



GOVERNO DO ESTADO DE MATO GROSSO
SECRETARIA DE ESTADO DE INFRAESTRUTURA E LOGÍSTICA
SUPERINTÊNCIA DE PROJETOS DE OBRAS RODOVIÁRIAS

PROJETO EXECUTIVO DE IMPLANTAÇÃO E PAVIMENTAÇÃO

Rodovia: MT-351
Trecho: Entr. MT-451 - Entr. MT-452(B)
Subtrecho: Fazenda Tanque Fundo – Entr. MT-452(B)
Extensão: 14,81 km
Município: Nossa Senhora do Livramento
Código SRE: 351EEMT0030(parcial) e 351EEMT0035

VOLUME 3C– NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES

FEVEREIRO/2026

JONNY
WILLIAN JESUS
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SUPERVISAO: Secretaria Adjunta de Obras Rodoviárias
COORDENAÇÃO: Superintendência de Projetos de Obras Rodoviárias
DIREÇÃO: Coordenadoria de Análise e Aprovação de Projetos
CONTRATANTE: Grupo de Fazendas
ELABORAÇÃO: Trajetos Engenharia
RESP. TÉCNICOS: Engº Civil Jonny Willian J. Rocha RN 120823434-0
Engº Civil Dhayana Lidia Melo Delmiro

FEVEREIRO/2026



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1. APRESENTAÇÃO



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A empresa Trajetos Engenharia apresenta o Volume 3C – Cálculo de volumes e nota de serviço de terraplenagem, referente ao Projeto Executivo de Implantação e Pavimentação da MT-351; Trecho: Entr. MT-451 - Entr. MT-452(B), Sub Trecho: Fazenda Tanque Fundo - Entr. MT-452(B), com extensão de 14,81 km.

Neste volume são apresentadas as notas de serviço de terraplenagem e o cálculo de volumes, necessários a execução da obra.

O projeto ao qual pertence este volume é constituído por 7 (sete) volumes descritos a seguir:

- Volume 1 – Relatório do Projeto;
- Volume 2 – Projeto de Execução;
- Volume 3 – Memória Justificativa;
- Volume Anexo 3A – Estudos Geotécnicos;
- Volume Anexo 3C – Notas de Serviço e Cálculo de Volumes;
- Volume Anexo 3E – Relatório Final de Avaliação Ambiental (RFAA);
- Volume 4 – Orçamento das Obras.

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2. MAPA DE SITUAÇÃO

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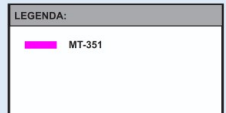


MAPA DE SITUAÇÃO



COORDENADAS:
 MT-351
 Est. 0 Est. 740+13,031
 576.735,730 E 574.268,903 E
 8.245.066,430 N 8.231.493,677 N

* Sistema de coordenadas UTM
 * Sistema de referência SIRGAS 2000



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3. CÁLCULO DE VOLUMES

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Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume Aterro (m ³)	Vol. Acum. Corte (m ³)	Vol. Acum. Aterro (m ³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
0+0,000	0,00	5,92	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0+9,638	4,82	6,35	59,14	0,00	0,00	59,14	0,00	0,00	0,00	0,00	0,00	0,00
0+10,000	0,18	6,37	2,29	0,00	0,00	61,43	0,00	0,00	0,00	0,00	0,00	0,00
1+0,000	5,00	6,82	65,95	0,00	0,00	127,38	0,00	0,00	0,00	0,00	0,00	0,00
1+10,000	5,00	7,52	71,70	0,00	0,00	199,08	0,00	0,00	0,00	0,00	0,00	0,00
2+0,000	5,00	8,15	78,35	0,00	0,00	277,43	0,00	0,00	0,00	0,00	0,00	0,00
2+10,000	5,00	9,04	85,95	0,00	0,00	363,38	0,00	0,00	0,00	0,00	0,00	0,00
3+0,000	5,00	9,53	92,85	0,00	0,00	456,23	0,00	0,00	0,00	0,00	0,00	0,00
3+10,000	5,00	11,40	104,65	0,00	0,00	560,88	0,00	0,00	0,00	0,00	0,00	0,00
4+0,000	5,00	12,94	121,70	0,00	0,00	682,58	0,00	0,00	0,00	0,00	0,00	0,00
4+10,000	5,00	14,58	137,60	0,00	0,00	820,18	0,00	0,00	0,00	0,00	0,00	0,00
5+0,000	5,00	16,32	154,50	0,00	0,00	974,68	0,00	0,00	0,00	0,00	0,00	0,00
5+10,000	5,00	14,94	156,30	0,00	0,00	1.130,98	0,00	0,00	0,00	0,00	0,00	0,00
5+19,638	4,82	13,66	137,85	0,00	0,00	1.268,83	0,00	0,00	0,00	0,00	0,00	0,00
6+0,000	0,18	13,61	4,91	0,00	0,00	1.273,74	0,00	0,00	0,00	0,00	0,00	0,00
6+9,945	4,97	11,84	126,49	0,00	0,00	1.400,23	0,00	0,00	0,00	0,00	0,00	0,00
6+10,000	0,03	11,83	0,71	0,00	0,00	1.400,94	0,00	0,00	0,00	0,00	0,00	0,00
7+0,000	5,00	9,48	106,55	0,00	0,00	1.507,49	0,00	0,00	0,00	0,00	0,00	0,00
7+0,251	0,13	9,35	2,45	0,00	0,00	1.509,94	0,00	0,00	0,00	0,00	0,00	0,00
7+10,000	4,87	4,61	67,99	0,00	0,00	1.577,92	0,00	0,00	0,00	0,00	0,00	0,00
8+0,000	5,00	0,80	27,05	0,57	2,85	1.604,97	2,85	0,57	2,85	2,85	0,00	0,00
8+10,000	5,00	0,00	4,00	3,75	21,60	1.608,97	24,45	3,75	21,60	24,45	0,00	0,00
9+0,000	5,00	0,00	0,00	7,92	58,35	1.608,97	82,80	7,92	58,35	82,80	0,00	0,00
9+10,000	5,00	0,00	0,00	11,93	99,25	1.608,97	182,05	8,256	80,88	163,68	18,37	18,37
10+0,000	5,00	0,00	0,00	16,24	140,85	1.608,97	322,90	8,256	82,56	246,24	58,29	76,66
10+10,000	5,00	0,00	0,00	18,10	171,70	1.608,97	494,60	8,256	82,56	328,80	89,14	165,80
11+0,000	5,00	0,00	0,00	20,42	192,60	1.608,97	687,20	8,256	82,56	411,36	110,04	275,84
11+10,000	5,00	0,00	0,00	22,09	212,55	1.608,97	899,75	8,256	82,56	493,92	129,99	405,83
12+0,000	5,00	0,00	0,00	23,50	227,95	1.608,97	1.127,70	8,256	82,56	576,48	145,39	551,22
12+10,000	5,00	0,00	0,00	24,29	238,95	1.608,97	1.366,65	8,256	82,56	659,04	156,39	707,61

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Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
12+10,251	0,13	0,00	0,00	24,31	6,32	1.608,97	1.372,97	8,256	2,15	661,19	4,17	711,78
13+0,000	4,87	0,00	0,00	24,90	239,65	1.608,97	1.612,62	8,256	80,41	741,60	159,24	871,02
14+0,000	10,00	0,00	0,00	21,75	466,50	1.608,97	2.079,12	8,256	165,12	906,72	301,38	1.172,40
15+0,000	10,00	0,00	0,00	26,20	479,50	1.608,97	2.558,62	8,256	165,12	1.071,84	314,38	1.486,78
16+0,000	10,00	0,00	0,00	25,32	515,20	1.608,97	3.073,82	8,256	165,12	1.236,96	350,08	1.836,86
17+0,000	10,00	0,00	0,00	25,35	506,70	1.608,97	3.580,52	8,256	165,12	1.402,08	341,58	2.178,44
18+0,000	10,00	0,00	0,00	25,14	504,90	1.608,97	4.085,42	8,256	165,12	1.567,20	339,78	2.518,22
19+0,000	10,00	0,00	0,00	24,71	498,50	1.608,97	4.583,92	8,256	165,12	1.732,32	333,38	2.851,60
20+0,000	10,00	0,00	0,00	21,93	466,40	1.608,97	5.050,32	8,256	165,12	1.897,44	301,28	3.152,88
21+0,000	10,00	0,00	0,00	21,53	434,60	1.608,97	5.484,92	8,256	165,12	2.062,56	269,48	3.422,36
22+0,000	10,00	0,00	0,00	19,89	414,20	1.608,97	5.899,12	8,256	165,12	2.227,68	249,08	3.671,44
23+0,000	10,00	0,00	0,00	19,54	394,30	1.608,97	6.293,42	8,256	165,12	2.392,80	229,18	3.900,62
24+0,000	10,00	0,00	0,00	19,59	391,30	1.608,97	6.684,72	8,256	165,12	2.557,92	226,18	4.126,80
25+0,000	10,00	0,00	0,00	19,70	392,90	1.608,97	7.077,62	8,256	165,12	2.723,04	227,78	4.354,58
26+0,000	10,00	0,00	0,00	19,09	387,90	1.608,97	7.465,52	8,256	165,12	2.888,16	222,78	4.577,36
27+0,000	10,00	0,00	0,00	19,63	387,20	1.608,97	7.852,72	8,256	165,12	3.053,28	222,08	4.799,44
28+0,000	10,00	0,00	0,00	17,89	375,20	1.608,97	8.227,92	8,256	165,12	3.218,40	210,08	5.009,52
29+0,000	10,00	0,00	0,00	16,83	347,20	1.608,97	8.575,12	8,256	165,12	3.383,52	182,08	5.191,60
30+0,000	10,00	0,00	0,00	17,26	340,90	1.608,97	8.916,02	8,256	165,12	3.548,64	175,78	5.367,38
31+0,000	10,00	0,00	0,00	19,52	367,80	1.608,97	9.283,82	8,256	165,12	3.713,76	202,68	5.570,06
32+0,000	10,00	0,00	0,00	21,14	406,60	1.608,97	9.690,42	8,256	165,12	3.878,88	241,48	5.811,54
33+0,000	10,00	0,00	0,00	21,86	430,00	1.608,97	10.120,42	8,256	165,12	4.044,00	264,88	6.076,42
34+0,000	10,00	0,00	0,00	22,91	447,70	1.608,97	10.568,12	8,256	165,12	4.209,12	282,58	6.359,00
35+0,000	10,00	0,00	0,00	22,66	455,70	1.608,97	11.023,82	8,256	165,12	4.374,24	290,58	6.649,58
36+0,000	10,00	0,00	0,00	20,35	430,10	1.608,97	11.453,92	8,256	165,12	4.539,36	264,98	6.914,56
37+0,000	10,00	0,00	0,00	20,59	409,40	1.608,97	11.863,32	8,256	165,12	4.704,48	244,28	7.158,84
38+0,000	10,00	0,00	0,00	23,22	438,10	1.608,97	12.301,42	8,256	165,12	4.869,60	272,98	7.431,82
39+0,000	10,00	0,00	0,00	24,79	480,10	1.608,97	12.781,52	8,256	165,12	5.034,72	314,98	7.746,80
40+0,000	10,00	0,00	0,00	24,04	488,30	1.608,97	13.269,82	8,256	165,12	5.199,84	323,18	8.069,98
41+0,000	10,00	0,00	0,00	24,70	487,40	1.608,97	13.757,22	8,256	165,12	5.364,96	322,28	8.392,26

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Cálculo de Volumes

Estaca	Semi Dis- tância (m)	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume Aterro (m ³)	Vol. Acum. Corte (m ³)	Vol. Acum. Aterro (m ³)	Área 100% intermediário	Volume Inter- mediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
42+0,000	10,00	0,00	0,00	25,88	505,80	1.608,97	14.263,02	8,256	165,12	5.530,08	340,68	8.732,94
43+0,000	10,00	0,00	0,00	23,67	495,50	1.608,97	14.758,52	8,256	165,12	5.695,20	330,38	9.063,32
44+0,000	10,00	0,00	0,00	22,64	463,10	1.608,97	15.221,62	8,256	165,12	5.860,32	297,98	9.361,30
45+0,000	10,00	0,00	0,00	21,09	437,30	1.608,97	15.658,92	8,256	165,12	6.025,44	272,18	9.633,48
46+0,000	10,00	0,00	0,00	17,30	383,90	1.608,97	16.042,82	8,256	165,12	6.190,56	218,78	9.852,26
47+0,000	10,00	0,00	0,00	13,24	305,40	1.608,97	16.348,22	8,256	165,12	6.355,68	140,28	9.992,54
48+0,000	10,00	0,00	0,00	9,60	228,40	1.608,97	16.576,62	8,256	165,12	6.520,80	63,28	10.055,82
49+0,000	10,00	0,00	0,00	7,53	171,30	1.608,97	16.747,92	7,53	157,86	6.678,66	13,44	10.069,26
50+0,000	10,00	1,25	12,50	4,59	121,20	1.621,47	16.869,12	4,59	121,20	6.799,86	0,00	10.069,26
51+0,000	10,00	1,05	23,00	1,34	59,30	1.644,47	16.928,42	1,34	59,30	6.859,16	0,00	10.069,26
52+0,000	10,00	1,22	22,70	2,03	33,70	1.667,17	16.962,12	2,03	33,70	6.892,86	0,00	10.069,26
53+0,000	10,00	0,60	18,20	1,95	39,80	1.685,37	17.001,92	1,95	39,80	6.932,66	0,00	10.069,26
54+0,000	10,00	0,61	12,10	2,21	41,60	1.697,47	17.043,52	2,21	41,60	6.974,26	0,00	10.069,26
55+0,000	10,00	0,86	14,70	1,51	37,20	1.712,17	17.080,72	1,51	37,20	7.011,46	0,00	10.069,26
56+0,000	10,00	1,27	21,30	1,57	30,80	1.733,47	17.111,52	1,57	30,80	7.042,26	0,00	10.069,26
57+0,000	10,00	1,44	27,10	1,32	28,90	1.760,57	17.140,42	1,32	28,90	7.071,16	0,00	10.069,26
58+0,000	10,00	0,00	14,40	15,65	169,70	1.774,97	17.310,12	8,256	95,76	7.166,92	73,94	10.143,20
59+0,000	10,00	1,77	17,70	1,46	171,10	1.792,67	17.481,22	1,46	97,16	7.264,08	73,94	10.217,14
60+0,000	10,00	1,54	33,10	1,34	28,00	1.825,77	17.509,22	1,34	28,00	7.292,08	0,00	10.217,14
61+0,000	10,00	1,44	29,80	1,39	27,30	1.855,57	17.536,52	1,39	27,30	7.319,38	0,00	10.217,14
62+0,000	10,00	2,99	44,30	0,09	14,80	1.899,87	17.551,32	0,09	14,80	7.334,18	0,00	10.217,14
63+0,000	10,00	1,72	47,10	0,97	10,60	1.946,97	17.561,92	0,97	10,60	7.344,78	0,00	10.217,14
64+0,000	10,00	1,55	32,70	0,83	18,00	1.979,67	17.579,92	0,83	18,00	7.362,78	0,00	10.217,14
65+0,000	10,00	0,63	21,80	0,45	12,80	2.001,47	17.592,72	0,45	12,80	7.375,58	0,00	10.217,14
65+14,119	7,06	2,45	21,74	0,50	6,71	2.023,22	17.599,43	0,50	6,71	7.382,29	0,00	10.217,14
66+0,000	2,94	3,69	18,05	0,42	2,70	2.041,27	17.602,13	0,42	2,70	7.384,99	0,00	10.217,14
66+10,000	5,00	2,26	29,75	0,62	5,20	2.071,02	17.607,33	0,62	5,20	7.390,19	0,00	10.217,14
67+0,000	5,00	1,08	16,70	0,82	7,20	2.087,72	17.614,53	0,82	7,20	7.397,39	0,00	10.217,14
67+10,000	5,00	1,03	10,55	0,89	8,55	2.098,27	17.623,08	0,89	8,55	7.405,94	0,00	10.217,14
68+0,000	5,00	1,00	10,15	0,93	9,10	2.108,42	17.632,18	0,93	9,10	7.415,04	0,00	10.217,14

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Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
68+10,000	5,00	1,25	11,25	1,21	10,70	2.119,67	17.642,88	1,21	10,70	7.425,74	0,00	10.217,14
69+0,000	5,00	1,50	13,75	1,56	13,85	2.133,42	17.656,73	1,56	13,85	7.439,59	0,00	10.217,14
69+10,000	5,00	1,22	13,60	1,38	14,70	2.147,02	17.671,43	1,38	14,70	7.454,29	0,00	10.217,14
70+0,000	5,00	0,75	9,85	1,21	12,95	2.156,87	17.684,38	1,21	12,95	7.467,24	0,00	10.217,14
70+10,000	5,00	1,03	8,90	1,21	12,10	2.165,77	17.696,48	1,21	12,10	7.479,34	0,00	10.217,14
71+0,000	5,00	1,22	11,25	1,18	11,95	2.177,02	17.708,43	1,18	11,95	7.491,29	0,00	10.217,14
71+10,000	5,00	1,45	13,35	1,29	12,35	2.190,37	17.720,78	1,29	12,35	7.503,64	0,00	10.217,14
72+0,000	5,00	1,65	15,50	1,25	12,70	2.205,87	17.733,48	1,25	12,70	7.516,34	0,00	10.217,14
72+10,000	5,00	4,27	29,60	0,45	8,50	2.235,47	17.741,98	0,45	8,50	7.524,84	0,00	10.217,14
73+0,000	5,00	5,45	48,60	0,43	4,40	2.284,07	17.746,38	0,43	4,40	7.529,24	0,00	10.217,14
73+10,000	5,00	3,67	45,60	0,53	4,80	2.329,67	17.751,18	0,53	4,80	7.534,04	0,00	10.217,14
73+14,119	2,06	2,71	13,14	0,59	2,31	2.342,81	17.753,49	0,59	2,31	7.536,35	0,00	10.217,14
74+0,000	2,94	1,92	13,61	1,31	5,59	2.356,42	17.759,08	1,31	5,59	7.541,94	0,00	10.217,14
74+10,000	5,00	2,04	19,80	1,34	13,25	2.376,22	17.772,33	1,34	13,25	7.555,19	0,00	10.217,14
75+0,000	5,00	2,12	20,80	1,36	13,50	2.397,02	17.785,83	1,36	13,50	7.568,69	0,00	10.217,14
75+10,000	5,00	2,09	21,05	1,46	14,10	2.418,07	17.799,93	1,46	14,10	7.582,79	0,00	10.217,14
76+0,000	5,00	1,87	19,80	1,54	15,00	2.437,87	17.814,93	1,54	15,00	7.597,79	0,00	10.217,14
76+10,000	5,00	1,64	17,55	1,59	15,65	2.455,42	17.830,58	1,59	15,65	7.613,44	0,00	10.217,14
77+0,000	5,00	1,42	15,30	1,61	16,00	2.470,72	17.846,58	1,61	16,00	7.629,44	0,00	10.217,14
77+10,000	5,00	1,45	14,35	1,64	16,25	2.485,07	17.862,83	1,64	16,25	7.645,69	0,00	10.217,14
78+0,000	5,00	1,55	15,00	1,73	16,85	2.500,07	17.879,68	1,73	16,85	7.662,54	0,00	10.217,14
78+1,204	0,60	1,52	1,84	1,72	2,07	2.501,91	17.881,75	1,72	2,07	7.664,61	0,00	10.217,14
78+10,000	4,40	1,38	12,76	1,72	15,14	2.514,67	17.896,88	1,72	15,14	7.679,74	0,00	10.217,14
79+0,000	5,00	1,33	13,55	1,72	17,20	2.528,22	17.914,08	1,72	17,20	7.696,94	0,00	10.217,14
79+10,000	5,00	1,65	14,90	1,82	17,70	2.543,12	17.931,78	1,82	17,70	7.714,64	0,00	10.217,14
80+0,000	5,00	1,66	16,55	1,94	18,80	2.559,67	17.950,58	1,94	18,80	7.733,44	0,00	10.217,14
80+10,000	5,00	1,82	17,40	1,98	19,60	2.577,07	17.970,18	1,98	19,60	7.753,04	0,00	10.217,14
81+0,000	5,00	2,03	19,25	2,03	20,05	2.596,32	17.990,23	2,03	20,05	7.773,09	0,00	10.217,14
81+10,000	5,00	1,45	17,40	2,22	21,25	2.613,72	18.011,48	2,22	21,25	7.794,34	0,00	10.217,14
82+0,000	5,00	0,78	11,15	2,43	23,25	2.624,87	18.034,73	2,43	23,25	7.817,59	0,00	10.217,14

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
82+8,289	4,14	0,92	7,04	2,66	21,07	2.631,91	18.055,80	2,66	21,07	7.838,66	0,00	10.217,14
82+10,000	0,86	0,93	1,59	2,72	4,63	2.633,50	18.060,43	2,72	4,63	7.843,29	0,00	10.217,14
83+0,000	5,00	0,86	8,95	3,23	29,75	2.642,45	18.090,18	3,23	29,75	7.873,04	0,00	10.217,14
83+10,000	5,00	0,72	7,90	3,39	33,10	2.650,35	18.123,28	3,39	33,10	7.906,14	0,00	10.217,14
84+0,000	5,00	0,43	5,75	3,46	34,25	2.656,10	18.157,53	3,46	34,25	7.940,39	0,00	10.217,14
84+10,000	5,00	0,45	4,40	3,37	34,15	2.660,50	18.191,68	3,37	34,15	7.974,54	0,00	10.217,14
85+0,000	5,00	0,46	4,55	3,52	34,45	2.665,05	18.226,13	3,52	34,45	8.008,99	0,00	10.217,14
85+10,000	5,00	0,30	3,80	3,59	35,55	2.668,85	18.261,68	3,59	35,55	8.044,54	0,00	10.217,14
86+0,000	5,00	0,11	2,05	3,77	36,80	2.670,90	18.298,48	3,77	36,80	8.081,34	0,00	10.217,14
86+10,000	5,00	0,10	1,05	3,76	37,65	2.671,95	18.336,13	3,76	37,65	8.118,99	0,00	10.217,14
87+0,000	5,00	0,09	0,95	3,75	37,55	2.672,90	18.373,68	3,75	37,55	8.156,54	0,00	10.217,14
87+10,000	5,00	0,04	0,65	3,81	37,80	2.673,55	18.411,48	3,81	37,80	8.194,34	0,00	10.217,14
88+0,000	5,00	0,00	0,20	3,86	38,35	2.673,75	18.449,83	3,86	38,35	8.232,69	0,00	10.217,14
88+10,000	5,00	0,68	3,40	1,68	27,70	2.677,15	18.477,53	1,68	27,70	8.260,39	0,00	10.217,14
89+0,000	5,00	0,04	3,60	3,02	23,50	2.680,75	18.501,03	3,02	23,50	8.283,89	0,00	10.217,14
89+10,000	5,00	0,16	1,00	2,64	28,30	2.681,75	18.529,33	2,64	28,30	8.312,19	0,00	10.217,14
90+0,000	5,00	0,26	2,10	2,32	24,80	2.683,85	18.554,13	2,32	24,80	8.336,99	0,00	10.217,14
90+8,289	4,14	0,33	2,44	1,95	17,68	2.686,30	18.571,81	1,95	17,68	8.354,67	0,00	10.217,14
91+0,000	5,86	0,37	4,10	1,54	20,45	2.690,40	18.592,26	1,54	20,45	8.375,12	0,00	10.217,14
92+0,000	10,00	0,23	6,00	1,32	28,60	2.696,40	18.620,86	1,32	28,60	8.403,72	0,00	10.217,14
93+0,000	10,00	0,07	3,00	2,19	35,10	2.699,40	18.655,96	2,19	35,10	8.438,82	0,00	10.217,14
94+0,000	10,00	0,02	0,90	4,01	62,00	2.700,30	18.717,96	4,01	62,00	8.500,82	0,00	10.217,14
95+0,000	10,00	0,00	0,20	4,71	87,20	2.700,50	18.805,16	4,71	87,20	8.588,02	0,00	10.217,14
96+0,000	10,00	0,00	0,00	2,91	76,20	2.700,50	18.881,36	2,91	76,20	8.664,22	0,00	10.217,14
97+0,000	10,00	0,06	0,60	3,03	59,40	2.701,10	18.940,76	3,03	59,40	8.723,62	0,00	10.217,14
98+0,000	10,00	0,00	0,60	3,48	65,10	2.701,70	19.005,86	3,48	65,10	8.788,72	0,00	10.217,14
99+0,000	10,00	0,14	1,40	2,76	62,40	2.703,10	19.068,26	2,76	62,40	8.851,12	0,00	10.217,14
100+0,000	10,00	0,62	7,60	2,49	52,50	2.710,70	19.120,76	2,49	52,50	8.903,62	0,00	10.217,14
101+0,000	10,00	0,35	9,70	2,44	49,30	2.720,40	19.170,06	2,44	49,30	8.952,92	0,00	10.217,14
102+0,000	10,00	0,71	10,60	1,96	44,00	2.731,00	19.214,06	1,96	44,00	8.996,92	0,00	10.217,14

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Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
103+0,000	10,00	0,57	12,80	2,22	41,80	2.743,80	19.255,86	2,22	41,80	9.038,72	0,00	10.217,14
104+0,000	10,00	0,63	12,00	2,12	43,40	2.755,80	19.299,26	2,12	43,40	9.082,12	0,00	10.217,14
105+0,000	10,00	1,01	16,40	1,73	38,50	2.772,20	19.337,76	1,73	38,50	9.120,62	0,00	10.217,14
106+0,000	10,00	0,89	19,00	1,68	34,10	2.791,20	19.371,86	1,68	34,10	9.154,72	0,00	10.217,14
107+0,000	10,00	1,68	25,70	0,90	25,80	2.816,90	19.397,66	0,90	25,80	9.180,52	0,00	10.217,14
108+0,000	10,00	1,46	31,40	0,59	14,90	2.848,30	19.412,56	0,59	14,90	9.195,42	0,00	10.217,14
109+0,000	10,00	1,87	33,30	0,21	8,00	2.881,60	19.420,56	0,21	8,00	9.203,42	0,00	10.217,14
110+0,000	10,00	2,64	45,10	0,00	2,10	2.926,70	19.422,66	0,00	2,10	9.205,52	0,00	10.217,14
111+0,000	10,00	3,42	60,60	0,00	0,00	2.987,30	19.422,66	0,00	0,00	9.205,52	0,00	10.217,14
112+0,000	10,00	1,44	48,60	0,00	0,00	3.035,90	19.422,66	0,00	0,00	9.205,52	0,00	10.217,14
112+15,221	7,61	3,14	34,85	0,00	0,00	3.070,75	19.422,66	0,00	0,00	9.205,52	0,00	10.217,14
113+0,000	2,39	3,64	16,20	0,00	0,00	3.086,96	19.422,66	0,00	0,00	9.205,52	0,00	10.217,14
113+10,000	5,00	3,77	37,05	0,00	0,00	3.124,01	19.422,66	0,00	0,00	9.205,52	0,00	10.217,14
114+0,000	5,00	3,75	37,60	0,00	0,00	3.161,61	19.422,66	0,00	0,00	9.205,52	0,00	10.217,14
114+10,000	5,00	3,85	38,00	0,00	0,00	3.199,61	19.422,66	0,00	0,00	9.205,52	0,00	10.217,14
115+0,000	5,00	3,86	38,55	0,00	0,00	3.238,16	19.422,66	0,00	0,00	9.205,52	0,00	10.217,14
115+10,000	5,00	3,13	34,95	0,23	1,15	3.273,11	19.423,81	0,23	1,15	9.206,67	0,00	10.217,14
116+0,000	5,00	2,47	28,00	0,35	2,90	3.301,11	19.426,71	0,35	2,90	9.209,57	0,00	10.217,14
116+10,000	5,00	1,94	22,05	0,14	2,45	3.323,16	19.429,16	0,14	2,45	9.212,02	0,00	10.217,14
117+0,000	5,00	1,15	15,45	0,26	2,00	3.338,61	19.431,16	0,26	2,00	9.214,02	0,00	10.217,14
117+10,000	5,00	0,52	8,35	0,19	2,25	3.346,96	19.433,41	0,19	2,25	9.216,27	0,00	10.217,14
117+15,221	2,61	0,32	2,19	0,34	1,38	3.349,15	19.434,79	0,34	1,38	9.217,65	0,00	10.217,14
118+0,000	2,39	0,23	1,31	0,69	2,46	3.350,46	19.437,26	0,69	2,46	9.220,11	0,00	10.217,14
118+10,000	5,00	0,04	1,35	1,86	12,75	3.351,81	19.450,01	1,86	12,75	9.232,86	0,00	10.217,14
119+0,000	5,00	0,00	0,20	2,88	23,70	3.352,01	19.473,71	2,88	23,70	9.256,56	0,00	10.217,14
119+10,000	5,00	0,05	0,25	1,65	22,65	3.352,26	19.496,36	1,65	22,65	9.279,21	0,00	10.217,14
120+0,000	5,00	1,40	7,25	1,11	13,80	3.359,51	19.510,16	1,11	13,80	9.293,01	0,00	10.217,14
120+1,959	0,98	1,50	2,84	1,03	2,10	3.362,36	19.512,25	1,03	2,10	9.295,11	0,00	10.217,14
120+10,000	4,02	2,05	14,27	0,91	7,80	3.376,63	19.520,05	0,91	7,80	9.302,91	0,00	10.217,14
121+0,000	5,00	3,33	26,90	1,30	11,05	3.403,53	19.531,10	1,30	11,05	9.313,96	0,00	10.217,14

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Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Inter-mediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
121+10,000	5,00	2,50	29,15	1,52	14,10	3.432,68	19.545,20	1,52	14,10	9.328,06	0,00	10.217,14
122+0,000	5,00	1,62	20,60	2,06	17,90	3.453,28	19.563,10	2,06	17,90	9.345,96	0,00	10.217,14
122+8,698	4,35	1,59	13,96	2,20	18,53	3.467,24	19.581,63	2,20	18,53	9.364,49	0,00	10.217,14
122+10,000	0,65	1,60	2,07	2,20	2,86	3.469,31	19.584,49	2,20	2,86	9.367,35	0,00	10.217,14
123+0,000	5,00	1,57	15,85	2,13	21,65	3.485,16	19.606,14	2,13	21,65	9.389,00	0,00	10.217,14
123+10,000	5,00	2,91	22,40	1,02	15,75	3.507,56	19.621,89	1,02	15,75	9.404,75	0,00	10.217,14
124+0,000	5,00	4,29	36,00	0,17	5,95	3.543,56	19.627,84	0,17	5,95	9.410,70	0,00	10.217,14
124+10,000	5,00	4,31	43,00	0,03	1,00	3.586,56	19.628,84	0,03	1,00	9.411,70	0,00	10.217,14
125+0,000	5,00	4,16	42,35	0,05	0,40	3.628,91	19.629,24	0,05	0,40	9.412,10	0,00	10.217,14
125+10,000	5,00	2,09	31,25	0,20	1,25	3.660,16	19.630,49	0,20	1,25	9.413,35	0,00	10.217,14
126+0,000	5,00	0,24	11,65	1,07	6,35	3.671,81	19.636,84	1,07	6,35	9.419,70	0,00	10.217,14
126+10,000	5,00	0,47	3,55	0,75	9,10	3.675,36	19.645,94	0,75	9,10	9.428,80	0,00	10.217,14
127+0,000	5,00	0,75	6,10	0,30	5,25	3.681,46	19.651,19	0,30	5,25	9.434,05	0,00	10.217,14
127+8,698	4,35	0,49	5,39	0,72	4,44	3.686,86	19.655,63	0,72	4,44	9.438,49	0,00	10.217,14
128+0,000	5,65	0,44	5,25	1,66	13,45	3.692,11	19.669,08	1,66	13,45	9.451,94	0,00	10.217,14
129+0,000	10,00	0,37	8,10	2,37	40,30	3.700,21	19.709,38	2,37	40,30	9.492,24	0,00	10.217,14
130+0,000	10,00	0,16	5,30	1,63	40,00	3.705,51	19.749,38	1,63	40,00	9.532,24	0,00	10.217,14
131+0,000	10,00	0,22	3,80	3,13	47,60	3.709,31	19.796,98	3,13	47,60	9.579,84	0,00	10.217,14
132+0,000	10,00	0,00	2,20	3,35	64,80	3.711,51	19.861,78	3,35	64,80	9.644,64	0,00	10.217,14
133+0,000	10,00	0,00	0,00	3,48	68,30	3.711,51	19.930,08	3,48	68,30	9.712,94	0,00	10.217,14
134+0,000	10,00	0,03	0,30	3,34	68,20	3.711,81	19.998,28	3,34	68,20	9.781,14	0,00	10.217,14
135+0,000	10,00	0,06	0,90	4,15	74,90	3.712,71	20.073,18	4,15	74,90	9.856,04	0,00	10.217,14
136+0,000	10,00	0,06	1,20	3,57	77,20	3.713,91	20.150,38	3,57	77,20	9.933,24	0,00	10.217,14
137+0,000	10,00	0,02	0,80	2,47	60,40	3.714,71	20.210,78	2,47	60,40	9.993,64	0,00	10.217,14
138+0,000	10,00	0,46	4,80	2,05	45,20	3.719,51	20.255,98	2,05	45,20	10.038,84	0,00	10.217,14
139+0,000	10,00	0,36	8,20	0,69	27,40	3.727,71	20.283,38	0,69	27,40	10.066,24	0,00	10.217,14
140+0,000	10,00	0,93	12,90	0,74	14,30	3.740,61	20.297,68	0,74	14,30	10.080,54	0,00	10.217,14
141+0,000	10,00	2,11	30,40	0,37	11,10	3.771,01	20.308,78	0,37	11,10	10.091,64	0,00	10.217,14
142+0,000	10,00	2,34	44,50	0,02	3,90	3.815,51	20.312,68	0,02	3,90	10.095,54	0,00	10.217,14
143+0,000	10,00	4,04	63,80	0,00	0,20	3.879,31	20.312,88	0,00	0,20	10.095,74	0,00	10.217,14

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
144+0,000	10,00	3,40	74,40	0,00	0,00	3.953,71	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
145+0,000	10,00	5,87	92,70	0,00	0,00	4.046,41	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
146+0,000	10,00	7,19	130,60	0,00	0,00	4.177,01	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
147+0,000	10,00	8,90	160,90	0,00	0,00	4.337,91	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
148+0,000	10,00	8,11	170,10	0,00	0,00	4.508,01	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
149+0,000	10,00	9,60	177,10	0,00	0,00	4.685,11	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
150+0,000	10,00	10,28	198,80	0,00	0,00	4.883,91	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
151+0,000	10,00	11,05	213,30	0,00	0,00	5.097,21	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
152+0,000	10,00	11,59	226,40	0,00	0,00	5.323,61	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
153+0,000	10,00	12,86	244,50	0,00	0,00	5.568,11	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
154+0,000	10,00	11,27	241,30	0,00	0,00	5.809,41	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
155+0,000	10,00	13,17	244,40	0,00	0,00	6.053,81	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
156+0,000	10,00	14,51	276,80	0,00	0,00	6.330,61	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
157+0,000	10,00	15,15	296,60	0,00	0,00	6.627,21	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
158+0,000	10,00	14,53	296,80	0,00	0,00	6.924,01	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
159+0,000	10,00	14,70	292,30	0,00	0,00	7.216,31	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
160+0,000	10,00	12,52	272,20	0,00	0,00	7.488,51	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
161+0,000	10,00	11,38	239,00	0,00	0,00	7.727,51	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
162+0,000	10,00	11,83	232,10	0,00	0,00	7.959,61	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
163+0,000	10,00	12,43	242,60	0,00	0,00	8.202,21	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
164+0,000	10,00	12,97	254,00	0,00	0,00	8.456,21	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
165+0,000	10,00	16,85	298,20	0,00	0,00	8.754,41	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
166+0,000	10,00	17,84	346,90	0,00	0,00	9.101,31	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
167+0,000	10,00	18,12	359,60	0,00	0,00	9.460,91	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
168+0,000	10,00	15,64	337,60	0,00	0,00	9.798,51	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
169+0,000	10,00	7,69	233,30	0,00	0,00	10.031,81	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
170+0,000	10,00	5,50	131,90	0,00	0,00	10.163,71	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
170+1,653	0,83	5,33	8,99	0,00	0,00	10.172,70	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
170+10,000	4,17	4,64	41,57	0,00	0,00	10.214,28	20.312,88	0,00	0,00	10.095,74	0,00	10.217,14
171+0,000	5,00	4,77	47,05	0,11	0,55	10.261,33	20.313,43	0,11	0,55	10.096,29	0,00	10.217,14

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
171+10,000	5,00	4,07	44,20	0,15	1,30	10.305,53	20.314,73	0,15	1,30	10.097,59	0,00	10.217,14
172+0,000	5,00	3,49	37,80	0,19	1,70	10.343,33	20.316,43	0,19	1,70	10.099,29	0,00	10.217,14
172+10,000	5,00	1,08	22,85	0,62	4,05	10.366,18	20.320,48	0,62	4,05	10.103,34	0,00	10.217,14
173+0,000	5,00	1,06	10,70	1,39	10,05	10.376,88	20.330,53	1,39	10,05	10.113,39	0,00	10.217,14
173+10,000	5,00	1,33	11,95	1,28	13,35	10.388,83	20.343,88	1,28	13,35	10.126,74	0,00	10.217,14
174+0,000	5,00	1,66	14,95	1,46	13,70	10.403,78	20.357,58	1,46	13,70	10.140,44	0,00	10.217,14
174+10,000	5,00	1,60	16,30	2,80	21,30	10.420,08	20.378,88	2,80	21,30	10.161,74	0,00	10.217,14
175+0,000	5,00	1,06	13,30	4,29	35,45	10.433,38	20.414,33	4,29	35,45	10.197,19	0,00	10.217,14
175+10,000	5,00	0,30	6,80	6,12	52,05	10.440,18	20.466,38	6,12	52,05	10.249,24	0,00	10.217,14
175+13,047	1,52	0,11	0,62	6,73	19,53	10.440,80	20.485,91	6,73	19,53	10.268,77	0,00	10.217,14
176+0,000	3,48	0,00	0,38	8,61	53,38	10.441,18	20.539,29	8,256	52,15	10.320,92	1,23	10.218,37
176+10,000	5,00	0,00	0,00	11,02	98,15	10.441,18	20.637,44	8,256	82,56	10.403,48	15,59	10.233,96
177+0,000	5,00	0,00	0,00	13,79	124,05	10.441,18	20.761,49	8,256	82,56	10.486,04	41,49	10.275,45
177+10,000	5,00	0,00	0,00	15,64	147,15	10.441,18	20.908,64	8,256	82,56	10.568,60	64,59	10.340,04
178+0,000	5,00	0,00	0,00	17,25	164,45	10.441,18	21.073,09	8,256	82,56	10.651,16	81,89	10.421,93
178+10,000	5,00	0,00	0,00	19,69	184,70	10.441,18	21.257,79	8,256	82,56	10.733,72	102,14	10.524,07
179+0,000	5,00	0,00	0,00	22,72	212,05	10.441,18	21.469,84	8,256	82,56	10.816,28	129,49	10.653,56
179+10,000	5,00	0,00	0,00	27,13	249,25	10.441,18	21.719,09	8,256	82,56	10.898,84	166,69	10.820,25
180+0,000	5,00	0,00	0,00	32,10	296,15	10.441,18	22.015,24	8,256	82,56	10.981,40	213,59	11.033,84
180+10,000	5,00	0,00	0,00	33,67	328,85	10.441,18	22.344,09	8,256	82,56	11.063,96	246,29	11.280,13
181+0,000	5,00	0,00	0,00	34,46	340,65	10.441,18	22.684,74	8,256	82,56	11.146,52	258,09	11.538,22
181+4,442	2,22	0,00	0,00	32,14	147,85	10.441,18	22.832,59	8,256	36,66	11.183,18	111,20	11.649,42
182+0,000	7,78	0,00	0,00	25,61	449,30	10.441,18	23.281,89	8,256	128,46	11.311,64	320,83	11.970,25
183+0,000	10,00	0,00	0,00	26,67	522,80	10.441,18	23.804,69	8,256	165,12	11.476,76	357,68	12.327,93
184+0,000	10,00	0,00	0,00	21,88	485,50	10.441,18	24.290,19	8,256	165,12	11.641,88	320,38	12.648,31
185+0,000	10,00	0,00	0,00	23,40	452,80	10.441,18	24.742,99	8,256	165,12	11.807,00	287,68	12.935,99
185+7,367	3,68	0,00	0,00	25,18	178,77	10.441,18	24.921,76	8,256	60,76	11.867,76	118,01	13.054,00
185+10,000	1,32	0,00	0,00	25,86	67,37	10.441,18	24.989,14	8,256	21,80	11.889,56	45,58	13.099,58
186+0,000	5,00	0,00	0,00	28,85	273,55	10.441,18	25.262,69	8,256	82,56	11.972,12	190,99	13.290,57
186+10,000	5,00	0,00	0,00	26,86	278,55	10.441,18	25.541,24	8,256	82,56	12.054,68	195,99	13.486,56

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SINFRA P2026222144





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume Aterro (m ³)	Vol. Acum. Corte (m ³)	Vol. Acum. Aterro (m ³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
187+0,000	5,00	0,00	0,00	24,84	258,50	10.441,18	25.799,74	8,256	82,56	12.137,24	175,94	13.662,50
187+10,000	5,00	0,00	0,00	23,28	240,60	10.441,18	26.040,34	8,256	82,56	12.219,80	158,04	13.820,54
188+0,000	5,00	0,00	0,00	22,21	227,45	10.441,18	26.267,79	8,256	82,56	12.302,36	144,89	13.965,43
188+10,000	5,00	0,00	0,00	20,33	212,70	10.441,18	26.480,49	8,256	82,56	12.384,92	130,14	14.095,57
189+0,000	5,00	0,00	0,00	18,32	193,25	10.441,18	26.673,74	8,256	82,56	12.467,48	110,69	14.206,26
189+10,000	5,00	0,00	0,00	16,84	175,80	10.441,18	26.849,54	8,256	82,56	12.550,04	93,24	14.299,50
190+0,000	5,00	0,00	0,00	15,93	163,85	10.441,18	27.013,39	8,256	82,56	12.632,60	81,29	14.380,79
190+10,000	5,00	0,00	0,00	11,36	136,45	10.441,18	27.149,84	8,256	82,56	12.715,16	53,89	14.434,68
191+0,000	5,00	0,00	0,00	6,50	89,30	10.441,18	27.239,14	6,50	73,78	12.788,94	15,52	14.450,20
191+10,000	5,00	0,17	0,85	2,28	43,90	10.442,03	27.283,04	2,28	43,90	12.832,84	0,00	14.450,20
191+17,976	3,99	2,10	9,06	1,30	14,28	10.451,09	27.297,32	1,30	14,28	12.847,12	0,00	14.450,20
192+0,000	1,01	2,54	4,69	1,10	2,42	10.455,78	27.299,74	1,10	2,42	12.849,55	0,00	14.450,20
192+10,000	5,00	6,09	43,15	0,00	5,50	10.498,93	27.305,24	0,00	5,50	12.855,05	0,00	14.450,20
193+0,000	5,00	12,80	94,45	0,00	0,00	10.593,38	27.305,24	0,00	0,00	12.855,05	0,00	14.450,20
193+10,000	5,00	14,59	136,95	0,00	0,00	10.730,33	27.305,24	0,00	0,00	12.855,05	0,00	14.450,20
194+0,000	5,00	16,99	157,90	0,00	0,00	10.888,23	27.305,24	0,00	0,00	12.855,05	0,00	14.450,20
194+10,000	5,00	11,98	144,85	0,00	0,00	11.033,38	27.305,24	0,00	0,00	12.855,05	0,00	14.450,20
195+0,000	5,00	7,68	98,30	0,00	0,00	11.131,38	27.305,24	0,00	0,00	12.855,05	0,00	14.450,20
195+10,000	5,00	0,74	42,10	2,48	12,40	11.173,48	27.317,64	2,48	12,40	12.867,45	0,00	14.450,20
196+0,000	5,00	0,00	3,70	10,67	65,75	11.177,18	27.383,39	8,256	53,68	12.921,13	12,07	14.462,27
196+10,000	5,00	0,00	0,00	21,94	163,05	11.177,18	27.546,44	8,256	82,56	13.003,69	80,49	14.542,76
197+0,000	5,00	0,00	0,00	34,97	284,55	11.177,18	27.830,99	8,256	82,56	13.086,25	201,99	14.744,75
197+10,000	5,00	0,00	0,00	42,77	388,70	11.177,18	28.219,69	8,256	82,56	13.168,81	306,14	15.050,89
198+0,000	5,00	0,00	0,00	50,47	466,20	11.177,18	28.685,89	8,256	82,56	13.251,37	383,64	15.434,53
198+8,584	4,29	0,00	0,00	54,90	452,04	11.177,18	29.137,93	8,256	70,84	13.322,20	381,20	15.815,73
199+0,000	5,71	0,00	0,00	62,26	668,98	11.177,18	29.806,91	8,256	94,28	13.416,49	574,70	16.390,43
200+0,000	10,00	0,00	0,00	48,57	1.108,30	11.177,18	30.915,21	8,256	165,12	13.581,61	943,18	17.333,61
201+0,000	10,00	0,00	0,00	40,04	886,10	11.177,18	31.801,31	8,256	165,12	13.746,73	720,98	18.054,59
202+0,000	10,00	0,00	0,00	25,08	651,20	11.177,18	32.452,51	8,256	165,12	13.911,85	486,08	18.540,67
203+0,000	10,00	0,00	0,00	6,40	314,80	11.177,18	32.767,31	6,40	146,56	14.058,41	168,24	18.708,91

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
204+0,000	10,00	10,85	108,50	0,00	64,00	11.285,68	32.831,31	0,00	64,00	14.122,41	0,00	18.708,91
205+0,000	10,00	28,88	397,30	0,00	0,00	11.682,98	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
206+0,000	10,00	34,53	634,10	0,00	0,00	12.317,08	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
206+0,789	0,39	34,19	26,80	0,00	0,00	12.343,88	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
206+10,000	4,61	29,82	295,09	0,00	0,00	12.638,96	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
207+0,000	5,00	26,09	279,55	0,00	0,00	12.918,51	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
207+10,000	5,00	20,03	230,60	0,00	0,00	13.149,11	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
208+0,000	5,00	14,52	172,75	0,00	0,00	13.321,86	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
208+10,000	5,00	16,80	156,60	0,00	0,00	13.478,46	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
209+0,000	5,00	19,13	179,65	0,00	0,00	13.658,11	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
209+10,000	5,00	24,11	216,20	0,00	0,00	13.874,31	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
210+0,000	5,00	28,46	262,85	0,00	0,00	14.137,16	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
210+10,000	5,00	26,01	272,35	0,00	0,00	14.409,51	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
211+0,000	5,00	23,33	246,70	0,00	0,00	14.656,21	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
211+10,000	5,00	20,75	220,40	0,00	0,00	14.876,61	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
211+19,636	4,82	17,95	186,53	0,00	0,00	15.063,15	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
212+0,000	0,18	17,91	6,45	0,00	0,00	15.069,60	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
212+10,000	5,00	19,63	187,70	0,00	0,00	15.257,30	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
213+0,000	5,00	21,17	204,00	0,00	0,00	15.461,30	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
213+10,000	5,00	18,80	199,85	0,00	0,00	15.661,15	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
214+0,000	5,00	15,71	172,55	0,00	0,00	15.833,70	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
214+10,000	5,00	15,85	157,80	0,00	0,00	15.991,50	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
215+0,000	5,00	12,95	144,00	0,00	0,00	16.135,50	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
215+10,000	5,00	13,27	131,10	0,00	0,00	16.266,60	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
216+0,000	5,00	12,27	127,70	0,00	0,00	16.394,30	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
216+10,000	5,00	8,25	102,60	0,00	0,00	16.496,90	32.831,31	0,00	0,00	14.122,41	0,00	18.708,91
217+0,000	5,00	2,97	56,10	0,03	0,15	16.553,00	32.831,46	0,03	0,15	14.122,56	0,00	18.708,91
217+10,000	5,00	2,01	24,90	0,03	0,30	16.577,90	32.831,76	0,03	0,30	14.122,86	0,00	18.708,91
217+18,482	4,24	1,73	15,86	0,08	0,47	16.593,76	32.832,23	0,08	0,47	14.123,32	0,00	18.708,91
218+0,000	0,76	1,72	2,62	0,09	0,13	16.596,38	32.832,36	0,09	0,13	14.123,45	0,00	18.708,91

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
219+0,000	10,00	0,25	19,70	0,66	7,50	16.616,08	32.839,86	0,66	7,50	14.130,95	0,00	18.708,91
220+0,000	10,00	0,28	5,30	2,81	34,70	16.621,38	32.874,56	2,81	34,70	14.165,65	0,00	18.708,91
221+0,000	10,00	2,08	23,60	1,49	43,00	16.644,98	32.917,56	1,49	43,00	14.208,65	0,00	18.708,91
222+0,000	10,00	0,13	22,10	2,18	36,70	16.667,08	32.954,26	2,18	36,70	14.245,35	0,00	18.708,91
223+0,000	10,00	0,71	8,40	3,30	54,80	16.675,48	33.009,06	3,30	54,80	14.300,15	0,00	18.708,91
224+0,000	10,00	0,80	15,10	2,01	53,10	16.690,58	33.062,16	2,01	53,10	14.353,25	0,00	18.708,91
225+0,000	10,00	0,01	8,10	1,70	37,10	16.698,68	33.099,26	1,70	37,10	14.390,35	0,00	18.708,91
226+0,000	10,00	2,19	22,00	0,29	19,90	16.720,68	33.119,16	0,29	19,90	14.410,25	0,00	18.708,91
227+0,000	10,00	3,57	57,60	0,02	3,10	16.778,28	33.122,26	0,02	3,10	14.413,35	0,00	18.708,91
228+0,000	10,00	10,63	142,00	0,08	1,00	16.920,28	33.123,26	0,08	1,00	14.414,35	0,00	18.708,91
229+0,000	10,00	8,13	187,60	0,00	0,80	17.107,88	33.124,06	0,00	0,80	14.415,15	0,00	18.708,91
230+0,000	10,00	8,49	166,20	0,00	0,00	17.274,08	33.124,06	0,00	0,00	14.415,15	0,00	18.708,91
231+0,000	10,00	5,64	141,30	0,00	0,00	17.415,38	33.124,06	0,00	0,00	14.415,15	0,00	18.708,91
232+0,000	10,00	5,70	113,40	0,00	0,00	17.528,78	33.124,06	0,00	0,00	14.415,15	0,00	18.708,91
233+0,000	10,00	5,88	115,80	0,00	0,00	17.644,58	33.124,06	0,00	0,00	14.415,15	0,00	18.708,91
234+0,000	10,00	7,96	138,40	0,00	0,00	17.782,98	33.124,06	0,00	0,00	14.415,15	0,00	18.708,91
235+0,000	10,00	6,51	144,70	0,00	0,00	17.927,68	33.124,06	0,00	0,00	14.415,15	0,00	18.708,91
236+0,000	10,00	2,71	92,20	0,10	1,00	18.019,88	33.125,06	0,10	1,00	14.416,15	0,00	18.708,91
237+0,000	10,00	2,46	51,70	0,02	1,20	18.071,58	33.126,26	0,02	1,20	14.417,35	0,00	18.708,91
238+0,000	10,00	2,51	49,70	0,03	0,50	18.121,28	33.126,76	0,03	0,50	14.417,85	0,00	18.708,91
239+0,000	10,00	1,76	42,70	0,04	0,70	18.163,98	33.127,46	0,04	0,70	14.418,55	0,00	18.708,91
240+0,000	10,00	1,74	35,00	0,15	1,90	18.198,98	33.129,36	0,15	1,90	14.420,45	0,00	18.708,91
241+0,000	10,00	1,21	29,50	0,14	2,90	18.228,48	33.132,26	0,14	2,90	14.423,35	0,00	18.708,91
242+0,000	10,00	0,97	21,80	0,53	6,70	18.250,28	33.138,96	0,53	6,70	14.430,05	0,00	18.708,91
243+0,000	10,00	1,75	27,20	0,15	6,80	18.277,48	33.145,76	0,15	6,80	14.436,85	0,00	18.708,91
244+0,000	10,00	1,54	32,90	0,36	5,10	18.310,38	33.150,86	0,36	5,10	14.441,95	0,00	18.708,91
245+0,000	10,00	0,38	19,20	0,54	9,00	18.329,58	33.159,86	0,54	9,00	14.450,95	0,00	18.708,91
246+0,000	10,00	1,05	14,30	0,68	12,20	18.343,88	33.172,06	0,68	12,20	14.463,15	0,00	18.708,91
247+0,000	10,00	0,13	11,80	1,78	24,60	18.355,68	33.196,66	1,78	24,60	14.487,75	0,00	18.708,91
248+0,000	10,00	0,21	3,40	1,97	37,50	18.359,08	33.234,16	1,97	37,50	14.525,25	0,00	18.708,91

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
249+0,000	10,00	0,09	3,00	3,31	52,80	18.362,08	33.286,96	3,31	52,80	14.578,05	0,00	18.708,91
250+0,000	10,00	0,12	2,10	3,23	65,40	18.364,18	33.352,36	3,23	65,40	14.643,45	0,00	18.708,91
251+0,000	10,00	0,47	5,90	1,67	49,00	18.370,08	33.401,36	1,67	49,00	14.692,45	0,00	18.708,91
252+0,000	10,00	1,35	18,20	0,79	24,60	18.388,28	33.425,96	0,79	24,60	14.717,05	0,00	18.708,91
253+0,000	10,00	0,61	19,60	0,62	14,10	18.407,88	33.440,06	0,62	14,10	14.731,15	0,00	18.708,91
254+0,000	10,00	2,18	27,90	0,16	7,80	18.435,78	33.447,86	0,16	7,80	14.738,95	0,00	18.708,91
255+0,000	10,00	2,19	43,70	0,05	2,10	18.479,48	33.449,96	0,05	2,10	14.741,05	0,00	18.708,91
256+0,000	10,00	1,91	41,00	0,27	3,20	18.520,48	33.453,16	0,27	3,20	14.744,25	0,00	18.708,91
257+0,000	10,00	2,38	42,90	0,02	2,90	18.563,38	33.456,06	0,02	2,90	14.747,15	0,00	18.708,91
258+0,000	10,00	2,60	49,80	0,00	0,20	18.613,18	33.456,26	0,00	0,20	14.747,35	0,00	18.708,91
259+0,000	10,00	3,96	65,60	0,00	0,00	18.678,78	33.456,26	0,00	0,00	14.747,35	0,00	18.708,91
260+0,000	10,00	0,69	46,50	0,74	7,40	18.725,28	33.463,66	0,74	7,40	14.754,75	0,00	18.708,91
261+0,000	10,00	1,25	19,40	0,24	9,80	18.744,68	33.473,46	0,24	9,80	14.764,55	0,00	18.708,91
262+0,000	10,00	1,43	26,80	0,39	6,30	18.771,48	33.479,76	0,39	6,30	14.770,85	0,00	18.708,91
263+0,000	10,00	2,09	35,20	0,20	5,90	18.806,68	33.485,66	0,20	5,90	14.776,75	0,00	18.708,91
264+0,000	10,00	2,94	50,30	0,14	3,40	18.856,98	33.489,06	0,14	3,40	14.780,15	0,00	18.708,91
265+0,000	10,00	4,71	76,50	0,00	1,40	18.933,48	33.490,46	0,00	1,40	14.781,55	0,00	18.708,91
266+0,000	10,00	5,55	102,60	0,00	0,00	19.036,08	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
266+7,760	3,88	9,63	58,90	0,00	0,00	19.094,98	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
266+10,000	1,12	9,80	21,76	0,00	0,00	19.116,74	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
267+0,000	5,00	5,79	77,95	0,00	0,00	19.194,69	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
267+10,000	5,00	6,76	62,75	0,00	0,00	19.257,44	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
268+0,000	5,00	7,90	73,30	0,00	0,00	19.330,74	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
268+10,000	5,00	7,15	75,25	0,00	0,00	19.405,99	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
269+0,000	5,00	6,66	69,05	0,00	0,00	19.475,04	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
269+10,000	5,00	7,19	69,25	0,00	0,00	19.544,29	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
270+0,000	5,00	7,74	74,65	0,00	0,00	19.618,94	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
270+10,000	5,00	5,91	68,25	0,00	0,00	19.687,19	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
271+0,000	5,00	4,38	51,45	0,00	0,00	19.738,64	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
271+10,000	5,00	4,34	43,60	0,00	0,00	19.782,24	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91

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Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
272+0,000	5,00	4,79	45,65	0,00	0,00	19.827,89	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
272+10,000	5,00	7,01	59,00	0,00	0,00	19.886,89	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
273+0,000	5,00	8,18	75,95	0,00	0,00	19.962,84	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
273+10,000	5,00	7,87	80,25	0,00	0,00	20.043,09	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
274+0,000	5,00	7,08	74,75	0,00	0,00	20.117,84	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
274+10,000	5,00	6,47	67,75	0,00	0,00	20.185,59	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
275+0,000	5,00	6,21	63,40	0,00	0,00	20.248,99	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
275+10,000	5,00	5,61	59,10	0,00	0,00	20.308,09	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
276+0,000	5,00	5,05	53,30	0,00	0,00	20.361,39	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
276+10,000	5,00	4,35	47,00	0,00	0,00	20.408,39	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
277+0,000	5,00	3,50	39,25	0,00	0,00	20.447,64	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
277+10,000	5,00	3,25	33,75	0,00	0,00	20.481,39	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
278+0,000	5,00	3,40	33,25	0,00	0,00	20.514,64	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
278+10,000	5,00	3,79	35,95	0,00	0,00	20.550,59	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
279+0,000	5,00	4,64	42,15	0,00	0,00	20.592,74	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
279+10,000	5,00	4,62	46,30	0,00	0,00	20.639,04	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
280+0,000	5,00	5,68	51,50	0,00	0,00	20.690,54	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
280+10,000	5,00	4,94	53,10	0,00	0,00	20.743,64	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
281+0,000	5,00	5,65	52,95	0,00	0,00	20.796,59	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
281+10,000	5,00	7,69	66,70	0,00	0,00	20.863,29	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
282+0,000	5,00	9,63	86,60	0,00	0,00	20.949,89	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
282+10,000	5,00	11,79	107,10	0,00	0,00	21.056,99	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
283+0,000	5,00	14,34	130,65	0,00	0,00	21.187,64	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
283+10,000	5,00	18,87	166,05	0,00	0,00	21.353,69	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
284+0,000	5,00	23,71	212,90	0,00	0,00	21.566,59	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
284+10,000	5,00	25,61	246,60	0,00	0,00	21.813,19	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
285+0,000	5,00	27,16	263,85	0,00	0,00	22.077,04	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
285+10,000	5,00	25,57	263,65	0,00	0,00	22.340,69	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
286+0,000	5,00	24,57	250,70	0,00	0,00	22.591,39	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91
286+10,000	5,00	16,67	206,20	0,00	0,00	22.797,59	33.490,46	0,00	0,00	14.781,55	0,00	18.708,91

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
287+0,000	5,00	5,23	109,50	2,04	10,20	22.907,09	33.500,66	2,04	10,20	14.791,75	0,00	18.708,91
287+10,000	5,00	1,10	31,65	10,82	64,30	22.938,74	33.564,96	8,256	51,48	14.843,23	12,82	18.721,73
288+0,000	5,00	0,00	5,50	23,35	170,85	22.944,24	33.735,81	8,256	82,56	14.925,79	88,29	18.810,02
288+10,000	5,00	0,00	0,00	33,72	285,35	22.944,24	34.021,16	8,256	82,56	15.008,35	202,79	19.012,81
289+0,000	5,00	0,00	0,00	45,11	394,15	22.944,24	34.415,31	8,256	82,56	15.090,91	311,59	19.324,40
289+10,000	5,00	0,00	0,00	61,76	534,35	22.944,24	34.949,66	8,256	82,56	15.173,47	451,79	19.776,19
289+19,044	4,52	0,00	0,00	78,95	636,01	22.944,24	35.585,67	8,256	74,63	15.248,11	561,37	20.337,56
290+0,000	0,48	0,00	0,00	80,77	76,67	22.944,24	35.662,34	8,256	7,93	15.256,03	68,74	20.406,30
290+10,000	5,00	0,00	0,00	92,58	866,75	22.944,24	36.529,09	8,256	82,56	15.338,59	784,19	21.190,49
291+0,000	5,00	0,00	0,00	106,10	993,40	22.944,24	37.522,49	8,256	82,56	15.421,15	910,84	22.101,33
291+10,000	5,00	0,00	0,00	118,17	1.121,35	22.944,24	38.643,84	8,256	82,56	15.503,71	1.038,79	23.140,12
292+0,000	5,00	0,00	0,00	130,46	1.243,15	22.944,24	39.886,99	8,256	82,56	15.586,27	1.160,59	24.300,71
292+10,000	5,00	0,00	0,00	131,26	1.308,60	22.944,24	41.195,59	8,256	82,56	15.668,83	1.226,04	25.526,75
293+0,000	5,00	0,00	0,00	132,95	1.321,05	22.944,24	42.516,64	8,256	82,56	15.751,39	1.238,49	26.765,24
293+10,000	5,00	0,00	0,00	122,33	1.276,40	22.944,24	43.793,04	8,256	82,56	15.833,95	1.193,84	27.959,08
294+0,000	5,00	0,00	0,00	113,23	1.177,80	22.944,24	44.970,84	8,256	82,56	15.916,51	1.095,24	29.054,32
294+10,000	5,00	0,00	0,00	87,88	1.005,55	22.944,24	45.976,39	8,256	82,56	15.999,07	922,99	29.977,31
295+0,000	5,00	0,00	0,00	64,51	761,95	22.944,24	46.738,34	8,256	82,56	16.081,63	679,39	30.656,70
295+10,000	5,00	0,03	0,15	34,63	495,70	22.944,39	47.234,04	8,256	82,56	16.164,19	413,14	31.069,84
296+0,000	5,00	0,00	0,15	14,50	245,65	22.944,54	47.479,69	8,256	82,56	16.246,75	163,09	31.232,93
296+10,000	5,00	25,88	129,40	0,00	72,50	23.073,94	47.552,19	0,00	41,28	16.288,03	31,22	31.264,15
297+0,000	5,00	68,43	471,55	0,00	0,00	23.545,49	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
297+10,000	5,00	78,71	735,70	0,00	0,00	24.281,19	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
298+0,000	5,00	88,32	835,15	0,00	0,00	25.116,34	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
298+10,000	5,00	94,31	913,15	0,00	0,00	26.029,49	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
299+0,000	5,00	102,01	981,60	0,00	0,00	27.011,09	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
299+10,000	5,00	93,47	977,40	0,00	0,00	27.988,49	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
300+0,000	5,00	86,87	901,70	0,00	0,00	28.890,19	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
300+10,000	5,00	78,47	826,70	0,00	0,00	29.716,89	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
301+0,000	5,00	71,16	748,15	0,00	0,00	30.465,04	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
301+10,000	5,00	65,35	682,55	0,00	0,00	31.147,59	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
302+0,000	5,00	59,19	622,70	0,00	0,00	31.770,29	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
302+10,000	5,00	52,66	559,25	0,00	0,00	32.329,54	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
303+0,000	5,00	46,68	496,70	0,00	0,00	32.826,24	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
303+10,000	5,00	40,17	434,25	0,00	0,00	33.260,49	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
304+0,000	5,00	34,40	372,85	0,00	0,00	33.633,34	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
304+10,000	5,00	28,56	314,80	0,00	0,00	33.948,14	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
305+0,000	5,00	22,85	257,05	0,00	0,00	34.205,19	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
305+10,000	5,00	17,15	200,00	0,00	0,00	34.405,19	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
306+0,000	5,00	12,27	147,10	0,00	0,00	34.552,29	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
306+10,000	5,00	9,82	110,45	0,00	0,00	34.662,74	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
307+0,000	5,00	7,35	85,85	0,00	0,00	34.748,59	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
307+10,000	5,00	6,06	67,05	0,00	0,00	34.815,64	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
308+0,000	5,00	4,11	50,85	0,00	0,00	34.866,49	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
308+10,000	5,00	3,18	36,45	0,00	0,00	34.902,94	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
309+0,000	5,00	2,55	28,65	0,00	0,00	34.931,59	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
309+10,000	5,00	3,93	32,40	0,00	0,00	34.963,99	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
310+0,000	5,00	5,59	47,60	0,00	0,00	35.011,59	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
310+10,000	5,00	5,63	56,10	0,00	0,00	35.067,69	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
311+0,000	5,00	6,01	58,20	0,00	0,00	35.125,89	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
311+10,000	5,00	6,34	61,75	0,00	0,00	35.187,64	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
312+0,000	5,00	6,47	64,05	0,00	0,00	35.251,69	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
312+10,000	5,00	6,63	65,50	0,00	0,00	35.317,19	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
313+0,000	5,00	6,55	65,90	0,00	0,00	35.383,09	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
313+10,000	5,00	3,40	49,75	0,00	0,00	35.432,84	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
313+10,329	0,16	3,32	1,08	0,00	0,00	35.433,92	47.552,19	0,00	0,00	16.288,03	0,00	31.264,15
314+0,000	4,84	1,95	25,51	0,17	0,82	35.459,42	47.553,01	0,17	0,82	16.288,86	0,00	31.264,15
315+0,000	10,00	0,73	26,80	0,94	11,10	35.486,22	47.564,11	0,94	11,10	16.299,96	0,00	31.264,15
316+0,000	10,00	0,70	14,30	0,46	14,00	35.500,52	47.578,11	0,46	14,00	16.313,96	0,00	31.264,15
317+0,000	10,00	0,57	12,70	0,76	12,20	35.513,22	47.590,31	0,76	12,20	16.326,16	0,00	31.264,15

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
318+0,000	10,00	0,92	14,90	0,36	11,20	35.528,12	47.601,51	0,36	11,20	16.337,36	0,00	31.264,15
319+0,000	10,00	1,40	23,20	0,28	6,40	35.551,32	47.607,91	0,28	6,40	16.343,76	0,00	31.264,15
320+0,000	10,00	1,10	25,00	0,65	9,30	35.576,32	47.617,21	0,65	9,30	16.353,06	0,00	31.264,15
321+0,000	10,00	1,98	30,80	0,28	9,30	35.607,12	47.626,51	0,28	9,30	16.362,36	0,00	31.264,15
322+0,000	10,00	1,23	32,10	0,35	6,30	35.639,22	47.632,81	0,35	6,30	16.368,66	0,00	31.264,15
323+0,000	10,00	2,26	34,90	0,25	6,00	35.674,12	47.638,81	0,25	6,00	16.374,66	0,00	31.264,15
324+0,000	10,00	2,22	44,80	0,25	5,00	35.718,92	47.643,81	0,25	5,00	16.379,66	0,00	31.264,15
325+0,000	10,00	2,34	45,60	0,11	3,60	35.764,52	47.647,41	0,11	3,60	16.383,26	0,00	31.264,15
326+0,000	10,00	4,26	66,00	0,04	1,50	35.830,52	47.648,91	0,04	1,50	16.384,76	0,00	31.264,15
327+0,000	10,00	2,40	66,60	0,02	0,60	35.897,12	47.649,51	0,02	0,60	16.385,36	0,00	31.264,15
328+0,000	10,00	1,90	43,00	0,03	0,50	35.940,12	47.650,01	0,03	0,50	16.385,86	0,00	31.264,15
329+0,000	10,00	3,28	51,80	0,00	0,30	35.991,92	47.650,31	0,00	0,30	16.386,16	0,00	31.264,15
330+0,000	10,00	4,11	73,90	0,00	0,00	36.065,82	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
331+0,000	10,00	4,31	84,20	0,00	0,00	36.150,02	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
332+0,000	10,00	5,63	99,40	0,00	0,00	36.249,42	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
333+0,000	10,00	4,91	105,40	0,00	0,00	36.354,82	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
334+0,000	10,00	2,70	76,10	0,00	0,00	36.430,92	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
335+0,000	10,00	4,06	67,60	0,00	0,00	36.498,52	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
336+0,000	10,00	4,90	89,60	0,00	0,00	36.588,12	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
337+0,000	10,00	8,29	131,90	0,00	0,00	36.720,02	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
338+0,000	10,00	7,47	157,60	0,00	0,00	36.877,62	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
339+0,000	10,00	6,86	143,30	0,00	0,00	37.020,92	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
340+0,000	10,00	4,82	116,80	0,00	0,00	37.137,72	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
341+0,000	10,00	2,42	72,40	0,00	0,00	37.210,12	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
342+0,000	10,00	2,46	48,80	0,00	0,00	37.258,92	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
343+0,000	10,00	1,33	37,90	0,00	0,00	37.296,82	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
344+0,000	10,00	3,07	44,00	0,00	0,00	37.340,82	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
345+0,000	10,00	1,75	48,20	0,00	0,00	37.389,02	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
346+0,000	10,00	3,89	56,40	0,00	0,00	37.445,42	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
347+0,000	10,00	4,30	81,90	0,00	0,00	37.527,32	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
348+0,000	10,00	4,57	88,70	0,00	0,00	37.616,02	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
349+0,000	10,00	4,97	95,40	0,00	0,00	37.711,42	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
350+0,000	10,00	4,89	98,60	0,00	0,00	37.810,02	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
351+0,000	10,00	4,72	96,10	0,00	0,00	37.906,12	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
352+0,000	10,00	5,52	102,40	0,00	0,00	38.008,52	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
353+0,000	10,00	5,39	109,10	0,00	0,00	38.117,62	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
354+0,000	10,00	4,97	103,60	0,00	0,00	38.221,22	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
355+0,000	10,00	3,83	88,00	0,00	0,00	38.309,22	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
356+0,000	10,00	2,95	67,80	0,00	0,00	38.377,02	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
357+0,000	10,00	2,80	57,50	0,00	0,00	38.434,52	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
358+0,000	10,00	1,97	47,70	0,00	0,00	38.482,22	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
359+0,000	10,00	2,98	49,50	0,00	0,00	38.531,72	47.650,31	0,00	0,00	16.386,16	0,00	31.264,15
360+0,000	10,00	1,62	46,00	0,28	2,80	38.577,72	47.653,11	0,28	2,80	16.388,96	0,00	31.264,15
361+0,000	10,00	1,20	28,20	0,57	8,50	38.605,92	47.661,61	0,57	8,50	16.397,46	0,00	31.264,15
362+0,000	10,00	1,41	26,10	0,47	10,40	38.632,02	47.672,01	0,47	10,40	16.407,86	0,00	31.264,15
363+0,000	10,00	0,48	18,90	1,26	17,30	38.650,92	47.689,31	1,26	17,30	16.425,16	0,00	31.264,15
364+0,000	10,00	0,08	5,60	1,82	30,80	38.656,52	47.720,11	1,82	30,80	16.455,96	0,00	31.264,15
365+0,000	10,00	0,72	8,00	1,38	32,00	38.664,52	47.752,11	1,38	32,00	16.487,96	0,00	31.264,15
366+0,000	10,00	0,00	7,20	2,28	36,60	38.671,72	47.788,71	2,28	36,60	16.524,56	0,00	31.264,15
367+0,000	10,00	0,14	1,40	2,72	50,00	38.673,12	47.838,71	2,72	50,00	16.574,56	0,00	31.264,15
368+0,000	10,00	0,07	2,10	2,44	51,60	38.675,22	47.890,31	2,44	51,60	16.626,16	0,00	31.264,15
369+0,000	10,00	0,54	6,10	1,37	38,10	38.681,32	47.928,41	1,37	38,10	16.664,26	0,00	31.264,15
370+0,000	10,00	0,21	7,50	1,52	28,90	38.688,82	47.957,31	1,52	28,90	16.693,16	0,00	31.264,15
371+0,000	10,00	0,00	2,10	3,36	48,80	38.690,92	48.006,11	3,36	48,80	16.741,96	0,00	31.264,15
372+0,000	10,00	0,00	0,00	3,74	71,00	38.690,92	48.077,11	3,74	71,00	16.812,96	0,00	31.264,15
373+0,000	10,00	0,19	1,90	3,99	77,30	38.692,82	48.154,41	3,99	77,30	16.890,26	0,00	31.264,15
374+0,000	10,00	0,00	1,90	4,89	88,80	38.694,72	48.243,21	4,89	88,80	16.979,06	0,00	31.264,15
375+0,000	10,00	0,00	0,00	4,37	92,60	38.694,72	48.335,81	4,37	92,60	17.071,66	0,00	31.264,15
376+0,000	10,00	0,00	0,00	4,67	90,40	38.694,72	48.426,21	4,67	90,40	17.162,06	0,00	31.264,15
377+0,000	10,00	0,29	2,90	2,55	72,20	38.697,62	48.498,41	2,55	72,20	17.234,26	0,00	31.264,15

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
378+0,000	10,00	0,06	3,50	1,19	37,40	38.701,12	48.535,81	1,19	37,40	17.271,66	0,00	31.264,15
379+0,000	10,00	0,04	1,00	1,84	30,30	38.702,12	48.566,11	1,84	30,30	17.301,96	0,00	31.264,15
380+0,000	10,00	0,00	0,40	2,96	48,00	38.702,52	48.614,11	2,96	48,00	17.349,96	0,00	31.264,15
381+0,000	10,00	0,14	1,40	1,27	42,30	38.703,92	48.656,41	1,27	42,30	17.392,26	0,00	31.264,15
382+0,000	10,00	0,61	7,50	1,04	23,10	38.711,42	48.679,51	1,04	23,10	17.415,36	0,00	31.264,15
383+0,000	10,00	3,16	37,70	0,80	18,40	38.749,12	48.697,91	0,80	18,40	17.433,76	0,00	31.264,15
384+0,000	10,00	0,84	40,00	0,25	10,50	38.789,12	48.708,41	0,25	10,50	17.444,26	0,00	31.264,15
385+0,000	10,00	0,45	12,90	0,96	12,10	38.802,02	48.720,51	0,96	12,10	17.456,36	0,00	31.264,15
386+0,000	10,00	2,13	25,80	0,08	10,40	38.827,82	48.730,91	0,08	10,40	17.466,76	0,00	31.264,15
387+0,000	10,00	2,40	45,30	0,26	3,40	38.873,12	48.734,31	0,26	3,40	17.470,16	0,00	31.264,15
388+0,000	10,00	3,85	62,50	0,03	2,90	38.935,62	48.737,21	0,03	2,90	17.473,06	0,00	31.264,15
389+0,000	10,00	3,56	74,10	0,00	0,30	39.009,72	48.737,51	0,00	0,30	17.473,36	0,00	31.264,15
390+0,000	10,00	4,54	81,00	0,00	0,00	39.090,72	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
390+19,314	9,66	6,35	105,20	0,00	0,00	39.195,92	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
391+0,000	0,34	6,40	4,34	0,00	0,00	39.200,25	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
391+10,000	5,00	7,29	68,45	0,00	0,00	39.268,70	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
392+0,000	5,00	7,57	74,30	0,00	0,00	39.343,00	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
392+10,000	5,00	7,51	75,40	0,00	0,00	39.418,40	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
393+0,000	5,00	7,85	76,80	0,00	0,00	39.495,20	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
393+10,000	5,00	8,82	83,35	0,00	0,00	39.578,55	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
394+0,000	5,00	10,18	95,00	0,00	0,00	39.673,55	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
394+10,000	5,00	10,16	101,70	0,00	0,00	39.775,25	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
395+0,000	5,00	9,68	99,20	0,00	0,00	39.874,45	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
395+10,000	5,00	10,03	98,55	0,00	0,00	39.973,00	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
395+19,314	4,66	10,06	93,62	0,00	0,00	40.066,62	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
396+0,000	0,34	10,16	6,87	0,00	0,00	40.073,50	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
396+10,000	5,00	10,26	102,10	0,00	0,00	40.175,60	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
397+0,000	5,00	9,68	99,70	0,00	0,00	40.275,30	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
397+7,003	3,50	13,68	81,76	0,00	0,00	40.357,06	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
397+10,000	1,50	16,19	44,81	0,00	0,00	40.401,86	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
398+0,000	5,00	20,46	183,25	0,00	0,00	40.585,11	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
398+10,000	5,00	21,87	211,65	0,00	0,00	40.796,76	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
398+14,692	2,35	22,46	104,18	0,00	0,00	40.900,94	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
399+0,000	2,65	21,86	117,45	0,00	0,00	41.018,39	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
399+10,000	5,00	19,76	208,10	0,00	0,00	41.226,49	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
400+0,000	5,00	17,76	187,60	0,00	0,00	41.414,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
400+10,000	5,00	16,07	169,15	0,00	0,00	41.583,24	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
401+0,000	5,00	15,50	157,85	0,00	0,00	41.741,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
401+10,000	5,00	15,30	154,00	0,00	0,00	41.895,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
402+0,000	5,00	14,97	151,35	0,00	0,00	42.046,44	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
402+10,000	5,00	15,48	152,25	0,00	0,00	42.198,69	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
403+0,000	5,00	15,93	157,05	0,00	0,00	42.355,74	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
403+10,000	5,00	15,26	155,95	0,00	0,00	42.511,69	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
403+14,692	2,35	14,72	70,45	0,00	0,00	42.582,14	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
404+0,000	2,65	14,13	76,45	0,00	0,00	42.658,59	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
405+0,000	10,00	13,32	274,50	0,00	0,00	42.933,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
406+0,000	10,00	10,77	240,90	0,00	0,00	43.173,99	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
407+0,000	10,00	8,74	195,10	0,00	0,00	43.369,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
408+0,000	10,00	9,74	184,80	0,00	0,00	43.553,89	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
409+0,000	10,00	8,53	182,70	0,00	0,00	43.736,59	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
410+0,000	10,00	9,44	179,70	0,00	0,00	43.916,29	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
411+0,000	10,00	8,81	182,50	0,00	0,00	44.098,79	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
412+0,000	10,00	9,02	178,30	0,00	0,00	44.277,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
413+0,000	10,00	8,46	174,80	0,00	0,00	44.451,89	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
414+0,000	10,00	6,61	150,70	0,00	0,00	44.602,59	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
415+0,000	10,00	5,27	118,80	0,00	0,00	44.721,39	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
416+0,000	10,00	4,36	96,30	0,00	0,00	44.817,69	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
417+0,000	10,00	3,37	77,30	0,00	0,00	44.894,99	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
418+0,000	10,00	4,08	74,50	0,00	0,00	44.969,49	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
419+0,000	10,00	5,07	91,50	0,00	0,00	45.060,99	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
420+0,000	10,00	4,55	96,20	0,00	0,00	45.157,19	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
421+0,000	10,00	4,44	89,90	0,00	0,00	45.247,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
422+0,000	10,00	8,88	133,20	0,00	0,00	45.380,29	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
423+0,000	10,00	6,38	152,60	0,00	0,00	45.532,89	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
424+0,000	10,00	6,44	128,20	0,00	0,00	45.661,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
425+0,000	10,00	7,20	136,40	0,00	0,00	45.797,49	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
426+0,000	10,00	7,05	142,50	0,00	0,00	45.939,99	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
427+0,000	10,00	8,10	151,50	0,00	0,00	46.091,49	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
428+0,000	10,00	7,06	151,60	0,00	0,00	46.243,09	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
429+0,000	10,00	7,32	143,80	0,00	0,00	46.386,89	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
430+0,000	10,00	8,71	160,30	0,00	0,00	46.547,19	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
431+0,000	10,00	7,93	166,40	0,00	0,00	46.713,59	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
432+0,000	10,00	7,10	150,30	0,00	0,00	46.863,89	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
433+0,000	10,00	8,34	154,40	0,00	0,00	47.018,29	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
434+0,000	10,00	10,05	183,90	0,00	0,00	47.202,19	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
435+0,000	10,00	10,43	204,80	0,00	0,00	47.406,99	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
436+0,000	10,00	8,99	194,20	0,00	0,00	47.601,19	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
437+0,000	10,00	8,11	171,00	0,00	0,00	47.772,19	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
438+0,000	10,00	7,50	156,10	0,00	0,00	47.928,29	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
439+0,000	10,00	6,16	136,60	0,00	0,00	48.064,89	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
440+0,000	10,00	4,12	102,80	0,00	0,00	48.167,69	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
441+0,000	10,00	3,67	77,90	0,00	0,00	48.245,59	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
442+0,000	10,00	3,16	68,30	0,00	0,00	48.313,89	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
443+0,000	10,00	2,43	55,90	0,00	0,00	48.369,79	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
444+0,000	10,00	1,46	38,90	0,00	0,00	48.408,69	48.737,51	0,00	0,00	17.473,36	0,00	31.264,15
445+0,000	10,00	0,81	22,70	0,08	0,80	48.431,39	48.738,31	0,08	0,80	17.474,16	0,00	31.264,15
446+0,000	10,00	0,26	10,70	0,29	3,70	48.442,09	48.742,01	0,29	3,70	17.477,86	0,00	31.264,15
447+0,000	10,00	0,22	4,80	0,23	5,20	48.446,89	48.747,21	0,23	5,20	17.483,06	0,00	31.264,15
448+0,000	10,00	0,00	2,20	1,09	13,20	48.449,09	48.760,41	1,09	13,20	17.496,26	0,00	31.264,15
448+0,724	0,36	0,00	0,00	1,17	0,81	48.449,09	48.761,22	1,17	0,81	17.497,07	0,00	31.264,15

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Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
448+10,000	4,64	0,00	0,00	2,20	15,64	48.449,09	48.776,86	2,20	15,64	17.512,71	0,00	31.264,15
449+0,000	5,00	0,00	0,00	3,18	26,90	48.449,09	48.803,76	3,18	26,90	17.539,61	0,00	31.264,15
449+10,000	5,00	0,00	0,00	3,19	31,85	48.449,09	48.835,61	3,19	31,85	17.571,46	0,00	31.264,15
450+0,000	5,00	0,00	0,00	3,24	32,15	48.449,09	48.867,76	3,24	32,15	17.603,61	0,00	31.264,15
450+10,000	5,00	0,00	0,00	3,25	32,45	48.449,09	48.900,21	3,25	32,45	17.636,06	0,00	31.264,15
451+0,000	5,00	0,00	0,00	3,16	32,05	48.449,09	48.932,26	3,16	32,05	17.668,11	0,00	31.264,15
451+10,000	5,00	0,00	0,00	3,79	34,75	48.449,09	48.967,01	3,79	34,75	17.702,86	0,00	31.264,15
452+0,000	5,00	0,00	0,00	12,57	81,80	48.449,09	49.048,81	8,256	60,23	17.763,09	21,57	31.285,72
452+10,000	5,00	0,00	0,00	18,73	156,50	48.449,09	49.205,31	8,256	82,56	17.845,65	73,94	31.359,66
453+0,000	5,00	0,00	0,00	22,28	205,05	48.449,09	49.410,36	8,256	82,56	17.928,21	122,49	31.482,15
453+0,724	0,36	0,00	0,00	22,36	16,07	48.449,09	49.426,43	8,256	5,94	17.934,15	10,13	31.492,28
453+10,000	4,64	0,00	0,00	23,85	214,41	48.449,09	49.640,84	8,256	76,62	18.010,77	137,80	31.630,08
454+0,000	5,00	0,00	0,00	26,77	253,10	48.449,09	49.893,94	8,256	82,56	18.093,33	170,54	31.800,62
454+10,000	5,00	0,00	0,00	26,55	266,60	48.449,09	50.160,54	8,256	82,56	18.175,89	184,04	31.984,66
454+14,596	2,30	0,00	0,00	24,32	117,00	48.449,09	50.277,54	8,256	37,98	18.213,86	79,02	32.063,68
455+0,000	2,70	0,00	0,00	22,13	125,42	48.449,09	50.402,96	8,256	44,58	18.258,45	80,83	32.144,51
455+10,000	5,00	0,00	0,00	19,62	208,75	48.449,09	50.611,71	8,256	82,56	18.341,01	126,19	32.270,70
456+0,000	5,00	0,00	0,00	19,89	197,55	48.449,09	50.809,26	8,256	82,56	18.423,57	114,99	32.385,69
456+8,468	4,23	0,00	0,00	20,51	170,89	48.449,09	50.980,15	8,256	69,85	18.493,41	101,05	32.486,74
456+10,000	0,77	0,00	0,00	20,60	31,65	48.449,09	51.011,81	8,256	12,71	18.506,13	18,94	32.505,68
457+0,000	5,00	0,00	0,00	20,78	206,90	48.449,09	51.218,71	8,256	82,56	18.588,69	124,34	32.630,02
457+10,000	5,00	0,00	0,00	20,98	208,80	48.449,09	51.427,51	8,256	82,56	18.671,25	126,24	32.756,26
458+0,000	5,00	0,00	0,00	21,95	214,65	48.449,09	51.642,16	8,256	82,56	18.753,81	132,09	32.888,35
458+10,000	5,00	0,00	0,00	22,23	220,90	48.449,09	51.863,06	8,256	82,56	18.836,37	138,34	33.026,69
459+0,000	5,00	0,00	0,00	22,15	221,90	48.449,09	52.084,96	8,256	82,56	18.918,93	139,34	33.166,03
459+10,000	5,00	0,00	0,00	21,87	220,10	48.449,09	52.305,06	8,256	82,56	19.001,49	137,54	33.303,57
460+0,000	5,00	0,00	0,00	22,31	220,90	48.449,09	52.525,96	8,256	82,56	19.084,05	138,34	33.441,91
460+10,000	5,00	0,00	0,00	22,50	224,05	48.449,09	52.750,01	8,256	82,56	19.166,61	141,49	33.583,40
461+0,000	5,00	0,00	0,00	22,50	225,00	48.449,09	52.975,01	8,256	82,56	19.249,17	142,44	33.725,84
461+8,468	4,23	0,00	0,00	22,17	188,95	48.449,09	53.163,96	8,256	69,85	19.319,01	119,11	33.844,95

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Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
462+0,000	5,77	0,00	0,00	22,10	255,44	48.449,09	53.419,40	8,256	95,27	19.414,29	160,16	34.005,11
463+0,000	10,00	0,00	0,00	20,89	429,90	48.449,09	53.849,30	8,256	165,12	19.579,41	264,78	34.269,89
464+0,000	10,00	0,00	0,00	17,74	386,30	48.449,09	54.235,60	8,256	165,12	19.744,53	221,18	34.491,07
465+0,000	10,00	0,00	0,00	14,66	324,00	48.449,09	54.559,60	8,256	165,12	19.909,65	158,88	34.649,95
466+0,000	10,00	0,00	0,00	13,07	277,30	48.449,09	54.836,90	8,256	165,12	20.074,77	112,18	34.762,13
467+0,000	10,00	0,00	0,00	13,87	269,40	48.449,09	55.106,30	8,256	165,12	20.239,89	104,28	34.866,41
468+0,000	10,00	0,00	0,00	13,25	271,20	48.449,09	55.377,50	8,256	165,12	20.405,01	106,08	34.972,49
469+0,000	10,00	0,00	0,00	12,18	254,30	48.449,09	55.631,80	8,256	165,12	20.570,13	89,18	35.061,67
470+0,000	10,00	0,00	0,00	11,77	239,50	48.449,09	55.871,30	8,256	165,12	20.735,25	74,38	35.136,05
471+0,000	10,00	0,00	0,00	11,38	231,50	48.449,09	56.102,80	8,256	165,12	20.900,37	66,38	35.202,43
472+0,000	10,00	0,00	0,00	11,48	228,60	48.449,09	56.331,40	8,256	165,12	21.065,49	63,48	35.265,91
473+0,000	10,00	0,00	0,00	10,69	221,70	48.449,09	56.553,10	8,256	165,12	21.230,61	56,58	35.322,49
474+0,000	10,00	0,00	0,00	8,78	194,70	48.449,09	56.747,80	8,256	165,12	21.395,73	29,58	35.352,07
475+0,000	10,00	0,06	0,60	4,44	132,20	48.449,69	56.880,00	4,44	126,96	21.522,69	5,24	35.357,31
476+0,000	10,00	1,12	11,80	2,54	69,80	48.461,49	56.949,80	2,54	69,80	21.592,49	0,00	35.357,31
477+0,000	10,00	3,54	46,60	0,00	25,40	48.508,09	56.975,20	0,00	25,40	21.617,89	0,00	35.357,31
478+0,000	10,00	15,66	192,00	0,00	0,00	48.700,09	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
479+0,000	10,00	14,94	306,00	0,00	0,00	49.006,09	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
480+0,000	10,00	13,10	280,40	0,00	0,00	49.286,49	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
481+0,000	10,00	12,07	251,70	0,00	0,00	49.538,19	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
482+0,000	10,00	10,55	226,20	0,00	0,00	49.764,39	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
483+0,000	10,00	7,76	183,10	0,00	0,00	49.947,49	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
484+0,000	10,00	6,93	146,90	0,00	0,00	50.094,39	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
485+0,000	10,00	5,35	122,80	0,00	0,00	50.217,19	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
486+0,000	10,00	5,42	107,70	0,00	0,00	50.324,89	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
487+0,000	10,00	6,56	119,80	0,00	0,00	50.444,69	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
488+0,000	10,00	7,63	141,90	0,00	0,00	50.586,59	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
489+0,000	10,00	10,21	178,40	0,00	0,00	50.764,99	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
490+0,000	10,00	11,20	214,10	0,00	0,00	50.979,09	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
491+0,000	10,00	10,78	219,80	0,00	0,00	51.198,89	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
492+0,000	10,00	10,60	213,80	0,00	0,00	51.412,69	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
493+0,000	10,00	10,14	207,40	0,00	0,00	51.620,09	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
494+0,000	10,00	10,30	204,40	0,00	0,00	51.824,49	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
495+0,000	10,00	11,28	215,80	0,00	0,00	52.040,29	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
496+0,000	10,00	11,73	230,10	0,00	0,00	52.270,39	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
497+0,000	10,00	12,53	242,60	0,00	0,00	52.512,99	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
498+0,000	10,00	10,30	228,30	0,00	0,00	52.741,29	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
499+0,000	10,00	11,10	214,00	0,00	0,00	52.955,29	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
500+0,000	10,00	12,44	235,40	0,00	0,00	53.190,69	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
501+0,000	10,00	13,69	261,30	0,00	0,00	53.451,99	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
502+0,000	10,00	13,98	276,70	0,00	0,00	53.728,69	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
503+0,000	10,00	15,97	299,50	0,00	0,00	54.028,19	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
503+11,038	5,52	17,75	186,13	0,00	0,00	54.214,33	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
504+0,000	4,48	18,90	164,19	0,00	0,00	54.378,52	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
504+10,000	5,00	20,42	196,60	0,00	0,00	54.575,12	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
505+0,000	5,00	17,83	191,25	0,00	0,00	54.766,37	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
505+10,000	5,00	13,28	155,55	0,00	0,00	54.921,92	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
506+0,000	5,00	5,33	93,05	0,00	0,00	55.014,97	56.975,20	0,00	0,00	21.617,89	0,00	35.357,31
506+10,000	5,00	0,00	26,65	3,11	15,55	55.041,62	56.990,75	3,11	15,55	21.633,44	0,00	35.357,31
507+0,000	5,00	0,00	0,00	10,79	69,50	55.041,62	57.060,25	8,256	56,83	21.690,27	12,67	35.369,98
507+10,000	5,00	0,00	0,00	19,51	151,50	55.041,62	57.211,75	8,256	82,56	21.772,83	68,94	35.438,92
508+0,000	5,00	0,00	0,00	24,93	222,20	55.041,62	57.433,95	8,256	82,56	21.855,39	139,64	35.578,56
508+10,000	5,00	0,00	0,00	29,30	271,15	55.041,62	57.705,10	8,256	82,56	21.937,95	188,59	35.767,15
508+11,038	0,52	0,00	0,00	29,79	30,73	55.041,62	57.735,82	8,256	8,59	21.946,53	22,14	35.789,29
509+0,000	4,48	0,00	0,00	31,57	274,89	55.041,62	58.010,72	8,256	73,97	22.020,51	200,92	35.990,21
509+10,000	5,00	0,00	0,00	32,83	322,00	55.041,62	58.332,72	8,256	82,56	22.103,07	239,44	36.229,65
510+0,000	5,00	0,00	0,00	32,15	324,90	55.041,62	58.657,62	8,256	82,56	22.185,63	242,34	36.471,99
510+10,000	5,00	0,00	0,00	31,82	319,85	55.041,62	58.977,47	8,256	82,56	22.268,19	237,29	36.709,28
511+0,000	5,00	0,00	0,00	33,12	324,70	55.041,62	59.302,17	8,256	82,56	22.350,75	242,14	36.951,42
511+0,420	0,21	0,00	0,00	33,19	13,93	55.041,62	59.316,09	8,256	3,47	22.354,21	10,46	36.961,88

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SINFRA P2026222144





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
511+10,000	4,79	0,00	0,00	34,74	325,38	55.041,62	59.641,48	8,256	79,09	22.433,31	246,29	37.208,17
512+0,000	5,00	0,00	0,00	36,61	356,75	55.041,62	59.998,23	8,256	82,56	22.515,87	274,19	37.482,36
512+10,000	5,00	0,00	0,00	38,95	377,80	55.041,62	60.376,03	8,256	82,56	22.598,43	295,24	37.777,60
513+0,000	5,00	0,00	0,00	40,76	398,55	55.041,62	60.774,58	8,256	82,56	22.680,99	315,99	38.093,59
513+9,802	4,90	0,00	0,00	42,68	408,86	55.041,62	61.183,43	8,256	80,91	22.761,89	327,95	38.421,54
513+10,000	0,10	0,00	0,00	42,72	8,54	55.041,62	61.191,97	8,256	1,65	22.763,55	6,89	38.428,43
514+0,000	5,00	0,00	0,00	41,65	421,85	55.041,62	61.613,82	8,256	82,56	22.846,11	339,29	38.767,72
514+10,000	5,00	0,00	0,00	39,54	405,95	55.041,62	62.019,77	8,256	82,56	22.928,67	323,39	39.091,11
515+0,000	5,00	0,00	0,00	32,12	358,30	55.041,62	62.378,07	8,256	82,56	23.011,23	275,74	39.366,85
515+10,000	5,00	0,00	0,00	23,25	276,85	55.041,62	62.654,92	8,256	82,56	23.093,79	194,29	39.561,14
516+0,000	5,00	0,00	0,00	18,77	210,10	55.041,62	62.865,02	8,256	82,56	23.176,35	127,54	39.688,68
516+10,000	5,00	0,00	0,00	15,61	171,90	55.041,62	63.036,92	8,256	82,56	23.258,91	89,34	39.778,02
517+0,000	5,00	0,00	0,00	13,22	144,15	55.041,62	63.181,07	8,256	82,56	23.341,47	61,59	39.839,61
517+10,000	5,00	0,00	0,00	11,60	124,10	55.041,62	63.305,17	8,256	82,56	23.424,03	41,54	39.881,15
518+0,000	5,00	0,00	0,00	12,53	120,65	55.041,62	63.425,82	8,256	82,56	23.506,59	38,09	39.919,24
518+9,802	4,90	0,00	0,00	14,12	130,59	55.041,62	63.556,41	8,256	80,91	23.587,49	49,68	39.968,91
519+0,000	5,10	0,00	0,00	17,15	159,48	55.041,62	63.715,89	8,256	84,21	23.671,71	75,27	40.044,18
520+0,000	10,00	0,00	0,00	22,35	395,00	55.041,62	64.110,89	8,256	165,12	23.836,83	229,88	40.274,06
521+0,000	10,00	0,00	0,00	21,22	435,70	55.041,62	64.546,59	8,256	165,12	24.001,95	270,58	40.544,64
522+0,000	10,00	0,00	0,00	16,06	372,80	55.041,62	64.919,39	8,256	165,12	24.167,07	207,68	40.752,32
523+0,000	10,00	0,00	0,00	16,43	324,90	55.041,62	65.244,29	8,256	165,12	24.332,19	159,78	40.912,10
524+0,000	10,00	0,00	0,00	14,71	311,40	55.041,62	65.555,69	8,256	165,12	24.497,31	146,28	41.058,38
525+0,000	10,00	0,00	0,00	13,61	283,20	55.041,62	65.838,89	8,256	165,12	24.662,43	118,08	41.176,46
526+0,000	10,00	0,00	0,00	11,27	248,80	55.041,62	66.087,69	8,256	165,12	24.827,55	83,68	41.260,14
527+0,000	10,00	0,00	0,00	8,69	199,60	55.041,62	66.287,29	8,256	165,12	24.992,67	34,48	41.294,62
528+0,000	10,00	0,00	0,00	5,35	140,40	55.041,62	66.427,69	5,35	136,06	25.128,73	4,34	41.298,96
529+0,000	10,00	0,36	3,60	3,09	84,40	55.045,22	66.512,09	3,09	84,40	25.213,13	0,00	41.298,96
530+0,000	10,00	0,71	10,70	1,18	42,70	55.055,92	66.554,79	1,18	42,70	25.255,83	0,00	41.298,96
531+0,000	10,00	1,91	26,20	0,07	12,50	55.082,12	66.567,29	0,07	12,50	25.268,33	0,00	41.298,96
531+16,600	8,30	5,32	60,01	0,00	0,58	55.142,13	66.567,87	0,00	0,58	25.268,91	0,00	41.298,96

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SINFRA P2026222144





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
532+0,000	1,70	6,81	20,62	0,00	0,00	55.162,75	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
532+10,000	5,00	11,45	91,30	0,00	0,00	55.254,05	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
533+0,000	5,00	20,44	159,45	0,00	0,00	55.413,50	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
533+10,000	5,00	31,31	258,75	0,00	0,00	55.672,25	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
534+0,000	5,00	43,63	374,70	0,00	0,00	56.046,95	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
534+10,000	5,00	57,03	503,30	0,00	0,00	56.550,25	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
535+0,000	5,00	63,57	603,00	0,00	0,00	57.153,25	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
535+10,000	5,00	68,70	661,35	0,00	0,00	57.814,60	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
535+16,600	3,30	70,20	458,37	0,00	0,00	58.272,97	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
536+0,000	1,70	69,57	237,61	0,00	0,00	58.510,58	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
536+10,000	5,00	66,73	681,50	0,00	0,00	59.192,08	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
536+16,281	3,14	64,49	412,03	0,00	0,00	59.604,11	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
537+0,000	1,86	63,11	237,34	0,00	0,00	59.841,45	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
537+10,000	5,00	59,12	611,15	0,00	0,00	60.452,60	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
537+15,961	2,98	57,12	346,40	0,00	0,00	60.798,99	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
538+0,000	2,02	55,79	228,08	0,00	0,00	61.027,07	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
538+10,000	5,00	52,51	541,50	0,00	0,00	61.568,57	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
539+0,000	5,00	45,76	491,35	0,00	0,00	62.059,92	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
539+10,000	5,00	37,93	418,45	0,00	0,00	62.478,37	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
540+0,000	5,00	35,94	369,35	0,00	0,00	62.847,72	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
540+10,000	5,00	35,91	359,25	0,00	0,00	63.206,97	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
541+0,000	5,00	34,72	353,15	0,00	0,00	63.560,12	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
541+10,000	5,00	32,98	338,50	0,00	0,00	63.898,62	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
541+15,961	2,98	31,96	193,52	0,00	0,00	64.092,14	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
542+0,000	2,02	31,43	128,05	0,00	0,00	64.220,19	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
543+0,000	10,00	30,58	620,10	0,00	0,00	64.840,29	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
544+0,000	10,00	30,46	610,40	0,00	0,00	65.450,69	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
545+0,000	10,00	30,41	608,70	0,00	0,00	66.059,39	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
546+0,000	10,00	30,25	606,60	0,00	0,00	66.665,99	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
547+0,000	10,00	25,08	553,30	0,00	0,00	67.219,29	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
548+0,000	10,00	21,23	463,10	0,00	0,00	67.682,39	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
549+0,000	10,00	16,97	382,00	0,00	0,00	68.064,39	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
550+0,000	10,00	13,98	309,50	0,00	0,00	68.373,89	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
551+0,000	10,00	13,78	277,60	0,00	0,00	68.651,49	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
552+0,000	10,00	11,98	257,60	0,00	0,00	68.909,09	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
553+0,000	10,00	12,83	248,10	0,00	0,00	69.157,19	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
554+0,000	10,00	14,22	270,50	0,00	0,00	69.427,69	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
554+15,666	7,83	14,63	225,90	0,00	0,00	69.653,58	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
555+0,000	2,17	14,25	62,67	0,00	0,00	69.716,25	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
555+10,000	5,00	13,52	138,85	0,00	0,00	69.855,10	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
556+0,000	5,00	12,51	130,15	0,00	0,00	69.985,25	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
556+10,000	5,00	11,90	122,05	0,00	0,00	70.107,30	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
557+0,000	5,00	11,49	116,95	0,00	0,00	70.224,25	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
557+10,000	5,00	11,29	113,90	0,00	0,00	70.338,15	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
558+0,000	5,00	10,21	107,50	0,00	0,00	70.445,65	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
558+10,000	5,00	8,86	95,35	0,00	0,00	70.541,00	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
559+0,000	5,00	8,31	85,85	0,00	0,00	70.626,85	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
559+10,000	5,00	8,16	82,35	0,00	0,00	70.709,20	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
560+0,000	5,00	7,72	79,40	0,00	0,00	70.788,60	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
560+10,000	5,00	7,48	76,00	0,00	0,00	70.864,60	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
560+15,666	2,83	7,10	41,26	0,00	0,00	70.905,86	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
561+0,000	2,17	6,65	29,84	0,00	0,00	70.935,70	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
561+10,000	5,00	5,08	58,65	0,00	0,00	70.994,35	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
562+0,000	5,00	4,01	45,45	0,00	0,00	71.039,80	66.567,87	0,00	0,00	25.268,91	0,00	41.298,96
562+10,000	5,00	3,53	37,70	0,43	2,15	71.077,50	66.570,02	0,43	2,15	25.271,06	0,00	41.298,96
563+0,000	5,00	4,31	39,20	0,38	4,05	71.116,70	66.574,07	0,38	4,05	25.275,11	0,00	41.298,96
563+9,742	4,87	5,96	50,01	0,03	2,00	71.166,72	66.576,06	0,03	2,00	25.277,10	0,00	41.298,96
563+10,000	0,13	6,01	1,56	0,03	0,01	71.168,27	66.576,07	0,03	0,01	25.277,11	0,00	41.298,96
564+0,000	5,00	5,96	59,85	0,06	0,45	71.228,12	66.576,52	0,06	0,45	25.277,56	0,00	41.298,96
564+10,000	5,00	5,51	57,35	0,36	2,10	71.285,47	66.578,62	0,36	2,10	25.279,66	0,00	41.298,96

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
565+0,000	5,00	4,80	51,55	0,40	3,80	71.337,02	66.582,42	0,40	3,80	25.283,46	0,00	41.298,96
565+10,000	5,00	4,21	45,05	0,54	4,70	71.382,07	66.587,12	0,54	4,70	25.288,16	0,00	41.298,96
566+0,000	5,00	3,38	37,95	0,69	6,15	71.420,02	66.593,27	0,69	6,15	25.294,31	0,00	41.298,96
566+3,817	1,91	3,02	12,22	0,68	2,62	71.432,25	66.595,89	0,68	2,62	25.296,93	0,00	41.298,96
566+10,000	3,09	2,59	17,33	0,73	4,36	71.449,58	66.600,24	0,73	4,36	25.301,28	0,00	41.298,96
567+0,000	5,00	1,67	21,30	0,86	7,95	71.470,88	66.608,19	0,86	7,95	25.309,23	0,00	41.298,96
567+10,000	5,00	1,45	15,60	1,16	10,10	71.486,48	66.618,29	1,16	10,10	25.319,33	0,00	41.298,96
568+0,000	5,00	1,35	14,00	1,95	15,55	71.500,48	66.633,84	1,95	15,55	25.334,88	0,00	41.298,96
568+10,000	5,00	1,29	13,20	6,86	44,05	71.513,68	66.677,89	6,86	44,05	25.378,93	0,00	41.298,96
569+0,000	5,00	1,22	12,55	6,19	65,25	71.526,23	66.743,14	6,19	65,25	25.444,18	0,00	41.298,96
569+10,000	5,00	1,12	11,70	2,02	41,05	71.537,93	66.784,19	2,02	41,05	25.485,23	0,00	41.298,96
570+0,000	5,00	0,96	10,40	0,75	13,85	71.548,33	66.798,04	0,75	13,85	25.499,08	0,00	41.298,96
570+10,000	5,00	0,81	8,85	0,62	6,85	71.557,18	66.804,89	0,62	6,85	25.505,93	0,00	41.298,96
571+0,000	5,00	0,44	6,25	0,91	7,65	71.563,43	66.812,54	0,91	7,65	25.513,58	0,00	41.298,96
571+10,000	5,00	0,13	2,85	1,31	11,10	71.566,28	66.823,64	1,31	11,10	25.524,68	0,00	41.298,96
572+0,000	5,00	0,05	0,90	1,41	13,60	71.567,18	66.837,24	1,41	13,60	25.538,28	0,00	41.298,96
572+3,817	1,91	0,04	0,17	1,37	5,31	71.567,35	66.842,55	1,37	5,31	25.543,59	0,00	41.298,96
573+0,000	8,09	0,02	0,49	1,57	23,78	71.567,84	66.866,34	1,57	23,78	25.567,38	0,00	41.298,96
574+0,000	10,00	0,03	0,50	1,74	33,10	71.568,34	66.899,44	1,74	33,10	25.600,48	0,00	41.298,96
575+0,000	10,00	0,11	1,40	1,18	29,20	71.569,74	66.928,64	1,18	29,20	25.629,68	0,00	41.298,96
576+0,000	10,00	0,38	4,90	0,77	19,50	71.574,64	66.948,14	0,77	19,50	25.649,18	0,00	41.298,96
577+0,000	10,00	0,22	6,00	0,72	14,90	71.580,64	66.963,04	0,72	14,90	25.664,08	0,00	41.298,96
578+0,000	10,00	0,27	4,90	0,93	16,50	71.585,54	66.979,54	0,93	16,50	25.680,58	0,00	41.298,96
579+0,000	10,00	0,23	5,00	1,53	24,60	71.590,54	67.004,14	1,53	24,60	25.705,18	0,00	41.298,96
580+0,000	10,00	0,00	2,30	1,46	29,90	71.592,84	67.034,04	1,46	29,90	25.735,08	0,00	41.298,96
581+0,000	10,00	1,68	16,80	0,32	17,80	71.609,64	67.051,84	0,32	17,80	25.752,88	0,00	41.298,96
582+0,000	10,00	0,66	23,40	0,51	8,30	71.633,04	67.060,14	0,51	8,30	25.761,18	0,00	41.298,96
583+0,000	10,00	0,13	7,90	1,45	19,60	71.640,94	67.079,74	1,45	19,60	25.780,78	0,00	41.298,96
584+0,000	10,00	0,09	2,20	1,62	30,70	71.643,14	67.110,44	1,62	30,70	25.811,48	0,00	41.298,96
585+0,000	10,00	0,06	1,50	2,29	39,10	71.644,64	67.149,54	2,29	39,10	25.850,58	0,00	41.298,96

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
586+0,000	10,00	0,44	5,00	1,49	37,80	71.649,64	67.187,34	1,49	37,80	25.888,38	0,00	41.298,96
587+0,000	10,00	1,21	16,50	0,38	18,70	71.666,14	67.206,04	0,38	18,70	25.907,08	0,00	41.298,96
588+0,000	10,00	2,27	34,80	0,02	4,00	71.700,94	67.210,04	0,02	4,00	25.911,08	0,00	41.298,96
589+0,000	10,00	2,40	46,70	0,04	0,60	71.747,64	67.210,64	0,04	0,60	25.911,68	0,00	41.298,96
590+0,000	10,00	1,92	43,20	0,15	1,90	71.790,84	67.212,54	0,15	1,90	25.913,58	0,00	41.298,96
591+0,000	10,00	2,36	42,80	0,17	3,20	71.833,64	67.215,74	0,17	3,20	25.916,78	0,00	41.298,96
592+0,000	10,00	5,13	74,90	0,00	1,70	71.908,54	67.217,44	0,00	1,70	25.918,48	0,00	41.298,96
593+0,000	10,00	9,07	142,00	0,00	0,00	72.050,54	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
594+0,000	10,00	10,97	200,40	0,00	0,00	72.250,94	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
595+0,000	10,00	13,17	241,40	0,00	0,00	72.492,34	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
596+0,000	10,00	14,85	280,20	0,00	0,00	72.772,54	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
597+0,000	10,00	15,54	303,90	0,00	0,00	73.076,44	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
598+0,000	10,00	15,65	311,90	0,00	0,00	73.388,34	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
599+0,000	10,00	15,99	316,40	0,00	0,00	73.704,74	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
600+0,000	10,00	15,98	319,70	0,00	0,00	74.024,44	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
601+0,000	10,00	15,82	318,00	0,00	0,00	74.342,44	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
602+0,000	10,00	15,88	317,00	0,00	0,00	74.659,44	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
603+0,000	10,00	14,08	299,60	0,00	0,00	74.959,04	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
604+0,000	10,00	9,05	231,30	0,00	0,00	75.190,34	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
605+0,000	10,00	5,08	141,30	0,00	0,00	75.331,64	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
606+0,000	10,00	3,72	88,00	0,00	0,00	75.419,64	67.217,44	0,00	0,00	25.918,48	0,00	41.298,96
607+0,000	10,00	2,72	64,40	0,02	0,20	75.484,04	67.217,64	0,02	0,20	25.918,68	0,00	41.298,96
607+6,022	3,01	2,70	16,31	0,02	0,12	75.500,35	67.217,76	0,02	0,12	25.918,80	0,00	41.298,96
607+10,000	1,99	2,66	10,67	0,02	0,08	75.511,02	67.217,84	0,02	0,08	25.918,88	0,00	41.298,96
608+0,000	5,00	2,14	24,00	0,09	0,55	75.535,02	67.218,39	0,09	0,55	25.919,43	0,00	41.298,96
608+10,000	5,00	1,65	18,95	0,27	1,80	75.553,97	67.220,19	0,27	1,80	25.921,23	0,00	41.298,96
609+0,000	5,00	1,37	15,10	0,42	3,45	75.569,07	67.223,64	0,42	3,45	25.924,68	0,00	41.298,96
609+10,000	5,00	1,17	12,70	0,42	4,20	75.581,77	67.227,84	0,42	4,20	25.928,88	0,00	41.298,96
610+0,000	5,00	1,88	15,25	0,06	2,40	75.597,02	67.230,24	0,06	2,40	25.931,28	0,00	41.298,96
610+10,000	5,00	3,63	27,55	0,00	0,30	75.624,57	67.230,54	0,00	0,30	25.931,58	0,00	41.298,96

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
611+0,000	5,00	3,59	36,10	0,08	0,40	75.660,67	67.230,94	0,08	0,40	25.931,98	0,00	41.298,96
611+10,000	5,00	3,45	35,20	0,93	5,05	75.695,87	67.235,99	0,93	5,05	25.937,03	0,00	41.298,96
612+0,000	5,00	1,50	24,75	0,77	8,50	75.720,62	67.244,49	0,77	8,50	25.945,53	0,00	41.298,96
612+10,000	5,00	0,14	8,20	1,45	11,10	75.728,82	67.255,59	1,45	11,10	25.956,63	0,00	41.298,96
613+0,000	5,00	0,48	3,10	1,20	13,25	75.731,92	67.268,84	1,20	13,25	25.969,88	0,00	41.298,96
613+6,022	3,01	0,86	4,03	0,86	6,20	75.735,95	67.275,04	0,86	6,20	25.976,08	0,00	41.298,96
613+10,000	1,99	1,07	3,84	0,73	3,16	75.739,79	67.278,20	0,73	3,16	25.979,24	0,00	41.298,96
614+0,000	5,00	0,90	9,85	0,71	7,20	75.749,64	67.285,40	0,71	7,20	25.986,44	0,00	41.298,96
614+10,000	5,00	0,38	6,40	0,89	8,00	75.756,04	67.293,40	0,89	8,00	25.994,44	0,00	41.298,96
614+11,438	0,72	0,30	0,49	0,93	1,31	75.756,53	67.294,71	0,93	1,31	25.995,75	0,00	41.298,96
615+0,000	4,28	0,05	1,50	1,13	8,82	75.758,03	67.303,53	1,13	8,82	26.004,57	0,00	41.298,96
615+10,000	5,00	0,02	0,35	1,59	13,60	75.758,38	67.317,13	1,59	13,60	26.018,17	0,00	41.298,96
615+16,854	3,43	0,00	0,07	1,59	10,91	75.758,45	67.328,04	1,59	10,91	26.029,08	0,00	41.298,96
616+0,000	1,57	0,00	0,00	1,64	5,07	75.758,45	67.333,11	1,64	5,07	26.034,15	0,00	41.298,96
616+10,000	5,00	0,04	0,20	2,38	20,10	75.758,65	67.353,21	2,38	20,10	26.054,25	0,00	41.298,96
617+0,000	5,00	0,07	0,55	1,97	21,75	75.759,20	67.374,96	1,97	21,75	26.076,00	0,00	41.298,96
617+10,000	5,00	0,18	1,25	1,18	15,75	75.760,45	67.390,71	1,18	15,75	26.091,75	0,00	41.298,96
618+0,000	5,00	0,60	3,90	0,66	9,20	75.764,35	67.399,91	0,66	9,20	26.100,95	0,00	41.298,96
618+10,000	5,00	1,02	8,10	0,36	5,10	75.772,45	67.405,01	0,36	5,10	26.106,05	0,00	41.298,96
619+0,000	5,00	1,03	10,25	0,23	2,95	75.782,70	67.407,96	0,23	2,95	26.109,00	0,00	41.298,96
619+10,000	5,00	1,00	10,15	0,29	2,60	75.792,85	67.410,56	0,29	2,60	26.111,60	0,00	41.298,96
620+0,000	5,00	0,72	8,60	0,55	4,20	75.801,45	67.414,76	0,55	4,20	26.115,80	0,00	41.298,96
620+10,000	5,00	0,45	5,85	0,81	6,80	75.807,30	67.421,56	0,81	6,80	26.122,60	0,00	41.298,96
621+0,000	5,00	0,43	4,40	0,81	8,10	75.811,70	67.429,66	0,81	8,10	26.130,70	0,00	41.298,96
621+10,000	5,00	0,54	4,85	0,67	7,40	75.816,55	67.437,06	0,67	7,40	26.138,10	0,00	41.298,96
621+16,854	3,43	0,60	3,91	0,55	4,18	75.820,46	67.441,24	0,55	4,18	26.142,28	0,00	41.298,96
622+0,000	1,57	0,59	1,87	0,47	1,60	75.822,33	67.442,85	0,47	1,60	26.143,89	0,00	41.298,96
623+0,000	10,00	0,46	10,50	0,64	11,10	75.832,83	67.453,95	0,64	11,10	26.154,99	0,00	41.298,96
624+0,000	10,00	0,14	6,00	8,27	89,10	75.838,83	67.543,05	8,27	89,10	26.244,09	0,00	41.298,96
625+0,000	10,00	0,48	6,20	15,08	233,50	75.845,03	67.776,55	8,256	165,26	26.409,35	68,24	41.367,20

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
626+0,000	10,00	0,61	10,90	0,73	158,10	75.855,93	67.934,65	0,73	89,86	26.499,21	68,24	41.435,44
627+0,000	10,00	0,93	15,40	0,44	11,70	75.871,33	67.946,35	0,44	11,70	26.510,91	0,00	41.435,44
628+0,000	10,00	0,11	10,40	0,63	10,70	75.881,73	67.957,05	0,63	10,70	26.521,61	0,00	41.435,44
628+9,562	4,78	0,17	1,34	1,24	8,94	75.883,07	67.965,98	1,24	8,94	26.530,54	0,00	41.435,44
628+10,000	0,22	0,18	0,08	1,28	0,55	75.883,14	67.966,54	1,28	0,55	26.531,10	0,00	41.435,44
629+0,000	5,00	0,13	1,55	1,55	14,15	75.884,69	67.980,69	1,55	14,15	26.545,25	0,00	41.435,44
629+10,000	5,00	0,13	1,30	1,67	16,10	75.885,99	67.996,79	1,67	16,10	26.561,35	0,00	41.435,44
630+0,000	5,00	0,05	0,90	2,08	18,75	75.886,89	68.015,54	2,08	18,75	26.580,10	0,00	41.435,44
630+10,000	5,00	0,00	0,25	2,66	23,70	75.887,14	68.039,24	2,66	23,70	26.603,80	0,00	41.435,44
631+0,000	5,00	0,00	0,00	2,08	23,70	75.887,14	68.062,94	2,08	23,70	26.627,50	0,00	41.435,44
631+10,000	5,00	0,00	0,00	1,13	16,05	75.887,14	68.078,99	1,13	16,05	26.643,55	0,00	41.435,44
632+0,000	5,00	0,03	0,15	0,73	9,30	75.887,29	68.088,29	0,73	9,30	26.652,85	0,00	41.435,44
632+10,000	5,00	0,15	0,90	0,58	6,55	75.888,19	68.094,84	0,58	6,55	26.659,40	0,00	41.435,44
633+0,000	5,00	0,11	1,30	0,89	7,35	75.889,49	68.102,19	0,89	7,35	26.666,75	0,00	41.435,44
633+10,000	5,00	0,28	1,95	1,52	12,05	75.891,44	68.114,24	1,52	12,05	26.678,80	0,00	41.435,44
634+0,000	5,00	0,73	5,05	1,60	15,60	75.896,49	68.129,84	1,60	15,60	26.694,40	0,00	41.435,44
634+9,562	4,78	1,00	8,27	1,35	14,10	75.904,76	68.143,94	1,35	14,10	26.708,50	0,00	41.435,44
634+10,000	0,22	1,00	0,44	1,33	0,59	75.905,20	68.144,53	1,33	0,59	26.709,09	0,00	41.435,44
635+0,000	5,00	0,24	6,20	0,85	10,90	75.911,40	68.155,43	0,85	10,90	26.719,99	0,00	41.435,44
635+7,470	3,73	0,13	1,38	1,09	7,24	75.912,78	68.162,67	1,09	7,24	26.727,23	0,00	41.435,44
635+10,000	1,27	0,29	0,53	1,42	3,19	75.913,32	68.165,85	1,42	3,19	26.730,41	0,00	41.435,44
636+0,000	5,00	0,12	2,05	0,85	11,35	75.915,37	68.177,20	0,85	11,35	26.741,76	0,00	41.435,44
636+5,378	2,69	0,98	2,96	1,06	5,14	75.918,33	68.182,34	1,06	5,14	26.746,90	0,00	41.435,44
636+10,000	2,31	1,93	6,72	1,31	5,47	75.925,05	68.187,82	1,31	5,47	26.752,38	0,00	41.435,44
637+0,000	5,00	0,76	13,45	2,26	17,85	75.938,50	68.205,67	2,26	17,85	26.770,23	0,00	41.435,44
637+10,000	5,00	0,00	3,80	4,77	35,15	75.942,30	68.240,82	4,77	35,15	26.805,38	0,00	41.435,44
638+0,000	5,00	0,00	0,00	4,51	46,40	75.942,30	68.287,22	4,51	46,40	26.851,78	0,00	41.435,44
638+10,000	5,00	0,33	1,65	3,31	39,10	75.943,95	68.326,32	3,31	39,10	26.890,88	0,00	41.435,44
639+0,000	5,00	0,42	3,75	3,48	33,95	75.947,70	68.360,27	3,48	33,95	26.924,83	0,00	41.435,44
639+10,000	5,00	0,41	4,15	3,73	36,05	75.951,85	68.396,32	3,73	36,05	26.960,88	0,00	41.435,44

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SINFRA P2026222144





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m ²)	Volume de Corte (m ³)	Área de Aterro (m ²)	Volume Aterro (m ³)	Vol. Acum. Corte (m ³)	Vol. Acum. Aterro (m ³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
640+0,000	5,00	0,17	2,90	3,96	38,45	75.954,75	68.434,77	3,96	38,45	26.999,33	0,00	41.435,44
640+10,000	5,00	0,00	0,85	4,21	40,85	75.955,60	68.475,62	4,21	40,85	27.040,18	0,00	41.435,44
641+0,000	5,00	0,00	0,00	3,64	39,25	75.955,60	68.514,87	3,64	39,25	27.079,43	0,00	41.435,44
641+10,000	5,00	0,06	0,30	2,81	32,25	75.955,90	68.547,12	2,81	32,25	27.111,68	0,00	41.435,44
642+0,000	5,00	0,04	0,50	2,39	26,00	75.956,40	68.573,12	2,39	26,00	27.137,68	0,00	41.435,44
642+5,378	2,69	0,01	0,13	2,08	12,02	75.956,53	68.585,14	2,08	12,02	27.149,70	0,00	41.435,44
643+0,000	7,31	0,23	1,75	1,52	26,32	75.958,29	68.611,46	1,52	26,32	27.176,02	0,00	41.435,44
644+0,000	10,00	0,07	3,00	1,48	30,00	75.961,29	68.641,46	1,48	30,00	27.206,02	0,00	41.435,44
645+0,000	10,00	0,22	2,90	1,23	27,10	75.964,49	68.668,56	1,23	27,10	27.233,12	0,00	41.435,44
646+0,000	10,00	1,08	13,00	0,00	12,30	75.977,19	68.680,86	0,00	12,30	27.245,42	0,00	41.435,44
646+17,787	8,89	2,47	31,56	0,00	0,00	76.008,75	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
647+0,000	1,11	2,77	5,82	0,00	0,00	76.014,56	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
647+10,000	5,00	3,98	33,75	0,00	0,00	76.048,31	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
648+0,000	5,00	5,28	46,30	0,00	0,00	76.094,61	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
648+10,000	5,00	6,51	58,95	0,00	0,00	76.153,56	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
649+0,000	5,00	6,87	66,90	0,00	0,00	76.220,46	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
649+10,000	5,00	6,95	69,10	0,00	0,00	76.289,56	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
650+0,000	5,00	8,15	75,50	0,00	0,00	76.365,06	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
650+10,000	5,00	9,54	88,45	0,00	0,00	76.453,51	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
651+0,000	5,00	10,86	102,00	0,00	0,00	76.555,51	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
651+10,000	5,00	12,20	115,30	0,00	0,00	76.670,81	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
652+0,000	5,00	12,21	122,05	0,00	0,00	76.792,86	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
652+10,000	5,00	11,99	121,00	0,00	0,00	76.913,86	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
653+0,000	5,00	12,68	123,35	0,00	0,00	77.037,21	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
653+10,000	5,00	13,51	130,95	0,00	0,00	77.168,16	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
653+17,787	3,89	12,82	102,42	0,00	0,00	77.270,59	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
654+0,000	1,11	12,45	28,05	0,00	0,00	77.298,64	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
654+10,000	5,00	11,07	117,60	0,00	0,00	77.416,24	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
655+0,000	5,00	10,32	106,95	0,00	0,00	77.523,19	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
655+10,000	5,00	9,02	96,70	0,00	0,00	77.619,89	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
656+0,000	5,00	7,42	82,20	0,00	0,00	77.702,09	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
656+10,000	5,00	5,74	65,80	0,00	0,00	77.767,89	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
657+0,000	5,00	3,60	46,70	0,00	0,00	77.814,59	68.680,86	0,00	0,00	27.245,42	0,00	41.435,44
657+10,000	5,00	1,34	24,70	0,06	0,30	77.839,29	68.681,16	0,06	0,30	27.245,72	0,00	41.435,44
658+0,000	5,00	0,31	8,25	0,23	1,45	77.847,54	68.682,61	0,23	1,45	27.247,17	0,00	41.435,44
658+5,465	2,73	0,55	2,35	0,94	3,19	77.849,88	68.685,80	0,94	3,19	27.250,36	0,00	41.435,44
658+10,000	2,27	0,89	3,27	1,56	5,68	77.853,15	68.691,47	1,56	5,68	27.256,04	0,00	41.435,44
659+0,000	5,00	0,63	7,60	1,61	15,85	77.860,75	68.707,32	1,61	15,85	27.271,89	0,00	41.435,44
659+10,000	5,00	0,74	6,85	1,35	14,80	77.867,60	68.722,12	1,35	14,80	27.286,69	0,00	41.435,44
660+0,000	5,00	0,84	7,90	1,50	14,25	77.875,50	68.736,37	1,50	14,25	27.300,94	0,00	41.435,44
660+10,000	5,00	0,90	8,70	1,93	17,15	77.884,20	68.753,52	1,93	17,15	27.318,09	0,00	41.435,44
661+0,000	5,00	1,22	10,60	2,20	20,65	77.894,80	68.774,17	2,20	20,65	27.338,74	0,00	41.435,44
661+10,000	5,00	1,50	13,60	2,12	21,60	77.908,40	68.795,77	2,12	21,60	27.360,34	0,00	41.435,44
662+0,000	5,00	1,56	15,30	2,02	20,70	77.923,70	68.816,47	2,02	20,70	27.381,04	0,00	41.435,44
662+10,000	5,00	1,56	15,60	2,01	20,15	77.939,30	68.836,62	2,01	20,15	27.401,19	0,00	41.435,44
662+13,142	1,57	1,53	4,85	2,03	6,34	77.944,15	68.842,97	2,03	6,34	27.407,53	0,00	41.435,44
663+0,000	3,43	1,44	10,19	1,81	13,17	77.954,34	68.856,14	1,81	13,17	27.420,70	0,00	41.435,44
663+10,000	5,00	1,28	13,60	1,69	17,50	77.967,94	68.873,64	1,69	17,50	27.438,20	0,00	41.435,44
664+0,000	5,00	1,23	12,55	1,44	15,65	77.980,49	68.889,29	1,44	15,65	27.453,85	0,00	41.435,44
664+10,000	5,00	1,15	11,90	0,95	11,95	77.992,39	68.901,24	0,95	11,95	27.465,80	0,00	41.435,44
665+0,000	5,00	1,14	11,45	0,60	7,75	78.003,84	68.908,99	0,60	7,75	27.473,55	0,00	41.435,44
665+10,000	5,00	1,16	11,50	0,43	5,15	78.015,34	68.914,14	0,43	5,15	27.478,70	0,00	41.435,44
666+0,000	5,00	1,01	10,85	0,43	4,30	78.026,19	68.918,44	0,43	4,30	27.483,00	0,00	41.435,44
666+10,000	5,00	0,91	9,60	0,59	5,10	78.035,79	68.923,54	0,59	5,10	27.488,10	0,00	41.435,44
667+0,000	5,00	0,76	8,35	0,70	6,45	78.044,14	68.929,99	0,70	6,45	27.494,55	0,00	41.435,44
667+10,000	5,00	0,75	7,55	0,68	6,90	78.051,69	68.936,89	0,68	6,90	27.501,45	0,00	41.435,44
668+0,000	5,00	0,53	6,40	0,67	6,75	78.058,09	68.943,64	0,67	6,75	27.508,20	0,00	41.435,44
668+10,000	5,00	0,29	4,10	0,73	7,00	78.062,19	68.950,64	0,73	7,00	27.515,20	0,00	41.435,44
669+0,000	5,00	0,21	2,50	0,89	8,10	78.064,69	68.958,74	0,89	8,10	27.523,30	0,00	41.435,44
669+10,000	5,00	0,18	1,95	1,06	9,75	78.066,64	68.968,49	1,06	9,75	27.533,05	0,00	41.435,44

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
669+13,142	1,57	0,18	0,57	1,14	3,45	78.067,21	68.971,94	1,14	3,45	27.536,50	0,00	41.435,44
670+0,000	3,43	0,15	1,13	1,61	9,43	78.068,34	68.981,38	1,61	9,43	27.545,94	0,00	41.435,44
671+0,000	10,00	0,05	2,00	3,12	47,30	78.070,34	69.028,68	3,12	47,30	27.593,24	0,00	41.435,44
672+0,000	10,00	0,00	0,50	4,70	78,20	78.070,84	69.106,88	4,70	78,20	27.671,44	0,00	41.435,44
673+0,000	10,00	0,00	0,00	5,31	100,10	78.070,84	69.206,98	5,31	100,10	27.771,54	0,00	41.435,44
674+0,000	10,00	0,00	0,00	5,52	108,30	78.070,84	69.315,28	5,52	108,30	27.879,84	0,00	41.435,44
675+0,000	10,00	0,00	0,00	5,36	108,80	78.070,84	69.424,08	5,36	108,80	27.988,64	0,00	41.435,44
676+0,000	10,00	0,00	0,00	5,38	107,40	78.070,84	69.531,48	5,38	107,40	28.096,04	0,00	41.435,44
677+0,000	10,00	0,00	0,00	7,04	124,20	78.070,84	69.655,68	7,04	124,20	28.220,24	0,00	41.435,44
678+0,000	10,00	0,00	0,00	8,25	152,90	78.070,84	69.808,58	8,25	152,90	28.373,14	0,00	41.435,44
679+0,000	10,00	0,00	0,00	9,03	172,80	78.070,84	69.981,38	8,256	165,06	28.538,20	7,74	41.443,18
680+0,000	10,00	0,00	0,00	9,23	182,60	78.070,84	70.163,98	8,256	165,12	28.703,32	17,48	41.460,66
681+0,000	10,00	0,00	0,00	8,42	176,50	78.070,84	70.340,48	8,42	166,76	28.870,08	9,74	41.470,40
682+0,000	10,00	0,00	0,00	6,71	151,30	78.070,84	70.491,78	6,71	151,30	29.021,38	0,00	41.470,40
683+0,000	10,00	0,02	0,20	4,62	113,30	78.071,04	70.605,08	4,62	113,30	29.134,68	0,00	41.470,40
684+0,000	10,00	0,14	1,60	3,35	79,70	78.072,64	70.684,78	3,35	79,70	29.214,38	0,00	41.470,40
685+0,000	10,00	0,28	4,20	2,24	55,90	78.076,84	70.740,68	2,24	55,90	29.270,28	0,00	41.470,40
686+0,000	10,00	0,94	12,20	1,64	38,80	78.089,04	70.779,48	1,64	38,80	29.309,08	0,00	41.470,40
686+4,707	2,35	1,09	4,77	1,54	7,47	78.093,81	70.786,95	1,54	7,47	29.316,55	0,00	41.470,40
686+10,000	2,65	1,29	6,31	1,16	7,16	78.100,12	70.794,10	1,16	7,16	29.323,70	0,00	41.470,40
687+0,000	5,00	1,60	14,45	1,01	10,85	78.114,57	70.804,95	1,01	10,85	29.334,55	0,00	41.470,40
687+10,000	5,00	1,87	17,35	1,09	10,50	78.131,92	70.815,45	1,09	10,50	29.345,05	0,00	41.470,40
688+0,000	5,00	1,95	19,10	1,05	10,70	78.151,02	70.826,15	1,05	10,70	29.355,75	0,00	41.470,40
688+10,000	5,00	2,19	20,70	0,77	9,10	78.171,72	70.835,25	0,77	9,10	29.364,85	0,00	41.470,40
689+0,000	5,00	2,91	25,50	0,53	6,50	78.197,22	70.841,75	0,53	6,50	29.371,35	0,00	41.470,40
689+10,000	5,00	3,98	34,45	0,23	3,80	78.231,67	70.845,55	0,23	3,80	29.375,15	0,00	41.470,40
690+0,000	5,00	2,36	31,70	0,35	2,90	78.263,37	70.848,45	0,35	2,90	29.378,05	0,00	41.470,40
690+10,000	5,00	0,16	12,60	2,02	11,85	78.275,97	70.860,30	2,02	11,85	29.389,90	0,00	41.470,40
691+0,000	5,00	0,00	0,80	4,30	31,60	78.276,77	70.891,90	4,30	31,60	29.421,50	0,00	41.470,40
691+10,000	5,00	0,00	0,00	5,27	47,85	78.276,77	70.939,75	5,27	47,85	29.469,35	0,00	41.470,40

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
692+0,000	5,00	0,00	0,00	9,80	75,35	78.276,77	71.015,10	8,256	67,63	29.536,98	7,72	41.478,12
692+10,000	5,00	0,00	0,00	16,00	129,00	78.276,77	71.144,10	8,256	82,56	29.619,54	46,44	41.524,56
693+0,000	5,00	0,00	0,00	12,24	141,20	78.276,77	71.285,30	8,256	82,56	29.702,10	58,64	41.583,20
693+10,000	5,00	0,03	0,15	5,23	87,35	78.276,92	71.372,65	5,23	67,43	29.769,53	19,92	41.603,12
694+0,000	5,00	0,02	0,25	3,28	42,55	78.277,17	71.415,20	3,28	42,55	29.812,08	0,00	41.603,12
694+10,000	5,00	0,10	0,60	3,16	32,20	78.277,77	71.447,40	3,16	32,20	29.844,28	0,00	41.603,12
694+13,278	1,64	0,10	0,33	3,16	10,36	78.278,09	71.457,77	3,16	10,36	29.854,65	0,00	41.603,12
695+0,000	3,36	0,07	0,57	3,51	22,41	78.278,66	71.480,18	3,51	22,41	29.877,06	0,00	41.603,12
695+10,000	5,00	0,03	0,50	4,16	38,35	78.279,16	71.518,53	4,16	38,35	29.915,41	0,00	41.603,12
696+0,000	5,00	0,15	0,90	3,12	36,40	78.280,06	71.554,93	3,12	36,40	29.951,81	0,00	41.603,12
696+10,000	5,00	0,55	3,50	1,47	22,95	78.283,56	71.577,88	1,47	22,95	29.974,76	0,00	41.603,12
697+0,000	5,00	0,58	5,65	1,15	13,10	78.289,21	71.590,98	1,15	13,10	29.987,86	0,00	41.603,12
697+10,000	5,00	0,53	5,55	1,58	13,65	78.294,76	71.604,63	1,58	13,65	30.001,51	0,00	41.603,12
698+0,000	5,00	2,41	14,70	0,73	11,55	78.309,46	71.616,18	0,73	11,55	30.013,06	0,00	41.603,12
698+10,000	5,00	4,71	35,60	0,72	7,25	78.345,06	71.623,43	0,72	7,25	30.020,31	0,00	41.603,12
699+0,000	5,00	2,81	37,60	0,97	8,45	78.382,66	71.631,88	0,97	8,45	30.028,76	0,00	41.603,12
699+10,000	5,00	0,90	18,55	0,99	9,80	78.401,21	71.641,68	0,99	9,80	30.038,56	0,00	41.603,12
700+0,000	5,00	1,11	10,05	0,93	9,60	78.411,26	71.651,28	0,93	9,60	30.048,16	0,00	41.603,12
700+10,000	5,00	2,13	16,20	0,67	8,00	78.427,46	71.659,28	0,67	8,00	30.056,16	0,00	41.603,12
701+0,000	5,00	1,70	19,15	0,62	6,45	78.446,61	71.665,73	0,62	6,45	30.062,61	0,00	41.603,12
701+10,000	5,00	0,79	12,45	0,53	5,75	78.459,06	71.671,48	0,53	5,75	30.068,36	0,00	41.603,12
702+0,000	5,00	0,78	7,85	0,75	6,40	78.466,91	71.677,88	0,75	6,40	30.074,76	0,00	41.603,12
702+10,000	5,00	0,81	7,95	0,77	7,60	78.474,86	71.685,48	0,77	7,60	30.082,36	0,00	41.603,12
703+0,000	5,00	0,81	8,10	0,79	7,80	78.482,96	71.693,28	0,79	7,80	30.090,16	0,00	41.603,12
703+1,848	0,92	0,57	1,27	1,82	2,40	78.484,23	71.695,68	1,82	2,40	30.092,56	0,00	41.603,12
704+0,000	9,08	0,28	7,72	1,83	33,14	78.491,95	71.728,82	1,83	33,14	30.125,70	0,00	41.603,12
705+0,000	10,00	0,19	4,70	1,79	36,20	78.496,65	71.765,02	1,79	36,20	30.161,90	0,00	41.603,12
706+0,000	10,00	0,38	5,70	1,52	33,10	78.502,35	71.798,12	1,52	33,10	30.195,00	0,00	41.603,12
707+0,000	10,00	0,60	9,80	1,24	27,60	78.512,15	71.825,72	1,24	27,60	30.222,60	0,00	41.603,12
707+18,126	9,06	0,73	12,05	1,24	22,47	78.524,20	71.848,19	1,24	22,47	30.245,07	0,00	41.603,12

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Distância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
708+0,000	0,94	0,74	1,38	1,20	2,29	78.525,58	71.850,48	1,20	2,29	30.247,37	0,00	41.603,12
708+10,000	5,00	0,90	8,20	0,93	10,65	78.533,78	71.861,13	0,93	10,65	30.258,02	0,00	41.603,12
709+0,000	5,00	1,23	10,65	0,68	8,05	78.544,43	71.869,18	0,68	8,05	30.266,07	0,00	41.603,12
709+10,000	5,00	1,71	14,70	0,48	5,80	78.559,13	71.874,98	0,48	5,80	30.271,87	0,00	41.603,12
710+0,000	5,00	1,84	17,75	0,43	4,55	78.576,88	71.879,53	0,43	4,55	30.276,42	0,00	41.603,12
710+10,000	5,00	1,92	18,80	0,37	4,00	78.595,68	71.883,53	0,37	4,00	30.280,42	0,00	41.603,12
711+0,000	5,00	1,99	19,55	0,33	3,50	78.615,23	71.887,03	0,33	3,50	30.283,92	0,00	41.603,12
711+10,000	5,00	2,08	20,35	0,24	2,85	78.635,58	71.889,88	0,24	2,85	30.286,77	0,00	41.603,12
712+0,000	5,00	1,89	19,85	0,12	1,80	78.655,43	71.891,68	0,12	1,80	30.288,57	0,00	41.603,12
712+10,000	5,00	1,98	19,35	0,10	1,10	78.674,78	71.892,78	0,10	1,10	30.289,67	0,00	41.603,12
713+0,000	5,00	2,15	20,65	0,22	1,60	78.695,43	71.894,38	0,22	1,60	30.291,27	0,00	41.603,12
713+10,000	5,00	2,39	22,70	0,27	2,45	78.718,13	71.896,83	0,27	2,45	30.293,72	0,00	41.603,12
714+0,000	5,00	2,22	23,05	0,15	2,10	78.741,18	71.898,93	0,15	2,10	30.295,82	0,00	41.603,12
714+10,000	5,00	2,17	21,95	0,13	1,40	78.763,13	71.900,33	0,13	1,40	30.297,22	0,00	41.603,12
715+0,000	5,00	2,33	22,50	0,12	1,25	78.785,63	71.901,58	0,12	1,25	30.298,47	0,00	41.603,12
715+10,000	5,00	2,41	23,70	0,13	1,25	78.809,33	71.902,83	0,13	1,25	30.299,72	0,00	41.603,12
716+0,000	5,00	2,58	24,95	0,18	1,55	78.834,28	71.904,38	0,18	1,55	30.301,27	0,00	41.603,12
716+10,000	5,00	2,54	25,60	0,24	2,10	78.859,88	71.906,48	0,24	2,10	30.303,37	0,00	41.603,12
717+0,000	5,00	2,32	24,30	0,21	2,25	78.884,18	71.908,73	0,21	2,25	30.305,62	0,00	41.603,12
717+10,000	5,00	2,14	22,30	0,15	1,80	78.906,48	71.910,53	0,15	1,80	30.307,42	0,00	41.603,12
718+0,000	5,00	1,44	17,90	0,44	2,95	78.924,38	71.913,48	0,44	2,95	30.310,37	0,00	41.603,12
718+10,000	5,00	0,58	10,10	0,96	7,00	78.934,48	71.920,48	0,96	7,00	30.317,37	0,00	41.603,12
719+0,000	5,00	0,26	4,20	1,07	10,15	78.938,68	71.930,63	1,07	10,15	30.327,52	0,00	41.603,12
719+10,000	5,00	0,16	2,10	1,09	10,80	78.940,78	71.941,43	1,09	10,80	30.338,32	0,00	41.603,12
720+0,000	5,00	0,08	1,20	1,08	10,85	78.941,98	71.952,28	1,08	10,85	30.349,17	0,00	41.603,12
720+10,000	5,00	0,20	1,40	0,85	9,65	78.943,38	71.961,93	0,85	9,65	30.358,82	0,00	41.603,12
721+0,000	5,00	0,23	2,15	0,73	7,90	78.945,53	71.969,83	0,73	7,90	30.366,72	0,00	41.603,12
721+10,000	5,00	0,00	1,15	0,67	7,00	78.946,68	71.976,83	0,67	7,00	30.373,72	0,00	41.603,12
721+19,831	4,92	0,00	0,00	1,10	8,71	78.946,68	71.985,54	1,10	8,71	30.382,42	0,00	41.603,12
722+0,000	0,08	0,00	0,00	1,11	0,18	78.946,68	71.985,72	1,11	0,18	30.382,60	0,00	41.603,12

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SINFRA P202622214A





Cálculo de Volumes

Estaca	Semi Dis-tância (m)	Área de Corte (m²)	Volume de Corte (m³)	Área de Aterro (m²)	Volume Aterro (m³)	Vol. Acum. Corte (m³)	Vol. Acum. Aterro (m³)	Área 100% intermediário	Volume Intermediário	Vol. Acum. Intermediário	Volume Normal	Vol. Acum. Normal
722+10,000	5,00	0,00	0,00	1,66	13,85	78.946,68	71.999,57	1,66	13,85	30.396,45	0,00	41.603,12
723+0,000	5,00	0,00	0,00	2,02	18,40	78.946,68	72.017,97	2,02	18,40	30.414,85	0,00	41.603,12
723+10,000	5,00	0,00	0,00	2,53	22,75	78.946,68	72.040,72	2,53	22,75	30.437,60	0,00	41.603,12
724+0,000	5,00	0,00	0,00	3,18	28,55	78.946,68	72.069,27	3,18	28,55	30.466,15	0,00	41.603,12
724+10,000	5,00	0,00	0,00	3,84	35,10	78.946,68	72.104,37	3,84	35,10	30.501,25	0,00	41.603,12
725+0,000	5,00	0,00	0,00	3,96	39,00	78.946,68	72.143,37	3,96	39,00	30.540,25	0,00	41.603,12
725+10,000	5,00	0,00	0,00	3,95	39,55	78.946,68	72.182,92	3,95	39,55	30.579,80	0,00	41.603,12
726+0,000	5,00	0,00	0,00	3,85	39,00	78.946,68	72.221,92	3,85	39,00	30.618,80	0,00	41.603,12
726+10,000	5,00	0,00	0,00	3,96	39,05	78.946,68	72.260,97	3,96	39,05	30.657,85	0,00	41.603,12
727+0,000	5,00	0,00	0,00	5,12	45,40	78.946,68	72.306,37	5,12	45,40	30.703,25	0,00	41.603,12
727+10,000	5,00	0,00	0,00	6,99	60,55	78.946,68	72.366,92	6,99	60,55	30.763,80	0,00	41.603,12
728+0,000	5,00	0,00	0,00	5,13	60,60	78.946,68	72.427,52	5,13	60,60	30.824,40	0,00	41.603,12
728+10,000	5,00	0,25	1,25	2,03	35,80	78.947,93	72.463,32	2,03	35,80	30.860,20	0,00	41.603,12
729+0,000	5,00	0,25	2,50	2,15	20,90	78.950,43	72.484,22	2,15	20,90	30.881,10	0,00	41.603,12
729+10,000	5,00	0,00	1,25	3,51	28,30	78.951,68	72.512,52	3,51	28,30	30.909,40	0,00	41.603,12
730+0,000	5,00	0,00	0,00	3,39	34,50	78.951,68	72.547,02	3,39	34,50	30.943,90	0,00	41.603,12
730+10,000	5,00	0,16	0,80	2,47	29,30	78.952,48	72.576,32	2,47	29,30	30.973,20	0,00	41.603,12
731+0,000	5,00	1,17	6,65	1,07	17,70	78.959,13	72.594,02	1,07	17,70	30.990,90	0,00	41.603,12
731+10,000	5,00	3,14	21,55	0,24	6,55	78.980,68	72.600,57	0,24	6,55	30.997,45	0,00	41.603,12
732+0,000	5,00	3,36	32,50	0,20	2,20	79.013,18	72.602,77	0,20	2,20	30.999,65	0,00	41.603,12
732+10,000	5,00	2,83	30,95	0,31	2,55	79.044,13	72.605,32	0,31	2,55	31.002,20	0,00	41.603,12
733+0,000	5,00	3,29	30,60	0,16	2,35	79.074,73	72.607,67	0,16	2,35	31.004,55	0,00	41.603,12
733+10,000	5,00	4,22	37,55	0,02	0,90	79.112,28	72.608,57	0,02	0,90	31.005,45	0,00	41.603,12
734+0,000	5,00	4,17	41,95	0,01	0,15	79.154,23	72.608,72	0,01	0,15	31.005,60	0,00	41.603,12
734+10,000	5,00	3,63	39,00	0,02	0,15	79.193,23	72.608,87	0,02	0,15	31.005,75	0,00	41.603,12
735+0,000	5,00	3,69	36,60	0,00	0,10	79.229,83	72.608,97	0,00	0,10	31.005,85	0,00	41.603,12
735+10,000	5,00	3,89	37,90	0,00	0,00	79.267,73	72.608,97	0,00	0,00	31.005,85	0,00	41.603,12
736+0,000	5,00	5,11	45,00	0,00	0,00	79.312,73	72.608,97	0,00	0,00	31.005,85	0,00	41.603,12
736+1,536	0,77	4,14	7,12	0,00	0,00	79.319,86	72.608,97	0,00	0,00	31.005,85	0,00	41.603,12
737+0,000	9,23	7,46	107,07	0,00	0,00	79.426,92	72.608,97	0,00	0,00	31.005,85	0,00	41.603,12

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SINFRA P202622214A





Cálculo de Volumes

<u>Estaca</u>	<u>Semi Dis-tância (m)</u>	<u>Área de Corte (m²)</u>	<u>Volume de Corte (m³)</u>	<u>Área de Aterro (m²)</u>	<u>Volume Aterro (m³)</u>	<u>Vol. Acum. Corte (m³)</u>	<u>Vol. Acum. Aterro (m³)</u>	<u>Área 100% intermediário</u>	<u>Volume Intermediário</u>	<u>Vol. Acum. Intermediário</u>	<u>Volume Normal</u>	<u>Vol. Acum. Normal</u>
738+0,000	10,00	9,94	174,00	0,00	0,00	79.600,92	72.608,97	0,00	0,00	31.005,85	0,00	41.603,12
739+0,000	10,00	9,76	197,00	0,00	0,00	79.797,92	72.608,97	0,00	0,00	31.005,85	0,00	41.603,12
740+0,000	10,00	9,32	190,80	0,00	0,00	79.988,72	72.608,97	0,00	0,00	31.005,85	0,00	41.603,12
740+13,031	6,52	7,83	111,82	0,00	0,00	80.100,54	72.608,97	0,00	0,00	31.005,85	0,00	41.603,12



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4. A DE SERVIÇO DE TERRAPLENAGEM



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SINFRACAP202622214A





Nota de Serviço de Terraplenagem																								
Lado Esquerdo									Eixo							Lado Direito								
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)
-7.156	182.664	-0.727	-6.430	181.937	-5.00	181.980	-3.00	0+0.000			182.575	182.130	182.575	-0.445	5.00	182.105	-0.51	6.43	182.062	7.030	182.662	-0.600		
-7.121	182.673	-0.691	-6.430	181.982	-5.00	182.025	-3.00	0+9.638	TS		182.620	182.175	182.670	-0.495	5.00	182.175	0.00	6.43	182.132	7.012	182.714	-0.582		
-7.121	182.675	-0.691	-6.430	181.984	-5.00	182.026	-3.00	0+10.000			182.621	182.176	182.674	-0.498	5.00	182.176	0.00	6.43	182.134	7.012	182.715	-0.581		
-7.115	182.715	-0.685	-6.430	182.030	-5.00	182.073	-3.00	1+0.000			182.668	182.223	182.772	-0.549	5.00	182.250	0.55	6.43	182.207	6.998	182.775	-0.568		
-7.115	182.761	-0.685	-6.430	182.076	-5.00	182.119	-3.00	1+10.000			182.714	182.269	182.872	-0.603	5.00	182.296	0.55	6.43	182.253	6.998	182.821	-0.568		
-7.244	182.936	-0.814	-6.430	182.122	-5.00	182.165	-3.00	2+0.000			182.760	182.315	182.974	-0.659	5.00	182.395	1.60	6.43	182.352	7.145	183.067	-0.715		
-7.244	182.982	-0.814	-6.430	182.168	-5.00	182.211	-3.00	2+10.000			182.806	182.361	183.063	-0.702	5.00	182.441	1.60	6.43	182.398	7.145	183.113	-0.715		
-7.232	183.016	-0.802	-6.430	182.214	-5.00	182.257	-3.00	3+0.000			182.852	182.407	183.150	-0.743	5.00	182.540	2.66	6.43	182.497	7.123	183.189	-0.692		
-7.232	183.062	-0.802	-6.430	182.260	-5.00	182.303	-3.00	3+10.000			182.898	182.453	183.274	-0.821	5.00	182.586	2.66	6.43	182.543	7.123	183.235	-0.692		
-7.482	183.322	-1.051	-6.430	182.271	-5.00	182.314	-3.71	4+0.000			182.944	182.499	183.397	-0.898	5.00	182.685	3.71	6.43	182.642	7.347	183.558	-0.916		
-7.482	183.368	-1.051	-6.430	182.317	-5.00	182.360	-3.71	4+10.000			182.990	182.545	183.584	-1.039	5.00	182.731	3.71	6.43	182.688	7.347	183.604	-0.916		
-7.767	183.647	-1.337	-6.430	182.310	-5.00	182.353	-4.76	5+0.000			183.036	182.591	183.762	-1.171	5.00	182.830	4.76	6.43	182.787	7.378	183.734	-0.947		
-7.767	183.693	-1.337	-6.430	182.356	-5.00	182.399	-4.76	5+10.000			183.082	182.637	183.652	-1.015	5.00	182.876	4.76	6.43	182.833	7.378	183.780	-0.947		
-7.582	183.501	-1.152	-6.430	182.349	-5.00	182.392	-5.80	5+19.638	SC		183.127	182.682	183.548	-0.866	5.00	182.972	5.80	6.43	182.929	7.296	183.795	-0.866		
-7.579	183.499	-1.148	-6.430	182.351	-5.00	182.393	-5.80	6+0.000			183.128	182.683	183.543	-0.860	5.00	182.973	5.80	6.43	182.931	7.294	183.794	-0.863		
-7.529	183.496	-1.100	-6.430	182.396	-5.00	182.439	-5.80	6+9.945			183.174	182.729	183.299	-0.570	5.00	183.019	5.80	6.43	182.976	7.143	183.689	-0.713		
-7.529	183.496	-1.099	-6.430	182.397	-5.00	182.440	-5.80	6+10.000			183.175	182.730	183.297	-0.567	5.00	183.020	5.80	6.43	182.977	7.143	183.690	-0.713		
-7.471	183.484	-1.041	-6.430	182.443	-5.00	182.486	-5.80	7+0.000			183.221	182.776	183.025	-0.249	5.00	183.066	5.80	6.43	183.023	6.946	183.539	-0.516		
-7.464	183.478	-1.034	-6.430	182.444	-5.00	182.487	-5.80	7+0.251	CS		183.222	182.777	183.023	-0.246	5.00	183.067	5.80	6.43	183.024	6.938	183.531	-0.507		
-7.464	183.523	-1.034	-6.430	182.489	-5.00	182.532	-5.80	7+10.000			183.267	182.822	182.953	-0.131	5.00	183.112	5.80	6.43	183.069	6.938	183.576	-0.507		
-6.521	182.678	-0.091	-6.430	182.587	-5.00	182.630	-4.76	8+0.000			183.313	182.868	182.874	-0.006	5.00	183.106	4.76	6.43	183.063	6.563	182.974	0.089		
-6.521	182.724	-0.091	-6.430	182.633	-5.00	182.676	-4.76	8+10.000			183.359	182.914	182.612	0.302	5.00	183.152	4.76	6.43	183.109	6.563	183.020	0.089		
-7.262	182.178	0.554	-6.430	182.732	-5.00	182.775	-3.70	9+0.000			183.405	182.960	182.360	0.600	5.00	183.145	3.70	6.43	183.102	6.793	182.860	0.242		
-7.262	182.224	0.554	-6.430	182.778	-5.00	182.821	-3.70	9+10.000			183.451	183.006	182.111	0.895	5.00	183.191	3.70	6.43	183.148	6.793	182.906	0.242		
-8.245	181.650	1.209	-6.430	182.859	-5.00	182.902	-3.00	10+0.000			183.497	183.052	181.872	1.180	5.00	183.185	2.65	6.43	183.142	7.238	182.603	0.539		
-8.245	181.696	1.209	-6.430	182.905	-5.00	182.948	-3.00	10+10.000			183.543	183.098	181.846	1.252	5.00	183.231	2.65	6.43	183.188	7.238	182.649	0.539		
-8.675	181.455	1.496	-6.430	182.951	-5.00	182.994	-3.00	11+0.000			183.589	183.144	181.825	1.319	5.00	183.224	1.60	6.43	183.181	8.147	182.037	1.144		
-8.675	181.501	1.497	-6.430	182.998	-5.00	183.040	-3.00	11+10.000			183.635	183.190	181.785	1.405	5.00	183.270	1.60	6.43	183.227	8.147	182.083	1.144		
-9.221	181.183	1.861	-6.430	183.044	-5.00	183.087	-3.00	12+0.000			183.682	183.237	181.750	1.487	5.00	183.264	0.54	6.43	183.221	8.399	181.908	1.313		
-9.221	181.229	1.861	-6.430	183.090	-5.00	183.133	-3.00	12+10.000			183.728	183.283	181.778	1.505	5.00	183.310	0.54	6.43	183.267	8.399	181.954	1.313		
-9.242	181.216	1.875	-6.430	183.091	-5.00	183.134	-3.00	12+10.251	ST		183.729	183.284	181.778	1.506	5.00	183.284	0.00	6.43	183.241	8.507	181.857	1.384		
-9.258	181.250	1.886	-6.430	183.136	-5.00	183.179	-3.00	13+0.000			183.774	183.329	181.809	1.520	5.00	183.303	-0.51	6.43	183.260	8.614	181.804	1.456		
-9.773	180.999	2.229	-6.430	183.228	-5.00	183.271	-3.00	14+0.000			183.866	183.421	182.325	1.096	5.00	183.342	-1.57	6.43	183.300	9.090	181.526	1.774		
-9.225	181.457	1.863	-6.430	183.320	-5.00	183.363	-3.00	15+0.000			183.958	183.513	181.908	1.605	5.00	183.382	-2.62	6.43	183.339	8.800	181.759	1.580		
-9.358	181.460	1.952	-6.430	183.412	-5.00	183.455	-3.00	16+0.000			184.050	183.605	181.891	1.714	5.00	183.455	-3.00	6.43	183.412	8.142	182.271	1.141		
-9.073	181.743	1.762	-6.430	183.505	-5.00	183.547	-3.00	17+0.000			184.142	183.697	181.907	1.790	5.00	183.547	-3.00	6.43	183.505	8.122	182.377	1.128		
-8.741	182.056	1.541	-6.430	183.597	-5.00	183.640	-3.00	18+0.000			184.235	183.790	182.010	1.780	5.00	183.640	-3.00	6.43	183.597	8.315	182.340	1.257		
-8.660	182.202	1.487	-6.430	183.689	-5.00	183.732	-3.00	19+0.000			184.327	183.882	182.113	1.769	5.00	183.732	-3.00	6.43	183.689	7.896	182.712	0.977		
-8.072	182.686	1.095	-6.430	183.781	-5.00	183.824	-3.00	20+0.000			184.419	183.974	182.243	1.731	5.00	183.824	-3.00	6.43	183.781	7.118	183.322	0.459		
-7.972	182.845	1.028	-6.430	183.873	-5.00	183.916	-3.00	21+0.000			184.511	184.066	182.359	1.707	5.00	183.916	-3.00	6.43	183.873	7.409	183.221	0.652		
-8.083	182.863	1.102	-6.430	183.965	-5.00	184.008	-3.00	22+0.000			184.603	184.158	182.635	1.523	5.00	184.008	-3.00	6.43	183.965	7.403	183.317	0.648		
-8.080	182.959	1.100	-6.430	184.059	-5.00	184.102	-3.00	23+0.000	PCV		184.697	184.252	182.763	1.489	5.00	184.102	-3.00	6.43	184.059	7.300	183.479	0.580		
-7.918	183.169	0.992	-6.430	184.161	-5.00	184.204	-3.00	24+0.000			184.799	184.354	182.832	1.522	5.00	184.204	-3.00	6.43	184.161	7.587	183.390	0.771		
-8.319	183.012	1.259	-6.430	184.271	-5.00	184.314	-3.00	25+0.000			184.909	184.464	182.967	1.497	5.00	184.314	-3.00	6.43	184.271	7.535	183.535	0.736		
-8.064	183.301	1.090	-6.430	184.391	-5.00	184.433	-3.00	26+0.000			185.028	184.583	183.039	1.544	5.00	184.433	-3.00	6.43	184.391	7.523	183.662	0.729		
-8.237	183.314	1.205	-6.430	184.519	-5.00	184.562	-3.00	27+0.000			185.157	184.712	183.281	1.431	5.00	184.562	-3.00	6.43	184.519	8.217	183.327	1.192		
-8.206	183.471	1.185	-6.430	184.656	-5.00	184.699	-3.00	28+0.000			185.294	184.849	183.669	1.180	5.00	184.699	-3.00	6.43	184.656	8.250	183.442	1.214		
-8.633	183.333	1.468	-6.430	184.801	-5.00	184.844	-3.00	29+0.000			185.439	184.994	184.097	0.897	5.00	184.844	-3.00	6.43	184.801	8.598	183.356	1.445		

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Nota de Serviço de Terraplenagem																								
Lado Esquerdo									Eixo									Lado Direito						
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)
-8.133	183.821	1.135	-6.430	184.956	-5.00	184.999	-3.00	30+0.000			185.594	185.149	183.957	1.192	5.00	184.999	-3.00	6.43	184.956	8.344	183.680	1.276		
-8.277	183.888	1.231	-6.430	185.119	-5.00	185.162	-3.00	31+0.000			185.757	185.312	183.982	1.330	5.00	185.162	-3.00	6.43	185.119	8.597	183.675	1.444		
-8.332	184.023	1.269	-6.430	185.292	-5.00	185.334	-3.00	32+0.000			185.929	185.484	184.104	1.380	5.00	185.334	-3.00	6.43	185.292	8.765	183.735	1.557		
-8.379	184.173	1.300	-6.430	185.473	-5.00	185.515	-3.00	33+0.000			186.110	185.665	184.217	1.448	5.00	185.515	-3.00	6.43	185.473	8.678	183.974	1.499		
-8.421	184.335	1.327	-6.430	185.662	-5.00	185.705	-3.00	34+0.000			186.300	185.855	184.327	1.528	5.00	185.705	-3.00	6.43	185.662	8.825	184.066	1.596		
-8.404	184.545	1.316	-6.430	185.861	-5.00	185.904	-3.00	35+0.000		PTV	186.499	186.054	184.460	1.594	5.00	185.904	-3.00	6.43	185.861	8.654	184.378	1.483		
-8.324	184.805	1.263	-6.430	186.068	-5.00	186.111	-3.00	36+0.000			186.706	186.261	184.569	1.692	5.00	186.111	-3.00	6.43	186.068	7.776	185.170	0.998		
-7.922	185.281	0.995	-6.430	186.276	-5.00	186.319	-3.00	37+0.000			186.914	186.469	184.703	1.766	5.00	186.319	-3.00	6.43	186.276	7.866	185.318	0.958		
-8.548	185.072	1.412	-6.430	186.484	-5.00	186.527	-3.00	38+0.000			187.122	186.677	184.881	1.796	5.00	186.527	-3.00	6.43	186.484	8.441	185.143	1.341		
-8.616	185.235	1.457	-6.430	186.692	-5.00	186.735	-3.00	39+0.000			187.330	186.885	185.170	1.715	5.00	186.735	-3.00	6.43	186.692	9.135	184.889	1.803		
-8.549	185.488	1.412	-6.430	186.900	-5.00	186.943	-3.00	40+0.000			187.538	187.093	185.419	1.674	5.00	186.943	-3.00	6.43	186.900	8.967	185.209	1.691		
-8.410	185.788	1.320	-6.430	187.108	-5.00	187.151	-3.00	41+0.000			187.746	187.301	185.627	1.674	5.00	187.151	-3.00	6.43	187.108	9.186	185.271	1.837		
-9.180	185.483	1.834	-6.430	187.317	-5.00	187.359	-3.00	42+0.000			187.954	187.509	185.839	1.670	5.00	187.359	-3.00	6.43	187.317	9.709	185.130	2.187		
-8.665	186.034	1.491	-6.430	187.525	-5.00	187.568	-3.00	43+0.000			188.163	187.718	186.063	1.655	5.00	187.568	-3.00	6.43	187.525	8.943	185.849	1.676		
-8.875	186.103	1.630	-6.430	187.733	-5.00	187.776	-3.00	44+0.000			188.371	187.926	186.391	1.535	5.00	187.776	-3.00	6.43	187.733	8.667	186.242	1.491		
-8.485	186.571	1.370	-6.430	187.941	-5.00	187.984	-3.00	45+0.000			188.579	188.134	186.647	1.487	5.00	187.984	-3.00	6.43	187.941	8.147	186.796	1.145		
-7.959	187.130	1.019	-6.430	188.149	-5.00	188.192	-3.00	46+0.000			188.787	188.342	187.031	1.311	5.00	188.192	-3.00	6.43	188.149	7.249	187.603	0.546		
-7.361	187.737	0.620	-6.430	188.357	-5.00	188.400	-3.00	47+0.000			188.995	188.550	187.531	1.019	5.00	188.400	-3.00	6.43	188.357	7.256	187.808	0.549		
-8.858	188.280	0.285	-6.430	188.565	-5.00	188.608	-3.00	48+0.000			189.203	188.758	188.048	0.710	5.00	188.608	-3.00	6.43	188.565	7.255	188.015	0.550		
-6.763	188.552	0.222	-6.430	188.774	-5.00	188.816	-3.00	49+0.000			189.411	188.966	188.435	0.531	5.00	188.816	-3.00	6.43	188.774	6.650	188.627	0.147		
-6.450	189.001	-0.019	-6.430	188.982	-5.00	189.025	-3.00	50+0.000			189.620	189.175	188.793	0.382	5.00	189.025	-3.00	6.43	188.982	7.052	189.603	-0.621		
-6.562	189.322	-0.132	-6.430	189.190	-5.00	189.233	-3.00	51+0.000			189.828	189.383	189.227	0.156	5.00	189.233	-3.00	6.43	189.190	6.639	189.399	-0.209		
-6.704	189.672	-0.274	-6.430	189.398	-5.00	189.441	-3.00	52+0.000			190.036	189.591	189.383	0.208	5.00	189.441	-3.00	6.43	189.398	6.628	189.796	-0.398		
-6.500	189.676	-0.070	-6.430	189.606	-5.00	189.649	-3.00	53+0.000			190.244	189.799	189.585	0.214	5.00	189.649	-3.00	6.43	189.606	6.676	189.852	-0.246		
-6.450	189.801	0.013	-6.430	189.814	-5.00	189.857	-3.00	54+0.000			190.452	190.007	189.766	0.241	5.00	189.857	-3.00	6.43	189.814	6.712	190.097	-0.283		
-6.642	190.234	-0.212	-6.430	190.022	-5.00	190.065	-3.00	55+0.000			190.660	190.215	190.048	0.167	5.00	190.065	-3.00	6.43	190.022	6.717	190.310	-0.288		
-6.598	190.398	-0.167	-6.430	190.231	-5.00	190.273	-3.00	56+0.000			190.868	190.423	190.239	0.184	5.00	190.273	-3.00	6.43	190.231	6.888	190.688	-0.457		
-6.726	190.735	-0.296	-6.430	190.439	-5.00	190.482	-3.00	57+0.000			191.077	190.632	190.467	0.165	5.00	190.482	-3.00	6.43	190.439	6.882	190.890	-0.451		
-7.902	189.666	0.981	-6.430	190.647	-5.00	190.690	-3.00	58+0.000			191.285	190.840	190.612	0.228	5.00	190.690	-3.00	6.43	190.647	7.791	189.739	0.908		
-6.874	191.310	-0.443	-6.430	190.867	-5.00	190.910	-2.77	59+0.000			191.493	191.048	190.890	0.158	5.00	190.898	-3.00	6.43	190.855	6.912	191.337	-0.482		
-6.762	191.427	-0.332	-6.430	191.095	-5.00	191.138	-2.35	60+0.000			191.701	191.256	191.140	0.116	5.00	191.106	-3.00	6.43	191.063	6.927	191.560	-0.497		
-6.776	191.670	-0.346	-6.430	191.324	-5.00	191.367	-1.94	61+0.000			191.909	191.464	191.371	0.093	5.00	191.314	-3.00	6.43	191.271	6.980	191.821	-0.550		
-6.919	192.042	-0.489	-6.430	191.553	-5.00	191.596	-1.53	62+0.000			192.117	191.672	191.804	-0.132	5.00	191.522	-3.00	6.43	191.479	7.054	192.103	-0.624		
-6.804	192.155	-0.373	-6.430	191.782	-5.00	191.825	-1.12	63+0.000			192.325	191.880	191.837	0.043	5.00	191.730	-3.00	6.43	191.687	6.997	192.254	-0.567		
-6.702	192.282	-0.272	-6.430	192.010	-5.00	192.053	-0.70	64+0.000			192.534	192.089	192.067	0.022	5.00	191.939	-3.00	6.43	191.896	7.061	192.527	-0.631		
-6.571	192.380	-0.141	-6.430	192.239	-5.00	192.282	-0.29	65+0.000			192.742	192.297	192.276	0.021	5.00	192.147	-3.00	6.43	192.104	6.810	192.484	-0.380		
-6.668	192.639	-0.238	-6.430	192.401	-5.00	192.444	0.00	66+14.119	TS		192.889	192.444	192.468	-0.024	5.00	192.294	-3.00	6.43	192.251	7.448	193.269	-1.018		
-6.660	192.698	-0.230	-6.430	192.468	-5.00	192.511	0.12	66+0.000			192.950	192.505	192.547	-0.042	5.00	192.355	-3.00	6.43	192.312	7.760	193.642	-1.330		
-6.660	192.802	-0.230	-6.430	192.572	-5.00	192.615	0.12	66+0.000			193.054	192.609	192.643	-0.034	5.00	192.459	-3.00	6.43	192.416	7.760	193.746	-1.330		
-6.792	193.059	-0.362	-6.430	192.697	-5.00	192.740	0.53	67+0.000			193.158	192.713	192.739	-0.026	5.00	192.563	-3.00	6.43	192.520	6.934	193.024	-0.504		
-6.792	193.163	-0.362	-6.430	192.801	-5.00	192.844	0.53	67+10.000			193.262	192.817	192.836	-0.019	5.00	192.667	-3.00	6.43	192.624	6.934	193.128	-0.504		
-6.582	193.077	-0.152	-6.430	192.925	-5.00	192.968	0.95	68+0.000			193.366	192.921	192.934	-0.013	5.00	192.771	-3.00	6.43	192.728	6.974	193.272	-0.544		
-6.582	193.182	-0.152	-6.430	193.030	-5.00	193.072	0.95	68+10.000			193.470	193.025	193.002	0.023	5.00	192.875	-3.00	6.43	192.832	6.974	193.376	-0.544		
-6.466	193.190	-0.036	-6.430	193.154	-5.00	193.197	1.36	69+0.000			193.574	193.129	193.071	0.058	5.00	192.979	-3.00	6.43	192.936	7.052	193.558	-0.622		
-6.466	193.294	-0.036	-6.430	193.258	-5.00	193.301	1.36	69+10.000			193.678	193.233	193.192	0.041	5.00	193.083	-3.00	6.43	193.040	7.052	193.662	-0.622		
-6.539	193.492	-0.109	-6.430	193.383	-5.00	193.426	1.77	70+0.000			193.782	193.337	193.313	0.024	5.00	193.187	-3.00	6.43	193.144	6.849	193.564	-0.420		
-6.539	193.596	-0.109	-6.430	193.487	-5.00	193.530	1.77	70+10.000			193.886	193.441	193.419	0.022	5.00	193.291	-3.00	6.43	193.249	6.849	193.668	-0.419		
-6.498	193.566	0.046	-6.430	193.612	-5.00	193.655	2.18	71+0.000			193.990	193.545	193.525	0.020	5.00	193.395	-3.00	6.43	193.353	6.957	193.879	-0.526		
-6.498	193.670	0.046	-6.430	193.716	-5.00	193.759	2.18	71+10.000			194.095	193.650	193.594	0.056	5.00	193.500	-3.00	6.43	193.					



Nota de Serviço de Terraplenagem																									
Lado Esquerdo									Eixo									Lado Direito							
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset			
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Altura (m)
-6.905	193.524	0.317	-6.430	193.841	-5.00	193.883	2.60	72+0.000			194.199	193.754	193.663	0.091	5.00	193.604	-3.00	6.43	193.561	6.983	194.114	-0.553			
-6.905	193.628	0.317	-6.430	193.945	-5.00	193.988	2.60	72+10.000			194.303	193.858	193.735	0.123	5.00	193.708	-3.00	6.43	193.665	6.983	194.218	-0.553			
-6.845	194.485	-0.416	-6.430	194.069	-5.00	194.112	3.01	73+0.000			194.407	193.962	193.777	0.185	5.00	193.811	-3.01	6.43	193.768	7.017	194.355	-0.587			
-6.845	194.589	-0.416	-6.430	194.173	-5.00	194.216	3.01	73+10.000			194.511	194.066	193.817	0.249	5.00	193.915	-3.01	6.43	193.872	7.017	194.459	-0.587			
-6.625	194.426	-0.195	-6.430	194.231	-5.00	194.274	3.30	73+14.119	SC		194.554	194.109	193.829	0.280	5.00	193.944	-3.30	6.43	193.901	6.989	194.460	-0.559			
-6.602	194.177	0.115	-6.430	194.292	-5.00	194.335	3.30	74+0.000			194.615	194.170	193.843	0.327	5.00	194.005	-3.30	6.43	193.962	6.962	194.494	-0.532			
-6.602	194.281	0.115	-6.430	194.396	-5.00	194.439	3.30	74+10.000			194.719	194.274	193.920	0.354	5.00	194.109	-3.30	6.43	194.066	6.962	194.599	-0.533			
-6.577	194.402	0.098	-6.430	194.500	-5.00	194.543	3.30	75+0.000			194.823	194.378	193.983	0.395	5.00	194.213	-3.30	6.43	194.170	6.993	194.733	-0.563			
-6.577	194.506	0.098	-6.430	194.604	-5.00	194.647	3.30	75+10.000			194.927	194.482	194.189	0.293	5.00	194.317	-3.30	6.43	194.274	6.993	194.837	-0.563			
-6.688	194.536	0.172	-6.430	194.708	-5.00	194.751	3.30	76+0.000			195.031	194.586	194.392	0.194	5.00	194.421	-3.30	6.43	194.378	6.913	194.861	-0.483			
-6.688	194.640	0.172	-6.430	194.812	-5.00	194.855	3.30	76+10.000			195.135	194.690	194.529	0.161	5.00	194.525	-3.30	6.43	194.482	6.913	194.965	-0.483			
-6.685	194.746	0.170	-6.430	194.916	-5.00	194.959	3.30	77+0.000			195.239	194.794	194.780	0.014	5.00	194.629	-3.30	6.43	194.586	6.769	194.926	-0.340			
-6.685	194.850	0.170	-6.430	195.020	-5.00	195.063	3.30	77+10.000			195.343	194.898	194.838	0.060	5.00	194.733	-3.30	6.43	194.690	6.769	195.030	-0.340			
-6.682	194.957	0.168	-6.430	195.125	-5.00	195.167	3.30	78+0.000			195.447	195.002	194.976	0.026	5.00	194.837	-3.30	6.43	194.795	6.821	195.186	-0.391			
-6.681	194.970	0.167	-6.430	195.137	-5.00	195.180	3.30	78+1.204			195.460	195.015	194.983	0.032	5.00	194.850	-3.30	6.43	194.807	6.824	195.201	-0.394			
-6.681	195.061	0.168	-6.430	195.229	-5.00	195.272	3.30	78+10.000			195.552	195.107	195.069	0.038	5.00	194.942	-3.30	6.43	194.899	6.824	195.292	-0.393			
-6.675	195.170	0.163	-6.430	195.333	-5.00	195.376	3.30	79+0.000			195.656	195.211	195.242	-0.031	5.00	195.046	-3.30	6.43	195.003	6.839	195.412	-0.409			
-6.675	195.274	0.163	-6.430	195.437	-5.00	195.480	3.30	79+10.000			195.760	195.315	195.266	0.049	5.00	195.150	-3.30	6.43	195.107	6.839	195.516	-0.409			
-6.711	195.354	0.187	-6.430	195.541	-5.00	195.584	3.30	80+0.000			195.864	195.419	195.356	0.063	5.00	195.254	-3.30	6.43	195.211	6.855	195.636	-0.425			
-6.711	195.458	0.187	-6.430	195.645	-5.00	195.688	3.30	80+10.000			195.968	195.523	195.421	0.102	5.00	195.358	-3.30	6.43	195.315	6.855	195.740	-0.425			
-6.718	195.557	0.192	-6.430	195.749	-5.00	195.792	3.30	81+0.000			196.072	195.627	195.568	0.059	5.00	195.462	-3.30	6.43	195.419	6.959	195.948	-0.529			
-6.718	195.661	0.192	-6.430	195.853	-5.00	195.896	3.30	81+10.000			196.176	195.731	195.547	0.184	5.00	195.566	-3.30	6.43	195.523	6.959	196.052	-0.529			
-6.835	195.687	0.270	-6.430	195.957	-5.00	196.000	3.30	82+0.000			196.280	195.835	195.639	0.196	5.00	195.670	-3.30	6.43	195.627	6.670	195.867	-0.240			
-6.946	195.699	0.344	-6.430	196.043	-5.00	196.086	3.30	82+8.289	CS		196.366	195.921	195.557	0.364	5.00	195.756	-3.30	6.43	195.713	6.727	196.011	-0.298			
-6.946	195.717	0.344	-6.430	196.061	-5.00	196.104	3.30	82+10.000			196.384	195.939	195.551	0.388	5.00	195.774	-3.30	6.43	195.731	6.727	196.028	-0.297			
-7.083	195.718	0.435	-6.430	196.153	-5.00	196.196	3.06	83+0.000			196.488	196.043	195.579	0.464	5.00	195.890	-3.06	6.43	195.847	6.766	196.183	-0.336			
-7.083	195.822	0.435	-6.430	196.257	-5.00	196.300	3.06	83+10.000			196.592	196.147	195.722	0.425	5.00	195.994	-3.06	6.43	195.951	6.766	196.287	-0.336			
-6.880	196.041	0.300	-6.430	196.341	-5.00	196.384	2.65	84+0.000			196.696	196.251	195.861	0.390	5.00	196.101	-3.00	6.43	196.058	6.592	196.220	-0.162			
-6.880	196.145	0.300	-6.430	196.445	-5.00	196.488	2.65	84+10.000			196.800	196.355	195.997	0.358	5.00	196.205	-3.00	6.43	196.162	6.592	196.324	-0.162			
-6.737	196.324	0.204	-6.430	196.528	-5.00	196.571	2.23	85+0.000			196.904	196.459	196.133	0.326	5.00	196.309	-3.00	6.43	196.267	6.657	196.494	-0.227			
-6.737	196.428	0.204	-6.430	196.632	-5.00	196.675	2.23	85+10.000			197.008	196.563	196.242	0.321	5.00	196.413	-3.00	6.43	196.371	6.657	196.598	-0.227			
-6.829	196.450	0.266	-6.430	196.716	-5.00	196.759	1.82	86+0.000			197.113	196.668	196.352	0.316	5.00	196.518	-3.00	6.43	196.475	6.549	196.694	-0.119			
-6.829	196.554	0.266	-6.430	196.820	-5.00	196.863	1.82	86+10.000			197.217	196.772	196.458	0.314	5.00	196.622	-3.00	6.43	196.579	6.549	196.698	-0.119			
-6.870	196.610	0.293	-6.430	196.903	-5.00	196.946	1.41	87+0.000			197.321	196.876	196.566	0.310	5.00	196.726	-3.00	6.43	196.683	6.532	196.785	-0.102			
-6.870	196.714	0.293	-6.430	197.007	-5.00	197.050	1.41	87+10.000			197.425	196.980	196.686	0.294	5.00	196.830	-3.00	6.43	196.787	6.532	196.889	-0.102			
-6.844	196.815	0.276	-6.430	197.091	-5.00	197.134	1.00	88+0.000			197.529	197.084	196.809	0.275	5.00	196.934	-3.00	6.43	196.891						
-6.844	196.919	0.276	-6.430	197.195	-5.00	197.238	1.00	88+10.000			197.633	197.188	196.931	0.257	5.00	197.038	-3.00	6.43	196.995						
-6.665	197.122	0.156	-6.430	197.278	-5.00	197.321	0.58	89+0.000			197.737	197.292	197.050	0.242	5.00	197.142	-3.00	6.43	197.099	6.499	197.168	-0.069			
-6.665	197.226	0.156	-6.430	197.382	-5.00	197.425	0.58	89+10.000			197.841	197.396	197.174	0.222	5.00	197.246	-3.00	6.43	197.203	6.499	197.272	-0.069			
-6.467	197.441	0.025	-6.430	197.466	-5.00	197.509	0.17	90+0.000			197.945	197.500	197.298	0.202	5.00	197.350	-3.00	6.43	197.307	6.661	197.338	-0.231			
-6.500	197.614	-0.071	-6.430	197.543	-5.00	197.586	0.00	90+8.289	ST		198.031	197.586	197.425	0.161	5.00	197.436	-3.00	6.43	197.393	6.668	197.631	-0.238			
-6.533	197.757	-0.104	-6.430	197.653	-5.00	197.696	-0.24	91+0.000			198.153	197.708	197.602	0.106	5.00	197.558	-3.00	6.43	197.515	6.636	197.723	-0.208			
-6.452	197.863	-0.022	-6.430	197.841	-5.00	197.884	-0.65	92+0.000			198.361	197.916	197.810	0.106	5.00	197.766	-3.00	6.43	197.723	6.487	197.941	-0.218			
-6.482	197.994	0.034	-6.430	198.028	-5.00	198.071	-1.07	93+0.000			198.570	198.125	197.951	0.174	5.00	197.975	-3.00	6.43	197.932	6.517	198.018	-0.086			
-6.769	197.990	0.226	-6.430	198.216	-5.00	198.259	-1.48	94+0.000			198.778	198.333	198.033	0.300	5.00	198.183	-3.00	6.43	198.140	6.487	198.197	-0.057			
-6.821	198.143	0.260	-6.430	198.403	-5.00	198.446	-1.89	95+0.000			198.986	198.541	198.158	0.383	5.00	198.391	-3.00	6.43	198.348	6.527	198.283	0.065			
-6.638	198.452	0.139	-6.430	198.591	-5.00	198.634	-2.30	96+0.000			199.194	198.749	198.439	0.310	5.00	198.599	-3.00	6.43	198.556	6.524	198.493	0.063			
-6.471	198.751	0.027	-6.430	198.778	-5.00	198.821	-2.72	97+0.000			199.402	198.957	198.654	0.303	5.00	198.807	-3.00	6.43	198.764	6.499	198.833	-0.069			
-6.645	198.829	0.143	-6.430	198.972	-5.00	199.015	-3.00	98+0.000			199.610	199.165	198.835	0.330	5.00	199.015	-3.00	6.43	198.972	6.501	198.925	0.047			



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo						Lado Direito							
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral		Offset	
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Altura (m)
0.000	0.000	199.180	-6.430	199.180	-5.00	199.223	-3.00	99+0.000			199.818	199.373	199.072	0.301	5.00	199.223	-3.00	6.43	199.180	6.557	199.307	-0.127
-6.550	199.508	-0.119	-6.430	199.389	-5.00	199.432	-3.00	100+0.000			200.027	199.582	199.288	0.294	5.00	199.432	-3.00	6.43	199.389	6.745	199.703	-0.314
-6.498	199.665	-0.068	-6.430	199.597	-5.00	199.640	-3.00	101+0.000		PCV	200.235	199.790	199.541	0.249	5.00	199.640	-3.00	6.43	199.597	6.630	199.797	-0.200
-6.525	199.899	-0.095	-6.430	199.804	-5.00	199.846	-3.00	102+0.000			200.441	199.996	199.777	0.219	5.00	199.846	-3.00	6.43	199.804	6.756	200.130	-0.326
-6.463	200.033	-0.032	-6.430	200.001	-5.00	200.044	-3.00	103+0.000			200.639	200.194	199.990	0.204	5.00	200.044	-3.00	6.43	200.001	6.738	200.309	-0.308
-6.584	200.341	-0.154	-6.430	200.187	-5.00	200.230	-3.00	104+0.000			200.825	200.380	200.161	0.219	5.00	200.230	-3.00	6.43	200.187	6.684	200.441	-0.254
-6.538	200.470	-0.108	-6.430	200.362	-5.00	200.405	-3.00	105+0.000			201.000	200.555	200.352	0.203	5.00	200.405	-3.00	6.43	200.362	6.809	200.741	-0.379
-6.501	200.597	-0.071	-6.430	200.526	-5.00	200.569	-3.00	106+0.000			201.164	200.719	200.554	0.165	5.00	200.569	-3.00	6.43	200.526	6.839	200.935	-0.409
-6.769	201.019	-0.340	-6.430	200.679	-5.00	200.722	-3.00	107+0.000			201.317	200.872	200.780	0.092	5.00	200.722	-3.00	6.43	200.679	6.851	201.101	-0.422
-6.741	201.132	-0.311	-6.430	200.821	-5.00	200.864	-3.00	108+0.000			201.459	201.014	201.007	0.007	5.00	200.864	-3.00	6.43	200.821	6.848	201.239	-0.418
-6.700	201.222	-0.270	-6.430	200.952	-5.00	200.995	-3.00	109+0.000			201.590	201.145	201.191	-0.046	5.00	200.995	-3.00	6.43	200.952	6.913	201.435	-0.483
-6.773	201.415	-0.343	-6.430	201.072	-5.00	201.115	-3.00	110+0.000			201.710	201.265	201.399	-0.134	5.00	201.115	-3.00	6.43	201.072	6.929	201.571	-0.499
-6.961	201.712	-0.531	-6.430	201.181	-5.00	201.224	-3.00	111+0.000			201.819	201.374	201.521	-0.147	5.00	201.268	-2.11	6.43	201.225	6.898	201.693	-0.468
-6.628	201.477	-0.198	-6.430	201.279	-5.00	201.322	-3.00	112+0.000			201.917	201.472	201.683	-0.211	5.00	201.426	-0.91	6.43	201.383	6.650	201.603	-0.220
-6.809	201.725	-0.379	-6.430	201.346	-5.00	201.389	-3.00	112+15.221	TS		201.984	201.539	201.799	-0.260	5.00	201.539	0.00	6.43	201.496	6.864	201.930	-0.434
-6.848	201.784	-0.418	-6.430	201.366	-5.00	201.409	-3.00	113+0.000			202.004	201.559	201.835	-0.276	5.00	201.573	0.29	6.43	201.530	6.921	202.021	-0.491
-6.848	201.823	-0.418	-6.430	201.405	-5.00	201.448	-3.00	113+10.000			202.043	201.598	201.891	-0.293	5.00	201.612	0.29	6.43	201.569	6.921	202.060	-0.491
-6.867	201.879	-0.437	-6.430	201.442	-5.00	201.484	-3.00	114+0.000			202.079	201.634	201.950	-0.316	5.00	201.709	1.49	6.43	201.666	6.834	202.070	-0.404
-6.867	201.913	-0.438	-6.430	201.475	-5.00	201.518	-3.00	114+10.000			202.113	201.668	201.988	-0.320	5.00	201.743	1.49	6.43	201.700	6.834	202.104	-0.404
-6.921	201.998	-0.492	-6.430	201.506	-5.00	201.549	-3.00	115+0.000			202.144	201.699	202.030	-0.331	5.00	201.833	2.69	6.43	201.791	6.819	202.179	-0.388
-6.921	202.026	-0.492	-6.430	201.534	-5.00	201.577	-3.00	115+10.000			202.172	201.727	202.043	-0.316	5.00	201.862	2.69	6.43	201.819	6.819	202.208	-0.389
-6.633	201.718	-0.202	-6.430	201.516	-5.00	201.559	-3.89	116+0.000			202.198	201.753	202.050	-0.297	5.00	201.947	3.89	6.43	201.904	6.847	202.321	-0.417
-6.633	201.741	-0.203	-6.430	201.538	-5.00	201.581	-3.89	116+10.000			202.221	201.776	202.079	-0.243	5.00	201.970	3.89	6.43	201.927	6.847	202.344	-0.417
-6.520	201.588	-0.090	-6.430	201.498	-5.00	201.541	-5.09	117+0.000			202.241	201.796	201.981	-0.185	5.00	202.050	5.09	6.43	202.007	6.884	202.060	-0.053
-6.520	201.605	-0.090	-6.430	201.515	-5.00	201.558	-5.09	117+10.000			202.258	201.813	201.829	-0.016	5.00	202.067	5.09	6.43	202.024	6.484	202.078	-0.054
-6.607	201.359	0.119	-6.430	201.478	-5.00	201.521	-6.00	117+15.221	SC		202.266	201.821	201.724	0.097	5.00	202.121	6.00	6.43	202.078	6.515	202.162	-0.084
-6.730	201.284	0.200	-6.430	201.484	-5.00	201.527	-6.00	118+0.000			202.272	201.827	201.615	0.212	5.00	202.127	6.00	6.43	202.084	6.539	202.194	-0.110
-6.730	201.296	0.200	-6.430	201.496	-5.00	201.539	-6.00	118+10.000			202.284	201.839	201.650	0.189	5.00	202.139	6.00	6.43	202.096	6.539	202.205	-0.109
-6.625	201.375	0.130	-6.430	201.505	-5.00	201.548	-6.00	119+0.000			202.293	201.848	201.657	0.191	5.00	202.148	6.00	6.43	202.105	6.469	202.079	0.026
-6.625	201.381	0.130	-6.430	201.511	-5.00	201.554	-6.00	119+10.000			202.299	201.854	201.808	0.046	5.00	202.154	6.00	6.43	202.111	6.469	202.085	0.026
-6.577	201.661	-0.147	-6.430	201.514	-5.00	201.557	-6.00	120+0.000			202.302	201.857	201.915	-0.058	5.00	202.157	6.00	6.43	202.114	6.855	201.831	0.283
-6.646	201.731	-0.216	-6.430	201.515	-5.00	201.558	-6.00	120+1.959			202.303	201.858	201.897	-0.039	5.00	202.158	6.00	6.43	202.115	6.844	201.839	0.276
-6.646	201.731	-0.216	-6.430	201.515	-5.00	201.558	-6.00	120+10.000			202.303	201.858	201.818	0.040	5.00	202.158	6.00	6.43	202.115	6.844	201.839	0.276
-7.513	202.595	-1.082	-6.430	201.513	-5.00	201.556	-6.00	121+0.000			202.301	201.856	201.710	0.146	5.00	202.156	6.00	6.43	202.113	6.582	202.012	0.101
-7.513	202.591	-1.083	-6.430	201.508	-5.00	201.551	-6.00	121+10.000			202.296	201.851	201.697	0.154	5.00	202.151	6.00	6.43	202.108	6.582	202.007	0.101
-7.088	202.158	-0.658	-6.430	201.500	-5.00	201.543	-6.00	122+0.000			202.288	201.843	201.670	0.173	5.00	202.143	6.00	6.43	202.100	6.595	201.990	0.110
-7.068	202.129	-0.638	-6.430	201.491	-5.00	201.534	-6.00	122+8.698	CS		202.279	201.834	201.608	0.226	5.00	202.134	6.00	6.43	202.091	6.624	201.962	0.129
-7.068	202.128	-0.638	-6.430	201.490	-5.00	201.533	-6.00	122+10.000			202.278	201.833	201.598	0.235	5.00	202.133	6.00	6.43	202.090	6.624	201.961	0.129
-7.043	202.124	-0.613	-6.430	201.511	-5.00	201.554	-5.32	123+0.000			202.265	201.820	201.524	0.296	5.00	202.086	5.32	6.43	202.043	6.741	201.836	0.207
-7.043	202.108	-0.613	-6.430	201.495	-5.00	201.538	-5.32	123+10.000			202.249	201.804	201.654	0.150	5.00	202.070	5.32	6.43	202.027	6.741	201.820	0.207
-6.984	202.090	-0.554	-6.430	201.536	-5.00	201.579	-4.12	124+0.000			202.230	201.785	201.770	0.015	5.00	201.991	4.12	6.43	201.948	6.466	201.924	0.024
-6.984	202.069	-0.554	-6.430	201.515	-5.00	201.558	-4.12	124+10.000			202.209	201.764	201.787	-0.023	5.00	201.970	4.12	6.43	201.927	6.466	201.903	0.024
-7.241	202.358	-0.811	-6.430	201.547	-5.00	201.589	-3.00	125+0.000			202.184	201.739	201.792	-0.053	5.00	201.886	2.92	6.43	201.843	6.454	201.867	-0.024
-7.241	202.331	-0.811	-6.430	201.520	-5.00	201.563	-3.00	125+10.000			202.158	201.713	201.782	-0.069	5.00	201.859	2.92	6.43	201.816	6.454	201.840	-0.024
-6.475	201.535	-0.045	-6.430	201.490	-5.00	201.533	-3.00	126+0.000			202.128	201.683	201.845	-0.162	5.00	201.769	1.72	6.43	201.726	6.527	201.661	0.065
-6.475	201.503	-0.046	-6.430	201.457	-5.00	201.500	-3.00	126+10.000			202.095	201.650	201.755	-0.105	5.00	201.736	1.72	6.43	201.694	6.527	201.629	0.065
-6.568	201.560	-0.138	-6.430	201.422	-5.00	201.465	-3.00	127+0.000			202.060	201.615	201.702	-0.087	5.00	201.641	0.52	6.43	201.598	6.527	201.689	-0.091
-6.457	201.417	-0.028	-6.430	201.389	-5.00	201.432	-3.00	127+8.698	ST		202.027	201.582	201.619	-0.037	5.00	201.582	0.00	6.43	201.539	6.664	201.773	-0.234
-6.778	201.112	0.231	-6.430	201.343	-5.00	201.386	-3.00	128+0.000			201.981	201.536	201.513	0.023	5.00	201						



Nota de Serviço de Terraplenagem																										
Lado Esquerdo									Eixo									Lado Direito								
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset				
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-6.702	201.072	0.182	-6.430	201.254	-5.00	201.297	-3.00	129+0.000			201.892	201.447	201.373	0.074	5.00	201.353	-1.88	6.43	201.310	6.724	201.604	-0.294				
-6.833	200.884	0.269	-6.430	201.153	-5.00	201.196	-3.00	130+0.000			201.791	201.346	201.229	0.117	5.00	201.196	-3.00	6.43	201.153	6.524	201.246	-0.093				
-7.258	200.489	0.552	-6.430	201.041	-5.00	201.084	-3.00	131+0.000			201.679	201.234	201.115	0.119	5.00	201.084	-3.00	6.43	201.041	6.558	201.169	-0.128				
-7.056	200.501	0.417	-6.430	200.918	-5.00	200.961	-3.00	132+0.000			201.556	201.111	200.950	0.161	5.00	200.961	-3.00	6.43	200.918	6.536	200.847	0.071				
-6.613	200.662	0.122	-6.430	200.784	-5.00	200.827	-3.00	133+0.000			201.422	200.977	200.751	0.226	5.00	200.827	-3.00	6.43	200.784	6.708	200.598	0.186				
-6.523	200.577	0.062	-6.430	200.639	-5.00	200.682	-3.00	134+0.000			201.277	200.832	200.552	0.280	5.00	200.682	-3.00	6.43	200.639	6.456	200.665	-0.026				
-6.613	200.361	0.122	-6.430	200.483	-5.00	200.526	-3.00	135+0.000			201.121	200.676	200.379	0.297	5.00	200.526	-3.00	6.43	200.483	6.540	200.593	-0.110				
-6.496	200.272	0.044	-6.430	200.316	-5.00	200.359	-3.00	136+0.000			200.954	200.509	200.277	0.232	5.00	200.359	-3.00	6.43	200.316	6.551	200.437	-0.121				
-6.437	200.133	0.005	-6.430	200.138	-5.00	200.181	-3.00	137+0.000			200.776	200.331	200.162	0.169	5.00	200.181	-3.00	6.43	200.138	6.568	200.046	0.092				
-6.838	200.357	-0.408	-6.430	199.949	-5.00	199.992	-3.00	138+0.000			200.587	200.142	200.036	0.106	5.00	199.992	-3.00	6.43	199.949	6.462	199.927	0.022				
-6.620	199.938	-0.190	-6.430	199.748	-5.00	199.791	-3.00	139+0.000			200.386	199.941	199.908	0.033	5.00	199.791	-3.00	6.43	199.748	6.576	199.894	-0.146				
-6.623	199.730	-0.193	-6.430	199.537	-5.00	199.580	-3.00	140+0.000		PTV	200.175	199.730	199.763	-0.033	5.00	199.580	-3.00	6.43	199.537	6.831	199.938	-0.401				
-6.819	199.705	-0.389	-6.430	199.316	-5.00	199.359	-3.00	141+0.000			199.954	199.509	199.611	-0.102	5.00	199.359	-3.00	6.43	199.316	6.899	199.782	-0.466				
-6.796	199.458	-0.366	-6.430	199.092	-5.00	199.135	-3.00	142+0.000			199.730	199.285	199.246	0.039	5.00	199.135	-3.00	6.43	199.092	6.827	199.491	-0.399				
-6.964	199.403	-0.534	-6.430	198.869	-5.00	198.912	-3.00	143+0.000			199.507	199.062	199.335	-0.273	5.00	198.912	-3.00	6.43	198.869	7.010	199.449	-0.580				
-6.904	199.120	-0.474	-6.430	198.646	-5.00	198.688	-3.00	144+0.000			199.283	198.838	199.146	-0.308	5.00	198.688	-3.00	6.43	198.646	6.873	199.089	-0.443				
-7.190	199.182	-0.760	-6.430	198.422	-5.00	198.465	-3.00	145+0.000			199.060	198.615	198.975	-0.360	5.00	198.465	-3.00	6.43	198.422	7.130	199.122	-0.700				
-7.141	198.909	-0.710	-6.430	198.199	-5.00	198.242	-3.00	146+0.000			198.837	198.392	198.847	-0.455	5.00	198.242	-3.00	6.43	198.199	7.212	198.981	-0.782				
-7.355	198.901	-0.926	-6.430	197.975	-5.00	198.018	-3.00	147+0.000			198.613	198.168	198.699	-0.531	5.00	198.018	-3.00	6.43	197.975	7.411	198.956	-0.981				
-7.308	198.630	-0.878	-6.430	197.752	-5.00	197.795	-3.00	148+0.000			198.390	197.945	198.548	-0.603	5.00	197.795	-3.00	6.43	197.752	7.330	198.652	-0.900				
-7.345	198.444	-0.916	-6.430	197.528	-5.00	197.571	-3.00	149+0.000			198.166	197.721	198.378	-0.657	5.00	197.571	-3.00	6.43	197.528	7.418	198.516	-0.988				
-7.443	198.318	-1.013	-6.430	197.305	-5.00	197.348	-3.00	150+0.000			197.943	197.498	198.211	-0.713	5.00	197.348	-3.00	6.43	197.305	7.395	198.270	-0.965				
-7.569	198.221	-1.139	-6.430	197.082	-5.00	197.124	-3.00	151+0.000			197.719	197.274	198.000	-0.726	5.00	197.124	-3.00	6.43	197.082	7.465	198.116	-1.034				
-7.556	197.985	-1.127	-6.430	196.858	-5.00	196.901	-3.00	152+0.000			197.496	197.051	197.810	-0.759	5.00	196.901	-3.00	6.43	196.858	7.636	198.064	-1.206				
-7.559	197.764	-1.129	-6.430	196.635	-5.00	196.678	-3.00	153+0.000			197.273	196.828	197.623	-0.795	5.00	196.678	-3.00	6.43	196.635	7.526	197.731	-1.096				
-7.486	197.467	-1.056	-6.430	196.411	-5.00	196.454	-3.00	154+0.000			197.049	196.604	197.430	-0.826	5.00	196.454	-3.00	6.43	196.411	7.361	197.342	-0.931				
-7.438	197.195	-1.007	-6.430	196.188	-5.00	196.231	-3.00	155+0.000			196.826	196.381	197.242	-0.861	5.00	196.231	-3.00	6.43	196.188	7.725	197.483	-1.295				
-7.689	197.224	-1.260	-6.430	195.964	-5.00	196.007	-3.00	156+0.000			196.602	196.157	197.137	-0.980	5.00	196.007	-3.00	6.43	195.964	7.731	197.265	-1.301				
-7.725	197.036	-1.295	-6.430	195.741	-5.00	195.784	-3.00	157+0.000			196.379	195.934	196.930	-0.996	5.00	195.784	-3.00	6.43	195.741	7.946	197.257	-1.516				
-7.693	196.780	-1.263	-6.430	195.517	-5.00	195.560	-3.00	158+0.000			196.155	195.710	196.612	-0.902	5.00	195.560	-3.00	6.43	195.517	7.837	196.925	-1.408				
-8.185	197.049	-1.755	-6.430	195.294	-5.00	195.337	-3.00	159+0.000			195.932	195.487	196.325	-0.838	5.00	195.337	-3.00	6.43	195.294	7.824	196.688	-1.394				
-7.657	196.297	-1.226	-6.430	195.071	-5.00	195.114	-3.00	160+0.000			195.709	195.264	196.005	-0.741	5.00	195.114	-3.00	6.43	195.071	7.943	196.584	-1.513				
-7.531	195.948	-1.101	-6.430	194.847	-5.00	194.889	-3.00	161+0.000		PCV	195.484	195.039	195.720	-0.681	5.00	194.889	-3.00	6.43	194.847	7.696	196.112	-1.265				
-7.702	195.871	-1.272	-6.430	194.599	-5.00	194.642	-3.00	162+0.000			195.237	194.792	195.469	-0.677	5.00	194.642	-3.00	6.43	194.599	7.590	195.759	-1.160				
-7.557	195.443	-1.127	-6.430	194.316	-5.00	194.359	-3.00	163+0.000			194.954	194.509	195.189	-0.680	5.00	194.359	-3.00	6.43	194.316	7.644	195.530	-1.214				
-7.789	195.357	-1.359	-6.430	193.998	-5.00	194.041	-3.00	164+0.000			194.636	194.191	194.954	-0.763	5.00	194.041	-3.00	6.43	193.998	7.669	195.237	-1.239				
-7.831	195.044	-1.400	-6.430	193.644	-5.00	193.687	-3.00	165+0.000			194.282	193.837	194.725	-0.888	5.00	193.687	-3.00	6.43	193.644	8.297	195.511	-1.867				
-8.049	194.874	-1.619	-6.430	193.255	-5.00	193.298	-3.00	166+0.000			193.893	193.448	194.485	-1.037	5.00	193.298	-3.00	6.43	193.255	8.050	194.875	-1.620				
-8.132	194.532	-1.702	-6.430	192.830	-5.00	192.873	-3.00	167+0.000			193.468	193.023	194.125	-1.102	5.00	192.873	-3.00	6.43	192.830	7.901	194.301	-1.471				
-7.827	193.768	-1.398	-6.430	192.370	-5.00	192.413	-3.00	168+0.000			193.008	192.563	193.331	-0.768	5.00	192.413	-3.00	6.43	192.370	8.047	193.987	-1.617				
-7.500	192.945	-1.070	-6.430	191.875	-5.00	191.918	-3.00	169+0.000			192.513	192.068	192.399	-0.331	5.00	191.953	-2.29	6.43	191.911	7.443	192.924	-1.013				
-7.258	192.187	-0.828	-6.430	191.359	-5.00	191.402	-2.72	170+0.000			191.983	191.538	191.830	-0.292	5.00	191.566	0.56	6.43	191.523	6.933	192.025	-0.502				
-7.255	192.144	-0.825	-6.430	191.319	-5.00	191.362	-2.60	170+1.653		PC	191.937	191.492	191.780	-0.288	5.00	191.532	0.80	6.43	191.489	6.944	192.003	-0.514				
-7.255	191.911	-0.825	-6.430	191.086	-5.00	191.129	-2.60	170+10.000			191.704	191.259	191.529	-0.270	5.00	191.299	0.80	6.43	191.256	6.944	191.770	-0.514				
-7.291	191.640	-0.861	-6.430	190.779	-5.00	190.822	-3.00	171+0.000			191.417	190.972	191.228	-0.256	5.00	191.122	3.00	6.43	191.079	7.055	191.704	-0.625				
-7.291	191.344	-0.862	-6.430	190.482	-5.00	190.525	-3.00	171+10.000			191.120	190.675	190.841	-0.166	5.00	190.825	3.00	6.43	190.782	7.055	191.408	-0.626				
-7.215	190.963	-0.786	-6.430	190.177	-5.00	190.220	-3.00	172+0.000			190.815	190.370	190.455	-0.085	5.00	190.520	3.00	6.43	190.477	6.791	190.838	-0.361				
-7.215	190.649	-0.786	-6.430	189.863	-5.00	189.906	-3.00	172+10.000			190.501	190.056	190.106	-0.050	5.00	190.206	3.00	6.43	190.163	6.791	190.524	-0.361				
-6.731	189.842	-0.301	-6.430	189.541	-5.00	189.583	-3.00	173+0.000		PTV	190.178	189.733	189.757													



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo						Lado Direito							
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral		Offset	
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)
-6.731	189.512	-0.301	-6.430	189.211	-5.00	189.253	-3.00	173+10.000			189.848	189.403	189.368	0.035	5.00	189.553	3.00	6.43	189.511	6.603	189.684	-0.173
-6.918	189.367	-0.487	-6.430	188.880	-5.00	188.923	-3.00	174+0.000			189.518	189.073	188.980	0.093	5.00	189.223	3.00	6.43	189.180	6.499	189.249	-0.069
-6.918	189.037	-0.488	-6.430	188.549	-5.00	188.592	-3.00	174+10.000			189.187	188.742	188.574	0.168	5.00	188.892	3.00	6.43	188.849	6.499	188.918	-0.069
-6.941	188.730	-0.511	-6.430	188.219	-5.00	188.261	-3.00	175+0.000			188.856	188.411	188.168	0.243	5.00	188.561	3.00	6.43	188.519	6.719	188.326	0.193
-6.941	188.399	-0.511	-6.430	187.888	-5.00	187.931	-3.00	175+10.000			188.526	188.081	187.703	0.378	5.00	188.231	3.00	6.43	188.188	6.719	187.995	0.193
-6.531	187.888	-0.101	-6.430	187.787	-5.00	187.830	-3.00	175+13.047			188.425	187.980	187.562	0.418	5.00	188.130	3.00	6.43	188.087	6.974	187.724	0.363
-6.723	187.362	0.195	-6.430	187.557	-5.00	187.600	-3.00	176+0.000			188.195	187.750	187.240	0.510	5.00	187.900	3.00	6.43	187.857	7.102	187.409	0.448
-6.723	187.031	0.196	-6.430	187.227	-5.00	187.270	-3.00	176+10.000			187.865	187.420	186.680	0.740	5.00	187.570	3.00	6.43	187.527	7.102	187.079	0.448
-7.216	186.372	0.524	-6.430	186.896	-5.00	186.939	-3.00	177+0.000			187.534	187.089	186.124	0.965	5.00	187.239	3.00	6.43	187.196	7.973	186.168	1.028
-7.216	186.048	0.524	-6.430	186.572	-5.00	186.615	-3.00	177+10.000		PCV	187.210	186.765	185.700	1.065	5.00	186.915	3.00	6.43	186.872	7.973	185.844	1.028
-7.603	185.481	0.782	-6.430	186.263	-5.00	186.306	-3.00	178+0.000			186.901	186.456	185.279	1.177	5.00	186.606	3.00	6.43	186.563	8.564	185.141	1.422
-7.603	185.187	0.782	-6.430	185.969	-5.00	186.012	-3.00	178+10.000			186.607	186.162	184.892	1.270	5.00	186.312	3.00	6.43	186.269	8.564	184.847	1.422
-8.588	184.251	1.439	-6.430	185.690	-5.00	185.733	-3.00	179+0.000			186.328	185.883	184.508	1.375	5.00	186.033	3.00	6.43	185.990	9.598	183.878	2.112
-8.588	183.986	1.439	-6.430	185.425	-5.00	185.468	-3.00	179+10.000			186.063	185.618	184.214	1.404	5.00	185.768	3.00	6.43	185.725	9.598	183.613	2.112
-9.632	183.040	2.135	-6.430	185.175	-5.00	185.218	-3.00	180+0.000			185.813	185.368	183.926	1.442	5.00	185.518	3.00	6.43	185.475	10.401	182.828	2.647
-9.632	182.805	2.134	-6.430	184.939	-5.00	184.982	-3.00	180+10.000			185.577	185.132	183.683	1.449	5.00	185.282	3.00	6.43	185.239	10.401	182.592	2.647
-9.309	182.835	1.920	-6.430	184.755	-5.00	184.797	-2.28	181+0.000			185.357	184.912	183.450	1.462	5.00	184.983	1.43	6.43	184.940	11.227	181.742	3.198
-9.101	182.865	1.780	-6.430	184.645	-5.00	184.688	-2.60	181+4.442	PT		185.263	184.818	183.448	1.370	5.00	184.858	0.80	6.43	184.815	11.023	181.753	3.062
-8.507	182.937	1.385	-6.430	184.322	-5.00	184.364	-3.00	182+0.000			184.959	184.514	183.439	1.075	5.00	184.443	-1.42	6.43	184.400	10.287	181.829	2.571
-8.244	182.774	1.209	-6.430	183.983	-5.00	184.026	-3.00	183+0.000			184.621	184.176	182.753	1.423	5.00	184.026	-3.00	6.43	183.983	10.073	181.555	2.428
-7.678	182.919	0.832	-6.430	183.751	-5.00	183.794	-2.05	184+0.000			184.342	183.897	182.429	1.468	5.00	183.747	-3.00	6.43	183.704	10.470	181.010	2.684
-8.515	182.253	1.390	-6.430	183.643	-5.00	183.686	0.21	185+0.000		PTV	184.121	183.676	182.203	1.473	5.00	183.528	-2.97	6.43	183.485	9.763	181.263	2.292
-8.780	182.048	1.567	-6.430	183.615	-5.00	183.658	1.04	185+7.367	PC		184.051	183.606	182.151	1.455	5.00	183.464	-2.84	6.43	183.421	10.001	181.040	2.381
-8.780	182.023	1.567	-6.430	183.590	-5.00	183.633	1.04	185+10.000			184.026	183.581	182.132	1.449	5.00	183.439	-2.84	6.43	183.396	10.001	181.015	2.381
-9.306	181.649	1.917	-6.430	183.566	-5.00	183.609	2.47	186+0.000			183.930	183.485	182.063	1.422	5.00	183.354	-2.62	6.43	183.312	10.401	180.664	2.648
-9.306	181.553	1.918	-6.430	183.471	-5.00	183.514	2.47	186+10.000			183.835	183.390	182.134	1.256	5.00	183.259	-2.62	6.43	183.216	10.401	180.569	2.647
-9.151	181.588	1.814	-6.430	183.402	-5.00	183.445	3.00	187+0.000			183.740	183.295	182.204	1.091	5.00	183.145	-3.00	6.43	183.102	9.943	180.760	2.342
-9.151	181.493	1.814	-6.430	183.307	-5.00	183.350	3.00	187+10.000			183.645	183.200	182.163	1.037	5.00	183.050	-3.00	6.43	183.007	9.943	180.664	2.342
-8.160	182.058	1.153	-6.430	183.211	-5.00	183.254	3.00	188+0.000			183.549	183.104	182.123	0.981	5.00	182.954	-3.00	6.43	182.911	9.499	180.866	2.045
-8.160	181.963	1.153	-6.430	183.116	-5.00	183.159	3.00	188+10.000			183.454	183.009	182.158	0.851	5.00	182.859	-3.00	6.43	182.816	9.499	180.770	2.046
-8.232	181.819	1.202	-6.430	183.021	-5.00	183.064	3.00	189+0.000			183.359	182.914	182.197	0.717	5.00	182.764	-3.00	6.43	182.721	9.446	180.710	2.011
-8.232	181.724	1.202	-6.430	182.926	-5.00	182.969	3.00	189+10.000			183.264	182.819	182.278	0.541	5.00	182.669	-3.00	6.43	182.626	9.446	180.615	2.011
-7.400	182.184	0.646	-6.430	182.830	-5.00	182.873	3.00	190+0.000			183.168	182.723	182.356	0.367	5.00	182.573	-3.00	6.43	182.530	9.647	180.386	2.144
-7.400	182.088	0.647	-6.430	182.735	-5.00	182.778	3.00	190+10.000			183.073	182.628	182.246	0.382	5.00	182.478	-3.00	6.43	182.435	9.647	180.291	2.144
-6.802	182.392	0.248	-6.430	182.640	-5.00	182.683	3.00	191+0.000			182.978	182.533	182.141	0.392	5.00	182.383	-3.00	6.43	182.340	7.666	181.516	0.824
-6.802	182.297	0.248	-6.430	182.545	-5.00	182.588	3.00	191+10.000			182.883	182.438	182.413	0.025	5.00	182.288	-3.00	6.43	182.245	7.666	181.421	0.824
-6.778	182.817	-0.348	-6.430	182.469	-5.00	182.512	3.00	191+17.976			182.807	182.362	182.626	-0.264	5.00	182.212	-3.00	6.43	182.169	6.966	181.812	0.357
-6.849	182.868	-0.419	-6.430	182.449	-5.00	182.492	3.00	192+0.000			182.787	182.342	182.679	-0.337	5.00	182.192	-3.00	6.43	182.149	6.892	181.841	0.308
-6.849	182.773	-0.419	-6.430	182.354	-5.00	182.397	3.00	192+10.000			182.692	182.247	182.902	-0.655	5.00	182.097	-3.00	6.43	182.054	6.892	181.746	0.308
-7.828	183.656	-1.397	-6.430	182.259	-5.00	182.302	3.00	193+0.000			182.597	182.152	183.126	-0.974	5.00	182.002	-3.00	6.43	181.959	6.967	182.496	-0.537
-7.828	183.561	-1.397	-6.430	182.164	-5.00	182.206	3.00	193+10.000		PCV	182.501	182.056	183.122	-1.066	5.00	181.906	-3.00	6.43	181.864	6.967	182.400	-0.536
-8.573	184.211	-2.143	-6.430	182.068	-5.00	182.111	3.00	194+0.000			182.406	181.961	183.116	-1.155	5.00	181.811	-3.00	6.43	181.768	8.122	183.461	-1.693
-8.573	184.127	-2.143	-6.430	181.984	-5.00	182.027	3.00	194+10.000			182.322	181.877	182.676	-0.799	5.00	181.727	-3.00	6.43	181.684	8.122	183.377	-1.693
-7.772	183.259	-1.342	-6.430	181.917	-5.00	181.960	3.00	195+0.000			182.255	181.810	182.242	-0.432	5.00	181.660	-3.00	6.43	181.617	7.259	182.446	-0.829
-7.772	183.210	-1.341	-6.430	181.869	-5.00	181.911	3.00	195+10.000			182.206	181.761	181.648	0.113	5.00	181.611	-3.00	6.43	181.569	7.259	182.397	-0.828
-7.908	180.852	0.985	-6.430	181.837	-5.00	181.880	3.00	196+0.000			182.175	181.730	181.062	0.668	5.00	181.580	-3.00	6.43	181.537	7.309	180.952	0.585
-7.908	180.839	0.985	-6.430	181.824	-5.00	181.867	3.00	196+10.000			182.162	181.717	180.418	1.299	5.00	181.567	-3.00	6.43	181.524	7.309	180.938	0.586
-9.630	179.695	2.133	-6.430	181.828	-5.00	181.871	3.00	197+0.000			182.166	181.721	179.806	1.915	5.00	181.571	-3.00	6.43	181.528	10.236	178.991	2.537
-9.630	179.717	2.134	-6.430	181.851	-5.00	181.893	3.00	197+10.000			182.188											



Nota de Serviço de Terraplenagem																								
Lado Esquerdo									Eixo									Lado Direito						
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)
-11,194	178,665	3,176	-6,430	181,841	-5,00	181,884	2,01	198+0.000			182,228	181,783	179,233	2,550	5,00	181,649	-2,69	6,43	181,606	11,212	178,418	3,188		
-11,111	178,720	3,121	-6,430	181,841	-5,00	181,884	1,04	198+8.584	PT		182,277	181,832	179,219	2,613	5,00	181,690	-2,84	6,43	181,647	11,977	177,949	3,698		
-11,014	178,805	3,056	-6,430	181,861	-5,00	181,904	-0,25	199+0.000			182,361	181,916	179,206	2,710	5,00	181,766	-3,00	6,43	181,723	12,471	177,696	4,027		
-10,316	179,361	2,591	-6,430	181,952	-5,00	181,995	-2,51	200+0.000			182,565	182,120	179,315	2,805	5,00	181,970	-3,00	6,43	181,927	11,151	178,780	3,147		
-9,968	179,844	2,359	-6,430	182,203	-5,00	182,245	-3,00	201+0.000			182,840	182,395	179,895	2,500	5,00	182,245	-3,00	6,43	182,203	10,590	179,429	2,774		
-8,336	181,278	1,271	-6,430	182,549	-5,00	182,591	-3,00	202+0.000			183,186	182,741	181,067	1,654	5,00	182,591	-3,00	6,43	182,549	9,044	180,806	1,743		
-6,459	182,994	-0,028	-6,430	182,966	-5,00	183,008	-3,00	203+0.000			183,603	183,158	182,865	0,293	5,00	183,008	-3,00	6,43	182,966	6,798	182,720	0,246		
-7,593	184,616	-1,162	-6,430	183,454	-5,00	183,496	-3,00	204+0.000			184,091	183,646	184,407	-0,761	5,00	183,496	-3,00	6,43	183,454	7,040	184,064	-0,610		
-8,757	186,339	-2,326	-6,430	184,013	-5,00	184,055	-3,00	205+0.000			184,650	184,205	186,180	-1,975	5,00	184,097	-2,17	6,43	184,054	7,968	185,592	-1,538		
-9,083	187,312	-2,652	-6,430	184,660	-5,00	184,703	-2,66	206+0.000			185,280	184,835	187,117	-2,282	5,00	184,870	0,69	6,43	184,827	8,032	186,429	-1,602		
-9,061	187,320	-2,631	-6,430	184,689	-5,00	184,732	-2,60	206+0.789	PC	PTV	185,307	184,862	187,127	-2,265	5,00	184,902	0,80	6,43	184,859	8,006	186,434	-1,575		
-9,061	187,628	-2,631	-6,430	184,997	-5,00	185,040	-2,60	206+10.000			185,615	185,170	187,200	-2,030	5,00	185,210	0,80	6,43	185,167	8,006	186,742	-1,575		
-8,499	187,380	-2,069	-6,430	185,311	-5,00	185,354	-3,00	207+0.000			185,949	185,504	187,280	-1,776	5,00	185,654	3,00	6,43	185,611	7,464	186,645	-1,034		
-8,499	187,714	-2,069	-6,430	185,645	-5,00	185,688	-3,00	207+10.000			186,283	185,838	187,113	-1,275	5,00	185,988	3,00	6,43	185,945	7,464	186,979	-1,034		
-7,492	187,041	-1,061	-6,430	185,980	-5,00	186,023	-3,00	208+0.000			186,618	186,173	187,002	-0,829	5,00	186,323	3,00	6,43	186,280	7,557	187,407	-1,127		
-7,492	187,376	-1,062	-6,430	186,314	-5,00	186,357	-3,00	208+10.000			186,952	186,507	187,617	-1,110	5,00	186,657	3,00	6,43	186,614	7,557	187,741	-1,127		
-7,788	188,006	-1,358	-6,430	186,648	-5,00	186,691	-3,00	209+0.000			187,286	186,841	188,257	-1,416	5,00	186,991	3,00	6,43	186,948	7,639	188,157	-1,209		
-7,788	188,340	-1,357	-6,430	186,983	-5,00	187,025	-3,00	209+10.000			187,620	187,175	189,073	-1,898	5,00	187,325	3,00	6,43	187,283	7,639	188,492	-1,209		
-8,420	189,307	-1,990	-6,430	187,317	-5,00	187,360	-3,00	210+0.000			187,955	187,510	189,885	-2,375	5,00	187,660	3,00	6,43	187,617	7,728	188,915	-1,298		
-8,420	189,642	-1,991	-6,430	187,651	-5,00	187,694	-3,00	210+10.000		PCV	188,289	187,844	189,922	-2,078	5,00	187,994	3,00	6,43	187,951	7,728	189,249	-1,298		
-8,357	189,913	-1,928	-6,430	187,985	-5,00	188,028	-3,00	211+0.000			188,623	188,178	189,959	-1,781	5,00	188,328	3,00	6,43	188,285	7,403	189,259	-0,974		
-8,357	190,236	-1,927	-6,430	188,309	-5,00	188,352	-3,00	211+10.000			188,947	188,502	189,906	-1,404	5,00	188,652	3,00	6,43	188,609	7,403	189,582	-0,973		
-8,205	190,380	-1,775	-6,430	188,605	-5,00	188,648	-3,00	211+19.636			189,243	188,798	189,854	-1,056	5,00	188,948	3,00	6,43	188,905	8,000	190,474	-1,569		
-8,204	190,390	-1,775	-6,430	188,615	-5,00	188,658	-3,00	212+0.000			189,253	188,808	189,857	-1,049	5,00	188,958	3,00	6,43	188,915	8,002	190,487	-1,572		
-8,204	190,679	-1,774	-6,430	188,905	-5,00	188,948	-3,00	212+10.000			189,543	189,098	190,175	-1,077	5,00	189,248	3,00	6,43	189,205	8,002	190,777	-1,572		
-8,330	191,078	-1,900	-6,430	189,178	-5,00	189,220	-3,00	213+0.000			189,815	189,370	190,492	-1,122	5,00	189,520	3,00	6,43	189,478	7,965	191,013	-1,535		
-8,330	191,334	-1,901	-6,430	189,433	-5,00	189,476	-3,00	213+10.000			190,071	189,626	190,679	-1,053	5,00	189,776	3,00	6,43	189,733	7,965	191,268	-1,535		
-8,039	191,281	-1,609	-6,430	189,672	-5,00	189,714	-3,00	214+0.000			190,309	189,864	190,867	-1,003	5,00	190,014	3,00	6,43	189,972	7,704	191,245	-1,273		
-8,039	191,502	-1,609	-6,430	189,893	-5,00	189,936	-3,00	214+10.000			190,531	190,086	190,944	-0,858	5,00	190,236	3,00	6,43	190,193	7,704	191,467	-1,274		
-7,916	191,583	-1,485	-6,430	190,098	-5,00	190,140	-3,00	215+0.000			190,735	190,290	191,022	-0,732	5,00	190,440	3,00	6,43	190,398	7,485	191,452	-1,054		
-7,916	191,771	-1,486	-6,430	190,285	-5,00	190,328	-3,00	215+10.000			190,923	190,478	191,073	-0,595	5,00	190,628	3,00	6,43	190,585	7,485	191,639	-1,054		
-6,965	190,990	-0,535	-6,430	190,455	-5,00	190,498	-3,00	216+0.000			191,093	190,648	191,108	-0,460	5,00	190,798	3,00	6,43	190,755	8,172	192,497	-1,742		
-6,965	191,144	-0,535	-6,430	190,609	-5,00	190,652	-3,00	216+10.000			191,247	190,802	191,179	-0,377	5,00	190,952	3,00	6,43	190,909	8,172	192,651	-1,742		
-6,880	191,195	-0,450	-6,430	190,745	-5,00	190,788	-3,00	217+0.000			191,383	190,938	191,232	-0,294	5,00	191,088	3,00	6,43	191,045	6,742	191,357	-0,312		
-6,880	191,315	-0,451	-6,430	190,864	-5,00	190,907	-3,00	217+10.000			191,502	191,057	191,254	-0,197	5,00	191,207	3,00	6,43	191,164	6,742	191,476	-0,312		
-6,805	191,348	-0,376	-6,430	190,972	-5,00	191,015	-2,60	217+18.482	PT		191,590	191,145	191,273	-0,128	5,00	191,185	0,80	6,43	191,142	6,674	191,386	-0,244		
-6,843	191,394	-0,413	-6,430	190,981	-5,00	191,024	-2,71	218+0.000			191,605	191,160	191,276	-0,116	5,00	191,189	0,58	6,43	191,146	6,669	191,385	-0,239		
-6,485	191,175	-0,055	-6,430	191,120	-5,00	191,163	-3,00	219+0.000			191,758	191,313	191,310	0,003	5,00	191,200	-2,27	6,43	191,157	6,533	191,260	-0,103		
-6,537	191,313	-0,106	-6,430	191,207	-5,00	191,250	-2,98	220+0.000			191,844	191,399	191,200	0,199	5,00	191,253	-2,92	6,43	191,210	6,456	191,192	0,018		
-6,872	191,669	-0,443	-6,430	191,226	-5,00	191,269	-2,96	221+0.000		PTV	191,862	191,417	191,197	0,220	5,00	191,277	-2,81	6,43	191,234	6,588	191,128	0,106		
-6,486	191,279	-0,056	-6,430	191,223	-5,00	191,266	2,94	222+0.000			191,858	191,413	191,221	0,192	5,00	191,278	-2,71	6,43	191,235	6,489	191,293	-0,058		
-7,238	190,681	0,539	-6,430	191,220	-5,00	191,263	-2,92	223+0.000			191,854	191,409	191,232	0,177	5,00	191,278	-2,60	6,43	191,236	6,675	191,481	-0,245		
-7,090	190,777	0,439	-6,430	191,216	-5,00	191,259	-2,90	224+0.000			191,849	191,404	191,333	0,071	5,00	191,279	-2,50	6,43	191,237	6,843	191,649	-0,412		
-7,128	190,748	0,465	-6,430	191,213	-5,00	191,256	-2,88	225+0.000			191,845	191,400	191,391	0,009	5,00	191,280	-2,39	6,43	191,238	6,477	191,285	-0,047		
-6,956	191,736	-0,526	-6,430	191,210	-5,00	191,253	-2,86	226+0.000			191,841	191,396	191,437	-0,041	5,00	191,281	-2,28	6,43	191,239	6,808	191,617	-0,378		
-7,035	191,812	-0,605	-6,430	191,207	-5,00	191,250	-2,84	227+0.000			191,836	191,391	191,531	-0,140	5,00	191,282	-2,18	6,43	191,239	6,950	191,759	-0,520		
-6,468	191,178	0,025	-6,430	191,203	-5,00	191,246	-2,81	228+0.000			191,832	191,387	191,639	-0,252	5,00	191,283	-2,07	6,43	191,240	8,266	193,076	-1,836		
-7,581	192,351	-1,151	-6,430	191,200	-5,00	191,243	-2,79	229+0.000			191,828	191,383	191,857	-0,474	5,00	191,284	-1,97	6,43	191,241	7,323	192,135	-0,894		
-7,667	192,434	-1,237	-6,430	191,197	-5,00	191,240	-2,77	230+0.000			191,823	1												



Nota de Serviço de Terraplenagem																								
Lado Esquerdo									Eixo									Lado Direito						
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)
-7.203	191.967	-0.773	-6.430	191.194	-5.00	191.236	-2.75	231+0.000			191.819	191.374	191.835	-0.461	5.00	191.286	-1.75	6.43	191.243	7.152	191.966	-0.723		
-7.332	192.092	-0.902	-6.430	191.190	-5.00	191.233	-2.73	232+0.000			191.815	191.370	191.827	-0.457	5.00	191.287	-1.65	6.43	191.244	7.055	191.869	-0.625		
-7.352	192.109	-0.922	-6.430	191.187	-5.00	191.230	-2.71	233+0.000			191.810	191.365	191.803	-0.438	5.00	191.288	-1.54	6.43	191.245	7.114	191.929	-0.684		
-7.479	192.232	-1.048	-6.430	191.184	-5.00	191.227	-2.69	234+0.000			191.806	191.361	191.912	-0.551	5.00	191.289	-1.44	6.43	191.246	7.251	192.068	-0.822		
-7.365	192.115	-0.935	-6.430	191.180	-5.00	191.223	-2.67	235+0.000			191.802	191.357	191.705	-0.348	5.00	191.290	-1.33	6.43	191.247	7.093	191.911	-0.664		
-7.096	191.843	-0.666	-6.430	191.177	-5.00	191.220	-2.64	236+0.000			191.797	191.352	191.641	-0.289	5.00	191.291	-1.22	6.43	191.248	6.722	191.541	-0.293		
-7.103	191.847	-0.673	-6.430	191.174	-5.00	191.217	-2.62	237+0.000			191.793	191.348	191.623	-0.275	5.00	191.292	-1.12	6.43	191.249	6.675	191.494	-0.245		
-7.150	191.891	-0.720	-6.430	191.171	-5.00	191.213	-2.60	238+0.000			191.789	191.344	191.571	-0.227	5.00	191.293	-1.01	6.43	191.250	6.760	191.580	-0.330		
-7.048	191.786	-0.619	-6.430	191.167	-5.00	191.210	-2.58	239+0.000			191.784	191.339	191.573	-0.234	5.00	191.294	-0.91	6.43	191.251	6.520	191.341	-0.090		
-6.928	191.662	-0.498	-6.430	191.164	-5.00	191.207	-2.56	240+0.000			191.780	191.335	191.523	-0.188	5.00	191.295	-0.80	6.43	191.252	6.711	191.533	-0.281		
-6.815	191.546	-0.385	-6.430	191.161	-5.00	191.204	-2.54	241+0.000			191.776	191.331	191.467	-0.136	5.00	191.296	-0.69	6.43	191.253	6.658	191.481	-0.228		
-6.759	191.486	-0.329	-6.430	191.157	-5.00	191.200	-2.52	242+0.000			191.771	191.326	191.402	-0.076	5.00	191.297	-0.59	6.43	191.254	6.628	191.452	-0.198		
-6.946	191.670	-0.516	-6.430	191.154	-5.00	191.197	-2.50	243+0.000			191.767	191.322	191.458	-0.136	5.00	191.298	-0.48	6.43	191.255	6.713	191.538	-0.283		
-7.136	191.857	-0.706	-6.430	191.151	-5.00	191.194	-2.47	244+0.000			191.763	191.318	191.471	-0.153	5.00	191.299	-0.37	6.43	191.256	6.776	191.602	-0.366		
-7.011	191.729	-0.581	-6.430	191.148	-5.00	191.191	-2.45	245+0.000			191.758	191.313	191.364	-0.051	5.00	191.300	-0.27	6.43	191.257	6.547	191.374	-0.117		
-6.843	191.557	-0.413	-6.430	191.144	-5.00	191.187	-2.43	246+0.000			191.754	191.309	191.322	-0.013	5.00	191.301	-0.16	6.43	191.258	6.757	191.585	-0.327		
-6.544	191.255	-0.115	-6.430	191.140	-5.00	191.183	-2.41	247+0.000		PCV	191.749	191.304	191.202	0.102	5.00	191.301	-0.06	6.43	191.258	6.496	191.324	-0.066		
-6.582	191.282	-0.152	-6.430	191.130	-5.00	191.173	-2.39	248+0.000			191.738	191.293	191.200	0.093	5.00	191.295	0.05	6.43	191.252					
-6.573	191.258	-0.143	-6.430	191.115	-5.00	191.158	-2.37	249+0.000			191.721	191.276	191.137	0.139	5.00	191.284	0.16	6.43	191.241	6.454	191.225	0.016		
-6.562	191.225	-0.132	-6.430	191.093	-5.00	191.136	-2.35	250+0.000			191.698	191.253	191.058	0.195	5.00	191.266	0.26	6.43	191.223	6.464	191.257	-0.034		
-6.719	191.354	-0.289	-6.430	191.065	-5.00	191.108	-2.33	251+0.000			191.669	191.224	191.174	0.050	5.00	191.243	0.37	6.43	191.200	6.529	191.299	-0.099		
-7.033	191.634	-0.603	-6.430	191.031	-5.00	191.074	-2.31	252+0.000			191.634	191.189	191.197	-0.008	5.00	191.213	0.47	6.43	191.170	6.682	191.423	-0.253		
-6.972	191.533	-0.542	-6.430	190.991	-5.00	191.034	-2.28	253+0.000			191.594	191.149	191.168	-0.019	5.00	191.178	0.58	6.43	191.135	6.454	191.158	-0.023		
-7.092	191.607	-0.662	-6.430	190.945	-5.00	190.988	-2.26	254+0.000			191.547	191.102	191.252	-0.150	5.00	191.136	0.69	6.43	191.093	6.630	190.960	0.133		
-7.043	191.507	-0.613	-6.430	190.894	-5.00	190.936	-2.24	255+0.000			191.494	191.049	191.218	-0.169	5.00	191.088	0.79	6.43	191.045	6.721	191.337	-0.292		
-7.066	191.472	-0.636	-6.430	190.836	-5.00	190.878	-2.22	256+0.000			191.434	190.989	191.168	-0.179	5.00	191.034	0.90	6.43	190.991	6.483	191.045	-0.054		
-6.811	191.152	-0.380	-6.430	190.772	-5.00	190.814	-2.20	257+0.000			191.369	190.924	191.169	-0.245	5.00	190.975	1.00	6.43	190.932	6.944	191.446	-0.514		
-6.741	191.013	-0.312	-6.430	190.701	-5.00	190.744	-2.18	258+0.000			191.298	190.853	191.136	-0.283	5.00	190.909	1.11	6.43	190.866	6.808	191.244	-0.378		
-6.988	191.184	-0.559	-6.430	190.625	-5.00	190.668	-2.16	259+0.000			191.221	190.776	191.106	-0.330	5.00	190.837	1.22	6.43	190.794	6.869	191.233	-0.439		
-6.712	190.826	-0.283	-6.430	190.543	-5.00	190.586	-2.14	260+0.000			191.138	190.693	190.757	-0.064	5.00	190.759	1.32	6.43	190.716	6.542	190.828	-0.112		
-6.718	190.743	-0.288	-6.430	190.455	-5.00	190.498	-2.11	261+0.000			191.049	190.604	190.732	-0.128	5.00	190.675	1.43	6.43	190.632	6.716	190.918	-0.286		
-6.788	190.718	-0.357	-6.430	190.361	-5.00	190.404	-2.09	262+0.000			190.953	190.508	190.677	-0.169	5.00	190.585	1.53	6.43	190.542	6.712	190.824	-0.282		
-6.920	190.751	-0.490	-6.430	190.261	-5.00	190.304	-2.07	263+0.000			190.852	190.407	190.650	-0.243	5.00	190.489	1.64	6.43	190.446	6.749	190.766	-0.320		
-6.945	190.670	-0.516	-6.430	190.154	-5.00	190.197	-2.05	264+0.000			190.745	190.300	190.629	-0.329	5.00	190.387	1.75	6.43	190.344	6.827	190.742	-0.398		
-7.029	190.641	-0.599	-6.430	190.042	-5.00	190.085	-2.03	265+0.000			190.631	190.186	190.616	-0.430	5.00	190.279	1.85	6.43	190.236	6.975	190.782	-0.546		
-7.189	190.683	-0.759	-6.430	189.924	-5.00	189.967	-2.01	266+0.000			190.512	190.067	190.546	-0.479	5.00	190.165	1.96	6.43	190.122	7.069	190.761	-0.639		
-7.930	191.376	-1.500	-6.430	189.876	-5.00	189.919	-2.00	266+7.760	PC	PTV	190.464	190.019	190.536	-0.517	5.00	190.169	3.00	6.43	190.126	7.022	190.719	-0.593		
-7.930	191.362	-1.500	-6.430	189.862	-5.00	189.905	-2.00	266+10.000			190.450	190.005	190.533	-0.528	5.00	190.155	3.00	6.43	190.112	7.022	190.705	-0.593		
-7.259	190.629	-0.830	-6.430	189.799	-5.00	189.842	-2.01	267+0.000			190.387	189.942	190.523	-0.581	5.00	190.089	2.92	6.43	190.046	7.019	190.635	-0.589		
-7.259	190.566	-0.829	-6.430	189.737	-5.00	189.780	-2.01	267+10.000			190.325	189.880	190.491	-0.611	5.00	190.026	2.92	6.43	189.983	7.019	190.572	-0.589		
-7.424	190.668	-0.994	-6.430	189.674	-5.00	189.716	-2.01	268+0.000			190.262	189.817	190.463	-0.646	5.00	189.957	2.79	6.43	189.914	7.344	190.828	-0.914		
-7.424	190.605	-0.994	-6.430	189.611	-5.00	189.654	-2.01	268+10.000			190.199	189.754	190.401	-0.647	5.00	189.894	2.79	6.43	189.851	7.344	190.765	-0.914		
-7.330	190.448	-0.900	-6.430	189.548	-5.00	189.591	-2.02	269+0.000			190.137	189.692	190.340	-0.648	5.00	189.825	2.67	6.43	189.782	7.077	190.126	-0.344		
-7.330	190.385	-0.900	-6.430	189.485	-5.00	189.528	-2.02	269+10.000			190.074	189.629	190.269	-0.640	5.00	189.763	2.67	6.43	189.720	6.774	190.063	-0.343		
-7.348	190.340	-0.918	-6.430	189.422	-5.00	189.465	-2.03	270+0.000			190.012	189.567	190.199	-0.632	5.00	189.694	2.54	6.43	189.651	7.155	190.376	-0.725		
-7.348	190.278	-0.918	-6.430	189.360	-5.00	189.402	-2.03	270+10.000			189.949	189.504	190.110	-0.606	5.00	189.631	2.54	6.43	189.588	7.155	190.314	-0.726		
-7.135	190.001	-0.704	-6.430	189.297	-5.00	189.339	-2.04	271+0.000			189.886	189.441	190.025	-0.584	5.00	189.562	2.41	6.43	189.519	6.440	189.529	-0.010		
-7.135	189.939	-0.705	-6.430	189.234	-5.00	189.277	-2.04	271+10.000			189.824	189.379	189.933	-0.554	5.00	189.499	2.41	6.43	189.456	6.440	189.466	-0.010		
-7.002	189.743	-0.572	-6.430	189.171	-5.00	189.214	-2.05	272+0.000			189.761	189.316	189.845	-0.529	5.00	189.430	2.29</							



Nota de Serviço de Terraplenagem																								
Lado Esquerdo									Eixo									Lado Direito						
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)
-7,002	189,680	-0,572	-6,430	189,108	-5,00	189,151	-2,05	272+10,000			189,698	189,253	189,749	-0,496	5,00	189,368	2,29	6,43	189,325	6,511	189,405	-0,080		
-7,367	189,982	-0,937	-6,430	189,045	-5,00	189,088	-2,05	273+0,000			189,636	189,191	189,653	-0,462	5,00	189,299	2,16	6,43	189,256	6,966	189,792	-0,536		
-7,367	189,919	-0,936	-6,430	188,983	-5,00	189,025	-2,05	273+10,000			189,573	189,128	189,600	-0,472	5,00	189,236	2,16	6,43	189,193	6,966	189,729	-0,536		
-7,134	189,623	-0,704	-6,430	188,919	-5,00	188,962	-2,06	274+0,000			189,511	189,066	189,547	-0,481	5,00	189,167	2,03	6,43	189,124	7,048	189,743	-0,619		
-7,134	189,560	-0,703	-6,430	188,857	-5,00	188,900	-2,06	274+10,000			189,448	189,003	189,459	-0,456	5,00	189,104	2,03	6,43	189,062	7,048	189,680	-0,618		
-7,421	189,785	-0,991	-6,430	188,794	-5,00	188,837	-2,07	275+0,000			189,385	188,940	189,371	-0,431	5,00	189,035	1,90	6,43	188,993	6,699	189,261	-0,268		
-7,421	189,722	-0,991	-6,430	188,731	-5,00	188,774	-2,07	275+10,000			189,323	188,878	189,250	-0,372	5,00	188,973	1,90	6,43	188,930	6,699	189,199	-0,269		
-7,047	189,285	-0,617	-6,430	188,668	-5,00	188,711	-2,08	276+0,000			189,260	188,815	189,126	-0,311	5,00	188,904	1,78	6,43	188,861	6,703	189,133	-0,272		
-7,047	189,222	-0,617	-6,430	188,605	-5,00	188,648	-2,08	276+10,000			189,197	188,752	189,063	-0,311	5,00	188,841	1,78	6,43	188,798	6,703	189,071	-0,273		
-6,980	189,092	-0,550	-6,430	188,542	-5,00	188,585	-2,09	277+0,000			189,135	188,690	188,996	-0,306	5,00	188,772	1,65	6,43	188,729	6,470	188,769	-0,040		
-6,980	189,030	-0,550	-6,430	188,480	-5,00	188,523	-2,09	277+10,000			189,072	188,627	188,943	-0,316	5,00	188,710	1,65	6,43	188,667	6,470	188,707	-0,040		
-6,981	188,967	-0,550	-6,430	188,417	-5,00	188,460	-2,10	278+0,000		PCV	189,009	188,564	188,892	-0,328	5,00	188,641	1,52	6,43	188,598	6,000	188,598			
-6,981	188,905	-0,551	-6,430	188,354	-5,00	188,397	-2,10	278+10,000			188,947	188,502	188,836	-0,334	5,00	188,578	1,52	6,43	188,535	0,000	0,000	188,535		
-7,172	189,014	-0,742	-6,430	188,272	-5,00	188,315	-2,10	279+0,000			188,865	188,420	188,782	-0,362	5,00	188,490	1,39	6,43	188,447	6,541	188,558	-0,111		
-7,172	188,900	-0,742	-6,430	188,158	-5,00	188,201	-2,10	279+10,000			188,751	188,306	188,635	-0,329	5,00	188,376	1,39	6,43	188,333	6,541	188,444	-0,111		
-7,900	189,481	-1,470	-6,430	188,011	-5,00	188,054	-2,11	280+0,000			188,604	188,159	188,489	-0,330	5,00	188,223	1,27	6,43	188,180	7,151	188,901	-0,721		
-7,900	189,302	-1,470	-6,430	187,832	-5,00	187,874	-2,11	280+10,000			188,425	187,980	188,377	-0,397	5,00	188,043	1,27	6,43	188,000	7,151	188,721	-0,721		
-7,190	188,379	-0,760	-6,430	187,619	-5,00	187,662	-2,12	281+0,000			188,213	187,768	188,266	-0,498	5,00	187,825	1,14	6,43	187,782	7,065	188,417	-0,635		
-7,190	188,135	-0,760	-6,430	187,375	-5,00	187,418	-2,12	281+10,000			187,969	187,524	188,102	-0,578	5,00	187,581	1,14	6,43	187,538	7,065	188,173	-0,635		
-7,490	188,157	-1,060	-6,430	187,097	-5,00	187,140	-2,13	282+0,000			187,692	187,247	187,939	-0,692	5,00	187,297	1,01	6,43	187,254	7,397	188,221	-0,967		
-7,490	187,848	-1,060	-6,430	186,788	-5,00	186,831	-2,13	282+10,000			187,382	186,937	187,759	-0,822	5,00	186,988	1,01	6,43	186,945	7,397	187,911	-0,966		
-7,972	187,968	-1,543	-6,430	186,445	-5,00	186,488	-2,14	283+0,000			187,040	186,595	187,581	-0,986	5,00	186,639	0,89	6,43	186,596	7,749	187,916	-1,320		
-7,972	187,613	-1,543	-6,430	186,070	-5,00	186,113	-2,14	283+10,000		PTV	186,665	186,220	187,464	-1,244	5,00	186,264	0,89	6,43	186,222	7,749	187,541	-1,319		
-8,543	187,785	-2,113	-6,430	185,672	-5,00	185,715	-2,14	284+0,000			186,267	185,822	187,346	-1,524	5,00	185,860	0,76	6,43	185,817	8,140	187,527	-1,710		
-8,543	187,386	-2,113	-6,430	185,273	-5,00	185,316	-2,14	284+10,000			185,868	185,423	187,038	-1,615	5,00	185,461	0,76	6,43	185,418	8,140	187,128	-1,710		
-8,970	187,414	-2,541	-6,430	184,873	-5,00	184,916	-2,15	285+0,000			185,469	185,024	186,729	-1,705	5,00	185,055	0,63	6,43	185,012	8,587	187,169	-2,157		
-8,970	187,014	-2,540	-6,430	184,474	-5,00	184,517	-2,15	285+10,000		PCV	185,070	184,625	186,969	-1,344	5,00	184,656	0,63	6,43	184,613	8,587	186,770	-2,157		
-8,801	186,446	-2,371	-6,430	184,075	-5,00	184,118	-2,16	286+0,000			184,671	184,226	185,213	-0,987	5,00	184,251	0,50	6,43	184,208	9,419	187,197	-2,989		
-8,801	186,062	-2,371	-6,430	183,691	-5,00	183,734	-2,16	286+10,000			184,287	183,842	184,258	-0,416	5,00	183,867	0,50	6,43	183,824	9,419	186,813	-2,989		
-6,577	183,235	0,098	-6,430	183,333	-5,00	183,376	-2,17	287+0,000			183,930	183,485	183,309	0,176	5,00	183,504	0,38	6,43	183,461	8,352	185,363	-1,922		
-6,577	182,905	0,098	-6,430	183,003	-5,00	183,046	-2,17	287+10,000			183,599	183,154	182,284	0,870	5,00	183,173	0,38	6,43	183,130	8,352	185,052	-1,922		
-8,997	180,988	1,711	-6,430	182,699	-5,00	182,742	-2,18	288+0,000			183,296	182,851	181,267	1,584	5,00	182,863	0,25	6,43	182,820	7,740	181,947	0,873		
-8,997	180,711	1,711	-6,430	182,422	-5,00	182,465	-2,18	288+10,000			183,019	182,574	180,340	2,234	5,00	182,587	0,25	6,43	182,544	7,740	181,670	0,874		
-10,483	179,470	2,702	-6,430	182,172	-5,00	182,215	-2,19	289+0,000			182,769	182,324	179,417	2,907	5,00	182,330	0,12	6,43	182,287	9,465	180,264	2,023		
-10,483	179,247	2,702	-6,430	181,949	-5,00	181,992	-2,19	289+10,000			182,546	182,101	178,985	3,116	5,00	182,107	0,12	6,43	182,064	9,465	180,040	2,024		
-13,219	177,244	4,525	-6,430	181,769	-5,00	181,812	-2,19	289+19,044			182,367	181,922	178,592	3,330	5,00	181,922	0,00	6,43	181,879	10,051	176,799	5,080		
-13,345	177,142	4,610	-6,430	181,752	-5,00	181,795	-2,19	290+0,000			182,349	181,904	178,551	3,353	5,00	181,904	-0,01	6,43	181,861	14,270	176,635	5,226		
-13,345	176,972	4,610	-6,430	181,582	-5,00	181,625	-2,19	290+10,000			182,180	181,735	178,234	3,501	5,00	181,734	-0,01	6,43	181,692	14,270	176,465	5,227		
-17,204	175,286	6,153	-6,430	181,439	-5,00	181,482	-2,20	291+0,000			182,037	181,592	177,923	3,669	5,00	181,585	-0,13	6,43	181,542	17,259	175,353	6,189		
-17,204	175,170	6,153	-6,430	181,323	-5,00	181,366	-2,20	291+10,000			181,921	181,476	177,742	3,734	5,00	181,469	-0,13	6,43	181,426	17,259	175,237	6,189		
-18,585	174,160	7,073	-6,430	181,233	-5,00	181,276	-2,21	292+0,000			181,831	181,386	177,565	3,821	5,00	181,373	-0,26	6,43	181,330	18,299	174,447	6,883		
-18,585	174,097	7,073	-6,430	181,170	-5,00	181,213	-2,21	292+10,000			181,769	181,324	177,356	3,966	5,00	181,311	-0,26	6,43	181,268	18,299	174,365	6,883		
-18,820	173,904	7,230	-6,430	181,134	-5,00	181,177	-2,22	293+0,000			181,733	181,288	177,154	4,134	5,00	181,268	-0,39	6,43	181,225	19,082	173,821	7,404		
-18,820	173,895	7,230	-6,430	181,125	-5,00	181,168	-2,22	293+10,000			181,724	181,279	177,313	3,966	5,00	181,259	-0,39	6,43	181,216	19,082	173,812	7,404		
-17,360	174,885	6,257	-6,430	181,142	-5,00	181,185	-2,23	294+0,000			181,741	181,296	177,480	3,816	5,00	181,270	-0,52	6,43	181,228	18,535	174,188	7,040		
-17,360	174,930	6,256	-6,430	181,186	-5,00	181,229	-2,23	294+10,000			181,786	181,341	178,105	3,236	5,00	181,315	-0,52	6,43	181,272	18,535	174,232	7,040		
-13,452	176,576	4,681	-6,430	181,257	-5,00	181,300	-2,23	295+0,000			181,857	181,412	178,736	2,676	5,00	181,380	-0,64	6,43	181,337	13,726	176,473	4,864		
-13,452	176,674	4,681	-6,430	181,355	-5,00	181,398	-2,23	295+10,000			181,955	181,510	179,595	1,915	5,00	181,478	-0,64	6,43	181,435	13,726	176,571	4,864		
-8,215	180,290	1,189	-6,430	181,479	-5,00	181,522	-2,24	296+0,000			182,080	181,635</												



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo					Lado Direito										
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Altura (m)
-8,215	180,441	1,190	-6,430	181,631	-5,00	181,674	-2,24	296+10,000			182,231	181,786	183,258	-1,472	5,00	181,747	-0,77	6,43	181,705	8,115	180,581	1,124		
-11,765	187,144	-5,335	-6,430	181,809	-5,00	181,852	-2,25	297+0,000			182,409	181,964	186,014	-4,050	5,00	181,919	-0,90	6,43	181,876	8,910	184,357	-2,481		
-11,765	187,349	-5,335	-6,430	182,014	-5,00	182,057	-2,25	297+10,000			182,614	182,169	186,830	-4,661	5,00	182,124	-0,90	6,43	182,081	8,910	184,562	-2,481		
-12,348	188,163	-5,918	-6,430	182,245	-5,00	182,288	-2,26	298+0,000			182,846	182,401	187,648	-5,247	5,00	182,350	-1,02	6,43	182,307	9,799	185,676	-3,369		
-12,348	188,422	-5,918	-6,430	182,504	-5,00	182,547	-2,26	298+10,000			183,105	182,660	188,195	-5,535	5,00	182,608	-1,02	6,43	182,565	9,799	185,935	-3,370		
-12,273	188,632	-5,843	-6,430	182,789	-5,00	182,832	-2,27	299+0,000			183,390	182,945	188,747	-5,802	5,00	182,887	-1,15	6,43	182,844	11,057	187,472	-4,628		
-12,273	188,944	-5,843	-6,430	183,101	-5,00	183,144	-2,27	299+10,000			183,702	183,257	188,704	-5,447	5,00	183,199	-1,15	6,43	183,156	11,057	187,784	-4,628		
-11,868	188,877	-5,438	-6,430	183,439	-5,00	183,482	-2,28	300+0,000		PTV	184,041	183,596	188,664	-5,068	5,00	183,532	-1,28	6,43	183,489	10,394	187,453	-3,964		
-11,868	189,231	-5,438	-6,430	183,793	-5,00	183,836	-2,28	300+10,000			184,395	183,950	188,528	-4,578	5,00	183,886	-1,28	6,43	183,843	10,394	187,808	-3,965		
-10,733	188,450	-4,303	-6,430	184,147	-5,00	184,190	-2,28	301+0,000			184,749	184,304	188,400	-4,096	5,00	184,234	-1,41	6,43	184,191	10,476	188,237	-4,046		
-10,733	188,804	-4,303	-6,430	184,501	-5,00	184,544	-2,28	301+10,000			185,103	184,658	188,477	-3,819	5,00	184,588	-1,41	6,43	184,545	10,476	188,591	-4,046		
-10,044	188,469	-3,614	-6,430	184,855	-5,00	184,898	-2,29	302+0,000			185,457	185,012	188,553	-3,541	5,00	184,936	-1,53	6,43	184,893	9,938	188,401	-3,508		
-10,044	188,823	-3,614	-6,430	185,209	-5,00	185,252	-2,29	302+10,000			185,811	185,366	188,609	-3,243	5,00	185,290	-1,53	6,43	185,247	9,938	188,755	-3,508		
-9,648	188,780	-3,217	-6,430	185,563	-5,00	185,606	-2,30	303+0,000		PCV	186,166	185,721	188,665	-2,944	5,00	185,638	-1,66	6,43	185,595	9,200	188,364	-2,769		
-9,648	189,133	-3,218	-6,430	185,915	-5,00	185,958	-2,30	303+10,000			186,518	186,073	188,651	-2,578	5,00	185,990	-1,66	6,43	185,947	9,200	188,717	-2,770		
-8,970	188,785	-2,539	-6,430	186,246	-5,00	186,289	-2,31	304+0,000			186,849	186,404	188,638	-2,234	5,00	186,315	-1,79	6,43	186,272	8,515	188,356	-2,084		
-8,970	189,088	-2,540	-6,430	186,548	-5,00	186,591	-2,31	304+10,000			187,151	186,706	188,655	-1,949	5,00	186,617	-1,79	6,43	186,574	8,515	188,658	-2,084		
-8,243	188,634	-1,813	-6,430	186,821	-5,00	186,864	-2,32	305+0,000			187,425	186,980	188,677	-1,697	5,00	186,884	-1,92	6,43	186,841	7,857	188,268	-1,427		
-8,243	188,879	-1,813	-6,430	187,066	-5,00	187,109	-2,32	305+10,000			187,670	187,225	188,586	-1,341	5,00	187,129	-1,92	6,43	187,086	7,857	188,513	-1,427		
-7,599	188,451	-1,169	-6,430	187,282	-5,00	187,325	-2,32	306+0,000			187,886	187,441	188,473	-1,032	5,00	187,339	-2,04	6,43	187,296	7,275	188,141	-0,845		
-7,599	188,639	-1,169	-6,430	187,470	-5,00	187,513	-2,32	306+10,000			188,074	187,629	188,311	-0,682	5,00	187,527	-2,04	6,43	187,484	7,275	188,329	-0,845		
-7,084	188,283	-0,654	-6,430	187,629	-5,00	187,671	-2,33	307+0,000			188,233	187,788	188,173	-0,385	5,00	187,680	-2,17	6,43	187,637	6,778	187,985	-0,348		
-7,084	188,414	-0,655	-6,430	187,759	-5,00	187,802	-2,33	307+10,000			188,364	187,919	188,228	-0,309	5,00	187,810	-2,17	6,43	187,767	6,778	188,115	-0,348		
-6,952	188,383	-0,522	-6,430	187,861	-5,00	187,904	-2,34	308+0,000			188,466	188,021	188,283	-0,262	5,00	187,906	-2,30	6,43	187,863	6,575	188,008	-0,145		
-6,952	188,457	-0,522	-6,430	187,935	-5,00	187,977	-2,34	308+10,000			188,540	188,095	188,332	-0,237	5,00	187,980	-2,30	6,43	187,937	6,575	188,082	-0,145		
-6,880	188,429	-0,450	-6,430	187,979	-5,00	188,022	-2,35	309+0,000			188,585	188,140	188,385	-0,245	5,00	188,018	-2,43	6,43	187,975	6,826	188,371	-0,396		
-6,880	188,445	-0,449	-6,430	187,996	-5,00	188,038	-2,35	309+10,000			188,601	188,156	188,470	-0,314	5,00	188,035	-2,43	6,43	187,992	6,826	188,387	-0,395		
-7,094	188,647	-0,664	-6,430	187,983	-5,00	188,026	-2,36	310+0,000		PTV	188,589	188,144	188,558	-0,414	5,00	188,016	-2,55	6,43	187,973	6,974	188,517	-0,544		
-7,094	188,608	-0,664	-6,430	187,944	-5,00	187,987	-2,36	310+10,000			188,550	188,105	188,540	-0,435	5,00	187,977	-2,55	6,43	187,934	6,974	188,478	-0,544		
-7,200	188,669	-0,770	-6,430	187,899	-5,00	187,942	-2,37	311+0,000			188,505	188,060	188,526	-0,466	5,00	187,926	-2,68	6,43	187,883	6,653	188,106	-0,223		
-7,200	188,624	-0,770	-6,430	187,854	-5,00	187,897	-2,37	311+10,000			188,460	188,015	188,523	-0,508	5,00	187,881	-2,68	6,43	187,838	6,653	188,062	-0,224		
-7,181	188,560	-0,751	-6,430	187,809	-5,00	187,852	-2,37	312+0,000			188,416	187,971	188,524	-0,553	5,00	187,830	-2,81	6,43	187,787	6,759	188,116	-0,329		
-7,181	188,516	-0,752	-6,430	187,764	-5,00	187,807	-2,37	312+10,000			188,371	187,926	188,467	-0,541	5,00	187,785	-2,81	6,43	187,742	6,759	188,072	-0,330		
-7,271	188,560	-0,841	-6,430	187,719	-5,00	187,762	-2,38	313+0,000			188,326	187,881	188,410	-0,529	5,00	187,734	-2,93	6,43	187,691	6,640	187,902	-0,211		
-7,271	188,515	-0,841	-6,430	187,674	-5,00	187,717	-2,38	313+10,000			188,281	187,836	188,233	-0,397	5,00	187,689	-2,93	6,43	187,647	6,640	187,857	-0,210		
-7,071	188,314	-0,642	-6,430	187,672	-5,00	187,715	-2,39	313+10,329		PT	188,280	187,835	188,227	-0,392	5,00	187,985	3,00	6,43	187,942	6,533	188,045	-0,103		
-6,908	188,107	-0,478	-6,430	187,629	-5,00	187,672	-2,39	314+0,000			188,236	187,791	188,057	-0,266	5,00	187,939	2,96	6,43	187,897	6,770	188,237	-0,340		
-6,796	187,905	-0,366	-6,430	187,539	-5,00	187,582	-2,40	315+0,000			188,147	187,702	187,797	-0,095	5,00	187,846	2,88	6,43	187,803	6,440	187,162	-0,009		
-6,716	187,735	-0,286	-6,430	187,449	-5,00	187,492	-2,41	316+0,000			188,057	187,612	187,737	-0,125	5,00	187,752	2,80	6,43	187,709	6,504	187,783	-0,074		
-6,699	187,628	-0,269	-6,430	187,359	-5,00	187,402	-2,41	317+0,000			187,968	187,523	187,651	-0,128	5,00	187,659	2,72	6,43	187,616	6,435	187,162	-0,004		
-6,720	187,559	-0,290	-6,430	187,269	-5,00	187,312	-2,42	318+0,000			187,878	187,433	187,585	-0,152	5,00	187,565	2,64	6,43	187,522	6,507	187,600	-0,078		
-6,892	187,641	-0,462	-6,430	187,179	-5,00	187,222	-2,43	319+0,000			187,788	187,343	187,516	-0,175	5,00	187,471	2,56	6,43	187,429	6,560	187,559	-0,130		
-6,893	187,552	-0,463	-6,430	187,089	-5,00	187,132	-2,44	320+0,000			187,699	187,254	187,382	-0,128	5,00	187,378	2,48	6,43	187,335	6,553	187,253	-0,082		
-6,963	187,532	-0,533	-6,430	186,999	-5,00	187,042	-2,45	321+0,000			187,609	187,164	187,344	-0,180	5,00	187,284	2,40	6,43	187,241	6,660	187,472	-0,231		
-6,936	187,415	-0,506	-6,430	186,909	-5,00	186,952	-2,46	322+0,000			187,520	187,075	187,248	-0,173	5,00	187,191	2,32	6,43	187,148	6,444	187,162	-0,014		
-7,010	187,399	-0,580	-6,430	186,819	-5,00	186,862	-2,46	323+0,000			187,430	186,985	187,227	-0,242	5,00	187,097	2,24	6,43	187,054	6,557	187,181	-0,127		
-7,024	187,323	-0,594	-6,430	186,729	-5,00	186,772	-2,47	324+0,000			187,340	186,895	187,132	-0,237	5,00	187,004	2,16	6,43	186,961	6,624	187,154	-0,193		
-6,822	187,031	-0,392	-6,430	186,639	-5,00	186,682	-2,48	325+0,000			187,251	186,806	187,082	-0,276	5,00	186,910	2,08	6,43	186,867	6,583	187,020	-0,153		
-7,137	187,256	-0,707	-6,430	186,549	-5,00	186,592	-2,49	326+0,000			187,161	186,716												



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo						Lado Direito									
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Altura (m)
-6.929	186.958	-0.499	-6.430	186.459	-5.00	186.502	-2.50	327+0.000			187.072	186.627	186.909	-0.282	5.00	186.723	1.92	6.43	186.680	6.655	186.905	-0.225		
-6.910	186.849	-0.480	-6.430	186.369	-5.00	186.412	-2.50	328+0.000			186.982	186.537	186.798	-0.261	5.00	186.629	1.84	6.43	186.586	6.679	186.835	-0.249		
-6.887	186.736	-0.457	-6.430	186.279	-5.00	186.322	-2.51	329+0.000			186.893	186.448	186.737	-0.289	5.00	186.536	1.76	6.43	186.493	6.702	186.765	-0.272		
-7.176	186.935	-0.746	-6.430	186.189	-5.00	186.232	-2.52	330+0.000			186.803	186.358	186.694	-0.336	5.00	186.442	1.68	6.43	186.399	6.625	186.594	-0.195		
-6.933	186.602	-0.503	-6.430	186.099	-5.00	186.142	-2.53	331+0.000			186.713	186.268	186.688	-0.420	5.00	186.348	1.60	6.43	186.305	6.690	186.565	-0.260		
-7.093	186.672	-0.663	-6.430	186.009	-5.00	186.052	-2.54	332+0.000			186.624	186.179	186.686	-0.507	5.00	186.255	1.52	6.43	186.212	6.744	186.526	-0.314		
-7.080	186.569	-0.650	-6.430	185.919	-5.00	185.962	-2.55	333+0.000			186.534	186.089	186.485	-0.396	5.00	186.161	1.44	6.43	186.118	6.793	186.481	-0.363		
-6.819	186.218	-0.389	-6.430	185.829	-5.00	185.872	-2.55	334+0.000			186.445	186.000	186.324	-0.324	5.00	186.068	1.36	6.43	186.025	6.616	186.211	-0.186		
-6.995	186.304	-0.565	-6.430	185.739	-5.00	185.782	-2.56	335+0.000			186.355	185.910	186.333	-0.423	5.00	185.974	1.28	6.43	185.931	6.772	186.273	-0.342		
-7.063	186.282	-0.633	-6.430	185.649	-5.00	185.692	-2.57	336+0.000			186.265	185.820	186.262	-0.442	5.00	185.880	1.20	6.43	185.838	6.799	186.206	-0.368		
-7.260	186.389	-0.830	-6.430	185.559	-5.00	185.602	-2.58	337+0.000			186.176	185.731	186.270	-0.539	5.00	185.787	1.12	6.43	185.744	6.989	186.303	-0.559		
-7.207	186.246	-0.777	-6.430	185.469	-5.00	185.512	-2.59	338+0.000			186.086	185.641	186.239	-0.598	5.00	185.693	1.04	6.43	185.650	7.055	186.276	-0.626		
-7.244	186.193	-0.814	-6.430	185.379	-5.00	185.422	-2.59	339+0.000			185.997	185.552	186.178	-0.626	5.00	185.600	0.96	6.43	185.557	6.942	186.069	-0.512		
-7.179	186.038	-0.749	-6.430	185.289	-5.00	185.332	-2.60	340+0.000			185.907	185.462	185.836	-0.374	5.00	185.506	0.88	6.43	185.463	6.889	185.922	-0.459		
-6.873	185.942	-0.443	-6.430	185.199	-5.00	185.242	-2.61	341+0.000			185.817	185.372	185.651	-0.279	5.00	185.412	0.80	6.43	185.370	6.650	185.589	-0.219		
-6.861	185.840	-0.431	-6.430	185.109	-5.00	185.152	-2.62	342+0.000			185.728	185.283	185.604	-0.321	5.00	185.319	0.72	6.43	185.276	6.743	185.589	-0.313		
-6.756	185.735	-0.326	-6.430	185.019	-5.00	185.062	-2.63	343+0.000			185.638	185.193	185.461	-0.268	5.00	185.225	0.64	6.43	185.182	6.449	185.201	-0.019		
-7.066	185.565	-0.636	-6.430	184.929	-5.00	184.972	-2.64	344+0.000			185.549	185.104	185.389	-0.285	5.00	185.132	0.56	6.43	185.089	6.572	185.231	-0.142		
-6.814	185.223	-0.384	-6.430	184.839	-5.00	184.882	-2.64	345+0.000			185.459	185.014	185.248	-0.234	5.00	185.038	0.48	6.43	184.995	6.762	185.327	-0.332		
-7.022	185.341	-0.592	-6.430	184.749	-5.00	184.792	-2.65	346+0.000			185.370	184.925	185.292	-0.367	5.00	184.944	0.40	6.43	184.902	6.886	185.357	-0.455		
-7.087	185.316	-0.657	-6.430	184.659	-5.00	184.702	-2.66	347+0.000			185.280	184.835	185.224	-0.389	5.00	184.851	0.32	6.43	184.808	6.889	185.247	-0.439		
-7.157	185.296	-0.727	-6.430	184.569	-5.00	184.612	-2.67	348+0.000			185.190	184.745	185.122	-0.377	5.00	184.757	0.24	6.43	184.714	6.880	185.164	-0.450		
-7.124	185.173	-0.694	-6.430	184.479	-5.00	184.522	-2.68	349+0.000			185.101	184.656	185.054	-0.398	5.00	184.664	0.16	6.43	184.621	6.832	185.023	-0.402		
-7.031	184.990	-0.601	-6.430	184.389	-5.00	184.432	-2.68	350+0.000			185.011	184.566	184.976	-0.410	5.00	184.570	0.08	6.43	184.527	6.933	185.030	-0.503		
-6.933	184.802	-0.503	-6.430	184.299	-5.00	184.342	-2.69	351+0.000			184.922	184.477	184.872	-0.395	5.00	184.477	0.00	6.43	184.434	6.881	184.885	-0.451		
-7.221	185.000	-0.791	-6.430	184.209	-5.00	184.252	-2.70	352+0.000			184.832	184.387	184.822	-0.435	5.00	184.383	-0.08	6.43	184.340	6.935	184.845	-0.505		
-7.136	184.826	-0.707	-6.430	184.119	-5.00	184.162	-2.71	353+0.000			184.742	184.297	184.793	-0.496	5.00	184.289	-0.16	6.43	184.246	6.800	184.616	-0.370		
-7.086	184.685	-0.656	-6.430	184.029	-5.00	184.072	-2.72	354+0.000			184.653	184.208	184.574	-0.366	5.00	184.196	-0.24	6.43	184.153	6.787	184.510	-0.357		
-7.111	184.620	-0.681	-6.430	183.939	-5.00	183.982	-2.73	355+0.000			184.563	184.118	184.424	-0.306	5.00	184.102	-0.32	6.43	184.059	6.810	184.440	-0.381		
-7.016	184.435	-0.586	-6.430	183.849	-5.00	183.892	-2.73	356+0.000			184.474	184.029	184.314	-0.285	5.00	184.009	-0.40	6.43	183.966	6.743	184.279	-0.313		
-7.046	184.375	-0.616	-6.430	183.759	-5.00	183.802	-2.74	357+0.000			184.384	183.939	184.171	-0.232	5.00	183.915	-0.48	6.43	183.872	6.752	184.194	-0.322		
-6.744	183.983	-0.314	-6.430	183.669	-5.00	183.712	-2.75	358+0.000			184.294	183.849	184.152	-0.303	5.00	183.821	-0.56	6.43	183.778	6.591	183.940	-0.162		
-6.788	183.937	-0.358	-6.430	183.579	-5.00	183.622	-2.76	359+0.000			184.205	183.760	184.095	-0.335	5.00	183.728	-0.64	6.43	183.685	6.703	183.958	-0.273		
-6.889	183.948	-0.459	-6.430	183.489	-5.00	183.532	-2.77	360+0.000			184.115	183.670	183.859	-0.189	5.00	183.634	-0.72	6.43	183.591	6.685	183.846	-0.255		
-6.800	183.769	-0.370	-6.430	183.399	-5.00	183.442	-2.78	361+0.000			184.026	183.581	183.707	-0.126	5.00	183.541	-0.80	6.43	183.498	6.520	183.588	-0.090		
-6.811	183.690	-0.381	-6.430	183.309	-5.00	183.352	-2.78	362+0.000			183.936	183.491	183.581	-0.090	5.00	183.447	-0.88	6.43	183.404	6.541	183.330	0.074		
-6.668	183.457	-0.238	-6.430	183.219	-5.00	183.262	-2.79	363+0.000			183.846	183.401	183.411	-0.010	5.00	183.353	-0.96	6.43	183.311	6.483	183.364	-0.053		
-6.518	183.217	-0.088	-6.430	183.129	-5.00	183.172	-2.80	364+0.000			183.757	183.312	183.287	0.025	5.00	183.260	-1.04	6.43	183.217	6.466	183.253	-0.036		
-6.778	183.387	-0.348	-6.430	183.039	-5.00	183.082	-2.81	365+0.000			183.667	183.222	183.207	0.015	5.00	183.166	-1.12	6.43	183.123	6.456	183.149	-0.026		
-6.617	182.824	0.125	-6.430	182.949	-5.00	182.992	-2.82	366+0.000			183.578	183.133	183.091	0.042	5.00	183.073	-1.20	6.43	183.030	6.492	182.989	0.041		
-6.508	182.937	-0.078	-6.430	182.859	-5.00	182.902	-2.82	367+0.000			183.488	183.043	182.946	0.097	5.00	182.979	-1.28	6.43	182.936	6.554	182.853	0.083		
-6.497	182.836	-0.067	-6.430	182.769	-5.00	182.812	-2.83	368+0.000			183.399	182.954	182.880	0.074	5.00	182.885	-1.36	6.43	182.843	6.510	182.789	0.054		
-6.598	182.847	-0.168	-6.430	182.679	-5.00	182.722	-2.84	369+0.000			183.309	182.864	182.861	0.003	5.00	182.792	-1.44	6.43	182.749	6.578	182.650	0.099		
-6.544	182.703	-0.114	-6.430	182.589	-5.00	182.632	-2.85	370+0.000			183.219	182.774	182.691	0.083	5.00	182.698	-1.52	6.43	182.655	6.541	182.581	0.074		
-6.513	182.444	0.055	-6.430	182.499	-5.00	182.542	-2.86	371+0.000			183.130	182.685	182.589	0.096	5.00	182.605	-1.60	6.43	182.562	6.541	182.488	0.074		
-6.451	182.430	-0.021	-6.430	182.409	-5.00	182.452	-2.87	372+0.000			183.040	182.595	182.469	0.126	5.00	182.511	-1.68	6.43	182.468	6.534	182.379	0.089		
-6.566	182.455	-0.136	-6.430	182.319	-5.00	182.362	-2.87	373+0.000			182.951	182.506	182.314	0.192	5.00	182.418	-1.76	6.43	182.375	6.534	182.305	0.070		
-6.442	182.241	-0.012	-6.430	182.229	-5.00	182.272	-2.88	374+0.000			182.861	182.416	182.152	0.264	5.00	182.324	-1.84	6.43	182.281	6.568	182.189	0.092		
-6.473	182.111	0.028	-6.430	182.139	-5.00	182.182	-2.89	375+0.000			182.771	182.326	182.075	0.251	5.00	182.2								



Nota de Serviço de Terraplenagem																										
Lado Esquerdo									Eixo									Lado Direito								
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset				
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)
-6.508	181.997	0.052	-6.430	182.049	-5.00	182.092	-2.90	376+0.000			182.682	182.237	181.958	0.279	5.00	182.137	-2.00	6.43	182.094	6.717	181.902	0.192				
-6.621	182.150	-0.191	-6.430	181.959	-5.00	182.002	-2.91	377+0.000			182.592	182.147	182.032	0.115	5.00	182.043	-2.08	6.43	182.000	6.499	182.070	-0.070				
-6.466	181.905	-0.036	-6.430	181.869	-5.00	181.912	-2.91	378+0.000			182.503	182.058	182.046	0.012	5.00	181.950	-2.16	6.43	181.907	6.593	182.069	-0.162				
-6.460	181.809	-0.030	-6.430	181.779	-5.00	181.822	-2.92	379+0.000			182.413	181.968	181.995	-0.027	5.00	181.856	-2.24	6.43	181.813	6.465	181.848	-0.035				
-7.055	181.273	0.416	-6.430	181.689	-5.00	181.732	-2.93	380+0.000			182.323	181.878	181.820	0.058	5.00	181.762	-2.32	6.43	181.719	6.605	181.603	0.116				
0.000	0.000	181.599	-6.430	181.599	-5.00	181.642	-2.94	381+0.000			182.234	181.789	181.713	0.076	5.00	181.669	-2.40	6.43	181.626	6.497	181.581	0.045				
-6.436	181.515	-0.006	-6.430	181.509	-5.00	181.552	-2.95	382+0.000			182.144	181.699	181.731	-0.032	5.00	181.575	-2.48	6.43	181.532	6.565	181.668	-0.136				
-6.829	181.153	0.266	-6.430	181.419	-5.00	181.462	-2.96	383+0.000			182.055	181.610	181.792	-0.182	5.00	181.482	-2.56	6.43	181.439	6.640	181.648	-0.209				
-6.530	181.262	0.067	-6.430	181.329	-5.00	181.372	-2.96	384+0.000			181.965	181.520	181.526	-0.006	5.00	181.388	-2.64	6.43	181.345	6.445	181.360	-0.015				
-6.730	181.039	0.200	-6.430	181.239	-5.00	181.282	-2.97	385+0.000			181.876	181.431	181.443	-0.012	5.00	181.294	-2.72	6.43	181.252	6.885	180.948	0.304				
-6.548	181.070	0.079	-6.430	181.149	-5.00	181.192	-2.98	386+0.000			181.786	181.341	181.519	-0.178	5.00	181.201	-2.80	6.43	181.158	6.837	181.565	-0.407				
-6.763	180.837	0.222	-6.430	181.059	-5.00	181.102	-2.99	387+0.000			181.696	181.251	181.440	-0.189	5.00	181.107	-2.88	6.43	181.064	6.540	181.175	-0.111				
-6.566	180.878	0.091	-6.430	180.969	-5.00	181.012	-3.00	388+0.000			181.607	181.162	181.514	-0.352	5.00	181.014	-2.96	6.43	180.971	6.827	181.368	-0.397				
-6.552	181.033	-0.122	-6.430	180.911	-5.00	180.954	-2.36	389+0.000			181.517	181.072	181.429	-0.357	5.00	180.922	-3.00	6.43	180.879	6.872	181.321	-0.442				
-6.922	181.374	-0.492	-6.430	180.882	-5.00	180.925	-1.16	390+0.000			181.428	180.983	181.413	-0.430	5.00	180.833	-3.00	6.43	180.790	6.776	181.135	-0.345				
-7.008	181.431	-0.578	-6.430	180.853	-5.00	180.896	0.00	390+19.314	TS		181.341	180.896	181.531	-0.635	5.00	180.746	-3.00	6.43	180.703	7.031	181.304	-0.601				
-7.007	181.429	-0.577	-6.430	180.852	-5.00	180.895	0.04	391+0.000			181.338	180.893	181.534	-0.641	5.00	180.743	-3.00	6.43	180.700	7.036	181.306	-0.606				
-7.007	181.384	-0.577	-6.430	180.807	-5.00	180.850	0.04	391+10.000			181.293	180.848	181.510	-0.662	5.00	180.698	-3.00	6.43	180.655	7.036	181.261	-0.606				
-6.920	181.313	-0.490	-6.430	180.823	-5.00	180.865	1.24	392+0.000			181.248	180.803	181.486	-0.683	5.00	180.653	-3.00	6.43	180.611	7.178	181.359	-0.748				
-6.920	181.268	-0.490	-6.430	180.778	-5.00	180.821	1.24	392+10.000			181.204	180.759	181.490	-0.731	5.00	180.609	-3.00	6.43	180.566	7.178	181.314	-0.748				
-6.650	181.013	-0.220	-6.430	180.793	-5.00	180.836	2.44	393+0.000			181.159	180.714	181.494	-0.780	5.00	180.564	-3.00	6.43	180.521	7.078	181.169	-0.648				
-6.650	180.969	-0.221	-6.430	180.748	-5.00	180.791	2.44	393+10.000			181.114	180.669	181.500	-0.831	5.00	180.519	-3.00	6.43	180.476	7.078	181.124	-0.648				
-6.987	181.320	-0.557	-6.430	180.763	-5.00	180.806	3.64	394+0.000			181.069	180.624	181.505	-0.881	5.00	180.442	-3.64	6.43	180.399	7.396	181.365	-0.966				
-6.987	181.276	-0.557	-6.430	180.719	-5.00	180.761	3.64	394+10.000			181.024	180.579	181.452	-0.873	5.00	180.397	-3.64	6.43	180.354	7.396	181.320	-0.966				
-7.134	181.438	-0.704	-6.430	180.734	-5.00	180.777	4.84	395+0.000			180.980	180.535	181.259	-0.724	5.00	180.293	-4.84	6.43	180.250	7.275	181.095	-0.845				
-7.134	181.393	-0.704	-6.430	180.689	-5.00	180.732	4.84	395+10.000			180.935	180.490	180.952	-0.462	5.00	180.248	-4.84	6.43	180.205	7.275	181.050	-0.845				
-6.951	181.226	-0.521	-6.430	180.705	-5.00	180.748	6.00	395+19.314	SC		180.893	180.448	181.301	-0.853	5.00	180.148	-6.00	6.43	180.105	7.687	181.362	-1.257				
-6.998	181.270	-0.568	-6.430	180.702	-5.00	180.745	6.00	396+0.000			180.890	180.445	181.283	-0.838	5.00	180.145	-6.00	6.43	180.102	7.674	181.346	-1.244				
-6.998	181.226	-0.569	-6.430	180.657	-5.00	180.700	6.00	396+10.000			180.845	180.400	181.223	-0.823	5.00	180.100	-6.00	6.43	180.057	7.674	181.302	-1.245				
-6.670	180.853	-0.240	-6.430	180.613	-5.00	180.655	6.00	397+0.000			180.800	180.355	181.125	-0.770	5.00	180.055	-6.00	6.43	180.013	7.483	181.066	-1.053				
-6.850	181.001	-0.420	-6.430	180.581	-5.00	180.624	6.00	397+7.003			180.769	180.324	181.545	-1.221	5.00	180.024	-6.00	6.43	179.981	7.698	181.249	-1.268				
-6.850	180.987	-0.419	-6.430	180.568	-5.00	180.611	6.00	397+10.000			180.756	180.311	181.778	-1.467	5.00	180.011	-6.00	6.43	179.968	7.698	181.236	-1.268				
-6.898	180.991	-0.468	-6.430	180.523	-5.00	180.566	6.00	398+0.000			180.711	180.266	181.586	-1.320	5.00	179.966	-6.00	6.43	179.923	8.590	182.083	-2.160				
-6.898	180.946	-0.468	-6.430	180.478	-5.00	180.521	6.00	398+10.000			180.666	180.221	181.361	-1.140	5.00	179.921	-6.00	6.43	179.878	8.590	182.038	-2.160				
-7.721	181.748	-1.291	-6.430	180.457	-5.00	180.500	6.00	398+14.692	CS		180.645	180.200	181.368	-1.168	5.00	179.900	-6.00	6.43	179.857	8.442	181.869	-2.012				
-7.513	181.501	-1.084	-6.430	180.417	-5.00	180.460	5.68	399+0.000			180.621	180.176	181.401	-1.225	5.00	179.892	-5.68	6.43	179.849	8.361	181.780	-1.931				
-7.513	181.456	-1.083	-6.430	180.373	-5.00	180.416	5.68	399+10.000			180.576	180.131	181.529	-1.398	5.00	179.847	-5.68	6.43	179.805	8.361	181.735	-1.930				
-7.439	181.277	-1.009	-6.430	180.268	-5.00	180.311	4.48	400+0.000			180.532	180.087	181.389	-1.302	5.00	179.863	-4.48	6.43	179.820	7.923	181.312	-1.492				
-7.439	181.232	-1.009	-6.430	180.223	-5.00	180.266	4.48	400+10.000			180.487	180.042	181.162	-1.120	5.00	179.818	-4.48	6.43	179.775	7.923	181.267	-1.492				
-7.526	181.214	-1.096	-6.430	180.118	-5.00	180.161	3.28	401+0.000			180.442	179.997	181.065	-1.068	5.00	179.833	-3.28	6.43	179.790	7.627	180.987	-1.197				
-7.526	181.170	-1.097	-6.430	180.073	-5.00	180.116	3.28	401+10.000			180.397	179.952	181.014	-1.062	5.00	179.788	-3.28	6.43	179.745	7.627	180.942	-1.197				
-7.461	181.000	-1.031	-6.430	179.969	-5.00	180.012	2.08	402+0.000			180.353	179.908	180.924	-1.016	5.00	179.758	-3.00	6.43	179.715	7.726	181.010	-1.295				
-7.461	180.955	-1.031	-6.430	179.924	-5.00	179.967	2.08	402+10.000			180.308	179.863	180.918	-1.055	5.00	179.713	-3.00	6.43	179.670	7.726	180.966	-1.296				
-7.468	180.857	-1.038	-6.430	179.819	-5.00	179.862	0.88	403+0.000			180.263	179.818	180.937	-1.119	5.00	179.668	-3.00	6.43	179.625	7.760	180.955	-1.330				
-7.468	180.812	-1.038	-6.430	179.774	-5.00	179.817	0.88	403+10.000			180.218	179.773	180.792	-1.019	5.00	179.623	-3.00	6.43	179.580	7.760	180.911	-1.331				
-7.503	180.782	-1.073	-6.430	179.709	-5.00	179.752	0.00	403+14.692	ST		180.197	179.752	180.732	-0.980	5.00	179.602	-3.00	6.43	179.559	7.620	180.749	-1.190				
-7.481	180.720	-1.050	-6.430	179.670	-5.00	179.712	-0.32	404+0.000			180.173	179.728	180.670	-0.942	5.00	179.578	-3.00	6.43	179.535	7.569	180.675	-1.140				
-7.467	180.557	-1.037	-6.430	179.520	-5.00	179.563	-1.52	405+0.000			180.084	179.639	180.526	-0.887	5.00	179.489	-3.00	6.43	179.446	7.417	180.433	-0.987				
-6.923	179.863	-0.493	-6.430	179.370	-5.00	179.413	-2.72	406+0.000			179.994	179.														



Nota de Serviço de Terraplenagem																								
Lado Esquerdo									Eixo									Lado Direito						
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Altura (m)	
-6.867	179.704	-0.437	-6.430	179.267	-5.00	179.310	-3.00	407+0.000			179.905	179.460	180.043	-0.583	5.00	179.310	-3.00	6.43	179.267	7.320	180.156	-0.889		
-7.271	180.019	-0.842	-6.430	179.177	-5.00	179.220	-3.00	408+0.000			179.815	179.370	179.970	-0.600	5.00	179.220	-3.00	6.43	179.177	7.205	179.952	-0.775		
-7.259	179.917	-0.830	-6.430	179.087	-5.00	179.130	-3.00	409+0.000			179.725	179.280	179.780	-0.500	5.00	179.130	-3.00	6.43	179.087	7.114	179.772	-0.685		
-7.202	179.770	-0.772	-6.430	178.998	-5.00	179.041	-3.00	410+0.000			179.636	179.191	179.788	-0.597	5.00	179.041	-3.00	6.43	178.998	7.190	179.758	-0.760		
-7.139	179.618	-0.710	-6.430	178.908	-5.00	178.951	-3.00	411+0.000			179.546	179.101	179.667	-0.566	5.00	178.951	-3.00	6.43	178.908	7.143	179.621	-0.713		
-7.200	179.589	-0.770	-6.430	178.819	-5.00	178.862	-3.00	412+0.000			179.457	179.012	179.562	-0.550	5.00	178.862	-3.00	6.43	178.819	7.165	179.554	-0.735		
-7.166	179.466	-0.737	-6.430	178.729	-5.00	178.772	-3.00	413+0.000			179.367	178.922	179.440	-0.518	5.00	178.772	-3.00	6.43	178.729	7.123	179.422	-0.693		
-7.009	179.218	-0.578	-6.430	178.640	-5.00	178.682	-3.00	414+0.000			179.277	178.832	179.221	-0.389	5.00	178.682	-3.00	6.43	178.640	7.024	179.234	-0.594		
-6.771	178.991	-0.341	-6.430	178.550	-5.00	178.593	-3.00	415+0.000			179.188	178.743	179.060	-0.317	5.00	178.593	-3.00	6.43	178.550	6.950	179.070	-0.520		
-6.803	178.834	-0.374	-6.430	178.460	-5.00	178.503	-3.00	416+0.000		PCV	179.098	178.653	178.884	-0.231	5.00	178.503	-3.00	6.43	178.460	6.888	178.919	-0.459		
-6.763	178.705	-0.333	-6.430	178.372	-5.00	178.415	-3.00	417+0.000			179.010	178.565	178.723	-0.158	5.00	178.415	-3.00	6.43	178.372	6.788	178.730	-0.358		
-6.817	178.681	-0.387	-6.430	178.294	-5.00	178.337	-3.00	418+0.000			178.932	178.487	178.698	-0.211	5.00	178.337	-3.00	6.43	178.294	6.836	178.700	-0.406		
-6.877	178.673	-0.447	-6.430	178.226	-5.00	178.269	-3.00	419+0.000			178.864	178.419	178.691	-0.272	5.00	178.269	-3.00	6.43	178.226	6.946	178.743	-0.517		
-6.837	178.577	-0.407	-6.430	178.170	-5.00	178.213	-3.00	420+0.000			178.808	178.363	178.598	-0.235	5.00	178.213	-3.00	6.43	178.170	6.918	178.658	-0.488		
-6.843	178.538	-0.414	-6.430	178.124	-5.00	178.167	-3.00	421+0.000			178.762	178.317	178.548	-0.231	5.00	178.167	-3.00	6.43	178.124	6.898	178.592	-0.468		
-7.190	178.849	-0.760	-6.430	178.089	-5.00	178.132	-3.00	422+0.000			178.727	178.282	178.868	-0.586	5.00	178.132	-3.00	6.43	178.089	7.080	178.739	-0.650		
-7.002	178.638	-0.572	-6.430	178.066	-5.00	178.108	-3.00	423+0.000			178.703	178.258	178.644	-0.386	5.00	178.108	-3.00	6.43	178.066	7.003	178.638	-0.572		
-7.007	178.629	-0.576	-6.430	178.053	-5.00	178.095	-3.00	424+0.000			178.690	178.245	178.599	-0.354	5.00	178.095	-3.00	6.43	178.053	7.075	178.697	-0.644		
-7.117	178.738	-0.687	-6.430	178.051	-5.00	178.093	-3.00	425+0.000		PTV	178.688	178.243	178.681	-0.438	5.00	178.093	-3.00	6.43	178.051	7.003	178.624	-0.573		
-7.097	178.724	-0.668	-6.430	178.056	-5.00	178.099	-3.00	426+0.000			178.694	178.249	178.658	-0.409	5.00	178.099	-3.00	6.43	178.056	7.016	178.643	-0.587		
-7.174	178.807	-0.744	-6.430	178.063	-5.00	178.106	-3.00	427+0.000			178.701	178.256	178.749	-0.493	5.00	178.106	-3.00	6.43	178.063	7.077	178.710	-0.647		
-7.046	178.685	-0.616	-6.430	178.069	-5.00	178.112	-3.00	428+0.000			178.707	178.262	178.664	-0.402	5.00	178.112	-3.00	6.43	178.069	7.107	178.746	-0.677		
-7.075	178.721	-0.645	-6.430	178.076	-5.00	178.118	-3.00	429+0.000			178.713	178.268	178.705	-0.437	5.00	178.118	-3.00	6.43	178.076	7.058	178.703	-0.627		
-7.220	178.872	-0.790	-6.430	178.082	-5.00	178.125	-3.00	430+0.000			178.720	178.275	178.798	-0.523	5.00	178.125	-3.00	6.43	178.082	7.132	178.784	-0.702		
-7.079	178.737	-0.649	-6.430	178.088	-5.00	178.131	-3.00	431+0.000			178.726	178.281	178.769	-0.488	5.00	178.131	-3.00	6.43	178.088	7.118	178.776	-0.688		
-7.046	178.711	-0.616	-6.430	178.095	-5.00	178.137	-3.00	432+0.000			178.732	178.287	178.710	-0.423	5.00	178.137	-3.00	6.43	178.095	7.070	178.735	-0.640		
-7.121	178.792	-0.691	-6.430	178.101	-5.00	178.144	-3.00	433+0.000			178.739	178.294	178.807	-0.513	5.00	178.144	-3.00	6.43	178.101	7.151	178.821	-0.720		
-7.141	178.818	-0.711	-6.430	178.107	-5.00	178.150	-3.00	434+0.000			178.745	178.300	178.950	-0.650	5.00	178.150	-3.00	6.43	178.107	7.282	178.960	-0.853		
-7.270	178.954	-0.840	-6.430	178.114	-5.00	178.156	-3.00	435+0.000			178.751	178.306	178.980	-0.674	5.00	178.156	-3.00	6.43	178.114	7.224	178.908	-0.794		
-7.165	178.855	-0.735	-6.430	178.120	-5.00	178.163	-3.00	436+0.000			178.758	178.313	178.865	-0.552	5.00	178.163	-3.00	6.43	178.120	7.212	178.902	-0.782		
-7.112	178.808	-0.682	-6.430	178.126	-5.00	178.169	-3.00	437+0.000			178.764	178.319	178.816	-0.497	5.00	178.169	-3.00	6.43	178.126	7.130	178.827	-0.701		
-7.066	178.768	-0.635	-6.430	178.133	-5.00	178.176	-3.00	438+0.000			178.771	178.326	178.778	-0.452	5.00	178.176	-3.00	6.43	178.133	7.094	178.796	-0.663		
-7.057	178.766	-0.627	-6.430	178.139	-5.00	178.182	-3.00	439+0.000			178.777	178.332	178.652	-0.320	5.00	178.182	-3.00	6.43	178.139	7.038	178.747	-0.608		
-6.828	178.543	-0.398	-6.430	178.145	-5.00	178.188	-3.00	440+0.000			178.783	178.338	178.551	-0.213	5.00	178.188	-3.00	6.43	178.145	6.793	178.508	-0.363		
-6.784	178.505	-0.353	-6.430	178.152	-5.00	178.195	-3.00	441+0.000			178.790	178.345	178.520	-0.175	5.00	178.195	-3.00	6.43	178.152	6.801	178.523	-0.371		
-6.764	178.492	-0.334	-6.430	178.158	-5.00	178.201	-3.00	442+0.000			178.796	178.351	178.490	-0.139	5.00	178.201	-3.00	6.43	178.158	6.771	178.499	-0.341		
-6.743	178.478	-0.314	-6.430	178.164	-5.00	178.207	-3.00	443+0.000			178.802	178.357	178.442	-0.085	5.00	178.207	-3.00	6.43	178.164	6.702	178.436	-0.272		
-6.618	178.359	-0.188	-6.430	178.171	-5.00	178.214	-3.00	444+0.000			178.809	178.364	178.371	-0.007	5.00	178.214	-3.00	6.43	178.171	6.698	178.438	-0.267		
-6.575	178.322	-0.145	-6.430	178.177	-5.00	178.220	-3.00	445+0.000			178.815	178.370	178.321	0.049	5.00	178.220	-3.00	6.43	178.177	6.617	178.364	-0.187		
-6.528	178.320	-0.099	-6.430	178.221	-5.00	178.264	-2.24	446+0.000			178.821	178.376	178.298	0.088	5.00	178.226	-3.00	6.43	178.183	6.503	178.257	-0.074		
-6.534	178.387	-0.104	-6.430	178.283	-5.00	178.326	-1.14	447+0.000			178.828	178.383	178.336	0.047	5.00	178.233	-3.00	6.43	178.190	6.452	178.212	-0.022		
-6.517	178.286	0.058	-6.430	178.344	-5.00	178.387	-0.04	448+0.000			178.834	178.389	178.290	0.109	5.00	178.239	-3.00	6.43	178.196	6.456	178.222	-0.026		
-6.531	178.279	0.067	-6.430	178.346	-5.00	178.389	0.00	448+0.724	TS		178.834	178.389	178.274	0.115	5.00	178.239	-3.00	6.43	178.196	6.456	178.223	-0.027		
-6.531	178.282	0.067	-6.430	178.349	-5.00	178.392	0.00	448+10.000			178.837	178.392	178.185	0.207	5.00	178.242	-3.00	6.43	178.199	6.456	178.226	-0.027		
-6.873	178.110	0.295	-6.430	178.405	-5.00	178.448	1.06	449+0.000			178.840	178.395	178.086	0.309	5.00	178.245	-3.00	6.43	178.202	6.464	178.236	-0.034		
-6.873	178.113	0.296	-6.430	178.409	-5.00	178.451	1.06	449+10.000			178.843	178.398	178.107	0.291	5.00	178.248	-3.00	6.43	178.206	6.464	178.239	-0.033		
-6.960	178.113	0.354	-6.430	178.467	-5.00	178.510	2.16	450+0.000			178.847	178.402	178.128	0.274	5.00	178.252	-3.00	6.43	178.209	6.439	178.203	0.006		
-6.960	178.117	0.353	-6.430	178.470	-5.00	178.513	2.16	450+10.000			178.850	178.405	178.152	0.253	5.00	178.255	-3.00	6.43	178.212	6.439	178.206	0.006		
-7.301	177.947	0.581	-6.430	178.528	-5.00	178.571	3.26	451+0.000			178.853	178.408	178.188	0.220	5.00	178.245	-3.26	6.43						



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo					Lado Direito										
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Altura (m)		
-7.301	177.951	0.580	-6.430	178.531	-5.00	178.574	3.26	451+10.000			178.856	178.411	178.197	0.214	5.00	178.248	-3.26	6.43	178.205	6.519	178.146	0.059		
-8.475	177.226	1.363	-6.430	178.589	-5.00	178.632	4.36	452+0.000			178.859	178.414	177.615	0.799	5.00	178.196	-4.36	6.43	178.153	6.860	177.866	0.287		
-8.475	177.229	1.364	-6.430	178.593	-5.00	178.636	4.36	452+10.000			178.863	178.418	176.970	1.448	5.00	178.199	-4.36	6.43	178.157	6.860	177.870	0.287		
-9.054	176.901	1.750	-6.430	178.651	-5.00	178.694	5.46	453+0.000			178.866	178.421	176.833	1.588	5.00	178.148	-5.46	6.43	178.105	7.737	177.234	0.871		
-9.069	176.893	1.760	-6.430	178.653	-5.00	178.696	5.50	453+0.724	SC		178.866	178.421	176.836	1.585	5.00	178.146	-5.50	6.43	178.103	7.753	177.221	0.882		
-9.069	176.896	1.760	-6.430	178.656	-5.00	178.699	5.50	453+10.000			178.869	178.424	176.855	1.569	5.00	178.149	-5.50	6.43	178.106	7.753	177.224	0.882		
-8.626	177.195	1.464	-6.430	178.659	-5.00	178.702	5.50	454+0.000			178.872	178.427	176.793	1.634	5.00	178.152	-5.50	6.43	178.109	9.198	176.264	1.845		
-8.626	177.198	1.464	-6.430	178.662	-5.00	178.705	5.50	454+10.000			178.875	178.430	176.747	1.683	5.00	178.155	-5.50	6.43	178.112	9.198	176.267	1.845		
-8.153	177.515	1.149	-6.430	178.664	-5.00	178.707	5.50	454+14.596			178.877	178.432	176.822	1.610	5.00	178.157	-5.50	6.43	178.114	9.262	176.226	1.888		
-8.111	177.545	1.120	-6.430	178.665	-5.00	178.708	5.50	455+0.000			178.878	178.433	176.850	1.583	5.00	178.158	-5.50	6.43	178.115	8.939	176.443	1.672		
-8.111	177.548	1.121	-6.430	178.669	-5.00	178.712	5.50	455+10.000			178.882	178.437	176.881	1.556	5.00	178.162	-5.50	6.43	178.119	8.939	176.446	1.673		
-8.536	177.267	1.405	-6.430	178.672	-5.00	178.715	5.50	456+0.000			178.885	178.440	177.039	1.401	5.00	178.165	-5.50	6.43	178.122	8.419	176.796	1.326		
-8.957	176.990	1.684	-6.430	178.674	-5.00	178.717	5.50	456+8.468	CS		178.887	178.442	177.013	1.429	5.00	178.167	-5.50	6.43	178.124	8.470	176.765	1.359		
-8.957	176.990	1.685	-6.430	178.675	-5.00	178.718	5.50	456+10.000			178.888	178.443	176.999	1.444	5.00	178.168	-5.50	6.43	178.125	8.470	176.765	1.359		
-9.259	176.761	1.885	-6.430	178.646	-5.00	178.689	4.87	457+0.000			178.891	178.446	177.179	1.267	5.00	178.203	-4.87	6.43	178.160	8.586	176.723	1.437		
-9.259	176.764	1.886	-6.430	178.650	-5.00	178.693	4.87	457+10.000			178.894	178.449	177.316	1.133	5.00	178.206	-4.87	6.43	178.163	8.586	176.726	1.437		
-9.464	176.575	2.023	-6.430	178.598	-5.00	178.641	3.77	458+0.000			178.897	178.452	177.272	1.180	5.00	178.264	-3.77	6.43	178.221	8.593	176.779	1.442		
-9.464	176.579	2.022	-6.430	178.601	-5.00	178.644	3.77	458+10.000			178.901	178.456	177.183	1.273	5.00	178.267	-3.77	6.43	178.224	8.593	176.782	1.442		
-9.052	176.801	1.748	-6.430	178.549	-5.00	178.592	2.67	459+0.000			178.904	178.459	177.156	1.303	5.00	178.309	-3.00	6.43	178.266	8.667	176.775	1.491		
-9.052	176.805	1.747	-6.430	178.552	-5.00	178.595	2.67	459+10.000			178.907	178.462	177.170	1.292	5.00	178.312	-3.00	6.43	178.269	8.667	176.778	1.491		
-9.020	176.774	1.726	-6.430	178.500	-5.00	178.543	1.57	460+0.000			178.910	178.465	177.177	1.288	5.00	178.315	-3.00	6.43	178.272	8.789	176.700	1.572		
-9.020	176.777	1.727	-6.430	178.504	-5.00	178.547	1.57	460+10.000			178.913	178.468	177.184	1.284	5.00	178.318	-3.00	6.43	178.275	8.789	176.703	1.572		
-9.122	176.657	1.795	-6.430	178.452	-5.00	178.495	0.47	461+0.000			178.916	178.471	177.194	1.277	5.00	178.321	-3.00	6.43	178.279	9.156	176.641	1.818		
-9.039	176.692	1.739	-6.430	178.431	-5.00	178.474	0.00	461+8.468	ST		178.919	178.474	177.209	1.265	5.00	178.324	-3.00	6.43	178.281	8.959	176.595	1.686		
-9.020	176.677	1.726	-6.430	178.403	-5.00	178.446	-0.63	462+0.000			178.923	178.478	177.212	1.266	5.00	178.328	-3.00	6.43	178.285	9.063	176.530	1.755		
-8.789	176.782	1.573	-6.430	178.355	-5.00	178.397	-1.73	463+0.000			178.929	178.484	177.280	1.204	5.00	178.334	-3.00	6.43	178.291	8.978	176.593	1.698		
-8.637	176.835	1.471	-6.430	178.306	-5.00	178.349	-2.83	464+0.000			178.935	178.490	177.412	1.078	5.00	178.340	-3.00	6.43	178.298	8.051	177.217	1.081		
-8.211	177.116	1.188	-6.430	178.304	-5.00	178.347	-3.00	465+0.000			178.942	178.497	177.599	0.898	5.00	178.347	-3.00	6.43	178.304	7.883	177.335	0.969		
-7.953	177.295	1.015	-6.430	178.310	-5.00	178.353	-3.00	466+0.000			178.948	178.503	177.659	0.844	5.00	178.353	-3.00	6.43	178.310	7.821	177.383	0.927		
-8.075	177.220	1.097	-6.430	178.317	-5.00	178.359	-3.00	467+0.000			178.954	178.509	177.600	0.909	5.00	178.359	-3.00	6.43	178.317	8.019	177.258	1.059		
-7.608	177.537	0.786	-6.430	178.323	-5.00	178.366	-3.00	468+0.000			178.961	178.516	177.640	0.876	5.00	178.366	-3.00	6.43	178.323	7.604	177.540	0.783		
-7.693	177.487	0.842	-6.430	178.329	-5.00	178.372	-3.00	469+0.000			178.967	178.522	177.708	0.814	5.00	178.372	-3.00	6.43	178.329	7.199	177.816	0.513		
-7.602	177.554	0.782	-6.430	178.336	-5.00	178.379	-3.00	470+0.000			178.974	178.529	177.728	0.801	5.00	178.379	-3.00	6.43	178.336	7.033	177.933	0.403		
-7.433	177.673	0.669	-6.430	178.342	-5.00	178.385	-3.00	471+0.000			178.980	178.535	177.733	0.802	5.00	178.385	-3.00	6.43	178.342	7.285	177.772	0.570		
-7.427	177.684	0.664	-6.430	178.348	-5.00	178.391	-3.00	472+0.000			178.986	178.541	177.731	0.810	5.00	178.391	-3.00	6.43	178.348	7.366	177.724	0.624		
-7.279	177.789	0.566	-6.430	178.355	-5.00	178.398	-3.00	473+0.000			178.993	178.548	177.753	0.795	5.00	178.398	-3.00	6.43	178.355	7.239	177.815	0.540		
-7.131	177.894	0.467	-6.430	178.361	-5.00	178.404	-3.00	474+0.000			178.999	178.554	177.886	0.668	5.00	178.404	-3.00	6.43	178.361	6.974	177.998	0.363		
-6.697	178.189	0.178	-6.430	178.367	-5.00	178.410	-3.00	475+0.000			179.005	178.560	178.121	0.439	5.00	178.410	-3.00	6.43	178.367	6.580	178.267	0.100		
-6.514	178.317	0.057	-6.430	178.374	-5.00	178.417	-3.00	476+0.000			179.012	178.567	178.309	0.258	5.00	178.417	-3.00	6.43	178.374	6.538	178.482	-0.108		
-6.866	178.816	-0.436	-6.430	178.380	-5.00	178.423	-3.00	477+0.000	PCV		179.018	178.573	178.841	-0.268	5.00	178.423	-3.00	6.43	178.380	7.020	178.970	-0.590		
-7.502	179.451	-1.072	-6.430	178.379	-5.00	178.422	-3.00	478+0.000			179.017	178.572	179.628	-1.056	5.00	178.422	-3.00	6.43	178.379	7.909	179.858	-1.479		
-7.451	179.390	-1.021	-6.430	178.369	-5.00	178.412	-3.00	479+0.000			179.007	178.562	179.562	-1.000	5.00	178.412	-3.00	6.43	178.369	7.903	179.842	-1.473		
-7.375	179.294	-0.944	-6.430	178.350	-5.00	178.393	-3.00	480+0.000			178.988	178.543	179.426	-0.883	5.00	178.393	-3.00	6.43	178.350	7.822	179.742	-1.392		
-7.407	179.298	-0.977	-6.430	178.321	-5.00	178.364	-3.00	481+0.000			178.959	178.514	179.308	-0.794	5.00	178.364	-3.00	6.43	178.321	7.732	179.623	-1.302		
-7.317	179.171	-0.887	-6.430	178.284	-5.00	178.327	-3.00	482+0.000			178.922	178.477	179.142	-0.665	5.00	178.327	-3.00	6.43	178.284	7.450	179.304	-1.020		
-6.905	178.712	-0.475	-6.430	178.237	-5.00	178.280	-3.00	483+0.000			178.875	178.430	178.874	-0.444	5.00	178.280	-3.00	6.43	178.237	7.260	179.067	-0.830		
-6.866	178.617	-0.436	-6.430	178.181	-5.00	178.224	-3.00	484+0.000			178.819	178.374	178.646	-0.272	5.00	178.224	-3.00	6.43	178.181	7.336	179.087	-0.906		
-6.784	178.470	-0.354	-6.430	178.116	-5.00	178.159	-3.00	485+0.000			178.754	178.309	178.518	-0.209	5.00	178.159	-3.00	6.43	178.116	7.289	178.975	-0.859		
-6.794	178.406	-0.364	-6.430	178.042	-5.00	178.085	-3.00	486+0.000			178.680	178.235	178.630	-0.395	5.00	178.08								



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo									Lado Direito				
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral		Offset	
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)
-6.850	178.379	-0.420	-6.430	177.959	-5.00	178.002	-3.00	487+0.000			178.597	178.152	178.589	-0.437	5.00	177.002	-3.00	6.43	177.959	7.110	178.639	-0.680
-6.893	178.330	-0.463	-6.430	177.867	-5.00	177.909	-3.00	488+0.000			178.504	178.059	178.454	-0.395	5.00	177.909	-3.00	6.43	177.867	7.219	178.656	-0.789
-6.945	178.280	-0.515	-6.430	177.765	-5.00	177.808	-3.00	489+0.000			178.403	177.958	178.331	-0.373	5.00	177.808	-3.00	6.43	177.765	7.496	178.833	-1.068
-7.344	178.569	-0.915	-6.430	177.654	-5.00	177.697	-3.00	490+0.000			178.292	177.847	178.250	-0.403	5.00	177.697	-3.00	6.43	177.654	7.617	178.841	-1.187
-7.332	178.437	-0.903	-6.430	177.534	-5.00	177.577	-3.00	491+0.000			178.172	177.727	178.215	-0.488	5.00	177.577	-3.00	6.43	177.534	7.571	178.675	-1.141
-7.392	178.367	-0.962	-6.430	177.405	-5.00	177.448	-3.00	492+0.000			178.043	177.598	178.168	-0.570	5.00	177.448	-3.00	6.43	177.405	7.477	178.452	-1.047
-7.084	177.921	-0.654	-6.430	177.267	-5.00	177.310	-3.00	493+0.000		PTV	177.905	177.460	178.078	-0.618	5.00	177.310	-3.00	6.43	177.267	7.464	178.301	-1.034
-6.900	177.592	-0.471	-6.430	177.121	-5.00	177.164	-3.00	494+0.000			177.759	177.314	177.952	-0.638	5.00	177.164	-3.00	6.43	177.121	7.578	178.269	-1.148
-7.139	177.684	-0.709	-6.430	176.975	-5.00	177.018	-3.00	495+0.000			177.613	177.168	177.882	-0.714	5.00	177.018	-3.00	6.43	176.975	7.744	178.289	-1.314
-7.275	177.674	-0.846	-6.430	176.828	-5.00	176.871	-3.00	496+0.000			177.466	177.021	177.789	-0.768	5.00	176.871	-3.00	6.43	176.828	7.740	178.138	-1.310
-7.377	177.629	-0.947	-6.430	176.682	-5.00	176.725	-3.00	497+0.000			177.320	176.875	177.627	-0.752	5.00	176.725	-3.00	6.43	176.682	7.822	178.074	-1.392
-7.330	177.436	-0.901	-6.430	176.535	-5.00	176.578	-3.00	498+0.000			177.173	176.728	177.403	-0.675	5.00	176.578	-3.00	6.43	176.535	7.617	177.722	-1.187
-7.294	177.254	-0.865	-6.430	176.389	-5.00	176.432	-3.00	499+0.000			177.027	176.582	177.262	-0.680	5.00	176.432	-3.00	6.43	176.389	7.730	177.689	-1.300
-7.318	177.130	-0.887	-6.430	176.243	-5.00	176.286	-3.00	500+0.000			176.881	176.436	177.252	-0.816	5.00	176.286	-3.00	6.43	176.243	7.822	177.635	-1.392
-7.314	176.980	-0.884	-6.430	176.096	-5.00	176.139	-3.00	501+0.000			176.734	176.289	177.171	-0.882	5.00	176.139	-3.00	6.43	176.096	7.892	177.559	-1.463
-7.167	176.687	-0.737	-6.430	175.950	-5.00	175.993	-3.00	502+0.000			176.588	176.143	177.020	-0.877	5.00	176.051	-1.83	6.43	176.008	8.109	177.687	-1.679
-7.360	176.733	-0.930	-6.430	175.803	-5.00	175.846	-3.00	503+0.000			176.441	175.996	177.027	-1.031	5.00	175.964	-0.65	6.43	175.921	8.255	177.746	-1.825
-7.460	176.752	-1.029	-6.430	175.723	-5.00	175.765	-3.00	503+11.038	TS		176.360	175.915	177.112	-1.197	5.00	175.915	0.00	6.43	175.873	8.379	177.822	-1.949
-7.453	176.680	-1.023	-6.430	175.657	-5.00	175.700	-3.00	504+0.000			176.295	175.850	177.132	-1.282	5.00	175.876	0.53	6.43	175.833	8.464	177.867	-2.034
-7.453	176.607	-1.023	-6.430	175.584	-5.00	175.627	-3.00	504+10.000			176.222	175.777	177.139	-1.362	5.00	175.803	0.53	6.43	175.760	8.464	177.794	-2.034
-7.426	176.506	-0.996	-6.430	175.510	-5.00	175.553	-3.00	505+0.000			176.148	175.703	176.921	-1.218	5.00	175.789	1.71	6.43	175.746	8.321	177.637	-1.891
-7.426	176.433	-0.996	-6.430	175.437	-5.00	175.480	-3.00	505+10.000			176.075	175.630	176.613	-0.983	5.00	175.716	1.71	6.43	175.673	8.321	177.564	-1.891
-6.735	175.670	-0.306	-6.430	175.364	-5.00	175.407	-3.00	506+0.000			176.002	175.557	176.065	-0.508	5.00	175.701	2.89	6.43	175.658	7.061	176.289	-0.631
-6.735	175.596	-0.305	-6.430	175.291	-5.00	175.334	-3.00	506+10.000			175.929	175.484	175.423	0.061	5.00	175.628	2.89	6.43	175.585	7.061	176.216	-0.631
-7.995	174.121	1.043	-6.430	175.164	-5.00	175.207	-4.07	507+0.000			175.855	175.410	174.798	0.612	5.00	175.614	4.07	6.43	175.571	7.262	175.017	0.554
-7.995	174.048	1.043	-6.430	175.091	-5.00	175.134	-4.07	507+10.000			175.782	175.337	174.171	1.166	5.00	175.541	4.07	6.43	175.498	7.262	174.943	0.555
-9.500	172.912	2.047	-6.430	174.959	-5.00	175.002	-5.25	508+0.000			175.709	175.264	173.688	1.576	5.00	175.526	5.25	6.43	175.484	8.305	174.234	1.250
-9.500	172.839	2.046	-6.430	174.885	-5.00	174.928	-5.25	508+10.000			175.636	175.191	173.207	1.984	5.00	175.453	5.25	6.43	175.410	8.305	174.161	1.249
-9.446	172.835	2.010	-6.430	174.845	-5.00	174.888	-5.90	508+11.038	SC		175.628	175.183	173.153	2.030	5.00	175.478	5.90	6.43	175.435	9.030	173.702	1.733
-9.526	172.716	2.064	-6.430	174.780	-5.00	174.823	-5.90	509+0.000			175.563	175.118	173.011	2.107	5.00	175.413	5.90	6.43	175.370	9.355	173.420	1.950
-9.526	172.642	2.065	-6.430	174.707	-5.00	174.749	-5.90	509+10.000			175.489	175.044	172.880	2.164	5.00	175.339	5.90	6.43	175.297	9.355	173.347	1.950
-9.709	172.447	2.186	-6.430	174.633	-5.00	174.676	-5.90	510+0.000			175.416	174.971	172.960	2.011	5.00	175.266	5.90	6.43	175.223	9.770	172.997	2.226
-9.709	172.374	2.186	-6.430	174.560	-5.00	174.603	-5.90	510+10.000			175.343	174.898	173.075	1.823	5.00	175.193	5.90	6.43	175.150	9.770	172.923	2.227
-9.878	172.188	2.299	-6.430	174.487	-5.00	174.530	-5.90	511+0.000			175.270	174.825	173.004	1.821	5.00	175.120	5.90	6.43	175.077	10.082	172.642	2.435
-9.882	172.182	2.302	-6.430	174.484	-5.00	174.527	-5.90	511+0.420			175.267	174.822	172.998	1.824	5.00	175.117	5.90	6.43	175.074	10.082	172.639	2.435
-9.882	172.112	2.302	-6.430	174.414	-5.00	174.457	-5.90	511+10.000			175.197	174.752	172.864	1.888	5.00	175.047	5.90	6.43	175.004	10.082	172.569	2.435
-10.124	171.878	2.462	-6.430	174.340	-5.00	174.383	-5.90	512+0.000			175.123	174.678	172.715	1.963	5.00	174.973	5.90	6.43	174.930	10.296	172.353	2.577
-10.124	171.805	2.462	-6.430	174.267	-5.00	174.310	-5.90	512+10.000			175.050	174.605	172.563	2.042	5.00	174.900	5.90	6.43	174.857	10.296	172.280	2.577
-10.500	171.480	2.714	-6.430	174.194	-5.00	174.237	-5.90	513+0.000			174.977	174.532	172.517	2.015	5.00	174.827	5.90	6.43	174.784	10.854	171.834	2.950
-10.890	171.149	2.973	-6.430	174.122	-5.00	174.165	-5.90	513+9.802	CS		174.905	174.460	172.515	1.945	5.00	174.755	5.90	6.43	174.712	11.078	171.613	3.099
-10.890	171.148	2.973	-6.430	174.121	-5.00	174.164	-5.90	513+10.000			174.904	174.459	172.515	1.944	5.00	174.754	5.90	6.43	174.711	11.078	171.612	3.099
-10.934	171.075	3.003	-6.430	174.078	-5.00	174.121	-5.30	514+0.000			174.830	174.385	172.561	1.824	5.00	174.650	5.30	6.43	174.607	11.040	171.534	3.073
-10.934	171.002	3.002	-6.430	174.004	-5.00	174.047	-5.30	514+10.000			174.757	174.312	172.629	1.683	5.00	174.577	5.30	6.43	174.534	11.040	171.461	3.073
-9.684	171.821	2.169	-6.430	173.990	-5.00	174.033	-4.12	515+0.000			174.684	174.239	172.781	1.458	5.00	174.445	4.12	6.43	174.402	10.615	171.612	2.790
-9.684	171.747	2.170	-6.430	173.917	-5.00	173.960	-4.12	515+10.000			174.611	174.166	172.966	1.200	5.00	174.372	4.12	6.43	174.329	10.615	171.639	2.790
-8.075	172.803	1.097	-6.430	173.900	-5.00	173.943	-3.00	516+0.000			174.538	174.093	173.214	0.879	5.00	174.239	2.94	6.43	174.197	10.191	171.690	2.507
-8.075	172.730	1.096	-6.430	173.826	-5.00	173.869	-3.00	516+10.000			174.464	174.019	173.496	0.523	5.00	174.166	2.94	6.43	174.123	10.191	171.616	2.507
-8.709	172.234	1.519	-6.430	173.753	-5.00	173.796	-3.00	517+0.000			174.391	173.946	173.585	0.361	5.00	174.034	1.76	6.43	173.991	9.484	171.955	2.036
-8.709	172.161	1.519	-6.430	173.680	-5.00	173.723	-3.00	517+10.000			174.318	173.873	173.									



Nota de Serviço de Terraplenagem																											
Lado Esquerdo									Eixo									Lado Direito									
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset					
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)
-8.744	172.064	1.543	-6.430	173.607	-5.00	173.650	-3.00	518+0.000			174.245	173.401	0.399	5.00	173.829	0.58	6.43	173.786	8.661	172.298	1.488						
-8.561	172.115	1.420	-6.430	173.535	-5.00	173.578	-3.00	518+9.802	ST		174.173	173.728	0.598	5.00	173.728	0.00	6.43	173.685	9.195	171.842	1.843						
-8.726	171.930	1.530	-6.430	173.460	-5.00	173.503	-3.00	519+0.000			174.098	173.653	0.847	5.00	173.623	-0.60	6.43	173.580	9.406	171.596	1.984						
-9.214	171.458	1.856	-6.430	173.314	-5.00	173.357	-3.00	520+0.000			173.952	173.507	1.189	5.00	173.418	-1.78	6.43	173.375	9.305	171.458	1.917						
-8.988	171.462	1.706	-6.430	173.168	-5.00	173.210	-3.00	521+0.000			173.805	173.360	1.110	5.00	173.212	-2.96	6.43	173.169	9.062	171.415	1.754						
-7.507	172.303	0.718	-6.430	173.021	-5.00	173.064	-3.00	522+0.000			173.659	173.214	0.991	5.00	173.064	-3.00	6.43	173.021	9.103	171.239	1.782						
-8.558	171.456	1.419	-6.430	172.875	-5.00	172.918	-3.00	523+0.000			173.513	173.068	0.889	5.00	172.918	-3.00	6.43	172.875	8.807	171.290	1.585						
-8.298	171.483	1.245	-6.430	172.728	-5.00	172.771	-3.00	524+0.000			173.366	172.921	0.802	5.00	172.771	-3.00	6.43	172.728	8.764	171.172	1.556						
-8.381	171.281	1.301	-6.430	172.582	-5.00	172.625	-3.00	525+0.000			173.220	172.775	0.704	5.00	172.625	-3.00	6.43	172.582	8.635	171.112	1.470						
-8.074	171.339	1.096	-6.430	172.435	-5.00	172.478	-3.00	526+0.000			173.073	172.628	0.592	5.00	172.478	-3.00	6.43	172.435	8.557	171.017	1.418						
-7.822	171.361	0.928	-6.430	172.289	-5.00	172.332	-3.00	527+0.000		PCV	172.927	172.482	0.435	5.00	172.332	-3.00	6.43	172.289	8.115	171.166	1.123						
-7.785	171.260	0.903	-6.430	172.163	-5.00	172.206	-3.00	528+0.000			172.801	172.356	0.186	5.00	172.206	-3.00	6.43	172.163	7.772	171.268	0.895						
-6.493	172.142	-0.062	-6.430	172.080	-5.00	172.123	-3.00	529+0.000			172.718	172.273	0.033	5.00	172.123	-3.00	6.43	172.080	7.653	171.264	0.816						
-6.505	172.114	-0.074	-6.430	172.040	-5.00	172.082	-3.00	530+0.000			172.677	172.232	-0.040	5.00	172.095	-2.74	6.43	172.052	6.961	171.698	0.354						
-6.514	172.127	-0.085	-6.430	172.042	-5.00	172.085	-3.00	531+0.000			172.680	172.235	-0.218	5.00	172.173	-1.24	6.43	172.130	6.554	172.255	-0.125						
-6.650	172.298	-0.220	-6.430	172.078	-5.00	172.120	-3.00	531+16.600	TS		172.715	172.270	-0.520	5.00	172.270	0.00	6.43	172.228	6.745	172.543	-0.315						
-6.731	172.389	-0.301	-6.430	172.088	-5.00	172.131	-3.00	532+0.000			172.726	172.281	-0.626	5.00	172.294	0.26	6.43	172.251	6.829	172.650	-0.399						
-6.731	172.428	-0.301	-6.430	172.127	-5.00	172.170	-3.00	532+10.000			172.765	172.320	-0.931	5.00	172.333	0.26	6.43	172.290	6.829	172.689	-0.399						
-7.536	173.283	-1.106	-6.430	172.220	-5.00	172.260	-3.00	533+0.000			172.815	172.370	-1.473	5.00	172.458	1.76	6.43	172.415	7.881	173.866	-1.451						
-7.536	173.344	-1.106	-6.430	172.238	-5.00	172.281	-3.00	533+10.000			172.876	172.431	-1.740	5.00	172.519	1.76	6.43	172.476	7.881	173.927	-1.451						
-8.984	174.851	-2.554	-6.430	172.297	-5.00	172.339	-3.26	534+0.000		PTV	172.947	172.502	-2.745	5.00	172.665	3.26	6.43	172.622	9.441	175.633	-3.011						
-8.984	174.933	-2.554	-6.430	172.379	-5.00	172.422	-3.26	534+10.000			173.029	172.584	-3.379	5.00	172.747	3.26	6.43	172.704	9.441	175.716	-3.012						
-10.191	176.152	-3.761	-6.430	172.391	-5.00	172.434	-4.76	535+0.000			173.117	172.672	-3.617	5.00	172.909	4.76	6.43	172.867	10.600	177.036	-4.169						
-10.191	176.239	-3.761	-6.430	172.478	-5.00	172.521	-4.76	535+10.000			173.204	172.759	-3.623	5.00	172.997	4.76	6.43	172.954	10.600	177.123	-4.169						
-10.742	176.785	-4.311	-6.430	172.474	-5.00	172.517	-6.00	535+16.600	SC		173.262	172.817	-3.724	5.00	173.117	6.00	6.43	173.074	10.534	177.178	-4.104						
-10.625	176.699	-4.195	-6.430	172.504	-5.00	172.546	-6.00	536+0.000			173.291	172.846	-3.833	5.00	173.146	6.00	6.43	173.104	10.536	177.210	-4.106						
-10.625	176.786	-4.195	-6.430	172.591	-5.00	172.634	-6.00	536+10.000			173.379	172.934	-4.163	5.00	173.234	6.00	6.43	173.191	10.536	177.297	-4.106						
-10.097	176.313	-3.667	-6.430	172.646	-5.00	172.689	-6.00	536+16.281			173.434	172.989	-4.152	5.00	173.289	6.00	6.43	173.246	10.190	177.006	-3.760						
-10.077	176.326	-3.648	-6.430	172.678	-5.00	172.721	-6.00	537+0.000			173.466	173.021	-4.026	5.00	173.321	6.00	6.43	173.278	10.164	177.012	-3.734						
-10.077	176.413	-3.647	-6.430	172.766	-5.00	172.809	-6.00	537+10.000			173.554	173.109	-3.655	5.00	173.409	6.00	6.43	173.366	10.164	177.099	-3.733						
-9.960	176.348	-3.530	-6.430	172.818	-5.00	172.861	-6.00	537+15.961	CS		173.606	173.161	-3.456	5.00	173.461	6.00	6.43	173.418	9.885	176.873	-3.455						
-9.909	176.347	-3.479	-6.430	172.868	-5.00	172.911	-5.70	538+0.000			173.641	173.196	-3.370	5.00	173.481	5.70	6.43	173.438	9.797	176.805	-3.367						
-9.909	176.435	-3.479	-6.430	172.956	-5.00	172.998	-5.70	538+10.000			173.728	173.283	-3.255	5.00	173.568	5.70	6.43	173.525	9.797	176.892	-3.367						
-9.384	176.072	-2.954	-6.430	173.118	-5.00	173.161	-4.20	539+0.000			173.816	173.371	-2.980	5.00	173.581	4.20	6.43	173.538	9.170	176.278	-2.740						
-9.384	176.160	-2.955	-6.430	173.205	-5.00	173.248	-4.20	539+10.000			173.903	173.458	-2.695	5.00	173.668	4.20	6.43	173.625	9.170	176.365	-2.740						
-8.690	175.612	-2.259	-6.430	173.353	-5.00	173.395	-3.00	540+0.000			173.990	173.545	-2.456	5.00	173.680	2.70	6.43	173.637	8.727	175.934	-2.297						
-8.690	175.700	-2.260	-6.430	173.440	-5.00	173.483	-3.00	540+10.000			174.078	173.633	-2.172	5.00	173.768	2.70	6.43	173.725	8.727	176.022	-2.297						
-8.550	175.648	-2.121	-6.430	173.527	-5.00	173.570	-3.00	541+0.000			174.165	173.720	-1.863	5.00	173.780	1.20	6.43	173.737	8.880	176.187	-2.450						
-8.550	175.735	-2.120	-6.430	173.615	-5.00	173.658	-3.00	541+10.000			174.253	173.808	-1.606	5.00	173.867	1.20	6.43	173.825	8.880	176.275	-2.450						
-8.499	175.736	-2.069	-6.430	173.667	-5.00	173.710	-3.00	541+15.961	ST		174.305	173.860	-1.364	5.00	173.860	0.00	6.43	173.817	8.562	175.949	-2.132						
-8.482	175.754	-2.052	-6.430	173.702	-5.00	173.745	-3.00	542+0.000			174.340	173.895	-1.164	5.00	173.880	-0.30	6.43	173.837	8.618	176.025	-2.188						
-8.415	175.862	-1.985	-6.430	173.877	-5.00	173.920	-3.00	543+0.000			174.515	174.070	-0.207	5.00	173.980	-1.80	6.43	173.937	8.788	176.294	-2.357						
-8.386	176.007	-1.955	-6.430	174.052	-5.00	174.094	-3.00	544+0.000			174.689	174.244	-1.932	5.00	174.094	-3.00	6.43	174.052	8.759	176.381	-2.329						
-8.384	176.180	-1.954	-6.430	174.226	-5.00	174.269	-3.00	545+0.000			174.864	174.419	-1.879	5.00	174.269	-3.00	6.43	174.226	8.777	176.573	-2.347						
-8.410	176.381	-1.980	-6.430	174.401	-5.00	174.444	-3.00	546+0.000			175.039	174.594	-1.762	5.00	174.444	-3.00	6.43	174.401	8.778	176.750	-2.349						
-8.236	176.381	-1.805	-6.430	174.576	-5.00	174.619	-3.00	547+0.000			175.214	174.769	-1.516	5.00	174.619	-3.00	6.43	174.576	8.438	176.584	-2.008						
-8.078																											



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo						Lado Direito							
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	
-7.451	176.295	-1.020	-6.430	175.275	-5.00	175.318	-3.00	551+0.000			175.913	175.468	176.212	-0.744	5.00	175.318	-3.00	6.43	175.275	7.994	176.839	-1.564
-7.086	176.140	-0.656	-6.430	175.484	-5.00	175.526	-2.32	552+0.000			176.087	175.642	176.218	-0.576	5.00	175.492	-3.00	6.43	175.450	7.566	176.585	-1.135
-7.165	176.435	-0.735	-6.430	175.700	-5.00	175.743	-1.49	553+0.000			176.262	175.817	176.362	-0.545	5.00	175.667	-3.00	6.43	175.624	7.796	176.990	-1.366
-7.346	176.832	-0.916	-6.430	175.916	-5.00	175.959	-0.65	554+0.000			176.437	175.992	176.722	-0.730	5.00	175.842	-3.00	6.43	175.799	8.009	177.378	-1.579
-7.246	176.902	-0.816	-6.430	176.086	-5.00	176.129	0.00	554+15.666	TS		176.574	176.129	176.935	-0.806	5.00	175.979	-3.00	6.43	175.936	8.038	177.544	-1.608
-7.244	176.947	-0.814	-6.430	176.133	-5.00	176.176	0.18	555+0.000			176.612	176.167	176.953	-0.786	5.00	176.017	-3.00	6.43	175.974	7.983	177.526	-1.552
-7.244	177.034	-0.814	-6.430	176.220	-5.00	176.263	0.18	555+10.000			176.699	176.254	176.993	-0.739	5.00	176.104	-3.00	6.43	176.061	7.983	177.614	-1.553
-7.267	177.186	-0.837	-6.430	176.349	-5.00	176.392	1.01	556+0.000			176.786	176.341	177.053	-0.712	5.00	176.191	-3.00	6.43	176.149	7.769	177.487	-1.338
-7.267	177.274	-0.837	-6.430	176.437	-5.00	176.479	1.01	556+10.000		PCV	176.874	176.429	177.121	-0.692	5.00	176.279	-3.00	6.43	176.236	7.769	177.575	-1.339
-7.254	177.389	-0.823	-6.430	176.566	-5.00	176.608	1.85	557+0.000			176.961	176.516	177.214	-0.698	5.00	176.366	-3.00	6.43	176.323	7.646	177.539	-1.216
-7.254	177.474	-0.823	-6.430	176.651	-5.00	176.694	1.85	557+10.000			177.046	176.601	177.317	-0.716	5.00	176.451	-3.00	6.43	176.409	7.646	177.624	-1.215
-7.090	177.435	-0.659	-6.430	176.776	-5.00	176.818	2.68	558+0.000			177.129	176.684	177.344	-0.660	5.00	176.534	-3.00	6.43	176.491	7.508	177.570	-1.079
-7.090	177.516	-0.660	-6.430	176.856	-5.00	176.899	2.68	558+10.000			177.210	176.765	177.340	-0.575	5.00	176.615	-3.00	6.43	176.572	7.508	177.650	-1.078
-6.943	177.488	-0.512	-6.430	176.976	-5.00	177.019	3.51	559+0.000			177.288	176.843	177.342	-0.499	5.00	176.667	-3.51	6.43	176.624	7.391	177.586	-0.962
-6.943	177.564	-0.513	-6.430	177.051	-5.00	177.094	3.51	559+10.000			177.363	176.918	177.339	-0.421	5.00	176.743	-3.51	6.43	176.700	7.391	177.661	-0.961
-6.686	177.422	-0.256	-6.430	177.166	-5.00	177.209	4.35	560+0.000			177.437	176.992	177.324	-0.332	5.00	176.774	-4.35	6.43	176.731	7.202	177.503	-0.772
-6.686	177.493	-0.256	-6.430	177.237	-5.00	177.280	4.35	560+10.000			177.507	177.062	177.395	-0.333	5.00	176.845	-4.35	6.43	176.802	7.202	177.574	-0.772
-6.778	177.666	-0.348	-6.430	177.308	-5.00	177.351	5.00	560+15.666	SC		177.546	177.101	177.373	-0.272	5.00	176.851	-5.00	6.43	176.808	7.127	177.505	-0.697
-6.759	177.666	-0.328	-6.430	177.338	-5.00	177.380	5.00	561+0.000			177.575	177.130	177.363	-0.233	5.00	176.880	-5.00	6.43	176.838	7.127	177.567	-0.729
-6.759	177.732	-0.329	-6.430	177.403	-5.00	177.446	5.00	561+10.000			177.641	177.196	177.361	-0.165	5.00	176.946	-5.00	6.43	176.903	7.159	177.633	-0.730
-6.571	177.608	-0.141	-6.430	177.467	-5.00	177.510	5.00	562+0.000			177.705	177.260	177.443	-0.183	5.00	177.010	-5.00	6.43	176.967	7.322	177.859	-0.892
-6.571	177.669	-0.142	-6.430	177.527	-5.00	177.570	5.00	562+10.000			177.765	177.320	177.526	-0.206	5.00	177.070	-5.00	6.43	177.027	7.322	177.920	-0.893
-6.569	177.493	0.093	-6.430	177.586	-5.00	177.629	5.00	563+0.000			177.824	177.379	177.680	-0.301	5.00	177.129	-5.00	6.43	177.086	7.063	177.719	-0.633
-6.557	177.555	0.085	-6.430	177.640	-5.00	177.683	5.00	563+9.742			177.878	177.433	177.859	-0.426	5.00	177.183	-5.00	6.43	177.140	7.184	177.895	-0.755
-6.557	177.557	0.085	-6.430	177.642	-5.00	177.685	5.00	563+10.000			177.880	177.435	177.863	-0.428	5.00	177.185	-5.00	6.43	177.142	7.184	177.896	-0.754
-6.441	177.688	0.007	-6.430	177.695	-5.00	177.738	5.00	564+0.000			177.933	177.488	177.914	-0.426	5.00	177.238	-5.00	6.43	177.195	7.168	177.933	-0.738
-6.441	177.739	0.007	-6.430	177.746	-5.00	177.789	5.00	564+10.000			177.984	177.539	177.911	-0.372	5.00	177.289	-5.00	6.43	177.246	7.168	177.984	-0.738
-6.605	177.678	0.117	-6.430	177.795	-5.00	177.838	5.00	565+0.000			178.033	177.588	177.943	-0.355	5.00	177.338	-5.00	6.43	177.295	7.177	178.042	-0.747
-6.605	177.724	0.117	-6.430	177.841	-5.00	177.884	5.00	565+10.000			178.079	177.634	177.997	-0.363	5.00	177.384	-5.00	6.43	177.341	7.177	178.088	-0.747
-6.677	177.720	0.165	-6.430	177.885	-5.00	177.928	5.00	566+0.000			178.123	177.678	177.877	-0.199	5.00	177.428	-5.00	6.43	177.385	7.084	178.038	-0.653
-6.741	177.694	0.207	-6.430	177.901	-5.00	177.944	5.00	566+3.817	CS		178.139	177.694	177.847	-0.153	5.00	177.444	-5.00	6.43	177.401	7.061	178.032	-0.631
-6.741	177.719	0.207	-6.430	177.926	-5.00	177.969	5.00	566+10.000			178.164	177.719	177.862	-0.143	5.00	177.469	-5.00	6.43	177.426	7.061	178.057	-0.631
-6.674	177.768	0.163	-6.430	177.931	-5.00	177.974	4.33	567+0.000			178.203	177.758	177.768	-0.010	5.00	177.541	-4.33	6.43	177.498	6.930	177.999	-0.501
-6.674	177.804	0.163	-6.430	177.967	-5.00	178.010	4.33	567+10.000			178.239	177.794	177.742	0.052	5.00	177.578	-4.33	6.43	177.535	6.930	178.035	-0.500
-6.491	177.919	0.040	-6.430	177.959	-5.00	178.002	3.49	568+0.000			178.273	177.828	177.831	-0.003	5.00	177.653	-3.49	6.43	177.610	6.860	178.040	-0.430
-6.491	177.950	0.041	-6.430	177.991	-5.00	178.034	3.49	568+10.000			178.304	177.859	177.923	-0.064	5.00	177.685	-3.49	6.43	177.642	6.860	178.071	-0.429
-6.495	178.043	-0.065	-6.430	177.978	-5.00	178.021	2.66	569+0.000			178.333	177.888	177.986	-0.098	5.00	177.738	-3.00	6.43	177.695	6.834	178.099	-0.404
-6.495	178.070	-0.065	-6.430	178.005	-5.00	178.048	2.66	569+10.000			178.360	177.915	178.045	-0.130	5.00	177.765	-3.00	6.43	177.722	6.834	178.126	-0.404
-6.477	177.956	0.031	-6.430	177.987	-5.00	178.030	1.83	570+0.000			178.384	177.939	178.066	-0.127	5.00	177.789	-3.00	6.43	177.746	6.746	178.062	-0.316
-6.477	177.977	0.032	-6.430	178.009	-5.00	178.051	1.83	570+10.000			178.405	177.960	178.074	-0.114	5.00	177.810	-3.00	6.43	177.767	6.746	178.083	-0.316
-6.467	177.961	0.025	-6.430	177.986	-5.00	178.029	0.99	571+0.000			178.424	177.979	178.057	-0.078	5.00	177.829	-3.00	6.43	177.786	6.584	177.941	-0.155
-6.467	177.978	0.025	-6.430	178.003	-5.00	178.046	0.99	571+10.000			178.441	177.996	178.030	-0.034	5.00	177.846	-3.00	6.43	177.803	6.584	177.957	-0.154
-6.532	177.907	0.068	-6.430	177.975	-5.00	178.018	0.16	572+0.000			178.455	178.010	178.023	-0.013	5.00	177.860	-3.00	6.43	177.817	6.442	177.809	0.068
-6.504	177.923	0.049	-6.430	177.972	-5.00	178.015	0.00	572+3.817	ST		178.460	178.015	178.023	-0.008	5.00	177.865	-3.00	6.43	177.822	6.449	177.841	-0.019
-6.464	177.932	0.023	-6.430	177.955	-5.00	177.998	-0.67	573+0.000			178.476	178.031	178.007	0.024	5.00	177.881	-3.00	6.43	177.838	6.463	177.871	-0.033
-6.464	177.958	-0.034	-6.430	177.924	-5.00	177.967	-1.51	574+0.000			178.488	178.043	177.985	0.058	5.00	177.893	-3.00	6.43	177.850	6.509	177.769	0.081
-6.531	177.987	-0.101	-6.430	177.886	-5.00	177.929	-2.34	575+0.000		PTV	178.491	178.046	178.025	0.021	5.00	177.896	-3.00	6.43	177.853	6.550	177.801	0.052
-6.613	178.039	-0.183	-6.430	177.856	-5.00	177.899	-3.00	576+0.000			178.494	178.049	178.068	-0.019	5.00	177.899	-3.00	6.43	177.856	6.494	177.920	-0.064
-6.571	178.000	-0.141	-6.430	177.859	-5.00	177.902	-3.00	577+0.000			178.497	178.052	178.057	-0.005								



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo						Lado Direito									
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Altura (m)				
-6.617	178,049	-0,187	-6,430	177,862	-5,00	177,905	-3,00	578+0,000			178,500	178,055	178,026	0,029	5,00	177,905	-3,00	6,43	177,862	6,488	177,920	-0,058		
-6.478	177,912	-0,047	-6,430	177,865	-5,00	177,908	-3,00	579+0,000			178,503	178,058	177,957	0,101	5,00	177,908	-3,00	6,43	177,865	6,577	178,012	-0,147		
-6.705	177,685	0,183	-6,430	177,868	-5,00	177,911	-3,00	580+0,000			178,506	178,061	178,032	0,029	5,00	177,911	-3,00	6,43	177,868	6,640	177,728	0,140		
-6.838	177,598	0,273	-6,430	177,871	-5,00	177,914	-3,00	581+0,000			178,509	178,064	178,263	-0,199	5,00	177,914	-3,00	6,43	177,871	6,961	177,517	0,354		
-6.651	177,726	0,148	-6,430	177,874	-5,00	177,917	-3,00	582+0,000			178,512	178,067	178,128	-0,061	5,00	177,917	-3,00	6,43	177,874	6,951	177,526	0,348		
-6.504	177,827	0,050	-6,430	177,877	-5,00	177,919	-3,00	583+0,000			178,514	178,069	178,044	0,025	5,00	177,919	-3,00	6,43	177,877	6,770	177,650	0,227		
-6.816	177,622	0,258	-6,430	177,880	-5,00	177,922	-3,00	584+0,000			178,517	178,072	178,053	0,019	5,00	177,922	-3,00	6,43	177,880	6,887	177,575	0,305		
-6.931	177,549	0,333	-6,430	177,882	-5,00	177,925	-3,00	585+0,000			178,520	178,075	178,059	0,016	5,00	177,925	-3,00	6,43	177,882	7,108	177,431	0,451		
-6.881	177,584	0,301	-6,430	177,885	-5,00	177,928	-3,00	586+0,000			178,523	178,078	178,176	-0,098	5,00	177,928	-3,00	6,43	177,885	6,986	177,514	0,371		
-6.578	177,790	0,098	-6,430	177,888	-5,00	177,931	-3,00	587+0,000			178,526	178,081	178,233	-0,152	5,00	177,931	-3,00	6,43	177,888	6,985	177,518	0,370		
-6.599	178,060	-0,169	-6,430	177,891	-5,00	177,934	-3,00	588+0,000			178,529	178,084	178,249	-0,165	5,00	177,934	-3,00	6,43	177,891	6,486	177,854	0,037		
-6.656	178,121	-0,227	-6,430	177,894	-5,00	177,937	-3,00	589+0,000			178,532	178,087	178,239	-0,152	5,00	177,937	-3,00	6,43	177,894	6,663	178,128	-0,234		
-6.895	178,362	-0,465	-6,430	177,897	-5,00	177,940	-3,00	590+0,000			178,535	178,090	178,214	-0,124	5,00	177,940	-3,00	6,43	177,897	6,000	0,000	177,897		
-7.051	178,521	-0,621	-6,430	177,900	-5,00	177,943	-3,00	591+0,000			178,538	178,093	178,274	-0,181	5,00	177,943	-3,00	6,43	177,900	6,533	177,831	0,069		
-7.259	178,732	-0,829	-6,430	177,903	-5,00	177,946	-3,00	592+0,000			178,541	178,096	178,467	-0,371	5,00	177,946	-3,00	6,43	177,903	6,692	178,165	-0,262		
-7.387	178,863	-0,957	-6,430	177,906	-5,00	177,949	-3,00	593+0,000			178,544	178,099	178,660	-0,561	5,00	177,949	-3,00	6,43	177,906	7,365	178,841	-0,935		
-7.431	178,909	-1,000	-6,430	177,909	-5,00	177,952	-3,00	594+0,000			178,547	178,102	178,807	-0,705	5,00	177,952	-3,00	6,43	177,909	7,509	178,988	-1,079		
-7.639	179,121	-1,209	-6,430	177,912	-5,00	177,955	-3,00	595+0,000			178,550	178,105	178,940	-0,835	5,00	177,955	-3,00	6,43	177,912	7,620	179,101	-1,189		
-7.714	179,199	-1,284	-6,430	177,915	-5,00	177,958	-3,00	596+0,000			178,553	178,108	179,053	-0,945	5,00	177,958	-3,00	6,43	177,915	7,722	179,206	-1,291		
-7.665	179,153	-1,235	-6,430	177,918	-5,00	177,961	-3,00	597+0,000			178,556	178,111	179,142	-1,031	5,00	177,961	-3,00	6,43	177,918	7,755	179,243	-1,325		
-7.638	179,129	-1,208	-6,430	177,921	-5,00	177,963	-3,00	598+0,000			178,558	178,113	179,187	-1,074	5,00	177,963	-3,00	6,43	177,921	7,726	179,217	-1,296		
-7.815	179,308	-1,384	-6,430	177,924	-5,00	177,966	-3,00	599+0,000			178,561	178,116	179,195	-1,079	5,00	177,966	-3,00	6,43	177,924	7,767	179,260	-1,336		
-7.779	179,276	-1,350	-6,430	177,926	-5,00	177,969	-3,00	600+0,000			178,564	178,119	179,199	-1,080	5,00	177,969	-3,00	6,43	177,926	7,772	179,269	-1,343		
-7.847	179,346	-1,417	-6,430	177,929	-5,00	177,972	-3,00	601+0,000			178,567	178,122	179,198	-1,076	5,00	177,972	-3,00	6,43	177,929	7,697	179,197	-1,268		
-7.867	179,369	-1,437	-6,430	177,932	-5,00	177,975	-3,00	602+0,000			178,570	178,125	179,186	-1,061	5,00	177,975	-3,00	6,43	177,932	7,723	179,226	-1,294		
-7.866	179,371	-1,436	-6,430	177,935	-5,00	177,978	-3,00	603+0,000			178,573	178,128	179,028	-0,900	5,00	177,978	-3,00	6,43	177,935	7,545	179,050	-1,115		
-7.445	178,960	-1,015	-6,430	177,945	-5,00	177,988	-2,86	604+0,000			178,576	178,131	178,722	-0,591	5,00	177,981	-3,00	6,43	177,938	7,226	178,735	-0,797		
-6.980	178,541	-0,550	-6,430	177,991	-5,00	178,034	-1,99	605+0,000			178,579	178,134	178,508	-0,374	5,00	177,984	-3,00	6,43	177,941	6,997	178,508	-0,567		
-6.919	178,526	-0,488	-6,430	178,038	-5,00	178,081	-1,13	606+0,000			178,582	178,137	178,410	-0,273	5,00	177,987	-3,00	6,43	177,944	6,899	178,413	-0,469		
-6.815	178,469	-0,385	-6,430	178,084	-5,00	178,127	-0,26	607+0,000			178,585	178,140	178,330	-0,190	5,00	177,990	-3,00	6,43	177,947	6,815	178,332	-0,385		
-6.811	178,479	-0,381	-6,430	178,098	-5,00	178,141	0,00	607+0,022	TS		178,586	178,141	178,319	-0,178	5,00	177,991	-3,00	6,43	177,948	6,813	178,331	-0,383		
-6.811	178,479	-0,381	-6,430	178,098	-5,00	178,141	0,00	607+10,000			178,586	178,141	178,311	-0,170	5,00	177,991	-3,00	6,43	177,948	6,813	178,331	-0,383		
-6.753	178,453	-0,323	-6,430	178,130	-5,00	178,173	0,61	608+0,000			178,588	178,143	178,291	-0,148	5,00	177,993	-3,00	6,43	177,950	6,810	178,330	-0,380		
-6.753	178,454	-0,322	-6,430	178,132	-5,00	178,175	0,61	608+10,000			178,589	178,144	178,271	-0,127	5,00	177,994	-3,00	6,43	177,951	6,810	178,331	-0,380		
-6.720	178,467	-0,291	-6,430	178,176	-5,00	178,219	1,47	609+0,000			178,591	178,146	178,264	-0,118	5,00	177,996	-3,00	6,43	177,953	6,710	178,233	-0,280		
-6.720	178,468	-0,290	-6,430	178,178	-5,00	178,221	1,47	609+10,000			178,592	178,147	178,264	-0,117	5,00	177,997	-3,00	6,43	177,954	6,710	178,234	-0,280		
-6.483	178,276	-0,053	-6,430	178,223	-5,00	178,266	2,34	610+0,000			178,594	178,149	178,357	-0,208	5,00	177,999	-3,00	6,43	177,956	6,554	178,080	-0,124		
-6.483	178,278	-0,054	-6,430	178,224	-5,00	178,267	2,34	610+10,000			178,595	178,150	178,488	-0,338	5,00	178,000	-3,00	6,43	177,957	6,554	178,082	-0,125		
-6.845	178,684	-0,415	-6,430	178,269	-5,00	178,312	3,21	611+0,000			178,597	178,152	178,505	-0,353	5,00	177,991	-3,21	6,43	177,948	6,665	177,791	0,157		
-6.845	178,685	-0,415	-6,430	178,270	-5,00	178,313	3,21	611+10,000			178,598	178,153	178,473	-0,320	5,00	177,993	-3,21	6,43	177,950	6,665	177,793	0,157		
-6.894	178,779	-0,464	-6,430	178,315	-5,00	178,358	4,07	612+0,000			178,600	178,155	178,261	-0,106	5,00	177,991	-4,07	6,43	177,908	6,734	177,705	0,203		
-6.894	178,780	-0,463	-6,430	178,317	-5,00	178,360	4,07	612+10,000			178,601	178,156	177,970	0,186	5,00	177,992	-4,07	6,43	177,909	6,734	177,707	0,202		
-6.854	178,079	0,283	-6,430	178,362	-5,00	178,404	4,94	613+0,000			178,602	178,157	177,969	0,188	5,00	177,911	-4,94	6,43	177,868	6,619	178,056	-0,188		
-6.788	178,137	0,238	-6,430	178,375	-5,00	178,418	5,20	613+0,022	SC		178,603	178,158	178,095	0,063	5,00	177,898	-5,20	6,43	177,855	6,670	178,096	-0,241		
-6.788	178,138	0,238	-6,430	178,376	-5,00	178,419	5,20	613+10,000			178,604	178,159	178,205	-0,046	5,00	177,899	-5,20	6,43	177,856	6,670	178,096	-0,240		
-6.671	178,217	0,161	-6,430	178,378	-5,00	178,420	5,20	614+0,000			178,605	178,160	178,223	-0,063	5,00	177,900	-5,20	6,43	177,858	6,661	178,088	-0,231		
-6.671	178,218	0,161	-6,430	178,379	-5,00	178,422	5,20	614+10,000			178,607	178,162	178,200	-0,038	5,00	177,902	-5,20	6,43	177,859	6,661	178,090	-0,230		
-6.619	178,253	0,126	-6,430	178,379	-5,00	178,422	5,20	614+11,438			178,607	178,162	178,205	-0,043	5,00	177,902	-5,20	6,43	177,859	6,519	177,948	-0,089		
-6.669	178,221	0,159	-6,430	178,380	-5,00	178,423	5,20	615+0,000			178,608	178,163	178,082	0,081	5,00	177,903	-5,20	6,43	177,					



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo						Lado Direito									
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)
-6.669	178.223	0.159	-6.430	178.382	-5.00	178.425	5.20	615+10.000			178.610	178.165	178.043	0.122	5.00	177.905	-5.20	6.43	177.862	6.461	177.893	-0.031		
-6.662	178.228	0.155	-6.430	178.383	-5.00	178.426	5.20	615+16.854	CS		178.611	178.166	177.985	0.181	5.00	177.906	-5.20	6.43	177.863	6.441	177.874	-0.011		
-6.586	178.272	0.105	-6.430	178.377	-5.00	178.419	5.06	616+0.000			178.611	178.166	177.941	0.225	5.00	177.913	-5.06	6.43	177.870	6.484	177.834	0.036		
-6.586	178.274	0.104	-6.430	178.378	-5.00	178.421	5.06	616+10.000			178.613	178.168	177.909	0.259	5.00	177.915	-5.06	6.43	177.872	6.484	177.835	0.037		
-6.725	178.140	0.196	-6.430	178.336	-5.00	178.379	4.20	617+0.000			178.614	178.169	178.052	0.117	5.00	177.959	-4.20	6.43	177.916	6.788	177.678	0.238		
-6.725	178.141	0.197	-6.430	178.338	-5.00	178.381	4.20	617+10.000			178.616	178.171	178.229	-0.058	5.00	177.961	-4.20	6.43	177.918	6.788	177.679	0.239		
-6.672	178.134	0.162	-6.430	178.296	-5.00	178.339	3.33	618+0.000			178.617	178.172	178.315	-0.143	5.00	178.006	-3.33	6.43	177.963	6.713	177.774	0.189		
-6.672	178.136	0.161	-6.430	178.297	-5.00	178.340	3.33	618+10.000			178.619	178.174	178.368	-0.194	5.00	178.007	-3.33	6.43	177.964	6.713	177.776	0.188		
-6.546	178.178	0.077	-6.430	178.255	-5.00	178.298	2.46	619+0.000			178.620	178.175	178.355	-0.180	5.00	178.025	-3.00	6.43	177.982	6.475	177.952	0.030		
-6.546	178.180	0.077	-6.430	178.257	-5.00	178.300	2.46	619+10.000			178.622	178.177	178.324	-0.147	5.00	178.027	-3.00	6.43	177.984	6.475	177.954	0.030		
-6.456	178.197	0.018	-6.430	178.215	-5.00	178.258	1.60	620+0.000			178.623	178.178	178.264	-0.086	5.00	178.028	-3.00	6.43	177.985	6.596	178.151	-0.166		
-6.456	178.199	0.017	-6.430	178.216	-5.00	178.259	1.60	620+10.000			178.624	178.179	178.194	-0.015	5.00	178.029	-3.00	6.43	177.987	6.596	178.152	-0.165		
-6.495	178.240	-0.065	-6.430	178.175	-5.00	178.217	0.73	621+0.000			178.626	178.181	178.190	-0.009	5.00	178.031	-3.00	6.43	177.988	6.576	178.134	-0.146		
-6.495	178.241	-0.065	-6.430	178.176	-5.00	178.219	0.73	621+10.000			178.627	178.182	178.213	-0.031	5.00	178.032	-3.00	6.43	177.990	6.576	178.136	-0.146		
-6.549	178.260	-0.119	-6.430	178.141	-5.00	178.183	0.00	621+16.854	ST		178.628	178.183	178.227	-0.044	5.00	178.033	-3.00	6.43	177.991	6.474	178.035	-0.044		
-6.528	178.232	-0.098	-6.430	178.134	-5.00	178.177	-0.14	622+0.000			178.629	178.184	178.233	-0.049	5.00	178.034	-3.00	6.43	177.991	6.505	178.066	-0.075		
-6.453	178.116	-0.022	-6.430	178.094	-5.00	178.137	-1.00	623+0.000			178.632	178.187	178.257	-0.070	5.00	178.037	-3.00	6.43	177.994	6.571	178.135	-0.141		
-6.444	178.044	0.009	-6.430	178.053	-5.00	178.096	-1.87	624+0.000			178.635	178.190	178.228	-0.038	5.00	178.040	-3.00	6.43	177.997	6.541	178.107	-0.110		
-6.537	177.933	0.072	-6.430	178.005	-5.00	178.048	-2.90	625+0.000			178.638	178.193	178.149	0.044	5.00	178.043	-3.00	6.43	178.000	6.612	178.181	-0.181		
-6.485	178.104	-0.055	-6.430	178.049	-5.00	178.092	-2.07	626+0.000			178.641	178.196	178.104	0.092	5.00	178.046	-3.00	6.43	178.003	6.603	178.175	-0.172		
-6.439	178.103	-0.009	-6.430	178.094	-5.00	178.137	-1.23	627+0.000			178.644	178.199	178.116	0.083	5.00	178.049	-3.00	6.43	178.006	6.714	178.290	-0.284		
-6.460	178.169	-0.030	-6.430	178.139	-5.00	178.182	-0.40	628+0.000			178.646	178.201	178.137	0.064	5.00	178.051	-3.00	6.43	178.009	6.617	177.884	0.125		
-6.574	178.304	-0.144	-6.430	178.160	-5.00	178.203	0.00	628+9.562	TS		178.648	178.203	178.185	0.018	5.00	178.053	-3.00	6.43	178.010	6.903	177.695	0.315		
-6.574	178.304	-0.144	-6.430	178.160	-5.00	178.203	0.00	628+10.000			178.648	178.203	178.187	0.016	5.00	178.053	-3.00	6.43	178.010	6.903	177.695	0.315		
-6.594	178.348	-0.165	-6.430	178.183	-5.00	178.226	0.43	629+0.000			178.649	178.204	178.186	0.018	5.00	178.054	-3.00	6.43	178.011	7.001	177.631	0.380		
-6.594	178.349	-0.164	-6.430	178.185	-5.00	178.228	0.43	629+10.000			178.651	178.206	178.163	0.043	5.00	178.056	-3.00	6.43	178.013	7.001	177.632	0.381		
-6.532	178.330	-0.102	-6.430	178.228	-5.00	178.271	1.27	630+0.000			178.652	178.207	178.118	0.089	5.00	178.057	-3.00	6.43	178.014	6.926	177.684	0.330		
-6.532	178.331	-0.102	-6.430	178.229	-5.00	178.272	1.27	630+10.000			178.654	178.209	178.065	0.144	5.00	178.059	-3.00	6.43	178.016	6.926	177.685	0.331		
-6.843	177.997	0.275	-6.430	178.274	-5.00	178.317	2.10	631+0.000		PCV	178.655	178.210	178.101	0.109	5.00	178.060	-3.00	6.43	178.017	6.683	177.848	0.169		
-6.843	177.999	0.275	-6.430	178.274	-5.00	178.317	2.10	631+10.000			178.657	178.212	178.172	0.040	5.00	178.062	-3.00	6.43	178.019	6.683	177.850	0.169		
-6.720	178.126	0.193	-6.430	178.319	-5.00	178.362	2.93	632+0.000			178.661	178.216	178.224	-0.008	5.00	178.066	-3.00	6.43	178.023	0.000	0.000	178.023		
-6.720	178.133	0.193	-6.430	178.326	-5.00	178.369	2.93	632+10.000			178.667	178.222	178.268	-0.046	5.00	178.072	-3.00	6.43	178.029	0.000	0.000	178.029		
-6.486	178.340	0.037	-6.430	178.377	-5.00	178.420	3.77	633+0.000			178.677	178.232	178.230	0.002	5.00	178.043	-3.77	6.43	178.000	6.441	178.012	-0.012		
-6.486	178.352	0.038	-6.430	178.390	-5.00	178.432	3.77	633+10.000			178.689	178.244	178.158	0.086	5.00	178.056	-3.77	6.43	178.013	6.441	178.024	-0.011		
-6.571	178.353	0.093	-6.430	178.446	-5.00	178.489	4.60	634+0.000		PTV	178.704	178.259	178.166	0.093	5.00	178.029	-4.60	6.43	177.986	6.617	178.173	-0.187		
-6.685	178.313	0.171	-6.430	178.484	-5.00	178.526	5.00	634+9.562	SC		178.721	178.276	178.204	0.072	5.00	178.026	-5.00	6.43	177.984	6.787	178.341	-0.357		
-6.685	178.314	0.170	-6.430	178.484	-5.00	178.527	5.00	634+10.000			178.722	178.277	178.206	0.071	5.00	178.027	-5.00	6.43	177.984	6.787	178.342	-0.358		
-6.690	178.330	0.173	-6.430	178.503	-5.00	178.546	5.00	635+0.000			178.741	178.296	178.290	0.006	5.00	178.046	-5.00	6.43	178.003	6.582	178.155	-0.152		
-6.437	178.524	-0.007	-6.430	178.517	-5.00	178.560	5.00	635+7.470			178.755	178.310	178.363	-0.053	5.00	178.060	-5.00	6.43	178.017	6.545	177.940	0.077		
-6.437	178.529	-0.007	-6.430	178.522	-5.00	178.565	5.00	635+10.000			178.760	178.315	178.367	-0.072	5.00	178.065	-5.00	6.43	178.022	6.545	177.945	0.077		
-6.467	178.578	-0.038	-6.430	178.540	-5.00	178.583	5.00	636+0.000			178.778	178.333	178.380	-0.047	5.00	178.083	-5.00	6.43	178.040	6.511	178.122	-0.082		
-6.499	178.504	0.046	-6.430	178.550	-5.00	178.593	5.00	636+5.378	CS		178.788	178.343	178.355	-0.012	5.00	178.093	-5.00	6.43	178.050	6.709	178.330	-0.280		
-6.499	178.513	0.046	-6.430	178.559	-5.00	178.602	5.00	636+10.000			178.797	178.352	178.334	0.018	5.00	178.102	-5.00	6.43	178.059	6.709	178.338	-0.279		
-6.736	178.343	0.204	-6.430	178.547	-5.00	178.590	4.39	637+0.000			178.816	178.371	178.187	0.184	5.00	178.151	-4.39	6.43	178.108	6.599	178.277	-0.169		
-6.736	178.362	0.204	-6.430	178.566	-5.00	178.609	4.39	637+10.000			178.834	178.389	178.000	0.389	5.00	178.170	-4.39	6.43	178.127	6.599	178.296	-0.169		
-6.887	178.238	0.305	-6.430	178.543	-5.00	178.586	3.56	638+0.000			178.853	178.408	178.049	0.359	5.00	178.230	-3.56	6.43	178.187	6.660	178.034	0.153		
-6.887	178.257	0.305	-6.430	178.562	-5.00	178.605	3.56	638+10.000			178.872	178.427	178.206	0.221	5.00	178.249	-3.56	6.43	178.206	6.660	178.052	0.154		
-6.887	178.234	0.305	-6.430	178.539	-5.00	178.582	2.72	639+0.000			178.890	178.445	178.130	0.315	5.00	178.295	-3.00	6.43	178.252	6.556	178.378	-0.126		
-6.887	178.253	0.304	-6.430	178.557	-5.00	178.600	2																	



Nota de Serviço de Terraplenagem

Lado Esquerdo									Eixo						Lado Direito									
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Altura (m)	
-6.868	178.242	0.292	-6.430	178.534	-5.00	178.577	1.89	640+0.000			178.928	178.483	178.013	0.470	5.00	178.333	-3.00	6.43	178.290	6.519	178.379	-0.089		
-6.868	178.261	0.292	-6.430	178.553	-5.00	178.596	1.89	640+10.000			178.946	178.501	178.144	0.357	5.00	178.351	-3.00	6.43	178.308	6.519	178.398	-0.090		
-6.481	178.496	0.034	-6.430	178.530	-5.00	178.573	1.06	641+0.000			178.965	178.520	178.223	0.297	5.00	178.370	-3.00	6.43	178.327	6.580	178.227	0.100		
-6.481	178.514	0.035	-6.430	178.549	-5.00	178.592	1.06	641+10.000			178.984	178.539	178.283	0.256	5.00	178.389	-3.00	6.43	178.346	6.580	178.246	0.100		
-6.466	178.502	0.024	-6.430	178.526	-5.00	178.569	0.22	642+0.000			179.002	178.557	178.289	0.268	5.00	178.411	-2.93	6.43	178.368	6.463	178.346	0.022		
-6.486	178.487	0.038	-6.430	178.525	-5.00	178.567	0.00	642+5.378	ST		179.012	178.567	178.280	0.287	5.00	178.429	-2.77	6.43	178.386	6.570	178.293	0.093		
-6.491	178.582	-0.061	-6.430	178.521	-5.00	178.564	-0.61	643+0.000			179.040	178.595	178.217	0.378	5.00	178.478	-2.33	6.43	178.435	6.484	178.399	0.036		
-6.499	178.471	0.046	-6.430	178.517	-5.00	178.560	-1.44	644+0.000			179.077	178.632	178.206	0.426	5.00	178.545	-1.73	6.43	178.502	6.499	178.572	-0.070		
-6.616	178.389	0.124	-6.430	178.513	-5.00	178.556	-2.28	645+0.000			179.114	178.669	178.436	0.233	5.00	178.613	-1.13	6.43	178.570	6.467	178.607	-0.037		
-6.760	178.844	-0.330	-6.430	178.514	-5.00	178.557	-3.00	646+0.000			179.152	178.707	178.684	0.023	5.00	178.680	-0.53	6.43	178.637	6.515	178.722	-0.085		
-6.571	178.688	-0.141	-6.430	178.547	-5.00	178.590	-3.00	646+17.787	TS		179.185	178.740	178.906	-0.166	5.00	178.740	0.00	6.43	178.697	6.868	179.135	-0.438		
-6.588	178.709	-0.158	-6.430	178.551	-5.00	178.594	-3.00	647+0.000			179.189	178.744	178.931	-0.187	5.00	178.747	0.07	6.43	178.705	6.902	179.177	-0.472		
-6.588	178.728	-0.158	-6.430	178.570	-5.00	178.613	-3.00	647+10.000			179.208	178.763	179.046	-0.283	5.00	178.766	0.07	6.43	178.723	6.902	179.195	-0.472		
-6.770	178.929	-0.340	-6.430	178.589	-5.00	178.631	-3.00	648+0.000			179.226	178.781	179.123	-0.342	5.00	178.815	0.67	6.43	178.772	7.157	179.499	-0.727		
-6.770	178.947	-0.340	-6.430	178.607	-5.00	178.650	-3.00	648+10.000			179.245	178.800	179.187	-0.387	5.00	178.833	0.67	6.43	178.791	7.157	179.517	-0.726		
-6.941	179.136	-0.510	-6.430	178.626	-5.00	178.669	-3.00	649+0.000			179.264	178.819	179.167	-0.348	5.00	178.882	1.27	6.43	178.839	7.253	179.662	-0.823		
-6.941	179.155	-0.510	-6.430	178.645	-5.00	178.687	-3.00	649+10.000			179.282	178.837	179.098	-0.261	5.00	178.901	1.27	6.43	178.858	7.253	179.681	-0.823		
-7.046	179.280	-0.617	-6.430	178.663	-5.00	178.706	-3.00	650+0.000			179.301	178.856	179.295	-0.439	5.00	178.949	1.87	6.43	178.907	7.245	179.721	-0.814		
-7.046	179.298	-0.616	-6.430	178.682	-5.00	178.725	-3.00	650+10.000			179.320	178.875	179.585	-0.710	5.00	178.968	1.87	6.43	178.925	7.245	179.740	-0.815		
-7.188	179.459	-0.758	-6.430	178.701	-5.00	178.744	-3.00	651+0.000			179.339	178.894	179.743	-0.849	5.00	179.017	2.47	6.43	178.974	7.366	179.910	-0.936		
-7.188	179.478	-0.759	-6.430	178.719	-5.00	178.762	-3.00	651+10.000			179.357	178.912	179.852	-0.940	5.00	179.036	2.47	6.43	178.993	7.366	179.929	-0.936		
-7.332	179.637	-0.902	-6.430	178.735	-5.00	178.778	-3.07	652+0.000			179.376	178.931	179.913	-0.982	5.00	179.084	3.07	6.43	179.041	7.303	179.915	-0.874		
-7.332	179.655	-0.902	-6.430	178.753	-5.00	178.796	-3.07	652+10.000			179.395	178.950	179.958	-1.068	5.00	179.103	3.07	6.43	179.060	7.303	179.933	-0.873		
-7.393	179.705	-0.963	-6.430	178.742	-5.00	178.785	-3.67	653+0.000			179.413	178.968	180.031	-1.063	5.00	179.152	3.67	6.43	179.109	7.228	179.907	-0.798		
-7.393	179.724	-0.963	-6.430	178.761	-5.00	178.804	-3.67	653+10.000			179.432	178.987	180.115	-1.128	5.00	179.170	3.67	6.43	179.127	7.228	179.925	-0.798		
-7.412	179.730	-0.981	-6.430	178.749	-5.00	178.791	-4.20	653+17.787	SC		179.446	179.001	180.046	-1.045	5.00	179.211	4.20	6.43	179.169	7.291	180.029	-0.860		
-7.408	179.731	-0.978	-6.430	178.753	-5.00	178.796	-4.20	654+0.000			179.451	179.006	180.004	-0.998	5.00	179.216	4.20	6.43	179.173	7.260	180.003	-0.830		
-7.408	179.750	-0.979	-6.430	178.771	-5.00	178.814	-4.20	654+10.000			179.469	179.024	179.811	-0.787	5.00	179.234	4.20	6.43	179.191	7.260	180.022	-0.831		
-7.311	179.671	-0.881	-6.430	178.790	-5.00	178.833	-4.20	655+0.000			179.488	179.043	179.685	-0.642	5.00	179.253	4.20	6.43	179.210	7.122	179.902	-0.692		
-7.311	179.690	-0.881	-6.430	178.809	-5.00	178.852	-4.20	655+10.000			179.507	179.062	179.533	-0.471	5.00	179.272	4.20	6.43	179.229	7.122	179.921	-0.692		
-6.986	179.383	-0.556	-6.430	178.827	-5.00	178.870	-4.20	656+0.000			179.525	179.080	179.553	-0.473	5.00	179.290	4.20	6.43	179.247	6.988	179.805	-0.558		
-6.986	179.402	-0.556	-6.430	178.846	-5.00	178.889	-4.20	656+10.000			179.544	179.099	179.608	-0.509	5.00	179.309	4.20	6.43	179.266	6.988	179.824	-0.558		
-6.682	179.117	-0.252	-6.430	178.865	-5.00	178.908	-4.20	657+0.000			179.563	179.118	179.491	-0.373	5.00	179.328	4.20	6.43	179.285	6.612	179.467	-0.182		
-6.682	179.135	-0.252	-6.430	178.883	-5.00	178.926	-4.20	657+10.000			179.581	179.136	179.325	-0.189	5.00	179.346	4.20	6.43	179.303	6.612	179.486	-0.183		
-6.548	179.020	-0.118	-6.430	178.902	-5.00	178.945	-4.20	658+0.000			179.600	179.155	179.137	0.018	5.00	179.365	4.20	6.43	179.322	6.562	179.234	0.088		
-6.687	179.169	-0.257	-6.430	178.912	-5.00	178.955	-4.20	658+5.465			179.610	179.165	179.024	0.141	5.00	179.375	4.20	6.43	179.332	6.489	179.293	0.039		
-6.687	179.178	-0.257	-6.430	178.921	-5.00	178.964	-4.20	658+10.000			179.619	179.174	178.926	0.248	5.00	179.384	4.20	6.43	179.341	6.489	179.301	0.040		
-6.650	179.160	-0.221	-6.430	178.939	-5.00	178.982	-4.20	659+0.000			179.637	179.192	179.015	0.177	5.00	179.402	4.20	6.43	179.359	6.637	179.221	0.138		
-6.650	179.178	-0.220	-6.430	178.958	-5.00	179.001	-4.20	659+10.000			179.656	179.211	179.290	-0.079	5.00	179.421	4.20	6.43	179.378	6.637	179.240	0.138		
-6.539	179.086	-0.109	-6.430	178.977	-5.00	179.020	-4.20	660+0.000			179.675	179.230	179.299	-0.069	5.00	179.440	4.20	6.43	179.397	6.647	179.252	0.145		
-6.539	179.105	-0.110	-6.430	178.995	-5.00	179.038	-4.20	660+10.000			179.693	179.248	179.231	0.017	5.00	179.458	4.20	6.43	179.415	6.647	179.271	0.144		
-6.764	179.348	-0.334	-6.430	179.014	-5.00	179.057	-4.20	661+0.000			179.712	179.267	179.180	0.087	5.00	179.477	4.20	6.43	179.434	6.810	179.181	0.253		
-6.764	179.367	-0.334	-6.430	179.033	-5.00	179.076	-4.20	661+10.000			179.731	179.286	179.190	0.096	5.00	179.496	4.20	6.43	179.453	6.810	179.199	0.254		
-6.835	179.457	-0.406	-6.430	179.051	-5.00	179.094	-4.20	662+0.000			179.749	179.304	179.161	0.143	5.00	179.514	4.20	6.43	179.471	6.852	179.190	0.281		
-6.835	179.476	-0.406	-6.430	179.070	-5.00	179.113	-4.20	662+10.000			179.768	179.323	179.079	0.244	5.00	179.533	4.20	6.43	179.490	6.852	179.209	0.281		
-6.837	179.483	-0.407	-6.430	179.076	-5.00	179.119	-4.20	662+13.142	CS		179.774	179.329	179.055	0.274	5.00	179.539	4.20	6.43	179.496	6.854	179.214	0.282		
-6.829	179.498	-0.399	-6.430	179.099	-5.00	179.142	-3.99	663+0.000			179.787	179.342	179.123	0.219	5.00	179.541	3.99	6.43	179.498	6.823	179.236	0.262		
-6.829	179.517	-0.399	-6.430	179.118	-5.00	179.161	-3.99	663+10.000			179.805	179.360	179.209	0.151	5.00	179.560	3.99	6.43	179.517	6.823	179.255	0.262		
-6.800	179.536	-0.370	-6.430	179.166	-5.00	179.209	-3.39	664+0.000			179.824	179.379	179.294	0.0										



Nota de Serviço de Terraplenagem																								
Lado Esquerdo									Eixo						Lado Direito									
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Altura (m)	
-6.800	179.555	-0.370	-6.430	179.185	-5.00	179.228	-3.39	664+10.000			179.843	179.398	179.384	0.014	5.00	179.567	3.39	6.43	179.525	6.720	179.331	0.194		
-6.770	179.564	-0.341	-6.430	179.223	-5.00	179.266	-3.00	665+0.000			179.861	179.416	179.455	-0.039	5.00	179.556	2.79	6.43	179.513	6.745	179.303	0.210		
-6.770	179.583	-0.341	-6.430	179.242	-5.00	179.285	-3.00	665+10.000			179.880	179.435	179.519	-0.084	5.00	179.575	2.79	6.43	179.532	6.745	179.322	0.210		
-6.774	179.605	-0.344	-6.430	179.261	-5.00	179.304	-3.00	666+0.000			179.899	179.454	179.551	-0.097	5.00	179.563	2.19	6.43	179.521	6.456	179.547	-0.026		
-6.774	179.624	-0.345	-6.430	179.279	-5.00	179.322	-3.00	666+10.000			179.917	179.472	179.572	-0.100	5.00	179.582	2.19	6.43	179.539	6.456	179.565	-0.026		
-6.736	179.604	-0.306	-6.430	179.298	-5.00	179.341	-3.00	667+0.000			179.936	179.491	179.582	-0.091	5.00	179.571	1.59	6.43	179.528	0.000	0.000	179.528		
-6.736	179.623	-0.306	-6.430	179.317	-5.00	179.360	-3.00	667+10.000			179.955	179.510	179.590	-0.080	5.00	179.589	1.59	6.43	179.547	0.000	0.000	179.547		
-6.655	179.561	-0.225	-6.430	179.336	-5.00	179.378	-3.00	668+0.000			179.973	179.528	179.570	-0.042	5.00	179.578	0.99	6.43	179.535	6.477	179.582	-0.047		
-6.655	179.579	-0.225	-6.430	179.354	-5.00	179.397	-3.00	668+10.000			179.992	179.547	179.538	0.009	5.00	179.597	0.99	6.43	179.554	6.477	179.601	-0.047		
-6.568	179.511	-0.138	-6.430	179.373	-5.00	179.416	-3.00	669+0.000			180.011	179.566	179.517	0.049	5.00	179.585	0.39	6.43	179.543	6.588	179.701	-0.158		
-6.568	179.529	-0.137	-6.430	179.392	-5.00	179.434	-3.00	669+10.000			180.029	179.584	179.500	0.084	5.00	179.604	0.39	6.43	179.561	6.588	179.720	-0.159		
-6.445	179.387	0.010	-6.430	179.397	-5.00	179.440	-3.00	669+13.142	ST		180.035	179.590	179.494	0.096	5.00	179.590	0.00	6.43	179.547	6.604	179.722	-0.175		
-6.440	179.403	0.007	-6.430	179.410	-5.00	179.453	-3.00	670+0.000			180.048	179.603	179.466	0.137	5.00	179.593	-0.21	6.43	179.550	6.601	179.721	-0.171		
-6.570	179.354	0.094	-6.430	179.448	-5.00	179.490	-3.00	671+0.000			180.085	179.640	179.390	0.250	5.00	179.600	-0.81	6.43	179.557	6.544	179.671	-0.114		
-7.048	179.073	0.412	-6.430	179.485	-5.00	179.528	-3.00	672+0.000		PCV	180.123	179.678	179.342	0.336	5.00	179.608	-1.41	6.43	179.565	6.449	179.583	-0.018		
-6.953	179.174	0.349	-6.430	179.523	-5.00	179.566	-3.00	673+0.000			180.161	179.716	179.345	0.371	5.00	179.615	-2.01	6.43	179.572	6.535	179.502	0.070		
-6.742	179.377	0.208	-6.430	179.585	-5.00	180.223	-3.00	674+0.000			180.223	179.778	179.409	0.369	5.00	179.647	-2.61	6.43	179.604	6.651	179.457	0.147		
-6.725	179.495	0.197	-6.430	179.692	-5.00	179.735	-2.85	675+0.000		PTV	180.322	179.877	179.518	0.359	5.00	179.729	-2.97	6.43	179.686	6.757	179.468	0.218		
-6.916	179.527	0.324	-6.430	179.851	-5.00	179.893	-2.42	676+0.000			180.459	180.014	179.639	0.375	5.00	179.870	-2.88	6.43	179.827	6.814	179.572	0.255		
-7.098	179.577	0.446	-6.430	180.023	-5.00	180.066	-1.99	677+0.000			180.610	180.165	179.652	0.513	5.00	180.025	-2.80	6.43	179.982	6.937	179.644	0.338		
-7.332	179.594	0.601	-6.430	180.195	-5.00	180.238	-1.56	678+0.000			180.761	180.316	179.661	0.655	5.00	180.181	-2.71	6.43	180.138	6.981	179.770	0.368		
-7.435	179.698	0.670	-6.430	180.368	-5.00	180.411	-1.12	679+0.000			180.912	180.467	179.740	0.727	5.00	180.336	-2.62	6.43	180.293	6.934	179.956	0.337		
-7.368	179.915	0.625	-6.430	180.540	-5.00	180.583	-0.69	680+0.000			181.063	180.618	179.898	0.720	5.00	180.491	-2.54	6.43	180.448	6.927	180.116	0.332		
-7.324	180.116	0.597	-6.430	180.713	-5.00	180.755	-0.26	681+0.000			181.213	180.768	180.079	0.689	5.00	180.646	-2.45	6.43	180.603	6.902	180.288	0.315		
-7.190	180.378	0.507	-6.430	180.885	-5.00	180.928	0.17	682+0.000			181.364	180.919	180.319	0.600	5.00	180.801	-2.37	6.43	180.758	6.663	180.603	0.155		
-7.170	180.564	0.493	-6.430	181.057	-5.00	181.100	0.60	683+0.000		PCV	181.515	181.070	180.640	0.430	5.00	180.956	-2.28	6.43	180.913	6.482	180.966	-0.053		
-7.031	180.823	0.400	-6.430	181.223	-5.00	181.266	1.03	684+0.000			181.659	181.214	180.888	0.326	5.00	181.105	-2.19	6.43	181.062	6.588	181.220	-0.158		
-6.877	181.075	0.298	-6.430	181.373	-5.00	181.416	1.47	685+0.000			181.788	181.343	181.116	0.227	5.00	181.238	-2.11	6.43	181.195	6.622	181.387	-0.192		
-6.794	181.266	0.242	-6.430	181.508	-5.00	181.551	1.90	686+0.000			181.901	181.456	181.291	0.165	5.00	181.355	-2.02	6.43	181.312	6.784	181.666	-0.354		
-6.811	181.333	0.254	-6.430	181.587	-5.00	181.630	3.00	686+4.707	PC		181.925	181.480	181.354	0.126	5.00	181.380	-2.00	6.43	181.337	6.810	181.718	-0.381		
-6.811	181.360	0.254	-6.430	181.614	-5.00	181.657	3.00	686+10.000			181.952	181.507	181.424	0.083	5.00	181.407	-2.00	6.43	181.364	6.810	181.744	-0.380		
-6.621	181.520	0.127	-6.430	181.647	-5.00	181.690	2.73	687+0.000			181.998	181.553	181.473	0.080	5.00	181.451	-2.05	6.43	181.408	6.895	181.873	-0.465		
-6.621	181.563	0.127	-6.430	181.690	-5.00	181.733	2.73	687+10.000			182.041	181.596	181.488	0.108	5.00	181.494	-2.05	6.43	181.451	6.895	181.916	-0.465		
-6.510	181.658	0.053	-6.430	181.711	-5.00	181.754	2.37	688+0.000			182.080	181.635	181.513	0.122	5.00	181.530	-2.10	6.43	181.487	6.961	182.018	-0.531		
-6.510	181.693	0.053	-6.430	181.746	-5.00	181.789	2.37	688+10.000			182.115	181.670	181.543	0.127	5.00	181.565	-2.10	6.43	181.522	6.961	182.053	-0.531		
-6.501	181.830	-0.071	-6.430	181.759	-5.00	181.802	2.02	689+0.000			182.146	181.701	181.581	0.120	5.00	181.593	-2.16	6.43	181.550	7.009	182.130	-0.580		
-6.501	181.858	-0.071	-6.430	181.787	-5.00	181.830	2.02	689+10.000			182.174	181.729	181.621	0.108	5.00	181.621	-2.16	6.43	181.578	7.009	182.157	-0.579		
-6.486	181.848	-0.056	-6.430	181.792	-5.00	181.835	1.66	690+0.000			182.197	181.752	181.596	0.156	5.00	181.641	-2.22	6.43	181.598	6.942	182.110	-0.512		
-6.486	181.868	-0.056	-6.430	181.812	-5.00	181.855	1.66	690+10.000			182.217	181.772	181.542	0.230	5.00	181.660	-2.22	6.43	181.617	6.942	182.129	-0.512		
-7.166	181.319	0.490	-6.430	181.809	-5.00	181.852	1.30	691+0.000			182.232	181.787	181.497	0.290	5.00	181.673	-2.28	6.43	181.630	6.941	181.603	0.027		
-7.166	181.330	0.491	-6.430	181.821	-5.00	181.864	1.30	691+10.000			182.244	181.799	181.463	0.336	5.00	181.685	-2.28	6.43	181.642	6.471	181.614	0.028		
-7.650	180.998	0.813	-6.430	181.811	-5.00	181.854	0.95	692+0.000			182.252	181.807	181.114	0.693	5.00	181.689	-2.34	6.43	181.647	6.875	181.350	0.297		
-7.650	181.002	0.813	-6.430	181.815	-5.00	181.858	0.95	692+10.000			182.255	181.810	180.637	1.173	5.00	181.693	-2.34	6.43	181.650	6.875	181.354	0.296		
-7.826	180.866	0.931	-6.430	181.797	-5.00	181.840	0.59	693+0.000			182.255	181.810	180.889	0.941	5.00	181.690	-2.40	6.43	181.647	7.153	181.165	0.482		
-7.826	180.862	0.931	-6.430	181.793	-5.00	181.836	0.59	693+10.000			182.251	181.806	181.395	0.411	5.00	181.686	-2.40	6.43	181.643	7.153	181.161	0.482		
-6.846	181.490	0.277	-6.430	181.767	-5.00	181.810	0.24	694+0.000			182.244	181.799	181.527	0.272	5.00	181.676	-2.46	6.43	181.633	6.471	181.674	-0.041		
-6.846	181.479	0.277	-6.430	181.756	-5.00	181.799	0.24	694+10.000			182.232	181.787	181.506	0.281	5.00	181.664	-2.46	6.43	181.621	6.471	181.662	-0.041		
-6.817	181.481	0.258	-6.430	181.739	-5.00	181.782	0.00	694+13.278			182.227	181.782	181.497	0.285	5.00	181.657	-2.50	6.43	181.614	6.544	181.728	-0.114		
-6.838	181.450	0.272	-6.430	181.722	-5.00	181.765	-0.12	695+0.000			182.216	181.771	181.415	0.356	5.00	181.645	-2.52	6.						



Nota de Serviço de Terraplenagem																										
Lado Esquerdo									Eixo									Lado Direito								
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset				
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)
-6.838	181.431	0.272	-6.430	181.703	-5.00	181.746	-0.12	695+10.000			182.197	181.752	181.303	0.449	5.00	181.626	-2.52	6.43	181.583	6.522	181.674	-0.091				
-6.747	181.450	0.212	-6.430	181.662	-5.00	181.704	-0.48	696+0.000			182.173	181.728	181.266	0.462	5.00	181.599	-2.58	6.43	181.556	6.548	181.674	-0.118				
-6.747	181.423	0.211	-6.430	181.634	-5.00	181.677	-0.48	696+10.000			182.146	181.701	181.259	0.442	5.00	181.572	-2.58	6.43	181.529	6.548	181.647	-0.118				
-6.453	181.570	0.015	-6.430	181.585	-5.00	181.628	-0.83	697+0.000			182.115	181.670	181.280	0.390	5.00	181.538	-2.64	6.43	181.495	6.679	181.744	-0.249				
-6.453	181.534	0.016	-6.430	181.550	-5.00	181.593	-0.83	697+10.000			182.079	181.634	181.305	0.329	5.00	181.503	-2.64	6.43	181.460	6.679	181.709	-0.249				
-6.622	181.685	-0.192	-6.430	181.493	-5.00	181.536	-1.19	698+0.000			182.040	181.595	181.343	0.252	5.00	181.461	-2.70	6.43	181.418	6.694	181.682	-0.264				
-6.622	181.642	-0.192	-6.430	181.450	-5.00	181.493	-1.19	698+10.000			181.998	181.553	181.377	0.176	5.00	181.418	-2.70	6.43	181.375	6.694	181.639	-0.264				
-6.726	181.681	-0.295	-6.430	181.386	-5.00	181.428	-1.54	699+0.000			181.951	181.506	181.382	0.124	5.00	181.368	-2.76	6.43	181.325	6.718	181.613	-0.288				
-6.726	181.631	-0.296	-6.430	181.335	-5.00	181.378	-1.54	699+10.000			181.900	181.455	181.379	0.076	5.00	181.317	-2.76	6.43	181.274	6.718	181.562	-0.288				
-6.453	181.247	0.015	-6.430	181.262	-5.00	181.305	-1.90	700+0.000			181.845	181.400	181.337	0.063	5.00	181.259	-2.82	6.43	181.217	6.764	181.551	-0.334				
-6.453	181.188	0.016	-6.430	181.204	-5.00	181.247	-1.90	700+10.000			181.787	181.342	181.278	0.064	5.00	181.201	-2.82	6.43	181.158	6.764	181.492	-0.334				
-6.662	181.355	-0.231	-6.430	181.124	-5.00	181.167	-2.26	701+0.000			181.724	181.279	181.225	0.054	5.00	181.135	-2.88	6.43	181.093	6.728	181.391	-0.298				
-6.662	181.289	-0.232	-6.430	181.057	-5.00	181.100	-2.26	701+10.000			181.658	181.213	181.176	0.037	5.00	181.069	-2.88	6.43	181.026	6.728	181.324	-0.298				
-6.735	181.274	-0.305	-6.430	180.969	-5.00	181.012	-2.61	702+0.000			181.588	181.143	181.096	0.047	5.00	180.996	-2.94	6.43	180.953	6.720	181.243	-0.290				
-6.735	181.200	-0.305	-6.430	180.895	-5.00	180.938	-2.61	702+10.000			181.514	181.069	181.005	0.064	5.00	180.922	-2.94	6.43	180.879	6.720	181.169	-0.290				
-6.790	181.160	-0.361	-6.430	180.799	-5.00	180.842	-2.97	703+0.000			181.435	180.990	180.911	0.079	5.00	180.841	-2.99	6.43	180.798	6.778	181.146	-0.348				
-6.485	181.138	-0.055	-6.430	181.083	-5.00	181.126	3.00	703+1.848	PT		181.421	180.976	180.894	0.082	5.00	180.826	-3.00	6.43	180.783	6.767	181.120	-0.337				
-6.535	180.988	-0.105	-6.430	180.883	-5.00	180.926	2.06	704+0.000			181.268	180.823	180.723	0.100	5.00	180.720	-2.06	6.43	180.677	6.637	180.884	-0.207				
-6.542	180.759	-0.112	-6.430	180.647	-5.00	180.690	1.02	705+0.000			181.084	180.639	180.546	0.093	5.00	180.588	-1.02	6.43	180.545	6.557	180.673	-0.128				
-6.603	180.569	-0.173	-6.430	180.396	-5.00	180.439	-0.02	706+0.000			180.885	180.440	180.380	0.060	5.00	180.441	0.02	6.43	180.398	6.602	180.570	-0.172				
-6.713	180.413	-0.283	-6.430	180.130	-5.00	180.173	-1.06	707+0.000			180.671	180.226	180.207	0.019	5.00	180.279	1.06	6.43	180.236	6.629	180.435	-0.199				
-6.812	180.257	-0.382	-6.430	179.875	-5.00	179.918	-2.00	707+18.126	PC		180.463	180.018	180.044	-0.026	5.00	180.168	3.00	6.43	180.125	6.574	180.269	-0.144				
-6.817	180.239	-0.387	-6.430	179.852	-5.00	179.895	-2.00	708+0.000			180.441	179.996	180.026	-0.030	5.00	180.145	2.98	6.43	180.102	6.581	180.253	-0.151				
-6.817	180.118	-0.386	-6.430	179.732	-5.00	179.774	-2.00	708+10.000			180.320	179.875	179.930	-0.055	5.00	180.024	2.98	6.43	179.981	6.581	180.132	-0.151				
-6.922	180.097	-0.492	-6.430	179.605	-5.00	179.648	-2.03	709+0.000			180.195	179.750	179.837	-0.087	5.00	179.888	2.77	6.43	179.845	6.668	180.084	-0.239				
-6.922	179.968	-0.492	-6.430	179.476	-5.00	179.519	-2.03	709+10.000			180.066	179.621	179.744	-0.123	5.00	179.759	2.77	6.43	179.716	6.668	179.955	-0.239				
-6.992	179.904	-0.562	-6.430	179.342	-5.00	179.385	-2.06	710+0.000			179.933	179.488	179.620	-0.132	5.00	179.616	2.55	6.43	179.573	6.749	179.892	-0.319				
-6.992	179.768	-0.562	-6.430	179.206	-5.00	179.249	-2.06	710+10.000			179.797	179.352	179.483	-0.131	5.00	179.479	2.55	6.43	179.437	6.749	179.756	-0.319				
-6.972	179.606	-0.542	-6.430	179.064	-5.00	179.107	-2.09	711+0.000			179.656	179.211	179.356	-0.145	5.00	179.328	2.34	6.43	179.285	6.721	179.577	-0.292				
-6.972	179.461	-0.542	-6.430	178.919	-5.00	178.962	-2.09	711+10.000			179.512	179.067	179.232	-0.165	5.00	179.184	2.34	6.43	179.141	6.721	179.432	-0.291				
-6.911	179.250	-0.480	-6.430	178.770	-5.00	178.812	-2.13	712+0.000			179.364	178.919	179.058	-0.139	5.00	179.025	2.13	6.43	178.982	6.531	179.083	-0.101				
-6.911	179.098	-0.481	-6.430	178.617	-5.00	178.660	-2.13	712+10.000			179.212	178.767	178.865	-0.098	5.00	178.873	2.13	6.43	178.830	6.531	178.931	-0.101				
-6.977	179.006	-0.546	-6.430	178.460	-5.00	178.503	-2.16	713+0.000		PTV	179.056	178.611	178.656	-0.045	5.00	178.706	1.92	6.43	178.663	6.455	178.689	-0.026				
-6.977	178.849	-0.546	-6.430	178.303	-5.00	178.345	-2.16	713+10.000			178.898	178.453	178.441	0.012	5.00	178.549	1.92	6.43	178.506	6.455	178.531	-0.025				
-6.927	178.640	-0.496	-6.430	178.144	-5.00	178.187	-2.19	714+0.000			178.741	178.296	178.228	0.068	5.00	178.381	1.70	6.43	178.338	6.499	178.407	-0.069				
-6.927	178.483	-0.497	-6.430	177.986	-5.00	178.029	-2.19	714+10.000			178.584	178.139	178.011	0.128	5.00	178.224	1.70	6.43	178.181	6.499	178.250	-0.069				
-6.954	178.351	-0.524	-6.430	177.827	-5.00	177.870	-2.22	715+0.000			178.426	177.981	177.844	0.137	5.00	178.056	1.49	6.43	178.013	6.518	178.101	-0.088				
-6.954	178.194	-0.524	-6.430	177.670	-5.00	177.713	-2.22	715+10.000			178.269	177.824	177.694	0.130	5.00	177.898	1.49	6.43	177.855	6.518	177.944	-0.089				
-6.939	178.020	-0.509	-6.430	177.511	-5.00	177.554	-2.25	716+0.000			178.111	177.666	177.624	0.042	5.00	177.730	1.28	6.43	177.687	6.594	177.851	-0.164				
-6.939	177.863	-0.509	-6.430	177.354	-5.00	177.397	-2.25	716+10.000			177.954	177.509	177.593	-0.084	5.00	177.573	1.28	6.43	177.530	6.594	177.694	-0.164				
-6.902	177.667	-0.472	-6.430	177.195	-5.00	177.238	-2.28	717+0.000			177.797	177.352	177.507	-0.155	5.00	177.405	1.06	6.43	177.362	6.595	177.527	-0.165				
-6.902	177.509	-0.471	-6.430	177.038	-5.00	177.081	-2.28	717+10.000			177.639	177.194	177.406	-0.212	5.00	177.248	1.06	6.43	177.205	6.595	177.369	-0.164				
-6.732	177.181	-0.302	-6.430	176.879	-5.00	176.922	-2.31	718+0.000			177.482	177.037	177.182	-0.145	5.00	177.080	0.85	6.43	177.037	6.452	177.022	0.015				
-6.732	177.024	-0.303	-6.430	176.721	-5.00	176.764	-2.31	718+10.000			177.325	176.880	176.914	-0.034	5.00	176.922	0.85	6.43	176.879	6.452	176.865	0.014				
-6.469	176.601	-0.038	-6.430	176.563	-5.00	176.606	-2.34	719+0.000			177.167	176.722	176.748	-0.026	5.00	176.754	0.64	6.43	176.711	6.573	176.616	0.095				
-6.469	176.444	-0.039	-6.430	176.405	-5.00	176.448	-2.34	719+10.000			177.010	176.565	176.634	-0.069	5.00	176.597	0.64	6.43	176.554	6.573	176.458	0.096				
-6.511	176.193	0.053	-6.430	176.246	-5.00	176.289	-2.37	720+0.000			176.853	176.408	176.360	0.048	5.00	176.429	0.42	6.43	176.386	6.545	176.309	0.077				
-6.511	176.035	0.054	-6.430	176.089	-5.00	176.132	-2.37	720+10.000			176.695	176.250	176.029	0.221	5.00	176.272	0.42	6.43	176.229	6.545	176.152	0.077				
-6.508	176.008	-0.078	-6.430	175.930	-5.00	175.973	-2.40	721+0.000			176.538	176.093	175.835	0												



Nota de Serviço de Terraplenagem																								
Lado Esquerdo									Eixo											Lado Direito				
Offset			Lateral			Bordo			Estaca	Pontos Notáveis da Geometria Horizontal	Pontos Notáveis da Geometria Vertical	Cota Acabado	Cota Terraplenagem	Cota Terreno	Cota Vermelha	Bordo			Lateral			Offset		
Afast. (m)	Cota (m)	Altura (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)								Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)
-6.508	175.851	-0.078	-6.430	175.773	-5.00	175.816	-2.40	721+10.000			176.381	175.936	175.691	0.245	5.00	175.946	0.21	6.43	175.903	6.509	175.851	0.052		
-6.454	175.801	0.016	-6.430	175.617	-5.00	175.660	-2.43	721+19.831			176.226	175.781	175.532	0.249	5.00	175.781	0.00	6.43	175.738	6.495	175.695	0.043		
-6.454	175.598	0.016	-6.430	175.614	-5.00	175.657	-2.43	722+0.000			176.223	175.778	175.529	0.249	5.00	175.778	0.00	6.43	175.735	6.495	175.692	0.043		
-6.454	175.441	0.016	-6.430	175.457	-5.00	175.500	-2.43	722+10.000			176.066	175.621	175.359	0.262	5.00	175.621	0.00	6.43	175.578	6.495	175.535	0.043		
-6.509	175.245	0.053	-6.430	175.298	-5.00	175.341	-2.46	723+0.000			175.909	175.464	175.129	0.335	5.00	175.453	-0.21	6.43	175.410	6.525	175.347	0.063		
-6.509	175.088	0.052	-6.430	175.140	-5.00	175.183	-2.46	723+10.000			175.751	175.306	174.873	0.433	5.00	175.296	-0.21	6.43	175.253	6.525	175.189	0.064		
-6.562	174.894	0.088	-6.430	174.982	-5.00	175.024	-2.49	724+0.000			175.594	175.149	174.729	0.420	5.00	175.128	-0.43	6.43	175.085	6.694	174.909	0.176		
-6.562	174.736	0.088	-6.430	174.824	-5.00	174.867	-2.49	724+10.000			175.437	174.992	174.636	0.356	5.00	174.970	-0.43	6.43	174.927	6.694	174.752	0.175		
-6.655	174.515	0.150	-6.430	174.665	-5.00	174.708	-2.52	725+0.000			175.279	174.834	174.435	0.399	5.00	174.802	-0.64	6.43	174.759	6.790	174.520	0.239		
-6.655	174.358	0.150	-6.430	174.508	-5.00	174.551	-2.52	725+10.000			175.122	174.677	174.193	0.484	5.00	174.645	-0.64	6.43	174.602	6.790	174.362	0.240		
-6.574	174.253	0.096	-6.430	174.349	-5.00	174.392	-2.55	726+0.000			174.965	174.520	173.996	0.524	5.00	174.477	-0.85	6.43	174.434	6.750	174.220	0.214		
-6.574	174.096	0.096	-6.430	174.192	-5.00	174.235	-2.55	726+10.000			174.807	174.362	173.814	0.548	5.00	174.320	-0.85	6.43	174.277	6.750	174.063	0.214		
-6.573	173.938	0.095	-6.430	174.033	-5.00	174.076	-2.58	727+0.000			174.650	174.205	173.595	0.610	5.00	174.152	-1.07	6.43	174.109	6.942	173.767	0.342		
-6.573	173.780	0.096	-6.430	173.876	-5.00	173.918	-2.58	727+10.000			174.493	174.048	173.359	0.689	5.00	173.994	-1.07	6.43	173.951	6.942	173.610	0.341		
-6.731	173.516	0.201	-6.430	173.717	-5.00	173.760	-2.61	728+0.000			174.335	173.890	173.290	0.600	5.00	173.826	-1.28	6.43	173.783	6.950	173.437	0.346		
-6.731	173.359	0.200	-6.430	173.559	-5.00	173.602	-2.61	728+10.000			174.178	173.733	173.286	0.447	5.00	173.669	-1.28	6.43	173.626	6.950	173.280	0.346		
-6.544	173.515	-0.114	-6.430	173.401	-5.00	173.443	-2.64	729+0.000			174.021	173.576	173.094	0.482	5.00	173.501	-1.49	6.43	173.458	6.762	173.236	0.222		
-6.544	173.357	-0.114	-6.430	173.243	-5.00	173.286	-2.64	729+10.000			173.863	173.418	172.824	0.594	5.00	173.344	-1.49	6.43	173.301	6.762	173.079	0.222		
			-6.430	173.084	-5.00	173.127	-2.67	730+0.000			173.706	173.261	172.686	0.575	5.00	173.176	-1.71	6.43	173.133	6.865	172.843	0.290		
			-6.430	172.927	-5.00	172.970	-2.67	730+10.000			173.549	173.104	172.601	0.503	5.00	173.018	-1.71	6.43	172.975	6.865	172.685	0.290		
-6.783	173.121	-0.353	-6.430	172.768	-5.00	172.811	-2.71	731+0.000			173.391	172.946	172.587	0.359	5.00	172.850	-1.92	6.43	172.807					
-6.783	172.963	-0.352	-6.430	172.611	-5.00	172.654	-2.71	731+10.000			173.234	172.789	172.601	0.188	5.00	172.693	-1.92	6.43	172.650					
-7.011	173.033	-0.581	-6.430	172.452	-5.00	172.495	-2.74	732+0.000			173.077	172.632	172.544	0.088	5.00	172.525	-2.13	6.43	172.482	6.586	172.639	-0.157		
-7.011	172.876	-0.581	-6.430	172.295	-5.00	172.337	-2.74	732+10.000			172.919	172.474	172.465	0.009	5.00	172.368	-2.13	6.43	172.325	6.586	172.481	-0.156		
-6.973	172.679	-0.543	-6.430	172.136	-5.00	172.179	-2.77	733+0.000			172.762	172.317	172.405	-0.088	5.00	172.200	-2.34	6.43	172.157	6.547	172.274	-0.117		
-6.973	172.522	-0.544	-6.430	171.978	-5.00	172.021	-2.77	733+10.000			172.605	172.160	172.355	-0.195	5.00	172.042	-2.34	6.43	171.999	6.547	172.117	-0.118		
-7.058	172.448	-0.629	-6.430	171.819	-5.00	171.862	-2.80	734+0.000			172.447	172.002	172.132	-0.130	5.00	171.874	-2.56	6.43	171.831	6.643	172.044	-0.213		
-7.058	172.290	-0.628	-6.430	171.662	-5.00	171.705	-2.80	734+10.000			172.290	171.845	171.841	0.004	5.00	171.717	-2.56	6.43	171.674	6.643	171.887	-0.213		
-6.958	172.031	-0.528	-6.430	171.503	-5.00	171.546	-2.83	735+0.000			172.133	171.688	171.728	-0.040	5.00	171.549	-2.77	6.43	171.506	6.623	171.699	-0.193		
-6.958	171.873	-0.527	-6.430	171.346	-5.00	171.389	-2.83	735+10.000			171.975	171.530	171.688	-0.158	5.00	171.392	-2.77	6.43	171.349	6.623	171.541	-0.192		
-7.003	171.760	-0.573	-6.430	171.187	-5.00	171.230	-2.86	736+0.000			171.818	171.373	171.670	-0.297	5.00	171.224	-2.98	6.43	171.181	6.733	171.483	-0.302		
-7.036	171.769	-0.606	-6.430	171.163	-5.00	171.206	-2.86	736+1.536	PT		171.794	171.349	171.669	-0.320	5.00	171.499	3.00	6.43	171.456	6.456	171.482	-0.026		
-7.465	171.906	-1.035	-6.430	170.871	-5.00	170.914	-2.89	737+0.000			171.503	171.058	171.630	-0.572	5.00	171.148	1.79	6.43	171.105	6.745	171.419	-0.314		
-7.701	171.826	-1.271	-6.430	170.555	-5.00	170.598	-2.92	738+0.000			171.188	170.743	171.447	-0.704	5.00	170.767	0.48	6.43	170.724	7.109	171.404	-0.680		
-7.632	171.441	-1.203	-6.430	170.238	-5.00	170.281	-2.95	739+0.000			170.874	170.429	171.077	-0.648	5.00	170.387	-0.83	6.43	170.344	7.203	171.117	-0.773		
-7.545	171.037	-1.115	-6.430	169.922	-5.00	169.965	-2.98	740+0.000			170.559	170.114	170.654	-0.540	5.00	170.007	-2.15	6.43	169.964	7.279	170.813	-0.849		
-7.411	170.698	-0.982	-6.430	169.716	-5.00	169.759	-3.00	740+13.031			170.354	169.909	170.354	-0.445	5.00	169.759	-3.00	6.43	169.716	7.274	170.560	-0.844		

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5. COORDENADAS DE EIXO



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SINFRACAP202622214A



Estaca	Norte	Este
0+0,000	8.245.066,430	576.735,730
0+9,638 TE	8.245.059,667	576.728,863
1+0,000	8.245.052,393	576.721,484
2+0,000	8.245.038,267	576.707,325
3+0,000	8.245.023,897	576.693,416
4+0,000	8.245.009,128	576.679,931
5+0,000	8.244.993,825	576.667,057
5+19,638 EC	8.244.978,167	576.655,209
6+0,000	8.244.977,872	576.654,999
7+0,000	8.244.961,207	576.643,947
7+0,251 CE	8.244.960,993	576.643,815
8+0,000	8.244.943,892	576.633,943
9+0,000	8.244.926,079	576.624,853
10+0,000	8.244.907,912	576.616,492
11+0,000	8.244.889,509	576.608,661
12+0,000	8.244.870,972	576.601,152
12+10,251 ET	8.244.861,448	576.597,360
13+0,000	8.244.852,389	576.593,758
14+0,000	8.244.833,805	576.586,368
15+0,000	8.244.815,220	576.578,978
16+0,000	8.244.796,635	576.571,589
17+0,000	8.244.778,050	576.564,199
18+0,000	8.244.759,466	576.556,809
19+0,000	8.244.740,881	576.549,419
20+0,000	8.244.722,296	576.542,030
21+0,000	8.244.703,712	576.534,640
22+0,000	8.244.685,127	576.527,250
23+0,000	8.244.666,542	576.519,860
24+0,000	8.244.647,957	576.512,471
25+0,000	8.244.629,373	576.505,081
26+0,000	8.244.610,788	576.497,691
27+0,000	8.244.592,203	576.490,301
28+0,000	8.244.573,619	576.482,912
29+0,000	8.244.555,034	576.475,522
30+0,000	8.244.536,449	576.468,132
31+0,000	8.244.517,864	576.460,742
32+0,000	8.244.499,280	576.453,353
33+0,000	8.244.480,695	576.445,963
34+0,000	8.244.462,110	576.438,573
35+0,000	8.244.443,526	576.431,183
36+0,000	8.244.424,941	576.423,794
37+0,000	8.244.406,356	576.416,404
38+0,000	8.244.387,771	576.409,014
39+0,000	8.244.369,187	576.401,624
40+0,000	8.244.350,602	576.394,235
41+0,000	8.244.332,017	576.386,845
42+0,000	8.244.313,433	576.379,455

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Estaca	Norte	Este
43+0,000	8.244.294,848	576.372,065
44+0,000	8.244.276,263	576.364,676
45+0,000	8.244.257,678	576.357,286
46+0,000	8.244.239,094	576.349,896
47+0,000	8.244.220,509	576.342,506
48+0,000	8.244.201,924	576.335,117
49+0,000	8.244.183,340	576.327,727
50+0,000	8.244.164,755	576.320,337
51+0,000	8.244.146,170	576.312,947
52+0,000	8.244.127,585	576.305,558
53+0,000	8.244.109,001	576.298,168
54+0,000	8.244.090,416	576.290,778
55+0,000	8.244.071,831	576.283,388
56+0,000	8.244.053,247	576.275,999
57+0,000	8.244.034,662	576.268,609
58+0,000	8.244.016,077	576.261,219
59+0,000	8.243.997,492	576.253,829
60+0,000	8.243.978,908	576.246,440
61+0,000	8.243.960,323	576.239,050
62+0,000	8.243.941,738	576.231,660
63+0,000	8.243.923,154	576.224,270
64+0,000	8.243.904,569	576.216,881
65+0,000	8.243.885,984	576.209,491
65+14,119 TE	8.243.872,865	576.204,274
66+0,000	8.243.867,400	576.202,101
67+0,000	8.243.848,823	576.194,690
68+0,000	8.243.830,279	576.187,200
69+0,000	8.243.811,791	576.179,571
70+0,000	8.243.793,386	576.171,744
71+0,000	8.243.775,094	576.163,659
72+0,000	8.243.756,943	576.155,259
73+0,000	8.243.738,970	576.146,488
73+14,119 EC	8.243.726,408	576.140,043
74+0,000	8.243.721,210	576.137,292
75+0,000	8.243.703,695	576.127,637
76+0,000	8.243.686,439	576.117,528
77+0,000	8.243.669,452	576.106,972
78+0,000	8.243.652,747	576.095,975
79+0,000	8.243.636,336	576.084,546
80+0,000	8.243.620,228	576.072,691
81+0,000	8.243.604,436	576.060,420
82+0,000	8.243.588,971	576.047,740
82+8,289 CE	8.243.582,659	576.042,367
83+0,000	8.243.573,840	576.034,661
84+0,000	8.243.559,030	576.021,221
85+0,000	8.243.544,505	576.007,473
86+0,000	8.243.530,225	575.993,470
87+0,000	8.243.516,149	575.979,263

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Estaca	Norte	Este
88+0,000	8.243.502,232	575.964,899
89+0,000	8.243.488,428	575.950,426
90+0,000	8.243.474,692	575.935,889
90+8,289 ET	8.243.469,008	575.929,856
91+0,000	8.243.460,977	575.921,332
92+0,000	8.243.447,263	575.906,775
93+0,000	8.243.433,548	575.892,218
94+0,000	8.243.419,834	575.877,661
95+0,000	8.243.406,119	575.863,103
96+0,000	8.243.392,405	575.848,546
97+0,000	8.243.378,691	575.833,989
98+0,000	8.243.364,976	575.819,432
99+0,000	8.243.351,262	575.804,874
100+0,000	8.243.337,547	575.790,317
101+0,000	8.243.323,833	575.775,760
102+0,000	8.243.310,118	575.761,202
103+0,000	8.243.296,404	575.746,645
104+0,000	8.243.282,690	575.732,088
105+0,000	8.243.268,975	575.717,531
106+0,000	8.243.255,261	575.702,973
107+0,000	8.243.241,546	575.688,416
108+0,000	8.243.227,832	575.673,859
109+0,000	8.243.214,117	575.659,301
110+0,000	8.243.200,403	575.644,744
111+0,000	8.243.186,689	575.630,187
112+0,000	8.243.172,974	575.615,630
112+15,221 TE	8.243.162,537	575.604,551
113+0,000	8.243.159,259	575.601,073
114+0,000	8.243.145,465	575.586,591
115+0,000	8.243.131,363	575.572,410
116+0,000	8.243.116,720	575.558,790
117+0,000	8.243.101,335	575.546,016
117+15,221 EC	8.243.089,031	575.537,060
118+0,000	8.243.085,054	575.534,411
119+0,000	8.243.067,839	575.524,243
120+0,000	8.243.049,806	575.515,607
121+0,000	8.243.031,092	575.508,571
122+0,000	8.243.011,837	575.503,186
122+8,698 CE	8.243.003,331	575.501,371
123+0,000	8.242.992,188	575.499,484
124+0,000	8.242.972,312	575.497,301
125+0,000	8.242.952,339	575.496,309
126+0,000	8.242.932,340	575.496,164
127+0,000	8.242.912,343	575.496,517
127+8,698 ET	8.242.903,648	575.496,739
128+0,000	8.242.892,350	575.497,032
129+0,000	8.242.872,357	575.497,552
130+0,000	8.242.852,364	575.498,072

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Estaca	Norte	Este
131+0,000	8.242.832,370	575.498,592
132+0,000	8.242.812,377	575.499,112
133+0,000	8.242.792,384	575.499,632
134+0,000	8.242.772,391	575.500,152
135+0,000	8.242.752,397	575.500,672
136+0,000	8.242.732,404	575.501,192
137+0,000	8.242.712,411	575.501,712
138+0,000	8.242.692,418	575.502,232
139+0,000	8.242.672,424	575.502,752
140+0,000	8.242.652,431	575.503,272
141+0,000	8.242.632,438	575.503,792
142+0,000	8.242.612,445	575.504,312
143+0,000	8.242.592,451	575.504,832
144+0,000	8.242.572,458	575.505,352
145+0,000	8.242.552,465	575.505,872
146+0,000	8.242.532,472	575.506,392
147+0,000	8.242.512,478	575.506,912
148+0,000	8.242.492,485	575.507,432
149+0,000	8.242.472,492	575.507,952
150+0,000	8.242.452,499	575.508,472
151+0,000	8.242.432,505	575.508,992
152+0,000	8.242.412,512	575.509,512
153+0,000	8.242.392,519	575.510,031
154+0,000	8.242.372,526	575.510,551
155+0,000	8.242.352,533	575.511,071
156+0,000	8.242.332,539	575.511,591
157+0,000	8.242.312,546	575.512,111
158+0,000	8.242.292,553	575.512,631
159+0,000	8.242.272,560	575.513,151
160+0,000	8.242.252,566	575.513,671
161+0,000	8.242.232,573	575.514,191
162+0,000	8.242.212,580	575.514,711
163+0,000	8.242.192,587	575.515,231
164+0,000	8.242.172,593	575.515,751
165+0,000	8.242.152,600	575.516,271
166+0,000	8.242.132,607	575.516,791
167+0,000	8.242.112,614	575.517,311
168+0,000	8.242.092,620	575.517,831
169+0,000	8.242.072,627	575.518,351
170+0,000	8.242.052,634	575.518,871
170+1,653 PC	8.242.050,981	575.518,914
171+0,000	8.242.032,643	575.519,474
172+0,000	8.242.012,659	575.520,274
173+0,000	8.241.992,684	575.521,272
174+0,000	8.241.972,720	575.522,467
175+0,000	8.241.952,769	575.523,860
176+0,000	8.241.932,832	575.525,450
177+0,000	8.241.912,912	575.527,237

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Estaca	Norte	Este
178+0,000	8.241.893,011	575.529,221
179+0,000	8.241.873,130	575.531,401
180+0,000	8.241.853,272	575.533,778
181+0,000	8.241.833,438	575.536,352
181+4,442 PT	8.241.829,037	575.536,950
182+0,000	8.241.813,623	575.539,062
183+0,000	8.241.793,808	575.541,777
184+0,000	8.241.773,993	575.544,492
185+0,000	8.241.754,178	575.547,207
185+7,367 PC	8.241.746,879	575.548,207
186+0,000	8.241.734,353	575.549,844
187+0,000	8.241.714,483	575.552,115
188+0,000	8.241.694,571	575.553,992
189+0,000	8.241.674,627	575.555,475
190+0,000	8.241.654,657	575.556,564
191+0,000	8.241.634,669	575.557,257
192+0,000	8.241.614,672	575.557,555
193+0,000	8.241.594,672	575.557,457
194+0,000	8.241.574,678	575.556,963
195+0,000	8.241.554,699	575.556,075
196+0,000	8.241.534,740	575.554,791
197+0,000	8.241.514,811	575.553,113
198+0,000	8.241.494,919	575.551,041
198+8,584 PT	8.241.486,395	575.550,031
199+0,000	8.241.475,064	575.548,639
200+0,000	8.241.455,213	575.546,202
201+0,000	8.241.435,362	575.543,765
202+0,000	8.241.415,511	575.541,327
203+0,000	8.241.395,660	575.538,890
204+0,000	8.241.375,809	575.536,453
205+0,000	8.241.355,958	575.534,015
206+0,000	8.241.336,107	575.531,578
206+0,789 PC	8.241.335,324	575.531,482
207+0,000	8.241.316,245	575.529,231
208+0,000	8.241.296,361	575.527,081
209+0,000	8.241.276,457	575.525,127
210+0,000	8.241.256,535	575.523,370
211+0,000	8.241.236,596	575.521,811
212+0,000	8.241.216,642	575.520,449
213+0,000	8.241.196,676	575.519,284
214+0,000	8.241.176,700	575.518,316
215+0,000	8.241.156,715	575.517,547
216+0,000	8.241.136,723	575.516,975
217+0,000	8.241.116,726	575.516,600
217+18,482 PT	8.241.098,245	575.516,430
218+0,000	8.241.096,727	575.516,423
219+0,000	8.241.076,727	575.516,331
220+0,000	8.241.056,728	575.516,238

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Estaca	Norte	Este
221+0,000	8.241.036,728	575.516,145
222+0,000	8.241.016,728	575.516,053
223+0,000	8.240.996,728	575.515,960
224+0,000	8.240.976,729	575.515,868
225+0,000	8.240.956,729	575.515,775
226+0,000	8.240.936,729	575.515,682
227+0,000	8.240.916,729	575.515,590
228+0,000	8.240.896,729	575.515,497
229+0,000	8.240.876,730	575.515,404
230+0,000	8.240.856,730	575.515,312
231+0,000	8.240.836,730	575.515,219
232+0,000	8.240.816,730	575.515,127
233+0,000	8.240.796,730	575.515,034
234+0,000	8.240.776,731	575.514,941
235+0,000	8.240.756,731	575.514,849
236+0,000	8.240.736,731	575.514,756
237+0,000	8.240.716,731	575.514,663
238+0,000	8.240.696,732	575.514,571
239+0,000	8.240.676,732	575.514,478
240+0,000	8.240.656,732	575.514,386
241+0,000	8.240.636,732	575.514,293
242+0,000	8.240.616,732	575.514,200
243+0,000	8.240.596,733	575.514,108
244+0,000	8.240.576,733	575.514,015
245+0,000	8.240.556,733	575.513,922
246+0,000	8.240.536,733	575.513,830
247+0,000	8.240.516,733	575.513,737
248+0,000	8.240.496,734	575.513,645
249+0,000	8.240.476,734	575.513,552
250+0,000	8.240.456,734	575.513,459
251+0,000	8.240.436,734	575.513,367
252+0,000	8.240.416,735	575.513,274
253+0,000	8.240.396,735	575.513,182
254+0,000	8.240.376,735	575.513,089
255+0,000	8.240.356,735	575.512,996
256+0,000	8.240.336,735	575.512,904
257+0,000	8.240.316,736	575.512,811
258+0,000	8.240.296,736	575.512,718
259+0,000	8.240.276,736	575.512,626
260+0,000	8.240.256,736	575.512,533
261+0,000	8.240.236,736	575.512,441
262+0,000	8.240.216,737	575.512,348
263+0,000	8.240.196,737	575.512,255
264+0,000	8.240.176,737	575.512,163
265+0,000	8.240.156,737	575.512,070
266+0,000	8.240.136,738	575.511,977
266+7,760 PC	8.240.128,978	575.511,941
267+0,000	8.240.116,738	575.511,917

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Estaca	Norte	Este
268+0,000	8.240.096,738	575.512,018
269+0,000	8.240.076,740	575.512,292
270+0,000	8.240.056,745	575.512,739
271+0,000	8.240.036,755	575.513,360
272+0,000	8.240.016,771	575.514,155
273+0,000	8.239.996,794	575.515,123
274+0,000	8.239.976,827	575.516,264
275+0,000	8.239.956,870	575.517,579
276+0,000	8.239.936,925	575.519,066
277+0,000	8.239.916,995	575.520,727
278+0,000	8.239.897,079	575.522,561
279+0,000	8.239.877,180	575.524,567
280+0,000	8.239.857,299	575.526,746
281+0,000	8.239.837,438	575.529,098
282+0,000	8.239.817,598	575.531,621
283+0,000	8.239.797,780	575.534,317
284+0,000	8.239.777,987	575.537,185
285+0,000	8.239.758,219	575.540,225
286+0,000	8.239.738,479	575.543,436
287+0,000	8.239.718,767	575.546,818
288+0,000	8.239.699,085	575.550,371
289+0,000	8.239.679,435	575.554,095
290+0,000	8.239.659,818	575.557,989
291+0,000	8.239.640,235	575.562,053
292+0,000	8.239.620,689	575.566,287
293+0,000	8.239.601,179	575.570,691
294+0,000	8.239.581,709	575.575,263
295+0,000	8.239.562,280	575.580,005
296+0,000	8.239.542,892	575.584,915
297+0,000	8.239.523,547	575.589,993
298+0,000	8.239.504,247	575.595,239
299+0,000	8.239.484,994	575.600,652
300+0,000	8.239.465,788	575.606,232
301+0,000	8.239.446,632	575.611,978
302+0,000	8.239.427,526	575.617,891
303+0,000	8.239.408,472	575.623,969
304+0,000	8.239.389,471	575.630,212
305+0,000	8.239.370,525	575.636,620
306+0,000	8.239.351,636	575.643,192
307+0,000	8.239.332,805	575.649,928
308+0,000	8.239.314,032	575.656,827
309+0,000	8.239.295,321	575.663,888
310+0,000	8.239.276,671	575.671,112
311+0,000	8.239.258,084	575.678,498
312+0,000	8.239.239,563	575.686,044
313+0,000	8.239.221,107	575.693,751
313+10,329 PT	8.239.211,602	575.697,794
314+0,000	8.239.202,712	575.701,599

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Estaca	Norte	Este
315+0,000	8.239.184,325	575.709,468
316+0,000	8.239.165,938	575.717,338
317+0,000	8.239.147,551	575.725,207
318+0,000	8.239.129,165	575.733,077
319+0,000	8.239.110,778	575.740,946
320+0,000	8.239.092,391	575.748,815
321+0,000	8.239.074,004	575.756,685
322+0,000	8.239.055,618	575.764,554
323+0,000	8.239.037,231	575.772,424
324+0,000	8.239.018,844	575.780,293
325+0,000	8.239.000,457	575.788,162
326+0,000	8.238.982,070	575.796,032
327+0,000	8.238.963,684	575.803,901
328+0,000	8.238.945,297	575.811,770
329+0,000	8.238.926,910	575.819,640
330+0,000	8.238.908,523	575.827,509
331+0,000	8.238.890,137	575.835,379
332+0,000	8.238.871,750	575.843,248
333+0,000	8.238.853,363	575.851,117
334+0,000	8.238.834,976	575.858,987
335+0,000	8.238.816,590	575.866,856
336+0,000	8.238.798,203	575.874,726
337+0,000	8.238.779,816	575.882,595
338+0,000	8.238.761,429	575.890,464
339+0,000	8.238.743,043	575.898,334
340+0,000	8.238.724,656	575.906,203
341+0,000	8.238.706,269	575.914,073
342+0,000	8.238.687,882	575.921,942
343+0,000	8.238.669,496	575.929,811
344+0,000	8.238.651,109	575.937,681
345+0,000	8.238.632,722	575.945,550
346+0,000	8.238.614,335	575.953,420
347+0,000	8.238.595,949	575.961,289
348+0,000	8.238.577,562	575.969,158
349+0,000	8.238.559,175	575.977,028
350+0,000	8.238.540,788	575.984,897
351+0,000	8.238.522,402	575.992,767
352+0,000	8.238.504,015	576.000,636
353+0,000	8.238.485,628	576.008,505
354+0,000	8.238.467,241	576.016,375
355+0,000	8.238.448,855	576.024,244
356+0,000	8.238.430,468	576.032,114
357+0,000	8.238.412,081	576.039,983
358+0,000	8.238.393,694	576.047,852
359+0,000	8.238.375,308	576.055,722
360+0,000	8.238.356,921	576.063,591
361+0,000	8.238.338,534	576.071,461
362+0,000	8.238.320,147	576.079,330

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Estaca	Norte	Este
363+0,000	8.238.301,761	576.087,199
364+0,000	8.238.283,374	576.095,069
365+0,000	8.238.264,987	576.102,938
366+0,000	8.238.246,600	576.110,808
367+0,000	8.238.228,214	576.118,677
368+0,000	8.238.209,827	576.126,546
369+0,000	8.238.191,440	576.134,416
370+0,000	8.238.173,053	576.142,285
371+0,000	8.238.154,667	576.150,154
372+0,000	8.238.136,280	576.158,024
373+0,000	8.238.117,893	576.165,893
374+0,000	8.238.099,506	576.173,763
375+0,000	8.238.081,120	576.181,632
376+0,000	8.238.062,733	576.189,501
377+0,000	8.238.044,346	576.197,371
378+0,000	8.238.025,959	576.205,240
379+0,000	8.238.007,573	576.213,110
380+0,000	8.237.989,186	576.220,979
381+0,000	8.237.970,799	576.228,848
382+0,000	8.237.952,412	576.236,718
383+0,000	8.237.934,026	576.244,587
384+0,000	8.237.915,639	576.252,457
385+0,000	8.237.897,252	576.260,326
386+0,000	8.237.878,865	576.268,195
387+0,000	8.237.860,479	576.276,065
388+0,000	8.237.842,092	576.283,934
389+0,000	8.237.823,705	576.291,804
390+0,000	8.237.805,318	576.299,673
390+19,314 TE	8.237.787,562	576.307,273
391+0,000	8.237.786,932	576.307,542
392+0,000	8.237.768,520	576.315,353
393+0,000	8.237.749,971	576.322,830
394+0,000	8.237.731,170	576.329,647
395+0,000	8.237.712,038	576.335,462
395+19,314 EC	8.237.693,220	576.339,795
396+0,000	8.237.692,546	576.339,921
397+0,000	8.237.672,750	576.342,722
398+0,000	8.237.652,785	576.343,793
398+14,692 CE	8.237.638,098	576.343,472
399+0,000	8.237.632,802	576.343,127
400+0,000	8.237.612,938	576.340,843
401+0,000	8.237.593,261	576.337,273
402+0,000	8.237.573,776	576.332,772
403+0,000	8.237.554,434	576.327,686
403+14,692 ET	8.237.540,272	576.323,772
404+0,000	8.237.535,158	576.322,351
405+0,000	8.237.515,889	576.316,994
406+0,000	8.237.496,620	576.311,637

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Estaca	Norte	Este
407+0,000	8.237.477,351	576.306,280
408+0,000	8.237.458,081	576.300,923
409+0,000	8.237.438,812	576.295,566
410+0,000	8.237.419,543	576.290,210
411+0,000	8.237.400,274	576.284,853
412+0,000	8.237.381,004	576.279,496
413+0,000	8.237.361,735	576.274,139
414+0,000	8.237.342,466	576.268,782
415+0,000	8.237.323,197	576.263,425
416+0,000	8.237.303,927	576.258,068
417+0,000	8.237.284,658	576.252,711
418+0,000	8.237.265,389	576.247,355
419+0,000	8.237.246,120	576.241,998
420+0,000	8.237.226,850	576.236,641
421+0,000	8.237.207,581	576.231,284
422+0,000	8.237.188,312	576.225,927
423+0,000	8.237.169,043	576.220,570
424+0,000	8.237.149,773	576.215,213
425+0,000	8.237.130,504	576.209,856
426+0,000	8.237.111,235	576.204,500
427+0,000	8.237.091,966	576.199,143
428+0,000	8.237.072,696	576.193,786
429+0,000	8.237.053,427	576.188,429
430+0,000	8.237.034,158	576.183,072
431+0,000	8.237.014,889	576.177,715
432+0,000	8.236.995,620	576.172,358
433+0,000	8.236.976,350	576.167,001
434+0,000	8.236.957,081	576.161,644
435+0,000	8.236.937,812	576.156,288
436+0,000	8.236.918,543	576.150,931
437+0,000	8.236.899,273	576.145,574
438+0,000	8.236.880,004	576.140,217
439+0,000	8.236.860,735	576.134,860
440+0,000	8.236.841,466	576.129,503
441+0,000	8.236.822,196	576.124,146
442+0,000	8.236.802,927	576.118,789
443+0,000	8.236.783,658	576.113,433
444+0,000	8.236.764,389	576.108,076
445+0,000	8.236.745,119	576.102,719
446+0,000	8.236.725,850	576.097,362
447+0,000	8.236.706,581	576.092,005
448+0,000	8.236.687,312	576.086,648
448+0,724 TE	8.236.686,614	576.086,454
449+0,000	8.236.668,052	576.081,258
450+0,000	8.236.648,852	576.075,657
451+0,000	8.236.629,784	576.069,626
452+0,000	8.236.610,931	576.062,953
453+0,000	8.236.592,401	576.055,434

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Estaca	Norte	Este
453+0,724 EC	8.236.591,738	576.055,143
454+0,000	8.236.574,313	576.046,907
455+0,000	8.236.556,741	576.037,361
456+0,000	8.236.539,743	576.026,827
456+8,468 CE	8.236.532,733	576.022,077
457+0,000	8.236.523,371	576.015,345
458+0,000	8.236.507,596	576.003,052
459+0,000	8.236.492,315	575.990,151
460+0,000	8.236.477,396	575.976,832
461+0,000	8.236.462,695	575.963,272
461+8,468 ET	8.236.456,500	575.957,499
462+0,000	8.236.448,065	575.949,635
463+0,000	8.236.433,437	575.935,996
464+0,000	8.236.418,809	575.922,357
465+0,000	8.236.404,181	575.908,718
466+0,000	8.236.389,553	575.895,079
467+0,000	8.236.374,925	575.881,440
468+0,000	8.236.360,297	575.867,801
469+0,000	8.236.345,669	575.854,162
470+0,000	8.236.331,041	575.840,523
471+0,000	8.236.316,413	575.826,884
472+0,000	8.236.301,785	575.813,245
473+0,000	8.236.287,157	575.799,606
474+0,000	8.236.272,529	575.785,967
475+0,000	8.236.257,901	575.772,328
476+0,000	8.236.243,273	575.758,689
477+0,000	8.236.228,645	575.745,050
478+0,000	8.236.214,017	575.731,411
479+0,000	8.236.199,389	575.717,772
480+0,000	8.236.184,761	575.704,133
481+0,000	8.236.170,133	575.690,494
482+0,000	8.236.155,505	575.676,855
483+0,000	8.236.140,877	575.663,216
484+0,000	8.236.126,249	575.649,577
485+0,000	8.236.111,621	575.635,938
486+0,000	8.236.096,993	575.622,300
487+0,000	8.236.082,365	575.608,661
488+0,000	8.236.067,737	575.595,022
489+0,000	8.236.053,109	575.581,383
490+0,000	8.236.038,481	575.567,744
491+0,000	8.236.023,853	575.554,105
492+0,000	8.236.009,225	575.540,466
493+0,000	8.235.994,597	575.526,827
494+0,000	8.235.979,969	575.513,188
495+0,000	8.235.965,341	575.499,549
496+0,000	8.235.950,713	575.485,910
497+0,000	8.235.936,085	575.472,271
498+0,000	8.235.921,457	575.458,632

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Estaca	Norte	Este
499+0,000	8.235.906,829	575.444,993
500+0,000	8.235.892,201	575.431,354
501+0,000	8.235.877,573	575.417,715
502+0,000	8.235.862,945	575.404,076
503+0,000	8.235.848,317	575.390,437
503+11,038 TE	8.235.840,244	575.382,910
504+0,000	8.235.833,686	575.376,801
505+0,000	8.235.818,965	575.363,263
506+0,000	8.235.803,974	575.350,025
507+0,000	8.235.788,539	575.337,308
508+0,000	8.235.772,512	575.325,349
508+11,038 EC	8.235.763,368	575.319,167
509+0,000	8.235.755,776	575.314,405
510+0,000	8.235.738,323	575.304,648
511+0,000	8.235.720,231	575.296,132
512+0,000	8.235.701,589	575.288,898
513+0,000	8.235.682,488	575.282,982
513+9,802 CE	8.235.672,987	575.280,573
514+0,000	8.235.663,023	575.278,407
515+0,000	8.235.643,308	575.275,055
516+0,000	8.235.623,453	575.272,666
517+0,000	8.235.603,526	575.270,969
518+0,000	8.235.583,567	575.269,687
518+9,802 ET	8.235.573,781	575.269,126
519+0,000	8.235.563,599	575.268,548
520+0,000	8.235.543,632	575.267,414
521+0,000	8.235.523,664	575.266,280
522+0,000	8.235.503,696	575.265,146
523+0,000	8.235.483,728	575.264,012
524+0,000	8.235.463,760	575.262,878
525+0,000	8.235.443,792	575.261,744
526+0,000	8.235.423,825	575.260,610
527+0,000	8.235.403,857	575.259,476
528+0,000	8.235.383,889	575.258,342
529+0,000	8.235.363,921	575.257,208
530+0,000	8.235.343,953	575.256,074
531+0,000	8.235.323,985	575.254,940
531+16,600 TE	8.235.307,413	575.253,999
532+0,000	8.235.304,018	575.253,806
533+0,000	8.235.284,044	575.252,788
534+0,000	8.235.264,051	575.252,278
535+0,000	8.235.244,059	575.252,711
535+16,600 EC	8.235.227,520	575.254,097
536+0,000	8.235.224,146	575.254,520
537+0,000	8.235.204,459	575.258,009
537+15,961 CE	8.235.189,012	575.262,014
538+0,000	8.235.185,150	575.263,195
539+0,000	8.235.166,320	575.269,922

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Estaca	Norte	Este
540+0,000	8.235.147,931	575.277,782
541+0,000	8.235.129,862	575.286,355
541+15,961 ET	8.235.115,559	575.293,440
542+0,000	8.235.111,945	575.295,241
543+0,000	8.235.094,044	575.304,160
544+0,000	8.235.076,142	575.313,079
545+0,000	8.235.058,241	575.321,998
546+0,000	8.235.040,340	575.330,917
547+0,000	8.235.022,439	575.339,836
548+0,000	8.235.004,538	575.348,755
549+0,000	8.234.986,637	575.357,674
550+0,000	8.234.968,736	575.366,593
551+0,000	8.234.950,834	575.375,512
552+0,000	8.234.932,933	575.384,431
553+0,000	8.234.915,032	575.393,350
554+0,000	8.234.897,131	575.402,269
554+15,666 TE	8.234.883,109	575.409,255
555+0,000	8.234.879,230	575.411,188
556+0,000	8.234.861,308	575.420,065
557+0,000	8.234.843,303	575.428,773
558+0,000	8.234.825,152	575.437,170
559+0,000	8.234.806,797	575.445,111
560+0,000	8.234.788,192	575.452,447
560+15,666 EC	8.234.773,423	575.457,671
561+0,000	8.234.769,306	575.459,024
562+0,000	8.234.750,138	575.464,727
563+0,000	8.234.730,726	575.469,532
564+0,000	8.234.711,111	575.473,428
565+0,000	8.234.691,336	575.476,406
566+0,000	8.234.671,443	575.478,461
566+3,817 CE	8.234.667,637	575.478,748
567+0,000	8.234.651,477	575.479,602
568+0,000	8.234.631,481	575.479,938
569+0,000	8.234.611,485	575.479,623
570+0,000	8.234.591,501	575.478,814
571+0,000	8.234.571,534	575.477,665
572+0,000	8.234.551,579	575.476,331
572+3,817 ET	8.234.547,771	575.476,069
573+0,000	8.234.531,626	575.474,955
574+0,000	8.234.511,674	575.473,578
575+0,000	8.234.491,721	575.472,201
576+0,000	8.234.471,769	575.470,824
577+0,000	8.234.451,816	575.469,447
578+0,000	8.234.431,864	575.468,070
579+0,000	8.234.411,911	575.466,693
580+0,000	8.234.391,959	575.465,316
581+0,000	8.234.372,006	575.463,939
582+0,000	8.234.352,054	575.462,562

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Estaca	Norte	Este
583+0,000	8.234.332,101	575.461,185
584+0,000	8.234.312,148	575.459,808
585+0,000	8.234.292,196	575.458,431
586+0,000	8.234.272,243	575.457,054
587+0,000	8.234.252,291	575.455,677
588+0,000	8.234.232,338	575.454,300
589+0,000	8.234.212,386	575.452,923
590+0,000	8.234.192,433	575.451,546
591+0,000	8.234.172,481	575.450,169
592+0,000	8.234.152,528	575.448,792
593+0,000	8.234.132,576	575.447,415
594+0,000	8.234.112,623	575.446,038
595+0,000	8.234.092,671	575.444,661
596+0,000	8.234.072,718	575.443,284
597+0,000	8.234.052,765	575.441,907
598+0,000	8.234.032,813	575.440,530
599+0,000	8.234.012,860	575.439,153
600+0,000	8.233.992,908	575.437,776
601+0,000	8.233.972,955	575.436,399
602+0,000	8.233.953,003	575.435,022
603+0,000	8.233.933,050	575.433,645
604+0,000	8.233.913,098	575.432,268
605+0,000	8.233.893,145	575.430,891
606+0,000	8.233.873,193	575.429,514
607+0,000	8.233.853,240	575.428,137
607+6,022 TE	8.233.847,232	575.427,722
608+0,000	8.233.833,288	575.426,751
609+0,000	8.233.813,345	575.425,247
610+0,000	8.233.793,425	575.423,461
611+0,000	8.233.773,551	575.421,228
612+0,000	8.233.753,755	575.418,382
613+0,000	8.233.734,087	575.414,763
613+6,022 EC	8.233.728,199	575.413,498
614+0,000	8.233.714,611	575.410,223
615+0,000	8.233.695,387	575.404,716
615+16,854 CE	8.233.679,416	575.399,332
616+0,000	8.233.676,462	575.398,253
617+0,000	8.233.657,867	575.390,892
618+0,000	8.233.639,585	575.382,786
619+0,000	8.233.621,571	575.374,098
620+0,000	8.233.603,768	575.364,986
621+0,000	8.233.586,107	575.355,600
621+16,854 ET	8.233.571,278	575.347,589
622+0,000	8.233.568,513	575.346,091
623+0,000	8.233.550,926	575.336,567
624+0,000	8.233.533,339	575.327,043
625+0,000	8.233.515,752	575.317,519
626+0,000	8.233.498,166	575.307,995

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Estaca	Norte	Este
627+0,000	8.233.480,579	575.298,471
628+0,000	8.233.462,992	575.288,947
628+9,562 TE	8.233.454,584	575.284,394
629+0,000	8.233.445,407	575.279,420
630+0,000	8.233.427,862	575.269,819
631+0,000	8.233.410,432	575.260,012
632+0,000	8.233.393,197	575.249,865
633+0,000	8.233.376,247	575.239,252
634+0,000	8.233.359,679	575.228,051
634+9,562 EC	8.233.351,926	575.222,455
635+0,000	8.233.343,605	575.216,153
636+0,000	8.233.328,100	575.203,523
636+5,378 CE	8.233.324,033	575.200,005
637+0,000	8.233.313,193	575.190,192
638+0,000	8.233.298,843	575.176,263
639+0,000	8.233.284,961	575.161,866
640+0,000	8.233.271,449	575.147,121
641+0,000	8.233.258,199	575.132,140
642+0,000	8.233.245,096	575.117,030
642+5,378 ET	8.233.241,584	575.112,958
643+0,000	8.233.232,033	575.101,885
644+0,000	8.233.218,970	575.086,741
645+0,000	8.233.205,908	575.071,596
646+0,000	8.233.192,845	575.056,451
646+17,787 TE	8.233.181,227	575.042,982
647+0,000	8.233.179,782	575.041,307
648+0,000	8.233.166,702	575.026,177
649+0,000	8.233.153,538	575.011,120
650+0,000	8.233.140,217	574.996,202
651+0,000	8.233.126,665	574.981,493
652+0,000	8.233.112,816	574.967,065
653+0,000	8.233.098,603	574.952,995
653+17,787 EC	8.233.085,609	574.940,849
654+0,000	8.233.083,968	574.939,365
655+0,000	8.233.068,873	574.926,245
656+0,000	8.233.053,330	574.913,661
657+0,000	8.233.037,358	574.901,626
658+0,000	8.233.020,974	574.890,157
659+0,000	8.233.004,200	574.879,267
660+0,000	8.232.987,057	574.868,969
661+0,000	8.232.969,564	574.859,275
662+0,000	8.232.951,743	574.850,199
662+13,142 CE	8.232.939,865	574.844,576
663+0,000	8.232.933,617	574.841,749
664+0,000	8.232.915,222	574.833,902
665+0,000	8.232.896,612	574.826,576
666+0,000	8.232.877,837	574.819,685
667+0,000	8.232.858,939	574.813,138

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Estaca	Norte	Este
668+0,000	8.232.839,957	574.806,841
669+0,000	8.232.820,922	574.800,702
669+13,142 ET	8.232.808,402	574.796,707
670+0,000	8.232.801,868	574.794,625
671+0,000	8.232.782,812	574.788,553
672+0,000	8.232.763,756	574.782,481
673+0,000	8.232.744,700	574.776,410
674+0,000	8.232.725,643	574.770,338
675+0,000	8.232.706,587	574.764,266
676+0,000	8.232.687,531	574.758,194
677+0,000	8.232.668,475	574.752,122
678+0,000	8.232.649,419	574.746,050
679+0,000	8.232.630,363	574.739,978
680+0,000	8.232.611,307	574.733,906
681+0,000	8.232.592,251	574.727,835
682+0,000	8.232.573,195	574.721,763
683+0,000	8.232.554,139	574.715,691
684+0,000	8.232.535,083	574.709,619
685+0,000	8.232.516,027	574.703,547
686+0,000	8.232.496,971	574.697,475
686+4,707 PC	8.232.492,486	574.696,046
687+0,000	8.232.477,935	574.691,342
688+0,000	8.232.458,966	574.685,004
689+0,000	8.232.440,068	574.678,457
690+0,000	8.232.421,243	574.671,702
691+0,000	8.232.402,495	574.664,739
692+0,000	8.232.383,824	574.657,569
693+0,000	8.232.365,234	574.650,193
694+0,000	8.232.346,726	574.642,612
695+0,000	8.232.328,304	574.634,827
696+0,000	8.232.309,969	574.626,839
697+0,000	8.232.291,723	574.618,649
698+0,000	8.232.273,568	574.610,257
699+0,000	8.232.255,508	574.601,666
700+0,000	8.232.237,543	574.592,875
701+0,000	8.232.219,677	574.583,886
702+0,000	8.232.201,912	574.574,701
703+0,000	8.232.184,249	574.565,319
703+1,848 PT	8.232.182,622	574.564,442
704+0,000	8.232.166,647	574.555,823
705+0,000	8.232.149,046	574.546,326
706+0,000	8.232.131,444	574.536,829
707+0,000	8.232.113,843	574.527,332
707+18,126 PC	8.232.097,891	574.518,725
708+0,000	8.232.096,241	574.517,835
709+0,000	8.232.078,604	574.508,405
710+0,000	8.232.060,907	574.499,088
711+0,000	8.232.043,150	574.489,885

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Estaca	Norte	Este
712+0,000	8.232.025,335	574.480,795
713+0,000	8.232.007,462	574.471,819
714+0,000	8.231.989,533	574.462,958
715+0,000	8.231.971,546	574.454,212
716+0,000	8.231.953,504	574.445,582
717+0,000	8.231.935,408	574.437,066
718+0,000	8.231.917,257	574.428,667
719+0,000	8.231.899,053	574.420,384
720+0,000	8.231.880,796	574.412,218
721+0,000	8.231.862,487	574.404,169
722+0,000	8.231.844,127	574.396,237
723+0,000	8.231.825,717	574.388,423
724+0,000	8.231.807,257	574.380,727
725+0,000	8.231.788,748	574.373,149
726+0,000	8.231.770,192	574.365,689
727+0,000	8.231.751,587	574.358,349
728+0,000	8.231.732,937	574.351,128
729+0,000	8.231.714,240	574.344,026
730+0,000	8.231.695,498	574.337,044
731+0,000	8.231.676,712	574.330,182
732+0,000	8.231.657,883	574.323,441
733+0,000	8.231.639,010	574.316,820
734+0,000	8.231.620,096	574.310,320
735+0,000	8.231.601,141	574.303,941
736+0,000	8.231.582,145	574.297,684
736+1,536 PT	8.231.580,684	574.297,208
737+0,000	8.231.563,126	574.291,496
738+0,000	8.231.544,107	574.285,309
739+0,000	8.231.525,088	574.279,122
740+0,000	8.231.506,069	574.272,935
740+13,031	8.231.493,677	574.268,903

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6. TERMO DE ENCERRAMENTO



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O presente volume correspondente ao Volume 3C – Cálculo de volumes e nota de serviço de terraplenagem referente ao Projeto Executivo de Implantação e Pavimentação da MT-351; Trecho: Entr. MT-451 - Entr. MT-452(B), Subtrecho: Fazenda Tanque Fundo - Entr. MT-452(B), com extensão de 14,81 km e possui 88 (oitenta e oito) páginas numericamente ordenadas.

JONNY WILLIAN
JESUS
ROCHA:00537542
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por JONNY WILLIAN JESUS
ROCHA:00537542124
Dados: 2026.03.04 10:54:55
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Jonny Willian J. Rocha
Engenheiro Civil
CREA – 120823434-0

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04/03/2026, JONNY WILLIAN JESUS ROCHA em 04/03/2026. Juntado em 11/03/2026 11:09:35 por AMANDA ARAUJO.

