2,0%	3,50	1077,864	-2,0%	5,50
2476+0.000	-7,70	-2,0%	1077,676	-9,70	-2,0%	1077,716	1077,522	1075,714	792.596,121	8.176.166,922	1077,452	-2,0%	3,50	1077,412	-2,0%	5,50
2477+0.000	-7,70	-2,0%	1077,224	-9,70	-2,0%	1077,264	1077,070	1075,251	792.613,707	8.176.176,448	1077,000	-2,0%	3,50	1076,960	-2,0%	5,50
2478+0.000	-7,70	-2,0%	1076,772	-9,70	-2,0%	1076,812	1076,618	1074,770	792.631,292	8.176.185,975	1076,548	-2,0%	3,50	1076,508	-2,0%	5,50
2479+0.000	-7,70	-2,0%	1076,320	-9,70	-2,0%	1076,360	1076,166	1074,337	792.648,877	8.176.195,502	1076,096	-2,0%	3,50	1076,056	-2,0%	5,50
2480+0.000	-7,70	-2,0%	1075,868	-9,70	-2,0%	1075,908	1075,714	1073,926	792.666,463	8.176.205,028	1075,644	-2,0%	3,50	1075,604	-2,0%	5,50
2481+0.000	-7,70	-2,0%	1075,416	-9,70	-2,0%	1075,456	1075,262	1073,477	792.684,048	8.176.214,555	1075,192	-2,0%	3,50	1075,152	-2,0%	5,50
2482+0.000	-7,70	-2,0%	1074,963	-9,70	-2,0%	1075,003	1074,809	1072,992	792.701,633	8.176.224,082	1074,739	-2,0%	3,50	1074,699	-2,0%	5,50
2483+0.000	-7,70	-2,0%	1074,511	-9,70	-2,0%	1074,551	1074,357	1072,674	792.719,219	8.176.233,608	1074,287	-2,0%	3,50	1074,247	-2,0%	5,50
2484+0.000	-7,70	-2,0%	1074,059	-9,70	-2,0%	1074,099	1073,905	1072,191	792.736,804	8.176.243,135	1073,835	-2,0%	3,50	1073,795	-2,0%	5,50
2485+0.000	-7,70	-2,0%	1073,607	-9,70	-2,0%	1073,647	1073,453	1071,570	792.754,389	8.176.252,662	1073,383	-2,0%	3,50	1073,343	-2,0%	5,50
2486+0.000	-7,70	-2,0%	1073,155	-9,70	-2,0%	1073,195	1073,001	1071,168	792.771,974	8.176.262,189	1072,931	-2,0%	3,50	1072,891	-2,0%	5,50
2487+0.000	-7,70	-2,0%	1072,703	-9,70	-2,0%	1072,743	1072,549	1070,697	792.789,560	8.176.271,715	1072,479	-2,0%	3,50	1072,439	-2,0%	5,50
2488+0.000	-7,70	-1,3%	1072,199	-9,70	-1,3%	1072,226	1072,097	1070,303	792.807,145	8.176.281,242	1072,027	-2,0%	3,50	1071,987	-2,0%	5,50
2489+0.000	-7,70	1,5%	1071,530	-9,70	1,5%	1071,500	1071,644	1069,871	792.824,730	8.176.290,769	1071,574	-2,0%	3,50	1071,534	-2,0%	5,50
2490+0.000	-7,70	3,8%	1070,899	-9,70	3,8%	1070,823	1071,192	1069,374	792.842,430	8.176.300,080	1071,059	-3,8%	3,50	1070,983	-3,8%	5,50
2491+0.000	-7,70	3,8%	1070,447	-9,70	3,8%	1070,371	1070,740	1069,053	792.860,357	8.176.308,946	1070,607	-3,8%	3,50	1070,531	-3,8%	5,50
2492+0.000	-7,70	3,8%	1069,995	-9,70	3,8%	1069,919	1070,288	1068,722	792.878,500	8.176.317,361	1070,155	-3,8%	3,50	1070,079	-3,8%	5,50
2493+0.000	-7,70	3,8%	1069,543	-9,70	3,8%	1069,467	1069,836	1068,208	792.896,847	8.176.325,320	1069,703	-3,8%	3,50	1069,627	-3,8%	5,50
2494+0.000	-7,70	3,8%	1069,091	-9,70	3,8%	1069,015	1069,384	1067,680	792.915,388	8.176.332,818	1069,251	-3,8%	3,50	1069,175	-3,8%	5,50
2495+0.000	-7,70	3,8%	1068,642	-9,70	3,8%	1068,566	1068,935	1067,273	792.934,110	8.176.339,851	1068,802	-3,8%	3,50	1068,726	-3,8%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

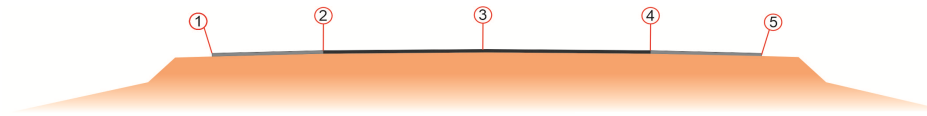
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2496+0.000	-7,70	3,4%	1068,246	-9,70	3,4%	1068,178	1068,506	1066,987	792.953,003	8.176.346,413	1068,388	-3,4%	3,50	1068,320	-3,4%	5,50
2497+0.000	-7,70	0,6%	1068,056	-9,70	0,6%	1068,045	1068,099	1066,602	792.972,044	8.176.352,528	1068,029	-2,0%	3,50	1067,989	-2,0%	5,50
2498+0.000	-7,70	-2,0%	1067,868	-9,70	-2,0%	1067,908	1067,714	1066,284	792.991,119	8.176.358,539	1067,644	-2,0%	3,50	1067,604	-2,0%	5,50
2499+0.000	-7,70	-2,0%	1067,505	-9,70	-2,0%	1067,545	1067,351	1065,858	793.010,195	8.176.364,551	1067,281	-2,0%	3,50	1067,241	-2,0%	5,50
2500+0.000	-7,70	-2,0%	1067,160	-9,70	-2,0%	1067,200	1067,006	1065,519	793.029,270	8.176.370,563	1066,936	-2,0%	3,50	1066,896	-2,0%	5,50
2501+0.000	-7,70	-2,0%	1066,817	-9,70	-2,0%	1066,857	1066,663	1065,140	793.048,345	8.176.376,574	1066,593	-2,0%	3,50	1066,553	-2,0%	5,50
2502+0.000	-7,70	-2,0%	1066,474	-9,70	-2,0%	1066,514	1066,320	1064,783	793.067,420	8.176.382,586	1066,250	-2,0%	3,50	1066,210	-2,0%	5,50
2503+0.000	-7,70	-2,0%	1066,131	-9,70	-2,0%	1066,171	1065,977	1064,393	793.086,495	8.176.388,598	1065,907	-2,0%	3,50	1065,867	-2,0%	5,50
2504+0.000	-7,70	-2,0%	1065,788	-9,70	-2,0%	1065,828	1065,634	1064,069	793.105,570	8.176.394,609	1065,564	-2,0%	3,50	1065,524	-2,0%	5,50
2505+0.000	-7,70	-2,0%	1065,446	-9,70	-2,0%	1065,486	1065,292	1063,628	793.124,645	8.176.400,621	1065,222	-2,0%	3,50	1065,182	-2,0%	5,50
2506+0.000	-7,70	-2,0%	1065,103	-9,70	-2,0%	1065,143	1064,949	1063,290	793.143,720	8.176.406,633	1064,879	-2,0%	3,50	1064,839	-2,0%	5,50
2507+0.000	-7,70	-2,0%	1064,760	-9,70	-2,0%	1064,800	1064,606	1062,844	793.162,796	8.176.412,644	1064,536	-2,0%	3,50	1064,496	-2,0%	5,50
2508+0.000	-7,70	-2,0%	1064,417	-9,70	-2,0%	1064,457	1064,263	1062,526	793.181,871	8.176.418,656	1064,193	-2,0%	3,50	1064,153	-2,0%	5,50
2509+0.000	-7,70	-2,0%	1064,074	-9,70	-2,0%	1064,114	1063,920	1062,306	793.200,946	8.176.424,667	1063,850	-2,0%	3,50	1063,810	-2,0%	5,50
2510+0.000	-7,70	-2,0%	1063,731	-9,70	-2,0%	1063,771	1063,577	1061,984	793.220,021	8.176.430,679	1063,507	-2,0%	3,50	1063,467	-2,0%	5,50
2511+0.000	-7,70	-2,0%	1063,389	-9,70	-2,0%	1063,429	1063,235	1061,540	793.239,096	8.176.436,691	1063,250	0,4%	3,50	1063,259	0,4%	5,50
2512+0.000	-7,70	-3,2%	1063,138	-9,70	-3,2%	1063,202	1062,892	1061,413	793.258,142	8.176.442,794	1063,004	3,2%	3,50	1063,068	3,2%	5,50
2513+0.000	-7,70	-4,0%	1062,857	-9,70	-4,0%	1062,937	1062,549	1061,167	793.277,022	8.176.449,391	1062,689	4,0%	3,50	1062,769	4,0%	5,50
2514+0.000	-7,70	-4,0%	1062,514	-9,70	-4,0%	1062,594	1062,206	1061,279	793.295,706	8.176.456,524	1062,346	4,0%	3,50	1062,426	4,0%	5,50
2515+0.000	-7,70	-4,0%	1062,171	-9,70	-4,0%	1062,251	1061,863	1060,045	793.314,178	8.176.464,189	1062,003	4,0%	3,50	1062,083	4,0%	5,50
2516+0.000	-7,70	-4,0%	1061,828	-9,70	-4,0%	1061,908	1061,520	1061,093	793.332,424	8.176.472,378	1061,660	4,0%	3,50	1061,740	4,0%	5,50
2517+0.000	-7,70	-4,0%	1061,486	-9,70	-4,0%	1061,566	1061,178	1060,059	793.350,428	8.176.481,085	1061,318	4,0%	3,50	1061,398	4,0%	5,50
2518+0.000	-7,70	-4,0%	1061,143	-9,70	-4,0%	1061,223	1060,835	1059,660	793.368,177	8.176.490,303	1060,975	4,0%	3,50	1061,055	4,0%	5,50
2519+0.000	-7,70	-4,0%	1060,800	-9,70	-4,0%	1060,880	1060,492	1059,303	793.385,654	8.176.500,024	1060,632	4,0%	3,50	1060,712	4,0%	5,50
2520+0.000	-7,70	-4,0%	1060,457	-9,70	-4,0%	1060,537	1060,149	1058,688	793.402,847	8.176.510,240	1060,289	4,0%	3,50	1060,369	4,0%	5,50
2521+0.000	-7,70	-4,0%	1060,114	-9,70	-4,0%	1060,194	1059,806	1058,365	793.419,742	8.176.520,944	1059,946	4,0%	3,50	1060,026	4,0%	5,50
2522+0.000	-7,70	-4,0%	1059,771	-9,70	-4,0%	1059,851	1059,463	1057,862	793.436,323	8.176.532,125	1059,603	4,0%	3,50	1059,683	4,0%	5,50
2523+0.000	-7,70	-4,0%	1059,429	-9,70	-4,0%	1059,509	1059,121	1057,653	793.452,578	8.176.543,776	1059,261	4,0%	3,50	1059,341	4,0%	5,50
2524+0.000	-7,70	-2,0%	1058,932	-9,70	-2,0%	1058,972	1058,778	1057,348	793.468,494	8.176.555,886	1058,833	1,6%	3,50	1058,865	1,6%	5,50
2525+0.000	-7,70	-2,0%	1058,589	-9,70	-2,0%	1058,629	1058,435	1057,040	793.484,239	8.176.568,219	1058,394	-1,2%	3,50	1058,370	-1,2%	5,50
2526+0.000	-7,70	-2,0%	1058,246	-9,70	-2,0%	1058,286	1058,092	1056,659	793.499,984	8.176.580,552	1058,022	-2,0%	3,50	1057,982	-2,0%	5,50
2527+0.000	-7,70	-2,0%	1057,903	-9,70	-2,0%	1057,943	1057,749	1056,188	793.515,728	8.176.592,885	1057,679	-2,0%	3,50	1057,639	-2,0%	5,50
2528+0.000	-7,70	-2,0%	1057,560	-9,70	-2,0%	1057,600	1057,406	1055,794	793.531,473	8.176.605,218	1057,336	-2,0%	3,50	1057,296	-2,0%	5,50
2529+0.000	-7,70	-2,0%	1057,217	-9,70	-2,0%	1057,257	1057,063	1055,445	793.547,218	8.176.617,551	1056,993	-2,0%	3,50	1056,953	-2,0%	5,50
2530+0.000	-7,70	-2,0%	1056,875	-9,70	-2,0%	1056,915	1056,721	1055,099	793.562,963	8.176.629,884	1056,651	-2,0%	3,50	1056,611	-2,0%	5,50
2531+0.000	-7,70	-2,0%	1056,532	-9,70	-2,0%	1056,572	1056,378	1054,769	793.578,707	8.176.642,217	1056,308	-2,0%	3,50	1056,268	-2,0%	5,50
2532+0.000	-7,70	-2,0%	1056,189	-9,70	-2,0%	1056,229	1056,035	1054,413	793.594,452	8.176.654,550	1055,965	-2,0%	3,50	1055,925	-2,0%	5,50
2533+0.000	-7,70	-2,0%	1055,846	-9,70	-2,0%	1055,886	1055,692	1053,979	793.610,197	8.176.666,883	1055,622	-2,0%	3,50	1055,582	-2,0%	5,50
2534+0.000	-7,70	-2,0%	1055,503	-9,70	-2,0%	1055,543	1055,349	1053,750	793.625,942	8.176.679,216	1055,279	-2,0%	3,50	1055,239	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

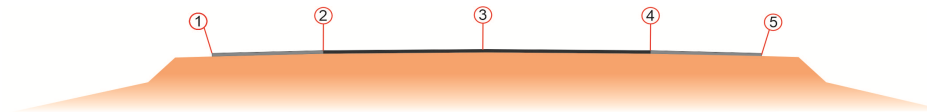
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2535+0.000	-7,70	-2,0%	1055,160	-9,70	-2,0%	1055,200	1055,006	1053,596	793.641,686	8.176.691,549	1054,936	-2,0%	3,50	1054,896	-2,0%	5,50
2536+0.000	-7,70	-2,0%	1054,818	-9,70	-2,0%	1054,858	1054,664	1053,177	793.657,431	8.176.703,882	1054,594	-2,0%	3,50	1054,554	-2,0%	5,50
2537+0.000	-7,70	-2,0%	1054,475	-9,70	-2,0%	1054,515	1054,321	1053,064	793.673,176	8.176.716,215	1054,251	-2,0%	3,50	1054,211	-2,0%	5,50
2538+0.000	-7,70	-2,0%	1054,132	-9,70	-2,0%	1054,172	1053,978	1052,507	793.688,921	8.176.728,548	1053,908	-2,0%	3,50	1053,868	-2,0%	5,50
2539+0.000	-7,70	-2,0%	1053,789	-9,70	-2,0%	1053,829	1053,635	1052,195	793.704,665	8.176.740,881	1053,565	-2,0%	3,50	1053,525	-2,0%	5,50
2540+0.000	-7,70	-2,0%	1053,446	-9,70	-2,0%	1053,486	1053,292	1051,835	793.720,410	8.176.753,214	1053,222	-2,0%	3,50	1053,182	-2,0%	5,50
2541+0.000	-7,70	-2,0%	1053,103	-9,70	-2,0%	1053,143	1052,949	1051,423	793.736,155	8.176.765,547	1052,879	-2,0%	3,50	1052,839	-2,0%	5,50
2542+0.000	-7,70	-2,0%	1052,761	-9,70	-2,0%	1052,801	1052,607	1051,152	793.751,900	8.176.777,880	1052,537	-2,0%	3,50	1052,497	-2,0%	5,50
2543+0.000	-7,70	-2,0%	1052,418	-9,70	-2,0%	1052,458	1052,264	1050,708	793.767,644	8.176.790,213	1052,194	-2,0%	3,50	1052,154	-2,0%	5,50
2544+0.000	-7,70	-2,0%	1052,075	-9,70	-2,0%	1052,115	1051,921	1050,426	793.783,389	8.176.802,546	1051,851	-2,0%	3,50	1051,811	-2,0%	5,50
2545+0.000	-7,70	-0,9%	1051,658	-9,70	-0,9%	1051,675	1051,591	1050,189	793.799,134	8.176.814,879	1051,521	-2,0%	3,50	1051,481	-2,0%	5,50
2546+0.000	-7,70	1,9%	1051,133	-9,70	1,9%	1051,094	1051,282	1049,847	793.814,882	8.176.827,208	1051,212	-2,0%	3,50	1051,172	-2,0%	5,50
2547+0.000	-7,70	3,8%	1050,702	-9,70	3,8%	1050,626	1050,995	1049,668	793.830,825	8.176.839,283	1050,862	-3,8%	3,50	1050,786	-3,8%	5,50
2548+0.000	-7,70	3,8%	1050,437	-9,70	3,8%	1050,361	1050,730	1049,343	793.847,064	8.176.850,956	1050,597	-3,8%	3,50	1050,521	-3,8%	5,50
2549+0.000	-7,70	3,8%	1050,193	-9,70	3,8%	1050,117	1050,486	1049,179	793.863,591	8.176.862,219	1050,353	-3,8%	3,50	1050,277	-3,8%	5,50
2550+0.000	-7,70	3,8%	1049,958	-9,70	3,8%	1049,882	1050,251	1048,965	793.880,393	8.176.873,066	1050,118	-3,8%	3,50	1050,042	-3,8%	5,50
2551+0.000	-7,70	3,8%	1049,724	-9,70	3,8%	1049,648	1050,017	1048,748	793.897,462	8.176.883,489	1049,884	-3,8%	3,50	1049,808	-3,8%	5,50
2552+0.000	-7,70	3,8%	1049,489	-9,70	3,8%	1049,413	1049,782	1048,589	793.914,786	8.176.893,482	1049,649	-3,8%	3,50	1049,573	-3,8%	5,50
2553+0.000	-7,70	3,8%	1049,255	-9,70	3,8%	1049,179	1049,548	1048,444	793.932,354	8.176.903,039	1049,415	-3,8%	3,50	1049,339	-3,8%	5,50
2554+0.000	-7,70	3,8%	1049,020	-9,70	3,8%	1048,944	1049,313	1048,272	793.950,155	8.176.912,155	1049,180	-3,8%	3,50	1049,104	-3,8%	5,50
2555+0.000	-7,70	3,8%	1048,785	-9,70	3,8%	1048,709	1049,078	1048,078	793.968,179	8.176.920,822	1048,945	-3,8%	3,50	1048,869	-3,8%	5,50
2556+0.000	-7,70	3,8%	1048,551	-9,70	3,8%	1048,475	1048,844	1047,758	793.986,414	8.176.929,036	1048,711	-3,8%	3,50	1048,635	-3,8%	5,50
2557+0.000	-7,70	3,8%	1048,316	-9,70	3,8%	1048,240	1048,609	1047,458	794.004,848	8.176.936,791	1048,476	-3,8%	3,50	1048,400	-3,8%	5,50
2558+0.000	-7,70	3,8%	1048,082	-9,70	3,8%	1048,006	1048,375	1047,092	794.023,471	8.176.944,083	1048,242	-3,8%	3,50	1048,166	-3,8%	5,50
2559+0.000	-7,70	3,8%	1047,847	-9,70	3,8%	1047,771	1048,140	1046,830	794.042,270	8.176.950,908	1048,007	-3,8%	3,50	1047,931	-3,8%	5,50
2560+0.000	-7,70	3,8%	1047,613	-9,70	3,8%	1047,537	1047,906	1046,403	794.061,234	8.176.957,260	1047,773	-3,8%	3,50	1047,697	-3,8%	5,50
2561+0.000	-7,70	3,8%	1047,378	-9,70	3,8%	1047,302	1047,671	1046,151	794.080,351	8.176.963,137	1047,538	-3,8%	3,50	1047,462	-3,8%	5,50
2562+0.000	-7,70	3,8%	1047,143	-9,70	3,8%	1047,067	1047,436	1046,040	794.099,608	8.176.968,533	1047,303	-3,8%	3,50	1047,227	-3,8%	5,50
2563+0.000	-7,70	1,0%	1047,122	-9,70	1,0%	1047,101	1047,202	1045,903	794.118,993	8.176.973,454	1047,132	-2,0%	3,50	1047,092	-2,0%	5,50
2564+0.000	-7,70	-1,8%	1047,104	-9,70	-1,8%	1047,140	1046,967	1045,874	794.138,420	8.176.978,209	1046,897	-2,0%	3,50	1046,857	-2,0%	5,50
2565+0.000	-7,70	-2,0%	1046,887	-9,70	-2,0%	1046,927	1046,733	1045,620	794.157,846	8.176.982,963	1046,663	-2,0%	3,50	1046,623	-2,0%	5,50
2566+0.000	-7,70	-2,0%	1046,652	-9,70	-2,0%	1046,692	1046,498	1045,310	794.177,273	8.176.987,717	1046,428	-2,0%	3,50	1046,388	-2,0%	5,50
2567+0.000	-7,70	-2,0%	1046,418	-9,70	-2,0%	1046,458	1046,264	1045,093	794.196,700	8.176.992,471	1046,194	-2,0%	3,50	1046,154	-2,0%	5,50
2568+0.000	-7,70	-2,0%	1046,183	-9,70	-2,0%	1046,223	1046,029	1044,898	794.216,126	8.176.997,226	1045,959	-2,0%	3,50	1045,919	-2,0%	5,50
2569+0.000	-7,70	-2,0%	1045,948	-9,70	-2,0%	1045,988	1045,794	1044,756	794.235,553	8.177.001,980	1045,724	-2,0%	3,50	1045,684	-2,0%	5,50
2570+0.000	-7,70	-2,0%	1045,714	-9,70	-2,0%	1045,754	1045,560	1044,579	794.254,980	8.177.006,734	1045,490	-2,0%	3,50	1045,450	-2,0%	5,50
2571+0.000	-7,70	-2,0%	1045,479	-9,70	-2,0%	1045,519	1045,325	1044,022	794.274,407	8.177.011,489	1045,255	-2,0%	3,50	1045,215	-2,0%	5,50
2572+0.000	-7,70	-2,0%	1045,245	-9,70	-2,0%	1045,285	1045,091	1043,647	794.293,833	8.177.016,243	1045,021	-2,0%	3,50	1044,981	-2,0%	5,50
2573+0.000	-7,70	-2,0%	1045,010	-9,70	-2,0%	1045,050	1044,856	1043,311	794.313,260	8.177.020,997	1044,786	-2,0%	3,50	1044,746	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

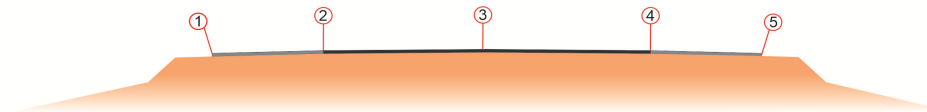
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2574+0.000	-7,70	-2,0%	1044,775	-9,70	-2,0%	1044,815	1044,621	1043,154	794.332,687	8.177.025,752	1044,551	-2,0%	3,50	1044,511	-2,0%	5,50
2575+0.000	-7,70	-2,0%	1044,541	-9,70	-2,0%	1044,581	1044,387	1042,877	794.352,113	8.177.030,506	1044,317	-2,0%	3,50	1044,277	-2,0%	5,50
2576+0.000	-7,70	-2,0%	1044,298	-9,70	-2,0%	1044,338	1044,144	1042,639	794.371,540	8.177.035,260	1044,074	-2,0%	3,50	1044,034	-2,0%	5,50
2577+0.000	-7,70	-2,0%	1044,038	-9,70	-2,0%	1044,078	1043,884	1042,417	794.390,967	8.177.040,015	1043,814	-2,0%	3,50	1043,774	-2,0%	5,50
2578+0.000	-7,70	-2,0%	1043,759	-9,70	-2,0%	1043,799	1043,605	1042,134	794.410,393	8.177.044,769	1043,535	-2,0%	3,50	1043,495	-2,0%	5,50
2579+0.000	-7,70	-2,0%	1043,461	-9,70	-2,0%	1043,501	1043,307	1041,902	794.429,820	8.177.049,523	1043,237	-2,0%	3,50	1043,197	-2,0%	5,50
2580+0.000	-7,70	-2,0%	1043,146	-9,70	-2,0%	1043,186	1042,992	1041,546	794.449,247	8.177.054,278	1042,922	-2,0%	3,50	1042,882	-2,0%	5,50
2581+0.000	-7,70	-2,0%	1042,820	-9,70	-2,0%	1042,860	1042,666	1041,205	794.468,673	8.177.059,032	1042,596	-2,0%	3,50	1042,556	-2,0%	5,50
2582+0.000	-7,70	-2,0%	1042,494	-9,70	-2,0%	1042,534	1042,340	1040,847	794.488,100	8.177.063,786	1042,270	-2,0%	3,50	1042,230	-2,0%	5,50
2583+0.000	-7,70	-2,0%	1042,168	-9,70	-2,0%	1042,208	1042,014	1040,526	794.507,527	8.177.068,541	1041,944	-2,0%	3,50	1041,904	-2,0%	5,50
2584+0.000	-7,70	-2,0%	1041,841	-9,70	-2,0%	1041,881	1041,687	1040,164	794.526,954	8.177.073,295	1041,617	-2,0%	3,50	1041,577	-2,0%	5,50
2585+0.000	-7,70	-2,0%	1041,515	-9,70	-2,0%	1041,555	1041,361	1039,824	794.546,380	8.177.078,049	1041,291	-2,0%	3,50	1041,251	-2,0%	5,50
2586+0.000	-7,70	-2,0%	1041,189	-9,70	-2,0%	1041,229	1041,035	1039,562	794.565,807	8.177.082,804	1040,965	-2,0%	3,50	1040,925	-2,0%	5,50
2587+0.000	-7,70	-2,0%	1040,863	-9,70	-2,0%	1040,903	1040,709	1039,215	794.585,234	8.177.087,558	1040,639	-2,0%	3,50	1040,599	-2,0%	5,50
2588+0.000	-7,70	-2,0%	1040,537	-9,70	-2,0%	1040,577	1040,383	1039,071	794.604,660	8.177.092,312	1040,313	-2,0%	3,50	1040,273	-2,0%	5,50
2589+0.000	-7,70	-2,0%	1040,211	-9,70	-2,0%	1040,251	1040,057	1038,731	794.624,087	8.177.097,067	1039,987	-2,0%	3,50	1039,947	-2,0%	5,50
2590+0.000	-7,70	-2,0%	1039,885	-9,70	-2,0%	1039,925	1039,731	1038,467	794.643,514	8.177.101,821	1039,661	-2,0%	3,50	1039,621	-2,0%	5,50
2591+0.000	-7,70	-2,0%	1039,559	-9,70	-2,0%	1039,599	1039,405	1038,205	794.662,940	8.177.106,575	1039,335	-2,0%	3,50	1039,295	-2,0%	5,50
2592+0.000	-7,70	-2,0%	1039,233	-9,70	-2,0%	1039,273	1039,079	1037,895	794.682,367	8.177.111,329	1039,009	-2,0%	3,50	1038,969	-2,0%	5,50
2593+0.000	-7,70	-2,0%	1038,907	-9,70	-2,0%	1038,947	1038,753	1037,547	794.701,794	8.177.116,084	1038,683	-2,0%	3,50	1038,643	-2,0%	5,50
2594+0.000	-7,70	-2,0%	1038,581	-9,70	-2,0%	1038,621	1038,427	1037,286	794.721,220	8.177.120,838	1038,357	-2,0%	3,50	1038,317	-2,0%	5,50
2595+0.000	-7,70	-2,0%	1038,255	-9,70	-2,0%	1038,295	1038,101	1036,893	794.740,647	8.177.125,592	1038,031	-2,0%	3,50	1037,991	-2,0%	5,50
2596+0.000	-7,70	-2,0%	1037,929	-9,70	-2,0%	1037,969	1037,775	1036,630	794.760,074	8.177.130,347	1037,705	-2,0%	3,50	1037,665	-2,0%	5,50
2597+0.000	-7,70	-0,7%	1037,504	-9,70	-0,7%	1037,518	1037,449	1036,253	794.779,501	8.177.135,101	1037,379	-2,0%	3,50	1037,339	-2,0%	5,50
2598+0.000	-7,70	2,1%	1036,961	-9,70	2,1%	1036,919	1037,123	1035,859	794.798,930	8.177.139,845	1037,050	-2,1%	3,50	1037,008	-2,1%	5,50
2599+0.000	-7,70	3,8%	1036,504	-9,70	3,8%	1036,428	1036,797	1035,508	794.818,437	8.177.144,255	1036,664	-3,8%	3,50	1036,588	-3,8%	5,50
2600+0.000	-7,70	3,8%	1036,178	-9,70	3,8%	1036,102	1036,471	1035,213	794.838,048	8.177.148,177	1036,338	-3,8%	3,50	1036,262	-3,8%	5,50
2601+0.000	-7,70	3,8%	1035,852	-9,70	3,8%	1035,776	1036,145	1034,832	794.857,751	8.177.151,607	1036,012	-3,8%	3,50	1035,936	-3,8%	5,50
2602+0.000	-7,70	2,6%	1035,616	-9,70	2,6%	1035,564	1035,819	1034,427	794.877,534	8.177.154,543	1035,727	-2,6%	3,50	1035,674	-2,6%	5,50
2603+0.000	-7,70	-0,2%	1035,508	-9,70	-0,2%	1035,511	1035,493	1034,031	794.897,373	8.177.157,076	1035,423	-2,0%	3,50	1035,383	-2,0%	5,50
2604+0.000	-7,70	-2,0%	1035,317	-9,70	-2,0%	1035,357	1035,163	1033,723	794.917,217	8.177.159,570	1035,093	-2,0%	3,50	1035,053	-2,0%	5,50
2605+0.000	-7,70	-2,0%	1034,964	-9,70	-2,0%	1035,004	1034,810	1033,327	794.937,061	8.177.162,064	1034,740	-2,0%	3,50	1034,700	-2,0%	5,50
2606+0.000	-7,70	-2,0%	1034,582	-9,70	-2,0%	1034,622	1034,428	1032,886	794.956,905	8.177.164,557	1034,358	-2,0%	3,50	1034,318	-2,0%	5,50
2607+0.000	-7,70	-2,0%	1034,173	-9,70	-2,0%	1034,213	1034,019	1032,485	794.976,749	8.177.167,051	1033,949	-2,0%	3,50	1033,909	-2,0%	5,50
2608+0.000	-7,70	-2,0%	1033,737	-9,70	-2,0%	1033,777	1033,583	1032,087	794.996,592	8.177.169,545	1033,513	-2,0%	3,50	1033,473	-2,0%	5,50
2609+0.000	-7,70	-2,0%	1033,277	-9,70	-2,0%	1033,317	1033,123	1031,623	795.016,436	8.177.172,039	1033,053	-2,0%	3,50	1033,013	-2,0%	5,50
2610+0.000	-7,70	-2,0%	1032,814	-9,70	-2,0%	1032,854	1032,660	1031,161	795.036,280	8.177.174,533	1032,590	-2,0%	3,50	1032,550	-2,0%	5,50
2611+0.000	-7,70	-2,0%	1032,350	-9,70	-2,0%	1032,390	1032,196	1030,851	795.056,124	8.177.177,027	1032,126	-2,0%	3,50	1032,086	-2,0%	5,50
2612+0.000	-7,70	-2,0%	1031,887	-9,70	-2,0%	1031,927	1031,733	1030,490	795.075,968	8.177.179,521	1031,663	-2,0%	3,50	1031,623	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

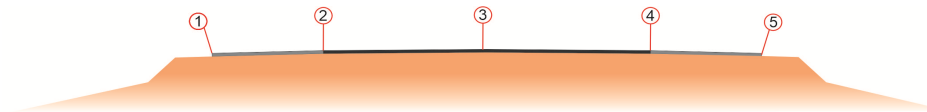
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2613+0.000	-7,70	-2,0%	1031,424	-9,70	-2,0%	1031,464	1031,270	1031,538	795.095,812	8.177.182,015	1031,200	-2,0%	3,50	1031,160	-2,0%	5,50
2614+0.000	-7,70	-2,0%	1030,960	-9,70	-2,0%	1031,000	1030,806	1029,796	795.115,656	8.177.184,509	1030,736	-2,0%	3,50	1030,696	-2,0%	5,50
2615+0.000	-7,70	-2,0%	1030,497	-9,70	-2,0%	1030,537	1030,343	1028,794	795.135,500	8.177.187,003	1030,273	-2,0%	3,50	1030,233	-2,0%	5,50
2616+0.000	-7,70	-2,0%	1030,034	-9,70	-2,0%	1030,074	1029,880	1028,348	795.155,344	8.177.189,497	1029,810	-2,0%	3,50	1029,770	-2,0%	5,50
2617+0.000	-7,70	-2,0%	1029,570	-9,70	-2,0%	1029,610	1029,416	1027,897	795.175,187	8.177.191,991	1029,346	-2,0%	3,50	1029,306	-2,0%	5,50
2618+0.000	-7,70	-2,0%	1029,107	-9,70	-2,0%	1029,147	1028,953	1027,250	795.195,031	8.177.194,485	1028,883	-2,0%	3,50	1028,843	-2,0%	5,50
2619+0.000	-7,70	-2,0%	1028,644	-9,70	-2,0%	1028,684	1028,490	1026,820	795.214,875	8.177.196,979	1028,420	-2,0%	3,50	1028,380	-2,0%	5,50
2620+0.000	-7,70	-2,0%	1028,181	-9,70	-2,0%	1028,221	1028,027	1026,303	795.234,719	8.177.199,473	1027,957	-2,0%	3,50	1027,917	-2,0%	5,50
2621+0.000	-7,70	-2,0%	1027,717	-9,70	-2,0%	1027,757	1027,563	1025,955	795.254,563	8.177.201,967	1027,534	-0,8%	3,50	1027,517	-0,8%	5,50
2622+0.000	-7,70	-2,0%	1027,254	-9,70	-2,0%	1027,294	1027,100	1025,340	795.274,406	8.177.204,468	1027,170	2,0%	3,50	1027,209	2,0%	5,50
2623+0.000	-7,70	-3,8%	1026,930	-9,70	-3,8%	1027,006	1026,637	1024,997	795.294,205	8.177.207,292	1026,770	3,8%	3,50	1026,846	3,8%	5,50
2624+0.000	-7,70	-3,8%	1026,466	-9,70	-3,8%	1026,542	1026,173	1024,476	795.313,928	8.177.210,610	1026,306	3,8%	3,50	1026,382	3,8%	5,50
2625+0.000	-7,70	-3,8%	1026,003	-9,70	-3,8%	1026,079	1025,710	1024,080	795.333,561	8.177.214,420	1025,843	3,8%	3,50	1025,919	3,8%	5,50
2626+0.000	-7,70	-3,8%	1025,540	-9,70	-3,8%	1025,616	1025,247	1023,738	795.353,093	8.177.218,719	1025,380	3,8%	3,50	1025,456	3,8%	5,50
2627+0.000	-7,70	-3,8%	1025,076	-9,70	-3,8%	1025,152	1024,783	1023,339	795.372,511	8.177.223,506	1024,916	3,8%	3,50	1024,992	3,8%	5,50
2628+0.000	-7,70	-3,8%	1024,613	-9,70	-3,8%	1024,689	1024,320	1022,933	795.391,803	8.177.228,776	1024,453	3,8%	3,50	1024,529	3,8%	5,50
2629+0.000	-7,70	-2,3%	1024,033	-9,70	-2,3%	1024,078	1023,857	1022,610	795.410,958	8.177.234,527	1023,937	2,3%	3,50	1023,982	2,3%	5,50
2630+0.000	-7,70	-2,0%	1023,561	-9,70	-2,0%	1023,601	1023,407	1022,218	795.430,005	8.177.240,629	1023,388	-0,5%	3,50	1023,377	-0,5%	5,50
2631+0.000	-7,70	-2,0%	1023,151	-9,70	-2,0%	1023,191	1022,997	1021,843	795.449,046	8.177.246,747	1022,927	-2,0%	3,50	1022,887	-2,0%	5,50
2632+0.000	-7,70	-2,0%	1022,781	-9,70	-2,0%	1022,821	1022,627	1021,510	795.468,087	8.177.252,866	1022,557	-2,0%	3,50	1022,517	-2,0%	5,50
2633+0.000	-7,70	-2,0%	1022,451	-9,70	-2,0%	1022,491	1022,297	1021,159	795.487,128	8.177.258,985	1022,227	-2,0%	3,50	1022,187	-2,0%	5,50
2634+0.000	-7,70	-2,0%	1022,162	-9,70	-2,0%	1022,202	1022,008	1020,883	795.506,169	8.177.265,103	1021,938	-2,0%	3,50	1021,898	-2,0%	5,50
2635+0.000	-7,70	-2,0%	1021,913	-9,70	-2,0%	1021,953	1021,759	1020,544	795.525,210	8.177.271,222	1021,689	-2,0%	3,50	1021,649	-2,0%	5,50
2636+0.000	-7,70	-2,0%	1021,691	-9,70	-2,0%	1021,731	1021,537	1020,300	795.544,251	8.177.277,340	1021,467	-2,0%	3,50	1021,427	-2,0%	5,50
2637+0.000	-7,70	-2,0%	1021,469	-9,70	-2,0%	1021,509	1021,315	1020,022	795.563,292	8.177.283,459	1021,245	-2,0%	3,50	1021,205	-2,0%	5,50
2638+0.000	-7,70	-2,0%	1021,248	-9,70	-2,0%	1021,288	1021,094	1019,762	795.582,333	8.177.289,578	1021,024	-2,0%	3,50	1020,984	-2,0%	5,50
2639+0.000	-7,70	-2,0%	1021,026	-9,70	-2,0%	1021,066	1020,872	1019,521	795.601,374	8.177.295,696	1020,802	-2,0%	3,50	1020,762	-2,0%	5,50
2640+0.000	-7,70	-2,0%	1020,805	-9,70	-2,0%	1020,845	1020,651	1019,676	795.620,415	8.177.301,815	1020,581	-2,0%	3,50	1020,541	-2,0%	5,50
2641+0.000	-7,70	-2,0%	1020,583	-9,70	-2,0%	1020,623	1020,429	1019,110	795.639,457	8.177.307,933	1020,359	-2,0%	3,50	1020,319	-2,0%	5,50
2642+0.000	-7,70	-2,0%	1020,362	-9,70	-2,0%	1020,402	1020,208	1019,062	795.658,498	8.177.314,052	1020,138	-2,0%	3,50	1020,098	-2,0%	5,50
2643+0.000	-7,70	-2,0%	1020,141	-9,70	-2,0%	1020,181	1019,987	1019,432	795.677,539	8.177.320,171	1019,917	-2,0%	3,50	1019,877	-2,0%	5,50
2644+0.000	-7,70	-2,0%	1019,919	-9,70	-2,0%	1019,959	1019,765	1018,409	795.696,580	8.177.326,289	1019,695	-2,0%	3,50	1019,655	-2,0%	5,50
2645+0.000	-7,70	-2,0%	1019,698	-9,70	-2,0%	1019,738	1019,544	1018,152	795.715,621	8.177.332,408	1019,474	-2,0%	3,50	1019,434	-2,0%	5,50
2646+0.000	-7,70	-2,0%	1019,476	-9,70	-2,0%	1019,516	1019,322	1017,973	795.734,662	8.177.338,527	1019,252	-2,0%	3,50	1019,212	-2,0%	5,50
2647+0.000	-7,70	-2,0%	1019,255	-9,70	-2,0%	1019,295	1019,101	1017,743	795.753,703	8.177.344,645	1019,031	-2,0%	3,50	1018,991	-2,0%	5,50
2648+0.000	-7,70	-2,0%	1019,033	-9,70	-2,0%	1019,073	1018,879	1017,481	795.772,744	8.177.350,764	1018,809	-2,0%	3,50	1018,769	-2,0%	5,50
2649+0.000	-7,70	-2,0%	1018,812	-9,70	-2,0%	1018,852	1018,658	1017,361	795.791,785	8.177.356,882	1018,588	-2,0%	3,50	1018,548	-2,0%	5,50
2650+0.000	-7,70	-2,0%	1018,590	-9,70	-2,0%	1018,630	1018,436	1017,134	795.810,826	8.177.363,001	1018,366	-2,0%	3,50	1018,326	-2,0%	5,50
2651+0.000	-7,70	-2,0%	1018,369	-9,70	-2,0%	1018,409	1018,215	1016,917	795.829,867	8.177.369,120	1018,145	-2,0%	3,50	1018,105	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

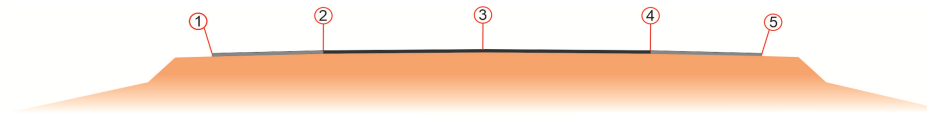
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2652+0.000	-7,70	-2,0%	1018,147	-9,70	-2,0%	1018,187	1017,993	1016,666	795.848,908	8.177.375,238	1017,923	-2,0%	3,50	1017,883	-2,0%	5,50
2653+0.000	-7,70	-2,0%	1017,926	-9,70	-2,0%	1017,966	1017,772	1016,439	795.867,949	8.177.381,357	1017,702	-2,0%	3,50	1017,662	-2,0%	5,50
2654+0.000	-7,70	-2,0%	1017,704	-9,70	-2,0%	1017,744	1017,550	1016,278	795.886,991	8.177.387,475	1017,480	-2,0%	3,50	1017,440	-2,0%	5,50
2655+0.000	-7,70	-2,0%	1017,483	-9,70	-2,0%	1017,523	1017,329	1015,994	795.906,032	8.177.393,594	1017,259	-2,0%	3,50	1017,219	-2,0%	5,50
2656+0.000	-7,70	-2,0%	1017,261	-9,70	-2,0%	1017,301	1017,107	1015,761	795.925,073	8.177.399,713	1017,037	-2,0%	3,50	1016,997	-2,0%	5,50
2657+0.000	-7,70	-2,0%	1017,040	-9,70	-2,0%	1017,080	1016,886	1015,604	795.944,114	8.177.405,831	1016,816	-2,0%	3,50	1016,776	-2,0%	5,50
2658+0.000	-7,70	-2,0%	1016,818	-9,70	-2,0%	1016,858	1016,664	1015,225	795.963,155	8.177.411,950	1016,594	-2,0%	3,50	1016,554	-2,0%	5,50
2659+0.000	-7,70	-2,0%	1016,597	-9,70	-2,0%	1016,637	1016,443	1014,986	795.982,196	8.177.418,069	1016,373	-2,0%	3,50	1016,333	-2,0%	5,50
2660+0.000	-7,70	-2,0%	1016,375	-9,70	-2,0%	1016,415	1016,221	1014,718	796.001,237	8.177.424,187	1016,151	-2,0%	3,50	1016,111	-2,0%	5,50
2661+0.000	-7,70	-2,0%	1016,142	-9,70	-2,0%	1016,182	1015,988	1014,284	796.020,278	8.177.430,306	1015,918	-2,0%	3,50	1015,878	-2,0%	5,50
2662+0.000	-7,70	-0,9%	1015,800	-9,70	-0,9%	1015,818	1015,729	1014,144	796.039,319	8.177.436,424	1015,659	-2,0%	3,50	1015,619	-2,0%	5,50
2663+0.000	-7,70	1,9%	1015,300	-9,70	1,9%	1015,263	1015,446	1013,904	796.058,362	8.177.442,539	1015,376	-2,0%	3,50	1015,336	-2,0%	5,50
2664+0.000	-7,70	3,8%	1014,845	-9,70	3,8%	1014,769	1015,138	1013,373	796.077,496	8.177.448,356	1015,005	-3,8%	3,50	1014,929	-3,8%	5,50
2665+0.000	-7,70	3,8%	1014,512	-9,70	3,8%	1014,436	1014,805	1013,197	796.096,771	8.177.453,692	1014,672	-3,8%	3,50	1014,596	-3,8%	5,50
2666+0.000	-7,70	3,8%	1014,155	-9,70	3,8%	1014,079	1014,448	1013,662	796.116,172	8.177.458,546	1014,315	-3,8%	3,50	1014,239	-3,8%	5,50
2667+0.000	-7,70	3,8%	1013,785	-9,70	3,8%	1013,709	1014,078	1012,568	796.135,689	8.177.462,913	1013,945	-3,8%	3,50	1013,869	-3,8%	5,50
2668+0.000	-7,70	3,8%	1013,414	-9,70	3,8%	1013,338	1013,707	1012,330	796.155,309	8.177.466,790	1013,574	-3,8%	3,50	1013,498	-3,8%	5,50
2669+0.000	-7,70	3,8%	1013,044	-9,70	3,8%	1012,968	1013,337	1012,005	796.175,020	8.177.470,176	1013,204	-3,8%	3,50	1013,128	-3,8%	5,50
2670+0.000	-7,70	3,8%	1012,674	-9,70	3,8%	1012,598	1012,967	1011,574	796.194,809	8.177.473,068	1012,834	-3,8%	3,50	1012,758	-3,8%	5,50
2671+0.000	-7,70	3,8%	1012,304	-9,70	3,8%	1012,228	1012,597	1011,086	796.214,665	8.177.475,465	1012,464	-3,8%	3,50	1012,388	-3,8%	5,50
2672+0.000	-7,70	3,8%	1011,933	-9,70	3,8%	1011,857	1012,226	1010,821	796.234,574	8.177.477,364	1012,093	-3,8%	3,50	1012,017	-3,8%	5,50
2673+0.000	-7,70	3,8%	1011,563	-9,70	3,8%	1011,487	1011,856	1010,397	796.254,524	8.177.478,765	1011,723	-3,8%	3,50	1011,647	-3,8%	5,50
2674+0.000	-7,70	2,1%	1011,327	-9,70	2,1%	1011,286	1011,486	1009,746	796.274,503	8.177.479,667	1011,414	-2,1%	3,50	1011,373	-2,1%	5,50
2675+0.000	-7,70	-0,8%	1011,175	-9,70	-0,8%	1011,190	1011,116	1009,371	796.294,495	8.177.480,233	1011,046	-2,0%	3,50	1011,006	-2,0%	5,50
2676+0.000	-7,70	-2,0%	1010,899	-9,70	-2,0%	1010,939	1010,745	1008,863	796.314,487	8.177.480,789	1010,675	-2,0%	3,50	1010,635	-2,0%	5,50
2677+0.000	-7,70	-2,0%	1010,529	-9,70	-2,0%	1010,569	1010,375	1008,547	796.334,480	8.177.481,346	1010,305	-2,0%	3,50	1010,265	-2,0%	5,50
2678+0.000	-7,70	-2,0%	1010,159	-9,70	-2,0%	1010,199	1010,005	1008,217	796.354,472	8.177.481,902	1009,935	-2,0%	3,50	1009,895	-2,0%	5,50
2679+0.000	-7,70	-2,0%	1009,789	-9,70	-2,0%	1009,829	1009,635	1007,906	796.374,464	8.177.482,459	1009,565	-2,0%	3,50	1009,525	-2,0%	5,50
2680+0.000	-7,70	-2,0%	1009,418	-9,70	-2,0%	1009,458	1009,264	1007,531	796.394,456	8.177.483,015	1009,194	-2,0%	3,50	1009,154	-2,0%	5,50
2681+0.000	-7,70	-2,0%	1009,048	-9,70	-2,0%	1009,088	1008,894	1007,104	796.414,449	8.177.483,572	1008,824	-2,0%	3,50	1008,784	-2,0%	5,50
2682+0.000	-7,70	-2,0%	1008,678	-9,70	-2,0%	1008,718	1008,524	1006,821	796.434,441	8.177.484,128	1008,454	-2,0%	3,50	1008,414	-2,0%	5,50
2683+0.000	-7,70	-2,0%	1008,308	-9,70	-2,0%	1008,348	1008,154	1006,351	796.454,433	8.177.484,685	1008,084	-2,0%	3,50	1008,044	-2,0%	5,50
2684+0.000	-7,70	-2,0%	1007,937	-9,70	-2,0%	1007,977	1007,783	1006,033	796.474,426	8.177.485,241	1007,713	-2,0%	3,50	1007,673	-2,0%	5,50
2685+0.000	-7,70	-2,0%	1007,567	-9,70	-2,0%	1007,607	1007,413	1005,672	796.494,418	8.177.485,798	1007,343	-2,0%	3,50	1007,303	-2,0%	5,50
2686+0.000	-7,70	-2,0%	1007,197	-9,70	-2,0%	1007,237	1007,043	1005,484	796.514,410	8.177.486,354	1006,973	-2,0%	3,50	1006,933	-2,0%	5,50
2687+0.000	-7,70	-2,0%	1006,827	-9,70	-2,0%	1006,867	1006,673	1005,014	796.534,402	8.177.486,911	1006,603	-2,0%	3,50	1006,563	-2,0%	5,50
2688+0.000	-7,70	-2,0%	1006,456	-9,70	-2,0%	1006,496	1006,302	1004,695	796.554,395	8.177.487,467	1006,232	-2,0%	3,50	1006,192	-2,0%	5,50
2689+0.000	-7,70	-2,0%	1006,086	-9,70	-2,0%	1006,126	1005,932	1004,532	796.574,387	8.177.488,024	1005,862	-2,0%	3,50	1005,822	-2,0%	5,50
2690+0.000	-7,70	-2,0%	1005,716	-9,70	-2,0%	1005,756	1005,562	1004,162	796.594,379	8.177.488,580	1005,492	-2,0%	3,50	1005,452	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

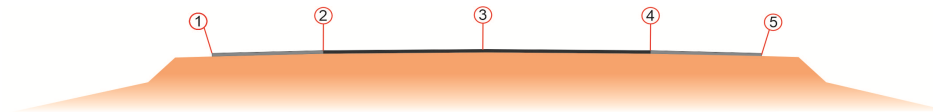
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2691+0.000	-7,70	-2,0%	1005,346	-9,70	-2,0%	1005,386	1005,192	1003,485	796.614,371	8.177.489,137	1005,122	-2,0%	3,50	1005,082	-2,0%	5,50
2692+0.000	-7,70	-2,0%	1004,975	-9,70	-2,0%	1005,015	1004,821	1003,357	796.634,364	8.177.489,693	1004,751	-2,0%	3,50	1004,711	-2,0%	5,50
2693+0.000	-7,70	-2,0%	1004,605	-9,70	-2,0%	1004,645	1004,451	1003,085	796.654,356	8.177.490,250	1004,381	-2,0%	3,50	1004,341	-2,0%	5,50
2694+0.000	-7,70	-2,0%	1004,235	-9,70	-2,0%	1004,275	1004,081	1002,675	796.674,348	8.177.490,806	1004,011	-2,0%	3,50	1003,971	-2,0%	5,50
2695+0.000	-7,70	-2,0%	1003,865	-9,70	-2,0%	1003,905	1003,711	1002,429	796.694,340	8.177.491,362	1003,641	-2,0%	3,50	1003,601	-2,0%	5,50
2696+0.000	-7,70	-2,0%	1003,507	-9,70	-2,0%	1003,547	1003,353	1002,043	796.714,333	8.177.491,919	1003,283	-2,0%	3,50	1003,243	-2,0%	5,50
2697+0.000	-7,70	-2,0%	1003,175	-9,70	-2,0%	1003,215	1003,021	1001,690	796.734,325	8.177.492,475	1002,951	-2,0%	3,50	1002,911	-2,0%	5,50
2698+0.000	-7,70	-2,0%	1002,868	-9,70	-2,0%	1002,908	1002,714	1001,561	796.754,317	8.177.493,032	1002,644	-2,0%	3,50	1002,604	-2,0%	5,50
2699+0.000	-7,70	-2,0%	1002,588	-9,70	-2,0%	1002,628	1002,434	1001,140	796.774,309	8.177.493,588	1002,364	-2,0%	3,50	1002,324	-2,0%	5,50
2700+0.000	-7,70	-2,0%	1002,333	-9,70	-2,0%	1002,373	1002,179	1000,943	796.794,302	8.177.494,145	1002,109	-2,0%	3,50	1002,069	-2,0%	5,50
2701+0.000	-7,70	-2,0%	1002,104	-9,70	-2,0%	1002,144	1001,950	1000,765	796.814,294	8.177.494,701	1001,880	-2,0%	3,50	1001,840	-2,0%	5,50
2702+0.000	-7,70	-2,0%	1001,889	-9,70	-2,0%	1001,929	1001,735	1000,570	796.834,286	8.177.495,258	1001,665	-2,0%	3,50	1001,625	-2,0%	5,50
2703+0.000	-7,70	-2,0%	1001,673	-9,70	-2,0%	1001,713	1001,519	1000,351	796.854,278	8.177.495,814	1001,493	-0,8%	3,50	1001,478	-0,8%	5,50
2704+0.000	-7,70	-2,1%	1001,461	-9,70	-2,1%	1001,502	1001,303	1000,142	796.874,270	8.177.496,376	1001,375	2,1%	3,50	1001,416	2,1%	5,50
2705+0.000	-7,70	-4,2%	1001,411	-9,70	-4,2%	1001,495	1001,088	999,655	796.894,247	8.177.497,328	1001,235	4,2%	3,50	1001,319	4,2%	5,50
2706+0.000	-7,70	-4,2%	1001,195	-9,70	-4,2%	1001,279	1000,872	999,750	796.914,184	8.177.498,903	1001,019	4,2%	3,50	1001,103	4,2%	5,50
2707+0.000	-7,70	-4,2%	1000,980	-9,70	-4,2%	1001,064	1000,657	999,485	796.934,062	8.177.501,101	1000,804	4,2%	3,50	1000,888	4,2%	5,50
2708+0.000	-7,70	-4,2%	1000,764	-9,70	-4,2%	1000,848	1000,441	999,160	796.953,862	8.177.503,918	1000,588	4,2%	3,50	1000,672	4,2%	5,50
2709+0.000	-7,70	-4,2%	1000,548	-9,70	-4,2%	1000,632	1000,225	999,107	796.973,564	8.177.507,353	1000,372	4,2%	3,50	1000,456	4,2%	5,50
2710+0.000	-7,70	-4,2%	1000,333	-9,70	-4,2%	1000,417	1000,010	998,735	796.993,149	8.177.511,401	1000,157	4,2%	3,50	1000,241	4,2%	5,50
2711+0.000	-7,70	-4,2%	1000,117	-9,70	-4,2%	1000,201	999,794	998,580	797.012,598	8.177.516,060	999,941	4,2%	3,50	1000,025	4,2%	5,50
2712+0.000	-7,70	-4,2%	999,902	-9,70	-4,2%	999,986	999,579	998,312	797.031,892	8.177.521,324	999,726	4,2%	3,50	999,810	4,2%	5,50
2713+0.000	-7,70	-4,2%	999,686	-9,70	-4,2%	999,770	999,363	998,107	797.051,012	8.177.527,188	999,510	4,2%	3,50	999,594	4,2%	5,50
2714+0.000	-7,70	-4,2%	999,471	-9,70	-4,2%	999,555	999,148	997,856	797.069,940	8.177.533,647	999,295	4,2%	3,50	999,379	4,2%	5,50
2715+0.000	-7,70	-4,2%	999,237	-9,70	-4,2%	999,321	998,914	997,538	797.088,656	8.177.540,694	999,061	4,2%	3,50	999,145	4,2%	5,50
2716+0.000	-7,70	-4,2%	998,963	-9,70	-4,2%	999,047	998,640	997,008	797.107,143	8.177.548,322	998,787	4,2%	3,50	998,871	4,2%	5,50
2717+0.000	-7,70	-4,2%	998,649	-9,70	-4,2%	998,733	998,326	996,681	797.125,383	8.177.556,525	998,473	4,2%	3,50	998,557	4,2%	5,50
2718+0.000	-7,70	-4,2%	998,296	-9,70	-4,2%	998,380	997,973	996,709	797.143,358	8.177.565,293	998,120	4,2%	3,50	998,204	4,2%	5,50
2719+0.000	-7,70	-4,2%	997,903	-9,70	-4,2%	997,987	997,580	996,306	797.161,050	8.177.574,618	997,727	4,2%	3,50	997,811	4,2%	5,50
2720+0.000	-7,70	-4,2%	997,489	-9,70	-4,2%	997,573	997,166	996,103	797.178,441	8.177.584,492	997,313	4,2%	3,50	997,397	4,2%	5,50
2721+0.000	-7,70	-2,0%	996,906	-9,70	-2,0%	996,946	996,752	995,763	797.195,516	8.177.594,904	996,821	2,0%	3,50	996,861	2,0%	5,50
2722+0.000	-7,70	-2,0%	996,491	-9,70	-2,0%	996,531	996,337	995,449	797.212,393	8.177.605,636	996,308	-0,8%	3,50	996,292	-0,8%	5,50
2723+0.000	-7,70	-2,0%	996,077	-9,70	-2,0%	996,117	995,923	995,212	797.229,268	8.177.616,370	995,853	-2,0%	3,50	995,813	-2,0%	5,50
2724+0.000	-7,70	-2,0%	995,663	-9,70	-2,0%	995,703	995,509	994,710	797.246,144	8.177.627,105	995,439	-2,0%	3,50	995,399	-2,0%	5,50
2725+0.000	-7,70	-2,0%	995,248	-9,70	-2,0%	995,288	995,094	994,689	797.263,019	8.177.637,840	995,024	-2,0%	3,50	994,984	-2,0%	5,50
2726+0.000	-7,70	-2,0%	994,834	-9,70	-2,0%	994,874	994,680	994,117	797.279,894	8.177.648,574	994,610	-2,0%	3,50	994,570	-2,0%	5,50
2727+0.000	-7,70	-2,0%	994,420	-9,70	-2,0%	994,460	994,266	993,504	797.296,769	8.177.659,309	994,196	-2,0%	3,50	994,156	-2,0%	5,50
2728+0.000	-7,70	-2,0%	994,005	-9,70	-2,0%	994,045	993,851	993,087	797.313,644	8.177.670,043	993,781	-2,0%	3,50	993,741	-2,0%	5,50
2729+0.000	-7,70	-2,0%	993,591	-9,70	-2,0%	993,631	993,437	992,938	797.330,519	8.177.680,778	993,367	-2,0%	3,50	993,327	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Estrada Chapada das Covas

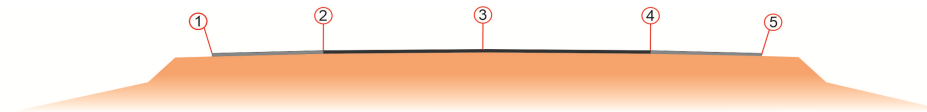
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
2730+0.000	-7,70	-2,0%	993,177	-9,70	-2,0%	993,217	993,023	992,425	797.347,394	8.177.691,512	992,953	-2,0%	3,50	992,913	-2,0%	5,50
2731+0.000	-7,70	-2,0%	992,755	-9,70	-2,0%	992,795	992,601	992,138	797.364,269	8.177.702,247	992,531	-2,0%	3,50	992,491	-2,0%	5,50
2732+0.000	-7,70	-2,0%	992,306	-9,70	-2,0%	992,346	992,152	991,614	797.381,144	8.177.712,982	992,082	-2,0%	3,50	992,042	-2,0%	5,50
2733+0.000	-7,70	-2,0%	991,829	-9,70	-2,0%	991,869	991,675	991,122	797.398,019	8.177.723,716	991,605	-2,0%	3,50	991,565	-2,0%	5,50
2734+0.000	-7,70	-2,0%	991,326	-9,70	-2,0%	991,366	991,172	990,720	797.414,895	8.177.734,451	991,102	-2,0%	3,50	991,062	-2,0%	5,50
2735+0.000	-7,70	-2,0%	990,794	-9,70	-2,0%	990,834	990,640	989,970	797.431,770	8.177.745,185	990,570	-2,0%	3,50	990,530	-2,0%	5,50
2736+0.000	-7,70	-2,0%	990,236	-9,70	-2,0%	990,276	990,082	989,471	797.448,645	8.177.755,920	990,012	-2,0%	3,50	989,972	-2,0%	5,50
2737+0.000	-7,70	-2,0%	989,650	-9,70	-2,0%	989,690	989,496	989,106	797.465,520	8.177.766,654	989,426	-2,0%	3,50	989,386	-2,0%	5,50
2738+0.000	-7,70	-2,0%	989,036	-9,70	-2,0%	989,076	988,882	988,527	797.482,395	8.177.777,389	988,812	-2,0%	3,50	988,772	-2,0%	5,50
2739+0.000	-7,70	-2,0%	988,403	-9,70	-2,0%	988,443	988,249	988,197	797.499,270	8.177.788,124	988,179	-2,0%	3,50	988,139	-2,0%	5,50
2740+0.000	-7,70	-2,0%	987,769	-9,70	-2,0%	987,809	987,615	987,778	797.516,145	8.177.798,858	987,545	-2,0%	3,50	987,505	-2,0%	5,50
2741+0.000	-7,70	-2,0%	987,135	-9,70	-2,0%	987,175	986,981	986,961	797.533,020	8.177.809,593	986,911	-2,0%	3,50	986,871	-2,0%	5,50
2742+0.000	-7,70	-2,0%	986,501	-9,70	-2,0%	986,541	986,347	986,416	797.549,895	8.177.820,327	986,277	-2,0%	3,50	986,237	-2,0%	5,50
2743+0.000	-7,70	-2,0%	985,867	-9,70	-2,0%	985,907	985,713	985,977	797.566,770	8.177.831,062	985,643	-2,0%	3,50	985,603	-2,0%	5,50
2744+0.000	5,50	0,0%	985,097	3,50	0,0%	985,096	985,095	985,851	797.566,770	8.177.831,062	985,024	-2,0%	3,50	984,983	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Interseção GO-437**

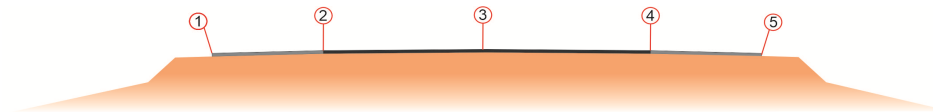
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
0+0.000	4,00	2,0%	1051,501	3,50	2,0%	1051,420	1051,421	1051,350	750.326,909	8.180.920,654	1051,280	-2,0%	3,50	1051,311	-2,0%	5,50
1+0.000	4,00	2,0%	1051,591	3,50	2,0%	1051,276	1051,511	1051,206	750.327,381	8.180.900,660	1051,136	-2,0%	3,50	1051,026	-2,0%	5,50
2+0.000	4,00	2,0%	1051,681	3,50	2,0%	1051,155	1051,601	1051,085	750.327,852	8.180.880,665	1051,015	-2,0%	3,50	1050,905	-2,0%	5,50
3+0.000	4,00	2,0%	1051,771	3,50	2,0%	1051,138	1051,691	1051,068	750.328,324	8.180.860,671	1050,998	-2,0%	3,50	1050,888	-2,0%	5,50
4+0.000	4,00	2,0%	1051,862	3,50	2,0%	1051,259	1051,782	1051,189	750.328,852	8.180.840,678	1051,119	-2,0%	3,50	1051,009	-2,0%	5,50
5+0.000	4,00	2,0%	1051,952	3,50	2,0%	1051,103	1051,872	1051,033	750.330,602	8.180.820,761	1050,963	-2,0%	3,50	1050,853	-2,0%	5,50
6+0.000	4,00	2,0%	1052,042	3,50	2,0%	1051,041	1051,962	1050,971	750.334,024	8.180.801,062	1050,901	-2,0%	3,50	1050,791	-2,0%	5,50
7+0.000	4,00	2,0%	1052,132	3,50	2,0%	1050,955	1052,052	1050,885	750.339,095	8.180.781,721	1050,815	-2,0%	3,50	1050,705	-2,0%	5,50
8+0.000				7,00	2,0%	1051,098	1052,143	1050,958	750.345,569	8.180.762,800	1050,888	-2,0%	3,50	1050,778	-2,0%	5,50
9+0.000				7,00	2,0%	1051,234	1052,233	1051,094	750.352,233	8.180.743,943	1051,024	-2,0%	3,50	1050,914	-2,0%	5,50
10+0.000				7,00	2,0%	1051,305	1052,323	1051,165	750.358,896	8.180.725,086	1051,095	-2,0%	3,50	1050,985	-2,0%	5,50
11+0.000				7,00	2,0%	1051,210	1052,414	1051,070	750.365,560	8.180.706,228	1051,000	-2,0%	3,50	1050,890	-2,0%	5,50
12+0.000				6,55	2,0%	1051,010	1052,504	1050,879	750.372,223	8.180.687,371	1050,809	-2,0%	3,50	1050,699	-2,0%	5,50
13+0.000				5,40	2,0%	1050,571	1052,594	1050,463	750.378,887	8.180.668,514	1050,393	-2,0%	3,50	1050,283	-2,0%	5,50
14+0.000				4,40	2,0%	1050,209	1052,684	1050,121	750.385,551	8.180.649,656	1050,051	-2,0%	3,50	1049,941	-2,0%	5,50
15+0.000	4,00	2,0%	1052,855	3,50	2,0%	1049,938	1052,775	1049,868	750.392,214	8.180.630,799	1053,298	98,0%	3,50	1058,688	98,0%	5,50
16+0.000	4,00	2,0%	1052,945	3,50	2,0%	1050,117	1052,865	1050,047	750.398,878	8.180.611,942	1056,977	198,0%	3,50	1067,867	198,0%	5,50
17+0.000	4,00	2,0%	1053,035	3,50	2,0%	1050,136	1052,955	1050,066	750.405,541	8.180.593,085	1049,996	-2,0%	3,50	1049,886	-2,0%	5,50
18+0.000	4,00	2,0%	1053,125	3,50	2,0%	1050,329	1053,045	1050,259	750.412,205	8.180.574,227	1050,189	-2,0%	3,50	1050,079	-2,0%	5,50
19+0.000	4,00	2,0%	1053,216	3,50	2,0%	1050,504	1053,136	1050,434	750.418,869	8.180.555,370	1050,364	-2,0%	3,50	1050,254	-2,0%	5,50
20+0.000	4,00	2,0%	1053,306	3,50	2,0%	1050,816	1053,226	1050,746	750.425,532	8.180.536,513	1050,676	-2,0%	3,50	1050,566	-2,0%	5,50
21+0.000	4,00	2,0%	1053,396	3,50	2,0%	1051,156	1053,316	1051,086	750.432,196	8.180.517,656	1051,016	-2,0%	3,50	1050,906	-2,0%	5,50
22+0.000	4,00	2,0%	1053,486	3,50	2,0%	1051,440	1053,406	1051,370	750.438,859	8.180.498,798	1051,300	-2,0%	3,50	1051,190	-2,0%	5,50
23+0.000	4,00	2,0%	1053,577	3,50	2,0%	1051,773	1053,497	1051,703	750.445,523	8.180.479,941	1051,633	-2,0%	3,50	1051,523	-2,0%	5,50
24+0.000	4,00	2,0%	1053,667	3,50	2,0%	1052,340	1053,587	1052,270	750.452,187	8.180.461,084	1052,200	-2,0%	3,50	1052,090	-2,0%	5,50
25+0.000	4,00	2,0%	1053,757	3,50	2,0%	1052,528	1053,677	1052,458	750.458,850	8.180.442,226	1052,388	-2,0%	3,50	1052,278	-2,0%	5,50
26+0.000	4,00	2,0%	1053,847	3,50	2,0%	1052,687	1053,767	1052,617	750.465,514	8.180.423,369	1052,547	-2,0%	3,50	1052,437	-2,0%	5,50
27+0.000	4,00	2,0%	1053,938	3,50	2,0%	1052,770	1053,858	1052,700	750.472,177	8.180.404,512	1052,630	-2,0%	3,50	1052,520	-2,0%	5,50
28+0.000	4,00	2,0%	1054,028	3,50	2,0%	1052,862	1053,948	1052,792	750.478,841	8.180.385,655	1052,722	-2,0%	3,50	1052,612	-2,0%	5,50
29+0.000	4,00	2,0%	1054,118	3,50	2,0%	1053,020	1054,038	1052,950	750.485,504	8.180.366,797	1052,880	-2,0%	3,50	1052,770	-2,0%	5,50
30+0.000	4,00	2,0%	1054,169	3,50	2,0%	1053,125	1054,089	1053,055	750.492,168	8.180.347,940	1052,985	-2,0%	3,50	1052,875	-2,0%	5,50
31+0.000	4,00	2,0%	1054,141	3,50	2,0%	1053,221	1054,061	1053,151	750.498,832	8.180.329,083	1053,081	-2,0%	3,50	1052,971	-2,0%	5,50
32+0.000	4,00	2,0%	1054,034	3,50	2,0%	1053,237	1053,954	1053,167	750.505,495	8.180.310,226	1053,097	-2,0%	3,50	1052,987	-2,0%	5,50
33+0.000				4,40	2,0%	1053,228	1053,767	1053,140	750.512,159	8.180.291,368	1053,070	-2,0%	3,50	1052,960	-2,0%	5,50
34+0.000				5,40	2,0%	1053,139	1053,541	1053,031	750.518,822	8.180.272,511	1052,961	-2,0%	3,50	1052,851	-2,0%	5,50
35+0.000				6,60	2,0%	1053,030	1053,315	1052,898	750.525,486	8.180.253,654	1052,828	-2,0%	3,50	1052,718	-2,0%	5,50
36+0.000				7,00	2,0%	1052,911	1053,089	1052,771	750.532,150	8.180.234,797	1052,701	-2,0%	3,50	1052,591	-2,0%	5,50
37+0.000				7,00	2,0%	1052,782	1052,863	1052,642	750.538,813	8.180.215,939	1052,572	-2,0%	3,50	1052,462	-2,0%	5,50
38+0.000				7,00	2,0%	1052,653	1052,637	1052,513	750.545,477	8.180.197,082	1052,443	-2,0%	3,50	1052,333	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: **Interseção GO-437**

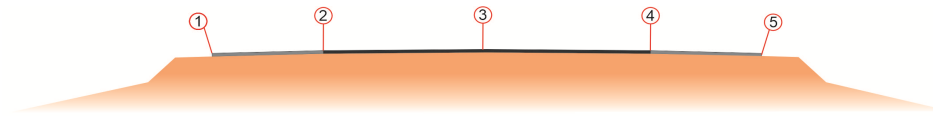
Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
39+0.000	4,00	2,0%	1052,490	3,50	2,0%	1052,473	1052,410	1052,403	750.552,446	8.180.178,339	1052,333	-2,0%	3,50	1052,223	-2,0%	5,50
40+0.000	4,00	2,0%	1052,264	3,50	2,0%	1052,262	1052,184	1052,192	750.560,875	8.180.160,208	1052,122	-2,0%	3,50	1052,012	-2,0%	5,50
41+0.000	4,00	2,0%	1052,038	3,50	2,0%	1052,046	1051,958	1051,976	750.570,821	8.180.142,864	1051,906	-2,0%	3,50	1051,796	-2,0%	5,50
42+0.000	4,00	2,0%	1051,812	3,50	2,0%	1051,657	1051,732	1051,587	750.582,211	8.180.126,432	1051,517	-2,0%	3,50	1051,407	-2,0%	5,50
43+0.000	4,00	2,0%	1051,586	3,50	2,0%	1051,131	1051,506	1051,061	750.594,402	8.180.110,577	1050,991	-2,0%	3,50	1050,881	-2,0%	5,50
44+0.000	4,00	2,0%	1051,359	3,50	2,0%	1050,125	1051,279	1050,055	750.606,597	8.180.094,725	1049,985	-2,0%	3,50	1049,875	-2,0%	5,50
45+0.000	4,00	2,0%	1051,133	3,50	2,0%	1050,620	1051,053	1050,550	750.618,793	8.180.078,874	1050,480	-2,0%	3,50	1050,370	-2,0%	5,50
45+17.903	4,00	2,0%	1050,931	3,50	2,0%	1050,816	1050,851	1050,746	750.629,710	8.180.064,684	1050,676	-2,0%	3,50	1050,566	-2,0%	5,50



Notas-de-Serviço de Pavimentação

Alinhamento: Interseção 02

Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
0+0.000				4,00	2,0%	1005,992	1006,740	1005,912	775.288,119	8.185.637,411	1005,832	-2,0%	4,00			
0+5.000				4,00	2,0%	1005,883	1006,715	1005,803	775.287,778	8.185.642,392	1005,723	-2,0%	4,00			
0+10.000				4,00	2,0%	1005,602	1006,689	1005,522	775.286,491	8.185.647,215	1005,442	-2,0%	4,00			
0+15.000				4,00	2,0%	1005,619	1006,664	1005,539	775.284,305	8.185.651,704	1005,459	-2,0%	4,00			
1+0.000				4,00	2,0%	1005,573	1006,639	1005,493	775.281,303	8.185.655,692	1005,413	-2,0%	4,00			
1+5.000				4,00	2,0%	1005,564	1006,614	1005,484	775.277,593	8.185.659,033	1005,404	-2,0%	4,00			
1+10.000				4,00	2,0%	1005,558	1006,588	1005,478	775.273,313	8.185.661,603	1005,398	-2,0%	4,00			
1+15.000				4,00	2,0%	1005,539	1006,563	1005,459	775.268,621	8.185.663,308	1005,379	-2,0%	4,00			
2+0.000				4,00	2,0%	1005,505	1006,538	1005,425	775.263,689	8.185.664,085	1005,345	-2,0%	4,00			
2+5.000				4,00	2,0%	1005,473	1006,513	1005,393	775.258,700	8.185.663,904	1005,313	-2,0%	4,00			
2+10.000				4,00	2,0%	1005,442	1006,487	1005,362	775.253,838	8.185.662,774	1005,282	-2,0%	4,00			
2+15.000				4,00	2,0%	1005,440	1006,462	1005,360	775.249,281	8.185.660,735	1005,280	-2,0%	4,00			
3+0.000				4,00	2,0%	1005,459	1006,441	1005,379	775.245,197	8.185.657,863	1005,299	-2,0%	4,00			
3+5.000				4,00	2,0%	1005,607	1006,427	1005,527	775.241,738	8.185.654,263	1005,447	-2,0%	4,00			
3+10.000				4,00	2,0%	1005,676	1006,418	1005,596	775.239,031	8.185.650,068	1005,516	-2,0%	4,00			
3+15.000									775.237,176	8.185.645,434						
4+0.000									775.236,240	8.185.640,530						
4+5.000				4,00	2,0%	1006,030	1006,431	1005,950	775.236,259	8.185.635,538	1005,870	-2,0%	4,00			
4+10.000				4,00	2,0%	1006,134	1006,448	1006,054	775.237,231	8.185.630,641	1005,974	-2,0%	4,00			
4+15.000				4,00	2,0%	1006,267	1006,471	1006,187	775.239,122	8.185.626,021	1006,107	-2,0%	4,00			
5+0.000				4,00	2,0%	1006,354	1006,496	1006,274	775.241,861	8.185.621,847	1006,194	-2,0%	4,00			
5+5.000				4,00	2,0%	1006,430	1006,522	1006,350	775.245,347	8.185.618,273	1006,270	-2,0%	4,00			
5+10.000				4,00	2,0%	1006,493	1006,547	1006,413	775.249,452	8.185.615,432	1006,333	-2,0%	4,00			
5+15.000				4,00	2,0%	1006,549	1006,572	1006,469	775.254,024	8.185.613,427	1006,389	-2,0%	4,00			
6+0.000				4,00	2,0%	1006,646	1006,597	1006,566	775.258,895	8.185.612,333	1006,486	-2,0%	4,00			
6+5.000				4,00	2,0%	1006,662	1006,622	1006,582	775.263,885	8.185.612,191	1006,502	-2,0%	4,00			
6+10.000				4,00	2,0%	1006,500	1006,647	1006,420	775.268,811	8.185.613,005	1006,340	-2,0%	4,00			
6+15.000				4,00	2,0%	1006,448	1006,672	1006,368	775.273,490	8.185.614,745	1006,288	-2,0%	4,00			
7+0.000				4,00	2,0%	1006,346	1006,697	1006,266	775.277,750	8.185.617,347	1006,186	-2,0%	4,00			
7+5.000				4,00	2,0%	1006,223	1006,722	1006,143	775.281,435	8.185.620,716	1006,063	-2,0%	4,00			



Notas-de-Serviço de Pavimentação

Alinhamento: **Interseção 03**

Estaca	Bordo Acostamento LE			Bordo Pista de Rolamento LE			Eixo				Bordo Pista de Rolamento LD			Bordo Acostamento LD		
	dist (m)	i (%)	cota pavim	dist (m)	i (%)	cota pavim	cota pavim	cota terreno	Coordenada X	Coordenada Y	cota pavim	i (%)	dist (m)	cota pavim	i (%)	dist (m)
	1			2			3				4			5		
0+0.000				4,00	2,0%	983,645	983,908	983,565	797.599,387	8.177.800,714	983,485	-2,0%	4,00			
0+5.000				4,00	2,0%	983,779	983,878	983,699	797.604,248	8.177.799,577	983,619	-2,0%	4,00			
0+10.000				4,00	2,0%	983,710	983,849	983,630	797.609,237	8.177.799,391	983,550	-2,0%	4,00			
0+15.000				4,00	2,0%	982,567	983,819	982,487	797.614,169	8.177.800,162	982,407	-2,0%	4,00			
1+0.000				4,00	2,0%	981,641	983,789	981,561	797.618,864	8.177.801,862	981,481	-2,0%	4,00			
1+5.000				4,00	2,0%	981,406	983,759	981,326	797.623,146	8.177.804,427	981,246	-2,0%	4,00			
1+10.000				4,00	2,0%	981,393	983,730	981,313	797.626,860	8.177.807,764	981,233	-2,0%	4,00			
1+15.000				4,00	2,0%	981,388	983,700	981,308	797.629,867	8.177.811,748	981,228	-2,0%	4,00			
2+0.000				4,00	2,0%	981,508	983,670	981,428	797.632,058	8.177.816,235	981,348	-2,0%	4,00			
2+5.000				4,00	2,0%	981,703	983,640	981,623	797.633,350	8.177.821,057	981,543	-2,0%	4,00			
2+10.000				4,00	2,0%	982,158	983,611	982,078	797.633,698	8.177.826,037	981,998	-2,0%	4,00			
2+15.000				4,00	2,0%	983,332	983,582	983,252	797.633,086	8.177.830,992	983,172	-2,0%	4,00			
3+0.000				4,00	2,0%	983,536	983,585	983,456	797.631,540	8.177.835,738	983,376	-2,0%	4,00			
3+5.000									797.629,114	8.177.840,102						
3+10.000									797.625,899	8.177.843,921						
3+15.000				5,00	2,0%	983,966	983,891	983,866	797.622,014	8.177.847,056	983,766	-2,0%	5,00			
4+0.000				6,00	2,0%	983,963	984,059	983,843	797.617,601	8.177.849,390	983,723	-2,0%	6,00			
4+5.000				4,00	2,0%	984,185	984,227	984,105	797.612,823	8.177.850,838	984,025	-2,0%	4,00			
4+10.000				4,00	2,0%	984,458	984,395	984,378	797.607,857	8.177.851,346	984,298	-2,0%	4,00			
4+15.000				4,00	2,0%	984,750	984,563	984,670	797.602,885	8.177.850,895	984,590	-2,0%	4,00			
5+0.000				4,00	2,0%	985,093	984,732	985,013	797.598,091	8.177.849,503	984,933	-2,0%	4,00			
5+5.000				4,00	2,0%	985,387	984,883	985,307	797.593,651	8.177.847,220	985,227	-2,0%	4,00			
5+10.000				4,00	2,0%	985,627	984,980	985,547	797.589,730	8.177.844,130	985,467	-2,0%	4,00			
5+15.000				4,00	2,0%	985,751	985,021	985,671	797.586,471	8.177.840,348	985,591	-2,0%	4,00			
6+0.000				4,00	2,0%	985,746	985,005	985,666	797.583,995	8.177.836,013	985,586	-2,0%	4,00			
6+5.000				4,00	2,0%	985,556	984,933	985,476	797.582,394	8.177.831,284	985,396	-2,0%	4,00			
6+10.000				4,00	2,0%	985,076	984,804	984,996	797.581,726	8.177.826,337	984,916	-2,0%	4,00			
6+15.000				4,00	2,0%	984,848	984,635	984,768	797.582,015	8.177.821,353	984,688	-2,0%	4,00			
7+0.000				4,00	2,0%	984,793	984,464	984,713	797.583,252	8.177.816,516	984,633	-2,0%	4,00			
7+5.000				4,00	2,0%	984,702	984,293	984,622	797.585,390	8.177.812,005	984,542	-2,0%	4,00			
7+10.000				4,00	2,0%	984,522	984,122	984,442	797.588,352	8.177.807,986	984,362	-2,0%	4,00			

