GOVERNO DO ESTADO DO PARANÁ

SECRETARIA DE ESTADO DE INFRAESTRUTURA E LOGÍSTICA

DEPARTAMENTO DE ESTRADAS DE RODAGEM - DER

PROJETO EXECUTIVO:
IMPLANTAÇÃO DE DUPLICAÇÃO DA BR-277 DO KM 574+470 AO KM 580+280 E IMPLANTAÇÃO DE MARGINAL ESQUERDA DO KM 581+740 AO KM 583+300
TRECHOS DE CASCAVEL

RODOVIA:	BR-277/PR
MUNICÍPIO:	Cascavel
TRECHO:	Acesso São João do Oeste – Entr. BR-369/467 (Cascavel)
SEGMENTO:	km 574+470m a km 580+280m e km 581+740m a km 583+300m
CÓD. SNV:	277BPR0295 e 277BPR00300
EXTENSÃO:	5,81 km (duplicação) + 1,56 km (marginal esquerda)
LOTE:	06

PROJETO EXECUTIVO

VOLUME 3C

NOTAS DE SERVIÇO E

MEMÓRIA DE CÁLCULO DE VOLUMES DE TERRAPLENAGEM

MARÇO/2020

PARANÁ
GOVERNO DO ESTADO

DER PARANÁ

ZOCCO
ENGENHARIA E PROJETOS

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APRESENTAÇÃO

A empresa LL Zocco Projetos SS, apresenta ao Poder Concedente e demais órgãos regulamentadores, o Volume 3C – Notas de Serviço e Memória de Cálculo de Volumes de Terraplenagem, referente à implantação da duplicação da BR-277/PR entre os km 574+470m e km 580+280m e à implantação da marginal esquerda entre os km 581+740m ao km 583+300m, no município de Cascavel.

O presente projeto é constituído pelos seguintes volumes:

Volume 1:	**Relatório do Projeto**
Volume 2:	Projeto de Execução
Volume 3:	Memória Justificativa
Volume 3A:	Estudos Geotécnicos
Volume 3B:	Projeto de Desapropriação
Volume 3C:	Notas de Serviço e Memória de Cálculo de Volumes de Terraplenagem
Volume 3D:	Memória de Cálculo de Estruturas
Volume 4:	Orçamento

O conteúdo de cada volume é descrito a seguir:

Volume 1 – Relatório do Projeto

Este volume reúne, de forma compatibilizada, as informações presentes nos relatórios que descrevem sucintamente os conteúdos dos Volumes 2 a 4 do Projeto de Duplicação entre o km 574+470m ao km 580+280m e implantação da marginal esquerda entre o km 581+740m ao km 583+300m da Rodovia BR-277/PR em Cascavel. Contém também a declaração de responsabilidade dos profissionais e respectivas ARTs — Anotação de Responsabilidade Técnica. Inclui as quantidades dos serviços, informações para a elaboração do Plano de Execução da Obra e as especificações pertinentes aos serviços a serem executados. É apresentado em tamanho A4.

Volume 2 – Projeto de Execução

Este volume contém os desenhos compatibilizados que compõem o Projeto Executivo de Duplicação da BR-277 e implantação da marginal esquerda. É apresentado em tamanho A3 e A1.

Volume 3 – Memória Justificativa

Este volume reúne, de forma compatibilizada as informações que definem as soluções adotadas para o Projeto de Duplicação entre o km 574+470m ao km 580+280m e implantação da marginal esquerda entre o km 581+740m ao km 583+300m da Rodovia BR-277/PR em Cascavel. Este volume reúne as

informações que definem, por meio de memoriais descritivos e justificativos, as soluções adotadas, métodos utilizados, especificações técnicas, descrevendo os estudos realizados e os itens de projeto elaborados. É apresentado em tamanho A4.

Volume 3A – Estudos Geotécnicos

Este volume contém os estudos unificados e investigações geológico geotécnicas realizados pelas empresas responsáveis pelos projetos do km 574+470m ao km 580+280m e km 581+740m ao km 583+300m da Rodovia BR-277/PR, de campo e de laboratório, que permitiram definir as fundações das Obras-de-Arte Especiais e Contenções. É apresentado em tamanho A4.

Volume 3B – Projeto de Desapropriação

Este volume contém o cadastro individual dos imóveis a serem desapropriados necessários à constituição da faixa de domínio do projeto de duplicação do km 574+470m ao km 580+280m da Rodovia BR-277/PR. Os cadastros individuas possuem a caracterização das áreas e benfeitorias, os valores estabelecidos para estas desapropriações, bem como as plantas individuais de propriedade.

Volume 3C – Notas de Serviço e Memória de Cálculo de Volumes de Terraplenagem

Este volume apresenta os pontos notáveis dos alinhamentos compatibilizados dos km 574+470m ao km 580+280m e dos km 581+740m ao km 583+300m da Rodovia BR-277/PR, as coordenadas das estacas, as notas de serviço de terraplenagem e pavimentação e, ainda, os cálculos de volumes de terraplenagem para possibilitar a execução completa da obra de terraplenagem e pavimentação para implantação do corpo estradal.

Volume 3D – Memória de Cálculo de Estruturas

Este volume contém os cálculos estruturais para as obras-de-arte especiais e contenções. É apresentada a solução adotada nos projetos originais realizados pela ARUP e UNIDEC e demais características, como software utilizado. É apresentado em tamanho A4.

Volume 4 – Orçamento da Obra

Este volume apresenta o orçamento para execução das obras, com o resumo dos preços, as planilhas orçamentárias com o demonstrativo do orçamento e as composições de preços unitários, elaboradas com base na metodologia do SICRO 2 vigente no Departamento Nacional de Infraestrutura de Transportes – DNIT e Departamento de Estradas e Rodagem do Paraná – DER/PR. É apresentado em tamanho A4.

MAPA DE SITUAÇÃO

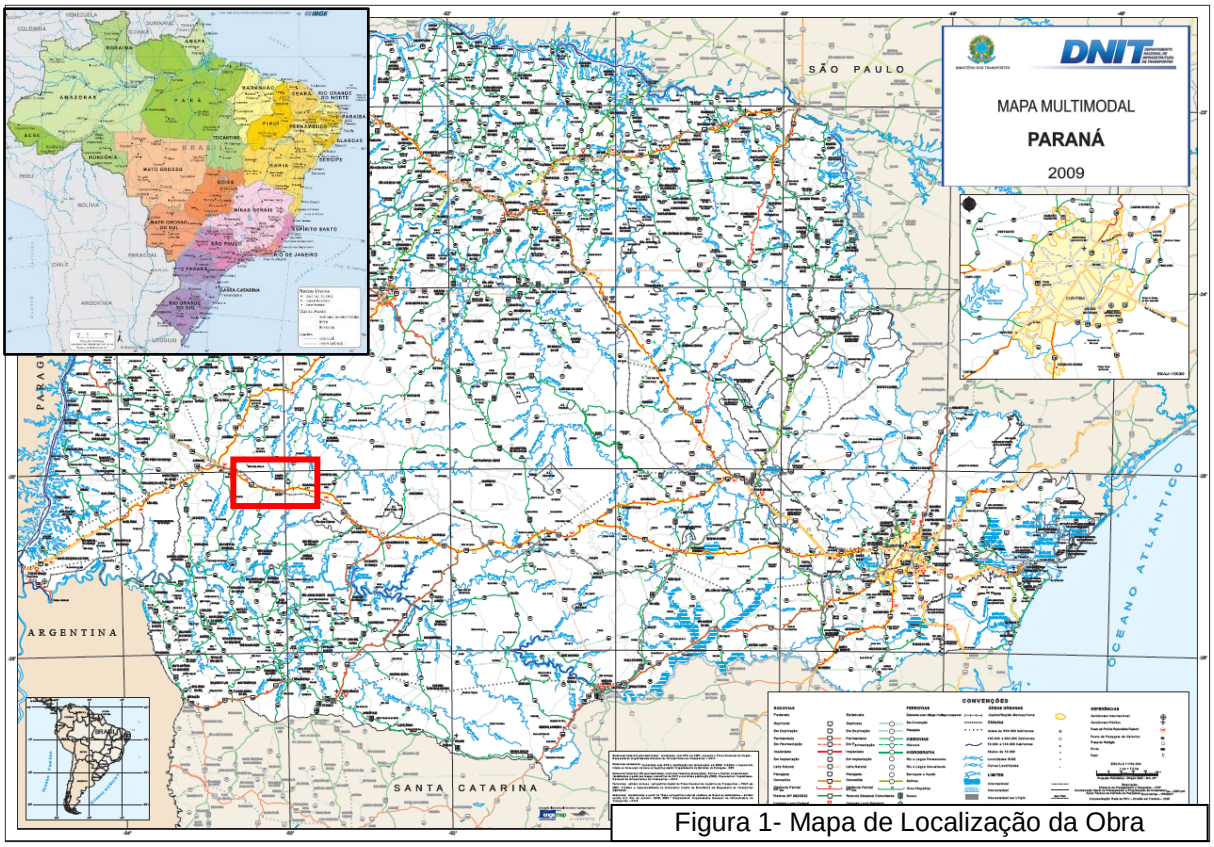


Figura 1- Mapa de Localização da Obra

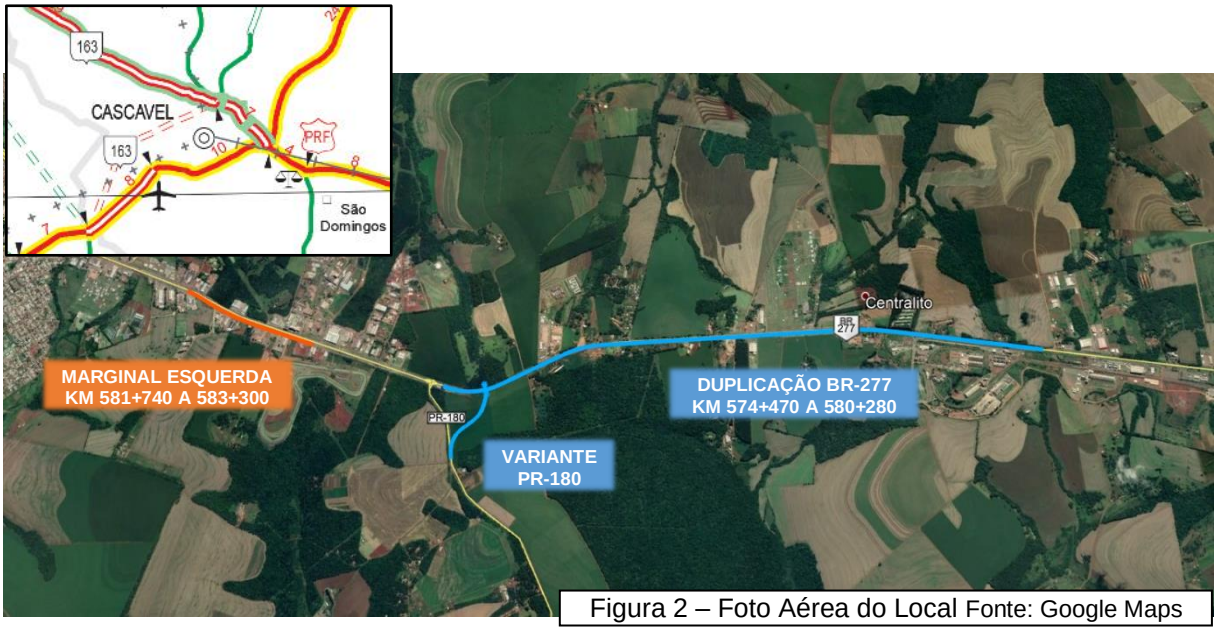


Figura 2 – Foto Aérea do Local Fonte: Google Maps

Rodovia: BR-277/PR **Município:** Cascavel - PR **Trecho:** Acesso São João do Oeste – Entr. BR-369/467 (Cascavel) **Segmentos:** km 574+470 a 580+280 (duplicação) km 583+300 a 581+740 (marginal esquerda)	**MAPA DE SITUAÇÃO**

1. NOTAS DE SERVIÇO DE TERRAPLENAGEM

Neste volume são apresentados os elementos necessários e suficientes para execução completa da obra de terraplenagem e pavimentação, através das notas de serviços e volumes de movimentação de terra para as áreas onde serão implantadas a duplicação da BR-277/PR entre os km 574+470m e km 580+280m e a marginal esquerda entre os km 581+740m ao km 583+300m. Estes trechos estão inseridos no município de Cascavel, no estado do Paraná.

Sugere-se que após a execução da terraplenagem e em função das cotas reais encontradas, após liberação da Fiscalização, dos serviços de regularização do subleito, calcular-se e emitir-se uma nota de serviço de pavimentação por camada.

1.1 Generalidades

O projeto de terraplenagem e pavimentação apresenta-se como decorrência dos Estudos de Tráfego, Geológicos e Geotécnicos e do Projeto Geométrico os quais possibilitaram o conhecimento das características dos solos movimentados, dos tráfegos atuantes e os elementos necessários à quantificação dos volumes para implantação do corpo estradal.

A terraplenagem envolve o conjunto de operações de escavação, carga, transporte, descarga, compactação e acabamento executados a fim de passar-se de um terreno em seu estado natural para uma nova conformação topográfica desejada.

O projeto de pavimentação visa definir e detalhar a estrutura do pavimento rodoviário, capaz de suportar economicamente a repetição de eixos, em condições de segurança e conforto, para o período previsto.

A seguir são descritos os quadros de locação, com coordenadas no plano horizontal, vertical, curvas horizontais, verticais, os pontos notáveis dos eixos do projeto e as Notas de Serviço necessários para execução de acordo com o projeto apresentado no Volume 2: Projeto de Execução.

1.2 Quadros de Locação

Apresentam-se a seguir os quadros de locação dos alinhamentos horizontais e curvas horizontais e verticais para cada alinhamento de projeto e a relação das coordenadas das estacas para locação das obras.

1.2.1 Estaqueamento horizontal e cotas verticais

Tabela 1 – Quadro de locação alinhamento 2000 – Marginal esquerda

Alinhamento: MARGINAL ESQUERDA (LESTE)			
Estaca	**Norte**	**Este**	**Cota**
2027+0,000	7.236.225,372	257.991,719	774,165
2028+0,000	7.236.215,075	258.008,864	774,467
2029+0,000	7.236.204,777	258.026,010	774,769
2030+0,000	7.236.194,480	258.043,156	775,071
2031+0,000	7.236.184,183	258.060,301	775,373
2032+0,000	7.236.173,886	258.077,447	775,602
2033+0,000	7.236.163,589	258.094,592	775,704
2034+0,000	7.236.153,292	258.111,738	775,802
2035+0,000	7.236.142,995	258.128,884	775,824
2036+0,000	7.236.132,698	258.146,029	775,737
2037+0,000	7.236.122,401	258.163,175	775,538
2038+0,000	7.236.112,104	258.180,320	775,229
2038+4,747 PC	7.236.109,660	258.184,389	775,140
2039+0,000	7.236.101,683	258.197,390	774,812
2040+0,000	7.236.090,850	258.214,202	774,360
2041+0,000	7.236.079,601	258.230,737	773,907
2042+0,000	7.236.067,941	258.246,987	773,455
2043+0,000	7.236.055,879	258.262,939	773,002
2044+0,000	7.236.043,422	258.278,585	772,550
2045+0,000	7.236.030,578	258.293,915	772,097
2045+9,237 PT	7.236.024,517	258.300,886	771,888
2046+0,000	7.236.017,409	258.308,967	771,637
2047+0,000	7.236.004,199	258.323,984	770,925
2048+0,000	7.235.990,990	258.339,001	769,849
2049+0,000	7.235.977,780	258.354,018	768,932
2050+0,000	7.235.964,571	258.369,035	768,573
2051+0,000	7.235.951,361	258.384,052	768,770
2051+10,443 PC	7.235.944,464	258.391,893	769,094
2052+0,000	7.235.938,166	258.399,082	769,524
2053+0,000	7.235.925,080	258.414,206	770,557
2054+0,000	7.235.912,120	258.429,439	771,589
2055+0,000	7.235.899,287	258.444,779	772,622
2056+0,000	7.235.886,582	258.460,225	773,654
2057+0,000	7.235.874,007	258.475,777	774,687
2058+0,000	7.235.861,562	258.491,433	775,696
2059+0,000	7.235.849,248	258.507,193	776,625
2060+0,000	7.235.837,065	258.523,054	777,471
2061+0,000	7.235.825,015	258.539,016	778,235

Alinhamento: MARGINAL ESQUERDA (LESTE)			
Estaca	**Norte**	**Este**	**Cota**
2062+0,000	7.235.813,098	258.555,078	778,916
2063+0,000	7.235.801,316	258.571,239	779,514
2064+0,000	7.235.789,669	258.587,498	780,068
2065+0,000	7.235.778,158	258.603,853	780,562
2066+0,000	7.235.766,783	258.620,303	780,974
2067+0,000	7.235.755,546	258.636,848	781,302
2068+0,000	7.235.744,447	258.653,486	781,548
2069+0,000	7.235.733,487	258.670,215	781,710
2070+0,000	7.235.722,667	258.687,036	781,813
2071+0,000	7.235.711,988	258.703,945	781,914
2072+0,000	7.235.701,449	258.720,944	782,014
2073+0,000	7.235.691,053	258.738,029	782,114
2074+0,000	7.235.680,800	258.755,201	782,214
2075+0,000	7.235.670,690	258.772,457	782,315
2076+0,000	7.235.660,724	258.789,797	782,415
2077+0,000	7.235.650,903	258.807,220	782,515
2077+0,082 PT	7.235.650,863	258.807,291	782,516
2078+0,000	7.235.641,155	258.824,684	782,594
2079+0,000	7.235.631,407	258.842,147	782,631
2080+0,000	7.235.621,659	258.859,611	782,625
2081+0,000	7.235.611,911	258.877,075	782,577
2082+0,000	7.235.602,164	258.894,538	782,487
2083+0,000	7.235.592,416	258.912,002	782,354
2084+0,000	7.235.582,668	258.929,466	782,184
2085+0,000	7.235.572,920	258.946,930	782,009
2086+0,000	7.235.563,173	258.964,393	781,834
2087+0,000	7.235.553,425	258.981,857	781,659
2088+0,000	7.235.543,677	258.999,321	781,483
2089+0,000	7.235.533,929	259.016,784	781,294
2090+0,000	7.235.524,181	259.034,248	781,060
2091+0,000	7.235.514,434	259.051,712	780,780
2092+0,000	7.235.504,686	259.069,175	780,454
2093+0,000	7.235.494,938	259.086,639	780,082
2094+0,000	7.235.485,190	259.104,103	779,663
2095+0,000	7.235.475,442	259.121,566	779,205
2096+0,000	7.235.465,695	259.139,030	778,742
2097+0,000	7.235.455,947	259.156,494	778,279
2098+0,000	7.235.446,199	259.173,958	777,815
2099+0,000	7.235.436,451	259.191,421	777,352
2100+0,000	7.235.426,703	259.208,885	776,889
2101+0,000	7.235.416,956	259.226,349	776,425
2102+0,000	7.235.407,208	259.243,812	775,962
2103+0,000	7.235.397,460	259.261,276	775,499
2104+0,000	7.235.387,712	259.278,740	775,035
2105+0,000	7.235.377,965	259.296,203	774,572
2106+0,000	7.235.368,217	259.313,667	774,109
2107+0,000	7.235.358,469	259.331,131	773,645
2108+0,000	7.235.348,721	259.348,595	773,182
2109+0,000	7.235.338,973	259.366,058	772,706
2110+0,000	7.235.329,226	259.383,522	772,097
2111+0,000	7.235.319,478	259.400,986	771,321
2112+0,000	7.235.309,730	259.418,449	770,378

Alinhamento: MARGINAL ESQUERDA (LESTE)			
Estaca	**Norte**	**Este**	**Cota**
2113+0,000	7.235.299,982	259.435,913	769,281
2114+0,000	7.235.290,234	259.453,377	768,153
2115+0,000	7.235.280,487	259.470,840	767,024

Tabela 2 – Quadro de locação alinhamento RODOVIA BR-277 – PISTA DIREITA

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA DIREITA			
Estaca	**Norte**	**Este**	**Cota**
28723+10,000	7.234.005,213	266.251,998	
28724+0,000	7.234.008,223	266.242,462	
28725+0,000	7.234.014,242	266.223,389	799,031
28725+11,270 PC	7.234.017,635	266.212,642	799,109
28726+0,000	7.234.020,280	266.204,322	799,164
28727+0,000	7.234.026,479	266.185,307	799,257
28728+0,000	7.234.032,867	266.166,355	799,304
28729+0,000	7.234.039,444	266.147,467	799,306
28730+0,000	7.234.046,210	266.128,647	799,263
28731+0,000	7.234.053,163	266.109,894	799,173
28732+0,000	7.234.060,304	266.091,213	799,039
28732+5,532 PT	7.234.062,312	266.086,058	798,993
28732+5,535 PC	7.234.062,313	266.086,056	798,993
28733+0,000	7.234.067,534	266.072,565	798,858
28734+0,000	7.234.074,591	266.053,852	798,638
28735+0,000	7.234.081,461	266.035,069	798,412
28736+0,000	7.234.088,142	266.016,218	798,186
28737+0,000	7.234.094,635	265.997,301	797,960
28738+0,000	7.234.100,938	265.978,321	797,731
28738+19,797 PT	7.234.106,991	265.959,471	797,482
28739+0,000	7.234.107,052	265.959,278	797,479
28740+0,000	7.234.113,071	265.940,205	797,202
28741+0,000	7.234.119,091	265.921,133	796,899
28742+0,000	7.234.125,111	265.902,060	796,570
28743+0,000	7.234.131,131	265.882,988	796,215
28744+0,000	7.234.137,151	265.863,915	795,834
28745+0,000	7.234.143,171	265.844,843	795,428
28746+0,000	7.234.149,190	265.825,770	794,999
28747+0,000	7.234.155,210	265.806,698	794,567
28748+0,000	7.234.161,230	265.787,625	794,135
28749+0,000	7.234.167,250	265.768,553	793,749
28750+0,000	7.234.173,270	265.749,480	793,455
28751+0,000	7.234.179,290	265.730,408	793,254
28752+0,000	7.234.185,309	265.711,335	793,137
28753+0,000	7.234.191,329	265.692,262	793,037
28754+0,000	7.234.197,349	265.673,190	792,937
28755+0,000	7.234.203,369	265.654,117	792,837
28756+0,000	7.234.209,389	265.635,045	792,737
28757+0,000	7.234.215,409	265.615,972	792,637
28758+0,000	7.234.221,428	265.596,900	792,537
28759+0,000	7.234.227,448	265.577,827	792,437
28760+0,000	7.234.233,468	265.558,755	792,337
28761+0,000	7.234.239,488	265.539,682	792,237

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA DIREITA			
Estaca	Norte	Este	Cota
28762+0,000	7.234.245,508	265.520,610	792,137
28763+0,000	7.234.251,528	265.501,537	792,048
28764+0,000	7.234.257,547	265.482,465	792,029
28765+0,000	7.234.263,567	265.463,392	792,093
28766+0,000	7.234.269,587	265.444,319	792,238
28767+0,000	7.234.275,607	265.425,247	792,466
28768+0,000	7.234.281,627	265.406,174	792,764
28769+0,000	7.234.287,647	265.387,102	793,073
28770+0,000	7.234.293,666	265.368,029	793,382
28771+0,000	7.234.299,686	265.348,957	793,691
28772+0,000	7.234.305,706	265.329,884	794,0
28773+0,000	7.234.311,726	265.310,812	794,274
28774+0,000	7.234.317,746	265.291,739	794,476
28775+0,000	7.234.323,766	265.272,667	794,607
28776+0,000	7.234.329,785	265.253,594	794,667
28777+0,000	7.234.335,805	265.234,522	794,655
28778+0,000	7.234.341,825	265.215,449	794,573
28779+0,000	7.234.347,845	265.196,377	794,419
28780+0,000	7.234.353,865	265.177,304	794,194
28781+0,000	7.234.359,885	265.158,231	793,933
28782+0,000	7.234.365,904	265.139,159	793,672
28783+0,000	7.234.371,924	265.120,086	793,411
28784+0,000	7.234.377,944	265.101,014	793,151
28785+0,000	7.234.383,964	265.081,941	792,890
28786+0,000	7.234.389,984	265.062,869	792,629
28787+0,000	7.234.396,004	265.043,796	792,369
28788+0,000	7.234.402,023	265.024,724	792,108
28789+0,000	7.234.408,043	265.005,651	791,847
28790+0,000	7.234.414,063	264.986,579	791,587
28791+0,000	7.234.420,083	264.967,506	791,326
28792+0,000	7.234.426,103	264.948,434	791,065
28793+0,000	7.234.432,123	264.929,361	790,805
28794+0,000	7.234.438,142	264.910,288	790,544
28795+0,000	7.234.444,162	264.891,216	790,283
28796+0,000	7.234.450,182	264.872,143	790,022
28797+0,000	7.234.456,202	264.853,071	789,762
28798+0,000	7.234.462,222	264.833,998	789,501
28799+0,000	7.234.468,242	264.814,926	789,240
28800+0,000	7.234.474,261	264.795,853	788,980
28801+0,000	7.234.480,281	264.776,781	788,719
28802+0,000	7.234.486,301	264.757,708	788,458
28803+0,000	7.234.492,321	264.738,636	788,198
28804+0,000	7.234.498,341	264.719,563	787,938
28805+0,000	7.234.504,361	264.700,491	787,691
28806+0,000	7.234.510,380	264.681,418	787,457
28807+0,000	7.234.516,400	264.662,346	787,235
28808+0,000	7.234.522,420	264.643,273	787,015
28808+7,634 PC	7.234.524,718	264.635,993	786,931
28809+0,000	7.234.528,411	264.624,191	786,795
28810+0,000	7.234.534,260	264.605,066	786,574
28811+0,000	7.234.539,956	264.585,894	786,354
28812+0,000	7.234.545,498	264.566,677	786,133

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA DIREITA			
Estaca	Norte	Este	Cota
28813+0,000	7.234.550,886	264.547,417	785,913
28814+0,000	7.234.556,120	264.528,114	785,693
28815+0,000	7.234.561,199	264.508,770	785,472
28816+0,000	7.234.566,124	264.489,386	785,252
28817+0,000	7.234.570,893	264.469,963	785,031
28818+0,000	7.234.575,507	264.450,502	784,811
28819+0,000	7.234.579,965	264.431,005	784,591
28820+0,000	7.234.584,267	264.411,473	784,370
28821+0,000	7.234.588,412	264.391,908	784,150
28822+0,000	7.234.592,401	264.372,310	783,924
28823+0,000	7.234.596,233	264.352,680	783,660
28824+0,000	7.234.599,908	264.333,021	783,354
28825+0,000	7.234.603,425	264.313,333	783,004
28826+0,000	7.234.606,785	264.293,617	782,611
28827+0,000	7.234.609,987	264.273,875	782,174
28828+0,000	7.234.613,030	264.254,108	781,695
28829+0,000	7.234.615,916	264.234,317	781,173
28830+0,000	7.234.618,643	264.214,504	780,612
28831+0,000	7.234.621,212	264.194,670	780,046
28831+13,785 PT	7.234.622,890	264.180,987	779,657
28832+0,000	7.234.623,629	264.174,816	779,481
28833+0,000	7.234.626,009	264.154,959	778,915
28834+0,000	7.234.628,389	264.135,101	778,350
28835+0,000	7.234.630,769	264.115,243	777,828
28836+0,000	7.234.633,148	264.095,385	777,375
28837+0,000	7.234.635,528	264.075,527	776,992
28838+0,000	7.234.637,908	264.055,669	776,679
28839+0,000	7.234.640,288	264.035,811	776,436
28840+0,000	7.234.642,668	264.015,953	776,262
28841+0,000	7.234.645,047	263.996,095	776,158
28842+0,000	7.234.647,427	263.976,237	776,124
28843+0,000	7.234.649,807	263.956,379	776,159
28844+0,000	7.234.652,187	263.936,522	776,264
28845+0,000	7.234.654,567	263.916,664	776,439
28846+0,000	7.234.656,946	263.896,806	776,683
28847+0,000	7.234.659,326	263.876,948	776,970
28848+0,000	7.234.661,706	263.857,090	777,258
28849+0,000	7.234.664,086	263.837,232	777,546
28850+0,000	7.234.666,465	263.817,374	777,834
28851+0,000	7.234.668,845	263.797,516	778,122
28852+0,000	7.234.671,225	263.777,658	778,407
28853+0,000	7.234.673,605	263.757,800	778,647
28854+0,000	7.234.675,985	263.737,942	778,833
28855+0,000	7.234.678,364	263.718,085	778,963
28856+0,000	7.234.680,744	263.698,227	779,038
28857+0,000	7.234.683,124	263.678,369	779,057
28858+0,000	7.234.685,504	263.658,511	779,021
28859+0,000	7.234.687,883	263.638,653	778,929
28860+0,000	7.234.690,263	263.618,795	778,783
28861+0,000	7.234.692,643	263.598,937	778,580
28862+0,000	7.234.695,023	263.579,079	778,323
28863+0,000	7.234.697,403	263.559,221	778,013

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA DIREITA			
Estaca	Norte	Este	Cota
28864+0,000	7.234.699,782	263.539,363	777,692
28865+0,000	7.234.702,162	263.519,505	777,371
28866+0,000	7.234.704,542	263.499,647	777,049
28867+0,000	7.234.706,922	263.479,790	776,728
28868+0,000	7.234.709,302	263.459,932	776,407
28869+0,000	7.234.711,681	263.440,074	776,085
28870+0,000	7.234.714,061	263.420,216	775,778
28871+0,000	7.234.716,441	263.400,358	775,521
28872+0,000	7.234.718,821	263.380,500	775,313
28873+0,000	7.234.721,200	263.360,642	775,157
28874+0,000	7.234.723,580	263.340,784	775,037
28875+0,000	7.234.725,960	263.320,926	774,918
28876+0,000	7.234.728,340	263.301,068	774,799
28877+0,000	7.234.730,720	263.281,210	774,681
28878+0,000	7.234.733,099	263.261,353	774,562
28879+0,000	7.234.735,479	263.241,495	774,444
28880+0,000	7.234.737,859	263.221,637	774,325
28881+0,000	7.234.740,239	263.201,779	774,207
28882+0,000	7.234.742,618	263.181,921	774,088
28883+0,000	7.234.744,998	263.162,063	773,970
28884+0,000	7.234.747,378	263.142,205	773,851
28885+0,000	7.234.749,758	263.122,347	773,733
28886+0,000	7.234.752,138	263.102,489	773,614
28887+0,000	7.234.754,517	263.082,631	773,543
28888+0,000	7.234.756,897	263.062,773	773,582
28889+0,000	7.234.759,277	263.042,916	773,732
28890+0,000	7.234.761,657	263.023,058	773,992
28891+0,000	7.234.764,037	263.003,200	774,363
28892+0,000	7.234.766,416	262.983,342	774,845
28893+0,000	7.234.768,796	262.963,484	775,438
28894+0,000	7.234.771,176	262.943,626	776,131
28895+0,000	7.234.773,556	262.923,768	776,842
28896+0,000	7.234.775,935	262.903,910	777,553
28897+0,000	7.234.778,315	262.884,052	778,265
28898+0,000	7.234.780,695	262.864,194	778,976
28899+0,000	7.234.783,075	262.844,336	779,661
28900+0,000	7.234.785,455	262.824,479	780,256
28901+0,000	7.234.787,834	262.804,621	780,758
28902+0,000	7.234.790,214	262.784,763	781,167
28903+0,000	7.234.792,594	262.764,905	781,483
28904+0,000	7.234.794,974	262.745,047	781,706
28905+0,000	7.234.797,354	262.725,189	781,835
28906+0,000	7.234.799,733	262.705,331	781,872
28907+0,000	7.234.802,113	262.685,473	781,815
28908+0,000	7.234.804,493	262.665,615	781,666
28909+0,000	7.234.806,873	262.645,757	781,470
28910+0,000	7.234.809,252	262.625,899	781,273
28911+0,000	7.234.811,632	262.606,041	781,077
28912+0,000	7.234.814,012	262.586,184	780,881
28913+0,000	7.234.816,392	262.566,326	780,685
28914+0,000	7.234.818,772	262.546,468	780,489
28915+0,000	7.234.821,151	262.526,610	780,292

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA DIREITA			
Estaca	Norte	Este	Cota
28916+0,000	7.234.823,531	262.506,752	780,096
28917+0,000	7.234.825,911	262.486,894	779,90
28918+0,000	7.234.828,291	262.467,036	779,704
28919+0,000	7.234.830,670	262.447,178	779,508
28920+0,000	7.234.833,050	262.427,320	779,311
28921+0,000	7.234.835,430	262.407,462	779,115
28922+0,000	7.234.837,810	262.387,604	778,919
28923+0,000	7.234.840,190	262.367,747	778,723
28924+0,000	7.234.842,569	262.347,889	778,527
28925+0,000	7.234.844,949	262.328,031	778,331
28926+0,000	7.234.847,329	262.308,173	778,134
28927+0,000	7.234.849,709	262.288,315	777,938
28928+0,000	7.234.852,089	262.268,457	777,742
28929+0,000	7.234.854,468	262.248,599	777,546
28930+0,000	7.234.856,848	262.228,741	777,350
28931+0,000	7.234.859,228	262.208,883	777,153
28932+0,000	7.234.861,608	262.189,025	776,957
28933+0,000	7.234.863,987	262.169,167	776,761
28933+10,000 PI	7.234.865,177	262.159,238	776,663
28934+0,000	7.234.866,378	262.149,311	776,565
28935+0,000	7.234.868,779	262.129,455	776,369
28936+0,000	7.234.871,180	262.109,600	776,173
28937+0,000	7.234.873,581	262.089,745	775,976
28938+0,000	7.234.875,981	262.069,889	775,780
28939+0,000	7.234.878,382	262.050,034	775,584
28940+0,000	7.234.880,783	262.030,179	775,403
28941+0,000	7.234.883,184	262.010,323	775,260
28941+12,412 TE	7.234.884,674	261.998,001	775,189
28942+0,000	7.234.885,584	261.990,468	775,149
28943+0,000	7.234.887,915	261.970,604	775,045
28944+0,000	7.234.890,023	261.950,716	774,940
28944+2,512 EC	7.234.890,264	261.948,215	774,927
28945+0,000	7.234.891,762	261.930,792	774,836
28946+0,000	7.234.893,094	261.910,837	774,738
28947+0,000	7.234.894,018	261.890,858	774,688
28948+0,000	7.234.894,534	261.870,865	774,695
28949+0,000	7.234.894,640	261.850,866	774,758
28950+0,000	7.234.894,338	261.830,869	774,877
28951+0,000	7.234.893,628	261.810,881	775,053
28952+0,000	7.234.892,509	261.790,913	775,285
28953+0,000	7.234.890,982	261.770,972	775,573
28954+0,000	7.234.889,048	261.751,066	775,917
28955+0,000	7.234.886,708	261.731,204	776,318
28956+0,000	7.234.883,962	261.711,393	776,775
28957+0,000	7.234.880,812	261.691,643	777,261
28958+0,000	7.234.877,259	261.671,962	777,747
28959+0,000	7.234.873,305	261.652,357	778,234
28960+0,000	7.234.868,950	261.632,837	778,720
28960+18,881 CE	7.234.864,475	261.614,495	779,179
28961+0,000	7.234.864,198	261.613,410	779,207
28962+0,000	7.234.859,081	261.594,076	779,693
28963+0,000	7.234.853,736	261.574,804	780,177

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA DIREITA			
Estaca	**Norte**	**Este**	**Cota**
28963+8,881 ET	7.234.851,330	261.566,255	780,390
28964+0,000	7.234.848,316	261.555,552	780,655
28965+0,000	7.234.842,894	261.536,301	781,126
28966+0,000	7.234.837,472	261.517,050	781,597
28967+0,000	7.234.832,050	261.497,799	782,067
28968+0,000	7.234.826,628	261.478,548	782,537
28969+0,000	7.234.821,206	261.459,297	783,008
28970+0,000	7.234.815,784	261.440,046	783,478
28971+0,000	7.234.810,362	261.420,795	783,948
28972+0,000	7.234.804,940	261.401,544	784,418
28973+0,000	7.234.799,518	261.382,293	784,889
28974+0,000	7.234.794,096	261.363,042	785,359
28975+0,000	7.234.788,674	261.343,791	785,829
28976+0,000	7.234.783,253	261.324,540	786,30
28977+0,000	7.234.777,831	261.305,289	786,770
28978+0,000	7.234.772,409	261.286,038	787,240
28979+0,000	7.234.766,987	261.266,787	787,692
28980+0,000	7.234.761,565	261.247,536	788,112
28981+0,000	7.234.756,143	261.228,285	788,501
28982+0,000	7.234.750,721	261.209,033	788,858
28983+0,000	7.234.745,299	261.189,782	789,184
28984+0,000	7.234.739,877	261.170,531	789,477
28985+0,000	7.234.734,455	261.151,280	789,739
28986+0,000	7.234.729,033	261.132,029	789,970
28987+0,000	7.234.723,611	261.112,778	790,168
28988+0,000	7.234.718,189	261.093,527	790,335
28989+0,000	7.234.712,767	261.074,276	790,471
28990+0,000	7.234.707,345	261.055,025	790,574
28991+0,000	7.234.701,923	261.035,774	790,646
28992+0,000	7.234.696,501	261.016,523	790,687
28993+0,000	7.234.691,079	260.997,272	790,695
28993+2,351 TE	7.234.690,442	260.995,009	790,694
28994+0,000	7.234.685,679	260.978,015	790,672
28995+0,000	7.234.680,442	260.958,713	790,618
28996+0,000	7.234.675,557	260.939,319	790,531
28996+12,351 EC	7.234.672,798	260.927,281	790,462
28997+0,000	7.234.671,211	260.919,798	790,413
28998+0,000	7.234.667,520	260.900,142	790,269
28999+0,000	7.234.664,494	260.880,374	790,121
29000+0,000	7.234.662,136	260.860,514	789,974
29001+0,000	7.234.660,451	260.840,586	789,827
29002+0,000	7.234.659,439	260.820,613	789,679
29003+0,000	7.234.659,102	260.800,617	789,532
29004+0,000	7.234.659,440	260.780,620	789,385
29005+0,000	7.234.660,453	260.760,647	789,237
29006+0,000	7.234.662,140	260.740,719	789,090
29007+0,000	7.234.664,498	260.720,860	788,921
29008+0,000	7.234.667,525	260.701,091	788,720
29009+0,000	7.234.671,218	260.681,436	788,511
29010+0,000	7.234.675,572	260.661,916	788,296
29011+0,000	7.234.680,582	260.642,555	788,077
29012+0,000	7.234.686,244	260.623,374	787,857

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA DIREITA			
Estaca	**Norte**	**Este**	**Cota**
29013+0,000	7.234.692,549	260.604,395	787,637
29014+0,000	7.234.699,491	260.585,640	787,417
29015+0,000	7.234.707,063	260.567,129	787,197
29016+0,000	7.234.715,255	260.548,885	786,977
29016+5,818 CE	7.234.717,753	260.543,631	786,913
29017+0,000	7.234.724,048	260.530,923	786,757
29018+0,000	7.234.733,321	260.513,203	786,542
29019+0,000	7.234.742,898	260.495,645	786,342
29019+15,818 ET	7.234.750,576	260.481,816	786,196
29020+0,000	7.234.752,610	260.478,161	786,159
29021+0,000	7.234.762,335	260.460,685	785,983
29021+0,000	7.234.762,335	260.460,685	785,983

Tabela 3 – Quadro de locação alinhamento RODOVIA BR-277 – PISTA ESQUERDA

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA ESQUERDA			
Estaca	**Norte**	**Este**	**Cota**
28737+7,664	7.234.088,771	265.987,262	
28738+0,000	7.234.092,484	265.975,498	797,759
28739+0,000	7.234.098,504	265.956,426	797,509
28740+0,000	7.234.104,523	265.937,353	797,232
28741+0,000	7.234.110,543	265.918,281	796,926
28742+0,000	7.234.116,563	265.899,208	796,592
28743+0,000	7.234.122,583	265.880,136	796,231
28744+0,000	7.234.128,603	265.861,063	795,841
28745+0,000	7.234.134,623	265.841,991	795,423
28746+0,000	7.234.140,642	265.822,918	794,989
28747+0,000	7.234.146,662	265.803,846	794,556
28748+0,000	7.234.152,682	265.784,773	794,125
28749+0,000	7.234.158,702	265.765,701	793,754
28750+0,000	7.234.164,722	265.746,628	793,466
28751+0,000	7.234.170,742	265.727,555	793,261
28752+0,000	7.234.176,761	265.708,483	793,137
28753+0,000	7.234.182,781	265.689,410	793,037
28754+0,000	7.234.188,801	265.670,338	792,937
28755+0,000	7.234.194,821	265.651,265	792,837
28756+0,000	7.234.200,841	265.632,193	792,737
28757+0,000	7.234.206,861	265.613,120	792,637
28758+0,000	7.234.212,880	265.594,048	792,537
28759+0,000	7.234.218,900	265.574,975	792,437
28760+0,000	7.234.224,920	265.555,903	792,337
28761+0,000	7.234.230,940	265.536,830	792,237
28762+0,000	7.234.236,960	265.517,758	792,137
28763+0,000	7.234.242,980	265.498,685	792,045
28764+0,000	7.234.248,999	265.479,613	792,022
28765+0,000	7.234.255,019	265.460,540	792,080
28766+0,000	7.234.261,039	265.441,467	792,220
28767+0,000	7.234.267,059	265.422,395	792,442
28768+0,000	7.234.273,079	265.403,322	792,737
28769+0,000	7.234.279,099	265.384,250	793,045
28770+0,000	7.234.285,118	265.365,177	793,353

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA ESQUERDA			
Estaca	Norte	Este	Cota
28771+0,000	7.234.291,138	265.346,105	793,662
28772+0,000	7.234.297,158	265.327,032	793,970
28773+0,000	7.234.303,178	265.307,960	794,275
28774+0,000	7.234.309,198	265.288,887	794,518
28775+0,000	7.234.315,218	265.269,815	794,674
28776+0,000	7.234.321,237	265.250,742	794,742
28777+0,000	7.234.327,257	265.231,670	794,724
28778+0,000	7.234.333,277	265.212,597	794,618
28779+0,000	7.234.339,297	265.193,525	794,425
28780+0,000	7.234.345,317	265.174,452	794,170
28781+0,000	7.234.351,337	265.155,379	793,912
28782+0,000	7.234.357,356	265.136,307	793,654
28783+0,000	7.234.363,376	265.117,234	793,395
28784+0,000	7.234.369,396	265.098,162	793,137
28785+0,000	7.234.375,416	265.079,089	792,879
28786+0,000	7.234.381,436	265.060,017	792,621
28787+0,000	7.234.387,456	265.040,944	792,363
28788+0,000	7.234.393,475	265.021,872	792,105
28789+0,000	7.234.399,495	265.002,799	791,847
28790+0,000	7.234.405,515	264.983,727	791,589
28791+0,000	7.234.411,535	264.964,654	791,331
28792+0,000	7.234.417,555	264.945,582	791,073
28793+0,000	7.234.423,575	264.926,509	790,814
28794+0,000	7.234.429,594	264.907,436	790,556
28795+0,000	7.234.435,614	264.888,364	790,298
28796+0,000	7.234.441,634	264.869,291	790,040
28797+0,000	7.234.447,654	264.850,219	789,782
28798+0,000	7.234.453,674	264.831,146	789,524
28799+0,000	7.234.459,694	264.812,074	789,266
28800+0,000	7.234.465,714	264.793,001	789,008
28801+0,000	7.234.471,733	264.773,929	788,750
28802+0,000	7.234.477,753	264.754,856	788,492
28803+0,000	7.234.483,773	264.735,784	788,233
28804+0,000	7.234.489,793	264.716,711	787,975
28805+0,000	7.234.495,813	264.697,639	787,717
28806+0,000	7.234.501,833	264.678,566	787,468
28806+17,569 PC	7.234.507,121	264.661,811	787,272
28807+0,000	7.234.507,851	264.659,493	787,246
28808+0,000	7.234.513,776	264.640,391	787,025
28809+0,000	7.234.519,548	264.621,242	786,805
28810+0,000	7.234.525,167	264.602,047	786,584
28811+0,000	7.234.530,631	264.582,809	786,363
28812+0,000	7.234.535,942	264.563,527	786,143
28813+0,000	7.234.541,098	264.544,203	785,913
28814+0,000	7.234.546,100	264.524,838	785,669
28815+0,000	7.234.550,946	264.505,435	785,410
28816+0,000	7.234.555,637	264.485,993	785,145
28817+0,000	7.234.560,173	264.466,514	784,880
28818+0,000	7.234.564,552	264.446,999	784,615
28819+0,000	7.234.568,775	264.427,450	784,351
28820+0,000	7.234.572,842	264.407,868	784,086

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA ESQUERDA			
Estaca	**Norte**	**Este**	**Cota**
28821+0,000	7.234.576,752	264.388,254	783,821
28822+0,000	7.234.580,505	264.368,609	783,556
28823+0,000	7.234.584,100	264.348,935	783,264
28824+0,000	7.234.587,538	264.329,233	782,929
28825+0,000	7.234.590,819	264.309,504	782,550
28826+0,000	7.234.593,941	264.289,749	782,128
28827+0,000	7.234.596,905	264.269,970	781,662
28828+0,000	7.234.599,711	264.250,168	781,152
28829+0,000	7.234.602,359	264.230,344	780,626
28830+0,000	7.234.604,847	264.210,499	780,10
28830+3,721 PT	7.234.605,293	264.206,805	780,002
28831+0,000	7.234.607,230	264.190,642	779,573
28832+0,000	7.234.609,610	264.170,784	779,047
28833+0,000	7.234.611,989	264.150,926	778,521
28834+0,000	7.234.614,369	264.131,068	777,994
28835+0,000	7.234.616,749	264.111,210	777,469
28836+0,000	7.234.619,129	264.091,352	776,990
28837+0,000	7.234.621,508	264.071,494	776,590
28838+0,000	7.234.623,888	264.051,636	776,267
28839+0,000	7.234.626,268	264.031,778	776,022
28840+0,000	7.234.628,648	264.011,921	775,855
28841+0,000	7.234.631,028	263.992,063	775,766
28842+0,000	7.234.633,407	263.972,205	775,755
28843+0,000	7.234.635,787	263.952,347	775,821
28844+0,000	7.234.638,167	263.932,489	775,966
28845+0,000	7.234.640,547	263.912,631	776,187
28846+0,000	7.234.642,927	263.892,773	776,439
28847+0,000	7.234.645,306	263.872,915	776,691
28848+0,000	7.234.647,686	263.853,057	776,943
28849+0,000	7.234.650,066	263.833,199	777,195
28850+0,000	7.234.652,446	263.813,341	777,447
28851+0,000	7.234.654,825	263.793,484	777,699
28852+0,000	7.234.657,205	263.773,626	777,951
28853+0,000	7.234.659,585	263.753,768	778,172
28854+0,000	7.234.661,965	263.733,910	778,343
28855+0,000	7.234.664,345	263.714,052	778,464
28856+0,000	7.234.666,724	263.694,194	778,534
28857+0,000	7.234.669,104	263.674,336	778,554
28858+0,000	7.234.671,484	263.654,478	778,525
28859+0,000	7.234.673,864	263.634,620	778,445
28860+0,000	7.234.676,243	263.614,762	778,314
28861+0,000	7.234.678,623	263.594,904	778,134
28862+0,000	7.234.681,003	263.575,047	777,903
28863+0,000	7.234.683,383	263.555,189	777,623
28864+0,000	7.234.685,763	263.535,331	777,323
28865+0,000	7.234.688,142	263.515,473	777,023
28866+0,000	7.234.690,522	263.495,615	776,723
28867+0,000	7.234.692,902	263.475,757	776,423
28868+0,000	7.234.695,282	263.455,899	776,123
28869+0,000	7.234.697,662	263.436,041	775,823
28870+0,000	7.234.700,041	263.416,183	775,558

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA ESQUERDA			
Estaca	Norte	Este	Cota
28871+0,000	7.234.702,421	263.396,325	775,350
28872+0,000	7.234.704,801	263.376,467	775,198
28873+0,000	7.234.707,181	263.356,610	775,068
28874+0,000	7.234.709,560	263.336,752	774,938
28875+0,000	7.234.711,940	263.316,894	774,808
28876+0,000	7.234.714,320	263.297,036	774,678
28877+0,000	7.234.716,700	263.277,178	774,548
28878+0,000	7.234.719,080	263.257,320	774,418
28879+0,000	7.234.721,459	263.237,462	774,288
28880+0,000	7.234.723,839	263.217,604	774,158
28881+0,000	7.234.726,219	263.197,746	774,028
28882+0,000	7.234.728,599	263.177,888	773,898
28883+0,000	7.234.730,979	263.158,030	773,768
28884+0,000	7.234.733,358	263.138,172	773,638
28885+0,000	7.234.735,738	263.118,315	773,508
28886+0,000	7.234.738,118	263.098,457	773,435
28887+0,000	7.234.740,498	263.078,599	773,454
28888+0,000	7.234.742,877	263.058,741	773,566
28889+0,000	7.234.745,257	263.038,883	773,769
28890+0,000	7.234.747,637	263.019,025	774,065
28891+0,000	7.234.750,017	262.999,167	774,453
28892+0,000	7.234.752,397	262.979,309	774,933
28893+0,000	7.234.754,776	262.959,451	775,506
28894+0,000	7.234.757,156	262.939,593	776,170
28895+0,000	7.234.759,536	262.919,735	776,870
28896+0,000	7.234.761,916	262.899,878	777,570
28897+0,000	7.234.764,295	262.880,020	778,270
28898+0,000	7.234.766,675	262.860,162	778,970
28899+0,000	7.234.769,055	262.840,304	779,652
28900+0,000	7.234.771,435	262.820,446	780,249
28901+0,000	7.234.773,815	262.800,588	780,755
28902+0,000	7.234.776,194	262.780,730	781,168
28903+0,000	7.234.778,574	262.760,872	781,489
28904+0,000	7.234.780,954	262.741,014	781,718
28905+0,000	7.234.783,334	262.721,156	781,856
28906+0,000	7.234.785,714	262.701,298	781,901
28907+0,000	7.234.788,093	262.681,441	781,854
28908+0,000	7.234.790,473	262.661,583	781,715
28909+0,000	7.234.792,853	262.641,725	781,502
28910+0,000	7.234.795,233	262.621,867	781,282
28911+0,000	7.234.797,612	262.602,009	781,062
28912+0,000	7.234.799,992	262.582,151	780,842
28913+0,000	7.234.802,372	262.562,293	780,622
28914+0,000	7.234.804,752	262.542,435	780,402
28915+0,000	7.234.807,132	262.522,577	780,182
28916+0,000	7.234.809,511	262.502,719	779,962
28917+0,000	7.234.811,891	262.482,861	779,742
28918+0,000	7.234.814,271	262.463,004	779,522
28919+0,000	7.234.816,651	262.443,146	779,302
28920+0,000	7.234.819,031	262.423,288	779,082
28921+0,000	7.234.821,410	262.403,430	778,862

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA ESQUERDA			
Estaca	Norte	Este	Cota
28922+0,000	7.234.823,790	262.383,572	778,642
28923+0,000	7.234.826,170	262.363,714	778,429
28924+0,000	7.234.828,550	262.343,856	778,226
28925+0,000	7.234.830,929	262.323,998	778,034
28926+0,000	7.234.833,309	262.304,140	777,846
28927+0,000	7.234.835,689	262.284,282	777,658
28928+0,000	7.234.838,069	262.264,424	777,470
28929+0,000	7.234.840,449	262.244,566	777,282
28930+0,000	7.234.842,828	262.224,709	777,094
28931+0,000	7.234.845,208	262.204,851	776,906
28932+0,000	7.234.847,588	262.184,993	776,718
28933+0,000	7.234.849,968	262.165,135	776,532
28933+0,000 PI	7.234.849,968	262.165,135	776,532
28933+7,664 PI	7.234.850,916	262.157,529	776,461
28934+0,000	7.234.852,396	262.145,283	776,350
28935+0,000	7.234.854,795	262.125,427	776,172
28936+0,000	7.234.857,194	262.105,572	775,994
28937+0,000	7.234.859,593	262.085,716	775,817
28938+0,000	7.234.861,992	262.065,860	775,640
28939+0,000	7.234.864,391	262.046,005	775,463
28940+0,000	7.234.866,790	262.026,149	775,299
28941+0,000	7.234.869,189	262.006,294	775,154
28942+0,000	7.234.871,588	261.986,438	775,026
28942+7,736 TE	7.234.872,516	261.978,758	774,977
28943+0,000	7.234.873,980	261.966,582	774,90
28944+0,000	7.234.876,268	261.946,713	774,773
28944+17,736 EC	7.234.878,076	261.929,070	774,661
28945+0,000	7.234.878,285	261.926,815	774,646
28946+0,000	7.234.879,901	261.906,881	774,532
28947+0,000	7.234.881,095	261.886,917	774,474
28948+0,000	7.234.881,866	261.866,932	774,478
28949+0,000	7.234.882,216	261.846,936	774,542
28950+0,000	7.234.882,142	261.826,936	774,668
28951+0,000	7.234.881,647	261.806,943	774,854
28952+0,000	7.234.880,728	261.786,964	775,102
28953+0,000	7.234.879,388	261.767,010	775,410
28954+0,000	7.234.877,626	261.747,088	775,780
28955+0,000	7.234.875,444	261.727,207	776,211
28956+0,000	7.234.872,842	261.707,378	776,698
28957+0,000	7.234.869,822	261.687,608	777,197
28958+0,000	7.234.866,385	261.667,905	777,696
28959+0,000	7.234.862,532	261.648,280	778,195
28960+0,000	7.234.858,265	261.628,741	778,694
28961+0,000	7.234.853,586	261.609,297	779,193
28961+1,349 CE	7.234.853,256	261.607,989	779,226
28962+0,000	7.234.848,520	261.589,949	779,692
28963+0,000	7.234.843,198	261.570,671	780,191
28963+11,349 ET	7.234.840,126	261.559,745	780,474
28964+0,000	7.234.837,781	261.551,418	780,690
28965+0,000	7.234.832,359	261.532,167	781,186
28966+0,000	7.234.826,937	261.512,916	781,672

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA ESQUERDA			
Estaca	Norte	Este	Cota
28967+0,000	7.234.821,515	261.493,665	782,148
28968+0,000	7.234.816,093	261.474,414	782,620
28969+0,000	7.234.810,671	261.455,163	783,092
28970+0,000	7.234.805,249	261.435,912	783,565
28971+0,000	7.234.799,827	261.416,661	784,037
28972+0,000	7.234.794,405	261.397,410	784,509
28973+0,000	7.234.788,983	261.378,159	784,982
28974+0,000	7.234.783,561	261.358,908	785,454
28975+0,000	7.234.778,139	261.339,657	785,926
28976+0,000	7.234.772,717	261.320,406	786,399
28977+0,000	7.234.767,295	261.301,155	786,871
28978+0,000	7.234.761,873	261.281,904	787,343
28979+0,000	7.234.756,451	261.262,653	787,816
28980+0,000	7.234.751,029	261.243,401	788,278
28981+0,000	7.234.745,607	261.224,150	788,706
28982+0,000	7.234.740,186	261.204,899	789,099
28983+0,000	7.234.734,764	261.185,648	789,457
28984+0,000	7.234.729,342	261.166,397	789,779
28985+0,000	7.234.723,920	261.147,146	790,066
28986+0,000	7.234.718,498	261.127,895	790,318
28987+0,000	7.234.713,076	261.108,644	790,534
28988+0,000	7.234.707,654	261.089,393	790,715
28989+0,000	7.234.702,232	261.070,142	790,861
28990+0,000	7.234.696,810	261.050,891	790,972
28991+0,000	7.234.691,388	261.031,640	791,047
28992+0,000	7.234.685,966	261.012,389	791,087
28992+15,517 TE	7.234.681,759	260.997,453	791,093
28993+0,000	7.234.680,544	260.993,138	791,091
28994+0,000	7.234.675,178	260.973,871	791,060
28995+0,000	7.234.670,036	260.954,544	790,994
28996+0,000	7.234.665,304	260.935,112	790,893
28996+5,517 EC	7.234.664,096	260.929,729	790,859
28997+0,000	7.234.661,158	260.915,548	790,757
28998+0,000	7.234.657,663	260.895,856	790,612
28999+0,000	7.234.654,825	260.876,060	790,466
29000+0,000	7.234.652,647	260.856,180	790,321
29001+0,000	7.234.651,132	260.836,238	790,175
29002+0,000	7.234.650,280	260.816,257	790,030
29003+0,000	7.234.650,093	260.796,259	789,884
29004+0,000	7.234.650,571	260.776,265	789,739
29005+0,000	7.234.651,713	260.756,299	789,593
29006+0,000	7.234.653,519	260.736,382	789,448
29007+0,000	7.234.655,985	260.716,535	789,297
29008+0,000	7.234.659,111	260.696,782	789,129
29009+0,000	7.234.662,891	260.677,143	788,942
29010+0,000	7.234.667,322	260.657,641	788,737
29011+0,000	7.234.672,400	260.638,298	788,514
29012+0,000	7.234.678,117	260.619,133	788,273
29013+0,000	7.234.684,469	260.600,170	788,018
29014+0,000	7.234.691,447	260.581,428	787,763
29015+0,000	7.234.699,045	260.562,928	787,508

Alinhamento: BR-277 - LOTE 6 - EIXO PISTA ESQUERDA			
Estaca	Norte	Este	Cota
29016+0,000	7.234.707,254	260.544,691	787,253
29016+6,042 CE	7.234.709,853	260.539,237	787,177
29017+0,000	7.234.716,055	260.526,733	787,009
29018+0,000	7.234.725,330	260.509,014	786,785
29019+0,000	7.234.734,908	260.491,456	786,580
29019+16,042 ET	7.234.742,694	260.477,431	786,416
29020+0,000	7.234.744,619	260.473,972	786,376
29020+20,000	7.234.754,344	260.456,496	786,172

Tabela 4 – Quadro de locação alinhamento RODOVIA PR-180 - Eixo

Alinhamento: LOTE 6A - PR-180 - EIXO			
Estaca	Norte	Este	Cota
4000+0,000	7.234.075,748	260.441,233	
4000+1,643 TE	7.234.077,388	260.441,326	795,184
4001+0,000	7.234.095,714	260.442,399	795,064
4002+0,000	7.234.115,662	260.443,837	794,932
4003+0,000	7.234.135,560	260.445,844	794,801
4004+0,000	7.234.155,351	260.448,713	794,669
4005+0,000	7.234.174,939	260.452,731	794,538
4005+16,643 EC	7.234.190,982	260.457,148	794,428
4006+0,000	7.234.194,180	260.458,171	794,406
4007+0,000	7.234.212,894	260.465,209	794,275
4008+0,000	7.234.230,938	260.473,821	794,143
4009+0,000	7.234.248,179	260.483,945	794,012
4010+0,000	7.234.264,491	260.495,506	793,880
4011+0,000	7.234.279,755	260.508,420	793,714
4012+0,000	7.234.293,859	260.522,591	793,480
4012+10,794 CE	7.234.300,953	260.530,726	793,324
4013+0,000	7.234.306,704	260.537,914	793,176
4014+0,000	7.234.318,310	260.554,197	792,838
4015+0,000	7.234.328,854	260.571,189	792,501
4016+0,000	7.234.338,554	260.588,677	792,163
4017+0,000	7.234.347,652	260.606,487	791,825
4018+0,000	7.234.356,407	260.624,469	791,487
4018+5,794 ET	7.234.358,917	260.629,691	791,389
4018+6,320 TE	7.234.359,145	260.630,165	791,381
4019+0,000	7.234.365,083	260.642,489	791,149
4020+0,000	7.234.373,942	260.660,420	790,812
4021+0,000	7.234.383,248	260.678,122	790,474
4022+0,000	7.234.393,253	260.695,438	790,080
4023+0,000	7.234.404,191	260.712,178	789,533
4024+0,000	7.234.416,268	260.728,113	788,830
4024+1,320 EC	7.234.417,110	260.729,130	788,778
4025+0,000	7.234.429,619	260.742,997	787,982
4026+0,000	7.234.444,193	260.756,684	787,101
4027+0,000	7.234.459,884	260.769,075	786,220
4027+0,143 CE	7.234.460,000	260.769,159	786,214
4028+0,000	7.234.476,552	260.780,120	785,340
4029+0,000	7.234.493,960	260.789,959	784,513
4030+0,000	7.234.511,893	260.798,809	783,819

Alinhamento: LOTE 6A - PR-180 - EIXO			
Estaca	**Norte**	**Este**	**Cota**
4031+0,000	7.234.530,175	260.806,917	783,259
4032+0,000	7.234.548,664	260.814,543	782,826
4032+15,143 ET	7.234.562,725	260.820,164	782,523
4033+0,000	7.234.567,238	260.821,961	782,426
4034+0,000	7.234.585,819	260.829,358	782,026
4034+7,629	7.234.592,907	260.832,179	781,873

Tabela 5 – Quadro de locação Rotatória Norte

Alinhamento: LOTE 6A - ROTATÓRIA NORTE			
Estaca	**Norte**	**Este**	**Cota**
10+0,000 PI	7.234.689,365	260.832,978	781,829
11+0,000	7.234.701,655	260.846,874	781,731
12+0,000	7.234.718,052	260.838,198	781,786
13+0,000	7.234.713,476	260.820,220	781,895
14+0,000	7.234.694,926	260.820,438	781,90
14+14,248	7.234.689,365	260.832,978	781,829

Tabela 6 – Quadro de locação Rotatória Sul

Alinhamento: LOTE 6A - ROTATÓRIA SUL			
Estaca	**Norte**	**Este**	**Cota**
20+0,000	7.234.621,819	260.836,865	
20+0,000 PI	7.234.621,819	260.836,865	781,888
21+0,000	7.234.609,531	260.822,967	781,968
22+0,000	7.234.593,133	260.831,641	781,879
23+0,000	7.234.597,706	260.849,620	781,772
24+0,000	7.234.616,256	260.849,404	781,817
24+14,247	7.234.621,819	260.836,865	781,888

Tabela 7 – Quadro de locação alinhamento 600

Alinhamento: LOTE 6A - RAMO 600			
Estaca	**Norte**	**Este**	**Cota**
600+0,000 PC	7.234.714,176	260.808,049	782,137
600+19,137 PT	7.234.702,250	260.794,017	781,628
601+0,000	7.234.702,057	260.793,176	781,621
602+0,000	7.234.697,576	260.773,684	782,065
602+12,951 PC	7.234.694,674	260.761,063	782,937
603+0,000	7.234.693,175	260.754,175	783,461
604+0,000	7.234.689,809	260.734,464	784,949
605+0,000	7.234.687,764	260.714,572	786,433
606+0,000	7.234.687,048	260.694,589	787,459
607+0,000	7.234.687,664	260.674,602	787,699

Tabela 8 – Quadro de locação alinhamento 700

Alinhamento: LOTE 6A - RAMO 700			
Estaca	**Norte**	**Este**	**Cota**
700+0,000	7.234.690,242	260.565,243	
701+0,000	7.234.682,507	260.583,687	787,902

Alinhamento: LOTE 6A - RAMO 700			
Estaca	Norte	Este	Cota
702+0,000	7.234.674,772	260.602,131	788,104
703+0,000	7.234.667,037	260.620,574	788,305
704+0,000	7.234.659,301	260.639,018	788,506
705+0,000	7.234.651,566	260.657,461	788,708
705+7,189 PC	7.234.648,786	260.664,091	788,746
706+0,000	7.234.644,021	260.675,982	788,616
707+0,000	7.234.637,350	260.694,835	787,906
708+0,000	7.234.631,630	260.713,997	786,611
708+6,505 PT	7.234.629,977	260.720,288	786,143
709+0,000	7.234.626,654	260.733,368	785,174
710+0,000	7.234.621,729	260.752,752	783,738
711+0,000	7.234.616,803	260.772,136	782,576
712+0,000	7.234.611,878	260.791,520	782,019
712+1,096 PC	7.234.611,608	260.792,582	782,006
713+0,000	7.234.602,405	260.808,840	782,050

Tabela 9 – Quadro de locação alinhamento 800

Alinhamento: LOTE 6A - RAMO 800			
Estaca	Norte	Este	Cota
800+0,000	7.234.727,367	261.055,660	
801+0,000	7.234.721,945	261.036,409	790,120
801+14,316 PC	7.234.718,064	261.022,629	790,314
802+0,000	7.234.716,575	261.017,143	790,384
803+0,000	7.234.712,167	260.997,639	790,059
804+0,000	7.234.709,069	260.977,884	788,789
804+5,292 PT	7.234.708,470	260.972,627	788,366
805+0,000	7.234.706,934	260.957,999	787,190
805+3,766 PC	7.234.706,540	260.954,253	786,888
806+0,000	7.234.705,283	260.938,070	785,590
807+0,000	7.234.704,940	260.918,077	783,990
807+17,564 PT	7.234.705,737	260.900,534	782,609
808+0,000	7.234.705,919	260.898,104	782,449
809+0,000	7.234.707,412	260.878,160	781,697
809+8,086 PC	7.234.708,015	260.870,097	781,679

Tabela 10 – Quadro de locação alinhamento 900

Alinhamento: LOTE 6A - RAMO 900			
Estaca	Norte	Este	Cota
900+0,000 PC	7.234.601,733	260.863,220	
900+19,137 PT	7.234.616,095	260.874,746	781,509
901+0,000	7.234.616,443	260.875,535	781,502
902+0,000	7.234.624,527	260.893,829	781,842
902+8,063 PC	7.234.627,786	260.901,204	782,260
903+0,000	7.234.632,479	260.912,179	783,115
904+0,000	7.234.639,752	260.930,809	784,599
904+2,511 PT	7.234.640,612	260.933,168	784,786
905+0,000	7.234.646,562	260.949,613	786,083
906+0,000	7.234.653,367	260.968,420	787,567
907+0,000	7.234.660,172	260.987,227	789,032

Alinhamento: LOTE 6A - RAMO 900			
Estaca	Norte	Este	Cota
908+0,000	7.234.666,976	261.006,034	790,117
909+0,000	7.234.673,781	261.024,841	790,692
910+0,000	7.234.680,586	261.043,647	790,764
911+0,000	7.234.687,390	261.062,454	790,664
912+0,000	7.234.694,195	261.081,261	790,564
913+0,000	7.234.701,000	261.100,068	790,439
913+5,312 PC	7.234.702,807	261.105,063	790,399
914+0,000	7.234.707,648	261.118,930	790,272
915+0,000	7.234.713,733	261.137,981	790,064
915+12,342 PT	7.234.717,195	261.149,827	789,915
915+13,195 PI	7.234.717,427	261.150,649	789,905
916+0,000	7.234.719,605	261.157,095	789,815
917+0,000	7.234.726,009	261.176,042	789,524
918+0,000	7.234.732,412	261.194,989	789,196
919+0,000	7.234.738,815	261.213,937	788,859
919+3,288	7.234.739,868	261.217,052	788,803

Tabela 11 – Quadro de locação PI km 580+040

Alinhamento: LOTE 6A - PI km 580+040			
Estaca	Norte	Este	Cota
4500+0,000	7.234.621,819	260.836,865	
4501+0,000	7.234.641,786	260.835,716	782,246
4502+0,000	7.234.661,753	260.834,567	782,195
4503+0,000	7.234.681,720	260.833,418	781,988
4503+7,657	7.234.689,365	260.832,978	781,833

Tabela 12 – Quadro de locação alinhamento 5000 – marginal direita

Alinhamento: LOTE 6A - MARGINAL DIREITA 5000			
Estaca	Norte	Este	Cota
5000+0,000	7.234.887,523	261.710,863	
5000+5,616 PC	7.234.886,666	261.705,313	777,034
5001+0,000	7.234.884,366	261.691,114	777,386
5002+0,000	7.234.880,821	261.671,431	777,875
5003+0,000	7.234.876,873	261.651,825	778,364
5004+0,000	7.234.872,525	261.632,303	778,853
5004+14,565 PT	7.234.869,107	261.618,145	779,209
5004+14,764 PI	7.234.869,059	261.617,953	779,214
5005+0,000	7.234.868,185	261.612,789	779,340
5006+0,000	7.234.864,849	261.593,070	779,799
5007+0,000	7.234.861,513	261.573,350	780,222
5007+7,430 PC	7.234.860,274	261.566,024	780,371
5008+0,000	7.234.857,867	261.553,688	780,613
5008+14,168 PT	7.234.854,414	261.539,949	780,949
5009+0,000	7.234.852,833	261.534,335	781,118
5010+0,000	7.234.847,411	261.515,084	781,729
5011+0,000	7.234.841,989	261.495,833	782,305
5012+0,000	7.234.836,567	261.476,582	782,803
5013+0,000	7.234.831,145	261.457,331	783,297
5014+0,000	7.234.825,724	261.438,080	783,791

Alinhamento: LOTE 6A - MARGINAL DIREITA 5000			
Estaca	Norte	Este	Cota
5015+0,000	7.234.820,302	261.418,829	784,285
5016+0,000	7.234.814,880	261.399,578	784,779
5017+0,000	7.234.809,458	261.380,327	785,274
5018+0,000	7.234.804,036	261.361,076	785,768
5019+0,000	7.234.798,614	261.341,825	786,262
5020+0,000	7.234.793,192	261.322,574	786,694
5021+0,000	7.234.787,770	261.303,323	786,927
5022+0,000	7.234.782,348	261.284,072	787,102
5023+0,000	7.234.776,926	261.264,821	787,276
5024+0,000	7.234.771,504	261.245,570	787,467
5025+0,000	7.234.766,082	261.226,319	787,694
5026+0,000	7.234.760,660	261.207,068	787,956
5027+0,000	7.234.755,238	261.187,817	788,224
5028+0,000	7.234.749,816	261.168,566	788,492
5029+0,000	7.234.744,394	261.149,315	788,760
5030+0,000	7.234.738,972	261.130,064	789,028
5031+0,000	7.234.733,550	261.110,813	789,296
5032+0,000	7.234.728,128	261.091,562	789,564
5033+0,000	7.234.722,706	261.072,310	789,832
5034+0,000	7.234.717,284	261.053,059	790,10
5034+14,764	7.234.713,282	261.038,849	790,298

Tabela 13 – Quadro de locação Retorno km 579

Alinhamento: LOTE 6A - RETORNO km 579			
Estaca	Norte	Este	Cota
30+0,000	7.234.879,110	261.953,709	774,816
31+0,000	7.234.877,739	261.973,661	774,949
32+0,000	7.234.876,367	261.993,614	775,083
33+0,000	7.234.874,996	262.013,567	775,214
34+0,000	7.234.873,157	262.033,476	775,336
35+0,000	7.234.870,758	262.053,332	775,449
35+0,891 PC	7.234.870,651	262.054,216	775,453
35+19,528 PT	7.234.873,198	262.072,469	775,581
35+19,541 PC	7.234.873,203	262.072,481	775,582
36+0,000	7.234.873,388	262.072,901	775,587
37+0,000	7.234.890,350	262.078,180	775,924
37+8,974 PT	7.234.895,761	262.071,283	776,028
37+8,988 PC	7.234.895,765	262.071,271	776,028
38+0,000	7.234.897,279	262.060,406	776,075
38+3,948 PT	7.234.897,005	262.056,470	776,070
39+0,000	7.234.895,017	262.040,541	775,929
40+0,000	7.234.892,540	262.020,695	775,50

Tabela 14 – Quadro de locação Agulha temporária 1000

Alinhamento: LOTE 6B - AGULHA TEMPORÁRIA 1000			
Estaca	Norte	Este	Cota
1000+0,000	7.234.862,537	262.151,013	
1001+0,000	7.234.860,158	262.170,871	776,512
1002+0,000	7.234.857,778	262.190,729	776,698

1003+0,000	7.234.855,398	262.210,587	776,886
1003+7,233	7.234.854,537	262.217,768	776,954

Tabela 15 – Quadro de locação Alinhamento 1100 – Marginal Esquerda

Alinhamento: LOTE 6B - MARGINAL ESQUERDA 1100			
Estaca	**Norte**	**Este**	**Cota**
1100+0,000	7.234.841,634	262.204,422	
1101+0,000	7.234.839,254	262.224,280	777,022
1102+0,000	7.234.836,874	262.244,138	777,210
1103+0,000	7.234.834,494	262.263,996	777,398
1104+0,000	7.234.832,115	262.283,854	777,586
1104+15,847 PC	7.234.830,229	262.299,588	777,728
1105+0,000	7.234.829,666	262.303,703	777,762
1105+12,896 PT	7.234.827,041	262.316,323	777,862
1106+0,000	7.234.825,234	262.323,193	777,914
1107+0,000	7.234.820,146	262.342,535	778,063
1107+5,776 PC	7.234.818,677	262.348,121	778,106
1108+0,000	7.234.814,738	262.361,788	778,212
1108+16,099 PT	7.234.809,513	262.377,013	778,331
1109+0,000	7.234.808,149	262.380,668	778,360
1109+9,364 PC	7.234.804,876	262.389,441	778,430
1109+15,508 PT	7.234.803,959	262.395,473	778,480
1110+0,000	7.234.804,207	262.399,958	778,517
1111+0,000	7.234.805,312	262.419,927	778,707
1111+9,708 PC	7.234.805,849	262.429,620	778,810
1112+0,000	7.234.806,073	262.439,908	778,922
1112+16,521 PT	7.234.804,992	262.456,386	779,10
1113+0,000	7.234.804,579	262.459,840	779,138
1114+0,000	7.234.802,199	262.479,698	779,354
1115+0,000	7.234.799,819	262.499,556	779,570
1116+0,000	7.234.797,439	262.519,414	779,786
1117+0,000	7.234.795,059	262.539,271	780,002
1118+0,000	7.234.792,680	262.559,129	780,218
1119+0,000	7.234.790,300	262.578,987	780,435
1120+0,000	7.234.787,920	262.598,845	780,652
1121+0,000	7.234.785,540	262.618,703	780,893
1122+0,000	7.234.783,160	262.638,561	781,169
1123+0,000	7.234.780,781	262.658,419	781,480
1124+0,000	7.234.778,401	262.678,277	781,769
1125+0,000	7.234.776,021	262.698,135	781,932
1126+0,000	7.234.773,641	262.717,993	781,963
1127+0,000	7.234.771,262	262.737,851	781,863
1128+0,000	7.234.768,882	262.757,709	781,631
1129+0,000	7.234.766,502	262.777,566	781,268
1129+19,667 PC	7.234.764,162	262.797,094	780,782
1130+0,000	7.234.764,123	262.797,424	780,773
1131+0,000	7.234.763,433	262.817,390	780,179
1131+1,094 PT	7.234.763,490	262.818,482	780,146
1131+13,418 PC	7.234.764,186	262.830,787	779,777

Alinhamento: LOTE 6B - MARGINAL ESQUERDA 1100			
Estaca	Norte	Este	Cota
1132+0,000	7.234.764,417	262.837,364	779,580
1133+0,000	7.234.763,389	262.857,324	778,965
1133+0,416 PT	7.234.763,340	262.857,737	778,952
1134+0,000	7.234.761,010	262.877,182	778,296
1135+0,000	7.234.758,630	262.897,040	777,610
1136+0,000	7.234.756,250	262.916,898	776,924
1137+0,000	7.234.753,870	262.936,755	776,238
1138+0,000	7.234.751,491	262.956,613	775,551
1138+10,427	7.234.750,250	262.966,966	775,194

Tabela 16 – Quadro de locação Alinhamento 1200 – Taper e Retorno

Alinhamento: LOTE 6B - TAPER E RETORNO 1200			
Estaca	Norte	Este	Cota
1200+0,000	7.234.806,731	262.391,572	
1200+14,986 PC	7.234.811,891	262.377,502	778,414
1201+0,000	7.234.816,735	262.376,269	778,446
1202+0,000	7.234.834,068	262.384,150	778,781
1202+0,816 PT	7.234.834,516	262.384,832	778,788
1203+0,000	7.234.832,234	262.403,879	778,898
1204+0,000	7.234.829,854	262.423,737	779,025
1205+0,000	7.234.827,474	262.443,595	779,230
1206+0,000	7.234.825,094	262.463,453	779,449
1207+0,000	7.234.822,715	262.483,311	779,668
1208+0,000	7.234.820,335	262.503,169	779,886
1209+0,000	7.234.817,955	262.523,027	780,105
1210+0,000	7.234.815,575	262.542,885	780,324
1211+0,000	7.234.813,195	262.562,743	780,542
1212+0,000	7.234.810,816	262.582,601	780,761
1212+0,000	7.234.810,816	262.582,601	780,761

Tabela 17 – Quadro de locação Alinhamento 1300 – Agulha de acesso

Alinhamento: LOTE 6B - AGULHA DE ACESSO AO POSTO 1300			
Estaca	Norte	Este	Cota
1300+0,000	7.234.760,472	263.063,202	
1301+0,000	7.234.758,092	263.083,060	773,451
1302+0,000	7.234.755,712	263.102,918	773,510
1303+0,000	7.234.753,332	263.122,776	773,645
1304+0,000	7.234.750,952	263.142,633	773,781
1305+0,000	7.234.748,573	263.162,491	773,917
1306+0,000	7.234.746,193	263.182,349	774,054
1307+0,000	7.234.743,813	263.202,207	774,190
1308+0,000	7.234.741,433	263.222,065	774,327
1308+9,204 PC	7.234.740,338	263.231,204	774,389
1309+0,000	7.234.740,022	263.241,981	774,468
1309+16,779 PT	7.234.743,353	263.258,370	774,684
1310+0,000	7.234.744,428	263.261,406	774,740
1310+2,354 PC	7.234.745,214	263.263,625	774,783
1311+0,000	7.234.749,229	263.280,772	775,039
1311+19,121 PT	7.234.749,234	263.299,847	775,183

Alinhamento: LOTE 6B - AGULHA DE ACESSO AO POSTO 1300			
Estaca	**Norte**	**Este**	**Cota**
1312+0,000	7.234.749,129	263.300,720	775,189
1312+12,296	7.234.747,666	263.312,929	775,274

Tabela 18 – Quadro de locação Alinhamento 1400 – Agulha de acesso

Alinhamento: LOTE 6B - AGULHA DE ACESSO AO POSTO 1400			
Estaca	**Norte**	**Este**	**Cota**
1400+0,000 PC	7.234.741,392	263.365,278	775,636
1401+0,000	7.234.735,950	263.384,438	775,708
1401+9,384 PT	7.234.731,389	263.392,628	775,655
1401+18,372 PC	7.234.726,448	263.400,137	775,569
1402+0,000	7.234.725,572	263.401,509	775,558
1403+0,000	7.234.718,036	263.419,935	775,631
1403+6,136 PT	7.234.716,996	263.425,979	775,728
1404+0,000	7.234.715,346	263.439,745	775,972
1405+0,000	7.234.712,967	263.459,603	776,324
1406+0,000	7.234.710,587	263.479,461	776,676
1407+0,000	7.234.708,207	263.499,319	777,028
1408+0,000	7.234.705,827	263.519,177	777,380
1408+0,762	7.234.705,737	263.519,934	777,393

Tabela 19 – Quadro de locação Alinhamento 1700 – Agulha de acesso

Alinhamento: LOTE 6B - AGULHA DE ACESSO AO POSTO 1700			
Estaca	**Norte**	**Este**	**Cota**
1700+0,000	7.234.637,907	264.085,935	
1701+0,000	7.234.635,527	264.105,793	777,568
1702+0,000	7.234.633,147	264.125,651	778,019
1703+0,000	7.234.630,767	264.145,509	778,538
1704+0,000	7.234.628,388	264.165,366	779,149
1704+16,164 PC	7.234.626,464	264.181,415	779,655
1705+0,000	7.234.626,005	264.185,224	779,770
1706+0,000	7.234.623,515	264.205,068	780,336
1707+0,000	7.234.620,867	264.224,892	780,861
1708+0,000	7.234.618,061	264.244,694	781,384
1708+14,531 PT	7.234.615,923	264.259,067	781,755
1708+14,537 PC	7.234.615,922	264.259,073	781,755
1709+0,000	7.234.615,336	264.264,503	781,885
1710+0,000	7.234.617,177	264.284,335	782,315
1710+2,215 PT	7.234.617,761	264.286,472	782,361
1710+18,031	7.234.622,202	264.301,651	782,684

Tabela 20 – Quadro de locação Alinhamento 1600 – Agulha de acesso

Alinhamento: LOTE 6B - AGULHA DE ACESSO AO POSTO 1600			
Estaca	**Norte**	**Este**	**Cota**
1600+0,000	7.234.607,420	264.426,924	
1601+0,000	7.234.592,520	264.440,266	784,469
1601+9,176 PC	7.234.585,684	264.446,386	784,720
1601+17,932 PT	7.234.580,381	264.453,291	784,876
1602+0,000	7.234.579,475	264.455,150	784,901
1602+5,414 PI	7.234.576,996	264.459,963	784,960
1602+12,827 PT	7.234.575,251	264.467,238	785,041
1602+12,901 PC	7.234.575,234	264.467,311	785,042
1603+0,000	7.234.573,569	264.474,211	785,120
1604+0,000	7.234.568,773	264.493,628	785,340
1605+0,000	7.234.563,822	264.513,005	785,560
1606+0,000	7.234.558,716	264.532,342	785,781
1607+0,000	7.234.553,455	264.551,638	786,001
1607+16,530 PT	7.234.548,991	264.567,554	786,182
1607+16,642	7.234.548,961	264.567,661	786,184

Tabela 21 – Quadro de locação Alinhamento 0050 – Marginal Show Rural

Alinhamento: LOTE 6B - MARGINAL DIREITA (SHOW RURAL)			
Estaca	**Norte**	**Este**	**Cota**
0+0,000	7.234.747,666	263.312,929	775,274
1+0,000	7.234.745,286	263.332,787	775,412
2+0,000	7.234.742,906	263.352,645	775,549
3+0,000	7.234.740,526	263.372,503	775,686
4+0,000	7.234.738,147	263.392,361	775,824
5+0,000	7.234.735,767	263.412,218	775,966
6+0,000	7.234.733,387	263.432,076	776,144
7+0,000	7.234.731,007	263.451,934	776,363
8+0,000	7.234.728,628	263.471,792	776,623
9+0,000	7.234.726,248	263.491,650	776,919
10+0,000	7.234.723,868	263.511,508	777,220
11+0,000	7.234.721,488	263.531,366	777,520
12+0,000	7.234.719,108	263.551,224	777,821
13+0,000	7.234.716,729	263.571,082	778,122
14+0,000	7.234.714,349	263.590,940	778,416
15+0,000	7.234.711,969	263.610,798	778,667
16+0,000	7.234.709,589	263.630,656	778,866
17+0,000	7.234.707,209	263.650,513	779,015
18+0,000	7.234.704,830	263.670,371	779,114
19+0,000	7.234.702,450	263.690,229	779,162
20+0,000	7.234.700,070	263.710,087	779,159
21+0,000	7.234.697,690	263.729,945	779,106
22+0,000	7.234.695,311	263.749,803	779,002
23+0,000	7.234.692,931	263.769,661	778,848
24+0,000	7.234.690,551	263.789,519	778,643
25+0,000	7.234.688,171	263.809,377	778,388
26+0,000	7.234.685,791	263.829,235	778,089
27+0,000	7.234.683,412	263.849,093	777,783
28+0,000	7.234.681,032	263.868,950	777,477
29+0,000	7.234.678,652	263.888,808	777,160

Alinhamento: LOTE 6B - MARGINAL DIREITA (SHOW RURAL)			
Estaca	**Norte**	**Este**	**Cota**
30+0,000	7.234.676,272	263.908,666	776,765
31+0,000	7.234.673,893	263.928,524	776,281
32+0,000	7.234.671,513	263.948,382	775,719
33+0,000	7.234.669,133	263.968,240	775,229
34+0,000	7.234.666,753	263.988,098	774,906
35+0,000	7.234.664,373	264.007,956	774,749
36+0,000	7.234.661,994	264.027,814	774,758
37+0,000	7.234.659,614	264.047,672	774,934
38+0,000	7.234.657,234	264.067,530	775,276
39+0,000	7.234.654,854	264.087,387	775,833
40+0,000	7.234.652,474	264.107,245	776,655
41+0,000	7.234.650,095	264.127,103	777,609
42+0,000	7.234.647,715	264.146,961	778,532
43+0,000	7.234.645,335	264.166,819	779,350
43+1,617 PC	7.234.645,143	264.168,425	779,412
44+0,000	7.234.642,871	264.186,667	780,060
45+0,000	7.234.640,210	264.206,489	780,660
46+0,000	7.234.637,351	264.226,283	781,152
47+0,000	7.234.634,294	264.246,048	781,565
48+0,000	7.234.631,039	264.265,781	781,975
49+0,000	7.234.627,587	264.285,481	782,385
50+0,000	7.234.623,938	264.305,145	782,795
51+0,000	7.234.620,093	264.324,772	783,205
52+0,000	7.234.616,052	264.344,360	783,595
53+0,000	7.234.611,815	264.363,906	783,850
53+16,259 PT	7.234.608,227	264.379,764	783,951
54+0,000	7.234.607,386	264.383,409	783,970
55+0,000	7.234.602,893	264.402,898	784,070
55+17,117 PC	7.234.599,048	264.419,577	784,171
56+0,000	7.234.598,336	264.422,371	784,202
57+0,000	7.234.590,043	264.440,479	784,555
57+3,829 PT	7.234.587,827	264.443,602	784,647
57+3,830	7.234.587,827	264.443,602	784,647

Tabela 22 – Quadro de locação Alinhamento 6000 – Marginal Esquerda

Alinhamento: LOTE 6B - MARGINAL ESQUERDA 6000			
Estaca	**Norte**	**Este**	**Cota**
6000+0,000	7.234.568,425	264.411,500	
6001+0,000	7.234.564,159	264.431,040	784,349
6002+0,000	7.234.559,892	264.450,580	784,625
6002+3,263 PC	7.234.559,196	264.453,767	784,670
6003+0,000	7.234.554,958	264.469,954	784,901
6004+0,000	7.234.548,172	264.488,759	785,178
6004+0,832 PT	7.234.547,850	264.489,526	785,189
6005+0,000	7.234.540,395	264.507,185	785,454
6006+0,000	7.234.532,615	264.525,610	785,730
6006+13,255 PC	7.234.527,460	264.537,821	785,912
6007+0,000	7.234.524,636	264.543,945	786,001
6008+0,000	7.234.514,009	264.560,852	786,247
6008+5,968 PT	7.234.510,228	264.565,468	786,315

Alinhamento: LOTE 6B - MARGINAL ESQUERDA 6000			
Estaca	Norte	Este	Cota
6008+7,544 PC	7.234.509,194	264.566,657	786,333
6008+11,484 PT	7.234.506,442	264.569,474	786,376
6008+15,105 PC	7.234.503,764	264.571,911	786,415
6009+0,000	7.234.500,353	264.575,418	786,466
6009+17,178 PT	7.234.492,249	264.590,415	786,647
6010+0,000	7.234.491,468	264.593,127	786,676
6011+0,000	7.234.485,927	264.612,344	786,886
6011+6,692 PC	7.234.484,073	264.618,774	786,956
6012+0,000	7.234.481,401	264.631,797	787,096
6012+14,472 PT	7.234.480,837	264.646,240	787,247
6013+0,000	7.234.481,092	264.651,763	787,305
6013+9,108 PC	7.234.481,512	264.660,861	787,401
6014+0,000	7.234.481,316	264.671,744	787,515
6014+19,016 PT	7.234.477,660	264.690,364	787,715
6015+0,000	7.234.477,364	264.691,303	787,725
6016+0,000	7.234.471,344	264.710,375	787,935
6017+0,000	7.234.465,324	264.729,448	788,162
6018+0,000	7.234.459,305	264.748,520	788,414
6019+0,000	7.234.453,285	264.767,593	788,632
6020+0,000	7.234.447,265	264.786,666	788,815
6021+0,000	7.234.441,245	264.805,738	788,970
6022+0,000	7.234.435,225	264.824,811	789,123
6023+0,000	7.234.429,205	264.843,883	789,277
6024+0,000	7.234.423,186	264.862,956	789,431
6025+0,000	7.234.417,166	264.882,028	789,623
6026+0,000	7.234.411,146	264.901,101	789,871
6027+0,000	7.234.405,126	264.920,173	790,175
6028+0,000	7.234.399,106	264.939,246	790,497
6029+0,000	7.234.393,086	264.958,318	790,820
6030+0,000	7.234.387,067	264.977,391	791,142
6031+0,000	7.234.381,047	264.996,463	791,464
6032+0,000	7.234.375,027	265.015,536	791,786
6033+0,000	7.234.369,007	265.034,608	792,109
6034+0,000	7.234.362,987	265.053,681	792,431
6035+0,000	7.234.356,967	265.072,754	792,753
6036+0,000	7.234.350,948	265.091,826	793,076
6037+0,000	7.234.344,928	265.110,899	793,398
6038+0,000	7.234.338,908	265.129,971	793,720
6039+0,000	7.234.332,888	265.149,044	794,042
6040+0,000	7.234.326,868	265.168,116	794,346
6041+0,000	7.234.320,848	265.187,189	794,573
6042+0,000	7.234.314,829	265.206,261	794,720
6043+0,000	7.234.308,809	265.225,334	794,787
6044+0,000	7.234.302,789	265.244,406	794,774
6045+0,000	7.234.296,769	265.263,479	794,681
6046+0,000	7.234.290,749	265.282,551	794,507
6047+0,000	7.234.284,729	265.301,624	794,254
6048+0,000	7.234.278,710	265.320,697	793,920
6049+0,000	7.234.272,690	265.339,769	793,506
6050+0,000	7.234.266,670	265.358,842	793,012
6051+0,000	7.234.260,650	265.377,914	792,437
6052+0,000	7.234.254,630	265.396,987	791,783

Alinhamento: LOTE 6B - MARGINAL ESQUERDA 6000			
Estaca	Norte	Este	Cota
6053+0,000	7.234.248,610	265.416,059	791,048
6053+14,625 PC	7.234.244,208	265.430,006	790,467
6054+0,000	7.234.242,577	265.435,127	790,252
6055+0,000	7.234.236,266	265.454,105	789,452
6056+0,000	7.234.229,578	265.472,953	788,652
6057+0,000	7.234.222,515	265.491,665	787,852
6058+0,000	7.234.215,081	265.510,231	787,074
6059+0,000	7.234.207,279	265.528,646	786,487
6059+9,554 PT	7.234.203,423	265.537,387	786,288
6059+9,554 PC	7.234.203,423	265.537,387	786,288
6060+0,000	7.234.199,417	265.547,033	786,130
6061+0,000	7.234.193,201	265.566,034	786,0
6061+12,385 PT	7.234.190,334	265.578,080	786,053
6062+0,000	7.234.188,805	265.585,540	786,150
6063+0,000	7.234.184,789	265.605,133	786,642
6064+0,000	7.234.180,773	265.624,726	787,477
6065+0,000	7.234.176,757	265.644,318	788,622
6066+0,000	7.234.172,741	265.663,911	789,822
6067+0,000	7.234.168,725	265.683,504	791,022
6068+0,000	7.234.164,709	265.703,096	792,213
6069+0,000	7.234.160,693	265.722,689	793,052
6070+0,000	7.234.156,678	265.742,282	793,377
6071+0,000	7.234.152,662	265.761,874	793,612
6071+6,122 PC	7.234.151,432	265.767,871	793,709
6072+0,000	7.234.148,457	265.781,426	793,973
6073+0,000	7.234.143,511	265.800,804	794,376
6073+17,904 PT	7.234.138,429	265.817,970	794,738
6074+0,000	7.234.137,798	265.819,969	794,780
6075+0,000	7.234.131,778	265.839,042	795,184
6076+0,000	7.234.125,759	265.858,114	795,587
6077+0,000	7.234.119,739	265.877,187	795,991
6078+0,000	7.234.113,719	265.896,259	796,394
6079+0,000	7.234.107,699	265.915,332	796,770
6080+0,000	7.234.101,679	265.934,404	797,101
6081+0,000	7.234.095,659	265.953,477	797,388
6082+0,000	7.234.089,640	265.972,549	797,632
6082+1,956	7.234.089,051	265.974,415	797,655

Tabela 23 – Quadro de locação Alinhamento 2100 – Retorno Ferroeste

Alinhamento: LOTE 6B - RETORNO FERROESTE 2100			
Estaca	Norte	Este	Cota
2100+0,000	7.234.505,046	264.577,211	
2100+3,672 PC	7.234.508,023	264.579,361	786,361
2100+18,635 PT	7.234.512,454	264.592,655	786,527
2101+0,000	7.234.512,048	264.593,958	786,542
2101+19,669 PC	7.234.506,203	264.612,739	786,761
2102+0,000	7.234.506,105	264.613,054	786,764
2103+0,000	7.234.499,964	264.632,088	786,986
2104+0,000	7.234.493,443	264.650,995	787,209
2104+4,066 PT	7.234.492,070	264.654,823	787,254

Alinhamento: LOTE 6B - RETORNO FERROESTE 2100			
Estaca	Norte	Este	Cota
2104+4,164 PC	7.234.492,037	264.654,914	787,255
2105+0,000	7.234.486,780	264.669,852	787,431
2105+2,572 PT	7.234.485,949	264.672,286	787,459
2105+2,572	7.234.485,949	264.672,286	787,460

Tabela 24 – Quadro de locação Alinhamento 2200 – Taper

Alinhamento: LOTE 6B - BR-277 PISTA LESTE - TAPER 2200			
Estaca	Norte	Este	Cota
2200+0,000	7.234.353,879	265.135,363	
2201+0,000	7.234.347,859	265.154,436	793,963
2202+0,000	7.234.341,840	265.173,508	794,232
2203+0,000	7.234.335,820	265.192,581	794,457
2204+0,000	7.234.329,800	265.211,654	794,633
2205+0,000	7.234.323,780	265.230,726	794,759
2205+14,085 PI	7.234.319,540	265.244,158	794,835
2206+0,000	7.234.315,232	265.248,211	794,836
2206+5,151 PC	7.234.311,480	265.251,740	794,793
2207+0,000	7.234.302,777	265.263,666	794,758
2207+5,562 PT	7.234.300,741	265.268,836	794,632
2208+0,000	7.234.296,395	265.282,605	794,632

Tabela 25 – Quadro de locação Alinhamento 2300 – Marginal Direita

Alinhamento: LOTE 6B - MARGINAL DIREITA 2300			
Estaca	Norte	Este	Cota
2300+0,000	7.234.342,248	265.226,069	
2301+0,000	7.234.336,228	265.245,141	794,614
2302+0,000	7.234.330,209	265.264,214	794,597
2303+0,000	7.234.324,189	265.283,286	794,499
2304+0,000	7.234.318,169	265.302,359	794,321
2305+0,000	7.234.312,149	265.321,432	794,061
2306+0,000	7.234.306,129	265.340,504	793,758
2307+0,000	7.234.300,109	265.359,577	793,454
2308+0,000	7.234.294,090	265.378,649	793,150
2309+0,000	7.234.288,070	265.397,722	792,846
2309+3,300 PC	7.234.287,077	265.400,868	792,796
2310+0,000	7.234.282,720	265.416,985	792,542
2310+9,242 PT	7.234.280,892	265.426,044	792,391
2311+0,000	7.234.279,008	265.436,636	792,152
2312+0,000	7.234.275,506	265.456,327	791,520
2313+0,000	7.234.272,004	265.476,018	790,641
2314+0,000	7.234.268,502	265.495,709	789,601
2315+0,000	7.234.264,999	265.515,400	788,558
2316+0,000	7.234.261,497	265.535,091	787,517
2317+0,000	7.234.257,995	265.554,782	786,694
2317+19,627 PC	7.234.254,558	265.574,105	786,254
2318+0,000	7.234.254,492	265.574,473	786,249

Alinhamento: LOTE 6B - MARGINAL DIREITA 2300			
Estaca	Norte	Este	Cota
2319+0,000	7.234.249,953	265.593,942	786,128
2320+0,000	7.234.243,449	265.612,845	786,190
2321+0,000	7.234.235,048	265.630,986	786,448
2321+11,680 PT	7.234.229,299	265.641,151	786,689
2321+11,680 PC	7.234.229,299	265.641,151	786,689
2322+0,000	7.234.225,106	265.648,337	786,910
2323+0,000	7.234.216,004	265.666,140	787,685
2324+0,000	7.234.208,328	265.684,603	788,789
2324+12,466 PT	7.234.204,287	265.696,394	789,525
2325+0,000	7.234.202,019	265.703,579	789,970
2326+0,000	7.234.195,999	265.722,651	791,151
2327+0,000	7.234.189,979	265.741,724	792,242
2328+0,000	7.234.183,959	265.760,796	793,078
2329+0,000	7.234.177,940	265.779,869	793,656
2330+0,000	7.234.171,920	265.798,941	794,065
2331+0,000	7.234.165,900	265.818,014	794,471
2332+0,000	7.234.159,880	265.837,086	794,877
2333+0,000	7.234.153,860	265.856,159	795,283
2334+0,000	7.234.147,840	265.875,231	795,689
2335+0,000	7.234.141,821	265.894,304	796,095
2336+0,000	7.234.135,801	265.913,376	796,484
2337+0,000	7.234.129,781	265.932,449	796,827
2338+0,000	7.234.123,761	265.951,522	797,121
2339+0,000	7.234.117,741	265.970,594	797,368
2340+0,000	7.234.111,721	265.989,667	797,568
2341+0,000	7.234.105,702	266.008,739	797,719
2342+0,000	7.234.099,682	266.027,812	797,840
2343+0,000	7.234.093,662	266.046,884	797,960
2344+0,000	7.234.087,642	266.065,957	798,080
2345+0,000	7.234.081,622	266.085,029	798,20
2345+14,148	7.234.077,364	266.098,521	798,285

Tabela 26 – Quadro de locação Alinhamento 2600 – Taper

Alinhamento: LOTE 6B - BR-277 PISTA OESTE - TAPER 2600			
Estaca	Norte	Este	Cota
2600+0,000	7.234.184,672	265.743,589	
2600+10,212 PC	7.234.181,598	265.753,328	792,933
2601+0,000	7.234.177,545	265.762,210	793,319
2601+8,299 PT	7.234.172,504	265.768,784	793,589
2601+11,687 PI	7.234.170,175	265.771,245	793,684
2602+0,000	7.234.167,673	265.779,172	793,880
2603+0,000	7.234.161,653	265.798,245	794,290
2604+0,000	7.234.155,633	265.817,317	794,704
2605+0,000	7.234.149,614	265.836,390	795,121
2606+0,000	7.234.143,594	265.855,462	795,538
2607+0,000	7.234.137,574	265.874,535	795,956
2607+0,000	7.234.137,574	265.874,535	795,956

Tabela 27 – Quadro de locação PI km 575+100

Alinhamento: LOTE 6B - PI km 575+100			
Estaca	**Norte**	**Este**	**Cota**
2400+0,000	7.234.192,077	265.570,366	
2401+0,000	7.234.211,150	265.576,386	785,932
2402+0,000	7.234.230,222	265.582,406	786,032
2403+0,000	7.234.249,295	265.588,426	786,132
2403+2,093	7.234.251,291	265.589,056	786,143

1.2.2 Curvas Horizontais

Tabela 28 – Quadro de locação de Curvas Horizontais – Alinhamento 2000 – Marginal esquerda

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	N	7.236.297,370				
	E	257.871,652	120°44'39,62"			
1	N	7.236.286,085		7.231.994,225	7.236.291,510	7.236.280,622
	E	257.890,624	120°59'15,11"	255.325,463	257.881,504	257.899,721
2	N	7.236.072,363		7.235.423,837	7.236.109,660	7.236.024,517
	E	258.246,493	131°20'09,15"	257.772,508	258.184,389	258.300,886
3	N	7.235.775,528		7.237.746,506	7.235.944,464	7.235.650,863
	E	258.583,947	119°10'08,91"	259.977,026	258.391,893	258.807,291
FIM	N	7.235.280,487				
	E	259.470,840				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	N	2020+0,000						
	E							
1	N	2020+11,464	2021+12,687	179°45'24,50"	5000,0000	0°14'35,49"	10,611320	21,222608
	E							
2	N	2038+4,747	2045+9,237	169°39'05,96"	800,0000	10°20'54,3"	72,442106	144,490142
	E							
3	N	2051+10,443	2077+0,082	167°49'59,75"	2400,0000	12°10'00,24"	255,781377	509,639010
	E							
FIM	N		2115+0,000					
	E							

Tabela 29 – Quadro de locação de Curvas Horizontais – RODOVIA BR-277 – PISTA DIREITA

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS				
				CC	TE ou PC	EC	CE	ET ou PT
INÍCIO	Y	7.234.005,213						
	X	266.251,998	287°31'01,83"					
1	Y	7.234.037,848		7.235.924,888	7.234.017,635			7.234.062,312
	X	266.148,600	291°21'48,74"	266.814,625	266.212,642			266.086,058
2	Y	7.234.086,777		7.232.199,737	7.234.062,313			7.234.106,991
	X	266.023,514	287°31'01,83"	265.357,488	266.086,056			265.959,471
3	Y	7.234.595,076		7.232.140,651	7.234.524,718			7.234.622,890

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS				
				CC	TE ou PC	EC	CE	ET ou PT
	X	264.413,080	276°50'01,56"	263.883,514	264.635,993			264.180,987
4	Y	-						
	X	-	276°53'40,97"					
5	Y	7.234.911,184		7.233.916,052	7.234.884,674	7.234.890,264	7.234.864,475	7.234.851,330
	X	261.778,769	254°16'13,47"	261.855,643	261.998,001	261.948,215	261.614,495	261.566,255
6	Y	7.234.614,680		7.235.251,502	7.234.690,442	7.234.672,798	7.234.717,753	7.234.750,576
	X	260.726,012	299°05'45,85"	260.800,632	260.995,009	260.927,281	260.543,631	260.481,816
FIM	Y	7.234.762,335						
	X	260.460,685						

CURVA Nº		ESTACA				Deflexão
		INICIAL/TE/PC	EC	CE	ET/PT/FIM	
INÍCIO	Y	28723+10,000				
	X					
1	Y	28725+11,270			28732+5,532	176°09'13,18"
	X					
2	Y	28732+5,535			28738+19,797	176°09'13,14"
	X					
3	Y	28808+7,634			28831+13,785	169°18'59,72"
	X					
4	Y	28933+10,000				
	X					
5	Y	28941+12,412	28944+2,512	28960+18,881	28963+8,881	135°10'27,62"
	X					
6	Y	28993+2,351	28996+12,351	29016+5,818	29019+15,818	157°22'32,49"
	X					
FIM	Y				29021+0,000	
	X					

CURVA Nº		Curva de Transição							Curva Circular			
		Lc	Ang. Espiral	Xc	Yc	TI	Tc	Ts	R	Ac	T	D
INÍCIO	Y											
	X											
1	Y								2.000,000	3°50'46,81"	67,156	134,262
	X											
2	Y								2.000,000	3°50'46,85"	67,157	134,263
	X											
3	Y								2.500,000	10°41'00,27"	233,753	466,152
	X											
4	Y											
	X											
5	Y	70,000	3°23'06,47"	69,976	1,378	46,675	23,341	23,260	592,400	38°03'19,42"	204,300	393,467
	X	70,000	3°23'06,47"	69,976	1,378	46,675	23,341	23,260				
6	Y	50,100	1°27'59,92"	50,097	0,427	33,401	16,701	16,690	978,600	19°41'38,19"	169,860	336,368
	X	50,000	1°27'49,38"	49,997	0,426	33,334	16,668	16,657				
FIM	Y											
	X											

Tabela 30 – Quadro de locação de Curvas Horizontais – RODOVIA BR-277 – ESQUERDA

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS				
				CC	TE ou PC	EC	CE	ET ou PT
INÍCIO	Y	7.234.088,771						
	X	265.987,262	287°31'01,83"					
1	Y	7.234.577,479		7.232.123,054	7.234.507,121			7.234.605,293
	X	264.438,898	276°50'01,56"	263.909,332	264.661,811			264.206,805
2	Y	-						
	X	-	277°06'33,67"					
3	Y	-						
	X	-	276°53'21,13"					
4	Y	7.234.898,220		7.233.935,838	7.234.872,516	7.234.878,076	7.234.853,256	7.234.840,126
	X	261.766,013	254°16'13,47"	261.840,405	261.978,758	261.929,070	261.607,989	261.559,745
5	Y	7.234.604,990		7.235.251,497	7.234.681,759	7.234.664,096	7.234.709,853	7.234.742,694
	X	260.724,876	299°05'46,12"	260.800,632	260.997,453	260.929,729	260.539,237	260.477,431
FIM	Y	7.234.754,344						
	X	260.456,496						

CURVA Nº		ESTACA				Deflexão
		INICIAL/TE/PC	EC	CE	ET/PT/FIM	
INÍCIO	Y	28737+7,664				
	X					
1	Y	28806+17,569			28830+3,721	169°18'59,72"
	X					
2	Y	28933+0,000				
	X					
3	Y	28933+7,664				
	X					
4	Y	28942+7,736	28944+17,736	28961+1,349	28963+11,349	135°10'27,35"
	X					
5	Y	28992+15,517	28996+5,517	29016+6,042	29019+16,042	157°22'52,34"
	X					
FIM	Y				29020+20,000	
	X					

CURVA Nº		Curva de Transição							Curva Circular			
		Lc	Ang. Espiral	Xc	Yc	TI	Tc	Ts	R	Ac	T	D
INÍCIO	Y											
	X											
1	Y								2.500,000	10°41'00,27"	233,753	466,152
	X											
2	Y											
	X											
3	Y											
	X											
4	Y	70,000	3°20'03,70"	69,976	1,358	46,675	23,341	23,262	601,420	38°09'25,23"	208,008	400,525
	X	70,000	3°20'03,70"	69,976	1,358	46,675	23,341	23,262				
5	Y	50,000	1°30'48,66"	49,997	0,440	33,335	16,668	16,656	946,400	19°35'30,31"	163,402	323,613
	X	50,000	1°30'48,66"	49,997	0,440	33,335	16,668	16,656				
FIM	Y											
	X											

Tabela 31 – Quadro de locação de Curvas Horizontais – RODOVIA PR-180 – EIXO

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS				
				CC	TE ou PC	EC	CE	ET ou PT
INÍCIO	Y	7.234.075,748						
	X	260.441,233	3°13'50,29"					
1	Y	7.234.273,752		7.234.121,384	7.234.077,388	7.234.190,982	7.234.300,953	7.234.358,917
	X	260.452,410	64°20'26,49"	260.680,139	260.441,326	260.457,148	260.530,726	260.629,691

2	Y	7.234.423,864		7.234.596,679	7.234.359,145	7.234.417,110	7.234.460,000	7.234.562,725
	X	260.764,886	21°42'24,21"	260.579,718	260.630,165	260.729,130	260.769,159	260.820,164
FIM	Y	7.234.592,907						
	X	260.832,179						

CURVA Nº		ESTACA				Deflexão
		INICIAL/TE/PC	EC	CE	ET/PT/FIM	
INÍCIO	Y	4000+0,000				
	X					
1	Y	4000+1,643	4005+16,643	4012+10,794	4018+5,794	118°53'23,80"
	X					
2	Y	4018+6,320	4024+1,320	4027+0,143	4032+15,143	137°21'57,71"
	X					
FIM	Y				4034+7,629	
	X					

CURVA Nº		Curva de Transição							Curva Circular			
		Lc	Ang. Espiral	Xc	Yc	TI	Tc	Ts	R	Ac	T	D
INÍCIO	Y											
	X											
1	Y	115,000	14°06'11,51"	114,305	9,395	76,911	38,556	36,194	233,600	32°54'13,16"	68,982	134,151
	X	115,000	14°06'11,51"	114,305	9,395	76,911	38,556	36,194				
2	Y	115,000	14°06'11,51"	114,305	9,395	76,911	38,556	36,194	233,600	14°25'39,24"	29,568	58,822
	X	115,000	14°06'11,51"	114,305	9,395	76,911	38,556	36,194				
FIM	Y											
	X											

Tabela 32 – Quadro de locação de Curvas Horizontais – Alinhamento 600

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.714,176				
	X	260.808,049	202°13'41,64"			
1	Y	7.234.704,574		7.234.721,741	7.234.714,176	7.234.702,250
	X	260.804,125	257°03'08,90"	260.789,536	260.808,049	260.794,017
2	Y	7.234.673,521		7.234.987,047	7.234.694,674	7.234.708,870
	X	260.669,056	291°59'16,73"	260.693,845	260.761,063	260.581,516
3	Y	7.234.718,094		7.235.251,500	7.234.708,870	7.234.729,204
	X	260.558,675	296°48'35,48"	260.800,632	260.581,516	260.536,689
4	Y	-				
	X	-	295°38'55,58"			
FIM	Y	7.234.761,757				
	X	260.469,128				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	600+0,000						
	X							
1	Y	600+0,000	600+19,137	125°10'32,83"	20,000	54°49'27,16"	10,372	19,137
	X							
2	Y	602+12,951	611+15,878	145°03'48,36"	300,000	34°56'11,63"	94,407	182,927
	X							
3	Y	611+15,878	614+5,117	175°10'45,5"	585,200	4°49'14,94"	24,634	49,238
	X							
4	Y	614+10,117						
	X							
FIM	Y		618+0,112					

	X							

Tabela 33 – Quadro de locação de Curvas Horizontais – Alinhamento 700

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.690,242				
	X	260.565,243	112°45'10,56"			
1	Y	7.234.637,294		7.235.017,658	7.234.648,786	7.234.629,977
	X	260.691,491	104°15'23,73"	260.818,794	260.664,091	260.720,288
2	Y	7.234.601,644		7.234.577,202	7.234.611,608	7.234.564,057
	X	260.831,798	201°43'56,48"	260.783,840	260.792,582	260.816,816
FIM	Y	7.234.564,057				
	X	260.816,816				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	700+0,000						
	X							
1	Y	705+7,189	708+6,505	171°30'13,17"	400,000	8°29'46,82"	29,712	59,316
	X							
2	Y	712+1,096	715+1,490	82°31'27,26"	35,500	97°28'32,73"	40,462	60,394
	X							
FIM	Y		715+1,491					
	X							

Tabela 34 – Quadro de locação de Curvas Horizontais – Alinhamento 800

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.727,367				
	X	261.055,660	254°16'13,47"			
1	Y	7.234.711,138		7.235.006,830	7.234.718,064	7.234.708,470
	X	260.998,036	264°00'21,66"	260.941,299	261.022,629	260.972,627
2	Y	7.234.703,724		7.235.004,900	7.234.706,540	7.234.705,737
	X	260.927,429	274°16'50,19"	260.922,926	260.954,253	260.900,534
3	Y	7.234.708,790		7.234.727,959	7.234.708,015	7.234.717,690
	X	260.859,753	329°06'17,49"	260.871,590	260.870,097	260.854,428
FIM	Y	7.234.717,690				
	X	260.854,428				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	800+0,000						
	X							
1	Y	801+14,316	804+5,292	170°15'51,81"	300,000	9°44'08,18"	25,549	50,976
	X							
2	Y	805+3,766	807+17,564	169°43'31,46"	300,000	10°16'28,53"	26,971	53,798
	X							
3	Y	809+8,086	810+7,223	125°10'32,83"	20,000	54°49'27,16"	10,372	19,137
	X							
FIM	Y		810+7,223					
	X							

Tabela 35 – Quadro de locação de Curvas Horizontais – Alinhamento 900

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.601,733				
	X	260.863,220	11°20'13,96"			
1	Y	7.234.611,903		7.234.597,801	7.234.601,733	7.234.616,095
	X	260.865,259	66°09'41,17"	260.882,829	260.863,220	260.874,746
2	Y	7.234.634,750		7.234.170,442	7.234.627,786	7.234.640,612
	X	260.916,965	70°06'32,2"	261.103,285	260.901,204	260.933,168
3	Y	7.234.710,811		7.234.091,585	7.234.702,807	7.234.717,195
	X	261.127,185	74°15'16,7"	261.326,215	261.105,063	261.149,827
4	Y	-				
	X	-	71°19'36,76"			
FIM	Y	7.234.739,868				
	X	261.217,052				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	900+0,000						
	X							
1	Y	900+0,000	900+19,137	125°10'32,83"	20,000	54°49'27,16"	10,372	19,137
	X							
2	Y	902+8,063	904+2,511	176°03'09,14"	500,000	3°56'50,85"	17,231	34,448
	X							
3	Y	913+5,312	915+12,342	175°51'15,95"	650,000	4°08'44,4"	23,525	47,030
	X							
4	Y	915+13,195						
	X							
FIM	Y		919+3,288					
	X							

Tabela 36 – Quadro de locação de Curvas Horizontais – Alinhamento 5000 – Marginal Direita

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS				
				CC	TE ou PC	EC	CE	ET ou PT
INÍCIO	Y	7.234.887,523						
	X	261.710,863	261°13'16,36"					
1	Y	7.234.879,873		7.233.921,888	7.234.886,666			7.234.869,107
	X	261.661,329	256°00'02,25"	261.854,302	261.705,313			261.618,145
2	Y	-						
	X	-	260°23'53,93"					
3	Y	7.234.858,042		7.234.613,776	7.234.860,274			7.234.854,414
	X	261.552,830	254°16'13,47"	261.607,724	261.566,024			261.539,949
FIM	Y	7.234.713,282						
	X	261.038,849						

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	5000+0,000						
	X							
1	Y	5000+5,616	5004+14,565	173°52'19,53"	250,000	6°07'40,46"	13,382	26,738
	X							
2	Y	5004+14,764						
	X							
3	Y	5007+7,430	5008+14,168	174°46'45,89"	976,214	5°13'14,10"	44,505	88,949
	X							
FIM	Y		5034+14,764					

	X							

Tabela 37 – Quadro de locação de Curvas Horizontais – Retorno km 579

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS				
				CC	TE ou PC	EC	CE	ET ou PT
INÍCIO	Y	7.234.879,110						
	X	261.953,709	93°55'52,3"					
1	Y	-						
	X	-	96°53'21,13"					
2	Y	7.234.869,508		7.234.906,391	7.234.870,651			7.234.873,198
	X	262.063,679	67°13'38,69"	262.058,534	262.054,216			262.072,469
3	Y	-		7.234.884,267	7.234.873,203			7.234.895,761
	X	-	286°41'39,43"	262.067,836	262.072,481			262.071,283
4	Y	7.234.886,152		7.234.861,283	7.234.895,765			7.234.897,005
	X	262.103,327	262°53'05,54"	262.060,929	262.071,271			262.056,470
FIM	Y	7.234.891,148						
	X	262.009,548						

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	30+0,000						
	X							
1	Y	33+10,891						
	X							
2	Y	35+0,891	35+19,528	150°20'17,56"	36,000	29°39'42,43"	9,532	18,637
	X							
3	Y	35+19,541	37+8,974	39°28'00,73"	12,000	140°31'59,26"	33,453	29,433
	X							
4	Y	37+8,988	38+3,948	156°11'26,11"	36,000	23°48'33,88"	7,589	14,960
	X							
FIM	Y		40+11,234					
	X							

Tabela 38 – Quadro de locação de Curvas Horizontais - Alinhamento 1100 – Marginal Esquerda

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.841,634				
	X	262.204,422	96°50'01,56"			
1	Y	7.234.829,213		7.234.707,507	7.234.830,229	7.234.827,041
	X	262.308,066	104°44'13,58"	262.284,881	262.299,588	262.316,323
2	Y	7.234.814,817		7.234.525,064	7.234.818,677	7.234.809,513
	X	262.362,796	110°27'35,43"	262.270,890	262.348,121	262.377,013
3	Y	7.234.803,787		7.234.818,836	7.234.804,876	7.234.803,959
	X	262.392,361	86°49'54,86"	262.394,649	262.389,441	262.395,473
4	Y	7.234.806,592		7.234.652,484	7.234.805,849	7.234.804,992
	X	262.443,041	96°50'01,56"	262.438,109	262.429,620	262.456,386
5	Y	7.234.762,884		7.234.885,196	7.234.764,162	7.234.763,490
	X	262.807,759	86°45'45,97"	262.811,599	262.797,094	262.818,482
6	Y	7.234.764,950		7.234.610,831	7.234.764,186	7.234.763,340
	X	262.844,299	96°50'01,56"	262.839,460	262.830,787	262.857,737
FIM	Y	7.234.750,250				
	X	262.966,966				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	1100+0,000						
	X							
1	Y	1104+15,847	1105+12,896	172°05'47,98"	123,600	7°54'12,1"	8,538	17,049
	X							
2	Y	1107+5,776	1108+16,099	174°16'38,14"	303,600	5°43'21,85"	15,174	30,324
	X							
3	Y	1109+9,364	1109+15,508	156°22'19,42"	14,900	23°37'40,57"	3,117	6,145
	X							
4	Y	1111+9,708	1112+16,521	169°59'53,29"	153,600	10°00'06,70"	13,441	26,813
	X							
5	Y	1129+19,667	1131+1,094	169°55'44,40"	121,900	10°04'15,59"	10,741	21,427
	X							
6	Y	1131+13,418	1133+0,416	169°55'44,40"	153,600	10°04'15,59"	13,534	26,999
	X							
FIM	Y		1138+10,427					
	X							

Tabela 39 – Quadro de locação de Curvas Horizontais - Alinhamento 1200 – Taper e Retorno

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.806,731				
	X	262.391,572	290°08'34,12"			
1	Y	7.234.826,279		7.234.818,836	7.234.811,891	7.234.834,516
	X	262.371,675	96°50'01,56"	262.394,649	262.377,502	262.384,832
FIM	Y	7.234.810,816				
	X	262.582,601				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	1200+0,000						
	X							
1	Y	1200+14,986	1202+0,816	100°00'08,45"	18,500	79°59'51,54"	15,523	25,830
	X							
FIM	Y		1212+0,000					
	X							

Tabela 40 – Quadro de locação de Curvas Horizontais - Alinhamento 1300 – Agulha de acesso

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.760,472				
	X	263.063,202	96°50'01,56"			
1	Y	7.234.738,668		7.234.799,912	7.234.740,338	7.234.743,353
	X	263.245,140	70°30'03,64"	263.238,343	263.231,204	263.258,370
2	Y	7.234.751,460		7.234.669,802	7.234.745,214	7.234.749,234
	X	263.281,266	96°50'01,56"	263.290,328	263.263,625	263.299,847
FIM	Y	7.234.747,666				
	X	263.312,929				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	1300+0,000						

	X							
1	Y	1308+9,204	1309+16,779	153°40'02,8"	60,000	26°19'57,91"	14,036	27,576
	X							
2	Y	1310+2,354	1311+19,121	153°40'02,8"	80,000	26°19'57,91"	18,714	36,767
	X							
FIM	Y		1312+12,296					
	X							

Tabela 41 – Quadro de locação de Curvas Horizontais - Alinhamento 1400 – Agulha de acesso

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.741,392				
	X	263.365,278	96°50'01,52"			
1	Y	7.234.739,612		7.234.678,344	7.234.741,392	7.234.731,389
	X	263.380,132	123°20'47,32"	263.357,723	263.365,278	263.392,628
2	Y	7.234.718,678		7.234.776,570	7.234.726,448	7.234.716,996
	X	263.411,945	96°50'01,56"	263.433,119	263.400,137	263.425,979
FIM	Y	7.234.705,737				
	X	263.519,934				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	1400+0,000						
	X							
1	Y	1400+0,000	1401+9,384	153°29'14,24"	63,500	26°30'45,75"	14,960	29,383
	X							
2	Y	1401+18,372	1403+6,136	153°29'14,24"	60,000	26°30'45,75"	14,135	27,764
	X							
FIM	Y		1408+0,762					
	X							

Tabela 42 – Quadro de locação de Curvas Horizontais - Alinhamento 1700 – Agulha de acesso

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.637,907				
	X	264.085,935	96°50'01,56"			
1	Y	7.234.621,801		7.232.140,651	7.234.626,464	7.234.615,923
	X	264.220,324	98°37'38,6"	263.883,514	264.181,415	264.259,067
2	Y	7.234.613,813		7.234.678,803	7.234.615,922	7.234.617,761
	X	264.272,976	73°41'33,98"	264.268,613	264.259,073	264.286,472
FIM	Y	7.234.622,202				
	X	264.301,651				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	1700+0,000						
	X							
1	Y	1704+16,164	1708+14,531	178°12'23,50"	2503,600	1°47'36,49"	39,187	78,368
	X							
2	Y	1708+14,537	1710+2,215	155°03'55,91"	63,600	24°56'04,8"	14,062	27,678
	X							

FIM	Y		1710+18,031					
	X							

Tabela 43 – Quadro de locação de Curvas Horizontais - Alinhamento 1200 – Taper e Retorno

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.806,731				
	X	262.391,572	290°08'34,12"			
1	Y	7.234.826,279		7.234.818,836	7.234.811,891	7.234.834,516
	X	262.371,675	96°50'01,56"	262.394,649	262.377,502	262.384,832
FIM	Y	7.234.810,816				
	X	262.582,601				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	1200+0,000						
	X							
1	Y	1200+14,986	1202+0,816	100°00'08,45"	18,500	79°59'51,54"	15,523	25,830
	X							
FIM	Y		1212+0,000					
	X							

Tabela 44 – Quadro de locação de Curvas Horizontais - Alinhamento 0050 – Marginal Show Rural

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS				
				CC	TE ou PC	EC	CE	ET ou PT
INÍCIO	Y	7.234.747,666						
	X	263.312,929	96°50'01,56"					
1	Y	7.234.632,360		7.232.659,352	7.234.645,143			7.234.608,227
	X	264.275,086	102°58'58,6"	263.930,447	264.168,425			264.379,764
2	Y	7.234.596,002		7.234.537,171	7.234.599,048			7.234.587,827
	X	264.432,787	127°05'08,26"	264.405,311	264.419,577			264.443,602
FIM	Y	7.234.587,827						
	X	264.443,602						

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	0+0,000						
	X							
1	Y	43+1,617	53+16,259	173°51'03,50"	2000,000	6°08'56,49"	107,424	214,642
	X							
2	Y	55+17,117	57+3,829	155°53'49,56"	63,499	24°06'10,43"	13,557	26,713
	X							
FIM	Y		57+3,830					
	X							

Tabela 45 – Quadro de locação de Curvas Horizontais - Alinhamento 6000 – Marginal Esquerda

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.568,425				
	X	264.411,500	102°19'02,24"			
1	Y	7.234.555,177		7.234.360,283	7.234.559,196	7.234.547,850
	X	264.472,172	112°53'23,5"	264.410,334	264.453,767	264.489,526
2	Y	7.234.521,044		7.234.432,018	7.234.527,460	7.234.510,228
	X	264.553,016	130°58'53,23"	264.497,525	264.537,821	264.565,468
3	Y	7.234.507,901		7.234.483,829	7.234.509,194	7.234.506,442
	X	264.568,146	137°42'00,63"	264.544,622	264.566,657	264.569,474
4	Y	7.234.495,387		7.234.530,684	7.234.503,764	7.234.492,249
	X	264.579,533	106°04'58,39"	264.601,496	264.571,911	264.590,415
5	Y	7.234.480,191		7.234.565,747	7.234.484,073	7.234.480,837
	X	264.632,240	87°21'26,1"	264.642,321	264.618,774	264.646,240
6	Y	7.234.482,208		7.234.396,602	7.234.481,512	7.234.477,660
	X	264.675,955	107°31'01,83"	264.664,780	264.660,861	264.690,364
7	Y	7.234.226,893		7.233.287,148	7.234.244,208	7.234.203,423
	X	265.484,866		265.127,931	265.430,006	265.537,387
8	Y	7.234.194,651		7.234.382,734	7.234.203,423	7.234.190,334
	X	265.557,017	114°06'35,56"	265.617,516	265.537,387	265.578,080
9	Y	-				
	X	-	101°35'00,11"			
10	Y	7.234.146,229		7.233.661,616	7.234.151,432	7.234.138,429
	X	265.793,258	107°31'01,83"	265.667,474	265.767,871	265.817,970
FIM	Y	7.234.089,051				
	X	265.974,415				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	6000+0,000						
	X							
1	Y	6002+3,263	6004+0,832	161°16'27,62"	85,000	18°43'32,37"	14,015	27,780
	X							
2	Y	6006+13,255	6008+5,968	159°50'24,17"	85,000	20°09'35,82"	15,110	29,908
	X							
3	Y	6008+7,544	6008+11,484	173°26'19,37"	1003,600	6°33'40,62"	57,527	114,928
	X							
4	Y	6008+15,105	6009+17,178	167°30'17,65"	196,400	12°29'42,34"	21,501	42,831
	X							
5	Y	6011+6,692	6012+14,472	174°03'58,27"	500,000	5°56'01,72"	25,914	51,782
	X							
6	Y	6013+9,108	6014+19,016	169°25'39,18"	203,600	10°34'20,81"	18,838	37,569
	X							
7	Y	6053+14,625	6059+9,554	161°54'29,82"	103,600	18°05'30,17"	16,494	32,713
	X							
8	Y	6059+9,554	6061+12,385	148°22'57,75"	40,000	31°37'02,24"	11,325	22,073
	X							
9	Y	6059+9,554						
	X							
10	Y	6071+6,122	6073+17,904	173°16'52,59"	33,600	6°43'07,40"	1,972	3,940
	X							
FIM	Y		6082+1,956					
	X							

Tabela 46 – Quadro de locação de Curvas Horizontais - Alinhamento 2100 – Retorno Ferroeste

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.505,046				
	X	264.577,211	35°50'32,40"			
1	Y	7.234.515,019		7.234.500,996	7.234.508,023	7.234.512,454
	X	264.584,415	107°17'16,63"	264.589,089	264.579,361	264.592,655
2	Y	7.234.499,605		7.233.554,244	7.234.506,203	7.234.492,070
	X	264.633,938	109°50'21,77"	264.316,456	264.612,739	264.654,823
3	Y	7.234.488,913		7.235.435,441	7.234.492,037	7.234.485,949
	X	264.663,572	108°47'15,79"	264.995,293	264.654,914	264.672,286
FIM	Y	7.234.485,949				
	X	264.672,286				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	2100+0,000						
	X							
1	Y	2100+3,672	2100+18,635	108°33'15,76"	12,000	71°26'44,23"	8,630	14,964
	X							
2	Y	2101+19,669	2104+4,066	177°26'54,86"	997,000	2°33'05,13"	22,202	44,397
	X							
3	Y	2104+4,164	2105+2,572	178°56'54,26"	1002,930	1°03'05,73"	9,204	18,408
	X							
FIM	Y		2105+2,572					
	X							

Tabela 47 – Quadro de locação de Curvas Horizontais - Alinhamento 2200 – Taper

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.353,879				
	X	265.135,363	107°31'01,83"			
1	Y	-				
	X	-	136°45'12,69"			
2	Y	7.234.303,881		7.234.338,886	7.234.311,480	7.234.300,741
	X	265.258,887	107°31'01,84"	265.280,876	265.251,740	265.268,836
FIM	Y	7.234.296,395				
	X	265.282,605				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	2200+0,000						
	X							
1	Y	2205+14,085						
	X							
2	Y	2206+5,151	2207+5,562	150°45'49,14"	40,000	29°14'10,85"	10,433	20,411
	X							
FIM	Y		2208+0,000					
	X							

Tabela 48 – Quadro de locação de Curvas Horizontais - Alinhamento 2300 – Marginal Direita

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.342,248				
	X	265.226,069	107°31'01,83"			
1	Y	7.234.283,167		7.234.477,802	7.234.287,077	7.234.280,892
	X	265.413,256	100°05'06,54"	265.461,067	265.400,868	265.426,044
2	Y	7.234.248,177		7.234.062,079	7.234.254,558	7.234.229,299
	X	265.609,982		265.539,871	265.574,105	265.641,151
3	Y	7.234.213,478		7.234.446,984	7.234.229,299	7.234.204,287
	X	265.667,272	121°12'08,4"	265.772,996	265.641,151	265.696,394
4	Y	-				
	X	-	107°31'01,83"			
FIM	Y	7.234.077,364				
	X	266.098,521				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	2300+0,000						
	X							
1	Y	2309+3,300	2310+9,242	172°34'04,70"	200,000	7°25'55,29"	12,990	25,943
	X							
2	Y	2317+19,627	2321+11,680	158°52'59,16"	195,500	21°07'00,83"	36,440	72,053
	X							
3	Y	2321+11,680	2324+12,466	166°18'54,46"	254,500	13°41'05,53"	30,538	60,786
	X							
4	Y	2321+11,680						
	X							
FIM	Y		2345+14,148					
	X							

Tabela 49 – Quadro de locação de Curvas Horizontais - Alinhamento 2600 – Taper

CURVA Nº		COORDENADAS PI	AZIMUTE	COORDENADAS		
				CC	TE ou PC	ET ou PT
INÍCIO	Y	7.234.184,672				
	X	265.743,589	107°31'01,83"			
1	Y	7.234.178,829		7.234.143,453	7.234.181,598	7.234.172,504
	X	265.762,102	133°25'25,35"	265.741,288	265.753,328	265.768,784
2	Y	-				
	X	-	107°31'01,83"			
FIM	Y	7.234.137,574				
	X	265.874,535				

CURVA Nº		ESTACA		Deflexão	Curva Circular			
		INICIAL/TE/PC	ET/PT/FIM		R	Ac	T	D
INÍCIO	Y	2600+0,000						
	X							
1	Y	2600+10,212	2601+8,299	154°05'36,48"	40,000	25°54'23,51"	9,200	18,086
	X							
2	Y	2601+11,687						
	X							
FIM	Y		2607+0,000					
	X							

1.2.3 Curvas Verticais

Tabela 50 – Quadro de locação de Curvas Verticais – Alinhamento 2000 – Marginal esquerda

PIV Nº	Ponto	Estaca	Cota	Declividade	Comprimento		Constante K	
					L1	L2	K1	K2
1	Inicial	2020+00,00	772,050					
2	PCV	2031+03,00	775,418	1,51%	10,000	10,000	19,804	19,804
	PIV	2031+13,00	775,570					
	PTV	2032+03,00	775,619	0,50%				
3	PCV	2032+16,00	775,785		50,000	50,000	36,198	36,198
	PIV	2036+06,00	776,030					
	PTV	2038+16,00	774,903	-2,26%				
4	PCV	2045+16,00	771,735		20,000	20,000	10,778	10,778
	PIV	2046+16,00	771,280					
	PTV	2047+16,00	770,088	-5,97%				
5	PCV	2048+00,00	769,849		40,000	40,000	7,184	7,184
	PIV	2050+00,00	767,460					
	PTV	2052+00,00	769,524	5,16%				
6	PCV	2057+05,00	774,945		65,000	65,000	48,351	48,351
	PIV	2060+02,50	777,910					
	PTV	2063+00,00	779,514	2,78%				
7	PCV	2063+15,00	779,931		0,000	0,000	48,193	48,193
	PIV	2067+00,00	781,460					
	PTV	2069+05,00	781,738	0,50%				
8	PCV	2077+00,00	782,515		0,000	0,000	94,382	94,382
	PIV	2080+05,00	782,840					
	PTV	2084+00,00	782,272	-0,88%				
9	PCV	2088+04,50	781,444		0,000	0,000	86,766	86,766
	PIV	2091+07,00	780,900					
	PTV	2094+09,50	779,448	-2,32%				
10	PCV	2108+12,40	772,895		0,000	0,000	24,044	24,044
	PIV	2110+12,40	771,970					
	PTV	2112+12,40	769,710	-0,0564				
11	Final	2115+00,00	767,020					

Tabela 51 – Quadro de locação de Curvas Verticais – Rodovia BR-277 – Pista Direita

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	574+470.00	798,823		0,69%					
2	574+590.00	799,655	0,69%	-1,13%	1,82%	Convexa	160,000	87,757	8.775,726
3	574+830.00	796,943	-1,13%	-2,16%	1,03%	Convexa	160,000	155,263	15.526,307
4	574+996.00	793,357	-2,16%	-0,50%	1,66%	Côncava	72,000	43,367	4.336,714
5	575+300.00	791,837	-0,50%	1,55%	2,05%	Côncava	100,000	48,899	4.889,911
6	575+520.00	795,236	1,55%	-1,30%	2,85%	Convexa	160,000	56,169	5.616,947
7	576+100.00	787,676	-1,30%	-1,10%	0,20%	Côncava	60,000	297,780	29.778,021

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
8	576+510.00	783,158	-1,10%	-2,83%	1,73%	Convexa	160,000	92,670	9.267,013
9	576+800.00	774,955	-2,83%	1,44%	4,27%	Côncava	245,000	57,403	5.740,278
10	577+143.00	779,893	1,44%	-1,61%	3,05%	Convexa	220,000	72,227	7.222,736
11	577+425.00	775,363	-1,61%	-0,59%	1,01%	Côncava	80,000	78,921	7.892,097
12	577+796.50	773,161	-0,59%	3,56%	4,15%	Côncava	150,000	36,147	3.614,706
13	578+062.50	782,622	3,56%	-0,98%	4,54%	Convexa	195,000	42,971	4.297,134
14	578+806.50	775,324	-0,98%	-0,52%	0,46%	Côncava	50,000	108,951	10.895,127
15	579+015.50	774,233	-0,52%	2,43%	2,95%	Côncava	210,000	71,088	7.108,791
16	579+268.00	780,374	2,43%	2,35%	0,08%	Convexa	50,000	619,664	61.966,401
17	579+753.50	791,79	2,35%	-0,74%	3,09%	Convexa	390,000	126,293	12.629,319
18	580+134.00	788,987	-0,74%	-1,03%	0,29%	Convexa	30,000	103,417	10.341,736
19	580+182.60	788,488	-1,03%	-1,10%	0,07%	Convexa	45,000	613,882	61.388,219
20	580+371.50	786,41	-1,10%	-0,88%	0,22%	Côncava	55,000	250,409	25.040,912
21	580+420.00	785,983	-0,88%						

Tabela 52 – Quadro de locação de Curvas Verticais – Rodovia BR-277 – Pista Esquerda

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	574+747.66	797,898		-1,09%					
2	574+824.36	797,061	-1,09%	-2,17%	1,07%	Convexa	153,000	142,344	14.234,415
3	574+995.17	793,361	-2,17%	-0,50%	1,67%	Côncava	80,000	48,011	4.801,103
4	575+301.17	791,831	-0,50%	1,54%	2,04%	Côncava	100,000	49,005	4.900,535
5	575+520.00	795,202	1,54%	-1,29%	2,83%	Convexa	130,000	45,919	4.591,856
6	576+116.28	787,507	-1,29%	-1,10%	0,19%	Côncava	20,000	106,497	10.649,656
7	576+267.66	785,838	-1,10%	-1,32%	0,22%	Convexa	60,000	271,221	27.122,136
8	576+497.66	782,793	-1,32%	-2,63%	1,31%	Convexa	120,000	91,764	9.176,367
9	576+797.66	774,898	-2,63%	1,26%	3,89%	Côncava	200,000	51,392	5.139,228
10	577+147.66	779,308	1,26%	-1,50%	2,76%	Convexa	220,000	79,710	7.971,014
11	577+407.66	775,408	-1,50%	-0,65%	0,85%	Côncava	60,000	70,588	7.058,824
12	577+787.66	772,938	-0,65%	3,50%	4,15%	Côncava	180,000	43,373	4.337,349
13	578+067.66	782,738	3,50%	-1,10%	4,60%	Convexa	200,000	43,478	4.347,826
14	578+467.66	778,338	-1,10%	-0,94%	0,16%	Côncava	60,000	375,000	37.500,000
15	578+667.66	776,458	-0,94%	-0,89%	0,05%	Côncava	50,000	918,903	91.890,345
16	578+802.48	775,264	-0,89%	-0,63%	0,25%	Côncava	50,000	198,162	19.816,242
17	579+009.88	773,951	-0,63%	2,49%	3,13%	Côncava	205,000	65,535	6.553,528
18	579+310.88	781,46	2,49%	2,36%	0,13%	Convexa	50,000	375,540	37.554,002
19	579+760.01	792,067	2,36%	-0,73%	3,09%	Convexa	350,000	113,297	11.329,717
20	580+185.00	788,975	-0,73%	-1,28%	0,55%	Convexa	120,000	218,875	21.887,547
21	580+344.11	786,945	-1,28%	-1,02%	0,26%	Côncava	50,000	194,008	19.400,835
22	580+420.00	786,172	-1,02%						

Tabela 53 – Quadro de locação de Curvas Verticais – Rodovia PR-180 – Eixo

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	80+000.00	795,195		-0,66%					
2	80+230.00	793,683	-0,66%	-1,69%	1,03%	Convexa	60,000	58,160	5.815,961
3	80+458.00	789,832	-1,69%	-4,40%	2,72%	Convexa	70,000	25,780	2.578,031
4	80+598.00	783,666	-4,40%	-2,00%	2,40%	Côncava	72,000	29,946	2.994,640

5	80+687.63	781,873	-2,00%						

Tabela 54 – Quadro de locação de Curvas Verticais – Alinhamento 600

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	12+000.00	782,137		-3,06%					
2	12+029.90	781,223	-3,06%	7,44%	10,49%	Côncava	36,000	3,431	343,071
3	12+119.00	787,849	7,44%	-0,72%	8,15%	Convexa	41,500	5,090	509,025
4	12+145.57	787,659	-0,72%						

Tabela 55 – Quadro de locação de Curvas Verticais – Alinhamento 700

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	14+000.00	787,701		1,01%					
2	14+127.00	788,98	1,01%	-7,18%	8,19%	Convexa	53,000	6,473	647,317
3	14+228.00	781,728	-7,18%	1,01%	8,19%	Côncava	54,000	6,596	659,647
4	14+270.17	782,152	1,01%						

Tabela 56 – Quadro de locação de Curvas Verticais – Alinhamento 800

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	16+000.00	789,85		1,35%					
2	16+057.09	790,622	1,35%	-8,00%	9,35%	Convexa	39,000	4,171	417,060
3	16+173.48	781,312	-8,00%	2,23%	10,23%	Côncava	40,600	3,968	396,798
4	16+196.01	781,815	2,23%						

Tabela 57 – Quadro de locação de Curvas Verticais – Alinhamento 900

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	18+000.00	781,982		-2,82%					
2	18+032.40	781,067	-2,82%	7,42%	10,24%	Côncava	41,313	4,033	403,310
3	18+165.41	790,937	7,42%	-0,50%	7,92%	Convexa	62,000	7,827	782,743
4	18+294.92	790,289	-0,50%	-1,68%	1,18%	Convexa	114,000	96,598	9.659,812
5	18+383.33	788,803	-1,68%						

Tabela 58 – Quadro de locação de Curvas Verticais – Alinhamento 5000 – Marginal Direita

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	100+000.00	776,897		2,44%					
2	100+123.59	779,918	2,44%	1,90%	0,54%	Convexa	60,000	111,053	11.105,295
3	100+169.14	780,786	1,90%	3,05%	1,15%	Côncava	22,000	19,121	1.912,112
4	100+214.78	782,18	3,05%	2,47%	0,58%	Convexa	21,000	35,931	3.593,137
5	100+399.78	786,75	2,47%	0,87%	1,60%	Convexa	30,000	18,787	1.878,719

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
6	100+486.78	787,51	0,87%	1,34%	0,47%	Côncava	50,000	107,205	10.720,472
7	100+694.78	790,298	1,34%						

Tabela 59 – Quadro de locação de Curvas Verticais – Retorno km 579

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	0+600.00	774,816		0,67%					
2	0+668.88	775,277	0,67%	0,55%	0,12%	Convexa	50,000	424,258	42.425,833
3	0+721.15	775,565	0,55%	1,98%	1,43%	Côncava	20,000	13,965	1.396,530
4	0+764.00	776,415	1,98%	-2,55%	4,54%	Convexa	61,000	13,450	1.345,045
5	0+806.00	775,344	-2,55%	-0,17%	2,38%	Côncava	16,000	6,728	672,843
6	0+826.80	775,308	-0,17%						

Tabela 60 – Quadro de locação de Curvas Verticais - Agulha temporária 1000

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	20+000.00	776,376		0,53%					
2	20+013.00	776,445	0,53%	0,94%	0,41%	Côncava	20,000	48,740	4.873,992
3	20+067.23	776,954	0,94%						

Tabela 61 – Quadro de locação de Curvas Verticais - Alinhamento 1100 – Marginal Esquerda

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	22+000.00	776,834		0,94%					
2	22+095.85	777,735	0,94%	0,74%	0,20%	Convexa	30,000	152,422	15.242,231
3	22+205.85	778,552	0,74%	1,08%	0,34%	Côncava	40,000	118,481	11.848,115
4	22+425.85	780,93	1,08%	1,61%	0,53%	Côncava	60,000	113,521	11.352,134
5	22+535.85	782,7	1,61%	-3,00%	4,61%	Convexa	140,000	30,398	3.039,830
6	22+660.42	778,968	-3,00%	-3,43%	0,43%	Convexa	30,000	69,000	6.900,035
7	22+770.43	775,194	-3,43%						

Tabela 62 – Quadro de locação de Curvas Verticais - Alinhamento 1200 – Taper e Retorno

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	24+000.00	778,492		-0,77%					
2	24+018.82	778,346	-0,77%	2,42%	3,20%	Côncava	22,366	7,000	700,000
3	24+035.97	778,761	2,42%	0,57%	1,85%	Convexa	11,936	6,443	644,255
4	24+080.00	779,012	0,57%	1,09%	0,52%	Côncava	20,000	38,142	3.814,244
5	24+240.00	780,761	1,09%						

Tabela 63 – Quadro de locação de Curvas Verticais - Alinhamento 1300 – Agulha de acesso

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	26+000.00	773,51		-0,50%					
2	26+023.21	773,394	-0,50%	0,68%	1,18%	Côncava	40,000	33,803	3.380,256
3	26+187.92	774,517	0,68%	1,85%	1,16%	Côncava	25,000	21,468	2.146,844
4	26+215.04	775,018	1,85%	0,69%	1,16%	Convexa	25,000	21,577	2.157,661
5	26+252.30	775,274	0,69%						

Tabela 64 – Quadro de locação de Curvas Verticais - Alinhamento 1400 – Agulha de acesso

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	28+000.00	775,636		0,58%					
2	28+020.00	775,753	0,58%	-1,03%	1,61%	Convexa	22,000	13,653	1.365,286
3	28+050.00	775,444	-1,03%	1,76%	2,79%	Côncava	30,000	10,749	1.074,946
4	28+160.76	777,393	1,76%						

Tabela 65 – Quadro de locação de Curvas Verticais - Alinhamento 1700 – Agulha de acesso

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	34+000.00	777,121		2,24%					
2	34+055.00	778,351	2,24%	3,19%	0,95%	Côncava	40,000	41,976	4.197,626
3	34+105.00	779,946	3,19%	2,61%	0,58%	Convexa	40,000	69,516	6.951,562
4	34+180.00	781,907	2,61%	2,04%	0,57%	Convexa	30,000	52,577	5.257,708
5	34+218.03	782,684	2,04%						

Tabela 66 – Quadro de locação de Curvas Verticais - Alinhamento 1600 – Agulha de acesso

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	32+000.00	783,826		3,22%					
2	32+030.00	784,791	3,22%	1,10%	2,12%	Convexa	20,000	9,434	943,419
3	32+052.83	785,041	1,10%	1,10%	0,00%				
4	32+156.64	786,184	1,10%						

Tabela 67 – Quadro de locação de Curvas Verticais - Alinhamento 0050 – Marginal Show Rural

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	0+000.00	775,274		0,69%					
2	0+130.00	776,167	0,69%	1,50%	0,82%	Côncava	80,000	97,896	9.789,600
3	0+390.00	780,077	1,50%	-1,53%	3,03%	Convexa	240,000	79,125	7.912,457
4	0+600.00	776,865	-1,53%	-2,87%	1,34%	Convexa	60,000	44,923	4.492,331
5	0+700.00	774	-2,87%	2,13%	4,99%	Côncava	120,000	24,041	2.404,052
6	0+780.00	775,701	2,13%	4,77%	2,64%	Côncava	40,000	15,133	1.513,306
7	0+875.00	780,233	4,77%	2,05%	2,72%	Convexa	100,000	36,766	3.676,640
8	1+050.00	783,82	2,05%	0,50%	1,55%	Convexa	40,000	25,808	2.580,839
9	1+125.00	784,195	0,50%	2,40%	1,90%	Côncava	30,000	15,758	1.575,799
10	1+143.83	784,647	2,40%						

Tabela 68 – Quadro de locação de Curvas Verticais - Alinhamento 6000 – Marginal Esquerda

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	120+000.00	784,073		1,38%					
2	120+152.34	786,176	1,38%	1,05%	0,33%	Convexa	50,000	150,656	15.065,596
3	120+333.62	788,077	1,05%	1,31%	0,26%	Côncava	20,000	77,796	7.779,561
4	120+376.30	788,635	1,31%	0,77%	0,54%	Convexa	60,000	111,360	11.136,044
5	120+506.30	789,632	0,77%	1,61%	0,84%	Côncava	60,000	71,060	7.105,991
6	120+926.30	796,4	1,61%	-4,00%	5,61%	Convexa	280,000	49,898	4.989,825
7	121+186.30	786	-4,00%	0,00%	4,00%	Côncava	70,000	17,500	1.750,000
8	121+256.30	786	0,00%	6,00%	6,00%	Côncava	70,000	11,667	1.166,667
9	121+376.30	793,2	6,00%	0,74%	5,26%	Convexa	40,000	7,599	759,936
10	121+416.30	793,495	0,74%	2,02%	1,28%	Côncava	40,000	31,212	3.121,224
11	121+595.09	797,102	2,02%	1,18%	0,84%	Convexa	75,000	89,512	8.951,236
12	121+641.96	797,655	1,18%						

Tabela 69 – Quadro de locação de Curvas Verticais - Alinhamento 2100 – Retorno Ferroeste

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	42+000.00	786,32		1,11%					
2	42+102.59	787,46	1,11%						

Tabela 70 – Quadro de locação de Curvas Verticais - Alinhamento 2200 – Taper

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	44+000.00	793,688		1,37%					
2	44+065.00	794,581	1,37%	0,51%	0,87%	Convexa	70,000	80,660	8.066,001
3	44+130.00	794,911	0,51%	-0,93%	1,44%	Convexa	45,000	31,352	3.135,154
4	44+160.00	794,632	-0,93%						

Tabela 71 – Quadro de locação de Curvas Verticais - Alinhamento 2300 – Marginal Direita

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	46+000.00	794,551		0,50%					
2	46+051.00	794,806	0,50%	-1,52%	2,02%	Convexa	100,000	49,529	4.952,915
3	46+233.30	792,036	-1,52%	-5,21%	3,70%	Convexa	60,000	16,237	1.623,683
4	46+343.30	786,3	-5,21%	-0,50%	4,71%	Côncava	50,000	10,607	1.060,683
5	46+403.30	786	-0,50%	2,43%	2,93%	Côncava	60,000	20,502	2.050,225
6	46+453.30	787,213	2,43%	5,90%	3,48%	Côncava	40,000	11,500	1.150,046
7	46+553.30	793,117	5,90%	2,03%	3,87%	Convexa	60,000	15,487	1.548,733
8	46+763.30	797,38	2,03%	0,60%	1,43%	Convexa	120,000	83,920	8.391,974
9	46+914.15	798,285	0,60%						

Tabela 72 – Quadro de locação de Curvas Verticais - Alinhamento 2600 – Taper

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
1	52+000.00	792,491		4,33%					
2	52+025.00	793,573	4,33%	2,05%	2,28%	Convexa	30,000	13,161	1.316,084

PIV	ESTACA (km)	COTA (m)	RAMPA DE ENTRADA	RAMPA DE SAÍDA	DIF. GRADE	CURVA	COMP. (m)	K (m)	RAIO (m)
3	52+070.00	794,495	2,05%	2,09%	0,04%	Côncava	20,000	530,908	53.090,767
4	52+140.00	795,956	2,09%						

1.3 Notas de serviço de terraplenagem e pavimentação

A seguir estão apresentadas as notas de serviço para execução dos serviços de terraplenagem e pavimentação:

1.3.1 BR-277 – Pista direita

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA																											
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO										
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28726+10,000													799,185	798,601	799,216	0,031	5,785	798,485	-29,07	7,097	798,419	-5,00	7,600	798,709	25,00	8,021	798,774	-66,67
28727+0,000													799,194	798,642	799,257	0,063	5,107	798,540	-37,90	7,097	798,440	-5,00	7,600	798,730	25,00	8,216	798,664	-66,67
28727+10,000													799,199	798,671	799,286	0,087	4,379	798,584	-55,31	7,097	798,448	-5,00	7,600	798,738	25,00	8,444	798,520	-66,67
28728+0,000													799,260	798,689	799,304	0,044	3,601	798,617	-105,61	7,097	798,442	-5,00	7,600	798,732	25,00	8,790	798,284	-66,67
28728+10,000													799,318	798,696	799,311	-0,007	3,600	798,624	-73,42	7,097	798,449	-5,00	7,600	798,739	25,00	9,011	798,143	-66,67
28728+18,401													799,281	798,693	799,308	0,027	3,600	798,621	-56,66	7,097	798,446	-5,00	7,600	798,736	25,00	9,183	798,025	-66,67
28729+0,000													799,271	798,691	799,306	0,035	3,600	798,619	-54,14	7,097	798,444	-5,00	7,600	798,734	25,00	9,220	797,999	-66,67
28729+10,000													799,210	798,675	799,290	0,080	3,600	798,603	-41,73	7,097	798,428	-5,00	7,600	798,718	25,00	9,325	797,913	-66,67
28730+0,000													799,150	798,648	799,263	0,113	3,600	798,576	-33,28	7,097	798,401	-5,00	7,600	798,691	25,00	9,281	797,915	-66,67
28730+10,000													799,103	798,609	799,224	0,121	3,600	798,537	-27,26	7,097	798,362	-5,00	7,600	798,652	25,00	9,240	797,903	-66,67
28731+0,000													799,020	798,558	799,173	0,153	3,600	798,486	-22,82	7,097	798,311	-5,00	7,600	798,601	25,00	9,120	797,933	-66,67
28731+10,000													798,890	798,497	799,112	0,222	3,600	798,425	-19,46	7,097	798,250	-5,00	7,600	798,540	25,00	8,707	798,147	-66,67
28732+0,000										-0,543	798,434	2,00	798,735	798,424	799,039	0,304	3,600	798,352	-2,00	7,097	798,177	-5,00	7,600	798,467	25,00	8,284	798,355	-66,67
28732+5,532										-0,907	798,396	2,00	798,647	798,378	798,993	0,346	3,600	798,306	-2,00	7,097	798,131	-5,00	7,600	798,421	25,00	8,524	798,150	-66,67
28732+10,000										-1,202	798,363	2,00	798,612	798,339	798,954	0,342	3,600	798,267	-2,00	7,097	798,092	-5,00	7,600	798,382	25,00	8,289	798,268	-66,67
28733+0,000										-1,826	798,280	2,00	798,468	798,243	798,858	0,390	3,600	798,171	-2,00	7,097	797,996	-5,00	7,600	798,286	25,00	8,149	798,265	-66,67
28733+10,000										-2,401	798,184	2,00	798,369	798,136	798,751	0,382	3,600	798,064	-2,00	7,097	797,889	-5,00	7,600	798,179	25,00	8,142	798,162	-66,67
28734+0,000										-2,924	798,081	2,00	798,301	798,023	798,638	0,337	3,600	797,951	-2,00	7,097	797,776	-5,00	7,600	798,066	25,00	8,291	797,950	-66,67
28734+10,000										-3,398	797,978	2,00	798,178	797,910	798,525	0,347	3,600	797,838	-2,00	7,097	797,663	-5,00	7,600	797,953	25,00	7,850	798,131	-66,67
28735+0,000										-3,821	797,873	2,00	798,028	797,797	798,412	0,384	3,600	797,725	-2,00	7,097	797,550	-5,00	7,600	797,840	25,00	8,057	797,880	-66,67
28735+10,000										-4,195	797,768	2,00	797,926	797,684	798,299	0,373	3,600	797,612	-2,00	7,097	797,437	-5,00	7,600	797,727	25,00	7,958	797,834	-66,67
28735+12,666										-4,286	797,740	2,00	797,906	797,654	798,269	0,363	3,600	797,582	-2,00	7,097	797,407	-5,00	7,600	797,697	25,00	8,034	797,753	-66,67
28736+0,000										-4,518	797,661	2,00	797,810	797,571	798,186	0,376	3,600	797,499	-2,00	7,097	797,324	-5,00	7,600	797,614	25,00	8,410	797,419	-66,67
28736+10,000										-4,792	797,554	2,00	797,685	797,458	798,073	0,388	3,600	797,386	-2,00	7,097	797,211	-5,00	7,600	797,501	25,00	8,436	797,289	-66,67
28737+0,000										-5,015	797,445	2,00	797,581	797,345	797,960	0,379	3,600	797,273	-2,00	7,097	797,098	-5,00	7,600	797,388	25,00	8,391	797,206	-66,67
28737+10,000										-5,189	797,336	2,00	797,479	797,232	797,847	0,368	3,600	797,160	-2,00	7,097	796,985	-5,00	7,600	797,275	25,00	8,282	797,165	-66,67
28738+0,000										-5,312	797,222	2,00	797,345	797,116	797,731	0,386	3,600	797,044	-2,00	7,097	796,869	-5,00	7,600	797,159	25,00	8,264	797,061	-66,67
28738+10,000										-5,386	797,101	2,00	797,198	796,993	797,608	0,410	3,600	796,921	-2,00	7,097	796,746	-5,00	7,600	797,036	25,00	8,032	797,093	-66,67
28738+19,797										-4,200	796,951	2,00	797,166	796,867	797,482	0,316	3,600	796,795	-2,00	7,097	796,620	-5,00	7,600	796,910	25,00	7,641	797,227	-66,67
28739+0,000										-4,200	796,948	2,00	797,164	796,864	797,479	0,315	3,600	796,792	-2,00	7,097	796,617	-5,00	7,600	796,907	25,00	7,639	797,226	-66,67
28740+0,000										-4,200	796,671	2,00	796,902	796,587	797,202	0,300	3,600	796,515	-2,00	7,097	796,340	-5,00	7,600	796,630	25,00	7,695	796,911	-66,67
28741+0,000										-4,200	796,368	2,00	796,832	796,284	796,899	0,067	3,600	796,212	-2,00	7,097	796,037	-5,00	7,600	796,627	5,00	8,152	796,879	100,00

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28742+0,000										-4,200	796,039	2,00	796,731	795,955	796,570	-0,161	3,600	795,883	-2,00	7,097	795,708	-5,00	7,600	796,298	5,00	8,624	797,021	100,00
28743+0,000										-4,200	795,684	2,00	796,343	795,600	796,215	-0,128	3,600	795,528	-2,00	7,097	795,353	-5,00	7,600	795,943	5,00	8,937	796,980	100,00
28744+0,000										-4,505	795,309	2,00	795,934	795,219	795,834	-0,100	4,114	795,137	-2,00	7,097	794,988	-5,00	7,600	795,578	5,00	8,799	796,476	100,00
28745+0,000										-4,505	794,903	2,00	795,484	794,813	795,428	-0,056	5,143	794,710	-2,00	7,097	794,612	-5,00	7,600	795,202	5,00	8,465	795,767	100,00
28746+0,000										-4,505	794,474	2,00	795,070	794,384	794,999	-0,071	6,171	794,261	-2,00	7,169	794,211	-5,00	7,671	794,801	5,00	8,614	795,443	100,00
28747+0,000										-4,505	794,042	2,00	794,344	793,952	794,567	0,223	7,200	793,808	-2,00	8,197	793,758	-5,00	8,700	794,348	5,00	9,350	794,697	100,00
28748+0,000										-4,505	793,610	2,00	793,942	793,520	794,135	0,193	7,200	793,376	-2,00	8,197	793,326	-5,00	8,700	793,616	25,00	9,132	793,673	-66,67
28749+0,000										-4,505	793,224	2,00	792,946	793,134	793,749	0,803	8,111	792,972	-2,00	9,109	792,922	-5,00	9,611	793,212	25,00	10,375	793,048	-66,67
28750+0,000										-4,505	792,930	2,00	792,327	792,840	793,455	1,128	3,600	792,768	-2,00	7,097	792,594	-66,67	7,600	793,183	5,00			
28751+0,000										-4,505	792,729	2,00	792,003	792,639	793,254	1,251	3,600	792,567	-2,00	7,097	792,392	-66,67	7,600	792,982	5,00			
28752+0,000										-4,505	792,612	2,00	791,340	792,522	793,137	1,797	3,600	792,450	-2,00	7,097	792,275	-66,67	7,600	792,865	5,00			
28753+0,000										-4,505	792,512	2,00	790,820	792,422	793,037	2,217	3,600	792,350	-2,00	7,097	792,175	-66,67	7,600	792,765	5,00			
28754+0,000										-4,505	792,412	2,00	790,414	792,322	792,937	2,523	3,600	792,250	-2,00	7,097	792,075	-66,67	7,600	792,665	5,00			
28755+0,000										-4,505	792,312	2,00	789,510	792,222	792,837	3,327	3,600	792,150	-2,00	7,097	791,975	-66,67	7,600	792,565	5,00			
28756+0,000										-4,505	792,212	2,00	790,301	792,122	792,737	2,436	3,600	792,050	-2,00	7,097	791,875	-66,67	7,600	792,465	5,00			
28757+0,000										-4,505	792,112	2,00	790,079	792,022	792,637	2,558	3,600	791,950	-2,00	7,097	791,775	-5,00	7,600	792,065	25,00	16,665	786,367	-66,67
28758+0,000										-4,505	792,012	2,00	789,907	791,922	792,537	2,630	3,600	791,850	-2,00	7,097	791,675	-5,00	7,600	791,965	25,00	17,287	785,852	-66,67
28759+0,000										-4,505	791,912	2,00	790,014	791,822	792,437	2,423	3,600	791,750	-2,00	7,097	791,575	-5,00	7,600	791,865	25,00	16,407	786,339	-66,67
28760+0,000										-4,505	791,812	2,00	789,913	791,722	792,337	2,424	3,600	791,650	-2,00	7,097	791,475	-5,00	7,600	791,765	25,00	15,366	786,933	-66,67
28761+0,000										-4,505	791,712	2,00	789,836	791,622	792,237	2,401	3,600	791,550	-2,00	7,097	791,375	-5,00	7,600	791,665	25,00	14,479	787,425	-66,67
28762+0,000										-4,505	791,612	2,00	789,550	791,522	792,137	2,587	3,600	791,450	-2,00	7,097	791,275	-5,00	7,600	791,565	25,00	13,754	787,808	-66,67
28763+0,000										-4,505	791,523	2,00	790,086	791,433	792,048	1,962	3,600	791,361	-2,00	7,097	791,186	-5,00	7,600	791,476	25,00	13,073	788,172	-66,67
28764+0,000										-4,505	791,504	2,00	790,045	791,414	792,029	1,984	3,600	791,342	-2,00	7,097	791,167	-5,00	7,600	791,457	25,00	12,463	788,560	-66,67
28765+0,000										-4,505	791,568	2,00	790,445	791,478	792,093	1,648	3,600	791,406	-2,00	7,097	791,231	-5,00	7,600	791,521	25,00	11,504	789,263	-66,67
28766+0,000										-4,505	791,713	2,00	791,446	791,623	792,238	0,792	3,600	791,551	-2,00	7,097	791,376	-5,00	7,600	791,666	25,00	10,557	790,040	-66,67
28767+0,000										-4,505	791,941	2,00	791,953	791,851	792,466	0,513	3,600	791,779	-2,00	4,873	791,715	-5,00	5,376	792,005	25,00	6,870	791,353	-66,67
28768+0,000										-4,505	792,239	2,00	792,434	792,149	792,764	0,330	7,683	791,996	-2,00	8,680	791,946	-5,00	9,183	792,236	25,00	10,739	791,544	-66,67
28769+0,000										-4,505	792,548	2,00	792,680	792,458	793,073	0,393	7,200	792,314	-2,00	8,197	792,264	-5,00	8,700	792,554	25,00	8,755	792,863	-66,67
28770+0,000										-4,505	792,857	2,00	793,026	792,767	793,382	0,356	7,200	792,623	-2,00	8,197	792,573	-5,00	8,700	793,163	5,00	9,141	793,304	100,00
28771+0,000										-4,505	793,166	2,00	793,679	793,076	793,691	0,012	7,200	792,932	-2,00	8,197	792,882	-5,00	8,700	793,472	5,00	9,463	793,935	100,00
28772+0,000										-4,505	793,475	2,00	793,998	793,385	794,000	0,002	7,200	793,241	-2,00	8,197	793,192	-5,00	8,700	793,781	5,00	9,622	794,403	100,00
28773+0,000										-4,505	793,749	2,00	794,288	793,659	794,274	-0,014	7,200	793,515	-2,00	8,197	793,465	-5,00	8,700	794,055	5,00	9,831	794,886	100,00
28774+0,000										-4,505	793,951	2,00	794,409	793,861	794,476	0,067	7,200	793,717	-2,00	8,197	793,667	-5,00	8,700	794,257	5,00	10,004	795,261	100,00
28775+0,000										-4,505	794,082	2,00	794,681	793,992	794,607	-0,074	6,171	793,868	-2,00	7,169	793,819	-5,00	7,671	794,408	5,00	8,539	794,976	100,00

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28776+0,000										-4,505	794,142	2,00	794,401	794,052	794,667	0,266	5,143	793,949	-2,00	7,097	793,851	-5,00	7,600	794,141	25,00	8,068	794,174	-66,67
28777+0,000										-4,505	794,130	2,00	794,032	794,040	794,655	0,623	4,114	793,958	-2,00	7,097	793,809	-5,00	7,600	794,099	25,00	8,298	793,978	-66,67
28778+0,000										-4,505	794,048	2,00	793,800	793,958	794,573	0,773	3,600	793,886	-2,00	7,097	793,711	-5,00	7,600	794,001	25,00	8,441	793,785	-66,67
28779+0,000										-4,505	793,894	2,00	793,630	793,804	794,419	0,789	3,600	793,732	-2,00	7,097	793,557	-5,00	7,600	793,847	25,00	8,557	793,553	-66,67
28780+0,000										-4,505	793,669	2,00	793,498	793,579	794,194	0,696	3,600	793,507	-2,00	7,097	793,332	-5,00	7,600	793,622	25,00	8,770	793,186	-66,67
28781+0,000										-4,505	793,408	2,00	793,099	793,318	793,933	0,834	3,600	793,246	-2,00	7,097	793,071	-5,00	7,600	793,361	25,00	8,900	792,839	-66,67
28782+0,000										-4,505	793,147	2,00	792,910	793,057	793,672	0,762	3,600	792,985	-2,00	7,097	792,810	-5,00	7,600	793,100	25,00	9,054	792,476	-66,67
28783+0,000										-4,505	792,887	2,00	792,814	792,796	793,411	0,597	3,600	792,724	-2,00	7,097	792,550	-5,00	7,600	792,839	25,00	9,305	792,048	-66,67
28784+0,000										-4,505	792,626	2,00	792,471	792,536	793,151	0,680	3,600	792,464	-2,00	7,097	792,289	-5,00	7,600	792,579	25,00	9,357	791,752	-66,67
28785+0,000										-4,505	792,365	2,00	792,214	792,275	792,890	0,676	3,600	792,203	-2,00	7,097	792,028	-5,00	7,600	792,318	25,00	8,953	791,761	-66,67
28786+0,000										-4,505	792,105	2,00	791,935	792,014	792,629	0,694	3,600	791,942	-2,00	7,097	791,768	-5,00	7,600	792,057	25,00	9,166	791,359	-66,67
28787+0,000										-4,505	791,844	2,00	791,880	791,754	792,369	0,489	3,600	791,682	-2,00	7,097	791,507	-5,00	7,600	791,797	25,00	9,128	791,123	-66,67
28788+0,000										-4,505	791,583	2,00	791,749	791,493	792,108	0,359	3,600	791,421	-2,00	7,097	791,246	-5,00	7,600	791,536	25,00	9,351	790,714	-66,67
28789+0,000										-4,505	791,322	2,00	791,638	791,232	791,847	0,209	3,600	791,160	-2,00	7,097	790,985	-5,00	7,600	791,275	25,00	8,911	790,747	-66,67
28790+0,000										-4,505	791,062	2,00	791,356	790,972	791,587	0,231	3,600	790,900	-2,00	7,097	790,725	-5,00	7,600	791,015	25,00	8,105	791,023	-66,67
28791+0,000										-4,505	790,801	2,00	791,114	790,711	791,326	0,212	3,600	790,639	-2,00	7,097	790,464	-5,00	7,600	791,054	5,00	8,006	791,159	100,00
28792+0,000										-4,505	790,540	2,00	790,957	790,450	791,065	0,108	3,600	790,378	-2,00	7,097	790,203	-5,00	7,600	790,793	5,00	8,207	791,100	100,00
28793+0,000										-4,505	790,280	2,00	790,897	790,190	790,805	-0,092	3,600	790,118	-2,00	7,097	789,943	-5,00	7,600	790,533	5,00	8,334	790,966	100,00
28794+0,000										-4,505	790,019	2,00	790,619	789,929	790,544	-0,075	3,600	789,857	-2,00	7,097	789,682	-5,00	7,600	790,272	5,00	8,359	790,731	100,00
28795+0,000										-4,505	789,758	2,00	790,352	789,668	790,283	-0,069	3,600	789,596	-2,00	7,097	789,421	-5,00	7,600	790,011	5,00	8,300	790,411	100,00
28796+0,000										-4,505	789,498	2,00	790,048	789,407	790,022	-0,026	3,600	789,335	-2,00	7,097	789,161	-5,00	7,600	789,750	5,00	8,240	790,091	100,00
28797+0,000										-4,505	789,237	2,00	789,682	789,147	789,762	0,080	3,600	789,075	-2,00	7,097	788,900	-5,00	7,600	789,490	5,00	8,172	789,761	100,00
28798+0,000										-4,505	788,976	2,00	789,433	788,886	789,501	0,068	3,600	788,814	-2,00	7,097	788,639	-5,00	7,600	789,229	5,00	8,125	789,454	100,00
28799+0,000										-4,505	788,715	2,00	789,035	788,625	789,240	0,205	3,600	788,553	-2,00	7,097	788,378	-5,00	7,600	788,968	5,00	8,069	789,137	100,00
28800+0,000										-4,505	788,455	2,00	788,644	788,365	788,980	0,336	3,600	788,293	-2,00	7,097	788,118	-5,00	7,600	788,708	5,00	7,983	788,791	100,00
28801+0,000										-4,505	788,194	2,00	788,308	788,104	788,719	0,411	3,600	788,032	-2,00	7,097	787,857	-5,00	7,600	788,147	25,00	7,672	788,444	-66,67
28802+0,000										-4,505	787,933	2,00	788,140	787,843	788,458	0,318	3,600	787,771	-2,00	7,097	787,596	-5,00	7,600	787,886	25,00	7,826	788,081	-66,67
28803+0,000										-4,505	787,673	2,00	787,927	787,583	788,198	0,271	3,600	787,511	-2,00	7,097	787,336	-5,00	7,600	787,626	25,00	8,840	787,144	-66,67
28804+0,000										-4,505	787,414	2,00	787,752	787,323	787,938	0,186	3,600	787,251	-2,00	7,097	787,077	-5,00	7,600	787,366	25,00	9,606	786,374	-66,67
28805+0,000										-4,505	787,166	2,00	787,467	787,076	787,691	0,224	3,600	787,004	-2,00	7,097	786,829	-5,00	7,600	787,119	25,00	11,302	784,996	-66,67
28806+0,000										-4,505	786,932	2,00	787,027	786,842	787,457	0,430	3,600	786,770	-2,00	7,097	786,596	-5,00	7,600	786,885	25,00	11,822	784,416	-66,67
28807+0,000	-5,767	787,200	-66,67	-5,700	787,244	5,00	-5,096	786,722	1,97	-4,200	786,704	2,00	786,355	786,620	787,235	0,880	3,600	786,548	-2,00	7,097	786,373	-5,00	7,600	786,663	25,00	11,825	784,192	-66,67
28808+0,000	-6,010	786,962	100,00	-5,700	786,652	25,00	-5,119	786,415	0,29	-4,200	786,412	0,29	785,934	786,400	787,015	1,081	3,600	786,389	-0,29	7,033	786,365	-0,73	7,600	786,611	25,00	11,876	784,131	-66,67
28808+7,634	-6,046	786,878	100,00	-5,700	786,532	25,00	-5,130	786,287	-0,56	-4,200	786,292	-0,56	785,956	786,316	786,931	0,975	3,600	786,336	0,56	7,015	786,355	0,56	7,600	786,590	25,00	11,856	784,136	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO													EIXO			LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA				COTAS			BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28808+10,000	-6,056	786,852	100,00	-5,700	786,496	25,00	-5,134	786,249	-0,80	-4,200	786,256	-0,80	785,944	786,290	786,905	0,961	3,600	786,318	0,80	7,012	786,346	0,80	7,600	786,578	25,00	11,852	784,131	-66,67
28809+0,000	-6,091	786,751	100,00	-5,700	786,361	25,00	-5,142	786,108	-1,40	-4,200	786,121	-1,40	785,936	786,180	786,795	0,859	3,600	786,230	1,40	7,004	786,278	1,40	7,600	786,505	25,00	11,826	784,083	-66,67
28809+10,000	-6,103	786,654	100,00	-5,700	786,251	25,00	-5,142	785,997	-1,40	-4,200	786,011	-1,40	785,937	786,069	786,684	0,747	3,600	786,120	1,40	7,004	786,167	1,40	7,600	786,395	25,00	11,676	784,073	-66,67
28810+0,000	-6,137	786,577	100,00	-5,700	786,140	25,00	-5,142	785,887	-1,40	-4,200	785,900	-1,40	785,898	785,959	786,574	0,676	3,600	786,010	1,40	7,004	786,057	1,40	7,600	786,285	25,00	11,453	784,112	-66,67
28810+10,000	-6,156	786,487	100,00	-5,700	786,030	25,00	-5,142	785,777	-1,40	-4,200	785,790	-1,40	785,813	785,849	786,464	0,651	3,600	785,899	1,40	7,004	785,947	1,40	7,600	786,174	25,00	11,217	784,159	-66,67
28811+0,000	-6,174	786,394	100,00	-5,700	785,920	25,00	-5,142	785,667	-1,40	-4,200	785,680	-1,40	785,791	785,739	786,354	0,563	3,600	785,789	1,40	7,004	785,837	1,40	7,600	786,064	25,00	10,964	784,218	-66,67
28811+10,000	-6,189	786,298	100,00	-5,700	785,810	25,00	-5,142	785,557	-1,40	-4,200	785,570	-1,40	785,776	785,629	786,244	0,468	3,600	785,679	1,40	7,004	785,727	1,40	7,600	785,954	25,00	10,710	784,277	-66,67
28812+0,000	-6,246	786,245	100,00	-5,700	785,700	25,00	-5,142	785,446	-1,40	-4,200	785,460	-1,40	785,754	785,518	786,133	0,379	3,600	785,569	1,40	7,004	785,616	1,40	7,600	785,844	25,00	10,433	784,351	-66,67
28812+10,000	-6,280	786,169	100,00	-5,700	785,589	25,00	-5,142	785,336	-1,40	-4,200	785,349	-1,40	785,719	785,408	786,023	0,304	3,987	785,464	1,40	7,004	785,506	1,40	7,600	785,734	25,00	10,146	784,432	-66,67
28813+0,000	-6,271	786,051	100,00	-5,700	785,479	25,00	-5,142	785,226	-1,40	-4,200	785,239	-1,40	785,668	785,298	785,913	0,245	4,416	785,360	1,40	7,004	785,396	1,40	7,600	785,623	25,00	9,705	784,616	-66,67
28813+10,000	-6,262	785,931	100,00	-5,700	785,369	25,00	-5,142	785,116	-1,40	-4,200	785,129	-1,40	785,605	785,188	785,803	0,198	4,888	785,256	1,40	7,004	785,286	1,40	7,600	785,513	25,00	9,490	784,649	-66,67
28814+0,000	-6,254	785,813	100,00	-5,700	785,259	25,00	-5,142	785,006	-1,40	-4,200	785,019	-1,40	785,550	785,078	785,693	0,143	5,402	785,153	1,40	7,004	785,176	1,40	7,600	785,403	25,00	9,443	784,571	-66,67
28814+10,000	-6,253	785,702	100,00	-5,700	785,149	25,00	-5,142	784,895	-1,40	-4,200	784,909	-1,40	785,521	784,967	785,582	0,061	5,959	785,051	1,40	7,004	785,065	1,40	7,600	785,293	25,00	9,458	784,450	-66,67
28815+0,000	-6,257	785,595	100,00	-5,700	785,038	25,00	-5,142	784,785	-1,40	-4,200	784,798	-1,40	785,475	784,857	785,472	-0,003	6,558	784,949	1,40	7,462	784,962	1,40	8,058	785,189	25,00	9,903	784,355	-66,67
28815+10,000	-6,253	785,481	100,00	-5,700	784,928	25,00	-5,142	784,675	-1,40	-4,200	784,688	-1,40	785,408	784,747	785,362	-0,046	7,200	784,848	1,40	8,104	784,860	1,40	8,700	785,088	25,00	10,563	784,242	-66,67
28816+0,000	-6,211	785,329	100,00	-5,700	784,818	25,00	-5,142	784,565	-1,40	-4,200	784,578	-1,40	785,307	784,637	785,252	-0,055	7,200	784,738	1,40	8,104	784,750	1,40	8,700	784,978	25,00	10,548	784,142	-66,67
28816+10,000	-6,214	785,221	100,00	-5,700	784,708	25,00	-5,142	784,455	-1,40	-4,200	784,468	-1,40	785,207	784,527	785,142	-0,065	7,200	784,627	1,40	8,104	784,640	1,40	8,700	784,867	25,00	10,302	784,195	-66,67
28817+0,000	-6,146	785,043	100,00	-5,700	784,598	25,00	-5,142	784,344	-1,40	-4,200	784,358	-1,40	785,097	784,416	785,031	-0,066	7,200	784,517	1,40	8,104	784,530	1,40	8,700	784,757	25,00	9,842	784,392	-66,67
28817+10,000	-6,114	784,901	100,00	-5,700	784,487	25,00	-5,142	784,234	-1,40	-4,200	784,247	-1,40	784,993	784,306	784,921	-0,072	3,600	784,357	1,40				5,100	784,897	5,00			
28818+0,000	-6,096	784,773	100,00	-5,700	784,377	25,00	-5,142	784,124	-1,40	-4,200	784,137	-1,40	784,871	784,196	784,811	-0,060	3,600	784,246	1,40				5,100	784,786	5,00			
28818+10,000	-6,080	784,646	100,00	-5,700	784,267	25,00	-5,142	784,014	-1,40	-4,200	784,027	-1,40	784,746	784,086	784,701	-0,045	3,600	784,136	1,40	7,004	784,184	1,40	7,600	784,411	25,00	8,073	784,492	-66,67
28819+0,000	-6,055	784,512	100,00	-5,700	784,157	25,00	-5,142	783,904	-1,40	-4,200	783,917	-1,40	784,633	783,976	784,591	-0,042	3,600	784,026	1,40	7,004	784,074	1,40	7,600	784,301	25,00	8,079	784,377	-66,67
28819+10,000	-5,997	784,343	100,00	-5,700	784,047	25,00	-5,142	783,793	-1,40	-4,200	783,807	-1,40	784,521	783,865	784,480	-0,041	3,600	783,916	1,40	7,004	783,963	1,40	7,600	784,191	25,00	8,014	784,311	-66,67
28820+0,000	-5,740	784,210	-66,67	-5,700	784,236	5,00	-5,142	783,683	-1,40	-4,200	783,696	-1,40	784,410	783,755	784,370	-0,040	3,600	783,806	1,40	7,004	783,853	1,40	7,600	784,081	25,00	7,872	784,295	-66,67
28820+0,710	-5,737	784,204	-66,67	-5,700	784,228	5,00	-5,142	783,675	-1,40	-4,200	783,688	-1,40	784,401	783,747	784,362	-0,039	3,600	783,798	1,40	7,004	783,845	1,40	7,600	784,073	25,00	7,861	784,294	-66,67
28820+10,000				-5,700	784,126	5,00	-5,142	783,573	-1,40	-4,200	783,586	-1,40	784,278	783,645	784,260	-0,018	3,600	783,695	1,40	7,004	783,743	1,40	7,600	783,970	25,00	7,728	784,281	-66,67
28821+0,000	-5,720	784,002	-66,67	-5,700	784,016	5,00	-5,142	783,463	-1,40	-4,200	783,476	-1,40	784,154	783,535	784,150	-0,004	3,600	783,585	1,40	7,004	783,633	1,40	7,600	784,160	5,00	7,999	784,259	100,00
28821+10,000	-5,782	783,851	-66,67	-5,700	783,906	5,00	-5,142	783,353	-1,40	-4,200	783,366	-1,40	784,027	783,425	784,040	0,013	3,600	783,475	1,40	7,004	783,523	1,40	7,600	784,050	5,00	8,092	784,242	100,00
28822+0,000	-5,811	783,716	-66,67	-5,700	783,790	5,00	-5,142	783,237	-1,40	-4,200	783,250	-1,40	783,899	783,309	783,924	0,025	3,600	783,359	1,40	7,004	783,407	1,40	7,600	783,934	5,00	8,118	784,153	100,00
28822+10,000	-5,821	783,583	-66,67	-5,700	783,664	5,00	-5,142	783,111	-1,40	-4,200	783,124	-1,40	783,773	783,183	783,798	0,025	3,600	783,233	1,40	7,004	783,281	1,40	7,600	783,808	5,00	8,046	783,954	100,00
28823+0,000	-5,823	783,444	-66,67	-5,700	783,527	5,00	-5,142	782,973	-1,40	-4,200	782,987	-1,40	783,621	783,045	783,660	0,039	3,600	783,096	1,40	7,004	783,143	1,40	7,600	783,371	25,00	7,665	783,723	-66,67
28823+10,000	-5,822	783,297	-66,67	-5,700	783,379	5,00	-5,142	782,825	-1,40	-4,200	782,839	-1,40	783,462	782,897	783,512	0,050	3,600	782,948	1,40	7,004	782,995	1,40	7,600	783,223	25,00	7,738	783,527	-66,67
28824+0,000	-5,805	783,150	-66,67	-5,700	783,220	5,00	-5,142	782,667	-1,40	-4,200	782,680	-1,40	783,321	782,739	783,354	0,033	3,600	782,789	1,40	7,004	782,837	1,40	7,600	783,064	25,00	7,812	783,318	-66,67
28824+10,000	-5,803	782,981	-66,67	-5,700	783,050	5,00	-5,142	782,497	-1,40	-4,200	782,510	-1,40	783,163	782,569	783,184	0,021	3,600	782,619	1,40	7,004	782,667	1,40	7,600	782,894	25,00	7,939	783,064	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28825+0,000	-5,896	782,739	-66,67	-5,700	782,870	5,00	-5,142	782,317	-1,40	-4,200	782,330	-1,40	782,959	782,389	783,004	0,045	3,600	782,439	1,40	7,004	782,487	1,40	7,600	782,714	25,00	8,055	782,807	-66,67
28825+10,000	-5,976	782,495	-66,67	-5,700	782,679	5,00	-5,142	782,126	-1,40	-4,200	782,139	-1,40	782,745	782,198	782,813	0,068	3,600	782,248	1,40	7,004	782,296	1,40	7,600	782,523	25,00	7,989	782,660	-66,67
28826+0,000	-6,020	782,264	-66,67	-5,700	782,477	5,00	-5,142	781,924	-1,40	-4,200	781,937	-1,40	782,527	781,996	782,611	0,084	3,600	782,046	1,40	7,004	782,094	1,40	7,600	782,321	25,00	7,807	782,579	-66,67
28826+10,000	-6,006	782,060	-66,67	-5,700	782,264	5,00	-5,142	781,711	-1,40	-4,200	781,724	-1,40	782,312	781,783	782,398	0,086	3,600	781,833	1,40	5,749	781,863	1,40	6,345	782,091	25,00	6,696	782,253	-66,67
28827+0,000	-5,991	781,846	-66,67	-5,700	782,041	5,00	-5,142	781,487	-1,40	-4,200	781,501	-1,40	782,069	781,559	782,174	0,105	3,600	781,610	1,40				5,100	782,150	5,00			
28827+10,000	-6,036	781,583	-66,67	-5,700	781,806	5,00	-5,142	781,253	-1,40	-4,200	781,266	-1,40	781,835	781,325	781,940	0,105	3,600	781,376	1,40				5,100	781,916	5,00			
28828+0,000	-6,091	781,300	-66,67	-5,700	781,561	5,00	-5,142	781,008	-1,40	-4,200	781,021	-1,40	781,554	781,080	781,695	0,141	3,600	781,130	1,40				5,100	781,670	5,00			
28828+10,000	-6,094	781,043	-66,67	-5,700	781,305	5,00	-5,142	780,752	-1,40	-4,200	780,765	-1,40	781,284	780,824	781,439	0,155	3,600	780,875	1,40				5,100	781,415	5,00			
28829+0,000	-6,079	780,786	-66,67	-5,700	781,039	5,00	-5,142	780,486	-1,40	-4,200	780,499	-1,40	781,037	780,558	781,173	0,136	3,600	780,608	1,40				5,100	781,148	5,00			
28829+10,000	-6,064	780,518	-66,67	-5,700	780,761	5,00	-5,142	780,208	-1,40	-4,200	780,221	-1,40	780,779	780,280	780,895	0,116	3,600	780,330	1,40				5,100	780,870	5,00			
28830+0,000	-6,050	780,245	-66,67	-5,700	780,478	5,00	-5,142	779,925	-1,40	-4,200	779,938	-1,40	780,509	779,997	780,612	0,103	3,600	780,048	1,40				5,100	780,588	5,00			
28830+10,000	-6,016	779,985	-66,67	-5,700	780,196	5,00	-5,142	779,642	-1,40	-4,200	779,656	-1,40	780,234	779,714	780,329	0,095	3,600	779,765	1,40				5,100	780,305	5,00			
28831+0,000	-6,033	779,691	-66,67	-5,700	779,913	5,00	-5,142	779,359	-1,40	-4,200	779,373	-1,40	779,966	779,431	780,046	0,080	3,600	779,482	1,40				5,100	780,022	5,00			
28831+10,000	-6,110	779,376	-66,67	-5,700	779,649	5,00	-5,136	779,100	-0,94	-4,200	779,109	-0,94	779,684	779,149	779,764	0,080	3,600	779,182	0,94				5,100	779,722	5,00			
28832+0,000	-6,110	779,093	-66,67	-5,700	779,366	5,00	-5,136	778,818	-0,94	-4,200	778,826	-0,94	779,382	778,866	779,481	0,099	3,600	778,900	0,94				5,100	779,440	5,00			
28933+0,000	-6,110	776,374	-66,67	-5,700	776,647	5,00	-5,136	776,098	-0,94	-4,200	776,107	-0,94	776,633	776,146	776,761	0,128	3,600	776,180	0,94				5,100	776,720	5,00			
28933+10,000	-5,822	776,283	-66,67	-5,200	776,697	5,00	-5,096	776,150	2,00	-4,200	776,132	2,00	776,538	776,048	776,663	0,125	3,600	775,976	-2,00	7,097	775,801	-5,00	7,600	776,091	25,00	8,584	775,780	-66,67
28934+0,000	-5,802	776,198	-66,67	-5,200	776,599	5,00	-5,096	776,052	2,00	-4,200	776,034	2,00	776,464	775,950	776,565	0,101	3,600	775,878	-2,00	7,097	775,703	-5,00	7,600	775,993	25,00	8,588	775,679	-66,67
28935+0,000	-5,760	776,030	-66,67	-5,200	776,403	5,00	-5,096	775,856	2,00	-4,200	775,838	2,00	776,308	775,754	776,369	0,061	3,600	775,682	-2,00	7,097	775,507	-5,00	7,600	775,797	25,00	8,189	775,749	-66,67
28936+0,000	-5,697	775,875	-66,67	-5,200	776,207	5,00	-5,096	775,659	2,00	-4,200	775,642	2,00	776,151	775,558	776,173	0,022	3,600	775,486	-2,00	7,097	775,311	-5,00	7,600	775,601	25,00	7,968	775,700	-66,67
28937+0,000	-5,644	775,714	-66,67	-5,200	776,010	5,00	-5,096	775,463	2,00	-4,200	775,445	2,00	775,986	775,361	775,976	-0,010	3,600	775,289	-2,00	7,097	775,114	-5,00	7,600	775,404	25,00	8,192	775,355	-66,67
28937+18,736	-5,576	775,576	-66,67	-5,200	775,827	5,00	-5,096	775,279	2,00	-4,200	775,262	2,00	775,834	775,178	775,793	-0,041	3,600	775,106	-2,00	7,097	774,931	-5,00	7,600	775,221	25,00	8,069	775,253	-66,67
28938+0,000	-5,569	775,568	-66,67	-5,200	775,814	5,00	-5,096	775,267	2,00	-4,200	775,249	2,00	775,824	775,165	775,780	-0,044	3,600	775,093	-2,00	7,096	774,921	-4,91	7,600	775,210	25,00	8,060	775,249	-66,67
28939+0,000	-5,435	775,461	-66,67	-5,200	775,618	5,00	-5,096	775,071	2,00	-4,200	775,053	2,00	775,664	774,969	775,584	-0,080	3,600	774,897	-2,00	7,074	774,773	-3,56	7,600	775,348	5,00	8,058	775,507	100,00
28940+0,000	-5,375	775,321	-66,67	-5,200	775,437	5,00	-5,096	774,890	2,00	-4,200	774,872	2,00	775,523	774,788	775,403	-0,120	3,600	774,716	-2,00	7,054	774,640	-2,20	7,600	775,201	5,00	8,062	775,363	100,00
28940+2,942	-5,374	775,298	-66,67	-5,200	775,414	5,00	-5,096	774,867	2,00	-4,200	774,849	2,00	775,505	774,765	775,380	-0,125	3,600	774,693	-2,00	7,051	774,624	-2,00	7,600	775,183	5,00	8,093	775,376	100,00
28941+0,000	-5,272	775,197	-66,67	-5,200	775,245	5,00	-5,111	774,688	0,84	-4,200	774,680	0,84	775,412	774,645	775,260	-0,152	3,600	774,614	-0,84	7,034	774,585	-0,84	7,600	774,833	25,00	7,706	775,125	-66,67
28941+12,412				-5,200	775,139	5,00	-5,123	774,574		-4,200	774,574		775,345	774,574	775,189	-0,156	11,630	774,574		12,553	774,574		13,130	774,814	25,00	13,271	775,095	-66,67
28942+0,000	-5,404	775,082	100,00	-5,200	774,877	25,00	-5,130	774,508	-0,51	-4,200	774,512	-0,51	775,294	774,534	775,149	-0,145	10,238	774,587	0,51	11,154	774,592	0,51	11,738	775,127	5,00	12,188	775,277	100,00
28942+10,000	-5,462	775,059	100,00	-5,200	774,797	25,00	-5,139	774,421	-1,19	-4,200	774,432	-1,19	775,221	774,482	775,097	-0,124	8,876	774,588	1,19	9,783	774,599	1,19	10,376	774,828	25,00	10,921	774,858	-66,67
28943+0,000	-5,480	774,996	100,00	-5,200	774,716	25,00	-5,149	774,333	-1,87	-4,200	774,351	-1,87	775,154	774,430	775,045	-0,109	8,063	774,581	1,87	8,961	774,597	1,87	9,563	774,821	25,00	9,977	774,948	-66,67
28943+10,000	-5,511	774,946	100,00	-5,200	774,635	25,00	-5,159	774,246	-2,55	-4,200	774,270	-2,55	775,110	774,378	774,993	-0,117	7,814	774,577	2,55	8,703	774,600	2,55	9,314	774,817	25,00	10,146	774,675	-66,67
28944+0,000	-5,535	774,889	100,00	-5,200	774,555	25,00	-5,170	774,158	-3,23	-4,200	774,190	-3,23	775,072	774,325	774,940	-0,132	7,818	774,578	3,23	8,698	774,606	3,23	9,318	774,818	25,00	9,938	774,828	-66,67
28944+2,512	-5,540	774,875	100,00	-5,200	774,534	25,00	-5,172	774,136	-3,40	-4,200	774,169	-3,40	775,058	774,312	774,927	-0,131	7,818	774,578	3,40	8,696	774,608	3,40	9,318	774,818	25,00	10,127	774,705	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO													EIXO			LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28944+10,000	-5,531	774,826	100,00	-5,200	774,495	25,00	-5,172	774,097	-3,40	-4,200	774,130	-3,40	775,010	774,273	774,888	-0,122	7,818	774,539	3,40	8,695	774,569	3,40	9,318	774,779	25,00	10,548	774,385	-66,67
28945+0,000	-5,511	774,754	100,00	-5,200	774,443	25,00	-5,172	774,045	-3,40	-4,200	774,078	-3,40	774,907	774,221	774,836	-0,071	7,817	774,487	3,40	8,695	774,517	3,40	9,317	774,727	25,00	10,572	774,316	-66,67
28945+10,000	-5,503	774,694	100,00	-5,200	774,391	25,00	-5,172	773,993	-3,40	-4,200	774,026	-3,40	774,826	774,169	774,784	-0,042	7,816	774,434	3,40	8,694	774,464	3,40	9,316	774,674	25,00	11,416	773,701	-66,67
28946+0,000	-5,497	774,642	100,00	-5,200	774,345	25,00	-5,172	773,947	-3,40	-4,200	773,980	-3,40	774,729	774,123	774,738	0,009	7,816	774,389	3,40	8,694	774,418	3,40	9,316	774,629	25,00	11,284	773,743	-66,67
28946+10,000	-5,476	774,589	100,00	-5,200	774,313	25,00	-5,172	773,915	-3,40	-4,200	773,948	-3,40	774,627	774,091	774,706	0,079	7,815	774,357	3,40	8,693	774,387	3,40	9,315	774,597	25,00	11,693	773,438	-66,67
28947+0,000	-5,484	774,580	100,00	-5,200	774,296	25,00	-5,172	773,897	-3,40	-4,200	773,931	-3,40	774,591	774,073	774,688	0,097	7,815	774,339	3,40	8,693	774,369	3,40	9,315	774,579	25,00	11,515	773,539	-66,67
28947+10,000	-5,484	774,576	100,00	-5,200	774,292	25,00	-5,172	773,894	-3,40	-4,200	773,927	-3,40	774,548	774,070	774,685	0,137	7,814	774,335	3,40	8,692	774,365	3,40	9,314	774,575	25,00	12,224	773,062	-66,67
28948+0,000	-5,474	774,576	100,00	-5,200	774,302	25,00	-5,172	773,904	-3,40	-4,200	773,937	-3,40	774,558	774,080	774,695	0,137	7,814	774,346	3,40	8,692	774,376	3,40	9,314	774,586	25,00	12,401	772,954	-66,67
28948+10,000	-5,453	774,580	100,00	-5,200	774,327	25,00	-5,172	773,929	-3,40	-4,200	773,962	-3,40	774,539	774,105	774,720	0,181	7,813	774,370	3,40	8,691	774,400	3,40	9,313	774,610	25,00	12,599	772,846	-66,67
28949+0,000	-5,460	774,625	100,00	-5,200	774,365	25,00	-5,172	773,967	-3,40	-4,200	774,000	-3,40	774,484	774,143	774,758	0,274	7,813	774,409	3,40	8,691	774,439	3,40	9,313	774,649	25,00	12,697	772,819	-66,67
28949+10,000	-5,443	774,661	100,00	-5,200	774,418	25,00	-5,172	774,020	-3,40	-4,200	774,053	-3,40	774,483	774,196	774,811	0,328	7,812	774,461	3,40	8,690	774,491	3,40	9,312	774,701	25,00	12,733	772,847	-66,67
28950+0,000	-5,465	774,749	100,00	-5,200	774,485	25,00	-5,172	774,086	-3,40	-4,200	774,120	-3,40	774,719	774,262	774,877	0,158	7,812	774,528	3,40	8,690	774,558	3,40	9,312	774,768	25,00	12,315	773,192	-66,67
28950+10,000	-5,479	774,844	100,00	-5,200	774,565	25,00	-5,172	774,167	-3,40	-4,200	774,200	-3,40	774,431	774,343	774,958	0,527	7,811	774,609	3,40	8,689	774,638	3,40	9,311	774,849	25,00	12,620	773,069	-66,67
28951+0,000	-5,623	775,083	100,00	-5,200	774,660	25,00	-5,172	774,262	-3,40	-4,200	774,295	-3,40	774,647	774,438	775,053	0,406	7,811	774,703	3,40	8,689	774,733	3,40	9,311	774,943	25,00	12,299	773,377	-66,67
28951+10,000	-5,477	775,046	100,00	-5,200	774,769	25,00	-5,172	774,371	-3,40	-4,200	774,404	-3,40	774,600	774,547	775,162	0,562	7,810	774,812	3,40	8,688	774,842	3,40	9,310	775,052	25,00	12,239	773,526	-66,67
28952+0,000	-5,484	775,176	100,00	-5,200	774,892	25,00	-5,172	774,494	-3,40	-4,200	774,527	-3,40	774,621	774,670	775,285	0,664	7,810	774,935	3,40	8,688	774,965	3,40	9,310	775,175	25,00	12,051	773,774	-66,67
28952+10,000	-5,472	775,301	100,00	-5,200	775,029	25,00	-5,172	774,631	-3,40	-4,200	774,664	-3,40	774,659	774,807	775,422	0,763	7,809	775,072	3,40	8,687	775,102	3,40	9,309	775,312	25,00	11,928	773,993	-66,67
28952+10,696	-5,473	775,312	100,00	-5,200	775,039	25,00	-5,172	774,641	-3,40	-4,200	774,674	-3,40	774,662	774,817	775,432	0,770	7,809	775,082	3,40	8,687	775,112	3,40	9,309	775,322	25,00	11,924	774,005	-66,67
28953+0,000	-5,488	775,467	100,00	-5,200	775,180	25,00	-5,172	774,782	-3,40	-4,200	774,815	-3,40	774,863	774,958	775,573	0,710	7,809	775,223	3,40	8,687	775,253	3,40	9,309	775,463	25,00	11,811	774,222	-66,67
28953+10,000	-5,487	775,632	100,00	-5,200	775,345	25,00	-5,172	774,947	-3,40	-4,200	774,980	-3,40	775,165	775,123	775,738	0,573	7,808	775,388	3,40	8,686	775,418	3,40	9,308	775,628	25,00	11,692	774,465	-66,67
28954+0,000	-5,515	775,839	100,00	-5,200	775,524	25,00	-5,172	775,126	-3,40	-4,200	775,159	-3,40	775,429	775,302	775,917	0,488	7,808	775,568	3,40	8,686	775,597	3,40	9,308	775,808	25,00	11,442	774,811	-66,67
28954+10,000	-5,525	776,043	100,00	-5,200	775,718	25,00	-5,172	775,319	-3,40	-4,200	775,353	-3,40	775,687	775,495	776,110	0,423	7,807	775,761	3,40	8,685	775,791	3,40	9,307	776,001	25,00	11,259	775,126	-66,67
28955+0,000	-5,567	776,292	100,00	-5,200	775,925	25,00	-5,172	775,527	-3,40	-4,200	775,560	-3,40	775,786	775,703	776,318	0,532	7,807	775,968	3,40	8,685	775,998	3,40	9,307	776,208	25,00	11,390	775,246	-66,67
28955+10,000	-5,594	776,540	100,00	-5,200	776,146	25,00	-5,172	775,748	-3,40	-4,200	775,781	-3,40	776,056	775,924	776,539	0,483	7,806	776,189	3,40	8,684	776,219	3,40	9,306	776,429	25,00	10,903	775,791	-66,67
28956+0,000	-5,585	776,767	100,00	-5,200	776,382	25,00	-5,172	775,984	-3,40	-4,200	776,017	-3,40	776,398	776,160	776,775	0,377	7,806	776,425	3,40	8,684	776,455	3,40	9,306	776,665	25,00	11,061	775,921	-66,67
28956+10,000	-5,579	777,004	100,00	-5,200	776,625	25,00	-5,172	776,227	-3,40	-4,200	776,260	-3,40	776,662	776,403	777,018	0,356	7,805	776,668	3,40	8,683	776,698	3,40	9,305	776,908	25,00	10,528	776,519	-66,67
28957+0,000	-5,577	777,245	100,00	-5,200	776,868	25,00	-5,172	776,470	-3,40	-4,200	776,503	-3,40	777,049	776,646	777,261	0,212	7,805	776,911	3,40	8,683	776,941	3,40	9,305	777,151	25,00	10,098	777,049	-66,67
28957+10,000	-5,557	777,468	100,00	-5,200	777,111	25,00	-5,172	776,713	-3,40	-4,200	776,746	-3,40	777,240	776,889	777,504	0,264	7,804	777,154	3,40	8,682	777,184	3,40	9,304	777,394	25,00	9,871	777,443	-66,67
28958+0,000	-5,577	777,731	100,00	-5,200	777,355	25,00	-5,172	776,957	-3,40	-4,200	776,990	-3,40	777,440	777,132	777,747	0,307	7,804	777,398	3,40	8,682	777,428	3,40	9,304	777,638	25,00	9,513	777,925	-66,67
28958+10,000	-5,586	777,984	100,00	-5,200	777,598	25,00	-5,172	777,200	-3,40	-4,200	777,233	-3,40	777,678	777,376	777,991	0,313	7,803	777,641	3,40	8,681	777,671	3,40	9,303	778,181	5,00	9,823	778,400	100,00
28959+0,000	-5,576	778,217	100,00	-5,200	777,841	25,00	-5,172	777,443	-3,40	-4,200	777,476	-3,40	777,907	777,619	778,234	0,327	8,060	777,893	3,40	8,938	777,923	3,40	9,560	778,133	25,00	9,572	778,551	-66,67
28959+10,000	-5,583	778,467	100,00	-5,200	778,084	25,00	-5,172	777,686	-3,40	-4,200	777,719	-3,40	778,151	777,862	778,477	0,326	8,532	778,152	3,40	9,410	778,182	3,40	10,032	778,392	25,00	10,213	778,697	-66,67
28960+0,000										-4,200	777,962	-3,40	778,466	778,105	778,720	0,254	9,108	778,415	3,40	9,986	778,445	3,40	10,608	778,955	5,00	11,169	779,216	100,00
28960+10,000										-4,200	778,206	-3,40	778,887	778,348	778,963	0,076	9,787	778,681	3,40	10,665	778,711	3,40	11,287	778,921	25,00	11,365	779,296	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28960+18,881										-4,200	778,422	-3,40	779,310	778,564	779,179	-0,131	10,478	778,921	3,40	11,356	778,950	3,40	11,978	779,161	25,00	12,082	779,517	-66,67
28961+0,000										-4,200	778,452	-3,32	779,323	778,592	779,207	-0,116	10,571	778,943	3,32	11,450	778,972	3,32	12,071	779,183	25,00	12,166	779,545	-66,67
28961+10,000										-4,200	778,724	-2,64	779,444	778,835	779,450	0,006	11,453	779,138	2,64	12,341	779,161	2,64	12,953	779,378	25,00	13,023	779,746	-66,67
28962+0,000										-4,200	778,996	-1,96	779,997	779,078	779,693	-0,304	12,415	779,322	1,96	13,311	779,339	1,96	13,915	779,562	25,00	13,974	779,927	-66,67
28962+10,000										-4,200	779,267	-1,28	780,126	779,321	779,936	-0,190	13,435	779,493	1,28	14,340	779,505	1,28	14,935	779,733	25,00	15,133	779,996	-66,67
28963+0,000										-4,200	779,537	-0,60	780,185	779,562	780,177	-0,008	14,492	779,650	0,60	15,406	779,655	0,60	15,992	780,190	5,00	16,371	780,269	100,00
28963+8,881										-4,200	779,775		780,420	779,775	780,390	-0,030	15,427	779,775		16,350	779,775		16,927	780,315	5,00	17,310	780,398	100,00
28964+0,000										-4,200	780,072	0,76	780,710	780,040	780,655	-0,055	6,100	779,994	-0,76	7,033	779,987	-0,76	7,600	780,534	5,00	8,008	780,642	100,00
28964+18,292										-4,200	780,555	2,00	781,162	780,471	781,086	-0,076	6,100	780,349	-2,00	7,051	780,330	-2,00	7,600	780,889	5,00	8,061	781,050	100,00
28965+0,000										-4,200	780,595	2,00	781,209	780,511	781,126	-0,083	6,100	780,389	-2,00	7,053	780,369	-2,12	7,600	780,929	5,00	8,091	781,120	100,00
28966+0,000										-4,200	781,066	2,00	781,702	780,982	781,597	-0,105	6,100	780,860	-2,00	7,073	780,826	-3,48	7,600	781,400	5,00	8,252	781,751	100,00
28967+0,000										-4,200	781,536	2,00	782,242	781,452	782,067	-0,175	3,600	781,380	-2,00	7,095	781,211	-4,84	7,600	781,799	5,00	8,455	782,354	100,00
28967+2,410										-4,200	781,593	2,00	782,302	781,509	782,124	-0,178	3,600	781,437	-2,00	7,097	781,262	-5,00	7,600	781,852	5,00	8,458	782,409	100,00
28968+0,000										-4,200	782,006	2,00	782,692	781,922	782,537	-0,155	3,600	781,850	-2,00	7,097	781,675	-5,00	7,600	782,265	5,00	8,494	782,859	100,00
28969+0,000										-4,200	782,477	2,00	783,169	782,393	783,008	-0,161	3,600	782,321	-2,00	7,097	782,146	-5,00	7,600	782,736	5,00	8,432	783,268	100,00
28970+0,000										-4,200	782,947	2,00	783,616	782,863	783,478	-0,138	3,600	782,791	-2,00	7,097	782,616	-5,00	7,600	783,206	5,00	8,434	783,739	100,00
28971+0,000										-4,200	783,417	2,00	784,071	783,333	783,948	-0,123	3,600	783,261	-2,00	7,097	783,086	-5,00	7,600	783,676	5,00	8,437	784,213	100,00
28972+0,000										-4,200	783,887	2,00	784,457	783,803	784,418	-0,039	3,600	783,731	-2,00	7,097	783,557	-5,00	7,600	784,146	5,00	8,383	784,630	100,00
28973+0,000										-4,200	784,358	2,00	785,013	784,274	784,889	-0,124	3,600	784,202	-2,00	7,097	784,027	-5,00	7,600	784,617	5,00	8,468	785,184	100,00
28974+0,000										-4,200	784,828	2,00	785,555	784,744	785,359	-0,196	3,600	784,672	-2,00	7,097	784,497	-5,00	7,600	785,087	5,00	8,542	785,729	100,00
28975+0,000										-4,200	785,298	2,00	785,961	785,214	785,829	-0,132	3,600	785,142	-2,00	7,097	784,967	-5,00	7,600	785,557	5,00	8,081	785,738	100,00
28976+0,000										-4,200	785,769	2,00	786,336	785,685	786,300	-0,036	3,600	785,613	-2,00	7,097	785,438	-5,00	7,600	786,028	5,00	8,894	787,021	100,00
28977+0,000										-4,200	786,239	2,00	786,789	786,155	786,770	-0,019	3,600	786,083	-2,00	7,097	785,908	-5,00	7,600	786,498	5,00	8,506	787,104	100,00
28978+0,000										-4,200	786,709	2,00	787,298	786,625	787,240	-0,058	3,600	786,553	-2,00	7,097	786,378	-5,00	7,600	786,968	5,00	8,217	787,285	100,00
28979+0,000										-4,200	787,161	2,00	787,613	787,077	787,692	0,079	3,600	787,005	-2,00	7,097	786,830	-5,00	7,600	787,120	25,00	7,682	787,410	-66,67
28980+0,000										-4,200	787,581	2,00	788,029	787,497	788,112	0,083	3,600	787,425	-2,00	7,097	787,251	-5,00	7,600	787,540	25,00	8,312	787,411	-66,67
28981+0,000										-4,200	787,970	2,00	788,315	787,886	788,501	0,186	3,600	787,814	-2,00	7,097	787,639	-5,00	7,600	787,929	25,00	8,256	787,837	-66,67
28982+0,000										-4,200	788,327	2,00	788,546	788,243	788,858	0,312	3,600	788,171	-2,00	7,097	787,996	-5,00	7,600	788,286	25,00	8,361	788,124	-66,67
28983+0,000										-4,200	788,653	2,00	788,840	788,569	789,184	0,344	3,600	788,497	-2,00	7,097	788,322	-5,00	7,600	788,612	25,00	8,420	788,410	-66,67
28984+0,000										-4,200	788,946	2,00	789,121	788,862	789,477	0,356	3,600	788,790	-2,00	7,097	788,615	-5,00	7,600	788,905	25,00	8,438	788,692	-66,67
28985+0,000										-4,200	789,208	2,00	789,384	789,124	789,739	0,355	3,600	789,052	-2,00	7,097	788,877	-5,00	7,600	789,167	25,00	8,399	788,980	-66,67
28986+0,000										-4,200	789,439	2,00	789,564	789,355	789,970	0,406	3,600	789,283	-2,00	7,097	789,108	-5,00	7,600	789,398	25,00	8,614	789,067	-66,67
28987+0,000										-4,200	789,637	2,00	789,851	789,553	790,168	0,317	3,600	789,481	-2,00	7,097	789,306	-5,00	7,600	789,596	25,00	8,385	789,418	-66,67
28988+0,000										-4,200	789,804	2,00	790,059	789,720	790,335	0,276	3,600	789,648	-2,00	7,097	789,474	-5,00	7,600	789,763	25,00	8,195	789,712	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28989+0,000										-4,200	789,940	2,00	790,354	789,856	790,471	0,117	3,600	789,784	-2,00	7,097	789,609	-5,00	7,600	790,199	5,00	7,957	790,256	100,00
28990+0,000										-4,200	790,043	2,00	790,526	789,959	790,574	0,048	3,600	789,887	-2,00	7,097	789,713	-5,00	7,600	790,002	25,00	7,649	790,315	-66,67
28991+0,000										-4,200	790,115	2,00	790,614	790,031	790,646	0,032	3,600	789,959	-2,00	7,097	789,785	-5,00	7,600	790,374	5,00	7,966	790,441	100,00
28992+0,000										-4,200	790,156	2,00	790,724	790,072	790,687	-0,037	3,600	790,000	-2,00	7,097	789,825	-5,00	7,600	790,415	5,00	8,200	790,714	100,00
28992+15,620										-4,200	790,165	2,00	790,847	790,081	790,696	-0,151	3,600	790,009	-2,00	7,097	789,834	-5,00	7,600	790,424	5,00	8,228	790,752	100,00
28992+19,658										-4,200	790,164	2,00	790,810	790,080	790,695	-0,115	3,600	790,008	-2,00	7,097	789,834	-5,00	7,600	790,423	5,00	8,239	790,763	100,00
28993+0,000										-4,200	790,165	2,01	790,807	790,080	790,695	-0,112	3,600	790,008	-2,01	7,097	789,833	-5,00	7,600	790,423	5,00	8,241	790,764	100,00
28993+2,351										-4,200	790,168	2,11	790,785	790,079	790,694	-0,091	3,600	790,003	-2,11	7,097	789,828	-5,00	7,600	790,418	5,00	8,252	790,770	100,00
28993+10,000										-4,200	790,175	2,43	790,750	790,073	790,688	-0,062	3,600	789,985	-2,43	7,097	789,811	-5,00	7,600	790,400	5,00	8,304	790,804	100,00
28994+0,000										-4,200	790,177	2,84	790,726	790,057	790,672	-0,054	3,600	789,955	-2,84	7,097	789,780	-5,00	7,600	790,370	5,00	8,292	790,762	100,00
28994+10,000										-4,200	790,171	3,25	790,691	790,034	790,649	-0,042	3,600	789,917	-3,25	7,097	789,742	-5,00	7,600	790,332	5,00	8,276	790,708	100,00
28995+0,000										-4,200	790,157	3,66	790,644	790,003	790,618	-0,026	3,600	789,871	-3,66	7,097	789,696	-5,00	7,600	790,286	5,00	8,314	790,700	100,00
28995+10,000										-4,200	790,135	4,08	790,592	789,963	790,578	-0,014	3,600	789,817	-4,08	7,097	789,642	-5,00	7,600	790,232	5,00	8,314	790,646	100,00
28996+0,000										-4,200	790,105	4,49	790,526	789,916	790,531	0,005	3,600	789,755	-4,49	7,097	789,580	-5,00	7,600	790,170	5,00	8,291	790,561	100,00
28996+10,000										-4,200	790,067	4,90	790,528	789,861	790,476	-0,052	3,600	789,685	-4,90	7,097	789,510	-5,00	7,600	790,100	5,00	8,076	790,276	100,00
28996+12,351										-4,200	790,057	5,00	790,485	789,847	790,462	-0,023	3,600	789,667	-5,00	7,097	789,492	-5,00	7,600	790,082	5,00	8,040	790,222	100,00
28997+0,000										-4,200	790,008	5,00	790,342	789,798	790,413	0,071	3,600	789,618	-5,00	7,097	789,443	-5,00	7,600	790,033	5,00	7,911	790,044	100,00
28997+10,000										-4,200	789,937	5,00	790,129	789,727	790,342	0,213	3,600	789,547	-5,00	7,097	789,373	-5,00	7,600	789,662	25,00	8,045	789,666	-66,67
28998+0,000										-4,200	789,864	5,00	789,778	789,654	790,269	0,491	3,600	789,474	-5,00	7,097	789,299	-5,00	7,600	789,589	25,00	8,624	789,206	-66,67
28998+10,000										-4,200	789,790	5,00	789,598	789,580	790,195	0,597	3,600	789,400	-5,00	7,097	789,225	-5,00	7,600	789,515	25,00	9,300	788,682	-66,67
28999+0,000										-4,200	789,716	5,00	789,304	789,506	790,121	0,817	3,600	789,326	-5,00	7,097	789,152	-5,00	7,600	789,441	25,00	9,865	788,231	-66,67
28999+10,000										-4,510	789,658	5,00	789,072	789,433	790,048	0,976	3,600	789,253	-5,00	7,097	789,078	-5,00	7,600	789,368	25,00	10,572	787,687	-66,67
29000+0,000										-4,510	789,585	5,00	788,889	789,359	789,974	1,085	3,600	789,179	-5,00	7,097	789,004	-5,00	7,600	789,294	25,00	11,347	787,096	-66,67
29000+10,000										-4,510	789,511	5,00	788,811	789,285	789,900	1,089	3,600	789,105	-5,00	7,097	788,931	-5,00	7,600	789,220	25,00	11,859	786,681	-66,67
29001+0,000										-4,510	789,437	5,00	788,726	789,212	789,827	1,101	3,600	789,032	-5,00	7,097	788,857	-5,00	7,600	789,147	25,00	12,361	786,273	-66,67
29001+10,000										-4,510	789,364	5,00	788,564	789,138	789,753	1,189	3,600	788,958	-5,00	7,097	788,783	-5,00	7,600	789,073	25,00	13,123	785,691	-66,67
29002+0,000										-4,510	789,290	5,00	788,394	789,064	789,679	1,285	3,600	788,884	-5,00	7,097	788,710	-5,00	7,600	788,999	25,00	13,850	785,133	-66,67
29002+10,000										-4,510	789,216	5,00	788,360	788,991	789,606	1,246	3,600	788,811	-5,00	7,097	788,636	-5,00	7,600	788,926	25,00	14,369	784,713	-66,67
29003+0,000										-4,510	789,143	5,00	788,253	788,917	789,532	1,279	3,600	788,737	-5,00	7,097	788,562	-5,00	7,600	788,852	25,00	15,260	784,045	-66,67
29003+10,000										-4,200	789,053	5,00	788,030	788,843	789,458	1,428	3,600	788,663	-5,00	7,097	788,489	-5,00	7,600	788,778	25,00	16,069	783,432	-66,67
29004+0,000										-4,200	788,980	5,00	787,880	788,770	789,385	1,505	3,600	788,590	-5,00	7,097	788,415	-5,00	7,600	788,705	25,00	16,035	783,382	-66,67
29004+10,000										-4,200	788,906	5,00	787,879	788,696	789,311	1,432	3,600	788,516	-5,00	7,097	788,341	-5,00	7,600	788,631	25,00	15,798	783,466	-66,67
29005+0,000										-4,200	788,832	5,00	787,751	788,622	789,237	1,486	3,600	788,442	-5,00	7,097	788,268	-5,00	7,600	788,557	25,00	15,642	783,496	-66,67
29005+10,000										-4,200	788,759	5,00	787,774	788,549	789,164	1,390	3,600	788,369	-5,00	7,097	788,194	-5,00	7,600	788,484	25,00	14,630	784,097	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
29006+0,000										-4,200	788,685	5,00	787,889	788,475	789,090	1,201	3,600	788,295	-5,00	7,097	788,120	-5,00	7,600	788,410	25,00	13,402	784,842	-66,67
29006+9,084										-4,200	788,613	5,00	788,139	788,403	789,018	0,879	3,600	788,223	-5,00	7,097	788,048	-5,00	7,600	788,338	25,00	11,675	785,922	-66,67
29006+10,000										-4,200	788,606	5,00	788,132	788,396	789,011	0,879	3,600	788,216	-5,00	7,097	788,041	-5,00	7,600	788,331	25,00	11,503	786,029	-66,67
29007+0,000	-5,470	789,152	100,00	-5,200	788,881	25,00	-5,058	788,559	5,00	-4,200	788,516	5,00	788,067	788,306	788,921	0,854	6,098	788,002	-5,00	7,095	787,952	-5,00	7,598	788,242	25,00	9,864	787,031	-66,67
29007+10,000	-5,479	789,061	100,00	-5,200	788,783	25,00	-5,058	788,461	5,00	-4,200	788,418	5,00	788,348	788,208	788,823	0,475	6,098	787,903	-5,00	7,095	787,853	-5,00	7,598	788,143	25,00	8,942	787,546	-66,67
29008+0,000	-5,487	788,968	100,00	-5,200	788,680	25,00	-5,058	788,358	5,00	-4,200	788,315	5,00	788,206	788,105	788,720	0,514	6,098	787,800	-5,00	7,095	787,750	-5,00	7,598	788,040	25,00	8,365	787,829	-66,67
29008+10,000	-5,511	788,888	100,00	-5,200	788,577	25,00	-5,058	788,254	5,00	-4,200	788,212	5,00	788,097	788,002	788,617	0,520	6,098	787,697	-5,00	7,095	787,647	-5,00	7,598	787,937	25,00	8,141	787,875	-66,67
29009+0,000	-5,526	788,797	100,00	-5,200	788,471	25,00	-5,058	788,149	5,00	-4,200	788,106	5,00	788,070	787,896	788,511	0,441	6,098	787,592	-5,00	7,095	787,542	-5,00	7,598	787,832	25,00	7,974	787,881	-66,67
29009+10,000	-5,524	788,689	100,00	-5,200	788,365	25,00	-5,058	788,043	5,00	-4,200	788,000	5,00	788,026	787,790	788,405	0,379	6,098	787,485	-5,00	7,095	787,435	-5,00	7,598	787,725	25,00	7,817	787,879	-66,67
29010+0,000	-5,543	788,600	100,00	-5,200	788,256	25,00	-5,058	787,934	5,00	-4,200	787,891	5,00	787,927	787,681	788,296	0,369	13,231	787,020	-5,00	14,229	786,970	-5,00	14,731	787,560	5,00	15,171	787,700	100,00
29010+10,000	-5,548	788,494	100,00	-5,200	788,147	25,00	-5,058	787,824	5,00	-4,200	787,782	5,00	787,848	787,572	788,187	0,339	11,931	786,975	-5,00	12,928	786,925	-5,00	13,431	787,515	5,00	13,733	787,517	100,00
29011+0,000	-5,539	788,375	100,00	-5,200	788,037	25,00	-5,058	787,714	5,00	-4,200	787,672	5,00	787,774	787,462	788,077	0,303	10,787	786,922	-5,00	11,785	786,872	-5,00	12,287	787,462	5,00	12,594	787,469	100,00
29011+10,000	-5,516	788,243	100,00	-5,200	787,927	25,00	-5,058	787,604	5,00	-4,200	787,562	5,00	787,691	787,352	787,967	0,276	9,801	786,862	-5,00	10,799	786,812	-5,00	11,301	787,402	5,00	11,635	787,435	100,00
29012+0,000	-5,481	788,098	100,00	-5,200	787,817	25,00	-5,058	787,494	5,00	-4,200	787,452	5,00	787,560	787,242	787,857	0,297	8,973	786,793	-5,00	9,970	786,743	-5,00	10,473	787,333	5,00	10,797	787,357	100,00
29012+10,000	-5,418	787,925	100,00	-5,200	787,707	25,00	-5,058	787,384	5,00	-4,200	787,342	5,00	787,523	787,132	787,747	0,224	8,302	786,716	-5,00	9,300	786,667	-5,00	9,802	787,256	5,00	10,121	787,275	100,00
29013+0,000				-5,200	787,797	5,00	-5,058	787,274	5,00	-4,200	787,232	5,00	787,434	787,022	787,637	0,203	7,790	786,632	-5,00	8,787	786,582	-5,00	9,290	787,172	5,00	9,625	787,207	100,00
29013+10,000	-5,229	787,668	-66,67	-5,200	787,687	5,00	-5,058	787,164	5,00	-4,200	787,122	5,00	787,313	786,912	787,527	0,214	7,436	786,540	-5,00	8,433	786,490	-5,00	8,936	787,080	5,00	9,302	787,145	100,00
29014+0,000	-5,243	787,548	-66,67	-5,200	787,577	5,00	-5,058	787,054	5,00	-4,200	787,012	5,00	787,243	786,802	787,417	0,174	7,240	786,440	-5,00	8,238	786,390	-5,00	8,740	786,980	5,00	9,200	787,139	100,00
29014+10,000	-5,243	787,438	-66,67	-5,200	787,467	5,00	-5,058	786,944	5,00	-4,200	786,902	5,00	787,182	786,692	787,307	0,125	7,240	786,330	-5,00	8,238	786,280	-5,00	8,740	786,870	5,00	9,200	787,029	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28726+10,000										799,185	798,601	799,216	0,031	5,785	799,100	-2,00	6,100	799,084	-5,00	7,600	798,709	25,00	8,021	798,774	-66,67
28727+0,000										799,194	798,642	799,257	0,063	5,107	799,155	-2,00	6,100	799,105	-5,00	7,600	798,730	25,00	8,216	798,664	-66,67
28727+10,000										799,199	798,671	799,286	0,087	4,379	799,199	-2,00	6,100	799,113	-5,00	7,600	798,738	25,00	8,444	798,520	-66,67
28728+0,000										799,260	798,689	799,304	0,044	3,601	799,232	-2,00	6,100	799,107	-5,00	7,600	798,732	25,00	8,790	798,284	-66,67
28728+10,000										799,318	798,696	799,311	-0,007	3,600	799,239	-2,00	6,100	799,114	-5,00	7,600	798,739	25,00	9,011	798,143	-66,67
28728+18,401										799,281	798,693	799,308	0,027	3,600	799,236	-2,00	6,100	799,111	-5,00	7,600	798,736	25,00	9,183	798,025	-66,67
28729+0,000										799,271	798,691	799,306	0,035	3,600	799,234	-2,00	6,100	799,109	-5,00	7,600	798,734	25,00	9,220	797,999	-66,67
28729+10,000										799,210	798,675	799,290	0,080	3,600	799,218	-2,00	6,100	799,093	-5,00	7,600	798,718	25,00	9,325	797,913	-66,67
28730+0,000										799,150	798,648	799,263	0,113	3,600	799,191	-2,00	6,100	799,066	-5,00	7,600	798,691	25,00	9,281	797,915	-66,67
28730+10,000										799,103	798,609	799,224	0,121	3,600	799,152	-2,00	6,100	799,027	-5,00	7,600	798,652	25,00	9,240	797,903	-66,67
28731+0,000										799,020	798,558	799,173	0,153	3,600	799,101	-2,00	6,100	798,976	-5,00	7,600	798,601	25,00	9,120	797,933	-66,67
28731+10,000										798,890	798,497	799,112	0,222	3,600	799,040	-2,00	6,100	798,915	-5,00	7,600	798,540	25,00	8,707	798,147	-66,67
28732+0,000							-0,543	799,049	2,00	798,735	798,424	799,039	0,304	3,600	798,967	-2,00	6,100	798,842	-5,00	7,600	798,467	25,00	8,284	798,355	-66,67
28732+5,532							-0,907	799,011	2,00	798,647	798,378	798,993	0,346	3,600	798,921	-2,00	6,100	798,796	-5,00	7,600	798,421	25,00	8,524	798,150	-66,67
28732+10,000							-1,202	798,978	2,00	798,612	798,339	798,954	0,342	3,600	798,882	-2,00	6,100	798,757	-5,00	7,600	798,382	25,00	8,289	798,268	-66,67
28733+0,000							-1,826	798,895	2,00	798,468	798,243	798,858	0,390	3,600	798,786	-2,00	6,100	798,661	-5,00	7,600	798,286	25,00	8,149	798,265	-66,67
28733+10,000							-2,401	798,799	2,00	798,369	798,136	798,751	0,382	3,600	798,679	-2,00	6,100	798,554	-5,00	7,600	798,179	25,00	8,142	798,162	-66,67
28734+0,000							-2,924	798,696	2,00	798,301	798,023	798,638	0,337	3,600	798,566	-2,00	6,100	798,441	-5,00	7,600	798,066	25,00	8,291	797,950	-66,67
28734+10,000							-3,398	798,593	2,00	798,178	797,910	798,525	0,347	3,600	798,453	-2,00	6,100	798,328	-5,00	7,600	797,953	25,00	7,850	798,131	-66,67
28735+0,000							-3,821	798,488	2,00	798,028	797,797	798,412	0,384	3,600	798,340	-2,00	6,100	798,215	-5,00	7,600	797,840	25,00	8,057	797,880	-66,67
28735+10,000							-4,195	798,383	2,00	797,926	797,684	798,299	0,373	3,600	798,227	-2,00	6,100	798,102	-5,00	7,600	797,727	25,00	7,958	797,834	-66,67
28735+12,666							-4,286	798,355	2,00	797,906	797,654	798,269	0,363	3,600	798,197	-2,00	6,100	798,072	-5,00	7,600	797,697	25,00	8,034	797,753	-66,67
28736+0,000							-4,518	798,276	2,00	797,810	797,571	798,186	0,376	3,600	798,114	-2,00	6,100	797,989	-5,00	7,600	797,614	25,00	8,410	797,419	-66,67
28736+10,000							-4,792	798,169	2,00	797,685	797,458	798,073	0,388	3,600	798,001	-2,00	6,100	797,876	-5,00	7,600	797,501	25,00	8,436	797,289	-66,67
28737+0,000							-5,015	798,060	2,00	797,581	797,345	797,960	0,379	3,600	797,888	-2,00	6,100	797,763	-5,00	7,600	797,388	25,00	8,391	797,206	-66,67
28737+10,000							-5,189	797,951	2,00	797,479	797,232	797,847	0,368	3,600	797,775	-2,00	6,100	797,650	-5,00	7,600	797,275	25,00	8,282	797,165	-66,67
28738+0,000							-5,312	797,837	2,00	797,345	797,116	797,731	0,386	3,600	797,659	-2,00	6,100	797,534	-5,00	7,600	797,159	25,00	8,264	797,061	-66,67
28738+10,000							-5,386	797,716	2,00	797,198	796,993	797,608	0,410	3,600	797,536	-2,00	6,100	797,411	-5,00	7,600	797,036	25,00	8,032	797,093	-66,67
28738+19,797							-4,200	797,566	2,00	797,166	796,867	797,482	0,316	3,600	797,410	-2,00	6,100	797,285	-5,00	7,600	796,910	25,00	7,641	797,227	-66,67
28739+0,000							-4,200	797,563	2,00	797,164	796,864	797,479	0,315	3,600	797,407	-2,00	6,100	797,282	-5,00	7,600	796,907	25,00	7,639	797,226	-66,67
28740+0,000							-4,200	797,286	2,00	796,902	796,587	797,202	0,300	3,600	797,130	-2,00	6,100	797,005	-5,00	7,600	796,630	25,00	7,695	796,911	-66,67
28741+0,000							-4,200	796,983	2,00	796,832	796,284	796,899	0,067	3,600	796,827	-2,00	6,100	796,702	-5,00	7,600	796,627	5,00	8,152	796,879	100,00
28742+0,000							-4,200	796,654	2,00	796,731	795,955	796,570	-0,161	3,600	796,498	-2,00	6,100	796,373	-5,00	7,600	796,298	5,00	8,624	797,021	100,00
28743+0,000							-4,200	796,299	2,00	796,343	795,600	796,215	-0,128	3,600	796,143	-2,00	6,100	796,018	-5,00	7,600	795,943	5,00	8,937	796,980	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28744+0,000							-4,505	795,924	2,00	795,934	795,219	795,834	-0,100	4,114	795,752	-2,00	6,100	795,653	-5,00	7,600	795,578	5,00	8,799	796,476	100,00
28745+0,000							-4,505	795,518	2,00	795,484	794,813	795,428	-0,056	5,143	795,325	-2,00	6,100	795,277	-5,00	7,600	795,202	5,00	8,465	795,767	100,00
28746+0,000							-4,505	795,089	2,00	795,070	794,384	794,999	-0,071	6,171	794,876	-2,00				7,671	794,801	5,00	8,614	795,443	100,00
28747+0,000							-4,505	794,657	2,00	794,344	793,952	794,567	0,223	7,200	794,423	-2,00				8,700	794,348	5,00	9,350	794,697	100,00
28748+0,000							-4,505	794,225	2,00	793,942	793,520	794,135	0,193	7,200	793,991	-2,00				8,700	793,616	25,00	9,132	793,673	-66,67
28749+0,000							-4,505	793,839	2,00	792,946	793,134	793,749	0,803	8,111	793,587	-2,00				9,611	793,212	25,00	10,375	793,048	-66,67
28750+0,000							-4,505	793,545	2,00	792,327	792,840	793,455	1,128	3,600	793,383	-2,00	6,100	793,258	-5,00	7,600	793,183	5,00			
28751+0,000							-4,505	793,344	2,00	792,003	792,639	793,254	1,251	3,600	793,182	-2,00	6,100	793,057	-5,00	7,600	792,982	5,00			
28752+0,000							-4,505	793,227	2,00	791,340	792,522	793,137	1,797	3,600	793,065	-2,00	6,100	792,940	-5,00	7,600	792,865	5,00			
28753+0,000							-4,505	793,127	2,00	790,820	792,422	793,037	2,217	3,600	792,965	-2,00	6,100	792,840	-5,00	7,600	792,765	5,00			
28754+0,000							-4,505	793,027	2,00	790,414	792,322	792,937	2,523	3,600	792,865	-2,00	6,100	792,740	-5,00	7,600	792,665	5,00			
28755+0,000							-4,505	792,927	2,00	789,510	792,222	792,837	3,327	3,600	792,765	-2,00	6,100	792,640	-5,00	7,600	792,565	5,00			
28756+0,000							-4,505	792,827	2,00	790,301	792,122	792,737	2,436	3,600	792,665	-2,00	6,100	792,540	-5,00	7,600	792,465	5,00			
28757+0,000							-4,505	792,727	2,00	790,079	792,022	792,637	2,558	3,600	792,565	-2,00	6,100	792,440	-5,00	7,600	792,065	25,00	16,665	786,367	-66,67
28758+0,000							-4,505	792,627	2,00	789,907	791,922	792,537	2,630	3,600	792,465	-2,00	6,100	792,340	-5,00	7,600	791,965	25,00	17,287	785,852	-66,67
28759+0,000							-4,505	792,527	2,00	790,014	791,822	792,437	2,423	3,600	792,365	-2,00	6,100	792,240	-5,00	7,600	791,865	25,00	16,407	786,339	-66,67
28760+0,000							-4,505	792,427	2,00	789,913	791,722	792,337	2,424	3,600	792,265	-2,00	6,100	792,140	-5,00	7,600	791,765	25,00	15,366	786,933	-66,67
28761+0,000							-4,505	792,327	2,00	789,836	791,622	792,237	2,401	3,600	792,165	-2,00	6,100	792,040	-5,00	7,600	791,665	25,00	14,479	787,425	-66,67
28762+0,000							-4,505	792,227	2,00	789,550	791,522	792,137	2,587	3,600	792,065	-2,00	6,100	791,940	-5,00	7,600	791,565	25,00	13,754	787,808	-66,67
28763+0,000							-4,505	792,138	2,00	790,086	791,433	792,048	1,962	3,600	791,976	-2,00	6,100	791,851	-5,00	7,600	791,476	25,00	13,073	788,172	-66,67
28764+0,000							-4,505	792,119	2,00	790,045	791,414	792,029	1,984	3,600	791,957	-2,00	6,100	791,832	-5,00	7,600	791,457	25,00	12,463	788,560	-66,67
28765+0,000							-4,505	792,183	2,00	790,445	791,478	792,093	1,648	3,600	792,021	-2,00	6,100	791,896	-5,00	7,600	791,521	25,00	11,504	789,263	-66,67
28766+0,000							-4,505	792,328	2,00	791,446	791,623	792,238	0,792	3,600	792,166	-2,00	6,100	792,041	-5,00	7,600	791,666	25,00	10,557	790,040	-66,67
28767+0,000							-4,505	792,556	2,00	791,953	791,851	792,466	0,513	3,600	792,394	-2,00	3,876	792,380	-5,00	5,376	792,005	25,00	6,870	791,353	-66,67
28768+0,000							-4,505	792,854	2,00	792,434	792,149	792,764	0,330	7,683	792,611	-2,00				9,183	792,236	25,00	10,739	791,544	-66,67
28769+0,000							-4,505	793,163	2,00	792,680	792,458	793,073	0,393	7,200	792,929	-2,00				8,700	792,554	25,00	8,755	792,863	-66,67
28770+0,000							-4,505	793,472	2,00	793,026	792,767	793,382	0,356	7,200	793,238	-2,00				8,700	793,163	5,00	9,141	793,304	100,00
28771+0,000							-4,505	793,781	2,00	793,679	793,076	793,691	0,012	7,200	793,547	-2,00				8,700	793,472	5,00	9,463	793,935	100,00
28772+0,000							-4,505	794,090	2,00	793,998	793,385	794,000	0,002	7,200	793,856	-2,00				8,700	793,781	5,00	9,622	794,403	100,00
28773+0,000							-4,505	794,364	2,00	794,288	793,659	794,274	-0,014	7,200	794,130	-2,00				8,700	794,055	5,00	9,831	794,886	100,00
28774+0,000							-4,505	794,566	2,00	794,409	793,861	794,476	0,067	7,200	794,332	-2,00				8,700	794,257	5,00	10,004	795,261	100,00
28775+0,000							-4,505	794,697	2,00	794,681	793,992	794,607	-0,074	6,171	794,483	-2,00				7,671	794,408	5,00	8,539	794,976	100,00
28776+0,000							-4,505	794,757	2,00	794,401	794,052	794,667	0,266	5,143	794,564	-2,00	6,100	794,516	-5,00	7,600	794,141	25,00	8,068	794,174	-66,67
28777+0,000							-4,505	794,745	2,00	794,032	794,040	794,655	0,623	4,114	794,573	-2,00	6,100	794,474	-5,00	7,600	794,099	25,00	8,298	793,978	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28778+0,000							-4,505	794,663	2,00	793,800	793,958	794,573	0,773	3,600	794,501	-2,00	6,100	794,376	-5,00	7,600	794,001	25,00	8,441	793,785	-66,67
28779+0,000							-4,505	794,509	2,00	793,630	793,804	794,419	0,789	3,600	794,347	-2,00	6,100	794,222	-5,00	7,600	793,847	25,00	8,557	793,553	-66,67
28780+0,000							-4,505	794,284	2,00	793,498	793,579	794,194	0,696	3,600	794,122	-2,00	6,100	793,997	-5,00	7,600	793,622	25,00	8,770	793,186	-66,67
28781+0,000							-4,505	794,023	2,00	793,099	793,318	793,933	0,834	3,600	793,861	-2,00	6,100	793,736	-5,00	7,600	793,361	25,00	8,900	792,839	-66,67
28782+0,000							-4,505	793,762	2,00	792,910	793,057	793,672	0,762	3,600	793,600	-2,00	6,100	793,475	-5,00	7,600	793,100	25,00	9,054	792,476	-66,67
28783+0,000							-4,505	793,502	2,00	792,814	792,796	793,411	0,597	3,600	793,339	-2,00	6,100	793,214	-5,00	7,600	792,839	25,00	9,305	792,048	-66,67
28784+0,000							-4,505	793,241	2,00	792,471	792,536	793,151	0,680	3,600	793,079	-2,00	6,100	792,954	-5,00	7,600	792,579	25,00	9,357	791,752	-66,67
28785+0,000							-4,505	792,980	2,00	792,214	792,275	792,890	0,676	3,600	792,818	-2,00	6,100	792,693	-5,00	7,600	792,318	25,00	8,953	791,761	-66,67
28786+0,000							-4,505	792,720	2,00	791,935	792,014	792,629	0,694	3,600	792,557	-2,00	6,100	792,432	-5,00	7,600	792,057	25,00	9,166	791,359	-66,67
28787+0,000							-4,505	792,459	2,00	791,880	791,754	792,369	0,489	3,600	792,297	-2,00	6,100	792,172	-5,00	7,600	791,797	25,00	9,128	791,123	-66,67
28788+0,000							-4,505	792,198	2,00	791,749	791,493	792,108	0,359	3,600	792,036	-2,00	6,100	791,911	-5,00	7,600	791,536	25,00	9,351	790,714	-66,67
28789+0,000							-4,505	791,937	2,00	791,638	791,232	791,847	0,209	3,600	791,775	-2,00	6,100	791,650	-5,00	7,600	791,275	25,00	8,911	790,747	-66,67
28790+0,000							-4,505	791,677	2,00	791,356	790,972	791,587	0,231	3,600	791,515	-2,00	6,100	791,390	-5,00	7,600	791,015	25,00	8,105	791,023	-66,67
28791+0,000							-4,505	791,416	2,00	791,114	790,711	791,326	0,212	3,600	791,254	-2,00	6,100	791,129	-5,00	7,600	791,054	5,00	8,006	791,159	100,00
28792+0,000							-4,505	791,155	2,00	790,957	790,450	791,065	0,108	3,600	790,993	-2,00	6,100	790,868	-5,00	7,600	790,793	5,00	8,207	791,100	100,00
28793+0,000							-4,505	790,895	2,00	790,897	790,190	790,805	-0,092	3,600	790,733	-2,00	6,100	790,608	-5,00	7,600	790,533	5,00	8,334	790,966	100,00
28794+0,000							-4,505	790,634	2,00	790,619	789,929	790,544	-0,075	3,600	790,472	-2,00	6,100	790,347	-5,00	7,600	790,272	5,00	8,359	790,731	100,00
28795+0,000							-4,505	790,373	2,00	790,352	789,668	790,283	-0,069	3,600	790,211	-2,00	6,100	790,086	-5,00	7,600	790,011	5,00	8,300	790,411	100,00
28796+0,000							-4,505	790,113	2,00	790,048	789,407	790,022	-0,026	3,600	789,950	-2,00	6,100	789,825	-5,00	7,600	789,750	5,00	8,240	790,091	100,00
28797+0,000							-4,505	789,852	2,00	789,682	789,147	789,762	0,080	3,600	789,690	-2,00	6,100	789,565	-5,00	7,600	789,490	5,00	8,172	789,761	100,00
28798+0,000							-4,505	789,591	2,00	789,433	788,886	789,501	0,068	3,600	789,429	-2,00	6,100	789,304	-5,00	7,600	789,229	5,00	8,125	789,454	100,00
28799+0,000							-4,505	789,330	2,00	789,035	788,625	789,240	0,205	3,600	789,168	-2,00	6,100	789,043	-5,00	7,600	788,968	5,00	8,069	789,137	100,00
28800+0,000							-4,505	789,070	2,00	788,644	788,365	788,980	0,336	3,600	788,908	-2,00	6,100	788,783	-5,00	7,600	788,708	5,00	7,983	788,791	100,00
28801+0,000							-4,505	788,809	2,00	788,308	788,104	788,719	0,411	3,600	788,647	-2,00	6,100	788,522	-5,00	7,600	788,147	25,00	7,672	788,444	-66,67
28802+0,000							-4,505	788,548	2,00	788,140	787,843	788,458	0,318	3,600	788,386	-2,00	6,100	788,261	-5,00	7,600	787,886	25,00	7,826	788,081	-66,67
28803+0,000							-4,505	788,288	2,00	787,927	787,583	788,198	0,271	3,600	788,126	-2,00	6,100	788,001	-5,00	7,600	787,626	25,00	8,840	787,144	-66,67
28804+0,000							-4,505	788,029	2,00	787,752	787,323	787,938	0,186	3,600	787,866	-2,00	6,100	787,741	-5,00	7,600	787,366	25,00	9,606	786,374	-66,67
28805+0,000							-4,505	787,781	2,00	787,467	787,076	787,691	0,224	3,600	787,619	-2,00	6,100	787,494	-5,00	7,600	787,119	25,00	11,302	784,996	-66,67
28806+0,000							-4,505	787,547	2,00	787,027	786,842	787,457	0,430	3,600	787,385	-2,00	6,100	787,260	-5,00	7,600	786,885	25,00	11,822	784,416	-66,67
28807+0,000	-5,767	787,200	-66,670	-5,700	787,244	5,00	-4,200	787,319	2,00	786,355	786,620	787,235	0,880	3,600	787,163	-2,00	6,100	787,038	-5,00	7,600	786,663	25,00	11,825	784,192	-66,67
28808+0,000	-6,010	786,962	100,000	-5,700	786,652	25,00	-4,200	787,027	0,29	785,934	786,400	787,015	1,081	3,600	787,004	-0,29	6,100	786,986	-0,73	7,600	786,611	25,00	11,876	784,131	-66,67
28808+7,634	-6,046	786,878	100,000	-5,700	786,532	25,00	-4,200	786,907	-0,56	785,956	786,316	786,931	0,975	3,600	786,951	0,56	6,100	786,965	0,56	7,600	786,590	25,00	11,856	784,136	-66,67
28808+10,000	-6,056	786,852	100,000	-5,700	786,496	25,00	-4,200	786,871	-0,80	785,944	786,290	786,905	0,961	3,600	786,933	0,80	6,100	786,953	0,80	7,600	786,578	25,00	11,852	784,131	-66,67
28809+0,000	-6,091	786,751	100,000	-5,700	786,361	25,00	-4,200	786,736	-1,40	785,936	786,180	786,795	0,859	3,600	786,845	1,40	6,100	786,880	1,40	7,600	786,505	25,00	11,826	784,083	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28809+10,000	-6,103	786,654	100,000	-5,700	786,251	25,00	-4,200	786,626	-1,40	785,937	786,069	786,684	0,747	3,600	786,735	1,40	6,100	786,770	1,40	7,600	786,395	25,00	11,676	784,073	-66,67
28810+0,000	-6,137	786,577	100,000	-5,700	786,140	25,00	-4,200	786,515	-1,40	785,898	785,959	786,574	0,676	3,600	786,625	1,40	6,100	786,660	1,40	7,600	786,285	25,00	11,453	784,112	-66,67
28810+10,000	-6,156	786,487	100,000	-5,700	786,030	25,00	-4,200	786,405	-1,40	785,813	785,849	786,464	0,651	3,600	786,514	1,40	6,100	786,549	1,40	7,600	786,174	25,00	11,217	784,159	-66,67
28811+0,000	-6,174	786,394	100,000	-5,700	785,920	25,00	-4,200	786,295	-1,40	785,791	785,739	786,354	0,563	3,600	786,404	1,40	6,100	786,439	1,40	7,600	786,064	25,00	10,964	784,218	-66,67
28811+10,000	-6,189	786,298	100,000	-5,700	785,810	25,00	-4,200	786,185	-1,40	785,776	785,629	786,244	0,468	3,600	786,294	1,40	6,100	786,329	1,40	7,600	785,954	25,00	10,710	784,277	-66,67
28812+0,000	-6,246	786,245	100,000	-5,700	785,700	25,00	-4,200	786,075	-1,40	785,754	785,518	786,133	0,379	3,600	786,184	1,40	6,100	786,219	1,40	7,600	785,844	25,00	10,433	784,351	-66,67
28812+10,000	-6,280	786,169	100,000	-5,700	785,589	25,00	-4,200	785,964	-1,40	785,719	785,408	786,023	0,304	3,987	786,079	1,40	6,100	786,109	1,40	7,600	785,734	25,00	10,146	784,432	-66,67
28813+0,000	-6,271	786,051	100,000	-5,700	785,479	25,00	-4,200	785,854	-1,40	785,668	785,298	785,913	0,245	4,416	785,975	1,40	6,100	785,998	1,40	7,600	785,623	25,00	9,705	784,616	-66,67
28813+10,000	-6,262	785,931	100,000	-5,700	785,369	25,00	-4,200	785,744	-1,40	785,605	785,188	785,803	0,198	4,888	785,871	1,40	6,100	785,888	1,40	7,600	785,513	25,00	9,490	784,649	-66,67
28814+0,000	-6,254	785,813	100,000	-5,700	785,259	25,00	-4,200	785,634	-1,40	785,550	785,078	785,693	0,143	5,402	785,768	1,40	6,100	785,778	1,40	7,600	785,403	25,00	9,443	784,571	-66,67
28814+10,000	-6,253	785,702	100,000	-5,700	785,149	25,00	-4,200	785,524	-1,40	785,521	784,967	785,582	0,061	5,959	785,666	1,40	6,100	785,668	1,40	7,600	785,293	25,00	9,458	784,450	-66,67
28815+0,000	-6,257	785,595	100,000	-5,700	785,038	25,00	-4,200	785,413	-1,40	785,475	784,857	785,472	-0,003	6,558	785,564	1,40				8,058	785,189	25,00	9,903	784,355	-66,67
28815+10,000	-6,253	785,481	100,000	-5,700	784,928	25,00	-4,200	785,303	-1,40	785,408	784,747	785,362	-0,046	7,200	785,463	1,40				8,700	785,088	25,00	10,563	784,242	-66,67
28816+0,000	-6,211	785,329	100,000	-5,700	784,818	25,00	-4,200	785,193	-1,40	785,307	784,637	785,252	-0,055	7,200	785,353	1,40				8,700	784,978	25,00	10,548	784,142	-66,67
28816+10,000	-6,214	785,221	100,000	-5,700	784,708	25,00	-4,200	785,083	-1,40	785,207	784,527	785,142	-0,065	7,200	785,242	1,40				8,700	784,867	25,00	10,302	784,195	-66,67
28817+0,000	-6,146	785,043	100,000	-5,700	784,598	25,00	-4,200	784,973	-1,40	785,097	784,416	785,031	-0,066	7,200	785,132	1,40				8,700	784,757	25,00	9,842	784,392	-66,67
28817+10,000	-6,114	784,901	100,000	-5,700	784,487	25,00	-4,200	784,862	-1,40	784,993	784,306	784,921	-0,072	3,600	784,972	1,40				5,100	784,897	5,00			
28818+0,000	-6,096	784,773	100,000	-5,700	784,377	25,00	-4,200	784,752	-1,40	784,871	784,196	784,811	-0,060	3,600	784,861	1,40				5,100	784,786	5,00			
28818+10,000	-6,080	784,646	100,000	-5,700	784,267	25,00	-4,200	784,642	-1,40	784,746	784,086	784,701	-0,045	3,600	784,751	1,40	6,100	784,786	1,40	7,600	784,411	25,00	8,073	784,492	-66,67
28819+0,000	-6,055	784,512	100,000	-5,700	784,157	25,00	-4,200	784,532	-1,40	784,633	783,976	784,591	-0,042	3,600	784,641	1,40	6,100	784,676	1,40	7,600	784,301	25,00	8,079	784,377	-66,67
28819+10,000	-5,997	784,343	100,000	-5,700	784,047	25,00	-4,200	784,422	-1,40	784,521	783,865	784,480	-0,041	3,600	784,531	1,40	6,100	784,566	1,40	7,600	784,191	25,00	8,014	784,311	-66,67
28820+0,000	-5,740	784,210	-66,670	-5,700	784,236	5,00	-4,200	784,311	-1,40	784,410	783,755	784,370	-0,040	3,600	784,421	1,40	6,100	784,456	1,40	7,600	784,081	25,00	7,872	784,295	-66,67
28820+0,710	-5,737	784,204	-66,670	-5,700	784,228	5,00	-4,200	784,303	-1,40	784,401	783,747	784,362	-0,039	3,600	784,413	1,40	6,100	784,448	1,40	7,600	784,073	25,00	7,861	784,294	-66,67
28820+10,000				-5,700	784,126	5,00	-4,200	784,201	-1,40	784,278	783,645	784,260	-0,018	3,600	784,310	1,40	6,100	784,345	1,40	7,600	783,970	25,00	7,728	784,281	-66,67
28821+0,000	-5,720	784,002	-66,670	-5,700	784,016	5,00	-4,200	784,091	-1,40	784,154	783,535	784,150	-0,004	3,600	784,200	1,40	6,100	784,235	1,40	7,600	784,160	5,00	7,999	784,259	100,00
28821+10,000	-5,782	783,851	-66,670	-5,700	783,906	5,00	-4,200	783,981	-1,40	784,027	783,425	784,040	0,013	3,600	784,090	1,40	6,100	784,125	1,40	7,600	784,050	5,00	8,092	784,242	100,00
28822+0,000	-5,811	783,716	-66,670	-5,700	783,790	5,00	-4,200	783,865	-1,40	783,899	783,309	783,924	0,025	3,600	783,974	1,40	6,100	784,009	1,40	7,600	783,934	5,00	8,118	784,153	100,00
28822+10,000	-5,821	783,583	-66,670	-5,700	783,664	5,00	-4,200	783,739	-1,40	783,773	783,183	783,798	0,025	3,600	783,848	1,40	6,100	783,883	1,40	7,600	783,808	5,00	8,046	783,954	100,00
28823+0,000	-5,823	783,444	-66,670	-5,700	783,527	5,00	-4,200	783,602	-1,40	783,621	783,045	783,660	0,039	3,600	783,711	1,40	6,100	783,746	1,40	7,600	783,371	25,00	7,665	783,723	-66,67
28823+10,000	-5,822	783,297	-66,670	-5,700	783,379	5,00	-4,200	783,454	-1,40	783,462	782,897	783,512	0,050	3,600	783,563	1,40	6,100	783,598	1,40	7,600	783,223	25,00	7,738	783,527	-66,67
28824+0,000	-5,805	783,150	-66,670	-5,700	783,220	5,00	-4,200	783,295	-1,40	783,321	782,739	783,354	0,033	3,600	783,404	1,40	6,100	783,439	1,40	7,600	783,064	25,00	7,812	783,318	-66,67
28824+10,000	-5,803	782,981	-66,670	-5,700	783,050	5,00	-4,200	783,125	-1,40	783,163	782,569	783,184	0,021	3,600	783,234	1,40	6,100	783,269	1,40	7,600	782,894	25,00	7,939	783,064	-66,67
28825+0,000	-5,896	782,739	-66,670	-5,700	782,870	5,00	-4,200	782,945	-1,40	782,959	782,389	783,004	0,045	3,600	783,054	1,40	6,100	783,089	1,40	7,600	782,714	25,00	8,055	782,807	-66,67
28825+10,000	-5,976	782,495	-66,670	-5,700	782,679	5,00	-4,200	782,754	-1,40	782,745	782,198	782,813	0,068	3,600	782,863	1,40	6,100	782,898	1,40	7,600	782,523	25,00	7,989	782,660	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28826+0,000	-6,020	782,264	-66,670	-5,700	782,477	5,00	-4,200	782,552	-1,40	782,527	781,996	782,611	0,084	3,600	782,661	1,40	6,100	782,696	1,40	7,600	782,321	25,00	7,807	782,579	-66,67
28826+10,000	-6,006	782,060	-66,670	-5,700	782,264	5,00	-4,200	782,339	-1,40	782,312	781,783	782,398	0,086	3,600	782,448	1,40	4,845	782,466	1,40	6,345	782,091	25,00	6,696	782,253	-66,67
28827+0,000	-5,991	781,846	-66,670	-5,700	782,041	5,00	-4,200	782,116	-1,40	782,069	781,559	782,174	0,105	3,600	782,225	1,40				5,100	782,150	5,00			
28827+10,000	-6,036	781,583	-66,670	-5,700	781,806	5,00	-4,200	781,881	-1,40	781,835	781,325	781,940	0,105	3,600	781,991	1,40				5,100	781,916	5,00			
28828+0,000	-6,091	781,300	-66,670	-5,700	781,561	5,00	-4,200	781,636	-1,40	781,554	781,080	781,695	0,141	3,600	781,745	1,40				5,100	781,670	5,00			
28828+10,000	-6,094	781,043	-66,670	-5,700	781,305	5,00	-4,200	781,380	-1,40	781,284	780,824	781,439	0,155	3,600	781,490	1,40				5,100	781,415	5,00			
28829+0,000	-6,079	780,786	-66,670	-5,700	781,039	5,00	-4,200	781,114	-1,40	781,037	780,558	781,173	0,136	3,600	781,223	1,40				5,100	781,148	5,00			
28829+10,000	-6,064	780,518	-66,670	-5,700	780,761	5,00	-4,200	780,836	-1,40	780,779	780,280	780,895	0,116	3,600	780,945	1,40				5,100	780,870	5,00			
28830+0,000	-6,050	780,245	-66,670	-5,700	780,478	5,00	-4,200	780,553	-1,40	780,509	779,997	780,612	0,103	3,600	780,663	1,40				5,100	780,588	5,00			
28830+10,000	-6,016	779,985	-66,670	-5,700	780,196	5,00	-4,200	780,271	-1,40	780,234	779,714	780,329	0,095	3,600	780,380	1,40				5,100	780,305	5,00			
28831+0,000	-6,033	779,691	-66,670	-5,700	779,913	5,00	-4,200	779,988	-1,40	779,966	779,431	780,046	0,080	3,600	780,097	1,40				5,100	780,022	5,00			
28831+10,000	-6,110	779,376	-66,670	-5,700	779,649	5,00	-4,200	779,724	-0,94	779,684	779,149	779,764	0,080	3,600	779,797	0,94				5,100	779,722	5,00			
28832+0,000	-6,110	779,093	-66,670	-5,700	779,366	5,00	-4,200	779,441	-0,94	779,382	778,866	779,481	0,099	3,600	779,515	0,94				5,100	779,440	5,00			
28933+0,000	-6,110	776,374	-66,670	-5,700	776,647	5,00	-4,200	776,722	-0,94	776,633	776,146	776,761	0,128	3,600	776,795	0,94				5,100	776,720	5,00			
28933+10,000	-5,822	776,283	-66,670	-5,200	776,697	5,00	-4,200	776,747	2,00	776,538	776,048	776,663	0,125	3,600	776,591	-2,00	6,100	776,466	-5,00	7,600	776,091	25,00	8,584	775,780	-66,67
28934+0,000	-5,802	776,198	-66,670	-5,200	776,599	5,00	-4,200	776,649	2,00	776,464	775,950	776,565	0,101	3,600	776,493	-2,00	6,100	776,368	-5,00	7,600	775,993	25,00	8,588	775,679	-66,67
28935+0,000	-5,760	776,030	-66,670	-5,200	776,403	5,00	-4,200	776,453	2,00	776,308	775,754	776,369	0,061	3,600	776,297	-2,00	6,100	776,172	-5,00	7,600	775,797	25,00	8,189	775,749	-66,67
28936+0,000	-5,697	775,875	-66,670	-5,200	776,207	5,00	-4,200	776,257	2,00	776,151	775,558	776,173	0,022	3,600	776,101	-2,00	6,100	775,976	-5,00	7,600	775,601	25,00	7,968	775,700	-66,67
28937+0,000	-5,644	775,714	-66,670	-5,200	776,010	5,00	-4,200	776,060	2,00	775,986	775,361	775,976	-0,010	3,600	775,904	-2,00	6,100	775,779	-5,00	7,600	775,404	25,00	8,192	775,355	-66,67
28937+18,736	-5,576	775,576	-66,670	-5,200	775,827	5,00	-4,200	775,877	2,00	775,834	775,178	775,793	-0,041	3,600	775,721	-2,00	6,100	775,596	-5,00	7,600	775,221	25,00	8,069	775,253	-66,67
28938+0,000	-5,569	775,568	-66,670	-5,200	775,814	5,00	-4,200	775,864	2,00	775,824	775,165	775,780	-0,044	3,600	775,708	-2,00	6,100	775,585	-4,91	7,600	775,210	25,00	8,060	775,249	-66,67
28939+0,000	-5,435	775,461	-66,670	-5,200	775,618	5,00	-4,200	775,668	2,00	775,664	774,969	775,584	-0,080	3,600	775,512	-2,00	6,100	775,423	-3,56	7,600	775,348	5,00	8,058	775,507	100,00
28940+0,000	-5,375	775,321	-66,670	-5,200	775,437	5,00	-4,200	775,487	2,00	775,523	774,788	775,403	-0,120	3,600	775,331	-2,00	6,100	775,276	-2,20	7,600	775,201	5,00	8,062	775,363	100,00
28940+2,942	-5,374	775,298	-66,670	-5,200	775,414	5,00	-4,200	775,464	2,00	775,505	774,765	775,380	-0,125	3,600	775,308	-2,00	6,100	775,258	-2,00	7,600	775,183	5,00	8,093	775,376	100,00
28941+0,000	-5,272	775,197	-66,670	-5,200	775,245	5,00	-4,200	775,295	0,84	775,412	774,645	775,260	-0,152	3,600	775,229	-0,84	6,100	775,208	-0,84	7,600	774,833	25,00	7,706	775,125	-66,67
28941+12,412				-5,200	775,139	5,00	-4,200	775,189		775,345	774,574	775,189	-0,156	11,630	775,189					13,130	774,814	25,00	13,271	775,095	-66,67
28942+0,000	-5,404	775,082	100,000	-5,200	774,877	25,00	-4,200	775,127	-0,51	775,294	774,534	775,149	-0,145	10,238	775,202	0,51				11,738	775,127	5,00	12,188	775,277	100,00
28942+10,000	-5,462	775,059	100,000	-5,200	774,797	25,00	-4,200	775,047	-1,19	775,221	774,482	775,097	-0,124	8,876	775,203	1,19				10,376	774,828	25,00	10,921	774,858	-66,67
28943+0,000	-5,480	774,996	100,000	-5,200	774,716	25,00	-4,200	774,966	-1,87	775,154	774,430	775,045	-0,109	8,063	775,196	1,87				9,563	774,821	25,00	9,977	774,948	-66,67
28943+10,000	-5,511	774,946	100,000	-5,200	774,635	25,00	-4,200	774,885	-2,55	775,110	774,378	774,993	-0,117	7,814	775,192	2,55				9,314	774,817	25,00	10,146	774,675	-66,67
28944+0,000	-5,535	774,889	100,000	-5,200	774,555	25,00	-4,200	774,805	-3,23	775,072	774,325	774,940	-0,132	7,818	775,193	3,23				9,318	774,818	25,00	9,938	774,828	-66,67
28944+2,512	-5,540	774,875	100,000	-5,200	774,534	25,00	-4,200	774,784	-3,40	775,058	774,312	774,927	-0,131	7,818	775,193	3,40				9,318	774,818	25,00	10,127	774,705	-66,67
28944+10,000	-5,531	774,826	100,000	-5,200	774,495	25,00	-4,200	774,745	-3,40	775,010	774,273	774,888	-0,122	7,818	775,154	3,40				9,318	774,779	25,00	10,548	774,385	-66,67
28945+0,000	-5,511	774,754	100,000	-5,200	774,443	25,00	-4,200	774,693	-3,40	774,907	774,221	774,836	-0,071	7,817	775,102	3,40				9,317	774,727	25,00	10,572	774,316	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28945+10,000	-5,503	774,694	100,000	-5,200	774,391	25,00	-4,200	774,641	-3,40	774,826	774,169	774,784	-0,042	7,816	775,049	3,40				9,316	774,674	25,00	11,416	773,701	-66,67
28946+0,000	-5,497	774,642	100,000	-5,200	774,345	25,00	-4,200	774,595	-3,40	774,729	774,123	774,738	0,009	7,816	775,004	3,40				9,316	774,629	25,00	11,284	773,743	-66,67
28946+10,000	-5,476	774,589	100,000	-5,200	774,313	25,00	-4,200	774,563	-3,40	774,627	774,091	774,706	0,079	7,815	774,972	3,40				9,315	774,597	25,00	11,693	773,438	-66,67
28947+0,000	-5,484	774,580	100,000	-5,200	774,296	25,00	-4,200	774,546	-3,40	774,591	774,073	774,688	0,097	7,815	774,954	3,40	7,815	774,954	3,40	9,315	774,579	25,00	11,515	773,539	-66,67
28947+10,000	-5,484	774,576	100,000	-5,200	774,292	25,00	-4,200	774,542	-3,40	774,548	774,070	774,685	0,137	7,814	774,950	3,40				9,314	774,575	25,00	12,224	773,062	-66,67
28948+0,000	-5,474	774,576	100,000	-5,200	774,302	25,00	-4,200	774,552	-3,40	774,558	774,080	774,695	0,137	7,814	774,961	3,40				9,314	774,586	25,00	12,401	772,954	-66,67
28948+10,000	-5,453	774,580	100,000	-5,200	774,327	25,00	-4,200	774,577	-3,40	774,539	774,105	774,720	0,181	7,813	774,985	3,40				9,313	774,610	25,00	12,599	772,846	-66,67
28949+0,000	-5,460	774,625	100,000	-5,200	774,365	25,00	-4,200	774,615	-3,40	774,484	774,143	774,758	0,274	7,813	775,024	3,40				9,313	774,649	25,00	12,697	772,819	-66,67
28949+10,000	-5,443	774,661	100,000	-5,200	774,418	25,00	-4,200	774,668	-3,40	774,483	774,196	774,811	0,328	7,812	775,076	3,40				9,312	774,701	25,00	12,733	772,847	-66,67
28950+0,000	-5,465	774,749	100,000	-5,200	774,485	25,00	-4,200	774,735	-3,40	774,719	774,262	774,877	0,158	7,812	775,143	3,40				9,312	774,768	25,00	12,315	773,192	-66,67
28950+10,000	-5,479	774,844	100,000	-5,200	774,565	25,00	-4,200	774,815	-3,40	774,431	774,343	774,958	0,527	7,811	775,224	3,40				9,311	774,849	25,00	12,620	773,069	-66,67
28951+0,000	-5,623	775,083	100,000	-5,200	774,660	25,00	-4,200	774,910	-3,40	774,647	774,438	775,053	0,406	7,811	775,318	3,40				9,311	774,943	25,00	12,299	773,377	-66,67
28951+10,000	-5,477	775,046	100,000	-5,200	774,769	25,00	-4,200	775,019	-3,40	774,600	774,547	775,162	0,562	7,810	775,427	3,40				9,310	775,052	25,00	12,239	773,526	-66,67
28952+0,000	-5,484	775,176	100,000	-5,200	774,892	25,00	-4,200	775,142	-3,40	774,621	774,670	775,285	0,664	7,810	775,550	3,40				9,310	775,175	25,00	12,051	773,774	-66,67
28952+10,000	-5,472	775,301	100,000	-5,200	775,029	25,00	-4,200	775,279	-3,40	774,659	774,807	775,422	0,763	7,809	775,687	3,40				9,309	775,312	25,00	11,928	773,993	-66,67
28952+10,696	-5,473	775,312	100,000	-5,200	775,039	25,00	-4,200	775,289	-3,40	774,662	774,817	775,432	0,770	7,809	775,697	3,40				9,309	775,322	25,00	11,924	774,005	-66,67
28953+0,000	-5,488	775,467	100,000	-5,200	775,180	25,00	-4,200	775,430	-3,40	774,863	774,958	775,573	0,710	7,809	775,838	3,40				9,309	775,463	25,00	11,811	774,222	-66,67
28953+10,000	-5,487	775,632	100,000	-5,200	775,345	25,00	-4,200	775,595	-3,40	775,165	775,123	775,738	0,573	7,808	776,003	3,40				9,308	775,628	25,00	11,692	774,465	-66,67
28954+0,000	-5,515	775,839	100,000	-5,200	775,524	25,00	-4,200	775,774	-3,40	775,429	775,302	775,917	0,488	7,808	776,183	3,40				9,308	775,808	25,00	11,442	774,811	-66,67
28954+10,000	-5,525	776,043	100,000	-5,200	775,718	25,00	-4,200	775,968	-3,40	775,687	775,495	776,110	0,423	7,807	776,376	3,40				9,307	776,001	25,00	11,259	775,126	-66,67
28955+0,000	-5,567	776,292	100,000	-5,200	775,925	25,00	-4,200	776,175	-3,40	775,786	775,703	776,318	0,532	7,807	776,583	3,40				9,307	776,208	25,00	11,390	775,246	-66,67
28955+10,000	-5,594	776,540	100,000	-5,200	776,146	25,00	-4,200	776,396	-3,40	776,056	775,924	776,539	0,483	7,806	776,804	3,40				9,306	776,429	25,00	10,903	775,791	-66,67
28956+0,000	-5,585	776,767	100,000	-5,200	776,382	25,00	-4,200	776,632	-3,40	776,398	776,160	776,775	0,377	7,806	777,040	3,40				9,306	776,665	25,00	11,061	775,921	-66,67
28956+10,000	-5,579	777,004	100,000	-5,200	776,625	25,00	-4,200	776,875	-3,40	776,662	776,403	777,018	0,356	7,805	777,283	3,40				9,305	776,908	25,00	10,528	776,519	-66,67
28957+0,000	-5,577	777,245	100,000	-5,200	776,868	25,00	-4,200	777,118	-3,40	777,049	776,646	777,261	0,212	7,805	777,526	3,40	7,805	777,526	3,40	9,305	777,151	25,00	10,098	777,049	-66,67
28957+10,000	-5,557	777,468	100,000	-5,200	777,111	25,00	-4,200	777,361	-3,40	777,240	776,889	777,504	0,264	7,804	777,769	3,40				9,304	777,394	25,00	9,871	777,443	-66,67
28958+0,000	-5,577	777,731	100,000	-5,200	777,355	25,00	-4,200	777,605	-3,40	777,440	777,132	777,747	0,307	7,804	778,013	3,40				9,304	777,638	25,00	9,513	777,925	-66,67
28958+10,000	-5,586	777,984	100,000	-5,200	777,598	25,00	-4,200	777,848	-3,40	777,678	777,376	777,991	0,313	7,803	778,256	3,40				9,303	778,181	5,00	9,823	778,400	100,00
28959+0,000	-5,576	778,217	100,000	-5,200	777,841	25,00	-4,200	778,091	-3,40	777,907	777,619	778,234	0,327	8,060	778,508	3,40				9,560	778,133	25,00	9,572	778,551	-66,67
28959+10,000	-5,583	778,467	100,000	-5,200	778,084	25,00	-4,200	778,334	-3,40	778,151	777,862	778,477	0,326	8,532	778,767	3,40				10,032	778,392	25,00	10,213	778,697	-66,67
28960+0,000							-4,200	778,577	-3,40	778,466	778,105	778,720	0,254	9,108	779,030	3,40				10,608	778,955	5,00	11,169	779,216	100,00
28960+10,000							-4,200	778,821	-3,40	778,887	778,348	778,963	0,076	9,787	779,296	3,40				11,287	778,921	25,00	11,365	779,296	-66,67
28960+18,881							-4,200	779,037	-3,40	779,310	778,564	779,179	-0,131	10,478	779,536	3,40				11,978	779,161	25,00	12,082	779,517	-66,67
28961+0,000							-4,200	779,067	-3,32	779,323	778,592	779,207	-0,116	10,571	779,558	3,32				12,071	779,183	25,00	12,166	779,545	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO											
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28961+10,000							-4,200	779,339	-2,64	779,444	778,835	779,450	0,006	11,453	779,753	2,64				12,953	779,378	25,00	13,023	779,746	-66,67
28962+0,000							-4,200	779,611	-1,96	779,997	779,078	779,693	-0,304	12,415	779,937	1,96				13,915	779,562	25,00	13,974	779,927	-66,67
28962+10,000							-4,200	779,882	-1,28	780,126	779,321	779,936	-0,190	13,435	780,108	1,28	13,435	780,108	1,28	14,935	779,733	25,00	15,133	779,996	-66,67
28963+0,000							-4,200	780,152	-0,60	780,185	779,562	780,177	-0,008	14,492	780,265	0,60				15,992	780,190	5,00	16,371	780,269	100,00
28963+8,881							-4,200	780,390		780,420	779,775	780,390	-0,030	15,427	780,390					16,927	780,315	5,00	17,310	780,398	100,00
28964+0,000							-4,200	780,687	0,76	780,710	780,040	780,655	-0,055	6,100	780,609	-0,76				7,600	780,534	5,00	8,008	780,642	100,00
28964+18,292							-4,200	781,170	2,00	781,162	780,471	781,086	-0,076	6,100	780,964	-2,00				7,600	780,889	5,00	8,061	781,050	100,00
28965+0,000							-4,200	781,210	2,00	781,209	780,511	781,126	-0,083	6,100	781,004	-2,00				7,600	780,929	5,00	8,091	781,120	100,00
28966+0,000							-4,200	781,681	2,00	781,702	780,982	781,597	-0,105	6,100	781,475	-2,00				7,600	781,400	5,00	8,252	781,751	100,00
28967+0,000							-4,200	782,151	2,00	782,242	781,452	782,067	-0,175	3,600	781,995	-2,00	6,100	781,874	-4,84	7,600	781,799	5,00	8,455	782,354	100,00
28967+2,410							-4,200	782,208	2,00	782,302	781,509	782,124	-0,178	3,600	782,052	-2,00	6,100	781,927	-5,00	7,600	781,852	5,00	8,458	782,409	100,00
28968+0,000							-4,200	782,621	2,00	782,692	781,922	782,537	-0,155	3,600	782,465	-2,00	6,100	782,340	-5,00	7,600	782,265	5,00	8,494	782,859	100,00
28969+0,000							-4,200	783,092	2,00	783,169	782,393	783,008	-0,161	3,600	782,936	-2,00	6,100	782,811	-5,00	7,600	782,736	5,00	8,432	783,268	100,00
28970+0,000							-4,200	783,562	2,00	783,616	782,863	783,478	-0,138	3,600	783,406	-2,00	6,100	783,281	-5,00	7,600	783,206	5,00	8,434	783,739	100,00
28971+0,000							-4,200	784,032	2,00	784,071	783,333	783,948	-0,123	3,600	783,876	-2,00	6,100	783,751	-5,00	7,600	783,676	5,00	8,437	784,213	100,00
28972+0,000							-4,200	784,502	2,00	784,457	783,803	784,418	-0,039	3,600	784,346	-2,00	6,100	784,221	-5,00	7,600	784,146	5,00	8,383	784,630	100,00
28973+0,000							-4,200	784,973	2,00	785,013	784,274	784,889	-0,124	3,600	784,817	-2,00	6,100	784,692	-5,00	7,600	784,617	5,00	8,468	785,184	100,00
28974+0,000							-4,200	785,443	2,00	785,555	784,744	785,359	-0,196	3,600	785,287	-2,00	6,100	785,162	-5,00	7,600	785,087	5,00	8,542	785,729	100,00
28975+0,000							-4,200	785,913	2,00	785,961	785,214	785,829	-0,132	3,600	785,757	-2,00	6,100	785,632	-5,00	7,600	785,557	5,00	8,081	785,738	100,00
28976+0,000							-4,200	786,384	2,00	786,336	785,685	786,300	-0,036	3,600	786,228	-2,00	6,100	786,103	-5,00	7,600	786,028	5,00	8,894	787,021	100,00
28977+0,000							-4,200	786,854	2,00	786,789	786,155	786,770	-0,019	3,600	786,698	-2,00	6,100	786,573	-5,00	7,600	786,498	5,00	8,506	787,104	100,00
28978+0,000							-4,200	787,324	2,00	787,298	786,625	787,240	-0,058	3,600	787,168	-2,00	6,100	787,043	-5,00	7,600	786,968	5,00	8,217	787,285	100,00
28979+0,000							-4,200	787,776	2,00	787,613	787,077	787,692	0,079	3,600	787,620	-2,00	6,100	787,495	-5,00	7,600	787,120	25,00	7,682	787,410	-66,67
28980+0,000							-4,200	788,196	2,00	788,029	787,497	788,112	0,083	3,600	788,040	-2,00	6,100	787,915	-5,00	7,600	787,540	25,00	8,312	787,411	-66,67
28981+0,000							-4,200	788,585	2,00	788,315	787,886	788,501	0,186	3,600	788,429	-2,00	6,100	788,304	-5,00	7,600	787,929	25,00	8,256	787,837	-66,67
28982+0,000							-4,200	788,942	2,00	788,546	788,243	788,858	0,312	3,600	788,786	-2,00	6,100	788,661	-5,00	7,600	788,286	25,00	8,361	788,124	-66,67
28983+0,000							-4,200	789,268	2,00	788,840	788,569	789,184	0,344	3,600	789,112	-2,00	6,100	788,987	-5,00	7,600	788,612	25,00	8,420	788,410	-66,67
28984+0,000							-4,200	789,561	2,00	789,121	788,862	789,477	0,356	3,600	789,405	-2,00	6,100	789,280	-5,00	7,600	788,905	25,00	8,438	788,692	-66,67
28985+0,000							-4,200	789,823	2,00	789,384	789,124	789,739	0,355	3,600	789,667	-2,00	6,100	789,542	-5,00	7,600	789,167	25,00	8,399	788,980	-66,67
28986+0,000							-4,200	790,054	2,00	789,564	789,355	789,970	0,406	3,600	789,898	-2,00	6,100	789,773	-5,00	7,600	789,398	25,00	8,614	789,067	-66,67
28987+0,000							-4,200	790,252	2,00	789,851	789,553	790,168	0,317	3,600	790,096	-2,00	6,100	789,971	-5,00	7,600	789,596	25,00	8,385	789,418	-66,67
28988+0,000							-4,200	790,419	2,00	790,059	789,720	790,335	0,276	3,600	790,263	-2,00	6,100	790,138	-5,00	7,600	789,763	25,00	8,195	789,712	-66,67
28989+0,000							-4,200	790,555	2,00	790,354	789,856	790,471	0,117	3,600	790,399	-2,00	6,100	790,274	-5,00	7,600	790,199	5,00	7,957	790,256	100,00
28990+0,000							-4,200	790,658	2,00	790,526	789,959	790,574	0,048	3,600	790,502	-2,00	6,100	790,377	-5,00	7,600	790,002	25,00	7,649	790,315	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28991+0,000							-4,200	790,730	2,00	790,614	790,031	790,646	0,032	3,600	790,574	-2,00	6,100	790,449	-5,00	7,600	790,374	5,00	7,966	790,441	100,00
28992+0,000							-4,200	790,771	2,00	790,724	790,072	790,687	-0,037	3,600	790,615	-2,00	6,100	790,490	-5,00	7,600	790,415	5,00	8,200	790,714	100,00
28992+15,620							-4,200	790,780	2,00	790,847	790,081	790,696	-0,151	3,600	790,624	-2,00	6,100	790,499	-5,00	7,600	790,424	5,00	8,228	790,752	100,00
28992+19,658							-4,200	790,779	2,00	790,810	790,080	790,695	-0,115	3,600	790,623	-2,00	6,100	790,498	-5,00	7,600	790,423	5,00	8,239	790,763	100,00
28993+0,000							-4,200	790,780	2,01	790,807	790,080	790,695	-0,112	3,600	790,623	-2,01	6,100	790,498	-5,00	7,600	790,423	5,00	8,241	790,764	100,00
28993+2,351							-4,200	790,783	2,11	790,785	790,079	790,694	-0,091	3,600	790,618	-2,11	6,100	790,493	-5,00	7,600	790,418	5,00	8,252	790,770	100,00
28993+10,000							-4,200	790,790	2,43	790,750	790,073	790,688	-0,062	3,600	790,600	-2,43	6,100	790,475	-5,00	7,600	790,400	5,00	8,304	790,804	100,00
28994+0,000							-4,200	790,792	2,84	790,726	790,057	790,672	-0,054	3,600	790,570	-2,84	6,100	790,445	-5,00	7,600	790,370	5,00	8,292	790,762	100,00
28994+10,000							-4,200	790,786	3,25	790,691	790,034	790,649	-0,042	3,600	790,532	-3,25	6,100	790,407	-5,00	7,600	790,332	5,00	8,276	790,708	100,00
28995+0,000							-4,200	790,772	3,66	790,644	790,003	790,618	-0,026	3,600	790,486	-3,66	6,100	790,361	-5,00	7,600	790,286	5,00	8,314	790,700	100,00
28995+10,000							-4,200	790,750	4,08	790,592	789,963	790,578	-0,014	3,600	790,432	-4,08	6,100	790,307	-5,00	7,600	790,232	5,00	8,314	790,646	100,00
28996+0,000							-4,200	790,720	4,49	790,526	789,916	790,531	0,005	3,600	790,370	-4,49	6,100	790,245	-5,00	7,600	790,170	5,00	8,291	790,561	100,00
28996+10,000							-4,200	790,682	4,90	790,528	789,861	790,476	-0,052	3,600	790,300	-4,90	6,100	790,175	-5,00	7,600	790,100	5,00	8,076	790,276	100,00
28996+12,351							-4,200	790,672	5,00	790,485	789,847	790,462	-0,023	3,600	790,282	-5,00	6,100	790,157	-5,00	7,600	790,082	5,00	8,040	790,222	100,00
28997+0,000							-4,200	790,623	5,00	790,342	789,798	790,413	0,071	3,600	790,233	-5,00	6,100	790,108	-5,00	7,600	790,033	5,00	7,911	790,044	100,00
28997+10,000							-4,200	790,552	5,00	790,129	789,727	790,342	0,213	3,600	790,162	-5,00	6,100	790,037	-5,00	7,600	789,662	25,00	8,045	789,666	-66,67
28998+0,000							-4,200	790,479	5,00	789,778	789,654	790,269	0,491	3,600	790,089	-5,00	6,100	789,964	-5,00	7,600	789,589	25,00	8,624	789,206	-66,67
28998+10,000							-4,200	790,405	5,00	789,598	789,580	790,195	0,597	3,600	790,015	-5,00	6,100	789,890	-5,00	7,600	789,515	25,00	9,300	788,682	-66,67
28999+0,000							-4,200	790,331	5,00	789,304	789,506	790,121	0,817	3,600	789,941	-5,00	6,100	789,816	-5,00	7,600	789,441	25,00	9,865	788,231	-66,67
28999+10,000							-4,510	790,273	5,00	789,072	789,433	790,048	0,976	3,600	789,868	-5,00	6,100	789,743	-5,00	7,600	789,368	25,00	10,572	787,687	-66,67
29000+0,000							-4,510	790,200	5,00	788,889	789,359	789,974	1,085	3,600	789,794	-5,00	6,100	789,669	-5,00	7,600	789,294	25,00	11,347	787,096	-66,67
29000+10,000							-4,510	790,126	5,00	788,811	789,285	789,900	1,089	3,600	789,720	-5,00	6,100	789,595	-5,00	7,600	789,220	25,00	11,859	786,681	-66,67
29001+0,000							-4,510	790,052	5,00	788,726	789,212	789,827	1,101	3,600	789,647	-5,00	6,100	789,522	-5,00	7,600	789,147	25,00	12,361	786,273	-66,67
29001+10,000							-4,510	789,979	5,00	788,564	789,138	789,753	1,189	3,600	789,573	-5,00	6,100	789,448	-5,00	7,600	789,073	25,00	13,123	785,691	-66,67
29002+0,000							-4,510	789,905	5,00	788,394	789,064	789,679	1,285	3,600	789,499	-5,00	6,100	789,374	-5,00	7,600	788,999	25,00	13,850	785,133	-66,67
29002+10,000							-4,510	789,831	5,00	788,360	788,991	789,606	1,246	3,600	789,426	-5,00	6,100	789,301	-5,00	7,600	788,926	25,00	14,369	784,713	-66,67
29003+0,000							-4,510	789,758	5,00	788,253	788,917	789,532	1,279	3,600	789,352	-5,00	6,100	789,227	-5,00	7,600	788,852	25,00	15,260	784,045	-66,67
29003+10,000							-4,200	789,668	5,00	788,030	788,843	789,458	1,428	3,600	789,278	-5,00	6,100	789,153	-5,00	7,600	788,778	25,00	16,069	783,432	-66,67
29004+0,000							-4,200	789,595	5,00	787,880	788,770	789,385	1,505	3,600	789,205	-5,00	6,100	789,080	-5,00	7,600	788,705	25,00	16,035	783,382	-66,67
29004+10,000							-4,200	789,521	5,00	787,879	788,696	789,311	1,432	3,600	789,131	-5,00	6,100	789,006	-5,00	7,600	788,631	25,00	15,798	783,466	-66,67
29005+0,000							-4,200	789,447	5,00	787,751	788,622	789,237	1,486	3,600	789,057	-5,00	6,100	788,932	-5,00	7,600	788,557	25,00	15,642	783,496	-66,67
29005+10,000							-4,200	789,374	5,00	787,774	788,549	789,164	1,390	3,600	788,984	-5,00	6,100	788,859	-5,00	7,600	788,484	25,00	14,630	784,097	-66,67
29006+0,000							-4,200	789,300	5,00	787,889	788,475	789,090	1,201	3,600	788,910	-5,00	6,100	788,785	-5,00	7,600	788,410	25,00	13,402	784,842	-66,67
29006+9,084							-4,200	789,228	5,00	788,139	788,403	789,018	0,879	3,600	788,838	-5,00	6,100	788,713	-5,00	7,600	788,338	25,00	11,675	785,922	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA DIREITA

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
29006+10,000							-4,200	789,221	5,00	788,132	788,396	789,011	0,879	3,600	788,831	-5,00	6,100	788,706	-5,00	7,600	788,331	25,00	11,503	786,029	-66,67
29007+0,000	-5,470	789,152	100,000	-5,200	788,881	25,00	-4,200	789,131	5,00	788,067	788,306	788,921	0,854	6,098	788,617	-5,00				7,598	788,242	25,00	9,864	787,031	-66,67
29007+10,000	-5,479	789,061	100,000	-5,200	788,783	25,00	-4,200	789,033	5,00	788,348	788,208	788,823	0,475	6,098	788,518	-5,00				7,598	788,143	25,00	8,942	787,546	-66,67
29008+0,000	-5,487	788,968	100,000	-5,200	788,680	25,00	-4,200	788,930	5,00	788,206	788,105	788,720	0,514	6,098	788,415	-5,00				7,598	788,040	25,00	8,365	787,829	-66,67
29008+10,000	-5,511	788,888	100,000	-5,200	788,577	25,00	-4,200	788,827	5,00	788,097	788,002	788,617	0,520	6,098	788,312	-5,00				7,598	787,937	25,00	8,141	787,875	-66,67
29009+0,000	-5,526	788,797	100,000	-5,200	788,471	25,00	-4,200	788,721	5,00	788,070	787,896	788,511	0,441	6,098	788,207	-5,00				7,598	787,832	25,00	7,974	787,881	-66,67
29009+10,000	-5,524	788,689	100,000	-5,200	788,365	25,00	-4,200	788,615	5,00	788,026	787,790	788,405	0,379	6,098	788,100	-5,00				7,598	787,725	25,00	7,817	787,879	-66,67
29010+0,000	-5,543	788,600	100,000	-5,200	788,256	25,00	-4,200	788,506	5,00	787,927	787,681	788,296	0,369	13,231	787,635	-5,00				14,731	787,560	5,00	15,171	787,700	100,00
29010+10,000	-5,548	788,494	100,000	-5,200	788,147	25,00	-4,200	788,397	5,00	787,848	787,572	788,187	0,339	11,931	787,590	-5,00				13,431	787,515	5,00	13,733	787,517	100,00
29011+0,000	-5,539	788,375	100,000	-5,200	788,037	25,00	-4,200	788,287	5,00	787,774	787,462	788,077	0,303	10,787	787,537	-5,00				12,287	787,462	5,00	12,594	787,469	100,00
29011+10,000	-5,516	788,243	100,000	-5,200	787,927	25,00	-4,200	788,177	5,00	787,691	787,352	787,967	0,276	9,801	787,477	-5,00				11,301	787,402	5,00	11,635	787,435	100,00
29012+0,000	-5,481	788,098	100,000	-5,200	787,817	25,00	-4,200	788,067	5,00	787,560	787,242	787,857	0,297	8,973	787,408	-5,00				10,473	787,333	5,00	10,797	787,357	100,00
29012+10,000	-5,418	787,925	100,000	-5,200	787,707	25,00	-4,200	787,957	5,00	787,523	787,132	787,747	0,224	8,302	787,331	-5,00				9,802	787,256	5,00	10,121	787,275	100,00
29013+0,000				-5,200	787,797	5,00	-4,200	787,847	5,00	787,434	787,022	787,637	0,203	7,790	787,247	-5,00				9,290	787,172	5,00	9,625	787,207	100,00
29013+10,000	-5,229	787,668	-66,670	-5,200	787,687	5,00	-4,200	787,737	5,00	787,313	786,912	787,527	0,214	7,436	787,155	-5,00				8,936	787,080	5,00	9,302	787,145	100,00
29014+0,000	-5,243	787,548	-66,670	-5,200	787,577	5,00	-4,200	787,627	5,00	787,243	786,802	787,417	0,174	7,240	787,055	-5,00				8,740	786,980	5,00	9,200	787,139	100,00
29014+10,000	-5,243	787,438	-66,670	-5,200	787,467	5,00	-4,200	787,517	5,00	787,182	786,692	787,307	0,125	7,240	786,945	-5,00				8,740	786,870	5,00	9,200	787,029	100,00

1.3.2 BR-277 – Pista esquerda

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA																											
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO										
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28737+7,664													797,904	797,283	797,898	-0,006							1,500	-0,375	25,00			
28747+0,000													794,556	793,941	794,556								1,500	-0,375	25,00			
28748+0,000										-3,600	793,438	-2,00	794,148	793,510	794,125	-0,023	4,505	793,600	2,00				6,005	793,840	25,00			
28749+0,000	-5,997	793,446	-66,67	-5,809	793,571	5,02	-5,306	792,982	-5,00	-3,600	793,067	-2,00	793,683	793,139	793,754	0,071	4,505	793,229	2,00				6,005	793,469	25,00			
28750+0,000	-7,988	792,935	-66,67	-7,600	793,194	5,00	-7,097	792,604	-5,00	-3,600	792,779	-2,00	793,184	792,851	793,466	0,282	4,505	792,941	2,00				6,005	793,181	25,00			
28751+0,000	-8,214	792,579	-66,67	-7,600	792,989	5,00	-7,097	792,399	-5,00	-3,600	792,574	-2,00	792,786	792,646	793,261	0,475	4,505	792,736	2,00				6,005	792,976	25,00			
28752+0,000	-8,969	791,952	-66,67	-7,600	792,865	5,00	-7,097	792,275	-5,00	-3,600	792,450	-2,00	792,422	792,522	793,137	0,715	4,505	792,612	2,00				6,005	792,852	25,00			
28753+0,000	-9,322	791,617	-66,67	-7,600	792,765	5,00	-7,097	792,175	-5,00	-3,600	792,350	-2,00	792,088	792,422	793,037	0,949	4,505	792,512	2,00				6,005	792,752	25,00			
28754+0,000	-10,139	790,972	-66,67	-7,600	792,665	5,00	-7,097	792,075	-5,00	-3,600	792,250	-2,00	791,845	792,322	792,937	1,092	4,505	792,412	2,00				6,005	792,652	25,00			
28755+0,000	-10,890	790,372	-66,67	-7,600	792,565	5,00	-7,097	791,975	-5,00	-3,600	792,150	-2,00	791,629	792,222	792,837	1,208	4,505	792,312	2,00				6,005	792,552	25,00			
28756+0,000	-12,360	789,291	-66,67	-7,600	792,465	5,00	-7,097	791,875	-5,00	-3,600	792,050	-2,00	791,446	792,122	792,737	1,291	4,505	792,212	2,00				6,005	792,452	25,00			
28757+0,000	-11,828	789,546	-66,67	-7,600	792,365	5,00	-7,097	791,775	-5,00	-3,600	791,950	-2,00	791,292	792,022	792,637	1,345	4,505	792,112	2,00				6,005	792,352	25,00			
28758+0,000	-11,220	789,852	-66,67	-7,600	792,265	5,00	-7,097	791,675	-5,00	-3,600	791,850	-2,00	791,063	791,922	792,537	1,474	4,505	792,012	2,00				6,005	792,252	25,00			
28759+0,000	-10,442	790,270	-66,67	-7,600	792,165	5,00	-7,097	791,575	-5,00	-3,600	791,750	-2,00	790,925	791,822	792,437	1,512	4,505	791,912	2,00				6,005	792,152	25,00			
28760+0,000	-9,663	790,689	-66,67	-7,600	792,065	5,00	-7,097	791,475	-5,00	-3,600	791,650	-2,00	790,913	791,722	792,337	1,424	4,505	791,812	2,00				6,005	792,052	25,00			
28761+0,000	-9,261	790,857	-66,67	-7,600	791,965	5,00	-7,097	791,375	-5,00	-3,600	791,550	-2,00	790,983	791,622	792,237	1,254	4,505	791,712	2,00				6,005	791,952	25,00			
28762+0,000	-8,839	791,039	-66,67	-7,600	791,865	5,00	-7,097	791,275	-5,00	-3,600	791,450	-2,00	791,130	791,522	792,137	1,007	4,505	791,612	2,00				6,005	791,852	25,00			
28763+0,000	-9,820	790,293	-66,67	-7,600	791,773	5,00	-7,097	791,183	-5,00	-3,600	791,358	-2,00	791,348	791,430	792,045	0,697	4,505	791,520	2,00				6,005	791,760	25,00			
28764+0,000	-8,221	791,336	-66,67	-7,600	791,750	5,00	-7,097	791,160	-5,00	-3,600	791,335	-2,00	791,557	791,407	792,022	0,465	4,505	791,497	2,00				6,005	791,737	25,00			
28765+0,000	-8,015	791,532	-66,67	-7,600	791,808	5,00	-7,097	791,218	-5,00	-3,600	791,393	-2,00	791,817	791,465	792,080	0,263	4,505	791,555	2,00				6,005	791,795	25,00			
28766+0,000	-7,965	792,013	100,00	-7,600	791,648	12,50	-7,097	791,358	-5,00	-3,600	791,533	-2,00	792,132	791,605	792,220	0,088	4,505	791,695	2,00				6,005	791,935	25,00			
28767+0,000	-8,156	792,426	100,00	-7,600	791,870	12,50	-7,097	791,580	-5,00	-3,600	791,755	-2,00	792,424	791,827	792,442	0,018	4,505	791,917	2,00				6,005	792,157	25,00			
28768+0,000	-8,156	792,721	100,00	-7,600	792,165	12,50	-7,097	791,875	-5,00	-3,600	792,050	-2,00	792,721	792,122	792,737	0,016	4,505	792,212	2,00				6,005	792,452	25,00			
28769+0,000	-8,156	793,029	100,00	-7,600	792,473	12,50	-7,097	792,183	-5,00	-3,600	792,358	-2,00	793,039	792,430	793,045	0,006	4,505	792,520	2,00				6,005	792,760	25,00			
28770+0,000	-8,156	793,337	100,00	-7,600	792,781	12,50	-7,097	792,492	-5,00	-3,600	792,666	-2,00	793,343	792,738	793,353	0,010	4,505	792,829	2,00				6,005	793,069	25,00			
28771+0,000	-8,156	793,646	100,00	-7,600	793,090	12,50	-7,097	792,800	-5,00	-3,600	792,975	-2,00	793,731	793,047	793,662	-0,069	4,505	793,137	2,00				6,005	793,377	25,00			
28772+0,000	-8,156	793,954	100,00	-7,600	793,398	12,50	-7,097	793,108	-5,00	-3,600	793,283	-2,00	793,953	793,355	793,970	0,017	4,505	793,445	2,00				6,005	793,685	25,00			
28773+0,000	-8,156	794,259	100,00	-7,600	793,703	12,50	-7,097	793,413	-5,00	-3,600	793,588	-2,00	794,222	793,660	794,275	0,053	4,505	793,750	2,00				6,005	793,990	25,00			
28774+0,000	-8,156	794,502	100,00	-7,600	793,946	12,50	-7,097	793,656	-5,00	-3,600	793,831	-2,00	794,457	793,903	794,518	0,061	4,505	793,993	2,00				6,005	794,233	25,00			
28775+0,000	-8,156	794,658	100,00	-7,600	794,102	12,50	-7,097	793,812	-5,00	-3,600	793,987	-2,00	794,699	794,059	794,674	-0,025	4,505	794,149	2,00				6,005	794,389	25,00			
28776+0,000	-8,156	794,726	100,00	-7,600	794,170	12,50	-7,097	793,880	-5,00	-3,600	794,055	-2,00	794,753	794,127	794,742	-0,011	4,505	794,217	2,00				6,005	794,457	25,00			
28777+0,000	-8,156	794,708	100,00	-7,600	794,152	12,50	-7,097	793,862	-5,00	-3,600	794,037	-2,00	794,752	794,109	794,724	-0,028	4,505	794,199	2,00				6,005	794,439	25,00			
28778+0,000	-8,156	794,602	100,00	-7,600	794,046	12,50	-7,097	793,756	-5,00	-3,600	793,931	-2,00	794,670	794,003	794,618	-0,052	4,505	794,093	2,00				6,005	794,333	25,00			

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28779+0,000	-8,156	794,409	100,00	-7,600	793,853	12,50	-7,097	793,563	-5,00	-3,600	793,738	-2,00	794,470	793,810	794,425	-0,045	4,505	793,900	2,00				6,005	794,140	25,00			
28780+0,000	-8,156	794,154	100,00	-7,600	793,598	12,50	-7,097	793,308	-5,00	-3,600	793,483	-2,00	794,266	793,555	794,170	-0,096	4,505	793,645	2,00				6,005	793,885	25,00			
28781+0,000	-8,156	793,896	100,00	-7,600	793,340	12,50	-7,097	793,050	-5,00	-3,600	793,225	-2,00	793,989	793,297	793,912	-0,077	4,505	793,387	2,00				6,005	793,627	25,00			
28782+0,000	-8,156	793,638	100,00	-7,600	793,082	12,50	-7,097	792,792	-5,00	-3,600	792,967	-2,00	793,717	793,039	793,654	-0,063	4,505	793,129	2,00				6,005	793,369	25,00			
28783+0,000	-8,156	793,379	100,00	-7,600	792,823	12,50	-7,097	792,534	-5,00	-3,600	792,708	-2,00	793,406	792,780	793,395	-0,011	4,505	792,871	2,00				6,005	793,111	25,00			
28784+0,000	-8,156	793,121	100,00	-7,600	792,565	12,50	-7,097	792,276	-5,00	-3,600	792,450	-2,00	793,040	792,522	793,137	0,097	4,505	792,612	2,00				6,005	792,852	25,00			
28785+0,000	-8,156	792,863	100,00	-7,600	792,307	12,50	-7,097	792,017	-5,00	-3,600	792,192	-2,00	782,739	792,264	792,879	10,140	4,505	792,354	2,00				6,005	792,594	25,00			
28786+0,000	-8,156	792,605	100,00	-7,600	792,049	12,50	-7,097	791,759	-5,00	-3,600	791,934	-2,00	792,443	792,006	792,621	0,178	4,505	792,096	2,00				6,005	792,336	25,00			
28787+0,000	-8,156	792,347	100,00	-7,600	791,791	12,50	-7,097	791,501	-5,00	-3,600	791,676	-2,00	792,340	791,748	792,363	0,023	4,505	791,838	2,00				6,005	792,078	25,00			
28788+0,000	-8,156	792,089	100,00	-7,600	791,533	12,50	-7,097	791,243	-5,00	-3,600	791,418	-2,00	792,102	791,490	792,105	0,003	4,505	791,580	2,00				6,005	791,820	25,00			
28789+0,000	-8,044	791,718	100,00	-7,600	791,275	12,50	-7,097	790,985	-5,00	-3,600	791,160	-2,00	791,877	791,232	791,847	-0,030	4,505	791,322	2,00				6,005	791,562	25,00			
28790+0,000	-8,051	791,468	100,00	-7,600	791,017	12,50	-7,097	790,727	-5,00	-3,600	790,902	-2,00	791,674	790,974	791,589	-0,085	4,505	791,064	2,00				6,005	791,304	25,00			
28791+0,000	-8,050	790,759	-66,67	-7,600	791,059	5,00	-7,097	790,469	-5,00	-3,600	790,644	-2,00	791,453	790,716	791,331	-0,122	4,505	790,806	2,00				6,005	791,046	25,00			
28792+0,000	-7,950	790,850	100,00	-7,600	790,501	12,50	-7,097	790,211	-5,00	-3,600	790,386	-2,00	791,222	790,458	791,073	-0,149	4,505	790,548	2,00				6,005	790,788	25,00			
28793+0,000	-7,955	790,597	100,00	-7,600	790,242	12,50	-7,097	789,953	-5,00	-3,600	790,127	-2,00	790,900	790,199	790,814	-0,086	4,505	790,290	2,00				6,005	790,530	25,00			
28794+0,000	-8,266	789,841	-66,67	-7,600	790,284	5,00	-7,097	789,694	-5,00	-3,600	789,869	-2,00	790,612	789,941	790,556	-0,056	4,505	790,031	2,00				6,005	790,271	25,00			
28795+0,000	-8,374	789,510	-66,67	-7,600	790,026	5,00	-7,097	789,436	-5,00	-3,600	789,611	-2,00	790,246	789,683	790,298	0,052	4,505	789,773	2,00				6,005	790,013	25,00			
28796+0,000	-8,193	789,373	-66,67	-7,600	789,768	5,00	-7,097	789,178	-5,00	-3,600	789,353	-2,00	789,967	789,425	790,040	0,073	4,505	789,515	2,00				6,005	789,755	25,00			
28797+0,000	-8,401	788,976	-66,67	-7,600	789,510	5,00	-7,097	788,920	-5,00	-3,600	789,095	-2,00	789,631	789,167	789,782	0,151	4,505	789,257	2,00				6,005	789,497	25,00			
28798+0,000	-7,745	789,155	-66,67	-7,600	789,252	5,00	-7,097	788,662	-5,00	-3,600	788,837	-2,00	789,420	788,909	789,524	0,104	4,505	788,999	2,00				6,005	789,239	25,00			
28799+0,000	-8,157	788,622	-66,67	-7,600	788,994	5,00	-7,097	788,404	-5,00	-3,600	788,579	-2,00	789,230	788,651	789,266	0,036	4,505	788,741	2,00				6,005	788,981	25,00			
28800+0,000	-8,043	788,878	100,00	-7,600	788,436	12,50	-7,097	788,146	-5,00	-3,600	788,321	-2,00	789,002	788,393	789,008	0,006	4,505	788,483	2,00				6,005	788,723	25,00			
28801+0,000	-8,017	788,595	100,00	-7,600	788,178	12,50	-7,097	787,888	-5,00	-3,600	788,063	-2,00	788,755	788,135	788,750	-0,005	4,505	788,225	2,00				6,005	788,465	25,00			
28802+0,000	-7,993	788,313	100,00	-7,600	787,920	12,50	-7,097	787,630	-5,00	-3,600	787,805	-2,00	788,498	787,877	788,492	-0,006	4,505	787,967	2,00				6,005	788,207	25,00			
28803+0,000	-7,978	788,039	100,00	-7,600	787,661	12,50	-7,097	787,372	-5,00	-3,600	787,546	-2,00	788,191	787,618	788,233	0,042	4,505	787,709	2,00				6,005	787,949	25,00			
28804+0,000	-7,890	787,693	100,00	-7,600	787,403	12,50	-7,097	787,113	-5,00	-3,600	787,288	-2,00	787,952	787,360	787,975	0,023	4,505	787,450	2,00				6,005	787,690	25,00			
28805+0,000	-7,998	787,543	100,00	-7,600	787,145	12,50	-7,097	786,855	-5,00	-3,600	787,030	-2,00	787,736	787,102	787,717	-0,019	4,505	787,192	2,00				6,005	787,432	25,00			
28806+0,000	-8,010	787,306	100,00	-7,600	786,896	12,50	-7,097	786,606	-5,00	-3,600	786,781	-2,00	787,544	786,853	787,468	-0,076	4,505	786,943	2,00				6,005	787,183	25,00			
28806+17,569	-7,859	786,959	100,00	-7,600	786,700	12,50	-7,097	786,411	-5,00	-3,600	786,585	-2,00	787,333	786,657	787,272	-0,061	4,505	786,748	2,00				6,005	786,988	25,00			
28807+0,000	-7,906	786,980	100,00	-7,600	786,674	12,50	-7,097	786,384	-5,00	-3,600	786,559	-2,00	787,305	786,631	787,246	-0,059	4,200	786,715	2,00	5,096	786,733	2,00	5,700	787,255	5,00	6,197	787,028	-66,67
28807+10,000	-7,890	786,854	100,00	-7,600	786,563	12,50	-7,097	786,273	-5,00	-3,600	786,448	-2,00	787,124	786,520	787,135	0,011	4,200	786,604	2,00	5,096	786,622	2,00	5,700	787,144	5,00	6,239	786,890	-66,67
28808+0,000	-7,633	786,731	-66,67	-7,600	786,753	5,00	-7,097	786,163	-5,00	-3,600	786,338	-2,00	786,961	786,410	787,025	0,064	4,200	786,494	2,00	5,096	786,512	2,00	5,700	787,034	5,00	6,262	786,764	-66,67
28808+10,000	-7,805	786,506	-66,67	-7,600	786,643	5,00	-7,097	786,053	-5,00	-3,600	786,228	-2,00	786,846	786,300	786,915	0,069	4,200	786,384	2,00	5,096	786,402	2,00	5,700	786,924	5,00	6,239	786,670	-66,67
28809+0,000	-7,699	786,466	-66,67	-7,600	786,533	5,00	-7,097	785,943	-5,00	-3,600	786,118	-2,00	786,746	786,190	786,805	0,059	4,200	786,274	2,00	5,096	786,291	2,00	5,700	786,814	5,00	6,186	786,594	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28809+10,000	-8,185	786,032	-66,67	-7,600	786,422	5,00	-7,097	785,832	-5,00	-3,600	786,007	-2,00	786,665	786,079	786,694	0,029	4,200	786,163	2,00	5,096	786,181	2,00	5,700	786,703	5,00	6,120	786,529	-66,67
28810+0,000	-7,921	786,098	-66,67	-7,600	786,312	5,00	-7,097	785,722	-5,00	-3,600	785,897	-2,00	786,602	785,969	786,584	-0,018	4,200	786,053	2,00	5,096	786,071	2,00	5,700	786,593	5,00	6,096	786,434	-66,67
28810+10,000	-8,153	785,833	-66,67	-7,600	786,202	5,00	-7,097	785,612	-5,00	-3,600	785,787	-2,00	786,487	785,859	786,474	-0,013	4,200	785,943	2,00	5,096	785,961	2,00	5,700	786,483	5,00	6,034	786,365	-66,67
28811+0,000	-8,438	785,533	-66,67	-7,600	786,091	5,00	-7,097	785,502	-5,00	-3,600	785,676	-2,00	786,385	785,748	786,363	-0,022	4,200	785,832	2,00	5,096	785,850	2,00	5,700	786,372	5,00	5,928	786,326	-66,67
28811+10,000	-8,093	785,652	-66,67	-7,600	785,981	5,00	-7,097	785,391	-5,00	-3,600	785,566	-2,00	786,282	785,638	786,253	-0,029	4,200	785,722	2,00	5,096	785,740	2,00	5,700	786,262	5,00	5,819	786,288	-66,67
28812+0,000	-8,426	785,320	-66,67	-7,600	785,871	5,00	-7,097	785,281	-5,00	-3,600	785,456	-2,00	786,201	785,528	786,143	-0,058	4,200	785,612	2,00	5,096	785,630	2,00	5,700	786,152	5,00	6,101	786,252	100,00
28812+10,000	-8,464	785,182	-66,67	-7,600	785,758	5,00	-7,097	785,168	-5,00	-3,600	785,343	-2,00	786,104	785,415	786,030	-0,074	4,200	785,499	2,00	5,096	785,517	2,00	5,700	786,039	5,00	6,166	786,205	100,00
28813+0,000	-8,640	784,948	-66,67	-7,600	785,641	5,00	-7,097	785,051	-5,00	-3,600	785,226	-2,00	785,997	785,298	785,913	-0,084	4,200	785,382	2,00	5,096	785,400	2,00	5,700	785,922	5,00	6,182	786,104	100,00
28813+10,000	-8,717	784,776	-66,67	-7,600	785,521	5,00	-7,097	784,931	-5,00	-3,600	785,106	-2,00	785,775	785,178	785,793	0,018	4,200	785,262	2,00	5,096	785,280	2,00	5,700	785,802	5,00	6,179	785,981	100,00
28814+0,000	-8,842	784,569	-66,67	-7,600	785,397	5,00	-7,097	784,807	-5,00	-3,600	784,982	-2,00	785,569	785,054	785,669	0,100	4,200	785,138	2,00	5,096	785,156	2,00	5,700	785,678	5,00	6,148	785,825	100,00
28814+10,000	-8,794	784,473	-66,67	-7,600	785,269	5,00	-7,097	784,679	-5,00	-3,600	784,854	-2,00	785,497	784,926	785,541	0,044	4,200	785,010	2,00	5,096	785,028	2,00	5,700	785,550	5,00	6,169	785,719	100,00
28815+0,000	-8,695	784,408	-66,67	-7,600	785,138	5,00	-7,097	784,548	-5,00	-3,600	784,723	-2,00	785,340	784,795	785,410	0,070	4,200	784,879	2,00	5,096	784,897	2,00	5,700	785,419	5,00	6,197	785,616	100,00
28815+10,000	-7,867	784,215	-66,67	-6,607	785,055	4,99	-6,104	784,465	-5,00	-3,600	784,590	-2,00	785,199	784,662	785,277	0,078	4,200	784,746	2,00	5,096	784,764	2,00	5,700	785,286	5,00	6,220	785,507	100,00
28816+0,000										-3,600	784,458	-2,00	785,113	784,530	785,145	0,032	4,200	784,614	2,00	5,096	784,632	2,00	5,700	785,154	5,00	6,218	785,372	100,00
28816+10,000										-3,600	784,326	-2,00	784,848	784,398	785,013	0,165	4,200	784,482	2,00	5,096	784,499	2,00	5,700	785,022	5,00	6,220	785,242	100,00
28817+0,000										-3,600	784,193	-2,00	784,765	784,265	784,880	0,115	4,200	784,349	2,00	5,096	784,367	2,00	5,700	784,889	5,00	6,172	785,061	100,00
28817+10,000	-9,378	784,077	-66,67	-8,700	784,529	5,00	-8,197	783,939	-5,00	-7,200	783,989	-2,00	784,619	784,133	784,748	0,129	4,200	784,217	2,00	5,096	784,235	2,00	5,700	784,757	5,00	6,162	784,919	100,00
28818+0,000	-9,387	783,938	-66,67	-8,700	784,396	5,00	-8,197	783,807	-5,00	-7,200	783,856	-2,00	784,465	784,000	784,615	0,150	4,200	784,084	2,00	5,096	784,102	2,00	5,700	784,624	5,00	6,162	784,786	100,00
28818+10,000	-9,083	783,886	-66,67	-8,510	784,268	5,00	-8,007	783,678	-5,00	-7,009	783,728	-2,00	784,301	783,868	784,483	0,182	4,200	783,952	2,00	5,096	783,970	2,00	5,700	784,492	5,00	6,160	784,652	100,00
28818+10,645	-9,055	783,879	-66,67	-8,484	784,260	5,00	-7,981	783,670	-5,00	-6,984	783,720	-2,00	784,291	783,859	784,474	0,183	4,200	783,943	2,00	5,096	783,961	2,00	5,700	784,483	5,00	6,159	784,643	100,00
28819+0,000	-8,492	783,879	-66,67	-8,095	784,144	5,00	-7,593	783,554	-5,00	-6,595	783,604	-2,00	784,188	783,736	784,351	0,163	4,200	783,820	2,00	5,096	783,838	2,00	5,700	784,360	5,00	6,154	784,514	100,00
28819+10,000	-8,010	783,774	-66,67	-7,641	784,020	5,00	-7,138	783,431	-5,00	-6,141	783,480	-2,00	784,023	783,603	784,218	0,195	4,200	783,687	2,00	5,096	783,705	2,00	5,700	784,227	5,00	5,718	784,320	-66,67
28820+0,000	-7,852	783,707	-66,67	-7,600	783,875	5,02	-7,097	783,285	-5,00	-5,647	783,358	-2,00	783,885	783,471	784,086	0,201	4,200	783,555	2,00	5,096	783,573	2,00	5,700	784,095	5,00	5,718	784,188	-66,67
28820+10,000	-7,849	783,561	-66,67	-7,600	783,727	4,98	-7,097	783,137	-5,00	-5,112	783,236	-2,00	783,726	783,338	783,953	0,227	4,200	783,422	2,00	5,096	783,440	2,00	5,700	783,962	5,00	6,147	784,110	100,00
28821+0,000	-7,832	783,423	-66,67	-7,600	783,577	5,00	-7,097	782,987	-5,00	-4,537	783,115	-2,00	783,566	783,206	783,821	0,255	4,200	783,290	2,00	5,096	783,308	2,00	5,700	783,830	5,00	6,144	783,974	100,00
28821+10,000	-7,891	783,232	-66,67	-7,600	783,426	5,00	-7,097	782,836	-5,00	-3,923	782,995	-2,00	783,394	783,074	783,689	0,295	4,200	783,158	2,00	5,096	783,176	2,00	5,700	783,698	5,00	5,708	783,797	-66,67
28822+0,000	-8,106	782,946	-66,67	-7,600	783,284	5,00	-7,097	782,694	-5,00	-3,600	782,869	-2,00	783,162	782,941	783,556	0,394	4,200	783,025	2,00	5,096	783,043	2,00	5,700	783,565	5,00	5,740	783,644	-66,67
28822+10,000	-8,313	782,668	-66,67	-7,600	783,144	5,00	-7,097	782,554	-5,00	-3,600	782,729	-2,00	783,060	782,801	783,416	0,356	4,200	782,885	2,00	5,096	782,902	2,00	5,700	783,425	5,00	5,732	783,508	-66,67
28823+0,000	-8,397	782,461	-66,67	-7,600	782,992	5,00	-7,097	782,402	-5,00	-3,600	782,577	-2,00	782,812	782,649	783,264	0,452	4,200	782,733	2,00	5,096	782,751	2,00	5,700	783,273	5,00	5,746	783,348	-66,67
28823+10,000	-8,449	782,264	-66,67	-7,600	782,830	5,00	-7,097	782,240	-5,00	-3,600	782,415	-2,00	782,625	782,487	783,102	0,477	4,200	782,571	2,00	5,096	782,589	2,00	5,700	783,111	5,00	5,742	783,188	-66,67
28824+0,000	-8,461	782,083	-66,67	-7,600	782,657	5,00	-7,097	782,067	-5,00	-3,600	782,242	-2,00	782,445	782,314	782,929	0,484	4,200	782,398	2,00	5,096	782,416	2,00	5,700	782,938	5,00	5,721	783,029	-66,67
28824+10,000	-8,449	781,907	-66,67	-7,600	782,473	5,00	-7,097	781,883	-5,00	-3,600	782,058	-2,00	782,316	782,130	782,745	0,429	4,200	782,214	2,00	5,096	782,232	2,00	5,700	782,754	5,00	5,733	782,837	-66,67
28825+0,000	-8,285	781,822	-66,67	-7,600	782,278	5,00	-7,097	781,688	-5,00	-3,600	781,863	-2,00	782,245	781,935	782,550	0,305	4,200	782,019	2,00	5,096	782,037	2,00	5,700	782,559	5,00	5,795	782,601	-66,67
28825+10,000	-8,200	781,673	-66,67	-7,600	782,072	5,00	-7,097	781,483	-5,00	-3,600	781,657	-2,00	782,010	781,729	782,344	0,334	4,200	781,813	2,00	5,096	781,831	2,00	5,700	782,353	5,00	5,852	782,357	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28826+0,000	-8,027	781,571	-66,67	-7,600	781,856	5,00	-7,097	781,266	-5,00	-3,600	781,441	-2,00	781,852	781,513	782,128	0,276	4,200	781,597	2,00	5,096	781,615	2,00	5,700	782,137	5,00	5,868	782,130	-66,67
28826+10,000	-8,289	781,168	-66,67	-7,600	781,628	5,00	-7,097	781,038	-5,00	-3,600	781,213	-2,00	781,621	781,285	781,900	0,279	4,200	781,369	2,00	5,096	781,387	2,00	5,700	781,909	5,00	5,797	781,950	-66,67
28827+0,000	-8,398	780,858	-66,67	-7,600	781,390	5,00	-7,097	780,800	-5,00	-3,600	780,975	-2,00	781,336	781,047	781,662	0,326	4,200	781,131	2,00	5,096	781,149	2,00	5,700	781,671	5,00	5,823	781,694	-66,67
28827+10,000	-8,348	780,642	-66,67	-7,600	781,140	5,00	-7,097	780,550	-5,00	-3,600	780,725	-2,00	781,070	780,797	781,412	0,342	4,200	780,881	2,00	5,096	780,899	2,00	5,700	781,421	5,00	5,884	781,404	-66,67
28828+0,000	-8,330	780,394	-66,67	-7,600	780,880	5,00	-7,097	780,290	-5,00	-3,600	780,465	-2,00	780,708	780,537	781,152	0,444	4,200	780,621	2,00	5,096	780,639	2,00	5,700	781,161	5,00	5,895	781,137	-66,67
28828+10,000	-8,327	780,132	-66,67	-7,600	780,617	5,00	-7,097	780,027	-5,00	-3,600	780,202	-2,00	780,417	780,274	780,889	0,472	4,200	780,358	2,00	5,096	780,376	2,00	5,700	780,898	5,00	5,897	780,872	-66,67
28829+0,000	-8,320	779,874	-66,67	-7,600	780,354	5,00	-7,097	779,764	-5,00	-3,600	779,939	-2,00	780,100	780,011	780,626	0,526	4,200	780,095	2,00	5,096	780,113	2,00	5,700	780,635	5,00	5,910	780,600	-66,67
28829+10,000	-8,323	779,609	-66,67	-7,600	780,091	5,00	-7,097	779,501	-5,00	-3,600	779,676	-2,00	779,843	779,748	780,363	0,520	4,200	779,832	2,00	5,096	779,850	2,00	5,700	780,372	5,00	5,936	780,319	-66,67
28830+0,000	-8,327	779,343	-66,67	-7,600	779,828	5,00	-7,097	779,238	-5,00	-3,600	779,413	-2,00	779,582	779,485	780,100	0,518	4,200	779,569	2,00	5,096	779,587	2,00	5,700	780,109	5,00	5,960	780,040	-66,67
28830+3,721	-8,261	779,289	-66,67	-7,600	779,730	5,00	-7,097	779,140	-5,00	-3,600	779,315	-2,00	779,514	779,387	780,002	0,488	4,200	779,471	2,00	5,096	779,489	2,00	5,700	780,011	5,00	5,970	779,936	-66,67
28831+0,000	-7,962	779,060	-66,67	-7,600	779,301	5,00	-7,097	778,712	-5,00	-3,600	778,886	-2,00	779,109	778,958	779,573	0,464	4,200	779,042	2,00	5,096	779,060	2,00	5,700	779,582	5,00	6,045	779,458	-66,67
28832+0,000	-7,999	778,509	-66,67	-7,600	778,775	5,00	-7,097	778,185	-5,00	-3,600	778,360	-2,00	778,870	778,432	779,047	0,177	4,200	778,516	2,00	5,096	778,534	2,00	5,700	779,056	5,00	6,072	778,913	-66,67
28833+0,000	-8,698	777,517	-66,67	-7,600	778,249	5,00	-7,097	777,659	-5,00	-3,600	777,834	-2,00	778,034	777,906	778,521	0,487	4,200	777,990	2,00	5,096	778,008	2,00	5,700	778,530	5,00	6,022	778,420	-66,67
28834+0,000	-9,340	776,562	-66,67	-7,600	777,722	5,00	-7,097	777,133	-5,00	-3,600	777,307	-2,00	777,048	777,379	777,994	0,946	4,200	777,463	2,00	5,096	777,481	2,00	5,700	778,003	5,00	6,183	777,787	-66,67
28835+0,000	-9,668	775,818	-66,67	-7,600	777,197	5,00	-7,097	776,607	-5,00	-3,600	776,782	-2,00	776,528	776,854	777,469	0,941	4,200	776,938	2,00	5,096	776,956	2,00	5,700	777,478	5,00	6,335	777,160	-66,67
28836+0,000	-10,437	774,827	-66,67	-7,600	776,718	5,00	-7,097	776,128	-5,00	-3,600	776,303	-2,00	775,380	776,375	776,990	1,610	4,200	776,459	2,00	5,096	776,477	2,00	5,700	776,999	5,00	6,354	776,669	-66,67
28837+0,000	-11,312	773,843	-66,67	-7,600	776,318	5,00	-7,097	775,728	-5,00	-3,600	775,903	-2,00	774,562	775,975	776,590	2,028	4,200	776,059	2,00	5,096	776,077	2,00	5,700	776,599	5,00	6,396	776,240	-66,67
28838+0,000	-12,238	772,903	-66,67	-7,600	775,995	5,00	-7,097	775,405	-5,00	-3,600	775,580	-2,00	773,614	775,652	776,267	2,653	4,200	775,736	2,00	5,096	775,754	2,00	5,700	776,276	5,00	6,398	775,916	-66,67
28839+0,000	-13,017	772,139	-66,67	-7,600	775,750	5,00	-7,097	775,160	-5,00	-3,600	775,335	-2,00	772,026	775,407	776,022	3,996	4,200	775,491	2,00	5,096	775,509	2,00	5,700	776,031	5,00	7,165	775,160	-66,67
28840+0,000	-14,743	770,821	-66,67	-7,600	775,583	5,00	-7,097	774,993	-5,00	-3,600	775,168	-2,00	771,111	775,240	775,855	4,744	4,200	775,324	2,00	5,096	775,342	2,00	5,700	775,864	5,00	7,356	774,865	-66,67
28841+0,000	-12,443	772,266	-66,67	-7,600	775,494	5,00	-7,097	774,904	-5,00	-3,600	775,079	-2,00	772,072	775,151	775,766	3,694	4,200	775,235	2,00	5,096	775,253	2,00	5,700	775,775	5,00	7,589	774,621	-66,67
28842+0,000	-12,961	771,909	-66,67	-7,600	775,483	5,00	-7,097	774,893	-5,00	-3,600	775,068	-2,00	772,774	775,140	775,755	2,981	4,200	775,224	2,00	5,096	775,242	2,00	5,700	775,764	5,00	6,518	775,324	-66,67
28843+0,000	-11,055	773,246	-66,67	-7,600	775,549	5,00	-7,097	774,959	-5,00	-3,600	775,134	-2,00	773,944	775,206	775,821	1,877	4,200	775,290	2,00	5,096	775,308	2,00	5,700	775,830	5,00	6,990	775,075	-66,67
28844+0,000	-9,418	774,482	-66,67	-7,600	775,694	5,00	-7,097	775,104	-5,00	-3,600	775,279	-2,00	775,171	775,351	775,966	0,795	4,200	775,435	2,00	5,096	775,453	2,00	5,700	775,975	5,00	6,025	775,863	-66,67
28845+0,000	-8,455	775,345	-66,67	-7,600	775,915	5,00	-7,097	775,325	-5,00	-3,600	775,500	-2,00	775,735	775,572	776,187	0,452	4,200	775,656	2,00	5,096	775,674	2,00	5,700	776,196	5,00	5,901	776,168	-66,67
28846+0,000	-7,742	776,073	-66,67	-7,600	776,167	5,00	-7,097	775,577	-5,00	-3,600	775,752	-2,00	776,357	775,824	776,439	0,082	4,200	775,908	2,00	5,096	775,926	2,00	5,700	776,448	5,00	6,159	776,607	100,00
28847+0,000	-7,892	776,412	100,00	-7,600	776,119	12,50	-7,097	775,829	-5,00	-3,600	776,004	-2,00	776,723	776,076	776,691	-0,032	4,200	776,160	2,00	5,096	776,178	2,00	5,700	776,700	5,00	6,139	776,839	100,00
28848+0,000	-7,765	776,561	-66,67	-7,600	776,671	5,00	-7,097	776,081	-5,00	-3,600	776,256	-2,00	776,847	776,328	776,943	0,096	4,200	776,412	2,00	5,096	776,430	2,00	5,700	776,952	5,00	6,200	777,152	100,00
28849+0,000	-8,552	776,289	-66,67	-7,600	776,923	5,00	-7,097	776,333	-5,00	-3,600	776,508	-2,00	776,506	776,580	777,195	0,689	4,200	776,664	2,00	5,096	776,682	2,00	5,700	777,204	5,00	6,161	777,002	-66,67
28850+0,000	-8,599	776,509	-66,67	-7,600	777,175	5,00	-7,097	776,585	-5,00	-3,600	776,760	-2,00	777,048	776,832	777,447	0,399	4,200	776,916	2,00	5,096	776,934	2,00	5,700	777,456	5,00	5,875	777,444	-66,67
28851+0,000	-8,716	776,683	-66,67	-7,600	777,427	5,00	-7,097	776,837	-5,00	-3,600	777,012	-2,00	777,350	777,084	777,699	0,349	4,200	777,168	2,00	5,096	777,186	2,00	5,700	777,708	5,00	5,804	777,744	-66,67
28852+0,000	-9,039	776,719	-66,67	-7,600	777,679	5,00	-7,097	777,089	-5,00	-3,600	777,264	-2,00	777,410	777,336	777,951	0,541	4,200	777,420	2,00	5,096	777,438	2,00	5,700	777,960	5,00	6,323	778,283	100,00
28853+0,000	-8,790	777,107	-66,67	-7,600	777,900	5,00	-7,097	777,310	-5,00	-3,600	777,485	-2,00	777,591	777,557	778,172	0,581	4,200	777,641	2,00	5,096	777,659	2,00	5,700	778,181	5,00	5,918	778,141	-66,67
28854+0,000	-9,288	776,945	-66,67	-7,600	778,071	5,00	-7,097	777,481	-5,00	-3,600	777,656	-2,00	777,592	777,728	778,343	0,751	4,200	777,812	2,00	5,096	777,830	2,00	5,700	778,352	5,00	6,108	778,185	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28855+0,000	-9,852	776,690	-66,67	-7,600	778,192	5,00	-7,097	777,602	-5,00	-3,600	777,777	-2,00	777,129	777,849	778,464	1,335	4,200	777,933	2,00	5,096	777,951	2,00	5,700	778,473	5,00	6,255	778,208	-66,67
28856+0,000	-9,440	777,035	-66,67	-7,600	778,262	5,00	-7,097	777,672	-5,00	-3,600	777,847	-2,00	777,764	777,919	778,534	0,770	4,200	778,003	2,00	5,096	778,021	2,00	5,700	778,543	5,00	6,017	778,436	-66,67
28857+0,000	-9,161	777,241	-66,67	-7,600	778,282	5,00	-7,097	777,693	-5,00	-3,600	777,867	-2,00	777,874	777,939	778,554	0,680	4,200	778,023	2,00	5,096	778,041	2,00	5,700	778,563	5,00	5,982	778,480	-66,67
28858+0,000	-9,390	777,059	-66,67	-7,600	778,253	5,00	-7,097	777,663	-5,00	-3,600	777,838	-2,00	777,331	777,910	778,525	1,194	4,200	777,994	2,00	5,096	778,011	2,00	5,700	778,534	5,00	6,070	778,392	-66,67
28859+0,000	-9,323	777,024	-66,67	-7,600	778,173	5,00	-7,097	777,583	-5,00	-3,600	777,758	-2,00	777,685	777,830	778,445	0,760	4,200	777,914	2,00	5,096	777,931	2,00	5,700	778,454	5,00	5,985	778,368	-66,67
28860+0,000	-9,078	777,057	-66,67	-7,600	778,042	5,00	-7,097	777,452	-5,00	-3,600	777,627	-2,00	777,486	777,699	778,314	0,828	4,200	777,783	2,00	5,096	777,801	2,00	5,700	778,323	5,00	5,999	778,229	-66,67
28861+0,000	-9,208	776,790	-66,67	-7,600	777,862	5,00	-7,097	777,272	-5,00	-3,600	777,447	-2,00	777,255	777,519	778,134	0,879	4,200	777,603	2,00	5,096	777,621	2,00	5,700	778,143	5,00	6,086	777,990	-66,67
28862+0,000	-9,521	776,351	-66,67	-7,600	777,631	5,00	-7,097	777,041	-5,00	-3,600	777,216	-2,00	776,767	777,288	777,903	1,136	4,200	777,372	2,00	5,096	777,390	2,00	5,700	777,912	5,00	6,303	777,615	-66,67
28863+0,000	-10,065	775,708	-66,67	-7,600	777,351	5,00	-7,097	776,761	-5,00	-3,600	776,936	-2,00	776,192	777,008	777,623	1,431	4,200	777,092	2,00	5,096	777,110	2,00	5,700	777,632	5,00	6,323	777,321	-66,67
28864+0,000	-10,268	775,273	-66,67	-7,600	777,051	5,00	-7,097	776,461	-5,00	-3,600	776,636	-2,00	775,576	776,708	777,323	1,747	4,200	776,792	2,00	5,096	776,810	2,00	5,700	777,332	5,00	6,419	776,957	-66,67
28865+0,000	-10,351	774,917	-66,67	-7,600	776,751	5,00	-7,097	776,161	-5,00	-3,600	776,336	-2,00	775,466	776,408	777,023	1,557	4,200	776,492	2,00	5,096	776,510	2,00	5,700	777,032	5,00	6,472	776,622	-66,67
28866+0,000	-11,195	774,054	-66,67	-7,600	776,451	5,00	-7,097	775,861	-5,00	-3,600	776,036	-2,00	774,568	776,108	776,723	2,155	4,200	776,192	2,00	5,096	776,210	2,00	5,700	776,732	5,00	6,399	776,371	-66,67
28867+0,000	-11,546	773,520	-66,67	-7,600	776,151	5,00	-7,097	775,561	-5,00	-3,600	775,736	-2,00	773,932	775,808	776,423	2,491	4,200	775,892	2,00	5,096	775,910	2,00	5,700	776,432	5,00	6,486	776,013	-66,67
28868+0,000	-11,705	773,114	-66,67	-7,600	775,851	5,00	-7,097	775,261	-5,00	-3,600	775,436	-2,00	773,706	775,508	776,123	2,417	4,200	775,592	2,00	5,096	775,610	2,00	5,700	776,132	5,00	6,560	775,663	-66,67
28869+0,000	-11,905	772,681	-66,67	-7,600	775,551	5,00	-7,097	774,961	-5,00	-3,600	775,136	-2,00	773,395	775,208	775,823	2,428	4,200	775,292	2,00	5,096	775,310	2,00	5,700	775,832	5,00	6,450	775,437	-66,67
28870+0,000	-12,015	772,343	-66,67	-7,600	775,286	5,00	-7,097	774,696	-5,00	-3,600	774,871	-2,00	773,572	774,943	775,558	1,986	4,200	775,027	2,00	5,096	775,045	2,00	5,700	775,567	5,00	6,537	775,115	-66,67
28871+0,000	-12,046	772,114	-66,67	-7,600	775,078	5,00	-7,097	774,488	-5,00	-3,600	774,663	-2,00	773,832	774,735	775,350	1,518	4,200	774,819	2,00	5,096	774,837	2,00	5,700	775,359	5,00	6,426	774,980	-66,67
28872+0,000	-11,837	772,101	-66,67	-7,600	774,926	5,00	-7,097	774,336	-5,00	-3,600	774,511	-2,00	772,870	774,583	775,198	2,328	4,200	774,667	2,00	5,096	774,685	2,00	5,700	775,207	5,00	6,396	774,848	-66,67
28873+0,000	-11,734	772,039	-66,67	-7,600	774,796	5,00	-7,097	774,206	-5,00	-3,600	774,381	-2,00	772,596	774,453	775,068	2,472	4,200	774,537	2,00	5,096	774,555	2,00	5,700	775,077	5,00	6,329	774,762	-66,67
28874+0,000	-11,542	772,038	-66,67	-7,600	774,666	5,00	-7,097	774,076	-5,00	-3,600	774,251	-2,00	772,564	774,323	774,938	2,374	4,200	774,407	2,00	5,096	774,425	2,00	5,700	774,947	5,00	6,320	774,638	-66,67
28875+0,000	-11,319	772,056	-66,67	-7,600	774,536	5,00	-7,097	773,946	-5,00	-3,600	774,121	-2,00	772,635	774,193	774,808	2,173	4,200	774,277	2,00	5,096	774,295	2,00	5,700	774,817	5,00	6,683	774,266	-66,67
28876+0,000	-11,369	771,893	-66,67	-7,600	774,406	5,00	-7,097	773,816	-5,00	-3,600	773,991	-2,00	772,834	774,063	774,678	1,844	4,200	774,147	2,00	5,096	774,165	2,00	5,700	774,687	5,00	6,018	774,580	-66,67
28877+0,000	-11,043	771,981	-66,67	-7,600	774,276	5,00	-7,097	773,686	-5,00	-3,600	773,861	-2,00	772,677	773,933	774,548	1,871	4,200	774,017	2,00	5,096	774,035	2,00	5,700	774,557	5,00	6,100	774,395	-66,67
28878+0,000	-10,779	772,026	-66,67	-7,600	774,146	5,00	-7,097	773,556	-5,00	-3,600	773,731	-2,00	772,663	773,803	774,418	1,755	4,200	773,887	2,00	5,096	773,905	2,00	5,700	774,427	5,00	6,552	773,964	-66,67
28879+0,000	-10,717	771,938	-66,67	-7,600	774,016	5,00	-7,097	773,426	-5,00	-3,600	773,601	-2,00	772,729	773,673	774,288	1,559	4,200	773,757	2,00	5,096	773,775	2,00	5,700	774,297	5,00	6,511	773,861	-66,67
28880+0,000	-10,494	771,956	-66,67	-7,600	773,886	5,00	-7,097	773,296	-5,00	-3,600	773,471	-2,00	772,700	773,543	774,158	1,458	4,200	773,627	2,00	5,096	773,645	2,00	5,700	774,167	5,00	6,530	773,719	-66,67
28881+0,000	-10,806	771,618	-66,67	-7,600	773,756	5,00	-7,097	773,166	-5,00	-3,600	773,341	-2,00	772,576	773,413	774,028	1,452	4,200	773,497	2,00	5,096	773,515	2,00	5,700	774,037	5,00	6,526	773,591	-66,67
28882+0,000	-10,498	771,694	-66,67	-7,600	773,626	5,00	-7,097	773,036	-5,00	-3,600	773,211	-2,00	772,424	773,283	773,898	1,474	4,200	773,367	2,00	5,096	773,385	2,00	5,700	773,907	5,00	6,598	773,413	-66,67
28883+0,000	-10,459	771,590	-66,67	-7,600	773,496	5,00	-7,097	772,906	-5,00	-3,600	773,081	-2,00	772,338	773,153	773,768	1,430	4,200	773,237	2,00	5,096	773,255	2,00	5,700	773,777	5,00	6,598	773,283	-66,67
28884+0,000	-10,535	771,409	-66,67	-7,600	773,366	5,00	-7,097	772,776	-5,00	-3,600	772,951	-2,00	772,262	773,023	773,638	1,376	4,200	773,107	2,00	5,096	773,125	2,00	5,700	773,647	5,00	6,517	773,207	-66,67
28885+0,000	-10,527	771,285	-66,67	-7,600	773,236	5,00	-7,097	772,646	-5,00	-3,600	772,821	-2,00	772,142	772,893	773,508	1,366	4,200	772,977	2,00	5,096	772,995	2,00	5,700	773,517	5,00	6,578	773,037	-66,67
28886+0,000	-10,845	771,000	-66,67	-7,600	773,163	5,00	-7,097	772,573	-5,00	-3,600	772,748	-2,00	772,353	772,820	773,435	1,082	4,200	772,904	2,00	5,096	772,922	2,00	5,700	773,444	5,00	6,441	773,055	-66,67
28887+0,000	-9,731	771,762	-66,67	-7,600	773,182	5,00	-7,097	772,592	-5,00	-3,600	772,767	-2,00	772,501	772,839	773,454	0,953	4,200	772,923	2,00	5,096	772,941	2,00	5,700	773,463	5,00	6,466	773,058	-66,67
28888+0,000	-9,939	771,734	-66,67	-7,600	773,294	5,00	-7,097	772,704	-5,00	-3,600	772,879	-2,00	771,826	772,951	773,566	1,740	4,200	773,035	2,00	5,096	773,053	2,00	5,700	773,575	5,00	6,527	773,129	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28889+0,000	-11,550	770,864	-66,67	-7,600	773,497	5,00	-7,097	772,907	-5,00	-3,600	773,082	-2,00	771,404	773,154	773,769	2,365	4,200	773,238	2,00	5,096	773,256	2,00	5,700	773,778	5,00	7,093	772,955	-66,67
28890+0,000	-11,313	771,317	-66,67	-7,600	773,793	5,00	-7,097	773,203	-5,00	-3,600	773,378	-2,00	772,945	773,450	774,065	1,120	4,200	773,534	2,00	5,096	773,552	2,00	5,700	774,074	5,00	6,445	773,682	-66,67
28891+0,000	-9,967	772,603	-66,67	-7,600	774,181	5,00	-7,097	773,591	-5,00	-3,600	773,766	-2,00	773,407	773,838	774,453	1,046	4,200	773,922	2,00	5,096	773,940	2,00	5,700	774,462	5,00	6,648	773,935	-66,67
28892+0,000	-9,815	773,184	-66,67	-7,600	774,661	5,00	-7,097	774,071	-5,00	-3,600	774,246	-2,00	773,738	774,318	774,933	1,195	4,200	774,402	2,00	5,096	774,420	2,00	5,700	774,942	5,00	6,675	774,397	-66,67
28893+0,000	-9,343	774,084	-66,67	-7,600	775,246	4,99	-7,097	774,656	-5,00	-4,011	774,810	-2,00	774,493	774,891	775,506	1,013	4,200	774,975	2,00	5,096	774,993	2,00	5,700	775,515	5,00	6,352	775,185	-66,67
28894+0,000	-8,658	775,235	-66,67	-7,600	775,941	5,00	-7,097	775,351	-5,00	-5,040	775,454	-2,00	775,673	775,555	776,170	0,497	4,200	775,639	2,00	5,096	775,657	2,00	5,700	776,179	5,00	6,291	775,890	-66,67
28895+0,000	-8,376	776,154	-66,67	-7,600	776,672	4,96	-7,097	776,082	-5,00	-6,069	776,133	-2,00	776,396	776,255	776,870	0,474	4,200	776,339	2,00	5,096	776,357	2,00	5,700	776,879	5,00	6,209	776,644	-66,67
28896+0,000	-8,833	777,195	-66,67	-8,597	777,353	5,00	-8,095	776,763	-5,00	-7,097	776,813	-2,00	777,193	776,955	777,570	0,377	4,200	777,039	2,00	5,096	777,057	2,00	5,700	777,579	5,00	6,348	777,252	-66,67
28897+0,000	-8,848	777,952	-66,67	-8,700	778,051	5,00	-8,197	777,461	-5,00	-7,200	777,511	-2,00	778,062	777,655	778,270	0,208	4,200	777,739	2,00	5,096	777,757	2,00	5,700	778,279	5,00	6,307	777,979	-66,67
28898+0,000	-9,174	778,925	100,00	-8,700	778,451	25,00	-8,197	778,161	-5,00	-7,200	778,211	-2,00	778,881	778,355	778,970	0,089	4,200	778,439	2,00	5,096	778,457	2,00	5,700	778,979	5,00	6,234	778,728	-66,67
28899+0,000										-3,600	778,965	-2,00	779,855	779,037	779,652	-0,203	4,200	779,121	2,00	5,096	779,139	2,00	5,700	779,661	5,00	6,116	779,777	100,00
28900+0,000	-8,348	780,516	100,00	-7,514	779,682	12,65	-7,011	779,392	-5,00	-3,600	779,562	-2,00	780,190	779,634	780,249	0,059	4,200	779,718	2,00	5,096	779,736	2,00	5,700	780,258	5,00	6,086	780,106	-66,67
28901+0,000	-8,702	781,285	100,00	-7,600	780,183	12,50	-7,097	779,893	-5,00	-3,600	780,068	-2,00	781,114	780,140	780,755	-0,359	4,200	780,224	2,00	5,096	780,242	2,00	5,700	780,764	5,00	5,828	780,784	-66,67
28902+0,000	-8,761	781,757	100,00	-7,600	780,596	12,50	-7,097	780,306	-5,00	-3,600	780,481	-2,00	781,646	780,553	781,168	-0,478	4,200	780,637	2,00	5,096	780,655	2,00	5,700	781,177	5,00	5,935	781,125	-66,67
28903+0,000	-9,027	782,344	100,00	-7,600	780,917	12,50	-7,097	780,627	-5,00	-3,600	780,802	-2,00	781,794	780,874	781,489	-0,305	4,200	780,958	2,00	5,096	780,976	2,00	5,700	781,498	5,00	5,897	781,472	-66,67
28904+0,000	-8,772	782,319	100,00	-7,600	781,146	12,50	-7,097	780,857	-5,00	-3,600	781,031	-2,00	781,911	781,103	781,718	-0,193	4,200	781,187	2,00	5,096	781,205	2,00	5,700	781,727	5,00	6,023	781,617	-66,67
28905+0,000	-8,885	782,568	100,00	-7,600	781,284	12,50	-7,097	780,994	-5,00	-3,600	781,169	-2,00	782,093	781,241	781,856	-0,237	4,200	781,325	2,00	5,096	781,343	2,00	5,700	781,865	5,00	5,962	781,795	-66,67
28906+0,000	-8,844	782,573	100,00	-7,600	781,329	12,50	-7,097	781,039	-5,00	-3,600	781,214	-2,00	782,160	781,286	781,901	-0,259	4,200	781,370	2,00	5,096	781,388	2,00	5,700	781,910	5,00	5,937	781,857	-66,67
28907+0,000	-8,511	782,193	100,00	-7,600	781,282	12,50	-7,097	780,992	-5,00	-3,600	781,167	-2,00	782,055	781,239	781,854	-0,201	4,200	781,323	2,00	5,096	781,341	2,00	5,700	781,863	5,00	6,036	781,745	-66,67
28908+0,000	-8,300	781,843	100,00	-7,600	781,143	12,50	-7,097	780,854	-5,00	-3,600	781,028	-2,00	781,748	781,100	781,715	-0,033	4,200	781,184	2,00	5,096	781,202	2,00	5,700	781,724	5,00	6,111	781,556	-66,67
28909+0,000	-7,690	781,170	-66,67	-7,600	781,230	5,00	-7,097	780,640	-5,00	-3,600	780,815	-2,00	781,328	780,887	781,502	0,174	4,200	780,971	2,00	5,096	780,989	2,00	5,700	781,511	5,00	6,185	781,293	-66,67
28910+0,000	-7,790	780,884	-66,67	-7,600	781,010	5,00	-7,097	780,420	-5,00	-3,600	780,595	-2,00	781,037	780,667	781,282	0,245	4,200	780,751	2,00	5,096	780,769	2,00	5,700	781,291	5,00	6,130	781,110	-66,67
28911+0,000	-7,932	780,569	-66,67	-7,600	780,790	5,00	-7,097	780,200	-5,00	-3,600	780,375	-2,00	780,757	780,447	781,062	0,305	4,200	780,531	2,00	5,096	780,549	2,00	5,700	781,071	5,00	6,125	780,893	-66,67
28912+0,000	-7,889	780,377	-66,67	-7,600	780,570	5,00	-7,097	779,980	-5,00	-3,600	780,155	-2,00	780,602	780,227	780,842	0,240	4,200	780,311	2,00	5,096	780,329	2,00	5,700	780,851	5,00	6,155	780,653	-66,67
28913+0,000	-7,789	780,224	-66,67	-7,600	780,350	5,00	-7,097	779,760	-5,00	-3,600	779,935	-2,00	780,292	780,007	780,622	0,330	4,200	780,091	2,00	5,096	780,109	2,00	5,700	780,631	5,00	6,240	780,377	-66,67
28914+0,000	-7,884	779,941	-66,67	-7,600	780,130	5,00	-7,097	779,540	-5,00	-3,600	779,715	-2,00	780,126	779,787	780,402	0,276	4,200	779,871	2,00	5,096	779,889	2,00	5,700	780,411	5,00	6,268	780,138	-66,67
28915+0,000	-7,972	779,662	-66,67	-7,600	779,910	5,00	-7,097	779,320	-5,00	-3,600	779,495	-2,00	779,721	779,567	780,182	0,461	4,200	779,651	2,00	5,096	779,669	2,00	5,700	780,191	5,00	6,274	779,914	-66,67
28916+0,000	-8,266	779,246	-66,67	-7,600	779,690	5,00	-7,097	779,100	-5,00	-3,600	779,275	-2,00	779,398	779,347	779,962	0,564	4,200	779,431	2,00	5,096	779,449	2,00	5,700	779,971	5,00	6,236	779,719	-66,67
28917+0,000	-8,328	778,985	-66,67	-7,600	779,470	5,00	-7,097	778,880	-5,00	-3,600	779,055	-2,00	779,234	779,127	779,742	0,508	4,200	779,211	2,00	5,096	779,229	2,00	5,700	779,751	5,00	6,378	779,404	-66,67
28918+0,000	-8,640	778,557	-66,67	-7,600	779,250	5,00	-7,097	778,660	-5,00	-3,600	778,835	-2,00	778,919	778,907	779,522	0,603	4,200	778,991	2,00	5,096	779,009	2,00	5,700	779,531	5,00	6,237	779,278	-66,67
28919+0,000	-8,732	778,275	-66,67	-7,600	779,030	5,00	-7,097	778,440	-5,00	-3,600	778,615	-2,00	778,660	778,687	779,302	0,642	4,200	778,771	2,00	5,096	778,789	2,00	5,700	779,311	5,00	6,389	778,957	-66,67
28920+0,000	-8,756	778,039	-66,67	-7,600	778,810	5,00	-7,097	778,220	-5,00	-3,600	778,395	-2,00	778,471	778,467	779,082	0,611	4,200	778,551	2,00	5,096	778,569	2,00	5,700	779,091	5,00	6,314	778,787	-66,67
28921+0,000	-11,154	776,221	-66,67	-7,600	778,590	5,00	-7,097	778,000	-5,00	-3,600	778,175	-2,00	777,947	778,247	778,862	0,915	4,200	778,331	2,00	5,096	778,349	2,00	5,700	778,871	5,00	6,258	778,604	-66,67
28922+0,000										-6,100	777,905	-2,00	777,129	778,027	778,642	1,513	5,000	778,127	2,00				6,500	778,367	25,00			

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28923+0,000	-12,460	774,917	-66,67	-7,600	778,157	5,00	-7,097	777,567	-5,00	-3,600	777,742	-2,00	776,941	777,814	778,429	1,488	4,200	777,898	2,00	5,096	777,916	2,00	5,700	778,438	5,00	6,268	778,164	-66,67
28924+0,000	-13,161	774,247	-66,67	-7,600	777,954	5,00	-7,097	777,364	-5,00	-3,600	777,539	-2,00	776,165	777,611	778,226	2,061	4,200	777,695	2,00	5,096	777,713	2,00	5,700	778,235	5,00	6,504	777,804	-66,67
28925+0,000										-3,600	777,347	-2,00	774,863	777,419	778,034	3,171	4,200	777,503	2,00	5,096	777,521	2,00	5,700	778,043	5,00	6,868	777,370	-66,67
28926+0,000										-3,600	777,159	-2,00	774,686	777,231	777,846	3,160	4,200	777,315	2,00	5,096	777,333	2,00	5,700	777,855	5,00	7,047	777,062	-66,67
28927+0,000	-14,369	773,660	-66,67	-8,700	777,439	5,00	-8,197	776,849	-5,00	-7,200	776,899	-2,00	775,050	777,043	777,658	2,608	4,501	777,133	2,00	5,397	777,151	2,00	6,001	777,673	5,00	7,162	777,005	-66,67
28928+0,000	-13,514	773,709	-66,67	-8,186	777,261	5,00	-7,683	776,671	-5,00	-6,686	776,721	-2,00	774,749	776,855	777,470	2,721	5,599	776,967	2,00	6,494	776,985	2,00	7,099	777,507	5,00	7,854	777,108	-66,67
28929+0,000	-12,076	773,814	-66,67	-7,157	777,094	5,00	-6,655	776,504	-5,00	-5,657	776,554	-2,00	774,873	776,667	777,282	2,409	7,504	776,817	2,00	8,400	776,835	2,00	9,004	777,357	5,00	9,505	777,128	-66,67
28930+0,000	-11,722	774,105	-66,67	-7,600	776,853	4,98	-7,097	776,263	-5,00	-4,629	776,386	-2,00	774,689	776,479	777,094	2,405	10,227	776,683	2,00	11,122	776,701	2,00	11,727	777,223	5,00	12,087	777,089	-66,67
28931+0,000	-10,632	774,612	-66,67	-7,600	776,634	5,00	-7,097	776,044	-5,00	-3,600	776,219	-2,00	775,766	776,291	776,906	1,140	4,200	776,375	2,00	5,096	776,393	2,00	5,700	776,915	5,00	6,630	776,400	-66,67
28932+0,000	-9,780	774,993	-66,67	-7,600	776,446	5,00	-7,097	775,856	-5,00	-3,600	776,031	-2,00	775,175	776,103	776,718	1,543	4,200	776,187	2,00	5,096	776,205	2,00	5,700	776,727	5,00	6,792	776,104	-66,67
28933+0,000	-9,197	775,195	-66,67	-7,600	776,260	5,00	-7,097	775,670	-5,00	-3,600	775,845	-2,00	775,582	775,917	776,532	0,950	4,200	776,001	2,00	5,096	776,018	2,00	5,700	776,541	5,00	6,617	776,034	-66,67
28933+7,664	-9,046	775,225	-66,67	-7,600	776,189	5,00	-7,097	775,599	-5,00	-3,600	775,774	-2,00		775,846	776,461	776,461	4,200	775,930	2,00				5,700	776,470	5,00	6,481	776,055	-66,67
28934+0,000	-8,140	775,717	-66,67	-7,600	776,078	5,00	-7,097	775,488	-5,00	-3,600	775,663	-2,00	775,669	775,735	776,350	0,681	4,200	775,819	2,00				5,700	776,359	5,00	6,371	776,016	-66,67
28935+0,000	-8,094	775,570	-66,67	-7,600	775,900	5,00	-7,097	775,310	-5,00	-3,600	775,485	-2,00	775,714	775,557	776,172	0,458	4,200	775,641	2,00				5,700	776,181	5,00	6,202	775,951	-66,67
28936+0,000	-8,214	776,036	100,00	-7,600	775,422	12,50	-7,097	775,133	-5,00	-3,600	775,307	-2,00	775,882	775,379	775,994	0,112	4,644	775,472	2,00				6,144	776,012	5,00	6,771	775,699	-66,67
28937+0,000	-8,335	775,980	100,00	-7,600	775,245	12,50	-7,097	774,955	-5,00	-3,600	775,130	-2,00	775,750	775,202	775,817	0,067	10,200	775,406	2,00				11,700	775,946	5,00	11,910	775,911	-66,67
28938+0,000	-8,478	775,946	100,00	-7,600	775,068	12,50	-7,097	774,778	-5,00	-3,600	774,953	-2,00	775,904	775,025	775,640	-0,264	10,200	775,229	2,00				11,700	775,769	5,00	11,894	775,745	-66,67
28938+18,292	-8,478	775,784	100,00	-7,600	774,906	12,50	-7,097	774,616	-5,00	-3,600	774,791	-2,00		774,863	775,478	775,478	10,200	775,067	2,00				11,700	775,607	5,00	11,894	775,583	-66,67
28939+0,000	-8,568	775,859	100,00	-7,600	774,891	12,50	-7,097	774,601	-5,00	-3,600	774,776	-2,00	775,714	774,848	775,463	-0,251	7,800	775,004	2,00				9,300	775,544	5,00	9,562	775,475	-66,67
28940+0,000	-8,448	775,575	100,00	-7,600	774,727	12,50	-7,097	774,437	-5,00	-3,600	774,612	-2,00	775,661	774,684	775,299	-0,362	7,800	774,840	2,00				9,300	775,380	5,00	9,532	775,330	-66,67
28940+19,958	-8,448	775,431	100,00	-7,600	774,583	12,50	-7,097	774,293	-5,00	-3,600	774,468	-2,00		774,540	775,155	775,155	7,800	774,696	2,00				9,300	775,236	5,00	9,532	775,186	-66,67
28941+0,000	-8,527	775,509	100,00	-7,600	774,582	12,50	-7,097	774,293	-5,00	-3,600	774,467	-2,00	775,275	774,539	775,154	-0,121	6,902	774,677	2,00				8,402	775,217	5,00	8,653	775,155	-66,67
28942+0,000	-8,235	775,089	100,00	-7,600	774,454	12,50	-7,097	774,165	-5,00	-3,600	774,339	-2,00	774,868	774,411	775,026	0,158	5,868	774,529	2,00				7,368	775,069	5,00	7,602	775,018	-66,67
28942+7,736	-8,291	775,096	100,00	-7,600	774,405	12,50	-7,097	774,116	-5,00	-3,600	774,290	-2,00		774,362	774,977	774,977	5,468	774,472	2,00				6,968	775,012	5,00	7,194	774,966	-66,67
28942+10,000	-8,244	775,033	100,00	-7,600	774,389	12,50	-7,097	774,099	-5,00	-3,600	774,274	-2,06		774,348	774,963	774,963	5,351	774,458	2,06				6,851	774,998	5,00	7,074	774,956	-66,67
28943+0,000	-7,727	774,531	-66,67	-7,600	774,615	5,00	-7,097	774,026	-5,00	-3,600	774,200	-2,34	774,535	774,285	774,900	0,365	4,841	774,398	2,34				6,341	774,938	5,00	6,581	774,888	-66,67
28943+10,000	-8,617	773,864	-66,67	-7,600	774,542	5,00	-7,097	773,952	-5,00	-3,600	774,127	-2,62		774,221	774,836	774,836	4,356	774,336	2,62				5,856	774,876	5,00	6,121	774,813	-66,67
28943+15,514	-8,617	773,829	-66,67	-7,600	774,507	5,00	-7,097	773,917	-5,00	-3,600	774,092	-2,62		774,186	774,801	774,801	4,356	774,301	2,62				5,856	774,841	5,00	6,121	774,778	-66,67
28944+0,000	-8,478	773,883	-66,67	-7,600	774,469	5,00	-7,097	773,879	-5,00	-3,600	774,054	-2,90	774,339	774,158	774,773	0,434	4,200	774,280	2,90				5,700	774,820	5,00	5,990	774,746	-66,67
28944+10,000	-8,599	773,729	-66,67	-7,600	774,395	5,00	-7,097	773,805	-5,00	-3,600	773,980	-3,18		774,095	774,710	774,710	4,200	774,228	3,18				5,700	774,768	5,00	5,996	774,694	-66,67
28944+17,736	-8,676	773,621	-66,67	-7,600	774,338	5,00	-7,097	773,749	-5,00	-3,600	773,923	-3,40		774,046	774,661	774,661	4,200	774,189	3,40				5,700	774,729	5,00	5,992	774,660	-66,67
28945+0,000	-8,718	773,578	-66,67	-7,600	774,324	5,00	-7,097	773,734	-5,00	-3,600	773,909	-3,40	774,140	774,031	774,646	0,506	4,200	774,174	3,40				5,700	774,714	5,00	5,988	774,648	-66,67
28945+10,000	-9,597	772,930	-66,67	-7,600	774,261	5,00	-7,097	773,671	-5,00	-3,600	773,846	-3,40		773,969	774,584	774,584	4,200	774,111	3,40				5,700	774,651	5,00	5,944	774,615	-66,67
28946+0,000	-10,073	772,561	-66,67	-7,600	774,210	5,00	-7,097	773,620	-5,00	-3,600	773,795	-3,40	774,014	773,917	774,532	0,518	4,200	774,060	3,40				5,700	774,600	5,00	5,913	774,584	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28946+10,000	-10,671	772,125	-66,67	-7,600	774,173	5,00	-7,097	773,583	-5,00	-3,600	773,758	-3,40		773,880	774,495	774,495	4,200	774,023	3,40				5,700	774,563	5,00	5,914	774,547	-66,67
28947+0,000	-11,140	771,792	-66,67	-7,600	774,152	5,00	-7,097	773,562	-5,00	-3,600	773,737	-3,40	774,088	773,859	774,474	0,386	4,200	774,002	3,40				5,700	774,542	5,00	5,911	774,527	-66,67
28947+10,000	-11,617	771,468	-66,67	-7,600	774,146	5,00	-7,097	773,556	-5,00	-3,600	773,731	-3,40		773,853	774,468	774,468	4,200	773,996	3,40				5,700	774,536	5,00	5,892	774,534	-66,67
28948+0,000	-11,674	771,439	-66,67	-7,600	774,155	5,00	-7,097	773,565	-5,00	-3,600	773,740	-3,40	774,121	773,863	774,478	0,357	4,200	774,006	3,40				5,700	774,546	5,00	5,903	774,536	-66,67
28948+10,000	-11,815	771,370	-66,67	-7,600	774,180	5,00	-7,097	773,590	-5,00	-3,600	773,765	-3,40		773,887	774,502	774,502	4,200	774,030	3,40				5,700	774,570	5,00	5,917	774,552	-66,67
28949+0,000	-11,580	771,567	-66,67	-7,600	774,220	5,00	-7,097	773,630	-5,00	-3,600	773,805	-3,40	774,307	773,927	774,542	0,235	4,200	774,070	3,40				5,700	774,610	5,00	5,900	774,603	-66,67
28949+10,000	-11,757	771,504	-66,67	-7,600	774,275	5,00	-7,097	773,685	-5,00	-3,600	773,860	-3,40		773,982	774,597	774,597	4,200	774,125	3,40				5,700	774,665	5,00	5,883	774,669	-66,67
28950+0,000	-11,547	771,714	-66,67	-7,600	774,345	5,00	-7,097	773,755	-5,00	-3,600	773,930	-3,40	774,732	774,053	774,668	-0,064	4,200	774,195	3,40				5,700	774,735	5,00	5,847	774,764	-66,67
28950+10,000	-11,822	771,616	-66,67	-7,600	774,431	5,00	-7,097	773,841	-5,00	-3,600	774,016	-3,40		774,138	774,753	774,753	4,200	774,281	3,40				5,700	774,821	5,00	6,172	774,993	100,00
28951+0,000	-11,048	772,233	-66,67	-7,600	774,532	5,00	-7,097	773,942	-5,00	-3,600	774,117	-3,40	774,758	774,239	774,854	0,096	4,200	774,382	3,40				5,700	774,922	5,00	5,810	774,975	-66,67
28951+10,000	-11,568	772,002	-66,67	-7,600	774,648	5,00	-7,097	774,058	-5,00	-3,600	774,233	-3,40		774,355	774,970	774,970	4,200	774,498	3,40				5,700	775,038	5,00	5,804	775,095	-66,67
28952+0,000	-11,424	772,230	-66,67	-7,600	774,779	5,00	-7,097	774,189	-5,00	-3,600	774,364	-3,40	775,029	774,487	775,102	0,073	4,200	774,630	3,40				5,700	775,170	5,00	5,799	775,230	-66,67
28952+10,000	-11,085	772,603	-66,67	-7,600	774,926	5,00	-7,097	774,336	-5,00	-3,600	774,511	-3,40		774,633	775,248	775,248	4,200	774,776	3,40				5,700	775,316	5,00	5,795	775,379	-66,67
28952+19,542	-10,850	772,913	-66,67	-7,600	775,080	5,00	-7,097	774,490	-5,00	-3,600	774,665	-3,40		774,788	775,403	775,403	4,200	774,930	3,40				5,700	775,470	5,00	5,779	775,544	-66,67
28953+0,000	-10,840	772,928	-66,67	-7,600	775,088	5,00	-7,097	774,498	-5,00	-3,600	774,673	-3,40	775,328	774,795	775,410	0,082	4,200	774,938	3,40				5,700	775,478	5,00	5,779	775,552	-66,67
28953+10,000	-10,522	773,317	-66,67	-7,600	775,265	5,00	-7,097	774,675	-5,00	-3,600	774,850	-3,40		774,973	775,588	775,588	4,200	775,115	3,40				5,700	775,655	5,00	5,757	775,743	-66,67
28954+0,000	-9,633	774,102	-66,67	-7,600	775,458	5,00	-7,097	774,868	-5,00	-3,600	775,043	-3,40	775,747	775,165	775,780	0,033	4,200	775,308	3,40				5,700	775,848	5,00	5,739	775,948	-66,67
28954+10,000	-8,608	774,994	-66,67	-7,600	775,665	5,00	-7,097	775,075	-5,00	-3,600	775,250	-3,40		775,373	775,988	775,988	4,200	775,515	3,40				5,700	776,055	5,00	5,730	776,161	-66,67
28955+0,000	-8,236	775,464	-66,67	-7,600	775,888	5,00	-7,097	775,298	-5,00	-3,600	775,473	-3,40	776,239	775,596	776,211	-0,028	4,200	775,738	3,40				5,700	776,278	5,00	5,708	776,399	-66,67
28955+10,000	-8,295	775,663	-66,67	-7,600	776,126	5,00	-7,097	775,537	-5,00	-3,600	775,711	-3,40		775,834	776,449	776,449	4,200	775,977	3,40				5,700	776,517	5,00	5,746	776,612	-66,67
28956+0,000	-8,288	775,917	-66,67	-7,600	776,376	5,00	-7,097	775,786	-5,00	-3,600	775,961	-3,40	776,760	776,083	776,698	-0,062	4,200	776,226	3,40				5,700	776,766	5,00	5,779	776,839	-66,67
28956+10,000	-7,929	776,406	-66,67	-7,600	776,625	5,00	-7,097	776,035	-5,00	-3,600	776,210	-3,40		776,332	776,947	776,947	4,200	776,475	3,40				5,700	777,015	5,00	5,785	777,084	-66,67
28957+0,000	-7,801	776,741	-66,67	-7,600	776,874	5,00	-7,097	776,285	-5,00	-3,600	776,459	-3,40	777,261	776,582	777,197	-0,064	4,200	776,725	3,40				5,700	777,265	5,00	5,767	777,346	-66,67
28957+10,000	-7,863	776,948	-66,67	-7,600	777,124	5,00	-7,097	776,534	-5,00	-3,600	776,709	-3,40		776,831	777,446	777,446	4,200	776,974	3,40				5,700	777,514	5,00	5,817	777,562	-66,67
28958+0,000	-7,792	777,246	-66,67	-7,600	777,373	5,00	-7,097	776,784	-5,00	-3,600	776,958	-3,40	777,802	777,081	777,696	-0,106	4,200	777,224	3,40				5,700	777,764	5,00	5,812	777,815	-66,67
28958+10,000	-7,650	777,590	-66,67	-7,600	777,623	5,00	-7,097	777,033	-5,00	-3,600	777,208	-3,40		777,330	777,945	777,945	4,200	777,473	3,40				5,700	778,013	5,00	5,891	778,011	-66,67
28959+0,000	-7,722	777,791	-66,67	-7,600	777,872	5,00	-7,097	777,283	-5,00	-3,600	777,457	-3,40	778,309	777,580	778,195	-0,114	4,200	777,723	3,40				5,700	778,263	5,00	5,870	778,275	-66,67
28959+10,000														777,829	778,444	778,444							6,320	778,233	25,00			
28960+0,000													778,823	778,079	778,694	-0,129							6,320	778,483	25,00			
28960+10,000														778,328	778,943	778,943							6,320	778,732	25,00			
28961+0,000													779,317	778,578	779,193	-0,124							6,320	778,982	25,00			
28961+1,349														778,611	779,226	779,226							6,320	779,015	25,00			
28961+10,000														778,827	779,442	779,442							6,320	779,219	25,00			
28962+0,000													779,831	779,077	779,692	-0,139							6,320	779,455	25,00			

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28962+3,571														779,166	779,781	779,781							6,320	779,544	25,00			
28962+10,000														779,326	779,941	779,941							6,320	779,691	25,00			
28963+0,000													780,361	779,576	780,191	-0,170							6,320	779,927	25,00			
28963+10,000														779,825	780,440	780,440							6,320	780,163	25,00			
28963+11,349														779,859	780,474	780,474							6,320	780,195	25,00			
28964+0,000													780,836	780,075	780,690	-0,146							6,320	780,411	25,00			
28964+19,126														780,549	781,164	781,164							6,320	780,886	25,00			
28965+0,000													781,309	780,571	781,186	-0,123							6,320	780,907	25,00			
28966+0,000													781,810	781,057	781,672	-0,138							6,320	781,393	25,00			
28967+0,000													782,287	781,533	782,148	-0,139							6,320	781,869	25,00			
28967+0,793														781,551	782,166	782,166							6,320	781,888	25,00			
28968+0,000													782,746	782,005	782,620	-0,126							6,320	782,341	25,00			
28969+0,000													783,214	782,477	783,092	-0,122							6,320	782,814	25,00			
28970+0,000													783,694	782,950	783,565	-0,129							6,320	783,286	25,00			
28971+0,000													784,190	783,422	784,037	-0,153							6,320	783,758	25,00			
28972+0,000													784,669	783,894	784,509	-0,160							6,320	784,231	25,00			
28973+0,000													785,175	784,367	784,982	-0,193							6,320	784,703	25,00			
29014+10,000	-9,148	787,351	-66,67	-8,873	787,534	2,84	-8,098	786,962	-4,34	-7,373	786,994	-18,30		787,020	787,635	787,635							6,320	787,195	25,00			

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28737+7,664													797,904	797,283	797,898	-0,006							1,500	-0,375	25,00			
28747+0,000													794,556	793,941	794,556								1,500	-0,375	25,00			
28748+0,000										-3,600	794,053	-2,00	794,148	793,510	794,125	-0,023	4,505	794,215	2,00		794,125	2,00	6,005	793,840	25,00			
28749+0,000	-5,997	793,446	-66,670	-5,809	793,571	5,02	-4,309	793,646	-5,00	-3,600	793,682	-2,00	793,683	793,139	793,754	0,071	4,505	793,844	2,00		793,754	14,56	6,005	793,469	25,00			
28750+0,000	-7,988	792,935	-66,670	-7,600	793,194	5,00	-6,100	793,269	-5,00	-3,600	793,394	-2,00	793,184	792,851	793,466	0,282	4,505	793,556	2,00		793,466	12,14	6,005	793,181	25,00			
28751+0,000	-8,214	792,579	-66,670	-7,600	792,989	5,00	-6,100	793,064	-5,00	-3,600	793,189	-2,00	792,786	792,646	793,261	0,475	4,505	793,351	2,00		793,261	12,14	6,005	792,976	25,00			
28752+0,000	-8,969	791,952	-66,670	-7,600	792,865	5,00	-6,100	792,940	-5,00	-3,600	793,065	-2,00	792,422	792,522	793,137	0,715	4,505	793,227	2,00		793,137	12,14	6,005	792,852	25,00			
28753+0,000	-9,322	791,617	-66,670	-7,600	792,765	5,00	-6,100	792,840	-5,00	-3,600	792,965	-2,00	792,088	792,422	793,037	0,949	4,505	793,127	2,00		793,037	12,14	6,005	792,752	25,00			
28754+0,000	-10,139	790,972	-66,670	-7,600	792,665	5,00	-6,100	792,740	-5,00	-3,600	792,865	-2,00	791,845	792,322	792,937	1,092	4,505	793,027	2,00		792,937	12,14	6,005	792,652	25,00			
28755+0,000	-10,890	790,372	-66,670	-7,600	792,565	5,00	-6,100	792,640	-5,00	-3,600	792,765	-2,00	791,629	792,222	792,837	1,208	4,505	792,927	2,00		792,837	12,14	6,005	792,552	25,00			
28756+0,000	-12,360	789,291	-66,670	-7,600	792,465	5,00	-6,100	792,540	-5,00	-3,600	792,665	-2,00	791,446	792,122	792,737	1,291	4,505	792,827	2,00		792,737	12,14	6,005	792,452	25,00			
28757+0,000	-11,828	789,546	-66,670	-7,600	792,365	5,00	-6,100	792,440	-5,00	-3,600	792,565	-2,00	791,292	792,022	792,637	1,345	4,505	792,727	2,00		792,637	12,14	6,005	792,352	25,00			
28758+0,000	-11,220	789,852	-66,670	-7,600	792,265	5,00	-6,100	792,340	-5,00	-3,600	792,465	-2,00	791,063	791,922	792,537	1,474	4,505	792,627	2,00		792,537	12,14	6,005	792,252	25,00			
28759+0,000	-10,442	790,270	-66,670	-7,600	792,165	5,00	-6,100	792,240	-5,00	-3,600	792,365	-2,00	790,925	791,822	792,437	1,512	4,505	792,527	2,00		792,437	12,14	6,005	792,152	25,00			
28760+0,000	-9,663	790,689	-66,670	-7,600	792,065	5,00	-6,100	792,140	-5,00	-3,600	792,265	-2,00	790,913	791,722	792,337	1,424	4,505	792,427	2,00		792,337	12,14	6,005	792,052	25,00			
28761+0,000	-9,261	790,857	-66,670	-7,600	791,965	5,00	-6,100	792,040	-5,00	-3,600	792,165	-2,00	790,983	791,622	792,237	1,254	4,505	792,327	2,00		792,237	12,14	6,005	791,952	25,00			
28762+0,000	-8,839	791,039	-66,670	-7,600	791,865	5,00	-6,100	791,940	-5,00	-3,600	792,065	-2,00	791,130	791,522	792,137	1,007	4,505	792,227	2,00		792,137	12,14	6,005	791,852	25,00			
28763+0,000	-9,820	790,293	-66,670	-7,600	791,773	5,00	-6,100	791,848	-5,00	-3,600	791,973	-2,00	791,348	791,430	792,045	0,697	4,505	792,135	2,00		792,045	12,14	6,005	791,760	25,00			
28764+0,000	-8,221	791,336	-66,670	-7,600	791,750	5,00	-6,100	791,825	-5,00	-3,600	791,950	-2,00	791,557	791,407	792,022	0,465	4,505	792,112	2,00		792,022	12,14	6,005	791,737	25,00			
28765+0,000	-8,015	791,532	-66,670	-7,600	791,808	5,00	-6,100	791,883	-5,00	-3,600	792,008	-2,00	791,817	791,465	792,080	0,263	4,505	792,170	2,00		792,080	12,14	6,005	791,795	25,00			
28766+0,000	-7,965	792,013	100,000	-7,600	791,648	12,50	-6,100	792,023	-5,00	-3,600	792,148	-2,00	792,132	791,605	792,220	0,088	4,505	792,310	2,00		792,220	12,14	6,005	791,935	25,00			
28767+0,000	-8,156	792,426	100,000	-7,600	791,870	12,50	-6,100	792,245	-5,00	-3,600	792,370	-2,00	792,424	791,827	792,442	0,018	4,505	792,532	2,00		792,442	12,14	6,005	792,157	25,00			
28768+0,000	-8,156	792,721	100,000	-7,600	792,165	12,50	-6,100	792,540	-5,00	-3,600	792,665	-2,00	792,721	792,122	792,737	0,016	4,505	792,827	2,00		792,737	12,14	6,005	792,452	25,00			
28769+0,000	-8,156	793,029	100,000	-7,600	792,473	12,50	-6,100	792,848	-5,00	-3,600	792,973	-2,00	793,039	792,430	793,045	0,006	4,505	793,135	2,00		793,045	12,14	6,005	792,760	25,00			
28770+0,000	-8,156	793,337	100,000	-7,600	792,781	12,50	-6,100	793,156	-5,00	-3,600	793,281	-2,00	793,343	792,738	793,353	0,010	4,505	793,444	2,00		793,353	12,14	6,005	793,069	25,00			
28771+0,000	-8,156	793,646	100,000	-7,600	793,090	12,50	-6,100	793,465	-5,00	-3,600	793,590	-2,00	793,731	793,047	793,662	-0,069	4,505	793,752	2,00		793,662	12,14	6,005	793,377	25,00			
28772+0,000	-8,156	793,954	100,000	-7,600	793,398	12,50	-6,100	793,773	-5,00	-3,600	793,898	-2,00	793,953	793,355	793,970	0,017	4,505	794,060	2,00		793,970	12,14	6,005	793,685	25,00			
28773+0,000	-8,156	794,259	100,000	-7,600	793,703	12,50	-6,100	794,078	-5,00	-3,600	794,203	-2,00	794,222	793,660	794,275	0,053	4,505	794,365	2,00		794,275	12,14	6,005	793,990	25,00			
28774+0,000	-8,156	794,502	100,000	-7,600	793,946	12,50	-6,100	794,321	-5,00	-3,600	794,446	-2,00	794,457	793,903	794,518	0,061	4,505	794,608	2,00		794,518	12,14	6,005	794,233	25,00			
28775+0,000	-8,156	794,658	100,000	-7,600	794,102	12,50	-6,100	794,477	-5,00	-3,600	794,602	-2,00	794,699	794,059	794,674	-0,025	4,505	794,764	2,00		794,674	12,14	6,005	794,389	25,00			
28776+0,000	-8,156	794,726	100,000	-7,600	794,170	12,50	-6,100	794,545	-5,00	-3,600	794,670	-2,00	794,753	794,127	794,742	-0,011	4,505	794,832	2,00		794,742	12,14	6,005	794,457	25,00			
28777+0,000	-8,156	794,708	100,000	-7,600	794,152	12,50	-6,100	794,527	-5,00	-3,600	794,652	-2,00	794,752	794,109	794,724	-0,028	4,505	794,814	2,00		794,724	12,14	6,005	794,439	25,00			
28778+0,000	-8,156	794,602	100,000	-7,600	794,046	12,50	-6,100	794,421	-5,00	-3,600	794,546	-2,00	794,670	794,003	794,618	-0,052	4,505	794,708	2,00		794,618	12,14	6,005	794,333	25,00			
28779+0,000	-8,156	794,409	100,000	-7,600	793,853	12,50	-6,100	794,228	-5,00	-3,600	794,353	-2,00	794,470	793,810	794,425	-0,045	4,505	794,515	2,00		794,425	12,14	6,005	794,140	25,00			
28780+0,000	-8,156	794,154	100,000	-7,600	793,598	12,50	-6,100	793,973	-5,00	-3,600	794,098	-2,00	794,266	793,555	794,170	-0,096	4,505	794,260	2,00		794,170	12,14	6,005	793,885	25,00			

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28781+0,000	-8,156	793,896	100,000	-7,600	793,340	12,50	-6,100	793,715	-5,00	-3,600	793,840	-2,00	793,989	793,297	793,912	-0,077	4,505	794,002	2,00		793,912	12,14	6,005	793,627	25,00			
28782+0,000	-8,156	793,638	100,000	-7,600	793,082	12,50	-6,100	793,457	-5,00	-3,600	793,582	-2,00	793,717	793,039	793,654	-0,063	4,505	793,744	2,00		793,654	12,14	6,005	793,369	25,00			
28783+0,000	-8,156	793,379	100,000	-7,600	792,823	12,50	-6,100	793,198	-5,00	-3,600	793,323	-2,00	793,406	792,780	793,395	-0,011	4,505	793,486	2,00		793,395	12,14	6,005	793,111	25,00			
28784+0,000	-8,156	793,121	100,000	-7,600	792,565	12,50	-6,100	792,940	-5,00	-3,600	793,065	-2,00	793,040	792,522	793,137	0,097	4,505	793,227	2,00		793,137	12,14	6,005	792,852	25,00			
28785+0,000	-8,156	792,863	100,000	-7,600	792,307	12,50	-6,100	792,682	-5,00	-3,600	792,807	-2,00	782,739	792,264	792,879	10,140	4,505	792,969	2,00		792,879	12,14	6,005	792,594	25,00			
28786+0,000	-8,156	792,605	100,000	-7,600	792,049	12,50	-6,100	792,424	-5,00	-3,600	792,549	-2,00	792,443	792,006	792,621	0,178	4,505	792,711	2,00		792,621	12,14	6,005	792,336	25,00			
28787+0,000	-8,156	792,347	100,000	-7,600	791,791	12,50	-6,100	792,166	-5,00	-3,600	792,291	-2,00	792,340	791,748	792,363	0,023	4,505	792,453	2,00		792,363	12,14	6,005	792,078	25,00			
28788+0,000	-8,156	792,089	100,000	-7,600	791,533	12,50	-6,100	791,908	-5,00	-3,600	792,033	-2,00	792,102	791,490	792,105	0,003	4,505	792,195	2,00		792,105	12,14	6,005	791,820	25,00			
28789+0,000	-8,044	791,718	100,000	-7,600	791,275	12,50	-6,100	791,650	-5,00	-3,600	791,775	-2,00	791,877	791,232	791,847	-0,030	4,505	791,937	2,00		791,847	12,14	6,005	791,562	25,00			
28790+0,000	-8,051	791,468	100,000	-7,600	791,017	12,50	-6,100	791,392	-5,00	-3,600	791,517	-2,00	791,674	790,974	791,589	-0,085	4,505	791,679	2,00		791,589	12,14	6,005	791,304	25,00			
28791+0,000	-8,050	790,759	-66,670	-7,600	791,059	5,00	-6,100	791,134	-5,00	-3,600	791,259	-2,00	791,453	790,716	791,331	-0,122	4,505	791,421	2,00		791,331	12,14	6,005	791,046	25,00			
28792+0,000	-7,950	790,850	100,000	-7,600	790,501	12,50	-6,100	790,876	-5,00	-3,600	791,001	-2,00	791,222	790,458	791,073	-0,149	4,505	791,163	2,00		791,073	12,14	6,005	790,788	25,00			
28793+0,000	-7,955	790,597	100,000	-7,600	790,242	12,50	-6,100	790,617	-5,00	-3,600	790,742	-2,00	790,900	790,199	790,814	-0,086	4,505	790,905	2,00		790,814	12,14	6,005	790,530	25,00			
28794+0,000	-8,266	789,841	-66,670	-7,600	790,284	5,00	-6,100	790,359	-5,00	-3,600	790,484	-2,00	790,612	789,941	790,556	-0,056	4,505	790,646	2,00		790,556	12,14	6,005	790,271	25,00			
28795+0,000	-8,374	789,510	-66,670	-7,600	790,026	5,00	-6,100	790,101	-5,00	-3,600	790,226	-2,00	790,246	789,683	790,298	0,052	4,505	790,388	2,00		790,298	12,14	6,005	790,013	25,00			
28796+0,000	-8,193	789,373	-66,670	-7,600	789,768	5,00	-6,100	789,843	-5,00	-3,600	789,968	-2,00	789,967	789,425	790,040	0,073	4,505	790,130	2,00		790,040	12,14	6,005	789,755	25,00			
28797+0,000	-8,401	788,976	-66,670	-7,600	789,510	5,00	-6,100	789,585	-5,00	-3,600	789,710	-2,00	789,631	789,167	789,782	0,151	4,505	789,872	2,00		789,782	12,14	6,005	789,497	25,00			
28798+0,000	-7,745	789,155	-66,670	-7,600	789,252	5,00	-6,100	789,327	-5,00	-3,600	789,452	-2,00	789,420	788,909	789,524	0,104	4,505	789,614	2,00		789,524	12,14	6,005	789,239	25,00			
28799+0,000	-8,157	788,622	-66,670	-7,600	788,994	5,00	-6,100	789,069	-5,00	-3,600	789,194	-2,00	789,230	788,651	789,266	0,036	4,505	789,356	2,00		789,266	12,14	6,005	788,981	25,00			
28800+0,000	-8,043	788,878	100,000	-7,600	788,436	12,50	-6,100	788,811	-5,00	-3,600	788,936	-2,00	789,002	788,393	789,008	0,006	4,505	789,098	2,00		789,008	12,14	6,005	788,723	25,00			
28801+0,000	-8,017	788,595	100,000	-7,600	788,178	12,50	-6,100	788,553	-5,00	-3,600	788,678	-2,00	788,755	788,135	788,750	-0,005	4,505	788,840	2,00		788,750	12,14	6,005	788,465	25,00			
28802+0,000	-7,993	788,313	100,000	-7,600	787,920	12,50	-6,100	788,295	-5,00	-3,600	788,420	-2,00	788,498	787,877	788,492	-0,006	4,505	788,582	2,00		788,492	12,14	6,005	788,207	25,00			
28803+0,000	-7,978	788,039	100,000	-7,600	787,661	12,50	-6,100	788,036	-5,00	-3,600	788,161	-2,00	788,191	787,618	788,233	0,042	4,505	788,324	2,00		788,233	12,14	6,005	787,949	25,00			
28804+0,000	-7,890	787,693	100,000	-7,600	787,403	12,50	-6,100	787,778	-5,00	-3,600	787,903	-2,00	787,952	787,360	787,975	0,023	4,505	788,065	2,00		787,975	12,14	6,005	787,690	25,00			
28805+0,000	-7,998	787,543	100,000	-7,600	787,145	12,50	-6,100	787,520	-5,00	-3,600	787,645	-2,00	787,736	787,102	787,717	-0,019	4,505	787,807	2,00		787,717	12,14	6,005	787,432	25,00			
28806+0,000	-8,010	787,306	100,000	-7,600	786,896	12,50	-6,100	787,271	-5,00	-3,600	787,396	-2,00	787,544	786,853	787,468	-0,076	4,505	787,558	2,00		787,468	12,14	6,005	787,183	25,00			
28806+17,569	-7,859	786,959	100,000	-7,600	786,700	12,50	-6,100	787,075	-5,00	-3,600	787,200	-2,00	787,333	786,657	787,272	-0,061	4,505	787,363	2,00		787,272	12,14	6,005	786,988	25,00			
28807+0,000	-7,906	786,980	100,000	-7,600	786,674	12,50	-6,100	787,049	-5,00	-3,600	787,174	-2,00	787,305	786,631	787,246	-0,059	4,200	787,330	2,00		787,246	12,14	5,700	787,255	5,00	6,197	787,028	-66,67
28807+10,000	-7,890	786,854	100,000	-7,600	786,563	12,50	-6,100	786,938	-5,00	-3,600	787,063	-2,00	787,124	786,520	787,135	0,011	4,200	787,219	2,00		787,135	12,14	5,700	787,144	5,00	6,239	786,890	-66,67
28808+0,000	-7,633	786,731	-66,670	-7,600	786,753	5,00	-6,100	786,828	-5,00	-3,600	786,953	-2,00	786,961	786,410	787,025	0,064	4,200	787,109	2,00		787,025	12,14	5,700	787,034	5,00	6,262	786,764	-66,67
28808+10,000	-7,805	786,506	-66,670	-7,600	786,643	5,00	-6,100	786,718	-5,00	-3,600	786,843	-2,00	786,846	786,300	786,915	0,069	4,200	786,999	2,00		786,915	12,14	5,700	786,924	5,00	6,239	786,670	-66,67
28809+0,000	-7,699	786,466	-66,670	-7,600	786,533	5,00	-6,100	786,608	-5,00	-3,600	786,733	-2,00	786,746	786,190	786,805	0,059	4,200	786,889	2,00		786,805	12,14	5,700	786,814	5,00	6,186	786,594	-66,67
28809+10,000	-8,185	786,032	-66,670	-7,600	786,422	5,00	-6,100	786,497	-5,00	-3,600	786,622	-2,00	786,665	786,079	786,694	0,029	4,200	786,778	2,00		786,694	12,14	5,700	786,703	5,00	6,120	786,529	-66,67
28810+0,000	-7,921	786,098	-66,670	-7,600	786,312	5,00	-6,100	786,387	-5,00	-3,600	786,512	-2,00	786,602	785,969	786,584	-0,018	4,200	786,668	2,00		786,584	12,14	5,700	786,593	5,00	6,096	786,434	-66,67
28810+10,000	-8,153	785,833	-66,670	-7,600	786,202	5,00	-6,100	786,277	-5,00	-3,600	786,402	-2,00	786,487	785,859	786,474	-0,013	4,200	786,558	2,00		786,474	12,14	5,700	786,483	5,00	6,034	786,365	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28811+0,000	-8,438	785,533	-66,670	-7,600	786,091	5,00	-6,100	786,166	-5,00	-3,600	786,291	-2,00	786,385	785,748	786,363	-0,022	4,200	786,447	2,00		786,363	12,14	5,700	786,372	5,00	5,928	786,326	-66,67
28811+10,000	-8,093	785,652	-66,670	-7,600	785,981	5,00	-6,100	786,056	-5,00	-3,600	786,181	-2,00	786,282	785,638	786,253	-0,029	4,200	786,337	2,00		786,253	12,14	5,700	786,262	5,00	5,819	786,288	-66,67
28812+0,000	-8,426	785,320	-66,670	-7,600	785,871	5,00	-6,100	785,946	-5,00	-3,600	786,071	-2,00	786,201	785,528	786,143	-0,058	4,200	786,227	2,00		786,143	12,14	5,700	786,152	5,00	6,101	786,252	100,00
28812+10,000	-8,464	785,182	-66,670	-7,600	785,758	5,00	-6,100	785,833	-5,00	-3,600	785,958	-2,00	786,104	785,415	786,030	-0,074	4,200	786,114	2,00		786,030	12,14	5,700	786,039	5,00	6,166	786,205	100,00
28813+0,000	-8,640	784,948	-66,670	-7,600	785,641	5,00	-6,100	785,716	-5,00	-3,600	785,841	-2,00	785,997	785,298	785,913	-0,084	4,200	785,997	2,00		785,913	12,14	5,700	785,922	5,00	6,182	786,104	100,00
28813+10,000	-8,717	784,776	-66,670	-7,600	785,521	5,00	-6,100	785,596	-5,00	-3,600	785,721	-2,00	785,775	785,178	785,793	0,018	4,200	785,877	2,00		785,793	12,14	5,700	785,802	5,00	6,179	785,981	100,00
28814+0,000	-8,842	784,569	-66,670	-7,600	785,397	5,00	-6,100	785,472	-5,00	-3,600	785,597	-2,00	785,569	785,054	785,669	0,100	4,200	785,753	2,00		785,669	12,14	5,700	785,678	5,00	6,148	785,825	100,00
28814+10,000	-8,794	784,473	-66,670	-7,600	785,269	5,00	-6,100	785,344	-5,00	-3,600	785,469	-2,00	785,497	784,926	785,541	0,044	4,200	785,625	2,00		785,541	12,14	5,700	785,550	5,00	6,169	785,719	100,00
28815+0,000	-8,695	784,408	-66,670	-7,600	785,138	5,00	-6,100	785,213	-5,00	-3,600	785,338	-2,00	785,340	784,795	785,410	0,070	4,200	785,494	2,00		785,410	12,14	5,700	785,419	5,00	6,197	785,616	100,00
28815+10,000	-7,867	784,215	-66,670	-6,607	785,055	4,99	-5,107	785,130	-5,00	-3,600	785,205	-2,00	785,199	784,662	785,277	0,078	4,200	785,361	2,00		785,277	13,31	5,700	785,286	5,00	6,220	785,507	100,00
28816+0,000										-3,600	785,073	-2,00	785,113	784,530	785,145	0,032	4,200	785,229	2,00		785,145	2,00	5,700	785,154	5,00	6,218	785,372	100,00
28816+10,000										-3,600	784,941	-2,00	784,848	784,398	785,013	0,165	4,200	785,097	2,00		785,013	2,00	5,700	785,022	5,00	6,220	785,242	100,00
28817+0,000										-3,600	784,808	-2,00	784,765	784,265	784,880	0,115	4,200	784,964	2,00		784,880	2,00	5,700	784,889	5,00	6,172	785,061	100,00
28817+10,000	-9,378	784,077	-66,670	-8,700	784,529	5,00				-7,200	784,604	-2,00	784,619	784,133	784,748	0,129	4,200	784,832	2,00		784,748	9,87	5,700	784,757	5,00	6,162	784,919	100,00
28818+0,000	-9,387	783,938	-66,670	-8,700	784,396	5,00				-7,200	784,471	-2,00	784,465	784,000	784,615	0,150	4,200	784,699	2,00		784,615	9,87	5,700	784,624	5,00	6,162	784,786	100,00
28818+10,000	-9,083	783,886	-66,670	-8,510	784,268	5,00				-7,009	784,343	-2,00	784,301	783,868	784,483	0,182	4,200	784,567	2,00		784,483	10,05	5,700	784,492	5,00	6,160	784,652	100,00
28818+10,645	-9,055	783,879	-66,670	-8,484	784,260	5,00				-6,984	784,335	-2,00	784,291	783,859	784,474	0,183	4,200	784,558	2,00		784,474	10,08	5,700	784,483	5,00	6,159	784,643	100,00
28819+0,000	-8,492	783,879	-66,670	-8,095	784,144	5,00				-6,595	784,219	-2,00	784,188	783,736	784,351	0,163	4,200	784,435	2,00		784,351	10,49	5,700	784,360	5,00	6,154	784,514	100,00
28819+10,000	-8,010	783,774	-66,670	-7,641	784,020	5,00				-6,141	784,095	-2,00	784,023	783,603	784,218	0,195	4,200	784,302	2,00		784,218	11,03	5,700	784,227	5,00	5,718	784,320	-66,67
28820+0,000	-7,852	783,707	-66,670	-7,600	783,875	5,02	-6,100	783,950	-5,00	-5,647	783,973	-2,00	783,885	783,471	784,086	0,201	4,200	784,170	2,00		784,086	11,28	5,700	784,095	5,00	5,718	784,188	-66,67
28820+10,000	-7,849	783,561	-66,670	-7,600	783,727	4,98	-6,100	783,802	-5,00	-5,112	783,851	-2,00	783,726	783,338	783,953	0,227	4,200	784,037	2,00		783,953	11,50	5,700	783,962	5,00	6,147	784,110	100,00
28821+0,000	-7,832	783,423	-66,670	-7,600	783,577	5,00	-6,100	783,652	-5,00	-4,537	783,730	-2,00	783,566	783,206	783,821	0,255	4,200	783,905	2,00		783,821	11,75	5,700	783,830	5,00	6,144	783,974	100,00
28821+10,000	-7,891	783,232	-66,670	-7,600	783,426	5,00	-6,100	783,501	-5,00	-3,923	783,610	-2,00	783,394	783,074	783,689	0,295	4,200	783,773	2,00		783,689	12,01	5,700	783,698	5,00	5,708	783,797	-66,67
28822+0,000	-8,106	782,946	-66,670	-7,600	783,284	5,00	-6,100	783,359	-5,00	-3,600	783,484	-2,00	783,162	782,941	783,556	0,394	4,200	783,640	2,00		783,556	12,14	5,700	783,565	5,00	5,740	783,644	-66,67
28822+10,000	-8,313	782,668	-66,670	-7,600	783,144	5,00	-6,100	783,219	-5,00	-3,600	783,344	-2,00	783,060	782,801	783,416	0,356	4,200	783,500	2,00		783,416	12,14	5,700	783,425	5,00	5,732	783,508	-66,67
28823+0,000	-8,397	782,461	-66,670	-7,600	782,992	5,00	-6,100	783,067	-5,00	-3,600	783,192	-2,00	782,812	782,649	783,264	0,452	4,200	783,348	2,00		783,264	12,14	5,700	783,273	5,00	5,746	783,348	-66,67
28823+10,000	-8,449	782,264	-66,670	-7,600	782,830	5,00	-6,100	782,905	-5,00	-3,600	783,030	-2,00	782,625	782,487	783,102	0,477	4,200	783,186	2,00		783,102	12,14	5,700	783,111	5,00	5,742	783,188	-66,67
28824+0,000	-8,461	782,083	-66,670	-7,600	782,657	5,00	-6,100	782,732	-5,00	-3,600	782,857	-2,00	782,445	782,314	782,929	0,484	4,200	783,013	2,00		782,929	12,14	5,700	782,938	5,00	5,721	783,029	-66,67
28824+10,000	-8,449	781,907	-66,670	-7,600	782,473	5,00	-6,100	782,548	-5,00	-3,600	782,673	-2,00	782,316	782,130	782,745	0,429	4,200	782,829	2,00		782,745	12,14	5,700	782,754	5,00	5,733	782,837	-66,67
28825+0,000	-8,285	781,822	-66,670	-7,600	782,278	5,00	-6,100	782,353	-5,00	-3,600	782,478	-2,00	782,245	781,935	782,550	0,305	4,200	782,634	2,00		782,550	12,14	5,700	782,559	5,00	5,795	782,601	-66,67
28825+10,000	-8,200	781,673	-66,670	-7,600	782,072	5,00	-6,100	782,147	-5,00	-3,600	782,272	-2,00	782,010	781,729	782,344	0,334	4,200	782,428	2,00		782,344	12,14	5,700	782,353	5,00	5,852	782,357	-66,67
28826+0,000	-8,027	781,571	-66,670	-7,600	781,856	5,00	-6,100	781,931	-5,00	-3,600	782,056	-2,00	781,852	781,513	782,128	0,276	4,200	782,212	2,00		782,128	12,14	5,700	782,137	5,00	5,868	782,130	-66,67
28826+10,000	-8,289	781,168	-66,670	-7,600	781,628	5,00	-6,100	781,703	-5,00	-3,600	781,828	-2,00	781,621	781,285	781,900	0,279	4,200	781,984	2,00		781,900	12,14	5,700	781,909	5,00	5,797	781,950	-66,67
28827+0,000	-8,398	780,858	-66,670	-7,600	781,390	5,00	-6,100	781,465	-5,00	-3,600	781,590	-2,00	781,336	781,047	781,662	0,326	4,200	781,746	2,00		781,662	12,14	5,700	781,671	5,00	5,823	781,694	-66,67
28827+10,000	-8,348	780,642	-66,670	-7,600	781,140	5,00	-6,100	781,215	-5,00	-3,600	781,340	-2,00	781,070	780,797	781,412	0,342	4,200	781,496	2,00		781,412	12,14	5,700	781,421	5,00	5,884	781,404	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28828+0,000	-8,330	780,394	-66,670	-7,600	780,880	5,00	-6,100	780,955	-5,00	-3,600	781,080	-2,00	780,708	780,537	781,152	0,444	4,200	781,236	2,00		781,152	12,14	5,700	781,161	5,00	5,895	781,137	-66,67
28828+10,000	-8,327	780,132	-66,670	-7,600	780,617	5,00	-6,100	780,692	-5,00	-3,600	780,817	-2,00	780,417	780,274	780,889	0,472	4,200	780,973	2,00		780,889	12,14	5,700	780,898	5,00	5,897	780,872	-66,67
28829+0,000	-8,320	779,874	-66,670	-7,600	780,354	5,00	-6,100	780,429	-5,00	-3,600	780,554	-2,00	780,100	780,011	780,626	0,526	4,200	780,710	2,00		780,626	12,14	5,700	780,635	5,00	5,910	780,600	-66,67
28829+10,000	-8,323	779,609	-66,670	-7,600	780,091	5,00	-6,100	780,166	-5,00	-3,600	780,291	-2,00	779,843	779,748	780,363	0,520	4,200	780,447	2,00		780,363	12,14	5,700	780,372	5,00	5,936	780,319	-66,67
28830+0,000	-8,327	779,343	-66,670	-7,600	779,828	5,00	-6,100	779,903	-5,00	-3,600	780,028	-2,00	779,582	779,485	780,100	0,518	4,200	780,184	2,00		780,100	12,14	5,700	780,109	5,00	5,960	780,040	-66,67
28830+3,721	-8,261	779,289	-66,670	-7,600	779,730	5,00	-6,100	779,805	-5,00	-3,600	779,930	-2,00	779,514	779,387	780,002	0,488	4,200	780,086	2,00		780,002	12,14	5,700	780,011	5,00	5,970	779,936	-66,67
28831+0,000	-7,962	779,060	-66,670	-7,600	779,301	5,00	-6,100	779,376	-5,00	-3,600	779,501	-2,00	779,109	778,958	779,573	0,464	4,200	779,657	2,00		779,573	12,14	5,700	779,582	5,00	6,045	779,458	-66,67
28832+0,000	-7,999	778,509	-66,670	-7,600	778,775	5,00	-6,100	778,850	-5,00	-3,600	778,975	-2,00	778,870	778,432	779,047	0,177	4,200	779,131	2,00		779,047	12,14	5,700	779,056	5,00	6,072	778,913	-66,67
28833+0,000	-8,698	777,517	-66,670	-7,600	778,249	5,00	-6,100	778,324	-5,00	-3,600	778,449	-2,00	778,034	777,906	778,521	0,487	4,200	778,605	2,00		778,521	12,14	5,700	778,530	5,00	6,022	778,420	-66,67
28834+0,000	-9,340	776,562	-66,670	-7,600	777,722	5,00	-6,100	777,797	-5,00	-3,600	777,922	-2,00	777,048	777,379	777,994	0,946	4,200	778,078	2,00		777,994	12,14	5,700	778,003	5,00	6,183	777,787	-66,67
28835+0,000	-9,668	775,818	-66,670	-7,600	777,197	5,00	-6,100	777,272	-5,00	-3,600	777,397	-2,00	776,528	776,854	777,469	0,941	4,200	777,553	2,00		777,469	12,14	5,700	777,478	5,00	6,335	777,160	-66,67
28836+0,000	-10,437	774,827	-66,670	-7,600	776,718	5,00	-6,100	776,793	-5,00	-3,600	776,918	-2,00	775,380	776,375	776,990	1,610	4,200	777,074	2,00		776,990	12,14	5,700	776,999	5,00	6,354	776,669	-66,67
28837+0,000	-11,312	773,843	-66,670	-7,600	776,318	5,00	-6,100	776,393	-5,00	-3,600	776,518	-2,00	774,562	775,975	776,590	2,028	4,200	776,674	2,00		776,590	12,14	5,700	776,599	5,00	6,396	776,240	-66,67
28838+0,000	-12,238	772,903	-66,670	-7,600	775,995	5,00	-6,100	776,070	-5,00	-3,600	776,195	-2,00	773,614	775,652	776,267	2,653	4,200	776,351	2,00		776,267	12,14	5,700	776,276	5,00	6,398	775,916	-66,67
28839+0,000	-13,017	772,139	-66,670	-7,600	775,750	5,00	-6,100	775,825	-5,00	-3,600	775,950	-2,00	772,026	775,407	776,022	3,996	4,200	776,106	2,00		776,022	12,14	5,700	776,031	5,00	7,165	775,160	-66,67
28840+0,000	-14,743	770,821	-66,670	-7,600	775,583	5,00	-6,100	775,658	-5,00	-3,600	775,783	-2,00	771,111	775,240	775,855	4,744	4,200	775,939	2,00		775,855	12,14	5,700	775,864	5,00	7,356	774,865	-66,67
28841+0,000	-12,443	772,266	-66,670	-7,600	775,494	5,00	-6,100	775,569	-5,00	-3,600	775,694	-2,00	772,072	775,151	775,766	3,694	4,200	775,850	2,00		775,766	12,14	5,700	775,775	5,00	7,589	774,621	-66,67
28842+0,000	-12,961	771,909	-66,670	-7,600	775,483	5,00	-6,100	775,558	-5,00	-3,600	775,683	-2,00	772,774	775,140	775,755	2,981	4,200	775,839	2,00		775,755	12,14	5,700	775,764	5,00	6,518	775,324	-66,67
28843+0,000	-11,055	773,246	-66,670	-7,600	775,549	5,00	-6,100	775,624	-5,00	-3,600	775,749	-2,00	773,944	775,206	775,821	1,877	4,200	775,905	2,00		775,821	12,14	5,700	775,830	5,00	6,990	775,075	-66,67
28844+0,000	-9,418	774,482	-66,670	-7,600	775,694	5,00	-6,100	775,769	-5,00	-3,600	775,894	-2,00	775,171	775,351	775,966	0,795	4,200	776,050	2,00		775,966	12,14	5,700	775,975	5,00	6,025	775,863	-66,67
28845+0,000	-8,455	775,345	-66,670	-7,600	775,915	5,00	-6,100	775,990	-5,00	-3,600	776,115	-2,00	775,735	775,572	776,187	0,452	4,200	776,271	2,00		776,187	12,14	5,700	776,196	5,00	5,901	776,168	-66,67
28846+0,000	-7,742	776,073	-66,670	-7,600	776,167	5,00	-6,100	776,242	-5,00	-3,600	776,367	-2,00	776,357	775,824	776,439	0,082	4,200	776,523	2,00		776,439	12,14	5,700	776,448	5,00	6,159	776,607	100,00
28847+0,000	-7,892	776,412	100,000	-7,600	776,119	12,50	-6,100	776,494	-5,00	-3,600	776,619	-2,00	776,723	776,076	776,691	-0,032	4,200	776,775	2,00		776,691	12,14	5,700	776,700	5,00	6,139	776,839	100,00
28848+0,000	-7,765	776,561	-66,670	-7,600	776,671	5,00	-6,100	776,746	-5,00	-3,600	776,871	-2,00	776,847	776,328	776,943	0,096	4,200	777,027	2,00		776,943	12,14	5,700	776,952	5,00	6,200	777,152	100,00
28849+0,000	-8,552	776,289	-66,670	-7,600	776,923	5,00	-6,100	776,998	-5,00	-3,600	777,123	-2,00	776,506	776,580	777,195	0,689	4,200	777,279	2,00		777,195	12,14	5,700	777,204	5,00	6,161	777,002	-66,67
28850+0,000	-8,599	776,509	-66,670	-7,600	777,175	5,00	-6,100	777,250	-5,00	-3,600	777,375	-2,00	777,048	776,832	777,447	0,399	4,200	777,531	2,00		777,447	12,14	5,700	777,456	5,00	5,875	777,444	-66,67
28851+0,000	-8,716	776,683	-66,670	-7,600	777,427	5,00	-6,100	777,502	-5,00	-3,600	777,627	-2,00	777,350	777,084	777,699	0,349	4,200	777,783	2,00		777,699	12,14	5,700	777,708	5,00	5,804	777,744	-66,67
28852+0,000	-9,039	776,719	-66,670	-7,600	777,679	5,00	-6,100	777,754	-5,00	-3,600	777,879	-2,00	777,410	777,336	777,951	0,541	4,200	778,035	2,00		777,951	12,14	5,700	777,960	5,00	6,323	778,283	100,00
28853+0,000	-8,790	777,107	-66,670	-7,600	777,900	5,00	-6,100	777,975	-5,00	-3,600	778,100	-2,00	777,591	777,557	778,172	0,581	4,200	778,256	2,00		778,172	12,14	5,700	778,181	5,00	5,918	778,141	-66,67
28854+0,000	-9,288	776,945	-66,670	-7,600	778,071	5,00	-6,100	778,146	-5,00	-3,600	778,271	-2,00	777,592	777,728	778,343	0,751	4,200	778,427	2,00		778,343	12,14	5,700	778,352	5,00	6,108	778,185	-66,67
28855+0,000	-9,852	776,690	-66,670	-7,600	778,192	5,00	-6,100	778,267	-5,00	-3,600	778,392	-2,00	777,129	777,849	778,464	1,335	4,200	778,548	2,00		778,464	12,14	5,700	778,473	5,00	6,255	778,208	-66,67
28856+0,000	-9,440	777,035	-66,670	-7,600	778,262	5,00	-6,100	778,337	-5,00	-3,600	778,462	-2,00	777,764	777,919	778,534	0,770	4,200	778,618	2,00		778,534	12,14	5,700	778,543	5,00	6,017	778,436	-66,67
28857+0,000	-9,161	777,241	-66,670	-7,600	778,282	5,00	-6,100	778,357	-5,00	-3,600	778,482	-2,00	777,874	777,939	778,554	0,680	4,200	778,638	2,00		778,554	12,14	5,700	778,563	5,00	5,982	778,480	-66,67
28858+0,000	-9,390	777,059	-66,670	-7,600	778,253	5,00	-6,100	778,328	-5,00	-3,600	778,453	-2,00	777,331	777,910	778,525	1,194	4,200	778,609	2,00		778,525	12,14	5,700	778,534	5,00	6,070	778,392	-66,67
28859+0,000	-9,323	777,024	-66,670	-7,600	778,173	5,00	-6,100	778,248	-5,00	-3,600	778,373	-2,00	777,685	777,830	778,445	0,760	4,200	778,529	2,00		778,445	12,14	5,700	778,454	5,00	5,985	778,368	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28860+0,000	-9,078	777,057	-66,670	-7,600	778,042	5,00	-6,100	778,117	-5,00	-3,600	778,242	-2,00	777,486	777,699	778,314	0,828	4,200	778,398	2,00		778,314	12,14	5,700	778,323	5,00	5,999	778,229	-66,67
28861+0,000	-9,208	776,790	-66,670	-7,600	777,862	5,00	-6,100	777,937	-5,00	-3,600	778,062	-2,00	777,255	777,519	778,134	0,879	4,200	778,218	2,00		778,134	12,14	5,700	778,143	5,00	6,086	777,990	-66,67
28862+0,000	-9,521	776,351	-66,670	-7,600	777,631	5,00	-6,100	777,706	-5,00	-3,600	777,831	-2,00	776,767	777,288	777,903	1,136	4,200	777,987	2,00		777,903	12,14	5,700	777,912	5,00	6,303	777,615	-66,67
28863+0,000	-10,065	775,708	-66,670	-7,600	777,351	5,00	-6,100	777,426	-5,00	-3,600	777,551	-2,00	776,192	777,008	777,623	1,431	4,200	777,707	2,00		777,623	12,14	5,700	777,632	5,00	6,323	777,321	-66,67
28864+0,000	-10,268	775,273	-66,670	-7,600	777,051	5,00	-6,100	777,126	-5,00	-3,600	777,251	-2,00	775,576	776,708	777,323	1,747	4,200	777,407	2,00		777,323	12,14	5,700	777,332	5,00	6,419	776,957	-66,67
28865+0,000	-10,351	774,917	-66,670	-7,600	776,751	5,00	-6,100	776,826	-5,00	-3,600	776,951	-2,00	775,466	776,408	777,023	1,557	4,200	777,107	2,00		777,023	12,14	5,700	777,032	5,00	6,472	776,622	-66,67
28866+0,000	-11,195	774,054	-66,670	-7,600	776,451	5,00	-6,100	776,526	-5,00	-3,600	776,651	-2,00	774,568	776,108	776,723	2,155	4,200	776,807	2,00		776,723	12,14	5,700	776,732	5,00	6,399	776,371	-66,67
28867+0,000	-11,546	773,520	-66,670	-7,600	776,151	5,00	-6,100	776,226	-5,00	-3,600	776,351	-2,00	773,932	775,808	776,423	2,491	4,200	776,507	2,00		776,423	12,14	5,700	776,432	5,00	6,486	776,013	-66,67
28868+0,000	-11,705	773,114	-66,670	-7,600	775,851	5,00	-6,100	775,926	-5,00	-3,600	776,051	-2,00	773,706	775,508	776,123	2,417	4,200	776,207	2,00		776,123	12,14	5,700	776,132	5,00	6,560	775,663	-66,67
28869+0,000	-11,905	772,681	-66,670	-7,600	775,551	5,00	-6,100	775,626	-5,00	-3,600	775,751	-2,00	773,395	775,208	775,823	2,428	4,200	775,907	2,00		775,823	12,14	5,700	775,832	5,00	6,450	775,437	-66,67
28870+0,000	-12,015	772,343	-66,670	-7,600	775,286	5,00	-6,100	775,361	-5,00	-3,600	775,486	-2,00	773,572	774,943	775,558	1,986	4,200	775,642	2,00		775,558	12,14	5,700	775,567	5,00	6,537	775,115	-66,67
28871+0,000	-12,046	772,114	-66,670	-7,600	775,078	5,00	-6,100	775,153	-5,00	-3,600	775,278	-2,00	773,832	774,735	775,350	1,518	4,200	775,434	2,00		775,350	12,14	5,700	775,359	5,00	6,426	774,980	-66,67
28872+0,000	-11,837	772,101	-66,670	-7,600	774,926	5,00	-6,100	775,001	-5,00	-3,600	775,126	-2,00	772,870	774,583	775,198	2,328	4,200	775,282	2,00		775,198	12,14	5,700	775,207	5,00	6,396	774,848	-66,67
28873+0,000	-11,734	772,039	-66,670	-7,600	774,796	5,00	-6,100	774,871	-5,00	-3,600	774,996	-2,00	772,596	774,453	775,068	2,472	4,200	775,152	2,00		775,068	12,14	5,700	775,077	5,00	6,329	774,762	-66,67
28874+0,000	-11,542	772,038	-66,670	-7,600	774,666	5,00	-6,100	774,741	-5,00	-3,600	774,866	-2,00	772,564	774,323	774,938	2,374	4,200	775,022	2,00		774,938	12,14	5,700	774,947	5,00	6,320	774,638	-66,67
28875+0,000	-11,319	772,056	-66,670	-7,600	774,536	5,00	-6,100	774,611	-5,00	-3,600	774,736	-2,00	772,635	774,193	774,808	2,173	4,200	774,892	2,00		774,808	12,14	5,700	774,817	5,00	6,683	774,266	-66,67
28876+0,000	-11,369	771,893	-66,670	-7,600	774,406	5,00	-6,100	774,481	-5,00	-3,600	774,606	-2,00	772,834	774,063	774,678	1,844	4,200	774,762	2,00		774,678	12,14	5,700	774,687	5,00	6,018	774,580	-66,67
28877+0,000	-11,043	771,981	-66,670	-7,600	774,276	5,00	-6,100	774,351	-5,00	-3,600	774,476	-2,00	772,677	773,933	774,548	1,871	4,200	774,632	2,00		774,548	12,14	5,700	774,557	5,00	6,100	774,395	-66,67
28878+0,000	-10,779	772,026	-66,670	-7,600	774,146	5,00	-6,100	774,221	-5,00	-3,600	774,346	-2,00	772,663	773,803	774,418	1,755	4,200	774,502	2,00		774,418	12,14	5,700	774,427	5,00	6,552	773,964	-66,67
28879+0,000	-10,717	771,938	-66,670	-7,600	774,016	5,00	-6,100	774,091	-5,00	-3,600	774,216	-2,00	772,729	773,673	774,288	1,559	4,200	774,372	2,00		774,288	12,14	5,700	774,297	5,00	6,511	773,861	-66,67
28880+0,000	-10,494	771,956	-66,670	-7,600	773,886	5,00	-6,100	773,961	-5,00	-3,600	774,086	-2,00	772,700	773,543	774,158	1,458	4,200	774,242	2,00		774,158	12,14	5,700	774,167	5,00	6,530	773,719	-66,67
28881+0,000	-10,806	771,618	-66,670	-7,600	773,756	5,00	-6,100	773,831	-5,00	-3,600	773,956	-2,00	772,576	773,413	774,028	1,452	4,200	774,112	2,00		774,028	12,14	5,700	774,037	5,00	6,526	773,591	-66,67
28882+0,000	-10,498	771,694	-66,670	-7,600	773,626	5,00	-6,100	773,701	-5,00	-3,600	773,826	-2,00	772,424	773,283	773,898	1,474	4,200	773,982	2,00		773,898	12,14	5,700	773,907	5,00	6,598	773,413	-66,67
28883+0,000	-10,459	771,590	-66,670	-7,600	773,496	5,00	-6,100	773,571	-5,00	-3,600	773,696	-2,00	772,338	773,153	773,768	1,430	4,200	773,852	2,00		773,768	12,14	5,700	773,777	5,00	6,598	773,283	-66,67
28884+0,000	-10,535	771,409	-66,670	-7,600	773,366	5,00	-6,100	773,441	-5,00	-3,600	773,566	-2,00	772,262	773,023	773,638	1,376	4,200	773,722	2,00		773,638	12,14	5,700	773,647	5,00	6,517	773,207	-66,67
28885+0,000	-10,527	771,285	-66,670	-7,600	773,236	5,00	-6,100	773,311	-5,00	-3,600	773,436	-2,00	772,142	772,893	773,508	1,366	4,200	773,592	2,00		773,508	12,14	5,700	773,517	5,00	6,578	773,037	-66,67
28886+0,000	-10,845	771,000	-66,670	-7,600	773,163	5,00	-6,100	773,238	-5,00	-3,600	773,363	-2,00	772,353	772,820	773,435	1,082	4,200	773,519	2,00		773,435	12,14	5,700	773,444	5,00	6,441	773,055	-66,67
28887+0,000	-9,731	771,762	-66,670	-7,600	773,182	5,00	-6,100	773,257	-5,00	-3,600	773,382	-2,00	772,501	772,839	773,454	0,953	4,200	773,538	2,00		773,454	12,14	5,700	773,463	5,00	6,466	773,058	-66,67
28888+0,000	-9,939	771,734	-66,670	-7,600	773,294	5,00	-6,100	773,369	-5,00	-3,600	773,494	-2,00	771,826	772,951	773,566	1,740	4,200	773,650	2,00		773,566	12,14	5,700	773,575	5,00	6,527	773,129	-66,67
28889+0,000	-11,550	770,864	-66,670	-7,600	773,497	5,00	-6,100	773,572	-5,00	-3,600	773,697	-2,00	771,404	773,154	773,769	2,365	4,200	773,853	2,00		773,769	12,14	5,700	773,778	5,00	7,093	772,955	-66,67
28890+0,000	-11,313	771,317	-66,670	-7,600	773,793	5,00	-6,100	773,868	-5,00	-3,600	773,993	-2,00	772,945	773,450	774,065	1,120	4,200	774,149	2,00		774,065	12,14	5,700	774,074	5,00	6,445	773,682	-66,67
28891+0,000	-9,967	772,603	-66,670	-7,600	774,181	5,00	-6,100	774,256	-5,00	-3,600	774,381	-2,00	773,407	773,838	774,453	1,046	4,200	774,537	2,00		774,453	12,14	5,700	774,462	5,00	6,648	773,935	-66,67
28892+0,000	-9,815	773,184	-66,670	-7,600	774,661	5,00	-6,100	774,736	-5,00	-3,600	774,861	-2,00	773,738	774,318	774,933	1,195	4,200	775,017	2,00		774,933	12,14	5,700	774,942	5,00	6,675	774,397	-66,67
28893+0,000	-9,343	774,084	-66,670	-7,600	775,246	4,99	-6,100	775,321	-5,00	-4,011	775,425	-2,00	774,493	774,891	775,506	1,013	4,200	775,590	2,00		775,506	11,97	5,700	775,515	5,00	6,352	775,185	-66,67
28894+0,000	-8,658	775,235	-66,670	-7,600	775,941	5,00	-6,100	776,016	-5,00	-5,040	776,069	-2,00	775,673	775,555	776,170	0,497	4,200	776,254	2,00		776,170	11,53	5,700	776,179	5,00	6,291	775,890	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28895+0,000	-8,376	776,154	-66,670	-7,600	776,672	4,96	-6,100	776,747	-5,00	-6,069	776,748	-2,00	776,396	776,255	776,870	0,474	4,200	776,954	2,00		776,870	11,10	5,700	776,879	5,00	6,209	776,644	-66,67
28896+0,000	-8,833	777,195	-66,670	-8,597	777,353	5,00				-7,097	777,428	-2,00	777,193	776,955	777,570	0,377	4,200	777,654	2,00		777,570	9,97	5,700	777,579	5,00	6,348	777,252	-66,67
28897+0,000	-8,848	777,952	-66,670	-8,700	778,051	5,00				-7,200	778,126	-2,00	778,062	777,655	778,270	0,208	4,200	778,354	2,00		778,270	9,87	5,700	778,279	5,00	6,307	777,979	-66,67
28898+0,000	-9,174	778,925	100,000	-8,700	778,451	25,00				-7,200	778,826	-2,00	778,881	778,355	778,970	0,089	4,200	779,054	2,00		778,970	9,87	5,700	778,979	5,00	6,234	778,728	-66,67
28899+0,000										-3,600	779,580	-2,00	779,855	779,037	779,652	-0,203	4,200	779,736	2,00		779,652	2,00	5,700	779,661	5,00	6,116	779,777	100,00
28900+0,000	-8,348	780,516	100,000	-7,514	779,682	12,65	-6,014	780,057	-5,00	-3,600	780,177	-2,00	780,190	779,634	780,249	0,059	4,200	780,333	2,00		780,249	12,23	5,700	780,258	5,00	6,086	780,106	-66,67
28901+0,000	-8,702	781,285	100,000	-7,600	780,183	12,50	-6,100	780,558	-5,00	-3,600	780,683	-2,00	781,114	780,140	780,755	-0,359	4,200	780,839	2,00		780,755	12,14	5,700	780,764	5,00	5,828	780,784	-66,67
28902+0,000	-8,761	781,757	100,000	-7,600	780,596	12,50	-6,100	780,971	-5,00	-3,600	781,096	-2,00	781,646	780,553	781,168	-0,478	4,200	781,252	2,00		781,168	12,14	5,700	781,177	5,00	5,935	781,125	-66,67
28903+0,000	-9,027	782,344	100,000	-7,600	780,917	12,50	-6,100	781,292	-5,00	-3,600	781,417	-2,00	781,794	780,874	781,489	-0,305	4,200	781,573	2,00		781,489	12,14	5,700	781,498	5,00	5,897	781,472	-66,67
28904+0,000	-8,772	782,319	100,000	-7,600	781,146	12,50	-6,100	781,521	-5,00	-3,600	781,646	-2,00	781,911	781,103	781,718	-0,193	4,200	781,802	2,00		781,718	12,14	5,700	781,727	5,00	6,023	781,617	-66,67
28905+0,000	-8,885	782,568	100,000	-7,600	781,284	12,50	-6,100	781,659	-5,00	-3,600	781,784	-2,00	782,093	781,241	781,856	-0,237	4,200	781,940	2,00		781,856	12,14	5,700	781,865	5,00	5,962	781,795	-66,67
28906+0,000	-8,844	782,573	100,000	-7,600	781,329	12,50	-6,100	781,704	-5,00	-3,600	781,829	-2,00	782,160	781,286	781,901	-0,259	4,200	781,985	2,00		781,901	12,14	5,700	781,910	5,00	5,937	781,857	-66,67
28907+0,000	-8,511	782,193	100,000	-7,600	781,282	12,50	-6,100	781,657	-5,00	-3,600	781,782	-2,00	782,055	781,239	781,854	-0,201	4,200	781,938	2,00		781,854	12,14	5,700	781,863	5,00	6,036	781,745	-66,67
28908+0,000	-8,300	781,843	100,000	-7,600	781,143	12,50	-6,100	781,518	-5,00	-3,600	781,643	-2,00	781,748	781,100	781,715	-0,033	4,200	781,799	2,00		781,715	12,14	5,700	781,724	5,00	6,111	781,556	-66,67
28909+0,000	-7,690	781,170	-66,670	-7,600	781,230	5,00	-6,100	781,305	-5,00	-3,600	781,430	-2,00	781,328	780,887	781,502	0,174	4,200	781,586	2,00		781,502	12,14	5,700	781,511	5,00	6,185	781,293	-66,67
28910+0,000	-7,790	780,884	-66,670	-7,600	781,010	5,00	-6,100	781,085	-5,00	-3,600	781,210	-2,00	781,037	780,667	781,282	0,245	4,200	781,366	2,00		781,282	12,14	5,700	781,291	5,00	6,130	781,110	-66,67
28911+0,000	-7,932	780,569	-66,670	-7,600	780,790	5,00	-6,100	780,865	-5,00	-3,600	780,990	-2,00	780,757	780,447	781,062	0,305	4,200	781,146	2,00		781,062	12,14	5,700	781,071	5,00	6,125	780,893	-66,67
28912+0,000	-7,889	780,377	-66,670	-7,600	780,570	5,00	-6,100	780,645	-5,00	-3,600	780,770	-2,00	780,602	780,227	780,842	0,240	4,200	780,926	2,00		780,842	12,14	5,700	780,851	5,00	6,155	780,653	-66,67
28913+0,000	-7,789	780,224	-66,670	-7,600	780,350	5,00	-6,100	780,425	-5,00	-3,600	780,550	-2,00	780,292	780,007	780,622	0,330	4,200	780,706	2,00		780,622	12,14	5,700	780,631	5,00	6,240	780,377	-66,67
28914+0,000	-7,884	779,941	-66,670	-7,600	780,130	5,00	-6,100	780,205	-5,00	-3,600	780,330	-2,00	780,126	779,787	780,402	0,276	4,200	780,486	2,00		780,402	12,14	5,700	780,411	5,00	6,268	780,138	-66,67
28915+0,000	-7,972	779,662	-66,670	-7,600	779,910	5,00	-6,100	779,985	-5,00	-3,600	780,110	-2,00	779,721	779,567	780,182	0,461	4,200	780,266	2,00		780,182	12,14	5,700	780,191	5,00	6,274	779,914	-66,67
28916+0,000	-8,266	779,246	-66,670	-7,600	779,690	5,00	-6,100	779,765	-5,00	-3,600	779,890	-2,00	779,398	779,347	779,962	0,564	4,200	780,046	2,00		779,962	12,14	5,700	779,971	5,00	6,236	779,719	-66,67
28917+0,000	-8,328	778,985	-66,670	-7,600	779,470	5,00	-6,100	779,545	-5,00	-3,600	779,670	-2,00	779,234	779,127	779,742	0,508	4,200	779,826	2,00		779,742	12,14	5,700	779,751	5,00	6,378	779,404	-66,67
28918+0,000	-8,640	778,557	-66,670	-7,600	779,250	5,00	-6,100	779,325	-5,00	-3,600	779,450	-2,00	778,919	778,907	779,522	0,603	4,200	779,606	2,00		779,522	12,14	5,700	779,531	5,00	6,237	779,278	-66,67
28919+0,000	-8,732	778,275	-66,670	-7,600	779,030	5,00	-6,100	779,105	-5,00	-3,600	779,230	-2,00	778,660	778,687	779,302	0,642	4,200	779,386	2,00		779,302	12,14	5,700	779,311	5,00	6,389	778,957	-66,67
28920+0,000	-8,756	778,039	-66,670	-7,600	778,810	5,00	-6,100	778,885	-5,00	-3,600	779,010	-2,00	778,471	778,467	779,082	0,611	4,200	779,166	2,00		779,082	12,14	5,700	779,091	5,00	6,314	778,787	-66,67
28921+0,000	-11,154	776,221	-66,670	-7,600	778,590	5,00	-6,100	778,665	-5,00	-3,600	778,790	-2,00	777,947	778,247	778,862	0,915	4,200	778,946	2,00		778,862	12,14	5,700	778,871	5,00	6,258	778,604	-66,67
28922+0,000										-6,100	778,520	-2,00	777,129	778,027	778,642	1,513	5,000	778,742	2,00		778,642	2,00	6,500	778,367	25,00			
28923+0,000	-12,460	774,917	-66,670	-7,600	778,157	5,00	-6,100	778,232	-5,00	-3,600	778,357	-2,00	776,941	777,814	778,429	1,488	4,200	778,513	2,00		778,429	12,14	5,700	778,438	5,00	6,268	778,164	-66,67
28924+0,000	-13,161	774,247	-66,670	-7,600	777,954	5,00	-6,100	778,029	-5,00	-3,600	778,154	-2,00	776,165	777,611	778,226	2,061	4,200	778,310	2,00		778,226	12,14	5,700	778,235	5,00	6,504	777,804	-66,67
28925+0,000										-3,600	777,962	-2,00	774,863	777,419	778,034	3,171	4,200	778,118	2,00		778,034	2,00	5,700	778,043	5,00	6,868	777,370	-66,67
28926+0,000										-3,600	777,774	-2,00	774,686	777,231	777,846	3,160	4,200	777,930	2,00		777,846	2,00	5,700	777,855	5,00	7,047	777,062	-66,67
28927+0,000	-14,369	773,660	-66,670	-8,700	777,439	5,00				-7,200	777,514	-2,00	775,050	777,043	777,658	2,608	4,501	777,748	2,00		777,658	9,87	6,001	777,673	5,00	7,162	777,005	-66,67
28928+0,000	-13,514	773,709	-66,670	-8,186	777,261	5,00				-6,686	777,336	-2,00	774,749	776,855	777,470	2,721	5,599	777,582	2,00		777,470	10,39	7,099	777,507	5,00	7,854	777,108	-66,67
28929+0,000	-12,076	773,814	-66,670	-7,157	777,094	5,00				-5,657	777,169	-2,00	774,873	776,667	777,282	2,409	7,504	777,432	2,00		777,282	11,69	9,004	777,357	5,00	9,505	777,128	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28930+0,000	-11,722	774,105	-66,670	-7,600	776,853	4,98	-6,100	776,928	-5,00	-4,629	777,001	-2,00	774,689	776,479	777,094	2,405	10,227	777,298	2,00		777,094	11,71	11,727	777,223	5,00	12,087	777,089	-66,67
28931+0,000	-10,632	774,612	-66,670	-7,600	776,634	5,00	-6,100	776,709	-5,00	-3,600	776,834	-2,00	775,766	776,291	776,906	1,140	4,200	776,990	2,00		776,906	12,14	5,700	776,915	5,00	6,630	776,400	-66,67
28932+0,000	-9,780	774,993	-66,670	-7,600	776,446	5,00	-6,100	776,521	-5,00	-3,600	776,646	-2,00	775,175	776,103	776,718	1,543	4,200	776,802	2,00		776,718	12,14	5,700	776,727	5,00	6,792	776,104	-66,67
28933+0,000	-9,197	775,195	-66,670	-7,600	776,260	5,00	-6,100	776,335	-5,00	-3,600	776,460	-2,00	775,582	775,917	776,532	0,950	4,200	776,616	2,00		776,532	12,14	5,700	776,541	5,00	6,617	776,034	-66,67
28933+7,664	-9,046	775,225	-66,670	-7,600	776,189	5,00	-6,100	776,264	-5,00	-3,600	776,389	-2,00		775,846	776,461	776,461	4,200	776,545	2,00		776,461	12,14	5,700	776,470	5,00	6,481	776,055	-66,67
28934+0,000	-8,140	775,717	-66,670	-7,600	776,078	5,00	-6,100	776,153	-5,00	-3,600	776,278	-2,00	775,669	775,735	776,350	0,681	4,200	776,434	2,00		776,350	12,14	5,700	776,359	5,00	6,371	776,016	-66,67
28935+0,000	-8,094	775,570	-66,670	-7,600	775,900	5,00	-6,100	775,975	-5,00	-3,600	776,100	-2,00	775,714	775,557	776,172	0,458	4,200	776,256	2,00		776,172	12,14	5,700	776,181	5,00	6,202	775,951	-66,67
28936+0,000	-8,214	776,036	100,000	-7,600	775,422	12,50	-6,100	775,797	-5,00	-3,600	775,922	-2,00	775,882	775,379	775,994	0,112	4,644	776,087	2,00		775,994	12,14	6,144	776,012	5,00	6,771	775,699	-66,67
28937+0,000	-8,335	775,980	100,000	-7,600	775,245	12,50	-6,100	775,620	-5,00	-3,600	775,745	-2,00	775,750	775,202	775,817	0,067	10,200	776,021	2,00		775,817	12,14	11,700	775,946	5,00	11,910	775,911	-66,67
28938+0,000	-8,478	775,946	100,000	-7,600	775,068	12,50	-6,100	775,443	-5,00	-3,600	775,568	-2,00	775,904	775,025	775,640	-0,264	10,200	775,844	2,00		775,640	12,14	11,700	775,769	5,00	11,894	775,745	-66,67
28938+18,292	-8,478	775,784	100,000	-7,600	774,906	12,50	-6,100	775,281	-5,00	-3,600	775,406	-2,00		774,863	775,478	775,478	10,200	775,682	2,00		775,478	12,14	11,700	775,607	5,00	11,894	775,583	-66,67
28939+0,000	-8,568	775,859	100,000	-7,600	774,891	12,50	-6,100	775,266	-5,00	-3,600	775,391	-2,00	775,714	774,848	775,463	-0,251	7,800	775,619	2,00		775,463	12,14	9,300	775,544	5,00	9,562	775,475	-66,67
28940+0,000	-8,448	775,575	100,000	-7,600	774,727	12,50	-6,100	775,102	-5,00	-3,600	775,227	-2,00	775,661	774,684	775,299	-0,362	7,800	775,455	2,00		775,299	12,14	9,300	775,380	5,00	9,532	775,330	-66,67
28940+19,958	-8,448	775,431	100,000	-7,600	774,583	12,50	-6,100	774,958	-5,00	-3,600	775,083	-2,00		774,540	775,155	775,155	7,800	775,311	2,00		775,155	12,14	9,300	775,236	5,00	9,532	775,186	-66,67
28941+0,000	-8,527	775,509	100,000	-7,600	774,582	12,50	-6,100	774,957	-5,00	-3,600	775,082	-2,00	775,275	774,539	775,154	-0,121	6,902	775,292	2,00		775,154	12,14	8,402	775,217	5,00	8,653	775,155	-66,67
28942+0,000	-8,235	775,089	100,000	-7,600	774,454	12,50	-6,100	774,829	-5,00	-3,600	774,954	-2,00	774,868	774,411	775,026	0,158	5,868	775,144	2,00		775,026	12,14	7,368	775,069	5,00	7,602	775,018	-66,67
28942+7,736	-8,291	775,096	100,000	-7,600	774,405	12,50	-6,100	774,780	-5,00	-3,600	774,905	-2,00		774,362	774,977	774,977	5,468	775,087	2,00		774,977	12,14	6,968	775,012	5,00	7,194	774,966	-66,67
28942+10,000	-8,244	775,033	100,000	-7,600	774,389	12,50	-6,100	774,764	-5,00	-3,600	774,889	-2,06		774,348	774,963	774,963	5,351	775,073	2,06		774,963	12,18	6,851	774,998	5,00	7,074	774,956	-66,67
28943+0,000	-7,727	774,531	-66,670	-7,600	774,615	5,00	-6,100	774,690	-5,00	-3,600	774,815	-2,34	774,535	774,285	774,900	0,365	4,841	775,013	2,34		774,900	12,32	6,341	774,938	5,00	6,581	774,888	-66,67
28943+10,000	-8,617	773,864	-66,670	-7,600	774,542	5,00	-6,100	774,617	-5,00	-3,600	774,742	-2,62		774,221	774,836	774,836	4,356	774,951	2,62		774,836	12,46	5,856	774,876	5,00	6,121	774,813	-66,67
28943+15,514	-8,617	773,829	-66,670	-7,600	774,507	5,00	-6,100	774,582	-5,00	-3,600	774,707	-2,62		774,186	774,801	774,801	4,356	774,916	2,62		774,801	12,46	5,856	774,841	5,00	6,121	774,778	-66,67
28944+0,000	-8,478	773,883	-66,670	-7,600	774,469	5,00	-6,100	774,544	-5,00	-3,600	774,669	-2,90	774,339	774,158	774,773	0,434	4,200	774,895	2,90		774,773	12,60	5,700	774,820	5,00	5,990	774,746	-66,67
28944+10,000	-8,599	773,729	-66,670	-7,600	774,395	5,00	-6,100	774,470	-5,00	-3,600	774,595	-3,18		774,095	774,710	774,710	4,200	774,843	3,18		774,710	12,74	5,700	774,768	5,00	5,996	774,694	-66,67
28944+17,736	-8,676	773,621	-66,670	-7,600	774,338	5,00	-6,100	774,413	-5,00	-3,600	774,538	-3,40		774,046	774,661	774,661	4,200	774,804	3,40		774,661	12,85	5,700	774,729	5,00	5,992	774,660	-66,67
28945+0,000	-8,718	773,578	-66,670	-7,600	774,324	5,00	-6,100	774,399	-5,00	-3,600	774,524	-3,40	774,140	774,031	774,646	0,506	4,200	774,789	3,40		774,646	12,85	5,700	774,714	5,00	5,988	774,648	-66,67
28945+10,000	-9,597	772,930	-66,670	-7,600	774,261	5,00	-6,100	774,336	-5,00	-3,600	774,461	-3,40		773,969	774,584	774,584	4,200	774,726	3,40		774,584	12,85	5,700	774,651	5,00	5,944	774,615	-66,67
28946+0,000	-10,073	772,561	-66,670	-7,600	774,210	5,00	-6,100	774,285	-5,00	-3,600	774,410	-3,40	774,014	773,917	774,532	0,518	4,200	774,675	3,40		774,532	12,85	5,700	774,600	5,00	5,913	774,584	-66,67
28946+10,000	-10,671	772,125	-66,670	-7,600	774,173	5,00	-6,100	774,248	-5,00	-3,600	774,373	-3,40		773,880	774,495	774,495	4,200	774,638	3,40		774,495	12,85	5,700	774,563	5,00	5,914	774,547	-66,67
28947+0,000	-11,140	771,792	-66,670	-7,600	774,152	5,00	-6,100	774,227	-5,00	-3,600	774,352	-3,40	774,088	773,859	774,474	0,386	4,200	774,617	3,40		774,474	12,85	5,700	774,542	5,00	5,911	774,527	-66,67
28947+10,000	-11,617	771,468	-66,670	-7,600	774,146	5,00	-6,100	774,221	-5,00	-3,600	774,346	-3,40		773,853	774,468	774,468	4,200	774,611	3,40		774,468	12,85	5,700	774,536	5,00	5,892	774,534	-66,67
28948+0,000	-11,674	771,439	-66,670	-7,600	774,155	5,00	-6,100	774,230	-5,00	-3,600	774,355	-3,40	774,121	773,863	774,478	0,357	4,200	774,621	3,40		774,478	12,85	5,700	774,546	5,00	5,903	774,536	-66,67
28948+10,000	-11,815	771,370	-66,670	-7,600	774,180	5,00	-6,100	774,255	-5,00	-3,600	774,380	-3,40		773,887	774,502	774,502	4,200	774,645	3,40		774,502	12,85	5,700	774,570	5,00	5,917	774,552	-66,67
28949+0,000	-11,580	771,567	-66,670	-7,600	774,220	5,00	-6,100	774,295	-5,00	-3,600	774,420	-3,40	774,307	773,927	774,542	0,235	4,200	774,685	3,40		774,542	12,85	5,700	774,610	5,00	5,900	774,603	-66,67
28949+10,000	-11,757	771,504	-66,670	-7,600	774,275	5,00	-6,100	774,350	-5,00	-3,600	774,475	-3,40		773,982	774,597	774,597	4,200	774,740	3,40		774,597	12,85	5,700	774,665	5,00	5,883	774,669	-66,67
28950+0,000	-11,547	771,714	-66,670	-7,600	774,345	5,00	-6,100	774,420	-5,00	-3,600	774,545	-3,40	774,732	774,053	774,668	-0,064	4,200	774,810	3,40		774,668	12,85	5,700	774,735	5,00	5,847	774,764	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28950+10,000	-11,822	771,616	-66,670	-7,600	774,431	5,00	-6,100	774,506	-5,00	-3,600	774,631	-3,40		774,138	774,753	774,753	4,200	774,896	3,40		774,753	12,85	5,700	774,821	5,00	6,172	774,993	100,00
28951+0,000	-11,048	772,233	-66,670	-7,600	774,532	5,00	-6,100	774,607	-5,00	-3,600	774,732	-3,40	774,758	774,239	774,854	0,096	4,200	774,997	3,40		774,854	12,85	5,700	774,922	5,00	5,810	774,975	-66,67
28951+10,000	-11,568	772,002	-66,670	-7,600	774,648	5,00	-6,100	774,723	-5,00	-3,600	774,848	-3,40		774,355	774,970	774,970	4,200	775,113	3,40		774,970	12,85	5,700	775,038	5,00	5,804	775,095	-66,67
28952+0,000	-11,424	772,230	-66,670	-7,600	774,779	5,00	-6,100	774,854	-5,00	-3,600	774,979	-3,40	775,029	774,487	775,102	0,073	4,200	775,245	3,40		775,102	12,85	5,700	775,170	5,00	5,799	775,230	-66,67
28952+10,000	-11,085	772,603	-66,670	-7,600	774,926	5,00	-6,100	775,001	-5,00	-3,600	775,126	-3,40		774,633	775,248	775,248	4,200	775,391	3,40		775,248	12,85	5,700	775,316	5,00	5,795	775,379	-66,67
28952+19,542	-10,850	772,913	-66,670	-7,600	775,080	5,00	-6,100	775,155	-5,00	-3,600	775,280	-3,40		774,788	775,403	775,403	4,200	775,545	3,40		775,403	12,85	5,700	775,470	5,00	5,779	775,544	-66,67
28953+0,000	-10,840	772,928	-66,670	-7,600	775,088	5,00	-6,100	775,163	-5,00	-3,600	775,288	-3,40	775,328	774,795	775,410	0,082	4,200	775,553	3,40		775,410	12,85	5,700	775,478	5,00	5,779	775,552	-66,67
28953+10,000	-10,522	773,317	-66,670	-7,600	775,265	5,00	-6,100	775,340	-5,00	-3,600	775,465	-3,40		774,973	775,588	775,588	4,200	775,730	3,40		775,588	12,85	5,700	775,655	5,00	5,757	775,743	-66,67
28954+0,000	-9,633	774,102	-66,670	-7,600	775,458	5,00	-6,100	775,533	-5,00	-3,600	775,658	-3,40	775,747	775,165	775,780	0,033	4,200	775,923	3,40		775,780	12,85	5,700	775,848	5,00	5,739	775,948	-66,67
28954+10,000	-8,608	774,994	-66,670	-7,600	775,665	5,00	-6,100	775,740	-5,00	-3,600	775,865	-3,40		775,373	775,988	775,988	4,200	776,130	3,40		775,988	12,85	5,700	776,055	5,00	5,730	776,161	-66,67
28955+0,000	-8,236	775,464	-66,670	-7,600	775,888	5,00	-6,100	775,963	-5,00	-3,600	776,088	-3,40	776,239	775,596	776,211	-0,028	4,200	776,353	3,40		776,211	12,85	5,700	776,278	5,00	5,708	776,399	-66,67
28955+10,000	-8,295	775,663	-66,670	-7,600	776,126	5,00	-6,100	776,201	-5,00	-3,600	776,326	-3,40		775,834	776,449	776,449	4,200	776,592	3,40		776,449	12,85	5,700	776,517	5,00	5,746	776,612	-66,67
28956+0,000	-8,288	775,917	-66,670	-7,600	776,376	5,00	-6,100	776,451	-5,00	-3,600	776,576	-3,40	776,760	776,083	776,698	-0,062	4,200	776,841	3,40		776,698	12,85	5,700	776,766	5,00	5,779	776,839	-66,67
28956+10,000	-7,929	776,406	-66,670	-7,600	776,625	5,00	-6,100	776,700	-5,00	-3,600	776,825	-3,40		776,332	776,947	776,947	4,200	777,090	3,40		776,947	12,85	5,700	777,015	5,00	5,785	777,084	-66,67
28957+0,000	-7,801	776,741	-66,670	-7,600	776,874	5,00	-6,100	776,949	-5,00	-3,600	777,074	-3,40	777,261	776,582	777,197	-0,064	4,200	777,340	3,40		777,197	12,85	5,700	777,265	5,00	5,767	777,346	-66,67
28957+10,000	-7,863	776,948	-66,670	-7,600	777,124	5,00	-6,100	777,199	-5,00	-3,600	777,324	-3,40		776,831	777,446	777,446	4,200	777,589	3,40		777,446	12,85	5,700	777,514	5,00	5,817	777,562	-66,67
28958+0,000	-7,792	777,246	-66,670	-7,600	777,373	5,00	-6,100	777,448	-5,00	-3,600	777,573	-3,40	777,802	777,081	777,696	-0,106	4,200	777,839	3,40		777,696	12,85	5,700	777,764	5,00	5,812	777,815	-66,67
28958+10,000	-7,650	777,590	-66,670	-7,600	777,623	5,00	-6,100	777,698	-5,00	-3,600	777,823	-3,40		777,330	777,945	777,945	4,200	778,088	3,40		777,945	12,85	5,700	778,013	5,00	5,891	778,011	-66,67
28959+0,000	-7,722	777,791	-66,670	-7,600	777,872	5,00	-6,100	777,947	-5,00	-3,600	778,072	-3,40	778,309	777,580	778,195	-0,114	4,200	778,338	3,40		778,195	12,85	5,700	778,263	5,00	5,870	778,275	-66,67
28959+10,000							-6,100	778,197	-5,00					777,829	778,444	778,444	4,820	778,608	3,40				6,320	778,233	25,00			
28960+0,000							-6,100	778,446	-5,00				778,823	778,079	778,694	-0,129	4,820	778,858	3,40				6,320	778,483	25,00			
28960+10,000							-6,100	778,696	-5,00					778,328	778,943	778,943	4,820	779,107	3,40				6,320	778,732	25,00			
28961+0,000							-6,100	778,945	-5,00				779,317	778,578	779,193	-0,124	4,820	779,357	3,40				6,320	778,982	25,00			
28961+1,349							-6,100	778,979	-5,00					778,611	779,226	779,226	4,820	779,390	3,40				6,320	779,015	25,00			
28961+10,000							-6,100	779,204	-5,00					778,827	779,442	779,442	4,820	779,594	3,16				6,320	779,219	25,00			
28962+0,000							-6,100	779,463	-5,00				779,831	779,077	779,692	-0,139	4,820	779,830	2,88				6,320	779,455	25,00			
28962+3,571							-6,100	779,552	-5,00					779,166	779,781	779,781	4,820	779,919	2,88				6,320	779,544	25,00			
28962+10,000							-6,100	779,723	-5,00					779,326	779,941	779,941	4,820	780,066	2,60				6,320	779,691	25,00			
28963+0,000							-6,100	779,982	-5,00				780,361	779,576	780,191	-0,170	4,820	780,302	2,32				6,320	779,927	25,00			
28963+10,000							-6,100	780,242	-5,00					779,825	780,440	780,440	4,820	780,538	2,04				6,320	780,163	25,00			
28963+11,349							-6,100	780,277	-5,00					779,859	780,474	780,474	4,820	780,570	2,00				6,320	780,195	25,00			
28964+0,000							-6,100	780,493	-5,00				780,836	780,075	780,690	-0,146	4,820	780,786	2,00				6,320	780,411	25,00			
28964+19,126							-6,100	780,967	-5,00					780,549	781,164	781,164	4,820	781,261	2,00				6,320	780,886	25,00			
28965+0,000							-6,100	780,989	-5,00				781,309	780,571	781,186	-0,123	4,820	781,282	2,00				6,320	780,907	25,00			
28966+0,000							-6,100	781,475	-5,00				781,810	781,057	781,672	-0,138	4,820	781,768	2,00				6,320	781,393	25,00			

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28967+0,000							-6,100	781,951	-5,00				782,287	781,533	782,148	-0,139	4,820	782,244	2,00				6,320	781,869	25,00			
28967+0,793							-6,100	781,969	-5,00					781,551	782,166	782,166	4,820	782,263	2,00				6,320	781,888	25,00			
28968+0,000							-6,100	782,423	-5,00				782,746	782,005	782,620	-0,126	4,820	782,716	2,00				6,320	782,341	25,00			
28969+0,000							-6,100	782,895	-5,00				783,214	782,477	783,092	-0,122	4,820	783,189	2,00				6,320	782,814	25,00			
28970+0,000							-6,100	783,368	-5,00				783,694	782,950	783,565	-0,129	4,820	783,661	2,00				6,320	783,286	25,00			
28971+0,000							-6,100	783,840	-5,00				784,190	783,422	784,037	-0,153	4,820	784,133	2,00				6,320	783,758	25,00			
28972+0,000							-6,100	784,312	-5,00				784,669	783,894	784,509	-0,160	4,820	784,606	2,00				6,320	784,231	25,00			
28973+0,000							-6,100	784,785	-5,00				785,175	784,367	784,982	-0,193	4,820	785,078	2,00				6,320	784,703	25,00			
28974+0,000							-6,100	785,257	-5,00				785,656	784,839	785,454	-0,202	4,820	785,550	2,00				6,320	785,175	25,00			
28975+0,000							-6,100	785,729	-5,00				786,116	785,311	785,926	-0,190	4,820	786,023	2,00				6,320	785,648	25,00			
28976+0,000							-6,100	786,202	-5,00				786,596	785,784	786,399	-0,197	4,820	786,495	2,00				6,320	786,120	25,00			
28977+0,000							-6,100	786,674	-5,00				787,049	786,256	786,871	-0,178	4,820	786,967	2,00				6,320	786,592	25,00			
28978+0,000							-6,100	787,146	-5,00				787,506	786,728	787,343	-0,163	4,820	787,440	2,00				6,320	787,065	25,00			
28979+0,000							-6,100	787,619	-5,00				787,939	787,201	787,816	-0,123	4,820	787,912	2,00				6,320	787,537	25,00			
28980+0,000							-6,100	788,081	-5,00				788,382	787,663	788,278	-0,104	4,820	788,375	2,00				6,320	788,000	25,00			
28981+0,000							-6,100	788,509	-5,00				788,833	788,091	788,706	-0,127	4,820	788,803	2,00				6,320	788,428	25,00			
28982+0,000	-7,693	788,840	-66,670	-7,600	788,902	3,13	-6,100	788,977	-2,00	-3,600	789,027	-2,00	789,157	788,484	789,099	-0,058	4,820	789,196	2,00				6,320	788,821	25,00			
28983+0,000	-7,838	789,101	-66,670	-7,600	789,260	3,13	-6,100	789,335	-2,00	-3,600	789,385	-2,00	789,459	788,842	789,457	-0,002	4,820	789,553	2,00				6,320	789,178	25,00			
28984+0,000	-8,005	789,412	-66,670	-7,754	789,579	3,08	-6,254	789,654	-2,00	-3,600	789,707	-2,00	789,772	789,164	789,779	0,007	4,820	789,876	2,00				6,320	789,501	25,00			
28985+0,000	-8,947	789,683	-66,670	-8,701	789,847	2,88	-7,201	789,922	-2,00	-3,600	789,994	-2,00	790,061	789,451	790,066	0,005	4,820	790,163	2,00				6,320	789,788	25,00			
28986+0,000	-9,249	789,951	-66,670	-9,037	790,092	2,83	-7,537	790,167	-2,00	-3,600	790,246	-2,00	790,286	789,703	790,318	0,032	4,820	790,414	2,00				6,320	790,039	25,00			
28987+0,000	-10,493	790,493	100,000	-9,990	789,990	7,39	-8,490	790,365	-2,00	-3,600	790,462	-2,00	790,507	789,919	790,534	0,027	4,820	790,631	2,00				6,320	790,256	25,00			
28988+0,000	-12,012	790,739	100,000	-11,415	790,142	6,41	-9,915	790,517	-2,00	-3,600	790,643	-2,00	790,710	790,100	790,715	0,005	4,820	790,812	2,00				6,320	790,437	25,00			
28989+0,000	-13,559	790,948	100,000	-12,870	790,259	5,72	-11,370	790,634	-2,00	-3,600	790,789	-2,00	790,885	790,246	790,861	-0,024	4,820	790,958	2,00				6,320	790,583	25,00			
28990+0,000	-15,410	791,424	100,000	-14,326	790,340	5,22	-12,826	790,715	-2,00	-3,600	790,900	-2,00	790,973	790,357	790,972	-0,001	4,820	791,068	2,00				6,320	790,693	25,00			
28991+0,000	-17,170	791,775	100,000	-15,781	790,386	4,84	-14,281	790,761	-2,00	-3,600	790,975	-2,00	791,023	790,432	791,047	0,024	4,820	791,143	2,00				6,320	790,768	25,00			
28992+0,000	-7,753	791,004	100,000	-7,344	790,595	11,22	-5,844	790,970	-2,00	-3,600	791,015	-2,00	791,046	790,472	791,087	0,041	4,820	791,183	2,00				6,320	790,808	25,00			
28992+8,786	-7,753	791,010	100,000	-7,344	790,601	11,22	-5,844	790,976	-2,00	-3,600	791,021	-2,00		790,478	791,093	791,093	4,820	791,189	2,00				6,320	790,814	25,00			
28992+12,825	-8,038	791,080	100,000	-7,556	790,598	10,72	-6,056	790,973	-2,00	-3,600	791,022	-2,00		790,479	791,094	791,094	4,820	791,190	2,00				6,320	790,815	25,00			
28992+15,517	-8,027	791,096	100,000	-7,600	790,668	10,62	-6,100	791,043	-2,00	-3,600	791,093			790,478	791,093	791,093	4,820	791,093					6,320	790,718	25,00			
28992+18,209	-8,027	791,095	100,000	-7,600	790,667	10,62	-6,100	791,042	-2,00	-3,600	791,092			790,477	791,092	791,092	4,820	791,092					6,320	790,717	25,00			
28993+0,000	-7,983	791,055	100,000	-7,600	790,671	10,62	-6,100	791,046	-2,00	-3,600	791,096	0,14	791,017	790,476	791,091	0,074	4,820	791,084	-0,14				6,320	790,709	25,00			
28993+10,000	-7,626	790,955	-66,670	-7,600	790,972	3,13	-6,100	791,047	-2,00	-3,600	791,097	0,46		790,465	791,080	791,080	4,820	791,058	-0,46				6,320	790,683	25,00			
28994+0,000							-6,100	790,973	-4,62				790,980	790,445	791,060	0,080	4,820	791,023	-0,77				6,320	790,648	25,00			
28994+10,000							-6,100	790,959	-4,47					790,417	791,032	791,032	4,820	790,979	-1,09				6,320	790,604	25,00			

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
28995+0,000							-6,100	790,937	-4,31				790,906	790,379	790,994	0,088	4,820	790,927	-1,41				6,320	790,552	25,00			
28995+10,000							-6,100	790,906	-4,16					790,333	790,948	790,948	4,820	790,865	-1,72				6,320	790,490	25,00			
28996+0,000							-6,100	790,866	-4,01				790,867	790,278	790,893	0,026	4,820	790,795	-2,04				6,320	790,420	25,00			
28996+5,517							-6,100	790,841	-3,92					790,244	790,859	790,859	4,820	790,752	-2,22				6,320	790,377	25,00			
28996+10,000							-6,100	790,818	-3,85					790,214	790,829	790,829	4,820	790,715	-2,36				6,320	790,340	25,00			
28997+0,000							-6,100	790,761	-3,70				790,788	790,142	790,757	-0,031	4,820	790,629	-2,67				6,320	790,254	25,00			
28997+10,000							-6,100	790,704	-3,54					790,070	790,685	790,685	4,820	790,541	-2,99				6,320	790,166	25,00			
28998+0,000							-6,100	790,646	-3,39				790,644	789,997	790,612	-0,032	4,820	790,453	-3,31				6,320	790,078	25,00			
28998+10,000							-6,100	790,589	-3,23					789,924	790,539	790,539	4,820	790,365	-3,62				6,320	789,990	25,00			
28998+18,723							-6,100	790,539	-3,10					789,861	790,476	790,476	4,820	790,288	-3,90				6,320	789,913	25,00			
28999+0,000	-8,546	789,834	-66,670	-7,600	790,465	3,60	-6,100	790,540	-2,76	-3,600	790,609	3,95	790,517	789,851	790,466	-0,051	4,510	790,288	-3,95		790,466	8,05	6,010	789,913	25,00			
28999+10,000	-8,431	789,918	-66,670	-7,600	790,472	1,92	-6,100	790,547	-0,09	-3,600	790,549	4,31		789,779	790,394	790,394	4,510	790,199	-4,31		790,394	6,59	6,010	789,824	25,00			
29000+0,000	-8,578	789,827	-66,670	-7,600	790,479	0,25	-6,100	790,554	2,59	-3,600	790,489	4,67	790,339	789,706	790,321	-0,018	4,510	790,110	-4,67		790,321	5,14	6,010	789,735	25,00			
29000+9,020	-8,712	789,744	-66,670	-7,600	790,485	-1,25	-6,100	790,560	5,00	-3,600	790,435	5,00		789,640	790,255	790,255	4,510	790,030	-5,00		790,255	3,84	6,010	789,655	25,00			
29000+10,000	-8,709	789,739	-66,670	-7,600	790,478	-1,25	-6,100	790,553	5,00	-3,600	790,428	5,00		789,633	790,248	790,248	4,510	790,023	-5,00		790,248	3,84	6,010	789,648	25,00			
29001+0,000	-8,750	789,638	-66,670	-7,600	790,405	-1,25	-6,100	790,480	5,00	-3,600	790,355	5,00	790,172	789,560	790,175	0,003	4,510	789,950	-5,00		790,175	3,84	6,010	789,575	25,00			
29001+10,000	-8,856	789,496	-66,670	-7,600	790,333	-1,25	-6,100	790,408	5,00	-3,600	790,283	5,00		789,488	790,103	790,103	4,510	789,877	-5,00		790,103	3,84	6,010	789,502	25,00			
29001+13,250	-8,873	789,461	-66,670	-7,600	790,309	-1,25	-6,100	790,384	5,00	-3,600	790,259	5,00		789,464	790,079	790,079	4,510	789,854	-5,00		790,079	3,84	6,010	789,479	25,00			
29002+0,000	-8,857	789,368	-66,670	-7,600	790,206	-0,12	-6,100	790,281	3,19	-3,600	790,201	4,75	790,032	789,415	790,030	-0,002	4,510	789,816	-4,75		790,030	4,81	6,010	789,441	25,00			
29002+10,000	-9,132	789,032	-66,670	-7,600	790,053	1,55	-6,100	790,128	0,52	-3,600	790,115	4,39		789,342	789,957	789,957	4,510	789,759	-4,39		789,957	6,26	6,010	789,384	25,00			
29003+0,000	-11,376	787,383	-66,670	-7,600	789,900	3,23	-6,100	789,975	-2,16	-3,600	790,029	4,03	789,889	789,269	789,884	-0,005	4,510	789,703	-4,03		789,884	7,72	6,010	789,328	25,00			
29003+3,515	-12,823	786,365	-66,670	-7,600	789,847	3,80	-6,100	789,922	-3,10	-3,600	789,999	3,90		789,244	789,859	789,859	4,510	789,683	-3,90		789,859	8,24	6,010	789,308	25,00			
29003+10,000							-6,100	789,871	-3,14					789,197	789,812	789,812	4,820	789,627	-3,82				6,320	789,252	25,00			
29004+0,000							-6,100	789,793	-3,19				789,760	789,124	789,739	-0,021	4,820	789,560	-3,71				6,320	789,185	25,00			
29004+10,000							-6,100	789,714	-3,25					789,051	789,666	789,666	4,820	789,493	-3,59				6,320	789,118	25,00			
29005+0,000							-6,100	789,636	-3,31				789,618	788,978	789,593	-0,025	4,820	789,426	-3,47				6,320	789,051	25,00			
29005+10,000							-6,100	789,557	-3,37					788,906	789,521	789,521	4,820	789,359	-3,35				6,320	788,984	25,00			
29006+0,000							-6,100	789,479	-3,42				789,480	788,833	789,448	-0,032	4,820	789,292	-3,24				6,320	788,917	25,00			
29006+5,779							-6,100	789,434	-3,46					788,791	789,406	789,406	4,820	789,253	-3,17				6,320	788,878	25,00			
29006+10,000							-6,100	789,400	-3,48					788,760	789,375	789,375	4,820	789,224	-3,12				6,320	788,849	25,00			
29007+0,000							-6,100	789,317	-3,54				789,290	788,682	789,297	0,007	4,820	789,153	-3,00				6,320	788,778	25,00			
29007+10,000	-8,875	788,342	-66,670	-7,597	789,194	3,13	-6,097	789,269	-2,00	-3,600	789,319	2,89		788,600	789,215	789,215	4,820	789,076	-2,89				6,320	788,701	25,00			
29008+0,000	-8,993	788,173	-66,670	-7,597	789,104	3,13	-6,097	789,179	-2,00	-3,600	789,229	2,77	789,144	788,514	789,129	-0,015	4,820	788,995	-2,77				6,320	788,620	25,00			
29008+10,000	-9,220	787,926	-66,670	-7,597	789,008	3,13	-6,097	789,083	-2,00	-3,600	789,133	2,65		788,423	789,038	789,038	4,820	788,910	-2,65				6,320	788,535	25,00			
29009+0,000	-9,037	787,948	-66,670	-7,597	788,909	3,10	-6,097	788,984	-2,00	-3,600	789,033	2,53	788,974	788,327	788,942	-0,032	4,820	788,820	-2,53				6,320	788,445	25,00			

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA BR-277 PISTA ESQUERDA																												
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
29009+10,000	-8,792	788,008	-66,670	-7,597	788,804	3,13	-6,097	788,879	-2,00	-3,600	788,929	2,42		788,227	788,842	788,842	4,820	788,726	-2,42				6,320	788,351	25,00			
29010+0,000	-17,195	787,912	-66,670	-16,282	788,522	2,35	-14,782	788,597	-2,00	-3,600	788,820	2,30	788,755	788,122	788,737	-0,018	4,820	788,627	-2,30				6,320	788,252	25,00			
29010+10,000	-15,478	787,952	-66,670	-14,748	788,439	2,40	-13,248	788,514	-2,00	-3,600	788,707	2,18		788,013	788,628	788,628	4,820	788,523	-2,18				6,320	788,148	25,00			
29011+0,000	-13,887	788,017	-66,670	-13,391	788,348	2,46	-11,891	788,423	-2,00	-3,600	788,589	2,06	788,536	787,899	788,514	-0,022	4,820	788,415	-2,06				6,320	788,040	25,00			
29011+10,000	-12,610	787,981	-66,670	-12,209	788,249	2,52	-10,709	788,324	-2,00	-3,600	788,466	1,95		787,781	788,396	788,396	4,820	788,302	-1,95				6,320	787,927	25,00			
29012+0,000	-11,715	787,799	-66,670	-11,201	788,142	2,59	-9,701	788,217	-2,00	-3,600	788,339	1,83	788,300	787,658	788,273	-0,027	4,820	788,185	-1,83				6,320	787,810	25,00			
29012+10,000	-10,974	787,620	-66,670	-10,364	788,027	2,66	-8,864	788,102	-2,00	-3,600	788,207	1,71		787,531	788,146	788,146	4,820	788,063	-1,71				6,320	787,688	25,00			
29013+0,000	-10,199	787,574	-66,670	-9,697	787,909	2,74	-8,197	787,984	-2,00	-3,600	788,076	1,60	788,026	787,403	788,018	-0,008	4,820	787,941	-1,60				6,320	787,566	25,00			
29013+10,000	-9,545	787,557	-66,670	-9,201	787,787	2,80	-7,701	787,862	-2,00	-3,600	787,944	1,48		787,276	787,891	787,891	4,820	787,819	-1,48				6,320	787,444	25,00			
29014+0,000	-9,148	787,478	-66,670	-8,873	787,662	2,84	-7,373	787,737	-2,00	-3,600	787,812	1,36	787,742	787,148	787,763	0,021	4,820	787,697	-1,36				6,320	787,322	25,00			
29014+10,000	-9,148	787,351	-66,670	-8,873	787,534	2,84	-7,373	787,609	-2,00	-3,600	787,684	1,36		787,020	787,635	787,635	4,820	787,570	-1,36				6,320	787,195	25,00			

1.3.3 PR-180 - Eixo

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA PR-180																											
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO										
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
4000+0,000	-8,481	794,525	-66,67	-7,600	795,113	5,00	-4,325	794,760	-0,11	-3,600	794,761	-0,11	795,180	794,765	795,195	0,015	3,600	794,693	-2,000	4,325	794,657	-5,00	7,600	795,045	5,00	7,960	794,850	-66,67
4000+1,643	-8,459	794,537	-66,67	-7,600	795,109	5,00	-4,325	794,754		-3,600	794,754		795,169	794,754	795,184	0,015	3,600	794,682	-2,000	4,325	794,646	-5,00	7,600	795,037	5,00	7,947	794,851	-66,67
4000+10,000	-8,443	794,528	-66,67	-7,600	795,090	5,00	-4,325	794,724	0,58	-3,600	794,720	0,58	795,121	794,699	795,129	0,008	3,600	794,627	-2,000	4,325	794,591	-5,00	7,600	794,997	5,00	7,879	794,856	-66,67
4001+0,000	-8,540	794,440	-66,67	-7,600	795,066	5,00	-4,325	794,689	1,28	-3,600	794,679	1,28	795,053	794,634	795,064	0,011	3,600	794,562	-2,000	4,325	794,525	-5,00	7,600	794,948	5,00	7,797	794,862	-66,67
4001+10,000	-8,880	794,190	-66,67	-7,600	795,043	5,00	-4,325	794,653	1,97	-3,600	794,639	1,97	794,984	794,568	794,998	0,014	3,600	794,496	-2,000	4,325	794,460	-5,00	7,600	794,900	5,00	7,762	794,837	-66,67
4002+0,000	-8,865	794,176	-66,67	-7,600	795,020	5,00	-4,325	794,617	2,67	-3,600	794,598	2,67	794,901	794,502	794,932	0,031	3,600	794,406	-2,670	4,325	794,370	-5,00	7,600	794,528	25,00	8,407	795,334	100,00
4002+10,000	-8,900	794,130	-66,67	-7,600	794,997	5,00	-4,325	794,582	3,36	-3,600	794,557	3,36	794,838	794,436	794,866	0,028	3,600	794,315	-3,360	4,325	794,279	-5,00	7,600	794,454	25,00	8,432	795,286	100,00
4003+0,000	-8,895	794,110	-66,67	-7,600	794,973	5,00	-4,325	794,546	4,06	-3,600	794,517	4,06	794,805	794,371	794,801	-0,004	3,600	794,224	-4,060	4,325	794,188	-5,00	7,600	794,381	25,00	8,440	795,221	100,00
4003+10,000	-8,737	794,192	-66,67	-7,600	794,950	5,00	-4,325	794,510	4,76	-3,600	794,476	4,76	794,724	794,305	794,735	0,011	3,600	794,134	-4,760	4,325	794,097	-5,00	7,600	794,308	25,00	8,524	795,232	100,00
4004+0,000	-8,343	794,431	-66,67	-7,600	794,927	5,00	-4,325	794,475	5,45	-3,600	794,435	5,45	794,644	794,239	794,669	0,025	3,600	794,043	-5,450	4,325	794,003	-5,45	7,600	794,234	25,00	8,366	795,000	100,00
4004+10,000	-8,047	794,605	-66,67	-7,600	794,903	5,00	-4,325	794,439	6,15	-3,600	794,395	6,15	794,207	794,173	794,603	0,396	3,600	793,952	-6,150	4,325	793,908	-6,15	7,600	794,161	25,00	8,312	794,873	100,00
4005+0,000	-8,065	794,570	-66,67	-7,600	794,880	5,00	-4,325	794,404	6,84	-3,600	794,354	6,84	794,325	794,108	794,538	0,213	3,600	793,861	-6,840	4,325	793,812	-6,84	7,600	794,087	25,00	8,285	794,772	100,00
4005+10,000	-8,096	794,526	-66,67	-7,600	794,857	5,00	-4,325	794,368	7,54	-3,600	794,313	7,54	794,190	794,042	794,472	0,282	3,600	793,771	-7,540	4,325	793,716	-7,54	7,600	794,014	25,00	8,253	794,666	100,00
4005+16,643	-8,187	794,450	-66,67	-7,600	794,841	5,00	-4,325	794,344	8,00	-3,600	794,286	8,00	794,429	793,998	794,428	-0,001	3,600	793,710	-8,000	4,325	793,652	-8,00	7,600	793,965	25,00	8,186	794,551	100,00
4006+0,000	-8,215	794,409	-66,67	-7,600	794,819	5,00	-4,325	794,322	8,00	-3,600	794,264	8,00	794,452	793,976	794,406	-0,046	3,600	793,688	-8,000	4,325	793,630	-8,00	7,600	793,943	25,00	8,149	794,492	100,00
4006+10,000	-8,536	794,129	-66,67	-7,600	794,753	5,00	-4,325	794,256	8,00	-3,600	794,198	8,00	794,487	793,910	794,340	-0,147	3,600	793,622	-8,000	4,325	793,564	-8,00	7,600	793,877	25,00	8,070	794,347	100,00
4007+0,000	-7,818	794,543	-66,67	-7,600	794,688	5,00	-4,325	794,191	8,00	-3,600	794,133	8,00	794,369	793,845	794,275	-0,094	3,600	793,557	-8,000	4,325	793,499	-8,00	7,600	793,812	25,00	8,012	794,224	100,00
4007+10,000	-7,807	794,484	-66,67	-7,600	794,622	5,00	-4,325	794,125	8,00	-3,600	794,067	8,00	794,307	793,779	794,209	-0,098	3,600	793,491	-8,000	4,325	793,433	-8,00	7,600	793,746	25,00	7,999	794,145	100,00
4008+0,000	-7,839	794,397	-66,67	-7,600	794,556	5,00	-4,325	794,059	8,00	-3,600	794,001	8,00	794,241	793,713	794,143	-0,098	3,600	793,425	-8,000	4,325	793,367	-8,00	7,600	793,680	25,00	7,997	794,077	100,00
4008+10,000	-7,899	794,291	-66,67	-7,600	794,490	5,00	-4,325	793,993	8,00	-3,600	793,935	8,00	794,138	793,647	794,077	-0,061	3,600	793,359	-8,000	4,325	793,301	-8,00	7,600	793,614	25,00	7,966	793,980	100,00
4009+0,000	-7,984	794,169	-66,67	-7,600	794,425	5,00	-4,325	793,928	8,00	-3,600	793,870	8,00	794,026	793,582	794,012	-0,014	3,600	793,294	-8,000	4,325	793,236	-8,00	7,600	793,549	25,00	7,894	793,842	100,00
4009+3,718	-8,009	794,127	-66,67	-7,600	794,400	5,00	-4,325	793,903	8,00	-3,600	793,845	8,00	793,988	793,557	793,987	-0,001	3,600	793,269	-8,000	4,325	793,211	-8,00	7,600	793,524	25,00	7,864	793,788	100,00
4009+10,000	-8,050	794,059	-66,67	-7,600	794,359	5,00	-4,325	793,862	8,00	-3,600	793,804	8,00	793,921	793,516	793,946	0,025	3,600	793,228	-8,000	4,325	793,170	-8,00	7,600	793,783	5,00	7,660	793,698	-66,67
4010+0,000	-8,144	793,931	-66,67	-7,600	794,293	5,00	-4,325	793,796	8,00	-3,600	793,738	8,00	793,815	793,450	793,880	0,065	3,600	793,162	-8,000	4,325	793,104	-8,00	7,600	793,717	5,00	7,847	793,507	-66,67
4010+10,000	-8,128	793,867	-66,67	-7,600	794,219	5,00	-4,325	793,722	8,00	-3,600	793,664	8,00	793,598	793,376	793,806	0,208	3,600	793,088	-8,000	4,325	793,030	-8,00	7,600	793,643	5,00	7,997	793,333	-66,67
4011+0,000	-8,246	793,697	-66,67	-7,600	794,127	5,00	-4,325	793,630	8,00	-3,600	793,572	8,00	793,424	793,284	793,714	0,290	3,600	792,996	-8,000	4,325	792,938	-8,00	7,600	793,551	5,00	8,133	793,151	-66,67
4011+10,000	-8,328	793,533	-66,67	-7,600	794,019	5,00	-4,325	793,522	8,00	-3,600	793,464	8,00	793,283	793,176	793,606	0,323	3,600	792,888	-8,000	4,325	792,830	-8,00	7,600	793,443	5,00	8,160	793,025	-66,67
4012+0,000	-8,331	793,405	-66,67	-7,600	793,893	5,00	-4,325	793,396	8,00	-3,600	793,338	8,00	793,164	793,050	793,480	0,316	3,600	792,762	-8,000	4,325	792,704	-8,00	7,600	793,317	5,00	8,133	792,916	-66,67
4012+10,000	-8,189	793,357	-66,67	-7,600	793,750	5,00	-4,325	793,253	8,00	-3,600	793,195	8,00	793,096	792,907	793,337	0,241	3,600	792,619	-8,000	4,325	792,561	-8,00	7,600	793,174	5,00	8,038	792,837	-66,67
4012+10,794	-8,178	793,352	-66,67	-7,600	793,737	5,00	-4,325	793,241	8,00	-3,600	793,182	8,00	793,088	792,894	793,324	0,236	3,600	792,606	-8,000	4,325	792,548	-8,00	7,600	793,161	5,00	8,032	792,829	-66,67
4013+0,000	-8,012	793,275	-66,67	-7,600	793,550	5,00	-4,325	793,065	7,36	-3,600	793,011	7,36	792,985	792,746	793,176	0,191	3,600	792,481	-7,360	4,325	792,428	-7,36	7,600	793,020	5,00	7,983	792,729	-66,67
4013+10,000	-7,882	793,151	-66,67	-7,600	793,339	5,00	-4,325	792,866	6,66	-3,600	792,817	6,66	792,905	792,577	793,007	0,102	3,600	792,337	-6,660	4,325	792,289	-6,66	7,600	792,859	5,00	7,997	792,570	-66,67
4014+0,000	-7,724	793,045	-66,67	-7,600	793,128	5,00	-4,325	792,667	5,97	-3,600	792,623	5,97	792,771	792,408	792,838	0,067	3,600	792,194	-5,970	4,325	792,150	-5,97	7,600	792,698	5,00	8,018	792,405	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA PR-180

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
4014+10,000	-7,671	792,869	-66,67	-7,600	792,916	5,00	-4,325	792,468	5,27	-3,600	792,429	5,27	792,607	792,240	792,670	0,063	3,600	792,050	-5,270	4,325	792,012	-5,27	7,600	792,537	5,00	7,831	792,379	-66,67
4015+0,000	-7,934	792,739	100,00	-7,600	792,405	25,00	-4,325	792,269	4,58	-3,600	792,235	4,58	792,535	792,071	792,501	-0,034	3,600	791,906	-4,580	4,325	791,872	-4,61	7,600	792,375	5,00	7,888	792,189	-66,67
4015+10,000	-8,046	792,640	100,00	-7,600	792,194	25,00	-4,325	792,070	3,88	-3,600	792,041	3,88	792,285	791,902	792,332	0,047	3,600	791,762	-3,880	4,325	791,734	-3,92	7,600	792,214	5,00	7,794	792,102	-66,67
4016+0,000	-8,163	792,545	100,00	-7,600	791,982	25,00	-4,325	791,871	3,19	-3,600	791,848	3,19	792,110	791,733	792,163	0,053	3,600	791,618	-3,190	4,325	791,595	-3,22	7,600	792,053	5,00	7,954	791,844	-66,67
4016+10,000	-8,324	792,495	100,00	-7,600	791,771	25,00	-4,325	791,672	2,49	-3,600	791,654	2,49	791,935	791,564	791,994	0,059	3,600	791,474	-2,490	4,325	791,456	-2,53	7,600	791,892	5,00	8,290	791,469	-66,67
4017+0,000	-8,324	792,284	100,00	-7,600	791,560	25,00	-4,325	791,473	1,79	-3,600	791,460	1,79	791,832	791,395	791,825	-0,007	3,600	791,329	-1,830	4,325	791,316	-1,83	7,600	791,729	5,00	8,291	791,316	-66,67
4017+10,000	-8,413	792,161	100,00	-7,600	791,348	25,00	-4,325	791,274	1,10	-3,600	791,266	1,10	791,712	791,226	791,656	-0,056	3,600	791,185	-1,140	4,325	791,177	-1,14	7,600	791,568	5,00	8,199	791,227	-66,67
4018+0,000	-8,452	791,989	100,00	-7,600	791,137	25,00	-4,325	791,075	0,40	-3,600	791,072	0,40	791,536	791,057	791,487	-0,049	3,600	791,041	-0,440	4,325	791,038	-0,44	7,600	791,407	5,00	8,245	791,045	-66,67
4018+5,794	-8,478	791,892	100,00	-7,600	791,014	25,00	-4,325	790,959		-3,600	790,959		791,427	790,959	791,389	-0,038	3,600	790,958	-0,040	4,325	790,958	-0,04	7,600	791,313	5,00	8,247	790,956	-66,67
4018+6,320	-8,479	791,883	100,00	-7,600	791,003	25,00	-4,325	790,949	-0,04	-3,600	790,949	-0,04	791,417	790,951	791,381	-0,036	3,600	790,951		4,325	790,951		7,600	791,305	5,00	8,246	790,949	-66,67
4018+10,000	-8,490	791,816	100,00	-7,600	790,926	25,00	-4,325	790,876	-0,29	-3,600	790,878	-0,29	791,345	790,888	791,318	-0,027	3,600	790,898	0,260	4,325	790,899	0,26	7,600	791,245	5,00	8,285	790,867	-66,67
4019+0,000	-8,412	791,526	100,00	-7,600	790,714	25,00	-4,325	790,677	-0,99	-3,600	790,684	-0,99	791,088	790,719	791,149	0,061	3,600	790,754	0,950	4,325	790,761	0,95	7,600	791,084	5,00	8,425	790,624	-66,67
4019+10,000	-8,307	791,210	100,00	-7,600	790,503	25,00	-4,325	790,478	-1,68	-3,600	790,490	-1,68	790,856	790,551	790,981	0,125	3,600	790,610	1,650	4,325	790,622	1,65	7,600	790,923	5,00	8,567	790,378	-66,67
4020+0,000	-8,208	790,901	100,00	-7,600	790,293	25,00	-4,325	790,280	-2,38	-3,600	790,297	-2,34	790,595	790,382	790,812	0,217	3,600	790,466	2,340	4,325	790,483	2,34	7,600	790,761	5,00	8,705	790,135	-66,67
4020+10,000	-8,163	790,644	100,00	-7,600	790,081	25,00	-4,325	790,081	-3,08	-3,600	790,103	-3,04	790,282	790,213	790,643	0,361	3,600	790,322	3,040	4,325	790,344	3,04	7,600	790,600	5,00	8,867	789,876	-66,67
4021+0,000	-8,070	790,340	100,00	-7,600	789,870	25,00	-4,325	789,882	-3,77	-3,600	789,909	-3,73	789,970	790,044	790,474	0,504	3,600	790,178	3,730	4,325	790,205	3,73	7,600	790,439	5,00	9,131	789,549	-66,67
4021+10,000	-7,926	789,975	100,00	-7,600	789,649	25,00	-4,325	789,674	-4,47	-3,600	789,706	-4,43	789,655	789,865	790,295	0,640	3,600	790,025	4,430	4,325	790,057	4,43	7,600	790,268	5,00	9,434	789,187	-66,67
4022+0,000	-7,979	789,771	100,00	-7,600	789,392	25,00	-4,325	789,428	-5,13	-3,600	789,465	-5,13	789,394	789,650	790,080	0,686	3,600	789,834	5,130	4,325	789,872	5,13	7,600	790,061	5,00	9,489	788,954	-66,67
4022+10,000	-8,149	789,645	100,00	-7,600	789,096	25,00	-4,325	789,144	-5,82	-3,600	789,186	-5,82	789,255	789,396	789,826	0,571	3,600	789,605	5,820	4,325	789,648	5,82	7,600	789,815	5,00	9,292	788,849	-66,67
4023+0,000	-8,479	789,639	100,00	-7,600	788,760	25,00	-4,325	788,821	-6,52	-3,600	788,868	-6,52	789,203	789,103	789,533	0,330	3,600	789,337	6,520	4,325	789,385	6,52	7,600	789,529	5,00	8,973	788,787	-66,67
4023+10,000	-8,880	789,666	100,00	-7,600	788,386	25,00	-4,325	788,459	-7,21	-3,600	788,511	-7,21	789,204	788,771	789,201	-0,003	3,600	789,031	7,210	4,325	789,083	7,21	7,600	789,205	5,00	8,566	788,744	-66,67
4024+0,000	-9,298	789,671	100,00	-7,600	787,973	25,00	-4,325	788,058	-7,91	-3,600	788,116	-7,91	789,195	788,400	788,830	-0,365	3,600	788,685	7,910	4,325	788,742	7,91	7,600	788,842	5,00	7,923	788,821	-66,67
4024+1,320	-9,358	789,674	100,00	-7,600	787,915	25,00	-4,325	788,002	-8,00	-3,600	788,060	-8,00	789,206	788,348	788,778	-0,428	3,600	788,636	8,000	4,325	788,694	8,00	7,600	788,791	5,00	7,821	788,839	-66,67
4024+10,000	-9,732	789,690	100,00	-7,600	787,558	25,00	-4,325	787,645	-8,00	-3,600	787,703	-8,00	789,311	787,991	788,421	-0,890	3,600	788,279	8,000	4,325	788,337	8,00	7,600	788,134	25,00	8,383	788,917	100,00
4025+0,000	-10,212	789,732	100,00	-7,600	787,119	25,00	-4,325	787,206	-8,00	-3,600	787,264	-8,00	789,395	787,552	787,982	-1,413	3,600	787,840	8,000	4,325	787,898	8,00	7,600	787,695	25,00	8,954	789,050	100,00
4025+10,000	-10,805	789,884	100,00	-7,600	786,679	25,00	-4,325	786,766	-8,00	-3,600	786,824	-8,00	789,462	787,112	787,542	-1,920	3,600	787,400	8,000	4,325	787,458	8,00	7,600	787,255	25,00	9,487	789,142	100,00
4025+10,731	-10,854	789,900	100,00	-7,600	786,647	25,00	-4,325	786,734	-8,00	-3,600	786,792	-8,00	789,468	787,080	787,510	-1,958	3,600	787,368	8,000	4,325	787,426	8,00	7,600	787,223	25,00	9,515	789,137	100,00
4026+0,000	-11,382	790,020	100,00	-7,600	786,238	25,00	-4,325	786,325	-8,00	-3,600	786,383	-8,00	789,555	786,671	787,101	-2,454	3,600	786,959	8,000	4,325	787,017	8,00	7,600	786,814	25,00	10,019	789,233	100,00
4026+10,000	-11,923	790,121	100,00	-7,600	785,798	25,00	-4,325	785,885	-8,00	-3,600	785,943	-8,00	789,689	786,231	786,661	-3,028	3,600	786,519	8,000	4,325	786,577	8,00	7,600	786,374	25,00	10,446	789,219	100,00
4027+0,000	-12,472	790,230	100,00	-7,600	785,357	25,00	-4,325	785,444	-8,00	-3,600	785,502	-8,00	789,775	785,790	786,220	-3,555	3,600	786,078	8,000	4,325	786,136	8,00	7,600	785,933	25,00	10,755	789,088	100,00
4027+0,143	-12,480	790,231	100,00	-7,600	785,351	25,00	-4,325	785,438	-8,00	-3,600	785,496	-8,00	789,773	785,784	786,214	-3,559	3,600	786,072	8,000	4,325	786,130	8,00	7,600	785,927	25,00	10,760	789,087	100,00
4027+10,000	-12,971	790,330	100,00	-7,600	784,959	25,00	-4,325	785,034	-7,31	-3,600	785,087	-7,31	789,684	785,350	785,780	-3,904	3,600	785,613	7,310	4,325	785,666	7,31	7,600	785,486	25,00	11,110	788,996	100,00
4028+0,000	-13,362	790,323	100,00	-7,600	784,561	25,00	-4,325	784,623	-6,62	-3,600	784,671	-6,62	789,852	784,910	785,340	-4,512	3,600	785,148	6,620	4,325	785,196	6,62	7,600	785,037	25,00	11,578	789,016	100,00
4028+10,000	-13,818	790,391	100,00	-7,600	784,174	25,00	-4,325	784,224	-5,92	-3,600	784,267	-5,92	789,980	784,480	784,910	-5,070	3,600	784,693	5,920	4,325	784,736	5,92	7,600	784,600	25,00	12,183	789,183	100,00

NOTA DE SERVIÇO DE TERRAPLENAGEM - RODOVIA PR-180

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
4029+0,000	-14,171	790,390	100,00	-7,600	783,819	25,00	-4,325	783,857	-5,23	-3,600	783,895	-5,23	790,050	784,083	784,513	-5,537	3,600	784,271	5,230	4,325	784,309	5,23	7,600	784,195	25,00	12,804	789,399	100,00
4029+10,000	-14,360	790,246	100,00	-7,600	783,486	25,00	-4,325	783,520	-5,00	-3,600	783,556	-4,53	790,019	783,719	784,149	-5,870	3,600	783,882	4,530	4,325	783,915	4,53	7,600	783,812	25,00	13,108	789,321	100,00
4030+0,000	-14,526	790,107	100,00	-7,600	783,181	25,00	-4,325	783,215	-5,00	-3,600	783,251	-3,84	789,936	783,389	783,819	-6,117	3,600	783,527	3,840	4,325	783,555	3,84	7,600	783,457	25,00	13,806	789,663	100,00
4030+10,000	-14,569	789,878	100,00	-7,600	782,909	25,00	-4,325	782,943	-5,00	-3,600	782,979	-3,14	789,989	783,092	783,522	-6,467	3,600	783,205	3,140	4,325	783,228	3,14	7,600	783,135	25,00	14,285	789,821	100,00
4031+0,000	-14,596	789,666	100,00	-7,600	782,671	25,00	-4,325	782,704	-5,00	-3,600	782,741	-2,44	789,775	782,829	783,259	-6,516	3,600	782,917	2,440	4,325	782,934	2,44	7,600	782,847	25,00	14,543	789,790	100,00
4031+10,000	-14,536	789,393	100,00	-7,600	782,457	25,00	-4,325	782,490	-5,00	-3,600	782,527	-2,00	789,522	782,599	783,029	-6,493	3,600	782,662	1,750	4,325	782,674	1,75	7,600	782,592	25,00	14,753	789,745	100,00
4032+0,000	-14,465	789,119	100,00	-7,600	782,254	25,00	-4,325	782,288	-5,00	-3,600	782,324	-2,00	789,276	782,396	782,826	-6,450	3,600	782,434	1,050	4,325	782,442	1,05	7,600	782,364	25,00	14,859	789,623	100,00
4032+10,000	-14,404	788,858	100,00	-7,600	782,054	25,00	-4,325	782,088	-5,00	-3,600	782,124	-2,00	789,026	782,196	782,626	-6,400	3,600	782,209	0,360	4,325	782,211	0,36	7,600	782,139	25,00	14,911	789,450	100,00
4032+15,143	-14,375	788,726	100,00	-7,600	781,951	25,00	-4,328	781,985	-5,00	-3,603	782,021	-2,00	788,951	782,093	782,523	-6,428	3,600	782,093		4,325	782,093		7,600	782,023	25,00	14,971	789,394	100,00
4033+0,000	-14,312	788,573	100,00	-7,603	781,864	25,00	-4,660	781,881	-5,00	-3,935	781,917	-2,00	788,881	781,996	782,426	-6,455	3,600	781,984	-0,340	4,325	781,981	-0,34	7,597	781,914	25,00	15,014	789,331	100,00
4033+10,000	-14,312	788,373	100,00	-7,603	781,664	25,00	-4,660	781,681	-5,00	-3,935	781,717	-2,00	788,699	781,796	782,226	-6,473	3,600	781,784	-0,340	4,325	781,781	-0,34	7,597	781,714	25,00	15,014	789,131	100,00
4034+0,000	-14,312	788,173	100,00	-7,603	781,464	25,00	-4,660	781,481	-5,00	-3,935	781,517	-2,00	788,489	781,596	782,026	-6,463	3,600	781,584	-0,340	4,325	781,581	-0,34	7,597	781,514	25,00	15,014	788,931	100,00
4034+7,629	-14,312	788,021	100,00	-7,603	781,311	25,00	-4,660	781,328	-5,00	-3,935	781,365	-2,00	788,330	781,443	781,873	-6,457	3,600	781,431	-0,340	4,325	781,429	-0,34	7,597	781,361	25,00	15,014	788,779	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA PR-180

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
4000+0,000	-8,481	794,525	-66,670	-7,600	795,113	5,00	-6,100	795,188	-0,12	-3,600	795,191	-0,11	795,180	794,765	795,195	0,015	3,600	795,123	-2,00	6,100	795,120	0,12	7,600	795,045	5,00	7,960	794,850	-66,67
4000+1,643	-8,459	794,537	-66,670	-7,600	795,109	5,00	-6,100	795,184		-3,600	795,184		795,169	794,754	795,184	0,015	3,600	795,112	-2,00	6,100	795,112		7,600	795,037	5,00	7,947	794,851	-66,67
4000+10,000	-8,443	794,528	-66,670	-7,600	795,090	5,00	-6,100	795,165	0,60	-3,600	795,150	0,58	795,121	794,699	795,129	0,008	3,600	795,057	-2,00	6,100	795,072	-0,60	7,600	794,997	5,00	7,879	794,856	-66,67
4001+0,000	-8,540	794,440	-66,670	-7,600	795,066	5,00	-6,100	795,141	1,28	-3,600	795,109	1,28	795,053	794,634	795,064	0,011	3,600	794,992	-2,00	6,100	795,023	-1,24	7,600	794,948	5,00	7,797	794,862	-66,67
4001+10,000	-8,880	794,190	-66,670	-7,600	795,043	5,00	-6,100	795,118	1,96	-3,600	795,069	1,97	794,984	794,568	794,998	0,014	3,600	794,926	-2,00	6,100	794,975	-1,96	7,600	794,900	5,00	7,762	794,837	-66,67
4002+0,000	-8,865	794,176	-66,670	-7,600	795,020	5,00	-6,100	795,095	2,68	-3,600	795,028	2,67	794,901	794,502	794,932	0,031	3,600	794,836	-2,67	6,100	794,903	-2,68	7,600	794,528	25,00	8,407	795,334	100,00
4002+10,000	-8,900	794,130	-66,670	-7,600	794,997	5,00	-6,100	795,072	3,40	-3,600	794,987	3,36	794,838	794,436	794,866	0,028	3,600	794,745	-3,36	6,100	794,829	-3,36	7,600	794,454	25,00	8,432	795,286	100,00
4003+0,000	-8,895	794,110	-66,670	-7,600	794,973	5,00	-6,100	795,048	4,04	-3,600	794,947	4,06	794,805	794,371	794,801	-0,004	3,600	794,654	-4,06	6,100	794,756	-4,08	7,600	794,381	25,00	8,440	795,221	100,00
4003+10,000	-8,737	794,192	-66,670	-7,600	794,950	5,00	-6,100	795,025	4,76	-3,600	794,906	4,76	794,724	794,305	794,735	0,011	3,600	794,564	-4,76	6,100	794,683	-4,76	7,600	794,308	25,00	8,524	795,232	100,00
4004+0,000	-8,343	794,431	-66,670	-7,600	794,927	5,00	-6,100	795,002	5,48	-3,600	794,865	5,45	794,644	794,239	794,669	0,025	3,600	794,473	-5,45	6,100	794,609	-5,44	7,600	794,234	25,00	8,366	795,000	100,00
4004+10,000	-8,047	794,605	-66,670	-7,600	794,903	5,00	-6,100	794,978	6,12	-3,600	794,825	6,15	794,207	794,173	794,603	0,396	3,600	794,382	-6,15	6,100	794,536	-6,16	7,600	794,161	25,00	8,312	794,873	100,00
4005+0,000	-8,065	794,570	-66,670	-7,600	794,880	5,00	-6,100	794,955	6,84	-3,600	794,784	6,84	794,325	794,108	794,538	0,213	3,600	794,291	-6,84	6,100	794,462	-6,84	7,600	794,087	25,00	8,285	794,772	100,00
4005+10,000	-8,096	794,526	-66,670	-7,600	794,857	5,00	-6,100	794,932	7,56	-3,600	794,743	7,54	794,190	794,042	794,472	0,282	3,600	794,201	-7,54	6,100	794,389	-7,52	7,600	794,014	25,00	8,253	794,666	100,00
4005+16,643	-8,187	794,450	-66,670	-7,600	794,841	5,00	-6,100	794,916	8,00	-3,600	794,716	8,00	794,429	793,998	794,428	-0,001	3,600	794,140	-8,00	6,100	794,340	-8,00	7,600	793,965	25,00	8,186	794,551	100,00
4006+0,000	-8,215	794,409	-66,670	-7,600	794,819	5,00	-6,100	794,894	8,00	-3,600	794,694	8,00	794,452	793,976	794,406	-0,046	3,600	794,118	-8,00	6,100	794,318	-8,00	7,600	793,943	25,00	8,149	794,492	100,00
4006+10,000	-8,536	794,129	-66,670	-7,600	794,753	5,00	-6,100	794,828	8,00	-3,600	794,628	8,00	794,487	793,910	794,340	-0,147	3,600	794,052	-8,00	6,100	794,252	-8,00	7,600	793,877	25,00	8,070	794,347	100,00
4007+0,000	-7,818	794,543	-66,670	-7,600	794,688	5,00	-6,100	794,763	8,00	-3,600	794,563	8,00	794,369	793,845	794,275	-0,094	3,600	793,987	-8,00	6,100	794,187	-8,00	7,600	793,812	25,00	8,012	794,224	100,00
4007+10,000	-7,807	794,484	-66,670	-7,600	794,622	5,00	-6,100	794,697	8,00	-3,600	794,497	8,00	794,307	793,779	794,209	-0,098	3,600	793,921	-8,00	6,100	794,121	-8,00	7,600	793,746	25,00	7,999	794,145	100,00
4008+0,000	-7,839	794,397	-66,670	-7,600	794,556	5,00	-6,100	794,631	8,00	-3,600	794,431	8,00	794,241	793,713	794,143	-0,098	3,600	793,855	-8,00	6,100	794,055	-8,00	7,600	793,680	25,00	7,997	794,077	100,00
4008+10,000	-7,899	794,291	-66,670	-7,600	794,490	5,00	-6,100	794,565	8,00	-3,600	794,365	8,00	794,138	793,647	794,077	-0,061	3,600	793,789	-8,00	6,100	793,989	-8,00	7,600	793,614	25,00	7,966	793,980	100,00
4009+0,000	-7,984	794,169	-66,670	-7,600	794,425	5,00	-6,100	794,500	8,00	-3,600	794,300	8,00	794,026	793,582	794,012	-0,014	3,600	793,724	-8,00	6,100	793,924	-8,00	7,600	793,549	25,00	7,894	793,842	100,00
4009+3,718	-8,009	794,127	-66,670	-7,600	794,400	5,00	-6,100	794,475	8,00	-3,600	794,275	8,00	793,988	793,557	793,987	-0,001	3,600	793,699	-8,00	6,100	793,899	-8,00	7,600	793,524	25,00	7,864	793,788	100,00
4009+10,000	-8,050	794,059	-66,670	-7,600	794,359	5,00	-6,100	794,434	8,00	-3,600	794,234	8,00	793,921	793,516	793,946	0,025	3,600	793,658	-8,00	6,100	793,858	-8,00	7,600	793,783	5,00	7,660	793,698	-66,67
4010+0,000	-8,144	793,931	-66,670	-7,600	794,293	5,00	-6,100	794,368	8,00	-3,600	794,168	8,00	793,815	793,450	793,880	0,065	3,600	793,592	-8,00	6,100	793,792	-8,00	7,600	793,717	5,00	7,847	793,507	-66,67
4010+10,000	-8,128	793,867	-66,670	-7,600	794,219	5,00	-6,100	794,294	8,00	-3,600	794,094	8,00	793,598	793,376	793,806	0,208	3,600	793,518	-8,00	6,100	793,718	-8,00	7,600	793,643	5,00	7,997	793,333	-66,67
4011+0,000	-8,246	793,697	-66,670	-7,600	794,127	5,00	-6,100	794,202	8,00	-3,600	794,002	8,00	793,424	793,284	793,714	0,290	3,600	793,426	-8,00	6,100	793,626	-8,00	7,600	793,551	5,00	8,133	793,151	-66,67
4011+10,000	-8,328	793,533	-66,670	-7,600	794,019	5,00	-6,100	794,094	8,00	-3,600	793,894	8,00	793,283	793,176	793,606	0,323	3,600	793,318	-8,00	6,100	793,518	-8,00	7,600	793,443	5,00	8,160	793,025	-66,67
4012+0,000	-8,331	793,405	-66,670	-7,600	793,893	5,00	-6,100	793,968	8,00	-3,600	793,768	8,00	793,164	793,050	793,480	0,316	3,600	793,192	-8,00	6,100	793,392	-8,00	7,600	793,317	5,00	8,133	792,916	-66,67
4012+10,000	-8,189	793,357	-66,670	-7,600	793,750	5,00	-6,100	793,825	8,00	-3,600	793,625	8,00	793,096	792,907	793,337	0,241	3,600	793,049	-8,00	6,100	793,249	-8,00	7,600	793,174	5,00	8,038	792,837	-66,67
4012+10,794	-8,178	793,352	-66,670	-7,600	793,737	5,00	-6,100	793,812	8,00	-3,600	793,612	8,00	793,088	792,894	793,324	0,236	3,600	793,036	-8,00	6,100	793,236	-8,00	7,600	793,161	5,00	8,032	792,829	-66,67
4013+0,000	-8,012	793,275	-66,670	-7,600	793,550	5,00	-6,100	793,625	7,36	-3,600	793,441	7,36	792,985	792,746	793,176	0,191	3,600	792,911	-7,36	6,100	793,095	-7,36	7,600	793,020	5,00	7,983	792,729	-66,67
4013+10,000	-7,882	793,151	-66,670	-7,600	793,339	5,00	-6,100	793,414	6,68	-3,600	793,247	6,66	792,905	792,577	793,007	0,102	3,600	792,767	-6,66	6,100	792,934	-6,68	7,600	792,859	5,00	7,997	792,570	-66,67
4014+0,000	-7,724	793,045	-66,670	-7,600	793,128	5,00	-6,100	793,203	6,00	-3,600	793,053	5,97	792,771	792,408	792,838	0,067	3,600	792,624	-5,97	6,100	792,773	-5,96	7,600	792,698	5,00	8,018	792,405	-66,67
4014+10,000	-7,671	792,869	-66,670	-7,600	792,916	5,00	-6,100	792,991	5,28	-3,600	792,859	5,27	792,607	792,240	792,670	0,063	3,600	792,480	-5,27	6,100	792,612	-5,28	7,600	792,537	5,00	7,831	792,379	-66,67
4015+0,000	-7,934	792,739	100,000	-7,600	792,405	25,00	-6,100	792,780	4,60	-3,600	792,665	4,58	792,535	792,071	792,501	-0,034	3,600	792,336	-4,58	6,100	792,450	-4,56	7,600	792,375	5,00	7,888	792,189	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA PR-180

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
4015+10,000	-8,046	792,640	100,000	-7,600	792,194	25,00	-6,100	792,569	3,92	-3,600	792,471	3,88	792,285	791,902	792,332	0,047	3,600	792,192	-3,88	6,100	792,289	-3,88	7,600	792,214	5,00	7,794	792,102	-66,67
4016+0,000	-8,163	792,545	100,000	-7,600	791,982	25,00	-6,100	792,357	3,16	-3,600	792,278	3,19	792,110	791,733	792,163	0,053	3,600	792,048	-3,19	6,100	792,128	-3,20	7,600	792,053	5,00	7,954	791,844	-66,67
4016+10,000	-8,324	792,495	100,000	-7,600	791,771	25,00	-6,100	792,146	2,48	-3,600	792,084	2,49	791,935	791,564	791,994	0,059	3,600	791,904	-2,49	6,100	791,967	-2,52	7,600	791,892	5,00	8,290	791,469	-66,67
4017+0,000	-8,324	792,284	100,000	-7,600	791,560	25,00	-6,100	791,935	1,80	-3,600	791,890	1,79	791,832	791,395	791,825	-0,007	3,600	791,759	-1,83	6,100	791,804	-1,80	7,600	791,729	5,00	8,291	791,316	-66,67
4017+10,000	-8,413	792,161	100,000	-7,600	791,348	25,00	-6,100	791,723	1,08	-3,600	791,696	1,10	791,712	791,226	791,656	-0,056	3,600	791,615	-1,14	6,100	791,643	-1,12	7,600	791,568	5,00	8,199	791,227	-66,67
4018+0,000	-8,452	791,989	100,000	-7,600	791,137	25,00	-6,100	791,512	0,40	-3,600	791,502	0,40	791,536	791,057	791,487	-0,049	3,600	791,471	-0,44	6,100	791,482	-0,44	7,600	791,407	5,00	8,245	791,045	-66,67
4018+5,794	-8,478	791,892	100,000	-7,600	791,014	25,00	-6,100	791,389		-3,600	791,389		791,427	790,959	791,389	-0,038	3,600	791,388	-0,04	6,100	791,388		7,600	791,313	5,00	8,247	790,956	-66,67
4018+6,320	-8,479	791,883	100,000	-7,600	791,003	25,00	-6,100	791,378	-0,04	-3,600	791,379	-0,04	791,417	790,951	791,381	-0,036	3,600	791,381		6,100	791,380	0,04	7,600	791,305	5,00	8,246	790,949	-66,67
4018+10,000	-8,490	791,816	100,000	-7,600	790,926	25,00	-6,100	791,301	-0,28	-3,600	791,308	-0,29	791,345	790,888	791,318	-0,027	3,600	791,328	0,26	6,100	791,320	0,32	7,600	791,245	5,00	8,285	790,867	-66,67
4019+0,000	-8,412	791,526	100,000	-7,600	790,714	25,00	-6,100	791,089	-1,00	-3,600	791,114	-0,99	791,088	790,719	791,149	0,061	3,600	791,184	0,95	6,100	791,159	1,00	7,600	791,084	5,00	8,425	790,624	-66,67
4019+10,000	-8,307	791,210	100,000	-7,600	790,503	25,00	-6,100	790,878	-1,68	-3,600	790,920	-1,68	790,856	790,551	790,981	0,125	3,600	791,040	1,65	6,100	790,998	1,68	7,600	790,923	5,00	8,567	790,378	-66,67
4020+0,000	-8,208	790,901	100,000	-7,600	790,293	25,00	-6,100	790,668	-2,36	-3,600	790,727	-2,34	790,595	790,382	790,812	0,217	3,600	790,896	2,34	6,100	790,836	2,40	7,600	790,761	5,00	8,705	790,135	-66,67
4020+10,000	-8,163	790,644	100,000	-7,600	790,081	25,00	-6,100	790,456	-3,08	-3,600	790,533	-3,04	790,282	790,213	790,643	0,361	3,600	790,752	3,04	6,100	790,675	3,08	7,600	790,600	5,00	8,867	789,876	-66,67
4021+0,000	-8,070	790,340	100,000	-7,600	789,870	25,00	-6,100	790,245	-3,76	-3,600	790,339	-3,73	789,970	790,044	790,474	0,504	3,600	790,608	3,73	6,100	790,514	3,76	7,600	790,439	5,00	9,131	789,549	-66,67
4021+10,000	-7,926	789,975	100,000	-7,600	789,649	25,00	-6,100	790,024	-4,48	-3,600	790,136	-4,43	789,655	789,865	790,295	0,640	3,600	790,455	4,43	6,100	790,343	4,48	7,600	790,268	5,00	9,434	789,187	-66,67
4022+0,000	-7,979	789,771	100,000	-7,600	789,392	25,00	-6,100	789,767	-5,12	-3,600	789,895	-5,13	789,394	789,650	790,080	0,686	3,600	790,264	5,13	6,100	790,136	5,12	7,600	790,061	5,00	9,489	788,954	-66,67
4022+10,000	-8,149	789,645	100,000	-7,600	789,096	25,00	-6,100	789,471	-5,80	-3,600	789,616	-5,82	789,255	789,396	789,826	0,571	3,600	790,035	5,82	6,100	789,890	5,80	7,600	789,815	5,00	9,292	788,849	-66,67
4023+0,000	-8,479	789,639	100,000	-7,600	788,760	25,00	-6,100	789,135	-6,52	-3,600	789,298	-6,52	789,203	789,103	789,533	0,330	3,600	789,767	6,52	6,100	789,604	6,52	7,600	789,529	5,00	8,973	788,787	-66,67
4023+10,000	-8,880	789,666	100,000	-7,600	788,386	25,00	-6,100	788,761	-7,20	-3,600	788,941	-7,21	789,204	788,771	789,201	-0,003	3,600	789,461	7,21	6,100	789,280	7,24	7,600	789,205	5,00	8,566	788,744	-66,67
4024+0,000	-9,298	789,671	100,000	-7,600	787,973	25,00	-6,100	788,348	-7,92	-3,600	788,546	-7,91	789,195	788,400	788,830	-0,365	3,600	789,115	7,91	6,100	788,917	7,92	7,600	788,842	5,00	7,923	788,821	-66,67
4024+1,320	-9,358	789,674	100,000	-7,600	787,915	25,00	-6,100	788,290	-8,00	-3,600	788,490	-8,00	789,206	788,348	788,778	-0,428	3,600	789,066	8,00	6,100	788,866	8,00	7,600	788,791	5,00	7,821	788,839	-66,67
4024+10,000	-9,732	789,690	100,000	-7,600	787,558	25,00	-6,100	787,933	-8,00	-3,600	788,133	-8,00	789,311	787,991	788,421	-0,890	3,600	788,709	8,00	6,100	788,509	8,00	7,600	788,134	25,00	8,383	788,917	100,00
4025+0,000	-10,212	789,732	100,000	-7,600	787,119	25,00	-6,100	787,494	-8,00	-3,600	787,694	-8,00	789,395	787,552	787,982	-1,413	3,600	788,270	8,00	6,100	788,070	8,00	7,600	787,695	25,00	8,954	789,050	100,00
4025+10,000	-10,805	789,884	100,000	-7,600	786,679	25,00	-6,100	787,054	-8,00	-3,600	787,254	-8,00	789,462	787,112	787,542	-1,920	3,600	787,830	8,00	6,100	787,630	8,00	7,600	787,255	25,00	9,487	789,142	100,00
4025+10,731	-10,854	789,900	100,000	-7,600	786,647	25,00	-6,100	787,022	-8,00	-3,600	787,222	-8,00	789,468	787,080	787,510	-1,958	3,600	787,798	8,00	6,100	787,598	8,00	7,600	787,223	25,00	9,515	789,137	100,00
4026+0,000	-11,382	790,020	100,000	-7,600	786,238	25,00	-6,100	786,613	-8,00	-3,600	786,813	-8,00	789,555	786,671	787,101	-2,454	3,600	787,389	8,00	6,100	787,189	8,00	7,600	786,814	25,00	10,019	789,233	100,00
4026+10,000	-11,923	790,121	100,000	-7,600	785,798	25,00	-6,100	786,173	-8,00	-3,600	786,373	-8,00	789,689	786,231	786,661	-3,028	3,600	786,949	8,00	6,100	786,749	8,00	7,600	786,374	25,00	10,446	789,219	100,00
4027+0,000	-12,472	790,230	100,000	-7,600	785,357	25,00	-6,100	785,732	-8,00	-3,600	785,932	-8,00	789,775	785,790	786,220	-3,555	3,600	786,508	8,00	6,100	786,308	8,00	7,600	785,933	25,00	10,755	789,088	100,00
4027+0,143	-12,480	790,231	100,000	-7,600	785,351	25,00	-6,100	785,726	-8,00	-3,600	785,926	-8,00	789,773	785,784	786,214	-3,559	3,600	786,502	8,00	6,100	786,302	8,00	7,600	785,927	25,00	10,760	789,087	100,00
4027+10,000	-12,971	790,330	100,000	-7,600	784,959	25,00	-6,100	785,334	-7,32	-3,600	785,517	-7,31	789,684	785,350	785,780	-3,904	3,600	786,043	7,31	6,100	785,861	7,28	7,600	785,486	25,00	11,110	788,996	100,00
4028+0,000	-13,362	790,323	100,000	-7,600	784,561	25,00	-6,100	784,936	-6,60	-3,600	785,101	-6,62	789,852	784,910	785,340	-4,512	3,600	785,578	6,62	6,100	785,412	6,64	7,600	785,037	25,00	11,578	789,016	100,00
4028+10,000	-13,818	790,391	100,000	-7,600	784,174	25,00	-6,100	784,549	-5,92	-3,600	784,697	-5,92	789,980	784,480	784,910	-5,070	3,600	785,123	5,92	6,100	784,975	5,92	7,600	784,600	25,00	12,183	789,183	100,00
4029+0,000	-14,171	790,390	100,000	-7,600	783,819	25,00	-6,100	784,194	-5,24	-3,600	784,325	-5,23	790,050	784,083	784,513	-5,537	3,600	784,701	5,23	6,100	784,570	5,24	7,600	784,195	25,00	12,804	789,399	100,00
4029+10,000	-14,360	790,246	100,000	-7,600	783,486	25,00	-6,100	783,861	-5,00	-3,600	783,986	-4,53	790,019	783,719	784,149	-5,870	3,600	784,312	4,53	6,100	784,187	5,00	7,600	783,812	25,00	13,108	789,321	100,00
4030+0,000	-14,526	790,107	100,000	-7,600	783,181	25,00	-6,100	783,556	-5,00	-3,600	783,681	-3,84	789,936	783,389	783,819	-6,117	3,600	783,957	3,84	6,100	783,832	5,00	7,600	783,457	25,00	13,806	789,663	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RODOVIA PR-180

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
4030+10,000	-14,569	789,878	100,000	-7,600	782,909	25,00	-6,100	783,284	-5,00	-3,600	783,409	-3,14	789,989	783,092	783,522	-6,467	3,600	783,635	3,14	6,100	783,510	5,00	7,600	783,135	25,00	14,285	789,821	100,00
4031+0,000	-14,596	789,666	100,000	-7,600	782,671	25,00	-6,100	783,046	-5,00	-3,600	783,171	-2,44	789,775	782,829	783,259	-6,516	3,600	783,347	2,44	6,100	783,222	5,00	7,600	782,847	25,00	14,543	789,790	100,00
4031+10,000	-14,536	789,393	100,000	-7,600	782,457	25,00	-6,100	782,832	-5,00	-3,600	782,957	-2,00	789,522	782,599	783,029	-6,493	3,600	783,092	1,75	6,100	782,967	5,00	7,600	782,592	25,00	14,753	789,745	100,00
4032+0,000	-14,465	789,119	100,000	-7,600	782,254	25,00	-6,100	782,629	-5,00	-3,600	782,754	-2,00	789,276	782,396	782,826	-6,450	3,600	782,864	1,05	6,100	782,739	5,00	7,600	782,364	25,00	14,859	789,623	100,00
4032+10,000	-14,404	788,858	100,000	-7,600	782,054	25,00	-6,100	782,429	-5,00	-3,600	782,554	-2,00	789,026	782,196	782,626	-6,400	3,600	782,639	0,36	6,100	782,514	5,00	7,600	782,139	25,00	14,911	789,450	100,00
4032+15,143	-14,375	788,726	100,000	-7,600	781,951	25,00	-6,100	782,326	-5,01	-3,603	782,451	-2,00	788,951	782,093	782,523	-6,428	3,600	782,523		6,100	782,398	5,00	7,600	782,023	25,00	14,971	789,394	100,00
4033+0,000	-14,312	788,573	100,000	-7,603	781,864	25,00	-6,103	782,239	-4,98	-3,935	782,347	-2,00	788,881	781,996	782,426	-6,455	3,600	782,414	-0,34	6,097	782,289	5,01	7,597	781,914	25,00	15,014	789,331	100,00
4033+10,000	-14,312	788,373	100,000	-7,603	781,664	25,00	-6,103	782,039	-4,98	-3,935	782,147	-2,00	788,699	781,796	782,226	-6,473	3,600	782,214	-0,34	6,097	782,089	5,01	7,597	781,714	25,00	15,014	789,131	100,00
4034+0,000	-14,312	788,173	100,000	-7,603	781,464	25,00	-6,103	781,839	-4,98	-3,935	781,947	-2,00	788,489	781,596	782,026	-6,463	3,600	782,014	-0,34	6,097	781,889	5,01	7,597	781,514	25,00	15,014	788,931	100,00
4034+7,629	-14,312	788,021	100,000	-7,603	781,311	25,00	-6,103	781,686	-5,03	-3,935	781,795	-2,00	788,330	781,443	781,873	-6,457	3,600	781,861	-0,34	6,097	781,736	5,01	7,597	781,361	25,00	15,014	788,779	100,00

1.3.4 Rotatória Norte

NOTA DE SERVIÇO DE TERRAPLENAGEM - ROTATÓRIA NORTE																					
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO							
	OFFSET			FOLGA			OFFSET SUBBASE			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
10+0,000	-4,990	784,944	100,00	-1,500	781,454	25,00	-0,725	781,384	-2,00	785,075	781,399	781,829	-3,246							16,761	785,935	100,00
10+10,000	-5,308	785,212	100,00	-1,500	781,404	25,00	-0,725	781,334	-2,00	785,667	781,349	781,779	-3,888	6,499	780,053	-2,000	7,224	780,038	-2,00	17,252	786,376	100,00
11+0,000	-5,271	785,127	100,00	-1,500	781,356	25,00	-0,725	781,287	-2,00	785,490	781,301	781,731	-3,759	6,499	780,069	-2,000	7,224	780,054	-2,00	17,494	786,571	100,00
11+10,000	-4,953	784,811	100,00	-1,500	781,359	25,00	-0,725	781,289	-2,00	784,942	781,304	781,734	-3,208	6,500	780,279	-2,000	7,225	780,264	-2,00	16,448	785,527	100,00
12+0,000	-4,453	784,364	100,00	-1,500	781,411	25,00	-0,725	781,341	-2,00	784,335	781,356	781,786	-2,549	6,500	780,389	-2,000	7,225	780,374	-2,00	14,955	784,086	100,00
12+7,124	-4,062	784,012	100,00	-1,500	781,450	25,00	-0,725	781,380	-2,00	783,868	781,395	781,825	-2,043	6,526	780,557	-2,000	7,251	780,543	-2,00	14,033	783,203	100,00
12+10,000	-3,920	783,886	100,00	-1,500	781,466	25,00	-0,725	781,396	-2,00	783,707	781,411	781,841	-1,866	9,000	780,813	-2,000	9,725	780,799	-2,00	13,690	782,876	100,00
13+0,000	-3,572	783,592	100,00	-1,500	781,520	25,00	-0,725	781,451	-2,00	783,305	781,465	781,895	-1,410	9,000	781,119	-2,000	9,725	781,104	-2,00	12,925	782,165	100,00
13+10,000	-3,562	783,617	100,00	-1,500	781,555	25,00	-0,725	781,486	-2,00	783,373	781,500	781,930	-1,443	9,000	781,419	-2,000	9,725	781,405	-2,00	13,061	782,337	100,00
14+0,000	-4,097	784,122	100,00	-1,500	781,525	25,00	-0,725	781,455	-2,00	784,013	781,470	781,900	-2,113	9,000	781,695	-2,000	9,725	781,681	-2,00	14,956	783,955	100,00
14+10,000	-4,769	784,744	100,00	-1,500	781,475	25,00	-0,725	781,405	-2,00	784,786	781,420	781,850	-2,936	9,000	781,946	-2,000	9,725	781,932	-2,00	16,206	785,401	100,00
14+14,248	-4,991	784,944	100,00	-1,500	781,454	25,00	-0,725	781,384	-2,00	785,075	781,399	781,829	-3,246	9,000	782,193	-2,000	9,725	782,179	-2,00	16,761	785,935	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ROTATÓRIA NORTE																			
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
COLUNA	2	3	4	5	6	7					0,43		CORTE/ATERRO				17	18	19
10+0,000	-4,990	784,944	100,000	-1,500	781,454	25,00		781,829	-2,00	785,075	781,399	781,829	-3,246	11,000	782,049	2,00	16,761	785,935	100,00
10+10,000	-5,308	785,212	100,000	-1,500	781,404	25,00		781,779	-2,00	785,667	781,349	781,779	-3,888	11,000	781,999	2,00	17,252	786,376	100,00
11+0,000	-5,271	785,127	100,000	-1,500	781,356	25,00		781,731	-2,00	785,490	781,301	781,731	-3,759	11,000	781,951	2,00	17,494	786,571	100,00
11+10,000	-4,953	784,811	100,000	-1,500	781,359	25,00		781,734	-2,00	784,942	781,304	781,734	-3,208	11,000	781,954	2,00	16,448	785,527	100,00
12+0,000	-4,453	784,364	100,000	-1,500	781,411	25,00		781,786	-2,00	784,335	781,356	781,786	-2,549	11,000	782,006	2,00	14,955	784,086	100,00
12+7,124	-4,062	784,012	100,000	-1,500	781,450	25,00		781,825	-2,00	783,868	781,395	781,825	-2,043	11,000	782,045	2,00	14,033	783,203	100,00
12+10,000	-3,920	783,886	100,000	-1,500	781,466	25,00		781,841	-2,00	783,707	781,411	781,841	-1,866	11,000	782,061	2,00	13,690	782,876	100,00
13+0,000	-3,572	783,592	100,000	-1,500	781,520	25,00		781,895	-2,00	783,305	781,465	781,895	-1,410	11,000	782,115	2,00	12,925	782,165	100,00
13+10,000	-3,562	783,617	100,000	-1,500	781,555	25,00		781,930	-2,00	783,373	781,500	781,930	-1,443	11,000	782,150	2,00	13,061	782,337	100,00
14+0,000	-4,097	784,122	100,000	-1,500	781,525	25,00		781,900	-2,00	784,013	781,470	781,900	-2,113	11,251	782,125	2,00	14,956	783,955	100,00
14+10,000	-4,769	784,744	100,000	-1,500	781,475	25,00		781,850	-2,00	784,786	781,420	781,850	-2,936	11,000	782,070	2,00	16,206	785,401	100,00
14+14,248	-4,991	784,944	100,000	-1,500	781,454	25,00		781,829	-2,00	785,075	781,399	781,829	-3,246	11,000	782,049	2,00	16,761	785,935	100,00

1.3.5 Rotatória Sul

NOTA DE SERVIÇO DE TERRAPLENAGEM - ROTATÓRIA SUL																					
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO							
	OFFSET			FOLGA			OFFSET SUBBASE			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
19+20,000	-7,679	787,692	100,00	-1,500	781,513	25,00	-0,725	781,443	-2,00	787,420	781,458	781,888	-5,532	11,000	781,678	2,000	11,725	781,693	2,00	20,363	789,596	100,00
20+10,000	-7,521	787,584	100,00	-1,500	781,563	25,00	-0,725	781,493	-2,00	787,141	781,508	781,938	-5,203	11,000	781,728	2,000	11,725	781,743	2,00	17,147	786,430	100,00
20+20,000	-7,568	787,661	100,00	-1,500	781,593	25,00	-0,725	781,524	-2,00	787,324	781,538	781,968	-5,356	11,000	781,758	2,000	11,725	781,773	2,00	17,436	786,750	100,00
21+10,000	-7,846	787,904	100,00	-1,500	781,558	25,00	-0,725	781,489	-2,00	787,799	781,503	781,933	-5,866	11,000	781,723	2,000	11,725	781,738	2,00	18,559	787,837	100,00
21+20,000	-8,151	788,155	100,00	-1,500	781,504	25,00	-0,725	781,434	-2,00	788,306	781,449	781,879	-6,427	11,000	781,669	2,000	11,725	781,683	2,00	19,475	788,698	100,00
22+7,123	-8,151	788,116	100,00	-1,500	781,465	25,00	-0,725	781,395	-2,00	788,562	781,410	781,840	-6,722	11,000	781,630	2,000	11,725	781,644	2,00	19,475	788,659	100,00
22+10,000	-8,343	788,292	100,00	-1,500	781,449	25,00	-0,725	781,379	-2,00	788,636	781,394	781,824	-6,812	11,000	781,614	2,000	11,725	781,629	2,00	20,269	789,438	100,00
22+20,000	-8,410	788,307	100,00	-1,500	781,397	25,00	-0,725	781,327	-2,00	788,786	781,342	781,772	-7,014	11,000	781,562	2,000	11,725	781,576	2,00	20,801	789,918	100,00
23+10,000	-8,304	788,198	100,00	-1,500	781,394	25,00	-0,725	781,325	-2,00	788,616	781,339	781,769	-6,847	11,000	781,559	2,000	11,725	781,574	2,00	20,426	789,541	100,00
23+20,000	-8,060	788,002	100,00	-1,500	781,442	25,00	-0,725	781,372	-2,00	788,166	781,387	781,817	-6,349	11,599	781,619	2,000	12,324	781,633	2,00	20,102	788,677	100,00
24+10,000	-7,773	787,765	100,00	-1,500	781,492	25,00	-0,725	781,422	-2,00	787,670	781,437	781,867	-5,803	11,000	781,657	2,000	11,725	781,672	2,00	19,719	788,931	100,00
24+14,247	-7,773	787,786	100,00	-1,500	781,513	25,00	-0,725	781,444	-2,00	787,420	781,458	781,888	-5,532	11,000	781,678	2,000	11,725	781,693	2,00	19,719	788,952	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ROTATÓRIA SUL																			
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
19+20,000	-7,679	787,692	100,000	-1,500	781,513	25,00		781,888	-2,00	787,420	781,458	781,888	-5,532	11,000	782,108	2,00	20,363	789,596	100,00
20+10,000	-7,521	787,584	100,000	-1,500	781,563	25,00		781,938	-2,00	787,141	781,508	781,938	-5,203	11,000	782,158	2,00	17,147	786,430	100,00
20+20,000	-7,568	787,661	100,000	-1,500	781,593	25,00		781,968	-2,00	787,324	781,538	781,968	-5,356	11,000	782,188	2,00	17,436	786,750	100,00
21+10,000	-7,846	787,904	100,000	-1,500	781,558	25,00		781,933	-2,00	787,799	781,503	781,933	-5,866	11,000	782,153	2,00	18,559	787,837	100,00
21+20,000	-8,151	788,155	100,000	-1,500	781,504	25,00		781,879	-2,00	788,306	781,449	781,879	-6,427	11,000	782,099	2,00	19,475	788,698	100,00
22+7,123	-8,151	788,116	100,000	-1,500	781,465	25,00		781,840	-2,00	788,562	781,410	781,840	-6,722	11,000	782,060	2,00	19,475	788,659	100,00
22+10,000	-8,343	788,292	100,000	-1,500	781,449	25,00		781,824	-2,00	788,636	781,394	781,824	-6,812	11,000	782,044	2,00	20,269	789,438	100,00
22+20,000	-8,410	788,307	100,000	-1,500	781,397	25,00		781,772	-2,00	788,786	781,342	781,772	-7,014	11,000	781,992	2,00	20,801	789,918	100,00
23+10,000	-8,304	788,198	100,000	-1,500	781,394	25,00		781,769	-2,00	788,616	781,339	781,769	-6,847	11,000	781,989	2,00	20,426	789,541	100,00
23+20,000	-8,060	788,002	100,000	-1,500	781,442	25,00		781,817	-2,00	788,166	781,387	781,817	-6,349	11,599	782,049	2,00	20,102	788,677	100,00
24+10,000	-7,773	787,765	100,000	-1,500	781,492	25,00		781,867	-2,00	787,670	781,437	781,867	-5,803	11,000	782,087	2,00	19,719	788,931	100,00
24+14,247	-7,773	787,786	100,000	-1,500	781,513	25,00		781,888	-2,00	787,420	781,458	781,888	-5,532	11,000	782,108	2,00	19,719	788,952	100,00

1.3.6 Ramo 600

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 600																							
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO					
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
600+11,772	-10,347	782,899	100,00	-9,000	781,552	25,00	-8,225	781,512	2,00	-7,500	781,497	2,00	782,011	781,347	781,777	-0,234	0,725	781,333	-2,00	1,959	781,861	100,00
600+19,137	-10,066	782,469	100,00	-9,000	781,403	25,00	-8,225	781,363	2,00	-7,500	781,348	2,00	781,866	781,198	781,628	-0,238	0,725	781,184	-2,00	2,008	781,761	100,00
601+0,000	-10,046	782,443	100,00	-9,000	781,396	25,00	-8,225	781,356	2,00	-7,500	781,341	2,00	781,845	781,191	781,621	-0,224	0,725	781,177	-2,00	1,994	781,740	100,00
601+10,000	-9,652	782,125	100,00	-9,000	781,472	25,00	-8,225	781,432	2,00	-7,500	781,417	2,00	781,595	781,267	781,697	0,102	0,725	781,253	-2,00	1,746	781,504	-66,67
602+0,000	-9,172	782,025	-66,67	-9,000	782,140	5,00	-8,225	781,800	2,00	-7,500	781,785	2,00	781,568	781,635	782,065	0,497	0,725	781,621	-2,00	2,373	781,453	-66,67
602+10,000	-9,408	782,520	-66,67	-9,000	782,793	5,00	-8,225	782,452	2,00	-7,500	782,438	2,00	781,819	782,288	782,718	0,899	0,725	782,273	-2,00	3,101	781,621	-66,67
602+12,951	-9,541	782,674	-66,67	-9,000	783,035	5,00	-8,225	782,694	2,00	-7,500	782,680	2,30	781,880	782,507	782,937	1,057	0,725	782,493	-2,00	3,356	781,666	-66,67
603+0,000	-9,935	783,123	-66,67	-9,000	783,747	5,00	-8,225	783,406	2,00	-7,500	783,392	4,80	782,255	783,031	783,461	1,206	0,725	783,017	-2,00	3,515	782,046	-66,67
603+10,000	-9,796	783,974	-66,67	-9,000	784,505	5,00	-8,225	784,165	2,00	-7,500	784,150	5,00	783,033	783,775	784,205	1,172	0,725	783,761	-2,00	3,639	782,704	-66,67
603+16,835	-9,796	784,483	-66,67	-9,000	785,013	5,00	-8,225	784,673	2,00	-7,500	784,658	5,00	784,301	784,283	784,713	0,412	0,725	784,269	-2,00	3,639	783,212	-66,67
604+0,000	-9,049	785,216	-66,67	-9,000	785,249	5,00	-8,225	784,908	2,00	-7,500	784,894	5,00	784,793	784,519	784,949	0,156	0,725	784,504	-2,00	1,940	784,580	-66,67
604+10,000	-9,821	786,514	100,00	-9,000	785,692	25,00	-8,225	785,652	2,00	-7,500	785,637	5,00	786,075	785,262	785,692	-0,383	0,725	785,248	-2,00	2,180	785,997	100,00
605+0,000	-9,882	787,315	100,00	-9,000	786,433	25,00	-8,225	786,393	2,00	-7,500	786,378	5,00	787,110	786,003	786,433	-0,677	0,725	785,989	-2,00	2,349	786,907	100,00
605+10,000	-9,712	787,756	100,00	-9,000	787,044	25,00	-8,225	787,004	2,00	-7,500	786,989	5,00	787,321	786,614	787,044	-0,277	0,725	786,600	-2,00	2,059	787,228	100,00
606+0,000	-9,388	787,847	100,00	-9,000	787,459	25,00	-8,225	787,418	2,00	-7,500	787,404	5,00	787,528	787,029	787,459	-0,069	0,725	787,014	-2,00	1,902	787,485	100,00
606+10,000	-9,124	787,894	-66,67	-9,000	787,977	5,00	-8,225	787,636	2,00	-7,500	787,622	5,00	787,635	787,247	787,677	0,042	0,725	787,232	-2,00	1,531	787,581	-66,67
607+0,000	-9,124	787,916	-66,67	-9,000	787,999	5,00	-8,225	787,658	2,00	-7,500	787,644	5,00	787,732	787,269	787,699	-0,033	0,725	787,254	-2,00	1,531	787,603	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 600																
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO		
	OFFSET			FOLGA			BORDO PISTA			COTAS				OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)
600+11,772	-10,347	782,899	100,000	-9,000	781,552	25,00	-7,500	781,927	2,00	782,011	781,347	781,777	-0,234	1,959	781,861	100,00
600+19,137	-10,066	782,469	100,000	-9,000	781,403	25,00	-7,500	781,778	2,00	781,866	781,198	781,628	-0,238	2,008	781,761	100,00
601+0,000	-10,046	782,443	100,000	-9,000	781,396	25,00	-7,500	781,771	2,00	781,845	781,191	781,621	-0,224	1,994	781,740	100,00
601+10,000	-9,652	782,125	100,000	-9,000	781,472	25,00	-7,500	781,847	2,00	781,595	781,267	781,697	0,102	1,746	781,504	-66,67
602+0,000	-9,172	782,025	-66,670	-9,000	782,140	5,00	-7,500	782,215	2,00	781,568	781,635	782,065	0,497	2,373	781,453	-66,67
602+10,000	-9,408	782,520	-66,670	-9,000	782,793	5,00	-7,500	782,868	2,00	781,819	782,288	782,718	0,899	3,101	781,621	-66,67
602+12,951	-9,541	782,674	-66,670	-9,000	783,035	5,00	-7,500	783,110	2,30	781,880	782,507	782,937	1,057	3,356	781,666	-66,67
603+0,000	-9,935	783,123	-66,670	-9,000	783,747	5,00	-7,500	783,822	4,80	782,255	783,031	783,461	1,206	3,515	782,046	-66,67
603+10,000	-9,796	783,974	-66,670	-9,000	784,505	5,00	-7,500	784,580	5,00	783,033	783,775	784,205	1,172	3,639	782,704	-66,67
603+16,835	-9,796	784,483	-66,670	-9,000	785,013	5,00	-7,500	785,088	5,00	784,301	784,283	784,713	0,412	3,639	783,212	-66,67
604+0,000	-9,049	785,216	-66,670	-9,000	785,249	5,00	-7,500	785,324	5,00	784,793	784,519	784,949	0,156	1,940	784,580	-66,67
604+10,000	-9,821	786,514	100,000	-9,000	785,692	25,00	-7,500	786,067	5,00	786,075	785,262	785,692	-0,383	2,180	785,997	100,00
605+0,000	-9,882	787,315	100,000	-9,000	786,433	25,00	-7,500	786,808	5,00	787,110	786,003	786,433	-0,677	2,349	786,907	100,00
605+10,000	-9,712	787,756	100,000	-9,000	787,044	25,00	-7,500	787,419	5,00	787,321	786,614	787,044	-0,277	2,059	787,228	100,00
606+0,000	-9,388	787,847	100,000	-9,000	787,459	25,00	-7,500	787,834	5,00	787,528	787,029	787,459	-0,069	1,902	787,485	100,00
606+10,000	-9,124	787,894	-66,670	-9,000	787,977	5,00	-7,500	788,052	5,00	787,635	787,247	787,677	0,042	1,531	787,581	-66,67
607+0,000	-9,124	787,916	-66,670	-9,000	787,999	5,00	-7,500	788,074	5,00	787,732	787,269	787,699	-0,033	1,531	787,603	-66,67

1.3.7 Ramo 700

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 700																					
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO					
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
705+0,000	-9,370	788,680	100,00	-9,000	788,311	25,00	-8,225	788,270	2,00	-7,500	788,256	-0,29	787,900	788,278	788,708	0,808	0,725	788,263	-2,00	2,571	787,999	-66,67
705+7,189	-9,259	788,346	-66,67	-9,000	788,518	5,00	-8,225	788,177	2,00	-7,500	788,163	-2,04	788,198	788,316	788,746	0,548	0,725	788,301	-2,00	2,244	788,281	-66,67
705+10,000	-9,290	788,267	-66,67	-9,000	788,460	5,00	-8,225	788,119	2,00	-7,500	788,105	-2,72	788,255	788,309	788,739	0,484	0,725	788,295	-2,00	2,061	788,406	-66,67
706+0,000	-9,606	787,882	-66,67	-9,000	788,286	5,00	-8,225	787,945	2,00	-7,500	787,931	-3,40	788,009	788,186	788,616	0,607	0,725	788,171	-2,00	2,198	788,201	-66,67
706+10,000	-9,521	787,661	-66,67	-9,000	788,008	5,00	-8,225	787,668	2,00	-7,500	787,653	-3,40	788,046	787,908	788,338	0,292	0,725	787,894	-2,00	1,600	788,322	-66,67
706+16,847	-9,220	787,582	-66,67	-9,000	787,729	5,00	-8,225	787,388	2,00	-7,500	787,374	-3,40	788,320	787,629	788,059	-0,261	0,725	787,614	-2,00	2,474	788,658	100,00
707+0,000	-9,033	787,554	-66,67	-9,000	787,576	5,00	-8,225	787,235	2,00	-7,500	787,221	-3,40	788,440	787,476	787,906	-0,534	0,725	787,461	-2,00	2,675	788,706	100,00
707+10,000	-9,966	787,655	100,00	-9,000	786,689	25,00	-8,225	786,649	2,00	-7,500	786,634	-3,40	788,438	786,889	787,319	-1,119	0,725	786,875	-2,00	3,113	788,557	100,00
708+0,000	-10,644	787,624	100,00	-9,000	785,981	25,00	-8,225	785,940	2,00	-7,500	785,926	-3,40	788,040	786,181	786,611	-1,429	0,725	786,166	-2,00	3,432	788,167	100,00
708+6,505	-10,786	787,402	100,00	-9,000	785,615	25,00	-8,225	785,575	2,00	-7,500	785,560	-2,04	787,783	785,713	786,143	-1,640	0,725	785,699	-2,00	3,724	787,993	100,00
708+10,000	-10,824	787,252	100,00	-9,000	785,428	25,00	-8,225	785,388	2,00	-7,500	785,373	-1,19	787,660	785,463	785,893	-1,767	0,725	785,448	-2,00	3,869	787,886	100,00
709+0,000	-11,080	786,956	100,00	-9,000	784,876	25,00	-8,225	784,835	2,00	-7,500	784,821	1,02	787,307	784,744	785,174	-2,133	0,725	784,730	-2,00	4,290	787,589	100,00
709+10,000	-11,391	786,622	100,00	-9,000	784,231	25,00	-8,225	784,191	2,00	-7,500	784,176	2,00	787,057	784,026	784,456	-2,601	0,725	784,012	-2,00	4,773	787,355	100,00
710+0,000	-11,798	786,311	100,00	-9,000	783,513	25,00	-8,225	783,473	2,00	-7,500	783,458	2,00	786,901	783,308	783,738	-3,163	0,725	783,294	-2,00	5,349	787,213	100,00
710+10,000	-12,267	786,124	100,00	-9,000	782,857	25,00	-8,225	782,816	2,00	-7,500	782,802	2,00	786,653	782,652	783,082	-3,571	0,725	782,637	-2,00	5,812	787,019	100,00
711+0,000	-12,650	786,001	100,00	-9,000	782,351	25,00	-8,225	782,311	2,00	-7,500	782,296	2,00	786,681	782,146	782,576	-4,105	0,725	782,132	-2,00	6,304	787,005	100,00
711+10,000	-12,919	785,916	100,00	-9,000	781,997	25,00	-8,225	781,956	2,00	-7,500	781,942	2,00	786,717	781,792	782,222	-4,495	0,725	781,777	-2,00	6,788	787,135	100,00
712+0,000	-13,236	786,030	100,00	-9,000	781,794	25,00	-8,225	781,754	2,00	-7,500	781,739	2,00	786,896	781,589	782,019	-4,877	0,725	781,575	-2,00	7,249	787,393	100,00
712+1,096	-13,262	786,043	100,00	-9,000	781,781	25,00	-8,225	781,741	2,00	-7,500	781,726	2,00	786,917	781,576	782,006	-4,911	0,725	781,562	-2,00	7,273	787,405	100,00
712+10,000	-13,640	786,383	100,00	-9,000	781,743	25,00	-8,225	781,703	2,00	-7,500	781,688	2,00	787,130	781,538	781,968	-5,162	0,725	781,524	-2,00	7,363	787,457	100,00
712+15,399	-13,973	786,752	100,00	-9,000	781,779	25,00	-8,225	781,738	2,00	-7,500	781,724	2,00	787,146	781,574	782,004	-5,142	0,725	781,559	-2,00	7,390	787,518	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 700

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO		
	OFFSET			FOLGA			BORDO PISTA			COTAS				OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)
COLUNA	2	3	4	5	6	7					0,43		CORTE/ATERRO	17	18	19
705+0,000	-9,370	788,680	100,000	-9,000	788,311	25,00	-7,500	788,686	-0,29	787,900	788,278	788,708	0,808	2,571	787,999	-66,67
705+7,189	-9,259	788,346	-66,670	-9,000	788,518	5,00	-7,500	788,593	-2,04	788,198	788,316	788,746	0,548	2,244	788,281	-66,67
705+10,000	-9,290	788,267	-66,670	-9,000	788,460	5,00	-7,500	788,535	-2,72	788,255	788,309	788,739	0,484	2,061	788,406	-66,67
706+0,000	-9,606	787,882	-66,670	-9,000	788,286	5,00	-7,500	788,361	-3,40	788,009	788,186	788,616	0,607	2,198	788,201	-66,67
706+10,000	-9,521	787,661	-66,670	-9,000	788,008	5,00	-7,500	788,083	-3,40	788,046	787,908	788,338	0,292	1,600	788,322	-66,67
706+16,847	-9,220	787,582	-66,670	-9,000	787,729	5,00	-7,500	787,804	-3,40	788,320	787,629	788,059	-0,261	2,474	788,658	100,00
707+0,000	-9,033	787,554	-66,670	-9,000	787,576	5,00	-7,500	787,651	-3,40	788,440	787,476	787,906	-0,534	2,675	788,706	100,00
707+10,000	-9,966	787,655	100,000	-9,000	786,689	25,00	-7,500	787,064	-3,40	788,438	786,889	787,319	-1,119	3,113	788,557	100,00
708+0,000	-10,644	787,624	100,000	-9,000	785,981	25,00	-7,500	786,356	-3,40	788,040	786,181	786,611	-1,429	3,432	788,167	100,00
708+6,505	-10,786	787,402	100,000	-9,000	785,615	25,00	-7,500	785,990	-2,04	787,783	785,713	786,143	-1,640	3,724	787,993	100,00
708+10,000	-10,824	787,252	100,000	-9,000	785,428	25,00	-7,500	785,803	-1,19	787,660	785,463	785,893	-1,767	3,869	787,886	100,00
709+0,000	-11,080	786,956	100,000	-9,000	784,876	25,00	-7,500	785,251	1,02	787,307	784,744	785,174	-2,133	4,290	787,589	100,00
709+10,000	-11,391	786,622	100,000	-9,000	784,231	25,00	-7,500	784,606	2,00	787,057	784,026	784,456	-2,601	4,773	787,355	100,00
710+0,000	-11,798	786,311	100,000	-9,000	783,513	25,00	-7,500	783,888	2,00	786,901	783,308	783,738	-3,163	5,349	787,213	100,00
710+10,000	-12,267	786,124	100,000	-9,000	782,857	25,00	-7,500	783,232	2,00	786,653	782,652	783,082	-3,571	5,812	787,019	100,00
711+0,000	-12,650	786,001	100,000	-9,000	782,351	25,00	-7,500	782,726	2,00	786,681	782,146	782,576	-4,105	6,304	787,005	100,00
711+10,000	-12,919	785,916	100,000	-9,000	781,997	25,00	-7,500	782,372	2,00	786,717	781,792	782,222	-4,495	6,788	787,135	100,00
712+0,000	-13,236	786,030	100,000	-9,000	781,794	25,00	-7,500	782,169	2,00	786,896	781,589	782,019	-4,877	7,249	787,393	100,00
712+1,096	-13,262	786,043	100,000	-9,000	781,781	25,00	-7,500	782,156	2,00	786,917	781,576	782,006	-4,911	7,273	787,405	100,00
712+10,000	-13,640	786,383	100,000	-9,000	781,743	25,00	-7,500	782,118	2,00	787,130	781,538	781,968	-5,162	7,363	787,457	100,00
712+15,399	-13,973	786,752	100,000	-9,000	781,779	25,00	-7,500	782,154	2,00	787,146	781,574	782,004	-5,142	7,390	787,518	100,00

1.3.8 Ramo 800

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 600

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO					
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
801+0,000	-10,917	790,342	100,00	-10,500	789,925	25,00	-9,725	789,885	2,00	-9,000	789,870	2,00	790,125	789,690	790,120	-0,005	0,725	789,676	-2,00	1,568	790,044	-66,67
801+10,000	-10,843	790,494	100,00	-10,408	790,058	25,00	-9,633	790,018	2,00	-8,908	790,003	2,00	790,218	789,825	790,255	0,037	0,725	789,811	-2,00	1,604	790,156	-66,67
801+14,316	-10,740	790,572	100,00	-10,282	790,114	25,00	-9,507	790,074	2,00	-8,782	790,059	2,00	790,290	789,884	790,314	0,024	0,725	789,869	-2,00	1,562	790,242	-66,67
802+0,000	-10,562	790,661	100,00	-10,081	790,180	25,00	-9,307	790,140	2,00	-8,581	790,125	2,00	790,408	789,954	790,384	-0,024	0,725	789,939	-2,00	1,842	790,350	100,00
802+10,000	-10,367	790,737	100,00	-9,761	790,131	25,00	-8,986	790,091	2,00	-8,261	790,076	2,00	790,571	789,911	790,341	-0,230	0,725	789,897	-2,00	1,962	790,428	100,00
802+19,804	-10,354	790,718	100,00	-9,487	789,852	25,00	-8,712	789,811	2,00	-7,987	789,797	2,00	790,553	789,637	790,067	-0,486	0,725	789,622	-2,00	2,330	790,522	100,00
803+0,000	-10,357	790,719	100,00	-9,482	789,844	25,00	-8,707	789,803	2,00	-7,982	789,789	2,00	790,552	789,629	790,059	-0,493	0,725	789,615	-2,00	2,337	790,521	100,00
803+10,000	-10,722	790,795	100,00	-9,244	789,317	25,00	-8,469	789,277	2,00	-7,744	789,262	2,00	790,586	789,107	789,537	-1,049	0,725	789,093	-2,00	2,772	790,434	100,00
804+0,000	-11,229	790,747	100,00	-9,048	788,565	25,00	-8,273	788,525	2,00	-7,548	788,510	2,00	790,432	788,359	788,789	-1,643	0,725	788,345	-2,00	3,319	790,233	100,00
804+5,292	-11,546	790,687	100,00	-9,000	788,141	25,00	-8,225	788,101	2,00	-7,500	788,086	2,00	790,340	787,936	788,366	-1,974	0,725	787,922	-2,00	3,627	790,119	100,00
804+5,611	-11,546	790,662	100,00	-9,000	788,116	25,00	-8,225	788,075	2,00	-7,500	788,061	2,00	790,334	787,911	788,341	-1,993	0,725	787,896	-2,00	3,627	790,093	100,00
804+10,000	-11,880	790,644	100,00	-9,000	787,765	25,00	-8,225	787,724	2,00	-7,500	787,710	2,00	790,255	787,560	787,990	-2,265	0,725	787,545	-2,00	3,899	790,013	100,00
804+16,166	-11,880	790,151	100,00	-9,000	787,271	25,00	-8,225	787,231	2,00	-7,500	787,216	2,00	790,220	787,066	787,496	-2,724	0,725	787,052	-2,00	3,899	789,520	100,00
805+0,000	-12,639	790,604	100,00	-9,000	786,965	25,00	-8,225	786,924	2,00	-7,500	786,910	2,00	790,153	786,760	787,190	-2,963	0,725	786,745	-2,00	4,541	789,856	100,00
805+3,766	-12,915	790,594	100,00	-9,000	786,680	25,00	-8,225	786,639	2,00	-7,500	786,625	2,22	790,078	786,458	786,888	-3,190	0,725	786,444	-2,00	4,792	789,805	100,00
805+6,722	-12,915	790,358	100,00	-9,000	786,443	25,00	-8,225	786,403	2,00	-7,500	786,388	2,22	789,993	786,222	786,652	-3,341	0,725	786,207	-2,00	4,792	789,569	100,00
809+16,000	-13,604	786,194	100,00	-9,000	781,590	25,00	-8,225	781,549	2,00	-7,500	781,535	2,00	786,074	781,385	781,815	-4,259	0,725	781,370	-2,00	6,057	785,997	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 800																
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO		
	OFFSET			FOLGA			BORDO PISTA			COTAS				OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)
801+0,000	-10,917	790,342	100,000	-10,500	789,925	25,00	-9,000	790,300	2,00	790,125	789,690	790,120	-0,005	1,568	790,044	-66,67
801+10,000	-10,843	790,494	100,000	-10,408	790,058	25,00	-8,908	790,433	2,00	790,218	789,825	790,255	0,037	1,604	790,156	-66,67
801+14,316	-10,740	790,572	100,000	-10,282	790,114	25,00	-8,782	790,489	2,00	790,290	789,884	790,314	0,024	1,562	790,242	-66,67
802+0,000	-10,562	790,661	100,000	-10,081	790,180	25,00	-8,581	790,555	2,00	790,408	789,954	790,384	-0,024	1,842	790,350	100,00
802+10,000	-10,367	790,737	100,000	-9,761	790,131	25,00	-8,261	790,506	2,00	790,571	789,911	790,341	-0,230	1,962	790,428	100,00
802+19,804	-10,354	790,718	100,000	-9,487	789,852	25,00	-7,987	790,227	2,00	790,553	789,637	790,067	-0,486	2,330	790,522	100,00
803+0,000	-10,357	790,719	100,000	-9,482	789,844	25,00	-7,982	790,219	2,00	790,552	789,629	790,059	-0,493	2,337	790,521	100,00
803+10,000	-10,722	790,795	100,000	-9,244	789,317	25,00	-7,744	789,692	2,00	790,586	789,107	789,537	-1,049	2,772	790,434	100,00
804+0,000	-11,229	790,747	100,000	-9,048	788,565	25,00	-7,548	788,940	2,00	790,432	788,359	788,789	-1,643	3,319	790,233	100,00
804+5,292	-11,546	790,687	100,000	-9,000	788,141	25,00	-7,500	788,516	2,00	790,340	787,936	788,366	-1,974	3,627	790,119	100,00
804+5,611	-11,546	790,662	100,000	-9,000	788,116	25,00	-7,500	788,491	2,00	790,334	787,911	788,341	-1,993	3,627	790,093	100,00
804+10,000	-11,880	790,644	100,000	-9,000	787,765	25,00	-7,500	788,140	2,00	790,255	787,560	787,990	-2,265	3,899	790,013	100,00
804+16,166	-11,880	790,151	100,000	-9,000	787,271	25,00	-7,500	787,646	2,00	790,220	787,066	787,496	-2,724	3,899	789,520	100,00
805+0,000	-12,639	790,604	100,000	-9,000	786,965	25,00	-7,500	787,340	2,00	790,153	786,760	787,190	-2,963	4,541	789,856	100,00
805+3,766	-12,915	790,594	100,000	-9,000	786,680	25,00	-7,500	787,055	2,22	790,078	786,458	786,888	-3,190	4,792	789,805	100,00
805+6,722	-12,915	790,358	100,000	-9,000	786,443	25,00	-7,500	786,818	2,22	789,993	786,222	786,652	-3,341	4,792	789,569	100,00
805+10,000	-13,249	790,552	100,000	-9,000	786,303	25,00	-7,500	786,678	3,84	789,932	785,960	786,390	-3,542	5,072	789,587	100,00
805+15,166	-13,249	790,139	100,000	-9,000	785,890	25,00	-7,500	786,265	3,84	789,862	785,546	785,976	-3,886	5,072	789,174	100,00
806+0,000	-13,818	790,348	100,000	-9,000	785,530	25,00	-7,500	785,905	4,20	789,627	785,160	785,590	-4,037	5,532	789,247	100,00
806+10,000	-14,208	789,938	100,000	-9,000	784,730	25,00	-7,500	785,105	4,20	789,203	784,360	784,790	-4,413	6,043	788,957	100,00
806+10,665	-14,233	789,910	100,000	-9,000	784,677	25,00	-7,500	785,052	4,20	789,183	784,307	784,737	-4,446	6,077	788,938	100,00
807+0,000	-14,571	789,501	100,000	-9,000	783,930	25,00	-7,500	784,305	4,20	788,885	783,560	783,990	-4,895	6,516	788,631	100,00
807+6,164	-14,571	789,007	100,000	-9,000	783,437	25,00	-7,500	783,812	4,20	788,665	783,067	783,497	-5,168	6,516	788,138	100,00
807+10,000	-14,888	789,018	100,000	-9,000	783,129	25,00	-7,500	783,504	4,19	788,360	782,760	783,190	-5,170	6,922	788,237	100,00
807+14,608	-14,888	788,652	100,000	-9,000	782,763	25,00	-7,500	783,138	4,19	787,959	782,394	782,824	-5,135	6,922	787,871	100,00
807+17,564	-15,272	788,673	100,000	-9,000	782,401	25,00	-7,500	782,776	2,22	787,701	782,179	782,609	-5,092	6,868	787,602	100,00
808+0,000	-15,359	788,583	100,000	-9,000	782,224	25,00	-7,500	782,599	2,00	787,489	782,019	782,449	-5,040	6,816	787,390	100,00
808+5,164	-15,359	788,292	100,000	-9,000	781,933	25,00	-7,500	782,308	2,00	787,263	781,728	782,158	-5,105	6,816	787,099	100,00
808+10,000	-15,134	787,855	100,000	-9,000	781,722	25,00	-7,500	782,097	2,00	787,095	781,517	781,947	-5,148	7,056	787,128	100,00
808+15,719	-15,134	787,681	100,000	-9,000	781,548	25,00	-7,500	781,923	2,00	786,895	781,343	781,773	-5,122	7,056	786,954	100,00
809+0,000	-15,092	787,564	100,000	-9,000	781,472	25,00	-7,500	781,847	2,00	786,821	781,267	781,697	-5,124	6,886	786,708	100,00
809+8,086	-14,658	787,112	100,000	-9,000	781,454	25,00	-7,500	781,829	2,00	786,518	781,249	781,679	-4,839	6,587	786,391	100,00
809+10,000	-14,422	786,896	100,000	-9,000	781,474	25,00	-7,500	781,849	2,00	786,455	781,269	781,699	-4,756	6,491	786,315	100,00
809+16,000	-13,604	786,194	100,000	-9,000	781,590	25,00	-7,500	781,965	2,00	786,074	781,385	781,815	-4,259	6,057	785,997	100,00

1.3.9 Ramo 900

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 900																						
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO					
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
900+11,772	-15,992	788,417	100,00	-9,000	781,424	25,00	-8,225	781,384	2,00	-7,500	781,369	2,00	789,153	781,219	781,649	-7,504	0,725	781,205	-2,00	9,955	789,729	100,00
900+19,137	-16,519	788,804	100,00	-9,000	781,284	25,00	-8,225	781,244	2,00	-7,500	781,229	2,00	789,331	781,079	781,509	-7,822	0,725	781,065	-2,00	10,135	789,770	100,00
901+0,000	-16,564	788,840	100,00	-9,000	781,277	25,00	-8,225	781,236	2,00	-7,500	781,222	2,00	789,363	781,072	781,502	-7,861	0,725	781,057	-2,00	10,165	789,792	100,00
901+10,000	-16,940	789,263	100,00	-9,000	781,323	25,00	-8,225	781,282	2,00	-7,500	781,268	2,00	789,729	781,118	781,548	-8,181	0,725	781,103	-2,00	10,410	790,083	100,00
902+0,000	-16,910	789,527	100,00	-9,000	781,617	25,00	-8,225	781,577	2,00	-7,500	781,562	2,00	790,093	781,412	781,842	-8,251	0,725	781,398	-2,00	10,496	790,463	100,00
902+8,063	-16,623	789,658	100,00	-9,000	782,035	25,00	-8,225	781,995	2,00	-7,500	781,980	2,00	790,356	781,830	782,260	-8,096	0,725	781,816	-2,00	10,335	790,720	100,00
902+10,000	-16,551	789,710	100,00	-9,000	782,160	25,00	-8,225	782,119	2,00	-7,500	782,105	2,00	790,418	781,955	782,385	-8,033	0,725	781,940	-2,00	10,274	790,784	100,00
903+0,000	-16,319	790,209	100,00	-9,000	782,890	25,00	-8,225	782,850	2,00	-7,500	782,835	2,00	790,749	782,685	783,115	-7,634	0,725	782,671	-2,00	9,848	791,088	100,00
903+5,287	-16,156	790,438	100,00	-9,000	783,282	25,00	-8,225	783,242	2,00	-7,500	783,227	2,00	790,918	783,077	783,507	-7,411	0,725	783,063	-2,00	9,583	791,216	100,00
903+10,000	-15,954	790,586	100,00	-9,000	783,632	25,00	-8,225	783,592	2,00	-7,500	783,577	2,00	791,062	783,427	783,857	-7,205	0,725	783,413	-2,00	9,349	791,331	100,00
904+0,000	-15,308	790,682	100,00	-9,000	784,374	25,00	-8,225	784,334	2,00	-7,500	784,319	2,00	791,336	784,169	784,599	-6,737	0,725	784,155	-2,00	8,819	791,543	100,00
904+2,511	-15,134	790,695	100,00	-9,000	784,561	25,00	-8,225	784,520	2,00	-7,500	784,506	2,00	791,405	784,356	784,786	-6,619	0,725	784,341	-2,00	8,686	791,597	100,00
904+10,000	-14,656	790,773	100,00	-9,000	785,116	25,00	-8,225	785,076	2,00	-7,500	785,061	2,00	791,611	784,911	785,341	-6,270	0,725	784,897	-2,00	8,317	791,783	100,00
905+0,000	-14,013	790,871	100,00	-9,000	785,858	25,00	-8,225	785,818	2,00	-7,500	785,803	2,00	791,822	785,653	786,083	-5,739	0,725	785,639	-2,00	7,771	791,979	100,00
905+10,000	-13,277	790,878	100,00	-9,000	786,600	25,00	-8,225	786,560	2,00	-7,500	786,545	2,00	792,010	786,395	786,825	-5,185	0,725	786,381	-2,00	7,203	792,154	100,00
906+0,000	-12,538	790,880	100,00	-9,000	787,342	25,00	-8,225	787,302	2,00	-7,500	787,287	2,00	792,070	787,137	787,567	-4,503	0,725	787,123	-2,00	6,505	792,198	100,00
906+10,000	-11,793	790,877	100,00	-9,000	788,084	25,00	-8,225	788,044	2,00	-7,500	788,029	2,00	792,009	787,879	788,309	-3,700	0,725	787,865	-2,00	5,752	792,186	100,00
907+0,000	-10,989	790,796	100,00	-9,000	788,807	25,00	-8,225	788,766	2,00	-7,500	788,752	2,00	791,970	788,602	789,032	-2,938	0,725	788,587	-2,00	5,084	792,241	100,00
907+10,000	-10,404	790,818	100,00	-9,000	789,413	25,00	-8,225	789,373	2,00	-7,500	789,358	2,00	791,918	789,208	789,638	-2,280	0,725	789,194	-2,00	4,438	792,202	100,00
908+0,000	-9,965	790,857	100,00	-9,000	789,892	25,00	-8,225	789,852	2,00	-7,500	789,837	2,00	791,824	789,687	790,117	-1,707	0,725	789,673	-2,00	3,865	792,107	100,00
908+10,000	-9,417	790,661	100,00	-9,000	790,244	25,00	-8,225	790,203	2,00	-7,500	790,189	2,00	791,799	790,039	790,469	-1,330	0,725	790,024	-2,00	3,401	791,995	100,00
909+0,000	-9,322	790,789	100,00	-9,000	790,467	25,00	-8,225	790,427	2,00	-7,500	790,412	2,00	791,739	790,262	790,692	-1,047	0,725	790,248	-2,00	3,094	791,911	100,00
909+7,294	-9,322	790,872	100,00	-9,000	790,550	25,00	-8,225	790,509	2,00	-7,500	790,495	2,00	791,649	790,345	790,775	-0,874	0,725	790,330	-2,00	3,094	791,994	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 900

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO		
	OFFSET			FOLGA			BORDO PISTA			COTAS				OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)
900+11,772	-15,992	788,417	100,000	-9,000	781,424	25,00	-7,500	781,799	2,00	789,153	781,219	781,649	-7,504	9,955	789,729	100,00
900+19,137	-16,519	788,804	100,000	-9,000	781,284	25,00	-7,500	781,659	2,00	789,331	781,079	781,509	-7,822	10,135	789,770	100,00
901+0,000	-16,564	788,840	100,000	-9,000	781,277	25,00	-7,500	781,652	2,00	789,363	781,072	781,502	-7,861	10,165	789,792	100,00
901+10,000	-16,940	789,263	100,000	-9,000	781,323	25,00	-7,500	781,698	2,00	789,729	781,118	781,548	-8,181	10,410	790,083	100,00
902+0,000	-16,910	789,527	100,000	-9,000	781,617	25,00	-7,500	781,992	2,00	790,093	781,412	781,842	-8,251	10,496	790,463	100,00
902+8,063	-16,623	789,658	100,000	-9,000	782,035	25,00	-7,500	782,410	2,00	790,356	781,830	782,260	-8,096	10,335	790,720	100,00
902+10,000	-16,551	789,710	100,000	-9,000	782,160	25,00	-7,500	782,535	2,00	790,418	781,955	782,385	-8,033	10,274	790,784	100,00
903+0,000	-16,319	790,209	100,000	-9,000	782,890	25,00	-7,500	783,265	2,00	790,749	782,685	783,115	-7,634	9,848	791,088	100,00
903+5,287	-16,156	790,438	100,000	-9,000	783,282	25,00	-7,500	783,657	2,00	790,918	783,077	783,507	-7,411	9,583	791,216	100,00
903+10,000	-15,954	790,586	100,000	-9,000	783,632	25,00	-7,500	784,007	2,00	791,062	783,427	783,857	-7,205	9,349	791,331	100,00
904+0,000	-15,308	790,682	100,000	-9,000	784,374	25,00	-7,500	784,749	2,00	791,336	784,169	784,599	-6,737	8,819	791,543	100,00
904+2,511	-15,134	790,695	100,000	-9,000	784,561	25,00	-7,500	784,936	2,00	791,405	784,356	784,786	-6,619	8,686	791,597	100,00
904+10,000	-14,656	790,773	100,000	-9,000	785,116	25,00	-7,500	785,491	2,00	791,611	784,911	785,341	-6,270	8,317	791,783	100,00
905+0,000	-14,013	790,871	100,000	-9,000	785,858	25,00	-7,500	786,233	2,00	791,822	785,653	786,083	-5,739	7,771	791,979	100,00
905+10,000	-13,277	790,878	100,000	-9,000	786,600	25,00	-7,500	786,975	2,00	792,010	786,395	786,825	-5,185	7,203	792,154	100,00
906+0,000	-12,538	790,880	100,000	-9,000	787,342	25,00	-7,500	787,717	2,00	792,070	787,137	787,567	-4,503	6,505	792,198	100,00
906+10,000	-11,793	790,877	100,000	-9,000	788,084	25,00	-7,500	788,459	2,00	792,009	787,879	788,309	-3,700	5,752	792,186	100,00
907+0,000	-10,989	790,796	100,000	-9,000	788,807	25,00	-7,500	789,182	2,00	791,970	788,602	789,032	-2,938	5,084	792,241	100,00
907+10,000	-10,404	790,818	100,000	-9,000	789,413	25,00	-7,500	789,788	2,00	791,918	789,208	789,638	-2,280	4,438	792,202	100,00
908+0,000	-9,965	790,857	100,000	-9,000	789,892	25,00	-7,500	790,267	2,00	791,824	789,687	790,117	-1,707	3,865	792,107	100,00
908+10,000	-9,417	790,661	100,000	-9,000	790,244	25,00	-7,500	790,619	2,00	791,799	790,039	790,469	-1,330	3,401	791,995	100,00
909+0,000	-9,322	790,789	100,000	-9,000	790,467	25,00	-7,500	790,842	2,00	791,739	790,262	790,692	-1,047	3,094	791,911	100,00
909+7,294	-9,322	790,872	100,000	-9,000	790,550	25,00	-7,500	790,925	2,00	791,649	790,345	790,775	-0,874	3,094	791,994	100,00

1.3.10 Marginal Esquerda 2000

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL RODOVIA BR-277																														
Estaca	LADO ESQUERDO											EIXO				LADO DIREITO														
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			PASSEIO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2020+0,000	-6,504	772,022	-66,67%	-6,130	772,271		-4,750	772,271	-18,00%	-4,500	771,716	2,00%	772,037	771,626	772,051	0,014	4,500	771,536	-2,00%	4,750	772,091	33,91%	6,630	772,129	2,00%	7,63	772,13		7,894	771,953	-66,67%
2020+10,000	-6,337	772,284	-66,67%	-6,130	772,422		-4,750	772,422	-18,00%	-4,500	771,867	2,00%	772,126	771,777	772,202	0,076	4,500	771,687	-2,00%	4,750	772,242	33,91%	6,630	772,280	2,00%	7,63	772,28		8,087	771,975	-66,67%
2020+11,464	-6,349	772,298	-66,67%	-6,130	772,444		-4,750	772,444	-18,00%	-4,500	771,889	2,00%	772,139	771,799	772,224	0,085	4,500	771,709	-2,00%	4,750	772,264	33,91%	6,630	772,302	2,00%	7,63	772,30		8,069	772,009	-66,67%
2021+0,000	-6,409	772,387	-66,67%	-6,130	772,573		-4,750	772,573	-18,00%	-4,500	772,018	2,00%	772,219	771,928	772,353	0,134	4,500	771,838	-2,00%	4,750	772,393	33,91%	6,630	772,431	2,00%	7,63	772,43		8,066	772,140	-66,67%
2021+2,075	-6,409	772,418	-66,67%	-6,130	772,604		-4,750	772,604	-18,00%	-4,500	772,049	2,00%	772,239	771,959	772,384	0,145	4,500	771,869	-2,00%	4,750	772,424	33,91%	6,630	772,462	2,00%	7,63	772,46		8,149	772,116	-66,67%
2021+10,000	-6,369	772,564	-66,67%	-6,130	772,724		-4,750	772,724	-18,00%	-4,500	772,169	2,00%	772,375	772,079	772,504	0,129	4,500	771,989	-2,00%	4,750	772,544	33,91%	6,630	772,582	2,00%	7,63	772,58		8,061	772,294	-66,67%
2021+12,687	-6,330	772,631	-66,67%	-6,130	772,765		-4,750	772,765	-18,00%	-4,500	772,210	2,00%	772,504	772,120	772,545	0,041	4,500	772,030	-2,00%											
2022+0,000	-6,233	772,807	-66,67%	-6,130	772,875		-4,750	772,875	-18,00%	-4,500	772,320	2,00%	772,962	772,230	772,655	-0,307	4,500	772,140	-2,00%											
2022+10,000	-6,496	773,116	100,00%	-6,130	772,750	20,00%	-4,750	773,026	-18,00%	-4,500	772,471	2,00%	773,028	772,381	772,806	-0,222	4,500	772,291	-2,00%											
2023+0,000	-6,166	773,153	-66,67%	-6,130	773,177		-4,750	773,177	-18,00%	-4,500	772,622	2,00%	773,123	772,532	772,957	-0,166	4,500	772,442	-2,00%											
2023+10,000										-4,500	772,773	2,00%	773,253	772,683	773,108	-0,145	4,500	772,593	-2,00%	4,750	773,148	33,91%	6,630	773,186	2,00%	7,63	772,99	20,00%	8,009	773,365	100,00%
2024+0,000										-4,500	772,924	2,00%	773,394	772,834	773,259	-0,135	4,500	772,744	-2,00%	4,750	773,299	33,91%	6,630	773,336	2,00%	7,63	773,14	20,00%	7,918	773,425	100,00%
2024+10,000										-4,500	773,075	2,00%	773,626	772,985	773,410	-0,216	4,500	772,895	-2,00%	4,750	773,450	33,91%	6,630	773,487	2,00%	7,63	773,29	20,00%	8,033	773,690	100,00%
2025+0,000										-4,500	773,226	2,00%	773,768	773,136	773,561	-0,207	4,500	773,046	-2,00%	4,750	773,601	33,91%	6,630	773,638	2,00%	7,63	773,44	20,00%	8,018	773,826	100,00%
2025+10,000										-4,500	773,377	2,00%	774,004	773,287	773,712	-0,292	4,500	773,197	-2,00%	4,750	773,752	33,91%	6,630	773,789	2,00%	7,63	773,59	20,00%	8,042	774,002	100,00%
2026+0,000										-4,500	773,528	2,00%	774,169	773,438	773,863	-0,306	4,500	773,348	-2,00%	4,750	773,903	33,91%	6,630	773,940	2,00%	7,63	773,74	20,00%	7,984	774,095	100,00%
2026+10,000	-6,418	774,246	100,00%	-6,130	773,958	20,00%	-4,750	774,234	-18,00%	-4,500	773,679	2,00%	774,230	773,589	774,014	-0,216	4,500	773,499	-2,00%	4,750	774,054	33,91%	6,630	774,091	2,00%	7,63	773,89	20,00%	8,014	774,275	100,00%
2027+0,000	-6,160	774,365	-66,67%	-6,130	774,385		-4,750	774,385	-18,00%	-4,500	773,830	2,00%	774,347	773,740	774,165	-0,182	4,500	773,650	-2,00%	4,750	774,205	33,91%	6,630	774,242	2,00%	7,63	774,04	20,00%	7,952	774,365	100,00%
2027+10,000	-6,170	774,509	-66,67%	-6,130	774,536		-4,750	774,536	-18,00%	-4,500	773,981	2,00%	774,520	773,891	774,316	-0,204	4,500	773,801	-2,00%	4,750	774,356	33,91%	6,630	774,393	2,00%	7,63	774,19	20,00%	8,042	774,605	100,00%
2028+0,000	-6,228	774,621	-66,67%	-6,130	774,687		-4,750	774,687	-18,00%	-4,500	774,132	2,00%	774,655	774,042	774,467	-0,188	4,500	773,952	-2,00%	4,750	774,507	33,91%	6,630	774,544	2,00%	7,63	774,34	20,00%	8,054	774,769	100,00%
2028+10,000	-6,304	774,722	-66,67%	-6,130	774,838		-4,750	774,838	-18,00%	-4,500	774,283	2,00%	774,729	774,193	774,618	-0,111	4,500	774,103	-2,00%	4,750	774,658	33,91%	6,630	774,695	2,00%	7,63	774,50	20,00%	7,869	774,734	100,00%
2029+0,000	-6,401	774,808	-66,67%	-6,130	774,989		-4,750	774,989	-18,00%	-4,500	774,434	2,00%	774,846	774,344	774,769	-0,077	4,500	774,254	-2,00%	4,750	774,809	33,91%	6,630	774,846	2,00%	7,63	774,65	20,00%	7,884	774,900	100,00%
2029+10,000	-6,536	774,869	-66,67%	-6,130	775,140		-4,750	775,140	-18,00%	-4,500	774,585	2,00%	774,932	774,495	774,920	-0,012	4,500	774,405	-2,00%	4,750	774,960	33,91%	6,630	774,997	2,00%	7,63	774,80	20,00%	7,869	775,036	100,00%
2030+0,000	-6,516	775,034	-66,67%	-6,130	775,291		-4,750	775,291	-18,00%	-4,500	774,736	2,00%	775,021	774,646	775,071	0,050	4,500	774,556	-2,00%	4,750	775,111	33,91%	6,630	775,148	2,00%	7,63	775,15		7,666	775,124	-66,67%
2030+10,000	-6,537	775,171	-66,67%	-6,130	775,442		-4,750	775,442	-18,00%	-4,500	774,887	2,00%	775,178	774,797	775,222	0,044	4,500	774,707	-2,00%	4,750	775,262	33,91%	6,630	775,299	2,00%	7,63	775,30				
2031+0,000	-6,647	775,248	-66,67%	-6,130	775,593		-4,750	775,593	-18,00%	-4,500	775,038	2,00%	775,383	774,948	775,373	-0,010	4,500	774,858	-2,00%	4,750	775,413	33,91%	6,630	775,450	2,00%	7,63	775,45		7,668	775,425	-66,67%
2031+10,000	-6,724	775,335	-66,67%	-6,130	775,731		-4,750	775,731	-18,00%	-4,500	775,176	2,00%	775,337	775,086	775,511	0,174	4,500	774,996	-2,00%	4,750	775,551	33,91%	6,630	775,589	2,00%	7,63	775,59		7,821	775,461	-66,67%
2032+0,000	-6,650	775,475	-66,67%	-6,130	775,822		-4,750	775,822	-18,00%	-4,500	775,267	2,00%	775,557	775,177	775,602	0,045	4,500	775,087	-2,00%	4,750	775,642	33,91%	6,630	775,679	2,00%	7,63	775,48	20,00%	8,007	775,856	100,00%

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO														
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			PASSEIO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2032+10,000	-6,702	775,493	-66,67%	-6,130	775,874		-4,750	775,874	-18,00%	-4,500	775,319	2,00%	775,523	775,229	775,654	0,131	4,500	775,139	-2,00%	4,750	775,694	33,91%	6,630	775,732	2,00%	7,63	775,53	20,00%	7,943	775,844	100,00%
2033+0,000	-6,639	775,584	-66,67%	-6,130	775,924		-4,750	775,924	-18,00%	-4,500	775,369	2,00%	775,714	775,279	775,704	-0,010	4,500	775,189	-2,00%	4,750	775,744	33,91%	6,630	775,782	2,00%	7,63	775,58	20,00%	8,179	776,131	100,00%
2033+10,000	-6,624	775,645	-66,67%	-6,130	775,974		-4,750	775,974	-18,00%	-4,500	775,419	2,00%	775,663	775,329	775,754	0,091	4,500	775,239	-2,00%	4,750	775,794	33,91%	6,630	775,832	2,00%	7,63	775,63	20,00%	7,989	775,991	100,00%
2034+0,000	-6,604	775,706	-66,67%	-6,130	776,022		-4,750	776,022	-18,00%	-4,500	775,467	2,00%	775,714	775,377	775,802	0,088	4,500	775,287	-2,00%	4,750	775,842	33,91%	6,630	775,879	2,00%	7,63	775,68	20,00%	7,884	775,933	100,00%
2034+10,000	-6,610	775,727	-66,67%	-6,130	776,047		-4,750	776,047	-18,00%	-4,500	775,492	2,00%	775,747	775,402	775,827	0,080	4,500	775,312	-2,00%	4,750	775,867	33,91%	6,630	775,905	2,00%	7,63	775,91		7,659	775,885	-66,67%
2035+0,000	-6,477	775,813	-66,67%	-6,130	776,044		-4,750	776,044	-18,00%	-4,500	775,489	2,00%	775,799	775,399	775,824	0,025	4,500	775,309	-2,00%	4,750	775,864	33,91%	6,630	775,902	2,00%	7,63	775,70	20,00%	7,925	775,997	100,00%
2035+10,000	-6,479	775,781	-66,67%	-6,130	776,014		-4,750	776,014	-18,00%	-4,500	775,459	2,00%	775,832	775,369	775,794	-0,038	4,500	775,279	-2,00%	4,750	775,834	33,91%	6,630	775,872	2,00%	7,63	775,67	20,00%	7,888	775,930	100,00%
2036+0,000	-6,327	775,825	-66,67%	-6,130	775,957		-4,750	775,957	-18,00%	-4,500	775,402	2,00%	775,853	775,312	775,737	-0,116	4,500	775,222	-2,00%	4,750	775,777	33,91%	6,630	775,814	2,00%	7,63	775,61	20,00%	8,275	776,259	100,00%
2036+10,000	-6,242	775,797	-66,67%	-6,130	775,871		-4,750	775,871	-18,00%	-4,500	775,316	2,00%	775,918	775,226	775,651	-0,267	4,500	775,136	-2,00%	4,750	775,691	33,91%	6,630	775,729	2,00%	7,63	775,53	20,00%	8,157	776,056	100,00%
2037+0,000	-6,473	775,825	100,00%	-6,130	775,482	20,00%	-4,750	775,758	-18,00%	-4,500	775,203	2,00%	775,880	775,113	775,538	-0,342	4,500	775,023	-2,00%												
2037+10,000	-6,580	775,791	100,00%	-6,130	775,342	20,00%	-4,750	775,618	-18,00%	-4,500	775,063	2,00%	775,953	774,973	775,398	-0,555	4,500	774,883	-2,00%												
2038+0,000	-6,766	775,809	100,00%	-6,130	775,173	20,00%	-4,750	775,449	-18,00%	-4,500	774,894	2,00%	775,939	774,804	775,229	-0,710	4,500	774,714	-2,00%												
2038+4,747	-6,848	775,802	100,00%	-6,130	775,084	20,00%	-4,750	775,360	-18,00%	-4,500	774,805	2,00%	775,959	774,715	775,140	-0,819	4,500	774,625	-2,00%	4,750	775,180	33,91%	6,630	775,217	2,00%	7,63	775,02	20,00%	8,660	776,048	100,00%
2038+10,000	-6,945	775,792	100,00%	-6,130	774,978	20,00%	-4,750	775,254	-18,00%	-4,500	774,699	2,00%	775,983	774,609	775,034	-0,949	4,500	774,519	-2,00%	4,750	775,074	33,91%	6,630	775,111	2,00%	7,63	774,91	20,00%	8,793	776,074	100,00%
2039+0,000	-6,773	775,399	100,00%	-6,130	774,756	20,00%	-4,750	775,032	-18,00%	-4,500	774,477	2,00%	776,029	774,387	774,812	-1,217	4,500	774,297	-2,00%												
2039+10,000	-6,441	774,841	100,00%	-6,130	774,530	20,00%	-4,750	774,806	-18,00%	-4,500	774,251	2,00%	776,143	774,161	774,586	-1,557	4,500	774,071	-2,00%												
2040+0,000	-6,567	774,740	100,00%	-6,130	774,304	20,00%	-4,750	774,580	-18,00%	-4,500	774,025	2,00%	774,757	773,935	774,360	-0,397	4,500	773,845	-2,00%												
2040+10,000										-4,500	773,798	2,00%	774,612	773,708	774,133	-0,479	4,500	773,618	-2,00%	4,750	774,173	33,91%	6,630	774,211	2,00%	7,63	774,01	20,00%	9,647	776,028	100,00%
2041+0,000										-4,500	773,572	2,00%	774,447	773,482	773,907	-0,540	4,500	773,392	-2,00%	4,750	773,947	33,91%	6,630	773,985	2,00%	7,63	773,79	20,00%	9,733	775,887	100,00%
2041+10,000										-4,500	773,346	2,00%	774,483	773,256	773,681	-0,802	4,500	773,166	-2,00%	4,750	773,721	33,91%	6,630	773,759	2,00%	7,63	773,56	20,00%	9,856	775,785	100,00%
2041+16,992										-4,500	773,188	2,00%	774,476	773,098	773,523	-0,953	4,500	773,008	-2,00%	4,750	773,563	33,91%	6,630	773,600	2,00%	7,63	773,40	20,00%	9,984	775,754	100,00%
2042+0,000										-4,500	773,120	2,00%	774,470	773,030	773,455	-1,015	4,500	772,940	-2,00%	4,750	773,495	33,91%	6,630	773,532	2,00%	7,63	773,33	20,00%	9,903	775,606	100,00%
2042+10,000										-4,500	772,893	2,00%	774,456	772,803	773,228	-1,228	4,500	772,713	-2,00%	4,750	773,268	33,91%	6,630	773,306	2,00%	7,63	773,11	20,00%	9,949	775,425	100,00%
2043+0,000										-4,500	772,667	2,00%	774,255	772,577	773,002	-1,253	4,500	772,487	-2,00%	4,750	773,042	33,91%	6,630	773,080	2,00%	7,63	772,88	20,00%	9,980	775,230	100,00%
2043+10,000										-4,500	772,441	2,00%	774,077	772,351	772,776	-1,301	4,500	772,261	-2,00%	4,750	772,816	33,91%	6,630	772,854	2,00%	7,63	772,65	20,00%	9,829	774,852	100,00%
2044+0,000	-7,032	773,396	100,00%	-6,130	772,494	20,00%	-4,750	772,770	-18,00%	-4,500	772,215	2,00%	773,849	772,125	772,550	-1,299	4,500	772,035	-2,00%												
2044+10,000	-7,022	773,159	100,00%	-6,130	772,267	20,00%	-4,750	772,543	-18,00%	-4,500	771,988	2,00%	773,517	771,898	772,323	-1,194	4,500	771,808	-2,00%												
2045+0,000	-7,043	772,954	100,00%	-6,130	772,041	20,00%	-4,750	772,317	-18,00%	-4,500	771,762	2,00%	773,141	771,672	772,097	-1,044	4,500	771,582	-2,00%	4,750	772,137	33,91%	6,630	772,175	2,00%	7,63	771,98	20,00%	8,859	773,204	100,00%
2045+9,237	-7,056	772,758	100,00%	-6,130	771,832	20,00%	-4,750	772,108	-18,00%	-4,500	771,553	2,00%	772,717	771,463	771,888	-0,829	4,500	771,373	-2,00%	4,750	771,928	33,91%	6,630	771,966	2,00%	7,63	771,77	20,00%	8,650	772,785	100,00%

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO														
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			PASSEIO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2045+10,000	-7,057	772,742	100,00%	-6,130	771,815	20,00%	-4,750	772,091	-18,00%	-4,500	771,536	2,00%	772,682	771,446	771,871	-0,811	4,500	771,356	-2,00%	4,750	771,911	33,91%	6,630	771,948	2,00%	7,63	771,75	20,00%	8,674	772,792	100,00%
2046+0,000	-6,974	772,425	100,00%	-6,130	771,581	20,00%	-4,750	771,857	-18,00%	-4,500	771,302	2,00%	772,213	771,212	771,637	-0,576	4,500	771,122	-2,00%	4,750	771,677	33,91%	6,630	771,715	2,00%	7,63	771,52	20,00%	8,653	772,538	100,00%
2046+10,000	-6,478	771,619	100,00%	-6,130	771,271	20,00%	-4,750	771,547	-18,00%	-4,500	770,992	2,00%	771,694	770,902	771,327	-0,367	4,500	770,812	-2,00%	4,750	771,367	33,91%	6,630	771,405	2,00%	7,63	771,41		7,724	771,343	-66,67%
2047+0,000	-6,293	771,036	-66,67%	-6,130	771,145		-4,750	771,145	-18,00%	-4,500	770,590	2,00%	771,099	770,500	770,925	-0,174	4,500	770,410	-2,00%	4,750	770,965	33,91%	6,630	771,002	2,00%	7,63	770,80	20,00%	7,946	771,119	100,00%
2047+10,000	-7,196	769,939	-66,67%	-6,130	770,650		-4,750	770,650	-18,00%	-4,500	770,095	2,00%	770,478	770,005	770,430	-0,048	4,500	769,915	-2,00%	4,750	770,470	33,91%	6,630	770,507	2,00%	7,63	770,31	20,00%	7,826	770,503	100,00%
2048+0,000	-7,965	768,846	-66,67%	-6,130	770,069		-4,750	770,069	-18,00%	-4,500	769,514	2,00%	769,546	769,424	769,849	0,303	4,500	769,334	-2,00%	4,750	769,889	33,91%	6,630	769,926	2,00%	7,63	769,93		8,157	769,575	-66,67%
2048+10,000	-8,047	768,263	-66,67%	-6,130	769,541		-4,750	769,541	-18,00%	-4,500	768,986	2,00%	769,076	768,896	769,321	0,245	4,500	768,806	-2,00%	4,750	769,361	33,91%	6,630	769,399	2,00%	7,63	769,40		9,509	768,146	-66,67%
2049+0,000	-7,645	768,143	-66,67%	-6,130	769,152		-4,750	769,152	-18,00%	-4,500	768,597	2,00%	768,517	768,507	768,932	0,415	4,500	768,417	-2,00%	4,750	768,972	33,91%	6,630	769,010	2,00%	7,63	769,01		8,572	768,382	-66,67%
2049+10,000	-7,131	768,236	-66,67%	-6,130	768,903		-4,750	768,903	-18,00%	-4,500	768,348	2,00%	768,048	768,258	768,683	0,635	4,500	768,168	-2,00%	4,750	768,723	33,91%	6,630	768,761	2,00%	7,63	768,76		8,728	768,029	-66,67%
2050+0,000	-7,414	767,937	-66,67%	-6,130	768,793		-4,750	768,793	-18,00%	-4,500	768,238	2,00%	767,772	768,148	768,573	0,801	4,500	768,058	-2,00%	4,750	768,613	33,91%	6,630	768,651	2,00%	7,63	768,65		8,595	768,007	-66,67%
2050+10,000	-7,437	767,950	-66,67%	-6,130	768,822		-4,750	768,822	-18,00%	-4,500	768,267	2,00%	768,084	768,177	768,602	0,518	4,500	768,087	-2,00%	4,750	768,642	33,91%	6,630	768,680	2,00%	7,63	768,68		8,314	768,224	-66,67%
2051+0,000	-6,698	768,612	-66,67%	-6,130	768,990		-4,750	768,990	-18,00%	-4,500	768,435	2,00%	768,645	768,345	768,770	0,125	4,500	768,255	-2,00%	4,750	768,810	33,91%	6,630	768,848	2,00%	7,63	768,85		8,194	768,472	-66,67%
2051+10,000	-6,237	769,226	-66,67%	-6,130	769,298		-4,750	769,298	-18,00%	-4,500	768,743	2,00%	769,243	768,653	769,078	-0,165	4,500	768,563	-2,00%	4,750	769,118	33,91%	6,630	769,155	2,00%	7,63	769,16		7,811	769,034	-66,67%
2051+10,443	-6,237	769,243	-66,67%	-6,130	769,314		-4,750	769,314	-18,00%	-4,500	768,759	2,00%	769,269	768,669	769,094	-0,175	4,500	768,579	-2,00%	4,750	769,134	33,91%	6,630	769,172	2,00%	7,63	769,17		7,793	769,064	-66,67%
2052+0,000	-6,855	770,193	100,00%	-6,130	769,468	20,00%	-4,750	769,744	-18,00%	-4,500	769,189	2,00%	769,910	769,099	769,524	-0,386	4,500	769,009	-2,00%	4,750	769,564	33,91%	6,630	769,602	2,00%	7,63	769,40	20,00%	8,087	769,859	100,00%
2052+10,000	-6,990	770,844	100,00%	-6,130	769,984	20,00%	-4,750	770,260	-18,00%	-4,500	769,705	2,00%	770,508	769,615	770,040	-0,468	4,500	769,525	-2,00%	4,750	770,080	33,91%	6,630	770,118	2,00%	7,63	769,92	20,00%	8,212	770,501	100,00%
2053+0,000	-7,230	771,600	100,00%	-6,130	770,501	20,00%	-4,750	770,777	-18,00%	-4,500	770,222	2,00%	771,068	770,132	770,557	-0,511	4,500	770,042	-2,00%	4,750	770,597	33,91%	6,630	770,634	2,00%	7,63	770,43	20,00%	8,358	771,162	100,00%
2053+10,000	-7,053	771,940	100,00%	-6,130	771,017	20,00%	-4,750	771,293	-18,00%	-4,500	770,738	2,00%	771,590	770,648	771,073	-0,517	4,500	770,558	-2,00%	4,750	771,113	33,91%	6,630	771,151	2,00%	7,63	770,95	20,00%	8,271	771,591	100,00%
2054+0,000	-6,572	771,975	100,00%	-6,130	771,533	20,00%	-4,750	771,809	-18,00%	-4,500	771,254	2,00%	772,023	771,164	771,589	-0,434	4,500	771,074	-2,00%	4,750	771,629	33,91%	6,630	771,667	2,00%	7,63	771,47	20,00%	7,861	771,697	100,00%
2054+10,000	-6,315	772,202	-66,67%	-6,130	772,325		-4,750	772,325	-18,00%	-4,500	771,770	2,00%	772,373	771,680	772,105	-0,268	4,500	771,590	-2,00%												
2055+0,000	-6,459	772,895	100,00%	-6,130	772,566	20,00%	-4,750	772,842	-18,00%	-4,500	772,287	2,00%	772,814	772,197	772,622	-0,192	4,500	772,107	-2,00%												
2055+10,000	-6,327	773,226	-66,67%	-6,130	773,358		-4,750	773,358	-18,00%	-4,500	772,803	2,00%	773,317	772,713	773,138	-0,179	4,500	772,623	-2,00%												
2056+0,000	-6,756	773,457	-66,67%	-6,130	773,874		-4,750	773,874	-18,00%	-4,500	773,319	2,00%	773,745	773,229	773,654	-0,091	4,500	773,139	-2,00%												
2056+10,000	-6,706	774,006	-66,67%	-6,130	774,390		-4,750	774,390	-18,00%	-4,500	773,835	2,00%	774,110	773,745	774,170	0,060	4,500	773,655	-2,00%	4,750	774,210	33,91%	6,630	774,248	2,00%	7,63	774,25		8,985	773,345	-66,67%
2057+0,000	-6,673	774,544	-66,67%	-6,130	774,907		-4,750	774,907	-18,00%	-4,500	774,352	2,00%	774,526	774,262	774,687	0,161	4,500	774,172	-2,00%	4,750	774,727	33,91%	6,630	774,764	2,00%	7,63	774,56	20,00%	7,893	774,827	100,00%
2057+10,000	-6,953	774,871	-66,67%	-6,130	775,420		-4,750	775,420	-18,00%	-4,500	774,865	2,00%	775,127	774,775	775,200	0,073	4,500	774,685	-2,00%	4,750	775,240	33,91%	6,630	775,278	2,00%	7,63	775,08	20,00%	7,963	775,411	100,00%
2058+0,000	-7,168	775,224	-66,67%	-6,130	775,916		-4,750	775,916	-18,00%	-4,500	775,361	2,00%	775,661	775,271	775,696	0,035	4,500	775,181	-2,00%	4,750	775,736	33,91%	6,630	775,773	2,00%	7,63	775,57	20,00%	7,985	775,929	100,00%
2058+10,000	-7,382	775,556	-66,67%	-6,130	776,391		-4,750	776,391	-18,00%	-4,500	775,836	2,00%	776,210	775,746	776,171	-0,039	4,500	775,656	-2,00%	4,750	776,211	33,91%	6,630	776,248	2,00%	7,63	776,05	20,00%	8,140	776,558	100,00%
2059+0,000	-7,525	775,915	-66,67%	-6,130	776,845		-4,750	776,845	-18,00%	-4,500	776,290	2,00%	776,682	776,200	776,625	-0,057	4,500	776,110	-2,00%	4,750	776,665	33,91%	6,630	776,702	2,00%	7,63	776,50	20,00%	8,442	777,315	100,00%

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO														
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			PASSEIO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2059+10,000	-7,609	776,292	-66,67%	-6,130	777,278		-4,750	777,278	-18,00%	-4,500	776,723	2,00%	777,088	776,633	777,058	-0,030	4,500	776,543	-2,00%	4,750	777,098	33,91%	6,630	777,136	2,00%	7,63	776,94	20,00%	8,753	778,058	100,00%
2060+0,000	-7,682	776,657	-66,67%	-6,130	777,691		-4,750	777,691	-18,00%	-4,500	777,136	2,00%	777,499	777,046	777,471	-0,028	4,500	776,956	-2,00%	4,750	777,511	33,91%	6,630	777,549	2,00%	7,63	777,35	20,00%	8,277	777,996	100,00%
2060+10,000	-7,706	777,032	-66,67%	-6,130	778,083		-4,750	778,083	-18,00%	-4,500	777,528	2,00%	777,915	777,438	777,863	-0,052	4,500	777,348	-2,00%	4,750	777,903	33,91%	6,630	777,941	2,00%	7,63	777,74	20,00%	8,289	778,400	100,00%
2061+0,000	-7,725	777,391	-66,67%	-6,130	778,455		-4,750	778,455	-18,00%	-4,500	777,900	2,00%	778,298	777,810	778,235	-0,063	4,500	777,720	-2,00%	4,750	778,275	33,91%	6,630	778,312	2,00%	7,63	778,11	20,00%	8,139	778,621	100,00%
2061+10,000	-7,759	777,719	-66,67%	-6,130	778,805		-4,750	778,805	-18,00%	-4,500	778,250	2,00%	778,648	778,160	778,585	-0,063	4,500	778,070	-2,00%	4,750	778,625	33,91%	6,630	778,663	2,00%	7,63	778,46	20,00%	8,074	778,907	100,00%
2062+0,000	-7,694	778,093	-66,67%	-6,130	779,136		-4,750	779,136	-18,00%	-4,500	778,581	2,00%	778,937	778,491	778,916	-0,021	4,500	778,401	-2,00%	4,750	778,956	33,91%	6,630	778,993	2,00%	7,63	778,79	20,00%	8,398	779,561	100,00%
2062+10,000	-7,648	778,433	-66,67%	-6,130	779,445		-4,750	779,445	-18,00%	-4,500	778,890	2,00%	779,220	778,800	779,225	0,005	4,500	778,710	-2,00%	4,750	779,265	33,91%	6,630	779,303	2,00%	7,63	779,10	20,00%	8,256	779,729	100,00%
2063+0,000	-7,677	778,702	-66,67%	-6,130	779,734		-4,750	779,734	-18,00%	-4,500	779,179	2,00%	779,537	779,089	779,514	-0,023	4,500	778,999	-2,00%	4,750	779,554	33,91%	6,630	779,591	2,00%	7,63	779,39	20,00%	8,142	779,904	100,00%
2063+10,000	-7,805	778,895	-66,67%	-6,130	780,012		-4,750	780,012	-18,00%	-4,500	779,457	2,00%	779,832	779,367	779,792	-0,040	4,500	779,277	-2,00%	4,750	779,832	33,91%	6,630	779,870	2,00%	7,63	779,67	20,00%	8,207	780,247	100,00%
2064+0,000	-7,522	779,360	-66,67%	-6,130	780,288		-4,750	780,288	-18,00%	-4,500	779,733	2,00%	780,083	779,643	780,068	-0,015	4,500	779,553	-2,00%												
2064+5,262	-7,518	779,501	-66,67%	-6,130	780,426		-4,750	780,426	-18,00%	-4,500	779,871	2,00%	780,234	779,781	780,206	-0,028	4,500	779,691	-2,00%												
2064+10,000	-7,517	779,621	-66,67%	-6,130	780,546		-4,750	780,546	-18,00%	-4,500	779,991	2,00%	780,372	779,901	780,326	-0,046	4,500	779,811	-2,00%												
2065+0,000	-7,613	779,794	-66,67%	-6,130	780,782		-4,750	780,782	-18,00%	-4,500	780,227	2,00%	780,628	780,137	780,562	-0,066	4,500	780,047	-2,00%												
2065+10,000	-7,725	779,935	-66,67%	-6,130	780,999		-4,750	780,999	-18,00%	-4,500	780,444	2,00%	780,832	780,354	780,779	-0,053	4,500	780,264	-2,00%	4,750	780,819	33,91%	6,630	780,856	2,00%	7,63	780,66	20,00%	8,661	781,687	100,00%
2066+0,000	-7,499	780,281	-66,67%	-6,130	781,194		-4,750	781,194	-18,00%	-4,500	780,639	2,00%	781,064	780,549	780,974	-0,090	4,500	780,459	-2,00%	4,750	781,014	33,91%	6,630	781,052	2,00%	7,63	780,85	20,00%	8,810	782,032	100,00%
2066+10,000	-7,095	780,725	-66,67%	-6,130	781,369		-4,750	781,369	-18,00%	-4,500	780,814	2,00%	781,286	780,724	781,149	-0,137	4,500	780,634	-2,00%	4,750	781,189	33,91%	6,630	781,226	2,00%	7,63	781,03	20,00%	8,863	782,259	100,00%
2067+0,000	-6,886	781,019	-66,67%	-6,130	781,522		-4,750	781,522	-18,00%	-4,500	780,967	2,00%	781,591	780,877	781,302	-0,289	4,500	780,787	-2,00%	4,750	781,342	33,91%	6,630	781,380	2,00%	7,63	781,18	20,00%	8,682	782,232	100,00%
2067+10,000	-6,629	781,323	-66,67%	-6,130	781,656		-4,750	781,656	-18,00%	-4,500	781,101	2,00%	781,637	781,011	781,436	-0,201	4,500	780,921	-2,00%	4,750	781,476	33,91%	6,630	781,513	2,00%	7,63	781,31	20,00%	8,670	782,353	100,00%
2068+0,000	-7,188	781,063	-66,67%	-6,130	781,768		-4,750	781,768	-18,00%	-4,500	781,213	2,00%	781,799	781,123	781,548	-0,251	4,500	781,033	-2,00%	4,750	781,588	33,91%	6,630	781,626	2,00%	7,63	781,43	20,00%	8,976	782,771	100,00%
2068+10,000	-6,367	781,702	-66,67%	-6,130	781,860		-4,750	781,860	-18,00%	-4,500	781,305	2,00%	781,950	781,215	781,640	-0,310	4,500	781,125	-2,00%	4,750	781,680	33,91%	6,630	781,717	2,00%	7,63	781,52	20,00%	8,601	782,488	100,00%
2069+0,000	-6,874	781,434	-66,67%	-6,130	781,930		-4,750	781,930	-18,00%	-4,500	781,375	2,00%	782,017	781,285	781,710	-0,307	4,500	781,195	-2,00%	4,750	781,750	33,91%	6,630	781,788	2,00%	7,63	781,59	20,00%	8,590	782,548	100,00%
2069+10,000	-6,541	781,709	-66,67%	-6,130	781,983		-4,750	781,983	-18,00%	-4,500	781,428	2,00%	782,082	781,338	781,763	-0,319	4,500	781,248	-2,00%	4,750	781,803	33,91%	6,630	781,841	2,00%	7,63	781,64	20,00%	8,592	782,603	100,00%
2070+0,000	-6,256	781,950	-66,67%	-6,130	782,033		-4,750	782,033	-18,00%	-4,500	781,478	2,00%	782,108	781,388	781,813	-0,295	4,500	781,298	-2,00%	4,750	781,853	33,91%	6,630	781,891	2,00%	7,63	781,69	20,00%	8,499	782,560	100,00%
2070+10,000	-6,304	781,967	-66,67%	-6,130	782,083		-4,750	782,083	-18,00%	-4,500	781,528	2,00%	782,169	781,438	781,863	-0,306	4,500	781,348	-2,00%	4,750	781,903	33,91%	6,630	781,941	2,00%	7,63	781,74	20,00%	8,399	782,510	100,00%
2071+0,000	-7,236	781,396	-66,67%	-6,130	782,134		-4,750	782,134	-18,00%	-4,500	781,579	2,00%	782,196	781,489	781,914	-0,282	4,500	781,399	-2,00%	4,750	781,954	33,91%	6,630	781,991	2,00%	7,63	781,79	20,00%	8,346	782,507	100,00%
2071+10,000	-6,961	781,629	-66,67%	-6,130	782,184		-4,750	782,184	-18,00%	-4,500	781,629	2,00%	782,256	781,539	781,964	-0,292	4,500	781,449	-2,00%	4,750	782,004	33,91%	6,630	782,041	2,00%	7,63	781,84	20,00%	8,311	782,522	100,00%
2072+0,000	-6,431	782,033	-66,67%	-6,130	782,234		-4,750	782,234	-18,00%	-4,500	781,679	2,00%	782,295	781,589	782,014	-0,281	4,500	781,499	-2,00%	4,750	782,054	33,91%	6,630	782,092	2,00%	7,63	781,89	20,00%	8,536	782,798	100,00%
2072+10,000	-7,113	781,629	-66,67%	-6,130	782,284		-4,750	782,284	-18,00%	-4,500	781,729	2,00%	782,318	781,639	782,064	-0,254	4,500	781,549	-2,00%	4,750	782,104	33,91%	6,630	782,142	2,00%	7,63	781,94	20,00%	8,476	782,787	100,00%
2073+0,000	-7,169	781,641	-66,67%	-6,130	782,334		-4,750	782,334	-18,00%	-4,500	781,779	2,00%	782,251	781,689	782,114	-0,137	4,500	781,599	-2,00%	4,750	782,154	33,91%	6,630	782,192	2,00%	7,63	781,99	20,00%	8,264	782,626	100,00%

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO														
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			PASSEIO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2073+10,000	-7,133	781,716	-66,67%	-6,130	782,384		-4,750	782,384	-18,00%	-4,500	781,829	2,00%	782,230	781,739	782,164	-0,066	4,500	781,649	-2,00%	4,750	782,204	33,91%	6,630	782,242	2,00%	7,63	782,04	20,00%	8,149	782,561	100,00%
2074+0,000	-7,316	781,644	-66,67%	-6,130	782,434		-4,750	782,434	-18,00%	-4,500	781,879	2,00%	782,159	781,789	782,214	0,055	4,500	781,699	-2,00%												
2074+10,000	-7,226	781,754	-66,67%	-6,130	782,485		-4,750	782,485	-18,00%	-4,500	781,930	2,00%	782,165	781,840	782,265	0,100	4,500	781,750	-2,00%	4,750	782,305	33,91%	6,630	782,342	2,00%	7,63	782,34		7,955	782,126	-66,67%
2075+0,000	-6,306	782,417	-66,67%	-6,130	782,535		-4,750	782,535	-18,00%	-4,500	781,980	2,00%	782,068	781,890	782,315	0,247	4,500	781,800	-2,00%	4,750	782,355	33,91%	6,630	782,392	2,00%	7,63	782,39		8,082	782,091	-66,67%
2075+10,000	-6,910	782,065	-66,67%	-6,130	782,585		-4,750	782,585	-18,00%	-4,500	782,030	2,00%	781,929	781,940	782,365	0,436	4,500	781,850	-2,00%	4,750	782,405	33,91%	6,630	782,442	2,00%	7,63	782,44		7,914	782,253	-66,67%
2076+0,000										-4,500	782,080	2,00%	781,926	781,990	782,415	0,489	4,500	781,900	-2,00%	4,750	782,455	33,91%	6,630	782,493	2,00%	7,63	782,49		8,250	782,079	-66,67%
2076+10,000							-4,750	782,685	-18,00%	-4,500	782,130	2,00%	781,947	782,040	782,465	0,518	4,500	781,950	-2,00%												
2077+0,000							-4,750	782,735	-18,00%	-4,500	782,180	2,00%	781,974	782,090	782,515	0,541	4,500	782,000	-2,00%												
2077+0,082							-4,750	782,736	-18,00%	-4,500	782,181	2,00%	781,974	782,091	782,516	0,542	4,500	782,001	-2,00%												
2077+10,000							-4,750	782,780	-18,00%	-4,500	782,225	2,00%	781,993	782,135	782,560	0,567	4,500	782,045	-2,00%												
2078+0,000	-7,360	781,994	-66,67%	-6,130	782,814		-4,750	782,814	-18,00%	-4,500	782,259	2,00%	781,946	782,169	782,594	0,648	4,500	782,079	-2,00%	4,750	782,634	33,91%	6,630	782,672	2,00%	7,63	782,67		8,341	782,198	-66,67%
2078+10,000	-7,288	782,066	-66,67%	-6,130	782,838		-4,750	782,838	-18,00%	-4,500	782,283	2,00%	781,855	782,193	782,618	0,763	4,500	782,103	-2,00%	4,750	782,658	33,91%	6,630	782,696	2,00%	7,63	782,70		8,263	782,274	-66,67%
2079+0,000	-7,377	782,020	-66,67%	-6,130	782,851		-4,750	782,851	-18,00%	-4,500	782,296	2,00%	781,896	782,206	782,631	0,735	4,500	782,116	-2,00%	4,750	782,671	33,91%	6,630	782,709	2,00%	7,63	782,71		8,267	782,284	-66,67%
2079+10,000	-7,350	782,040	-66,67%	-6,130	782,853		-4,750	782,853	-18,00%	-4,500	782,298	2,00%	781,913	782,208	782,633	0,720	4,500	782,118	-2,00%	4,750	782,673	33,91%	6,630	782,711	2,00%	7,63	782,71		8,171	782,351	-66,67%
2080+0,000	-7,442	781,971	-66,67%	-6,130	782,845		-4,750	782,845	-18,00%	-4,500	782,290	2,00%	781,880	782,200	782,625	0,745	4,500	782,110	-2,00%	4,750	782,665	33,91%	6,630	782,703	2,00%	7,63	782,70		8,572	782,075	-66,67%
2080+10,000	-7,453	781,945	-66,67%	-6,130	782,827		-4,750	782,827	-18,00%	-4,500	782,272	2,00%	781,927	782,182	782,607	0,680	4,500	782,092	-2,00%	4,750	782,647	33,91%	6,630	782,684	2,00%	7,63	782,68		8,465	782,128	-66,67%
2081+0,000	-7,307	782,013	-66,67%	-6,130	782,797		-4,750	782,797	-18,00%	-4,500	782,242	2,00%	781,924	782,152	782,577	0,653	4,500	782,062	-2,00%	4,750	782,617	33,91%	6,630	782,655	2,00%	7,63	782,66		8,467	782,097	-66,67%
2081+10,000	-7,098	782,112	-66,67%	-6,130	782,757		-4,750	782,757	-18,00%	-4,500	782,202	2,00%	781,939	782,112	782,537	0,598	4,500	782,022	-2,00%	4,750	782,577	33,91%	6,630	782,615	2,00%	7,63	782,62		8,615	781,958	-66,67%
2082+0,000	-6,655	782,357	-66,67%	-6,130	782,707		-4,750	782,707	-18,00%	-4,500	782,152	2,00%	781,875	782,062	782,487	0,612	4,500	781,972	-2,00%	4,750	782,527	33,91%	6,630	782,564	2,00%	7,63	782,56		8,818	781,772	-66,67%
2082+10,000	-6,745	782,236	-66,67%	-6,130	782,646		-4,750	782,646	-18,00%	-4,500	782,091	2,00%	781,869	782,001	782,426	0,557	4,500	781,911	-2,00%	4,750	782,466	33,91%	6,630	782,503	2,00%	7,63	782,50		8,630	781,836	-66,67%
2083+0,000	-6,806	782,124	-66,67%	-6,130	782,574		-4,750	782,574	-18,00%	-4,500	782,019	2,00%	781,846	781,929	782,354	0,508	4,500	781,839	-2,00%	4,750	782,394	33,91%	6,630	782,432	2,00%	7,63	782,43		8,733	781,696	-66,67%
2083+10,000	-6,806	782,041	-66,67%	-6,130	782,492		-4,750	782,492	-18,00%	-4,500	781,937	2,00%	781,838	781,847	782,272	0,434	4,500	781,757	-2,00%	4,750	782,312	33,91%	6,630	782,349	2,00%	7,63	782,35		8,733	781,614	-66,67%
2084+0,000										-4,500	781,849	2,00%	781,605	781,759	782,184	0,579	4,500	781,669	-2,00%	4,750	782,224	33,91%	6,630	782,262	2,00%	7,63	782,26		9,109	781,275	-66,67%
2084+10,000										-4,500	781,762	2,00%	781,574	781,672	782,097	0,523	4,500	781,582	-2,00%	4,750	782,137	33,91%	6,630	782,174	2,00%	7,63	782,17		9,012	781,253	-66,67%
2085+0,000										-4,500	781,674	2,00%	781,586	781,584	782,009	0,423	4,500	781,494	-2,00%	4,750	782,049	33,91%	6,630	782,087	2,00%	7,63	782,09		8,738	781,348	-66,67%
2085+10,000										-4,500	781,586	2,00%	781,646	781,496	781,921	0,275	4,500	781,406	-2,00%	4,750	781,961	33,91%	6,630	781,999	2,00%	7,63	782,00		8,485	781,429	-66,67%
2086+0,000	-6,402	781,872	-66,67%	-6,130	782,054		-4,750	782,054	-18,00%	-4,500	781,499	2,00%	781,680	781,409	781,834	0,154	4,500	781,319	-2,00%	4,750	781,874	33,91%	6,630	781,911	2,00%	7,63	781,91		8,387	781,407	-66,67%
2086+10,000	-6,320	781,839	-66,67%	-6,130	781,966		-4,750	781,966	-18,00%	-4,500	781,411	2,00%	781,716	781,321	781,746	0,030	4,500	781,231	-2,00%	4,750	781,786	33,91%	6,630	781,824	2,00%	7,63	781,82		8,212	781,436	-66,67%
2087+0,000	-6,216	781,821	-66,67%	-6,130	781,879		-4,750	781,879	-18,00%	-4,500	781,324	2,00%	781,697	781,234	781,659	-0,038	4,500	781,144	-2,00%	4,750	781,699	33,91%	6,630	781,736	2,00%	7,63	781,74		7,931	781,535	-66,67%

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO														
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			PASSEIO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2087+10,000	-6,431	781,816	100,00%	-6,130	781,515	20,00%	-4,750	781,791	-18,00%	-4,500	781,236	2,00%	781,693	781,146	781,571	-0,122	4,500	781,056	-2,00%	4,750	781,611	33,91%	6,630	781,649	2,00%	7,63	781,65		7,802	781,534	-66,67%
2088+0,000	-6,535	781,833	100,00%	-6,130	781,427	20,00%	-4,750	781,703	-18,00%	-4,500	781,148	2,00%	781,620	781,058	781,483	-0,137	4,500	780,968	-2,00%	4,750	781,523	33,91%	6,630	781,561	2,00%	7,63	781,56		7,891	781,387	-66,67%
2088+10,000	-6,199	781,568	-66,67%	-6,130	781,614		-4,750	781,614	-18,00%	-4,500	781,059	2,00%	781,570	780,969	781,394	-0,176	4,500	780,879	-2,00%	4,750	781,434	33,91%	6,630	781,472	2,00%	7,63	781,47		7,783	781,370	-66,67%
2089+0,000	-6,137	781,510	-66,67%	-6,130	781,514		-4,750	781,514	-18,00%	-4,500	780,959	2,00%	781,476	780,869	781,294	-0,182	4,500	780,779	-2,00%	4,750	781,334	33,91%	6,630	781,372	2,00%	7,63	781,17	20,00%	8,003	781,545	100,00%
2089+10,000	-6,191	781,362	-66,67%	-6,130	781,403		-4,750	781,403	-18,00%	-4,500	780,848	2,00%	781,368	780,758	781,183	-0,185	4,500	780,668	-2,00%	4,750	781,223	33,91%	6,630	781,261	2,00%	7,63	781,06	20,00%	8,064	781,495	100,00%
2090+0,000	-6,251	781,200	-66,67%	-6,130	781,280		-4,750	781,280	-18,00%	-4,500	780,725	2,00%	781,216	780,635	781,060	-0,156	4,500	780,545	-2,00%												
2090+10,000	-6,169	781,120	-66,67%	-6,130	781,146		-4,750	781,146	-18,00%	-4,500	780,591	2,00%	781,071	780,501	780,926	-0,145	4,500	780,411	-2,00%												
2091+0,000	-6,149	780,988	-66,67%	-6,130	781,000		-4,750	781,000	-18,00%	-4,500	780,445	2,00%	780,946	780,355	780,780	-0,166	4,500	780,265	-2,00%	4,750	780,820	33,91%	6,630	780,858	2,00%	7,63	780,86		7,647	780,847	-66,67%
2091+10,000	-6,422	780,859	100,00%	-6,130	780,567	20,00%	-4,750	780,843	-18,00%	-4,500	780,288	2,00%	780,825	780,198	780,623	-0,202	4,500	780,108	-2,00%	4,750	780,663	33,91%	6,630	780,700	2,00%	7,63	780,50	20,00%	7,951	780,821	100,00%
2092+0,000	-6,459	780,727	100,00%	-6,130	780,398	20,00%	-4,750	780,674	-18,00%	-4,500	780,119	2,00%	780,704	780,029	780,454	-0,250	4,500	779,939	-2,00%	4,750	780,494	33,91%	6,630	780,532	2,00%	7,63	780,33	20,00%	7,910	780,612	100,00%
2092+10,000	-6,487	780,575	100,00%	-6,130	780,218	20,00%	-4,750	780,494	-18,00%	-4,500	779,939	2,00%	780,573	779,849	780,274	-0,299	4,500	779,759	-2,00%	4,750	780,314	33,91%	6,630	780,351	2,00%	7,63	780,15	20,00%	8,078	780,599	100,00%
2093+0,000	-6,560	780,455	100,00%	-6,130	780,026	20,00%	-4,750	780,302	-18,00%	-4,500	779,747	2,00%	780,373	779,657	780,082	-0,291	4,500	779,567	-2,00%	4,750	780,122	33,91%	6,630	780,159	2,00%	7,63	779,96	20,00%	8,056	780,385	100,00%
2093+10,000	-6,598	780,290	100,00%	-6,130	779,822	20,00%	-4,750	780,098	-18,00%	-4,500	779,543	2,00%	780,161	779,453	779,878	-0,283	4,500	779,363	-2,00%	4,750	779,918	33,91%	6,630	779,956	2,00%	7,63	779,76	20,00%	8,143	780,269	100,00%
2094+0,000	-6,835	780,312	100,00%	-6,130	779,607	20,00%	-4,750	779,883	-18,00%	-4,500	779,328	2,00%	779,923	779,238	779,663	-0,260	4,500	779,148	-2,00%	4,750	779,703	33,91%	6,630	779,741	2,00%	7,63	779,54	20,00%	7,848	779,759	100,00%
2094+10,000	-6,893	780,144	100,00%	-6,130	779,381	20,00%	-4,750	779,657	-18,00%	-4,500	779,102	2,00%	779,686	779,012	779,437	-0,249	4,500	778,922	-2,00%	4,750	779,477	33,91%	6,630	779,514	2,00%	7,63	779,31	20,00%	7,928	779,612	100,00%
2095+0,000	-6,754	779,774	100,00%	-6,130	779,149	20,00%	-4,750	779,425	-18,00%	-4,500	778,870	2,00%	779,448	778,780	779,205	-0,243	4,500	778,690	-2,00%	4,750	779,245	33,91%	6,630	779,283	2,00%	7,63	779,08	20,00%	7,984	779,437	100,00%
2095+10,000	-6,799	779,587	100,00%	-6,130	778,918	20,00%	-4,750	779,194	-18,00%	-4,500	778,639	2,00%	779,208	778,549	778,974	-0,234	4,500	778,459	-2,00%	4,750	779,014	33,91%	6,630	779,051	2,00%	7,63	778,85	20,00%	7,995	779,216	100,00%
2096+0,000	-6,802	779,357	100,00%	-6,130	778,686	20,00%	-4,750	778,962	-18,00%	-4,500	778,407	2,00%	779,000	778,317	778,742	-0,258	4,500	778,227	-2,00%	4,750	778,782	33,91%	6,630	778,819	2,00%	7,63	778,62	20,00%	8,098	779,088	100,00%
2096+10,000	-6,781	779,105	100,00%	-6,130	778,454	20,00%	-4,750	778,730	-18,00%	-4,500	778,175	2,00%	778,794	778,085	778,510	-0,284	4,500	777,995	-2,00%	4,750	778,550	33,91%	6,630	778,588	2,00%	7,63	778,39	20,00%	7,932	778,690	100,00%
2097+0,000	-6,692	778,785	100,00%	-6,130	778,223	20,00%	-4,750	778,499	-18,00%	-4,500	777,944	2,00%	778,581	777,854	778,279	-0,302	4,500	777,764	-2,00%	4,750	778,319	33,91%	6,630	778,356	2,00%	7,63	778,16	20,00%	7,907	778,433	100,00%
2097+10,000	-6,670	778,531	100,00%	-6,130	777,991	20,00%	-4,750	778,267	-18,00%	-4,500	777,712	2,00%	778,352	777,622	778,047	-0,305	4,500	777,532	-2,00%	4,750	778,087	33,91%	6,630	778,124	2,00%	7,63	777,92	20,00%	7,929	778,223	100,00%
2098+0,000	-6,742	778,371	100,00%	-6,130	777,759	20,00%	-4,750	778,035	-18,00%	-4,500	777,480	2,00%	778,104	777,390	777,815	-0,289	4,500	777,300	-2,00%	4,750	777,855	33,91%	6,630	777,893	2,00%	7,63	777,69	20,00%	7,895	777,957	100,00%
2098+10,000	-6,733	778,131	100,00%	-6,130	777,528	20,00%	-4,750	777,804	-18,00%	-4,500	777,249	2,00%	777,871	777,159	777,584	-0,287	4,500	777,069	-2,00%	4,750	777,624	33,91%	6,630	777,661	2,00%	7,63	777,46	20,00%	7,863	777,694	100,00%
2099+0,000	-6,651	777,817	100,00%	-6,130	777,296	20,00%	-4,750	777,572	-18,00%	-4,500	777,017	2,00%	777,672	776,927	777,352	-0,320	4,500	776,837	-2,00%	4,750	777,392	33,91%	6,630	777,429	2,00%	7,63	777,23	20,00%	7,892	777,491	100,00%
2099+10,000	-6,577	777,511	100,00%	-6,130	777,064	20,00%	-4,750	777,340	-18,00%	-4,500	776,785	2,00%	777,454	776,695	777,120	-0,334	4,500	776,605	-2,00%	4,750	777,160	33,91%	6,630	777,198	2,00%	7,63	777,00	20,00%	7,892	777,260	100,00%
2100+0,000	-6,504	777,206	100,00%	-6,130	776,833	20,00%	-4,750	777,109	-18,00%	-4,500	776,554	2,00%	777,187	776,464	776,889	-0,298	4,500	776,374	-2,00%	4,750	776,929	33,91%	6,630	776,966	2,00%	7,63	776,77	20,00%	7,887	777,023	100,00%
2100+10,000	-6,492	776,963	100,00%	-6,130	776,601	20,00%	-4,750	776,877	-18,00%	-4,500	776,322	2,00%	776,936	776,232	776,657	-0,279	4,500	776,142	-2,00%	4,750	776,697	33,91%	6,630	776,734	2,00%	7,63	776,53	20,00%	7,904	776,809	100,00%
2101+0,000	-6,603	776,842	100,00%	-6,130	776,369	20,00%	-4,750	776,645	-18,00%	-4,500	776,090	2,00%	776,738	776,000	776,425	-0,313	4,500	775,910	-2,00%	4,750	776,465	33,91%	6,630	776,503	2,00%	7,63	776,30	20,00%	7,964	776,636	100,00%
2101+10,000	-6,666	776,674	100,00%	-6,130	776,138	20,00%	-4,750	776,414	-18,00%	-4,500	775,859	2,00%	776,555	775,769	776,194	-0,361	4,500	775,679	-2,00%	4,750	776,234	33,91%	6,630	776,271	2,00%	7,63	776,07	20,00%	7,917	776,358	100,00%

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO														
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			PASSEIO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2102+0,000	-6,690	776,466	100,00%	-6,130	775,906	20,00%	-4,750	776,182	-18,00%	-4,500	775,627	2,00%	776,372	775,537	775,962	-0,410	4,500	775,447	-2,00%	4,750	776,002	33,91%	6,630	776,039	2,00%	7,63	775,84	20,00%	7,988	776,198	100,00%
2102+10,000	-6,719	776,263	100,00%	-6,130	775,674	20,00%	-4,750	775,950	-18,00%	-4,500	775,395	2,00%	776,171	775,305	775,730	-0,441	4,500	775,215	-2,00%	4,750	775,770	33,91%	6,630	775,808	2,00%	7,63	775,61	20,00%	8,063	776,041	100,00%
2103+0,000	-6,744	776,056	100,00%	-6,130	775,443	20,00%	-4,750	775,719	-18,00%	-4,500	775,164	2,00%	775,953	775,074	775,499	-0,454	4,500	774,984	-2,00%	4,750	775,539	33,91%	6,630	775,576	2,00%	7,63	775,38	20,00%	8,256	776,002	100,00%
2103+10,000	-6,794	775,875	100,00%	-6,130	775,211	20,00%	-4,750	775,487	-18,00%	-4,500	774,932	2,00%	775,666	774,842	775,267	-0,399	4,500	774,752	-2,00%	4,750	775,307	33,91%	6,630	775,344	2,00%	7,63	775,14	20,00%	8,254	775,768	100,00%
2104+0,000	-6,731	775,580	100,00%	-6,130	774,979	20,00%	-4,750	775,255	-18,00%	-4,500	774,700	2,00%	775,336	774,610	775,035	-0,301	4,500	774,520	-2,00%	4,750	775,075	33,91%	6,630	775,113	2,00%	7,63	774,91	20,00%	8,231	775,514	100,00%
2104+10,000	-6,614	775,232	100,00%	-6,130	774,748	20,00%	-4,750	775,024	-18,00%	-4,500	774,469	2,00%	774,982	774,379	774,804	-0,178	4,500	774,289	-2,00%	4,750	774,844	33,91%	6,630	774,881	2,00%	7,63	774,68	20,00%	8,053	775,104	100,00%
2105+0,000										-4,500	774,237	2,00%	774,594	774,147	774,572	-0,022	4,500	774,057	-2,00%	4,750	774,612	33,91%	6,630	774,649	2,00%	7,63	774,45	20,00%	7,995	774,815	100,00%

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO						EIXO				LADO DIREITO								
	MEIO FIO			BORDO PISTA			COTAS				BORDO PISTA			MEIO FIO			PASSEIO		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2020+0,000	-4,750	772,271		-4,500	772,141	2,00%	772,037	771,626	772,051	0,014	4,500	771,961	-2,00%	4,750	772,091		6,630	772,129	2,00%
2020+10,000	-4,750	772,422		-4,500	772,292	2,00%	772,126	771,777	772,202	0,076	4,500	772,112	-2,00%	4,750	772,242		6,630	772,280	2,00%
2020+11,464	-4,750	772,444		-4,500	772,314	2,00%	772,139	771,799	772,224	0,085	4,500	772,134	-2,00%	4,750	772,264		6,630	772,302	2,00%
2021+0,000	-4,750	772,573		-4,500	772,443	2,00%	772,219	771,928	772,353	0,134	4,500	772,263	-2,00%	4,750	772,393		6,630	772,431	2,00%
2021+2,075	-4,750	772,604		-4,500	772,474	2,00%	772,239	771,959	772,384	0,145	4,500	772,294	-2,00%	4,750	772,424		6,630	772,462	2,00%
2021+10,000	-4,750	772,724		-4,500	772,594	2,00%	772,375	772,079	772,504	0,129	4,500	772,414	-2,00%	4,750	772,544		6,630	772,582	2,00%
2021+12,687	-4,750	772,765		-4,500	772,635	2,00%	772,504	772,120	772,545	0,041	4,500	772,455	-2,00%						
2022+0,000	-4,750	772,875		-4,500	772,745	2,00%	772,962	772,230	772,655	-0,307	4,500	772,565	-2,00%						
2022+10,000	-4,750	773,026		-4,500	772,896	2,00%	773,028	772,381	772,806	-0,222	4,500	772,716	-2,00%						
2023+0,000	-4,750	773,177		-4,500	773,047	2,00%	773,123	772,532	772,957	-0,166	4,500	772,867	-2,00%						
2023+10,000				-4,500	773,198	2,00%	773,253	772,683	773,108	-0,145	4,500	773,018	-2,00%	4,750	773,148		6,630	773,186	2,00%
2024+0,000				-4,500	773,349	2,00%	773,394	772,834	773,259	-0,135	4,500	773,169	-2,00%	4,750	773,299		6,630	773,336	2,00%
2024+10,000				-4,500	773,500	2,00%	773,626	772,985	773,410	-0,216	4,500	773,320	-2,00%	4,750	773,450		6,630	773,487	2,00%
2025+0,000				-4,500	773,651	2,00%	773,768	773,136	773,561	-0,207	4,500	773,471	-2,00%	4,750	773,601		6,630	773,638	2,00%
2025+10,000				-4,500	773,802	2,00%	774,004	773,287	773,712	-0,292	4,500	773,622	-2,00%	4,750	773,752		6,630	773,789	2,00%
2026+0,000				-4,500	773,953	2,00%	774,169	773,438	773,863	-0,306	4,500	773,773	-2,00%	4,750	773,903		6,630	773,940	2,00%
2026+10,000	-4,750	774,234		-4,500	774,104	2,00%	774,230	773,589	774,014	-0,216	4,500	773,924	-2,00%	4,750	774,054		6,630	774,091	2,00%
2027+0,000	-4,750	774,385		-4,500	774,255	2,00%	774,347	773,740	774,165	-0,182	4,500	774,075	-2,00%	4,750	774,205		6,630	774,242	2,00%
2027+10,000	-4,750	774,536		-4,500	774,406	2,00%	774,520	773,891	774,316	-0,204	4,500	774,226	-2,00%	4,750	774,356		6,630	774,393	2,00%
2028+0,000	-4,750	774,687		-4,500	774,557	2,00%	774,655	774,042	774,467	-0,188	4,500	774,377	-2,00%	4,750	774,507		6,630	774,544	2,00%
2028+10,000	-4,750	774,838		-4,500	774,708	2,00%	774,729	774,193	774,618	-0,111	4,500	774,528	-2,00%	4,750	774,658		6,630	774,695	2,00%
2029+0,000	-4,750	774,989		-4,500	774,859	2,00%	774,846	774,344	774,769	-0,077	4,500	774,679	-2,00%	4,750	774,809		6,630	774,846	2,00%
2029+10,000	-4,750	775,140		-4,500	775,010	2,00%	774,932	774,495	774,920	-0,012	4,500	774,830	-2,00%	4,750	774,960		6,630	774,997	2,00%
2030+0,000	-4,750	775,291		-4,500	775,161	2,00%	775,021	774,646	775,071	0,050	4,500	774,981	-2,00%	4,750	775,111		6,630	775,148	2,00%
2030+10,000	-4,750	775,442		-4,500	775,312	2,00%	775,178	774,797	775,222	0,044	4,500	775,132	-2,00%	4,750	775,262		6,630	775,299	2,00%
2031+0,000	-4,750	775,593		-4,500	775,463	2,00%	775,383	774,948	775,373	-0,010	4,500	775,283	-2,00%	4,750	775,413		6,630	775,450	2,00%
2031+10,000	-4,750	775,731		-4,500	775,601	2,00%	775,337	775,086	775,511	0,174	4,500	775,421	-2,00%	4,750	775,551		6,630	775,589	2,00%
2032+0,000	-4,750	775,822		-4,500	775,692	2,00%	775,557	775,177	775,602	0,045	4,500	775,512	-2,00%	4,750	775,642		6,630	775,679	2,00%
2032+10,000	-4,750	775,874		-4,500	775,744	2,00%	775,523	775,229	775,654	0,131	4,500	775,564	-2,00%	4,750	775,694		6,630	775,732	2,00%
2033+0,000	-4,750	775,924		-4,500	775,794	2,00%	775,714	775,279	775,704	-0,010	4,500	775,614	-2,00%	4,750	775,744		6,630	775,782	2,00%
2033+10,000	-4,750	775,974		-4,500	775,844	2,00%	775,663	775,329	775,754	0,091	4,500	775,664	-2,00%	4,750	775,794		6,630	775,832	2,00%
2034+0,000	-4,750	776,022		-4,500	775,892	2,00%	775,714	775,377	775,802	0,088	4,500	775,712	-2,00%	4,750	775,842		6,630	775,879	2,00%
2034+10,000	-4,750	776,047		-4,500	775,917	2,00%	775,747	775,402	775,827	0,080	4,500	775,737	-2,00%	4,750	775,867		6,630	775,905	2,00%
2035+0,000	-4,750	776,044		-4,500	775,914	2,00%	775,799	775,399	775,824	0,025	4,500	775,734	-2,00%	4,750	775,864		6,630	775,902	2,00%

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO						EIXO				LADO DIREITO								
	MEIO FIO			BORDO PISTA			COTAS				BORDO PISTA			MEIO FIO			PASSEIO		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2035+10,000	-4,750	776,014		-4,500	775,884	2,00%	775,832	775,369	775,794	-0,038	4,500	775,704	-2,00%	4,750	775,834		6,630	775,872	2,00%
2036+0,000	-4,750	775,957		-4,500	775,827	2,00%	775,853	775,312	775,737	-0,116	4,500	775,647	-2,00%	4,750	775,777		6,630	775,814	2,00%
2036+10,000	-4,750	775,871		-4,500	775,741	2,00%	775,918	775,226	775,651	-0,267	4,500	775,561	-2,00%	4,750	775,691		6,630	775,729	2,00%
2037+0,000	-4,750	775,758		-4,500	775,628	2,00%	775,880	775,113	775,538	-0,342	4,500	775,448	-2,00%						
2037+10,000	-4,750	775,618		-4,500	775,488	2,00%	775,953	774,973	775,398	-0,555	4,500	775,308	-2,00%						
2038+0,000	-4,750	775,449		-4,500	775,319	2,00%	775,939	774,804	775,229	-0,710	4,500	775,139	-2,00%						
2038+4,747	-4,750	775,360		-4,500	775,230	2,00%	775,959	774,715	775,140	-0,819	4,500	775,050	-2,00%	4,750	775,180		6,630	775,217	2,00%
2038+10,000	-4,750	775,254		-4,500	775,124	2,00%	775,983	774,609	775,034	-0,949	4,500	774,944	-2,00%	4,750	775,074		6,630	775,111	2,00%
2039+0,000	-4,750	775,032		-4,500	774,902	2,00%	776,029	774,387	774,812	-1,217	4,500	774,722	-2,00%						
2039+10,000	-4,750	774,806		-4,500	774,676	2,00%	776,143	774,161	774,586	-1,557	4,500	774,496	-2,00%						
2040+0,000	-4,750	774,580		-4,500	774,450	2,00%	774,757	773,935	774,360	-0,397	4,500	774,270	-2,00%						
2040+10,000				-4,500	774,223	2,00%	774,612	773,708	774,133	-0,479	4,500	774,043	-2,00%	4,750	774,173		6,630	774,211	2,00%
2041+0,000				-4,500	773,997	2,00%	774,447	773,482	773,907	-0,540	4,500	773,817	-2,00%	4,750	773,947		6,630	773,985	2,00%
2041+10,000				-4,500	773,771	2,00%	774,483	773,256	773,681	-0,802	4,500	773,591	-2,00%	4,750	773,721		6,630	773,759	2,00%
2041+16,992				-4,500	773,613	2,00%	774,476	773,098	773,523	-0,953	4,500	773,433	-2,00%	4,750	773,563		6,630	773,600	2,00%
2042+0,000				-4,500	773,545	2,00%	774,470	773,030	773,455	-1,015	4,500	773,365	-2,00%	4,750	773,495		6,630	773,532	2,00%
2042+10,000				-4,500	773,318	2,00%	774,456	772,803	773,228	-1,228	4,500	773,138	-2,00%	4,750	773,268		6,630	773,306	2,00%
2043+0,000				-4,500	773,092	2,00%	774,255	772,577	773,002	-1,253	4,500	772,912	-2,00%	4,750	773,042		6,630	773,080	2,00%
2043+10,000				-4,500	772,866	2,00%	774,077	772,351	772,776	-1,301	4,500	772,686	-2,00%	4,750	772,816		6,630	772,854	2,00%
2044+0,000	-4,750	772,770		-4,500	772,640	2,00%	773,849	772,125	772,550	-1,299	4,500	772,460	-2,00%						
2044+10,000	-4,750	772,543		-4,500	772,413	2,00%	773,517	771,898	772,323	-1,194	4,500	772,233	-2,00%						
2045+0,000	-4,750	772,317		-4,500	772,187	2,00%	773,141	771,672	772,097	-1,044	4,500	772,007	-2,00%	4,750	772,137		6,630	772,175	2,00%
2045+9,237	-4,750	772,108		-4,500	771,978	2,00%	772,717	771,463	771,888	-0,829	4,500	771,798	-2,00%	4,750	771,928		6,630	771,966	2,00%
2045+10,000	-4,750	772,091		-4,500	771,961	2,00%	772,682	771,446	771,871	-0,811	4,500	771,781	-2,00%	4,750	771,911		6,630	771,948	2,00%
2046+0,000	-4,750	771,857		-4,500	771,727	2,00%	772,213	771,212	771,637	-0,576	4,500	771,547	-2,00%	4,750	771,677		6,630	771,715	2,00%
2046+10,000	-4,750	771,547		-4,500	771,417	2,00%	771,694	770,902	771,327	-0,367	4,500	771,237	-2,00%	4,750	771,367		6,630	771,405	2,00%
2047+0,000	-4,750	771,145		-4,500	771,015	2,00%	771,099	770,500	770,925	-0,174	4,500	770,835	-2,00%	4,750	770,965		6,630	771,002	2,00%
2047+10,000	-4,750	770,650		-4,500	770,520	2,00%	770,478	770,005	770,430	-0,048	4,500	770,340	-2,00%	4,750	770,470		6,630	770,507	2,00%
2048+0,000	-4,750	770,069		-4,500	769,939	2,00%	769,546	769,424	769,849	0,303	4,500	769,759	-2,00%	4,750	769,889		6,630	769,926	2,00%
2048+10,000	-4,750	769,541		-4,500	769,411	2,00%	769,076	768,896	769,321	0,245	4,500	769,231	-2,00%	4,750	769,361		6,630	769,399	2,00%
2049+0,000	-4,750	769,152		-4,500	769,022	2,00%	768,517	768,507	768,932	0,415	4,500	768,842	-2,00%	4,750	768,972		6,630	769,010	2,00%
2049+10,000	-4,750	768,903		-4,500	768,773	2,00%	768,048	768,258	768,683	0,635	4,500	768,593	-2,00%	4,750	768,723		6,630	768,761	2,00%
2050+0,000	-4,750	768,793		-4,500	768,663	2,00%	767,772	768,148	768,573	0,801	4,500	768,483	-2,00%	4,750	768,613		6,630	768,651	2,00%
2050+10,000	-4,750	768,822		-4,500	768,692	2,00%	768,084	768,177	768,602	0,518	4,500	768,512	-2,00%	4,750	768,642		6,630	768,680	2,00%

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO						EIXO				LADO DIREITO								
	MEIO FIO			BORDO PISTA			COTAS				BORDO PISTA			MEIO FIO			PASSEIO		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2051+0,000	-4,750	768,990		-4,500	768,860	2,00%	768,645	768,345	768,770	0,125	4,500	768,680	-2,00%	4,750	768,810		6,630	768,848	2,00%
2051+10,000	-4,750	769,298		-4,500	769,168	2,00%	769,243	768,653	769,078	-0,165	4,500	768,988	-2,00%	4,750	769,118		6,630	769,155	2,00%
2051+10,443	-4,750	769,314		-4,500	769,184	2,00%	769,269	768,669	769,094	-0,175	4,500	769,004	-2,00%	4,750	769,134		6,630	769,172	2,00%
2052+0,000	-4,750	769,744		-4,500	769,614	2,00%	769,910	769,099	769,524	-0,386	4,500	769,434	-2,00%	4,750	769,564		6,630	769,602	2,00%
2052+10,000	-4,750	770,260		-4,500	770,130	2,00%	770,508	769,615	770,040	-0,468	4,500	769,950	-2,00%	4,750	770,080		6,630	770,118	2,00%
2053+0,000	-4,750	770,777		-4,500	770,647	2,00%	771,068	770,132	770,557	-0,511	4,500	770,467	-2,00%	4,750	770,597		6,630	770,634	2,00%
2053+10,000	-4,750	771,293		-4,500	771,163	2,00%	771,590	770,648	771,073	-0,517	4,500	770,983	-2,00%	4,750	771,113		6,630	771,151	2,00%
2054+0,000	-4,750	771,809		-4,500	771,679	2,00%	772,023	771,164	771,589	-0,434	4,500	771,499	-2,00%	4,750	771,629		6,630	771,667	2,00%
2054+10,000	-4,750	772,325		-4,500	772,195	2,00%	772,373	771,680	772,105	-0,268	4,500	772,015	-2,00%						
2055+0,000	-4,750	772,842		-4,500	772,712	2,00%	772,814	772,197	772,622	-0,192	4,500	772,532	-2,00%						
2055+10,000	-4,750	773,358		-4,500	773,228	2,00%	773,317	772,713	773,138	-0,179	4,500	773,048	-2,00%						
2056+0,000	-4,750	773,874		-4,500	773,744	2,00%	773,745	773,229	773,654	-0,091	4,500	773,564	-2,00%						
2056+10,000	-4,750	774,390		-4,500	774,260	2,00%	774,110	773,745	774,170	0,060	4,500	774,080	-2,00%	4,750	774,210		6,630	774,248	2,00%
2057+0,000	-4,750	774,907		-4,500	774,777	2,00%	774,526	774,262	774,687	0,161	4,500	774,597	-2,00%	4,750	774,727		6,630	774,764	2,00%
2057+10,000	-4,750	775,420		-4,500	775,290	2,00%	775,127	774,775	775,200	0,073	4,500	775,110	-2,00%	4,750	775,240		6,630	775,278	2,00%
2058+0,000	-4,750	775,916		-4,500	775,786	2,00%	775,661	775,271	775,696	0,035	4,500	775,606	-2,00%	4,750	775,736		6,630	775,773	2,00%
2058+10,000	-4,750	776,391		-4,500	776,261	2,00%	776,210	775,746	776,171	-0,039	4,500	776,081	-2,00%	4,750	776,211		6,630	776,248	2,00%
2059+0,000	-4,750	776,845		-4,500	776,715	2,00%	776,682	776,200	776,625	-0,057	4,500	776,535	-2,00%	4,750	776,665		6,630	776,702	2,00%
2059+10,000	-4,750	777,278		-4,500	777,148	2,00%	777,088	776,633	777,058	-0,030	4,500	776,968	-2,00%	4,750	777,098		6,630	777,136	2,00%
2060+0,000	-4,750	777,691		-4,500	777,561	2,00%	777,499	777,046	777,471	-0,028	4,500	777,381	-2,00%	4,750	777,511		6,630	777,549	2,00%
2060+10,000	-4,750	778,083		-4,500	777,953	2,00%	777,915	777,438	777,863	-0,052	4,500	777,773	-2,00%	4,750	777,903		6,630	777,941	2,00%
2061+0,000	-4,750	778,455		-4,500	778,325	2,00%	778,298	777,810	778,235	-0,063	4,500	778,145	-2,00%	4,750	778,275		6,630	778,312	2,00%
2061+10,000	-4,750	778,805		-4,500	778,675	2,00%	778,648	778,160	778,585	-0,063	4,500	778,495	-2,00%	4,750	778,625		6,630	778,663	2,00%
2062+0,000	-4,750	779,136		-4,500	779,006	2,00%	778,937	778,491	778,916	-0,021	4,500	778,826	-2,00%	4,750	778,956		6,630	778,993	2,00%
2062+10,000	-4,750	779,445		-4,500	779,315	2,00%	779,220	778,800	779,225	0,005	4,500	779,135	-2,00%	4,750	779,265		6,630	779,303	2,00%
2063+0,000	-4,750	779,734		-4,500	779,604	2,00%	779,537	779,089	779,514	-0,023	4,500	779,424	-2,00%	4,750	779,554		6,630	779,591	2,00%
2063+10,000	-4,750	780,012		-4,500	779,882	2,00%	779,832	779,367	779,792	-0,040	4,500	779,702	-2,00%	4,750	779,832		6,630	779,870	2,00%
2064+0,000	-4,750	780,288		-4,500	780,158	2,00%	780,083	779,643	780,068	-0,015	4,500	779,978	-2,00%						
2064+5,262	-4,750	780,426		-4,500	780,296	2,00%	780,234	779,781	780,206	-0,028	4,500	780,116	-2,00%						
2064+10,000	-4,750	780,546		-4,500	780,416	2,00%	780,372	779,901	780,326	-0,046	4,500	780,236	-2,00%						
2065+0,000	-4,750	780,782		-4,500	780,652	2,00%	780,628	780,137	780,562	-0,066	4,500	780,472	-2,00%						
2065+10,000	-4,750	780,999		-4,500	780,869	2,00%	780,832	780,354	780,779	-0,053	4,500	780,689	-2,00%	4,750	780,819		6,630	780,856	2,00%
2066+0,000	-4,750	781,194		-4,500	781,064	2,00%	781,064	780,549	780,974	-0,090	4,500	780,884	-2,00%	4,750	781,014		6,630	781,052	2,00%
2066+10,000	-4,750	781,369		-4,500	781,239	2,00%	781,286	780,724	781,149	-0,137	4,500	781,059	-2,00%	4,750	781,189		6,630	781,226	2,00%

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO						EIXO				LADO DIREITO								
	MEIO FIO			BORDO PISTA			COTAS				BORDO PISTA			MEIO FIO			PASSEIO		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2067+0,000	-4,750	781,522		-4,500	781,392	2,00%	781,591	780,877	781,302	-0,289	4,500	781,212	-2,00%	4,750	781,342		6,630	781,380	2,00%
2067+10,000	-4,750	781,656		-4,500	781,526	2,00%	781,637	781,011	781,436	-0,201	4,500	781,346	-2,00%	4,750	781,476		6,630	781,513	2,00%
2068+0,000	-4,750	781,768		-4,500	781,638	2,00%	781,799	781,123	781,548	-0,251	4,500	781,458	-2,00%	4,750	781,588		6,630	781,626	2,00%
2068+10,000	-4,750	781,860		-4,500	781,730	2,00%	781,950	781,215	781,640	-0,310	4,500	781,550	-2,00%	4,750	781,680		6,630	781,717	2,00%
2069+0,000	-4,750	781,930		-4,500	781,800	2,00%	782,017	781,285	781,710	-0,307	4,500	781,620	-2,00%	4,750	781,750		6,630	781,788	2,00%
2069+10,000	-4,750	781,983		-4,500	781,853	2,00%	782,082	781,338	781,763	-0,319	4,500	781,673	-2,00%	4,750	781,803		6,630	781,841	2,00%
2070+0,000	-4,750	782,033		-4,500	781,903	2,00%	782,108	781,388	781,813	-0,295	4,500	781,723	-2,00%	4,750	781,853		6,630	781,891	2,00%
2070+10,000	-4,750	782,083		-4,500	781,953	2,00%	782,169	781,438	781,863	-0,306	4,500	781,773	-2,00%	4,750	781,903		6,630	781,941	2,00%
2071+0,000	-4,750	782,134		-4,500	782,004	2,00%	782,196	781,489	781,914	-0,282	4,500	781,824	-2,00%	4,750	781,954		6,630	781,991	2,00%
2071+10,000	-4,750	782,184		-4,500	782,054	2,00%	782,256	781,539	781,964	-0,292	4,500	781,874	-2,00%	4,750	782,004		6,630	782,041	2,00%
2072+0,000	-4,750	782,234		-4,500	782,104	2,00%	782,295	781,589	782,014	-0,281	4,500	781,924	-2,00%	4,750	782,054		6,630	782,092	2,00%
2072+10,000	-4,750	782,284		-4,500	782,154	2,00%	782,318	781,639	782,064	-0,254	4,500	781,974	-2,00%	4,750	782,104		6,630	782,142	2,00%
2073+0,000	-4,750	782,334		-4,500	782,204	2,00%	782,251	781,689	782,114	-0,137	4,500	782,024	-2,00%	4,750	782,154		6,630	782,192	2,00%
2073+10,000	-4,750	782,384		-4,500	782,254	2,00%	782,230	781,739	782,164	-0,066	4,500	782,074	-2,00%	4,750	782,204		6,630	782,242	2,00%
2074+0,000	-4,750	782,434		-4,500	782,304	2,00%	782,159	781,789	782,214	0,055	4,500	782,124	-2,00%						
2074+10,000	-4,750	782,485		-4,500	782,355	2,00%	782,165	781,840	782,265	0,100	4,500	782,175	-2,00%	4,750	782,305		6,630	782,342	2,00%
2075+0,000	-4,750	782,535		-4,500	782,405	2,00%	782,068	781,890	782,315	0,247	4,500	782,225	-2,00%	4,750	782,355		6,630	782,392	2,00%
2075+10,000	-4,750	782,585		-4,500	782,455	2,00%	781,929	781,940	782,365	0,436	4,500	782,275	-2,00%	4,750	782,405		6,630	782,442	2,00%
2076+0,000				-4,500	782,505	2,00%	781,926	781,990	782,415	0,489	4,500	782,325	-2,00%	4,750	782,455		6,630	782,493	2,00%
2076+10,000	-4,750	782,685		-4,500	782,555	2,00%	781,947	782,040	782,465	0,518	4,500	782,375	-2,00%						
2077+0,000	-4,750	782,735		-4,500	782,605	2,00%	781,974	782,090	782,515	0,541	4,500	782,425	-2,00%						
2077+0,082	-4,750	782,736		-4,500	782,606	2,00%	781,974	782,091	782,516	0,542	4,500	782,426	-2,00%						
2077+10,000	-4,750	782,780		-4,500	782,650	2,00%	781,993	782,135	782,560	0,567	4,500	782,470	-2,00%						
2078+0,000	-4,750	782,814		-4,500	782,684	2,00%	781,946	782,169	782,594	0,648	4,500	782,504	-2,00%	4,750	782,634		6,630	782,672	2,00%
2078+10,000	-4,750	782,838		-4,500	782,708	2,00%	781,855	782,193	782,618	0,763	4,500	782,528	-2,00%	4,750	782,658		6,630	782,696	2,00%
2079+0,000	-4,750	782,851		-4,500	782,721	2,00%	781,896	782,206	782,631	0,735	4,500	782,541	-2,00%	4,750	782,671		6,630	782,709	2,00%
2079+10,000	-4,750	782,853		-4,500	782,723	2,00%	781,913	782,208	782,633	0,720	4,500	782,543	-2,00%	4,750	782,673		6,630	782,711	2,00%
2080+0,000	-4,750	782,845		-4,500	782,715	2,00%	781,880	782,200	782,625	0,745	4,500	782,535	-2,00%	4,750	782,665		6,630	782,703	2,00%
2080+10,000	-4,750	782,827		-4,500	782,697	2,00%	781,927	782,182	782,607	0,680	4,500	782,517	-2,00%	4,750	782,647		6,630	782,684	2,00%
2081+0,000	-4,750	782,797		-4,500	782,667	2,00%	781,924	782,152	782,577	0,653	4,500	782,487	-2,00%	4,750	782,617		6,630	782,655	2,00%
2081+10,000	-4,750	782,757		-4,500	782,627	2,00%	781,939	782,112	782,537	0,598	4,500	782,447	-2,00%	4,750	782,577		6,630	782,615	2,00%
2082+0,000	-4,750	782,707		-4,500	782,577	2,00%	781,875	782,062	782,487	0,612	4,500	782,397	-2,00%	4,750	782,527		6,630	782,564	2,00%
2082+10,000	-4,750	782,646		-4,500	782,516	2,00%	781,869	782,001	782,426	0,557	4,500	782,336	-2,00%	4,750	782,466		6,630	782,503	2,00%
2083+0,000	-4,750	782,574		-4,500	782,444	2,00%	781,846	781,929	782,354	0,508	4,500	782,264	-2,00%	4,750	782,394		6,630	782,432	2,00%

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL RODOVIA BR-277

Estaca	LADO ESQUERDO						EIXO				LADO DIREITO								
	MEIO FIO			BORDO PISTA			COTAS				BORDO PISTA			MEIO FIO			PASSEIO		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2083+10,000	-4,750	782,492		-4,500	782,362	2,00%	781,838	781,847	782,272	0,434	4,500	782,182	-2,00%	4,750	782,312		6,630	782,349	2,00%
2084+0,000				-4,500	782,274	2,00%	781,605	781,759	782,184	0,579	4,500	782,094	-2,00%	4,750	782,224		6,630	782,262	2,00%
2084+10,000				-4,500	782,187	2,00%	781,574	781,672	782,097	0,523	4,500	782,007	-2,00%	4,750	782,137		6,630	782,174	2,00%
2085+0,000				-4,500	782,099	2,00%	781,586	781,584	782,009	0,423	4,500	781,919	-2,00%	4,750	782,049		6,630	782,087	2,00%
2085+10,000				-4,500	782,011	2,00%	781,646	781,496	781,921	0,275	4,500	781,831	-2,00%	4,750	781,961		6,630	781,999	2,00%
2086+0,000	-4,750	782,054		-4,500	781,924	2,00%	781,680	781,409	781,834	0,154	4,500	781,744	-2,00%	4,750	781,874		6,630	781,911	2,00%
2086+10,000	-4,750	781,966		-4,500	781,836	2,00%	781,716	781,321	781,746	0,030	4,500	781,656	-2,00%	4,750	781,786		6,630	781,824	2,00%
2087+0,000	-4,750	781,879		-4,500	781,749	2,00%	781,697	781,234	781,659	-0,038	4,500	781,569	-2,00%	4,750	781,699		6,630	781,736	2,00%
2087+10,000	-4,750	781,791		-4,500	781,661	2,00%	781,693	781,146	781,571	-0,122	4,500	781,481	-2,00%	4,750	781,611		6,630	781,649	2,00%
2088+0,000	-4,750	781,703		-4,500	781,573	2,00%	781,620	781,058	781,483	-0,137	4,500	781,393	-2,00%	4,750	781,523		6,630	781,561	2,00%
2088+10,000	-4,750	781,614		-4,500	781,484	2,00%	781,570	780,969	781,394	-0,176	4,500	781,304	-2,00%	4,750	781,434		6,630	781,472	2,00%
2089+0,000	-4,750	781,514		-4,500	781,384	2,00%	781,476	780,869	781,294	-0,182	4,500	781,204	-2,00%	4,750	781,334		6,630	781,372	2,00%
2089+10,000	-4,750	781,403		-4,500	781,273	2,00%	781,368	780,758	781,183	-0,185	4,500	781,093	-2,00%	4,750	781,223		6,630	781,261	2,00%
2090+0,000	-4,750	781,280		-4,500	781,150	2,00%	781,216	780,635	781,060	-0,156	4,500	780,970	-2,00%						
2090+10,000	-4,750	781,146		-4,500	781,016	2,00%	781,071	780,501	780,926	-0,145	4,500	780,836	-2,00%						
2091+0,000	-4,750	781,000		-4,500	780,870	2,00%	780,946	780,355	780,780	-0,166	4,500	780,690	-2,00%	4,750	780,820		6,630	780,858	2,00%
2091+10,000	-4,750	780,843		-4,500	780,713	2,00%	780,825	780,198	780,623	-0,202	4,500	780,533	-2,00%	4,750	780,663		6,630	780,700	2,00%
2092+0,000	-4,750	780,674		-4,500	780,544	2,00%	780,704	780,029	780,454	-0,250	4,500	780,364	-2,00%	4,750	780,494		6,630	780,532	2,00%
2092+10,000	-4,750	780,494		-4,500	780,364	2,00%	780,573	779,849	780,274	-0,299	4,500	780,184	-2,00%	4,750	780,314		6,630	780,351	2,00%
2093+0,000	-4,750	780,302		-4,500	780,172	2,00%	780,373	779,657	780,082	-0,291	4,500	779,992	-2,00%	4,750	780,122		6,630	780,159	2,00%
2093+10,000	-4,750	780,098		-4,500	779,968	2,00%	780,161	779,453	779,878	-0,283	4,500	779,788	-2,00%	4,750	779,918		6,630	779,956	2,00%
2094+0,000	-4,750	779,883		-4,500	779,753	2,00%	779,923	779,238	779,663	-0,260	4,500	779,573	-2,00%	4,750	779,703		6,630	779,741	2,00%
2094+10,000	-4,750	779,657		-4,500	779,527	2,00%	779,686	779,012	779,437	-0,249	4,500	779,347	-2,00%	4,750	779,477		6,630	779,514	2,00%
2095+0,000	-4,750	779,425		-4,500	779,295	2,00%	779,448	778,780	779,205	-0,243	4,500	779,115	-2,00%	4,750	779,245		6,630	779,283	2,00%
2095+10,000	-4,750	779,194		-4,500	779,064	2,00%	779,208	778,549	778,974	-0,234	4,500	778,884	-2,00%	4,750	779,014		6,630	779,051	2,00%
2096+0,000	-4,750	778,962		-4,500	778,832	2,00%	779,000	778,317	778,742	-0,258	4,500	778,652	-2,00%	4,750	778,782		6,630	778,819	2,00%
2096+10,000	-4,750	778,730		-4,500	778,600	2,00%	778,794	778,085	778,510	-0,284	4,500	778,420	-2,00%	4,750	778,550		6,630	778,588	2,00%
2097+0,000	-4,750	778,499		-4,500	778,369	2,00%	778,581	777,854	778,279	-0,302	4,500	778,189	-2,00%	4,750	778,319		6,630	778,356	2,00%
2097+10,000	-4,750	778,267		-4,500	778,137	2,00%	778,352	777,622	778,047	-0,305	4,500	777,957	-2,00%	4,750	778,087		6,630	778,124	2,00%
2098+0,000	-4,750	778,035		-4,500	777,905	2,00%	778,104	777,390	777,815	-0,289	4,500	777,725	-2,00%	4,750	777,855		6,630	777,893	2,00%
2098+10,000	-4,750	777,804		-4,500	777,674	2,00%	777,871	777,159	777,584	-0,287	4,500	777,494	-2,00%	4,750	777,624		6,630	777,661	2,00%
2099+0,000	-4,750	777,572		-4,500	777,442	2,00%	777,672	776,927	777,352	-0,320	4,500	777,262	-2,00%	4,750	777,392		6,630	777,429	2,00%
2099+10,000	-4,750	777,340		-4,500	777,210	2,00%	777,454	776,695	777,120	-0,334	4,500	777,030	-2,00%	4,750	777,160		6,630	777,198	2,00%
2100+0,000	-4,750	777,109		-4,500	776,979	2,00%	777,187	776,464	776,889	-0,298	4,500	776,799	-2,00%	4,750	776,929		6,630	776,966	2,00%

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL RODOVIA BR-277																			
Estaca	LADO ESQUERDO						EIXO				LADO DIREITO								
	MEIO FIO			BORDO PISTA			COTAS				BORDO PISTA			MEIO FIO			PASSEIO		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2100+10,000	-4,750	776,877		-4,500	776,747	2,00%	776,936	776,232	776,657	-0,279	4,500	776,567	-2,00%	4,750	776,697		6,630	776,734	2,00%
2101+0,000	-4,750	776,645		-4,500	776,515	2,00%	776,738	776,000	776,425	-0,313	4,500	776,335	-2,00%	4,750	776,465		6,630	776,503	2,00%
2101+10,000	-4,750	776,414		-4,500	776,284	2,00%	776,555	775,769	776,194	-0,361	4,500	776,104	-2,00%	4,750	776,234		6,630	776,271	2,00%
2102+0,000	-4,750	776,182		-4,500	776,052	2,00%	776,372	775,537	775,962	-0,410	4,500	775,872	-2,00%	4,750	776,002		6,630	776,039	2,00%
2102+10,000	-4,750	775,950		-4,500	775,820	2,00%	776,171	775,305	775,730	-0,441	4,500	775,640	-2,00%	4,750	775,770		6,630	775,808	2,00%
2103+0,000	-4,750	775,719		-4,500	775,589	2,00%	775,953	775,074	775,499	-0,454	4,500	775,409	-2,00%	4,750	775,539		6,630	775,576	2,00%
2103+10,000	-4,750	775,487		-4,500	775,357	2,00%	775,666	774,842	775,267	-0,399	4,500	775,177	-2,00%	4,750	775,307		6,630	775,344	2,00%
2104+0,000	-4,750	775,255		-4,500	775,125	2,00%	775,336	774,610	775,035	-0,301	4,500	774,945	-2,00%	4,750	775,075		6,630	775,113	2,00%
2104+10,000	-4,750	775,024		-4,500	774,894	2,00%	774,982	774,379	774,804	-0,178	4,500	774,714	-2,00%	4,750	774,844		6,630	774,881	2,00%
2105+0,000				-4,500	774,662	2,00%	774,594	774,147	774,572	-0,022	4,500	774,482	-2,00%	4,750	774,612		6,630	774,649	2,00%

1.3.11 Marginal Direita 5000

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 5000																								
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO										
	OFFSET			FOLGA			OFFSET SUBBASE			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
5007+12,134										780,474	780,032	780,462	-0,012											
5008+0,000	-1,261	780,623	100,00	-1,000	780,363	25,00	-0,725	780,197	2,00	780,610	780,183	780,613	0,003	6,499	780,053	-2,000	7,224	780,038	-2,00	7,499	780,233	25,00	7,836	780,570	100,00
5008+0,799	-1,260	780,639	100,00	-1,000	780,379	25,00	-0,725	780,213	2,00	780,625	780,199	780,629	0,004	6,499	780,069	-2,000	7,224	780,054	-2,00	7,499	780,249	25,00	7,832	780,582	100,00
5008+10,000	-1,013	780,780	-66,67	-1,000	780,789	5,00	-0,725	780,423	2,00	780,787	780,409	780,839	0,052	6,500	780,279	-2,000	7,225	780,264	-2,00	7,500	780,459	25,00	7,871	780,830	100,00
5008+14,168	-1,201	780,899	100,00	-1,000	780,699	25,00	-0,725	780,533	2,00	780,908	780,519	780,949	0,041	6,500	780,389	-2,000	7,225	780,374	-2,00	7,500	780,569	25,00	7,912	780,980	100,00
5009+0,000	-1,201	781,069	100,00	-1,000	780,868	25,00	-0,725	780,702	2,00	781,078	780,688	781,118	0,040	6,526	780,557	-2,000	7,251	780,543	-2,00	7,526	780,737	25,00	7,973	781,185	100,00
5009+10,000	-1,250	781,423	100,00	-1,000	781,173	25,00	-0,725	781,008	2,00	781,429	780,993	781,423	-0,006	9,000	780,813	-2,000	9,725	780,799	-2,00	10,000	780,993	25,00	10,631	781,624	100,00
5010+0,000	-1,238	781,716	100,00	-1,000	781,479	25,00	-0,725	781,313	2,00	781,709	781,299	781,729	0,020	9,000	781,119	-2,000	9,725	781,104	-2,00	10,000	781,299	25,00	10,513	781,812	100,00
5010+10,000	-1,323	782,102	100,00	-1,000	781,779	25,00	-0,725	781,614	2,00	782,086	781,599	782,029	-0,057	9,000	781,419	-2,000	9,725	781,405	-2,00	10,000	781,599	25,00	10,495	782,095	100,00
5011+0,000	-1,275	782,331	100,00	-1,000	782,055	25,00	-0,725	781,890	2,00	782,315	781,875	782,305	-0,010	9,000	781,695	-2,000	9,725	781,681	-2,00	10,000	781,875	25,00	10,518	782,393	100,00
5011+10,000	-1,283	782,589	100,00	-1,000	782,306	25,00	-0,725	782,141	2,00	782,601	782,126	782,556	-0,045	9,000	781,946	-2,000	9,725	781,932	-2,00	10,000	782,126	25,00	10,556	782,682	100,00
5012+0,000	-1,291	782,844	100,00	-1,000	782,553	25,00	-0,725	782,388	2,00	782,859	782,373	782,803	-0,056	9,000	782,193	-2,000	9,725	782,179	-2,00	10,000	782,373	25,00	10,580	782,953	100,00
5012+10,000	-1,284	783,084	100,00	-1,000	782,800	25,00	-0,725	782,635	2,00	783,099	782,620	783,050	-0,049	9,000	782,440	-2,000	9,725	782,426	-2,00	10,000	782,620	25,00	10,638	783,258	100,00
5013+0,000	-1,215	783,262	100,00	-1,000	783,047	25,00	-0,725	782,882	2,00	783,283	782,867	783,297	0,014	9,000	782,687	-2,000	9,725	782,673	-2,00	10,000	782,867	25,00	10,537	783,404	100,00
5013+10,000	-1,106	783,424	-66,67	-1,000	783,494	5,00	-0,725	783,129	2,00	783,445	783,114	783,544	0,099	9,000	782,934	-2,000	9,725	782,920	-2,00	10,000	783,114	25,00	10,425	783,539	100,00
5014+0,000	-1,203	783,744	100,00	-1,000	783,541	25,00	-0,725	783,376	2,00	783,797	783,361	783,791	-0,006	9,000	783,181	-2,000	9,725	783,167	-2,00	10,000	783,361	25,00	10,897	784,258	100,00
5014+10,000	-1,071	783,941	-66,67	-1,000	783,988	5,00	-0,725	783,623	2,00	783,988	783,608	784,038	0,050	9,000	783,428	-2,000	9,725	783,414	-2,00	10,000	783,608	25,00	10,795	784,404	100,00
5015+0,000	-1,058	784,196	-66,67	-1,000	784,235	5,00	-0,725	783,870	2,00	784,218	783,855	784,285	0,067	9,000	783,675	-2,000	9,725	783,661	-2,00	10,000	783,855	25,00	10,733	784,589	100,00
5015+10,000	-1,250	784,533	100,00	-1,000	784,282	25,00	-0,725	784,117	2,00	784,560	784,102	784,532	-0,028	9,000	783,922	-2,000	9,725	783,908	-2,00	10,000	784,102	25,00	10,697	784,799	100,00
5016+0,000	-1,142	784,635	-66,67	-1,000	784,729	5,00	-0,725	784,364	2,00	784,661	784,349	784,779	0,118	9,000	784,169	-2,000	9,725	784,155	-2,00	10,000	784,349	25,00	10,720	785,069	100,00
5016+10,000	-1,184	784,854	-66,67	-1,000	784,976	5,00	-0,725	784,611	2,00	784,892	784,596	785,026	0,134	9,000	784,416	-2,000	9,725	784,402	-2,00	10,000	784,596	25,00	10,787	785,383	100,00
5017+0,000	-1,079	785,171	-66,67	-1,000	785,224	5,00	-0,725	784,858	2,00	785,199	784,844	785,274	0,075	9,000	784,664	-2,000	9,725	784,649	-2,00	10,000	784,844	25,00	10,799	785,642	100,00
5017+10,000	-1,218	785,489	100,00	-1,000	785,271	25,00	-0,725	785,105	2,00	785,517	785,091	785,521	0,004	9,000	784,911	-2,000	9,725	784,896	-2,00	10,000	785,091	25,00	10,769	785,860	100,00
5018+0,000	-1,204	785,722	100,00	-1,000	785,518	25,00	-0,725	785,352	2,00	785,743	785,338	785,768	0,025	9,000	785,158	-2,000	9,725	785,143	-2,00	10,000	785,338	25,00	10,688	786,026	100,00
5018+10,000	-1,141	785,871	-66,67	-1,000	785,965	5,00	-0,725	785,599	2,00	785,888	785,585	786,015	0,127	9,000	785,405	-2,000	9,725	785,390	-2,00	10,000	785,585	25,00	10,472	786,056	100,00
5019+0,000	-1,711	785,738	-66,67	-1,000	786,212	5,00	-0,725	785,846	2,00	785,795	785,832	786,262	0,467	9,000	785,652	-2,000	9,725	785,637	-2,00	10,000	785,832	25,00	10,791	786,623	100,00
5019+10,000	-1,378	786,630	100,00	-1,000	786,252	25,00	-0,725	786,086	2,00	786,741	786,072	786,502	-0,239	9,000	785,892	-2,000	9,725	785,877	-2,00	10,000	786,072	25,00	10,525	786,597	100,00
5020+0,000	-1,531	786,975	100,00	-1,000	786,444	25,00	-0,725	786,279	2,00	787,071	786,264	786,694	-0,377	9,000	786,084	-2,000	9,725	786,070	-2,00	10,000	786,264	25,00	10,468	786,732	100,00
5020+10,000	-1,393	786,977	100,00	-1,000	786,584	25,00	-0,725	786,418	2,00	786,979	786,404	786,834	-0,145	9,000	786,224	-2,000	9,725	786,209	-2,00	10,000	786,404	25,00	10,669	787,072	100,00
5021+0,000	-1,414	787,091	100,00	-1,000	786,677	25,00	-0,725	786,512	2,00	787,085	786,497	786,927	-0,158	9,000	786,317	-2,000	9,725	786,303	-2,00	10,000	786,497	25,00	10,462	786,959	100,00
5021+10,000	-1,592	787,356	100,00	-1,000	786,764	25,00	-0,725	786,599	2,00	787,389	786,584	787,014	-0,375	9,000	786,404	-2,000	9,725	786,390	-2,00	10,000	786,584	25,00	10,512	787,097	100,00
5022+0,000	-1,431	787,282	100,00	-1,000	786,852	25,00	-0,725	786,686	2,00	787,279	786,672	787,102	-0,177	9,000	786,492	-2,000	9,725	786,477	-2,00	10,000	786,672	25,00	10,497	787,168	100,00
5022+10,000	-1,363	787,302	100,00	-1,000	786,939	25,00	-0,725	786,774	2,00	787,300	786,759	787,189	-0,111	9,000	786,579	-2,000	9,725	786,565	-2,00	10,000	786,759	25,00	10,469	787,229	100,00

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 5000

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
5023+0,000	-1,364	787,390	100,00	-1,000	787,026	25,00	-0,725	786,861	2,00	787,376	786,846	787,276	-0,100	9,000	786,666	-2,000	9,725	786,652	-2,00	10,000	786,846	25,00	10,386	787,232	100,00
5023+10,000	-1,080	787,264	-66,67	-1,000	787,317	5,00	-0,725	786,952	2,00	787,274	786,937	787,367	0,093	9,000	786,757	-2,000	9,725	786,742	-2,00	10,000	786,937	25,00	10,338	787,275	100,00
5024+0,000	-1,080	787,363	-66,67	-1,000	787,417	5,00	-0,725	787,051	2,00	787,323	787,037	787,467	0,144	9,000	786,857	-2,000	9,725	786,842	-2,00	10,000	787,037	25,00	10,360	787,397	100,00
5024+10,000	-1,256	787,582	100,00	-1,000	787,326	25,00	-0,725	787,160	2,00	787,533	787,146	787,576	0,043	9,000	786,966	-2,000	9,725	786,951	-2,00	10,000	787,146	25,00	10,267	787,413	100,00
5025+0,000	-1,329	787,773	100,00	-1,000	787,444	25,00	-0,725	787,279	2,00	787,672	787,264	787,694	0,022	9,000	787,084	-2,000	9,725	787,070	-2,00	10,000	787,464	5,00	10,213	787,322	-66,67
5025+10,000	-1,343	787,915	100,00	-1,000	787,572	25,00	-0,725	787,406	2,00	787,851	787,392	787,822	-0,029	9,000	787,212	-2,000	9,725	787,197	-2,00	10,000	787,592	5,00	10,614	787,183	-66,67
5026+0,000	-1,409	788,114	100,00	-1,000	787,706	25,00	-0,725	787,540	2,00	788,067	787,526	787,956	-0,111	9,000	787,346	-2,000	9,725	787,331	-2,00	10,000	787,726	5,00	10,096	787,661	-66,67
5026+10,000	-1,013	788,031	-66,67	-1,000	788,040	5,00	-0,725	787,674	2,00	787,970	787,660	788,090	0,120	9,000	787,480	-2,000	9,725	787,465	-2,00	10,000	787,860	5,00	10,411	787,586	-66,67
5027+0,000	-1,394	788,367	100,00	-1,000	787,974	25,00	-0,725	787,808	2,00	788,284	787,794	788,224	-0,060	9,000	787,614	-2,000	9,725	787,599	-2,00	10,000	787,794	25,00	10,237	788,030	100,00
5027+10,000	-1,441	788,549	100,00	-1,000	788,108	25,00	-0,725	787,942	2,00	788,488	787,928	788,358	-0,130	9,000	787,748	-2,000	9,725	787,733	-2,00	10,000	787,928	25,00	10,293	788,221	100,00
5028+0,000	-1,431	788,672	100,00	-1,000	788,242	25,00	-0,725	788,076	2,00	788,636	788,062	788,492	-0,144	9,000	787,882	-2,000	9,725	787,867	-2,00	10,000	788,062	25,00	10,216	788,278	100,00
5028+10,000	-1,447	788,822	100,00	-1,000	788,376	25,00	-0,725	788,210	2,00	788,786	788,196	788,626	-0,160	9,000	788,016	-2,000	9,725	788,001	-2,00	10,000	788,396	5,00	10,069	788,350	-66,67
5029+0,000	-1,449	788,959	100,00	-1,000	788,510	25,00	-0,725	788,344	2,00	788,911	788,330	788,760	-0,151	9,000	788,150	-2,000	9,725	788,135	-2,00	10,000	788,530	5,00	10,098	788,464	-66,67
5029+10,000	-1,429	789,073	100,00	-1,000	788,644	25,00	-0,725	788,478	2,00	789,024	788,464	788,894	-0,130	9,000	788,284	-2,000	9,725	788,269	-2,00	10,000	788,664	5,00	10,007	788,659	-66,67
5030+0,000	-1,273	789,051	100,00	-1,000	788,778	25,00	-0,725	788,612	2,00	788,988	788,598	789,028	0,040	9,000	788,418	-2,000	9,725	788,403	-2,00	10,000	788,798	5,00	10,158	788,692	-66,67
5030+10,000	-1,251	789,163	100,00	-1,000	788,912	25,00	-0,725	788,746	2,00	789,101	788,732	789,162	0,061	9,000	788,552	-2,000	9,725	788,537	-2,00	10,000	788,932	5,00	10,335	788,708	-66,67
5031+0,000	-1,343	789,389	100,00	-1,000	789,046	25,00	-0,725	788,880	2,00	789,328	788,866	789,296	-0,032	9,000	788,686	-2,000	9,725	788,671	-2,00	10,000	789,066	5,00	10,165	788,956	-66,67
5031+10,000	-1,354	789,534	100,00	-1,000	789,180	25,00	-0,725	789,014	2,00	789,478	789,000	789,430	-0,048	9,000	788,820	-2,000	9,725	788,805	-2,00	10,000	789,200	5,00	10,030	789,180	-66,67
5032+0,000	-1,370	789,684	100,00	-1,000	789,314	25,00	-0,725	789,148	2,00	789,653	789,134	789,564	-0,089	9,000	788,954	-2,000	9,725	788,939	-2,00	10,000	789,134	25,00	10,293	789,427	100,00
5032+10,000	-1,468	789,915	100,00	-1,000	789,448	25,00	-0,725	789,282	2,00	789,885	789,268	789,698	-0,187	9,000	789,088	-2,000	9,725	789,073	-2,00	10,000	789,468	5,00	10,024	789,452	-66,67
5033+0,000	-1,640	790,221	100,00	-1,000	789,582	25,00	-0,725	789,416	2,00	790,189	789,402	789,832	-0,357	9,000	789,222	-2,000	9,725	789,207	-2,00	10,000	789,402	25,00	10,222	789,624	100,00
5033+10,000	-1,647	790,362	100,00	-1,000	789,716	25,00	-0,725	789,550	2,00	790,295	789,536	789,966	-0,329	9,000	789,356	-2,000	9,725	789,341	-2,00	10,000	789,536	25,00	10,255	789,791	100,00
5034+0,000	-1,451	790,301	100,00	-1,000	789,850	25,00	-0,725	789,684	2,00	790,261	789,670	790,100	-0,161	9,000	789,490	-2,000	9,725	789,475	-2,00	10,000	789,670	25,00	10,258	789,927	100,00
5034+10,000	-1,296	790,280	100,00	-1,000	789,984	25,00	-0,725	789,818	2,00	790,255	789,804	790,234	-0,021	9,000	789,624	-2,000	9,725	789,609	-2,00	10,000	789,804	25,00	10,212	790,015	100,00
5034+14,764	-1,277	790,325	100,00	-1,000	790,048	25,00	-0,725	789,882	2,00	790,298	789,868	790,298		9,000	789,688	-2,000	9,725	789,673	-2,00	10,000	789,868	25,00	10,196	790,064	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 5000

Estaca	LADO ESQUERDO						EIXO				LADO DIREITO								
	OFFSET			FOLGA			COTAS				BORDO PISTA			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
5007+12,134							780,474	780,032	780,462	-0,012									
5008+0,000	-1,261	780,623	100,000	-1,000	780,363	25,00	780,610	780,183	780,613	0,003	6,499	780,483	-2,00	7,499	780,233	25,00	7,836	780,570	100,00
5008+0,799	-1,260	780,639	100,000	-1,000	780,379	25,00	780,625	780,199	780,629	0,004	6,499	780,499	-2,00	7,499	780,249	25,00	7,832	780,582	100,00
5008+10,000	-1,013	780,780	-66,670	-1,000	780,789	5,00	780,787	780,409	780,839	0,052	6,500	780,709	-2,00	7,500	780,459	25,00	7,871	780,830	100,00
5008+14,168	-1,201	780,899	100,000	-1,000	780,699	25,00	780,908	780,519	780,949	0,041	6,500	780,819	-2,00	7,500	780,569	25,00	7,912	780,980	100,00
5009+0,000	-1,201	781,069	100,000	-1,000	780,868	25,00	781,078	780,688	781,118	0,040	6,526	780,987	-2,00	7,526	780,737	25,00	7,973	781,185	100,00
5009+10,000	-1,250	781,423	100,000	-1,000	781,173	25,00	781,429	780,993	781,423	-0,006	9,000	781,243	-2,00	10,000	780,993	25,00	10,631	781,624	100,00
5010+0,000	-1,238	781,716	100,000	-1,000	781,479	25,00	781,709	781,299	781,729	0,020	9,000	781,549	-2,00	10,000	781,299	25,00	10,513	781,812	100,00
5010+10,000	-1,323	782,102	100,000	-1,000	781,779	25,00	782,086	781,599	782,029	-0,057	9,000	781,849	-2,00	10,000	781,599	25,00	10,495	782,095	100,00
5011+0,000	-1,275	782,331	100,000	-1,000	782,055	25,00	782,315	781,875	782,305	-0,010	9,000	782,125	-2,00	10,000	781,875	25,00	10,518	782,393	100,00
5011+10,000	-1,283	782,589	100,000	-1,000	782,306	25,00	782,601	782,126	782,556	-0,045	9,000	782,376	-2,00	10,000	782,126	25,00	10,556	782,682	100,00
5012+0,000	-1,291	782,844	100,000	-1,000	782,553	25,00	782,859	782,373	782,803	-0,056	9,000	782,623	-2,00	10,000	782,373	25,00	10,580	782,953	100,00
5012+10,000	-1,284	783,084	100,000	-1,000	782,800	25,00	783,099	782,620	783,050	-0,049	9,000	782,870	-2,00	10,000	782,620	25,00	10,638	783,258	100,00
5013+0,000	-1,215	783,262	100,000	-1,000	783,047	25,00	783,283	782,867	783,297	0,014	9,000	783,117	-2,00	10,000	782,867	25,00	10,537	783,404	100,00
5013+10,000	-1,106	783,424	-66,670	-1,000	783,494	5,00	783,445	783,114	783,544	0,099	9,000	783,364	-2,00	10,000	783,114	25,00	10,425	783,539	100,00
5014+0,000	-1,203	783,744	100,000	-1,000	783,541	25,00	783,797	783,361	783,791	-0,006	9,000	783,611	-2,00	10,000	783,361	25,00	10,897	784,258	100,00
5014+10,000	-1,071	783,941	-66,670	-1,000	783,988	5,00	783,988	783,608	784,038	0,050	9,000	783,858	-2,00	10,000	783,608	25,00	10,795	784,404	100,00
5015+0,000	-1,058	784,196	-66,670	-1,000	784,235	5,00	784,218	783,855	784,285	0,067	9,000	784,105	-2,00	10,000	783,855	25,00	10,733	784,589	100,00
5015+10,000	-1,250	784,533	100,000	-1,000	784,282	25,00	784,560	784,102	784,532	-0,028	9,000	784,352	-2,00	10,000	784,102	25,00	10,697	784,799	100,00
5016+0,000	-1,142	784,635	-66,670	-1,000	784,729	5,00	784,661	784,349	784,779	0,118	9,000	784,599	-2,00	10,000	784,349	25,00	10,720	785,069	100,00
5016+10,000	-1,184	784,854	-66,670	-1,000	784,976	5,00	784,892	784,596	785,026	0,134	9,000	784,846	-2,00	10,000	784,596	25,00	10,787	785,383	100,00
5017+0,000	-1,079	785,171	-66,670	-1,000	785,224	5,00	785,199	784,844	785,274	0,075	9,000	785,094	-2,00	10,000	784,844	25,00	10,799	785,642	100,00
5017+10,000	-1,218	785,489	100,000	-1,000	785,271	25,00	785,517	785,091	785,521	0,004	9,000	785,341	-2,00	10,000	785,091	25,00	10,769	785,860	100,00
5018+0,000	-1,204	785,722	100,000	-1,000	785,518	25,00	785,743	785,338	785,768	0,025	9,000	785,588	-2,00	10,000	785,338	25,00	10,688	786,026	100,00
5018+10,000	-1,141	785,871	-66,670	-1,000	785,965	5,00	785,888	785,585	786,015	0,127	9,000	785,835	-2,00	10,000	785,585	25,00	10,472	786,056	100,00
5019+0,000	-1,711	785,738	-66,670	-1,000	786,212	5,00	785,795	785,832	786,262	0,467	9,000	786,082	-2,00	10,000	785,832	25,00	10,791	786,623	100,00
5019+10,000	-1,378	786,630	100,000	-1,000	786,252	25,00	786,741	786,072	786,502	-0,239	9,000	786,322	-2,00	10,000	786,072	25,00	10,525	786,597	100,00
5020+0,000	-1,531	786,975	100,000	-1,000	786,444	25,00	787,071	786,264	786,694	-0,377	9,000	786,514	-2,00	10,000	786,264	25,00	10,468	786,732	100,00
5020+10,000	-1,393	786,977	100,000	-1,000	786,584	25,00	786,979	786,404	786,834	-0,145	9,000	786,654	-2,00	10,000	786,404	25,00	10,669	787,072	100,00
5021+0,000	-1,414	787,091	100,000	-1,000	786,677	25,00	787,085	786,497	786,927	-0,158	9,000	786,747	-2,00	10,000	786,497	25,00	10,462	786,959	100,00
5021+10,000	-1,592	787,356	100,000	-1,000	786,764	25,00	787,389	786,584	787,014	-0,375	9,000	786,834	-2,00	10,000	786,584	25,00	10,512	787,097	100,00
5022+0,000	-1,431	787,282	100,000	-1,000	786,852	25,00	787,279	786,672	787,102	-0,177	9,000	786,922	-2,00	10,000	786,672	25,00	10,497	787,168	100,00
5022+10,000	-1,363	787,302	100,000	-1,000	786,939	25,00	787,300	786,759	787,189	-0,111	9,000	787,009	-2,00	10,000	786,759	25,00	10,469	787,229	100,00
5023+0,000	-1,364	787,390	100,000	-1,000	787,026	25,00	787,376	786,846	787,276	-0,100	9,000	787,096	-2,00	10,000	786,846	25,00	10,386	787,232	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 5000

Estaca	LADO ESQUERDO						EIXO				LADO DIREITO								
	OFFSET			FOLGA			COTAS				BORDO PISTA			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
5023+10,000	-1,080	787,264	-66,670	-1,000	787,317	5,00	787,274	786,937	787,367	0,093	9,000	787,187	-2,00	10,000	786,937	25,00	10,338	787,275	100,00
5024+0,000	-1,080	787,363	-66,670	-1,000	787,417	5,00	787,323	787,037	787,467	0,144	9,000	787,287	-2,00	10,000	787,037	25,00	10,360	787,397	100,00
5024+10,000	-1,256	787,582	100,000	-1,000	787,326	25,00	787,533	787,146	787,576	0,043	9,000	787,396	-2,00	10,000	787,146	25,00	10,267	787,413	100,00
5025+0,000	-1,329	787,773	100,000	-1,000	787,444	25,00	787,672	787,264	787,694	0,022	9,000	787,514	-2,00	10,000	787,464	5,00	10,213	787,322	-66,67
5025+10,000	-1,343	787,915	100,000	-1,000	787,572	25,00	787,851	787,392	787,822	-0,029	9,000	787,642	-2,00	10,000	787,592	5,00	10,614	787,183	-66,67
5026+0,000	-1,409	788,114	100,000	-1,000	787,706	25,00	788,067	787,526	787,956	-0,111	9,000	787,776	-2,00	10,000	787,726	5,00	10,096	787,661	-66,67
5026+10,000	-1,013	788,031	-66,670	-1,000	788,040	5,00	787,970	787,660	788,090	0,120	9,000	787,910	-2,00	10,000	787,860	5,00	10,411	787,586	-66,67
5027+0,000	-1,394	788,367	100,000	-1,000	787,974	25,00	788,284	787,794	788,224	-0,060	9,000	788,044	-2,00	10,000	787,794	25,00	10,237	788,030	100,00
5027+10,000	-1,441	788,549	100,000	-1,000	788,108	25,00	788,488	787,928	788,358	-0,130	9,000	788,178	-2,00	10,000	787,928	25,00	10,293	788,221	100,00
5028+0,000	-1,431	788,672	100,000	-1,000	788,242	25,00	788,636	788,062	788,492	-0,144	9,000	788,312	-2,00	10,000	788,062	25,00	10,216	788,278	100,00
5028+10,000	-1,447	788,822	100,000	-1,000	788,376	25,00	788,786	788,196	788,626	-0,160	9,000	788,446	-2,00	10,000	788,396	5,00	10,069	788,350	-66,67
5029+0,000	-1,449	788,959	100,000	-1,000	788,510	25,00	788,911	788,330	788,760	-0,151	9,000	788,580	-2,00	10,000	788,530	5,00	10,098	788,464	-66,67
5029+10,000	-1,429	789,073	100,000	-1,000	788,644	25,00	789,024	788,464	788,894	-0,130	9,000	788,714	-2,00	10,000	788,664	5,00	10,007	788,659	-66,67
5030+0,000	-1,273	789,051	100,000	-1,000	788,778	25,00	788,988	788,598	789,028	0,040	9,000	788,848	-2,00	10,000	788,798	5,00	10,158	788,692	-66,67
5030+10,000	-1,251	789,163	100,000	-1,000	788,912	25,00	789,101	788,732	789,162	0,061	9,000	788,982	-2,00	10,000	788,932	5,00	10,335	788,708	-66,67
5031+0,000	-1,343	789,389	100,000	-1,000	789,046	25,00	789,328	788,866	789,296	-0,032	9,000	789,116	-2,00	10,000	789,066	5,00	10,165	788,956	-66,67
5031+10,000	-1,354	789,534	100,000	-1,000	789,180	25,00	789,478	789,000	789,430	-0,048	9,000	789,250	-2,00	10,000	789,200	5,00	10,030	789,180	-66,67
5032+0,000	-1,370	789,684	100,000	-1,000	789,314	25,00	789,653	789,134	789,564	-0,089	9,000	789,384	-2,00	10,000	789,134	25,00	10,293	789,427	100,00
5032+10,000	-1,468	789,915	100,000	-1,000	789,448	25,00	789,885	789,268	789,698	-0,187	9,000	789,518	-2,00	10,000	789,468	5,00	10,024	789,452	-66,67
5033+0,000	-1,640	790,221	100,000	-1,000	789,582	25,00	790,189	789,402	789,832	-0,357	9,000	789,652	-2,00	10,000	789,402	25,00	10,222	789,624	100,00
5033+10,000	-1,647	790,362	100,000	-1,000	789,716	25,00	790,295	789,536	789,966	-0,329	9,000	789,786	-2,00	10,000	789,536	25,00	10,255	789,791	100,00
5034+0,000	-1,451	790,301	100,000	-1,000	789,850	25,00	790,261	789,670	790,100	-0,161	9,000	789,920	-2,00	10,000	789,670	25,00	10,258	789,927	100,00
5034+10,000	-1,296	790,280	100,000	-1,000	789,984	25,00	790,255	789,804	790,234	-0,021	9,000	790,054	-2,00	10,000	789,804	25,00	10,212	790,015	100,00
5034+14,764	-1,277	790,325	100,000	-1,000	790,048	25,00	790,298	789,868	790,298		9,000	790,118	-2,00	10,000	789,868	25,00	10,196	790,064	100,00

1.3.12 Retorno km 579

NOTA DE SERVIÇO DE TERRAPLENAGEM - RETORNO KM 579																									
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
36+10.319										775,584	775,317	775,747	0,163												
36+14.258	-2,649	775,064	-66,67	-1,600	775,763	5,00	-1,536	775,189	-2,00	775,051	775,395	775,825	0,774	12,000	775,460	2,000	13,481	775,490	2,00	13,600	776,027	5,00	15,348	774,862	-66,67
36+15.000	-2,790	774,984	-66,67	-1,600	775,777	5,00	-1,536	775,204	-2,00	775,027	775,409	775,839	0,812	12,000	775,474	2,000	13,481	775,504	2,00	13,600	776,041	5,00	15,607	774,703	-66,67
37+0.000	-2,781	775,075	-66,67	-1,600	775,862	5,00	-1,536	775,288	-2,00	775,161	775,494	775,924	0,763	12,000	775,559	2,000	13,481	775,588	2,00	13,600	776,126	5,00	14,732	775,371	-66,67
37+5.000	-2,688	775,202	-66,67	-1,600	775,927	5,00	-1,536	775,354	-2,00	775,345	775,559	775,989	0,644	12,000	775,624	2,000	13,481	775,654	2,00	13,600	775,991	25,00	13,875	776,266	100,00
37+8.974	-2,541	775,339	-66,67	-1,600	775,966	5,00	-1,536	775,393	-2,00	775,609	775,598	776,028	0,419	12,000	775,663	2,000	13,481	775,693	2,00	13,600	776,030	25,00	14,148	776,578	100,00
37+8.988	-2,542	775,339	-66,67	-1,600	775,966	5,00	-1,536	775,393	-2,00	775,609	775,598	776,028	0,419	12,000	775,663	2,000	13,481	775,693	2,00	13,600	776,030	25,00	14,149	776,579	100,00
37+10.000	-2,568	775,329	-66,67	-1,600	775,974	5,00	-1,536	775,401	-2,00	775,608	775,606	776,036	0,428	11,980	775,671	2,000	13,461	775,701	2,00	13,580	776,038	25,00	14,158	776,616	100,00
37+15.000	-2,927	775,118	-66,67	-1,600	776,003	5,00	-1,536	775,429	-2,00	775,497	775,635	776,065	0,568	11,328	775,687	2,000	12,809	775,716	2,00	12,928	776,254	5,00	12,949	776,240	-66,67
37+16.468	-3,054	775,039	-66,67	-1,600	776,008	5,00	-1,536	775,434	-2,00	775,437	775,640	776,070	0,633	10,962	775,684	2,000	12,443	775,714	2,00	12,562	776,051	25,00	12,774	776,263	100,00
38+0.000	-2,827	775,195	-66,67	-1,600	776,013	5,00	-1,536	775,439	-2,00	775,599	775,645	776,075	0,476	10,048	775,671	2,000	11,529	775,701	2,00	11,648	776,238	5,00			
38+3.948	-2,696	775,277	-66,67	-1,600	776,008	5,00	-1,536	775,434	-2,00	775,721	775,640	776,070	0,349	9,324	775,651	2,000	10,806	775,681	2,00	10,924	776,218	5,00	11,065	776,124	-66,67
38+10.000	-2,565	775,334	-66,67	-1,600	775,977	5,00	-1,536	775,404	-2,00	775,785	775,609	776,039	0,254	8,446	775,603	2,000	9,927	775,633	2,00	10,046	775,970	25,00	10,556	776,481	100,00
39+0.000	-2,434	775,311	-66,67	-1,600	775,867	5,00	-1,536	775,293	-2,00	775,378	775,499	775,929	0,551	6,969	775,463	2,000	8,450	775,493	2,00	8,569	775,830	25,00	9,007	776,268	100,00
39+10.000	-2,476	775,122	-66,67	-1,600	775,707	5,00	-1,481	775,169	2,00	775,019	775,315	775,745	0,726	6,005	775,020	-2,000	7,540	774,989	-2,00	7,605	775,363	25,00	7,923	775,681	100,00
40+0.000	-1,754	775,359	-66,67	-1,600	775,462	5,00	-1,481	774,925	2,00	775,293	775,070	775,500	0,207	5,544	774,784	-2,000	7,080	774,753	-2,00	7,144	775,127	25,00	7,562	775,545	100,00
40+10.000	-1,712	775,237	-66,67	-1,600	775,311	5,00	-1,481	774,774	2,00	775,084	774,919	775,349	0,265	5,500	774,634	-2,000	7,036	774,603	-2,00	7,100	774,977	25,00	7,795	775,672	100,00
40+11.234	-1,679	775,250	-66,67	-1,600	775,303	5,00	-1,481	774,765	2,00	775,100	774,911	775,341	0,241	5,500	774,626	-2,000	7,036	774,595	-2,00	7,100	774,969	25,00	7,663	775,532	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - RETORNO KM 579

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO											
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			ACOSTAMENTO			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
36+10.319										775,584	775,317	775,747	0,163												
36+14.258	-2,649	775,064	-66,67	-1,600	775,763	5,00	-0,600	775,813	-2,00	775,051	775,395	775,825	0,774	12,000	776,065	2,00	12,600	776,077	2,00	13,600	776,027	5,00	15,348	774,862	-66,67
36+15.000	-2,790	774,984	-66,67	-1,600	775,777	5,00	-0,600	775,827	-2,00	775,027	775,409	775,839	0,812	12,000	776,079	2,00	12,600	776,091	2,00	13,600	776,041	5,00	15,607	774,703	-66,67
37+0.000	-2,781	775,075	-66,67	-1,600	775,862	5,00	-0,600	775,912	-2,00	775,161	775,494	775,924	0,763	12,000	776,164	2,00	12,600	776,176	2,00	13,600	776,126	5,00	14,732	775,371	-66,67
37+5.000	-2,688	775,202	-66,67	-1,600	775,927	5,00	-0,600	775,977	-2,00	775,345	775,559	775,989	0,644	12,000	776,229	2,00	12,600	776,241	2,00	13,600	775,991	25,00	13,875	776,266	100,00
37+8.974	-2,541	775,339	-66,67	-1,600	775,966	5,00	-0,600	776,016	-2,00	775,609	775,598	776,028	0,419	12,000	776,268	2,00	12,600	776,280	2,00	13,600	776,030	25,00	14,148	776,578	100,00
37+8.988	-2,542	775,339	-66,67	-1,600	775,966	5,00	-0,600	776,016	-2,00	775,609	775,598	776,028	0,419	12,000	776,268	2,00	12,600	776,280	2,00	13,600	776,030	25,00	14,149	776,579	100,00
37+10.000	-2,568	775,329	-66,67	-1,600	775,974	5,00	-0,600	776,024	-2,00	775,608	775,606	776,036	0,428	11,980	776,276	2,00	12,580	776,288	2,00	13,580	776,038	25,00	14,158	776,616	100,00
37+15.000	-2,927	775,118	-66,67	-1,600	776,003	5,00	-0,600	776,053	-2,00	775,497	775,635	776,065	0,568	11,328	776,292	2,00	11,928	776,304	2,00	12,928	776,254	5,00	12,949	776,240	-66,67
37+16.468	-3,054	775,039	-66,67	-1,600	776,008	5,00	-0,600	776,058	-2,00	775,437	775,640	776,070	0,633	10,962	776,289	2,00	11,562	776,301	2,00	12,562	776,051	25,00	12,774	776,263	100,00
38+0.000	-2,827	775,195	-66,67	-1,600	776,013	5,00	-0,600	776,063	-2,00	775,599	775,645	776,075	0,476	10,048	776,276	2,00	10,648	776,288	2,00	11,648	776,238	5,00			
38+3.948	-2,696	775,277	-66,67	-1,600	776,008	5,00	-0,600	776,058	-2,00	775,721	775,640	776,070	0,349	9,324	776,256	2,00	9,924	776,268	2,00	10,924	776,218	5,00	11,065	776,124	-66,67
38+10.000	-2,565	775,334	-66,67	-1,600	775,977	5,00	-0,600	776,027	-2,00	775,785	775,609	776,039	0,254	8,446	776,208	2,00	9,046	776,220	2,00	10,046	775,970	25,00	10,556	776,481	100,00
39+0.000	-2,434	775,311	-66,67	-1,600	775,867	5,00	-0,600	775,917	-2,00	775,378	775,499	775,929	0,551	6,969	776,068	2,00	7,569	776,080	2,00	8,569	775,830	25,00	9,007	776,268	100,00
39+10.000	-2,476	775,122	-66,67	-1,600	775,707	5,00	-0,600	775,757	2,00	775,019	775,315	775,745	0,726	6,005	775,625	-2,00	6,605	775,613	-2,00	7,605	775,363	25,00	7,923	775,681	100,00
40+0.000	-1,754	775,359	-66,67	-1,600	775,462	5,00	-0,600	775,512	2,00	775,293	775,070	775,500	0,207	5,544	775,389	-2,00	6,144	775,377	-2,00	7,144	775,127	25,00	7,562	775,545	100,00
40+10.000	-1,712	775,237	-66,67	-1,600	775,311	5,00	-0,600	775,361	2,00	775,084	774,919	775,349	0,265	5,500	775,239	-2,00	6,100	775,227	-2,00	7,100	774,977	25,00	7,795	775,672	100,00
40+11.234	-1,679	775,250	-66,67	-1,600	775,303	5,00	-0,600	775,353	2,00	775,100	774,911	775,341	0,241	5,500	775,231	-2,00	6,100	775,219	-2,00	7,100	774,969	25,00	7,663	775,532	100,00

1.3.13 Agulha 1000

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 1000													
Estaca	EIXO				LADO DIREITO								
	COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1000+0,000	776,342	775,946	776,376	0,034				1,325	775,978	-56,62	2,252	776,212	-66,67
1000+10,000	776,407	776,004	776,434	0,027	0,100	776,011	2,00	1,425	776,038	-56,62	2,323	776,291	-66,67
1001+0,000	776,505	776,082	776,512	0,007	0,400	776,095	2,00	1,725	776,121	-56,62	2,758	776,285	-66,67
1001+10,000	776,593	776,175	776,605	0,012	0,901	776,198	2,00	2,226	776,224	-56,62	3,757	776,055	-66,67
1002+0,000	776,685	776,268	776,698	0,013	1,603	776,305	2,00	2,928	776,332	-56,62	4,179	776,350	-66,67
1002+10,000	776,766	776,362	776,792	0,026	2,506	776,417	2,00	3,831	776,444	-56,62	5,828	775,965	-66,67
1003+0,000	776,862	776,456	776,886	0,024	3,613	776,533	2,00	4,938	776,560	-56,62	6,987	776,046	-66,67
1003+7,233	776,937	776,524	776,954	0,017	4,541	776,620	2,00	5,866	776,646	-56,62	9,816	774,865	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 1000													
Estaca	EIXO				LADO DIREITO								
	COTAS				BORDO PISTA			ACOSTAMENTO			OFFSET		
	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1000+0,000	776,342	775,946	776,376	0,034				0,600	776,388	2,00	2,252	776,212	-66,67
1000+10,000	776,407	776,004	776,434	0,027	0,100	776,436	2,00	0,700	776,448	2,00	2,323	776,291	-66,67
1001+0,000	776,505	776,082	776,512	0,007	0,400	776,520	2,00	1,000	776,532	2,00	2,758	776,285	-66,67
1001+10,000	776,593	776,175	776,605	0,012	0,901	776,623	2,00	1,501	776,635	2,00	3,757	776,055	-66,67
1002+0,000	776,685	776,268	776,698	0,013	1,603	776,730	2,00	2,203	776,742	2,00	4,179	776,350	-66,67
1002+10,000	776,766	776,362	776,792	0,026	2,506	776,842	2,00	3,106	776,854	2,00	5,828	775,965	-66,67
1003+0,000	776,862	776,456	776,886	0,024	3,613	776,958	2,00	4,213	776,970	2,00	6,987	776,046	-66,67
1003+7,233	776,937	776,524	776,954	0,017	4,541	777,045	2,00	5,141	777,057	2,00	9,816	774,865	-66,67

1.3.14 Marginal Esquerda 1100

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL 1100 RODOVIA BR-277																											
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO										
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1104+15,847													774,197	777,298	777,728	3,531											
1104+19,447													774,381	777,327	777,757	3,376											
1105+0,000										-0,070	777,334	3,03	774,379	777,332	777,762	3,383	3,600	777,223	-3,030	4,325	777,201	-3,03	5,100	777,607	-3,07	10,643	773,912	-66,67
1105+3,296										-0,225	777,366	3,20	774,359	777,358	777,788	3,429	3,600	777,243	-3,200	4,325	777,220	-3,20	5,100	777,625	-3,20	10,501	774,025	-66,67
1105+5,447										-0,374	777,387	3,20	774,340	777,375	777,805	3,465	3,600	777,260	-3,200	4,325	777,237	-3,20	5,100	777,642	-3,20	10,510	774,036	-66,67
1105+9,296										-0,374	777,417	3,20	774,326	777,405	777,835	3,509	3,600	777,290	-3,200	4,325	777,266	-3,20	5,100	777,672	-3,20	10,510	774,065	-66,67
1105+12,896										-1,185	777,465	2,83	774,395	777,432	777,862	3,467	3,600	777,330	-2,830	4,325	777,309	-2,83	5,100	777,718	-2,80	10,617	774,039	-66,67
1106+0,000										-2,171	777,538	2,47	774,195	777,484	777,914	3,719	3,600	777,396	-2,470	4,325	777,378	-2,47	5,100	777,789	-2,47	10,714	774,046	-66,67
1106+10,000										-2,171	777,612	2,47	774,447	777,559	777,989	3,542	3,600	777,470	-2,470	4,325	777,452	-2,47	5,100	777,863	-2,47	10,714	774,120	-66,67
1107+0,000	-7,336	775,749	-66,67	-3,900	778,040	5,00	-3,125	777,701	2,16	-2,400	777,685	2,16	774,405	777,633	778,063	3,658	3,600	777,555	-2,160	4,325	777,539	-2,16	5,100	777,953	-2,13	10,598	774,287	-66,67
1107+5,776	-7,379	775,766	-66,67	-3,900	778,085	5,00	-3,125	777,747	2,27	-2,400	777,730	2,27	774,553	777,676	778,106	3,553	3,600	777,594	-2,270	4,325	777,578	-2,27	5,100	777,990	-2,27	10,532	774,369	-66,67
1107+10,975	-7,379	775,805	-66,67	-3,900	778,124	5,00	-3,125	777,786	2,27	-2,400	777,769	2,27	774,707	777,715	778,145	3,438	3,600	777,633	-2,270	4,325	777,616	-2,27	5,100	778,029	-2,27	10,532	774,408	-66,67
1107+12,975	-7,379	775,819	-66,67	-3,900	778,139	5,00	-3,125	777,800	2,27	-2,400	777,784	2,27	774,767	777,729	778,159	3,392	3,600	777,648	-2,270	4,325	777,631	-2,27	5,100	778,044	-2,27	10,532	774,423	-66,67
1108+0,000	-7,485	775,804	-66,67	-3,900	778,194	5,00	-3,125	777,857	2,40	-2,400	777,839	2,40	774,939	777,782	778,212	3,273	3,600	777,695	-2,400	4,325	777,678	-2,40	5,100	778,089	-2,40	10,403	774,554	-66,67
1108+5,000	-7,485	775,841	-66,67	-3,900	778,231	5,00	-3,125	777,894	2,40	-2,400	777,876	2,40	774,992	777,819	778,249	3,257	3,600	777,732	-2,400	4,325	777,715	-2,40	5,100	778,126	-2,40	10,403	774,591	-66,67
1108+8,900	-7,485	775,870	-66,67	-3,900	778,260	5,00	-3,125	777,923	2,40	-2,400	777,905	2,40	775,030	777,848	778,278	3,248	3,600	777,761	-2,400	4,325	777,744	-2,40	5,100	778,155	-2,40	10,403	774,620	-66,67
1108+10,900	-7,485	775,885	-66,67	-3,900	778,275	5,00	-3,125	777,938	2,40	-2,400	777,920	2,40	775,049	777,863	778,293	3,244	3,600	777,776	-2,400	4,325	777,759	-2,40	5,100	778,170	-2,40	10,403	774,635	-66,67
1108+16,099										-9,113	777,820	-0,89	775,094	777,901	778,331	3,237	3,600	777,933	0,890	4,325	777,940	0,89	5,100	778,377	0,93	10,549	774,744	-66,67
1109+0,000										-10,058	777,662	-2,67	775,201	777,930	778,360	3,159	3,600	778,026	2,670	4,325	778,046	2,67	5,100	778,497	2,73	10,623	774,815	-66,67
1109+9,364	-10,329	776,343	-66,67	-7,680	778,108	5,00	-6,905	777,724	-4,00	-6,180	777,753	-4,00	775,268	778,000	778,430	3,162	3,600	778,144	4,000	4,325	778,173	4,00						
1109+10,000	-10,329	776,347	-66,67	-7,680	778,113	5,00	-6,905	777,729	-4,00	-6,180	777,758	-4,00	775,267	778,005	778,435	3,168	3,600	778,149	4,000	4,325	778,178	4,00						
1109+12,436	-9,777	776,286	-66,67	-6,964	778,161	5,00	-6,189	777,777	-4,00	-5,464	777,806	-4,00	775,276	778,025	778,455	3,179	3,600	778,169	4,000	4,325	778,198	4,00	5,100	778,659	4,00	10,281	775,204	-66,67
1109+15,508	-8,952	776,216	-66,67	-5,936	778,227	5,00	-5,161	777,843	-4,00	-4,436	777,872	-4,00	775,320	778,050	778,480	3,160	3,600	778,194	4,000	4,325	778,223	4,00						
1110+0,000	-7,238	776,248	-66,67	-4,103	778,338	5,00	-3,328	777,954	-4,00	-2,603	777,983	-4,00	775,408	778,087	778,517	3,109	3,600	778,231	4,000	4,325	778,260	4,00	5,100	778,721	4,00	10,417	775,177	-66,67
1110+10,000	-7,238	776,339	-66,67	-4,103	778,429	5,00	-3,328	778,045	-4,00	-2,603	778,074	-4,00	775,727	778,178	778,608	2,881	3,600	778,322	4,000	4,325	778,351	4,00	5,100	778,812	4,00	10,417	775,268	-66,67
1111+0,000	-4,443	777,926	-66,67	-3,400	778,621	5,00	-2,625	778,262	-0,56	-1,900	778,266	-0,56	776,579	778,277	778,707	2,128	3,600	778,297	0,560	4,325	778,301	0,56	5,100	778,736	0,60	9,499	775,803	-66,67
1111+9,708	-4,366	778,116	-66,67	-3,400	778,760	5,00	-2,625	778,414	1,29	-1,900	778,405	1,29	777,925	778,380	778,810	0,885	3,600	778,334	-1,290	4,325	778,325	-1,29	5,100	778,745	-1,27	8,649	776,379	-66,67
1111+13,709	-4,366	778,159	-66,67	-3,400	778,803	5,00	-2,625	778,457	1,29	-1,900	778,448	1,29	778,020	778,424	778,854	0,834	3,600	778,377	-1,290	4,325	778,368	-1,29	5,100	778,788	-1,27	8,649	776,422	-66,67
1111+18,709	-4,366	778,213	-66,67	-3,400	778,857	5,00	-2,625	778,511	1,29	-1,900	778,502	1,29	778,133	778,478	778,908	0,775	3,600	778,431	-1,290	4,325	778,422	-1,29	5,100	778,842	-1,27	8,649	776,476	-66,67
1112+0,000	-4,247	778,339	-66,67	-3,400	778,904	5,00	-2,625	778,570	3,00	-1,900	778,549	3,00	778,161	778,492	778,922	0,761	3,600	778,384	-3,000	4,325	778,362	-3,00	5,100	778,769	-3,00	7,751	777,001	-66,67
1112+3,115	-4,182	778,416	-66,67	-3,400	778,937	5,00	-2,625	778,604	3,00	-1,900	778,582	3,00	778,217	778,525	778,955	0,738	3,600	778,417	-3,000	4,325	778,395	-3,00	5,100	778,802	-3,00	7,487	777,211	-66,67
1112+5,000	-4,182	778,436	-66,67	-3,400	778,958	5,00	-2,625	778,624	3,00	-1,900	778,603	3,00	778,283	778,546	778,976	0,693	3,600	778,438	-3,000	4,325	778,416	-3,00	5,100	778,823	-3,00	7,487	777,231	-66,67
1112+7,521	-4,182	778,464	-66,67	-3,400	778,985	5,00	-2,625	778,652	3,00	-1,900	778,630	3,00	778,283	778,573	779,003	0,720	3,600	778,465	-3,000	4,325	778,443	-3,00	5,100	778,850	-3,00	7,487	777,259	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL 1100 RODOVIA BR-277

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1112+12,521	-4,182	778,518	-66,67	-3,400	779,039	5,00	-2,625	778,706	3,00	-1,900	778,684	3,00	778,394	778,627	779,057	0,663	3,600	778,519	-3,000	4,325	778,497	-3,00	5,100	778,904	-3,00	7,487	777,313	-66,67
1112+16,521	-4,105	778,610	-66,67	-3,400	779,080	5,00	-2,625	778,745	2,87	-1,900	778,725	2,87	778,425	778,670	779,100	0,675	3,600	778,563	-2,970	4,325	778,541	-2,97	5,100	778,948	-3,00	6,707	777,877	-66,67
1113+0,000	-4,184	778,594	-66,67	-3,400	779,116	5,00	-2,625	778,782	2,81	-1,900	778,761	2,81	778,403	778,708	779,138	0,735	3,600	778,601	-2,960	4,325	778,580	-2,96	5,100	778,987		6,957	777,749	-66,67
1113+10,000	-4,184	778,702	-66,67	-3,400	779,224	5,00	-2,625	778,890	2,81	-1,900	778,869	2,81	778,513	778,816	779,246	0,733	3,600	778,709	-2,960	4,325	778,688	-2,96	5,100	779,095		6,957	777,857	-66,67
1114+0,000	-3,804	779,057	-66,67	-3,400	779,327	5,00	-2,625	778,990	2,52	-1,900	778,972	2,52	778,828	778,924	779,354	0,526	3,600	778,819	-2,900	4,325	778,798	-2,90	5,100	779,206	-2,87	6,358	778,367	-66,67
1114+10,000	-3,804	779,165	-66,67	-3,400	779,435	5,00	-2,625	779,098	2,52	-1,900	779,080	2,52	779,047	779,032	779,462	0,415	3,600	778,927	-2,900	4,325	778,906	-2,90	5,100	779,314	-2,87	6,358	778,475	-66,67
1115+0,000	-3,853	779,235	-66,67	-3,400	779,537	5,00	-2,625	779,198	2,22	-1,900	779,182	2,22	779,178	779,140	779,570	0,392	3,600	779,038	-2,840	4,325	779,017	-2,84	5,100	779,425	-2,87	6,119	778,745	-66,67
1115+10,000	-3,853	779,343	-66,67	-3,400	779,645	5,00	-2,625	779,306	2,22	-1,900	779,290	2,22	779,277	779,248	779,678	0,401	3,600	779,146	-2,840	4,325	779,125	-2,84	5,100	779,533	-2,87	6,119	778,853	-66,67
1116+0,000	-3,701	779,547	-66,67	-3,400	779,748	5,00	-2,625	779,407	1,92	-1,900	779,393	1,92	779,514	779,356	779,786	0,272	3,600	779,256	-2,780	4,325	779,236	-2,78	5,100	779,644	-2,80	5,585	779,321	-66,67
1116+10,000	-3,701	779,655	-66,67	-3,400	779,856	5,00	-2,625	779,515	1,92	-1,900	779,501	1,92	779,648	779,464	779,894	0,246	3,600	779,364	-2,780	4,325	779,344	-2,78	5,100	779,752	-2,80	5,585	779,429	-66,67
1117+0,000	-3,502	779,890	-66,67	-3,400	779,958	5,00	-2,625	779,615	1,62	-1,900	779,603	1,62	779,859	779,572	780,002	0,143	3,600	779,474	-2,720	4,325	779,454	-2,72	5,100	779,863	-2,73	5,360	779,690	-66,67
1117+10,000	-3,502	779,998	-66,67	-3,400	780,066	5,00	-2,625	779,723	1,62	-1,900	779,711	1,62	779,989	779,680	780,110	0,121	3,600	779,582	-2,720	4,325	779,563	-2,72	5,100	779,971	-2,73	5,360	779,798	-66,67
1118+0,000	-3,731	780,200	100,00	-3,400	779,869	25,00	-2,625	779,823	1,32	-1,900	779,814	1,32	780,121	779,788	780,218	0,097	3,600	779,693	-2,660	4,325	779,673	-2,66	5,100	780,083	-2,67	5,229	779,997	-66,67
1118+10,000	-3,731	780,308	100,00	-3,400	779,977	25,00	-2,625	779,931	1,32	-1,900	779,922	1,32	780,256	779,897	780,327	0,071	3,600	779,801	-2,660	4,325	779,781	-2,66	5,100	780,191	-2,67	5,229	780,105	-66,67
1119+0,000	-3,462	780,338	-66,67	-3,400	780,379	5,00	-2,625	780,032	1,03	-1,900	780,024	1,03	780,403	780,005	780,435	0,032	3,600	779,911	-2,610	4,325	779,892	-2,61	5,100	780,302	-2,60	5,152	780,267	-66,67
1119+10,000	-3,462	780,446	-66,67	-3,400	780,487	5,00	-2,625	780,140	1,03	-1,900	780,132	1,03	780,529	780,113	780,543	0,014	3,600	780,019	-2,610	4,325	780,000	-2,61	5,100	780,410	-2,60	5,152	780,375	-66,67
1120+0,000	-3,746	780,637	100,00	-3,400	780,290	25,00	-2,625	780,241	0,73	-1,900	780,235	0,73	780,624	780,222	780,652	0,028	3,600	780,130	-2,550	4,325	780,111	-2,55	5,100	780,185	-25,00	5,555	780,639	100,00
1120+10,000	-3,746	780,753	100,00	-3,400	780,407	25,00	-2,625	780,357	0,73	-1,900	780,352	0,73	780,720	780,338	780,768	0,048	3,600	780,246	-2,550	4,325	780,228	-2,55	5,100	780,301	-25,00	5,555	780,756	100,00
1121+0,000	-3,723	780,849	100,00	-3,400	780,526	25,00	-2,625	780,474	0,43	-1,900	780,471	0,43	780,838	780,463	780,893	0,055	3,600	780,373	-2,490	4,325	780,355	-2,49	5,100	780,428	-25,00	5,722	781,050	100,00
1121+10,000	-3,723	780,982	100,00	-3,400	780,660	25,00	-2,625	780,608	0,43	-1,900	780,605	0,43	781,004	780,596	781,026	0,022	3,600	780,507	-2,490	4,325	780,489	-2,49	5,100	780,562	-25,00	5,722	781,184	100,00
1122+0,000				-3,400	781,096	5,00	-2,625	780,742	0,13	-1,900	780,741	0,13	781,207	780,739	781,169	-0,038	3,600	780,652	-2,430	4,325	780,634	-2,43	5,100	780,707	-25,00	5,758	781,365	100,00
1122+10,000				-3,400	781,248	5,00	-2,625	780,894	0,13	-1,900	780,893	0,13	781,688	780,890	781,320	-0,368	3,600	780,803	-2,430	4,325	780,785	-2,43	5,100	780,858	-25,00	5,758	781,516	100,00
1123+0,000	-3,918	781,620	100,00	-3,400	781,102	25,00	-2,625	781,045	-0,16	-1,900	781,047	-0,16	781,910	781,050	781,480	-0,430	3,600	780,965	-2,370	4,325	780,947	-2,37	5,100	781,020	-25,00	7,230	783,149	100,00
1123+10,000	-3,918	781,778	100,00	-3,400	781,260	25,00	-2,625	781,204	-0,16	-1,900	781,205	-0,16	782,234	781,208	781,638	-0,596	3,600	781,123	-2,370	4,325	781,105	-2,37	5,100	781,178	-25,00	7,230	783,308	100,00
1124+0,000	-4,055	782,040	100,00	-3,400	781,385	25,00	-2,625	781,327	-0,46	-1,900	781,330	-0,46	782,328	781,339	781,769	-0,559	3,600	781,256	-2,310	4,325	781,239	-2,31	5,100	781,311	-25,00	6,865	783,076	100,00
1124+10,000	-4,055	782,138	100,00	-3,400	781,483	25,00	-2,625	781,424	-0,46	-1,900	781,428	-0,46	782,639	781,437	781,867	-0,772	3,600	781,354	-2,310	4,325	781,337	-2,31	5,100	781,409	-25,00	6,865	783,174	100,00
1125+0,000	-4,247	782,390	100,00	-3,400	781,542	25,00	-2,625	781,482	-0,76	-1,900	781,487	-0,76	782,651	781,502	781,932	-0,719	3,600	781,421	-2,250	4,325	781,404	-2,25	5,100	781,476	-25,00	6,767	783,143	100,00
1125+10,000	-4,247	782,422	100,00	-3,400	781,574	25,00	-2,625	781,514	-0,76	-1,900	781,519	-0,76	782,721	781,534	781,964	-0,757	3,600	781,453	-2,250	4,325	781,437	-2,25	5,100	781,508	-25,00	6,767	783,175	100,00
1126+0,000	-4,189	782,357	100,00	-3,400	781,568	25,00	-2,625	781,505	-1,06	-1,900	781,513	-1,06	782,709	781,533	781,963	-0,746	3,600	781,454	-2,190	4,325	781,438	-2,19	5,100	781,509	-25,00	6,595	783,004	100,00
1126+10,000	-4,189	782,324	100,00	-3,400	781,534	25,00	-2,625	781,472	-1,06	-1,900	781,479	-1,06	782,500	781,499	781,929	-0,571	3,600	781,421	-2,190	4,325	781,405	-2,19	5,100	781,476	-25,00	6,595	782,971	100,00
1127+0,000	-4,141	782,203	100,00	-3,400	781,462	25,00	-2,625	781,397	-1,36	-1,900	781,407	-1,36	782,395	781,433	781,863	-0,532	3,600	781,356	-2,130	4,325	781,341	-2,13	5,100	781,411	-25,00	6,395	782,706	100,00
1127+10,000	-4,141	782,103	100,00	-3,400	781,363	25,00	-2,625	781,298	-1,36	-1,900	781,308	-1,36	782,373	781,333	781,763	-0,610	3,600	781,257	-2,130	4,325	781,241	-2,13	5,100	781,312	-25,00	6,395	782,606	100,00
1128+0,000	-4,381	782,205	100,00	-3,400	781,225	25,00	-2,625	781,158	-1,65	-1,900	781,170	-1,65	782,395	781,201	781,631	-0,764	3,600	781,126	-2,070	4,325	781,111	-2,07	5,100	781,181	-25,00	6,400	782,481	100,00
1128+10,000	-4,381	782,040	100,00	-3,400	781,059	25,00	-2,625	780,992	-1,65	-1,900	781,004	-1,65	782,268	781,036	781,466	-0,802	3,600	780,961	-2,070	4,325	780,946	-2,07	5,100	781,016	-25,00	6,400	782,316	100,00

NOTA DE SERVIÇO DE TERRAPLENAGEM - MARGINAL 1100 RODOVIA BR-277

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO											
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1131+13,418	-4,076	780,101	100,00	-3,400	779,425	25,00	-2,625	780,786	-1,95	-1,900	780,800	-1,95	780,246	779,347	779,777	-0,469	3,600	780,765	-2,010	4,325	780,751	-2,01	5,100	780,820	-25,00	5,872	780,131	100,00
1131+15,000	-4,076	780,054	100,00	-3,400	779,377	25,00	-2,625	780,818	2,00	-1,900	780,804	2,00	780,198	779,300	779,730	-0,468	3,600	780,694	-2,000	4,325	780,679	-2,00	5,100	780,749	-25,00	5,872	780,084	100,00
1131+17,418	-4,076	779,981	100,00	-3,400	779,305	25,00	-2,625	780,659	2,00	-1,900	780,645	2,00	780,109	779,227	779,657	-0,452	3,600	780,535	-2,000	4,325	780,520	-2,00	5,100	780,590	-25,00	5,872	780,011	100,00
1131+17,494	-4,076	779,979	100,00	-3,400	779,303	25,00	-2,625	780,524		-1,900	780,524		780,106	779,225	779,655	-0,451	3,600	780,524		4,325	780,524		5,100	780,579	-25,00	5,872	780,009	100,00
1132+0,000	-3,643	780,015	100,00	-2,867	779,239	25,00	-2,625	780,318	-1,28	-1,900	780,328	-1,28	779,990	779,150	779,580	-0,410	3,600	780,398	1,280	4,325	780,407	1,28	5,100	780,453	-25,00	5,781	779,796	100,00
1132+2,418	-3,643	779,943	100,00	-2,867	779,167	25,00	-2,625	780,307	-1,35	-1,900	780,317	-1,35	779,905	779,077	779,507	-0,398	3,600	780,391	1,350	4,325	780,401	1,35	5,100	780,446	-25,00	5,781	779,723	100,00
1132+5,000	-3,643	779,865	100,00	-2,867	779,089	25,00	-2,625	780,163	-1,35	-1,900	780,173	-1,35	779,811	779,000	779,430	-0,381	3,600	780,247	1,350	4,325	780,257	1,35	5,100	780,302	-25,00	5,781	779,646	100,00
1132+6,917	-2,694	779,614	100,00	-2,095	779,015	25,00	-2,625	779,987	-3,20	-1,900	780,010	-3,20	779,727	778,942	779,372	-0,355	3,600	780,186	3,200	4,325	780,209	3,20	5,100	780,241	-25,00	5,698	779,487	100,00
1132+10,000	-2,694	779,520	100,00	-2,095	778,921	25,00	-2,625	779,965	-3,20	-1,900	779,988	-3,20	779,587	778,849	779,279	-0,308	3,600	780,164	3,200	4,325	780,187	3,20	5,100	780,219	-25,00	5,698	779,394	100,00
1132+11,416	-2,694	779,477	100,00	-2,095	778,878	25,00	-2,625	779,953	-3,20	-1,900	779,976	-3,20	779,523	778,805	779,235	-0,288	3,600	780,152	3,200	4,325	780,176	3,20	5,100	780,207	-25,00	5,698	779,350	100,00
1132+15,000	-2,694	779,365	100,00	-2,095	778,767	25,00	-2,625	779,920	-3,20	-1,900	779,943	-3,20	779,364	778,694	779,124	-0,240	3,600	780,119	3,200	4,325	780,142	3,20	5,100	780,174	-25,00	5,698	779,239	100,00
1132+16,416	-2,694	779,321	100,00	-2,095	778,722	25,00	-2,625	779,815	-3,20	-1,900	779,838	-3,20	779,303	778,649	779,079	-0,224	3,600	780,014	3,200	4,325	780,037	3,20	5,100	780,069	-25,00	5,698	779,194	100,00
1133+0,000	-1,969	779,059	100,00	-1,501	778,590	25,00	-2,625	779,710	-1,49	-1,900	779,721	-1,49	779,149	778,535	778,965	-0,184	3,600	779,803	1,490	4,325	779,814	1,49	5,100	779,858	-25,00	5,607	779,001	100,00
1133+0,416	-1,964	779,041	100,00	-1,500	778,577	25,00	-2,625	779,683	-1,28	-1,900	779,692	-1,28	779,132	778,522	778,952	-0,180	3,600	779,762	1,280	4,325	779,771	1,28	5,100	779,817	-25,00	5,607	778,988	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL 1100 RODOVIA BR-277

Estaca	LADO ESQUERDO						EIXO							LADO DIREITO								
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1104+15,847										774,197	777,298	777,728	3,531									
1104+19,447										774,381	777,327	777,757	3,376									
1105+0,000							-0,070	777,764	3,03	774,379	777,332	777,762	3,383	3,600	777,653	-3,03	5,100	777,607	-3,07	10,643	773,912	-66,67
1105+3,296							-0,225	777,796	3,20	774,359	777,358	777,788	3,429	3,600	777,673	-3,20	5,100	777,625	-3,20	10,501	774,025	-66,67
1105+5,447							-0,374	777,817	3,20	774,340	777,375	777,805	3,465	3,600	777,690	-3,20	5,100	777,642	-3,20	10,510	774,036	-66,67
1105+9,296							-0,374	777,847	3,20	774,326	777,405	777,835	3,509	3,600	777,720	-3,20	5,100	777,672	-3,20	10,510	774,065	-66,67
1105+12,896							-1,185	777,895	2,83	774,395	777,432	777,862	3,467	3,600	777,760	-2,83	5,100	777,718	-2,80	10,617	774,039	-66,67
1106+0,000							-2,171	777,968	2,47	774,195	777,484	777,914	3,719	3,600	777,826	-2,47	5,100	777,789	-2,47	10,714	774,046	-66,67
1106+10,000							-2,171	778,042	2,47	774,447	777,559	777,989	3,542	3,600	777,900	-2,47	5,100	777,863	-2,47	10,714	774,120	-66,67
1107+0,000	-7,336	775,749	-66,670	-3,900	778,040	5,00	-2,400	778,115	2,16	774,405	777,633	778,063	3,658	3,600	777,985	-2,16	5,100	777,953	-2,13	10,598	774,287	-66,67
1107+5,776	-7,379	775,766	-66,670	-3,900	778,085	5,00	-2,400	778,160	2,27	774,553	777,676	778,106	3,553	3,600	778,024	-2,27	5,100	777,990	-2,27	10,532	774,369	-66,67
1107+10,975	-7,379	775,805	-66,670	-3,900	778,124	5,00	-2,400	778,199	2,27	774,707	777,715	778,145	3,438	3,600	778,063	-2,27	5,100	778,029	-2,27	10,532	774,408	-66,67
1107+12,975	-7,379	775,819	-66,670	-3,900	778,139	5,00	-2,400	778,214	2,27	774,767	777,729	778,159	3,392	3,600	778,078	-2,27	5,100	778,044	-2,27	10,532	774,423	-66,67
1108+0,000	-7,485	775,804	-66,670	-3,900	778,194	5,00	-2,400	778,269	2,40	774,939	777,782	778,212	3,273	3,600	778,125	-2,40	5,100	778,089	-2,40	10,403	774,554	-66,67
1108+5,000	-7,485	775,841	-66,670	-3,900	778,231	5,00	-2,400	778,306	2,40	774,992	777,819	778,249	3,257	3,600	778,162	-2,40	5,100	778,126	-2,40	10,403	774,591	-66,67
1108+8,900	-7,485	775,870	-66,670	-3,900	778,260	5,00	-2,400	778,335	2,40	775,030	777,848	778,278	3,248	3,600	778,191	-2,40	5,100	778,155	-2,40	10,403	774,620	-66,67
1108+10,900	-7,485	775,885	-66,670	-3,900	778,275	5,00	-2,400	778,350	2,40	775,049	777,863	778,293	3,244	3,600	778,206	-2,40	5,100	778,170	-2,40	10,403	774,635	-66,67
1108+16,099							-9,113	778,250	-0,89	775,094	777,901	778,331	3,237	3,600	778,363	0,89	5,100	778,377	0,93	10,549	774,744	-66,67
1109+0,000							-10,058	778,092	-2,67	775,201	777,930	778,360	3,159	3,600	778,456	2,67	5,100	778,497	2,73	10,623	774,815	-66,67
1109+9,364	-10,329	776,343	-66,670	-7,680	778,108	5,00	-6,180	778,183	-4,00	775,268	778,000	778,430	3,162	3,600	778,574	4,00						
1109+10,000	-10,329	776,347	-66,670	-7,680	778,113	5,00	-6,180	778,188	-4,00	775,267	778,005	778,435	3,168	3,600	778,579	4,00						
1109+12,436	-9,777	776,286	-66,670	-6,964	778,161	5,00	-5,464	778,236	-4,00	775,276	778,025	778,455	3,179	3,600	778,599	4,00	5,100	778,659	4,00	10,281	775,204	-66,67
1109+15,508	-8,952	776,216	-66,670	-5,936	778,227	5,00	-4,436	778,302	-4,00	775,320	778,050	778,480	3,160	3,600	778,624	4,00						
1110+0,000	-7,238	776,248	-66,670	-4,103	778,338	5,00	-2,603	778,413	-4,00	775,408	778,087	778,517	3,109	3,600	778,661	4,00	5,100	778,721	4,00	10,417	775,177	-66,67
1110+10,000	-7,238	776,339	-66,670	-4,103	778,429	5,00	-2,603	778,504	-4,00	775,727	778,178	778,608	2,881	3,600	778,752	4,00	5,100	778,812	4,00	10,417	775,268	-66,67
1111+0,000	-4,443	777,926	-66,670	-3,400	778,621	5,00	-1,900	778,696	-0,56	776,579	778,277	778,707	2,128	3,600	778,727	0,56	5,100	778,736	0,60	9,499	775,803	-66,67
1111+9,708	-4,366	778,116	-66,670	-3,400	778,760	5,00	-1,900	778,835	1,29	777,925	778,380	778,810	0,885	3,600	778,764	-1,29	5,100	778,745	-1,27	8,649	776,379	-66,67
1111+13,709	-4,366	778,159	-66,670	-3,400	778,803	5,00	-1,900	778,878	1,29	778,020	778,424	778,854	0,834	3,600	778,807	-1,29	5,100	778,788	-1,27	8,649	776,422	-66,67
1111+18,709	-4,366	778,213	-66,670	-3,400	778,857	5,00	-1,900	778,932	1,29	778,133	778,478	778,908	0,775	3,600	778,861	-1,29	5,100	778,842	-1,27	8,649	776,476	-66,67
1112+0,000	-4,247	778,339	-66,670	-3,400	778,904	5,00	-1,900	778,979	3,00	778,161	778,492	778,922	0,761	3,600	778,814	-3,00	5,100	778,769	-3,00	7,751	777,001	-66,67
1112+3,115	-4,182	778,416	-66,670	-3,400	778,937	5,00	-1,900	779,012	3,00	778,217	778,525	778,955	0,738	3,600	778,847	-3,00	5,100	778,802	-3,00	7,487	777,211	-66,67
1112+5,000	-4,182	778,436	-66,670	-3,400	778,958	5,00	-1,900	779,033	3,00	778,283	778,546	778,976	0,693	3,600	778,868	-3,00	5,100	778,823	-3,00	7,487	777,231	-66,67
1112+7,521	-4,182	778,464	-66,670	-3,400	778,985	5,00	-1,900	779,060	3,00	778,283	778,573	779,003	0,720	3,600	778,895	-3,00	5,100	778,850	-3,00	7,487	777,259	-66,67
1112+12,521	-4,182	778,518	-66,670	-3,400	779,039	5,00	-1,900	779,114	3,00	778,394	778,627	779,057	0,663	3,600	778,949	-3,00	5,100	778,904	-3,00	7,487	777,313	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL 1100 RODOVIA BR-277

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO								
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1112+16,521	-4,105	778,610	-66,670	-3,400	779,080	5,00	-1,900	779,155	2,87	778,425	778,670	779,100	0,675	3,600	778,993	-2,97	5,100	778,948	-3,00	6,707	777,877	-66,67
1113+0,000	-4,184	778,594	-66,670	-3,400	779,116	5,00	-1,900	779,191	2,81	778,403	778,708	779,138	0,735	3,600	779,031	-2,96	5,100	778,987		6,957	777,749	-66,67
1113+10,000	-4,184	778,702	-66,670	-3,400	779,224	5,00	-1,900	779,299	2,81	778,513	778,816	779,246	0,733	3,600	779,139	-2,96	5,100	779,095		6,957	777,857	-66,67
1114+0,000	-3,804	779,057	-66,670	-3,400	779,327	5,00	-1,900	779,402	2,52	778,828	778,924	779,354	0,526	3,600	779,249	-2,90	5,100	779,206	-2,87	6,358	778,367	-66,67
1114+10,000	-3,804	779,165	-66,670	-3,400	779,435	5,00	-1,900	779,510	2,52	779,047	779,032	779,462	0,415	3,600	779,357	-2,90	5,100	779,314	-2,87	6,358	778,475	-66,67
1115+0,000	-3,853	779,235	-66,670	-3,400	779,537	5,00	-1,900	779,612	2,22	779,178	779,140	779,570	0,392	3,600	779,468	-2,84	5,100	779,425	-2,87	6,119	778,745	-66,67
1115+10,000	-3,853	779,343	-66,670	-3,400	779,645	5,00	-1,900	779,720	2,22	779,277	779,248	779,678	0,401	3,600	779,576	-2,84	5,100	779,533	-2,87	6,119	778,853	-66,67
1116+0,000	-3,701	779,547	-66,670	-3,400	779,748	5,00	-1,900	779,823	1,92	779,514	779,356	779,786	0,272	3,600	779,686	-2,78	5,100	779,644	-2,80	5,585	779,321	-66,67
1116+10,000	-3,701	779,655	-66,670	-3,400	779,856	5,00	-1,900	779,931	1,92	779,648	779,464	779,894	0,246	3,600	779,794	-2,78	5,100	779,752	-2,80	5,585	779,429	-66,67
1117+0,000	-3,502	779,890	-66,670	-3,400	779,958	5,00	-1,900	780,033	1,62	779,859	779,572	780,002	0,143	3,600	779,904	-2,72	5,100	779,863	-2,73	5,360	779,690	-66,67
1117+10,000	-3,502	779,998	-66,670	-3,400	780,066	5,00	-1,900	780,141	1,62	779,989	779,680	780,110	0,121	3,600	780,012	-2,72	5,100	779,971	-2,73	5,360	779,798	-66,67
1118+0,000	-3,731	780,200	100,000	-3,400	779,869	25,00	-1,900	780,244	1,32	780,121	779,788	780,218	0,097	3,600	780,123	-2,66	5,100	780,083	-2,67	5,229	779,997	-66,67
1118+10,000	-3,731	780,308	100,000	-3,400	779,977	25,00	-1,900	780,352	1,32	780,256	779,897	780,327	0,071	3,600	780,231	-2,66	5,100	780,191	-2,67	5,229	780,105	-66,67
1119+0,000	-3,462	780,338	-66,670	-3,400	780,379	5,00	-1,900	780,454	1,03	780,403	780,005	780,435	0,032	3,600	780,341	-2,61	5,100	780,302	-2,60	5,152	780,267	-66,67
1119+10,000	-3,462	780,446	-66,670	-3,400	780,487	5,00	-1,900	780,562	1,03	780,529	780,113	780,543	0,014	3,600	780,449	-2,61	5,100	780,410	-2,60	5,152	780,375	-66,67
1120+0,000	-3,746	780,637	100,000	-3,400	780,290	25,00	-1,900	780,665	0,73	780,624	780,222	780,652	0,028	3,600	780,560	-2,55	5,100	780,185	-25,00	5,555	780,639	100,00
1120+10,000	-3,746	780,753	100,000	-3,400	780,407	25,00	-1,900	780,782	0,73	780,720	780,338	780,768	0,048	3,600	780,676	-2,55	5,100	780,301	-25,00	5,555	780,756	100,00
1121+0,000	-3,723	780,849	100,000	-3,400	780,526	25,00	-1,900	780,901	0,43	780,838	780,463	780,893	0,055	3,600	780,803	-2,49	5,100	780,428	-25,00	5,722	781,050	100,00
1121+10,000	-3,723	780,982	100,000	-3,400	780,660	25,00	-1,900	781,035	0,43	781,004	780,596	781,026	0,022	3,600	780,937	-2,49	5,100	780,562	-25,00	5,722	781,184	100,00
1122+0,000				-3,400	781,096	5,00	-1,900	781,171	0,13	781,207	780,739	781,169	-0,038	3,600	781,082	-2,43	5,100	780,707	-25,00	5,758	781,365	100,00
1122+10,000				-3,400	781,248	5,00	-1,900	781,323	0,13	781,688	780,890	781,320	-0,368	3,600	781,233	-2,43	5,100	780,858	-25,00	5,758	781,516	100,00
1123+0,000	-3,918	781,620	100,000	-3,400	781,102	25,00	-1,900	781,477	-0,16	781,910	781,050	781,480	-0,430	3,600	781,395	-2,37	5,100	781,020	-25,00	7,230	783,149	100,00
1123+10,000	-3,918	781,778	100,000	-3,400	781,260	25,00	-1,900	781,635	-0,16	782,234	781,208	781,638	-0,596	3,600	781,553	-2,37	5,100	781,178	-25,00	7,230	783,308	100,00
1124+0,000	-4,055	782,040	100,000	-3,400	781,385	25,00	-1,900	781,760	-0,46	782,328	781,339	781,769	-0,559	3,600	781,686	-2,31	5,100	781,311	-25,00	6,865	783,076	100,00
1124+10,000	-4,055	782,138	100,000	-3,400	781,483	25,00	-1,900	781,858	-0,46	782,639	781,437	781,867	-0,772	3,600	781,784	-2,31	5,100	781,409	-25,00	6,865	783,174	100,00
1125+0,000	-4,247	782,390	100,000	-3,400	781,542	25,00	-1,900	781,917	-0,76	782,651	781,502	781,932	-0,719	3,600	781,851	-2,25	5,100	781,476	-25,00	6,767	783,143	100,00
1125+10,000	-4,247	782,422	100,000	-3,400	781,574	25,00	-1,900	781,949	-0,76	782,721	781,534	781,964	-0,757	3,600	781,883	-2,25	5,100	781,508	-25,00	6,767	783,175	100,00
1126+0,000	-4,189	782,357	100,000	-3,400	781,568	25,00	-1,900	781,943	-1,06	782,709	781,533	781,963	-0,746	3,600	781,884	-2,19	5,100	781,509	-25,00	6,595	783,004	100,00
1126+10,000	-4,189	782,324	100,000	-3,400	781,534	25,00	-1,900	781,909	-1,06	782,500	781,499	781,929	-0,571	3,600	781,851	-2,19	5,100	781,476	-25,00	6,595	782,971	100,00
1127+0,000	-4,141	782,203	100,000	-3,400	781,462	25,00	-1,900	781,837	-1,36	782,395	781,433	781,863	-0,532	3,600	781,786	-2,13	5,100	781,411	-25,00	6,395	782,706	100,00
1127+10,000	-4,141	782,103	100,000	-3,400	781,363	25,00	-1,900	781,738	-1,36	782,373	781,333	781,763	-0,610	3,600	781,687	-2,13	5,100	781,312	-25,00	6,395	782,606	100,00
1128+0,000	-4,381	782,205	100,000	-3,400	781,225	25,00	-1,900	781,600	-1,65	782,395	781,201	781,631	-0,764	3,600	781,556	-2,07	5,100	781,181	-25,00	6,400	782,481	100,00
1128+10,000	-4,381	782,040	100,000	-3,400	781,059	25,00	-1,900	781,434	-1,65	782,268	781,036	781,466	-0,802	3,600	781,391	-2,07	5,100	781,016	-25,00	6,400	782,316	100,00
1129+0,000	-4,413	781,869	100,000	-3,400	780,855	25,00	-1,900	781,230	-1,95	781,852	780,838	781,268	-0,584	3,600	781,195	-2,01	5,100	780,820	-25,00	6,063	781,783	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - MARGINAL 1100 RODOVIA BR-277

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO								
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			FOLGA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1129+3,267	-4,245	781,704	100,000	-3,400	780,859	25,00	-1,900	781,234	2,00	781,688	780,766	781,196	-0,492	3,600	781,124	-2,00	5,100	780,749	-25,00	6,051	781,699	100,00
1129+10,000	-4,245	781,544	100,000	-3,400	780,700	25,00	-1,900	781,075	2,00	781,527	780,607	781,037	-0,490	3,600	780,965	-2,00	5,100	780,590	-25,00	6,051	781,540	100,00
1129+13,267	-4,205	781,384	100,000	-3,400	780,579	25,00	-1,900	780,954		781,468	780,524	780,954	-0,514	3,600	780,954		5,100	780,579	-25,00	5,961	781,440	100,00
1129+19,667	-4,346	781,329	100,000	-3,400	780,383	25,00	-1,900	780,758	-1,28	781,322	780,352	780,782	-0,540	3,600	780,828	1,28	5,100	780,453	-25,00	5,906	781,259	100,00
1130+0,000	-4,350	781,322	100,000	-3,400	780,372	25,00	-1,900	780,747	-1,35	781,316	780,343	780,773	-0,543	3,600	780,821	1,35	5,100	780,446	-25,00	5,903	781,249	100,00
1130+5,000	-4,350	781,177	100,000	-3,400	780,228	25,00	-1,900	780,603	-1,35	781,210	780,198	780,628	-0,582	3,600	780,677	1,35	5,100	780,302	-25,00	5,903	781,105	100,00
1130+9,267	-4,494	781,159	100,000	-3,400	780,065	25,00	-1,900	780,440	-3,20	781,101	780,071	780,501	-0,600	3,600	780,616	3,20	5,100	780,241	-25,00	5,852	780,993	100,00
1130+10,000	-4,494	781,137	100,000	-3,400	780,043	25,00	-1,900	780,418	-3,20	781,078	780,049	780,479	-0,599	3,600	780,594	3,20	5,100	780,219	-25,00	5,852	780,971	100,00
1130+10,381	-4,494	781,125	100,000	-3,400	780,031	25,00	-1,900	780,406	-3,20	781,066	780,037	780,467	-0,599	3,600	780,582	3,20	5,100	780,207	-25,00	5,860	780,967	100,00
1130+11,494	-4,459	781,057	100,000	-3,400	779,998	25,00	-1,900	780,373	-3,20	781,030	780,004	780,434	-0,596	3,600	780,549	3,20	5,100	780,174	-25,00	5,867	780,941	100,00
1130+15,000	-4,459	780,952	100,000	-3,400	779,893	25,00	-1,900	780,268	-3,20	780,654	779,899	780,329	-0,325	3,600	780,444	3,20	5,100	780,069	-25,00	5,867	780,836	100,00
1131+0,000	-4,027	780,403	100,000	-3,400	779,776	25,00	-1,900	780,151	-1,49	780,547	779,749	780,179	-0,368	3,600	780,233	1,49	5,100	779,858	-25,00	5,865	780,623	100,00
1131+1,094	-4,032	780,379	100,000	-3,400	779,747	25,00	-1,900	780,122	-1,28	780,523	779,716	780,146	-0,377	3,600	780,192	1,28	5,100	779,817	-25,00	5,864	780,581	100,00
1131+7,494	-4,055	780,235	100,000	-3,400	779,580	25,00	-1,900	779,955	0,01	780,379	779,524	779,954	-0,425	3,600	779,954	-0,01	5,100	779,579	-25,00	5,868	780,347	100,00
1131+10,000	-4,055	780,160	100,000	-3,400	779,505	25,00	-1,900	779,880	0,01	780,323	779,449	779,879	-0,444	3,600	779,879	-0,01	5,100	779,504	-25,00	5,868	780,272	100,00
1131+13,418	-4,076	780,101	100,000	-3,400	779,425	25,00	-1,900	779,800	1,20	780,246	779,347	779,777	-0,469	3,600	779,734	-1,20	5,100	779,359	-25,00	5,872	780,131	100,00
1131+15,000	-4,076	780,054	100,000	-3,400	779,377	25,00	-1,900	779,752	1,20	780,198	779,300	779,730	-0,468	3,600	779,687	-1,20	5,100	779,312	-25,00	5,872	780,084	100,00
1131+17,418	-4,076	779,981	100,000	-3,400	779,305	25,00	-1,900	779,680	1,20	780,109	779,227	779,657	-0,452	3,600	779,614	-1,20	5,100	779,239	-25,00	5,872	780,011	100,00
1131+17,494	-4,076	779,979	100,000	-3,400	779,303	25,00	-1,900	779,678	1,20	780,106	779,225	779,655	-0,451	3,600	779,612	-1,20	5,100	779,237	-25,00	5,872	780,009	100,00
1132+0,000	-3,643	780,015	100,000	-2,867	779,239	25,00	-1,367	779,614	2,52	779,990	779,150	779,580	-0,410	3,600	779,489	-2,52	5,100	779,114	-25,00	5,781	779,796	100,00
1132+2,418	-3,643	779,943	100,000	-2,867	779,167	25,00	-1,367	779,542	2,52	779,905	779,077	779,507	-0,398	3,600	779,417	-2,52	5,100	779,042	-25,00	5,781	779,723	100,00
1132+5,000	-3,643	779,865	100,000	-2,867	779,089	25,00	-1,367	779,464	2,52	779,811	779,000	779,430	-0,381	3,600	779,339	-2,52	5,100	778,964	-25,00	5,781	779,646	100,00
1132+6,917	-2,694	779,614	100,000	-2,095	779,015	25,00	-0,595	779,390	3,00	779,727	778,942	779,372	-0,355	3,600	779,264	-3,00	5,100	778,889	-25,00	5,698	779,487	100,00
1132+10,000	-2,694	779,520	100,000	-2,095	778,921	25,00	-0,595	779,296	3,00	779,587	778,849	779,279	-0,308	3,600	779,171	-3,00	5,100	778,796	-25,00	5,698	779,394	100,00
1132+11,416	-2,694	779,477	100,000	-2,095	778,878	25,00	-0,595	779,253	3,00	779,523	778,805	779,235	-0,288	3,600	779,127	-3,00	5,100	778,752	-25,00	5,698	779,350	100,00
1132+15,000	-2,694	779,365	100,000	-2,095	778,767	25,00	-0,595	779,142	3,00	779,364	778,694	779,124	-0,240	3,600	779,016	-3,00	5,100	778,641	-25,00	5,698	779,239	100,00
1132+16,416	-2,694	779,321	100,000	-2,095	778,722	25,00	-0,595	779,097	3,00	779,303	778,649	779,079	-0,224	3,600	778,971	-3,00	5,100	778,596	-25,00	5,698	779,194	100,00
1133+0,000	-1,969	779,059	100,000	-1,501	778,590	25,00	-0,001	778,965	2,66	779,149	778,535	778,965	-0,184	3,600	778,869	-2,66	5,100	778,494	-25,00	5,607	779,001	100,00
1133+0,416	-1,964	779,041	100,000	-1,500	778,577	25,00		778,952	2,00	779,132	778,522	778,952	-0,180	3,600	778,857	-2,64	5,100	778,482	-25,00	5,607	778,988	100,00

1.3.15 Taper e retorno 1200

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 1200													
Estaca	EIXO				LADO DIREITO								
	COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1202+0,858	778,659	778,358	778,788	0,129									
1202+10,000	778,749	778,411	778,841	0,092	5,800	778,300	-2,00	6,525	778,286	-2,00	8,768	777,671	-66,67
1203+0,000	778,846	778,468	778,898	0,052	3,601	778,401	-2,00	4,326	778,387	-2,00	5,333	778,596	-66,67
1203+10,000	778,943	778,525	778,955	0,012	3,601	778,458	-2,00	4,326	778,443	-2,00	5,333	778,653	-66,67
1204+0,000	779,044	778,595	779,025	-0,019	3,600	778,528	-2,00	4,325	778,513	-2,00	5,330	778,724	-66,67
1204+10,000	779,149	778,691	779,121	-0,028	3,599	778,624	-2,00	4,325	778,610	-2,00	5,339	778,815	-66,67
1205+0,000	779,260	778,800	779,230	-0,030	3,599	778,734	-2,00	4,324	778,719	-2,00	5,416	778,873	-66,67
1205+10,000	779,359	778,910	779,340	-0,019	3,599	778,843	-2,00	4,324	778,828	-2,00	5,406	778,988	-66,67
1206+0,000	779,462	779,019	779,449	-0,013	3,598	778,952	-2,00	4,324	778,938	-2,00	5,198	779,236	-66,67
1206+10,000	779,574	779,128	779,558	-0,016	3,598	779,061	-2,00	4,323	779,047	-2,00	5,232	779,323	-66,67
1207+0,000	779,684	779,238	779,668	-0,016	3,598	779,171	-2,00	4,323	779,156	-2,00	5,124	779,503	-66,67
1207+10,000	779,795	779,347	779,777	-0,018	3,598	779,280	-2,00	4,323	779,266	-2,00	5,356	779,458	-66,67
1208+0,000	779,912	779,456	779,886	-0,026	3,203	779,397	-2,00	3,928	779,383	-2,00	4,809	779,677	-66,67
1208+10,000	780,060	779,566	779,996	-0,064	2,802	779,515	-2,00	3,527	779,500	-2,00	4,647	779,909	100,00
1209+0,000	780,149	779,675	780,105	-0,044	2,402	779,632	-2,00	3,127	779,617	-2,00	4,007	779,912	-66,67
1209+10,000	780,235	779,784	780,214	-0,021	2,002	779,749	-2,00	2,727	779,735	-2,00	3,602	780,032	-66,67
1210+0,000	780,344	779,894	780,324	-0,020	1,601	779,867	-2,00	2,326	779,852	-2,00	3,216	780,140	-66,67
1210+10,000	780,490	780,003	780,433	-0,057	1,201	779,984	-2,00	1,926	779,969	-2,00	2,893	780,206	-66,67
1211+0,000	780,569	780,112	780,542	-0,027	0,801	780,101	-2,00	1,526	780,087	-2,00	2,385	780,395	-66,67
1211+10,000	780,734	780,221	780,651	-0,083	0,400	780,218	-2,00	1,125	780,204	-2,00	2,371	780,739	100,00
1212+0,000	780,871	780,331	780,761	-0,110				0,725	780,321	-2,00	1,856	780,741	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 1200

Estaca	EIXO				LADO DIREITO					
	COTAS				BORDO PISTA			OFFSET		
	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1202+0,858	778,659	778,358	778,788	0,129						
1202+10,000	778,749	778,411	778,841	0,092	5,800	778,725	-2,00	8,768	777,671	-66,670
1203+0,000	778,846	778,468	778,898	0,052	3,601	778,826	-2,00	5,333	778,596	-66,670
1203+10,000	778,943	778,525	778,955	0,012	3,601	778,883	-2,00	5,333	778,653	-66,670
1204+0,000	779,044	778,595	779,025	-0,019	3,600	778,953	-2,00	5,330	778,724	-66,670
1204+10,000	779,149	778,691	779,121	-0,028	3,599	779,049	-2,00	5,339	778,815	-66,670
1205+0,000	779,260	778,800	779,230	-0,030	3,599	779,159	-2,00	5,416	778,873	-66,670
1205+10,000	779,359	778,910	779,340	-0,019	3,599	779,268	-2,00	5,406	778,988	-66,670
1206+0,000	779,462	779,019	779,449	-0,013	3,598	779,377	-2,00	5,198	779,236	-66,670
1206+10,000	779,574	779,128	779,558	-0,016	3,598	779,486	-2,00	5,232	779,323	-66,670
1207+0,000	779,684	779,238	779,668	-0,016	3,598	779,596	-2,00	5,124	779,503	-66,670
1207+10,000	779,795	779,347	779,777	-0,018	3,598	779,705	-2,00	5,356	779,458	-66,670
1208+0,000	779,912	779,456	779,886	-0,026	3,203	779,822	-2,00	4,809	779,677	-66,670
1208+10,000	780,060	779,566	779,996	-0,064	2,802	779,940	-2,00	4,647	779,909	100,000
1209+0,000	780,149	779,675	780,105	-0,044	2,402	780,057	-2,00	4,007	779,912	-66,670
1209+10,000	780,235	779,784	780,214	-0,021	2,002	780,174	-2,00	3,602	780,032	-66,670
1210+0,000	780,344	779,894	780,324	-0,020	1,601	780,292	-2,00	3,216	780,140	-66,670
1210+10,000	780,490	780,003	780,433	-0,057	1,201	780,409	-2,00	2,893	780,206	-66,670
1211+0,000	780,569	780,112	780,542	-0,027	0,801	780,526	-2,00	2,385	780,395	-66,670
1211+10,000	780,734	780,221	780,651	-0,083	0,400	780,643	-2,00	2,371	780,739	100,000
1212+0,000	780,871	780,331	780,761	-0,110				1,856	780,741	100,000

1.3.16 Agulha de acesso 1300

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 1300																									
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1300+0,000	-4,499	773,584	100,00	-4,000	773,085	25,00	-3,225	772,919	-5,00				773,599	773,080	773,510	-0,089									
1300+10,000	-4,392	773,080	-66,67	-4,000	773,342	5,00	-3,225	772,893	-5,00	-0,600	773,025	-2,00	773,558	773,037	773,467	-0,091									
1301+0,000	-4,361	773,388	100,00	-4,000	773,026	25,00	-3,225	772,896	-5,00	-1,200	772,997	-2,00	773,519	773,021	773,451	-0,068									
1301+10,000	-4,383	773,085	-66,67	-4,000	773,341	5,00	-3,225	772,929	-5,00	-1,800	773,000	-2,00	773,516	773,036	773,466	-0,050									
1302+0,000	-4,079	773,332	-66,67	-4,000	773,385	5,00	-3,225	772,990	-5,00	-2,400	773,032	-2,00	773,520	773,080	773,510	-0,010									
1302+10,000	-4,852	773,206	-66,67	-4,500	773,441	5,00	-3,725	773,050	-5,00	-3,000	773,086	-2,00	773,590	773,146	773,576	-0,014									
1303+0,000	-5,139	773,471	-66,67	-5,100	773,498	5,00	-4,325	773,106	-5,00	-3,600	773,143	-2,00	773,665	773,215	773,645	-0,020									
1303+10,000	-5,139	773,540	-66,67	-5,100	773,566	5,00	-4,325	773,174	-5,00	-3,600	773,211	-2,00	773,729	773,283	773,713	-0,016									
1304+0,000	-6,187	773,809	100,00	-5,700	773,322	25,00	-4,925	773,231	-5,00	-4,200	773,267	-2,00	773,792	773,351	773,781	-0,011									
1304+10,000	-5,860	773,583	-66,67	-5,700	773,690	5,00	-4,925	773,299	-5,00	-4,200	773,335	-2,00	773,854	773,419	773,849	-0,005									
1305+0,000	-6,164	773,449	-66,67	-5,700	773,758	5,00	-4,925	773,367	-5,00	-4,200	773,403	-2,00	773,917	773,487	773,917										
1305+10,000	-6,243	774,070	100,00	-5,700	773,527	25,00	-4,925	773,435	-5,00	-4,200	773,472	-2,00	773,986	773,556	773,986										
1306+0,000	-6,370	774,265	100,00	-5,700	773,595	25,00	-4,925	773,503	-5,00	-4,200	773,540	-2,00	774,058	773,624	774,054	-0,004									
1306+10,000	-6,149	773,664	-66,67	-5,700	773,963	5,00	-4,925	773,572	-5,00	-4,200	773,608	-2,00	774,150	773,692	774,122	-0,028									
1307+0,000	-6,294	774,325	100,00	-5,700	773,731	25,00	-4,925	773,647	-3,96	-4,200	773,676	-2,00	774,228	773,760	774,190	-0,038									
1307+10,000	-5,997	773,902	-66,67	-5,700	774,099	5,00	-4,925	773,729	-2,06	-4,200	773,744	-2,00	774,282	773,828	774,258	-0,024									
1308+0,000	-6,116	774,284	100,00	-5,700	773,868	25,00	-4,925	773,794	-2,62	-4,200	773,813	-2,00	774,338	773,897	774,327	-0,011									
1308+9,204	-6,138	773,938	-66,67	-5,700	774,230	5,00	-4,925	773,852	-3,20	-4,200	773,875	-2,00	774,390	773,959	774,389	-0,001									
1308+10,000	-6,164	773,923	-66,67	-5,695	774,236	5,00	-4,920	773,857	-3,25	-4,195	773,881	-2,00	774,395	773,965	774,395		0,005	773,965	2,00	0,730	773,988	3,25	1,590	774,387	-66,67
1309+0,000	-5,838	774,370	100,00	-5,481	774,013	25,00	-4,706	773,930	-3,89	-3,981	773,958	-2,00	774,449	774,038	774,468	0,019	0,985	774,058	2,00	1,710	774,086	3,89	2,614	774,460	-66,67
1309+2,992	-6,066	774,694	100,00	-5,415	774,043	25,00	-4,640	773,959	-4,00	-3,915	773,988	-2,00	774,466	774,067	774,497	0,031	1,620	774,099	2,00	2,345	774,128	4,00	3,286	774,478	-66,67
1309+10,000	-6,227	775,096	100,00	-5,262	774,130	25,00	-4,487	774,057	-2,50	-3,762	774,075	-2,00	774,419	774,151	774,581	0,162	3,304	774,217	2,00	4,029	774,235	2,50	5,025	774,536	-66,67
1309+16,779	-6,135	775,256	100,00	-5,115	774,236	25,00	-4,340	774,176	-0,74	-3,615	774,181	-2,00	774,313	774,254	774,684	0,371	2,900	774,312	2,00	3,625	774,317	0,74	4,724	774,537	-66,67
1310+0,000	-6,072	775,261	100,00	-5,103	774,293	25,00	-4,328	774,239	0,09	-3,603	774,238	-2,00	774,163	774,310	774,740	0,577	2,900	774,368	2,00	3,625	774,367	-0,09	4,768	774,551	-66,67
1310+2,354	-6,183	775,264	100,00	-5,252	774,333	25,00	-4,477	774,284	0,70	-3,752	774,278	-2,00	774,923	774,353	774,783	-0,140	2,911	774,412	2,00	3,636	774,407	-0,70	4,949	774,472	-66,67
1310+10,000	-14,991	775,468	100,00	-13,813	774,291	25,00	-13,038	774,255	2,67	-12,313	774,236	-2,00	775,240	774,482	774,912	-0,328	3,035	774,542	2,00	3,760	774,523	-2,67	5,094	774,559	-66,67
1311+0,000	-14,561	775,469	100,00	-13,516	774,423	25,00	-12,741	774,396	3,80	-12,016	774,368	-2,00	775,160	774,609	775,039	-0,121	3,199	774,673	2,00	3,924	774,645	-3,80	4,826	774,961	-66,67
1311+0,737	-14,360	775,481	100,00	-13,314	774,435	25,00	-12,539	774,407	3,80	-11,814	774,380	-2,00	775,161	774,616	775,046	-0,115	3,211	774,680	2,00	3,936	774,653	-3,80	4,807	774,989	-66,67
1311+10,000	-6,202	775,321	100,00	-5,546	774,665	25,00	-4,771	774,633	3,25	-4,046	774,610	-2,00	775,181	774,691	775,121	-0,060	3,363	774,758	2,00	4,088	774,734	-3,25	5,171	774,934	-66,67
1311+19,121	-11,145	775,503	100,00	-10,275	774,633	25,00	-9,500	774,589	1,52	-8,775	774,578	-2,00	775,025	774,753	775,183	0,158	3,500	774,823	2,00	4,225	774,812	-1,52	5,465	774,921	-66,67
1312+0,000	-11,142	775,514	100,00	-10,267	774,639	25,00	-9,492	774,594	1,35	-8,767	774,584	-2,00	775,035	774,759	775,189	0,154	3,500	774,829	2,00	4,225	774,820	-1,35	5,563	774,864	-66,67
1312+10,000	-11,103	775,637	100,00	-10,176	774,710	25,00	-9,401	774,651	-0,55	-8,676	774,655	-2,00	775,147	774,828	775,258	0,111	3,500	774,898	2,00	4,225	774,902	0,55	5,699	774,871	-66,67
1312+12,296	-11,094	775,665	100,00	-10,155	774,726	25,00	-9,380	774,635	-5,00	-8,655	774,671	-2,00	775,172	774,844	775,274	0,102	3,500	774,914	2,00	4,225	774,878	-5,00	5,733	774,886	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 1300

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO					
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1300+0,000	-4,499	773,584	100,000	-4,000	773,085	25,00	-2,500	773,460	-2,00				773,599	773,080	773,510	-0,089						
1300+10,000	-4,392	773,080	-66,670	-4,000	773,342	5,00	-2,500	773,417	-2,00	-0,600	773,455	-2,00	773,558	773,037	773,467	-0,091						
1301+0,000	-4,361	773,388	100,000	-4,000	773,026	25,00	-2,500	773,401	-2,00	-1,200	773,427	-2,00	773,519	773,021	773,451	-0,068						
1301+10,000	-4,383	773,085	-66,670	-4,000	773,341	5,00	-2,500	773,416	-2,00	-1,800	773,430	-2,00	773,516	773,036	773,466	-0,050						
1302+0,000	-4,079	773,332	-66,670	-4,000	773,385	5,00	-2,500	773,460	-2,00	-2,400	773,462	-2,00	773,520	773,080	773,510	-0,010						
1302+10,000	-4,852	773,206	-66,670	-4,500	773,441	5,00				-3,000	773,516	-2,00	773,590	773,146	773,576	-0,014						
1303+0,000	-5,139	773,471	-66,670	-5,100	773,498	5,00				-3,600	773,573	-2,00	773,665	773,215	773,645	-0,020						
1303+10,000	-5,139	773,540	-66,670	-5,100	773,566	5,00				-3,600	773,641	-2,00	773,729	773,283	773,713	-0,016						
1304+0,000	-6,187	773,809	100,000	-5,700	773,322	25,00				-4,200	773,697	-2,00	773,792	773,351	773,781	-0,011						
1304+10,000	-5,860	773,583	-66,670	-5,700	773,690	5,00				-4,200	773,765	-2,00	773,854	773,419	773,849	-0,005						
1305+0,000	-6,164	773,449	-66,670	-5,700	773,758	5,00				-4,200	773,833	-2,00	773,917	773,487	773,917							
1305+10,000	-6,243	774,070	100,000	-5,700	773,527	25,00				-4,200	773,902	-2,00	773,986	773,556	773,986							
1306+0,000	-6,370	774,265	100,000	-5,700	773,595	25,00				-4,200	773,970	-2,00	774,058	773,624	774,054	-0,004						
1306+10,000	-6,149	773,664	-66,670	-5,700	773,963	5,00				-4,200	774,038	-2,00	774,150	773,692	774,122	-0,028						
1307+0,000	-6,294	774,325	100,000	-5,700	773,731	25,00				-4,200	774,106	-2,00	774,228	773,760	774,190	-0,038						
1307+10,000	-5,997	773,902	-66,670	-5,700	774,099	5,00				-4,200	774,174	-2,00	774,282	773,828	774,258	-0,024						
1308+0,000	-6,116	774,284	100,000	-5,700	773,868	25,00				-4,200	774,243	-2,00	774,338	773,897	774,327	-0,011						
1308+9,204	-6,138	773,938	-66,670	-5,700	774,230	5,00				-4,200	774,305	-2,00	774,390	773,959	774,389	-0,001						
1308+10,000	-6,164	773,923	-66,670	-5,695	774,236	5,00				-4,195	774,311	-2,00	774,395	773,965	774,395		0,005	774,395	2,00	1,590	774,387	-66,670
1309+0,000	-5,838	774,370	100,000	-5,481	774,013	25,00				-3,981	774,388	-2,00	774,449	774,038	774,468	0,019	0,985	774,488	2,00	2,614	774,460	-66,670
1309+2,992	-6,066	774,694	100,000	-5,415	774,043	25,00				-3,915	774,418	-2,00	774,466	774,067	774,497	0,031	1,620	774,529	2,00	3,286	774,478	-66,670
1309+10,000	-6,227	775,096	100,000	-5,262	774,130	25,00				-3,762	774,505	-2,00	774,419	774,151	774,581	0,162	3,304	774,647	2,00	5,025	774,536	-66,670
1309+16,779	-6,135	775,256	100,000	-5,115	774,236	25,00				-3,615	774,611	-2,00	774,313	774,254	774,684	0,371	2,900	774,742	2,00	4,724	774,537	-66,670
1310+0,000	-6,072	775,261	100,000	-5,103	774,293	25,00				-3,603	774,668	-2,00	774,163	774,310	774,740	0,577	2,900	774,798	2,00	4,768	774,551	-66,670
1310+2,354	-6,183	775,264	100,000	-5,252	774,333	25,00				-3,752	774,708	-2,00	774,923	774,353	774,783	-0,140	2,911	774,842	2,00	4,949	774,472	-66,670
1310+10,000	-14,991	775,468	100,000	-13,813	774,291	25,00				-12,313	774,666	-2,00	775,240	774,482	774,912	-0,328	3,035	774,972	2,00	5,094	774,559	-66,670
1311+0,000	-14,561	775,469	100,000	-13,516	774,423	25,00				-12,016	774,798	-2,00	775,160	774,609	775,039	-0,121	3,199	775,103	2,00	4,826	774,961	-66,670
1311+0,737	-14,360	775,481	100,000	-13,314	774,435	25,00				-11,814	774,810	-2,00	775,161	774,616	775,046	-0,115	3,211	775,110	2,00	4,807	774,989	-66,670
1311+10,000	-6,202	775,321	100,000	-5,546	774,665	25,00				-4,046	775,040	-2,00	775,181	774,691	775,121	-0,060	3,363	775,188	2,00	5,171	774,934	-66,670
1311+19,121	-11,145	775,503	100,000	-10,275	774,633	25,00				-8,775	775,008	-2,00	775,025	774,753	775,183	0,158	3,500	775,253	2,00	5,465	774,921	-66,670
1312+0,000	-11,142	775,514	100,000	-10,267	774,639	25,00				-8,767	775,014	-2,00	775,035	774,759	775,189	0,154	3,500	775,259	2,00	5,563	774,864	-66,670
1312+10,000	-11,103	775,637	100,000	-10,176	774,710	25,00				-8,676	775,085	-2,00	775,147	774,828	775,258	0,111	3,500	775,328	2,00	5,699	774,871	-66,670
1312+12,296	-11,094	775,665	100,000	-10,155	774,726	25,00				-8,655	775,101	-2,00	775,172	774,844	775,274	0,102	3,500	775,344	2,000	5,733	774,886	-66,670

1.3.17 Agulha de acesso 1400

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 1400																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1400+0,000													775,448	775,206	775,636	0,188	3,500	775,276	2,00	4,225	775,265	-1,60	5,481	775,362	-66,67
1400+5,000													775,549	775,236	775,666	0,117	3,500	775,306	2,00	4,225	775,287	-2,55	5,315	775,487	-66,67
1400+10,000													775,654	775,264	775,694	0,040	3,500	775,334	2,00	4,225	775,309	-3,50	5,274	775,529	-66,67
1400+14,692													775,701	775,280	775,710	0,009	3,500	775,350	2,00	4,225	775,321	-4,00	5,242	775,559	-66,67
1400+15,000													775,704	775,280	775,710	0,006	3,500	775,350	2,00	4,225	775,321	-4,00	5,240	775,560	-66,67
1401+0,000													775,738	775,278	775,708	-0,030	3,500	775,348	2,00	4,225	775,325	-3,25	5,230	775,576	-66,67
1401+5,000	-3,480	775,793	100,00	-2,971	775,284	25,00	-2,196	775,244	2,08	-1,471	775,229	-2,00	775,733	775,258	775,688	-0,045	3,500	775,328	2,00	4,225	775,313	-2,08	5,222	775,579	-66,67
1401+9,384	-5,669	775,827	100,00	-5,051	775,209	25,00	-4,276	775,162	1,05	-3,551	775,154	-2,00	775,712	775,225	775,655	-0,057	3,500	775,295	2,00	4,225	775,287	-1,05	5,204	775,573	-66,67
1401+10,000	-5,993	775,832	100,00	-5,359	775,197	25,00	-4,584	775,149	0,91	-3,859	775,142	-2,00	775,708	775,219	775,649	-0,059	3,500	775,289	2,00	4,225	775,283	-0,91	5,245	775,542	-66,67
1401+18,372	-4,641	775,705	100,00	-4,078	775,142	25,00	-3,303	775,079	-1,05	-2,578	775,087	-2,00	775,409	775,139	775,569	0,160	3,500	775,209	2,00	4,225	775,216	1,05	5,360	775,414	-66,67
1402+0,000	-4,718	775,692	100,00	-4,156	775,130	25,00	-3,381	775,065	-1,43	-2,656	775,075	-2,00	775,373	775,128	775,558	0,185	3,523	775,199	2,00	4,248	775,209	1,43	5,295	775,469	-66,67
1402+5,000	-4,934	775,659	100,00	-4,384	775,109	25,00	-3,609	775,035	-2,60	-2,884	775,054	-2,00	775,395	775,112	775,542	0,147	3,889	775,189	2,00	4,614	775,208	2,60	5,545	775,555	-66,67
1402+10,000	-5,130	775,648	100,00	-4,593	775,111	25,00	-3,818	775,029	-3,77	-3,093	775,056	-2,00	775,536	775,118	775,548	0,012	2,239	775,163	2,00	2,964	775,190	3,77	3,790	775,616	-66,67
1402+12,254	-5,218	775,657	100,00	-4,681	775,120	25,00	-3,906	775,036	-4,00	-3,181	775,065	-2,00	775,588	775,129	775,559	-0,029	1,642	775,162	2,00	2,367	775,191	4,00	3,150	775,647	-66,67
1402+15,000	-5,362	775,717	100,00	-4,782	775,137	25,00	-4,007	775,054	-3,91	-3,282	775,082	-2,00	775,645	775,148	775,578	-0,067	1,045	775,169	2,00	1,770	775,197	3,91	3,006	775,684	100,00
1403+0,000	-5,603	775,841	100,00	-4,948	775,187	25,00	-4,173	775,106	-3,59	-3,448	775,132	-2,00	775,734	775,201	775,631	-0,103	0,307	775,207	2,00	1,032	775,233	3,59	2,293	775,749	100,00
1403+5,000	-5,726	775,897	100,00	-5,090	775,261	25,00	-4,315	775,182	-3,27	-3,590	775,206	-2,00	775,805	775,278	775,708	-0,097				0,725	775,301	3,27	1,975	775,808	100,00
1403+6,136	-5,655	775,835	100,00	-5,100	775,281	25,00	-4,325	775,202	-3,20	-3,600	775,226	-2,00	775,818	775,298	775,728	-0,090									
1403+10,000	-5,478	775,727	100,00	-5,100	775,349	25,00	-4,325	775,272	-2,95	-3,600	775,294	-2,00	775,862	775,366	775,796	-0,066									
1404+0,000	-5,609	776,034	100,00	-5,100	775,525	25,00	-4,325	775,452	-2,48	-3,600	775,470	-2,00	776,013	775,542	775,972	-0,041									
1404+10,000	-5,119	775,988	-66,67	-5,100	776,001	5,00	-4,325	775,623	-3,11	-3,600	775,646	-2,00	776,166	775,718	776,148	-0,018									
1405+0,000	-4,752	776,101	-66,67	-4,625	776,186	5,00	-3,850	775,799	-4,45	-3,125	775,831	-2,00	776,345	775,894	776,324	-0,021									
1405+10,000	-4,161	776,339	-66,67	-4,111	776,373	5,00	-3,336	775,981	-5,00	-2,611	776,018	-2,00	776,518	776,070	776,500	-0,018									
1406+0,000	-4,420	776,670	100,00	-4,000	776,251	25,00	-3,225	776,147	-5,00	-2,096	776,204	-2,00	776,667	776,246	776,676	0,009									
1406+10,000	-4,183	776,605	-66,67	-4,000	776,727	5,00	-3,225	776,308	-5,00	-1,582	776,390	-2,00	776,825	776,422	776,852	0,027									
1407+0,000	-4,329	776,931	100,00	-4,000	776,603	25,00	-3,225	776,469	-5,00	-1,068	776,577	-2,00	777,030	776,598	777,028	-0,002									
1407+10,000	-4,294	777,073	100,00	-4,000	776,779	25,00	-3,225	776,629	-5,00	-0,553	776,763	-2,00	777,221	776,774	777,204	-0,017									
1408+0,000	-4,304	777,259	100,00	-4,000	776,955	25,00	-3,225	776,790	-5,00	-0,039	776,949	-2,00	777,381	776,950	777,380	-0,001									
1408+0,762	-4,304	777,273	100,00	-4,000	776,968	25,00	-3,225	776,803	-5,00	-0,039	776,963	-2,00	777,393	776,963	777,393										

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 1400

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO					
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1400+0,000													775,448	775,206	775,636	0,188	3,500	775,706	2,00	5,481	775,362	-66,670
1400+5,000													775,549	775,236	775,666	0,117	3,500	775,736	2,00	5,315	775,487	-66,670
1400+10,000													775,654	775,264	775,694	0,040	3,500	775,764	2,00	5,274	775,529	-66,670
1400+14,692													775,701	775,280	775,710	0,009	3,500	775,780	2,00	5,242	775,559	-66,670
1400+15,000													775,704	775,280	775,710	0,006	3,500	775,780	2,00	5,240	775,560	-66,670
1401+0,000													775,738	775,278	775,708	-0,030	3,500	775,778	2,00	5,230	775,576	-66,670
1401+5,000	-3,480	775,793	100,000	-2,971	775,284	25,00				-1,471	775,659	-2,00	775,733	775,258	775,688	-0,045	3,500	775,758	2,00	5,222	775,579	-66,670
1401+9,384	-5,669	775,827	100,000	-5,051	775,209	25,00				-3,551	775,584	-2,00	775,712	775,225	775,655	-0,057	3,500	775,725	2,00	5,204	775,573	-66,670
1401+10,000	-5,993	775,832	100,000	-5,359	775,197	25,00				-3,859	775,572	-2,00	775,708	775,219	775,649	-0,059	3,500	775,719	2,00	5,245	775,542	-66,670
1401+18,372	-4,641	775,705	100,000	-4,078	775,142	25,00				-2,578	775,517	-2,00	775,409	775,139	775,569	0,160	3,500	775,639	2,00	5,360	775,414	-66,670
1402+0,000	-4,718	775,692	100,000	-4,156	775,130	25,00				-2,656	775,505	-2,00	775,373	775,128	775,558	0,185	3,523	775,629	2,00	5,295	775,469	-66,670
1402+5,000	-4,934	775,659	100,000	-4,384	775,109	25,00				-2,884	775,484	-2,00	775,395	775,112	775,542	0,147	3,889	775,619	2,00	5,545	775,555	-66,670
1402+10,000	-5,130	775,648	100,000	-4,593	775,111	25,00				-3,093	775,486	-2,00	775,536	775,118	775,548	0,012	2,239	775,593	2,00	3,790	775,616	-66,670
1402+12,254	-5,218	775,657	100,000	-4,681	775,120	25,00				-3,181	775,495	-2,00	775,588	775,129	775,559	-0,029	1,642	775,592	2,00	3,150	775,647	-66,670
1402+15,000	-5,362	775,717	100,000	-4,782	775,137	25,00				-3,282	775,512	-2,00	775,645	775,148	775,578	-0,067	1,045	775,599	2,00	3,006	775,684	100,000
1403+0,000	-5,603	775,841	100,000	-4,948	775,187	25,00				-3,448	775,562	-2,00	775,734	775,201	775,631	-0,103	0,307	775,637	2,00	2,293	775,749	100,000
1403+5,000	-5,726	775,897	100,000	-5,090	775,261	25,00				-3,590	775,636	-2,00	775,805	775,278	775,708	-0,097				1,975	775,808	100,000
1403+6,136	-5,655	775,835	100,000	-5,100	775,281	25,00				-3,600	775,656	-2,00	775,818	775,298	775,728	-0,090						
1403+10,000	-5,478	775,727	100,000	-5,100	775,349	25,00				-3,600	775,724	-2,00	775,862	775,366	775,796	-0,066						
1404+0,000	-5,609	776,034	100,000	-5,100	775,525	25,00				-3,600	775,900	-2,00	776,013	775,542	775,972	-0,041						
1404+10,000	-5,119	775,988	-66,670	-5,100	776,001	5,00				-3,600	776,076	-2,00	776,166	775,718	776,148	-0,018						
1405+0,000	-4,752	776,101	-66,670	-4,625	776,186	5,00				-3,125	776,261	-2,00	776,345	775,894	776,324	-0,021						
1405+10,000	-4,161	776,339	-66,670	-4,111	776,373	5,00				-2,611	776,448	-2,00	776,518	776,070	776,500	-0,018						
1406+0,000	-4,420	776,670	100,000	-4,000	776,251	25,00	-2,500	776,626	-2,00	-2,096	776,634	-2,00	776,667	776,246	776,676	0,009						
1406+10,000	-4,183	776,605	-66,670	-4,000	776,727	5,00	-2,500	776,802	-2,00	-1,582	776,820	-2,00	776,825	776,422	776,852	0,027						
1407+0,000	-4,329	776,931	100,000	-4,000	776,603	25,00	-2,500	776,978	-2,00	-1,068	777,007	-2,00	777,030	776,598	777,028	-0,002						
1407+10,000	-4,294	777,073	100,000	-4,000	776,779	25,00	-2,500	777,154	-2,00	-0,553	777,193	-2,00	777,221	776,774	777,204	-0,017						
1408+0,000	-4,304	777,259	100,000	-4,000	776,955	25,00	-2,500	777,330	-2,00	-0,039	777,379	-2,00	777,381	776,950	777,380	-0,001						
1408+0,762	-4,304	777,273	100,000	-4,000	776,968	25,00	-2,500	777,343	-2,00	-0,039	777,393	-2,00	777,393	776,963	777,393							

1.3.18 Agulha de acesso 1700

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 1700																									
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1700+0,000	-4,428	776,710	-66,67	-4,000	776,996	5,00	-3,225	776,530	-5,00				777,121	776,691	777,121										
1700+10,000	-4,212	777,079	-66,67	-4,000	777,220	5,00	-3,225	776,769	-5,00	-0,513	776,905	-2,00	777,334	776,915	777,345	0,011									
1701+0,000	-4,607	777,039	-66,67	-4,000	777,443	5,00	-3,225	777,008	-5,00	-1,027	777,118	-2,00	777,543	777,138	777,568	0,025									
1701+10,000	-4,177	777,549	-66,67	-4,000	777,667	5,00	-3,225	777,247	-5,00	-1,542	777,331	-2,00	777,753	777,362	777,792	0,039									
1702+0,000	-4,054	777,858	-66,67	-4,000	777,894	5,00	-3,225	777,489	-5,00	-2,056	777,548	-2,00	777,995	777,589	778,019	0,024									
1702+10,000	-4,114	778,111	-66,67	-4,071	778,140	5,00				-2,571	777,785	-2,00	778,251	777,836	778,266	0,015									
1703+0,000	-4,914	778,429	100,00	-4,585	778,101	25,00				-3,085	778,046	-2,00	778,555	778,108	778,538	-0,017									
1703+10,000	-5,475	778,760	100,00	-5,100	778,386	25,00	-4,325	778,294	-5,00	-3,600	778,331	-2,00	778,864	778,403	778,833	-0,031									
1704+0,000	-5,503	779,105	100,00	-5,100	778,702	25,00	-4,325	778,610	-5,00	-3,600	778,647	-2,00	779,191	778,719	779,149	-0,042									
1704+10,000	-5,509	779,428	100,00	-5,100	779,019	25,00	-4,325	778,928	-5,00	-3,600	778,964	-2,00	779,506	779,036	779,466	-0,040									
1704+16,164	-5,502	779,611	100,00	-5,099	779,208	25,00	-4,324	779,117	-5,00	-3,599	779,153	-2,00	779,683	779,225	779,655	-0,028									
1705+0,000	-5,520	779,743	100,00	-5,100	779,323	25,00	-4,325	779,232	-5,00	-3,600	779,268	-2,00	779,794	779,340	779,770	-0,024									
1705+10,000	-5,648	780,162	100,00	-5,100	779,614	25,00	-4,325	779,522	-5,00	-3,600	779,559	-2,00	780,078	779,631	780,061	-0,017									
1706+0,000	-5,534	780,323	100,00	-5,100	779,889	25,00	-4,325	779,798	-5,00	-3,600	779,834	-2,00	780,344	779,906	780,336	-0,008									
1706+10,000	-5,674	780,726	100,00	-5,100	780,153	25,00	-4,325	780,061	-5,00	-3,600	780,098	-2,00	780,614	780,170	780,600	-0,014									
1706+15,347	-5,713	780,905	100,00	-5,100	780,292	25,00	-4,325	780,201	-5,00	-3,600	780,237	-2,00	780,757	780,309	780,739	-0,018									
1707+0,000	-5,587	780,902	100,00	-5,100	780,414	25,00	-4,325	780,323	-4,98	-3,600	780,359	-2,00	780,881	780,431	780,861	-0,020									
1707+10,000	-5,632	781,207	100,00	-5,100	780,675	25,00	-4,325	780,598	-3,07	-3,600	780,620	-2,00	781,086	780,692	781,122	0,036									
1708+0,000	-5,646	781,483	100,00	-5,100	780,937	25,00	-4,325	780,865	-2,28	-3,600	780,882	-2,00	781,324	780,954	781,384	0,060									
1708+10,000	-5,681	781,777	100,00	-5,100	781,196	25,00	-4,325	781,120	-2,91	-3,600	781,141	-2,00	781,595	781,213	781,643	0,048									
1708+14,531	-5,656	781,864	100,00	-5,100	781,308	25,00	-4,325	781,230	-3,20	-3,600	781,253	-2,00	781,718	781,325	781,755	0,037									
1708+14,537	-5,656	781,864	100,00	-5,100	781,308	25,00	-4,325	781,230	-3,20	-3,600	781,253	-2,00	781,718	781,325	781,755	0,037									
1709+0,000	-5,630	781,968	100,00	-5,100	781,438	25,00	-4,325	781,358	-3,55	-3,600	781,383	-2,00	781,864	781,455	781,885	0,021	0,261	781,461	2,00	0,986	781,486	3,55	1,827	781,900	-66,67
1709+8,376	-5,587	782,114	100,00	-5,100	781,627	25,00	-4,325	781,543	-4,00	-3,600	781,572	-2,00	782,025	781,644	782,074	0,049	1,603	781,676	2,00	2,328	781,705	4,00	3,174	782,119	-66,67
1709+10,000	-5,593	782,154	100,00	-5,100	781,662	25,00	-4,325	781,578	-3,98	-3,600	781,607	-2,00	782,052	781,679	782,109	0,057	2,003	781,719	2,00	2,728	781,748	3,98	3,571	782,163	-66,67
1710+0,000	-5,598	782,366	100,00	-5,100	781,868	25,00	-4,325	781,789	-3,34	-3,600	781,813	-2,00	782,229	781,885	782,315	0,086	3,821	781,962	2,00	4,546	781,986	3,34	5,457	782,352	-66,67
1710+2,215	-5,528	782,342	100,00	-5,100	781,914	25,00	-4,325	781,836	-3,20	-3,600	781,859	-2,00	782,283	781,931	782,361	0,078	3,599	782,003	2,00	4,324	782,026	3,20	5,292	782,352	-66,67
1710+10,000	-5,405	782,378	100,00	-5,100	782,073	25,00	-4,325	781,998	-2,71	-3,600	782,018	-2,00	782,443	782,090	782,520	0,077	3,024	782,150	2,00	3,749	782,170	2,71	4,616	782,559	-66,67
1710+18,031	-5,405	782,542	100,00	-5,100	782,237	25,00	-4,325	782,146	-5,00	-3,600	782,182	-2,00	782,563	782,254	782,684	0,121	3,500	782,324	2,00	4,225	782,288	-5,00	5,195	782,653	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 1700

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO					
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1700+0,000	-4,428	776,710	-66,670	-4,000	776,996	5,00	-2,500	777,071	-2,00				777,121	776,691	777,121							
1700+10,000	-4,212	777,079	-66,670	-4,000	777,220	5,00	-2,500	777,295	-2,00	-0,513	777,335	-2,00	777,334	776,915	777,345	0,011						
1701+0,000	-4,607	777,039	-66,670	-4,000	777,443	5,00	-2,500	777,518	-2,00	-1,027	777,548	-2,00	777,543	777,138	777,568	0,025						
1701+10,000	-4,177	777,549	-66,670	-4,000	777,667	5,00	-2,500	777,742	-2,00	-1,542	777,761	-2,00	777,753	777,362	777,792	0,039						
1702+0,000	-4,054	777,858	-66,670	-4,000	777,894	5,00	-2,500	777,969	-2,00	-2,056	777,978	-2,00	777,995	777,589	778,019	0,024						
1702+10,000	-4,114	778,111	-66,670	-4,071	778,140	5,00				-2,571	778,215	-2,00	778,251	777,836	778,266	0,015						
1703+0,000	-4,914	778,429	100,000	-4,585	778,101	25,00				-3,085	778,476	-2,00	778,555	778,108	778,538	-0,017						
1703+10,000	-5,475	778,760	100,000	-5,100	778,386	25,00				-3,600	778,761	-2,00	778,864	778,403	778,833	-0,031						
1704+0,000	-5,503	779,105	100,000	-5,100	778,702	25,00				-3,600	779,077	-2,00	779,191	778,719	779,149	-0,042						
1704+10,000	-5,509	779,428	100,000	-5,100	779,019	25,00				-3,600	779,394	-2,00	779,506	779,036	779,466	-0,040						
1704+16,164	-5,502	779,611	100,000	-5,099	779,208	25,00				-3,599	779,583	-2,00	779,683	779,225	779,655	-0,028						
1705+0,000	-5,520	779,743	100,000	-5,100	779,323	25,00				-3,600	779,698	-2,00	779,794	779,340	779,770	-0,024						
1705+10,000	-5,648	780,162	100,000	-5,100	779,614	25,00				-3,600	779,989	-2,00	780,078	779,631	780,061	-0,017						
1706+0,000	-5,534	780,323	100,000	-5,100	779,889	25,00				-3,600	780,264	-2,00	780,344	779,906	780,336	-0,008						
1706+10,000	-5,674	780,726	100,000	-5,100	780,153	25,00				-3,600	780,528	-2,00	780,614	780,170	780,600	-0,014						
1706+15,347	-5,713	780,905	100,000	-5,100	780,292	25,00				-3,600	780,667	-2,00	780,757	780,309	780,739	-0,018						
1707+0,000	-5,587	780,902	100,000	-5,100	780,414	25,00				-3,600	780,789	-2,00	780,881	780,431	780,861	-0,020						
1707+10,000	-5,632	781,207	100,000	-5,100	780,675	25,00				-3,600	781,050	-2,00	781,086	780,692	781,122	0,036						
1708+0,000	-5,646	781,483	100,000	-5,100	780,937	25,00				-3,600	781,312	-2,00	781,324	780,954	781,384	0,060						
1708+10,000	-5,681	781,777	100,000	-5,100	781,196	25,00				-3,600	781,571	-2,00	781,595	781,213	781,643	0,048						
1708+14,531	-5,656	781,864	100,000	-5,100	781,308	25,00				-3,600	781,683	-2,00	781,718	781,325	781,755	0,037						
1708+14,537	-5,656	781,864	100,000	-5,100	781,308	25,00				-3,600	781,683	-2,00	781,718	781,325	781,755	0,037						
1709+0,000	-5,630	781,968	100,000	-5,100	781,438	25,00				-3,600	781,813	-2,00	781,864	781,455	781,885	0,021	0,261	781,891	2,00	1,827	781,900	-66,670
1709+8,376	-5,587	782,114	100,000	-5,100	781,627	25,00				-3,600	782,002	-2,00	782,025	781,644	782,074	0,049	1,603	782,106	2,00	3,174	782,119	-66,670
1709+10,000	-5,593	782,154	100,000	-5,100	781,662	25,00				-3,600	782,037	-2,00	782,052	781,679	782,109	0,057	2,003	782,149	2,00	3,571	782,163	-66,670
1710+0,000	-5,598	782,366	100,000	-5,100	781,868	25,00				-3,600	782,243	-2,00	782,229	781,885	782,315	0,086	3,821	782,392	2,00	5,457	782,352	-66,670
1710+2,215	-5,528	782,342	100,000	-5,100	781,914	25,00				-3,600	782,289	-2,00	782,283	781,931	782,361	0,078	3,599	782,433	2,00	5,292	782,352	-66,670
1710+10,000	-5,405	782,378	100,000	-5,100	782,073	25,00				-3,600	782,448	-2,00	782,443	782,090	782,520	0,077	3,024	782,580	2,00	4,616	782,559	-66,670
1710+18,031	-5,405	782,542	100,000	-5,100	782,237	25,00				-3,600	782,612	-2,00	782,563	782,254	782,684	0,121	3,500	782,754	2,00	5,195	782,653	-66,670

1.3.19 Agulha de acesso 1600

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 1600																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO							
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1600+0,000	-5,508	783,787	100,00	-5,100	783,379	25,00	-4,325	783,289	-4,82	-3,600	783,324	-2,00	783,824	783,396	783,826	0,002	2,350	783,443	2,00	3,075	783,418	-3,40	3,860	783,896	-66,67
1600+10,000	-5,340	783,841	-66,67	-5,100	784,000	5,00	-4,325	783,613	-4,50	-3,600	783,645	-2,00	783,941	783,717	784,147	0,206	3,515	783,788	2,00	4,240	783,784	-0,48	5,325	784,026	-66,67
1601+0,000	-7,635	783,949	-66,67	-7,137	784,281	5,00	-6,362	783,896	-4,17	-5,637	783,926	-2,00	784,162	784,039	784,469	0,307	4,244	784,124	2,00	4,969	784,142	2,44	6,117	784,349	-66,67
1601+9,176	-5,570	784,259	-66,67	-5,099	784,573	5,00	-4,325	784,189	-4,00	-3,599	784,218	-2,00	784,524	784,290	784,720	0,196	3,497	784,360	2,00	4,222	784,389	4,00	5,369	784,602	-66,67
1601+10,000	-5,602	784,256	-66,67	-5,100	784,591	5,00	-4,325	784,207	-4,00	-3,600	784,236	-2,00	784,536	784,308	784,738	0,202	3,356	784,375	2,00	4,081	784,404	4,00	5,238	784,610	-66,67
1601+13,554	-5,720	784,247	-66,67	-5,100	784,661	5,00	-4,325	784,277	-4,00	-3,600	784,306	-2,00	784,593	784,378	784,808	0,215	3,031	784,438	2,00	3,756	784,467	4,00	4,849	784,717	-66,67
1601+15,000	-5,748	784,253	-66,67	-5,100	784,685	5,00	-4,325	784,301	-4,00	-3,600	784,330	-2,00	784,631	784,402	784,832	0,201	2,843	784,459	2,00	3,569	784,488	4,00	4,633	784,757	-66,67
1601+17,932	-5,818	784,250	-66,67	-5,100	784,729	5,00	-4,325	784,345	-4,00	-3,600	784,374	-2,00	784,700	784,446	784,876	0,176	1,846	784,483	2,00	2,571	784,512	4,00	3,592	784,808	-66,67
1602+0,000	-5,872	784,239	-66,67	-5,100	784,754	5,00	-4,325	784,370	-4,00	-3,600	784,399	-2,00	784,731	784,471	784,901	0,170	1,368	784,498	2,00	2,094	784,527	4,00	3,092	784,839	-66,67
1602+5,000	-5,955	784,238	-66,67	-5,100	784,808	5,00	-4,325	784,424	-4,00	-3,600	784,453	-2,00	784,780	784,525	784,955	0,175	0,519	784,536	2,00	1,244	784,565	4,00	2,232	784,884	-66,67
1602+5,379	-5,958	784,240	-66,67	-5,100	784,813	5,00	-4,325	784,429	-4,00	-3,600	784,458	-2,00	784,783	784,530	784,960	0,177	0,471	784,539	2,00	1,196	784,568	4,00	2,185	784,886	-66,67
1602+10,000	-5,827	784,379	-66,67	-5,100	784,863	5,00	-4,325	784,479	-4,00	-3,600	784,508	-2,00	784,798	784,580	785,010	0,212	0,079	784,582	2,00	0,804	784,611	4,00	1,792	784,930	-66,67
1602+12,827	-5,827	784,410	-66,67	-5,100	784,894	5,00	-4,325	784,510	-4,00	-3,600	784,539	-2,00	784,809	784,611	785,041	0,232	0,079	784,613	2,00	0,804	784,642	4,00	1,792	784,961	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 1600																						
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO					
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
1600+0,000	-5,508	783,787	100,00	-5,100	783,379	25,00				-3,600	783,754	-2,00	783,824	783,396	783,826	0,002	2,350	783,873	2,00	3,860	783,896	-66,67
1600+10,000	-5,340	783,841	-66,67	-5,100	784,000	5,00				-3,600	784,075	-2,00	783,941	783,717	784,147	0,206	3,515	784,218	2,00	5,325	784,026	-66,67
1601+0,000	-7,635	783,949	-66,67	-7,137	784,281	5,00				-5,637	784,356	-2,00	784,162	784,039	784,469	0,307	4,244	784,554	2,00	6,117	784,349	-66,67
1601+9,176	-5,570	784,259	-66,67	-5,099	784,573	5,00				-3,599	784,648	-2,00	784,524	784,290	784,720	0,196	3,497	784,790	2,00	5,369	784,602	-66,67
1601+10,000	-5,602	784,256	-66,67	-5,100	784,591	5,00				-3,600	784,666	-2,00	784,536	784,308	784,738	0,202	3,356	784,805	2,00	5,238	784,610	-66,67
1601+13,554	-5,720	784,247	-66,67	-5,100	784,661	5,00				-3,600	784,736	-2,00	784,593	784,378	784,808	0,215	3,031	784,868	2,00	4,849	784,717	-66,67
1601+15,000	-5,748	784,253	-66,67	-5,100	784,685	5,00				-3,600	784,760	-2,00	784,631	784,402	784,832	0,201	2,843	784,889	2,00	4,633	784,757	-66,67
1601+17,932	-5,818	784,250	-66,67	-5,100	784,729	5,00				-3,600	784,804	-2,00	784,700	784,446	784,876	0,176	1,846	784,913	2,00	3,592	784,808	-66,67
1602+0,000	-5,872	784,239	-66,67	-5,100	784,754	5,00				-3,600	784,829	-2,00	784,731	784,471	784,901	0,170	1,368	784,928	2,00	3,092	784,839	-66,67
1602+5,000	-5,955	784,238	-66,67	-5,100	784,808	5,00				-3,600	784,883	-2,00	784,780	784,525	784,955	0,175	0,519	784,966	2,00	2,232	784,884	-66,67
1602+5,379	-5,958	784,240	-66,67	-5,100	784,813	5,00				-3,600	784,888	-2,00	784,783	784,530	784,960	0,177	0,471	784,969	2,00	2,185	784,886	-66,67
1602+10,000	-5,827	784,379	-66,67	-5,100	784,863	5,00				-3,600	784,938	-2,00	784,798	784,580	785,010	0,212	0,079	785,012	2,00	1,792	784,930	-66,67
1602+12,827	-5,827	784,410	-66,67	-5,100	784,894	5,00				-3,600	784,969	-2,00	784,809	784,611	785,041	0,232	0,079	785,043	2,00	1,792	784,961	-66,67

1.3.20 Marginal Show Rural 0050

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 50																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
0+0,000	-11,093	775,665	100,00	-10,155	774,726	25,00	-9,380	774,657	-2,00	-8,655	774,671	-2,00	775,172	774,844	775,274	0,102	3,500	774,774	-2,000	4,225	774,760	-2,00	5,338	774,904	-66,67
0+10,000	-11,011	775,744	100,00	-10,064	774,797	25,00	-9,289	774,727	-2,00	-8,564	774,742	-2,00	775,244	774,913	775,343	0,099	3,500	774,843	-2,000	4,225	774,829	-2,00	5,024	775,182	-66,67
1+0,000	-6,298	775,566	100,00	-5,685	774,953	25,00	-4,910	774,884	-2,00	-4,185	774,898	-2,00	775,425	774,982	775,412	-0,013	3,500	774,912	-2,000	4,225	774,897	-2,00	5,350	775,316	100,00
1+10,000	-5,586	775,622	100,00	-5,000	775,035	25,00	-4,225	774,966	-2,00	-3,500	774,980	-2,00	775,475	775,050	775,480	0,005	3,500	774,980	-2,000	4,225	774,966	-2,00	5,054	775,300	-66,67
2+0,000	-10,764	775,810	100,00	-9,959	775,005	25,00	-9,184	774,935	-2,00	-8,459	774,950	-2,00	775,407	775,119	775,549	0,142	3,500	775,049	-2,000	4,225	775,035	-2,00	5,104	775,335	-66,67
2+10,000	-10,708	775,823	100,00	-9,959	775,074	25,00	-9,184	775,004	-2,00	-8,459	775,019	-2,00	775,430	775,188	775,618	0,188	3,500	775,118	-2,000	4,225	775,103	-2,00	5,277	775,288	-66,67
3+0,000	-10,690	775,874	100,00	-9,959	775,142	25,00	-9,184	775,073	-2,00	-8,459	775,087	-2,00	775,616	775,256	775,686	0,070	3,500	775,186	-2,000	4,225	775,172	-2,00	5,322	775,563	100,00
3+10,000	-6,861	775,868	100,00	-6,278	775,285	25,00	-5,503	775,215	-2,00	-4,778	775,230	-2,00	775,765	775,325	775,755	-0,010	3,500	775,255	-2,000	4,225	775,241	-2,00	5,059	775,571	-66,67
4+0,000	-5,651	775,918	100,00	-5,110	775,377	25,00	-4,335	775,307	-2,00	-3,610	775,322	-2,00	775,822	775,394	775,824	0,002	3,500	775,324	-2,000	4,225	775,309	-2,00	5,360	775,739	100,00
4+10,000	-5,573	776,021	100,00	-5,000	775,447	25,00	-4,225	775,378	-2,00	-3,500	775,392	-2,00	775,896	775,462	775,892	-0,004	3,500	775,392	-2,000	4,225	775,378	-2,00	5,319	775,767	100,00
5+0,000	-5,594	776,115	100,00	-5,000	775,521	25,00	-4,225	775,452	-2,00	-3,500	775,466	-2,00	775,999	775,536	775,966	-0,033	3,500	775,466	-2,000	4,225	775,452	-2,00	5,390	775,911	100,00
5+10,000	-5,538	776,143	100,00	-5,000	775,605	25,00	-4,225	775,536	-2,00	-3,500	775,550	-2,00	776,111	775,620	776,050	-0,061	3,500	775,550	-2,000	4,225	775,536	-2,00	5,438	776,043	100,00
6+0,000	-5,536	776,235	100,00	-5,000	775,699	25,00	-4,225	775,630	-2,00	-3,500	775,644	-2,00	776,209	775,714	776,144	-0,065	3,500	775,644	-2,000	4,225	775,630	-2,00	5,442	776,142	100,00
6+10,000	-5,528	776,331	100,00	-5,000	775,804	25,00	-4,225	775,734	-2,00	-3,500	775,749	-2,00	776,304	775,819	776,249	-0,055	3,500	775,749	-2,000	4,225	775,734	-2,00	5,436	776,239	100,00
7+0,000	-5,578	776,497	100,00	-5,000	775,918	25,00	-4,225	775,849	-2,00	-3,500	775,863	-2,00	776,413	775,933	776,363	-0,050	3,500	775,863	-2,000	4,225	775,849	-2,00	5,451	776,369	100,00
7+10,000	-5,582	776,625	100,00	-5,000	776,043	25,00	-4,225	775,974	-2,00	-3,500	775,988	-2,00	776,512	776,058	776,488	-0,024	3,500	775,988	-2,000	4,225	775,974	-2,00	5,453	776,496	100,00
8+0,000	-5,721	776,899	100,00	-5,000	776,178	25,00	-4,225	776,109	-2,00	-3,500	776,123	-2,00	776,654	776,193	776,623	-0,031	3,500	776,123	-2,000	4,225	776,109	-2,00	5,420	776,599	100,00
8+10,000	-5,656	776,979	100,00	-5,000	776,324	25,00	-4,225	776,254	-2,00	-3,500	776,269	-2,00	776,799	776,339	776,769	-0,030	3,500	776,269	-2,000	4,225	776,254	-2,00	5,374	776,697	100,00
9+0,000	-5,620	777,094	100,00	-5,000	776,474	25,00	-4,225	776,404	-2,00	-3,500	776,419	-2,00	776,904	776,489	776,919	0,015	3,500	776,419	-2,000	4,225	776,404	-2,00	5,311	776,785	100,00
9+10,000	-5,748	777,373	100,00	-5,000	776,624	25,00	-4,225	776,555	-2,00	-3,500	776,569	-2,00	777,016	776,639	777,069	0,053	3,500	776,569	-2,000	4,225	776,555	-2,00	5,080	776,871	-66,67
10+0,000	-5,658	777,432	100,00	-5,000	776,775	25,00	-4,225	776,705	-2,00	-3,500	776,720	-2,00	777,178	776,790	777,220	0,042	3,500	776,720	-2,000	4,225	776,705	-2,00	5,104	777,005	-66,67
10+10,000	-5,668	777,593	100,00	-5,000	776,925	25,00	-4,225	776,856	-2,00	-3,500	776,870	-2,00	777,330	776,940	777,370	0,040	3,500	776,870	-2,000	4,225	776,856	-2,00	5,162	777,117	-66,67
11+0,000	-5,654	777,729	100,00	-5,000	777,075	25,00	-4,225	777,006	-2,00	-3,500	777,020	-2,00	777,422	777,090	777,520	0,098	3,500	777,020	-2,000	4,225	777,006	-2,00	5,333	777,153	-66,67
11+10,000	-5,705	777,930	100,00	-5,000	777,226	25,00	-4,225	777,156	-2,00	-3,500	777,171	-2,00	777,602	777,241	777,671	0,069	3,500	777,171	-2,000	4,225	777,156	-2,00	5,374	777,277	-66,67
12+0,000	-5,747	778,123	100,00	-5,000	777,376	25,00	-4,225	777,307	-2,00	-3,500	777,321	-2,00	777,749	777,391	777,821	0,072	3,500	777,321	-2,000	4,225	777,307	-2,00	5,382	777,421	-66,67
12+10,000	-6,033	778,559	100,00	-5,000	777,527	25,00	-4,225	777,457	-2,00	-3,500	777,472	-2,00	778,021	777,542	777,972	-0,049	3,500	777,472	-2,000	4,225	777,457	-2,00	5,382	777,572	-66,67
13+0,000	-5,974	778,651	100,00	-5,000	777,677	25,00	-4,225	777,607	-2,00	-3,500	777,622	-2,00	778,246	777,692	778,122	-0,124	3,500	777,622	-2,000	4,225	777,607	-2,00	5,298	777,778	-66,67
13+10,000	-5,821	778,648	100,00	-5,000	777,827	25,00	-4,225	777,758	-2,00	-3,500	777,772	-2,00	778,344	777,842	778,272	-0,072	3,500	777,772	-2,000	4,225	777,758	-2,00	5,171	778,013	-66,67
14+0,000	-5,846	778,817	100,00	-5,000	777,971	25,00	-4,225	777,902	-2,00	-3,500	777,916	-2,00	778,511	777,986	778,416	-0,095	3,500	777,916	-2,000	4,225	777,902	-2,00	5,126	778,188	-66,67
14+10,000	-5,931	779,034	100,00	-5,000	778,103	25,00	-4,225	778,033	-2,00	-3,500	778,048	-2,00	778,712	778,118	778,548	-0,164	3,500	778,048	-2,000	4,225	778,033	-2,00	5,061	778,362	-66,67
15+0,000	-5,940	779,162	100,00	-5,000	778,222	25,00	-4,225	778,152	-2,00	-3,500	778,167	-2,00	778,836	778,237	778,667	-0,169	3,500	778,167	-2,000	4,225	778,152	-2,00	5,064	778,479	-66,67
15+10,000	-5,880	779,208	100,00	-5,000	778,328	25,00	-4,225	778,258	-2,00	-3,500	778,273	-2,00	778,898	778,343	778,773	-0,125	3,500	778,273	-2,000	4,225	778,258	-2,00	5,102	778,559	-66,67
16+0,000	-5,833	779,255	100,00	-5,000	778,421	25,00	-4,225	778,352	-2,00	-3,500	778,366	-2,00	779,005	778,436	778,866	-0,139	3,500	778,366	-2,000	4,225	778,352	-2,00	5,060	778,681	-66,67
16+10,000	-5,857	779,359	100,00	-5,000	778,502	25,00	-4,225	778,433	-2,00	-3,500	778,447	-2,00	779,097	778,517	778,947	-0,150	3,500	778,447	-2,000	4,225	778,433	-2,00	5,041	778,775	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 50

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
17+0,000	-5,858	779,428	100,00	-5,000	778,570	25,00	-4,225	778,501	-2,00	-3,500	778,515	-2,00	779,131	778,585	779,015	-0,116	3,500	778,515	-2,000	4,225	778,501	-2,00	5,007	778,866	-66,67
17+10,000	-5,830	779,456	100,00	-5,000	778,626	25,00	-4,225	778,556	-2,00	-3,500	778,571	-2,00	779,156	778,641	779,071	-0,085	3,500	778,571	-2,000	4,225	778,556	-2,00	5,069	778,880	-66,67
18+0,000	-5,814	779,483	100,00	-5,000	778,669	25,00	-4,225	778,599	-2,00	-3,500	778,614	-2,00	779,172	778,684	779,114	-0,058	3,500	778,614	-2,000	4,225	778,599	-2,00	5,103	778,900	-66,67
18+10,000	-5,762	779,461	100,00	-5,000	778,699	25,00	-4,225	778,630	-2,00	-3,500	778,644	-2,00	779,150	778,714	779,144	-0,006	3,500	778,644	-2,000	4,225	778,630	-2,00	5,080	778,946	-66,67
19+0,000	-5,717	779,434	100,00	-5,000	778,717	25,00	-4,225	778,647	-2,00	-3,500	778,662	-2,00	779,184	778,732	779,162	-0,022	3,500	778,662	-2,000	4,225	778,647	-2,00	5,037	778,992	-66,67
19+10,000	-5,665	779,387	100,00	-5,000	778,722	25,00	-4,225	778,652	-2,00	-3,500	778,667	-2,00	779,199	778,737	779,167	-0,032	3,500	778,667	-2,000	4,225	778,652	-2,00	5,023	779,007	-66,67
20+0,000	-5,611	779,325	100,00	-5,000	778,714	25,00	-4,225	778,645	-2,00	-3,500	778,659	-2,00	779,180	778,729	779,159	-0,021	3,500	778,659	-2,000	4,225	778,645	-2,00	5,024	778,998	-66,67
20+10,000	-5,570	779,264	100,00	-5,000	778,694	25,00	-4,225	778,625	-2,00	-3,500	778,639	-2,00	779,122	778,709	779,139	0,017	3,500	778,639	-2,000	4,225	778,625	-2,00	5,041	778,967	-66,67
21+0,000	-5,543	779,204	100,00	-5,000	778,661	25,00	-4,225	778,592	-2,00	-3,500	778,606	-2,00	779,069	778,676	779,106	0,037	3,500	778,606	-2,000	4,225	778,592	-2,00	5,076	778,910	-66,67
21+10,000	-5,529	779,145	100,00	-5,000	778,616	25,00	-4,225	778,546	-2,00	-3,500	778,561	-2,00	779,011	778,631	779,061	0,050	3,500	778,561	-2,000	4,225	778,546	-2,00	5,119	778,836	-66,67
22+0,000	-5,548	779,106	100,00	-5,000	778,557	25,00	-4,225	778,488	-2,00	-3,500	778,502	-2,00	778,963	778,572	779,002	0,039	3,500	778,502	-2,000	4,225	778,488	-2,00	5,176	778,740	-66,67
22+10,000	-5,581	779,067	100,00	-5,000	778,487	25,00	-4,225	778,417	-2,00	-3,500	778,432	-2,00	778,885	778,502	778,932	0,047	3,500	778,432	-2,000	4,225	778,417	-2,00	5,189	778,660	-66,67
23+0,000	-5,579	778,982	100,00	-5,000	778,403	25,00	-4,225	778,334	-2,00	-3,500	778,348	-2,00	778,796	778,418	778,848	0,052	3,500	778,348	-2,000	4,225	778,334	-2,00	5,284	778,514	-66,67
23+10,000	-5,589	778,896	100,00	-5,000	778,307	25,00	-4,225	778,238	-2,00	-3,500	778,252	-2,00	778,656	778,322	778,752	0,096	3,500	778,252	-2,000	4,225	778,238	-2,00	5,325	778,390	-66,67
24+0,000	-5,588	778,786	100,00	-5,000	778,198	25,00	-4,225	778,129	-2,00	-3,500	778,143	-2,00	778,537	778,213	778,643	0,106	3,500	778,143	-2,000	4,225	778,129	-2,00	5,377	778,247	-66,67
24+10,000	-5,598	778,675	100,00	-5,000	778,077	25,00	-4,225	778,008	-2,00	-3,500	778,022	-2,00	778,391	778,092	778,522	0,131	3,500	778,022	-2,000	4,225	778,008	-2,00	5,421	778,096	-66,67
25+0,000	-5,575	778,518	100,00	-5,000	777,943	25,00	-4,225	777,874	-2,00	-3,500	777,888	-2,00	778,207	777,958	778,388	0,181	3,500	777,888	-2,000	4,225	777,874	-2,00	5,488	777,918	-66,67
25+10,000	-5,601	778,397	100,00	-5,000	777,797	25,00	-4,225	777,727	-2,00	-3,500	777,742	-2,00	778,040	777,812	778,242	0,202	3,500	777,742	-2,000	4,225	777,727	-2,00	5,536	777,739	-66,67
26+0,000	-5,785	778,429	100,00	-5,000	777,644	25,00	-4,225	777,574	-2,00	-3,500	777,589	-2,00	777,986	777,659	778,089	0,103	3,500	777,589	-2,000	4,225	777,574	-2,00	5,508	777,605	-66,67
26+10,000	-9,774	778,877	100,00	-8,321	777,424	25,00	-7,546	777,355	-2,00	-6,821	777,369	-2,00	777,969	777,506	777,936	-0,033	3,500	777,436	-2,000	4,225	777,421	-2,00	5,482	777,469	-66,67
27+0,000	-5,958	778,296	100,00	-5,000	777,338	25,00	-4,225	777,268	-2,00	-3,500	777,283	-2,00	777,738	777,353	777,783	0,045	3,500	777,283	-2,000	4,225	777,268	-2,00	5,433	777,349	-66,67
27+10,000	-6,326	778,511	100,00	-5,000	777,185	25,00	-4,225	777,115	-2,00	-3,500	777,130	-2,00	777,770	777,200	777,630	-0,140	3,500	777,130	-2,000	4,225	777,115	-2,00	5,412	777,210	-66,67
28+0,000	-6,102	778,134	100,00	-5,000	777,032	25,00	-4,225	776,962	-2,00	-3,500	776,977	-2,00	777,456	777,047	777,477	0,021	3,500	776,977	-2,000	4,225	776,962	-2,00	5,331	777,111	-66,67
28+10,000	-5,906	777,785	100,00	-5,000	776,879	25,00	-4,225	776,809	-2,00	-3,500	776,824	-2,00	777,317	776,894	777,324	0,007	3,500	776,824	-2,000	4,225	776,809	-2,00	5,235	777,022	-66,67
29+0,000	-5,778	777,493	100,00	-5,000	776,715	25,00	-4,225	776,645	-2,00	-3,500	776,660	-2,00	777,075	776,730	777,160	0,085	3,500	776,660	-2,000	4,225	776,645	-2,00	5,146	776,917	-66,67
29+10,000	-5,663	777,192	100,00	-5,000	776,528	25,00	-4,225	776,459	-2,00	-3,500	776,473	-2,00	776,933	776,543	776,973	0,040	3,500	776,473	-2,000	4,225	776,459	-2,00	5,028	776,810	-66,67
30+0,000	-5,747	777,066	100,00	-5,000	776,320	25,00	-4,225	776,250	-2,00	-3,500	776,265	-2,00	776,806	776,335	776,765	-0,041	3,500	776,265	-2,000	4,225	776,250	-2,00	5,375	776,695	100,00
30+10,000	-5,835	776,924	100,00	-5,000	776,089	25,00	-4,225	776,020	-2,00	-3,500	776,034	-2,00	776,696	776,104	776,534	-0,162	3,500	776,034	-2,000	4,225	776,020	-2,00	5,477	776,566	100,00
31+0,000	-7,928	776,669	100,00	-7,054	775,795	25,00	-6,279	775,725	-2,00	-5,554	775,740	-2,00	776,381	775,851	776,281	-0,100	3,500	775,781	-2,000	4,225	775,766	-2,00	5,405	776,241	100,00
31+10,000	-8,861	776,198	100,00	-8,160	775,497	25,00	-7,385	775,428	-2,00	-6,660	775,442	-2,00	775,983	775,576	776,006	0,023	3,500	775,506	-2,000	4,225	775,491	-2,00	5,367	775,927	100,00
32+0,000	-5,499	775,773	100,00	-5,000	775,274	25,00	-4,225	775,205	-2,00	-3,500	775,219	-2,00	775,628	775,289	775,719	0,091	3,500	775,219	-2,000	4,225	775,205	-2,00	5,356	775,630	100,00
32+10,000	-5,431	775,439	100,00	-5,000	775,008	25,00	-4,225	774,939	-2,00	-3,500	774,953	-2,00	775,320	775,023	775,453	0,133	3,500	774,953	-2,000	4,225	774,939	-2,00	5,080	775,255	-66,67
33+0,000	-5,302	775,087	100,00	-5,000	774,784	25,00	-4,225	774,715	-2,00	-3,500	774,729	-2,00	775,018	774,799	775,229	0,211	3,500	774,729	-2,000	4,225	774,715	-2,00	5,344	774,855	-66,67
33+10,000	-5,173	774,787	-66,67	-5,000	774,902	5,00	-4,225	774,532	-2,00	-3,500	774,547	-2,00	774,758	774,617	775,047	0,289	3,500	774,547	-2,000	4,225	774,532	-2,00	5,466	774,591	-66,67
34+0,000	-5,252	774,593	-66,67	-5,000	774,761	5,00	-4,225	774,391	-2,00	-3,500	774,406	-2,00	774,528	774,476	774,906	0,378	3,500	774,406	-2,000	4,225	774,391	-2,00	5,475	774,444	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 50																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
34+10,000	-5,236	774,504	-66,67	-5,000	774,661	5,00	-4,225	774,292	-2,00	-3,500	774,306	-2,00	774,436	774,376	774,806	0,370	3,500	774,306	-2,000	4,225	774,292	-2,00	5,475	774,345	-66,67
35+0,000	-5,147	774,506	-66,67	-5,000	774,604	5,00	-4,225	774,234	-2,00	-3,500	774,249	-2,00	774,444	774,319	774,749	0,305	3,500	774,249	-2,000	4,225	774,234	-2,00	5,537	774,246	-66,67
35+10,000	-5,028	774,569	-66,67	-5,000	774,588	5,00	-4,225	774,218	-2,00	-3,500	774,233	-2,00	774,465	774,303	774,733	0,268	3,500	774,233	-2,000	4,225	774,218	-2,00	5,172	774,473	-66,67
36+0,000	-5,317	774,630	100,00	-5,000	774,313	25,00	-4,225	774,244	-2,00	-3,500	774,258	-2,00	774,539	774,328	774,758	0,219	3,500	774,258	-2,000	4,225	774,244	-2,00	5,072	774,565	-66,67
36+10,000	-5,331	774,711	100,00	-5,000	774,380	25,00	-4,225	774,311	-2,00	-3,500	774,325	-2,00	774,672	774,395	774,825	0,153	3,500	774,325	-2,000	4,225	774,311	-2,00	5,167	774,569	-66,67
37+0,000	-5,334	774,823	100,00	-5,000	774,489	25,00	-4,225	774,419	-2,00	-3,500	774,434	-2,00	774,847	774,504	774,934	0,087	3,500	774,434	-2,000	4,225	774,419	-2,00	5,085	774,732	-66,67
37+10,000	-5,475	775,114	100,00	-5,000	774,639	25,00	-4,225	774,570	-2,00	-3,500	774,584	-2,00	775,024	774,654	775,084	0,060	3,500	774,584	-2,000	4,225	774,570	-2,00	5,337	774,976	100,00
38+0,000	-5,555	775,386	100,00	-5,000	774,831	25,00	-4,225	774,761	-2,00	-3,500	774,776	-2,00	775,287	774,846	775,276	-0,011	3,500	774,776	-2,000	4,225	774,761	-2,00	5,503	775,334	100,00
38+10,000	-5,546	775,622	100,00	-5,000	775,077	25,00	-4,225	775,007	-2,00	-3,500	775,022	-2,00	775,550	775,092	775,522	-0,028	3,500	775,022	-2,000	4,225	775,007	-2,00	5,516	775,592	100,00
39+0,000	-5,552	775,940	100,00	-5,000	775,388	25,00	-4,225	775,319	-2,00	-3,500	775,333	-2,00	775,872	775,403	775,833	-0,039	3,500	775,333	-2,000	4,225	775,319	-2,00	5,476	775,864	100,00
39+10,000	-5,488	776,254	100,00	-5,000	775,766	25,00	-4,225	775,697	-2,00	-3,500	775,711	-2,00	776,219	775,781	776,211	-0,008	3,500	775,711	-2,000	4,225	775,697	-2,00	5,451	776,217	100,00
40+0,000	-5,414	776,624	100,00	-5,000	776,210	25,00	-4,225	776,141	-2,00	-3,500	776,155	-2,00	776,628	776,225	776,655	0,027	3,500	776,155	-2,000	4,225	776,141	-2,00	5,355	776,565	100,00
40+10,000	-5,423	777,110	100,00	-5,000	776,687	25,00	-4,225	776,618	-2,00	-3,500	776,632	-2,00	777,131	776,702	777,132	0,001	3,500	776,632	-2,000	4,225	776,618	-2,00	5,355	777,042	100,00
41+0,000	-5,403	777,567	100,00	-5,000	777,164	25,00	-4,225	777,095	-2,00	-3,500	777,109	-2,00	777,627	777,179	777,609	-0,018	3,500	777,109	-2,000	4,225	777,095	-2,00	5,329	777,493	100,00
41+10,000	-5,460	778,097	100,00	-5,000	777,638	25,00	-4,225	777,568	-2,00	-3,500	777,583	-2,00	778,089	777,653	778,083	-0,006	3,500	777,583	-2,000	4,225	777,568	-2,00	5,354	777,991	100,00
42+0,000	-5,503	778,591	100,00	-5,000	778,087	25,00	-4,225	778,018	-2,00	-3,500	778,032	-2,00	778,552	778,102	778,532	-0,020	3,500	778,032	-2,000	4,225	778,018	-2,00	5,417	778,504	100,00
42+10,000	-5,669	779,179	100,00	-5,000	778,510	25,00	-4,225	778,441	-2,00	-3,500	778,455	-2,00	778,974	778,525	778,955	-0,019	3,500	778,455	-2,000	4,225	778,441	-2,00	5,354	778,864	100,00
43+0,000	-5,509	779,414	100,00	-5,000	778,905	25,00	-4,225	778,836	-2,00	-3,500	778,850	-2,00	779,319	778,920	779,350	0,031	3,500	778,850	-2,000	4,225	778,836	-2,00	5,006	779,201	-66,67
43+1,617	-5,466	779,433	100,00	-5,000	778,967	25,00	-4,225	778,897	-2,00	-3,500	778,912	-2,00	779,375	778,982	779,412	0,037	3,500	778,912	-2,000	4,225	778,897	-2,00	5,018	779,255	-66,67
43+5,000	-5,378	779,471	100,00	-5,000	779,093	25,00	-4,225	779,023	-2,00	-3,500	779,038	-2,00	779,424	779,108	779,538	0,114	3,500	779,038	-2,000	4,225	779,023	-2,00	5,039	779,367	-66,67
43+10,000	-5,320	779,594	100,00	-5,000	779,274	25,00	-4,225	779,204	-2,00	-3,500	779,219	-2,00	779,548	779,289	779,719	0,171	3,500	779,219	-2,000	4,225	779,204	-2,00	5,062	779,532	-66,67
43+15,000	-5,049	779,715	-66,67	-5,000	779,748	5,00	-4,225	779,378	-2,00	-3,500	779,393	-2,00	779,690	779,463	779,893	0,203	3,500	779,393	-2,000	4,225	779,378	-2,00	5,075	779,698	-66,67
44+0,000	-5,113	779,839	-66,67	-5,000	779,915	5,00	-4,225	779,545	-2,00	-3,500	779,560	-2,00	779,851	779,630	780,060	0,209	3,500	779,560	-2,000	4,225	779,545	-2,00	5,072	779,866	-66,67
44+5,000	-5,168	779,963	-66,67	-5,000	780,075	5,00	-4,225	779,705	-2,00	-3,500	779,720	-2,00	780,012	779,790	780,220	0,208	3,500	779,720	-2,000	4,225	779,705	-2,00	5,058	780,036	-66,67
44+10,000	-5,198	780,097	-66,67	-5,000	780,228	5,00	-4,225	779,859	-2,00	-3,500	779,873	-2,00	780,174	779,943	780,373	0,199	3,500	779,873	-2,000	4,225	779,859	-2,00	5,034	780,206	-66,67
44+15,000	-5,641	780,716	100,00	-5,000	780,075	25,00	-4,225	780,006	-2,00	-3,500	780,020	-2,00	780,513	780,090	780,520	0,007	3,500	780,020	-2,000	4,225	780,006	-2,00	5,015	780,365	-66,67
45+0,000	-5,694	780,909	100,00	-5,000	780,215	25,00	-4,225	780,145	-2,00	-3,500	780,160	-2,00	780,666	780,230	780,660	-0,006	3,500	780,160	-2,000	4,225	780,145	-2,00	5,303	780,518	100,00
45+5,000	-5,569	780,917	100,00	-5,000	780,348	25,00	-4,225	780,279	-2,00	-3,500	780,293	-2,00	780,819	780,363	780,793	-0,026	3,500	780,293	-2,000	4,225	780,279	-2,00	5,324	780,672	100,00
45+10,000	-5,390	780,865	100,00	-5,000	780,474	25,00	-4,225	780,405	-2,00	-3,500	780,419	-2,00	780,971	780,489	780,919	-0,052	3,500	780,419	-2,000	4,225	780,405	-2,00	5,352	780,826	100,00
45+15,000	-5,117	780,816	-66,67	-5,000	780,894	5,00	-4,225	780,524	-2,00	-3,500	780,539	-2,00	780,963	780,609	781,039	0,076	3,500	780,539	-2,000	4,225	780,524	-2,00	5,386	780,980	100,00
46+0,000	-5,311	781,018	100,00	-5,000	780,707	25,00	-4,225	780,637	-2,00	-3,500	780,652	-2,00	781,138	780,722	781,152	0,014	3,500	780,652	-2,000	4,225	780,637	-2,00	5,413	781,120	100,00
46+5,000	-5,424	781,237	100,00	-5,000	780,812	25,00	-4,225	780,743	-2,00	-3,500	780,757	-2,00	781,308	780,827	781,257	-0,051	3,500	780,757	-2,000	4,225	780,743	-2,00	5,443	781,255	100,00
46+10,000	-5,541	781,456	100,00	-5,000	780,915	25,00	-4,225	780,845	-2,00	-3,500	780,860	-2,00	781,444	780,930	781,360	-0,084	3,500	780,860	-2,000	4,225	780,845	-2,00	5,479	781,394	100,00
46+15,000	-5,626	781,644	100,00	-5,000	781,017	25,00	-4,225	780,948	-2,00	-3,500	780,962	-2,00	781,580	781,032	781,462	-0,118	3,500	780,962	-2,000	4,225	780,948	-2,00	5,518	781,536	100,00
47+0,000	-5,479	781,599	100,00	-5,000	781,120	25,00	-4,225	781,050	-2,00	-3,500	781,065	-2,00	781,716	781,135	781,565	-0,151	3,500	781,065	-2,000	4,225	781,050	-2,00	5,557	781,677	100,00

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 50

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
47+5,000	-5,010	781,515	-66,67	-5,000	781,522	5,00	-4,225	781,153	-2,00	-3,500	781,167	-2,00	781,681	781,237	781,667	-0,014	3,500	781,167	-2,000	4,225	781,153	-2,00	5,576	781,798	100,00
47+10,000	-5,023	781,610	-66,67	-5,000	781,625	5,00	-4,225	781,255	-2,00	-3,500	781,270	-2,00	781,796	781,340	781,770	-0,026	3,500	781,270	-2,000	4,225	781,255	-2,00	5,586	781,911	100,00
47+15,000	-5,068	781,682	-66,67	-5,000	781,727	5,00	-4,225	781,358	-2,00	-3,500	781,372	-2,00	781,911	781,442	781,872	-0,039	3,500	781,372	-2,000	4,225	781,358	-2,00	5,597	782,024	100,00
48+0,000	-5,111	781,756	-66,67	-5,000	781,830	5,00	-4,225	781,460	-2,00	-3,500	781,475	-2,00	782,027	781,545	781,975	-0,052	3,500	781,475	-2,000	4,225	781,460	-2,00	5,607	782,137	100,00
48+5,000	-5,103	781,864	-66,67	-5,000	781,932	5,00	-4,225	781,563	-2,00	-3,500	781,577	-2,00	782,142	781,647	782,077	-0,065	3,500	781,577	-2,000	4,225	781,563	-2,00	5,600	782,232	100,00
48+8,938	-5,294	782,007	100,00	-5,000	781,713	25,00	-4,225	781,644	-2,00	-3,500	781,658	-2,00	782,185	781,728	782,158	-0,027	3,500	781,658	-2,000	4,225	781,644	-2,00	5,574	782,287	100,00
48+10,000	-5,313	782,048	100,00	-5,000	781,735	25,00	-4,225	781,665	-2,00	-3,500	781,680	-2,00	782,200	781,750	782,180	-0,020	3,500	781,680	-2,000	4,225	781,665	-2,00	5,562	782,297	100,00
48+15,000	-5,099	782,071	-66,67	-5,000	782,137	5,00	-4,225	781,768	-2,00	-3,500	781,782	-2,00	782,254	781,852	782,282	0,028	3,500	781,782	-2,000	4,225	781,768	-2,00	5,504	782,341	100,00
49+0,000	-5,151	782,139	-66,67	-5,000	782,240	5,00	-4,225	781,870	-2,00	-3,500	781,885	-2,00	782,303	781,955	782,385	0,082	3,500	781,885	-2,000	4,225	781,870	-2,00	5,447	782,386	100,00
49+5,000	-5,103	782,280	-66,67	-5,010	782,342	5,00	-4,235	781,973	-2,00	-3,510	781,987	-2,00	782,353	782,057	782,487	0,134	3,500	781,987	-2,000	4,225	781,973	-2,00	5,299	782,342	100,00
49+10,000	-7,524	782,512	100,00	-7,115	782,103	25,00	-6,340	782,033	-2,00	-5,615	782,048	-2,00	782,432	782,160	782,590	0,158	3,500	782,090	-2,000	4,225	782,075	-2,00			
49+15,000	-9,915	782,689	100,00	-9,386	782,160	25,00	-8,611	782,090	-2,00	-7,886	782,105	-2,00	782,510	782,262	782,692	0,182	3,500	782,192	-2,000	4,225	782,178	-2,00	5,323	782,570	100,00
50+0,000	-9,550	782,804	100,00	-9,015	782,270	25,00	-8,240	782,200	-2,00	-7,515	782,215	-2,00	782,629	782,365	782,795	0,166	3,500	782,295	-2,000	4,225	782,280	-2,00	5,013	782,641	-66,67
50+5,000	-9,197	782,919	100,00	-8,657	782,379	25,00	-7,882	782,310	-2,00	-7,157	782,324	-2,00	782,748	782,467	782,897	0,149	3,500	782,397	-2,000	4,225	782,383	-2,00	5,053	782,717	-66,67
50+10,000	-6,483	782,996	100,00	-6,021	782,534	25,00	-5,246	782,465	-2,00	-4,521	782,479	-2,00	782,878	782,570	783,000	0,122	3,500	782,500	-2,000	4,225	782,485	-2,00	5,096	782,791	-66,67
50+15,000	-5,473	783,131	100,00	-5,000	782,657	25,00	-4,225	782,588	-2,00	-3,500	782,602	-2,00	783,030	782,672	783,102	0,072	3,500	782,602	-2,000	4,225	782,588	-2,00	5,060	782,918	-66,67
51+0,000	-5,524	783,284	100,00	-5,000	782,760	25,00	-4,225	782,690	-2,00	-3,500	782,705	-2,00	783,157	782,775	783,205	0,048	3,500	782,705	-2,000	4,225	782,690	-2,00	5,024	783,044	-66,67
51+5,000	-5,575	783,438	100,00	-5,000	782,862	25,00	-4,225	782,793	-2,00	-3,500	782,807	-2,00	783,283	782,877	783,307	0,024	3,500	782,807	-2,000	4,225	782,793	-2,00	5,306	783,169	100,00
51+10,000	-5,596	783,561	100,00	-5,000	782,965	25,00	-4,225	782,895	-2,00	-3,500	782,910	-2,00	783,409	782,980	783,410	0,001	3,500	782,910	-2,000	4,225	782,895	-2,00	5,330	783,295	100,00
51+15,000	-5,565	783,627	100,00	-5,000	783,062	25,00	-4,225	782,993	-2,00	-3,500	783,007	-2,00	783,535	783,077	783,507	-0,028	3,500	783,007	-2,000	4,225	782,993	-2,00	5,358	783,421	100,00
52+0,000	-5,543	783,693	100,00	-5,000	783,150	25,00	-4,225	783,081	-2,00	-3,500	783,095	-2,00	783,660	783,165	783,595	-0,065	3,500	783,095	-2,000	4,225	783,081	-2,00	5,396	783,546	100,00
52+5,000	-5,531	783,760	100,00	-5,000	783,229	25,00	-4,225	783,159	-2,00	-3,500	783,174	-2,00	783,785	783,244	783,674	-0,111	3,500	783,174	-2,000	4,225	783,159	-2,00	5,443	783,672	100,00
52+10,000	-5,523	783,820	100,00	-5,000	783,297	25,00	-4,225	783,228	-2,00	-3,500	783,242	-2,00	783,852	783,312	783,742	-0,110	3,500	783,242	-2,000	4,225	783,228	-2,00	5,497	783,794	100,00
52+15,000	-5,517	783,873	100,00	-5,000	783,356	25,00	-4,225	783,287	-2,00	-3,500	783,301	-2,00	783,911	783,371	783,801	-0,110	3,500	783,301	-2,000	4,225	783,287	-2,00	5,532	783,888	100,00
53+0,000	-5,521	783,926	100,00	-5,000	783,405	25,00	-4,225	783,336	-2,00	-3,500	783,350	-2,00	783,948	783,420	783,850	-0,098	3,500	783,350	-2,000	4,225	783,336	-2,00	5,588	783,994	100,00
53+5,000	-5,509	783,954	100,00	-5,000	783,445	25,00	-4,225	783,375	-2,00	-3,500	783,390	-2,00	783,969	783,460	783,890	-0,079	3,500	783,390	-2,000	4,225	783,375	-2,00	5,618	784,063	100,00
53+10,000	-5,502	783,977	100,00	-5,000	783,475	25,00	-4,225	783,405	-2,00	-3,500	783,420	-2,00	784,019	783,490	783,920	-0,099	3,500	783,420	-2,000	4,225	783,405	-2,00	5,598	784,073	100,00
53+15,000	-5,528	784,028	100,00	-5,000	783,500	25,00	-4,225	783,430	-2,00	-3,500	783,445	-2,00	784,031	783,515	783,945	-0,086	3,500	783,445	-2,000	4,225	783,430	-2,00	5,584	784,083	100,00
53+16,259	-5,528	784,034	100,00	-5,000	783,506	25,00	-4,225	783,437	-2,00	-3,500	783,451	-2,00	784,034	783,521	783,951	-0,083	3,500	783,451	-2,000	4,225	783,437	-2,00	5,580	784,086	100,00
54+0,000	-5,530	784,055	100,00	-5,000	783,525	25,00	-4,225	783,455	-2,00	-3,500	783,470	-2,00	784,042	783,540	783,970	-0,072	3,500	783,470	-2,000	4,225	783,455	-2,00	5,570	784,095	100,00
54+10,000	-5,474	784,048	100,00	-5,000	783,575	25,00	-4,225	783,505	-2,00	-3,500	783,520	-2,00	784,065	783,590	784,020	-0,045	3,500	783,520	-2,000	4,225	783,505	-2,00	5,542	784,117	100,00
55+0,000	-5,418	784,042	100,00	-5,000	783,625	25,00	-4,225	783,555	-2,00	-3,500	783,570	-2,00	784,081	783,640	784,070	-0,011	3,500	783,570	-2,000	4,225	783,555	-2,00	5,515	784,140	100,00
55+10,000	-5,359	784,034	100,00	-5,000	783,675	25,00	-4,225	783,605	-2,00	-3,500	783,620	-2,00	784,075	783,690	784,120	0,045	3,500	783,620	-2,000	4,225	783,605	-2,00	5,559	784,233	100,00
55+17,117				-5,000	784,026	5,00	-4,225	783,657	-2,00	-3,500	783,671	-2,00	784,069	783,741	784,171	0,102	3,500	783,671	-2,000	4,225	783,657	-2,00	5,521	784,247	100,00
56+0,000	-5,300	783,925	-66,67	-5,105	784,054	5,00	-4,330	783,685	-2,00	-3,605	783,699	-2,00	784,065	783,772	784,202	0,137	3,500	783,702	-2,000	4,225	783,687	-2,00	5,497	784,253	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 50

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
0+0,000	-11,093	775,665	100,000	-10,155	774,726	25,00	-8,655	775,101	-2,00	775,172	774,844	775,274	0,102	3,500	775,204	-2,00	5,338	774,904	-66,67
0+10,000	-11,011	775,744	100,000	-10,064	774,797	25,00	-8,564	775,172	-2,00	775,244	774,913	775,343	0,099	3,500	775,273	-2,00	5,024	775,182	-66,67
1+0,000	-6,298	775,566	100,000	-5,685	774,953	25,00	-4,185	775,328	-2,00	775,425	774,982	775,412	-0,013	3,500	775,342	-2,00	5,350	775,316	100,00
1+10,000	-5,586	775,622	100,000	-5,000	775,035	25,00	-3,500	775,410	-2,00	775,475	775,050	775,480	0,005	3,500	775,410	-2,00	5,054	775,300	-66,67
2+0,000	-10,764	775,810	100,000	-9,959	775,005	25,00	-8,459	775,380	-2,00	775,407	775,119	775,549	0,142	3,500	775,479	-2,00	5,104	775,335	-66,67
2+10,000	-10,708	775,823	100,000	-9,959	775,074	25,00	-8,459	775,449	-2,00	775,430	775,188	775,618	0,188	3,500	775,548	-2,00	5,277	775,288	-66,67
3+0,000	-10,690	775,874	100,000	-9,959	775,142	25,00	-8,459	775,517	-2,00	775,616	775,256	775,686	0,070	3,500	775,616	-2,00	5,322	775,563	100,00
3+10,000	-6,861	775,868	100,000	-6,278	775,285	25,00	-4,778	775,660	-2,00	775,765	775,325	775,755	-0,010	3,500	775,685	-2,00	5,059	775,571	-66,67
4+0,000	-5,651	775,918	100,000	-5,110	775,377	25,00	-3,610	775,752	-2,00	775,822	775,394	775,824	0,002	3,500	775,754	-2,00	5,360	775,739	100,00
4+10,000	-5,573	776,021	100,000	-5,000	775,447	25,00	-3,500	775,822	-2,00	775,896	775,462	775,892	-0,004	3,500	775,822	-2,00	5,319	775,767	100,00
5+0,000	-5,594	776,115	100,000	-5,000	775,521	25,00	-3,500	775,896	-2,00	775,999	775,536	775,966	-0,033	3,500	775,896	-2,00	5,390	775,911	100,00
5+10,000	-5,538	776,143	100,000	-5,000	775,605	25,00	-3,500	775,980	-2,00	776,111	775,620	776,050	-0,061	3,500	775,980	-2,00	5,438	776,043	100,00
6+0,000	-5,536	776,235	100,000	-5,000	775,699	25,00	-3,500	776,074	-2,00	776,209	775,714	776,144	-0,065	3,500	776,074	-2,00	5,442	776,142	100,00
6+10,000	-5,528	776,331	100,000	-5,000	775,804	25,00	-3,500	776,179	-2,00	776,304	775,819	776,249	-0,055	3,500	776,179	-2,00	5,436	776,239	100,00
7+0,000	-5,578	776,497	100,000	-5,000	775,918	25,00	-3,500	776,293	-2,00	776,413	775,933	776,363	-0,050	3,500	776,293	-2,00	5,451	776,369	100,00
7+10,000	-5,582	776,625	100,000	-5,000	776,043	25,00	-3,500	776,418	-2,00	776,512	776,058	776,488	-0,024	3,500	776,418	-2,00	5,453	776,496	100,00
8+0,000	-5,721	776,899	100,000	-5,000	776,178	25,00	-3,500	776,553	-2,00	776,654	776,193	776,623	-0,031	3,500	776,553	-2,00	5,420	776,599	100,00
8+10,000	-5,656	776,979	100,000	-5,000	776,324	25,00	-3,500	776,699	-2,00	776,799	776,339	776,769	-0,030	3,500	776,699	-2,00	5,374	776,697	100,00
9+0,000	-5,620	777,094	100,000	-5,000	776,474	25,00	-3,500	776,849	-2,00	776,904	776,489	776,919	0,015	3,500	776,849	-2,00	5,311	776,785	100,00
9+10,000	-5,748	777,373	100,000	-5,000	776,624	25,00	-3,500	776,999	-2,00	777,016	776,639	777,069	0,053	3,500	776,999	-2,00	5,080	776,871	-66,67
10+0,000	-5,658	777,432	100,000	-5,000	776,775	25,00	-3,500	777,150	-2,00	777,178	776,790	777,220	0,042	3,500	777,150	-2,00	5,104	777,005	-66,67
10+10,000	-5,668	777,593	100,000	-5,000	776,925	25,00	-3,500	777,300	-2,00	777,330	776,940	777,370	0,040	3,500	777,300	-2,00	5,162	777,117	-66,67
11+0,000	-5,654	777,729	100,000	-5,000	777,075	25,00	-3,500	777,450	-2,00	777,422	777,090	777,520	0,098	3,500	777,450	-2,00	5,333	777,153	-66,67
11+10,000	-5,705	777,930	100,000	-5,000	777,226	25,00	-3,500	777,601	-2,00	777,602	777,241	777,671	0,069	3,500	777,601	-2,00	5,374	777,277	-66,67
12+0,000	-5,747	778,123	100,000	-5,000	777,376	25,00	-3,500	777,751	-2,00	777,749	777,391	777,821	0,072	3,500	777,751	-2,00	5,382	777,421	-66,67
12+10,000	-6,033	778,559	100,000	-5,000	777,527	25,00	-3,500	777,902	-2,00	778,021	777,542	777,972	-0,049	3,500	777,902	-2,00	5,382	777,572	-66,67
13+0,000	-5,974	778,651	100,000	-5,000	777,677	25,00	-3,500	778,052	-2,00	778,246	777,692	778,122	-0,124	3,500	778,052	-2,00	5,298	777,778	-66,67
13+10,000	-5,821	778,648	100,000	-5,000	777,827	25,00	-3,500	778,202	-2,00	778,344	777,842	778,272	-0,072	3,500	778,202	-2,00	5,171	778,013	-66,67
14+0,000	-5,846	778,817	100,000	-5,000	777,971	25,00	-3,500	778,346	-2,00	778,511	777,986	778,416	-0,095	3,500	778,346	-2,00	5,126	778,188	-66,67
14+10,000	-5,931	779,034	100,000	-5,000	778,103	25,00	-3,500	778,478	-2,00	778,712	778,118	778,548	-0,164	3,500	778,478	-2,00	5,061	778,362	-66,67
15+0,000	-5,940	779,162	100,000	-5,000	778,222	25,00	-3,500	778,597	-2,00	778,836	778,237	778,667	-0,169	3,500	778,597	-2,00	5,064	778,479	-66,67
15+10,000	-5,880	779,208	100,000	-5,000	778,328	25,00	-3,500	778,703	-2,00	778,898	778,343	778,773	-0,125	3,500	778,703	-2,00	5,102	778,559	-66,67
16+0,000	-5,833	779,255	100,000	-5,000	778,421	25,00	-3,500	778,796	-2,00	779,005	778,436	778,866	-0,139	3,500	778,796	-2,00	5,060	778,681	-66,67
16+10,000	-5,857	779,359	100,000	-5,000	778,502	25,00	-3,500	778,877	-2,00	779,097	778,517	778,947	-0,150	3,500	778,877	-2,00	5,041	778,775	-66,67
17+0,000	-5,858	779,428	100,000	-5,000	778,570	25,00	-3,500	778,945	-2,00	779,131	778,585	779,015	-0,116	3,500	778,945	-2,00	5,007	778,866	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 50

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
17+10,000	-5,830	779,456	100,000	-5,000	778,626	25,00	-3,500	779,001	-2,00	779,156	778,641	779,071	-0,085	3,500	779,001	-2,00	5,069	778,880	-66,67
18+0,000	-5,814	779,483	100,000	-5,000	778,669	25,00	-3,500	779,044	-2,00	779,172	778,684	779,114	-0,058	3,500	779,044	-2,00	5,103	778,900	-66,67
18+10,000	-5,762	779,461	100,000	-5,000	778,699	25,00	-3,500	779,074	-2,00	779,150	778,714	779,144	-0,006	3,500	779,074	-2,00	5,080	778,946	-66,67
19+0,000	-5,717	779,434	100,000	-5,000	778,717	25,00	-3,500	779,092	-2,00	779,184	778,732	779,162	-0,022	3,500	779,092	-2,00	5,037	778,992	-66,67
19+10,000	-5,665	779,387	100,000	-5,000	778,722	25,00	-3,500	779,097	-2,00	779,199	778,737	779,167	-0,032	3,500	779,097	-2,00	5,023	779,007	-66,67
20+0,000	-5,611	779,325	100,000	-5,000	778,714	25,00	-3,500	779,089	-2,00	779,180	778,729	779,159	-0,021	3,500	779,089	-2,00	5,024	778,998	-66,67
20+10,000	-5,570	779,264	100,000	-5,000	778,694	25,00	-3,500	779,069	-2,00	779,122	778,709	779,139	0,017	3,500	779,069	-2,00	5,041	778,967	-66,67
21+0,000	-5,543	779,204	100,000	-5,000	778,661	25,00	-3,500	779,036	-2,00	779,069	778,676	779,106	0,037	3,500	779,036	-2,00	5,076	778,910	-66,67
21+10,000	-5,529	779,145	100,000	-5,000	778,616	25,00	-3,500	778,991	-2,00	779,011	778,631	779,061	0,050	3,500	778,991	-2,00	5,119	778,836	-66,67
22+0,000	-5,548	779,106	100,000	-5,000	778,557	25,00	-3,500	778,932	-2,00	778,963	778,572	779,002	0,039	3,500	778,932	-2,00	5,176	778,740	-66,67
22+10,000	-5,581	779,067	100,000	-5,000	778,487	25,00	-3,500	778,862	-2,00	778,885	778,502	778,932	0,047	3,500	778,862	-2,00	5,189	778,660	-66,67
23+0,000	-5,579	778,982	100,000	-5,000	778,403	25,00	-3,500	778,778	-2,00	778,796	778,418	778,848	0,052	3,500	778,778	-2,00	5,284	778,514	-66,67
23+10,000	-5,589	778,896	100,000	-5,000	778,307	25,00	-3,500	778,682	-2,00	778,656	778,322	778,752	0,096	3,500	778,682	-2,00	5,325	778,390	-66,67
24+0,000	-5,588	778,786	100,000	-5,000	778,198	25,00	-3,500	778,573	-2,00	778,537	778,213	778,643	0,106	3,500	778,573	-2,00	5,377	778,247	-66,67
24+10,000	-5,598	778,675	100,000	-5,000	778,077	25,00	-3,500	778,452	-2,00	778,391	778,092	778,522	0,131	3,500	778,452	-2,00	5,421	778,096	-66,67
25+0,000	-5,575	778,518	100,000	-5,000	777,943	25,00	-3,500	778,318	-2,00	778,207	777,958	778,388	0,181	3,500	778,318	-2,00	5,488	777,918	-66,67
25+10,000	-5,601	778,397	100,000	-5,000	777,797	25,00	-3,500	778,172	-2,00	778,040	777,812	778,242	0,202	3,500	778,172	-2,00	5,536	777,739	-66,67
26+0,000	-5,785	778,429	100,000	-5,000	777,644	25,00	-3,500	778,019	-2,00	777,986	777,659	778,089	0,103	3,500	778,019	-2,00	5,508	777,605	-66,67
26+10,000	-9,774	778,877	100,000	-8,321	777,424	25,00	-6,821	777,799	-2,00	777,969	777,506	777,936	-0,033	3,500	777,866	-2,00	5,482	777,469	-66,67
27+0,000	-5,958	778,296	100,000	-5,000	777,338	25,00	-3,500	777,713	-2,00	777,738	777,353	777,783	0,045	3,500	777,713	-2,00	5,433	777,349	-66,67
27+10,000	-6,326	778,511	100,000	-5,000	777,185	25,00	-3,500	777,560	-2,00	777,770	777,200	777,630	-0,140	3,500	777,560	-2,00	5,412	777,210	-66,67
28+0,000	-6,102	778,134	100,000	-5,000	777,032	25,00	-3,500	777,407	-2,00	777,456	777,047	777,477	0,021	3,500	777,407	-2,00	5,331	777,111	-66,67
28+10,000	-5,906	777,785	100,000	-5,000	776,879	25,00	-3,500	777,254	-2,00	777,317	776,894	777,324	0,007	3,500	777,254	-2,00	5,235	777,022	-66,67
29+0,000	-5,778	777,493	100,000	-5,000	776,715	25,00	-3,500	777,090	-2,00	777,075	776,730	777,160	0,085	3,500	777,090	-2,00	5,146	776,917	-66,67
29+10,000	-5,663	777,192	100,000	-5,000	776,528	25,00	-3,500	776,903	-2,00	776,933	776,543	776,973	0,040	3,500	776,903	-2,00	5,028	776,810	-66,67
30+0,000	-5,747	777,066	100,000	-5,000	776,320	25,00	-3,500	776,695	-2,00	776,806	776,335	776,765	-0,041	3,500	776,695	-2,00	5,375	776,695	100,00
30+10,000	-5,835	776,924	100,000	-5,000	776,089	25,00	-3,500	776,464	-2,00	776,696	776,104	776,534	-0,162	3,500	776,464	-2,00	5,477	776,566	100,00
31+0,000	-7,928	776,669	100,000	-7,054	775,795	25,00	-5,554	776,170	-2,00	776,381	775,851	776,281	-0,100	3,500	776,211	-2,00	5,405	776,241	100,00
31+10,000	-8,861	776,198	100,000	-8,160	775,497	25,00	-6,660	775,872	-2,00	775,983	775,576	776,006	0,023	3,500	775,936	-2,00	5,367	775,927	100,00
32+0,000	-5,499	775,773	100,000	-5,000	775,274	25,00	-3,500	775,649	-2,00	775,628	775,289	775,719	0,091	3,500	775,649	-2,00	5,356	775,630	100,00
32+10,000	-5,431	775,439	100,000	-5,000	775,008	25,00	-3,500	775,383	-2,00	775,320	775,023	775,453	0,133	3,500	775,383	-2,00	5,080	775,255	-66,67
33+0,000	-5,302	775,087	100,000	-5,000	774,784	25,00	-3,500	775,159	-2,00	775,018	774,799	775,229	0,211	3,500	775,159	-2,00	5,344	774,855	-66,67
33+10,000	-5,173	774,787	-66,670	-5,000	774,902	5,00	-3,500	774,977	-2,00	774,758	774,617	775,047	0,289	3,500	774,977	-2,00	5,466	774,591	-66,67
34+0,000	-5,252	774,593	-66,670	-5,000	774,761	5,00	-3,500	774,836	-2,00	774,528	774,476	774,906	0,378	3,500	774,836	-2,00	5,475	774,444	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 50

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
34+10,000	-5,236	774,504	-66,670	-5,000	774,661	5,00	-3,500	774,736	-2,00	774,436	774,376	774,806	0,370	3,500	774,736	-2,00	5,475	774,345	-66,67
35+0,000	-5,147	774,506	-66,670	-5,000	774,604	5,00	-3,500	774,679	-2,00	774,444	774,319	774,749	0,305	3,500	774,679	-2,00	5,537	774,246	-66,67
35+10,000	-5,028	774,569	-66,670	-5,000	774,588	5,00	-3,500	774,663	-2,00	774,465	774,303	774,733	0,268	3,500	774,663	-2,00	5,172	774,473	-66,67
36+0,000	-5,317	774,630	100,000	-5,000	774,313	25,00	-3,500	774,688	-2,00	774,539	774,328	774,758	0,219	3,500	774,688	-2,00	5,072	774,565	-66,67
36+10,000	-5,331	774,711	100,000	-5,000	774,380	25,00	-3,500	774,755	-2,00	774,672	774,395	774,825	0,153	3,500	774,755	-2,00	5,167	774,569	-66,67
37+0,000	-5,334	774,823	100,000	-5,000	774,489	25,00	-3,500	774,864	-2,00	774,847	774,504	774,934	0,087	3,500	774,864	-2,00	5,085	774,732	-66,67
37+10,000	-5,475	775,114	100,000	-5,000	774,639	25,00	-3,500	775,014	-2,00	775,024	774,654	775,084	0,060	3,500	775,014	-2,00	5,337	774,976	100,00
38+0,000	-5,555	775,386	100,000	-5,000	774,831	25,00	-3,500	775,206	-2,00	775,287	774,846	775,276	-0,011	3,500	775,206	-2,00	5,503	775,334	100,00
38+10,000	-5,546	775,622	100,000	-5,000	775,077	25,00	-3,500	775,452	-2,00	775,550	775,092	775,522	-0,028	3,500	775,452	-2,00	5,516	775,592	100,00
39+0,000	-5,552	775,940	100,000	-5,000	775,388	25,00	-3,500	775,763	-2,00	775,872	775,403	775,833	-0,039	3,500	775,763	-2,00	5,476	775,864	100,00
39+10,000	-5,488	776,254	100,000	-5,000	775,766	25,00	-3,500	776,141	-2,00	776,219	775,781	776,211	-0,008	3,500	776,141	-2,00	5,451	776,217	100,00
40+0,000	-5,414	776,624	100,000	-5,000	776,210	25,00	-3,500	776,585	-2,00	776,628	776,225	776,655	0,027	3,500	776,585	-2,00	5,355	776,565	100,00
40+10,000	-5,423	777,110	100,000	-5,000	776,687	25,00	-3,500	777,062	-2,00	777,131	776,702	777,132	0,001	3,500	777,062	-2,00	5,355	777,042	100,00
41+0,000	-5,403	777,567	100,000	-5,000	777,164	25,00	-3,500	777,539	-2,00	777,627	777,179	777,609	-0,018	3,500	777,539	-2,00	5,329	777,493	100,00
41+10,000	-5,460	778,097	100,000	-5,000	777,638	25,00	-3,500	778,013	-2,00	778,089	777,653	778,083	-0,006	3,500	778,013	-2,00	5,354	777,991	100,00
42+0,000	-5,503	778,591	100,000	-5,000	778,087	25,00	-3,500	778,462	-2,00	778,552	778,102	778,532	-0,020	3,500	778,462	-2,00	5,417	778,504	100,00
42+10,000	-5,669	779,179	100,000	-5,000	778,510	25,00	-3,500	778,885	-2,00	778,974	778,525	778,955	-0,019	3,500	778,885	-2,00	5,354	778,864	100,00
43+0,000	-5,509	779,414	100,000	-5,000	778,905	25,00	-3,500	779,280	-2,00	779,319	778,920	779,350	0,031	3,500	779,280	-2,00	5,006	779,201	-66,67
43+1,617	-5,466	779,433	100,000	-5,000	778,967	25,00	-3,500	779,342	-2,00	779,375	778,982	779,412	0,037	3,500	779,342	-2,00	5,018	779,255	-66,67
43+5,000	-5,378	779,471	100,000	-5,000	779,093	25,00	-3,500	779,468	-2,00	779,424	779,108	779,538	0,114	3,500	779,468	-2,00	5,039	779,367	-66,67
43+10,000	-5,320	779,594	100,000	-5,000	779,274	25,00	-3,500	779,649	-2,00	779,548	779,289	779,719	0,171	3,500	779,649	-2,00	5,062	779,532	-66,67
43+15,000	-5,049	779,715	-66,670	-5,000	779,748	5,00	-3,500	779,823	-2,00	779,690	779,463	779,893	0,203	3,500	779,823	-2,00	5,075	779,698	-66,67
44+0,000	-5,113	779,839	-66,670	-5,000	779,915	5,00	-3,500	779,990	-2,00	779,851	779,630	780,060	0,209	3,500	779,990	-2,00	5,072	779,866	-66,67
44+5,000	-5,168	779,963	-66,670	-5,000	780,075	5,00	-3,500	780,150	-2,00	780,012	779,790	780,220	0,208	3,500	780,150	-2,00	5,058	780,036	-66,67
44+10,000	-5,198	780,097	-66,670	-5,000	780,228	5,00	-3,500	780,303	-2,00	780,174	779,943	780,373	0,199	3,500	780,303	-2,00	5,034	780,206	-66,67
44+15,000	-5,641	780,716	100,000	-5,000	780,075	25,00	-3,500	780,450	-2,00	780,513	780,090	780,520	0,007	3,500	780,450	-2,00	5,015	780,365	-66,67
45+0,000	-5,694	780,909	100,000	-5,000	780,215	25,00	-3,500	780,590	-2,00	780,666	780,230	780,660	-0,006	3,500	780,590	-2,00	5,303	780,518	100,00
45+5,000	-5,569	780,917	100,000	-5,000	780,348	25,00	-3,500	780,723	-2,00	780,819	780,363	780,793	-0,026	3,500	780,723	-2,00	5,324	780,672	100,00
45+10,000	-5,390	780,865	100,000	-5,000	780,474	25,00	-3,500	780,849	-2,00	780,971	780,489	780,919	-0,052	3,500	780,849	-2,00	5,352	780,826	100,00
45+15,000	-5,117	780,816	-66,670	-5,000	780,894	5,00	-3,500	780,969	-2,00	780,963	780,609	781,039	0,076	3,500	780,969	-2,00	5,386	780,980	100,00
46+0,000	-5,311	781,018	100,000	-5,000	780,707	25,00	-3,500	781,082	-2,00	781,138	780,722	781,152	0,014	3,500	781,082	-2,00	5,413	781,120	100,00
46+5,000	-5,424	781,237	100,000	-5,000	780,812	25,00	-3,500	781,187	-2,00	781,308	780,827	781,257	-0,051	3,500	781,187	-2,00	5,443	781,255	100,00
46+10,000	-5,541	781,456	100,000	-5,000	780,915	25,00	-3,500	781,290	-2,00	781,444	780,930	781,360	-0,084	3,500	781,290	-2,00	5,479	781,394	100,00
46+15,000	-5,626	781,644	100,000	-5,000	781,017	25,00	-3,500	781,392	-2,00	781,580	781,032	781,462	-0,118	3,500	781,392	-2,00	5,518	781,536	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 50

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
47+0,000	-5,479	781,599	100,000	-5,000	781,120	25,00	-3,500	781,495	-2,00	781,716	781,135	781,565	-0,151	3,500	781,495	-2,00	5,557	781,677	100,00
47+5,000	-5,010	781,515	-66,670	-5,000	781,522	5,00	-3,500	781,597	-2,00	781,681	781,237	781,667	-0,014	3,500	781,597	-2,00	5,576	781,798	100,00
47+10,000	-5,023	781,610	-66,670	-5,000	781,625	5,00	-3,500	781,700	-2,00	781,796	781,340	781,770	-0,026	3,500	781,700	-2,00	5,586	781,911	100,00
47+15,000	-5,068	781,682	-66,670	-5,000	781,727	5,00	-3,500	781,802	-2,00	781,911	781,442	781,872	-0,039	3,500	781,802	-2,00	5,597	782,024	100,00
48+0,000	-5,111	781,756	-66,670	-5,000	781,830	5,00	-3,500	781,905	-2,00	782,027	781,545	781,975	-0,052	3,500	781,905	-2,00	5,607	782,137	100,00
48+5,000	-5,103	781,864	-66,670	-5,000	781,932	5,00	-3,500	782,007	-2,00	782,142	781,647	782,077	-0,065	3,500	782,007	-2,00	5,600	782,232	100,00
48+8,938	-5,294	782,007	100,000	-5,000	781,713	25,00	-3,500	782,088	-2,00	782,185	781,728	782,158	-0,027	3,500	782,088	-2,00	5,574	782,287	100,00
48+10,000	-5,313	782,048	100,000	-5,000	781,735	25,00	-3,500	782,110	-2,00	782,200	781,750	782,180	-0,020	3,500	782,110	-2,00	5,562	782,297	100,00
48+15,000	-5,099	782,071	-66,670	-5,000	782,137	5,00	-3,500	782,212	-2,00	782,254	781,852	782,282	0,028	3,500	782,212	-2,00	5,504	782,341	100,00
49+0,000	-5,151	782,139	-66,670	-5,000	782,240	5,00	-3,500	782,315	-2,00	782,303	781,955	782,385	0,082	3,500	782,315	-2,00	5,447	782,386	100,00
49+5,000	-5,103	782,280	-66,670	-5,010	782,342	5,00	-3,510	782,417	-2,00	782,353	782,057	782,487	0,134	3,500	782,417	-2,00	5,299	782,342	100,00
49+10,000	-7,524	782,512	100,000	-7,115	782,103	25,00	-5,615	782,478	-2,00	782,432	782,160	782,590	0,158	3,500	782,520	-2,00			
49+15,000	-9,915	782,689	100,000	-9,386	782,160	25,00	-7,886	782,535	-2,00	782,510	782,262	782,692	0,182	3,500	782,622	-2,00	5,323	782,570	100,00
50+0,000	-9,550	782,804	100,000	-9,015	782,270	25,00	-7,515	782,645	-2,00	782,629	782,365	782,795	0,166	3,500	782,725	-2,00	5,013	782,641	-66,67
50+5,000	-9,197	782,919	100,000	-8,657	782,379	25,00	-7,157	782,754	-2,00	782,748	782,467	782,897	0,149	3,500	782,827	-2,00	5,053	782,717	-66,67
50+10,000	-6,483	782,996	100,000	-6,021	782,534	25,00	-4,521	782,909	-2,00	782,878	782,570	783,000	0,122	3,500	782,930	-2,00	5,096	782,791	-66,67
50+15,000	-5,473	783,131	100,000	-5,000	782,657	25,00	-3,500	783,032	-2,00	783,030	782,672	783,102	0,072	3,500	783,032	-2,00	5,060	782,918	-66,67
51+0,000	-5,524	783,284	100,000	-5,000	782,760	25,00	-3,500	783,135	-2,00	783,157	782,775	783,205	0,048	3,500	783,135	-2,00	5,024	783,044	-66,67
51+5,000	-5,575	783,438	100,000	-5,000	782,862	25,00	-3,500	783,237	-2,00	783,283	782,877	783,307	0,024	3,500	783,237	-2,00	5,306	783,169	100,00
51+10,000	-5,596	783,561	100,000	-5,000	782,965	25,00	-3,500	783,340	-2,00	783,409	782,980	783,410	0,001	3,500	783,340	-2,00	5,330	783,295	100,00
51+15,000	-5,565	783,627	100,000	-5,000	783,062	25,00	-3,500	783,437	-2,00	783,535	783,077	783,507	-0,028	3,500	783,437	-2,00	5,358	783,421	100,00
52+0,000	-5,543	783,693	100,000	-5,000	783,150	25,00	-3,500	783,525	-2,00	783,660	783,165	783,595	-0,065	3,500	783,525	-2,00	5,396	783,546	100,00
52+5,000	-5,531	783,760	100,000	-5,000	783,229	25,00	-3,500	783,604	-2,00	783,785	783,244	783,674	-0,111	3,500	783,604	-2,00	5,443	783,672	100,00
52+10,000	-5,523	783,820	100,000	-5,000	783,297	25,00	-3,500	783,672	-2,00	783,852	783,312	783,742	-0,110	3,500	783,672	-2,00	5,497	783,794	100,00
52+15,000	-5,517	783,873	100,000	-5,000	783,356	25,00	-3,500	783,731	-2,00	783,911	783,371	783,801	-0,110	3,500	783,731	-2,00	5,532	783,888	100,00
53+0,000	-5,521	783,926	100,000	-5,000	783,405	25,00	-3,500	783,780	-2,00	783,948	783,420	783,850	-0,098	3,500	783,780	-2,00	5,588	783,994	100,00
53+5,000	-5,509	783,954	100,000	-5,000	783,445	25,00	-3,500	783,820	-2,00	783,969	783,460	783,890	-0,079	3,500	783,820	-2,00	5,618	784,063	100,00
53+10,000	-5,502	783,977	100,000	-5,000	783,475	25,00	-3,500	783,850	-2,00	784,019	783,490	783,920	-0,099	3,500	783,850	-2,00	5,598	784,073	100,00
53+15,000	-5,528	784,028	100,000	-5,000	783,500	25,00	-3,500	783,875	-2,00	784,031	783,515	783,945	-0,086	3,500	783,875	-2,00	5,584	784,083	100,00
53+16,259	-5,528	784,034	100,000	-5,000	783,506	25,00	-3,500	783,881	-2,00	784,034	783,521	783,951	-0,083	3,500	783,881	-2,00	5,580	784,086	100,00
54+0,000	-5,530	784,055	100,000	-5,000	783,525	25,00	-3,500	783,900	-2,00	784,042	783,540	783,970	-0,072	3,500	783,900	-2,00	5,570	784,095	100,00
54+10,000	-5,474	784,048	100,000	-5,000	783,575	25,00	-3,500	783,950	-2,00	784,065	783,590	784,020	-0,045	3,500	783,950	-2,00	5,542	784,117	100,00
55+0,000	-5,418	784,042	100,000	-5,000	783,625	25,00	-3,500	784,000	-2,00	784,081	783,640	784,070	-0,011	3,500	784,000	-2,00	5,515	784,140	100,00
55+10,000	-5,359	784,034	100,000	-5,000	783,675	25,00	-3,500	784,050	-2,00	784,075	783,690	784,120	0,045	3,500	784,050	-2,00	5,559	784,233	100,00
55+17,117				-5,000	784,026	5,00	-3,500	784,101	-2,00	784,069	783,741	784,171	0,102	3,500	784,101	-2,00	5,521	784,247	100,00
56+0,000	-5,300	783,925	-66,670	-5,105	784,054	5,00	-3,605	784,129	-2,00	784,065	783,772	784,202	0,137	3,500	784,132	-2,00	5,497	784,253	100,00

1.3.21 Marginal Esquerda 6000

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 6000																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6002+10,000	-1,990	784,523	-66,67	-1,733	784,695	5,00	-0,958	784,360	2,74	-0,233	784,340	2,74	784,297	784,333	784,763	0,466	3,600	784,305	-2,000	4,325	784,291	-2,00	5,903	784,088	-66,67
6002+15,000	-2,202	784,579	-66,67	-1,917	784,769	5,00	-1,142	784,434	2,80	-0,417	784,414	2,80	784,329	784,402	784,832	0,503	3,600	784,372	-2,000	4,325	784,357	-2,00	6,037	784,065	-66,67
6003+0,000	-2,556	784,619	-66,67	-2,215	784,846	5,00	-1,440	784,512	2,80	-0,715	784,491	2,80	784,338	784,471	784,901	0,563	3,600	784,439	-2,000	4,325	784,424	-2,00	6,189	784,033	-66,67
6003+2,047	-2,767	784,614	-66,67	-2,370	784,879	5,00	-1,595	784,544	2,80	-0,870	784,524	2,80	784,392	784,500	784,930	0,538	3,600	784,466	-2,000	4,325	784,452	-2,00	6,259	784,014	-66,67
6003+5,000	-2,954	784,709	-66,67	-2,627	784,927	5,00	-1,852	784,592	2,80	-1,127	784,572	2,80	784,479	784,540	784,970	0,491	3,600	784,506	-2,000	4,325	784,491	-2,00	6,314	784,018	-66,67
6003+10,000	-3,381	784,860	-66,67	-3,154	785,011	5,00	-2,379	784,676	2,80	-1,654	784,656	2,80	784,478	784,609	785,039	0,561	3,600	784,573	-2,000	4,325	784,558	-2,00	6,384	784,040	-66,67
6003+15,000	-3,992	784,967	-66,67	-3,799	785,096	5,00	-3,024	784,761	2,71	-2,299	784,741	2,71	784,324	784,678	785,108	0,784	3,600	784,640	-2,000	4,325	784,625	-2,00	6,454	784,068	-66,67
6004+0,000	-4,402	784,830	-66,67	-3,902	785,164	5,00	-3,127	784,827	2,55	-2,402	784,809	2,55	784,183	784,748	785,178	0,995	3,600	784,706	-2,000	4,325	784,692	-2,00	6,529	784,095	-66,67
6004+0,832	-4,414	784,832	-66,67	-3,900	785,174	5,00	-3,125	784,838	2,52	-2,400	784,819	2,52	784,197	784,759	785,189	0,992	3,600	784,718	-2,000	4,325	784,703	-2,00	6,542	784,099	-66,67
6004+10,000	-4,604	784,825	-66,67	-3,900	785,294	5,00	-3,125	784,955	2,21	-2,400	784,939	2,21	784,312	784,886	785,316	1,004	3,600	784,840	-2,000	4,325	784,826	-2,00	6,761	784,095	-66,67
6005+0,000	-4,933	784,738	-66,67	-3,900	785,427	5,00	-3,125	785,086	2,00	-2,400	785,072	2,00	784,321	785,024	785,454	1,133	3,600	784,974	-2,000	4,325	784,960	-2,00	6,891	784,157	-66,67
6005+10,000	-5,120	784,751	-66,67	-3,900	785,565	5,00	-3,125	785,224	2,00	-2,400	785,210	2,00	784,477	785,162	785,592	1,115	3,600	785,108	-2,000	4,325	785,093	-2,00	6,779	784,370	-66,67
6006+0,000	-5,214	784,831	-66,67	-3,900	785,707	5,00	-3,125	785,368	2,18	-2,400	785,352	2,18	784,487	785,300	785,730	1,243	3,600	785,242	-2,000	4,325	785,227	-2,00	7,037	784,327	-66,67
6006+10,000	-5,469	784,811	-66,67	-3,900	785,857	5,00	-3,125	785,522	2,70	-2,400	785,502	2,70	784,425	785,438	785,868	1,443	3,600	785,375	-2,000	4,325	785,361	-2,00	7,549	784,097	-66,67
6006+13,255	-5,532	784,818	-66,67	-3,900	785,906	5,00	-3,125	785,571	2,87	-2,400	785,551	2,87	784,572	785,482	785,912	1,340	3,600	785,418	-2,000	4,325	785,403	-2,00	7,504	784,163	-66,67
6006+15,000	-5,488	784,872	-66,67	-3,900	785,931	5,00	-3,125	785,597	2,96	-2,400	785,576	2,96	784,588	785,505	785,935	1,347	3,600	785,441	-2,000	4,325	785,426	-2,00	7,483	784,195	-66,67
6007+0,000	-5,577	784,885	-66,67	-3,900	786,003	5,00	-3,125	785,671	3,22	-2,400	785,648	3,22	784,534	785,571	786,001	1,467	3,600	785,479	-2,710	4,325	785,459	-2,71	7,428	784,284	-66,67
6007+5,000	-5,761	784,830	-66,67	-3,900	786,071	5,00	-3,125	785,741	3,40	-2,400	785,716	3,40	784,528	785,635	786,065	1,537	3,600	785,517	-3,400	4,325	785,492	-3,40	7,559	784,252	-66,67
6007+9,611	-5,752	784,894	-66,67	-3,900	786,129	5,00	-3,125	785,798	3,40	-2,400	785,774	3,40	784,438	785,692	786,122	1,684	3,600	785,573	-3,400	4,325	785,548	-3,40	7,800	784,149	-66,67
6007+10,000	-5,771	784,886	-66,67	-3,900	786,134	5,00	-3,125	785,803	3,40	-2,400	785,779	3,40	784,431	785,697	786,127	1,696	3,600	785,578	-3,400	4,325	785,553	-3,40	7,820	784,140	-66,67
6007+15,000	-6,133	784,706	-66,67	-3,900	786,194	5,00	-3,125	785,864	3,40	-2,400	785,839	3,40	784,433	785,758	786,188	1,755	3,600	785,637	-3,400	4,325	785,613	-3,40	8,036	784,057	-66,67
6008+0,000	-6,107	784,796	-66,67	-3,900	786,268	5,00	-3,125	785,942	4,00	-2,400	785,913	4,00	784,587	785,817	786,247	1,660	3,600	785,772	-1,280	4,325	785,763	-1,28	8,022	784,095	-66,67
6008+5,000	-6,004	784,923	-66,67	-3,900	786,325	5,00	-3,125	785,999	4,00	-2,400	785,970	4,00	784,701	785,874	786,304	1,603	3,600	785,863	-0,320	4,325	785,861	-0,32	8,090	784,106	-66,67
6008+5,968	-6,115	784,859	-66,67	-3,900	786,336	5,00	-3,125	786,010	4,00	-2,400	785,981	4,00	784,723	785,885	786,315	1,592	3,600	785,880	-0,140	4,325	785,879	-0,14	8,104	784,108	-66,67
6008+7,544	-6,220	784,807	-66,67	-3,900	786,354	5,00	-3,125	786,028	4,00	-2,400	785,999	4,00	784,874	785,903	786,333	1,459	3,600	785,910	0,190	4,325	785,911	0,19	8,071	784,148	-66,67
6008+9,514	-6,409	784,746	-66,67	-3,962	786,378	5,00	-3,187	786,052	4,00	-2,462	786,023	4,00	784,662	785,924	786,354	1,692	3,600	785,947	0,630	4,325	785,952	0,63	8,052	784,183	-66,67
6008+10,000	-6,446	784,751	-66,67	-3,996	786,385	5,00	-3,222	786,059	4,00	-2,496	786,030	4,00	784,611	785,930	786,360	1,749	3,600	785,956	0,740	4,325	785,962	0,74	8,048	784,191	-66,67
6008+11,484	-6,622	784,758	-66,67	-4,149	786,407	5,00	-3,374	786,081	4,00	-2,649	786,052	4,00	784,456	785,946	786,376	1,920	3,600	785,985	1,070	4,325	785,992	1,07	8,038	784,214	-66,67
6008+15,105	-9,549	784,790	-66,67	-6,900	786,556	5,00	-6,125	786,230	4,00	-5,400	786,201	4,00	784,389	785,985	786,415	2,026	3,600	786,053	1,880	4,325	786,066	1,88	7,991	784,284	-66,67
6009+0,000	-9,699	784,741	-66,67	-6,900	786,607	5,00	-6,125	786,281	4,00	-5,400	786,252	4,00	784,455	786,036	786,466	2,011	3,600	786,144	2,980	4,325	786,165	2,98	8,081	784,275	-66,67
6009+5,000	-9,214	784,685	-66,67	-6,900	786,228	5,00	-6,125	785,844	-4,00	-5,400	785,873	-4,00	784,487	786,089	786,519	2,032	3,600	786,233	4,000	4,325	786,262	4,00	8,837	784,232	-66,67
6009+6,141	-9,203	784,705	-66,67	-6,900	786,240	5,00	-6,125	785,856	-4,00	-5,400	785,885	-4,00	784,496	786,101	786,531	2,035	3,600	786,245	4,000	4,325	786,274	4,00	8,856	784,231	-66,67
6009+10,000	-9,132	784,793	-66,67	-6,900	786,281	5,00	-6,125	785,897	-3,98	-5,400	785,926	-3,98	784,531	786,141	786,571	2,040	3,600	786,267	3,490	4,325	786,292	3,49	8,902	784,240	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 6000																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6009+15,000	-9,150	784,768	-66,67	-6,791	786,340	5,00	-6,017	785,957	-3,94	-5,291	785,985	-3,94	784,581	786,194	786,624	2,043	3,600	786,279	2,370	4,325	786,296	2,37	8,916	784,281	-66,67
6009+17,178	-8,527	784,749	-66,67	-6,062	786,392	5,00	-5,287	786,009	-3,92	-4,562	786,037	-3,92	784,605	786,217	786,647	2,042	3,600	786,284	1,880	4,325	786,298	1,88	8,853	784,345	-66,67
6010+0,000	-8,496	784,699	-66,67	-5,900	786,429	5,00	-5,125	786,046	-3,90	-4,400	786,074	-3,90	784,636	786,246	786,676	2,040	3,600	786,291	1,250	4,325	786,300	1,25	8,790	784,415	-66,67
6010+10,000	-8,654	784,702	-66,67	-5,900	786,538	5,00	-5,125	786,155	-3,82	-4,400	786,183	-3,82	784,745	786,351	786,781	2,036	3,600	786,289	-1,720	4,325	786,277	-1,72	8,676	784,592	-66,67
6011+0,000	-8,739	784,753	-66,67	-5,900	786,646	5,00	-5,125	786,264	-3,74	-4,400	786,291	-3,74	784,762	786,456	786,886	2,124	3,600	786,462	0,170	4,325	786,463	0,17	8,821	784,596	-66,67
6011+6,692	-8,888	784,727	-66,67	-5,900	786,719	5,00	-5,125	786,337	-3,69	-4,400	786,364	-3,69	784,700	786,526	786,956	2,256	3,600	786,578	1,440	4,325	786,588	1,44	8,945	784,581	-66,67
6011+10,000	-8,931	784,695	-66,67	-5,839	786,757	5,00	-5,064	786,375	-3,66	-4,339	786,402	-3,66	784,656	786,561	786,991	2,335	3,600	786,635	2,070	4,325	786,650	2,07	9,031	784,557	-66,67
6011+15,000	-8,787	784,670	-66,67	-5,561	786,821	5,00	-4,786	786,440	-3,62	-4,061	786,466	-3,62	784,647	786,613	787,043	2,396	3,600	786,722	3,010	4,325	786,744	3,01	9,026	784,610	-66,67
6012+0,000	-8,576	784,658	-66,67	-5,234	786,886	5,00	-4,459	786,505	-3,60	-3,734	786,531	-3,60	784,664	786,666	787,096	2,432	3,600	786,795	3,600	4,325	786,821	3,60	9,016	784,668	-66,67
6012+0,582	-8,545	784,660	-66,67	-5,194	786,894	5,00	-4,420	786,513	-3,60	-3,694	786,539	-3,60	784,666	786,672	787,102	2,436	3,600	786,801	3,600	4,325	786,827	3,60	9,015	784,675	-66,67
6012+5,000	-8,339	784,658	-66,67	-4,880	786,964	5,00	-4,105	786,586	-3,23	-3,380	786,609	-3,23	784,655	786,718	787,148	2,493	3,600	786,835	3,230	4,325	786,858	3,23	8,974	784,730	-66,67
6012+10,000	-8,150	784,623	-66,67	-4,498	787,058	5,00	-3,723	786,686	-2,27	-2,998	786,703	-2,27	784,593	786,771	787,201	2,608	3,600	786,853	2,290	4,325	786,869	2,29	8,878	784,797	-66,67
6012+14,472	-7,899	784,625	-66,67	-4,134	787,135	5,00	-3,359	786,770	-1,41	-2,634	786,780	-1,41	784,530	786,817	787,247	2,717	3,600	786,869	1,440	4,325	786,880	1,44	8,856	784,816	-66,67
6013+0,000	-7,696	784,643	-66,67	-3,827	787,222	5,00	-3,052	786,865	-0,34	-2,327	786,867	-0,34	784,746	786,875	787,305	2,559	3,600	786,890	0,390	4,325	786,892	0,39	8,869	784,810	-66,67
6013+9,108	-9,609	783,486	-66,67	-3,800	787,358	5,00	-3,025	787,013	1,41	-2,300	787,003	1,41	784,289	786,971	787,401	3,112	3,600	786,923	-1,330	4,325	786,913	-1,33	8,866	784,818	-66,67
6013+10,000	-9,680	783,452	-66,67	-3,800	787,372	5,00	-3,025	787,028	1,58	-2,300	787,017	1,58	784,128	786,980	787,410	3,282	3,600	786,926	-1,500	4,325	786,915	-1,50	8,861	784,822	-66,67
6013+15,000	-12,810	786,335	-66,67	-10,873	787,626	5,00	-10,098	787,289	2,54	-9,373	787,271	2,54	785,322	787,033	787,463	2,141	3,600	786,941	-2,560	4,325	786,922	-2,56	8,756	784,895	-66,67
6014+0,000	-11,099	786,511	-66,67	-9,295	787,713	5,00	-8,520	787,384	3,50	-7,795	787,358	3,50	784,913	787,085	787,515	2,602	3,600	786,959	-3,500	4,325	786,934	-3,50	8,655	784,967	-66,67
6014+4,062	-9,944	786,681	-66,67	-8,370	787,730	5,00	-7,595	787,401	3,60	-6,870	787,375	3,60	784,996	787,128	787,558	2,562	3,600	786,998	-3,600	4,325	786,972	-3,60	8,736	784,950	-66,67
6014+5,000	-9,738	786,704	-66,67	-8,193	787,734	5,00	-7,418	787,405	3,60	-6,693	787,379	3,60	785,105	787,138	787,568	2,463	3,600	787,008	-3,600	4,325	786,982	-3,60	8,718	784,972	-66,67
6014+10,000	-8,810	786,842	-66,67	-7,445	787,751	5,00	-6,670	787,422	3,47	-5,945	787,396	3,47	785,536	787,190	787,620	2,084	3,600	787,077	-3,150	4,325	787,054	-3,15	8,472	785,195	-66,67
6014+15,000	-8,231	786,967	-66,67	-7,020	787,774	5,00	-6,245	787,442	3,20	-5,520	787,419	3,20	785,572	787,242	787,672	2,100	3,600	787,163	-2,200	4,325	787,147	-2,20	8,661	785,135	-66,67
6014+19,016	-8,140	786,979	-66,67	-6,907	787,801	5,00	-6,132	787,468	2,98	-5,407	787,446	2,98	785,575	787,285	787,715	2,140	3,600	787,213	-2,000	4,325	787,198	-2,00	8,775	785,113	-66,67
6015+0,000	-8,143	786,982	-66,67	-6,904	787,808	5,00	-6,129	787,474	2,93	-5,404	787,453	2,93	785,572	787,295	787,725	2,153	3,600	787,223	-2,000	4,325	787,208	-2,00	8,799	785,109	-66,67
6015+10,000	-8,124	787,068	-66,67	-6,900	787,884	5,00	-6,125	787,546	2,39	-5,400	787,529	2,39	785,688	787,400	787,830	2,142	3,600	787,328	-2,000	4,325	787,313	-2,00	8,686	785,317	-66,67
6016+0,000	-8,047	787,164	-66,67	-6,900	787,929	5,00	-6,125	787,580	0,75	-5,400	787,574	1,29	786,048	787,505	787,935	1,887	3,600	787,433	-2,000	4,325	787,418	-2,00	8,330	785,679	-66,67
6016+10,000	-7,905	787,230	-66,67	-6,900	787,900	5,00	-6,125	787,519	-3,67	-5,400	787,545	-1,24	785,901	787,612	788,042	2,141	3,600	787,540	-2,000	4,325	787,526	-2,00	8,306	785,803	-66,67
6017+0,000	-7,843	787,350	-66,67	-6,900	787,979	5,00	-6,125	787,587	-5,00	-5,400	787,624	-2,00	785,942	787,732	788,162	2,220	3,600	787,660	-2,000	4,325	787,645	-2,00	8,209	785,987	-66,67
6017+10,000	-7,793	787,513	-66,67	-6,900	788,108	5,00	-6,125	787,717	-5,00	-5,400	787,753	-2,00	786,012	787,861	788,291	2,279	3,600	787,789	-2,000	4,325	787,774	-2,00	8,058	786,217	-66,67
6018+0,000	-7,282	787,976	-66,67	-6,900	788,231	5,00	-6,125	787,839	-5,00	-5,400	787,876	-2,00	786,185	787,984	788,414	2,229	3,600	787,912	-2,000	4,325	787,897	-2,00	8,008	786,373	-66,67
6018+10,000	-7,490	787,951	-66,67	-6,900	788,344	5,00	-6,125	787,953	-5,00	-5,400	787,989	-2,00	786,163	788,097	788,527	2,364	3,600	788,025	-2,000	4,325	788,011	-2,00	7,799	786,626	-66,67
6019+0,000	-6,923	788,434	-66,67	-6,900	788,449	5,00	-6,125	788,058	-5,00	-5,400	788,094	-2,00	786,977	788,202	788,632	1,655	3,600	788,130	-2,000	4,325	788,116	-2,00	7,497	786,932	-66,67
6019+10,000	-7,278	788,623	100,00	-6,900	788,245	25,00	-6,125	788,154	-5,00	-5,400	788,190	-2,00	787,801	788,298	788,728	0,927	3,600	788,226	-2,000	4,325	788,212	-2,00	6,852	787,458	-66,67
6020+0,000	-7,323	788,755	100,00	-6,900	788,332	25,00	-6,125	788,241	-5,00	-5,400	788,277	-2,00	787,378	788,385	788,815	1,437	3,600	788,313	-2,000	4,325	788,298	-2,00	7,278	787,261	-66,67
6020+10,000	-7,375	788,885	100,00	-6,900	788,410	25,00	-6,125	788,319	-5,00	-5,400	788,355	-2,00	788,764	788,463	788,893	0,129	3,600	788,391	-2,000	4,325	788,377	-2,00	5,720	788,378	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 6000

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6021+0,000	-7,384	788,465	-66,67	-6,900	788,787	5,00	-6,125	788,396	-5,00	-5,400	788,432	-2,00	788,920	788,540	788,970	0,050	3,600	788,468	-2,000	4,325	788,454	-2,00	5,168	788,823	-66,67
6021+10,000	-7,121	788,716	-66,67	-6,900	788,864	5,00	-6,125	788,473	-5,00	-5,400	788,509	-2,00	788,725	788,617	789,047	0,322	3,600	788,545	-2,000	4,325	788,530	-2,00	5,472	788,972	100,00
6022+0,000	-7,285	789,026	100,00	-6,900	788,640	25,00	-6,125	788,549	-5,00	-5,400	788,585	-2,00	789,008	788,693	789,123	0,115	3,600	788,621	-2,000	4,325	788,607	-2,00	5,503	789,080	100,00
6022+10,000	-7,039	788,924	-66,67	-6,900	789,017	5,00	-6,125	788,626	-5,00	-5,400	788,662	-2,00	788,353	788,770	789,200	0,847	3,600	788,698	-2,000	4,325	788,684	-2,00	5,422	788,883	-66,67
6023+0,000	-7,860	788,454	-66,67	-6,900	789,094	5,00	-6,125	788,703	-5,00	-5,400	788,739	-2,00	787,789	788,847	789,277	1,488	3,600	788,775	-2,000	4,325	788,760	-2,00	5,908	788,636	-66,67
6023+10,000	-7,809	788,565	-66,67	-6,900	789,171	5,00	-6,125	788,779	-5,00	-5,400	788,816	-2,00	788,074	788,924	789,354	1,280	3,600	788,852	-2,000	4,325	788,837	-2,00	5,694	788,856	-66,67
6024+0,000	-7,476	788,864	-66,67	-6,900	789,248	5,00	-6,125	788,857	-5,00	-5,400	788,893	-2,00	788,237	789,001	789,431	1,194	3,600	788,929	-2,000	4,325	788,915	-2,00	5,784	788,873	-66,67
6024+10,000	-7,683	788,815	-66,67	-6,900	789,337	5,00	-6,125	788,946	-5,00	-5,400	788,982	-2,00	788,401	789,090	789,520	1,119	3,600	789,018	-2,000	4,325	789,004	-2,00	5,804	788,949	-66,67
6025+0,000	-7,538	789,015	-66,67	-6,900	789,440	5,00	-6,125	789,049	-5,00	-5,400	789,085	-2,00	788,516	789,193	789,623	1,107	3,600	789,121	-2,000	4,325	789,107	-2,00	5,754	789,085	-66,67
6025+10,000	-7,630	789,071	-66,67	-6,900	789,557	5,00	-6,125	789,166	-5,00	-5,400	789,202	-2,00	788,692	789,310	789,740	1,048	3,600	789,238	-2,000	4,325	789,224	-2,00	5,528	789,353	-66,67
6026+0,000	-7,656	789,185	-66,67	-6,900	789,688	5,00	-6,125	789,297	-5,00	-5,400	789,333	-2,00	788,927	789,441	789,871	0,944	3,600	789,369	-2,000	4,325	789,355	-2,00	5,396	789,572	-66,67
6026+10,000	-7,598	789,368	-66,67	-6,900	789,834	5,00	-6,125	789,442	-5,00	-5,400	789,479	-2,00	789,165	789,587	790,017	0,852	3,600	789,515	-2,000	4,325	789,500	-2,00	5,242	789,820	-66,67
6027+0,000	-7,222	789,777	-66,67	-6,900	789,992	5,00	-6,125	789,601	-5,00	-5,400	789,637	-2,00	790,292	789,745	790,175	-0,117	3,600	789,673	-2,000	4,325	789,659	-2,00	5,643	790,271	100,00
6027+10,000	-7,216	789,943	-66,67	-6,900	790,153	5,00	-6,125	789,762	-5,00	-5,400	789,798	-2,00	790,564	789,906	790,336	-0,228	3,600	789,834	-2,000	4,325	789,820	-2,00	5,678	790,467	100,00
6028+0,000	-7,508	790,622	100,00	-6,900	790,014	25,00	-6,125	789,923	-5,00	-5,400	789,959	-2,00	790,735	790,067	790,497	-0,238	3,600	789,995	-2,000	4,325	789,981	-2,00	5,687	790,637	100,00
6028+10,000	-7,652	790,927	100,00	-6,900	790,176	25,00	-6,125	790,084	-5,00	-5,400	790,121	-2,00	790,869	790,229	790,659	-0,210	3,600	790,157	-2,000	4,325	790,142	-2,00	5,622	790,733	100,00
6029+0,000	-7,745	791,181	100,00	-6,900	790,337	25,00	-6,125	790,245	-5,00	-5,400	790,282	-2,00	790,853	790,390	790,820	-0,033	3,600	790,318	-2,000	4,325	790,303	-2,00	5,524	790,797	100,00
6029+10,000	-7,662	791,260	100,00	-6,900	790,498	25,00	-6,125	790,407	-5,00	-5,400	790,443	-2,00	790,907	790,551	790,981	0,074	3,600	790,479	-2,000	4,325	790,464	-2,00	5,467	790,901	100,00
6030+0,000	-7,369	791,128	100,00	-6,900	790,659	25,00	-6,125	790,568	-5,00	-5,400	790,604	-2,00	791,069	790,712	791,142	0,073	3,600	790,640	-2,000	4,325	790,625	-2,00	5,473	791,067	100,00
6030+10,000	-7,499	791,420	100,00	-6,900	790,820	25,00	-6,125	790,729	-5,00	-5,400	790,765	-2,00	791,285	790,873	791,303	0,018	3,600	790,801	-2,000	4,325	790,787	-2,00	5,471	791,227	100,00
6031+0,000	-7,574	791,656	100,00	-6,900	790,981	25,00	-6,125	790,890	-5,00	-5,400	790,926	-2,00	791,548	791,034	791,464	-0,084	3,600	790,962	-2,000	4,325	790,948	-2,00	5,547	791,464	100,00
6031+10,000	-7,108	791,304	-66,67	-6,900	791,442	5,00	-6,125	791,051	-5,00	-5,400	791,087	-2,00	791,641	791,195	791,625	-0,016	3,600	791,123	-2,000	4,325	791,109	-2,00	5,570	791,649	100,00
6032+0,000	-7,166	791,426	-66,67	-6,900	791,603	5,00	-6,125	791,212	-5,00	-5,400	791,248	-2,00	791,659	791,356	791,786	0,127	3,600	791,284	-2,000	4,325	791,270	-2,00	5,529	791,768	100,00
6032+10,000	-7,224	791,548	-66,67	-6,900	791,765	5,00	-6,125	791,373	-5,00	-5,400	791,410	-2,00	791,677	791,518	791,948	0,271	3,600	791,446	-2,000	4,325	791,431	-2,00	5,200	791,779	-66,67
6033+0,000	-6,943	791,897	-66,67	-6,900	791,926	5,00	-6,125	791,535	-5,00	-5,400	791,571	-2,00	791,928	791,679	792,109	0,181	3,600	791,607	-2,000	4,325	791,592	-2,00	5,462	792,023	100,00
6033+10,000	-7,286	792,173	100,00	-6,900	791,787	25,00	-6,125	791,696	-5,00	-5,400	791,732	-2,00	792,247	791,840	792,270	0,023	3,600	791,768	-2,000	4,325	791,753	-2,00	5,505	792,228	100,00
6034+0,000	-7,488	792,536	100,00	-6,900	791,948	25,00	-6,125	791,857	-5,00	-5,400	791,893	-2,00	792,525	792,001	792,431	-0,094	3,600	791,929	-2,000	4,325	791,915	-2,00	5,155	792,292	-66,67
6034+10,000	-7,561	792,770	100,00	-6,900	792,109	25,00	-6,125	792,018	-5,00	-5,400	792,054	-2,00	792,696	792,162	792,592	-0,104	3,600	792,090	-2,000	4,325	792,076	-2,00	5,139	792,464	-66,67
6035+0,000	-7,252	792,622	100,00	-6,900	792,270	25,00	-6,125	792,179	-5,00	-5,400	792,215	-2,00	793,050	792,323	792,753	-0,297	3,600	792,251	-2,000	4,325	792,237	-2,00	5,706	792,912	100,00
6035+10,000	-6,969	792,686	-66,67	-6,900	792,731	5,00	-6,125	792,340	-5,00	-5,400	792,376	-2,00	793,524	792,484	792,914	-0,610	3,600	792,412	-2,000	4,325	792,398	-2,00	5,991	793,358	100,00
6036+0,000	-7,321	793,013	100,00	-6,900	792,593	25,00	-6,125	792,501	-5,00	-5,400	792,538	-2,00	793,871	792,646	793,076	-0,795	3,600	792,574	-2,000	4,325	792,559	-2,00	5,986	793,515	100,00
6036+10,000	-7,773	793,626	100,00	-6,900	792,754	25,00	-6,125	792,663	-5,00	-5,400	792,699	-2,00	793,845	792,807	793,237	-0,608	3,600	792,735	-2,000	4,325	792,720	-2,00	5,749	793,439	100,00
6037+0,000	-7,592	793,607	100,00	-6,900	792,915	25,00	-6,125	792,824	-5,00	-5,400	792,860	-2,00	793,904	792,968	793,398	-0,506	3,600	792,896	-2,000	4,325	792,881	-2,00	5,864	793,715	100,00
6037+10,000	-7,402	793,578	100,00	-6,900	793,076	25,00	-6,125	792,985	-5,00	-5,400	793,021	-2,00	793,987	793,129	793,559	-0,428	3,600	793,057	-2,000	4,325	793,043	-2,00	5,853	793,865	100,00
6038+0,000	-7,576	793,913	100,00	-6,900	793,237	25,00	-6,125	793,146	-5,00	-5,400	793,182	-2,00	794,029	793,290	793,720	-0,309	3,600	793,218	-2,000	4,325	793,204	-2,00	5,804	793,977	100,00

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 6000

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6038+10,000	-7,553	794,051	100,00	-6,900	793,398	25,00	-6,125	793,307	-5,00	-5,400	793,343	-2,00	794,114	793,451	793,881	-0,233	3,600	793,379	-2,000	4,325	793,365	-2,00	5,715	794,049	100,00
6039+0,000	-7,440	794,100	100,00	-6,900	793,559	25,00	-6,125	793,468	-5,00	-5,400	793,504	-2,00	794,437	793,612	794,042	-0,395	3,600	793,540	-2,000	4,325	793,526	-2,00	5,882	794,377	100,00
6039+10,000	-7,371	794,190	100,00	-6,900	793,719	25,00	-6,125	793,628	-5,00	-5,400	793,664	-2,00	794,533	793,772	794,202	-0,331	3,600	793,700	-2,000	4,325	793,686	-2,00	5,803	794,459	100,00
6040+0,000	-7,381	794,344	100,00	-6,900	793,863	25,00	-6,125	793,772	-5,00	-5,400	793,808	-2,00	794,648	793,916	794,346	-0,302	3,600	793,844	-2,000	4,325	793,829	-2,00	5,810	794,609	100,00
6040+10,000	-7,393	794,479	100,00	-6,900	793,987	25,00	-6,125	793,895	-5,00	-5,400	793,932	-2,00	794,804	794,040	794,470	-0,334	3,600	793,968	-2,000	4,325	793,953	-2,00	5,939	794,862	100,00
6041+0,000	-7,387	794,577	100,00	-6,900	794,090	25,00	-6,125	793,999	-5,00	-5,400	794,035	-2,00	794,939	794,143	794,573	-0,366	3,600	794,071	-2,000	4,325	794,057	-2,00	5,969	794,996	100,00
6041+10,000	-7,395	794,669	100,00	-6,900	794,174	25,00	-6,125	794,083	-5,00	-5,400	794,119	-2,00	795,083	794,227	794,657	-0,426	3,600	794,155	-2,000	4,325	794,140	-2,00	6,006	795,116	100,00
6042+0,000	-7,476	794,813	100,00	-6,900	794,237	25,00	-6,125	794,146	-5,00	-5,400	794,182	-2,00	795,160	794,290	794,720	-0,440	3,600	794,218	-2,000	4,325	794,204	-2,00	5,987	795,161	100,00
6042+10,000	-7,515	794,896	100,00	-6,900	794,281	25,00	-6,125	794,190	-5,00	-5,400	794,226	-2,00	795,109	794,334	794,764	-0,345	3,600	794,262	-2,000	4,325	794,247	-2,00	5,937	795,154	100,00
6043+0,000	-7,311	794,716	100,00	-6,900	794,304	25,00	-6,125	794,213	-5,00	-5,400	794,249	-2,00	794,903	794,357	794,787	-0,116	3,600	794,285	-2,000	4,325	794,271	-2,00	5,812	795,053	100,00
6043+10,000	-7,460	794,868	100,00	-6,900	794,308	25,00	-6,125	794,217	-5,00	-5,400	794,253	-2,00	795,013	794,361	794,791	-0,222	3,600	794,289	-2,000	4,325	794,274	-2,00	5,753	794,997	100,00
6044+0,000	-7,380	794,771	100,00	-6,900	794,291	25,00	-6,125	794,200	-5,00	-5,400	794,236	-2,00	795,049	794,344	794,774	-0,275	3,600	794,272	-2,000	4,325	794,258	-2,00	5,880	795,107	100,00
6044+10,000	-7,358	794,713	100,00	-6,900	794,254	25,00	-6,125	794,163	-5,00	-5,400	794,199	-2,00	794,989	794,307	794,737	-0,252	3,600	794,235	-2,000	4,325	794,221	-2,00	5,973	795,163	100,00
6045+0,000	-7,334	794,632	100,00	-6,900	794,198	25,00	-6,125	794,107	-5,00	-5,400	794,143	-2,00	794,701	794,251	794,681	-0,020	3,600	794,179	-2,000	4,325	794,164	-2,00	5,864	794,998	100,00
6045+10,000	-6,965	794,378	-66,67	-6,900	794,421	5,00	-6,125	794,030	-5,00	-5,400	794,066	-2,00	794,244	794,174	794,604	0,360	3,600	794,102	-2,000	4,325	794,088	-2,00	5,604	794,661	100,00
6046+0,000	-7,538	794,662	100,00	-6,900	794,024	25,00	-6,125	793,933	-5,00	-5,400	793,969	-2,00	794,768	794,077	794,507	-0,261	3,600	794,005	-2,000	4,325	793,991	-2,00	5,807	794,768	100,00
6046+10,000	-7,568	794,575	100,00	-6,900	793,907	25,00	-6,125	793,816	-5,00	-5,400	793,852	-2,00	795,002	793,960	794,390	-0,612	3,600	793,888	-2,000	4,325	793,874	-2,00	6,162	795,005	100,00
6047+0,000	-7,617	794,488	100,00	-6,900	793,771	25,00	-6,125	793,679	-5,00	-5,400	793,716	-2,00	794,956	793,824	794,254	-0,702	3,600	793,752	-2,000	4,325	793,737	-2,00	6,366	795,073	100,00
6047+10,000	-7,787	794,500	100,00	-6,900	793,614	25,00	-6,125	793,522	-5,00	-5,400	793,559	-2,00	794,946	793,667	794,097	-0,849	3,600	793,595	-2,000	4,325	793,580	-2,00	6,572	795,122	100,00
6048+0,000	-8,087	794,624	100,00	-6,900	793,437	25,00	-6,125	793,345	-5,00	-5,400	793,382	-2,00	794,967	793,490	793,920	-1,047	3,600	793,418	-2,000	4,325	793,403	-2,00	6,738	795,110	100,00
6048+10,000	-8,109	794,449	100,00	-6,900	793,240	25,00	-6,125	793,148	-5,00	-5,400	793,185	-2,00	795,015	793,293	793,723	-1,292	3,600	793,221	-2,000	4,325	793,206	-2,00	6,968	795,143	100,00
6049+0,000	-8,150	794,273	100,00	-6,900	793,023	25,00	-6,125	792,931	-5,00	-5,400	792,968	-2,00	794,879	793,076	793,506	-1,373	3,600	793,004	-2,000	4,325	792,989	-2,00	7,064	795,022	100,00
6049+10,000	-8,116	794,002	100,00	-6,900	792,786	25,00	-6,125	792,694	-5,00	-5,400	792,731	-2,00	794,607	792,839	793,269	-1,338	3,600	792,767	-2,000	4,325	792,752	-2,00	7,139	794,861	100,00
6050+0,000	-8,214	793,843	100,00	-6,900	792,529	25,00	-6,125	792,437	-5,00	-5,400	792,474	-2,00	794,491	792,582	793,012	-1,479	3,600	792,510	-2,000	4,325	792,495	-2,00	7,359	794,823	100,00
6050+10,000	-8,396	793,748	100,00	-6,900	792,251	25,00	-6,125	792,160	-5,00	-5,400	792,196	-2,00	794,399	792,304	792,734	-1,665	3,600	792,232	-2,000	4,325	792,218	-2,00	7,503	794,691	100,00
6051+0,000	-8,699	793,753	100,00	-6,900	791,954	25,00	-6,125	791,863	-5,00	-5,400	791,899	-2,00	794,270	792,007	792,437	-1,833	3,600	791,935	-2,000	4,325	791,921	-2,00	7,668	794,558	100,00
6051+10,000	-8,383	793,120	100,00	-6,900	791,637	25,00	-6,125	791,546	-5,00	-5,400	791,582	-2,00	793,746	791,690	792,120	-1,626	3,600	791,618	-2,000	4,325	791,603	-2,00	7,636	794,209	100,00
6052+0,000	-8,648	793,048	100,00	-6,900	791,300	25,00	-6,125	791,208	-5,00	-5,400	791,245	-2,00	793,719	791,353	791,783	-1,936	3,600	791,281	-2,000	4,325	791,266	-2,00	7,994	794,230	100,00
6052+10,000	-8,827	792,870	100,00	-6,900	790,942	25,00	-6,125	790,851	-5,00	-5,400	790,887	-2,00	793,491	790,995	791,425	-2,066	3,600	790,923	-2,000	4,325	790,909	-2,00	8,158	794,036	100,00
6053+0,000	-8,929	792,594	100,00	-6,900	790,565	25,00	-6,125	790,474	-5,00	-5,400	790,510	-2,00	793,174	790,618	791,048	-2,126	3,600	790,546	-2,000	4,325	790,532	-2,00	8,184	793,685	100,00
6053+10,000	-9,032	792,301	100,00	-6,900	790,169	25,00	-6,125	790,078	-5,00	-5,400	790,114	-2,00	792,842	790,222	790,652	-2,190	3,600	790,150	-2,000	4,325	790,136	-2,00	8,216	793,321	100,00
6053+14,625	-9,143	792,227	100,00	-6,900	789,984	25,00	-6,125	789,893	-5,00	-5,400	789,929	-2,00	792,714	790,037	790,467	-2,247	3,600	789,965	-2,000	4,325	789,950	-2,00	8,321	793,241	100,00
6053+15,000	-9,152	792,221	100,00	-6,900	789,969	25,00	-6,125	789,878	-5,00	-5,400	789,914	-2,00	792,704	790,022	790,452	-2,252	3,600	789,950	-2,000	4,325	789,936	-2,00	8,326	793,231	100,00
6054+0,000	-9,273	792,142	100,00	-6,900	789,769	25,00	-6,125	789,678	-5,00	-5,400	789,714	-2,00	792,616	789,822	790,252	-2,364	3,600	789,750	-2,000	4,325	789,736	-2,00	8,401	793,106	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 6000

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6002+10,000	-1,990	784,523	-66,670	-1,733	784,695	5,00	-0,233	784,770	2,74	784,297	784,333	784,763	0,466	3,600	784,665	-2,74	5,903	784,088	-66,67
6002+15,000	-2,202	784,579	-66,670	-1,917	784,769	5,00	-0,417	784,844	2,80	784,329	784,402	784,832	0,503	3,600	784,732	-2,80	6,037	784,065	-66,67
6003+0,000	-2,556	784,619	-66,670	-2,215	784,846	5,00	-0,715	784,921	2,80	784,338	784,471	784,901	0,563	3,600	784,801	-2,80	6,189	784,033	-66,67
6003+2,047	-2,767	784,614	-66,670	-2,370	784,879	5,00	-0,870	784,954	2,80	784,392	784,500	784,930	0,538	3,600	784,829	-2,80	6,259	784,014	-66,67
6003+5,000	-2,954	784,709	-66,670	-2,627	784,927	5,00	-1,127	785,002	2,80	784,479	784,540	784,970	0,491	3,600	784,870	-2,80	6,314	784,018	-66,67
6003+10,000	-3,381	784,860	-66,670	-3,154	785,011	5,00	-1,654	785,086	2,80	784,478	784,609	785,039	0,561	3,600	784,939	-2,80	6,384	784,040	-66,67
6003+15,000	-3,992	784,967	-66,670	-3,799	785,096	5,00	-2,299	785,171	2,71	784,324	784,678	785,108	0,784	3,600	785,011	-2,71	6,454	784,068	-66,67
6004+0,000	-4,402	784,830	-66,670	-3,902	785,164	5,00	-2,402	785,239	2,55	784,183	784,748	785,178	0,995	3,600	785,086	-2,55	6,529	784,095	-66,67
6004+0,832	-4,414	784,832	-66,670	-3,900	785,174	5,00	-2,400	785,249	2,52	784,197	784,759	785,189	0,992	3,600	785,098	-2,52	6,542	784,099	-66,67
6004+10,000	-4,604	784,825	-66,670	-3,900	785,294	5,00	-2,400	785,369	2,21	784,312	784,886	785,316	1,004	3,600	785,236	-2,21	6,761	784,095	-66,67
6005+0,000	-4,933	784,738	-66,670	-3,900	785,427	5,00	-2,400	785,502	2,00	784,321	785,024	785,454	1,133	3,600	785,382	-2,00	6,891	784,157	-66,67
6005+10,000	-5,120	784,751	-66,670	-3,900	785,565	5,00	-2,400	785,640	2,00	784,477	785,162	785,592	1,115	3,600	785,520	-2,00	6,779	784,370	-66,67
6006+0,000	-5,214	784,831	-66,670	-3,900	785,707	5,00	-2,400	785,782	2,18	784,487	785,300	785,730	1,243	3,600	785,651	-2,18	7,037	784,327	-66,67
6006+10,000	-5,469	784,811	-66,670	-3,900	785,857	5,00	-2,400	785,932	2,70	784,425	785,438	785,868	1,443	3,600	785,770	-2,70	7,549	784,097	-66,67
6006+13,255	-5,532	784,818	-66,670	-3,900	785,906	5,00	-2,400	785,981	2,87	784,572	785,482	785,912	1,340	3,600	785,808	-2,87	7,504	784,163	-66,67
6006+15,000	-5,488	784,872	-66,670	-3,900	785,931	5,00	-2,400	786,006	2,96	784,588	785,505	785,935	1,347	3,600	785,828	-2,96	7,483	784,195	-66,67
6007+0,000	-5,577	784,885	-66,670	-3,900	786,003	5,00	-2,400	786,078	3,22	784,534	785,571	786,001	1,467	3,600	785,885	-3,22	7,428	784,284	-66,67
6007+5,000	-5,761	784,830	-66,670	-3,900	786,071	5,00	-2,400	786,146	3,40	784,528	785,635	786,065	1,537	3,600	785,942	-3,40	7,559	784,252	-66,67
6007+9,611	-5,752	784,894	-66,670	-3,900	786,129	5,00	-2,400	786,204	3,40	784,438	785,692	786,122	1,684	3,600	786,000	-3,40	7,800	784,149	-66,67
6007+10,000	-5,771	784,886	-66,670	-3,900	786,134	5,00	-2,400	786,209	3,40	784,431	785,697	786,127	1,696	3,600	786,005	-3,40	7,820	784,140	-66,67
6007+15,000	-6,133	784,706	-66,670	-3,900	786,194	5,00	-2,400	786,269	3,40	784,433	785,758	786,188	1,755	3,600	786,065	-3,40	8,036	784,057	-66,67
6008+0,000	-6,107	784,796	-66,670	-3,900	786,268	5,00	-2,400	786,343	4,00	784,587	785,817	786,247	1,660	3,600	786,103	-4,00	8,022	784,095	-66,67
6008+5,000	-6,004	784,923	-66,670	-3,900	786,325	5,00	-2,400	786,400	4,00	784,701	785,874	786,304	1,603	3,600	786,160	-4,00	8,090	784,106	-66,67
6008+5,968	-6,115	784,859	-66,670	-3,900	786,336	5,00	-2,400	786,411	4,00	784,723	785,885	786,315	1,592	3,600	786,171	-4,00	8,104	784,108	-66,67
6008+7,544	-6,220	784,807	-66,670	-3,900	786,354	5,00	-2,400	786,429	4,00	784,874	785,903	786,333	1,459	3,600	786,189	-4,00	8,071	784,148	-66,67
6008+9,514	-6,409	784,746	-66,670	-3,962	786,378	5,00	-2,462	786,453	4,00	784,662	785,924	786,354	1,692	3,600	786,210	-4,00	8,052	784,183	-66,67
6008+10,000	-6,446	784,751	-66,670	-3,996	786,385	5,00	-2,496	786,460	4,00	784,611	785,930	786,360	1,749	3,600	786,216	-4,00	8,048	784,191	-66,67
6008+11,484	-6,622	784,758	-66,670	-4,149	786,407	5,00	-2,649	786,482	4,00	784,456	785,946	786,376	1,920	3,600	786,232	-4,00	8,038	784,214	-66,67
6008+15,105	-9,549	784,790	-66,670	-6,900	786,556	5,00	-5,400	786,631	4,00	784,389	785,985	786,415	2,026	3,600	786,271	-4,00	7,991	784,284	-66,67
6009+0,000	-9,699	784,741	-66,670	-6,900	786,607	5,00	-5,400	786,682	4,00	784,455	786,036	786,466	2,011	3,600	786,322	-4,00	8,081	784,275	-66,67
6009+5,000	-9,214	784,685	-66,670	-6,900	786,228	5,00	-5,400	786,303	-4,00	784,487	786,089	786,519	2,032	3,600	786,663	4,00	8,837	784,232	-66,67
6009+6,141	-9,203	784,705	-66,670	-6,900	786,240	5,00	-5,400	786,315	-4,00	784,496	786,101	786,531	2,035	3,600	786,675	4,00	8,856	784,231	-66,67
6009+10,000	-9,132	784,793	-66,670	-6,900	786,281	5,00	-5,400	786,356	-3,98	784,531	786,141	786,571	2,040	3,600	786,715	3,98	8,902	784,240	-66,67
6009+15,000	-9,150	784,768	-66,670	-6,791	786,340	5,00	-5,291	786,415	-3,94	784,581	786,194	786,624	2,043	3,600	786,766	3,94	8,916	784,281	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 6000

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6009+17,178	-8,527	784,749	-66,670	-6,062	786,392	5,00	-4,562	786,467	-3,92	784,605	786,217	786,647	2,042	3,600	786,788	3,92	8,853	784,345	-66,67
6010+0,000	-8,496	784,699	-66,670	-5,900	786,429	5,00	-4,400	786,504	-3,90	784,636	786,246	786,676	2,040	3,600	786,817	3,90	8,790	784,415	-66,67
6010+10,000	-8,654	784,702	-66,670	-5,900	786,538	5,00	-4,400	786,613	-3,82	784,745	786,351	786,781	2,036	3,600	786,919	3,82	8,676	784,592	-66,67
6011+0,000	-8,739	784,753	-66,670	-5,900	786,646	5,00	-4,400	786,721	-3,74	784,762	786,456	786,886	2,124	3,600	787,021	3,74	8,821	784,596	-66,67
6011+6,692	-8,888	784,727	-66,670	-5,900	786,719	5,00	-4,400	786,794	-3,69	784,700	786,526	786,956	2,256	3,600	787,089	3,69	8,945	784,581	-66,67
6011+10,000	-8,931	784,695	-66,670	-5,839	786,757	5,00	-4,339	786,832	-3,66	784,656	786,561	786,991	2,335	3,600	787,123	3,66	9,031	784,557	-66,67
6011+15,000	-8,787	784,670	-66,670	-5,561	786,821	5,00	-4,061	786,896	-3,62	784,647	786,613	787,043	2,396	3,600	787,174	3,62	9,026	784,610	-66,67
6012+0,000	-8,576	784,658	-66,670	-5,234	786,886	5,00	-3,734	786,961	-3,60	784,664	786,666	787,096	2,432	3,600	787,225	3,60	9,016	784,668	-66,67
6012+0,582	-8,545	784,660	-66,670	-5,194	786,894	5,00	-3,694	786,969	-3,60	784,666	786,672	787,102	2,436	3,600	787,231	3,60	9,015	784,675	-66,67
6012+5,000	-8,339	784,658	-66,670	-4,880	786,964	5,00	-3,380	787,039	-3,23	784,655	786,718	787,148	2,493	3,600	787,264	3,23	8,974	784,730	-66,67
6012+10,000	-8,150	784,623	-66,670	-4,498	787,058	5,00	-2,998	787,133	-2,27	784,593	786,771	787,201	2,608	3,600	787,282	2,27	8,878	784,797	-66,67
6012+14,472	-7,899	784,625	-66,670	-4,134	787,135	5,00	-2,634	787,210	-1,41	784,530	786,817	787,247	2,717	3,600	787,298	1,41	8,856	784,816	-66,67
6013+0,000	-7,696	784,643	-66,670	-3,827	787,222	5,00	-2,327	787,297	-0,34	784,746	786,875	787,305	2,559	3,600	787,318	0,34	8,869	784,810	-66,67
6013+9,108	-9,609	783,486	-66,670	-3,800	787,358	5,00	-2,300	787,433	1,41	784,289	786,971	787,401	3,112	3,600	787,350	-1,41	8,866	784,818	-66,67
6013+10,000	-9,680	783,452	-66,670	-3,800	787,372	5,00	-2,300	787,447	1,58	784,128	786,980	787,410	3,282	3,600	787,353	-1,58	8,861	784,822	-66,67
6013+15,000	-12,810	786,335	-66,670	-10,873	787,626	5,00	-9,373	787,701	2,54	785,322	787,033	787,463	2,141	3,600	787,371	-2,54	8,756	784,895	-66,67
6014+0,000	-11,099	786,511	-66,670	-9,295	787,713	5,00	-7,795	787,788	3,50	784,913	787,085	787,515	2,602	3,600	787,389	-3,50	8,655	784,967	-66,67
6014+4,062	-9,944	786,681	-66,670	-8,370	787,730	5,00	-6,870	787,805	3,60	784,996	787,128	787,558	2,562	3,600	787,428	-3,60	8,736	784,950	-66,67
6014+5,000	-9,738	786,704	-66,670	-8,193	787,734	5,00	-6,693	787,809	3,60	785,105	787,138	787,568	2,463	3,600	787,438	-3,60	8,718	784,972	-66,67
6014+10,000	-8,810	786,842	-66,670	-7,445	787,751	5,00	-5,945	787,826	3,47	785,536	787,190	787,620	2,084	3,600	787,495	-3,47	8,472	785,195	-66,67
6014+15,000	-8,231	786,967	-66,670	-7,020	787,774	5,00	-5,520	787,849	3,20	785,572	787,242	787,672	2,100	3,600	787,557	-3,20	8,661	785,135	-66,67
6014+19,016	-8,140	786,979	-66,670	-6,907	787,801	5,00	-5,407	787,876	2,98	785,575	787,285	787,715	2,140	3,600	787,607	-2,98	8,775	785,113	-66,67
6015+0,000	-8,143	786,982	-66,670	-6,904	787,808	5,00	-5,404	787,883	2,93	785,572	787,295	787,725	2,153	3,600	787,619	-2,93	8,799	785,109	-66,67
6015+10,000	-8,124	787,068	-66,670	-6,900	787,884	5,00	-5,400	787,959	2,39	785,688	787,400	787,830	2,142	3,600	787,744	-2,39	8,686	785,317	-66,67
6016+0,000	-8,047	787,164	-66,670	-6,900	787,929	5,00	-5,400	788,004	1,29	786,048	787,505	787,935	1,887	3,600	787,863	-2,00	8,330	785,679	-66,67
6016+10,000	-7,905	787,230	-66,670	-6,900	787,900	5,00	-5,400	787,975	-1,24	785,901	787,612	788,042	2,141	3,600	787,970	-2,00	8,306	785,803	-66,67
6017+0,000	-7,843	787,350	-66,670	-6,900	787,979	5,00	-5,400	788,054	-2,00	785,942	787,732	788,162	2,220	3,600	788,090	-2,00	8,209	785,987	-66,67
6017+10,000	-7,793	787,513	-66,670	-6,900	788,108	5,00	-5,400	788,183	-2,00	786,012	787,861	788,291	2,279	3,600	788,219	-2,00	8,058	786,217	-66,67
6018+0,000	-7,282	787,976	-66,670	-6,900	788,231	5,00	-5,400	788,306	-2,00	786,185	787,984	788,414	2,229	3,600	788,342	-2,00	8,008	786,373	-66,67
6018+10,000	-7,490	787,951	-66,670	-6,900	788,344	5,00	-5,400	788,419	-2,00	786,163	788,097	788,527	2,364	3,600	788,455	-2,00	7,799	786,626	-66,67
6019+0,000	-6,923	788,434	-66,670	-6,900	788,449	5,00	-5,400	788,524	-2,00	786,977	788,202	788,632	1,655	3,600	788,560	-2,00	7,497	786,932	-66,67
6019+10,000	-7,278	788,623	100,000	-6,900	788,245	25,00	-5,400	788,620	-2,00	787,801	788,298	788,728	0,927	3,600	788,656	-2,00	6,852	787,458	-66,67
6020+0,000	-7,323	788,755	100,000	-6,900	788,332	25,00	-5,400	788,707	-2,00	787,378	788,385	788,815	1,437	3,600	788,743	-2,00	7,278	787,261	-66,67
6020+10,000	-7,375	788,885	100,000	-6,900	788,410	25,00	-5,400	788,785	-2,00	788,764	788,463	788,893	0,129	3,600	788,821	-2,00	5,720	788,378	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 6000

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6021+0,000	-7,384	788,465	-66,670	-6,900	788,787	5,00	-5,400	788,862	-2,00	788,920	788,540	788,970	0,050	3,600	788,898	-2,00	5,168	788,823	-66,67
6021+10,000	-7,121	788,716	-66,670	-6,900	788,864	5,00	-5,400	788,939	-2,00	788,725	788,617	789,047	0,322	3,600	788,975	-2,00	5,472	788,972	100,00
6022+0,000	-7,285	789,026	100,000	-6,900	788,640	25,00	-5,400	789,015	-2,00	789,008	788,693	789,123	0,115	3,600	789,051	-2,00	5,503	789,080	100,00
6022+10,000	-7,039	788,924	-66,670	-6,900	789,017	5,00	-5,400	789,092	-2,00	788,353	788,770	789,200	0,847	3,600	789,128	-2,00	5,422	788,883	-66,67
6023+0,000	-7,860	788,454	-66,670	-6,900	789,094	5,00	-5,400	789,169	-2,00	787,789	788,847	789,277	1,488	3,600	789,205	-2,00	5,908	788,636	-66,67
6023+10,000	-7,809	788,565	-66,670	-6,900	789,171	5,00	-5,400	789,246	-2,00	788,074	788,924	789,354	1,280	3,600	789,282	-2,00	5,694	788,856	-66,67
6024+0,000	-7,476	788,864	-66,670	-6,900	789,248	5,00	-5,400	789,323	-2,00	788,237	789,001	789,431	1,194	3,600	789,359	-2,00	5,784	788,873	-66,67
6024+10,000	-7,683	788,815	-66,670	-6,900	789,337	5,00	-5,400	789,412	-2,00	788,401	789,090	789,520	1,119	3,600	789,448	-2,00	5,804	788,949	-66,67
6025+0,000	-7,538	789,015	-66,670	-6,900	789,440	5,00	-5,400	789,515	-2,00	788,516	789,193	789,623	1,107	3,600	789,551	-2,00	5,754	789,085	-66,67
6025+10,000	-7,630	789,071	-66,670	-6,900	789,557	5,00	-5,400	789,632	-2,00	788,692	789,310	789,740	1,048	3,600	789,668	-2,00	5,528	789,353	-66,67
6026+0,000	-7,656	789,185	-66,670	-6,900	789,688	5,00	-5,400	789,763	-2,00	788,927	789,441	789,871	0,944	3,600	789,799	-2,00	5,396	789,572	-66,67
6026+10,000	-7,598	789,368	-66,670	-6,900	789,834	5,00	-5,400	789,909	-2,00	789,165	789,587	790,017	0,852	3,600	789,945	-2,00	5,242	789,820	-66,67
6027+0,000	-7,222	789,777	-66,670	-6,900	789,992	5,00	-5,400	790,067	-2,00	790,292	789,745	790,175	-0,117	3,600	790,103	-2,00	5,643	790,271	100,00
6027+10,000	-7,216	789,943	-66,670	-6,900	790,153	5,00	-5,400	790,228	-2,00	790,564	789,906	790,336	-0,228	3,600	790,264	-2,00	5,678	790,467	100,00
6028+0,000	-7,508	790,622	100,000	-6,900	790,014	25,00	-5,400	790,389	-2,00	790,735	790,067	790,497	-0,238	3,600	790,425	-2,00	5,687	790,637	100,00
6028+10,000	-7,652	790,927	100,000	-6,900	790,176	25,00	-5,400	790,551	-2,00	790,869	790,229	790,659	-0,210	3,600	790,587	-2,00	5,622	790,733	100,00
6029+0,000	-7,745	791,181	100,000	-6,900	790,337	25,00	-5,400	790,712	-2,00	790,853	790,390	790,820	-0,033	3,600	790,748	-2,00	5,524	790,797	100,00
6029+10,000	-7,662	791,260	100,000	-6,900	790,498	25,00	-5,400	790,873	-2,00	790,907	790,551	790,981	0,074	3,600	790,909	-2,00	5,467	790,901	100,00
6030+0,000	-7,369	791,128	100,000	-6,900	790,659	25,00	-5,400	791,034	-2,00	791,069	790,712	791,142	0,073	3,600	791,070	-2,00	5,473	791,067	100,00
6030+10,000	-7,499	791,420	100,000	-6,900	790,820	25,00	-5,400	791,195	-2,00	791,285	790,873	791,303	0,018	3,600	791,231	-2,00	5,471	791,227	100,00
6031+0,000	-7,574	791,656	100,000	-6,900	790,981	25,00	-5,400	791,356	-2,00	791,548	791,034	791,464	-0,084	3,600	791,392	-2,00	5,547	791,464	100,00
6031+10,000	-7,108	791,304	-66,670	-6,900	791,442	5,00	-5,400	791,517	-2,00	791,641	791,195	791,625	-0,016	3,600	791,553	-2,00	5,570	791,649	100,00
6032+0,000	-7,166	791,426	-66,670	-6,900	791,603	5,00	-5,400	791,678	-2,00	791,659	791,356	791,786	0,127	3,600	791,714	-2,00	5,529	791,768	100,00
6032+10,000	-7,224	791,548	-66,670	-6,900	791,765	5,00	-5,400	791,840	-2,00	791,677	791,518	791,948	0,271	3,600	791,876	-2,00	5,200	791,779	-66,67
6033+0,000	-6,943	791,897	-66,670	-6,900	791,926	5,00	-5,400	792,001	-2,00	791,928	791,679	792,109	0,181	3,600	792,037	-2,00	5,462	792,023	100,00
6033+10,000	-7,286	792,173	100,000	-6,900	791,787	25,00	-5,400	792,162	-2,00	792,247	791,840	792,270	0,023	3,600	792,198	-2,00	5,505	792,228	100,00
6034+0,000	-7,488	792,536	100,000	-6,900	791,948	25,00	-5,400	792,323	-2,00	792,525	792,001	792,431	-0,094	3,600	792,359	-2,00	5,155	792,292	-66,67
6034+10,000	-7,561	792,770	100,000	-6,900	792,109	25,00	-5,400	792,484	-2,00	792,696	792,162	792,592	-0,104	3,600	792,520	-2,00	5,139	792,464	-66,67
6035+0,000	-7,252	792,622	100,000	-6,900	792,270	25,00	-5,400	792,645	-2,00	793,050	792,323	792,753	-0,297	3,600	792,681	-2,00	5,706	792,912	100,00
6035+10,000	-6,969	792,686	-66,670	-6,900	792,731	5,00	-5,400	792,806	-2,00	793,524	792,484	792,914	-0,610	3,600	792,842	-2,00	5,991	793,358	100,00
6036+0,000	-7,321	793,013	100,000	-6,900	792,593	25,00	-5,400	792,968	-2,00	793,871	792,646	793,076	-0,795	3,600	793,004	-2,00	5,986	793,515	100,00
6036+10,000	-7,773	793,626	100,000	-6,900	792,754	25,00	-5,400	793,129	-2,00	793,845	792,807	793,237	-0,608	3,600	793,165	-2,00	5,749	793,439	100,00
6037+0,000	-7,592	793,607	100,000	-6,900	792,915	25,00	-5,400	793,290	-2,00	793,904	792,968	793,398	-0,506	3,600	793,326	-2,00	5,864	793,715	100,00
6037+10,000	-7,402	793,578	100,000	-6,900	793,076	25,00	-5,400	793,451	-2,00	793,987	793,129	793,559	-0,428	3,600	793,487	-2,00	5,853	793,865	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 6000

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6038+0,000	-7,576	793,913	100,000	-6,900	793,237	25,00	-5,400	793,612	-2,00	794,029	793,290	793,720	-0,309	3,600	793,648	-2,00	5,804	793,977	100,00
6038+10,000	-7,553	794,051	100,000	-6,900	793,398	25,00	-5,400	793,773	-2,00	794,114	793,451	793,881	-0,233	3,600	793,809	-2,00	5,715	794,049	100,00
6039+0,000	-7,440	794,100	100,000	-6,900	793,559	25,00	-5,400	793,934	-2,00	794,437	793,612	794,042	-0,395	3,600	793,970	-2,00	5,882	794,377	100,00
6039+10,000	-7,371	794,190	100,000	-6,900	793,719	25,00	-5,400	794,094	-2,00	794,533	793,772	794,202	-0,331	3,600	794,130	-2,00	5,803	794,459	100,00
6040+0,000	-7,381	794,344	100,000	-6,900	793,863	25,00	-5,400	794,238	-2,00	794,648	793,916	794,346	-0,302	3,600	794,274	-2,00	5,810	794,609	100,00
6040+10,000	-7,393	794,479	100,000	-6,900	793,987	25,00	-5,400	794,362	-2,00	794,804	794,040	794,470	-0,334	3,600	794,398	-2,00	5,939	794,862	100,00
6041+0,000	-7,387	794,577	100,000	-6,900	794,090	25,00	-5,400	794,465	-2,00	794,939	794,143	794,573	-0,366	3,600	794,501	-2,00	5,969	794,996	100,00
6041+10,000	-7,395	794,669	100,000	-6,900	794,174	25,00	-5,400	794,549	-2,00	795,083	794,227	794,657	-0,426	3,600	794,585	-2,00	6,006	795,116	100,00
6042+0,000	-7,476	794,813	100,000	-6,900	794,237	25,00	-5,400	794,612	-2,00	795,160	794,290	794,720	-0,440	3,600	794,648	-2,00	5,987	795,161	100,00
6042+10,000	-7,515	794,896	100,000	-6,900	794,281	25,00	-5,400	794,656	-2,00	795,109	794,334	794,764	-0,345	3,600	794,692	-2,00	5,937	795,154	100,00
6043+0,000	-7,311	794,716	100,000	-6,900	794,304	25,00	-5,400	794,679	-2,00	794,903	794,357	794,787	-0,116	3,600	794,715	-2,00	5,812	795,053	100,00
6043+10,000	-7,460	794,868	100,000	-6,900	794,308	25,00	-5,400	794,683	-2,00	795,013	794,361	794,791	-0,222	3,600	794,719	-2,00	5,753	794,997	100,00
6044+0,000	-7,380	794,771	100,000	-6,900	794,291	25,00	-5,400	794,666	-2,00	795,049	794,344	794,774	-0,275	3,600	794,702	-2,00	5,880	795,107	100,00
6044+10,000	-7,358	794,713	100,000	-6,900	794,254	25,00	-5,400	794,629	-2,00	794,989	794,307	794,737	-0,252	3,600	794,665	-2,00	5,973	795,163	100,00
6045+0,000	-7,334	794,632	100,000	-6,900	794,198	25,00	-5,400	794,573	-2,00	794,701	794,251	794,681	-0,020	3,600	794,609	-2,00	5,864	794,998	100,00
6045+10,000	-6,965	794,378	-66,670	-6,900	794,421	5,00	-5,400	794,496	-2,00	794,244	794,174	794,604	0,360	3,600	794,532	-2,00	5,604	794,661	100,00
6046+0,000	-7,538	794,662	100,000	-6,900	794,024	25,00	-5,400	794,399	-2,00	794,768	794,077	794,507	-0,261	3,600	794,435	-2,00	5,807	794,768	100,00
6046+10,000	-7,568	794,575	100,000	-6,900	793,907	25,00	-5,400	794,282	-2,00	795,002	793,960	794,390	-0,612	3,600	794,318	-2,00	6,162	795,005	100,00
6047+0,000	-7,617	794,488	100,000	-6,900	793,771	25,00	-5,400	794,146	-2,00	794,956	793,824	794,254	-0,702	3,600	794,182	-2,00	6,366	795,073	100,00
6047+10,000	-7,787	794,500	100,000	-6,900	793,614	25,00	-5,400	793,989	-2,00	794,946	793,667	794,097	-0,849	3,600	794,025	-2,00	6,572	795,122	100,00
6048+0,000	-8,087	794,624	100,000	-6,900	793,437	25,00	-5,400	793,812	-2,00	794,967	793,490	793,920	-1,047	3,600	793,848	-2,00	6,738	795,110	100,00
6048+10,000	-8,109	794,449	100,000	-6,900	793,240	25,00	-5,400	793,615	-2,00	795,015	793,293	793,723	-1,292	3,600	793,651	-2,00	6,968	795,143	100,00
6049+0,000	-8,150	794,273	100,000	-6,900	793,023	25,00	-5,400	793,398	-2,00	794,879	793,076	793,506	-1,373	3,600	793,434	-2,00	7,064	795,022	100,00
6049+10,000	-8,116	794,002	100,000	-6,900	792,786	25,00	-5,400	793,161	-2,00	794,607	792,839	793,269	-1,338	3,600	793,197	-2,00	7,139	794,861	100,00
6050+0,000	-8,214	793,843	100,000	-6,900	792,529	25,00	-5,400	792,904	-2,00	794,491	792,582	793,012	-1,479	3,600	792,940	-2,00	7,359	794,823	100,00
6050+10,000	-8,396	793,748	100,000	-6,900	792,251	25,00	-5,400	792,626	-2,00	794,399	792,304	792,734	-1,665	3,600	792,662	-2,00	7,503	794,691	100,00
6051+0,000	-8,699	793,753	100,000	-6,900	791,954	25,00	-5,400	792,329	-2,00	794,270	792,007	792,437	-1,833	3,600	792,365	-2,00	7,668	794,558	100,00
6051+10,000	-8,383	793,120	100,000	-6,900	791,637	25,00	-5,400	792,012	-2,00	793,746	791,690	792,120	-1,626	3,600	792,048	-2,00	7,636	794,209	100,00
6052+0,000	-8,648	793,048	100,000	-6,900	791,300	25,00	-5,400	791,675	-2,00	793,719	791,353	791,783	-1,936	3,600	791,711	-2,00	7,994	794,230	100,00
6052+10,000	-8,827	792,870	100,000	-6,900	790,942	25,00	-5,400	791,317	-2,00	793,491	790,995	791,425	-2,066	3,600	791,353	-2,00	8,158	794,036	100,00
6053+0,000	-8,929	792,594	100,000	-6,900	790,565	25,00	-5,400	790,940	-2,00	793,174	790,618	791,048	-2,126	3,600	790,976	-2,00	8,184	793,685	100,00
6053+10,000	-9,032	792,301	100,000	-6,900	790,169	25,00	-5,400	790,544	-2,00	792,842	790,222	790,652	-2,190	3,600	790,580	-2,00	8,216	793,321	100,00
6053+14,625	-9,143	792,227	100,000	-6,900	789,984	25,00	-5,400	790,359	-2,00	792,714	790,037	790,467	-2,247	3,600	790,395	-2,00	8,321	793,241	100,00
6053+15,000	-9,152	792,221	100,000	-6,900	789,969	25,00	-5,400	790,344	-2,00	792,704	790,022	790,452	-2,252	3,600	790,380	-2,00	8,326	793,231	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 6000

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6054+0,000	-9,273	792,142	100,000	-6,900	789,769	25,00	-5,400	790,144	-2,00	792,616	789,822	790,252	-2,364	3,600	790,180	-2,00	8,401	793,106	100,00
6054+5,000	-9,386	792,055	100,000	-6,900	789,569	25,00	-5,400	789,944	-2,00	792,535	789,622	790,052	-2,483	3,600	789,980	-2,00	8,478	792,983	100,00
6054+10,000	-9,474	791,943	100,000	-6,900	789,369	25,00	-5,400	789,744	-2,00	792,434	789,422	789,852	-2,582	3,600	789,780	-2,00	8,533	792,838	100,00
6054+15,000	-9,546	791,815	100,000	-6,900	789,169	25,00	-5,400	789,544	-2,00	792,322	789,222	789,652	-2,670	3,600	789,580	-2,00	8,535	792,640	100,00
6055+0,000	-9,604	791,673	100,000	-6,900	788,969	25,00	-5,400	789,344	-2,00	792,109	789,022	789,452	-2,657	3,600	789,380	-2,00	8,601	792,506	100,00
6055+5,000	-9,749	791,618	100,000	-6,900	788,769	25,00	-5,400	789,144	-2,00	792,114	788,822	789,252	-2,862	3,600	789,180	-2,00	8,799	792,504	100,00
6055+10,000	-9,897	791,566	100,000	-6,900	788,569	25,00	-5,400	788,944	-2,00	792,066	788,622	789,052	-3,014	3,600	788,980	-2,00	9,065	792,570	100,00
6055+15,000	-10,044	791,513	100,000	-6,900	788,369	25,00	-5,400	788,744	-2,00	792,019	788,422	788,852	-3,167	3,600	788,780	-2,00	9,097	792,402	100,00
6056+0,000	-10,183	791,452	100,000	-6,900	788,169	25,00	-5,400	788,544	-2,00	791,973	788,222	788,652	-3,321	3,600	788,580	-2,00	9,155	792,260	100,00
6056+5,000	-10,323	791,392	100,000	-6,900	787,969	25,00	-5,400	788,344	-2,00	791,905	788,022	788,452	-3,453	3,600	788,380	-2,00	9,268	792,173	100,00
6056+10,000	-9,425	790,294	100,000	-6,900	787,769	25,00	-5,400	788,144	-2,00	791,802	787,822	788,252	-3,550	3,600	788,180	-2,00	9,722	792,427	100,00
6056+12,090	-9,309	790,094	100,000	-6,900	787,685	25,00	-5,400	788,060	-2,00	791,652	787,738	788,168	-3,484	3,600	788,096	-2,00	9,906	792,527	100,00
6056+15,000	-9,352	790,021	100,000	-6,900	787,569	25,00	-5,400	787,944	-2,00	791,444	787,622	788,052	-3,392	3,600	787,980	-2,00	9,898	792,403	100,00
6057+0,000	-9,870	790,339	100,000	-6,900	787,369	25,00	-5,400	787,744	-2,00	791,114	787,422	787,852	-3,262	3,600	787,780	-2,00	9,884	792,189	100,00
6057+5,000	-10,518	790,787	100,000	-6,900	787,169	25,00	-5,400	787,544	-2,00	791,459	787,222	787,652	-3,807	3,600	787,580	-2,00	10,010	792,115	100,00
6057+10,000	-11,012	791,081	100,000	-6,900	786,969	25,00	-5,400	787,344	-2,00	791,690	787,022	787,452	-4,238	3,600	787,380	-2,00	10,168	792,073	100,00
6057+15,000	-11,221	791,094	100,000	-6,900	786,773	25,00	-5,400	787,148	-2,00	791,693	786,826	787,256	-4,437	3,600	787,184	-2,00	10,545	792,254	100,00
6058+0,000	-11,470	791,176	100,000	-6,900	786,606	25,00	-5,400	786,981	-1,72	791,703	786,644	787,074	-4,629	3,600	787,002	-2,00	10,736	792,263	100,00
6058+5,000	-11,655	791,264	100,000	-6,900	786,510	25,00	-5,400	786,885	-0,39	791,799	786,476	786,906	-4,893	3,600	786,834	-2,00	10,931	792,289	100,00
6058+10,000	-11,675	791,203	100,000	-6,900	786,428	25,00	-5,400	786,803	0,95	791,882	786,322	786,752	-5,130	3,600	786,680	-2,00	11,111	792,316	100,00
6058+15,000	-11,655	791,089	100,000	-6,900	786,334	25,00	-5,400	786,709	1,79	791,761	786,182	786,612	-5,149	3,600	786,548	-1,79	11,144	792,217	100,00
6059+0,000	-11,759	791,014	100,000	-6,900	786,155	25,00	-5,400	786,530	0,79	791,644	786,057	786,487	-5,157	3,600	786,459	-0,79	11,024	792,008	100,00
6059+5,000	-11,855	790,945	100,000	-6,900	785,990	25,00	-5,400	786,365	-0,21	791,484	785,946	786,376	-5,108	3,600	786,384	0,21	11,153	792,062	100,00
6059+9,554	-12,135	790,885	100,000	-7,101	785,850	25,00	-5,601	786,225	-1,12	791,526	785,858	786,288	-5,238	3,600	786,328	1,12	11,302	792,155	100,00
6059+10,000	-12,184	790,879	100,000	-7,142	785,837	25,00	-5,642	786,212	-1,21	791,513	785,850	786,280	-5,233	3,600	786,323	1,21	11,341	792,189	100,00
6059+15,000	-12,911	790,797	100,000	-7,798	785,684	25,00	-6,298	786,059	-2,21	791,352	785,768	786,198	-5,154	3,600	786,277	2,21	11,309	792,111	100,00
6060+0,000	-13,959	790,696	100,000	-8,813	785,550	25,00	-7,313	785,925	-2,80	791,285	785,700	786,130	-5,155	3,600	786,230	2,80	11,366	792,121	100,00
6060+5,000	-15,427	790,687	100,000	-10,197	785,457	25,00	-8,697	785,832	-2,80	791,219	785,646	786,076	-5,143	3,600	786,177	2,80	11,419	792,121	100,00
6060+10,000	-15,871	790,657	100,000	-10,620	785,406	25,00	-9,120	785,781	-2,80	791,220	785,606	786,036	-5,184	3,600	786,137	2,80	11,403	792,065	100,00
6060+10,969	-15,859	790,639	100,000	-10,620	785,400	25,00	-9,120	785,775	-2,80	791,267	785,600	786,030	-5,237	3,600	786,131	2,80	11,387	792,043	100,00
6060+15,000	-15,731	790,492	100,000	-10,620	785,381	25,00	-9,120	785,756	-2,80	791,461	785,581	786,011	-5,450	3,600	786,112	2,80	11,537	792,174	100,00
6061+0,000	-15,658	790,408	100,000	-10,620	785,370	25,00	-9,120	785,745	-2,80	791,337	785,570	786,000	-5,337	3,600	786,101	2,80	11,539	792,165	100,00
6061+5,000	-15,387	790,161	100,000	-10,620	785,394	25,00	-9,120	785,769	-2,60	791,211	785,576	786,006	-5,205	3,600	786,099	2,60	11,523	792,147	100,00
6061+10,000	-15,020	789,912	100,000	-10,620	785,512	25,00	-9,120	785,887	-1,60	791,074	785,602	786,032	-5,042	3,600	786,090	1,60	11,546	792,161	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 6000

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
6061+12,385	-14,882	789,837	100,000	-10,620	785,576	25,00	-9,120	785,951	-1,12	791,006	785,623	786,053	-4,953	3,600	786,093	1,12	11,571	792,189	100,00
6062+0,000	-9,521	789,941	100,000	-5,371	785,790	25,00	-3,871	786,165	0,40	790,617	785,720	786,150	-4,467	3,600	786,135	-0,40	11,051	791,711	100,00
6062+10,000	-8,772	790,885	100,000	-3,900	786,013	25,00	-2,400	786,388	1,46	790,893	785,923	786,353	-4,540	3,600	786,281	-2,00	10,883	791,689	100,00
6063+0,000	-7,575	789,912	100,000	-3,900	786,238	25,00	-2,400	786,613	-1,20	790,625	786,212	786,642	-3,983	3,600	786,570	-2,00	10,581	791,676	100,00
6063+10,000	-7,151	789,845	100,000	-3,900	786,593	25,00	-2,400	786,968	-2,00	790,779	786,586	787,016	-3,763	3,600	786,944	-2,00	10,329	791,799	100,00
6064+0,000	-6,388	789,542	100,000	-3,900	787,054	25,00	-2,400	787,429	-2,00	790,638	787,047	787,477	-3,161	3,600	787,405	-2,00	8,820	790,750	100,00
6064+10,000	-6,302	790,002	100,000	-3,900	787,600	25,00	-2,400	787,975	-2,00	790,476	787,593	788,023	-2,453	3,600	787,951	-2,00	8,727	791,202	100,00
6065+0,000	-5,796	790,095	100,000	-3,900	788,199	25,00	-2,400	788,574	-2,00	790,362	788,192	788,622	-1,740	3,600	788,550	-2,00	7,708	790,783	100,00
6065+10,000	-5,341	790,240	100,000	-3,900	788,799	25,00	-2,400	789,174	-2,00	790,547	788,792	789,222	-1,325	3,600	789,150	-2,00	7,221	790,896	100,00
6066+0,000	-5,216	790,715	100,000	-3,900	789,399	25,00	-2,400	789,774	-2,00	790,820	789,392	789,822	-0,998	3,600	789,750	-2,00	6,863	791,138	100,00
6066+10,000	-5,094	791,193	100,000	-3,900	789,999	25,00	-2,400	790,374	-2,00	791,037	789,992	790,422	-0,615	3,600	790,350	-2,00	6,457	791,332	100,00
6067+0,000	-4,796	791,495	100,000	-3,900	790,599	25,00	-2,400	790,974	-2,00	791,452	790,592	791,022	-0,430	3,600	790,950	-2,00	5,942	791,417	100,00
6067+10,000	-4,658	791,957	100,000	-3,900	791,199	25,00	-2,400	791,574	-2,00	791,920	791,192	791,622	-0,298	3,600	791,550	-2,00	5,799	791,874	100,00
6068+0,000	-4,105	791,953	-66,670	-3,900	792,090	5,00	-2,400	792,165	-2,00	791,921	791,783	792,213	0,292	3,600	792,141	-2,00	5,383	791,922	-66,67
6068+10,000	-4,436	792,218	-66,670	-3,900	792,575	5,00	-2,400	792,650	-2,00	792,217	792,268	792,698	0,481	3,600	792,626	-2,00	5,671	792,216	-66,67
6069+0,000	-4,501	792,529	-66,670	-3,900	792,929	5,00	-2,400	793,004	-2,00	792,521	792,622	793,052	0,531	3,600	792,980	-2,00	5,762	792,509	-66,67
6069+10,000	-4,442	792,791	-66,670	-3,900	793,152	5,00	-2,400	793,227	-2,00	792,828	792,845	793,275	0,447	3,600	793,203	-2,00	5,703	792,771	-66,67
6070+0,000	-4,251	793,038	-66,670	-3,900	793,272	5,00	-2,400	793,347	-1,23	792,879	792,947	793,377	0,498	3,600	793,305	-2,00	5,418	793,063	-66,67
6070+10,000	-4,052	793,337	-66,670	-3,900	793,438	5,00	-2,400	793,513	1,43	793,216	793,048	793,478	0,262	3,600	793,406	-2,00	5,282	793,255	-66,67
6071+0,000	-4,212	793,596	100,000	-3,900	793,285	25,00	-2,400	793,660	2,00	793,410	793,182	793,612	0,202	3,600	793,540	-2,00	5,235	793,420	-66,67
6071+6,122	-4,212	793,694	100,000	-3,900	793,382	25,00	-2,400	793,757	2,00	793,529	793,279	793,709	0,180	3,600	793,637	-2,00	5,235	793,517	-66,67
6071+10,000	-4,188	793,833	100,000	-3,804	793,448	25,00	-2,304	793,823	2,00	793,615	793,347	793,777	0,162	3,600	793,705	-2,00	7,191	792,281	-66,67
6071+15,000	-3,755	793,942	100,000	-3,346	793,534	25,00	-1,846	793,909	2,00	793,754	793,442	793,872	0,118	3,600	793,800	-2,00	7,041	792,476	-66,67
6072+0,000	-3,365	794,052	100,000	-2,940	793,627	25,00	-1,440	794,002	2,00	793,891	793,543	793,973	0,082	3,600	793,901	-2,00	6,927	792,653	-66,67
6072+5,000	-3,026	794,162	100,000	-2,585	793,720	25,00	-1,085	794,095	2,00	794,024	793,644	794,074	0,050	3,600	794,002	-2,00	6,836	792,814	-66,67
6072+10,000	-2,732	794,267	100,000	-2,280	793,815	25,00	-0,780	794,190	2,00	794,152	793,745	794,175	0,023	3,600	794,103	-2,00	6,749	792,973	-66,67
6072+12,013	-2,623	794,306	100,000	-2,171	793,854	25,00	-0,671	794,229	2,00	794,197	793,785	794,215	0,018	3,600	794,143	-2,00	6,702	793,045	-66,67
6072+15,000	-2,477	794,363	100,000	-2,025	793,911	25,00	-0,525	794,286	2,00	794,263	793,845	794,275	0,012	3,600	794,203	-2,00	6,639	793,147	-66,67
6073+0,000	-2,274	794,461	100,000	-1,821	794,008	25,00	-0,321	794,383	2,00	794,370	793,946	794,376	0,006	3,600	794,304	-2,00	6,467	793,363	-66,67
6073+5,000	-2,127	794,566	100,000	-1,667	794,106	25,00	-0,167	794,481	2,00	794,474	794,047	794,477	0,003	3,600	794,405	-2,00	6,305	793,572	-66,67
6073+10,000	-2,031	794,673	100,000	-1,562	794,204	25,00	-0,062	794,579	2,00	794,584	794,148	794,578	-0,006	3,600	794,506	-2,00	6,187	793,751	-66,67
6073+15,000										794,700	794,249	794,679	-0,021	3,600	794,607	-2,00	6,139	793,885	-66,67
6073+17,904										794,767	794,308	794,738	-0,029	3,600	794,666	-2,00	6,139	793,943	-66,67
6074+0,000										794,814	794,350	794,780	-0,034	3,600	794,708	-2,00	6,117	794,000	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 6000																				
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO						
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET			
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	
6074+10,000										795,033	794,552	794,982	-0,051	3,600	794,910	-2,00	6,107	794,209	-66,67	
6075+0,000										795,235	794,754	795,184	-0,051	3,600	795,112	-2,00	6,102	794,414	-66,67	
6075+10,000										795,438	794,955	795,385	-0,053	3,600	795,313	-2,00	6,187	794,559	-66,67	
6076+0,000										795,634	795,157	795,587	-0,047	3,600	795,515	-2,00	6,327	794,667	-66,67	
6076+10,000										795,827	795,359	795,789	-0,038	3,600	795,717	-2,00	6,332	794,865	-66,67	
6077+0,000										796,016	795,561	795,991	-0,025	3,600	795,919	-2,00	6,382	795,034	-66,67	
6077+10,000										796,208	795,763	796,193	-0,015	3,600	796,121	-2,00	6,423	795,209	-66,67	
6078+0,000										796,418	795,964	796,394	-0,024	3,600	796,322	-2,00	6,403	795,424	-66,67	
6078+10,000										796,623	796,158	796,588	-0,035	3,600	796,516	-2,00	6,411	795,612	-66,67	
6079+0,000										796,786	796,340	796,770	-0,016	3,186	796,706	-2,00	5,809	795,927	-66,67	
6079+10,000										796,937	796,511	796,941	0,004	2,672	796,888	-2,00	5,086	796,248	-66,67	
6080+0,000										797,107	796,671	797,101	-0,006	2,158	797,058	-2,00	4,473	796,615	-66,67	
6080+10,000										797,278	796,820	797,250	-0,028	1,643	797,217	-2,00	4,225	796,927	-66,67	
6081+0,000										797,397	796,958	797,388	-0,009	1,129	797,365	-2,00	4,197	797,062	-66,67	
6081+10,000										797,505	797,084	797,514	0,009	0,615	797,502	-2,00	4,345	797,069	-66,67	

1.3.22 Retorno Ferroeste 2100

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 2100																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2100+0,000	-8,028	784,581	-66,67	-5,414	786,323	5,00	-4,639	785,983	2,00	-3,914	785,968	2,00	784,599	785,890	786,320	1,721	3,600	785,818	-2,000	4,325	785,803	-2,00	7,321	784,692	-66,67
2100+3,672	-6,838	784,787	-66,67	-4,500	786,346	5,00	-3,725	786,005	2,00	-3,000	785,991	2,00	784,723	785,931	786,361	1,638	11,277	785,705	-2,000	12,002	785,691	-2,00	14,700	784,778	-66,67
2100+5,000	-6,755	784,857	-66,67	-4,500	786,360	5,00	-3,725	786,020	2,00	-3,000	786,005	2,00	784,767	785,945	786,375	1,608	11,193	785,722	-2,000	11,918	785,707	-2,00	14,634	784,783	-66,67
2100+10,000	-6,729	784,931	-66,67	-4,501	786,416	5,00	-3,726	786,075	2,00	-3,001	786,061	2,00	784,822	786,001	786,431	1,609	10,479	785,791	-2,000	11,204	785,777	-2,00	13,997	784,801	-66,67
2100+11,154	-6,729	784,943	-66,67	-4,501	786,429	5,00	-3,726	786,088	2,00	-3,001	786,074	2,00	784,816	786,014	786,444	1,628	10,479	785,804	-2,000	11,204	785,790	-2,00	13,997	784,814	-66,67
2100+15,000	-5,908	785,534	-66,67	-4,501	786,472	5,00	-3,727	786,131	2,00	-3,001	786,117	2,00	784,793	786,056	786,486	1,693	8,176	785,893	-2,000	8,901	785,878	-2,00	11,842	784,804	-66,67
2100+18,635	-5,765	785,669	-66,67	-4,502	786,512	5,00	-3,727	786,171	2,00	-3,002	786,157	2,00	784,760	786,097	786,527	1,767	5,567	785,986	-2,000	6,292	785,971	-2,00	9,403	784,783	-66,67
2101+0,000	-5,841	785,634	-66,67	-4,502	786,527	5,00	-3,727	786,187	2,00	-3,002	786,172	2,00	784,857	786,112	786,542	1,685	4,204	786,028	-2,000	4,929	786,013	-2,00	8,165	784,742	-66,67
2101+10,000	-5,496	785,975	-66,67	-4,501	786,638	5,00	-3,726	786,298	2,00	-3,001	786,283	2,00	785,029	786,223	786,653	1,624	3,006	786,163	-2,000	3,731	786,148	-2,00	7,239	784,696	-66,67
2101+19,669	-5,663	785,970	-66,67	-4,500	786,746	5,00	-3,725	786,405	2,00	-3,000	786,391	2,00	784,702	786,331	786,761	2,059	3,004	786,270	-2,000	3,729	786,256	-2,00	7,394	784,699	-66,67
2102+0,000	-5,646	785,985	-66,67	-4,500	786,749	5,00	-3,725	786,409	2,00	-3,000	786,394	2,00	784,713	786,334	786,764	2,051	3,004	786,274	-2,000	3,729	786,260	-2,00	7,404	784,696	-66,67
2102+5,000	-5,619	786,059	-66,67	-4,500	786,805	5,00	-3,725	786,464	2,00	-3,000	786,450	2,00	784,825	786,390	786,820	1,995	3,004	786,330	-2,000	3,729	786,315	-2,00	7,466	784,710	-66,67
2102+10,000	-5,877	785,942	-66,67	-4,500	786,860	5,00	-3,725	786,520	2,00	-3,000	786,505	2,00	784,839	786,445	786,875	2,036	3,003	786,385	-2,000	3,728	786,371	-2,00	7,485	784,752	-66,67
2102+15,000	-5,820	786,036	-66,67	-4,500	786,916	5,00	-3,725	786,575	2,00	-3,000	786,561	2,00	784,846	786,501	786,931	2,085	3,003	786,441	-2,000	3,728	786,426	-2,00	7,600	784,731	-66,67
2103+0,000	-5,833	786,083	-66,67	-4,500	786,971	5,00	-3,725	786,631	2,00	-3,000	786,616	2,00	784,838	786,556	786,986	2,148	3,002	786,496	-2,000	3,727	786,482	-2,00	7,732	784,698	-66,67
2103+1,868	-5,907	786,054	-66,67	-4,500	786,992	5,00	-3,725	786,652	2,00	-3,000	786,637	2,00	784,825	786,577	787,007	2,182	3,002	786,517	-2,000	3,727	786,503	-2,00	7,774	784,691	-66,67
2103+5,000	-5,811	786,153	-66,67	-4,500	787,027	5,00	-3,725	786,686	2,00	-3,000	786,672	2,00	784,827	786,612	787,042	2,215	3,002	786,552	-2,000	3,727	786,537	-2,00	7,846	784,677	-66,67
2103+10,000	-5,578	786,364	-66,67	-4,500	787,082	5,00	-3,725	786,742	2,00	-3,000	786,727	2,00	784,841	786,667	787,097	2,256	3,001	786,607	-2,000	3,726	786,593	-2,00	7,986	784,640	-66,67
2103+15,000	-5,675	786,354	-66,67	-4,500	787,138	5,00	-3,725	786,798	2,00	-3,000	786,783	2,00	784,853	786,723	787,153	2,300	3,001	786,663	-2,000	3,726	786,649	-2,00	8,147	784,587	-66,67
2104+0,000	-5,743	786,365	-66,67	-4,500	787,194	5,00	-3,725	786,853	2,00	-3,000	786,839	2,00	784,864	786,779	787,209	2,345	3,000	786,719	-2,000	3,725	786,704	-2,00	8,288	784,549	-66,67
2104+4,066	-5,672	786,457	-66,67	-4,500	787,239	5,00	-3,725	786,898	2,00	-3,000	786,884	2,00	784,871	786,824	787,254	2,383	3,000	786,764	-2,000	3,725	786,749	-2,00	8,264	784,609	-66,67
2104+4,164	-5,670	786,460	-66,67	-4,500	787,240	5,00	-3,725	786,899	2,00	-3,000	786,885	2,00	784,872	786,825	787,255	2,383	3,000	786,765	-2,000	3,725	786,750	-2,00	8,256	784,616	-66,67
2104+5,000	-5,760	786,409	-66,67	-4,500	787,249	5,00	-3,725	786,909	2,00	-3,000	786,894	2,00	785,123	786,834	787,264	2,141	3,000	786,774	-2,000	3,725	786,760	-2,00	8,185	784,673	-66,67
2104+10,000	-6,221	786,158	-66,67	-4,500	787,305	5,00	-3,725	786,964	2,00	-3,000	786,950	2,00	783,459	786,890	787,320	3,861	3,000	786,830	-2,000	3,725	786,815	-2,00	7,515	785,174	-66,67
2104+13,368	-6,130	786,256	-66,67	-4,500	787,342	5,00	-3,725	787,002	2,00	-3,000	786,987	2,00	783,429	786,927	787,357	3,928	3,000	786,867	-2,000	3,725	786,853	-2,00	8,720	784,409	-66,67
2104+15,000	-6,113	786,285	-66,67	-4,500	787,360	5,00	-3,725	787,020	2,00	-3,000	787,005	2,00	783,502	786,945	787,375	3,873	3,343	786,878	-2,000	4,068	786,864	-2,00	9,258	784,290	-66,67
2105+0,000	-6,113	786,341	-66,67	-4,500	787,416	5,00	-3,725	787,075	2,00	-3,000	787,061	2,00	784,221	787,001	787,431	3,210	3,343	786,934	-2,000	4,068	786,919	-2,00	9,258	784,345	-66,67
2105+2,572	-6,113	786,369	-66,67	-4,500	787,444	5,00	-3,725	787,104	2,00	-3,000	787,089	2,00	784,817	787,029	787,459	2,642	3,343	786,962	-2,000	4,068	786,948	-2,00	9,258	784,374	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 2100

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2100+0,000	-8,028	784,581	-66,670	-5,414	786,323	5,00	-3,914	786,398	2,00	784,599	785,890	786,320	1,721	3,600	786,248	-2,00	7,321	784,692	-66,67
2100+3,672	-6,838	784,787	-66,670	-4,500	786,346	5,00	-3,000	786,421	2,00	784,723	785,931	786,361	1,638	11,277	786,135	-2,00	14,700	784,778	-66,67
2100+5,000	-6,755	784,857	-66,670	-4,500	786,360	5,00	-3,000	786,435	2,00	784,767	785,945	786,375	1,608	11,193	786,152	-2,00	14,634	784,783	-66,67
2100+10,000	-6,729	784,931	-66,670	-4,501	786,416	5,00	-3,001	786,491	2,00	784,822	786,001	786,431	1,609	10,479	786,221	-2,00	13,997	784,801	-66,67
2100+11,154	-6,729	784,943	-66,670	-4,501	786,429	5,00	-3,001	786,504	2,00	784,816	786,014	786,444	1,628	10,479	786,234	-2,00	13,997	784,814	-66,67
2100+15,000	-5,908	785,534	-66,670	-4,501	786,472	5,00	-3,001	786,547	2,00	784,793	786,056	786,486	1,693	8,176	786,323	-2,00	11,842	784,804	-66,67
2100+18,635	-5,765	785,669	-66,670	-4,502	786,512	5,00	-3,002	786,587	2,00	784,760	786,097	786,527	1,767	5,567	786,416	-2,00	9,403	784,783	-66,67
2101+0,000	-5,841	785,634	-66,670	-4,502	786,527	5,00	-3,002	786,602	2,00	784,857	786,112	786,542	1,685	4,204	786,458	-2,00	8,165	784,742	-66,67
2101+10,000	-5,496	785,975	-66,670	-4,501	786,638	5,00	-3,001	786,713	2,00	785,029	786,223	786,653	1,624	3,006	786,593	-2,00	7,239	784,696	-66,67
2101+19,669	-5,663	785,970	-66,670	-4,500	786,746	5,00	-3,000	786,821	2,00	784,702	786,331	786,761	2,059	3,004	786,700	-2,00	7,394	784,699	-66,67
2102+0,000	-5,646	785,985	-66,670	-4,500	786,749	5,00	-3,000	786,824	2,00	784,713	786,334	786,764	2,051	3,004	786,704	-2,00	7,404	784,696	-66,67
2102+5,000	-5,619	786,059	-66,670	-4,500	786,805	5,00	-3,000	786,880	2,00	784,825	786,390	786,820	1,995	3,004	786,760	-2,00	7,466	784,710	-66,67
2102+10,000	-5,877	785,942	-66,670	-4,500	786,860	5,00	-3,000	786,935	2,00	784,839	786,445	786,875	2,036	3,003	786,815	-2,00	7,485	784,752	-66,67
2102+15,000	-5,820	786,036	-66,670	-4,500	786,916	5,00	-3,000	786,991	2,00	784,846	786,501	786,931	2,085	3,003	786,871	-2,00	7,600	784,731	-66,67
2103+0,000	-5,833	786,083	-66,670	-4,500	786,971	5,00	-3,000	787,046	2,00	784,838	786,556	786,986	2,148	3,002	786,926	-2,00	7,732	784,698	-66,67
2103+1,868	-5,907	786,054	-66,670	-4,500	786,992	5,00	-3,000	787,067	2,00	784,825	786,577	787,007	2,182	3,002	786,947	-2,00	7,774	784,691	-66,67
2103+5,000	-5,811	786,153	-66,670	-4,500	787,027	5,00	-3,000	787,102	2,00	784,827	786,612	787,042	2,215	3,002	786,982	-2,00	7,846	784,677	-66,67
2103+10,000	-5,578	786,364	-66,670	-4,500	787,082	5,00	-3,000	787,157	2,00	784,841	786,667	787,097	2,256	3,001	787,037	-2,00	7,986	784,640	-66,67
2103+15,000	-5,675	786,354	-66,670	-4,500	787,138	5,00	-3,000	787,213	2,00	784,853	786,723	787,153	2,300	3,001	787,093	-2,00	8,147	784,587	-66,67
2104+0,000	-5,743	786,365	-66,670	-4,500	787,194	5,00	-3,000	787,269	2,00	784,864	786,779	787,209	2,345	3,000	787,149	-2,00	8,288	784,549	-66,67
2104+4,066	-5,672	786,457	-66,670	-4,500	787,239	5,00	-3,000	787,314	2,00	784,871	786,824	787,254	2,383	3,000	787,194	-2,00	8,264	784,609	-66,67
2104+4,164	-5,670	786,460	-66,670	-4,500	787,240	5,00	-3,000	787,315	2,00	784,872	786,825	787,255	2,383	3,000	787,195	-2,00	8,256	784,616	-66,67
2104+5,000	-5,760	786,409	-66,670	-4,500	787,249	5,00	-3,000	787,324	2,00	785,123	786,834	787,264	2,141	3,000	787,204	-2,00	8,185	784,673	-66,67
2104+10,000	-6,221	786,158	-66,670	-4,500	787,305	5,00	-3,000	787,380	2,00	783,459	786,890	787,320	3,861	3,000	787,260	-2,00	7,515	785,174	-66,67
2104+13,368	-6,130	786,256	-66,670	-4,500	787,342	5,00	-3,000	787,417	2,00	783,429	786,927	787,357	3,928	3,000	787,297	-2,00	8,720	784,409	-66,67
2104+15,000	-6,113	786,285	-66,670	-4,500	787,360	5,00	-3,000	787,435	2,00	783,502	786,945	787,375	3,873	3,343	787,308	-2,00	9,258	784,290	-66,67
2105+0,000	-6,113	786,341	-66,670	-4,500	787,416	5,00	-3,000	787,491	2,00	784,221	787,001	787,431	3,210	3,343	787,364	-2,00	9,258	784,345	-66,67
2105+2,572	-6,113	786,369	-66,670	-4,500	787,444	5,00	-3,000	787,519	2,00	784,817	787,029	787,459	2,642	3,343	787,392	-2,00	9,258	784,374	-66,67

1.3.23 Taper 2200

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 2200																
Estaca	EIXO				LADO DIREITO											
	COTAS				BORDO PISTA			OFFSET SUBBASE			FOLGA			OFFSET		
	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2200+0,000	793,688	793,258	793,688					3,225	793,194	-61,31				4,428	793,691	100,00
2200+10,000	793,833	793,396	793,826	-0,007	0,514	793,385	-2,00	3,225	793,331	-61,31				4,481	793,882	100,00
2201+0,000	793,972	793,533	793,963	-0,009	1,029	793,512	-2,00	3,225	793,469	-61,31				4,335	793,873	100,00
2201+10,000	794,105	793,670	794,100	-0,005	1,543	793,640	-2,00	3,225	793,606	-61,31				4,352	794,028	100,00
2202+0,000	794,230	793,802	794,232	0,002	2,057	793,761	-2,00	3,225	793,737	-61,31				4,376	794,183	100,00
2202+10,000	794,332	793,921	794,351	0,019	2,571	793,869	-2,00	3,297	793,855	-61,30				4,433	794,286	100,00
2203+0,000	794,434	794,027	794,457	0,023	3,086	793,965	-2,00	3,811	793,951	-61,30				4,975	794,409	100,00
2203+10,000	794,543	794,121	794,551	0,008	3,600	794,049	-2,00	4,325	794,035	-61,30				5,525	794,529	100,00
2204+0,000	794,655	794,203	794,633	-0,022	3,600	794,131	-2,00	4,325	794,116	-61,30				5,570	794,655	100,00
2204+10,000	794,695	794,272	794,702	0,007	3,600	794,200	-2,00	4,325	794,185	-61,30				5,564	794,719	100,00
2205+0,000	794,766	794,329	794,759	-0,007	3,661	794,256	-2,00	4,386	794,241	-61,30				5,500	794,649	100,00
2205+10,000	794,738	794,378	794,808	0,070	5,506	794,268	-2,00	6,231	794,254	-61,30				7,507	794,824	100,00
2205+14,085	794,743	794,393	794,823	0,080	7,065	794,252	-2,00	7,790	794,237	-61,30				9,086	794,827	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 2200													
Estaca	EIXO				LADO DIREITO								
	COTAS				BORDO PISTA			ACOSTAMENTO			OFFSET		
	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2200+0,000	793,688	793,258	793,688					2,500	793,638	-2,00	4,428	793,691	100,00
2200+10,000	793,833	793,396	793,826	-0,007	0,514	793,815	-2,00	2,500	793,776	-2,00	4,481	793,882	100,00
2201+0,000	793,972	793,533	793,963	-0,009	1,029	793,942	-2,00	2,500	793,913	-2,00	4,335	793,873	100,00
2201+10,000	794,105	793,670	794,100	-0,005	1,543	794,070	-2,00	2,500	794,050	-2,00	4,352	794,028	100,00
2202+0,000	794,230	793,802	794,232	0,002	2,057	794,191	-2,00	2,500	794,182	-2,00	4,376	794,183	100,00
2202+10,000	794,332	793,921	794,351	0,019	2,571	794,299	-2,00				4,433	794,286	100,00
2203+0,000	794,434	794,027	794,457	0,023	3,086	794,395	-2,00				4,975	794,409	100,00
2203+10,000	794,543	794,121	794,551	0,008	3,600	794,479	-2,00				5,525	794,529	100,00
2204+0,000	794,655	794,203	794,633	-0,022	3,600	794,561	-2,00				5,570	794,655	100,00
2204+10,000	794,695	794,272	794,702	0,007	3,600	794,630	-2,00				5,564	794,719	100,00
2205+0,000	794,766	794,329	794,759	-0,007	3,661	794,686	-2,00				5,500	794,649	100,00
2205+10,000	794,738	794,378	794,808	0,070	5,506	794,698	-2,00				7,507	794,824	100,00
2205+14,085	794,743	794,393	794,823	0,080	7,065	794,682	-2,00				9,086	794,827	100,00

1.3.24 Marginal direita 2300

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 2300																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2309+3,300	-6,493	791,784	-66,67	-5,229	792,627	5,00	-4,454	792,257	-2,00	-3,729	792,272	-2,52	792,216	792,366	792,796	0,580									
2309+7,700	-6,493	791,718	-66,67	-5,229	792,560	5,00	-4,454	792,191	-2,00	-3,729	792,205	-2,52	792,201	792,299	792,729	0,528									
2309+10,000	-6,493	791,683	-66,67	-5,229	792,525	5,00	-4,454	792,156	-2,00	-3,729	792,170	-2,52	792,192	792,264	792,694	0,502									
2309+11,700	-6,493	791,657	-66,67	-5,229	792,499	5,00	-4,454	792,130	-2,00	-3,729	792,144	-2,52	792,185	792,238	792,668	0,483									
2309+16,271	-7,286	791,336	-66,67	-5,679	792,407	5,00	-4,904	792,037	-2,00	-4,179	792,052	-2,80	792,164	792,169	792,599	0,435									
2310+0,000	-7,519	791,204	-66,67	-5,805	792,347	5,00	-5,030	791,977	-2,00	-4,305	791,992	-2,80	792,116	792,112	792,542	0,426									
2310+0,842	-7,519	791,191	-66,67	-5,805	792,334	5,00	-5,030	791,964	-2,00	-4,305	791,979	-2,80	792,066	792,099	792,529	0,463									
2310+4,842	-7,519	791,130	-66,67	-5,805	792,272	5,00	-5,030	791,903	-2,00	-4,305	791,917	-2,80	791,824	792,038	792,468	0,644									
2310+9,242	-7,991	790,875	-66,67	-6,000	792,202	5,00	-5,225	791,833	-2,00	-4,500	791,847	-2,52	791,527	791,961	792,391	0,864	1,500	791,999	2,520						
2310+10,000	-7,991	790,860	-66,67	-6,000	792,188	5,00	-5,225	791,819	-2,00	-4,500	791,833	-2,52	791,475	791,946	792,376	0,901	1,500	791,984	2,520						
2311+0,000	-8,382	790,392	-66,67	-6,000	791,980	5,00	-5,225	791,611	-2,00	-4,500	791,625	-2,16	790,958	791,722	792,152	1,194	1,500	791,755	2,160						
2311+10,000	-8,833	789,814	-66,67	-6,000	791,702	5,00	-5,225	791,332	-2,00	-4,500	791,347	-2,00	790,323	791,437	791,867	1,544	1,500	791,467	2,000	2,225	791,481	2,00	4,327	791,042	-66,67
2312+0,000	-9,054	789,319	-66,67	-6,000	791,355	5,00	-5,225	790,985	-2,00	-4,500	791,000	-2,00	789,650	791,090	791,520	1,870	1,500	791,120	2,000	2,225	791,134	2,00	4,826	790,362	-66,67
2312+10,000	-9,141	788,852	-66,67	-6,000	790,946	5,00	-5,225	790,576	-2,00	-4,500	790,591	-2,00	789,267	790,681	791,111	1,844	1,500	790,711	2,000	2,225	790,725	2,00	5,532	789,483	-66,67
2313+0,000	-9,158	788,371	-66,67	-6,000	790,476	5,00	-5,225	790,106	-2,00	-4,500	790,121	-2,00	788,861	790,211	790,641	1,780	1,500	790,241	2,000	2,225	790,255	2,00	5,430	789,081	-66,67
2313+10,000	-8,974	787,975	-66,67	-6,000	789,958	5,00	-5,225	789,588	-2,00	-4,500	789,603	-2,00	788,539	789,693	790,123	1,584	1,500	789,723	2,000	2,225	789,737	2,00	5,127	788,764	-66,67
2314+0,000	-8,809	787,564	-66,67	-6,000	789,436	5,00	-5,225	789,067	-2,00	-4,500	789,081	-2,00	788,296	789,171	789,601	1,305	1,500	789,201	2,000	2,225	789,216	2,00	4,757	788,490	-66,67
2314+10,000	-8,443	787,286	-66,67	-6,000	788,915	5,00	-5,225	788,545	-2,00	-4,500	788,560	-2,00	787,970	788,650	789,080	1,110	1,500	788,680	2,000	2,225	788,694	2,00	4,346	788,242	-66,67
2315+0,000	-8,257	786,889	-66,67	-6,000	788,393	5,00	-5,225	788,024	-2,00	-4,500	788,038	-2,00	787,634	788,128	788,558	0,924	1,500	788,158	2,000	2,225	788,173	2,00	3,933	787,996	-66,67
2315+10,000	-7,856	786,635	-66,67	-6,000	787,872	5,00	-5,225	787,502	-2,00	-4,500	787,517	-2,00	787,507	787,607	788,037	0,530	1,500	787,637	2,000	2,225	787,651	2,00	3,525	787,747	-66,67
2316+0,000	-7,222	786,537	-66,67	-6,000	787,352	5,00	-5,225	786,982	-2,00	-4,500	786,997	-2,00	787,308	787,087	787,517	0,209	1,500	787,117	2,000	2,225	787,131	2,00	3,118	787,498	-66,67
2316+10,000	-6,720	786,413	-66,67	-6,000	786,893	5,00	-5,225	786,524	-2,00	-4,500	786,538	-2,00	787,010	786,628	787,058	0,048	1,500	786,658	2,000	2,225	786,673	2,00	3,521	787,234	100,00
2317+0,000	-6,658	786,091	-66,67	-6,000	786,529	5,00	-5,225	786,160	-2,00	-4,500	786,174	-2,00	786,694	786,264	786,694		1,500	786,294	2,000	2,225	786,309	2,00	3,588	786,938	100,00
2317+4,027	-6,684	785,953	-66,67	-6,000	786,409	5,00	-5,225	786,040	-2,00	-4,500	786,054	-2,00	786,564	786,144	786,574	0,010	1,500	786,174	2,000	2,225	786,189	2,00	3,553	786,783	100,00
2317+10,000	-6,825	785,763	-66,67	-6,000	786,313	5,00	-5,225	785,944	-2,00	-4,500	785,958	-0,81	786,374	785,995	786,425	0,051	1,500	786,007	0,810	2,225	786,021	2,00	3,571	786,633	100,00
2317+14,027	-6,910	785,661	-66,67	-6,000	786,268	5,00	-5,225	785,898	-2,00	-4,500	785,913		786,223	785,913	786,343	0,120	1,571	785,913		2,296	785,927	2,00	3,602	786,499	100,00
2317+19,627	-7,064	785,520	-66,67	-6,000	786,229	5,00	-5,225	785,860	-2,00	-4,500	785,874	1,12	786,035	785,824	786,254	0,219	3,262	785,788	-1,120	3,987	785,802	2,00	5,345	786,426	100,00
2318+0,000	-7,078	785,509	-66,67	-6,000	786,228	5,00	-5,225	785,858	-2,00	-4,500	785,873	1,19	786,026	785,819	786,249	0,223	3,463	785,778	-1,190	4,188	785,792	2,00	5,555	786,425	100,00
2318+8,027	-7,669	785,115	-66,67	-6,000	786,228	5,00	-5,225	785,858	-2,00	-4,500	785,873	2,80	785,760	785,747	786,177	0,417	8,179	785,518	-2,800	8,904	785,532	2,00	10,577	786,471	100,00
2318+10,000	-7,804	785,015	-66,67	-6,000	786,218	5,00	-5,225	785,848	-2,00	-4,500	785,863	2,80	785,693	785,737	786,167	0,474	8,317	785,504	-2,800	9,042	785,518	2,00	10,686	786,428	100,00
2319+0,000	-8,210	784,705	-66,67	-6,000	786,179	5,00	-5,225	785,809	-2,00	-4,500	785,824	2,80	785,416	785,698	786,128	0,712	8,723	785,453	-2,800	9,448	785,468	2,00	10,897	786,182	100,00
2319+10,000	-8,287	784,661	-66,67	-6,000	786,186	5,00	-5,225	785,816	-2,00	-4,500	785,831	2,80	785,276	785,705	786,135	0,859	7,958	785,482	-2,800	8,683	785,496	2,00	9,842	785,921	100,00
2319+15,653	-8,326	784,660	-66,67	-6,000	786,211	5,00	-5,225	785,842	-2,00	-4,500	785,856	2,80	785,274	785,730	786,160	0,886	7,033	785,533	-2,800	7,758	785,548	2,00	8,795	785,746	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 2300

Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2320+0,000	-8,375	784,658	-66,67	-6,000	786,241	5,00	-5,225	785,872	-2,00	-4,500	785,886	2,80	785,248	785,760	786,190	0,942	6,418	785,581	-2,800	7,143	785,595	2,00	8,254	785,745	-66,67
2320+10,000	-7,988	785,021	-66,67	-6,000	786,346	5,00	-5,225	785,976	-2,00	-4,500	785,991	2,80	785,751	785,865	786,295	0,544	5,327	785,716	-2,800	6,052	785,730	2,00	7,338	786,282	100,00
2321+0,000	-7,336	785,609	-66,67	-6,000	786,499	5,00	-5,225	786,130	-2,00	-4,500	786,144	2,80	786,176	786,018	786,448	0,272	4,687	785,887	-2,800	5,412	785,902	2,00	6,730	786,485	100,00
2321+3,280	-7,214	785,751	-66,67	-6,000	786,560	5,00	-5,225	786,191	-2,00	-4,500	786,205	2,80	786,308	786,079	786,509	0,201	4,576	785,951	-2,800	5,302	785,966	2,00	6,614	786,544	100,00
2321+10,000	-6,769	786,088	-66,67	-6,000	786,601	5,00	-5,225	786,231	-2,00	-4,500	786,246	0,56	786,519	786,220	786,650	0,131	4,500	786,195	-0,560	5,225	786,210	2,00	6,450	786,700	100,00
2321+11,680	-6,667	786,169	-66,67	-6,000	786,614	5,00	-5,225	786,245	-2,00	-4,500	786,259		786,636	786,259	786,689	0,053	4,500	786,259		5,225	786,274	2,00	6,415	786,729	100,00
2321+16,480	-6,667	786,290	-66,67	-6,000	786,734	5,00	-5,225	786,365	-2,00	-4,500	786,379		786,739	786,379	786,809	0,070	4,500	786,379		5,225	786,394	2,00	6,415	786,850	100,00
2321+17,280	-6,667	786,311	-66,67	-6,000	786,756	5,00	-5,225	786,387	-2,00	-4,500	786,401		786,775	786,401	786,831	0,056	4,500	786,401		5,225	786,416	2,00	6,415	786,872	100,00
2321+19,480	-6,667	786,375	-66,67	-6,000	786,819	5,00	-5,225	786,450	-2,00	-4,500	786,464		786,811	786,464	786,894	0,083	4,500	786,464		5,225	786,479	2,00	6,415	786,935	100,00
2322+0,000	-6,421	786,437	-66,67	-6,000	786,718	5,00	-5,225	786,348	-2,00	-4,500	786,363	-2,60	786,812	786,480	786,910	0,098	4,500	786,597	2,600	5,225	786,611	2,00	6,292	786,871	-66,67
2322+7,280	-6,421	786,679	-66,67	-6,000	786,960	5,00	-5,225	786,590	-2,00	-4,500	786,605	-2,60	786,827	786,722	787,152	0,325	4,500	786,839	2,600	5,225	786,853	2,00	6,292	787,113	-66,67
2322+10,000	-6,114	786,986	-66,67	-6,000	787,062	5,00	-5,225	786,693	-2,00	-4,500	786,707	-2,60	786,834	786,824	787,254	0,420	4,500	786,941	2,600	5,225	786,956	2,00	6,180	787,290	-66,67
2323+0,000	-6,015	787,483	-66,67	-6,000	787,493	5,00	-5,225	787,124	-2,00	-4,500	787,138	-2,60	786,962	787,255	787,685	0,723	4,500	787,372	2,600	5,225	787,387	2,00	6,207	787,704	-66,67
2323+2,073	-6,028	787,575	-66,67	-6,000	787,594	5,00	-5,225	787,224	-2,00	-4,500	787,239	-2,60	787,059	787,356	787,786	0,727	4,500	787,473	2,600	5,225	787,487	2,00	6,171	787,828	-66,67
2323+10,000	-6,176	787,894	-66,67	-6,000	788,012	5,00	-5,225	787,642	-2,00	-4,500	787,657	-2,60	787,464	787,774	788,204	0,740	4,500	787,891	2,600	5,225	787,905	2,00	6,030	788,340	-66,67
2324+0,000	-6,476	788,280	-66,67	-6,000	788,597	5,00	-5,225	788,228	-2,00	-4,500	788,242	-2,60	788,112	788,359	788,789	0,677	4,500	788,476	2,600	5,225	788,491	2,00	6,651	789,182	100,00
2324+4,667	-6,476	788,556	-66,67	-6,000	788,873	5,00	-5,225	788,503	-2,00	-4,500	788,518	-2,60	788,330	788,635	789,065	0,735	4,500	788,752	2,600	5,225	788,766	2,00	6,651	789,458	100,00
2324+7,667	-6,476	788,733	-66,67	-6,000	789,050	5,00	-5,225	788,681	-2,00	-4,500	788,695	-2,60	788,454	788,812	789,242	0,788	4,500	788,929	2,600	5,225	788,944	2,00	6,651	789,635	100,00
2324+10,000	-6,544	788,832	-66,67	-6,000	789,194	5,00	-5,225	788,825	-2,00	-4,500	788,839	-2,46	788,546	788,950	789,380	0,834	4,500	789,061	2,460	5,225	789,075	2,00	6,494	789,609	100,00
2324+12,466	-6,555	788,972	-66,67	-6,000	789,343	5,00	-5,225	788,973	-2,00	-4,500	788,988	-2,40	788,640	789,095	789,525	0,885	4,500	789,203	2,400	5,225	789,218	2,00	6,054	789,633	-66,67
2325+0,000	-6,692	789,335	-66,67	-6,000	789,796	5,00	-5,225	789,427	-2,00	-4,500	789,441	-2,20	788,928	789,540	789,970	1,042	4,500	789,639	2,200	5,225	789,654	2,00	6,289	789,909	-66,67
2325+10,000	-6,349	790,163	-66,67	-6,000	790,396	5,00	-5,225	790,026	-2,00	-4,500	790,041	-2,00	789,324	790,131	790,561	1,237	4,500	790,221	2,000	5,225	790,235	2,00	6,722	790,199	-66,67
2326+0,000	-6,428	790,701	-66,67	-6,000	790,986	5,00	-5,225	790,617	-2,00	-4,500	790,631	-2,00	789,635	790,721	791,151	1,516	4,500	790,811	2,000	5,225	790,826	2,00	6,964	790,629	-66,67
2326+10,000	-6,722	791,080	-66,67	-6,000	791,562	5,00	-5,225	791,192	-2,00	-4,500	791,207	-2,00	790,533	791,297	791,727	1,194	4,500	791,387	2,000	5,225	791,401	2,00	7,399	790,914	-66,67
2327+0,000	-6,934	791,454	-66,67	-6,000	792,077	5,00	-5,225	791,707	-2,00	-4,500	791,722	-2,00	791,167	791,812	792,242	1,075	4,500	791,902	2,000	5,225	791,916	2,00	7,876	791,111	-66,67
2327+10,000	-6,845	791,964	-66,67	-6,000	792,527	5,00	-5,225	792,158	-2,00	-4,500	792,172	-2,00	791,964	792,262	792,692	0,728	4,500	792,352	2,000	5,225	792,367	2,00	8,021	791,465	-66,67
2328+0,000	-6,803	792,377	-66,67	-6,000	792,913	5,00	-5,225	792,543	-2,00	-4,500	792,558	-2,00	792,222	792,648	793,078	0,856	5,017	792,748	2,000	5,742	792,763	2,00	8,029	792,200	-66,67
2328+10,000	-6,661	792,793	-66,67	-6,000	793,234	5,00	-5,225	792,864	-2,00	-4,500	792,879	-2,00	792,831	792,969	793,399	0,568	5,489	793,079	2,000	6,214	793,093	2,00	7,765	793,021	-66,67
2329+0,000	-6,371	793,243	-66,67	-6,000	793,491	5,00	-5,225	793,121	-2,00	-4,500	793,136	-2,00	793,305	793,226	793,656	0,351	5,489	793,335	2,000	6,214	793,350	2,00	8,191	792,994	-66,67
2329+10,000	-6,082	793,642	-66,67	-6,000	793,697	5,00	-5,225	793,328	-2,00	-4,500	793,342	-2,00	793,696	793,432	793,862	0,166	4,500	793,522	2,000	5,225	793,537	2,00	6,794	793,453	-66,67
2330+0,000	-6,414	794,014	100,00	-6,000	793,600	25,00	-5,225	793,531	-2,00	-4,500	793,545	-2,00	794,091	793,635	794,065	-0,026	4,500	793,725	2,000	5,225	793,740	2,00	6,537	793,827	-66,67
2330+10,000	-6,647	794,450	100,00	-6,000	793,803	25,00	-5,225	793,734	-2,00	-4,500	793,748	-2,00	794,533	793,838	794,268	-0,265	4,500	793,928	2,000	5,225	793,943	2,00	6,319	794,175	-66,67
2331+0,000							-5,225	793,937	-2,00	-4,500	793,951	-2,00	794,978	794,041	794,471	-0,507	4,500	794,131	2,000	5,225	794,146	2,00	6,764	794,950	100,00
2331+10,000	-7,005	795,214	100,00	-6,000	794,209	25,00	-5,225	794,140	-2,00	-4,500	794,154	-2,00	795,327	794,244	794,674	-0,653	4,500	794,334	2,000	5,225	794,349	2,00	6,796	795,185	100,00
2340+0,000	-6,674	797,777	100,00	-6,000	797,103	25,00	-5,225	794,343	-2,00	-4,500	794,357	-2,00	797,260	797,138	797,568	0,308	4,500	794,537	2,000	5,225	794,552	2,00	6,761	797,180	-66,67

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 2300																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO								
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2340+10,000	-6,666	797,851	100,00	-6,000	797,185	25,00	-5,225	794,546	-2,00	-4,500	794,560	-2,00	797,352	797,220	797,650	0,298	4,500	794,740	2,000	5,225	794,755	2,00	6,791	797,242	-66,67
2341+0,000	-6,671	797,925	100,00	-6,000	797,254	25,00	-5,225	794,748	-2,00	-4,500	794,763	-2,00	797,428	797,289	797,719	0,291	4,500	794,943	2,000	5,225	794,957	2,00	6,788	797,314	-66,67
2341+10,000	-6,686	798,001	100,00	-6,000	797,315	25,00	-5,225	794,951	-2,00	-4,500	794,966	-2,00	797,543	797,350	797,780	0,237	4,500	795,146	2,000	5,225	795,160	2,00	6,756	797,396	-66,67
2342+0,000	-6,979	798,354	100,00	-6,000	797,375	25,00	-5,225	795,154	-2,00	-4,500	795,169	-2,00	797,994	797,410	797,840	-0,154	4,500	795,349	2,000	5,225	795,363	2,00	6,323	797,745	-66,67
2342+10,000	-7,238	798,673	100,00	-6,000	797,435	25,00	-5,225	795,357	-2,00	-4,500	795,372	-2,00	798,181	797,470	797,900	-0,281	4,500	795,552	2,000	5,225	795,566	2,00	6,188	797,895	-66,67
2343+0,000	-7,346	798,841	100,00	-6,000	797,495	25,00	-5,225	795,560	-2,00	-4,500	795,575	-2,00	798,346	797,530	797,960	-0,386	4,500	795,755	2,000	5,225	795,769	2,00	6,432	798,107	100,00
2343+10,000	-7,432	798,987	100,00	-6,000	797,555	25,00	-5,225	795,761	-2,00	-4,500	795,775	-2,00	798,443	797,590	798,020	-0,423	4,500	795,955	2,000	5,225	795,970	2,00	6,155	798,037	-66,67
2344+0,000	-7,666	799,281	100,00	-6,000	797,615	25,00	-5,225	795,950	-2,00	-4,500	795,964	-2,00	798,259	797,650	798,080	-0,179	4,500	796,144	2,000	5,225	796,159	2,00	6,207	798,062	-66,67
2344+10,000	-8,331	800,006	100,00	-6,000	797,675	25,00	-5,225	796,127	-2,00	-4,500	796,141	-2,00	798,099	797,710	798,140	0,041	4,500	796,321	2,000	5,225	796,336	2,00	6,116	798,183	-66,67
2345+0,000	-8,125	798,872	100,00	-6,969	797,716	25,00	-5,225	796,292	-2,00	-4,500	796,307	-2,00	798,192	797,770	798,200	0,008	4,500	796,487	2,000	5,225	796,501	2,00	6,048	798,288	-66,67
2345+10,000	-6,581	798,376	100,00	-6,000	797,795	25,00	-5,225	796,445	-2,00	-4,500	796,460	-2,00	798,221	797,830	798,260	0,039	4,500	796,640	2,000	5,225	796,655	2,00	6,491	798,053	-66,67
2345+14,148	-6,581	798,376	100,00	-6,000	797,795	25,00	-5,225	796,587	-2,00	-4,500	796,601	-2,00	798,292	797,830	798,260	-0,032	4,500	796,781	2,000	5,225	796,796	2,00	6,491	798,053	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 2300

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2309+3,300	-6,493	791,784	-66,670	-5,229	792,627	5,00	-3,729	792,702	-2,52	792,216	792,366	792,796	0,580						
2309+7,700	-6,493	791,718	-66,670	-5,229	792,560	5,00	-3,729	792,635	-2,52	792,201	792,299	792,729	0,528						
2309+10,000	-6,493	791,683	-66,670	-5,229	792,525	5,00	-3,729	792,600	-2,52	792,192	792,264	792,694	0,502						
2309+11,700	-6,493	791,657	-66,670	-5,229	792,499	5,00	-3,729	792,574	-2,52	792,185	792,238	792,668	0,483						
2309+16,271	-7,286	791,336	-66,670	-5,679	792,407	5,00	-4,179	792,482	-2,80	792,164	792,169	792,599	0,435						
2310+0,000	-7,519	791,204	-66,670	-5,805	792,347	5,00	-4,305	792,422	-2,80	792,116	792,112	792,542	0,426						
2310+0,842	-7,519	791,191	-66,670	-5,805	792,334	5,00	-4,305	792,409	-2,80	792,066	792,099	792,529	0,463						
2310+4,842	-7,519	791,130	-66,670	-5,805	792,272	5,00	-4,305	792,347	-2,80	791,824	792,038	792,468	0,644						
2310+9,242	-7,991	790,875	-66,670	-6,000	792,202	5,00	-4,500	792,277	-2,52	791,527	791,961	792,391	0,864	1,500	792,429	2,52			
2310+10,000	-7,991	790,860	-66,670	-6,000	792,188	5,00	-4,500	792,263	-2,52	791,475	791,946	792,376	0,901	1,500	792,414	2,52			
2311+0,000	-8,382	790,392	-66,670	-6,000	791,980	5,00	-4,500	792,055	-2,16	790,958	791,722	792,152	1,194	1,500	792,185	2,16			
2311+10,000	-8,833	789,814	-66,670	-6,000	791,702	5,00	-4,500	791,777	-2,00	790,323	791,437	791,867	1,544	1,500	791,897	2,00	4,327	791,042	-66,67
2312+0,000	-9,054	789,319	-66,670	-6,000	791,355	5,00	-4,500	791,430	-2,00	789,650	791,090	791,520	1,870	1,500	791,550	2,00	4,826	790,362	-66,67
2312+10,000	-9,141	788,852	-66,670	-6,000	790,946	5,00	-4,500	791,021	-2,00	789,267	790,681	791,111	1,844	1,500	791,141	2,00	5,532	789,483	-66,67
2313+0,000	-9,158	788,371	-66,670	-6,000	790,476	5,00	-4,500	790,551	-2,00	788,861	790,211	790,641	1,780	1,500	790,671	2,00	5,430	789,081	-66,67
2313+10,000	-8,974	787,975	-66,670	-6,000	789,958	5,00	-4,500	790,033	-2,00	788,539	789,693	790,123	1,584	1,500	790,153	2,00	5,127	788,764	-66,67
2314+0,000	-8,809	787,564	-66,670	-6,000	789,436	5,00	-4,500	789,511	-2,00	788,296	789,171	789,601	1,305	1,500	789,631	2,00	4,757	788,490	-66,67
2314+10,000	-8,443	787,286	-66,670	-6,000	788,915	5,00	-4,500	788,990	-2,00	787,970	788,650	789,080	1,110	1,500	789,110	2,00	4,346	788,242	-66,67
2315+0,000	-8,257	786,889	-66,670	-6,000	788,393	5,00	-4,500	788,468	-2,00	787,634	788,128	788,558	0,924	1,500	788,588	2,00	3,933	787,996	-66,67
2315+10,000	-7,856	786,635	-66,670	-6,000	787,872	5,00	-4,500	787,947	-2,00	787,507	787,607	788,037	0,530	1,500	788,067	2,00	3,525	787,747	-66,67
2316+0,000	-7,222	786,537	-66,670	-6,000	787,352	5,00	-4,500	787,427	-2,00	787,308	787,087	787,517	0,209	1,500	787,547	2,00	3,118	787,498	-66,67
2316+10,000	-6,720	786,413	-66,670	-6,000	786,893	5,00	-4,500	786,968	-2,00	787,010	786,628	787,058	0,048	1,500	787,088	2,00	3,521	787,234	100,00
2317+0,000	-6,658	786,091	-66,670	-6,000	786,529	5,00	-4,500	786,604	-2,00	786,694	786,264	786,694		1,500	786,724	2,00	3,588	786,938	100,00
2317+4,027	-6,684	785,953	-66,670	-6,000	786,409	5,00	-4,500	786,484	-2,00	786,564	786,144	786,574	0,010	1,500	786,604	2,00	3,553	786,783	100,00
2317+10,000	-6,825	785,763	-66,670	-6,000	786,313	5,00	-4,500	786,388	-0,81	786,374	785,995	786,425	0,051	1,500	786,437	0,81	3,571	786,633	100,00
2317+14,027	-6,910	785,661	-66,670	-6,000	786,268	5,00	-4,500	786,343		786,223	785,913	786,343	0,120	1,571	786,343		3,602	786,499	100,00
2317+19,627	-7,064	785,520	-66,670	-6,000	786,229	5,00	-4,500	786,304	1,12	786,035	785,824	786,254	0,219	3,262	786,218	-1,12	5,345	786,426	100,00
2318+0,000	-7,078	785,509	-66,670	-6,000	786,228	5,00	-4,500	786,303	1,19	786,026	785,819	786,249	0,223	3,463	786,208	-1,19	5,555	786,425	100,00
2318+8,027	-7,669	785,115	-66,670	-6,000	786,228	5,00	-4,500	786,303	2,80	785,760	785,747	786,177	0,417	8,179	785,948	-2,80	10,577	786,471	100,00
2318+10,000	-7,804	785,015	-66,670	-6,000	786,218	5,00	-4,500	786,293	2,80	785,693	785,737	786,167	0,474	8,317	785,934	-2,80	10,686	786,428	100,00
2319+0,000	-8,210	784,705	-66,670	-6,000	786,179	5,00	-4,500	786,254	2,80	785,416	785,698	786,128	0,712	8,723	785,883	-2,80	10,897	786,182	100,00
2319+10,000	-8,287	784,661	-66,670	-6,000	786,186	5,00	-4,500	786,261	2,80	785,276	785,705	786,135	0,859	7,958	785,912	-2,80	9,842	785,921	100,00
2319+15,653	-8,326	784,660	-66,670	-6,000	786,211	5,00	-4,500	786,286	2,80	785,274	785,730	786,160	0,886	7,033	785,963	-2,80	8,795	785,746	-66,67
2320+0,000	-8,375	784,658	-66,670	-6,000	786,241	5,00	-4,500	786,316	2,80	785,248	785,760	786,190	0,942	6,418	786,011	-2,80	8,254	785,745	-66,67

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 2300

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2320+10,000	-7,988	785,021	-66,670	-6,000	786,346	5,00	-4,500	786,421	2,80	785,751	785,865	786,295	0,544	5,327	786,146	-2,80	7,338	786,282	100,00
2321+0,000	-7,336	785,609	-66,670	-6,000	786,499	5,00	-4,500	786,574	2,80	786,176	786,018	786,448	0,272	4,687	786,317	-2,80	6,730	786,485	100,00
2321+3,280	-7,214	785,751	-66,670	-6,000	786,560	5,00	-4,500	786,635	2,80	786,308	786,079	786,509	0,201	4,576	786,381	-2,80	6,614	786,544	100,00
2321+10,000	-6,769	786,088	-66,670	-6,000	786,601	5,00	-4,500	786,676	0,56	786,519	786,220	786,650	0,131	4,500	786,625	-0,56	6,450	786,700	100,00
2321+11,680	-6,667	786,169	-66,670	-6,000	786,614	5,00	-4,500	786,689		786,636	786,259	786,689	0,053	4,500	786,689		6,415	786,729	100,00
2321+16,480	-6,667	786,290	-66,670	-6,000	786,734	5,00	-4,500	786,809		786,739	786,379	786,809	0,070	4,500	786,809		6,415	786,850	100,00
2321+17,280	-6,667	786,311	-66,670	-6,000	786,756	5,00	-4,500	786,831		786,775	786,401	786,831	0,056	4,500	786,831		6,415	786,872	100,00
2321+19,480	-6,667	786,375	-66,670	-6,000	786,819	5,00	-4,500	786,894		786,811	786,464	786,894	0,083	4,500	786,894		6,415	786,935	100,00
2322+0,000	-6,421	786,437	-66,670	-6,000	786,718	5,00	-4,500	786,793	-2,60	786,812	786,480	786,910	0,098	4,500	787,027	2,60	6,292	786,871	-66,67
2322+7,280	-6,421	786,679	-66,670	-6,000	786,960	5,00	-4,500	787,035	-2,60	786,827	786,722	787,152	0,325	4,500	787,269	2,60	6,292	787,113	-66,67
2322+10,000	-6,114	786,986	-66,670	-6,000	787,062	5,00	-4,500	787,137	-2,60	786,834	786,824	787,254	0,420	4,500	787,371	2,60	6,180	787,290	-66,67
2323+0,000	-6,015	787,483	-66,670	-6,000	787,493	5,00	-4,500	787,568	-2,60	786,962	787,255	787,685	0,723	4,500	787,802	2,60	6,207	787,704	-66,67
2323+2,073	-6,028	787,575	-66,670	-6,000	787,594	5,00	-4,500	787,669	-2,60	787,059	787,356	787,786	0,727	4,500	787,903	2,60	6,171	787,828	-66,67
2323+10,000	-6,176	787,894	-66,670	-6,000	788,012	5,00	-4,500	788,087	-2,60	787,464	787,774	788,204	0,740	4,500	788,321	2,60	6,030	788,340	-66,67
2324+0,000	-6,476	788,280	-66,670	-6,000	788,597	5,00	-4,500	788,672	-2,60	788,112	788,359	788,789	0,677	4,500	788,906	2,60	6,651	789,182	100,00
2324+4,667	-6,476	788,556	-66,670	-6,000	788,873	5,00	-4,500	788,948	-2,60	788,330	788,635	789,065	0,735	4,500	789,182	2,60	6,651	789,458	100,00
2324+7,667	-6,476	788,733	-66,670	-6,000	789,050	5,00	-4,500	789,125	-2,60	788,454	788,812	789,242	0,788	4,500	789,359	2,60	6,651	789,635	100,00
2324+10,000	-6,544	788,832	-66,670	-6,000	789,194	5,00	-4,500	789,269	-2,46	788,546	788,950	789,380	0,834	4,500	789,491	2,46	6,494	789,609	100,00
2324+12,466	-6,555	788,972	-66,670	-6,000	789,343	5,00	-4,500	789,418	-2,40	788,640	789,095	789,525	0,885	4,500	789,633	2,40	6,054	789,633	-66,67
2325+0,000	-6,692	789,335	-66,670	-6,000	789,796	5,00	-4,500	789,871	-2,20	788,928	789,540	789,970	1,042	4,500	790,069	2,20	6,289	789,909	-66,67
2325+10,000	-6,349	790,163	-66,670	-6,000	790,396	5,00	-4,500	790,471	-2,00	789,324	790,131	790,561	1,237	4,500	790,651	2,00	6,722	790,199	-66,67
2326+0,000	-6,428	790,701	-66,670	-6,000	790,986	5,00	-4,500	791,061	-2,00	789,635	790,721	791,151	1,516	4,500	791,241	2,00	6,964	790,629	-66,67
2326+10,000	-6,722	791,080	-66,670	-6,000	791,562	5,00	-4,500	791,637	-2,00	790,533	791,297	791,727	1,194	4,500	791,817	2,00	7,399	790,914	-66,67
2327+0,000	-6,934	791,454	-66,670	-6,000	792,077	5,00	-4,500	792,152	-2,00	791,167	791,812	792,242	1,075	4,500	792,332	2,00	7,876	791,111	-66,67
2327+10,000	-6,845	791,964	-66,670	-6,000	792,527	5,00	-4,500	792,602	-2,00	791,964	792,262	792,692	0,728	4,500	792,782	2,00	8,021	791,465	-66,67
2328+0,000	-6,803	792,377	-66,670	-6,000	792,913	5,00	-4,500	792,988	-2,00	792,222	792,648	793,078	0,856	5,017	793,178	2,00	8,029	792,200	-66,67
2328+10,000	-6,661	792,793	-66,670	-6,000	793,234	5,00	-4,500	793,309	-2,00	792,831	792,969	793,399	0,568	5,489	793,509	2,00	7,765	793,021	-66,67
2329+0,000	-6,371	793,243	-66,670	-6,000	793,491	5,00	-4,500	793,566	-2,00	793,305	793,226	793,656	0,351	5,489	793,765	2,00	8,191	792,994	-66,67
2329+10,000	-6,082	793,642	-66,670	-6,000	793,697	5,00	-4,500	793,772	-2,00	793,696	793,432	793,862	0,166	4,500	793,952	2,00	6,794	793,453	-66,67
2330+0,000	-6,414	794,014	100,000	-6,000	793,600	25,00	-4,500	793,975	-2,00	794,091	793,635	794,065	-0,026	4,500	794,155	2,00	6,537	793,827	-66,67
2330+10,000	-6,647	794,450	100,000	-6,000	793,803	25,00	-4,500	794,178	-2,00	794,533	793,838	794,268	-0,265	4,500	794,358	2,00	6,319	794,175	-66,67
2331+0,000							-4,500	794,381	-2,00	794,978	794,041	794,471	-0,507	4,500	794,561	2,00	6,764	794,950	100,00
2331+10,000	-7,005	795,214	100,000	-6,000	794,209	25,00	-4,500	794,584	-2,00	795,327	794,244	794,674	-0,653	4,500	794,764	2,00	6,796	795,185	100,00
2332+0,000	-7,129	795,541	100,000	-6,000	794,412	25,00	-4,500	794,787	-2,00	795,605	794,447	794,877	-0,728	4,500	794,967	2,00	6,492	795,084	100,00

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 2300

Estaca	LADO ESQUERDO									EIXO				LADO DIREITO					
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2332+10,000	-7,239	795,854	100,000	-6,000	794,615	25,00	-4,500	794,990	-2,00	795,818	794,650	795,080	-0,738	4,500	795,170	2,00	6,792	795,587	100,00
2333+0,000	-7,284	796,102	100,000	-6,000	794,818	25,00	-4,500	795,193	-2,00	796,100	794,853	795,283	-0,817	4,500	795,373	2,00	6,880	795,878	100,00
2333+10,000	-7,415	796,436	100,000	-6,000	795,021	25,00	-4,500	795,396	-2,00	796,397	795,056	795,486	-0,911	4,500	795,576	2,00	6,961	796,162	100,00
2334+0,000	-7,507	796,731	100,000	-6,000	795,224	25,00	-4,500	795,599	-2,00	796,717	795,259	795,689	-1,028	4,500	795,779	2,00	7,048	796,452	100,00
2334+10,000	-7,544	796,971	100,000	-6,000	795,427	25,00	-4,500	795,802	-2,00	796,945	795,462	795,892	-1,053	4,500	795,982	2,00	6,895	796,502	100,00
2335+0,000	-7,558	797,188	100,000	-6,000	795,630	25,00	-4,500	796,005	-2,00	797,184	795,665	796,095	-1,089	4,500	796,185	2,00	6,747	796,557	100,00
2335+10,000	-7,367	797,197	100,000	-6,000	795,830	25,00	-4,500	796,205	-2,00	797,249	795,865	796,295	-0,954	4,500	796,385	2,00	6,639	796,649	100,00
2336+0,000	-7,290	797,309	100,000	-6,000	796,019	25,00	-4,500	796,394	-2,00	797,437	796,054	796,484	-0,953	4,500	796,574	2,00	6,545	796,744	100,00
2336+10,000	-7,309	797,505	100,000	-6,000	796,196	25,00	-4,500	796,571	-2,00	797,392	796,231	796,661	-0,731	4,500	796,751	2,00	6,406	796,782	100,00
2337+0,000	-7,246	797,608	100,000	-6,000	796,362	25,00	-4,500	796,737	-2,00	797,175	796,397	796,827	-0,348	4,500	796,917	2,00	6,179	796,827	-66,67
2337+10,000	-6,935	797,450	100,000	-6,000	796,515	25,00	-4,500	796,890	-2,00	797,130	796,550	796,980	-0,150	4,500	797,070	2,00	6,284	796,910	-66,67
2338+0,000	-6,787	797,443	100,000	-6,000	796,656	25,00	-4,500	797,031	-2,00	797,159	796,691	797,121	-0,038	4,500	797,211	2,00	6,369	796,995	-66,67
2338+10,000	-6,690	797,476	100,000	-6,000	796,786	25,00	-4,500	797,161	-2,00	797,186	796,821	797,251	0,065	4,500	797,341	2,00	6,141	797,277	-66,67
2339+0,000	-6,570	797,474	100,000	-6,000	796,903	25,00	-4,500	797,278	-2,00	797,195	796,938	797,368	0,173	4,500	797,458	2,00	6,166	797,378	-66,67
2339+10,000	-6,582	797,591	100,000	-6,000	797,009	25,00	-4,500	797,384	-2,00	797,183	797,044	797,474	0,291	4,500	797,564	2,00	6,418	797,316	-66,67
2340+0,000	-6,674	797,777	100,000	-6,000	797,103	25,00	-4,500	797,478	-2,00	797,260	797,138	797,568	0,308	4,500	797,658	2,00	6,761	797,180	-66,67
2340+10,000	-6,666	797,851	100,000	-6,000	797,185	25,00	-4,500	797,560	-2,00	797,352	797,220	797,650	0,298	4,500	797,740	2,00	6,791	797,242	-66,67
2341+0,000	-6,671	797,925	100,000	-6,000	797,254	25,00	-4,500	797,629	-2,00	797,428	797,289	797,719	0,291	4,500	797,809	2,00	6,788	797,314	-66,67
2341+10,000	-6,686	798,001	100,000	-6,000	797,315	25,00	-4,500	797,690	-2,00	797,543	797,350	797,780	0,237	4,500	797,870	2,00	6,756	797,396	-66,67
2342+0,000	-6,979	798,354	100,000	-6,000	797,375	25,00	-4,500	797,750	-2,00	797,994	797,410	797,840	-0,154	4,500	797,930	2,00	6,323	797,745	-66,67
2342+10,000	-7,238	798,673	100,000	-6,000	797,435	25,00	-4,500	797,810	-2,00	798,181	797,470	797,900	-0,281	4,500	797,990	2,00	6,188	797,895	-66,67
2343+0,000	-7,346	798,841	100,000	-6,000	797,495	25,00	-4,500	797,870	-2,00	798,346	797,530	797,960	-0,386	4,500	798,050	2,00	6,432	798,107	100,00
2343+10,000	-7,432	798,987	100,000	-6,000	797,555	25,00	-4,500	797,930	-2,00	798,443	797,590	798,020	-0,423	4,500	798,110	2,00	6,155	798,037	-66,67
2344+0,000	-7,666	799,281	100,000	-6,000	797,615	25,00	-4,500	797,990	-2,00	798,259	797,650	798,080	-0,179	4,500	798,170	2,00	6,207	798,062	-66,67
2344+10,000	-8,331	800,006	100,000	-6,000	797,675	25,00	-4,500	798,050	-2,00	798,099	797,710	798,140	0,041	4,500	798,230	2,00	6,116	798,183	-66,67
2345+0,000	-8,125	798,872	100,000	-6,969	797,716	25,00	-5,469	798,091	-2,00	798,192	797,770	798,200	0,008	4,500	798,290	2,00	6,048	798,288	-66,67
2345+10,000	-6,581	798,376	100,000	-6,000	797,795	25,00	-4,500	798,170	-2,00	798,221	797,830	798,260	0,039	4,500	798,350	2,00	6,491	798,053	-66,67
2345+14,148	-6,581	798,376	100,000	-6,000	797,795	25,00	-4,500	798,170	-2,00	798,292	797,830	798,260	-0,032	4,500	798,350	2,00	6,491	798,053	-66,67

1.3.25 Taper 2600

NOTA DE SERVIÇO DE TERRAPLENAGEM - ALINHAMENTO 2600																
Estaca	LADO ESQUERDO												EIXO			
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS			
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA
2601+5,803													792,968	793,083	793,513	0,545
2601+8,299	-5,396	793,095	-66,67	-4,870	793,446	5,00	-4,095	793,077	-2,00	-3,370	793,091	-2,00	793,050	793,159	793,589	0,539
2601+10,000	-6,157	793,171	-66,67	-5,696	793,479	5,00	-4,921	793,109	-2,00	-4,196	793,124	-2,00	792,983	793,207	793,637	0,654
2601+11,687	-7,033	793,163	-66,67	-6,515	793,508	5,00	-5,740	793,139	-2,00	-5,015	793,153	-2,00	792,918	793,254	793,684	0,766
2602+0,000	-6,408	793,285	-66,67	-5,755	793,720	5,00	-4,980	793,351	-2,00	-4,255	793,365	-2,00	793,001	793,450	793,880	0,879
2602+10,000	-5,500	793,672	-66,67	-5,100	793,938	5,00	-4,325	793,569	-2,00	-3,600	793,583	-2,00	793,362	793,655	794,085	0,723
2603+0,000	-5,296	794,013	-66,67	-5,100	794,143	5,00	-4,325	793,774	-2,00	-3,600	793,788	-2,00	793,727	793,860	794,290	0,563
2603+10,000	-5,748	794,697	100,00	-5,100	794,049	25,00	-4,325	793,980	-2,00	-3,600	793,994	-2,00	794,108	794,066	794,496	0,388
2604+0,000	-5,447	795,129	100,00	-4,586	794,267	25,00	-3,811	794,198	-2,00	-3,086	794,212	-2,00	794,973	794,274	794,704	-0,269
2604+10,000	-5,028	795,443	100,00	-4,071	794,486	25,00	-3,296	794,416	-2,00	-2,571	794,431	-2,00	794,968	794,482	794,912	-0,056
2605+0,000	-4,548	795,244	100,00	-4,000	794,696	25,00	-3,225	794,627	-2,00	-2,057	794,650	-2,00	795,127	794,691	795,121	-0,006
2605+10,000	-4,863	795,767	100,00	-4,000	794,905	25,00	-3,225	795,253	-2,00	-0,514	795,307	-2,00	795,603	794,900	795,330	-0,273
2607+0,000	-5,220	796,750	100,00	-4,000	795,531	25,00	-3,225	795,461	-2,00				796,021	795,526	795,956	-0,065

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - ALINHAMENTO 2600																
Estaca	LADO ESQUERDO												EIXO			
	OFFSET			FOLGA			ACOSTAMENTO			BORDO PISTA			COTAS			
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA
2601+5,803													792,968	793,083	793,513	0,545
2601+8,299	-5,396	793,095	-66,67	-4,870	793,446	5,00				-3,370	793,521	-2,00	793,050	793,159	793,589	0,539
2601+10,000	-6,157	793,171	-66,67	-5,696	793,479	5,00				-4,196	793,554	-2,00	792,983	793,207	793,637	0,654
2601+11,687	-7,033	793,163	-66,67	-6,515	793,508	5,00				-5,015	793,583	-2,00	792,918	793,254	793,684	0,766
2602+0,000	-6,408	793,285	-66,67	-5,755	793,720	5,00				-4,255	793,795	-2,00	793,001	793,450	793,880	0,879
2602+10,000	-5,500	793,672	-66,67	-5,100	793,938	5,00				-3,600	794,013	-2,00	793,362	793,655	794,085	0,723
2603+0,000	-5,296	794,013	-66,67	-5,100	794,143	5,00				-3,600	794,218	-2,00	793,727	793,860	794,290	0,563
2603+10,000	-5,748	794,697	100,00	-5,100	794,049	25,00				-3,600	794,424	-2,00	794,108	794,066	794,496	0,388
2604+0,000	-5,447	795,129	100,00	-4,586	794,267	25,00				-3,086	794,642	-2,00	794,973	794,274	794,704	-0,269
2604+10,000	-5,028	795,443	100,00	-4,071	794,486	25,00				-2,571	794,861	-2,00	794,968	794,482	794,912	-0,056
2605+0,000	-4,548	795,244	100,00	-4,000	794,696	25,00	-2,500	795,071	-2,00	-2,057	795,080	-2,00	795,127	794,691	795,121	-0,006
2605+10,000	-4,863	795,767	100,00	-4,000	794,905	25,00	-2,500	795,280	-2,00	-1,543	795,299	-2,00	795,603	794,900	795,330	-0,273
2606+0,000	-5,070	796,183	100,00	-4,000	795,113	25,00	-2,500	795,488	-2,00	-1,029	795,518	-2,00	795,485	795,108	795,538	0,053
2606+10,000	-5,154	796,476	100,00	-4,000	795,322	25,00	-2,500	795,697	-2,00	-0,514	795,737	-2,00	795,751	795,317	795,747	-0,004
2607+0,000	-5,220	796,750	100,00	-4,000	795,531	25,00	-2,500	795,906	-2,00				796,021	795,526	795,956	-0,065

1.3.26 PI km 580+040

NOTA DE SERVIÇO DE TERRAPLENAGEM - PI km 580+040																					
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO							
	OFFSET			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
4500+0,000										787,420	781,450	781,880	-5,540									
4500+10,000			muro							787,316	781,657	782,087	-5,229									muro
4501+0,000	-7,217	782,042	muro	-5,942	781,698	-2,00	-5,217	781,712	-2,00	789,541	781,816	782,246	-7,295	5,089	781,715	-2,00	5,814	781,700	-2,00	7,089	782,045	muro
4501+10,000	-7,217	782,040	muro	-5,942	781,696	-2,00	-5,217	781,710	-2,00	790,139	781,815	782,245	-7,894	5,089	781,713	-2,00	5,814	781,698	-2,00	7,089	782,043	muro
4502+0,000	-7,055	787,516	muro	-5,725	781,650	-2,00	-5,000	781,665	-2,00	787,696	781,765	782,195	-5,501	5,000	781,665	-2,00	5,726	781,650	-2,00	7,000	781,995	muro
4502+10,000	-7,055	787,455	muro	-5,725	781,590	-2,00	-5,000	781,604	-2,00	785,937	781,704	782,134	-3,803	5,000	781,604	-2,00	5,726	781,590	-2,00	7,000	781,934	muro
4503+0,000	-7,055	787,309	muro	-5,725	781,443	-2,00	-5,000	781,458	-2,00	785,775	781,558	781,988	-3,787	5,000	781,458	-2,00	5,726	781,443	-2,00	7,000	781,788	muro
4503+7,657	-7,055	787,154	muro	-5,725	781,288	-2,00	-5,000	781,303	-2,00	785,075	781,403	781,833	-3,242	5,000	781,303	-2,00	5,726	781,288	-2,00	7,000	781,633	muro

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - PI km 580+040																
Estaca	LADO ESQUERDO									LADO DIREITO						
	OFFSET			BORDO PISTA			COTAS				BORDO PISTA			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAPLENAGEM	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
4500+0,000							787,420	781,450	781,880	-5,540						
4500+10,000			muro				787,316	781,657	782,087	-5,229						muro
4501+0,000	-7,217	782,042	muro	-5,217	782,142	-2,00	789,541	781,816	782,246	-7,295	5,089	782,145	-2,00	7,089	782,045	muro
4501+10,000	-7,217	782,040	muro	-5,217	782,140	-2,00	790,139	781,815	782,245	-7,894	5,089	782,143	-2,00	7,089	782,043	muro
4502+0,000	-7,055	787,516	muro	-5,000	782,095	-2,00	787,696	781,765	782,195	-5,501	5,000	782,095	-2,00	7,000	781,995	muro
4502+10,000	-7,055	787,455	muro	-5,000	782,034	-2,00	785,937	781,704	782,134	-3,803	5,000	782,034	-2,00	7,000	781,934	muro
4503+0,000	-7,055	787,309	muro	-5,000	781,888	-2,00	785,775	781,558	781,988	-3,787	5,000	781,888	-2,00	7,000	781,788	muro
4503+7,657	-7,055	787,154	muro	-5,000	781,733	-2,00	785,075	781,403	781,833	-3,242	5,000	781,733	-2,00	7,000	781,633	muro

1.3.27 PI km 575+100

NOTA DE SERVIÇO DE TERRAPLENAGEM - PI km 575+100																								
Estaca	LADO ESQUERDO												EIXO				LADO DIREITO							
	OFFSET			FOLGA			OFFSET SUBBASE			BORDO PISTA			COTAS				BORDO PISTA			OFFSET SUBBASE			OFFSET		
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)
2400+10,470	-22,614	790,824	100,00	-16,930	785,141	13,57	-14,155	785,171	-2,00	-13,430	785,186	-2,00	790,405	785,454	785,884	-4,521	8,064	785,293	-2,00	8,789	785,279	-2,00	16,279	789,963	100,00
2401+0,000	-7,149	790,606	muro				-5,825	785,386	-2,00	-5,100	785,400	-2,00	790,603	785,502	785,932	-4,671	5,100	785,400	-2,00	5,825	785,386	-2,00	7,100	785,730	muro
2401+10,000	-7,149	790,656	muro				-5,825	785,436	-2,00	-5,100	785,450	-2,00	790,945	785,552	785,982	-4,963	5,100	785,450	-2,00	5,825	785,436	-2,00	7,100	785,780	muro
2402+0,000	-7,116	787,410	muro				-5,825	785,486	-2,00	-5,100	785,500	-2,00	788,521	785,602	786,032	-2,489	5,100	785,500	-2,00	5,825	785,486	-2,00	7,100	785,830	muro
2402+10,000	-7,116	787,460	muro				-5,825	785,536	-2,00	-5,100	785,550	-2,00	786,400	785,652	786,082	-0,318	5,100	785,550	-2,00	5,825	785,536	-2,00	7,100	785,880	muro
2402+12,788	-7,116	787,474	muro				-5,825	785,550	-2,00	-5,100	785,564	-2,00	786,238	785,666	786,096	-0,142	5,100	785,564	-2,00	5,825	785,550	-2,00	7,100	785,894	muro

NOTA DE SERVIÇO DE PAVIMENTAÇÃO - PI km 575+100																						
Estaca	LADO ESQUERDO									EIXO				LADO DIREITO								
	OFFSET			FOLGA			BORDO PISTA			COTAS				BORDO PISTA			OFFSET					
	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)	TERRENO	TERRAP.	PROJETO	COTA VERMELHA	DIST. (m)	COTA	Incl. (%)	DIST. (m)	COTA	Incl. (%)			
2400+10,470	-22,614	790,824	100,00	-16,930	785,141	13,57	-13,430	785,616	-2,00	790,405	785,454	785,884	-4,521	8,064	785,723	-2,00	16,279	789,963	100,00			
2401+0,000	-7,149	790,606	muro				-5,100	785,830	-2,00	790,603	785,502	785,932	-4,671	5,100	785,830	-2,00	7,100	785,730	muro			
2401+10,000	-7,149	790,656	muro				-5,100	785,880	-2,00	790,945	785,552	785,982	-4,963	5,100	785,880	-2,00	7,100	785,780	muro			
2402+0,000	-7,116	787,410	muro				-5,100	785,930	-2,00	788,521	785,602	786,032	-2,489	5,100	785,930	-2,00	7,100	785,830	muro			
2402+10,000	-7,116	787,460	muro				-5,100	785,980	-2,00	786,400	785,652	786,082	-0,318	5,100	785,980	-2,00	7,100	785,880	muro			
2402+12,788	-7,116	787,474	muro				-5,100	785,994	-2,00	786,238	785,666	786,096	-0,142	5,100	785,994	-2,00	7,100	785,894	muro			

1.4 Volumes de terraplenagem

Os volumes de terraplenagem foram calculados a partir das seções transversais. Após definição do greide de projeto, as seções foram gabaritadas de acordo com a seção transversal tipo, possibilitando a planimetria das áreas correspondentes de corte e aterro.

Pelo produto da soma das áreas acumuladas de seções contíguas e a semi-distância entre as mesmas, obtiveram-se os volumes. No cálculo do volume dos materiais necessários a confecção dos aterros, o fator de empolamento empregado é de 25%.

A seguir estão apresentadas as planilhas dos volumes de terraplenagem:

1.4.1 BR-277 – Pista direita

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.726,50		9,29	5,79																	
28.727,00	5,00	8,85	5,11	2,11	90,69	0,36	18,14	43,23	25,09	43,23	1,80	1,80	32,68	0,00	40,85	25,09	40,85	-15,76	25,09	-15,76
28.727,50	5,00	8,39	4,38	2,22	86,20	0,52	17,24	50,11	32,87	50,11	4,40	4,40	28,46	0,00	35,57	57,95	76,42	-18,46	32,87	-2,71
28.728,00	5,00	8,03	3,60	2,13	82,12	0,63	16,42	45,69	29,27	45,69	5,75	5,75	23,94	0,00	29,93	87,22	106,34	-19,12	29,27	-0,66
28.728,50	5,00	8,30	3,60	1,96	81,64	0,71	16,33	42,05	25,73	42,05	6,70	6,70	21,60	0,00	27,00	112,95	133,35	-20,40	25,73	-1,28
28.728,92	4,20	8,50	3,60	1,81	70,56	0,94	14,11	33,98	19,87	33,98	6,93	6,93	18,15	0,00	22,68	132,81	156,03	-23,21	19,87	-2,81
28.729,00	0,80	8,55	3,60	1,78	13,63	0,99	2,73	6,32	3,60	6,32	1,54	1,54	3,45	0,00	4,32	136,41	160,35	-23,93	3,60	-0,72
28.729,50	5,00	8,67	3,60	1,61	86,10	1,21	17,22	38,55	21,33	38,55	11,00	11,00	21,60	0,00	27,00	157,74	187,35	-29,60	21,33	-5,67
28.730,00	5,00	8,62	3,60	1,54	86,47	1,18	17,29	37,35	20,06	37,35	11,95	11,95	21,60	0,00	27,00	177,80	214,35	-36,55	20,06	-6,94
28.730,50	5,00	8,57	3,60	1,38	85,96	1,26	17,19	36,20	19,01	36,20	12,20	12,20	21,60	0,00	27,00	196,81	241,35	-44,54	19,01	-7,99
28.731,00	5,00	8,43	3,60	1,12	84,99	1,06	17,00	34,10	17,10	34,10	11,60	11,60	21,60	0,00	27,00	213,91	268,35	-54,44	17,10	-9,90
28.731,50	5,00	7,93	3,60	1,00	81,79	0,71	16,36	32,20	15,84	32,20	8,85	8,85	21,60	0,00	27,00	229,75	295,35	-65,60	15,84	-11,16
28.732,00	5,00	7,97	4,14	1,48	79,48	0,37	15,90	35,63	19,73	35,63	5,40	5,40	23,23	0,00	29,04	249,48	324,38	-74,90	19,73	-9,30
28.732,28	2,77	8,62	4,51	1,11	45,87	0,56	9,17	21,52	12,35	21,52	2,57	2,57	14,36	0,00	17,94	261,83	342,33	-80,50	12,35	-5,60
28.732,28	0,00	8,62	4,51	1,11	0,03	0,56	0,01	0,01	0,01	0,01	0,00	0,00	0,01	0,00	0,01	261,84	342,34	-80,50	0,01	0,00
28.732,50	2,23	8,63	4,80	1,46	38,51	0,38	7,70	18,21	10,51	18,21	2,10	2,10	12,47	0,00	15,59	272,34	357,92	-85,58	10,51	-5,08
28.733,00	5,00	9,09	5,43	1,98	88,58	0,28	17,72	47,88	30,17	47,88	3,30	3,30	30,68	0,00	38,36	302,51	396,28	-93,77	30,17	-8,19
28.733,50	5,00	9,65	6,00	2,28	93,69	0,27	18,74	55,58	36,84	55,58	2,75	2,75	34,28	0,00	42,85	339,35	439,13	-99,78	36,84	-6,01
28.734,00	5,00	10,35	6,52	2,37	100,04	0,37	20,01	60,83	40,82	60,83	3,20	3,20	37,58	0,00	46,97	380,17	486,10	-105,93	40,82	-6,15
28.734,50	5,00	10,30	7,00	2,89	103,27	0,12	20,65	66,87	46,21	66,87	2,45	2,45	40,57	0,00	50,71	426,38	536,81	-110,42	46,21	-4,49
28.735,00	5,00	10,97	7,42	2,70	106,34	0,23	21,27	71,21	49,94	71,21	1,75	1,75	43,26	0,00	54,07	476,32	590,88	-114,56	49,94	-4,13
28.735,50	5,00	11,23	7,80	3,59	110,98	0,16	22,20	77,10	54,90	77,10	1,95	1,95	45,65	0,00	57,06	531,22	647,94	-116,71	54,90	-2,16

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.735,63	1,33	11,41	7,89	3,43	30,17	0,20	6,03	21,90	15,87	21,90	0,48	0,48	12,54	0,00	15,68	547,09	663,61	-116,53	15,68	0,19
28.736,00	3,67	12,09	8,12	2,62	86,17	0,48	17,23	57,40	40,16	57,40	2,49	2,49	35,21	0,00	44,02	587,25	707,63	-120,38	40,16	-3,85
28.736,50	5,00	12,40	8,39	2,64	122,44	0,47	24,49	75,83	51,34	75,83	4,75	4,75	49,53	0,00	61,91	638,59	769,54	-130,95	51,34	-10,57
28.737,00	5,00	12,57	8,62	2,90	124,81	0,44	24,96	78,72	53,76	78,72	4,55	4,55	51,02	0,00	63,78	692,35	833,32	-140,97	53,76	-10,02
28.737,50	5,00	12,61	8,79	3,19	125,87	0,36	25,17	82,66	57,49	82,66	4,00	4,00	52,21	0,00	65,27	749,84	898,58	-148,74	57,49	-7,78
28.738,00	5,00	12,71	8,91	3,20	126,59	0,27	25,32	85,05	59,73	85,05	3,15	3,15	53,10	0,00	66,38	809,57	964,96	-155,39	59,73	-6,64
28.738,50	5,00	12,51	8,99	6,41	126,08	0,04	25,22	101,74	76,53	101,74	1,55	1,55	53,69	0,00	67,12	886,10	1.032,08	-145,98	67,12	9,41
28.738,99	4,90	10,85	7,80	6,57	114,40	0,00	22,88	112,92	90,04	112,92	0,20	0,20	49,34	0,00	61,67	976,14	1.093,75	-117,61	61,67	28,37
28.739,00	0,10	10,85	7,80	6,54	2,20	0,00	0,44	2,28	1,84	2,28	0,00	0,00	0,95	0,00	1,19	977,98	1.094,94	-116,96	1,19	0,65
28.740,00	10,00	10,91	7,80	4,36	217,61	0,04	43,52	202,60	159,08	202,60	0,40	0,40	93,60	0,00	117,00	1.137,06	1.211,94	-74,88	117,00	42,08
28.741,00	10,00	11,58	7,80	7,23	224,95	0,00	44,99	209,50	164,51	209,50	0,40	0,40	93,60	0,00	117,00	1.301,57	1.328,94	-27,37	117,00	47,51
28.742,00	10,00	12,25	7,80	9,58	238,29	0,00	47,66	261,70	214,04	261,70	0,00	0,00	93,60	0,00	117,00	1.515,61	1.445,94	69,67	117,00	97,04
28.743,00	10,00	12,69	7,80	9,04	249,39	0,00	49,88	279,80	229,92	279,80	0,00	0,00	93,60	0,00	117,00	1.745,53	1.562,94	182,60	117,00	112,92
28.744,00	10,00	13,31	8,62	8,45	260,05	0,00	52,01	273,41	221,40	273,41	0,00	0,00	98,51	0,00	123,14	1.966,94	1.686,08	280,86	123,14	98,26
28.745,00	10,00	13,87	9,65	8,80	271,86	0,00	54,37	282,10	227,73	282,10	0,00	0,00	109,60	0,00	137,00	2.194,67	1.823,08	371,58	137,00	90,73
28.746,00	10,00	15,01	10,68	7,88	288,81	0,00	57,76	288,74	230,98	288,74	0,00	0,00	121,94	0,00	152,43	2.425,65	1.975,51	450,14	152,43	78,55
28.747,00	10,00	15,62	11,71	4,54	306,34	0,00	61,27	258,49	197,22	258,49	0,00	0,00	134,29	0,00	167,86	2.622,87	2.143,37	479,50	167,86	29,36
28.748,00	10,00	15,22	11,71	2,52	308,49	0,31	61,70	211,06	149,36	211,06	3,10	3,10	140,46	0,00	175,58	2.772,23	2.318,94	453,28	149,36	-26,21
28.749,00	10,00	16,53	12,62	1,06	317,59	1,22	63,52	181,73	118,21	181,73	15,30	15,30	145,93	0,00	182,41	2.890,44	2.501,35	389,09	118,21	-64,20
28.750,00	10,00	9,61	8,11	0,15	261,39	8,96	52,28	136,43	84,15	136,43	101,80	101,80	124,33	0,00	155,41	2.974,59	2.656,76	317,83	84,15	-71,26
28.751,00	10,00	9,61	8,11	0,00	192,10	12,03	38,42	1,50	0,00	38,42	209,90	248,32	97,26	151,06	310,40	2.974,59	2.967,16	7,43	0,00	-310,40
28.752,00	10,00	9,61	8,11	0,00	192,10	17,73	38,42	0,00	0,00	38,42	297,60	336,02	97,26	238,76	420,03	2.974,59	3.387,18	-412,60	0,00	-420,03
28.753,00	10,00	9,61	8,11	0,00	192,10	22,51	38,42	0,00	0,00	38,42	402,40	440,82	97,26	343,56	551,03	2.974,59	3.938,21	-963,62	0,00	-551,03
28.754,00	10,00	9,61	8,11	0,00	192,10	31,28	38,42	0,00	0,00	38,42	537,90	576,32	97,26	479,06	720,40	2.974,59	4.658,61	-1.684,02	0,00	-720,40

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.755,00	10,00	9,61	8,11	0,00	192,10	46,73	38,42	0,00	0,00	38,42	780,10	818,52	97,26	721,26	1.023,15	2.974,59	5.681,76	-2.707,17	0,00	-1.023,15
28.756,00	10,00	9,61	8,11	0,00	192,10	47,46	38,42	0,00	0,00	38,42	941,90	980,32	97,26	883,06	1.225,40	2.974,59	6.907,16	-3.932,57	0,00	-1.225,40
28.757,00	10,00	22,00	8,11	0,00	316,06	55,60	63,21	0,00	0,00	63,21	1.030,60	1.093,81	97,26	996,55	1.367,27	2.974,59	8.274,42	-5.299,84	0,00	-1.367,27
28.758,00	10,00	22,75	8,11	0,00	447,50	58,63	89,50	0,00	0,00	89,50	1.142,30	1.231,80	97,26	1.134,54	1.539,75	2.974,59	9.814,17	-6.839,59	0,00	-1.539,75
28.759,00	10,00	21,69	8,11	0,00	444,40	55,52	88,88	0,00	0,00	88,88	1.141,50	1.230,38	97,26	1.133,12	1.537,97	2.974,59	11.352,15	-8.377,56	0,00	-1.537,97
28.760,00	10,00	20,44	8,11	0,00	421,31	46,97	84,26	0,00	0,00	84,26	1.024,90	1.109,16	97,26	1.011,90	1.386,45	2.974,59	12.738,60	-9.764,02	0,00	-1.386,45
28.761,00	10,00	19,37	8,11	0,00	398,13	40,88	79,63	0,00	0,00	79,63	878,50	958,13	97,26	860,87	1.197,66	2.974,59	13.936,26	-10.961,67	0,00	-1.197,66
28.762,00	10,00	18,50	8,11	0,00	378,76	40,50	75,75	0,00	0,00	75,75	813,80	889,55	97,26	792,29	1.111,94	2.974,59	15.048,20	-12.073,61	0,00	-1.111,94
28.763,00	10,00	17,68	8,11	0,00	361,86	32,66	72,37	0,00	0,00	72,37	731,60	803,97	97,26	706,71	1.004,96	2.974,59	16.053,16	-13.078,58	0,00	-1.004,96
28.764,00	10,00	16,95	8,11	0,00	346,34	27,09	69,27	0,00	0,00	69,27	597,50	666,77	97,26	569,51	833,46	2.974,59	16.886,62	-13.912,04	0,00	-833,46
28.765,00	10,00	15,80	8,11	0,10	327,48	19,81	65,50	98,26	32,76	98,26	469,00	469,00	97,26	371,74	586,25	3.007,35	17.472,87	-14.465,52	32,76	-553,49
28.766,00	10,00	14,66	8,11	0,37	304,57	6,99	60,91	101,96	41,05	101,96	268,00	268,00	97,26	170,74	335,00	3.048,40	17.807,87	-14.759,48	41,05	-293,95
28.767,00	10,00	12,90	8,11	1,21	275,60	1,45	55,12	113,06	57,94	113,06	84,40	84,40	97,26	0,00	121,58	3.106,34	17.929,45	-14.823,11	57,94	-63,64
28.768,00	10,00	17,06	12,19	2,40	299,59	1,91	59,92	157,86	97,94	157,86	33,60	33,60	121,76	0,00	152,20	3.204,27	18.081,64	-14.877,37	97,94	-54,26
28.769,00	10,00	14,77	11,71	3,19	318,29	0,01	63,66	199,26	135,60	199,26	19,20	19,20	143,36	0,00	179,20	3.339,87	18.260,84	-14.920,97	135,60	-43,60
28.770,00	10,00	15,33	11,71	5,79	301,00	0,00	60,20	230,26	170,06	230,26	0,10	0,10	140,46	0,00	175,58	3.509,93	18.436,42	-14.926,48	170,06	-5,51
28.771,00	10,00	15,78	11,71	9,36	311,13	0,00	62,23	291,96	229,73	291,96	0,00	0,00	140,46	0,00	175,58	3.739,67	18.611,99	-14.872,32	175,58	54,16
28.772,00	10,00	16,01	11,71	10,59	317,93	0,00	63,59	339,96	276,37	339,96	0,00	0,00	140,46	0,00	175,58	4.016,04	18.787,57	-14.771,52	175,58	100,80
28.773,00	10,00	16,30	11,71	10,98	323,13	0,00	64,63	356,16	291,53	356,16	0,00	0,00	140,46	0,00	175,58	4.307,58	18.963,14	-14.655,57	175,58	115,96
28.774,00	10,00	16,55	11,71	10,98	328,54	0,00	65,71	360,06	294,35	360,06	0,00	0,00	140,46	0,00	175,58	4.601,93	19.138,72	-14.536,79	175,58	118,78
28.775,00	10,00	14,90	10,68	7,27	314,53	0,00	62,91	316,79	253,88	316,79	0,00	0,00	134,29	0,00	167,86	4.855,81	19.306,57	-14.450,76	167,86	86,02

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.776,00	10,00	13,21	9,65	3,17	281,14	0,28	56,23	226,34	170,12	226,34	2,80	2,80	121,94	0,00	152,43	5.025,93	19.459,00	-14.433,08	152,43	17,69
28.777,00	10,00	12,46	8,62	1,35	256,69	2,41	51,34	154,80	103,46	154,80	26,90	26,90	109,60	0,00	137,00	5.129,39	19.596,01	-14.466,62	103,46	-33,54
28.778,00	10,00	12,12	8,11	1,18	245,74	4,12	49,15	125,64	76,50	125,64	65,30	65,30	100,34	0,00	125,43	5.205,89	19.721,44	-14.515,55	76,50	-48,93
28.779,00	10,00	12,26	8,11	1,25	243,71	5,23	48,74	121,56	72,82	121,56	93,50	93,50	97,26	0,00	121,58	5.278,70	19.843,01	-14.564,31	72,82	-48,76
28.780,00	10,00	12,51	8,11	1,55	247,67	5,70	49,53	125,26	75,73	125,26	109,30	109,30	97,26	12,04	136,63	5.354,43	19.979,64	-14.625,21	75,73	-60,90
28.781,00	10,00	12,67	8,11	1,22	251,79	6,21	50,36	124,96	74,60	124,96	119,10	119,10	97,26	21,84	148,88	5.429,03	20.128,51	-14.699,48	74,60	-74,27
28.782,00	10,00	12,85	8,11	1,32	255,20	5,93	51,04	122,66	71,62	122,66	121,40	121,40	97,26	24,14	151,75	5.500,65	20.280,26	-14.779,61	71,62	-80,13
28.783,00	10,00	13,15	8,11	1,42	260,07	5,32	52,01	124,66	72,65	124,66	112,50	112,50	97,26	15,24	140,63	5.573,30	20.420,89	-14.847,59	72,65	-67,98
28.784,00	10,00	13,22	8,11	0,87	263,71	4,83	52,74	120,16	67,42	120,16	101,50	101,50	97,26	4,24	126,88	5.640,72	20.547,76	-14.907,05	67,42	-59,46
28.785,00	10,00	12,73	8,11	0,80	259,48	4,39	51,90	113,96	62,06	113,96	92,20	92,20	97,26	0,00	121,58	5.702,78	20.669,34	-14.966,56	62,06	-59,51
28.786,00	10,00	12,99	8,11	0,74	257,19	4,51	51,44	112,66	61,22	112,66	89,00	89,00	97,26	0,00	121,58	5.764,00	20.790,91	-15.026,91	61,22	-60,35
28.787,00	10,00	12,94	8,11	1,36	259,29	3,64	51,86	118,26	66,40	118,26	81,50	81,50	97,26	0,00	121,58	5.830,40	20.912,49	-15.082,08	66,40	-55,17
28.788,00	10,00	13,21	8,11	1,97	261,51	2,20	52,30	130,56	78,26	130,56	58,40	58,40	97,26	0,00	121,58	5.908,66	21.034,06	-15.125,40	78,26	-43,32
28.789,00	10,00	12,68	8,11	3,89	258,91	0,78	51,78	155,86	104,08	155,86	29,80	29,80	97,26	0,00	121,58	6.012,74	21.155,64	-15.142,90	104,08	-17,50
28.790,00	10,00	11,71	8,11	5,16	243,93	0,19	48,79	187,76	138,97	187,76	9,70	9,70	97,26	0,00	121,58	6.151,71	21.277,21	-15.125,50	121,58	17,40
28.791,00	10,00	11,68	8,11	6,18	233,91	0,00	46,78	210,66	163,88	210,66	1,90	1,90	97,26	0,00	121,58	6.315,59	21.398,79	-15.083,19	121,58	42,30
28.792,00	10,00	11,96	8,11	7,19	236,43	0,00	47,29	230,96	183,67	230,96	0,00	0,00	97,26	0,00	121,58	6.499,27	21.520,36	-15.021,09	121,58	62,10
28.793,00	10,00	12,14	8,11	9,68	241,06	0,00	48,21	265,96	217,75	265,96	0,00	0,00	97,26	0,00	121,58	6.717,01	21.641,94	-14.924,92	121,58	96,17
28.794,00	10,00	12,18	8,11	9,45	243,21	0,00	48,64	288,56	239,92	288,56	0,00	0,00	97,26	0,00	121,58	6.956,93	21.763,51	-14.806,58	121,58	118,34
28.795,00	10,00	12,09	8,11	9,06	242,73	0,00	48,55	282,36	233,81	282,36	0,00	0,00	97,26	0,00	121,58	7.190,74	21.885,09	-14.694,34	121,58	112,24
28.796,00	10,00	12,01	8,11	8,41	241,05	0,00	48,21	271,96	223,75	271,96	0,00	0,00	97,26	0,00	121,58	7.414,49	22.006,66	-14.592,17	121,58	102,17
28.797,00	10,00	11,91	8,11	6,02	239,24	0,93	47,85	241,56	193,71	241,56	9,30	9,30	97,26	0,00	121,58	7.608,21	22.128,24	-14.520,03	121,58	72,14
28.798,00	10,00	11,85	8,11	7,32	237,61	0,00	47,52	230,66	183,14	230,66	9,30	9,30	97,26	0,00	121,58	7.791,34	22.249,81	-14.458,47	121,58	61,56
28.799,00	10,00	11,77	8,11	5,96	236,16	0,00	47,23	230,06	182,83	230,06	0,00	0,00	97,26	0,00	121,58	7.974,17	22.371,39	-14.397,21	121,58	61,25

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.800,00	10,00	11,65	8,11	4,59	234,15	0,00	46,83	202,76	155,93	202,76	0,00	0,00	97,26	0,00	121,58	8.130,10	22.492,96	-14.362,86	121,58	34,36
28.801,00	10,00	11,19	8,11	3,44	228,38	0,03	45,68	177,56	131,88	177,56	0,30	0,30	97,26	0,00	121,58	8.261,99	22.614,54	-14.352,55	121,58	10,31
28.802,00	10,00	11,38	8,11	2,98	225,68	0,14	45,14	161,46	116,32	161,46	1,70	1,70	97,26	0,00	121,58	8.378,31	22.736,11	-14.357,80	116,32	-5,25
28.803,00	10,00	12,60	8,11	4,48	239,72	0,41	47,94	171,86	123,92	171,86	5,50	5,50	97,26	0,00	121,58	8.502,23	22.857,69	-14.355,46	121,58	2,34
28.804,00	10,00	13,52	8,11	4,08	261,12	1,06	52,22	182,86	130,64	182,86	14,70	14,70	97,26	0,00	121,58	8.632,86	22.979,26	-14.346,40	121,58	9,06
28.805,00	10,00	15,55	8,11	2,81	290,71	7,99	58,14	166,16	108,02	166,16	90,50	90,50	97,26	0,00	121,58	8.740,88	23.100,84	-14.359,96	108,02	-13,56
28.806,00	10,00	16,18	8,11	2,00	317,35	13,26	63,47	145,36	81,89	145,36	212,50	212,50	97,26	115,24	265,63	8.822,77	23.366,46	-14.543,69	81,89	-183,73
28.807,00	10,00	18,96	7,80	1,35	351,39	22,58	70,28	128,93	58,65	128,93	358,40	358,40	95,43	262,97	448,00	8.881,42	23.814,46	-14.933,04	58,65	-389,35
28.808,00	10,00	19,38	7,80	1,44	383,37	20,89	76,67	121,50	44,83	121,50	434,70	434,70	93,60	341,10	543,38	8.926,25	24.357,84	-15.431,59	44,83	-498,55
28.808,38	3,82	19,41	7,80	1,56	148,04	20,37	29,61	47,18	17,57	47,18	157,49	157,49	35,73	121,76	196,86	8.943,82	24.554,70	-15.610,88	17,57	-179,29
28.808,50	1,18	19,41	7,80	1,62	45,92	20,14	9,18	14,83	5,65	14,83	47,92	47,92	11,07	36,85	59,90	8.949,47	24.614,60	-15.665,13	5,65	-54,25
28.809,00	5,00	19,43	7,80	1,98	194,23	19,00	38,85	64,80	25,95	64,80	195,70	195,70	46,80	148,90	244,63	8.975,42	24.859,23	-15.883,80	25,95	-218,67
28.809,50	5,00	19,27	7,80	2,15	193,51	17,54	38,70	67,45	28,75	67,45	182,70	182,70	46,80	135,90	228,38	9.004,17	25.087,60	-16.083,43	28,75	-199,63
28.810,00	5,00	19,05	7,80	2,29	191,59	15,92	38,32	69,00	30,68	69,00	167,30	167,30	46,80	120,50	209,13	9.034,85	25.296,73	-16.261,88	30,68	-178,44
28.810,50	5,00	18,79	7,80	2,38	189,21	14,21	37,84	70,15	32,31	70,15	150,65	150,65	46,80	103,85	188,31	9.067,16	25.485,04	-16.417,88	32,31	-156,00
28.811,00	5,00	18,51	7,80	2,78	186,53	12,40	37,31	72,60	35,29	72,60	133,05	133,05	46,80	86,25	166,31	9.102,45	25.651,35	-16.548,90	35,29	-131,02
28.811,50	5,00	18,23	7,80	3,21	183,72	10,65	36,74	76,75	40,01	76,75	115,25	115,25	46,80	68,45	144,06	9.142,46	25.795,42	-16.652,95	40,01	-104,06
28.812,00	5,00	17,98	7,80	3,75	181,04	8,63	36,21	81,60	45,39	81,60	96,40	96,40	46,80	49,60	120,50	9.187,85	25.915,92	-16.728,06	45,39	-75,11
28.812,50	5,00	18,07	8,19	4,19	180,22	6,77	36,04	87,66	51,62	87,66	77,00	77,00	47,96	29,04	96,25	9.239,47	26.012,17	-16.772,70	51,62	-44,63
28.813,00	5,00	17,95	8,62	4,54	180,11	4,13	36,02	94,06	58,04	94,06	54,50	54,50	50,41	4,09	68,13	9.297,51	26.080,29	-16.782,78	58,04	-10,09
28.813,50	5,00	18,15	9,09	4,65	180,54	3,93	36,11	99,06	62,95	99,06	40,30	40,30	53,11	0,00	66,39	9.360,46	26.146,68	-16.786,22	62,95	-3,44
28.814,00	5,00	18,60	9,60	4,66	183,78	3,97	36,76	102,62	65,86	102,62	39,50	39,50	56,07	0,00	70,09	9.426,33	26.216,77	-16.790,44	65,86	-4,22
28.814,50	5,00	19,17	10,16	5,01	188,88	3,66	37,78	107,63	69,86	107,63	38,15	38,15	59,28	0,00	74,10	9.496,18	26.290,87	-16.794,69	69,86	-4,25
28.815,00	5,00	19,76	10,76	5,32	194,69	3,49	38,94	114,40	75,46	114,40	35,75	35,75	62,75	0,00	78,44	9.571,65	26.369,31	-16.797,66	75,46	-2,98

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.815,50	5,00	20,42	11,40	5,48	200,92	3,66	40,18	120,47	80,29	120,47	35,75	35,75	66,47	0,00	83,09	9.651,94	26.452,40	-16.800,47	80,29	-2,80
28.816,00	5,00	20,34	11,40	5,54	203,83	3,47	40,77	123,50	82,73	123,50	35,65	35,65	68,40	0,00	85,50	9.734,67	26.537,90	-16.803,23	82,73	-2,77
28.816,50	5,00	20,05	11,40	5,67	201,98	2,15	40,40	124,45	84,05	124,45	28,10	28,10	68,40	0,00	85,50	9.818,72	26.623,40	-16.804,68	84,05	-1,45
28.817,00	5,00	19,40	11,40	6,48	197,28	0,81	39,46	129,15	89,69	129,15	14,80	14,80	68,40	0,00	85,50	9.908,42	26.708,90	-16.800,48	85,50	4,19
28.817,50	5,00	12,89	7,80	6,13	161,44	0,00	32,29	120,65	88,36	120,65	4,05	4,05	57,60	0,00	72,00	9.996,78	26.780,90	-16.784,12	72,00	16,36
28.818,00	5,00	12,86	7,80	6,04	128,73	0,00	25,75	107,65	81,90	107,65	0,00	0,00	46,80	0,00	58,50	10.078,68	26.839,40	-16.760,72	58,50	23,40
28.818,50	5,00	14,91	7,80	7,27	138,83	0,24	27,77	113,35	85,58	113,35	1,20	1,20	46,80	0,00	58,50	10.164,27	26.897,90	-16.733,64	58,50	27,08
28.819,00	5,00	14,88	7,80	6,76	148,92	0,26	29,78	116,95	87,17	116,95	2,50	2,50	46,80	0,00	58,50	10.251,43	26.956,40	-16.704,97	58,50	28,67
28.819,50	5,00	14,72	7,80	6,97	147,98	0,21	29,60	115,45	85,85	115,45	2,35	2,35	46,80	0,00	58,50	10.337,29	27.014,90	-16.677,61	58,50	27,35
28.820,00	5,00	14,18	7,80	7,04	144,46	0,14	28,89	116,85	87,96	116,85	1,75	1,75	46,80	0,00	58,50	10.425,25	27.073,40	-16.648,16	58,50	29,46
28.820,04	0,36	14,16	7,80	7,04	10,06	0,13	2,01	8,32	6,31	8,32	0,10	0,10	3,32	0,00	4,15	10.431,56	27.077,56	-16.646,00	4,15	2,16
28.820,50	4,64	12,45	7,80	7,22	123,61	0,05	24,72	109,71	84,99	109,71	0,84	0,84	43,48	0,00	54,35	10.516,55	27.131,90	-16.615,36	54,35	30,65
28.821,00	5,00	14,39	7,80	7,55	134,21	0,01	26,84	120,65	93,81	120,65	0,30	0,30	46,80	0,00	58,50	10.610,36	27.190,40	-16.580,05	58,50	35,31
28.821,50	5,00	14,59	7,80	7,37	144,91	0,03	28,98	121,40	92,42	121,40	0,20	0,20	46,80	0,00	58,50	10.702,77	27.248,90	-16.546,13	58,50	33,92
28.822,00	5,00	14,67	7,80	7,20	146,30	0,05	29,26	119,65	90,39	119,65	0,40	0,40	46,80	0,00	58,50	10.793,16	27.307,40	-16.514,24	58,50	31,89
28.822,50	5,00	14,58	7,80	7,02	146,21	0,05	29,24	117,90	88,66	117,90	0,50	0,50	46,80	0,00	58,50	10.881,82	27.365,90	-16.484,08	58,50	30,16
28.823,00	5,00	14,03	7,80	6,51	143,01	0,08	28,60	114,45	85,85	114,45	0,65	0,65	46,80	0,00	58,50	10.967,67	27.424,40	-16.456,73	58,50	27,35
28.823,50	5,00	14,11	7,80	6,27	140,69	0,11	28,14	110,70	82,56	110,70	0,95	0,95	46,80	0,00	58,50	11.050,23	27.482,90	-16.432,67	58,50	24,06
28.824,00	5,00	14,18	7,80	6,31	141,47	0,14	28,29	109,70	81,41	109,70	1,25	1,25	46,80	0,00	58,50	11.131,64	27.541,40	-16.409,77	58,50	22,91
28.824,50	5,00	14,33	7,80	6,27	142,56	0,21	28,51	109,70	81,19	109,70	1,75	1,75	46,80	0,00	58,50	11.212,82	27.599,90	-16.387,08	58,50	22,69
28.825,00	5,00	14,58	7,80	5,98	144,57	0,31	28,91	108,05	79,14	108,05	2,60	2,60	46,80	0,00	58,50	11.291,96	27.658,40	-16.366,44	58,50	20,64
28.825,50	5,00	14,60	7,80	5,81	145,91	0,32	29,18	105,75	76,57	105,75	3,15	3,15	46,80	0,00	58,50	11.368,53	27.716,90	-16.348,37	58,50	18,07
28.826,00	5,00	14,43	7,80	6,02	145,16	0,22	29,03	105,95	76,92	105,95	2,70	2,70	46,80	0,00	58,50	11.445,45	27.775,40	-16.329,96	58,50	18,42
28.826,50	5,00	14,59	7,80	5,28	145,12	0,31	29,02	103,30	74,28	103,30	2,65	2,65	46,80	0,00	58,50	11.519,72	27.833,90	-16.314,18	58,50	15,78

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.827,00	5,00	12,65	7,80	4,27	136,20	0,13	27,24	94,55	67,31	94,55	2,20	2,20	46,80	0,00	58,50	11.587,03	27.892,40	-16.305,37	58,50	8,81
28.827,50	5,00	12,70	7,80	4,29	126,77	0,14	25,35	89,60	64,25	89,60	1,35	1,35	46,80	0,00	58,50	11.651,28	27.950,90	-16.299,62	58,50	5,75
28.828,00	5,00	12,77	7,80	4,01	127,37	0,17	25,47	88,30	62,83	88,30	1,55	1,55	46,80	0,00	58,50	11.714,11	28.009,40	-16.295,30	58,50	4,33
28.828,50	5,00	12,77	7,80	3,88	127,72	0,18	25,54	86,25	60,71	86,25	1,75	1,75	46,80	0,00	58,50	11.774,81	28.067,90	-16.293,09	58,50	2,21
28.829,00	5,00	12,76	7,80	4,03	127,65	0,17	25,53	86,35	60,82	86,35	1,75	1,75	46,80	0,00	58,50	11.835,63	28.126,40	-16.290,77	58,50	2,32
28.829,50	5,00	12,74	7,80	4,22	127,47	0,16	25,49	88,05	62,56	88,05	1,65	1,65	46,80	0,00	58,50	11.898,19	28.184,90	-16.286,71	58,50	4,06
28.830,00	5,00	12,72	7,80	4,31	127,29	0,16	25,46	89,45	63,99	89,45	1,60	1,60	46,80	0,00	58,50	11.962,18	28.243,40	-16.281,22	58,50	5,49
28.830,50	5,00	12,68	7,80	4,39	127,00	0,14	25,40	90,30	64,90	90,30	1,50	1,50	46,80	0,00	58,50	12.027,08	28.301,90	-16.274,82	58,50	6,40
28.831,00	5,00	12,70	7,80	4,50	126,90	0,14	25,38	91,25	65,87	91,25	1,40	1,40	46,80	0,00	58,50	12.092,95	28.360,40	-16.267,45	58,50	7,37
28.831,50	5,00	12,79	7,80	4,44	127,47	0,19	25,49	91,50	66,01	91,50	1,65	1,65	46,80	0,00	58,50	12.158,96	28.418,90	-16.259,95	58,50	7,51
28.832,00	5,00	12,79	7,80	1,93	127,93	0,46	25,59	78,65	53,06	78,65	3,25	3,25	46,80	0,00	58,50	12.212,02	28.477,40	-16.265,38	53,06	-5,44
28.933,00	0,00	12,79	7,80	5,92	0,00	0,31	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	12.212,02	28.477,40	-16.265,38	0,00	0,00
28.933,50	5,00	15,23	7,80	4,89	140,12	0,61	28,02	100,85	72,83	100,85	4,60	4,60	46,80	0,00	58,50	12.284,85	28.535,90	-16.251,05	58,50	14,33
28.934,00	5,00	15,21	7,80	5,05	152,21	0,62	30,44	96,50	66,06	96,50	6,15	6,15	46,80	0,00	58,50	12.350,91	28.594,40	-16.243,50	58,50	7,56
28.935,00	10,00	14,68	7,80	5,66	298,92	0,36	59,78	200,70	140,92	200,70	9,80	9,80	93,60	0,00	117,00	12.491,82	28.711,40	-16.219,58	117,00	23,92
28.936,00	10,00	14,34	7,80	6,21	290,21	0,23	58,04	212,30	154,26	212,30	5,90	5,90	93,60	0,00	117,00	12.646,08	28.828,40	-16.182,32	117,00	37,26
28.937,00	10,00	14,55	7,80	6,43	288,85	0,33	57,77	220,00	162,23	220,00	5,60	5,60	93,60	0,00	117,00	12.808,31	28.945,40	-16.137,09	117,00	45,23
28.937,94	9,37	14,32	7,80	7,16	270,37	0,23	54,07	215,00	160,92	215,00	5,25	5,25	87,68	0,00	109,61	12.969,23	29.055,01	-16.085,78	109,61	51,32
28.938,00	0,63	14,30	7,80	7,20	18,08	0,22	3,62	14,99	11,37	14,99	0,28	0,28	5,92	0,00	7,39	12.980,61	29.062,40	-16.081,80	7,39	3,98
28.939,00	10,00	14,23	7,80	8,10	285,27	0,03	57,05	246,60	189,55	246,60	2,50	2,50	93,60	0,00	117,00	13.170,15	29.179,40	-16.009,25	117,00	72,55
28.940,00	10,00	14,16	7,80	8,73	283,94	0,02	56,79	261,90	205,11	261,90	0,50	0,50	93,60	0,00	117,00	13.375,27	29.296,40	-15.921,14	117,00	88,11
28.940,15	1,47	14,21	7,80	8,86	41,73	0,02	8,35	39,64	31,30	39,64	0,06	0,06	13,77	0,00	17,21	13.406,56	29.313,61	-15.907,05	17,21	14,09
28.941,00	8,53	13,51	7,80	8,85	236,43	0,03	47,29	230,88	183,59	230,88	0,43	0,43	79,83	0,00	99,79	13.590,16	29.413,40	-15.823,25	99,79	83,81
28.941,62	6,21	20,00	15,83	11,55	207,98	0,08	41,60	214,59	172,99	214,59	0,68	0,68	87,99	0,00	109,99	13.763,15	29.523,39	-15.760,24	109,99	63,01

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.942,00	3,79	20,86	14,44	11,47	155,03	0,00	31,01	156,24	125,23	156,24	0,30	0,30	68,90	0,00	86,13	13.888,39	29.609,52	-15.721,13	86,13	39,11
28.942,50	5,00	19,60	13,08	9,01	202,32	0,35	40,46	184,94	144,48	184,94	1,75	1,75	82,54	0,00	103,18	14.032,86	29.712,69	-15.679,83	103,18	41,30
28.943,00	5,00	18,66	12,26	8,80	191,29	0,22	38,26	165,07	126,81	165,07	2,85	2,85	76,02	0,00	95,02	14.159,67	29.807,72	-15.648,04	95,02	31,79
28.943,50	5,00	18,95	12,01	7,35	188,05	0,66	37,61	153,58	115,97	153,58	4,40	4,40	72,83	0,00	91,04	14.275,64	29.898,75	-15.623,11	91,04	24,93
28.944,00	5,00	18,74	12,02	7,38	188,45	0,38	37,69	145,75	108,06	145,75	5,20	5,20	72,10	0,00	90,12	14.383,70	29.988,87	-15.605,18	90,12	17,94
28.944,13	1,26	18,97	12,02	6,83	47,36	0,55	9,47	35,96	26,49	35,96	1,17	1,17	18,11	0,00	22,64	14.410,19	30.011,52	-15.601,33	22,64	3,85
28.944,50	3,74	19,46	12,02	6,06	143,90	1,08	28,78	102,25	73,47	102,25	6,10	6,10	53,99	0,00	67,49	14.483,66	30.079,01	-15.595,35	67,49	5,98
28.945,00	5,00	19,47	12,02	5,86	194,65	1,49	38,93	131,71	92,78	131,71	12,85	12,85	72,11	0,00	90,13	14.576,44	30.169,14	-15.592,70	90,13	2,64
28.945,50	5,00	20,47	12,02	6,43	199,67	2,52	39,93	133,55	93,61	133,55	20,05	20,05	72,10	0,00	90,12	14.670,05	30.259,26	-15.589,21	90,12	3,49
28.946,00	5,00	20,30	12,02	6,07	203,85	3,20	40,77	134,60	93,83	134,60	28,60	28,60	72,10	0,00	90,12	14.763,88	30.349,38	-15.585,51	90,12	3,71
28.946,50	5,00	20,76	12,02	4,66	205,33	7,17	41,07	125,74	84,68	125,74	51,85	51,85	72,09	0,00	90,12	14.848,55	30.439,50	-15.590,95	84,68	-5,44
28.947,00	5,00	20,56	12,02	4,99	206,62	5,66	41,32	120,34	79,02	120,34	64,15	64,15	72,09	0,00	90,11	14.927,57	30.529,61	-15.602,04	79,02	-11,10
28.947,50	5,00	21,41	12,01	4,10	209,87	9,41	41,97	117,54	75,56	117,54	75,35	75,35	72,09	3,26	94,19	15.003,13	30.623,80	-15.620,67	75,56	-18,62
28.948,00	5,00	21,61	12,01	4,18	215,13	9,51	43,03	113,48	70,46	113,48	94,60	94,60	72,08	22,52	118,25	15.073,59	30.742,05	-15.668,46	70,46	-47,79
28.948,50	5,00	21,82	12,01	3,56	217,16	13,00	43,43	110,78	67,35	110,78	112,55	112,55	72,08	40,47	140,69	15.140,94	30.882,74	-15.741,80	67,35	-73,34
28.949,00	5,00	21,95	12,01	3,35	218,84	14,62	43,77	106,63	62,86	106,63	138,10	138,10	72,08	66,02	172,63	15.203,80	31.055,36	-15.851,56	62,86	-109,77
28.949,50	5,00	21,97	12,01	3,11	219,58	16,22	43,92	104,38	60,46	104,38	154,20	154,20	72,08	82,13	192,75	15.264,26	31.248,11	-15.983,86	60,46	-132,29
28.950,00	5,00	21,50	12,01	3,52	217,32	10,63	43,46	105,22	61,76	105,22	134,25	134,25	72,07	62,18	167,81	15.326,01	31.415,93	-16.089,91	61,76	-106,05
28.950,50	5,00	21,88	12,01	2,71	216,90	17,78	43,38	103,22	59,84	103,22	142,05	142,05	72,07	69,98	177,56	15.385,85	31.593,49	-16.207,63	59,84	-117,72
28.951,00	5,00	21,70	12,01	3,21	217,92	13,44	43,58	101,67	58,08	101,67	156,10	156,10	72,07	84,03	195,13	15.443,94	31.788,61	-16.344,68	58,08	-137,04
28.951,50	5,00	21,42	12,01	2,55	215,62	13,56	43,12	100,86	57,74	100,86	135,00	135,00	72,06	62,94	168,75	15.501,68	31.957,36	-16.455,69	57,74	-111,01
28.952,00	5,00	21,21	12,01	2,35	213,14	13,53	42,63	96,56	53,93	96,56	135,45	135,45	72,06	63,39	169,31	15.555,61	32.126,68	-16.571,07	53,93	-115,38
28.952,50	5,00	21,04	12,01	2,15	211,24	14,06	42,25	94,56	52,31	94,56	137,95	137,95	72,06	65,89	172,44	15.607,92	32.299,11	-16.691,20	52,31	-120,13
28.952,53	0,35	21,04	12,01	2,10	14,64	14,07	2,93	6,49	3,57	6,49	9,79	9,79	5,01	4,77	12,24	15.611,48	32.311,35	-16.699,87	3,57	-8,67

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.953,00	4,65	20,92	12,01	2,11	195,21	12,54	39,04	86,62	47,58	86,62	123,79	123,79	67,04	56,75	154,74	15.659,06	32.466,09	-16.807,02	47,58	-107,15
28.953,50	5,00	20,78	12,01	2,33	208,52	10,15	41,70	94,25	52,55	94,25	113,45	113,45	72,05	41,40	141,81	15.711,61	32.607,90	-16.896,29	52,55	-89,26
28.954,00	5,00	20,52	12,01	2,65	206,49	8,97	41,30	96,95	55,65	96,95	95,60	95,60	72,05	23,55	119,50	15.767,26	32.727,40	-16.960,14	55,65	-63,85
28.954,50	5,00	20,31	12,01	2,94	204,16	9,61	40,83	100,00	59,16	100,00	92,90	92,90	72,05	20,86	116,13	15.826,43	32.843,52	-17.017,10	59,16	-56,96
28.955,00	5,00	20,53	12,01	2,60	204,21	8,52	40,84	99,74	58,90	99,74	90,65	90,65	72,04	18,61	113,31	15.885,32	32.956,84	-17.071,51	58,90	-54,41
28.955,50	5,00	19,98	12,01	2,79	202,56	4,25	40,51	98,99	58,48	98,99	63,85	63,85	72,04	0,00	90,05	15.943,80	33.046,89	-17.103,08	58,48	-31,57
28.956,00	5,00	20,16	12,01	3,04	200,71	3,25	40,14	101,19	61,04	101,19	37,50	37,50	72,04	0,00	90,05	16.004,84	33.136,93	-17.132,09	61,04	-29,00
28.956,50	5,00	19,51	12,01	3,09	198,36	1,95	39,67	102,68	63,01	102,68	26,00	26,00	72,03	0,00	90,04	16.067,86	33.226,97	-17.159,11	63,01	-27,03
28.957,00	5,00	18,99	12,01	4,15	192,51	0,80	38,50	108,23	69,73	108,23	13,75	13,75	72,03	0,00	90,04	16.137,58	33.317,01	-17.179,42	69,73	-20,31
28.957,50	5,00	18,69	12,00	4,64	188,41	0,37	37,68	115,98	78,30	115,98	5,85	5,85	72,03	0,00	90,03	16.215,88	33.407,04	-17.191,16	78,30	-11,74
28.958,00	5,00	18,29	12,00	5,62	184,89	0,12	36,98	123,32	86,35	123,32	2,45	2,45	72,02	0,00	90,03	16.302,22	33.497,07	-17.194,85	86,35	-3,68
28.958,50	5,00	18,78	12,00	7,22	185,36	0,00	37,07	136,22	99,15	136,22	0,60	0,60	72,02	0,00	90,03	16.401,37	33.587,10	-17.185,73	90,03	9,12
28.959,00	5,00	18,31	12,26	7,56	185,45	0,00	37,09	146,69	109,60	146,69	0,00	0,00	72,79	0,00	90,99	16.510,97	33.678,09	-17.167,11	90,99	18,61
28.959,50	5,00	18,99	12,73	7,77	186,49	0,08	37,30	151,63	114,33	151,63	0,40	0,40	74,98	0,00	93,72	16.625,30	33.771,81	-17.146,50	93,72	20,61
28.960,00	5,00	17,10	13,31	8,27	180,46	0,00	36,09	158,32	122,23	158,32	0,40	0,40	78,12	0,00	97,65	16.747,53	33.869,46	-17.121,93	97,65	24,58
28.960,50	5,00	17,08	13,99	8,93	170,91	0,03	34,18	167,89	133,70	167,89	0,15	0,15	81,89	0,00	102,36	16.881,23	33.971,81	-17.090,58	102,36	31,35
28.960,94	4,44	17,80	14,68	9,45	154,90	0,05	30,98	157,99	127,01	157,99	0,36	0,36	76,37	0,00	95,47	17.008,24	34.067,28	-17.059,04	95,47	31,54
28.961,00	0,56	17,89	14,77	9,46	19,97	0,04	3,99	20,47	16,47	20,47	0,05	0,05	9,89	0,00	12,36	17.024,71	34.079,63	-17.054,92	12,36	4,12
28.961,50	5,00	18,74	15,65	9,47	183,11	0,03	36,62	185,92	149,30	185,92	0,35	0,35	91,27	0,00	114,09	17.174,01	34.193,72	-17.019,71	114,09	35,21
28.962,00	5,00	19,69	16,62	11,15	192,12	0,02	38,42	199,90	161,48	199,90	0,25	0,25	96,80	0,00	121,01	17.335,49	34.314,73	-16.979,24	121,01	40,48
28.962,50	5,00	20,87	17,64	11,71	202,79	0,08	40,56	217,05	176,49	217,05	0,50	0,50	102,75	0,00	128,44	17.511,98	34.443,17	-16.931,18	128,44	48,05
28.963,00	5,00	22,23	18,69	13,31	215,50	0,00	43,10	234,08	190,98	234,08	0,40	0,40	108,98	0,00	136,23	17.702,96	34.579,39	-16.876,43	136,23	54,75
28.963,44	4,44	23,17	19,63	13,61	201,58	0,00	40,32	221,63	181,31	221,63	0,00	0,00	102,09	0,00	127,62	17.884,28	34.707,01	-16.822,73	127,62	53,70
28.964,00	5,56	13,88	10,30	7,74	205,96	0,00	41,19	218,52	177,33	218,52	0,00	0,00	99,83	0,00	124,78	18.061,61	34.831,79	-16.770,18	124,78	52,55

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.964,91	9,15	13,95	10,30	8,25	254,52	0,00	50,90	259,29	208,38	259,29	0,00	0,00	113,04	0,00	141,31	18.269,99	34.973,10	-16.703,11	141,31	67,08
28.965,00	0,85	13,99	10,30	8,40	23,87	0,00	4,77	24,77	20,00	24,77	0,00	0,00	10,56	0,00	13,19	18.290,00	34.986,29	-16.696,30	13,19	6,81
28.966,00	10,00	14,22	10,30	9,11	282,16	0,00	56,43	298,70	242,27	298,70	0,00	0,00	123,60	0,00	154,50	18.532,26	35.140,79	-16.608,53	154,50	87,77
28.967,00	10,00	12,01	7,80	10,05	262,31	0,00	52,46	300,20	247,74	300,20	0,00	0,00	108,60	0,00	135,75	18.780,00	35.276,54	-16.496,54	135,75	111,99
28.967,12	1,21	12,01	7,80	10,10	28,95	0,00	5,79	35,56	29,77	35,56	0,00	0,00	11,28	0,00	14,10	18.809,77	35.290,64	-16.480,87	14,10	15,67
28.968,00	8,79	12,06	7,80	10,37	211,76	0,00	42,35	262,35	220,00	262,35	0,00	0,00	82,32	0,00	102,90	19.029,77	35.393,54	-16.363,77	102,90	117,10
28.969,00	10,00	11,98	7,80	10,13	240,41	0,00	48,08	298,60	250,52	298,60	0,00	0,00	93,60	0,00	117,00	19.280,29	35.510,54	-16.230,25	117,00	133,52
28.970,00	10,00	11,98	7,80	9,46	239,56	0,00	47,91	289,50	241,59	289,50	0,00	0,00	93,60	0,00	117,00	19.521,88	35.627,54	-16.105,67	117,00	124,59
28.971,00	10,00	11,98	7,80	9,79	239,63	0,00	47,93	286,10	238,17	286,10	0,00	0,00	93,60	0,00	117,00	19.760,05	35.744,54	-15.984,49	117,00	121,17
28.972,00	10,00	11,91	7,80	8,93	238,91	0,00	47,78	280,80	233,02	280,80	0,00	0,00	93,60	0,00	117,00	19.993,07	35.861,54	-15.868,47	117,00	116,02
28.973,00	10,00	12,03	7,80	9,87	239,35	0,00	47,87	281,60	233,73	281,60	0,00	0,00	93,60	0,00	117,00	20.226,80	35.978,54	-15.751,74	117,00	116,73
28.974,00	10,00	12,13	7,80	10,91	241,60	0,00	48,32	301,40	253,08	301,40	0,00	0,00	93,60	0,00	117,00	20.479,88	36.095,54	-15.615,66	117,00	136,08
28.975,00	10,00	11,48	7,80	8,09	236,12	0,00	47,22	283,60	236,38	283,60	0,00	0,00	93,60	0,00	117,00	20.716,26	36.212,54	-15.496,29	117,00	119,38
28.976,00	10,00	12,63	7,80	10,60	241,10	0,00	48,22	280,50	232,28	280,50	0,00	0,00	93,60	0,00	117,00	20.948,54	36.329,54	-15.381,01	117,00	115,28
28.977,00	10,00	12,08	7,80	10,05	247,11	0,00	49,42	300,10	250,68	300,10	0,00	0,00	93,60	0,00	117,00	21.199,21	36.446,54	-15.247,33	117,00	133,68
28.978,00	10,00	11,67	7,80	8,64	237,54	0,00	47,51	280,50	232,99	280,50	0,00	0,00	93,60	0,00	117,00	21.432,21	36.563,54	-15.131,34	117,00	115,99
28.979,00	10,00	10,90	7,80	5,76	225,71	0,03	45,14	237,60	192,46	237,60	0,30	0,30	93,60	0,00	117,00	21.624,66	36.680,54	-15.055,88	117,00	75,46
28.980,00	10,00	11,66	7,80	4,55	225,54	0,38	45,11	196,70	151,59	196,70	4,10	4,10	93,60	0,00	117,00	21.776,25	36.797,54	-15.021,29	117,00	34,59
28.981,00	10,00	11,59	7,80	4,49	232,44	0,32	46,49	184,00	137,51	184,00	7,00	7,00	93,60	0,00	117,00	21.913,77	36.914,54	-15.000,78	117,00	20,51
28.982,00	10,00	11,71	7,80	3,00	233,03	0,42	46,61	168,50	121,89	168,50	7,40	7,40	93,60	0,00	117,00	22.035,66	37.031,54	-14.995,88	117,00	4,89
28.983,00	10,00	11,79	7,80	3,05	235,00	0,46	47,00	154,10	107,10	154,10	8,80	8,80	93,60	0,00	117,00	22.142,76	37.148,54	-15.005,79	107,10	-9,90
28.984,00	10,00	11,81	7,80	2,51	235,93	0,49	47,19	149,20	102,01	149,20	9,50	9,50	93,60	0,00	117,00	22.244,77	37.265,54	-15.020,77	102,01	-14,99
28.985,00	10,00	11,76	7,80	2,66	235,68	0,46	47,14	145,30	98,16	145,30	9,50	9,50	93,60	0,00	117,00	22.342,94	37.382,54	-15.039,61	98,16	-18,84
28.986,00	10,00	12,02	7,80	2,20	237,79	0,63	47,56	142,20	94,64	142,20	10,90	10,90	93,60	0,00	117,00	22.437,58	37.499,54	-15.061,97	94,64	-22,36

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.987,00	10,00	11,74	7,80	3,09	237,62	0,44	47,52	146,50	98,98	146,50	10,70	10,70	93,60	0,00	117,00	22.536,55	37.616,54	-15.079,99	98,98	-18,02
28.988,00	10,00	11,52	7,80	3,65	232,59	0,31	46,52	161,00	114,48	161,00	7,50	7,50	93,60	0,00	117,00	22.651,04	37.733,54	-15.082,51	114,48	-2,52
28.989,00	10,00	11,30	7,80	6,37	228,20	0,00	45,64	193,80	148,16	193,80	3,10	3,10	93,60	0,00	117,00	22.799,20	37.850,54	-15.051,35	117,00	31,16
28.990,00	10,00	10,86	7,80	6,50	221,64	0,02	44,33	222,30	177,97	222,30	0,20	0,20	93,60	0,00	117,00	22.977,17	37.967,54	-14.990,38	117,00	60,97
28.991,00	10,00	11,32	7,80	7,09	221,77	0,00	44,35	229,50	185,15	229,50	0,20	0,20	93,60	0,00	117,00	23.162,32	38.084,54	-14.922,23	117,00	68,15
28.992,00	10,00	11,65	7,80	8,63	229,66	0,00	45,93	250,80	204,87	250,80	0,00	0,00	93,60	0,00	117,00	23.367,18	38.201,54	-14.834,36	117,00	87,87
28.992,78	7,81	11,69	7,80	9,26	182,26	0,00	36,45	212,82	176,37	212,82	0,00	0,00	73,10	0,00	91,38	23.543,55	38.292,92	-14.749,37	91,38	84,99
28.992,98	2,02	11,70	7,80	9,14	47,23	0,00	9,45	56,05	46,60	56,05	0,00	0,00	18,90	0,00	23,62	23.590,16	38.316,54	-14.726,39	23,62	22,98
28.993,00	0,17	11,71	7,80	9,13	4,00	0,00	0,80	4,72	3,92	4,72	0,00	0,00	1,60	0,00	2,00	23.594,08	38.318,54	-14.724,46	2,00	1,92
28.993,12	1,18	11,72	7,80	9,06	27,54	0,00	5,51	32,39	26,88	32,39	0,00	0,00	11,00	0,00	13,75	23.620,96	38.332,30	-14.711,34	13,75	13,12
28.993,50	3,82	11,80	7,80	9,06	89,94	0,00	17,99	105,10	87,11	105,10	0,00	0,00	35,80	0,00	44,75	23.708,07	38.377,04	-14.668,98	44,75	42,36
28.994,00	5,00	11,78	7,80	8,99	117,87	0,00	23,57	137,05	113,48	137,05	0,00	0,00	46,80	0,00	58,50	23.821,54	38.435,54	-14.614,00	58,50	54,98
28.994,50	5,00	11,76	7,80	8,97	117,67	0,00	23,53	136,60	113,07	136,60	0,00	0,00	46,80	0,00	58,50	23.934,61	38.494,04	-14.559,44	58,50	54,57
28.995,00	5,00	11,81	7,80	9,00	117,83	0,00	23,57	136,65	113,08	136,65	0,00	0,00	46,80	0,00	58,50	24.047,69	38.552,54	-14.504,85	58,50	54,58
28.995,50	5,00	11,81	7,80	8,91	118,10	0,00	23,62	136,35	112,73	136,35	0,00	0,00	46,80	0,00	58,50	24.160,42	38.611,04	-14.450,62	58,50	54,23
28.996,00	5,00	11,78	7,80	8,55	117,93	0,00	23,59	134,10	110,51	134,10	0,00	0,00	46,80	0,00	58,50	24.270,93	38.669,54	-14.398,61	58,50	52,01
28.996,50	5,00	11,47	7,80	8,29	116,25	0,00	23,25	131,00	107,75	131,00	0,00	0,00	46,80	0,00	58,50	24.378,68	38.728,04	-14.349,36	58,50	49,25
28.996,62	1,18	11,42	7,80	7,90	26,91	0,00	5,38	30,03	24,65	30,03	0,00	0,00	11,00	0,00	13,75	24.403,34	38.741,80	-14.338,46	13,75	10,90
28.997,00	3,82	11,24	7,80	6,67	86,67	0,00	17,33	91,52	74,19	91,52	0,00	0,00	35,80	0,00	44,75	24.477,52	38.786,54	-14.309,02	44,75	29,44
28.997,50	5,00	11,33	7,80	4,25	112,87	0,20	22,57	101,40	78,83	101,40	1,00	1,00	46,80	0,00	58,50	24.556,35	38.845,04	-14.288,70	58,50	20,33
28.998,00	5,00	12,03	7,80	1,69	116,83	0,69	23,37	76,50	53,13	76,50	4,45	4,45	46,80	0,00	58,50	24.609,48	38.903,54	-14.294,06	53,13	-5,37
28.998,50	5,00	12,84	7,80	1,52	124,37	3,15	24,87	62,85	37,98	62,85	19,20	19,20	46,80	0,00	58,50	24.647,46	38.962,04	-14.314,59	37,98	-20,52
28.999,00	5,00	13,52	7,80	1,48	131,83	6,21	26,37	61,80	35,43	61,80	46,80	46,80	46,80	0,00	58,50	24.682,89	39.020,54	-14.337,65	35,43	-23,07
28.999,50	5,00	14,68	8,11	1,51	141,02	10,16	28,20	62,68	34,48	62,68	81,85	81,85	47,73	34,12	102,31	24.717,37	39.122,86	-14.405,49	34,48	-67,84

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
29.000,00	5,00	15,61	8,11	1,34	151,48	14,55	30,30	62,91	32,61	62,91	123,55	123,55	48,66	74,89	154,44	24.749,98	39.277,29	-14.527,31	32,61	-121,82
29.000,50	5,00	16,23	8,11	1,29	159,22	17,58	31,84	61,81	29,97	61,81	160,65	160,65	48,66	111,99	200,81	24.779,95	39.478,11	-14.698,16	29,97	-170,85
29.001,00	5,00	16,83	8,11	1,12	165,31	20,14	33,06	60,71	27,65	60,71	188,60	188,60	48,66	139,94	235,75	24.807,59	39.713,86	-14.906,26	27,65	-208,10
29.001,50	5,00	17,75	8,11	1,25	172,91	25,50	34,58	60,51	25,93	60,51	228,20	228,20	48,66	179,54	285,25	24.833,52	39.999,11	-15.165,58	25,93	-259,32
29.002,00	5,00	18,62	8,11	1,25	181,86	31,63	36,37	61,16	24,79	61,16	285,65	285,65	48,66	236,99	357,06	24.858,31	40.356,17	-15.497,86	24,79	-332,27
29.002,50	5,00	19,25	8,11	1,25	189,34	34,90	37,87	61,16	23,29	61,16	332,65	332,65	48,66	283,99	415,81	24.881,60	40.771,98	-15.890,38	23,29	-392,52
29.003,00	5,00	20,32	8,11	1,13	197,82	39,02	39,56	60,56	21,00	60,56	369,60	369,60	48,66	320,94	462,00	24.902,60	41.233,98	-16.331,38	21,00	-441,00
29.003,50	5,00	20,98	7,80	1,04	206,49	45,25	41,30	58,58	17,28	58,58	421,35	421,35	47,73	373,62	526,69	24.919,88	41.760,67	-16.840,79	17,28	-509,40
29.004,00	5,00	20,94	7,80	0,94	209,59	43,95	41,92	56,70	14,78	56,70	446,00	446,00	46,80	399,20	557,50	24.934,66	42.318,17	-17.383,50	14,78	-542,72
29.004,50	5,00	20,65	7,80	0,98	207,96	42,45	41,59	56,40	14,81	56,40	432,00	432,00	46,80	385,20	540,00	24.949,47	42.858,17	-17.908,70	14,81	-525,19
29.005,00	5,00	20,47	7,80	0,94	205,60	40,79	41,12	56,40	15,28	56,40	416,20	416,20	46,80	369,40	520,25	24.964,75	43.378,42	-18.413,67	15,28	-504,97
29.005,50	5,00	19,25	7,80	1,07	198,58	34,28	39,72	56,85	17,13	56,85	375,35	375,35	46,80	328,55	469,19	24.981,88	43.847,61	-18.865,72	17,13	-452,05
29.006,00	5,00	17,77	7,80	1,12	185,12	26,71	37,02	57,75	20,73	57,75	304,95	304,95	46,80	258,15	381,19	25.002,61	44.228,79	-19.226,18	20,73	-360,46
29.006,45	4,54	15,70	7,80	1,13	152,03	15,90	30,41	52,73	22,33	52,73	193,53	193,53	42,51	151,02	241,92	25.024,94	44.470,71	-19.445,78	22,33	-219,59
29.006,50	0,46	15,49	7,80	1,13	14,28	14,89	2,86	5,32	2,46	5,32	14,10	14,10	4,29	9,81	17,63	25.027,40	44.488,34	-19.460,94	2,46	-15,16
29.007,00	5,00	18,90	10,30	1,68	171,97	5,92	34,39	68,34	33,95	68,34	104,05	104,05	54,29	49,76	130,06	25.061,35	44.618,40	-19.557,05	33,95	-96,11
29.007,50	5,00	17,81	10,30	2,21	183,56	1,10	36,71	81,24	44,53	81,24	35,10	35,10	61,79	0,00	77,24	25.105,88	44.695,64	-19.589,76	44,53	-32,71
29.008,00	5,00	17,13	10,30	2,79	174,67	0,44	34,93	86,79	51,85	86,79	7,70	7,70	61,79	0,00	77,24	25.157,73	44.772,87	-19.615,14	51,85	-25,38
29.008,50	5,00	16,89	10,30	3,39	170,08	0,27	34,02	92,69	58,67	92,69	3,55	3,55	61,79	0,00	77,24	25.216,40	44.850,11	-19.633,70	58,67	-18,56
29.009,00	5,00	16,71	10,30	4,11	168,01	0,17	33,60	99,29	65,69	99,29	2,20	2,20	61,79	0,00	77,24	25.282,09	44.927,34	-19.645,25	65,69	-11,55
29.009,50	5,00	16,52	10,30	4,86	166,15	0,09	33,23	106,64	73,41	106,64	1,30	1,30	61,79	0,00	77,24	25.355,50	45.004,58	-19.649,08	73,41	-3,83
29.010,00	5,00	24,04	17,43	9,29	202,79	0,00	40,56	153,94	113,38	153,94	0,45	0,45	83,19	0,00	103,98	25.468,88	45.108,56	-19.639,68	103,98	9,40
29.010,50	5,00	22,55	16,13	8,22	232,94	0,00	46,59	188,24	141,65	188,24	0,00	0,00	100,69	0,00	125,86	25.610,52	45.234,42	-19.623,89	125,86	15,79
29.011,00	5,00	21,40	14,99	7,65	219,75	0,00	43,95	172,70	128,75	172,70	0,00	0,00	93,35	0,00	116,69	25.739,28	45.351,11	-19.611,83	116,69	12,06

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
29.011,50	5,00	20,42	14,00	7,06	209,10	0,00	41,82	160,51	118,69	160,51	0,00	0,00	86,96	0,00	108,71	25.857,97	45.459,82	-19.601,85	108,71	9,99
29.012,00	5,00	19,53	13,17	6,63	199,74	0,00	39,95	149,97	110,02	149,97	0,00	0,00	81,52	0,00	101,90	25.967,99	45.561,72	-19.593,73	101,90	8,12
29.012,50	5,00	18,76	12,50	6,44	191,45	0,00	38,29	142,38	104,08	142,38	0,00	0,00	77,03	0,00	96,28	26.072,08	45.658,00	-19.585,92	96,28	7,80
29.013,00	5,00	16,46	11,99	6,43	176,13	0,00	35,23	137,83	102,60	137,83	0,00	0,00	73,48	0,00	91,85	26.174,68	45.749,84	-19.575,17	91,85	10,76
29.013,50	5,00	17,69	11,64	6,41	170,76	0,00	34,15	135,08	100,93	135,08	0,00	0,00	70,88	0,00	88,60	26.275,60	45.838,44	-19.562,84	88,60	12,33
29.014,00	5,00	17,64	11,44	7,36	176,65	0,00	35,33	138,08	102,75	138,08	0,00	0,00	69,23	0,00	86,54	26.378,35	45.924,98	-19.546,63	86,54	16,21
29.014,50	5,00	17,64	11,44	0,00	176,42	0,00	35,28	105,44	70,16	105,44	0,00	0,00	68,64	0,00	85,80	26.448,51	46.010,78	-19.562,27	70,16	-15,64

1.4.2 BR-277 – Pista esquerda

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.746,50		1,50	0,00																	
28.747,00	5,00	1,50	0,00	0,00	15,00	0,00	3,00	0,00	0,00	3,00	0,00	3,00	0,00	3,00	3,75	0,00	3,75	-3,75	0,00	-3,75
28.748,00	10,00	9,61	8,11	4,61	111,05	0,00	22,21	94,73	72,52	94,73	0,00	0,00	48,63	0,00	60,79	72,52	64,54	7,98	60,79	11,73
28.749,00	10,00	15,49	8,11	4,95	250,91	0,07	50,18	192,86	142,68	192,86	0,70	0,70	97,26	0,00	121,58	215,20	186,11	29,09	121,58	21,10
28.750,00	10,00	17,88	8,11	3,78	333,66	0,20	66,73	184,56	117,83	184,56	2,70	2,70	97,26	0,00	121,58	333,03	307,69	25,34	117,83	-3,75
28.751,00	10,00	18,15	8,11	1,68	360,30	0,38	72,06	151,86	79,80	151,86	5,80	5,80	97,26	0,00	121,58	412,83	429,26	-16,44	79,80	-41,78
28.752,00	10,00	19,06	8,11	0,00	372,10	2,48	74,42	85,46	11,04	85,46	28,60	28,60	97,26	0,00	121,58	423,87	550,84	-126,97	11,04	-110,53
28.753,00	10,00	19,48	8,11	0,00	385,41	5,52	77,08	17,26	0,00	77,08	80,00	157,08	97,26	59,82	196,35	423,87	747,19	-323,32	0,00	-196,35
28.754,00	10,00	20,46	8,11	0,00	399,48	9,07	79,90	0,00	0,00	79,90	145,90	225,80	97,26	128,54	282,24	423,87	1.029,44	-605,57	0,00	-282,24
28.755,00	10,00	21,37	8,11	0,00	418,32	12,03	83,66	0,00	0,00	83,66	211,00	294,66	97,26	197,40	368,33	423,87	1.397,77	-973,90	0,00	-368,33
28.756,00	10,00	23,13	8,11	0,00	445,02	16,91	89,00	0,00	0,00	89,00	289,40	378,40	97,26	281,14	473,01	423,87	1.870,77	-1.446,91	0,00	-473,01
28.757,00	10,00	22,50	8,11	0,00	456,30	15,87	91,26	0,00	0,00	91,26	327,80	419,06	97,26	321,80	523,82	423,87	2.394,60	-1.970,73	0,00	-523,82
28.758,00	10,00	21,76	8,11	0,00	442,59	14,91	88,52	0,00	0,00	88,52	307,80	396,32	97,26	299,06	495,40	423,87	2.889,99	-2.466,13	0,00	-495,40
28.759,00	10,00	20,83	8,11	0,00	425,93	13,83	85,19	0,00	0,00	85,19	287,40	372,59	97,26	275,33	465,73	423,87	3.355,73	-2.931,86	0,00	-465,73
28.760,00	10,00	19,89	8,11	0,00	407,22	11,40	81,44	0,00	0,00	81,44	252,30	333,74	97,26	236,48	417,18	423,87	3.772,91	-3.349,04	0,00	-417,18
28.761,00	10,00	19,41	8,11	0,00	393,02	9,01	78,60	0,00	0,00	78,60	204,10	282,70	97,26	185,44	353,38	423,87	4.126,29	-3.702,42	0,00	-353,38
28.762,00	10,00	18,90	8,11	0,00	383,12	5,39	76,62	0,00	0,00	76,62	144,00	220,62	97,26	123,36	275,78	423,87	4.402,07	-3.978,20	0,00	-275,78
28.763,00	10,00	20,08	8,11	0,00	389,84	3,02	77,97	13,16	0,00	77,97	84,10	162,07	97,26	64,81	202,58	423,87	4.604,65	-4.180,78	0,00	-202,58
28.764,00	10,00	18,16	8,11	1,80	382,41	0,40	76,48	115,26	38,78	115,26	34,20	34,20	97,26	0,00	121,58	462,64	4.726,23	-4.263,58	38,78	-82,80
28.765,00	10,00	17,91	8,11	3,78	360,71	0,23	72,14	153,06	80,92	153,06	6,30	6,30	97,26	0,00	121,58	543,56	4.847,80	-4.304,24	80,92	-40,66
28.766,00	10,00	18,78	8,11	6,17	366,90	0,00	73,38	196,76	123,38	196,76	2,30	2,30	97,26	0,00	121,58	666,94	4.969,38	-4.302,43	121,58	1,81
28.767,00	10,00	19,05	8,11	7,21	378,26	0,00	75,65	231,06	155,41	231,06	0,00	0,00	97,26	0,00	121,58	822,35	5.090,95	-4.268,60	121,58	33,83
28.768,00		19,05	8,11	9,23	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.769,00		19,05	8,11	15,16	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.770,00		19,05	8,11	18,08	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.771,00		19,05	8,11	22,81	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.772,00		19,05	8,11	27,31	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.773,00		19,05	8,11	29,94	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.774,00		19,05	8,11	33,12	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.775,00		19,05	8,11	35,87	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.776,00		19,05	8,11	37,46	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.777,00		19,05	8,11	38,16	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.778,00		19,05	8,11	37,30	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.779,00		19,05	8,11	35,17	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.780,00		19,05	8,11	33,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.781,00		19,05	8,11	29,79	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.782,00		19,05	8,11	27,04	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.783,00		19,05	8,11	23,31	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.784,00		19,05	8,11	19,46	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.785,00		19,05	8,11	16,06	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.786,00		19,05	8,11	12,83	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.787,00		19,05	8,11	10,97	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	822,35	5.090,95	-4.268,60	0,00	0,00
28.788,00	10,00	19,05	8,11	8,42	380,96	0,00	76,19	291,16	214,97	291,16	0,00	0,00	97,26	0,00	121,58	1.037,32	5.212,53	-4.175,21	121,58	93,39
28.789,00	10,00	18,89	8,11	7,78	379,38	0,00	75,88	259,26	183,38	259,26	0,00	0,00	97,26	0,00	121,58	1.220,70	5.334,10	-4.113,40	121,58	61,81
28.790,00	10,00	18,90	8,11	8,26	377,89	0,00	75,58	257,66	182,08	257,66	0,00	0,00	97,26	0,00	121,58	1.402,78	5.455,68	-4.052,89	121,58	60,51
28.791,00	10,00	17,95	8,11	7,53	368,54	0,18	73,71	255,16	181,45	255,16	1,80	1,80	97,26	0,00	121,58	1.584,24	5.577,25	-3.993,02	121,58	59,88
28.792,00	10,00	18,76	8,11	8,34	367,11	0,00	73,42	255,96	182,54	255,96	1,80	1,80	97,26	0,00	121,58	1.766,77	5.698,83	-3.932,05	121,58	60,96
28.793,00	10,00	18,76	8,11	8,11	375,21	0,00	75,04	261,76	186,72	261,76	0,00	0,00	97,26	0,00	121,58	1.953,49	5.820,40	-3.866,91	121,58	65,14

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.794,00	10,00	18,21	8,11	6,90	369,77	0,25	73,95	247,36	173,41	247,36	2,50	2,50	97,26	0,00	121,58	2.126,90	5.941,98	-3.815,08	121,58	51,83
28.795,00	10,00	18,34	8,11	5,48	365,57	0,33	73,11	221,06	147,95	221,06	5,80	5,80	97,26	0,00	121,58	2.274,84	6.063,55	-3.788,71	121,58	26,37
28.796,00	10,00	18,13	8,11	5,22	364,69	0,24	72,94	204,26	131,32	204,26	5,70	5,70	97,26	0,00	121,58	2.406,17	6.185,13	-3.778,96	121,58	9,75
28.797,00	10,00	18,38	8,11	4,56	365,02	0,35	73,00	195,06	122,06	195,06	5,90	5,90	97,26	0,00	121,58	2.528,22	6.306,70	-3.778,48	121,58	0,48
28.798,00	10,00	17,59	8,11	5,56	359,63	0,05	71,93	198,46	126,53	198,46	4,00	4,00	97,26	0,00	121,58	2.654,76	6.428,28	-3.773,52	121,58	4,96
28.799,00	10,00	18,08	8,11	5,75	356,70	0,23	71,34	210,36	139,02	210,36	2,80	2,80	97,26	0,00	121,58	2.793,78	6.549,85	-3.756,07	121,58	17,45
28.800,00	10,00	18,89	8,11	6,86	369,71	0,00	73,94	223,36	149,42	223,36	2,30	2,30	97,26	0,00	121,58	2.943,20	6.671,43	-3.728,23	121,58	27,84
28.801,00	10,00	18,85	8,11	7,19	377,40	0,00	75,48	237,76	162,28	237,76	0,00	0,00	97,26	0,00	121,58	3.105,48	6.793,00	-3.687,53	121,58	40,71
28.802,00	10,00	18,82	8,11	6,58	376,69	0,00	75,34	234,96	159,62	234,96	0,00	0,00	97,26	0,00	121,58	3.265,10	6.914,58	-3.649,48	121,58	38,05
28.803,00	10,00	18,80	8,11	6,76	376,14	0,00	75,23	230,66	155,43	230,66	0,00	0,00	97,26	0,00	121,58	3.420,53	7.036,15	-3.615,62	121,58	33,86
28.804,00	10,00	18,67	8,11	6,73	374,68	0,00	74,94	232,16	157,22	232,16	0,00	0,00	97,26	0,00	121,58	3.577,75	7.157,73	-3.579,97	121,58	35,65
28.805,00	10,00	18,82	8,11	7,52	374,97	0,00	74,99	239,76	164,77	239,76	0,00	0,00	97,26	0,00	121,58	3.742,52	7.279,30	-3.536,78	121,58	43,19
28.806,00	10,00	18,84	8,11	7,81	376,66	0,00	75,33	250,56	175,23	250,56	0,00	0,00	97,26	0,00	121,58	3.917,75	7.400,88	-3.483,13	121,58	53,65
28.806,88	8,78	18,63	8,11	7,66	329,15	0,23	65,83	221,33	155,50	221,33	2,02	2,02	85,44	0,00	106,80	4.073,25	7.507,67	-3.434,42	106,80	48,71
28.807,00	1,22	20,49	7,80	7,66	47,54	0,24	9,51	30,22	20,71	30,22	0,57	0,57	11,60	0,00	14,50	4.093,96	7.522,17	-3.428,21	14,50	6,21
28.807,50	5,00	20,51	7,80	7,33	205,01	0,26	41,00	121,75	80,75	121,75	2,50	2,50	46,80	0,00	58,50	4.174,71	7.580,67	-3.405,96	58,50	22,25
28.808,00	5,00	19,32	7,80	6,86	199,19	0,27	39,84	117,75	77,91	117,75	2,65	2,65	46,80	0,00	58,50	4.252,62	7.639,17	-3.386,55	58,50	19,41
28.808,50	5,00	19,50	7,80	6,82	194,13	0,28	38,83	115,20	76,37	115,20	2,75	2,75	46,80	0,00	58,50	4.329,00	7.697,67	-3.368,68	58,50	17,87
28.809,00	5,00	19,31	7,80	6,91	194,07	0,25	38,81	115,45	76,64	115,45	2,65	2,65	46,80	0,00	58,50	4.405,63	7.756,17	-3.350,54	58,50	18,14
28.809,50	5,00	19,82	7,80	7,12	195,64	0,35	39,13	116,95	77,82	116,95	3,00	3,00	46,80	0,00	58,50	4.483,46	7.814,67	-3.331,22	58,50	19,32
28.810,00	5,00	19,47	7,80	7,42	196,43	0,25	39,29	119,50	80,21	119,50	3,00	3,00	46,80	0,00	58,50	4.563,67	7.873,17	-3.309,50	58,50	21,71
28.810,50	5,00	19,67	7,80	7,44	195,72	0,32	39,14	121,10	81,96	121,10	2,85	2,85	46,80	0,00	58,50	4.645,63	7.931,67	-3.286,05	58,50	23,46
28.811,00	5,00	19,89	7,80	6,79	197,82	0,52	39,56	117,95	78,39	117,95	4,20	4,20	46,80	0,00	58,50	4.724,01	7.990,17	-3.266,16	58,50	19,89
28.811,50	5,00	19,34	7,80	7,08	196,16	0,20	39,23	116,15	76,92	116,15	3,60	3,60	46,80	0,00	58,50	4.800,93	8.048,67	-3.247,74	58,50	18,42
28.812,00	5,00	20,17	7,80	6,93	197,56	0,38	39,51	116,85	77,34	116,85	2,90	2,90	46,80	0,00	58,50	4.878,27	8.107,17	-3.228,91	58,50	18,84

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.812,50	5,00	20,31	7,80	6,73	202,37	0,44	40,47	115,10	74,63	115,10	4,10	4,10	46,80	0,00	58,50	4.952,89	8.165,67	-3.212,78	58,50	16,13
28.813,00	5,00	20,54	7,80	6,59	204,23	0,62	40,85	113,40	72,55	113,40	5,30	5,30	46,80	0,00	58,50	5.025,45	8.224,17	-3.198,72	58,50	14,05
28.813,50	5,00	20,63	7,80	6,04	205,84	0,63	41,17	109,95	68,78	109,95	6,25	6,25	46,80	0,00	58,50	5.094,23	8.282,67	-3.188,44	58,50	10,28
28.814,00	5,00	20,73	7,80	5,29	206,81	0,75	41,36	103,45	62,09	103,45	6,90	6,90	46,80	0,00	58,50	5.156,32	8.341,17	-3.184,85	58,50	3,59
28.814,50	5,00	20,71	7,80	5,21	207,20	1,01	41,44	99,30	57,86	99,30	8,80	8,80	46,80	0,00	58,50	5.214,18	8.399,67	-3.185,50	57,86	-0,64
28.815,00	5,00	20,63	7,80	5,15	206,67	0,92	41,33	98,60	57,27	98,60	9,65	9,65	46,80	0,00	58,50	5.271,44	8.458,17	-3.186,73	57,27	-1,23
28.815,50	5,00	19,66	7,80	5,27	201,46	0,87	40,29	98,90	58,61	98,90	8,95	8,95	46,80	0,00	58,50	5.330,05	8.516,67	-3.186,62	58,50	0,11
28.816,00	5,00	11,53	7,80	5,24	155,98	0,00	31,20	99,35	68,15	99,35	4,35	4,35	46,80	0,00	58,50	5.398,21	8.575,17	-3.176,97	58,50	9,65
28.816,50	5,00	11,54	7,80	4,86	115,34	0,00	23,07	97,30	74,23	97,30	0,00	0,00	46,80	0,00	58,50	5.472,44	8.633,67	-3.161,24	58,50	15,73
28.817,00	5,00	11,47	7,80	4,72	115,01	0,00	23,00	94,70	71,70	94,70	0,00	0,00	46,80	0,00	58,50	5.544,13	8.692,17	-3.148,04	58,50	13,20
28.817,50	5,00	20,67	11,40	5,10	160,69	0,39	32,14	106,70	74,56	106,70	1,95	1,95	57,60	0,00	72,00	5.618,70	8.764,17	-3.145,48	72,00	2,56
28.818,00	5,00	20,68	11,40	5,29	206,77	0,36	41,35	120,35	79,00	120,35	3,75	3,75	68,40	0,00	85,50	5.697,69	8.849,67	-3.151,98	79,00	-6,50
28.818,50	5,00	20,35	11,21	5,26	205,18	0,30	41,04	120,58	79,54	120,58	3,30	3,30	67,83	0,00	84,78	5.777,23	8.934,46	-3.157,22	79,54	-5,24
28.818,53	0,32	20,32	11,18	5,29	13,12	0,30	2,62	7,74	5,11	7,74	0,19	0,19	4,33	0,00	5,42	5.782,35	8.939,87	-3.157,53	5,11	-0,30
28.819,00	4,68	19,72	10,80	6,03	187,29	0,18	37,46	114,63	77,18	114,63	2,25	2,25	61,68	0,00	77,11	5.859,52	9.016,98	-3.157,46	77,11	0,07
28.819,50	5,00	18,61	10,34	5,21	191,63	0,18	38,33	119,61	81,28	119,61	1,80	1,80	63,41	0,00	79,26	5.940,80	9.096,24	-3.155,43	79,26	2,02
28.820,00	5,00	18,52	9,85	5,37	185,64	0,11	37,13	113,46	76,34	113,46	1,45	1,45	60,56	0,00	75,71	6.017,14	9.171,94	-3.154,80	75,71	0,63
28.820,50	5,00	19,23	9,31	5,51	188,77	0,10	37,75	111,88	74,12	111,88	1,05	1,05	57,48	0,00	71,85	6.091,26	9.243,79	-3.152,53	71,85	2,28
28.821,00	5,00	19,33	8,74	5,21	192,80	0,10	38,56	107,75	69,19	107,75	1,00	1,00	54,15	0,00	67,68	6.160,45	9.311,47	-3.151,02	67,68	1,50
28.821,50	5,00	18,90	8,12	4,35	191,14	0,15	38,23	98,38	60,15	98,38	1,25	1,25	50,58	0,00	63,23	6.220,60	9.374,70	-3.154,10	60,15	-3,07
28.822,00	5,00	19,26	7,80	3,43	190,83	0,28	38,17	86,67	48,50	86,67	2,15	2,15	47,77	0,00	59,71	6.269,11	9.434,41	-3.165,30	48,50	-11,21
28.822,50	5,00	19,50	7,80	3,06	193,84	0,42	38,77	79,25	40,48	79,25	3,50	3,50	46,80	0,00	58,50	6.309,59	9.492,91	-3.183,32	40,48	-18,02
28.823,00	5,00	19,62	7,80	2,31	195,62	0,50	39,12	73,65	34,53	73,65	4,60	4,60	46,80	0,00	58,50	6.344,11	9.551,41	-3.207,30	34,53	-23,97
28.823,50	5,00	19,68	7,80	2,06	196,50	0,64	39,30	68,65	29,35	68,65	5,70	5,70	46,80	0,00	58,50	6.373,46	9.609,91	-3.236,45	29,35	-29,15
28.824,00	5,00	14,86	7,80	2,06	172,70	0,71	34,54	67,40	32,86	67,40	6,75	6,75	46,80	0,00	58,50	6.406,32	9.668,41	-3.262,09	32,86	-25,64

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.824,50	5,00	14,86	7,80	2,28	148,60	0,61	29,72	68,50	38,78	68,50	6,60	6,60	46,80	0,00	58,50	6.445,10	9.726,91	-3.281,81	38,78	-19,72
28.825,00	5,00	14,74	7,80	3,07	147,99	0,43	29,60	73,55	43,95	73,55	5,20	5,20	46,80	0,00	58,50	6.489,06	9.785,41	-3.296,35	43,95	-14,55
28.825,50	5,00	14,70	7,80	3,42	147,21	0,40	29,44	79,25	49,81	79,25	4,15	4,15	46,80	0,00	58,50	6.538,86	9.843,91	-3.305,05	49,81	-8,69
28.826,00	5,00	14,52	7,80	4,11	146,10	0,29	29,22	84,45	55,23	84,45	3,45	3,45	46,80	0,00	58,50	6.594,10	9.902,41	-3.308,31	55,23	-3,27
28.826,50	5,00	14,74	7,80	3,80	146,30	0,43	29,26	86,35	57,09	86,35	3,60	3,60	46,80	0,00	58,50	6.651,19	9.960,91	-3.309,72	57,09	-1,41
28.827,00	5,00	14,91	7,80	3,25	148,26	0,51	29,65	82,05	52,40	82,05	4,70	4,70	46,80	0,00	58,50	6.703,58	10.019,41	-3.315,83	52,40	-6,10
28.827,50	5,00	14,92	7,80	3,07	149,14	0,53	29,83	78,40	48,57	78,40	5,20	5,20	46,80	0,00	58,50	6.752,16	10.077,91	-3.325,75	48,57	-9,93
28.828,00	5,00	14,91	7,80	2,20	149,16	0,52	29,83	73,15	43,32	73,15	5,25	5,25	46,80	0,00	58,50	6.795,47	10.136,41	-3.340,94	43,32	-15,18
28.828,50	5,00	14,91	7,80	2,08	149,11	0,51	29,82	68,20	38,38	68,20	5,15	5,15	46,80	0,00	58,50	6.833,85	10.194,91	-3.361,06	38,38	-20,12
28.829,00	5,00	14,92	7,80	1,60	149,14	0,53	29,83	65,20	35,37	65,20	5,20	5,20	46,80	0,00	58,50	6.869,22	10.253,41	-3.384,19	35,37	-23,13
28.829,50	5,00	14,95	7,80	1,61	149,35	0,55	29,87	62,85	32,98	62,85	5,40	5,40	46,80	0,00	58,50	6.902,20	10.311,91	-3.409,71	32,98	-25,52
28.830,00	5,00	14,99	7,80	1,56	149,70	0,57	29,94	62,65	32,71	62,65	5,60	5,60	46,80	0,00	58,50	6.934,91	10.370,41	-3.435,50	32,71	-25,79
28.830,19	1,86	14,92	7,80	1,83	55,64	0,54	11,13	23,72	12,59	23,72	2,07	2,07	17,41	0,00	21,77	6.947,51	10.392,18	-3.444,67	12,59	-9,17
28.831,00	8,14	14,65	7,80	2,69	240,68	0,38	48,14	112,98	64,84	112,98	7,49	7,49	76,19	0,00	95,23	7.012,35	10.487,41	-3.475,06	64,84	-30,39
28.832,00	10,00	14,73	7,80	4,56	293,77	0,39	58,75	166,10	107,35	166,10	7,70	7,70	93,60	0,00	117,00	7.119,69	10.604,41	-3.484,71	107,35	-9,65
28.833,00	10,00	15,51	7,80	1,41	302,34	0,99	60,47	153,30	92,83	153,30	13,80	13,80	93,60	0,00	117,00	7.212,53	10.721,41	-3.508,88	92,83	-24,17
28.834,00	10,00	16,47	7,80	0,12	319,79	5,58	63,96	108,90	44,94	108,90	65,70	65,70	93,60	0,00	117,00	7.257,47	10.838,41	-3.580,94	44,94	-72,06
28.835,00	10,00	17,05	7,80	0,00	335,21	6,70	67,04	1,20	0,00	67,04	122,80	189,84	93,60	96,24	237,30	7.257,47	11.075,71	-3.818,24	0,00	-237,30
28.836,00	10,00	18,00	7,80	0,00	350,45	15,03	70,09	0,00	0,00	70,09	217,30	287,39	93,60	193,79	359,24	7.257,47	11.434,95	-4.177,48	0,00	-359,24
28.837,00	10,00	19,10	7,80	0,00	370,95	22,06	74,19	0,00	0,00	74,19	370,90	445,09	93,60	351,49	556,36	7.257,47	11.991,31	-4.733,84	0,00	-556,36
28.838,00	10,00	20,21	7,80	0,00	393,12	31,18	78,62	0,00	0,00	78,62	532,40	611,02	93,60	517,42	763,78	7.257,47	12.755,09	-5.497,62	0,00	-763,78
28.839,00	10,00	22,07	7,80	0,00	422,86	50,05	84,57	0,00	0,00	84,57	812,30	896,87	93,60	803,27	1.121,09	7.257,47	13.876,18	-6.618,71	0,00	-1.121,09
28.840,00	10,00	24,38	7,80	0,00	464,49	68,63	92,90	0,00	0,00	92,90	1.186,80	1.279,70	93,60	1.186,10	1.599,62	7.257,47	15.475,80	-8.218,33	0,00	-1.599,62
28.841,00	10,00	21,89	7,80	0,00	462,68	43,44	92,54	0,00	0,00	92,54	1.120,70	1.213,24	93,60	1.119,64	1.516,55	7.257,47	16.992,35	-9.734,88	0,00	-1.516,55

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.842,00	10,00	21,23	7,80	0,00	431,19	38,48	86,24	0,00	0,00	86,24	819,20	905,44	93,60	811,84	1.131,80	7.257,47	18.124,15	-10.866,68	0,00	-1.131,80
28.843,00	10,00	19,50	7,80	0,00	407,31	21,47	81,46	0,00	0,00	81,46	599,50	680,96	93,60	587,36	851,20	7.257,47	18.975,35	-11.717,88	0,00	-851,20
28.844,00	10,00	16,38	7,80	0,43	358,79	4,44	71,76	97,90	26,14	97,90	259,10	259,10	93,60	165,50	323,88	7.283,61	19.299,22	-12.015,61	26,14	-297,73
28.845,00	10,00	15,07	7,80	2,11	314,45	0,61	62,89	119,00	56,11	119,00	50,50	50,50	93,60	0,00	117,00	7.339,72	19.416,22	-12.076,50	56,11	-60,89
28.846,00	10,00	14,62	7,80	6,92	296,89	0,05	59,38	183,90	124,52	183,90	6,60	6,60	93,60	0,00	117,00	7.464,24	19.533,22	-12.068,98	117,00	7,52
28.847,00	10,00	14,83	7,80	8,14	294,54	0,00	58,91	244,20	185,29	244,20	0,50	0,50	93,60	0,00	117,00	7.649,54	19.650,22	-12.000,69	117,00	68,29
28.848,00	10,00	14,71	7,80	6,73	295,39	0,06	59,08	242,30	183,22	242,30	0,60	0,60	93,60	0,00	117,00	7.832,76	19.767,22	-11.934,47	117,00	66,22
28.849,00	10,00	15,50	7,80	0,46	302,04	1,33	60,41	165,50	105,09	165,50	13,90	13,90	93,60	0,00	117,00	7.937,85	19.884,22	-11.946,37	105,09	-11,91
28.850,00	10,00	15,21	7,80	2,38	307,10	0,70	61,42	122,00	60,58	122,00	20,30	20,30	93,60	0,00	117,00	7.998,43	20.001,22	-12.002,79	60,58	-56,42
28.851,00	10,00	15,27	7,80	2,70	304,78	0,82	60,96	144,40	83,44	144,40	15,20	15,20	93,60	0,00	117,00	8.081,87	20.118,22	-12.036,35	83,44	-33,56
28.852,00	10,00	16,41	7,80	2,76	316,77	1,83	63,35	148,20	84,85	148,20	26,50	26,50	93,60	0,00	117,00	8.166,72	20.235,22	-12.068,50	84,85	-32,15
28.853,00	10,00	15,49	7,80	0,89	319,03	1,44	63,81	130,10	66,29	130,10	32,70	32,70	93,60	0,00	117,00	8.233,01	20.352,22	-12.119,21	66,29	-50,71
28.854,00	10,00	16,32	7,80	0,40	318,12	3,81	63,62	106,50	42,88	106,50	52,50	52,50	93,60	0,00	117,00	8.275,89	20.469,22	-12.193,33	42,88	-74,12
28.855,00	10,00	17,17	7,80	0,00	334,93	11,04	66,99	4,00	0,00	66,99	148,50	215,49	93,60	121,89	269,36	8.275,89	20.738,58	-12.462,69	0,00	-269,36
28.856,00	10,00	16,39	7,80	0,53	335,67	4,26	67,13	98,90	31,77	98,90	153,00	153,00	93,60	59,40	191,25	8.307,66	20.929,83	-12.622,18	31,77	-159,48
28.857,00	10,00	16,02	7,80	0,70	324,08	2,97	64,82	105,90	41,08	105,90	72,30	72,30	93,60	0,00	117,00	8.348,74	21.046,83	-12.698,09	41,08	-75,92
28.858,00	10,00	16,40	7,80	0,12	324,12	7,13	64,82	101,80	36,98	101,80	101,00	101,00	93,60	7,40	126,25	8.385,72	21.173,08	-12.787,36	36,98	-89,27
28.859,00	10,00	16,21	7,80	0,52	326,10	4,52	65,22	100,00	34,78	100,00	116,50	116,50	93,60	22,90	145,63	8.420,50	21.318,71	-12.898,21	34,78	-110,84
28.860,00	10,00	15,94	7,80	0,44	321,50	3,63	64,30	103,20	38,90	103,20	81,50	81,50	93,60	0,00	117,00	8.459,40	21.435,71	-12.976,31	38,90	-78,10
28.861,00	10,00	16,20	7,80	0,26	321,33	4,47	64,27	100,60	36,33	100,60	81,00	81,00	93,60	0,00	117,00	8.495,73	21.552,71	-13.056,97	36,33	-80,67
28.862,00	10,00	16,83	7,80	0,04	330,31	7,52	66,06	96,60	30,54	96,60	119,90	119,90	93,60	26,30	149,88	8.526,27	21.702,58	-13.176,31	30,54	-119,34
28.863,00	10,00	17,51	7,80	0,00	343,46	12,16	68,69	0,40	0,00	68,69	196,80	265,49	93,60	171,89	331,86	8.526,27	22.034,45	-13.508,17	0,00	-331,86
28.864,00	10,00	17,87	7,80	0,00	353,83	15,57	70,77	0,00	0,00	70,77	277,30	348,07	93,60	254,47	435,08	8.526,27	22.469,53	-13.943,26	0,00	-435,08
28.865,00	10,00	18,03	7,80	0,00	359,06	14,80	71,81	0,00	0,00	71,81	303,70	375,51	93,60	281,91	469,39	8.526,27	22.938,92	-14.412,65	0,00	-469,39

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.866,00	10,00	18,96	7,80	0,00	369,96	23,32	73,99	0,00	0,00	73,99	381,20	455,19	93,60	361,59	568,99	8.526,27	23.507,91	-14.981,64	0,00	-568,99
28.867,00	10,00	19,49	7,80	0,00	384,49	27,53	76,90	0,00	0,00	76,90	508,50	585,40	93,60	491,80	731,75	8.526,27	24.239,66	-15.713,38	0,00	-731,75
28.868,00	10,00	19,77	7,80	0,00	392,56	27,20	78,51	0,00	0,00	78,51	547,30	625,81	93,60	532,21	782,26	8.526,27	25.021,92	-16.495,65	0,00	-782,26
28.869,00	10,00	19,88	7,80	0,00	396,44	26,90	79,29	0,00	0,00	79,29	541,00	620,29	93,60	526,69	775,36	8.526,27	25.797,28	-17.271,01	0,00	-775,36
28.870,00	10,00	20,11	7,80	0,00	399,89	22,97	79,98	0,00	0,00	79,98	498,70	578,68	93,60	485,08	723,35	8.526,27	26.520,63	-17.994,36	0,00	-723,35
28.871,00	10,00	20,02	7,80	0,00	401,30	19,50	80,26	0,00	0,00	80,26	424,70	504,96	93,60	411,36	631,20	8.526,27	27.151,83	-18.625,56	0,00	-631,20
28.872,00	10,00	19,73	7,80	0,00	397,46	26,21	79,49	0,00	0,00	79,49	457,10	536,59	93,60	442,99	670,74	8.526,27	27.822,57	-19.296,30	0,00	-670,74
28.873,00	10,00	19,53	7,80	0,00	392,55	26,43	78,51	0,00	0,00	78,51	526,40	604,91	93,60	511,31	756,14	8.526,27	28.578,70	-20.052,43	0,00	-756,14
28.874,00	10,00	19,28	7,80	0,00	388,09	25,11	77,62	0,00	0,00	77,62	515,40	593,02	93,60	499,42	741,27	8.526,27	29.319,98	-20.793,70	0,00	-741,27
28.875,00	10,00	19,45	7,80	0,00	387,35	24,50	77,47	0,00	0,00	77,47	496,10	573,57	93,60	479,97	716,96	8.526,27	30.036,94	-21.510,67	0,00	-716,96
28.876,00	10,00	18,71	7,80	0,25	381,64	18,47	76,33	96,10	19,77	96,10	429,70	429,70	93,60	336,10	537,13	8.546,04	30.574,06	-22.028,02	19,77	-517,35
28.877,00	10,00	18,42	7,80	0,01	371,32	18,08	74,26	96,20	21,94	96,20	365,50	365,50	93,60	271,90	456,88	8.567,98	31.030,94	-22.462,96	21,94	-434,94
28.878,00	10,00	18,65	7,80	0,00	370,65	17,42	74,13	0,10	0,00	74,13	355,00	429,13	93,60	335,53	536,41	8.567,98	31.567,35	-22.999,37	0,00	-536,41
28.879,00	10,00	18,52	7,80	0,00	371,67	15,64	74,33	0,00	0,00	74,33	330,60	404,93	93,60	311,33	506,17	8.567,98	32.073,52	-23.505,54	0,00	-506,17
28.880,00	10,00	18,28	7,80	0,00	367,98	14,30	73,60	0,00	0,00	73,60	299,40	373,00	93,60	279,40	466,24	8.567,98	32.539,76	-23.971,78	0,00	-466,24
28.881,00	10,00	18,65	7,80	0,00	369,23	15,25	73,85	0,00	0,00	73,85	295,50	369,35	93,60	275,75	461,68	8.567,98	33.001,44	-24.433,46	0,00	-461,68
28.882,00	10,00	18,36	7,80	0,00	370,09	14,95	74,02	0,00	0,00	74,02	302,00	376,02	93,60	282,42	470,02	8.567,98	33.471,47	-24.903,49	0,00	-470,02
28.883,00	10,00	18,32	7,80	0,00	366,79	14,35	73,36	0,00	0,00	73,36	293,00	366,36	93,60	272,76	457,95	8.567,98	33.929,41	-25.361,43	0,00	-457,95
28.884,00	10,00	18,31	7,80	0,00	366,26	13,74	73,25	0,00	0,00	73,25	280,90	354,15	93,60	260,55	442,69	8.567,98	34.372,10	-25.804,12	0,00	-442,69
28.885,00	10,00	18,37	7,80	0,00	366,84	13,92	73,37	0,00	0,00	73,37	276,60	349,97	93,60	256,37	437,46	8.567,98	34.809,56	-26.241,58	0,00	-437,46
28.886,00	10,00	18,59	7,80	0,00	369,65	11,08	73,93	0,00	0,00	73,93	250,00	323,93	93,60	230,33	404,91	8.567,98	35.214,47	-26.646,49	0,00	-404,91
28.887,00	10,00	17,28	7,80	0,00	358,73	7,10	71,75	0,00	0,00	71,75	181,80	253,55	93,60	159,95	316,93	8.567,98	35.531,41	-26.963,43	0,00	-316,93
28.888,00	10,00	17,61	7,80	0,00	348,88	15,16	69,78	0,00	0,00	69,78	222,60	292,38	93,60	198,78	365,47	8.567,98	35.896,88	-27.328,90	0,00	-365,47
28.889,00	10,00	20,22	7,80	0,00	378,28	31,67	75,66	0,00	0,00	75,66	468,30	543,96	93,60	450,36	679,94	8.567,98	36.576,82	-28.008,84	0,00	-679,94
28.890,00	10,00	19,16	7,80	0,00	393,81	12,62	78,76	0,00	0,00	78,76	442,90	521,66	93,60	428,06	652,08	8.567,98	37.228,90	-28.660,92	0,00	-652,08

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.891,00	10,00	17,78	7,80	0,00	369,43	9,44	73,89	0,00	0,00	73,89	220,60	294,49	93,60	200,89	368,11	8.567,98	37.597,01	-29.029,03	0,00	-368,11
28.892,00	10,00	17,63	7,80	0,00	354,19	11,05	70,84	0,00	0,00	70,84	204,90	275,74	93,60	182,14	344,67	8.567,98	37.941,68	-29.373,70	0,00	-344,67
28.893,00	10,00	17,09	8,21	0,02	347,24	6,66	69,45	96,27	26,82	96,27	177,10	177,10	96,07	81,03	221,38	8.594,80	38.163,05	-29.568,26	26,82	-194,56
28.894,00	10,00	17,22	9,24	0,64	343,12	1,19	68,62	111,31	42,68	111,31	78,50	78,50	104,71	0,00	130,88	8.637,48	38.293,94	-29.656,46	42,68	-88,20
28.895,00	10,00	17,81	10,27	1,62	350,36	0,80	70,07	139,65	69,58	139,65	19,90	19,90	117,05	0,00	146,32	8.707,06	38.440,25	-29.733,19	69,58	-76,73
28.896,00	10,00	18,36	11,30	3,47	361,73	0,55	72,35	180,30	107,95	180,30	13,50	13,50	129,40	0,00	161,75	8.815,01	38.602,00	-29.786,99	107,95	-53,80
28.897,00	10,00	18,31	11,40	5,52	366,67	0,45	73,33	226,08	152,75	226,08	10,00	10,00	136,18	0,00	170,23	8.967,76	38.772,23	-29.804,47	152,75	-17,48
28.898,00	10,00	18,71	11,40	8,22	370,20	0,31	74,04	274,20	200,16	274,20	7,60	7,60	136,80	0,00	171,00	9.167,92	38.943,23	-29.775,31	171,00	29,16
28.899,00	10,00	11,39	7,80	7,33	301,01	0,00	60,20	270,70	210,50	270,70	3,10	3,10	115,20	0,00	144,00	9.378,42	39.087,23	-29.708,81	144,00	66,50
28.900,00	10,00	15,44	7,80	8,31	268,32	0,23	53,66	250,00	196,34	250,00	2,30	2,30	93,60	0,00	117,00	9.574,76	39.204,23	-29.629,47	117,00	79,34
28.901,00	10,00	15,51	7,80	13,55	309,56	0,04	61,91	312,20	250,29	312,20	2,70	2,70	93,60	0,00	117,00	9.825,04	39.321,23	-29.496,18	117,00	133,29
28.902,00	10,00	15,72	7,80	14,25	312,37	0,10	62,47	371,60	309,13	371,60	1,40	1,40	93,60	0,00	117,00	10.134,17	39.438,23	-29.304,06	117,00	192,13
28.903,00	10,00	16,05	7,80	14,34	317,79	0,07	63,56	379,50	315,94	379,50	1,70	1,70	93,60	0,00	117,00	10.450,11	39.555,23	-29.105,11	117,00	198,94
28.904,00	10,00	15,85	7,80	12,00	319,01	0,14	63,80	357,00	293,20	357,00	2,10	2,10	93,60	0,00	117,00	10.743,31	39.672,23	-28.928,91	117,00	176,20
28.905,00	10,00	15,93	7,80	12,47	317,78	0,11	63,56	338,30	274,74	338,30	2,50	2,50	93,60	0,00	117,00	11.018,06	39.789,23	-28.771,17	117,00	157,74
28.906,00	10,00	15,84	7,80	12,82	317,76	0,09	63,55	346,50	282,95	346,50	2,00	2,00	93,60	0,00	117,00	11.301,00	39.906,23	-28.605,22	117,00	165,95
28.907,00	10,00	15,49	7,80	10,65	313,36	0,15	62,67	328,30	265,63	328,30	2,40	2,40	93,60	0,00	117,00	11.566,63	40.023,23	-28.456,60	117,00	148,63
28.908,00	10,00	15,28	7,80	7,67	307,76	0,20	61,55	276,80	215,25	276,80	3,50	3,50	93,60	0,00	117,00	11.781,88	40.140,23	-28.358,35	117,00	98,25
28.909,00	10,00	14,49	7,80	4,89	297,75	0,31	59,55	219,20	159,65	219,20	5,10	5,10	93,60	0,00	117,00	11.941,53	40.257,23	-28.315,70	117,00	42,65
28.910,00	10,00	14,55	7,80	4,60	290,36	0,31	58,07	188,50	130,43	188,50	6,20	6,20	93,60	0,00	117,00	12.071,95	40.374,23	-28.302,27	117,00	13,43
28.911,00	10,00	14,71	7,80	4,27	292,55	0,40	58,51	182,30	123,79	182,30	7,10	7,10	93,60	0,00	117,00	12.195,74	40.491,23	-28.295,48	117,00	6,79
28.912,00	10,00	14,69	7,80	4,33	294,04	0,40	58,81	179,60	120,79	179,60	8,00	8,00	93,60	0,00	117,00	12.316,54	40.608,23	-28.291,69	117,00	3,79
28.913,00	10,00	14,68	7,80	3,67	293,71	0,40	58,74	173,60	114,86	173,60	8,00	8,00	93,60	0,00	117,00	12.431,39	40.725,23	-28.293,83	114,86	-2,14
28.914,00	10,00	14,82	7,80	3,87	295,00	0,46	59,00	169,00	110,00	169,00	8,60	8,60	93,60	0,00	117,00	12.541,39	40.842,23	-28.300,83	110,00	-7,00
28.915,00	10,00	14,94	7,80	2,21	297,61	0,54	59,52	154,40	94,88	154,40	10,00	10,00	93,60	0,00	117,00	12.636,27	40.959,23	-28.322,95	94,88	-22,12

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.916,00	10,00	15,24	7,80	1,09	301,82	0,71	60,36	126,60	66,24	126,60	12,50	12,50	93,60	0,00	117,00	12.702,51	41.076,23	-28.373,72	66,24	-50,76
28.917,00	10,00	15,49	7,80	1,46	307,35	0,78	61,47	119,10	57,63	119,10	14,90	14,90	93,60	0,00	117,00	12.760,14	41.193,23	-28.433,09	57,63	-59,37
28.918,00	10,00	15,70	7,80	0,56	311,86	1,44	62,37	113,80	51,43	113,80	22,20	22,20	93,60	0,00	117,00	12.811,57	41.310,23	-28.498,66	51,43	-65,57
28.919,00	10,00	15,99	7,80	0,10	316,84	1,73	63,37	100,20	36,83	100,20	31,70	31,70	93,60	0,00	117,00	12.848,40	41.427,23	-28.578,83	36,83	-80,17
28.920,00	10,00	15,93	7,80	0,39	319,16	1,66	63,83	98,50	34,67	98,50	33,90	33,90	93,60	0,00	117,00	12.883,07	41.544,23	-28.661,16	34,67	-82,33
28.921,00	10,00	18,74	7,80	0,60	346,70	10,23	69,34	103,50	34,16	103,50	118,90	118,90	93,60	25,30	148,63	12.917,23	41.692,85	-28.775,63	34,16	-114,47
28.922,00	10,00	12,60	11,10	0,00	313,43	10,79	62,69	6,00	0,00	62,69	210,20	272,89	113,40	159,49	341,11	12.917,23	42.033,96	-29.116,73	0,00	-341,11
28.923,00	10,00	20,32	7,80	0,27	329,24	22,24	65,85	116,10	50,25	116,10	330,30	330,30	113,40	216,90	412,88	12.967,48	42.446,83	-29.479,36	50,25	-362,62
28.924,00	10,00	21,45	7,80	0,00	417,75	32,75	83,55	2,70	0,00	83,55	549,90	633,45	93,60	539,85	791,81	12.967,48	43.238,65	-30.271,17	0,00	-791,81
28.925,00	10,00	12,20	7,80	0,00	336,55	21,18	67,31	0,00	0,00	67,31	539,30	606,61	93,60	513,01	758,26	12.967,48	43.996,91	-31.029,43	0,00	-758,26
28.926,00	10,00	12,42	7,80	0,00	246,23	22,78	49,25	0,00	0,00	49,25	439,60	488,85	93,60	395,25	611,06	12.967,48	44.607,96	-31.640,49	0,00	-611,06
28.927,00	10,00	25,91	11,70	0,00	383,30	40,91	76,66	0,00	0,00	76,66	636,90	713,56	117,01	596,55	891,95	12.967,48	45.499,91	-32.532,44	0,00	-891,95
28.928,00	10,00	25,60	12,29	0,00	515,07	40,94	103,01	0,00	0,00	103,01	818,50	921,51	143,92	777,60	1.151,89	12.967,48	46.651,81	-33.684,33	0,00	-1.151,89
28.929,00	10,00	25,68	13,16	0,19	512,73	31,58	102,55	154,58	52,03	154,58	725,20	725,20	152,68	572,52	906,50	13.019,51	47.558,31	-34.538,80	52,03	-854,47
28.930,00	10,00	26,24	14,86	0,95	519,19	27,18	103,84	179,50	75,66	179,50	587,60	587,60	168,10	419,50	734,50	13.095,17	48.292,81	-35.197,64	75,66	-658,84
28.931,00	10,00	18,56	7,80	0,00	448,06	16,86	89,61	9,50	0,00	89,61	440,40	530,01	135,94	394,08	662,51	13.095,17	48.955,32	-35.860,15	0,00	-662,51
28.932,00	10,00	17,73	7,80	0,00	362,95	13,36	72,59	0,00	0,00	72,59	302,20	374,79	93,60	281,19	468,49	13.095,17	49.423,81	-36.328,64	0,00	-468,49
28.933,00	10,00	16,82	7,80	0,00	345,55	6,17	69,11	0,00	0,00	69,11	195,30	264,41	93,60	170,81	330,51	13.095,17	49.754,32	-36.659,15	0,00	-330,51
28.933,38	3,83	16,48	7,80	0,00	127,60	5,65	25,52	0,00	0,00	25,52	45,29	70,81	35,87	34,95	88,52	13.095,17	49.842,84	-36.747,67	0,00	-88,52
28.934,00	6,17	15,26	7,80	0,18	195,73	1,73	39,15	58,84	19,70	58,84	45,52	45,52	57,73	0,00	72,17	13.114,87	49.915,01	-36.800,14	19,70	-52,47
28.935,00	10,00	15,00	7,80	2,91	302,53	0,90	60,51	124,50	63,99	124,50	26,30	26,30	93,60	0,00	117,00	13.178,86	50.032,01	-36.853,14	63,99	-53,01
28.936,00	10,00	15,87	8,24	8,14	308,63	0,91	61,73	206,76	145,04	206,76	18,10	18,10	96,26	0,00	120,33	13.323,90	50.152,34	-36.828,44	120,33	24,71
28.937,00	10,00	21,09	13,80	9,35	369,58	0,28	73,92	307,16	233,25	307,16	11,90	11,90	132,26	0,00	165,33	13.557,15	50.317,67	-36.760,52	165,33	67,92
28.938,00	10,00	21,27	13,80	12,29	423,67	0,26	84,73	382,00	297,27	382,00	5,40	5,40	165,60	0,00	207,00	13.854,42	50.524,67	-36.670,25	207,00	90,27

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.938,91	9,15	21,27	13,80	13,38	389,16	0,35	77,83	386,24	308,40	386,24	5,58	5,58	151,46	0,00	189,32	14.162,82	50.713,99	-36.551,17	189,32	119,08
28.939,00	0,85	19,08	11,40	13,22	34,47	0,34	6,89	35,63	28,74	35,63	0,59	0,59	12,91	0,00	16,14	14.191,55	50.730,13	-36.538,57	16,14	12,60
28.940,00	10,00	18,88	11,40	13,56	379,62	0,30	75,92	404,60	328,68	404,60	6,40	6,40	136,80	0,00	171,00	14.520,23	50.901,13	-36.380,90	171,00	157,68
28.941,00	9,98	18,88	11,40	11,66	376,77	0,34	75,35	388,18	312,83	388,18	6,39	6,39	136,51	0,00	170,64	14.833,06	51.071,77	-36.238,71	170,64	142,19
28.941,00	0,02	18,11	10,50	11,65	0,78	0,34	0,16	0,77	0,61	0,77	0,01	0,01	0,28	0,00	0,34	14.833,67	51.072,11	-36.238,44	0,34	0,27
28.942,00	10,00	16,65	9,47	7,19	347,62	0,33	69,52	308,22	238,70	308,22	6,70	6,70	119,82	0,00	149,78	15.072,37	51.221,89	-36.149,52	149,78	88,92
28.942,39	3,87	16,32	9,07	7,87	127,51	0,37	25,50	101,27	75,77	101,27	2,71	2,71	43,02	0,00	53,77	15.148,13	51.275,66	-36.127,53	53,77	22,00
28.942,50	1,13	16,13	8,95	8,02	36,73	0,40	7,35	30,23	22,88	30,23	0,87	0,87	12,24	0,00	15,30	15.171,02	51.290,96	-36.119,95	15,30	7,58
28.943,00	5,00	14,88	8,44	3,54	155,06	0,55	31,01	109,98	78,96	109,98	4,75	4,75	52,18	0,00	65,22	15.249,98	51.356,18	-36.106,20	65,22	13,74
28.943,50	5,00	15,50	7,96	0,41	151,90	1,69	30,38	68,94	38,56	68,94	11,20	11,20	49,19	0,00	61,49	15.288,54	51.417,67	-36.129,13	38,56	-22,93
28.943,78	2,76	15,50	7,96	0,74	85,45	1,56	17,09	29,49	12,40	29,49	8,96	8,96	26,32	0,00	32,90	15.300,94	51.450,57	-36.149,63	12,40	-20,50
28.944,00	2,24	15,20	7,80	0,78	68,86	1,76	13,77	24,61	10,84	24,61	7,45	7,45	21,20	0,00	26,51	15.311,78	51.477,08	-36.165,29	10,84	-15,66
28.944,50	5,00	15,36	7,80	1,18	152,80	2,12	30,56	56,60	26,04	56,60	19,40	19,40	46,80	0,00	58,50	15.337,82	51.535,58	-36.197,75	26,04	-32,46
28.944,89	3,87	15,44	7,80	1,13	119,14	1,68	23,83	45,14	21,31	45,14	14,70	14,70	36,20	0,00	45,26	15.359,14	51.580,83	-36.221,70	21,31	-23,94
28.945,00	1,13	15,49	7,80	0,99	35,02	1,58	7,00	13,00	5,99	13,00	3,69	3,69	10,60	0,00	13,24	15.365,13	51.594,08	-36.228,95	5,99	-7,25
28.945,50	5,00	16,49	7,80	0,79	159,92	2,84	31,98	55,70	23,72	55,70	22,10	22,10	46,80	0,00	58,50	15.388,84	51.652,58	-36.263,73	23,72	-34,78
28.946,00	5,00	17,03	7,80	1,26	167,61	6,06	33,52	57,05	23,53	57,05	44,50	44,50	46,80	0,00	58,50	15.412,37	51.711,08	-36.298,70	23,53	-34,97
28.946,50	5,00	17,75	7,80	1,32	173,89	10,02	34,78	59,70	24,92	59,70	80,40	80,40	46,80	33,60	100,50	15.437,29	51.811,58	-36.374,28	24,92	-75,58
28.947,00	5,00	18,31	7,80	1,91	180,29	11,32	36,06	62,95	26,89	62,95	106,70	106,70	46,80	59,90	133,38	15.464,19	51.944,95	-36.480,76	26,89	-106,48
28.947,50	5,00	18,86	7,80	1,79	185,84	14,56	37,17	65,30	28,13	65,30	129,40	129,40	46,80	82,60	161,75	15.492,32	52.106,70	-36.614,38	28,13	-133,62
28.948,00	5,00	18,94	7,80	1,87	189,00	15,96	37,80	65,10	27,30	65,10	152,60	152,60	46,80	105,80	190,75	15.519,62	52.297,45	-36.777,83	27,30	-163,45
28.948,50	5,00	19,13	7,80	2,20	190,34	12,92	38,07	67,15	29,08	67,15	144,40	144,40	46,80	97,60	180,50	15.548,70	52.477,95	-36.929,25	29,08	-151,42
28.949,00	5,00	18,82	7,80	2,37	189,76	11,53	37,95	69,65	31,70	69,65	122,25	122,25	46,80	75,45	152,81	15.580,40	52.630,76	-37.050,36	31,70	-121,11
28.949,50	5,00	19,02	7,80	3,29	189,21	11,06	37,84	75,10	37,26	75,10	112,95	112,95	46,80	66,15	141,19	15.617,66	52.771,95	-37.154,29	37,26	-103,93
28.950,00	5,00	18,72	7,80	4,25	188,69	9,57	37,74	84,50	46,76	84,50	103,15	103,15	46,80	56,35	128,94	15.664,42	52.900,89	-37.236,47	46,76	-82,18

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.950,50	5,00	19,54	7,80	3,99	191,32	9,68	38,26	88,00	49,74	88,00	96,25	96,25	46,80	49,45	120,31	15.714,16	53.021,20	-37.307,04	49,74	-70,58
28.951,00	5,00	18,08	7,80	3,78	188,10	7,20	37,62	85,65	48,03	85,65	84,40	84,40	46,80	37,60	105,50	15.762,19	53.126,70	-37.364,51	48,03	-57,47
28.951,50	5,00	18,69	7,80	4,02	183,86	7,31	36,77	85,80	49,03	85,80	72,55	72,55	46,80	25,75	90,69	15.811,22	53.217,39	-37.406,17	49,03	-41,66
28.952,00	5,00	18,52	7,80	4,23	186,05	6,05	37,21	88,05	50,84	88,05	66,80	66,80	46,80	20,00	83,50	15.862,06	53.300,89	-37.438,83	50,84	-32,66
28.952,50	5,00	18,10	7,80	4,35	183,09	4,28	36,62	89,70	53,08	89,70	51,65	51,65	46,80	4,85	64,56	15.915,14	53.365,45	-37.450,31	53,08	-11,48
28.952,98	4,77	17,80	7,80	4,55	171,30	3,10	34,26	87,12	52,86	87,12	35,21	35,21	44,66	0,00	55,82	15.968,00	53.421,27	-37.453,28	52,86	-2,96
28.953,00	0,23	17,79	7,80	4,56	8,15	3,06	1,63	4,23	2,60	4,23	1,41	1,41	2,14	0,00	2,68	15.970,60	53.423,95	-37.453,36	2,60	-0,08
28.953,50	5,00	17,38	7,80	5,00	175,85	1,89	35,17	94,60	59,43	94,60	24,75	24,75	46,80	0,00	58,50	16.030,03	53.482,45	-37.452,43	58,50	0,93
28.954,00	5,00	16,29	7,80	5,69	168,36	0,86	33,67	100,25	66,58	100,25	13,75	13,75	46,80	0,00	58,50	16.096,60	53.540,95	-37.444,35	58,50	8,08
28.954,50	5,00	15,05	7,80	6,25	156,69	0,45	31,34	106,50	75,16	106,50	6,55	6,55	46,80	0,00	58,50	16.171,77	53.599,45	-37.427,69	58,50	16,66
28.955,00	5,00	14,57	7,80	6,85	148,11	0,26	29,62	112,30	82,68	112,30	3,55	3,55	46,80	0,00	58,50	16.254,44	53.657,95	-37.403,51	58,50	24,18
28.955,50	5,00	14,69	7,80	7,16	146,32	0,22	29,26	116,85	87,59	116,85	2,40	2,40	46,80	0,00	58,50	16.342,03	53.716,45	-37.374,42	58,50	29,09
28.956,00	5,00	14,72	7,80	7,14	147,06	0,31	29,41	118,30	88,89	118,30	2,65	2,65	46,80	0,00	58,50	16.430,92	53.774,95	-37.344,03	58,50	30,39
28.956,50	5,00	14,30	7,80	7,44	145,10	0,12	29,02	119,70	90,68	119,70	2,15	2,15	46,80	0,00	58,50	16.521,60	53.833,45	-37.311,85	58,50	32,18
28.957,00	5,00	14,12	7,80	7,56	142,10	0,08	28,42	121,80	93,38	121,80	1,00	1,00	46,80	0,00	58,50	16.614,98	53.891,95	-37.276,97	58,50	34,88
28.957,50	5,00	14,26	7,80	7,76	141,89	0,11	28,38	123,40	95,02	123,40	0,95	0,95	46,80	0,00	58,50	16.710,00	53.950,45	-37.240,45	58,50	36,52
28.958,00	5,00	14,17	7,80	8,00	142,11	0,08	28,42	125,60	97,18	125,60	0,95	0,95	46,80	0,00	58,50	16.807,18	54.008,95	-37.201,77	58,50	38,68
28.958,50	5,00	14,09	7,80	8,07	141,28	0,08	28,26	127,15	98,89	127,15	0,80	0,80	46,80	0,00	58,50	16.906,07	54.067,45	-37.161,38	58,50	40,39
28.959,00	5,00	14,15	7,80	7,96	141,20	0,10	28,24	126,95	98,71	126,95	0,90	0,90	46,80	0,00	58,50	17.004,78	54.125,95	-37.121,17	58,50	40,21
28.959,50		6,32	4,82	1,09	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.960,00		6,32	4,82	1,22	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.960,50		6,32	4,82	1,30	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.961,00		6,32	4,82	1,25	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.961,07		6,32	4,82	1,24	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.961,50		6,32	4,82	1,24	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.962,00		6,32	4,82	1,29	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.962,18		6,32	4,82	1,31	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.962,50		6,32	4,82	1,35	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.963,00		6,32	4,82	1,35	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.963,50		6,32	4,82	1,41	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.963,57		6,32	4,82	1,42	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.964,00		6,32	4,82	1,43	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.964,96		6,32	4,82	1,39	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.965,00		6,32	4,82	1,39	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.966,00		6,32	4,82	1,49	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.967,00		6,32	4,82	1,33	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.967,04		6,32	4,82	1,32	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.968,00		6,32	4,82	1,30	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.969,00		6,32	4,82	1,13	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.970,00		6,32	4,82	1,23	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.971,00		6,32	4,82	1,41	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.972,00		6,32	4,82	1,40	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.973,00		6,32	4,82	1,65	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.974,00		6,32	4,82	1,67	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.975,00		6,32	4,82	1,70	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.976,00		6,32	4,82	1,64	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.977,00		6,32	4,82	1,54	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.978,00		6,32	4,82	1,33	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.979,00		6,32	4,82	1,13	0,00	0,02	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.980,00		6,32	4,82	0,86	0,00	0,07	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.981,00		6,32	4,82	0,76	0,00	0,17	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
28.982,00		13,03	8,42	1,88	0,00	0,34	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.983,00		13,21	8,42	1,46	0,00	0,63	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.984,00		13,22	8,42	1,66	0,00	0,67	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.985,00		13,22	8,42	1,78	0,00	0,88	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.986,00		13,17	8,42	1,80	0,00	0,93	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.987,00		13,63	8,42	3,17	0,00	0,87	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.988,00		13,76	8,42	4,31	0,00	0,81	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.989,00		13,89	8,42	6,12	0,00	0,71	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.990,00		14,45	8,42	8,73	0,00	0,83	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.991,00		14,88	8,42	12,20	0,00	0,84	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.992,00		13,50	8,42	1,54	0,00	1,05	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.992,44		13,50	8,42	1,80	0,00	1,18	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.992,64		13,60	8,42	1,94	0,00	1,21	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.992,78		13,52	8,42	1,71	0,00	1,11	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.992,91		13,52	8,42	1,61	0,00	1,11	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.993,00		13,46	8,42	1,60	0,00	1,12	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.993,50		12,95	8,42	1,37	0,00	1,23	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.994,00		6,32	4,82	0,00	0,00	1,44	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.994,50		6,32	4,82	0,00	0,00	1,48	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.995,00		6,32	4,82	0,00	0,00	1,32	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.995,50		6,32	4,82	0,00	0,00	1,13	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.996,00		6,32	4,82	0,00	0,00	0,90	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.996,28		6,32	4,82	0,00	0,00	0,76	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.996,50		6,32	4,82	0,00	0,00	0,65	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.997,00		6,32	4,82	0,04	0,00	0,50	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.997,50		6,32	4,82	0,04	0,00	0,43	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.998,00		6,32	4,82	0,05	0,00	0,36	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.998,50		6,32	4,82	0,16	0,00	0,29	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.004,78	54.125,95	-37.121,17	0,00	0,00
28.998,94	4,36	6,32	4,82	0,23	55,13	0,27	11,03	26,93	15,90	26,93	2,44	2,44	25,23	0,00	31,53	17.020,68	54.157,49	-37.136,80	15,90	-15,63
28.999,00	0,64	13,75	8,11	6,82	12,81	0,35	2,56	9,45	6,89	9,45	0,40	0,40	4,95	0,00	6,19	17.027,58	54.163,68	-37.136,10	6,19	0,70
28.999,50	5,00	13,61	8,11	6,40	136,78	0,40	27,36	114,76	87,40	114,76	3,75	3,75	48,66	0,00	60,83	17.114,98	54.224,50	-37.109,52	60,83	26,58
29.000,00	5,00	13,79	8,11	6,05	136,97	0,53	27,39	110,91	83,52	110,91	4,65	4,65	48,66	0,00	60,83	17.198,50	54.285,33	-37.086,83	60,83	22,69
29.000,45	4,51	13,95	8,11	5,80	125,07	0,67	25,01	97,33	72,32	97,33	5,41	5,41	43,89	0,00	54,86	17.270,82	54.340,19	-37.069,38	54,86	17,46

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
29.000,50	0,49	13,94	8,11	5,80	13,67	0,66	2,73	10,45	7,72	10,45	0,65	0,65	4,77	0,00	5,96	17.278,54	54.346,15	-37.067,62	5,96	1,76
29.001,00	5,00	13,99	8,11	5,79	139,68	0,70	27,94	106,61	78,67	106,61	6,80	6,80	48,66	0,00	60,83	17.357,21	54.406,98	-37.049,77	60,83	17,85
29.001,50	5,00	14,12	8,11	5,87	140,56	0,76	28,11	106,96	78,85	106,96	7,30	7,30	48,66	0,00	60,83	17.436,06	54.467,80	-37.031,74	60,83	18,02
29.001,66	1,62	14,14	8,11	5,89	45,92	0,75	9,18	34,92	25,74	34,92	2,45	2,45	15,81	0,00	19,77	17.461,80	54.487,57	-37.025,77	19,77	5,97
29.002,00	3,38	14,12	8,11	5,96	95,38	0,68	19,08	72,84	53,76	72,84	4,83	4,83	32,85	0,00	41,06	17.515,56	54.528,63	-37.013,07	41,06	12,71
29.002,50	5,00	14,45	8,11	6,01	142,86	0,71	28,57	108,51	79,94	108,51	6,95	6,95	48,66	0,00	60,83	17.595,50	54.589,45	-36.993,95	60,83	19,11
29.003,00	5,00	17,15	8,11	6,03	158,00	3,13	31,60	108,86	77,26	108,86	19,20	19,20	48,66	0,00	60,83	17.672,76	54.650,28	-36.977,52	60,83	16,43
29.003,18	1,76	18,89	8,11	6,12	63,33	4,34	12,67	38,46	25,79	38,46	13,13	13,13	17,10	0,00	21,38	17.698,55	54.671,66	-36.973,11	21,38	4,41
29.003,50		6,32	4,82	0,05	0,00	0,49	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.004,00		6,32	4,82	0,07	0,00	0,37	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.004,50		6,32	4,82	0,05	0,00	0,25	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.005,00		6,32	4,82	0,13	0,00	0,20	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.005,50		6,32	4,82	0,19	0,00	0,22	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.006,00		6,32	4,82	0,08	0,00	0,34	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.006,29		6,32	4,82	0,01	0,00	0,48	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.006,50		6,32	4,82	0,00	0,00	0,62	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.007,00		6,32	4,82	0,00	0,00	0,71	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.007,50		14,46	8,42	1,46	0,00	0,97	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.008,00		14,60	8,42	1,55	0,00	1,01	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.008,50		14,87	8,42	1,73	0,00	1,07	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.009,00		14,65	8,42	1,68	0,00	0,97	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.009,50		14,36	8,42	1,67	0,00	0,93	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.010,00		14,02	8,42	2,28	0,00	1,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.010,50		13,80	8,42	2,71	0,00	0,83	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.011,00		13,52	8,42	3,14	0,00	0,63	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.011,50		13,40	8,42	3,10	0,00	0,64	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.012,00		13,54	8,42	2,75	0,00	0,78	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.012,50		13,65	8,42	2,75	0,00	0,91	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.013,00		13,52	8,42	2,18	0,00	0,89	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.013,50		13,33	8,42	2,20	0,00	0,86	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.014,00		13,25	8,42	2,11	0,00	0,84	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00
29.014,50		13,25	8,42	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	17.698,55	54.671,66	-36.973,11	0,00	0,00

1.4.3 PR-180 – Eixo

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
4.000,00		14,69	7,20																	
4.000,08	0,82	14,65	7,20	3,70	24,10	2,72	4,82	10,14	5,32	10,14	2,23	2,23	7,10	0,00	8,87	5,32	8,87	-3,56	5,32	-3,56
4.000,50	4,18	14,55	7,20	3,57	122,00	3,33	24,40	66,48	42,08	66,48	25,28	25,28	36,10	0,00	45,13	47,40	54,00	-6,60	42,08	-3,05
4.001,00	5,00	14,57	7,20	3,43	145,58	3,38	29,12	78,20	49,08	78,20	33,55	33,55	43,20	0,00	54,00	96,48	108,00	-11,52	49,08	-4,92
4.001,50	5,00	14,93	7,20	3,60	147,50	2,56	29,50	78,35	48,85	78,35	29,70	29,70	43,20	0,00	54,00	145,33	162,00	-16,67	48,85	-5,15
4.002,00	5,00	15,86	7,20	5,04	153,98	1,84	30,80	86,40	55,60	86,40	22,00	22,00	43,20	0,00	54,00	200,94	216,00	-15,06	54,00	1,60
4.002,50	5,00	15,94	7,20	4,19	159,01	2,02	31,80	89,35	57,55	89,35	19,30	19,30	43,20	0,00	54,00	258,48	270,00	-11,52	54,00	3,55
4.003,00	5,00	15,94	7,20	5,10	159,42	1,83	31,88	89,65	57,77	89,65	19,25	19,25	43,20	0,00	54,00	316,25	324,00	-7,75	54,00	3,77
4.003,50	5,00	15,87	7,20	3,83	159,09	1,68	31,82	87,85	56,03	87,85	17,55	17,55	43,20	0,00	54,00	372,28	378,00	-5,72	54,00	2,03
4.004,00	5,00	15,18	7,20	4,97	155,25	1,05	31,05	87,20	56,15	87,20	13,65	13,65	43,20	0,00	54,00	428,43	432,00	-3,57	54,00	2,15
4.004,50	5,00	14,74	7,20	4,09	149,60	1,08	29,92	88,50	58,58	88,50	10,65	10,65	43,20	0,00	54,00	487,01	486,00	1,01	54,00	4,58
4.005,00	5,00	14,73	7,20	3,74	147,36	1,13	29,47	82,35	52,88	82,35	11,05	11,05	43,20	0,00	54,00	539,89	540,00	-0,11	52,88	-1,12
4.005,50	5,00	14,72	7,20	4,96	147,24	1,35	29,45	86,70	57,25	86,70	12,40	12,40	43,20	0,00	54,00	597,14	594,00	3,14	54,00	3,25
4.005,83	3,32	14,73	7,20	5,31	97,83	1,78	19,57	62,81	43,24	62,81	10,40	10,40	28,70	0,00	35,87	640,39	629,87	10,51	35,87	7,37
4.006,00	1,68	14,72	7,20	5,40	49,43	1,82	9,89	32,48	22,59	32,48	6,04	6,04	14,50	0,00	18,13	662,98	648,00	14,98	18,13	4,46
4.006,50	5,00	14,99	7,20	5,88	148,53	2,84	29,71	99,60	69,89	99,60	23,30	23,30	43,20	0,00	54,00	732,87	702,00	30,87	54,00	15,89
4.007,00	5,00	14,04	7,20	5,28	145,17	0,69	29,03	99,00	69,97	99,00	17,65	17,65	43,20	0,00	54,00	802,84	756,00	46,84	54,00	15,97
4.007,50	5,00	14,01	7,20	5,29	140,29	0,67	28,06	96,05	67,99	96,05	6,80	6,80	43,20	0,00	54,00	870,83	810,00	60,83	54,00	13,99
4.008,00	5,00	14,05	7,20	5,26	140,31	0,71	28,06	95,95	67,89	95,95	6,90	6,90	43,20	0,00	54,00	938,72	864,00	74,72	54,00	13,89
4.008,50	5,00	14,08	7,20	4,83	140,63	0,87	28,13	93,65	65,52	93,65	7,90	7,90	43,20	0,00	54,00	1.004,24	918,00	86,24	54,00	11,52
4.009,00	5,00	14,08	7,20	4,25	140,77	1,08	28,15	88,60	60,45	88,60	9,75	9,75	43,20	0,00	54,00	1.064,69	972,00	92,69	54,00	6,45
4.009,19	1,86	14,06	7,20	4,06	52,32	1,14	10,46	31,51	21,05	31,51	4,13	4,13	16,06	0,00	20,08	1.085,74	992,08	93,66	20,08	0,97
4.009,50	3,14	13,81	7,20	3,55	87,56	1,38	17,51	51,04	33,53	51,04	7,92	7,92	27,14	0,00	33,92	1.119,26	1.026,00	93,26	33,53	-0,39

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
4.010,00	5,00	14,15	7,20	2,97	139,82	1,94	27,96	75,80	47,84	75,80	16,60	16,60	43,20	0,00	54,00	1.167,10	1.080,00	87,10	47,84	-6,16
4.010,50	5,00	14,31	7,20	1,92	142,31	2,42	28,46	67,65	39,19	67,65	21,80	21,80	43,20	0,00	54,00	1.206,29	1.134,00	72,29	39,19	-14,81
4.011,00	5,00	14,62	7,20	1,25	144,65	3,09	28,93	59,05	30,12	59,05	27,55	27,55	43,20	0,00	54,00	1.236,41	1.188,00	48,41	30,12	-23,88
4.011,50	5,00	14,75	7,20	1,03	146,83	3,47	29,37	54,60	25,23	54,60	32,80	32,80	43,20	0,00	54,00	1.261,64	1.242,00	19,64	25,23	-28,77
4.012,00	5,00	14,72	7,20	1,10	147,34	3,38	29,47	53,85	24,38	53,85	34,25	34,25	43,20	0,00	54,00	1.286,03	1.296,00	-9,97	24,38	-29,62
4.012,50	5,00	14,43	7,20	1,64	145,77	2,70	29,15	56,90	27,75	56,90	30,40	30,40	43,20	0,00	54,00	1.313,77	1.350,00	-36,23	27,75	-26,25
4.012,54	0,40	14,41	7,20	1,68	11,45	2,65	2,29	4,75	2,46	4,75	2,12	2,12	3,43	0,00	4,29	1.316,23	1.354,29	-38,06	2,46	-1,83
4.013,00	4,60	14,16	7,20	2,07	131,51	2,14	26,30	57,03	30,73	57,03	22,05	22,05	39,77	0,00	49,71	1.346,96	1.404,00	-57,04	30,73	-18,98
4.013,50	5,00	14,02	7,20	2,82	140,86	1,66	28,17	67,65	39,48	67,65	19,00	19,00	43,20	0,00	54,00	1.386,44	1.458,00	-71,56	39,48	-14,52
4.014,00	5,00	13,85	7,20	3,06	139,34	1,36	27,87	72,60	44,73	72,60	15,10	15,10	43,20	0,00	54,00	1.431,17	1.512,00	-80,83	44,73	-9,27
4.014,50	5,00	13,56	7,20	3,30	137,07	0,78	27,41	75,00	47,59	75,00	10,70	10,70	43,20	0,00	54,00	1.478,76	1.566,00	-87,24	47,59	-6,41
4.015,00	5,00	14,02	7,20	4,11	137,91	0,62	27,58	80,25	52,67	80,25	7,00	7,00	43,20	0,00	54,00	1.531,42	1.620,00	-88,58	52,67	-1,33
4.015,50	5,00	14,06	7,20	3,90	140,41	0,40	28,08	83,25	55,17	83,25	5,10	5,10	43,20	0,00	54,00	1.586,59	1.674,00	-87,41	54,00	1,17
4.016,00	5,00	14,42	7,20	3,91	142,43	0,82	28,49	82,25	53,76	82,25	6,10	6,10	43,20	0,00	54,00	1.640,36	1.728,00	-87,64	53,76	-0,24
4.016,50	5,00	15,05	7,20	4,40	147,37	1,47	29,47	84,75	55,28	84,75	11,45	11,45	43,20	0,00	54,00	1.695,63	1.782,00	-86,37	54,00	1,28
4.017,00	5,00	15,05	7,20	5,16	150,54	1,22	30,11	91,00	60,89	91,00	13,45	13,45	43,20	0,00	54,00	1.756,52	1.836,00	-79,48	54,00	6,89
4.017,50	5,00	15,07	7,20	5,83	150,62	1,00	30,12	98,15	68,03	98,15	11,10	11,10	43,20	0,00	54,00	1.824,55	1.890,00	-65,45	54,00	14,03
4.018,00	5,00	15,18	7,20	5,89	151,25	1,09	30,25	101,80	71,55	101,80	10,45	10,45	43,20	0,00	54,00	1.896,10	1.944,00	-47,90	54,00	17,55
4.018,29	2,90	15,22	7,20	5,88	88,07	1,10	17,61	59,13	41,51	59,13	6,34	6,34	25,03	0,00	31,29	1.937,61	1.975,29	-37,67	31,29	10,23
4.018,32	0,26	15,22	7,20	5,87	8,01	1,10	1,60	5,36	3,76	5,36	0,58	0,58	2,27	0,00	2,84	1.941,38	1.978,13	-36,75	2,84	0,92
4.018,50	1,84	15,28	7,20	5,81	56,12	1,21	11,22	37,39	26,16	37,39	4,25	4,25	15,90	0,00	19,87	1.967,54	1.998,00	-30,46	19,87	6,29
4.019,00	5,00	15,34	7,20	4,81	153,11	1,53	30,62	96,30	65,68	96,30	13,70	13,70	43,20	0,00	54,00	2.033,22	2.052,00	-18,78	54,00	11,68
4.019,50	5,00	15,36	7,20	3,86	153,51	1,84	30,70	86,55	55,85	86,55	16,85	16,85	43,20	0,00	54,00	2.089,07	2.106,00	-16,93	54,00	1,85
4.020,00	5,00	15,39	7,20	2,81	153,75	2,25	30,75	76,55	45,80	76,55	20,45	20,45	43,20	0,00	54,00	2.134,86	2.160,00	-25,14	45,80	-8,20
4.020,50	5,00	15,52	7,20	1,76	154,54	3,21	30,91	66,05	35,14	66,05	27,30	27,30	43,20	0,00	54,00	2.170,01	2.214,00	-43,99	35,14	-18,86

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
4.021,00	5,00	15,70	7,20	0,94	156,12	4,76	31,22	56,70	25,48	56,70	39,85	39,85	43,20	0,00	54,00	2.195,48	2.268,00	-72,52	25,48	-28,52
4.021,50	5,00	15,87	7,20	0,33	157,85	6,85	31,57	49,55	17,98	49,55	58,05	58,05	43,20	14,85	72,56	2.213,46	2.340,56	-127,10	17,98	-54,58
4.022,00	5,00	16,01	7,20	0,43	159,36	7,19	31,87	47,00	15,13	47,00	70,20	70,20	43,20	27,00	87,75	2.228,59	2.428,31	-199,72	15,13	-72,62
4.022,50	5,00	16,01	7,20	1,10	160,08	5,72	32,02	50,85	18,83	50,85	64,55	64,55	43,20	21,35	80,69	2.247,42	2.509,00	-261,58	18,83	-61,85
4.023,00	5,00	16,09	7,20	3,22	160,52	3,63	32,10	64,80	32,70	64,80	46,75	46,75	43,20	3,55	58,44	2.280,12	2.567,44	-287,32	32,70	-25,74
4.023,50	5,00	16,17	7,20	7,22	161,32	1,89	32,26	95,40	63,14	95,40	27,60	27,60	43,20	0,00	54,00	2.343,26	2.621,44	-278,18	54,00	9,14
4.024,00	5,00	15,99	7,20	12,22	160,80	0,25	32,16	140,40	108,24	140,40	10,70	10,70	43,20	0,00	54,00	2.451,50	2.675,44	-223,94	54,00	54,24
4.024,07	0,66	15,95	7,20	13,08	21,08	0,09	4,22	22,40	18,18	22,40	0,22	0,22	5,70	0,00	7,13	2.469,68	2.682,57	-212,89	7,13	11,06
4.024,50	4,34	17,32	7,20	21,27	144,41	0,00	28,88	186,58	157,69	186,58	0,39	0,39	37,50	0,00	46,87	2.627,37	2.729,44	-102,06	46,87	110,82
4.025,00	5,00	18,81	7,20	30,99	180,66	0,00	36,13	304,50	268,37	304,50	0,00	0,00	43,20	0,00	54,00	2.895,74	2.783,44	112,31	54,00	214,37
4.025,50	5,00	20,40	7,20	41,22	196,05	0,00	39,21	404,25	365,04	404,25	0,00	0,00	43,20	0,00	54,00	3.260,78	2.837,44	423,35	54,00	311,04
4.025,54	0,37	20,51	7,20	42,02	14,95	0,00	2,99	33,58	30,59	33,58	0,00	0,00	3,16	0,00	3,95	3.291,37	2.841,38	449,99	3,95	26,64
4.026,00	4,63	21,97	7,20	52,75	196,87	0,00	39,37	479,25	439,88	479,25	0,00	0,00	40,04	0,00	50,05	3.731,25	2.891,44	839,82	50,05	389,83
4.026,50	5,00	23,34	7,20	64,98	226,54	0,00	45,31	631,85	586,54	631,85	0,00	0,00	43,20	0,00	54,00	4.317,80	2.945,44	1.372,36	54,00	532,54
4.027,00	5,00	24,55	7,20	75,57	239,45	0,00	47,89	745,95	698,06	745,95	0,00	0,00	43,20	0,00	54,00	5.015,85	2.999,44	2.016,42	54,00	644,06
4.027,01	0,07	24,57	7,20	75,71	3,51	0,00	0,70	11,43	10,73	11,43	0,00	0,00	0,62	0,00	0,77	5.026,59	3.000,21	2.026,38	0,77	9,96
4.027,50	4,93	25,76	7,20	85,16	248,05	0,00	49,61	835,43	785,82	835,43	0,00	0,00	42,58	0,00	53,23	5.812,41	3.053,44	2.758,97	53,23	732,59
4.028,00	5,00	26,97	7,20	98,06	263,67	0,00	52,73	959,30	906,57	959,30	0,00	0,00	43,20	0,00	54,00	6.718,97	3.107,44	3.611,54	54,00	852,57
4.028,50	5,00	28,47	7,20	111,66	277,25	0,00	55,45	1.091,80	1.036,35	1.091,80	0,00	0,00	43,20	0,00	54,00	7.755,32	3.161,44	4.593,89	54,00	982,35
4.029,00	5,00	29,85	7,20	124,95	291,64	0,00	58,33	1.226,25	1.167,92	1.226,25	0,00	0,00	43,20	0,00	54,00	8.923,25	3.215,44	5.707,81	54,00	1.113,92
4.029,50	5,00	30,55	7,20	131,74	302,01	0,00	60,40	1.326,65	1.266,25	1.326,65	0,00	0,00	43,20	0,00	54,00	10.189,49	3.269,44	6.920,06	54,00	1.212,25
4.030,00	5,00	31,77	7,20	141,45	311,61	0,00	62,32	1.409,15	1.346,83	1.409,15	0,00	0,00	43,20	0,00	54,00	11.536,32	3.323,44	8.212,89	54,00	1.292,83
4.030,50	5,00	32,51	7,20	149,88	321,41	0,00	64,28	1.499,85	1.435,57	1.499,85	0,00	0,00	43,20	0,00	54,00	12.971,89	3.377,44	9.594,45	54,00	1.381,57
4.031,00	5,00	32,91	7,20	153,27	327,11	0,00	65,42	1.558,95	1.493,53	1.558,95	0,00	0,00	43,20	0,00	54,00	14.465,42	3.431,44	11.033,98	54,00	1.439,53
4.031,50	5,00	33,12	7,20	153,40	330,19	0,00	66,04	1.576,55	1.510,51	1.576,55	0,00	0,00	43,20	0,00	54,00	15.975,93	3.485,44	12.490,49	54,00	1.456,51

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
4.032,00	5,00	33,17	7,20	152,98	331,50	0,00	66,30	1.575,10	1.508,80	1.575,10	0,00	0,00	43,20	0,00	54,00	17.484,73	3.539,44	13.945,30	54,00	1.454,80
4.032,50	5,00	33,16	7,20	151,86	331,68	0,00	66,34	1.567,40	1.501,06	1.567,40	0,00	0,00	43,20	0,00	54,00	18.985,80	3.593,44	15.392,36	54,00	1.447,06
4.032,76	2,57	33,21	7,20	152,41	170,67	0,00	34,13	804,65	770,52	804,65	0,00	0,00	22,22	0,00	27,78	19.756,32	3.621,22	16.135,10	27,78	742,74
4.033,00	2,43	33,51	7,54	152,89	162,03	0,00	32,41	762,90	730,49	762,90	0,00	0,00	21,47	0,00	26,84	20.486,80	3.648,06	16.838,75	26,84	703,65
4.033,50	5,00	33,51	7,54	0,00	335,12	0,00	67,02	809,66	742,64	809,66	0,00	0,00	45,21	0,00	56,51	21.229,44	3.704,57	17.524,87	56,51	686,12
4.034,00	5,00	33,51	7,54	0,00	335,12	0,00	67,02	45,21	0,00	67,02	0,00	67,02	45,21	21,81	83,78	21.229,44	3.788,35	17.441,09	0,00	-83,78
4.034,38	3,81	33,51	7,54	0,00	255,66	0,00	51,13	34,49	0,00	51,13	0,00	51,13	34,49	16,64	63,92	21.229,44	3.852,27	17.377,17	0,00	-63,92

1.4.4 Rotatória Norte

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
10,00		30,70	11,00																	
10,50	5,00	31,85	11,00	81,63	312,76	0,00	62,55	474,15	411,60	474,15	0,00	0,00	66,00	0,00	82,50	411,60	82,50	329,10	82,50	329,10
11,00	5,00	32,14	11,00	81,09	319,93	0,00	63,99	879,60	815,61	879,60	0,00	0,00	66,00	0,00	82,50	1.227,21	165,00	1.062,21	82,50	733,11
11,50	5,00	30,21	11,00	66,18	311,74	0,00	62,35	802,35	740,00	802,35	0,00	0,00	66,00	0,00	82,50	1.967,21	247,50	1.719,71	82,50	657,50
12,00	5,00	27,39	11,00	46,32	288,00	0,00	57,60	628,50	570,90	628,50	0,00	0,00	66,00	0,00	82,50	2.538,11	330,00	2.208,11	82,50	488,40
12,36	3,56	25,53	11,00	33,93	188,52	0,00	37,70	332,87	295,17	332,87	0,00	0,00	47,02	0,00	58,77	2.833,28	388,77	2.444,51	58,77	236,39
12,50	1,44	24,85	11,00	29,24	72,45	0,00	14,49	109,82	95,33	109,82	0,00	0,00	18,98	0,00	23,73	2.928,61	412,50	2.516,11	23,73	71,60
13,00	5,00	23,27	11,00	19,27	240,61	0,00	48,12	308,55	260,43	308,55	0,00	0,00	66,00	0,00	82,50	3.189,04	495,00	2.694,04	82,50	177,93
13,50	5,00	23,45	11,00	20,79	233,63	0,00	46,73	266,30	219,57	266,30	0,00	0,00	66,00	0,00	82,50	3.408,61	577,50	2.831,11	82,50	137,07
14,00	5,00	26,78	11,25	39,51	251,18	0,00	50,24	368,25	318,02	368,25	0,00	0,00	66,75	0,00	83,44	3.726,63	660,94	3.065,69	83,44	234,57
14,50	5,00	29,61	11,00	63,46	281,96	0,00	56,39	581,60	525,21	581,60	0,00	0,00	66,75	0,00	83,44	4.251,84	744,38	3.507,46	83,44	441,77
14,71	2,12	30,71	11,00	0,00	128,10	0,00	25,62	162,83	137,21	162,83	0,00	0,00	28,04	0,00	35,05	4.389,04	779,43	3.609,62	35,05	102,16

1.4.5 Rotatória Sul

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
20,00		39,60	11,00																	
20,50	5,00	34,83	11,00	106,40	372,15	0,00	74,43	598,00	523,57	598,00	0,00	0,00	66,00	0,00	82,50	523,57	82,50	441,07	82,50	441,07
21,00	5,00	35,30	11,00	112,14	350,67	0,00	70,13	1.158,70	1.088,57	1.158,70	0,00	0,00	66,00	0,00	82,50	1.612,14	165,00	1.447,14	82,50	1.006,07
21,50	5,00	37,29	11,00	127,85	362,95	0,00	72,59	1.265,95	1.193,36	1.265,95	0,00	0,00	66,00	0,00	82,50	2.805,49	247,50	2.557,99	82,50	1.110,86
22,00	5,00	39,01	11,00	146,12	381,49	0,00	76,30	1.435,85	1.359,55	1.435,85	0,00	0,00	66,00	0,00	82,50	4.165,05	330,00	3.835,05	82,50	1.277,05
22,36	3,56	39,01	11,00	155,48	277,89	0,00	55,58	1.121,16	1.065,58	1.121,16	0,00	0,00	47,01	0,00	58,76	5.230,63	388,76	4.841,86	58,76	1.006,82
22,50	1,44	40,41	11,00	159,08	114,25	0,00	22,85	471,48	448,63	471,48	0,00	0,00	18,99	0,00	23,74	5.679,26	412,50	5.266,76	23,74	424,90
23,00	5,00	41,25	11,00	167,99	408,31	0,00	81,66	1.701,35	1.619,69	1.701,35	0,00	0,00	66,00	0,00	82,50	7.298,95	495,00	6.803,95	82,50	1.537,19
23,50	5,00	40,57	11,00	161,04	409,14	0,00	81,83	1.711,15	1.629,32	1.711,15	0,00	0,00	66,00	0,00	82,50	8.928,27	577,50	8.350,77	82,50	1.546,82
24,00	5,00	39,52	11,60	149,14	400,48	0,00	80,10	1.618,70	1.538,60	1.618,70	0,00	0,00	67,80	0,00	84,75	10.466,87	662,25	9.804,63	84,75	1.453,85
24,50	5,00	38,82	11,00	129,59	391,73	0,00	78,35	1.461,45	1.383,10	1.461,45	0,00	0,00	67,80	0,00	84,75	11.849,97	746,99	11.102,98	84,75	1.298,35
24,71	2,12	38,82	11,00	123,33	164,88	0,00	32,98	565,11	532,13	565,11	0,00	0,00	28,03	0,00	35,04	12.382,10	782,03	11.600,07	35,04	497,09

1.4.6 Ramo 600

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
600,59		16,68	7,50																	
600,96	3,68	16,35	7,50	9,00	121,61	0,00	24,32	66,28	41,96	66,28	0,00	0,00	33,14	0,00	41,43	41,96	41,43	0,54	41,43	0,54
601,00	0,43	16,30	7,50	8,79	14,09	0,00	2,82	11,56	8,74	11,56	0,00	0,00	3,88	0,00	4,85	50,71	46,28	4,42	4,85	3,89
601,50	5,00	15,02	7,50	4,60	156,60	0,13	31,32	111,95	80,63	111,95	0,65	0,65	45,00	0,00	56,25	131,34	102,53	28,80	56,25	24,38
602,00	5,00	15,06	7,50	0,50	150,40	0,92	30,08	70,50	40,42	70,50	5,25	5,25	45,00	0,00	56,25	171,76	158,78	12,97	40,42	-15,83
602,50	5,00	16,22	7,50	0,00	156,38	4,78	31,28	19,00	0,00	31,28	28,50	59,78	45,00	14,78	74,72	171,76	233,50	-61,75	0,00	-74,72
602,65	1,48	16,68	7,50	0,00	48,55	6,56	9,71	0,00	0,00	9,71	16,73	26,44	13,28	13,16	33,05	171,76	266,56	-94,80	0,00	-33,05
603,00	3,52	17,35	7,50	0,00	119,95	9,15	23,99	0,00	0,00	23,99	55,37	79,36	31,72	47,64	99,20	171,76	365,76	-194,00	0,00	-99,20
603,50	5,00	17,33	7,50	0,00	173,40	8,12	34,68	0,00	0,00	34,68	86,35	121,03	45,00	76,03	151,29	171,76	517,04	-345,29	0,00	-151,29
603,84	3,42	17,33	7,50	0,70	118,46	0,83	23,69	33,15	9,46	33,15	30,59	30,59	30,76	0,00	38,45	181,21	555,49	-374,27	9,46	-28,99
604,00	1,58	14,39	7,50	2,34	50,20	0,29	10,04	19,05	9,01	19,05	1,77	1,77	14,24	0,00	17,80	190,23	573,29	-383,06	9,01	-8,79
604,50	5,00	16,24	7,50	8,49	153,17	0,00	30,63	99,15	68,52	99,15	1,45	1,45	45,00	0,00	56,25	258,74	629,54	-370,80	56,25	12,27
605,00	5,00	16,57	7,50	11,43	164,07	0,00	32,81	144,60	111,79	144,60	0,00	0,00	45,00	0,00	56,25	370,53	685,79	-315,26	56,25	55,54
605,50	5,00	15,92	7,50	7,40	162,44	0,00	32,49	139,15	106,66	139,15	0,00	0,00	45,00	0,00	56,25	477,19	742,04	-264,85	56,25	50,41
606,00	5,00	15,24	7,50	4,58	155,79	0,00	31,16	104,90	73,74	104,90	0,00	0,00	45,00	0,00	56,25	550,93	798,29	-247,36	56,25	17,49
606,50	5,00	13,99	7,50	2,88	146,14	0,11	29,23	82,30	53,07	82,30	0,55	0,55	45,00	0,00	56,25	604,01	854,54	-250,54	53,07	-3,18
607,00	5,00	13,99	7,50	3,51	139,89	0,09	27,98	76,95	48,97	76,95	1,00	1,00	45,00	0,00	56,25	652,98	910,79	-257,81	48,97	-7,28

1.4.7 Ramo 700

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
705,00		15,61	7,50																	
705,36	3,59	15,01	7,50	0,00	110,07	2,95	22,01	21,75	0,00	22,01	10,60	32,62	32,35	0,27	40,77	0,00	40,77	-40,77	0,00	-40,77
705,50	1,41	14,83	7,50	0,00	41,93	2,80	8,39	4,57	0,00	8,39	8,08	16,47	12,65	3,82	20,59	0,00	61,36	-61,36	0,00	-20,59
706,00	5,00	15,37	7,50	0,00	150,98	3,06	30,20	15,70	0,00	30,20	29,30	59,50	45,00	14,50	74,37	0,00	135,73	-135,73	0,00	-74,37
706,50	5,00	14,55	7,50	0,35	149,60	0,53	29,92	46,75	16,83	46,75	17,95	17,95	45,00	0,00	56,25	16,83	191,98	-175,15	16,83	-39,42
706,84	3,42	15,76	7,50	4,96	103,78	0,14	20,76	48,99	28,24	48,99	2,29	2,29	30,81	0,00	38,51	45,07	230,49	-185,43	28,24	-10,28
707,00	1,58	15,82	7,50	7,65	49,80	0,00	9,96	34,07	24,11	34,07	0,22	0,22	14,19	0,00	17,74	69,17	248,23	-179,05	17,74	6,37
707,50	5,00	17,77	7,50	16,64	167,96	0,00	33,59	166,45	132,86	166,45	0,00	0,00	45,00	0,00	56,25	202,03	304,48	-102,44	56,25	76,61
708,00	5,00	19,18	7,50	22,49	184,74	0,00	36,95	240,65	203,70	240,65	0,00	0,00	45,00	0,00	56,25	405,74	360,73	45,01	56,25	147,45
708,33	3,25	19,79	7,50	24,88	126,75	0,00	25,35	183,34	157,99	183,34	0,00	0,00	29,27	0,00	36,59	563,73	397,32	166,41	36,59	121,40
708,50	1,75	20,05	7,50	26,06	69,63	0,00	13,93	104,75	90,82	104,75	0,00	0,00	15,73	0,00	19,66	654,55	416,98	237,57	19,66	71,16
709,00	5,00	21,01	7,50	30,04	205,30	0,00	41,06	325,50	284,44	325,50	0,00	0,00	45,00	0,00	56,25	938,99	473,23	465,76	56,25	228,19
709,50	5,00	22,13	7,50	36,31	215,70	0,00	43,14	376,75	333,61	376,75	0,00	0,00	45,00	0,00	56,25	1.272,60	529,48	743,12	56,25	277,36
710,00	5,00	23,52	7,50	44,83	228,27	0,00	45,65	450,70	405,05	450,70	0,00	0,00	45,00	0,00	56,25	1.677,65	585,73	1.091,92	56,25	348,80
710,50	5,00	24,84	7,50	52,77	241,81	0,00	48,36	533,00	484,64	533,00	0,00	0,00	45,00	0,00	56,25	2.162,28	641,98	1.520,31	56,25	428,39
711,00	5,00	26,08	7,50	61,80	254,58	0,00	50,92	617,85	566,93	617,85	0,00	0,00	45,00	0,00	56,25	2.729,22	698,23	2.030,99	56,25	510,68
711,50	5,00	27,14	7,50	69,22	266,10	0,00	53,22	700,10	646,88	700,10	0,00	0,00	45,00	0,00	56,25	3.376,10	754,48	2.621,62	56,25	590,63
712,00	5,00	28,24	7,50	76,79	276,92	0,00	55,38	775,05	719,67	775,05	0,00	0,00	45,00	0,00	56,25	4.095,76	810,73	3.285,04	56,25	663,42
712,05	0,55	28,31	7,50	77,43	30,99	0,00	6,20	89,44	83,25	89,44	0,00	0,00	4,93	0,00	6,17	4.179,01	816,89	3.362,12	6,17	77,08
712,50	4,45	28,97	7,50	82,74	255,05	0,00	51,01	753,14	702,14	753,14	0,00	0,00	40,07	0,00	50,09	4.881,15	866,98	4.014,17	50,09	652,05
712,77	2,70	29,48	7,50	84,82	157,81	0,00	31,56	476,62	445,06	476,62	0,00	0,00	24,30	0,00	30,37	5.326,21	897,35	4.428,86	30,37	414,69

1.4.8 Ramo 800

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
801,00		15,97	9,00																	
801,50	5,00	15,95	8,91	4,61	159,63	0,05	31,93	76,77	44,85	76,77	0,25	0,25	53,72	0,00	67,16	44,85	67,16	-22,31	44,85	-22,31
801,72	2,16	15,81	8,78	4,80	68,53	0,03	13,71	43,21	29,50	43,21	0,17	0,17	22,91	0,00	28,63	74,35	95,79	-21,43	28,63	0,87
802,00	2,84	16,37	8,58	5,52	91,44	0,00	18,29	58,94	40,65	58,94	0,09	0,09	29,61	0,00	37,01	115,00	132,80	-17,79	37,01	3,64
802,50	5,00	16,39	8,26	7,36	163,79	0,00	32,76	114,93	82,17	114,93	0,00	0,00	50,53	0,00	63,16	197,17	195,95	1,22	63,16	19,01
802,99	4,90	17,01	7,99	10,30	163,73	0,00	32,75	134,36	101,61	134,36	0,00	0,00	47,79	0,00	59,74	298,78	255,69	43,09	59,74	41,88
803,00	0,10	17,02	7,98	10,39	3,34	0,00	0,67	2,97	2,30	2,97	0,00	0,00	0,94	0,00	1,17	301,08	256,86	44,22	1,17	1,13
803,50	5,00	18,25	7,74	17,88	176,39	0,00	35,28	188,53	153,25	188,53	0,00	0,00	47,18	0,00	58,97	454,33	315,83	138,50	58,97	94,28
804,00	5,00	19,83	7,55	26,54	190,40	0,00	38,08	267,98	229,90	267,98	0,00	0,00	45,88	0,00	57,35	684,23	373,18	311,05	57,35	172,55
804,26	2,65	20,73	7,50	31,56	107,31	0,00	21,46	177,62	156,16	177,62	0,00	0,00	23,89	0,00	29,86	840,39	403,04	437,34	29,86	126,30
804,28	0,16	20,73	7,50	31,88	6,61	0,00	1,32	11,55	10,23	11,55	0,00	0,00	1,44	0,00	1,79	850,62	404,84	445,78	1,79	8,44
804,50	2,19	21,59	7,50	36,32	92,86	0,00	18,57	169,42	150,84	169,42	0,00	0,00	19,75	0,00	24,69	1.001,46	429,53	571,93	24,69	126,15
804,81	3,08	21,59	7,50	43,67	133,11	0,00	26,62	274,36	247,74	274,36	0,00	0,00	27,75	0,00	34,68	1.249,20	464,21	784,99	34,68	213,05
805,00	1,92	23,57	7,50	48,25	86,56	0,00	17,31	193,46	176,15	193,46	0,00	0,00	17,25	0,00	21,57	1.425,35	485,78	939,57	21,57	154,58
805,19	1,88	24,31	7,50	52,38	90,16	0,00	18,03	206,43	188,40	206,43	0,00	0,00	16,95	0,00	21,18	1.613,75	506,96	1.106,79	21,18	167,22
805,34	1,48	24,31	7,50	54,88	71,87	0,00	14,37	171,83	157,46	171,83	0,00	0,00	13,30	0,00	16,63	1.771,21	523,59	1.247,62	16,63	140,83
805,50	1,64	25,18	7,50	58,12	81,12	0,00	16,22	199,96	183,73	199,96	0,00	0,00	14,75	0,00	18,44	1.954,94	542,03	1.412,91	18,44	165,29
805,76	2,58	25,18	7,50	63,96	130,09	0,00	26,02	338,58	312,56	338,58	0,00	0,00	23,25	0,00	29,06	2.267,50	571,08	1.696,42	29,06	283,50
806,00	2,42	26,64	7,50	67,27	125,25	0,00	25,05	338,94	313,89	338,94	0,00	0,00	21,75	0,00	27,19	2.581,39	598,28	1.983,11	27,19	286,70
806,50	5,00	27,91	7,50	74,80	272,74	0,00	54,55	755,35	700,80	755,35	0,00	0,00	45,00	0,00	56,25	3.282,19	654,53	2.627,66	56,25	644,55
806,53	0,33	27,99	7,50	75,40	18,59	0,00	3,72	52,93	49,22	52,93	0,00	0,00	2,99	0,00	3,74	3.331,41	658,27	2.673,14	3,74	45,48
807,00	4,67	29,09	7,50	83,70	266,46	0,00	53,29	784,61	731,31	784,61	0,00	0,00	42,01	0,00	52,51	4.062,72	710,78	3.351,94	52,51	678,81

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
807,31	3,08	29,09	7,50	88,71	179,33	0,00	35,87	559,11	523,24	559,11	0,00	0,00	27,74	0,00	34,67	4.585,96	745,45	3.840,51	34,67	488,57
807,50	1,92	30,12	7,50	90,02	113,56	0,00	22,71	360,07	337,35	360,07	0,00	0,00	17,26	0,00	21,58	4.923,31	767,03	4.156,29	21,58	315,78
807,73	2,30	30,12	7,50	91,59	138,77	0,00	27,75	439,17	411,41	439,17	0,00	0,00	20,74	0,00	25,92	5.334,72	792,95	4.541,78	25,92	385,49
807,88	1,48	30,58	7,50	92,02	89,71	0,00	17,94	284,68	266,74	284,68	0,00	0,00	13,30	0,00	16,63	5.601,46	809,57	4.791,88	16,63	250,11
808,00	1,22	30,63	7,50	91,57	74,56	0,00	14,91	234,57	219,66	234,57	0,00	0,00	10,96	0,00	13,70	5.821,12	823,28	4.997,84	13,70	205,96
808,26	2,58	30,63	7,50	89,35	158,19	0,00	31,64	490,37	458,74	490,37	0,00	0,00	23,24	0,00	29,05	6.279,86	852,32	5.427,53	29,05	429,69
808,50	2,42	30,65	7,50	91,10	148,19	0,00	29,64	458,09	428,45	458,09	0,00	0,00	21,76	0,00	27,20	6.708,31	879,53	5.828,78	27,20	401,25
808,79	2,86	30,65	7,50	91,61	175,31	0,00	35,06	548,19	513,13	548,19	0,00	0,00	25,74	0,00	32,17	7.221,44	911,69	6.309,75	32,17	480,96
809,00	2,14	30,35	7,50	91,29	130,59	0,00	26,12	410,76	384,64	410,76	0,00	0,00	19,26	0,00	24,08	7.606,09	935,78	6.670,31	24,08	360,56
809,40	4,04	29,32	7,50	83,81	241,25	0,00	48,25	744,32	696,07	744,32	0,00	0,00	36,39	0,00	45,48	8.302,15	981,26	7.320,89	45,48	650,58
809,50	0,96	28,85	7,50	80,99	55,66	0,00	11,13	166,33	155,19	166,33	0,00	0,00	8,61	0,00	10,77	8.457,35	992,03	7.465,32	10,77	144,43
809,80	3,00	27,08	7,50	69,01	167,77	0,00	33,55	477,00	443,45	477,00	0,00	0,00	27,00	0,00	33,75	8.900,79	1.025,78	7.875,02	33,75	409,70

1.4.9 Ramo 900

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
900,59		35,97	7,50																	
900,96	3,68	36,97	7,50	149,34	268,58	0,00	53,72	583,09	529,37	583,09	0,00	0,00	33,14	0,00	41,43	529,37	41,43	487,94	41,43	487,94
901,00	0,43	37,07	7,50	150,31	31,95	0,00	6,39	133,18	126,79	133,18	0,00	0,00	3,88	0,00	4,85	656,16	46,28	609,88	4,85	121,94
901,50	5,00	37,95	7,50	158,43	375,12	0,00	75,02	1.588,70	1.513,68	1.588,70	0,00	0,00	45,00	0,00	56,25	2.169,84	102,53	2.067,31	56,25	1.457,43
902,00	5,00	38,03	7,50	160,16	379,90	0,00	75,98	1.637,95	1.561,97	1.637,95	0,00	0,00	45,00	0,00	56,25	3.731,81	158,78	3.573,03	56,25	1.505,72
902,40	4,03	37,40	7,50	155,45	304,08	0,00	60,82	1.308,67	1.247,85	1.308,67	0,00	0,00	36,28	0,00	45,35	4.979,66	204,14	4.775,52	45,35	1.202,49
902,50	0,97	37,21	7,50	153,69	72,25	0,00	14,45	308,12	293,67	308,12	0,00	0,00	8,72	0,00	10,90	5.273,33	215,03	5.058,29	10,90	282,77
903,00	5,00	36,28	7,50	143,93	367,43	0,00	73,49	1.533,10	1.459,61	1.533,10	0,00	0,00	45,00	0,00	56,25	6.732,94	271,28	6.461,66	56,25	1.403,36
903,26	2,64	35,67	7,50	138,03	190,20	0,00	38,04	769,15	731,11	769,15	0,00	0,00	23,79	0,00	29,74	7.464,05	301,02	7.163,03	29,74	701,37
903,50	2,36	35,06	7,50	132,77	166,67	0,00	33,33	659,35	626,01	659,35	0,00	0,00	21,21	0,00	26,51	8.090,07	327,53	7.762,54	26,51	599,50
904,00	5,00	33,39	7,50	120,52	342,24	0,00	68,45	1.311,45	1.243,00	1.311,45	0,00	0,00	45,00	0,00	56,25	9.333,07	383,78	8.949,29	56,25	1.186,75
904,13	1,26	32,96	7,50	117,48	83,30	0,00	16,66	310,11	293,45	310,11	0,00	0,00	11,30	0,00	14,12	9.626,52	397,91	9.228,61	14,12	279,32
904,50	3,74	31,76	7,50	108,31	242,34	0,00	48,47	879,17	830,70	879,17	0,00	0,00	33,70	0,00	42,13	10.457,22	440,03	10.017,19	42,13	788,58
905,00	5,00	30,08	7,50	95,44	309,20	0,00	61,84	1.063,75	1.001,91	1.063,75	0,00	0,00	45,00	0,00	56,25	11.459,13	496,28	10.962,85	56,25	945,66
905,50	5,00	28,24	7,50	82,55	291,57	0,00	58,31	934,95	876,64	934,95	0,00	0,00	45,00	0,00	56,25	12.335,76	552,53	11.783,23	56,25	820,39
906,00	5,00	26,20	7,50	67,95	272,19	0,00	54,44	797,50	743,06	797,50	0,00	0,00	45,00	0,00	56,25	13.078,83	608,78	12.470,04	56,25	686,81
906,50	5,00	24,08	7,50	53,47	251,44	0,00	50,29	652,10	601,81	652,10	0,00	0,00	45,00	0,00	56,25	13.680,64	665,03	13.015,61	56,25	545,56
907,00	5,00	22,00	7,50	40,40	230,44	0,00	46,09	514,35	468,26	514,35	0,00	0,00	45,00	0,00	56,25	14.148,90	721,28	13.427,62	56,25	412,01
907,50	5,00	20,26	7,50	29,78	211,32	0,00	42,26	395,90	353,64	395,90	0,00	0,00	45,00	0,00	56,25	14.502,54	777,53	13.725,01	56,25	297,39
908,00	5,00	18,83	7,50	21,63	195,46	0,00	39,09	302,05	262,96	302,05	0,00	0,00	45,00	0,00	56,25	14.765,50	833,78	13.931,71	56,25	206,71
908,50	5,00	17,40	7,50	16,35	181,15	0,00	36,23	234,90	198,67	234,90	0,00	0,00	45,00	0,00	56,25	14.964,16	890,03	14.074,13	56,25	142,42
909,00	5,00	16,83	7,50	12,57	171,15	0,00	34,23	189,60	155,37	189,60	0,00	0,00	45,00	0,00	56,25	15.119,53	946,28	14.173,25	56,25	99,12
909,36	3,65	16,83	7,50	10,05	122,76	0,09	24,55	115,32	90,77	115,32	0,33	0,33	32,82	0,00	41,03	15.210,30	987,31	14.222,99	41,03	49,74

1.4.10 Marginal esquerda 2000

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.027,00		14,73	9,00																	
2.027,50	5,00	14,83	9,00	7,01	147,82	0,02	29,56	89,05	59,49	89,05	0,10	0,10	54,00	0,00	67,50	59,49	67,50	-8,01	59,49	-8,01
2.028,00	5,00	14,90	9,00	6,79	148,67	0,08	29,73	123,00	93,27	123,00	0,50	0,50	54,00	0,00	67,50	152,75	135,00	17,75	67,50	25,77
2.028,50	5,00	14,79	9,00	5,46	148,48	0,16	29,70	115,25	85,56	115,25	1,20	1,20	54,00	0,00	67,50	238,31	202,50	35,81	67,50	18,06
2.029,00	5,00	14,91	9,00	5,21	148,49	0,24	29,70	107,35	77,65	107,35	2,00	2,00	54,00	0,00	67,50	315,96	270,00	45,96	67,50	10,15
2.029,50	5,00	15,03	9,00	4,74	149,65	0,39	29,93	103,75	73,82	103,75	3,15	3,15	54,00	0,00	67,50	389,78	337,50	52,28	67,50	6,32
2.030,00	5,00	14,80	9,00	3,83	149,14	0,47	29,83	96,85	67,02	96,85	4,30	4,30	54,00	0,00	67,50	456,80	405,00	51,80	67,02	-0,48
2.030,50	5,00	13,29	9,00	4,02	140,45	0,43	28,09	93,25	65,16	93,25	4,50	4,50	54,00	0,00	67,50	521,96	472,50	49,46	65,16	-2,34
2.031,00	5,00	14,94	9,00	4,29	141,11	0,55	28,22	95,55	67,33	95,55	4,90	4,90	54,00	0,00	67,50	589,29	540,00	49,29	67,33	-0,17
2.031,50	5,00	15,17	9,00	2,60	150,50	1,00	30,10	88,45	58,35	88,45	7,75	7,75	54,00	0,00	67,50	647,64	607,50	40,14	58,35	-9,15
2.032,00	5,00	15,28	9,00	4,14	152,21	0,58	30,44	87,70	57,26	87,70	7,90	7,90	54,00	0,00	67,50	704,90	675,00	29,90	57,26	-10,24
2.032,50	5,00	15,27	9,00	3,21	152,71	0,61	30,54	90,75	60,21	90,75	5,95	5,95	54,00	0,00	67,50	765,11	742,50	22,61	60,21	-7,29
2.033,00	5,00	15,44	9,00	4,93	153,52	0,52	30,70	94,70	64,00	94,70	5,65	5,65	54,00	0,00	67,50	829,10	810,00	19,10	64,00	-3,50
2.033,50	5,00	15,23	9,00	3,32	153,36	0,63	30,67	95,25	64,58	95,25	5,75	5,75	54,00	0,00	67,50	893,68	877,50	16,18	64,58	-2,92
2.034,00	5,00	15,11	9,00	3,24	151,71	0,64	30,34	86,80	56,46	86,80	6,35	6,35	54,00	0,00	67,50	950,14	945,00	5,14	56,46	-11,04
2.034,50	5,00	14,89	9,00	3,29	149,99	0,62	30,00	86,65	56,65	86,65	6,30	6,30	54,00	0,00	67,50	1.006,80	1.012,50	-5,70	56,65	-10,85
2.035,00	5,00	15,02	9,00	3,98	149,56	0,38	29,91	90,35	60,44	90,35	5,00	5,00	54,00	0,00	67,50	1.067,23	1.080,00	-12,77	60,44	-7,06
2.035,50	5,00	14,99	9,00	4,95	150,05	0,32	30,01	98,65	68,64	98,65	3,50	3,50	54,00	0,00	67,50	1.135,88	1.147,50	-11,62	67,50	1,14
2.036,00	5,00	15,22	9,00	9,16	151,05	0,17	30,21	124,55	94,34	124,55	2,45	2,45	54,00	0,00	67,50	1.230,22	1.215,00	15,22	67,50	26,84
2.036,50	5,00	15,02	9,00	7,72	151,21	0,06	30,24	138,40	108,16	138,40	1,15	1,15	54,00	0,00	67,50	1.338,38	1.282,50	55,88	67,50	40,66
2.037,00	5,00	12,22	9,00	7,47	136,21	0,00	27,24	129,95	102,71	129,95	0,30	0,30	54,00	0,00	67,50	1.441,08	1.350,00	91,08	67,50	35,21
2.037,50	5,00	12,33	9,00	9,67	122,77	0,00	24,55	139,70	115,15	139,70	0,00	0,00	54,00	0,00	67,50	1.556,23	1.417,50	138,73	67,50	47,65
2.038,00	5,00	12,52	9,00	11,62	124,23	0,00	24,85	160,45	135,60	160,45	0,00	0,00	54,00	0,00	67,50	1.691,83	1.485,00	206,83	67,50	68,10

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.038,24	2,37	16,13	9,00	16,06	67,99	0,00	13,60	91,33	77,73	91,33	0,00	0,00	25,63	0,00	32,04	1.769,57	1.517,04	252,53	32,04	45,69
2.038,50	2,63	16,36	9,00	17,98	85,32	0,00	17,06	117,77	100,71	117,77	0,00	0,00	28,37	0,00	35,46	1.870,28	1.552,50	317,78	35,46	65,25
2.039,00	5,00	12,52	9,00	16,49	144,41	0,00	28,88	226,35	197,47	226,35	0,00	0,00	54,00	0,00	67,50	2.067,75	1.620,00	447,75	67,50	129,97
2.039,50	5,00	12,19	9,00	17,01	123,57	0,00	24,71	221,50	196,79	221,50	0,00	0,00	54,00	0,00	67,50	2.264,53	1.687,50	577,03	67,50	129,29
2.040,00	5,00	12,32	9,00	10,84	122,54	0,00	24,51	193,25	168,74	193,25	0,00	0,00	54,00	0,00	67,50	2.433,27	1.755,00	678,27	67,50	101,24
2.040,50	5,00	13,52	9,00	14,07	129,17	0,00	25,83	178,55	152,72	178,55	0,00	0,00	54,00	0,00	67,50	2.585,99	1.822,50	763,49	67,50	85,22
2.041,00	5,00	13,60	9,00	14,47	135,60	0,00	27,12	196,70	169,58	196,70	0,00	0,00	54,00	0,00	67,50	2.755,57	1.890,00	865,57	67,50	102,08
2.041,50	5,00	13,73	9,00	18,76	136,65	0,00	27,33	220,15	192,82	220,15	0,00	0,00	54,00	0,00	67,50	2.948,39	1.957,50	990,89	67,50	125,32
2.041,85	3,50	13,85	9,00	20,70	96,42	0,00	19,28	175,71	156,43	175,71	0,00	0,00	37,76	0,00	47,20	3.104,82	2.004,70	1.100,12	47,20	109,23
2.042,00	1,50	13,77	9,00	19,51	41,55	0,00	8,31	76,72	68,41	76,72	0,00	0,00	16,24	0,00	20,30	3.173,22	2.025,00	1.148,22	20,30	48,10
2.042,50	5,00	13,82	9,00	23,16	137,96	0,00	27,59	267,35	239,76	267,35	0,00	0,00	54,00	0,00	67,50	3.412,98	2.092,50	1.320,48	67,50	172,26
2.043,00	5,00	13,85	9,00	22,60	138,35	0,00	27,67	282,80	255,13	282,80	0,00	0,00	54,00	0,00	67,50	3.668,11	2.160,00	1.508,11	67,50	187,63
2.043,50	5,00	13,70	9,00	22,84	137,75	0,00	27,55	281,20	253,65	281,20	0,00	0,00	54,00	0,00	67,50	3.921,76	2.227,50	1.694,26	67,50	186,15
2.044,00	5,00	12,78	9,00	17,53	132,41	0,00	26,48	255,85	229,37	255,85	0,00	0,00	54,00	0,00	67,50	4.151,13	2.295,00	1.856,13	67,50	161,87
2.044,50	5,00	12,77	9,00	16,62	127,77	0,00	25,55	224,75	199,20	224,75	0,00	0,00	54,00	0,00	67,50	4.350,33	2.362,50	1.987,83	67,50	131,70
2.045,00	5,00	16,52	9,00	19,73	146,47	0,00	29,29	235,75	206,46	235,75	0,00	0,00	54,00	0,00	67,50	4.556,79	2.430,00	2.126,79	67,50	138,96
2.045,46	4,62	16,33	9,00	18,04	151,71	0,00	30,34	224,32	193,98	224,32	0,00	0,00	49,88	0,00	62,35	4.750,76	2.492,35	2.258,41	62,35	131,63
2.045,50	0,38	16,35	9,00	18,01	12,47	0,00	2,49	17,87	15,38	17,87	0,00	0,00	4,12	0,00	5,15	4.766,14	2.497,50	2.268,64	5,15	10,23
2.046,00	5,00	16,25	9,00	13,26	162,99	0,00	32,60	210,35	177,75	210,35	0,00	0,00	54,00	0,00	67,50	4.943,90	2.565,00	2.378,90	67,50	110,25
2.046,50	5,00	14,82	9,00	7,58	155,35	0,06	31,07	158,20	127,13	158,20	0,30	0,30	54,00	0,00	67,50	5.071,03	2.632,50	2.438,53	67,50	59,63
2.047,00	5,00	14,86	9,00	6,50	148,41	0,32	29,68	124,40	94,72	124,40	1,90	1,90	54,00	0,00	67,50	5.165,75	2.700,00	2.465,75	67,50	27,22
2.047,50	5,00	15,64	9,00	3,91	152,51	2,35	30,50	106,05	75,55	106,05	13,35	13,35	54,00	0,00	67,50	5.241,30	2.767,50	2.473,80	67,50	8,05
2.048,00	5,00	16,74	9,00	1,92	161,92	5,50	32,38	83,15	50,77	83,15	39,25	39,25	54,00	0,00	67,50	5.292,06	2.835,00	2.457,06	50,77	-16,73
2.048,50	5,00	18,18	9,00	1,37	174,59	8,84	34,92	70,45	35,53	70,45	71,70	71,70	54,00	17,70	89,63	5.327,59	2.924,63	2.402,97	35,53	-54,09
2.049,00	5,00	16,84	9,00	0,81	175,07	7,64	35,01	64,90	29,89	64,90	82,40	82,40	54,00	28,40	103,00	5.357,48	3.027,63	2.329,86	29,89	-73,11

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.049,50	5,00	16,48	9,00	0,39	166,58	9,20	33,32	60,00	26,68	60,00	84,20	84,20	54,00	30,20	105,25	5.384,16	3.132,88	2.251,29	26,68	-78,57
2.050,00	5,00	16,63	9,00	0,52	165,54	9,37	33,11	58,55	25,44	58,55	92,85	92,85	54,00	38,85	116,06	5.409,61	3.248,94	2.160,67	25,44	-90,62
2.050,50	5,00	16,37	9,00	1,33	165,00	9,29	33,00	63,25	30,25	63,25	93,30	93,30	54,00	39,30	116,63	5.439,86	3.365,56	2.074,29	30,25	-86,38
2.051,00	5,00	15,51	9,00	2,07	159,42	4,98	31,88	71,00	39,12	71,00	71,35	71,35	54,00	17,35	89,19	5.478,97	3.454,75	2.024,22	39,12	-50,07
2.051,50	5,00	14,67	9,00	4,19	150,90	0,77	30,18	85,30	55,12	85,30	28,75	28,75	54,00	0,00	67,50	5.534,09	3.522,25	2.011,84	55,12	-12,38
2.051,52	0,22	14,65	9,00	4,29	6,49	0,74	1,30	4,27	2,97	4,27	0,33	0,33	2,39	0,00	2,99	5.537,06	3.525,24	2.011,82	2,97	-0,02
2.052,00	4,78	15,56	9,00	10,36	144,37	0,00	28,87	121,61	92,74	121,61	3,54	3,54	51,61	0,00	64,51	5.629,80	3.589,75	2.040,05	64,51	28,23
2.052,50	5,00	15,82	9,00	11,99	156,92	0,00	31,38	165,75	134,37	165,75	0,00	0,00	54,00	0,00	67,50	5.764,17	3.657,25	2.106,92	67,50	66,87
2.053,00	5,00	16,21	9,00	13,06	160,15	0,00	32,03	179,25	147,22	179,25	0,00	0,00	54,00	0,00	67,50	5.911,39	3.724,75	2.186,64	67,50	79,72
2.053,50	5,00	15,94	9,00	12,75	160,76	0,00	32,15	183,05	150,90	183,05	0,00	0,00	54,00	0,00	67,50	6.062,29	3.792,25	2.270,04	67,50	83,40
2.054,00	5,00	15,05	9,00	11,08	154,99	0,00	31,00	173,15	142,15	173,15	0,00	0,00	54,00	0,00	67,50	6.204,44	3.859,75	2.344,69	67,50	74,65
2.054,50	5,00	12,07	9,00	7,12	135,59	0,06	27,12	145,00	117,88	145,00	0,30	0,30	54,00	0,00	67,50	6.322,32	3.927,25	2.395,07	67,50	50,38
2.055,00	5,00	12,21	9,00	6,16	121,37	0,02	24,27	120,40	96,13	120,40	0,40	0,40	54,00	0,00	67,50	6.418,45	3.994,75	2.423,70	67,50	28,63
2.055,50	5,00	12,08	9,00	5,59	121,43	0,06	24,29	112,75	88,46	112,75	0,40	0,40	54,00	0,00	67,50	6.506,91	4.062,25	2.444,66	67,50	20,96
2.056,00	5,00	12,51	9,00	5,02	122,92	0,52	24,58	107,05	82,47	107,05	2,90	2,90	54,00	0,00	67,50	6.589,38	4.129,75	2.459,63	67,50	14,97
2.056,50	5,00	16,31	9,00	4,71	144,09	2,28	28,82	102,65	73,83	102,65	14,00	14,00	54,00	0,00	67,50	6.663,21	4.197,25	2.465,96	67,50	6,33
2.057,00	5,00	15,19	9,00	4,04	157,49	0,46	31,50	97,75	66,25	97,75	13,70	13,70	54,00	0,00	67,50	6.729,47	4.264,75	2.464,72	66,25	-1,25
2.057,50	5,00	15,54	9,00	4,59	153,61	0,79	30,72	97,15	66,43	97,15	6,25	6,25	54,00	0,00	67,50	6.795,89	4.332,25	2.463,64	66,43	-1,07
2.058,00	5,00	15,77	9,00	4,85	156,55	1,49	31,31	101,20	69,89	101,20	11,40	11,40	54,00	0,00	67,50	6.865,79	4.399,75	2.466,04	67,50	2,39
2.058,50	5,00	16,14	9,00	5,49	159,58	1,82	31,92	105,70	73,79	105,70	16,55	16,55	54,00	0,00	67,50	6.939,57	4.467,25	2.472,32	67,50	6,29
2.059,00	5,00	16,59	9,00	6,06	163,65	1,91	32,73	111,75	79,02	111,75	18,65	18,65	54,00	0,00	67,50	7.018,59	4.534,75	2.483,84	67,50	11,52
2.059,50	5,00	16,98	9,00	6,68	167,85	1,67	33,57	117,70	84,13	117,70	17,90	17,90	54,00	0,00	67,50	7.102,72	4.602,25	2.500,47	67,50	16,63
2.060,00	5,00	16,58	9,00	5,48	167,81	2,83	33,56	114,80	81,24	114,80	22,50	22,50	54,00	0,00	67,50	7.183,96	4.669,75	2.514,21	67,50	13,74
2.060,50	5,00	16,62	9,00	6,08	165,97	2,34	33,19	111,80	78,61	111,80	25,85	25,85	54,00	0,00	67,50	7.262,57	4.737,25	2.525,32	67,50	11,11
2.061,00	5,00	16,48	9,00	5,73	165,50	1,75	33,10	113,05	79,95	113,05	20,45	20,45	54,00	0,00	67,50	7.342,52	4.804,75	2.537,77	67,50	12,45

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.061,50	5,00	16,45	9,00	5,33	164,69	2,31	32,94	109,30	76,36	109,30	20,30	20,30	54,00	0,00	67,50	7.418,88	4.872,25	2.546,63	67,50	8,86
2.062,00	5,00	16,71	9,00	5,80	165,83	2,28	33,17	109,65	76,49	109,65	22,95	22,95	54,00	0,00	67,50	7.495,37	4.939,75	2.555,62	67,50	8,98
2.062,50	5,00	16,52	9,00	5,32	166,18	2,19	33,24	109,60	76,36	109,60	22,35	22,35	54,00	0,00	67,50	7.571,73	5.007,25	2.564,48	67,50	8,86
2.063,00	5,00	16,44	9,00	5,38	164,82	2,14	32,96	107,50	74,54	107,50	21,65	21,65	54,00	0,00	67,50	7.646,27	5.074,75	2.571,52	67,50	7,04
2.063,50	5,00	16,63	9,00	5,73	165,36	2,30	33,07	109,55	76,48	109,55	22,20	22,20	54,00	0,00	67,50	7.722,75	5.142,25	2.580,50	67,50	8,98
2.064,00	5,00	13,27	9,00	3,87	149,52	1,94	29,90	102,00	72,10	102,00	21,20	21,20	54,00	0,00	67,50	7.794,84	5.209,75	2.585,09	67,50	4,60
2.064,26	2,63	13,27	9,00	3,84	69,83	1,80	13,97	48,70	34,73	48,70	9,84	9,84	28,41	0,00	35,52	7.829,58	5.245,27	2.584,31	34,73	-0,78
2.064,50	2,37	13,27	9,00	3,94	62,86	1,66	12,57	44,02	31,44	44,02	8,20	8,20	25,59	0,00	31,98	7.861,02	5.277,25	2.583,77	31,44	-0,54
2.065,00	5,00	13,36	9,00	4,11	133,15	1,68	26,63	94,25	67,62	94,25	16,70	16,70	54,00	0,00	67,50	7.928,64	5.344,75	2.583,89	67,50	0,12
2.065,50	5,00	17,01	9,00	6,56	151,85	1,82	30,37	107,35	76,98	107,35	17,50	17,50	54,00	0,00	67,50	8.005,62	5.412,25	2.593,37	67,50	9,48
2.066,00	5,00	16,93	9,00	7,65	169,68	1,48	33,94	125,05	91,12	125,05	16,50	16,50	54,00	0,00	67,50	8.096,74	5.479,75	2.616,99	67,50	23,62
2.066,50	5,00	16,58	9,00	8,60	167,54	0,94	33,51	135,25	101,74	135,25	12,10	12,10	54,00	0,00	67,50	8.198,48	5.547,25	2.651,23	67,50	34,24
2.067,00	5,00	16,19	9,00	9,18	163,83	0,63	32,77	142,90	110,13	142,90	7,85	7,85	54,00	0,00	67,50	8.308,61	5.614,75	2.693,86	67,50	42,63
2.067,50	5,00	15,92	9,00	9,57	160,54	0,34	32,11	147,75	115,64	147,75	4,85	4,85	54,00	0,00	67,50	8.424,26	5.682,25	2.742,01	67,50	48,14
2.068,00	5,00	16,78	9,00	9,12	163,52	0,93	32,70	147,45	114,75	147,45	6,35	6,35	54,00	0,00	67,50	8.539,00	5.749,75	2.789,25	67,50	47,25
2.068,50	5,00	15,59	9,00	9,59	161,86	0,20	32,37	147,55	115,18	147,55	5,65	5,65	54,00	0,00	67,50	8.654,18	5.817,25	2.836,93	67,50	47,68
2.069,00	5,00	16,08	9,00	9,36	158,36	0,66	31,67	148,75	117,08	148,75	4,30	4,30	54,00	0,00	67,50	8.771,26	5.884,75	2.886,51	67,50	49,58
2.069,50	5,00	15,75	9,00	9,57	159,19	0,39	31,84	148,65	116,81	148,65	5,25	5,25	54,00	0,00	67,50	8.888,07	5.952,25	2.935,82	67,50	49,31
2.070,00	5,00	15,38	9,00	9,49	155,64	0,09	31,13	149,30	118,17	149,30	2,40	2,40	54,00	0,00	67,50	9.006,24	6.019,75	2.986,49	67,50	50,67
2.070,50	5,00	15,32	9,00	9,10	153,49	0,06	30,70	146,95	116,25	146,95	0,75	0,75	54,00	0,00	67,50	9.122,50	6.087,25	3.035,25	67,50	48,75
2.071,00	5,00	16,20	9,00	8,17	157,63	1,00	31,53	140,35	108,83	140,35	5,30	5,30	54,00	0,00	67,50	9.231,32	6.154,75	3.076,57	67,50	41,33
2.071,50	5,00	15,89	9,00	7,97	160,47	0,79	32,09	134,70	102,61	134,70	8,95	8,95	54,00	0,00	67,50	9.333,93	6.222,25	3.111,68	67,50	35,11
2.072,00	5,00	15,59	9,00	9,08	157,40	0,17	31,48	139,25	107,77	139,25	4,80	4,80	54,00	0,00	67,50	9.441,70	6.289,75	3.151,95	67,50	40,27
2.072,50	5,00	16,21	9,00	7,72	158,98	0,99	31,80	138,00	106,20	138,00	5,80	5,80	54,00	0,00	67,50	9.547,90	6.357,25	3.190,65	67,50	38,70
2.073,00	5,00	16,05	9,00	6,42	161,31	1,14	32,26	124,70	92,44	124,70	10,65	10,65	54,00	0,00	67,50	9.640,34	6.424,75	3.215,59	67,50	24,94

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.073,50	5,00	15,90	9,00	5,28	159,78	1,21	31,96	112,50	80,55	112,50	11,75	11,75	54,00	0,00	67,50	9.720,89	6.492,25	3.228,64	67,50	13,05
2.074,00	5,00	13,07	9,00	2,97	144,84	1,34	28,97	95,25	66,28	95,25	12,75	12,75	54,00	0,00	67,50	9.787,17	6.559,75	3.227,42	66,28	-1,22
2.074,50	5,00	15,80	9,00	2,53	144,34	1,65	28,87	81,50	52,63	81,50	14,95	14,95	54,00	0,00	67,50	9.839,80	6.627,25	3.212,55	52,63	-14,87
2.075,00	5,00	15,01	9,00	1,70	154,05	1,15	30,81	75,15	44,34	75,15	14,00	14,00	54,00	0,00	67,50	9.884,14	6.694,75	3.189,39	44,34	-23,16
2.075,50	5,00	15,44	9,00	0,50	152,26	2,07	30,45	65,00	34,55	65,00	16,10	16,10	54,00	0,00	67,50	9.918,69	6.762,25	3.156,44	34,55	-32,95
2.076,00	5,00	12,12	9,00	0,09	137,82	1,99	27,56	56,95	29,39	56,95	20,30	20,30	54,00	0,00	67,50	9.948,08	6.829,75	3.118,33	29,39	-38,11
2.076,50	5,00	4,25	9,00	0,03	81,85	0,52	16,37	54,60	38,23	54,60	12,55	12,55	54,00	0,00	67,50	9.986,31	6.897,25	3.089,06	38,23	-29,27
2.077,00	5,00	4,25	9,00	0,00	42,50	1,13	8,50	45,90	37,40	45,90	8,25	8,25	54,00	0,00	67,50	10.023,71	6.964,75	3.058,96	37,40	-30,10
2.077,00	0,04	4,25	9,00	0,00	0,35	1,13	0,07	0,35	0,28	0,35	0,09	0,09	0,44	0,00	0,55	10.023,99	6.965,30	3.058,68	0,28	-0,27
2.077,50	4,96	4,25	9,00	0,00	42,15	1,09	8,43	42,55	34,12	42,55	11,01	11,01	53,56	0,00	66,95	10.058,10	7.032,25	3.025,85	34,12	-32,83
2.078,00	5,00	16,32	9,00	0,00	102,86	5,26	20,57	22,25	1,68	22,25	31,75	31,75	54,00	0,00	67,50	10.059,78	7.099,75	2.960,03	1,68	-65,82
2.078,50	5,00	16,17	9,00	0,00	162,46	5,48	32,49	0,30	0,00	32,49	53,70	86,19	54,00	32,19	107,74	10.059,78	7.207,49	2.852,29	0,00	-107,74
2.079,00	5,00	16,26	9,00	0,00	162,18	6,29	32,44	0,00	0,00	32,44	58,85	91,29	54,00	37,29	114,11	10.059,78	7.321,60	2.738,19	0,00	-114,11
2.079,50	5,00	16,14	9,00	0,00	162,03	5,51	32,41	0,00	0,00	32,41	59,00	91,41	54,00	37,41	114,26	10.059,78	7.435,85	2.623,93	0,00	-114,26
2.080,00	5,00	16,63	9,00	0,00	163,88	6,72	32,78	0,00	0,00	32,78	61,15	93,93	54,00	39,93	117,41	10.059,78	7.553,26	2.506,52	0,00	-117,41
2.080,50	5,00	16,54	9,00	0,00	165,86	5,52	33,17	0,00	0,00	33,17	61,20	94,37	54,00	40,37	117,97	10.059,78	7.671,22	2.388,56	0,00	-117,97
2.081,00	5,00	16,39	9,00	0,00	164,66	5,10	32,93	0,90	0,00	32,93	53,10	86,03	54,00	32,03	107,54	10.059,78	7.778,76	2.281,02	0,00	-107,54
2.081,50	5,00	16,33	9,00	0,00	163,64	5,08	32,73	3,10	0,00	32,73	50,90	83,63	54,00	29,63	104,53	10.059,78	7.883,30	2.176,49	0,00	-104,53
2.082,00	5,00	16,09	9,00	0,38	162,13	4,45	32,43	55,90	23,47	55,90	47,65	47,65	54,00	0,00	67,50	10.083,26	7.950,80	2.132,46	23,47	-44,03
2.082,50	5,00	16,00	9,00	0,00	160,44	4,55	32,09	10,90	0,00	32,09	45,00	77,09	54,00	23,09	96,36	10.083,26	8.047,16	2.036,10	0,00	-96,36
2.083,00	5,00	16,16	9,00	0,02	160,77	3,59	32,15	54,10	21,95	54,10	40,70	40,70	54,00	0,00	67,50	10.105,20	8.114,66	1.990,55	21,95	-45,55
2.083,50	5,00	16,16	9,00	1,00	161,59	1,92	32,32	59,10	26,78	59,10	27,55	27,55	54,00	0,00	67,50	10.131,98	8.182,16	1.949,83	26,78	-40,72
2.084,00	5,00	12,98	9,00	0,42	145,69	3,92	29,14	61,10	31,96	61,10	29,20	29,20	54,00	0,00	67,50	10.163,95	8.249,66	1.914,29	31,96	-35,54
2.084,50	5,00	12,88	9,00	0,09	129,31	3,35	25,86	56,55	30,69	56,55	36,35	36,35	54,00	0,00	67,50	10.194,64	8.317,16	1.877,48	30,69	-36,81
2.085,00	5,00	12,61	9,00	0,34	127,45	1,97	25,49	56,15	30,66	56,15	26,60	26,60	54,00	0,00	67,50	10.225,30	8.384,66	1.840,64	30,66	-36,84

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.085,50	5,00	12,36	9,00	1,49	124,82	1,34	24,96	63,15	38,19	63,15	16,55	16,55	54,00	0,00	67,50	10.263,48	8.452,16	1.811,33	38,19	-29,31
2.086,00	5,00	15,41	9,00	2,75	138,82	1,16	27,76	75,20	47,44	75,20	12,50	12,50	54,00	0,00	67,50	10.310,92	8.519,66	1.791,26	47,44	-20,06
2.086,50	5,00	15,15	9,00	3,78	152,81	0,66	30,56	86,65	56,09	86,65	9,10	9,10	54,00	0,00	67,50	10.367,01	8.587,16	1.779,85	56,09	-11,41
2.087,00	5,00	14,77	9,00	4,55	149,60	0,29	29,92	95,65	65,73	95,65	4,75	4,75	54,00	0,00	67,50	10.432,74	8.654,66	1.778,08	65,73	-1,77
2.087,50	5,00	14,85	9,00	5,64	148,10	0,07	29,62	104,95	75,33	104,95	1,80	1,80	54,00	0,00	67,50	10.508,07	8.722,16	1.785,91	67,50	7,83
2.088,00	5,00	15,05	9,00	5,84	149,50	0,16	29,90	111,40	81,50	111,40	1,15	1,15	54,00	0,00	67,50	10.589,57	8.789,66	1.799,91	67,50	14,00
2.088,50	5,00	14,60	9,00	5,93	148,24	0,13	29,65	112,85	83,20	112,85	1,45	1,45	54,00	0,00	67,50	10.672,77	8.857,16	1.815,61	67,50	15,70
2.089,00	5,00	14,76	9,00	6,35	146,81	0,02	29,36	115,40	86,04	115,40	0,75	0,75	54,00	0,00	67,50	10.758,81	8.924,66	1.834,15	67,50	18,54
2.089,50	5,00	14,88	9,00	6,67	148,18	0,06	29,64	119,10	89,47	119,10	0,40	0,40	54,00	0,00	67,50	10.848,27	8.992,16	1.856,12	67,50	21,97
2.090,00	5,00	12,00	9,00	5,34	134,38	0,08	26,88	114,05	87,17	114,05	0,70	0,70	54,00	0,00	67,50	10.935,45	9.059,66	1.875,79	67,50	19,67
2.090,50	5,00	11,92	9,00	5,35	119,60	0,05	23,92	107,45	83,53	107,45	0,65	0,65	54,00	0,00	67,50	11.018,98	9.127,16	1.891,82	67,50	16,03
2.091,00	5,00	14,42	9,00	6,16	131,68	0,03	26,34	111,55	85,22	111,55	0,40	0,40	54,00	0,00	67,50	11.104,19	9.194,66	1.909,54	67,50	17,72
2.091,50	5,00	14,99	9,00	7,13	147,05	0,00	29,41	120,45	91,04	120,45	0,15	0,15	54,00	0,00	67,50	11.195,23	9.262,16	1.933,08	67,50	23,54
2.092,00	5,00	14,99	9,00	7,83	149,91	0,00	29,98	128,80	98,82	128,80	0,00	0,00	54,00	0,00	67,50	11.294,05	9.329,66	1.964,40	67,50	31,32
2.092,50	5,00	15,19	9,00	8,22	150,87	0,00	30,17	134,25	104,08	134,25	0,00	0,00	54,00	0,00	67,50	11.398,13	9.397,16	2.000,97	67,50	36,58
2.093,00	5,00	15,24	9,00	8,52	152,11	0,00	30,42	137,70	107,28	137,70	0,00	0,00	54,00	0,00	67,50	11.505,41	9.464,66	2.040,75	67,50	39,78
2.093,50	5,00	15,36	9,00	8,38	152,99	0,00	30,60	138,50	107,90	138,50	0,00	0,00	54,00	0,00	67,50	11.613,31	9.532,16	2.081,15	67,50	40,40
2.094,00	5,00	15,30	9,00	7,62	153,32	0,00	30,66	134,00	103,34	134,00	0,00	0,00	54,00	0,00	67,50	11.716,65	9.599,66	2.116,99	67,50	35,84
2.094,50	5,00	15,44	9,00	7,72	153,72	0,00	30,74	130,70	99,96	130,70	0,00	0,00	54,00	0,00	67,50	11.816,60	9.667,16	2.149,45	67,50	32,46
2.095,00	5,00	15,36	9,00	7,65	154,00	0,00	30,80	130,85	100,05	130,85	0,00	0,00	54,00	0,00	67,50	11.916,65	9.734,66	2.182,00	67,50	32,55
2.095,50	5,00	15,41	9,00	7,71	153,86	0,00	30,77	130,80	100,03	130,80	0,00	0,00	54,00	0,00	67,50	12.016,68	9.802,16	2.214,52	67,50	32,53
2.096,00	5,00	15,52	9,00	8,50	154,67	0,00	30,93	135,05	104,12	135,05	0,00	0,00	54,00	0,00	67,50	12.120,80	9.869,66	2.251,14	67,50	36,62
2.096,50	5,00	15,33	9,00	8,51	154,27	0,00	30,85	139,05	108,20	139,05	0,00	0,00	54,00	0,00	67,50	12.228,99	9.937,16	2.291,84	67,50	40,70
2.097,00	5,00	15,22	9,00	8,37	152,76	0,00	30,55	138,40	107,85	138,40	0,00	0,00	54,00	0,00	67,50	12.336,84	10.004,66	2.332,19	67,50	40,35
2.097,50	5,00	15,22	9,00	8,41	152,19	0,00	30,44	137,90	107,46	137,90	0,00	0,00	54,00	0,00	67,50	12.444,30	10.072,16	2.372,15	67,50	39,96

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.098,00	5,00	15,26	9,00	8,39	152,38	0,00	30,48	138,00	107,52	138,00	0,00	0,00	54,00	0,00	67,50	12.551,83	10.139,66	2.412,17	67,50	40,02
2.098,50	5,00	15,22	9,00	8,43	152,37	0,00	30,47	138,10	107,63	138,10	0,00	0,00	54,00	0,00	67,50	12.659,46	10.207,16	2.452,30	67,50	40,13
2.099,00	5,00	15,16	9,00	8,52	151,90	0,00	30,38	138,75	108,37	138,75	0,00	0,00	54,00	0,00	67,50	12.767,83	10.274,66	2.493,17	67,50	40,87
2.099,50	5,00	15,09	9,00	8,55	151,26	0,00	30,25	139,35	109,10	139,35	0,00	0,00	54,00	0,00	67,50	12.876,92	10.342,16	2.534,77	67,50	41,60
2.100,00	5,00	15,01	9,00	8,06	150,50	0,00	30,10	137,05	106,95	137,05	0,00	0,00	54,00	0,00	67,50	12.983,87	10.409,66	2.574,22	67,50	39,45
2.100,50	5,00	15,02	9,00	8,09	150,14	0,00	30,03	134,75	104,72	134,75	0,00	0,00	54,00	0,00	67,50	13.088,60	10.477,16	2.611,44	67,50	37,22
2.101,00	5,00	15,19	9,00	8,82	151,02	0,00	30,20	138,55	108,35	138,55	0,00	0,00	54,00	0,00	67,50	13.196,94	10.544,66	2.652,29	67,50	40,85
2.101,50	5,00	15,20	9,00	9,00	151,95	0,00	30,39	143,10	112,71	143,10	0,00	0,00	54,00	0,00	67,50	13.309,65	10.612,16	2.697,50	67,50	45,21
2.102,00	5,00	15,30	9,00	9,81	152,51	0,00	30,50	148,05	117,55	148,05	0,00	0,00	54,00	0,00	67,50	13.427,20	10.679,66	2.747,55	67,50	50,05
2.102,50	5,00	15,40	9,00	10,49	153,50	0,00	30,70	155,50	124,80	155,50	0,00	0,00	54,00	0,00	67,50	13.552,00	10.747,16	2.804,85	67,50	57,30
2.103,00	5,00	15,62	9,00	10,77	155,11	0,00	31,02	160,30	129,28	160,30	0,00	0,00	54,00	0,00	67,50	13.681,28	10.814,66	2.866,62	67,50	61,78
2.103,50	5,00	15,67	9,00	10,39	156,44	0,00	31,29	159,80	128,51	159,80	0,00	0,00	54,00	0,00	67,50	13.809,79	10.882,16	2.927,64	67,50	61,01
2.104,00	5,00	15,58	9,00	9,27	156,25	0,00	31,25	152,30	121,05	152,30	0,00	0,00	54,00	0,00	67,50	13.930,84	10.949,66	2.981,19	67,50	53,55
2.104,50	5,00	15,29	9,00	7,02	154,35	0,00	30,87	135,45	104,58	135,45	0,00	0,00	54,00	0,00	67,50	14.035,42	11.017,16	3.018,27	67,50	37,08
2.105,00	5,00	11,87	9,00	5,37	135,76	0,00	27,15	115,95	88,80	115,95	0,00	0,00	54,00	0,00	67,50	14.124,22	11.084,66	3.039,57	67,50	21,30

1.4.11 Marginal direita 5000

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
5.007,61		0,00	0,00																	
5.008,00	3,93	12,34	6,50	3,98	48,55	0,00	9,71	30,99	21,28	30,99	0,00	0,00	15,34	0,00	19,17	21,28	19,17	2,11	19,17	2,11
5.008,04	0,40	12,34	6,50	3,96	9,86	0,00	1,97	6,29	4,32	6,29	0,00	0,00	3,12	0,00	3,89	25,59	23,06	2,53	3,89	0,42
5.008,50	4,60	12,04	6,50	3,80	112,15	0,00	22,43	71,58	49,15	71,58	0,00	0,00	35,88	0,00	44,85	74,75	67,92	6,83	44,85	4,30
5.008,71	2,08	12,37	6,50	4,07	50,86	0,00	10,17	32,66	22,48	32,66	0,00	0,00	16,26	0,00	20,32	97,23	88,24	8,99	20,32	2,16
5.009,00	2,92	12,44	6,53	4,30	72,34	0,00	14,47	47,20	32,73	47,20	0,00	0,00	22,79	0,00	28,49	129,96	116,72	13,23	28,49	4,24
5.009,50	5,00	15,25	9,00	6,38	138,44	0,00	27,69	99,98	72,29	99,98	0,00	0,00	46,58	0,00	58,22	202,25	174,95	27,30	58,22	14,07
5.010,00	5,00	15,06	9,00	5,66	151,54	0,00	30,31	114,20	83,89	114,20	0,00	0,00	54,00	0,00	67,50	286,14	242,45	43,69	67,50	16,39
5.010,50	5,00	15,16	9,00	6,04	151,09	0,00	30,22	112,50	82,28	112,50	0,00	0,00	54,00	0,00	67,50	368,42	309,95	58,47	67,50	14,78
5.011,00	5,00	15,12	9,00	6,04	151,39	0,00	30,28	114,40	84,12	114,40	0,00	0,00	54,00	0,00	67,50	452,54	377,45	75,10	67,50	16,62
5.011,50	5,00	15,19	9,00	6,75	151,54	0,00	30,31	117,95	87,64	117,95	0,00	0,00	54,00	0,00	67,50	540,18	444,95	95,24	67,50	20,14
5.012,00	5,00	15,23	9,00	6,94	152,09	0,00	30,42	122,45	92,03	122,45	0,00	0,00	54,00	0,00	67,50	632,22	512,45	119,77	67,50	24,53
5.012,50	5,00	15,30	9,00	6,99	152,68	0,00	30,54	123,65	93,11	123,65	0,00	0,00	54,00	0,00	67,50	725,33	579,95	145,38	67,50	25,61
5.013,00	5,00	15,06	9,00	6,24	151,84	0,00	30,37	120,15	89,78	120,15	0,00	0,00	54,00	0,00	67,50	815,11	647,45	167,67	67,50	22,28
5.013,50	5,00	14,73	9,00	5,36	148,96	0,02	29,79	112,00	82,21	112,00	0,10	0,10	54,00	0,00	67,50	897,32	714,95	182,37	67,50	14,71
5.014,00	5,00	15,56	9,00	8,23	151,42	0,00	30,28	121,95	91,67	121,95	0,10	0,10	54,00	0,00	67,50	988,99	782,45	206,54	67,50	24,17
5.014,50	5,00	15,21	9,00	7,23	153,83	0,01	30,77	131,30	100,53	131,30	0,05	0,05	54,00	0,00	67,50	1.089,52	849,95	239,58	67,50	33,03
5.015,00	5,00	15,11	9,00	6,68	151,58	0,01	30,32	123,55	93,23	123,55	0,10	0,10	54,00	0,00	67,50	1.182,76	917,45	265,31	67,50	25,73
5.015,50	5,00	15,34	9,00	7,27	152,23	0,00	30,45	123,75	93,30	123,75	0,05	0,05	54,00	0,00	67,50	1.276,06	984,95	291,11	67,50	25,80
5.016,00	5,00	15,19	9,00	6,55	152,64	0,03	30,53	123,10	92,57	123,10	0,15	0,15	54,00	0,00	67,50	1.368,63	1.052,45	316,19	67,50	25,07
5.016,50	5,00	15,33	9,00	6,80	152,62	0,04	30,52	120,75	90,23	120,75	0,35	0,35	54,00	0,00	67,50	1.458,86	1.119,95	338,91	67,50	22,73
5.017,00	5,00	15,22	9,00	7,12	152,80	0,02	30,56	123,60	93,04	123,60	0,30	0,30	54,00	0,00	67,50	1.551,90	1.187,45	364,45	67,50	25,54
5.017,50	5,00	15,40	9,00	7,45	153,10	0,00	30,62	126,85	96,23	126,85	0,10	0,10	54,00	0,00	67,50	1.648,13	1.254,95	393,18	67,50	28,73

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
5.018,00	5,00	15,26	9,00	6,88	153,29	0,00	30,66	125,65	94,99	125,65	0,00	0,00	54,00	0,00	67,50	1.743,12	1.322,45	420,68	67,50	27,49
5.018,50	5,00	14,84	9,00	5,03	150,49	0,03	30,10	113,55	83,45	113,55	0,15	0,15	54,00	0,00	67,50	1.826,57	1.389,95	436,63	67,50	15,95
5.019,00	5,00	15,97	9,00	10,60	154,05	0,37	30,81	132,15	101,34	132,15	2,00	2,00	54,00	0,00	67,50	1.927,91	1.457,45	470,47	67,50	33,84
5.019,50	5,00	15,28	9,00	9,34	156,25	0,00	31,25	153,70	122,45	153,70	1,85	1,85	54,00	0,00	67,50	2.050,36	1.524,95	525,42	67,50	54,95
5.020,00	5,00	15,41	9,00	9,63	153,45	0,00	30,69	148,85	118,16	148,85	0,00	0,00	54,00	0,00	67,50	2.168,52	1.592,45	576,08	67,50	50,66
5.020,50	5,00	15,50	9,00	7,11	154,57	0,00	30,91	137,70	106,79	137,70	0,00	0,00	54,00	0,00	67,50	2.275,31	1.659,95	615,36	67,50	39,29
5.021,00	5,00	15,24	9,00	7,22	153,70	0,00	30,74	125,65	94,91	125,65	0,00	0,00	54,00	0,00	67,50	2.370,22	1.727,45	642,77	67,50	27,41
5.021,50	5,00	15,56	9,00	8,97	154,00	0,00	30,80	134,95	104,15	134,95	0,00	0,00	54,00	0,00	67,50	2.474,37	1.794,95	679,42	67,50	36,65
5.022,00	5,00	15,31	9,00	7,58	154,37	0,00	30,87	136,75	105,88	136,75	0,00	0,00	54,00	0,00	67,50	2.580,24	1.862,45	717,80	67,50	38,38
5.022,50	5,00	15,18	9,00	6,88	152,45	0,00	30,49	126,30	95,81	126,30	0,00	0,00	54,00	0,00	67,50	2.676,05	1.929,95	746,11	67,50	28,31
5.023,00	5,00	15,06	9,00	6,43	151,19	0,00	30,24	120,55	90,31	120,55	0,00	0,00	54,00	0,00	67,50	2.766,37	1.997,45	768,92	67,50	22,81
5.023,50	5,00	14,57	9,00	5,05	148,17	0,02	29,63	111,40	81,77	111,40	0,10	0,10	54,00	0,00	67,50	2.848,13	2.064,95	783,19	67,50	14,27
5.024,00	5,00	14,61	9,00	4,48	145,90	0,02	29,18	101,65	72,47	101,65	0,20	0,20	54,00	0,00	67,50	2.920,60	2.132,45	788,16	67,50	4,97
5.024,50	5,00	14,74	9,00	4,63	146,72	0,00	29,34	99,55	70,21	99,55	0,10	0,10	54,00	0,00	67,50	2.990,81	2.199,95	790,86	67,50	2,71
5.025,00	5,00	14,72	9,00	3,53	147,30	0,05	29,46	94,80	65,34	94,80	0,25	0,25	54,00	0,00	67,50	3.056,15	2.267,45	788,70	65,34	-2,16
5.025,50	5,00	15,22	9,00	3,16	149,72	0,23	29,94	87,45	57,51	87,45	1,40	1,40	54,00	0,00	67,50	3.113,65	2.334,95	778,71	57,51	-9,99
5.026,00	5,00	14,69	9,00	4,92	149,58	0,02	29,92	94,40	64,48	94,40	1,25	1,25	54,00	0,00	67,50	3.178,14	2.402,45	775,69	64,48	-3,02
5.026,50	5,00	14,51	9,00	2,22	146,02	0,13	29,20	89,70	60,50	89,70	0,75	0,75	54,00	0,00	67,50	3.238,63	2.469,95	768,69	60,50	-7,00
5.027,00	5,00	14,89	9,00	4,65	147,01	0,00	29,40	88,35	58,95	88,35	0,65	0,65	54,00	0,00	67,50	3.297,58	2.537,45	760,13	58,95	-8,55
5.027,50	5,00	15,04	9,00	5,99	149,65	0,00	29,93	107,20	77,27	107,20	0,00	0,00	54,00	0,00	67,50	3.374,85	2.604,95	769,90	67,50	9,77
5.028,00	5,00	14,91	9,00	5,94	149,77	0,00	29,95	113,65	83,70	113,65	0,00	0,00	54,00	0,00	67,50	3.458,55	2.672,45	786,10	67,50	16,20
5.028,50	5,00	14,72	9,00	5,62	148,15	0,01	29,63	111,80	82,17	111,80	0,05	0,05	54,00	0,00	67,50	3.540,72	2.739,95	800,77	67,50	14,67
5.029,00	5,00	14,75	9,00	5,54	147,34	0,02	29,47	109,80	80,33	109,80	0,15	0,15	54,00	0,00	67,50	3.621,05	2.807,45	813,60	67,50	12,83
5.029,50	5,00	14,62	9,00	5,33	146,84	0,00	29,37	108,35	78,98	108,35	0,10	0,10	54,00	0,00	67,50	3.700,03	2.874,95	825,09	67,50	11,48
5.030,00	5,00	14,58	9,00	3,88	145,96	0,04	29,19	100,05	70,86	100,05	0,20	0,20	54,00	0,00	67,50	3.770,89	2.942,45	828,44	67,50	3,36

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
5.030,50	5,00	14,76	9,00	2,79	146,67	0,10	29,33	87,35	58,02	87,35	0,70	0,70	54,00	0,00	67,50	3.828,91	3.009,95	818,96	58,02	-9,48
5.031,00	5,00	14,68	9,00	3,97	147,21	0,04	29,44	87,80	58,36	87,80	0,70	0,70	54,00	0,00	67,50	3.887,26	3.077,45	809,82	58,36	-9,14
5.031,50	5,00	14,54	9,00	4,80	146,10	0,00	29,22	97,85	68,63	97,85	0,20	0,20	54,00	0,00	67,50	3.955,89	3.144,95	810,95	67,50	1,13
5.032,00	5,00	14,94	9,00	5,60	147,37	0,00	29,47	106,00	76,53	106,00	0,00	0,00	54,00	0,00	67,50	4.032,42	3.212,45	819,97	67,50	9,03
5.032,50	5,00	14,69	9,00	5,76	148,14	0,00	29,63	110,80	81,17	110,80	0,00	0,00	54,00	0,00	67,50	4.113,59	3.279,95	833,65	67,50	13,67
5.033,00	5,00	15,22	9,00	7,44	149,55	0,00	29,91	120,00	90,09	120,00	0,00	0,00	54,00	0,00	67,50	4.203,68	3.347,45	856,24	67,50	22,59
5.033,50	5,00	15,28	9,00	7,40	152,47	0,00	30,49	128,20	97,71	128,20	0,00	0,00	54,00	0,00	67,50	4.301,39	3.414,95	886,44	67,50	30,21
5.034,00	5,00	15,00	9,00	6,01	151,39	0,00	30,28	121,05	90,77	121,05	0,00	0,00	54,00	0,00	67,50	4.392,16	3.482,45	909,71	67,50	23,27
5.034,50	5,00	14,72	9,00	4,95	148,61	0,00	29,72	108,80	79,08	108,80	0,00	0,00	54,00	0,00	67,50	4.471,24	3.549,95	921,29	67,50	11,58
5.034,74	2,38	14,67	9,00	4,71	70,00	0,00	14,00	48,74	34,74	48,74	0,00	0,00	25,73	0,00	32,16	4.505,97	3.582,10	923,87	32,16	2,58

1.4.12 Retorno km 579

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
36,52																				
36,71	1,97	21,56	13,20	0,00	42,47	5,66	8,49	4,45	0,00	8,49	11,15	19,64	15,60	4,04	24,55	0,00	24,55	-24,55	0,00	-24,55
36,75	0,37	22,04	13,20	0,00	16,18	7,07	3,24	1,15	0,00	3,24	4,72	7,96	5,88	2,08	9,95	0,00	34,50	-34,50	0,00	-9,95
37,00	2,50	20,98	13,20	0,00	107,56	4,77	21,51	10,00	0,00	21,51	29,60	51,11	39,60	11,51	63,89	0,00	98,39	-98,39	0,00	-63,89
37,25	2,50	19,90	13,20	4,37	102,19	0,54	20,44	50,53	30,09	50,53	13,28	13,28	39,60	0,00	49,50	30,09	147,89	-117,80	30,09	-19,41
37,45	1,99	20,11	13,20	9,94	79,49	0,28	15,90	59,91	44,01	59,91	1,63	1,63	31,47	0,00	39,34	74,10	187,23	-113,13	39,34	4,67
37,45	0,01	20,11	13,20	9,94	0,28	0,28	0,06	0,25	0,19	0,25	0,00	0,00	0,11	0,00	0,14	74,29	187,37	-113,08	0,14	0,06
37,50	0,51	20,16	13,18	9,85	20,38	0,29	4,08	18,02	13,95	18,02	0,29	0,29	8,01	0,00	10,01	88,24	197,38	-109,14	10,01	3,94
37,75	2,50	19,15	12,53	5,78	98,27	0,60	19,65	77,64	57,98	77,64	2,23	2,23	38,56	0,00	48,20	146,22	245,58	-99,36	48,20	9,78
37,82	0,73	19,21	12,16	5,45	28,15	0,80	5,63	19,12	13,49	19,12	1,03	1,03	10,87	0,00	13,59	159,71	259,17	-99,47	13,49	-0,11
38,00	1,77	16,22	11,25	5,27	62,57	0,45	12,51	43,74	31,22	43,74	2,21	2,21	24,81	0,00	31,01	190,93	290,18	-99,25	31,01	0,22
38,20	1,97	17,01	10,52	5,84	65,60	0,35	13,12	47,72	34,60	47,72	1,58	1,58	25,79	0,00	32,23	225,53	322,41	-96,89	32,23	2,36
38,50	3,03	16,53	9,65	8,24	101,49	0,26	20,30	79,23	58,93	79,23	1,85	1,85	36,62	0,00	45,78	284,46	368,19	-83,74	45,78	13,15
39,00	5,00	14,79	8,17	4,34	156,59	0,29	31,32	116,35	85,03	116,35	2,75	2,75	53,45	0,00	66,81	369,48	435,00	-65,51	66,81	18,22
39,50	5,00	13,71	7,21	1,67	142,49	0,81	28,50	76,17	47,67	76,17	5,50	5,50	46,12	0,00	57,65	417,16	492,65	-75,49	47,67	-9,98
40,00	5,00	12,52	6,74	3,89	131,14	0,02	26,23	69,65	43,42	69,65	4,15	4,15	41,85	0,00	52,31	460,57	544,96	-84,38	43,42	-8,89
40,50	5,00	12,82	6,70	4,70	126,69	0,02	25,34	83,28	57,94	83,28	0,20	0,20	40,33	0,00	50,42	518,52	595,37	-76,85	50,42	7,53
40,56	0,62	12,59	6,70	4,08	15,68	0,01	3,14	10,38	7,24	10,38	0,02	0,02	4,96	0,00	6,20	525,76	601,57	-75,81	6,20	1,04

1.4.13 Agulha 1000

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.000,00		6,31	0,60																	
1.000,50	5,00	6,37	0,70	0,49	63,39	0,06	12,68	6,35	0,00	12,68	0,30	12,98	3,90	9,08	16,22	0,00	16,22	-16,22	0,00	-16,22
1.001,00	5,00	6,83	1,00	0,57	66,03	0,10	13,21	10,40	0,00	13,21	0,80	14,01	5,10	8,91	17,51	0,00	33,73	-33,73	0,00	-17,51
1.001,50	5,00	7,93	1,50	0,68	73,84	0,33	14,77	13,75	0,00	14,77	2,15	16,92	7,50	9,42	21,15	0,00	54,88	-54,88	0,00	-21,15
1.002,00	5,00	8,30	2,20	0,76	81,17	0,28	16,23	18,31	2,08	18,31	3,05	3,05	11,11	0,00	13,89	2,08	68,77	-66,69	2,08	-11,81
1.002,50	5,00	10,10	3,11	0,68	91,99	0,85	18,40	23,13	4,73	23,13	5,65	5,65	15,93	0,00	19,91	6,81	88,68	-81,87	4,73	-15,18
1.003,00	5,00	11,27	4,21	0,90	106,84	0,80	21,37	29,86	8,49	29,86	8,25	8,25	21,96	0,00	27,45	15,30	116,12	-100,83	8,49	-18,96
1.003,36	3,62	14,48	5,14	0,91	93,13	2,02	18,63	26,84	8,22	26,84	10,20	10,20	20,30	0,00	25,37	23,51	141,50	-117,98	8,22	-17,15

1.4.14 Marginal esquerda 1100

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.104,79		0,00	0,00																	
1.104,97	1,80	13,50	3,65	0,00	24,31	27,02	4,86	0,00	0,00	4,86	48,64	53,50	3,94	49,55	66,87	0,00	66,87	-66,87	0,00	-66,87
1.105,00	0,28	13,42	3,67	0,00	7,44	26,88	1,49	0,00	0,00	1,49	14,90	16,39	1,21	15,18	20,49	0,00	87,36	-87,36	0,00	-20,49
1.105,16	1,65	13,32	3,83	0,00	44,06	26,75	8,81	0,00	0,00	8,81	88,38	97,19	7,41	89,78	121,49	0,00	208,85	-208,85	0,00	-121,49
1.105,27	1,08	13,48	3,97	0,00	28,82	27,08	5,76	0,00	0,00	5,76	57,89	63,66	5,03	58,62	79,57	0,00	288,43	-288,43	0,00	-79,57
1.105,46	1,92	14,00	4,34	0,00	52,88	28,44	10,58	0,00	0,00	10,58	106,85	117,43	9,59	107,83	146,78	0,00	435,21	-435,21	0,00	-146,78
1.105,64	1,80	14,49	4,79	0,00	51,28	29,59	10,26	0,00	0,00	10,26	104,45	114,71	9,85	104,86	143,39	0,00	578,60	-578,60	0,00	-143,39
1.106,00	3,55	15,54	5,77	0,00	106,65	36,01	21,33	0,00	0,00	21,33	233,01	254,34	22,50	231,84	317,93	0,00	896,52	-896,52	0,00	-317,93
1.106,50	5,00	15,54	5,77	0,00	155,37	33,86	31,07	0,00	0,00	31,07	349,35	380,42	34,63	345,80	475,53	0,00	1.372,05	-1.372,05	0,00	-475,53
1.107,00	5,00	22,75	6,00	0,00	191,43	45,94	38,29	0,00	0,00	38,29	399,00	437,29	35,31	401,97	546,61	0,00	1.918,66	-1.918,66	0,00	-546,61
1.107,29	2,89	22,73	6,00	0,00	131,34	44,19	26,27	0,00	0,00	26,27	260,30	286,56	20,79	265,77	358,20	0,00	2.276,86	-2.276,86	0,00	-358,20
1.107,55	2,60	22,61	6,00	0,00	117,86	42,48	23,57	0,00	0,00	23,57	225,30	248,87	18,72	230,15	311,09	0,00	2.587,95	-2.587,95	0,00	-311,09
1.107,65	1,00	22,56	6,00	0,00	45,17	41,71	9,03	0,00	0,00	9,03	84,19	93,22	7,20	86,02	116,53	0,00	2.704,48	-2.704,48	0,00	-116,53
1.108,00	3,51	22,68	6,00	0,00	158,90	40,01	31,78	0,00	0,00	31,78	287,04	318,82	25,29	293,53	398,53	0,00	3.103,01	-3.103,01	0,00	-398,53
1.108,25	2,50	22,68	6,00	0,00	113,42	39,98	22,68	0,00	0,00	22,68	199,98	222,66	18,00	204,66	278,32	0,00	3.381,33	-3.381,33	0,00	-278,32
1.108,45	1,95	22,69	6,00	0,00	88,48	40,11	17,70	0,00	0,00	17,70	156,18	173,87	14,04	159,83	217,34	0,00	3.598,67	-3.598,67	0,00	-217,34
1.108,55	1,00	22,70	6,00	0,00	45,39	40,36	9,08	0,00	0,00	9,08	80,47	89,55	7,20	82,35	111,94	0,00	3.710,61	-3.710,61	0,00	-111,94
1.108,80	2,60	22,05	12,71	0,00	116,34	47,34	23,27	0,00	0,00	23,27	227,98	251,24	29,19	222,06	314,06	0,00	4.024,67	-4.024,67	0,00	-314,06
1.109,00	1,95	22,95	13,66	0,00	87,78	47,59	17,56	0,00	0,00	17,56	185,16	202,72	30,86	171,85	253,40	0,00	4.278,06	-4.278,06	0,00	-253,40
1.109,47	4,68	25,45	9,78	0,00	226,59	47,26	45,32	0,00	0,00	45,32	444,09	489,41	65,84	423,56	611,76	0,00	4.889,82	-4.889,82	0,00	-611,76
1.109,50	0,32	25,45	9,78	0,00	16,18	46,58	3,24	0,00	0,00	3,24	29,84	33,08	3,73	29,35	41,35	0,00	4.931,17	-4.931,17	0,00	-41,35
1.109,62	1,22	24,61	9,06	0,00	60,96	44,81	12,19	0,00	0,00	12,19	111,31	123,51	13,77	109,73	154,38	0,00	5.085,55	-5.085,55	0,00	-154,38
1.109,78	1,54	23,91	8,04	0,00	74,52	41,91	14,90	0,00	0,00	14,90	133,20	148,11	15,76	132,35	185,13	0,00	5.270,68	-5.270,68	0,00	-185,13

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.110,00	2,25	22,01	6,20	0,00	103,15	36,72	20,63	0,00	0,00	20,63	176,60	197,23	19,19	178,04	246,54	0,00	5.517,22	-5.517,22	0,00	-246,54
1.110,50	5,00	22,01	6,20	0,00	220,15	29,33	44,03	0,00	0,00	44,03	330,25	374,28	37,22	337,06	467,85	0,00	5.985,07	-5.985,07	0,00	-467,85
1.111,00	5,00	17,93	5,50	0,00	199,70	22,50	39,94	0,00	0,00	39,94	259,15	299,09	35,11	263,98	373,86	0,00	6.358,94	-6.358,94	0,00	-373,86
1.111,49	4,85	16,90	5,50	0,00	169,02	12,02	33,80	0,00	0,00	33,80	167,56	201,36	32,04	169,33	251,71	0,00	6.610,64	-6.610,64	0,00	-251,71
1.111,69	2,00	16,42	5,50	0,00	66,65	10,05	13,33	0,00	0,00	13,33	44,15	57,48	13,20	44,28	71,85	0,00	6.682,49	-6.682,49	0,00	-71,85
1.111,94	2,50	15,80	5,50	0,00	80,57	7,63	16,11	0,00	0,00	16,11	44,20	60,31	16,50	43,81	75,39	0,00	6.757,89	-6.757,89	0,00	-75,39
1.112,00	0,65	15,70	5,50	0,00	20,34	7,12	4,07	0,00	0,00	4,07	9,52	13,59	4,26	9,33	16,99	0,00	6.774,87	-6.774,87	0,00	-16,99
1.112,16	1,56	15,31	5,50	0,00	48,30	5,88	9,66	0,00	0,00	9,66	20,25	29,91	10,28	19,63	37,39	0,00	6.812,26	-6.812,26	0,00	-37,39
1.112,25	0,94	15,31	5,50	0,00	28,86	5,21	5,77	0,00	0,00	5,77	10,45	16,22	6,22	10,00	20,28	0,00	6.832,54	-6.832,54	0,00	-20,28
1.112,38	1,26	14,70	5,50	0,00	37,82	5,02	7,56	0,00	0,00	7,56	12,89	20,46	8,32	12,14	25,57	0,00	6.858,11	-6.858,11	0,00	-25,57
1.112,63	2,50	14,46	5,50	0,00	72,89	4,39	14,58	0,00	0,00	14,58	23,53	38,10	16,50	21,60	47,63	0,00	6.905,74	-6.905,74	0,00	-47,63
1.112,83	2,00	14,36	5,50	0,00	57,64	4,06	11,53	0,00	0,00	11,53	16,90	28,43	13,20	15,23	35,53	0,00	6.941,28	-6.941,28	0,00	-35,53
1.113,00	1,74	9,42	5,50	0,00	41,36	3,59	8,27	0,00	0,00	8,27	13,31	21,58	11,48	10,10	26,97	0,00	6.968,25	-6.968,25	0,00	-26,97
1.113,50	5,00	9,42	5,50	0,00	94,16	4,07	18,83	0,00	0,00	18,83	38,30	57,13	33,00	24,13	71,41	0,00	7.039,66	-7.039,66	0,00	-71,41
1.114,00	5,00	13,57	5,50	0,02	114,90	2,46	22,98	33,10	10,12	33,10	32,65	32,65	33,00	0,00	41,25	10,12	7.080,91	-7.070,79	10,12	-31,13
1.114,50	5,00	13,57	5,50	0,03	135,65	2,30	27,13	33,25	6,12	33,25	23,80	23,80	33,00	0,00	41,25	16,24	7.122,16	-7.105,92	6,12	-35,13
1.115,00	5,00	13,36	5,50	0,23	134,63	1,07	26,93	34,30	7,37	34,30	16,85	16,85	33,00	0,00	41,25	23,61	7.163,41	-7.139,80	7,37	-33,88
1.115,50	5,00	13,36	5,50	0,23	133,61	0,83	26,72	35,30	8,58	35,30	9,50	9,50	33,00	0,00	41,25	32,19	7.204,66	-7.172,47	8,58	-32,67
1.116,00	5,00	12,53	5,50	1,14	129,45	0,54	25,89	39,85	13,96	39,85	6,85	6,85	33,00	0,00	41,25	46,15	7.245,91	-7.199,76	13,96	-27,29
1.116,50	5,00	12,53	5,50	1,49	125,29	0,39	25,06	46,15	21,09	46,15	4,65	4,65	33,00	0,00	41,25	67,24	7.287,16	-7.219,92	21,09	-20,16
1.117,00	5,00	12,02	5,50	1,75	122,75	0,28	24,55	49,20	24,65	49,20	3,35	3,35	33,00	0,00	41,25	91,89	7.328,41	-7.236,52	24,65	-16,60
1.117,50	5,00	12,02	5,50	2,08	120,22	0,13	24,04	52,15	28,11	52,15	2,05	2,05	33,00	0,00	41,25	120,00	7.369,66	-7.249,66	28,11	-13,14
1.118,00	5,00	12,17	5,50	2,43	120,94	0,11	24,19	55,55	31,36	55,55	1,20	1,20	33,00	0,00	41,25	151,36	7.410,91	-7.259,55	31,36	-9,89
1.118,50	5,00	12,17	5,50	2,72	121,66	0,02	24,33	58,75	34,42	58,75	0,65	0,65	33,00	0,00	41,25	185,78	7.452,16	-7.266,38	34,42	-6,83
1.119,00	5,00	11,72	5,50	2,32	119,44	0,14	23,89	58,20	34,31	58,20	0,80	0,80	33,00	0,00	41,25	220,09	7.493,41	-7.273,32	34,31	-6,94

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.119,50	5,00	11,72	5,50	3,40	117,22	0,10	23,44	61,60	38,16	61,60	1,20	1,20	33,00	0,00	41,25	258,25	7.534,66	-7.276,42	38,16	-3,09
1.120,00	5,00	12,13	5,50	2,95	119,25	0,05	23,85	64,75	40,90	64,75	0,75	0,75	33,00	0,00	41,25	299,15	7.575,91	-7.276,77	40,90	-0,35
1.120,50	5,00	12,13	5,50	3,62	121,27	0,07	24,25	65,85	41,60	65,85	0,60	0,60	33,00	0,00	41,25	340,74	7.617,16	-7.276,42	41,25	0,35
1.121,00	5,00	12,36	5,50	3,52	122,44	0,02	24,49	68,70	44,21	68,70	0,45	0,45	33,00	0,00	41,25	384,96	7.658,41	-7.273,46	41,25	2,96
1.121,50	5,00	12,36	5,50	3,59	123,62	0,03	24,72	68,55	43,83	68,55	0,25	0,25	33,00	0,00	41,25	428,78	7.699,66	-7.270,88	41,25	2,58
1.122,00	5,00	12,48	5,50	4,15	124,22	0,04	24,84	71,70	46,86	71,70	0,35	0,35	33,00	0,00	41,25	475,64	7.740,91	-7.265,28	41,25	5,61
1.122,50	5,00	12,48	5,50	8,55	124,81	0,00	24,96	96,50	71,54	96,50	0,20	0,20	33,00	0,00	41,25	547,17	7.782,16	-7.234,99	41,25	30,29
1.123,00	5,00	15,17	5,50	9,73	138,27	0,00	27,65	124,40	96,75	124,40	0,00	0,00	33,00	0,00	41,25	643,92	7.823,41	-7.179,49	41,25	55,50
1.123,50	5,00	15,17	5,50	10,93	151,73	0,07	30,35	136,30	105,95	136,30	0,35	0,35	33,00	0,00	41,25	749,88	7.864,66	-7.114,79	41,25	64,70
1.124,00	5,00	14,84	5,50	10,92	150,07	0,00	30,01	142,25	112,24	142,25	0,35	0,35	33,00	0,00	41,25	862,11	7.905,91	-7.043,80	41,25	70,99
1.124,50	5,00	14,84	5,50	13,08	148,40	0,00	29,68	153,00	123,32	153,00	0,00	0,00	33,00	0,00	41,25	985,43	7.947,16	-6.961,73	41,25	82,07
1.125,00	5,00	14,97	5,50	12,16	149,06	0,00	29,81	159,20	129,39	159,20	0,00	0,00	33,00	0,00	41,25	1.114,82	7.988,41	-6.873,59	41,25	88,14
1.125,50	5,00	14,97	5,50	12,61	149,72	0,00	29,94	156,85	126,91	156,85	0,00	0,00	33,00	0,00	41,25	1.241,73	8.029,66	-6.787,94	41,25	85,66
1.126,00	5,00	14,64	5,50	11,83	148,08	0,00	29,62	155,20	125,58	155,20	0,00	0,00	33,00	0,00	41,25	1.367,31	8.070,91	-6.703,60	41,25	84,33
1.126,50	5,00	14,64	5,50	10,35	146,44	0,00	29,29	143,90	114,61	143,90	0,00	0,00	33,00	0,00	41,25	1.481,92	8.112,16	-6.630,24	41,25	73,36
1.127,00	5,00	14,29	5,50	9,51	144,65	0,00	28,93	132,30	103,37	132,30	0,00	0,00	33,00	0,00	41,25	1.585,29	8.153,41	-6.568,12	41,25	62,12
1.127,50	5,00	14,29	5,50	10,36	142,86	0,00	28,57	132,35	103,78	132,35	0,00	0,00	33,00	0,00	41,25	1.689,07	8.194,66	-6.505,59	41,25	62,53
1.128,00	5,00	14,63	5,50	11,59	144,56	0,00	28,91	142,75	113,84	142,75	0,00	0,00	33,00	0,00	41,25	1.802,91	8.235,91	-6.433,01	41,25	72,59
1.128,50	5,00	14,63	5,50	11,67	146,27	0,00	29,25	149,30	120,05	149,30	0,00	0,00	33,00	0,00	41,25	1.922,95	8.277,16	-6.354,21	41,25	78,80
1.129,00	5,00	14,19	5,50	9,37	144,08	0,00	28,82	138,20	109,38	138,20	0,00	0,00	33,00	0,00	41,25	2.032,34	8.318,41	-6.286,07	41,25	68,13
1.129,16	1,63	14,04	5,50	8,53	46,11	0,00	9,22	40,02	30,80	40,02	0,00	0,00	10,78	0,00	13,48	2.063,14	8.331,89	-6.268,75	13,48	17,32
1.129,50	3,37	14,04	5,50	8,13	94,53	0,00	18,91	78,30	59,40	78,30	0,00	0,00	22,22	0,00	27,77	2.122,54	8.359,66	-6.237,13	27,77	31,62
1.129,66	1,63	13,86	5,50	8,39	45,57	0,00	9,11	37,77	28,65	37,77	0,00	0,00	10,78	0,00	13,48	2.151,19	8.373,14	-6.221,95	13,48	15,18
1.129,98	3,20	13,98	5,50	8,63	89,07	0,00	17,81	75,58	57,77	75,58	0,00	0,00	21,12	0,00	26,40	2.208,96	8.399,54	-6.190,58	26,40	31,37
1.130,00	0,17	13,98	5,50	8,64	4,65	0,00	0,93	3,97	3,04	3,97	0,00	0,00	1,10	0,00	1,37	2.212,00	8.400,91	-6.188,91	1,37	1,67

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.130,25	2,50	13,98	5,50	8,82	69,90	0,00	13,98	60,15	46,17	60,15	0,00	0,00	16,50	0,00	20,63	2.258,17	8.421,54	-6.163,37	20,63	25,55
1.130,46	2,13	14,11	5,50	9,04	59,93	0,00	11,99	52,19	40,20	52,19	0,00	0,00	14,08	0,00	17,60	2.298,37	8.439,14	-6.140,77	17,60	22,60
1.130,50	0,37	14,11	5,50	9,05	10,34	0,00	2,07	9,05	6,98	9,05	0,00	0,00	2,42	0,00	3,02	2.305,35	8.442,16	-6.136,81	3,02	3,96
1.130,52	0,19	14,12	5,50	9,05	5,38	0,00	1,08	4,71	3,63	4,71	0,00	0,00	1,26	0,00	1,57	2.308,98	8.443,74	-6.134,75	1,57	2,06
1.130,57	0,56	14,08	5,50	8,99	15,70	0,00	3,14	13,71	10,57	13,71	0,00	0,00	3,67	0,00	4,59	2.319,56	8.448,33	-6.128,77	4,59	5,98
1.130,75	1,75	14,08	5,50	7,14	49,37	0,00	9,87	39,85	29,97	39,85	0,00	0,00	11,57	0,00	14,46	2.349,53	8.462,79	-6.113,26	14,46	15,51
1.131,00	2,50	13,47	5,50	7,13	68,88	0,00	13,78	52,18	38,40	52,18	0,00	0,00	16,50	0,00	20,63	2.387,93	8.483,41	-6.095,49	20,63	17,77
1.131,05	0,55	13,47	5,50	7,19	14,74	0,00	2,95	11,44	8,50	11,44	0,00	0,00	3,61	0,00	4,51	2.396,42	8.487,93	-6.091,50	4,51	3,98
1.131,37	3,20	13,51	5,50	7,47	86,36	0,00	17,27	68,03	50,76	68,03	0,00	0,00	21,12	0,00	26,40	2.447,18	8.514,33	-6.067,14	26,40	24,36
1.131,50	1,25	13,51	5,50	7,53	33,86	0,00	6,77	27,06	20,29	27,06	0,00	0,00	8,27	0,00	10,34	2.467,48	8.524,66	-6.057,19	10,34	9,96
1.131,67	1,71	13,55	5,50	7,60	46,25	0,00	9,25	37,14	27,89	37,14	0,00	0,00	11,28	0,00	14,10	2.495,36	8.538,76	-6.043,40	14,10	13,79
1.131,75	0,79	13,55	5,50	7,66	21,43	0,00	4,29	17,29	13,00	17,29	0,00	0,00	5,22	0,00	6,53	2.508,37	8.545,29	-6.036,92	6,53	6,48
1.131,87	1,21	13,54	5,34	7,60	32,75	0,00	6,55	26,31	19,76	26,31	0,00	0,00	7,86	0,00	9,83	2.528,13	8.555,12	-6.026,99	9,83	9,93
1.131,87	0,04	13,53	5,33	7,59	1,03	0,00	0,21	0,82	0,61	0,82	0,00	0,00	0,24	0,00	0,30	2.528,74	8.555,42	-6.026,68	0,30	0,31
1.132,00	1,25	13,03	4,97	6,75	33,27	0,00	6,65	25,71	19,05	25,71	0,00	0,00	7,74	0,00	9,67	2.547,79	8.565,09	-6.017,30	9,67	9,38
1.132,12	1,21	12,54	4,66	6,21	30,91	0,00	6,18	22,65	16,47	22,65	0,00	0,00	6,98	0,00	8,73	2.564,26	8.573,82	-6.009,56	8,73	7,74
1.132,25	1,29	12,54	4,66	5,78	32,38	0,00	6,48	22,70	16,22	22,70	0,00	0,00	7,22	0,00	9,03	2.580,49	8.582,85	-6.002,36	9,03	7,20
1.132,35	0,96	11,89	4,20	5,51	23,42	0,00	4,68	15,91	11,23	15,91	0,00	0,00	5,09	0,00	6,37	2.591,72	8.589,22	-5.997,50	6,37	4,87
1.132,50	1,54	11,89	4,20	5,13	36,65	0,00	7,33	24,16	16,83	24,16	0,00	0,00	7,76	0,00	9,70	2.608,55	8.598,92	-5.990,36	9,70	7,13
1.132,57	0,71	11,46	3,86	4,97	16,53	0,00	3,31	10,57	7,27	10,57	0,00	0,00	3,42	0,00	4,28	2.615,82	8.603,19	-5.987,38	4,28	2,99
1.132,75	1,79	11,46	3,86	4,54	41,06	0,00	8,21	25,35	17,14	25,35	0,00	0,00	8,31	0,00	10,39	2.632,96	8.613,58	-5.980,62	10,39	6,75
1.132,82	0,71	11,08	3,65	4,35	15,96	0,00	3,19	9,49	6,30	9,49	0,00	0,00	3,19	0,00	3,99	2.639,25	8.617,57	-5.978,32	3,99	2,30
1.133,00	1,79	10,95	3,60	4,08	39,48	0,00	7,90	22,90	15,01	22,90	0,00	0,00	7,80	0,00	9,75	2.654,26	8.627,32	-5.973,06	9,75	5,26
1.133,02	0,21	10,95	3,60	4,06	4,55	0,00	0,91	2,59	1,68	2,59	0,00	0,00	0,90	0,00	1,12	2.655,94	8.628,44	-5.972,50	1,12	0,56

1.4.15 Taper e retorno 1200

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.202,04		0,00	0,00																	
1.202,50	4,57	12,37	5,80	1,31	56,53	1,45	11,31	21,90	10,59	21,90	6,63	6,63	15,91	0,00	19,88	10,59	19,88	-9,30	10,59	-9,30
1.203,00	5,00	8,68	3,60	1,09	105,25	0,16	21,05	40,20	19,15	40,20	8,05	8,05	28,20	0,00	35,25	29,74	55,14	-25,40	19,15	-16,10
1.203,50	5,00	8,68	3,60	1,46	86,83	0,08	17,37	34,36	16,99	34,36	1,20	1,20	21,61	0,00	27,01	46,73	82,15	-35,41	16,99	-10,02
1.204,00	5,00	8,68	3,60	1,63	86,81	0,12	17,36	37,05	19,69	37,05	1,00	1,00	21,60	0,00	27,00	66,42	109,15	-42,73	19,69	-7,31
1.204,50	5,00	8,69	3,60	1,59	86,85	0,12	17,37	37,70	20,33	37,70	1,20	1,20	21,60	0,00	27,00	86,75	136,15	-49,40	20,33	-6,67
1.205,00	5,00	8,78	3,60	1,58	87,37	0,18	17,47	37,44	19,97	37,44	1,50	1,50	21,59	0,00	26,99	106,72	163,14	-56,42	19,97	-7,02
1.205,50	5,00	8,77	3,60	1,47	87,77	0,17	17,55	36,84	19,29	36,84	1,75	1,75	21,59	0,00	26,99	126,01	190,13	-64,12	19,29	-7,70
1.206,00	5,00	8,52	3,60	1,73	86,46	0,05	17,29	37,59	20,30	37,59	1,10	1,10	21,59	0,00	26,99	146,31	217,12	-70,81	20,30	-6,69
1.206,50	5,00	8,56	3,60	1,67	85,42	0,07	17,08	38,59	21,50	38,59	0,60	0,60	21,59	0,00	26,99	167,81	244,10	-76,29	21,50	-5,48
1.207,00	5,00	8,43	3,60	1,60	84,97	0,04	16,99	37,94	20,94	37,94	0,55	0,55	21,59	0,00	26,99	188,76	271,09	-82,33	20,94	-6,04
1.207,50	5,00	8,71	3,60	1,48	85,72	0,14	17,14	36,99	19,84	36,99	0,90	0,90	21,59	0,00	26,99	208,60	298,07	-89,47	19,84	-7,14
1.208,00	5,00	8,13	3,20	1,57	84,22	0,05	16,84	35,65	18,81	35,65	0,95	0,95	20,40	0,00	25,50	227,41	323,58	-96,17	18,81	-6,70
1.208,50	5,00	8,41	2,80	2,27	82,72	0,00	16,54	37,22	20,67	37,22	0,25	0,25	18,02	0,00	22,52	248,08	346,10	-98,02	20,67	-1,85
1.209,00	5,00	7,33	2,40	1,27	78,71	0,06	15,74	33,31	17,57	33,31	0,30	0,30	15,61	0,00	19,52	265,65	365,61	-99,96	17,57	-1,95
1.209,50	5,00	6,93	2,00	1,01	71,28	0,06	14,26	24,61	10,36	24,61	0,60	0,60	13,21	0,00	16,52	276,01	382,13	-106,12	10,36	-6,16
1.210,00	5,00	6,54	1,60	0,86	67,34	0,08	13,47	20,16	6,69	20,16	0,70	0,70	10,81	0,00	13,51	282,70	395,64	-112,94	6,69	-6,82
1.210,50	5,00	6,23	1,20	0,80	63,89	0,09	12,78	16,71	3,93	16,71	0,85	0,85	8,41	0,00	10,51	286,63	406,15	-119,52	3,93	-6,58
1.211,00	5,00	5,70	0,80	0,63	59,70	0,03	11,94	13,16	1,22	13,16	0,60	0,60	6,01	0,00	7,51	287,84	413,65	-125,81	1,22	-6,29
1.211,50	5,00	6,19	0,40	0,98	59,46	0,00	11,89	11,65	0,00	11,89	0,15	12,04	3,60	8,44	15,05	287,84	428,71	-140,86	0,00	-15,05
1.212,00	5,00	5,62	0,00	0,70	59,06	0,00	11,81	9,60	0,00	11,81	0,00	11,81	1,20	10,61	14,77	287,84	443,47	-155,63	0,00	-14,77

1.4.16 Agulha de acesso 1300

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.300,00		6,07	2,50																	
1.300,50	5,00	6,13	2,50	0,91	60,99	0,36	12,20	19,55	7,35	19,55	1,80	1,80	15,00	0,00	18,75	7,35	18,75	-11,40	7,35	-11,40
1.301,00	5,00	5,51	2,50	1,25	58,20	0,02	11,64	25,80	14,16	25,80	1,90	1,90	15,00	0,00	18,75	21,51	37,50	-15,99	14,16	-4,59
1.301,50	5,00	6,15	2,50	1,62	58,31	0,11	11,66	29,35	17,69	29,35	0,65	0,65	15,00	0,00	18,75	39,20	56,25	-17,05	17,69	-1,06
1.302,00	5,00	5,64	2,50	1,07	58,95	0,10	11,79	28,45	16,66	28,45	1,05	1,05	15,00	0,00	18,75	55,86	75,00	-19,14	16,66	-2,09
1.302,50	5,00	6,43	3,00	1,57	60,35	0,28	12,07	29,70	17,63	29,70	1,90	1,90	16,50	0,00	20,63	73,49	95,63	-22,13	17,63	-3,00
1.303,00	5,00	6,65	3,60	1,65	65,37	0,02	13,07	35,90	22,83	35,90	1,50	1,50	19,80	0,00	24,75	96,32	120,38	-24,06	22,83	-1,92
1.303,50	5,00	6,65	3,60	2,23	66,47	0,29	13,29	41,00	27,71	41,00	1,55	1,55	21,60	0,00	27,00	124,02	147,38	-23,35	27,00	0,71
1.304,00	5,00	7,89	4,20	2,39	72,68	0,00	14,54	46,50	31,96	46,50	1,45	1,45	23,40	0,00	29,25	155,99	176,63	-20,64	29,25	2,71
1.304,50	5,00	7,39	4,20	2,34	76,41	0,17	15,28	48,85	33,57	48,85	0,85	0,85	25,20	0,00	31,50	189,56	208,13	-18,57	31,50	2,07
1.305,00	5,00	7,76	4,20	1,65	75,75	0,37	15,15	45,15	30,00	45,15	2,70	2,70	25,20	0,00	31,50	219,56	239,63	-20,07	30,00	-1,50
1.305,50	5,00	7,97	4,20	2,54	78,63	0,00	15,73	46,15	30,42	46,15	1,85	1,85	25,20	0,00	31,50	249,98	271,13	-21,14	30,42	-1,08
1.306,00	5,00	8,15	4,20	2,31	80,58	0,00	16,12	49,45	33,33	49,45	0,00	0,00	25,20	0,00	31,50	283,31	302,63	-19,31	31,50	1,83
1.306,50	5,00	7,74	4,20	2,21	79,44	0,30	15,89	47,80	31,91	47,80	1,50	1,50	25,20	0,00	31,50	315,23	334,13	-18,90	31,50	0,41
1.307,00	5,00	8,04	4,20	2,85	78,90	0,00	15,78	50,50	34,72	50,50	1,50	1,50	25,20	0,00	31,50	349,95	365,63	-15,68	31,50	3,22
1.307,50	5,00	7,56	4,20	2,31	77,99	0,09	15,60	51,00	35,40	51,00	0,45	0,45	25,20	0,00	31,50	385,35	397,13	-11,77	31,50	3,90
1.308,00	5,00	7,79	4,20	2,57	76,73	0,00	15,35	49,60	34,25	49,60	0,45	0,45	25,20	0,00	31,50	419,61	428,63	-9,02	31,50	2,75
1.308,46	4,60	7,73	4,20	2,67	71,40	0,08	14,28	47,31	33,03	47,31	0,37	0,37	23,19	0,00	28,99	452,63	457,62	-4,98	28,99	4,04
1.308,50	0,40	11,13	4,20	2,69	7,51	0,03	1,50	4,14	2,64	4,14	0,04	0,04	2,01	0,00	2,51	455,27	460,13	-4,85	2,51	0,13
1.309,00	5,00	11,92	4,97	2,94	115,28	0,06	23,06	55,65	32,59	55,65	0,45	0,45	27,50	0,00	34,37	487,86	494,50	-6,63	32,59	-1,78
1.309,15	1,50	12,96	5,54	3,27	37,22	0,08	7,44	18,72	11,27	18,72	0,21	0,21	9,43	0,00	11,78	499,13	506,28	-7,15	11,27	-0,51
1.309,50	3,50	15,00	7,07	3,49	97,96	0,12	19,59	50,18	30,59	50,18	0,70	0,70	26,49	0,00	33,12	529,72	539,40	-9,67	30,59	-2,53
1.309,84	3,39	14,65	6,52	3,38	100,50	0,24	20,10	50,91	30,81	50,91	1,22	1,22	27,62	0,00	34,52	560,53	573,92	-13,39	30,81	-3,72

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.310,00	1,61	14,62	6,50	4,75	47,14	0,53	9,43	25,67	16,25	25,67	1,24	1,24	12,58	0,00	15,72	576,77	589,64	-12,87	15,72	0,52
1.310,12	1,18	14,93	6,66	5,91	34,78	0,47	6,96	21,84	14,89	21,84	1,18	1,18	9,30	0,00	11,62	591,66	601,27	-9,60	11,62	3,27
1.310,50	3,82	23,99	15,35	15,93	148,78	0,29	29,76	133,98	104,23	133,98	2,91	2,91	50,49	0,00	63,11	695,89	664,38	31,51	63,11	41,12
1.311,00	5,00	23,15	15,22	13,62	235,69	0,07	47,14	239,44	192,30	239,44	1,80	1,80	91,69	0,00	114,61	888,19	778,99	109,20	114,61	77,69
1.311,04	0,37	22,92	15,03	13,48	16,98	0,05	3,40	16,67	13,28	16,67	0,04	0,04	6,69	0,00	8,36	901,47	787,35	114,12	8,36	4,92
1.311,50	4,63	15,01	7,41	4,86	175,68	0,19	35,14	147,28	112,15	147,28	1,11	1,11	62,34	0,00	77,93	1.013,61	865,27	148,34	77,93	34,22
1.311,96	4,56	20,37	12,28	6,82	161,34	0,30	32,27	107,13	74,86	107,13	2,23	2,23	53,86	0,00	67,33	1.088,47	932,60	155,87	67,33	7,53
1.312,00	0,44	20,48	12,27	6,85	17,95	0,39	3,59	12,48	8,89	12,48	0,30	0,30	6,47	0,00	8,09	1.097,36	940,69	156,67	8,09	0,80
1.312,50	5,00	20,63	12,18	7,41	205,57	0,47	41,11	144,63	103,51	144,63	4,30	4,30	73,33	0,00	91,66	1.200,88	1.032,35	168,53	91,66	11,85
1.312,61	1,15	20,67	12,16	7,55	47,41	0,50	9,48	33,93	24,45	33,93	1,11	1,11	16,76	0,00	20,95	1.225,33	1.053,30	172,03	20,95	3,50

1.4.17 Agulha de acesso 1400

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.400,00		7,38	3,50																	
1.400,25	2,50	7,18	3,50	1,07	36,41	0,19	7,28	13,18	5,89	13,18	0,48	0,48	10,50	0,00	13,13	5,89	13,13	-7,23	5,89	-7,23
1.400,50	2,50	7,13	3,50	1,35	35,78	0,15	7,16	16,55	9,39	16,55	0,85	0,85	10,50	0,00	13,13	15,29	26,25	-10,96	9,39	-3,73
1.400,73	2,35	7,09	3,50	1,46	33,37	0,13	6,67	16,45	9,77	16,45	0,66	0,66	9,85	0,00	12,32	25,06	38,57	-13,51	9,77	-2,55
1.400,75	0,15	7,09	3,50	1,47	2,18	0,13	0,44	1,10	0,66	1,10	0,04	0,04	0,65	0,00	0,81	25,72	39,38	-13,66	0,66	-0,15
1.401,00	2,50	7,08	3,50	1,25	35,43	0,12	7,09	17,30	10,21	17,30	0,63	0,63	10,50	0,00	13,13	35,93	52,50	-16,57	10,21	-2,91
1.401,25	2,50	12,26	4,97	3,15	48,35	0,16	9,67	23,71	14,04	23,71	0,70	0,70	12,71	0,00	15,88	49,97	68,38	-18,41	14,04	-1,85
1.401,47	2,19	14,47	7,05	4,72	58,60	0,11	11,72	33,06	21,34	33,06	0,59	0,59	15,81	0,00	19,76	71,31	88,15	-16,84	19,76	1,58
1.401,50	0,31	14,85	7,36	4,94	9,03	0,22	1,81	5,64	3,83	5,64	0,10	0,10	2,66	0,00	3,33	75,14	91,48	-16,33	3,33	0,50
1.401,92	4,19	13,61	6,08	2,46	119,15	0,25	23,83	64,72	40,90	64,72	1,97	1,97	33,75	0,00	42,19	116,04	133,66	-17,62	40,90	-1,29
1.402,00	0,81	13,60	6,18	2,53	22,15	0,18	4,43	10,05	5,62	10,05	0,35	0,35	5,99	0,00	7,48	121,66	141,14	-19,49	5,62	-1,87
1.402,25	2,50	14,04	6,77	3,36	69,11	0,08	13,82	34,15	20,33	34,15	0,65	0,65	19,43	0,00	24,29	141,99	165,43	-23,44	20,33	-3,95
1.402,50	2,50	12,46	5,33	3,35	66,24	0,01	13,25	34,93	21,68	34,93	0,23	0,23	18,16	0,00	22,70	163,67	188,13	-24,46	21,68	-1,01
1.402,61	1,13	11,90	4,82	3,36	27,44	0,00	5,49	14,43	8,94	14,43	0,01	0,01	6,87	0,00	8,58	172,61	196,71	-24,10	8,58	0,36
1.402,75	1,37	12,42	4,33	3,76	33,39	0,00	6,68	17,31	10,64	17,31	0,00	0,00	7,54	0,00	9,42	183,25	206,13	-22,88	9,42	1,21
1.403,00	2,50	11,99	3,76	3,84	61,03	0,00	12,21	31,12	18,92	31,12	0,00	0,00	12,12	0,00	15,15	202,17	221,29	-19,12	15,15	3,76
1.403,25	2,50	11,78	3,59	3,96	59,43	0,00	11,89	30,52	18,63	30,52	0,00	0,00	11,02	0,00	13,77	220,80	235,06	-14,26	13,77	4,86
1.403,31	0,57	7,38	3,60	3,12	10,89	0,00	2,18	6,47	4,29	6,47	0,00	0,00	2,45	0,00	3,06	225,09	238,12	-13,03	3,06	1,23
1.403,50	1,93	7,13	3,60	2,12	28,05	0,00	5,61	18,47	12,86	18,47	0,00	0,00	8,35	0,00	10,43	237,95	248,55	-10,60	10,43	2,43
1.404,00	5,00	7,32	3,60	2,38	72,27	0,00	14,45	44,10	29,65	44,10	0,00	0,00	21,60	0,00	27,00	267,60	275,55	-7,96	27,00	2,65
1.404,50	5,00	6,62	3,60	1,61	69,71	0,04	13,94	41,55	27,61	41,55	0,20	0,20	21,60	0,00	27,00	295,20	302,55	-7,35	27,00	0,61
1.405,00	5,00	6,28	3,13	1,44	64,50	0,10	12,90	35,43	22,52	35,43	0,70	0,70	20,18	0,00	25,22	317,73	327,77	-10,04	22,52	-2,69
1.405,50	5,00	5,67	2,61	1,51	59,74	0,02	11,95	31,96	20,01	31,96	0,60	0,60	17,21	0,00	21,51	337,74	349,28	-11,54	20,01	-1,50

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.406,00	5,00	5,69	2,10	1,82	56,81	0,00	11,36	30,77	19,41	30,77	0,10	0,10	14,12	0,00	17,65	357,15	366,93	-9,79	17,65	1,76
1.406,50	5,00	4,80	1,58	1,23	52,46	0,09	10,49	26,28	15,79	26,28	0,45	0,45	11,03	0,00	13,79	372,94	380,73	-7,79	13,79	2,00
1.407,00	5,00	4,53	1,07	1,68	46,68	0,00	9,34	22,50	13,16	22,50	0,45	0,45	7,95	0,00	9,94	386,10	390,66	-4,56	9,94	3,23
1.407,50	5,00	3,97	0,55	1,73	42,51	0,00	8,50	21,91	13,41	21,91	0,00	0,00	4,86	0,00	6,08	399,52	396,74	2,77	6,08	7,33
1.408,00	5,00	3,47	0,04	1,73	37,19	0,00	7,44	19,08	11,64	19,08	0,00	0,00	1,78	0,00	2,22	411,15	398,96	12,19	2,22	9,42
1.408,04	0,38	3,47	0,04	0,00	2,64	0,00	0,53	0,68	0,15	0,68	0,00	0,00	0,02	0,00	0,02	411,30	398,98	12,32	0,02	0,13

1.4.18 Agulha de acesso 1700

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.700,00		3,51	0,00																	
1.700,50	5,00	3,77	0,51	1,39	36,41	0,09	7,28	8,49	1,21	8,49	0,45	0,45	1,54	0,00	1,92	1,21	1,92	-0,72	1,21	-0,72
1.701,00	5,00	4,76	1,03	1,09	42,62	0,32	8,52	17,02	8,50	17,02	2,05	2,05	4,62	0,00	5,78	9,70	7,70	2,00	5,78	2,72
1.701,50	5,00	4,75	1,54	1,17	47,56	0,09	9,51	19,01	9,50	19,01	2,05	2,05	7,71	0,00	9,63	19,20	17,33	1,87	9,50	-0,14
1.702,00	5,00	5,12	2,06	1,27	49,38	0,03	9,88	22,99	13,12	22,99	0,60	0,60	10,79	0,00	13,49	32,32	30,83	1,49	13,12	-0,37
1.702,50	5,00	5,62	2,57	0,96	53,72	0,12	10,74	25,03	14,29	25,03	0,75	0,75	13,88	0,00	17,35	46,60	48,18	-1,57	14,29	-3,06
1.703,00	5,00	6,55	3,09	1,46	60,86	0,01	12,17	29,07	16,90	29,07	0,65	0,65	16,97	0,00	21,21	63,50	69,39	-5,89	16,90	-4,31
1.703,50	5,00	7,13	3,60	2,03	68,40	0,00	13,68	37,51	23,82	37,51	0,05	0,05	20,06	0,00	25,07	87,32	94,46	-7,13	23,82	-1,24
1.704,00	5,00	7,17	3,60	2,16	71,50	0,00	14,30	42,55	28,25	42,55	0,00	0,00	21,60	0,00	27,00	115,57	121,46	-5,88	27,00	1,25
1.704,50	5,00	7,18	3,60	2,18	71,74	0,00	14,35	43,30	28,95	43,30	0,00	0,00	21,60	0,00	27,00	144,52	148,46	-3,93	27,00	1,95
1.704,81	3,08	7,17	3,60	2,14	44,22	0,00	8,84	26,63	17,78	26,63	0,00	0,00	13,31	0,00	16,64	162,31	165,10	-2,79	16,64	1,14
1.705,00	1,92	7,19	3,60	2,14	27,55	0,00	5,51	16,49	10,98	16,49	0,00	0,00	8,28	0,00	10,36	173,29	175,45	-2,16	10,36	0,63
1.705,50	5,00	7,37	3,60	2,75	72,84	0,00	14,57	46,05	31,48	46,05	0,00	0,00	21,60	0,00	27,00	204,77	202,45	2,32	27,00	4,48
1.706,00	5,00	7,21	3,60	2,44	72,94	0,00	14,59	47,55	32,96	47,55	0,00	0,00	21,60	0,00	27,00	237,73	229,45	8,28	27,00	5,96
1.706,50	5,00	7,41	3,60	2,90	73,13	0,00	14,63	48,30	33,67	48,30	0,00	0,00	21,60	0,00	27,00	271,41	256,45	14,96	27,00	6,67
1.706,77	2,67	7,47	3,60	2,93	39,78	0,00	7,96	27,14	19,18	27,14	0,00	0,00	11,55	0,00	14,44	290,59	270,89	19,70	14,44	4,74
1.707,00	2,33	7,29	3,60	2,60	34,33	0,00	6,87	22,92	16,05	22,92	0,00	0,00	10,05	0,00	12,56	306,64	283,45	23,19	12,56	3,49
1.707,50	5,00	7,35	3,60	2,12	73,21	0,00	14,64	45,20	30,56	45,20	0,00	0,00	21,60	0,00	27,00	337,20	310,45	26,75	27,00	3,56
1.708,00	5,00	7,37	3,60	2,12	73,62	0,00	14,72	42,80	28,08	42,80	0,00	0,00	21,60	0,00	27,00	365,27	337,45	27,82	27,00	1,08
1.708,50	5,00	7,42	3,60	2,29	73,97	0,00	14,79	43,65	28,86	43,65	0,00	0,00	21,60	0,00	27,00	394,13	364,45	29,68	27,00	1,86
1.708,73	2,27	7,39	3,60	2,35	33,55	0,00	6,71	20,30	13,59	20,30	0,00	0,00	9,79	0,00	12,23	407,72	376,68	31,03	12,23	1,36
1.708,73	0,00	7,39	3,60	2,35	0,04	0,00	0,01	0,03	0,02	0,03	0,00	0,00	0,01	0,00	0,02	407,74	376,70	31,04	0,02	0,00
1.709,00	2,73	10,97	3,86	2,75	50,15	0,02	10,03	26,16	16,13	26,16	0,05	0,05	12,23	0,00	15,28	423,87	391,99	31,88	15,28	0,84

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.709,42	4,19	12,28	5,20	3,06	97,38	0,03	19,48	47,11	27,63	47,11	0,21	0,21	22,78	0,00	28,47	451,50	420,46	31,04	27,63	-0,84
1.709,50	0,81	12,68	5,60	3,18	20,27	0,03	4,05	10,33	6,28	10,33	0,05	0,05	5,26	0,00	6,58	457,78	427,04	30,74	6,28	-0,30
1.710,00	5,00	14,57	7,42	3,69	136,27	0,08	27,25	73,42	46,17	73,42	0,55	0,55	39,07	0,00	48,84	503,94	475,88	28,07	46,17	-2,67
1.710,11	1,11	14,32	7,20	3,54	31,99	0,10	6,40	17,72	11,32	17,72	0,20	0,20	9,71	0,00	12,14	515,27	488,02	27,25	11,32	-0,82
1.710,50	3,89	13,45	6,62	3,12	108,09	0,06	21,62	58,21	36,59	58,21	0,62	0,62	32,28	0,00	40,35	551,86	528,38	23,48	36,59	-3,76
1.710,90	4,02	14,07	7,10	2,93	110,51	0,12	22,10	57,36	35,26	57,36	0,72	0,72	33,07	0,00	41,33	587,11	569,71	17,41	35,26	-6,07

1.4.19 Agulha de acesso 1600

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
1.600,00		12,84	5,95																	
1.600,50	5,00	14,13	7,12	1,92	134,84	0,37	26,97	48,80	21,83	48,80	1,85	1,85	39,20	0,00	48,99	21,83	48,99	-27,17	21,83	-27,17
1.601,00	5,00	17,25	9,88	1,25	156,86	0,61	31,37	66,84	35,47	66,84	4,90	4,90	50,99	0,00	63,74	57,29	112,73	-55,44	35,47	-28,27
1.601,46	4,59	14,41	7,10	1,76	145,25	0,55	29,05	60,54	31,49	60,54	5,32	5,32	46,73	0,00	58,42	88,79	171,15	-82,36	31,49	-26,92
1.601,50	0,41	14,32	6,96	1,68	11,84	0,58	2,37	4,89	2,52	4,89	0,47	0,47	3,47	0,00	4,34	91,31	175,49	-84,18	2,52	-1,82
1.601,68	1,78	14,06	6,63	1,52	50,44	0,60	10,09	20,17	10,09	20,17	2,10	2,10	14,49	0,00	18,11	101,40	193,60	-92,20	10,09	-8,02
1.601,75	0,72	13,87	6,44	1,52	20,20	0,60	4,04	7,87	3,83	7,87	0,87	0,87	5,67	0,00	7,09	105,23	200,69	-95,46	3,83	-3,26
1.601,90	1,47	12,91	5,45	1,29	39,26	0,63	7,85	14,58	6,72	14,58	1,80	1,80	10,46	0,00	13,07	111,95	213,76	-101,81	6,72	-6,35
1.601,90	0,00	12,47	4,97	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	111,95	213,76	-101,81	0,00	0,00
1.602,00	1,03	11,71	4,12	1,12	25,00	0,65	5,00	6,80	1,80	6,80	0,67	0,67	5,64	0,00	7,05	113,75	220,81	-107,06	1,80	-5,25
1.602,25	2,50	11,66	4,07	0,81	58,42	0,72	11,68	17,11	5,43	17,11	3,43	3,43	12,29	0,00	15,36	119,17	236,16	-116,99	5,43	-9,93
1.602,27	0,19	11,11	3,68	0,79	4,32	0,73	0,86	1,18	0,32	1,18	0,27	0,27	0,88	0,00	1,10	119,49	237,26	-117,77	0,32	-0,78
1.602,50	2,31	11,11	3,68	0,56	51,35	0,64	10,27	13,32	3,05	13,32	3,17	3,17	10,20	0,00	12,75	122,54	250,01	-127,47	3,05	-9,70
1.602,64	1,41	0,00	0,00	0,00	15,71	0,00	3,14	3,01	0,00	3,14	0,90	4,05	3,12	0,93	5,06	122,54	255,07	-132,53	0,00	-5,06

1.4.20 Marginal show rural 0050

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
0,00		20,19	12,16																	
0,50	5,00	19,74	12,06	8,59	199,63	0,01	39,93	115,61	75,68	115,61	0,05	0,05	72,66	0,00	90,82	75,68	90,82	-15,14	75,68	-15,14
1,00	5,00	15,67	7,69	5,35	177,02	0,00	35,40	128,95	93,54	128,95	0,05	0,05	59,25	0,00	74,06	169,22	164,88	4,34	74,06	19,48
1,50	5,00	14,20	7,00	4,45	149,32	0,03	29,86	93,06	63,19	93,06	0,15	0,15	44,06	0,00	55,07	232,41	219,95	12,47	55,07	8,12
2,00	5,00	19,53	11,96	7,39	168,61	0,05	33,72	116,08	82,35	116,08	0,40	0,40	56,88	0,00	71,10	314,77	291,05	23,72	71,10	11,26
2,50	5,00	19,65	11,96	6,25	195,90	0,18	39,18	139,95	100,77	139,95	1,15	1,15	71,75	0,00	89,69	415,54	380,74	34,81	89,69	11,08
3,00	5,00	20,07	11,96	7,43	198,62	0,00	39,72	140,15	100,43	140,15	0,90	0,90	71,75	0,00	89,69	515,97	470,43	45,54	89,69	10,74
3,50	5,00	15,48	8,28	5,42	177,73	0,01	35,55	124,96	89,42	124,96	0,05	0,05	60,71	0,00	75,89	605,39	546,32	59,07	75,89	13,53
4,00	5,00	15,01	7,11	4,79	152,41	0,00	30,48	97,21	66,73	97,21	0,05	0,05	46,16	0,00	57,71	672,12	604,02	68,10	57,71	9,03
4,50	5,00	14,88	7,00	4,80	149,44	0,00	29,89	90,28	60,39	90,28	0,00	0,00	42,33	0,00	52,91	732,51	656,94	75,58	52,91	7,48
5,00	5,00	15,01	7,00	5,21	149,48	0,00	29,90	92,05	62,15	92,05	0,00	0,00	42,00	0,00	52,50	794,67	709,44	85,23	52,50	9,65
5,50	5,00	15,00	7,00	5,37	150,07	0,00	30,01	94,90	64,89	94,90	0,00	0,00	42,00	0,00	52,50	859,55	761,94	97,62	52,50	12,39
6,00	5,00	15,00	7,00	5,37	150,03	0,00	30,01	95,70	65,69	95,70	0,00	0,00	42,00	0,00	52,50	925,25	814,44	110,81	52,50	13,19
6,50	5,00	14,98	7,00	5,26	149,95	0,00	29,99	95,15	65,16	95,15	0,00	0,00	42,00	0,00	52,50	990,41	866,94	123,47	52,50	12,66
7,00	5,00	15,08	7,00	5,43	150,31	0,00	30,06	95,45	65,39	95,45	0,00	0,00	42,00	0,00	52,50	1.055,80	919,44	136,36	52,50	12,89
7,50	5,00	15,09	7,00	5,26	150,81	0,00	30,16	95,45	65,29	95,45	0,00	0,00	42,00	0,00	52,50	1.121,09	971,94	149,15	52,50	12,79
8,00	5,00	15,23	7,00	5,66	151,60	0,00	30,32	96,60	66,28	96,60	0,00	0,00	42,00	0,00	52,50	1.187,37	1.024,44	162,93	52,50	13,78
8,50	5,00	15,08	7,00	5,15	151,56	0,00	30,31	96,05	65,74	96,05	0,00	0,00	42,00	0,00	52,50	1.253,10	1.076,94	176,17	52,50	13,24
9,00	5,00	14,94	7,00	4,78	150,08	0,00	30,02	91,65	61,63	91,65	0,00	0,00	42,00	0,00	52,50	1.314,74	1.129,44	185,30	52,50	9,13
9,50	5,00	14,46	7,00	4,54	146,97	0,05	29,39	88,60	59,21	88,60	0,25	0,25	42,00	0,00	52,50	1.373,94	1.181,94	192,01	52,50	6,71
10,00	5,00	14,36	7,00	4,27	144,08	0,07	28,82	86,05	57,23	86,05	0,60	0,60	42,00	0,00	52,50	1.431,18	1.234,44	196,74	52,50	4,73
10,50	5,00	14,44	7,00	4,23	144,00	0,10	28,80	84,50	55,70	84,50	0,85	0,85	42,00	0,00	52,50	1.486,88	1.286,94	199,94	52,50	3,20
11,00	5,00	14,63	7,00	3,75	145,35	0,20	29,07	81,90	52,83	81,90	1,50	1,50	42,00	0,00	52,50	1.539,70	1.339,44	200,27	52,50	0,33

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
11,50	5,00	14,75	7,00	4,04	146,89	0,22	29,38	80,95	51,57	80,95	2,10	2,10	42,00	0,00	52,50	1.591,28	1.391,94	199,34	51,57	-0,93
12,00	5,00	14,82	7,00	4,08	147,84	0,23	29,57	82,60	53,03	82,60	2,25	2,25	42,00	0,00	52,50	1.644,31	1.444,44	199,87	52,50	0,53
12,50	5,00	15,22	7,00	5,52	150,21	0,22	30,04	90,00	59,96	90,00	2,25	2,25	42,00	0,00	52,50	1.704,27	1.496,94	207,33	52,50	7,46
13,00	5,00	15,04	7,00	6,06	151,31	0,15	30,26	99,90	69,64	99,90	1,85	1,85	42,00	0,00	52,50	1.773,91	1.549,44	224,47	52,50	17,14
13,50	5,00	14,67	7,00	5,41	148,54	0,08	29,71	99,35	69,64	99,35	1,15	1,15	42,00	0,00	52,50	1.843,55	1.601,94	241,61	52,50	17,14
14,00	5,00	14,65	7,00	5,66	146,60	0,05	29,32	97,35	68,03	97,35	0,65	0,65	42,00	0,00	52,50	1.911,58	1.654,44	257,14	52,50	15,53
14,50	5,00	14,69	7,00	6,36	146,72	0,02	29,34	102,10	72,76	102,10	0,35	0,35	42,00	0,00	52,50	1.984,33	1.706,94	277,40	52,50	20,26
15,00	5,00	14,71	7,00	6,41	147,01	0,02	29,40	105,85	76,45	105,85	0,20	0,20	42,00	0,00	52,50	2.060,78	1.759,44	301,34	52,50	23,95
15,50	5,00	14,67	7,00	5,95	146,90	0,04	29,38	103,80	74,42	103,80	0,30	0,30	42,00	0,00	52,50	2.135,20	1.811,94	323,26	52,50	21,92
16,00	5,00	14,55	7,00	5,75	146,12	0,03	29,22	100,50	71,28	100,50	0,35	0,35	42,00	0,00	52,50	2.206,48	1.864,44	342,04	52,50	18,78
16,50	5,00	14,56	7,00	6,18	145,59	0,02	29,12	101,65	72,53	101,65	0,25	0,25	42,00	0,00	52,50	2.279,01	1.916,94	362,07	52,50	20,03
17,00	5,00	14,52	7,00	5,87	145,45	0,00	29,09	102,25	73,16	102,25	0,10	0,10	42,00	0,00	52,50	2.352,17	1.969,44	382,74	52,50	20,66
17,50	5,00	14,56	7,00	5,55	145,42	0,03	29,08	99,10	70,02	99,10	0,15	0,15	42,00	0,00	52,50	2.422,19	2.021,94	400,25	52,50	17,52
18,00	5,00	14,58	7,00	5,32	145,69	0,06	29,14	96,35	67,21	96,35	0,45	0,45	42,00	0,00	52,50	2.489,40	2.074,44	414,96	52,50	14,71
18,50	5,00	14,48	7,00	4,89	145,27	0,04	29,05	93,05	64,00	93,05	0,50	0,50	42,00	0,00	52,50	2.553,39	2.126,94	426,46	52,50	11,50
19,00	5,00	14,36	7,00	4,85	144,19	0,02	28,84	90,70	61,86	90,70	0,30	0,30	42,00	0,00	52,50	2.615,26	2.179,44	435,82	52,50	9,36
19,50	5,00	14,27	7,00	4,90	143,16	0,01	28,63	90,75	62,12	90,75	0,15	0,15	42,00	0,00	52,50	2.677,37	2.231,94	445,44	52,50	9,62
20,00	5,00	14,20	7,00	4,66	142,34	0,01	28,47	89,80	61,33	89,80	0,10	0,10	42,00	0,00	52,50	2.738,71	2.284,44	454,27	52,50	8,83
20,50	5,00	14,16	7,00	4,35	141,77	0,02	28,35	87,05	58,70	87,05	0,15	0,15	42,00	0,00	52,50	2.797,40	2.336,94	460,47	52,50	6,20
21,00	5,00	14,16	7,00	4,14	141,60	0,04	28,32	84,45	56,13	84,45	0,30	0,30	42,00	0,00	52,50	2.853,53	2.389,44	464,10	52,50	3,63
21,50	5,00	14,19	7,00	4,02	141,78	0,06	28,36	82,80	54,44	82,80	0,50	0,50	42,00	0,00	52,50	2.907,98	2.441,94	466,04	52,50	1,94
22,00	5,00	14,29	7,00	4,09	142,42	0,08	28,48	82,55	54,07	82,55	0,70	0,70	42,00	0,00	52,50	2.962,04	2.494,44	467,61	52,50	1,57
22,50	5,00	14,35	7,00	4,10	143,21	0,09	28,64	82,95	54,31	82,95	0,85	0,85	42,00	0,00	52,50	3.016,35	2.546,94	469,41	52,50	1,81
23,00	5,00	14,46	7,00	3,97	144,08	0,14	28,82	82,35	53,53	82,35	1,15	1,15	42,00	0,00	52,50	3.069,88	2.599,44	470,45	52,50	1,03
23,50	5,00	14,53	7,00	3,70	144,95	0,17	28,99	80,35	51,36	80,35	1,55	1,55	42,00	0,00	52,50	3.121,25	2.651,94	469,31	51,36	-1,14

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
24,00	5,00	14,59	7,00	3,56	145,57	0,21	29,11	78,30	49,19	78,30	1,90	1,90	42,00	0,00	52,50	3.170,43	2.704,44	465,99	49,19	-3,31
24,50	5,00	14,65	7,00	3,41	146,21	0,25	29,24	76,85	47,61	76,85	2,30	2,30	42,00	0,00	52,50	3.218,04	2.756,94	461,10	47,61	-4,89
25,00	5,00	14,70	7,00	2,96	146,79	0,31	29,36	73,85	44,49	73,85	2,80	2,80	42,00	0,00	52,50	3.262,53	2.809,44	453,09	44,49	-8,01
25,50	5,00	14,80	7,00	2,79	147,50	0,35	29,50	70,75	41,25	70,75	3,30	3,30	42,00	0,00	52,50	3.303,78	2.861,94	441,84	41,25	-11,25
26,00	5,00	15,02	7,00	3,87	149,10	0,33	29,82	75,30	45,48	75,30	3,40	3,40	42,00	0,00	52,50	3.349,26	2.914,44	434,82	45,48	-7,02
26,50	5,00	19,26	10,32	9,35	171,41	0,32	34,28	118,06	83,78	118,06	3,25	3,25	51,96	0,00	64,95	3.433,04	2.979,39	453,65	64,95	18,83
27,00	5,00	15,18	7,00	4,60	172,18	0,29	34,44	121,71	87,28	121,71	3,05	3,05	51,96	0,00	64,95	3.520,32	3.044,34	475,97	64,95	22,32
27,50	5,00	15,67	7,00	6,76	154,26	0,27	30,85	98,80	67,95	98,80	2,80	2,80	42,00	0,00	52,50	3.588,27	3.096,84	491,42	52,50	15,45
28,00	5,00	15,26	7,00	5,23	154,66	0,21	30,93	101,95	71,02	101,95	2,40	2,40	42,00	0,00	52,50	3.659,28	3.149,34	509,94	52,50	18,52
28,50	5,00	14,87	7,00	4,88	150,63	0,15	30,13	92,55	62,42	92,55	1,80	1,80	42,00	0,00	52,50	3.721,71	3.201,84	519,86	52,50	9,92
29,00	5,00	14,58	7,00	4,22	147,23	0,09	29,45	87,50	58,05	87,50	1,20	1,20	42,00	0,00	52,50	3.779,76	3.254,34	525,42	52,50	5,55
29,50	5,00	14,27	7,00	4,40	144,27	0,02	28,85	85,10	56,25	85,10	0,55	0,55	42,00	0,00	52,50	3.836,01	3.306,84	529,16	52,50	3,75
30,00	5,00	15,21	7,00	5,59	147,41	0,00	29,48	91,95	62,47	91,95	0,10	0,10	42,00	0,00	52,50	3.898,48	3.359,34	539,13	52,50	9,97
30,50	5,00	15,48	7,00	6,78	153,42	0,00	30,68	103,85	73,17	103,85	0,00	0,00	42,00	0,00	52,50	3.971,64	3.411,84	559,80	52,50	20,67
31,00	5,00	17,48	9,05	7,64	164,80	0,00	32,96	120,26	87,30	120,26	0,00	0,00	48,16	0,00	60,20	4.058,94	3.472,05	586,90	60,20	27,10
31,50	5,00	18,29	10,16	6,80	178,88	0,00	35,78	129,84	94,07	129,84	0,00	0,00	57,64	0,00	72,05	4.153,01	3.544,10	608,91	72,05	22,01
32,00	5,00	14,83	7,00	4,13	165,61	0,00	33,12	106,13	73,01	106,13	0,00	0,00	51,48	0,00	64,35	4.226,02	3.608,45	617,57	64,35	8,66
32,50	5,00	14,01	7,00	3,39	144,20	0,04	28,84	79,60	50,76	79,60	0,20	0,20	42,00	0,00	52,50	4.276,78	3.660,95	615,83	50,76	-1,74
33,00	5,00	14,14	7,00	2,38	140,76	0,21	28,15	70,85	42,70	70,85	1,25	1,25	42,00	0,00	52,50	4.319,47	3.713,45	606,03	42,70	-9,80
33,50	5,00	14,07	7,00	1,38	141,07	0,42	28,21	60,80	32,59	60,80	3,15	3,15	42,00	0,00	52,50	4.352,06	3.765,95	586,11	32,59	-19,91
34,00	5,00	14,18	7,00	0,73	141,24	0,52	28,25	52,55	24,30	52,55	4,70	4,70	42,00	0,00	52,50	4.376,36	3.818,45	557,91	24,30	-28,20
34,50	5,00	14,16	7,00	0,79	141,67	0,51	28,33	49,60	21,27	49,60	5,15	5,15	42,00	0,00	52,50	4.397,63	3.870,95	526,68	21,27	-31,23
35,00	5,00	14,13	7,00	1,16	141,41	0,46	28,28	51,75	23,47	51,75	4,85	4,85	42,00	0,00	52,50	4.421,09	3.923,45	497,65	23,47	-29,03
35,50	5,00	13,54	7,00	1,54	138,34	0,22	27,67	55,50	27,83	55,50	3,40	3,40	42,00	0,00	52,50	4.448,93	3.975,95	472,98	27,83	-24,67
36,00	5,00	13,84	7,00	2,23	136,91	0,11	27,38	60,85	33,47	60,85	1,65	1,65	42,00	0,00	52,50	4.482,40	4.028,45	453,95	33,47	-19,03

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
36,50	5,00	13,97	7,00	2,69	139,05	0,12	27,81	66,60	38,79	66,60	1,15	1,15	42,00	0,00	52,50	4.521,19	4.080,95	440,24	38,79	-13,71
37,00	5,00	13,88	7,00	3,19	139,25	0,07	27,85	71,40	43,55	71,40	0,95	0,95	42,00	0,00	52,50	4.564,74	4.133,45	431,29	43,55	-8,95
37,50	5,00	14,77	7,00	4,02	143,24	0,00	28,65	78,05	49,40	78,05	0,35	0,35	42,00	0,00	52,50	4.614,14	4.185,95	428,19	49,40	-3,10
38,00	5,00	15,12	7,00	4,67	149,44	0,00	29,89	85,45	55,56	85,45	0,00	0,00	42,00	0,00	52,50	4.669,70	4.238,45	431,25	52,50	3,06
38,50	5,00	15,12	7,00	4,83	151,20	0,00	30,24	89,50	59,26	89,50	0,00	0,00	42,00	0,00	52,50	4.728,96	4.290,95	438,01	52,50	6,76
39,00	5,00	15,08	7,00	4,92	150,99	0,00	30,20	90,75	60,55	90,75	0,00	0,00	42,00	0,00	52,50	4.789,51	4.343,45	446,06	52,50	8,05
39,50	5,00	14,95	7,00	4,57	150,12	0,00	30,02	89,45	59,43	89,45	0,00	0,00	42,00	0,00	52,50	4.848,94	4.395,95	452,99	52,50	6,93
40,00	5,00	14,71	7,00	4,04	148,29	0,00	29,66	85,05	55,39	85,05	0,00	0,00	42,00	0,00	52,50	4.904,33	4.448,45	455,88	52,50	2,89
40,50	5,00	14,72	7,00	4,24	147,15	0,00	29,43	83,40	53,97	83,40	0,00	0,00	42,00	0,00	52,50	4.958,30	4.500,95	457,35	52,50	1,47
41,00	5,00	14,66	7,00	4,36	146,89	0,00	29,38	85,00	55,62	85,00	0,00	0,00	42,00	0,00	52,50	5.013,92	4.553,45	460,47	52,50	3,12
41,50	5,00	14,77	7,00	4,68	147,15	0,00	29,43	87,20	57,77	87,20	0,00	0,00	42,00	0,00	52,50	5.071,69	4.605,95	465,74	52,50	5,27
42,00	5,00	14,92	7,00	4,93	148,47	0,00	29,69	90,05	60,36	90,05	0,00	0,00	42,00	0,00	52,50	5.132,05	4.658,45	473,60	52,50	7,86
42,50	5,00	15,07	7,00	5,11	149,95	0,00	29,99	92,20	62,21	92,20	0,00	0,00	42,00	0,00	52,50	5.194,26	4.710,95	483,31	52,50	9,71
43,00	5,00	14,03	7,00	4,13	145,49	0,01	29,10	88,20	59,10	88,20	0,05	0,05	42,00	0,00	52,50	5.253,36	4.763,45	489,91	52,50	6,60
43,08	0,81	13,98	7,00	3,90	22,65	0,02	4,53	13,28	8,75	13,28	0,02	0,02	6,79	0,00	8,49	5.262,11	4.771,94	490,17	8,49	0,26
43,25	1,69	13,88	7,00	3,31	47,14	0,03	9,43	26,40	16,98	26,40	0,08	0,08	14,21	0,00	17,76	5.279,09	4.789,70	489,39	16,98	-0,78
43,50	2,50	13,83	7,00	2,87	69,29	0,04	13,86	36,45	22,59	36,45	0,18	0,18	21,00	0,00	26,25	5.301,68	4.815,95	485,73	22,59	-3,66
43,75	2,50	13,45	7,00	2,39	68,21	0,09	13,64	34,15	20,51	34,15	0,33	0,33	21,00	0,00	26,25	5.322,19	4.842,20	479,99	20,51	-5,74
44,00	2,50	13,53	7,00	2,24	67,44	0,13	13,49	32,58	19,09	32,58	0,55	0,55	21,00	0,00	26,25	5.341,28	4.868,45	472,83	19,09	-7,16
44,25	2,50	13,57	7,00	2,22	67,75	0,16	13,55	32,15	18,60	32,15	0,73	0,73	21,00	0,00	26,25	5.359,88	4.894,70	465,18	18,60	-7,65
44,50	2,50	13,58	7,00	2,29	67,89	0,15	13,58	32,28	18,70	32,28	0,78	0,78	21,00	0,00	26,25	5.378,57	4.920,95	457,63	18,70	-7,55
44,75	2,50	14,23	7,00	4,57	69,52	0,02	13,90	38,15	24,25	38,15	0,43	0,43	21,00	0,00	26,25	5.402,82	4.947,20	455,62	24,25	-2,00
45,00	2,50	15,03	7,00	4,93	73,15	0,00	14,63	44,75	30,12	44,75	0,05	0,05	21,00	0,00	26,25	5.432,94	4.973,45	459,49	26,25	3,87
45,25	2,50	14,88	7,00	5,01	74,79	0,00	14,96	45,85	30,89	45,85	0,00	0,00	21,00	0,00	26,25	5.463,83	4.999,70	464,13	26,25	4,64
45,50	2,50	14,67	7,00	4,59	73,89	0,00	14,78	45,00	30,22	45,00	0,00	0,00	21,00	0,00	26,25	5.494,05	5.025,95	468,11	26,25	3,97

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
45,75	2,50	14,31	7,00	3,54	72,45	0,07	14,49	41,33	26,84	41,33	0,18	0,18	21,00	0,00	26,25	5.520,89	5.052,20	468,69	26,25	0,59
46,00	2,50	14,65	7,00	4,27	72,38	0,00	14,48	40,53	26,05	40,53	0,18	0,18	21,00	0,00	26,25	5.546,94	5.078,45	468,49	26,05	-0,20
46,25	2,50	14,85	7,00	5,02	73,73	0,00	14,75	44,23	29,48	44,23	0,00	0,00	21,00	0,00	26,25	5.576,42	5.104,70	471,72	26,25	3,23
46,50	2,50	15,06	7,00	5,62	74,78	0,00	14,96	47,60	32,64	47,60	0,00	0,00	21,00	0,00	26,25	5.609,06	5.130,95	478,11	26,25	6,39
46,75	2,50	15,24	7,00	6,04	75,76	0,00	15,15	50,15	35,00	50,15	0,00	0,00	21,00	0,00	26,25	5.644,06	5.157,20	486,86	26,25	8,75
47,00	2,50	15,09	7,00	6,05	75,81	0,00	15,16	51,23	36,06	51,23	0,00	0,00	21,00	0,00	26,25	5.680,12	5.183,45	496,67	26,25	9,81
47,25	2,50	14,45	7,00	4,63	73,84	0,01	14,77	47,70	32,93	47,70	0,03	0,03	21,00	0,00	26,25	5.713,06	5.209,70	503,36	26,25	6,68
47,50	2,50	14,48	7,00	4,74	72,31	0,00	14,46	44,43	29,96	44,43	0,03	0,03	21,00	0,00	26,25	5.743,02	5.235,95	507,07	26,25	3,71
47,75	2,50	14,55	7,00	4,80	72,56	0,03	14,51	44,85	30,34	44,85	0,08	0,08	21,00	0,00	26,25	5.773,36	5.262,20	511,16	26,25	4,09
48,00	2,50	14,61	7,00	4,79	72,90	0,05	14,58	44,98	30,39	44,98	0,20	0,20	21,00	0,00	26,25	5.803,75	5.288,45	515,30	26,25	4,14
48,25	2,50	14,59	7,00	4,77	73,02	0,05	14,60	44,90	30,30	44,90	0,25	0,25	21,00	0,00	26,25	5.834,05	5.314,70	519,35	26,25	4,05
48,45	1,97	14,85	7,00	4,79	57,97	0,00	11,59	35,36	23,77	35,36	0,10	0,10	16,54	0,00	20,67	5.857,82	5.335,37	522,44	20,67	3,09
48,50	0,53	14,86	7,00	4,68	15,77	0,00	3,15	9,49	6,33	9,49	0,00	0,00	4,46	0,00	5,58	5.864,15	5.340,95	523,20	5,58	0,76
48,75	2,50	14,45	7,00	3,90	73,28	0,05	14,66	42,45	27,79	42,45	0,13	0,13	21,00	0,00	26,25	5.891,94	5.367,20	524,74	26,25	1,54
49,00	2,50	14,43	7,00	3,43	72,22	0,08	14,44	39,33	24,88	39,33	0,33	0,33	21,00	0,00	26,25	5.916,82	5.393,45	523,38	24,88	-1,37
49,25	2,50	14,17	7,01	2,90	71,50	0,08	14,30	36,84	22,54	36,84	0,40	0,40	21,02	0,00	26,27	5.939,36	5.419,72	519,65	22,54	-3,73
49,50	2,50	12,69	9,12	4,00	67,15	0,02	13,43	41,44	28,01	41,44	0,25	0,25	24,19	0,00	30,23	5.967,37	5.449,95	517,42	28,01	-2,23
49,75	2,50	19,21	11,39	5,55	79,76	0,00	15,95	54,63	38,67	54,63	0,05	0,05	30,75	0,00	38,44	6.006,05	5.488,39	517,65	38,44	0,23
50,00	2,50	18,09	11,02	5,19	93,26	0,03	18,65	60,45	41,80	60,45	0,08	0,08	33,60	0,00	42,00	6.047,85	5.530,39	517,45	41,80	-0,20
50,25	2,50	17,79	10,66	5,11	89,69	0,05	17,94	58,26	40,32	58,26	0,20	0,20	32,51	0,00	40,64	6.088,16	5.571,03	517,14	40,32	-0,32
50,50	2,50	15,09	8,02	3,82	82,20	0,07	16,44	50,34	33,90	50,34	0,30	0,30	28,02	0,00	35,02	6.122,07	5.606,05	516,02	33,90	-1,12
50,75	2,50	14,04	7,00	3,69	72,84	0,05	14,57	41,31	26,74	41,31	0,30	0,30	22,53	0,00	28,16	6.148,80	5.634,21	514,59	26,74	-1,43
51,00	2,50	14,07	7,00	4,03	70,29	0,03	14,06	40,30	26,24	40,30	0,20	0,20	21,00	0,00	26,25	6.175,05	5.660,46	514,58	26,24	-0,01
51,25	2,50	14,87	7,00	4,51	72,35	0,00	14,47	42,35	27,88	42,35	0,08	0,08	21,00	0,00	26,25	6.202,93	5.686,71	516,21	26,25	1,63
51,50	2,50	14,93	7,00	4,77	74,50	0,00	14,90	44,20	29,30	44,20	0,00	0,00	21,00	0,00	26,25	6.232,23	5.712,96	519,26	26,25	3,05

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
51,75	2,50	14,93	7,00	5,01	74,64	0,00	14,93	45,45	30,52	45,45	0,00	0,00	21,00	0,00	26,25	6.262,75	5.739,21	523,53	26,25	4,27
52,00	2,50	14,95	7,00	5,26	74,69	0,00	14,94	46,68	31,74	46,68	0,00	0,00	21,00	0,00	26,25	6.294,49	5.765,46	529,02	26,25	5,49
52,25	2,50	15,00	7,00	5,50	74,87	0,00	14,97	47,90	32,93	47,90	0,00	0,00	21,00	0,00	26,25	6.327,41	5.791,71	535,70	26,25	6,68
52,50	2,50	15,06	7,00	5,74	75,16	0,00	15,03	49,10	34,07	49,10	0,00	0,00	21,00	0,00	26,25	6.361,48	5.817,96	543,52	26,25	7,82
52,75	2,50	15,10	7,00	5,87	75,42	0,00	15,08	50,03	34,94	50,03	0,00	0,00	21,00	0,00	26,25	6.396,42	5.844,21	552,21	26,25	8,69
53,00	2,50	15,19	7,00	5,85	75,74	0,00	15,15	50,30	35,15	50,30	0,00	0,00	21,00	0,00	26,25	6.431,57	5.870,46	561,11	26,25	8,90
53,25	2,50	15,22	7,00	5,67	76,01	0,00	15,20	49,80	34,60	49,80	0,00	0,00	21,00	0,00	26,25	6.466,17	5.896,71	569,46	26,25	8,35
53,50	2,50	15,18	7,00	5,57	75,98	0,00	15,20	49,10	33,90	49,10	0,00	0,00	21,00	0,00	26,25	6.500,08	5.922,96	577,11	26,25	7,65
53,75	2,50	15,19	7,00	5,57	75,93	0,00	15,19	48,85	33,66	48,85	0,00	0,00	21,00	0,00	26,25	6.533,74	5.949,21	584,53	26,25	7,41
53,81	0,63	15,19	7,00	5,61	19,13	0,00	3,83	12,33	8,50	12,33	0,00	0,00	5,29	0,00	6,61	6.542,24	5.955,82	586,42	6,61	1,89
54,00	1,87	15,18	7,00	5,55	56,80	0,00	11,36	36,59	25,23	36,59	0,00	0,00	15,71	0,00	19,64	6.567,47	5.975,46	592,00	19,64	5,59
54,50	5,00	15,06	7,00	5,14	151,18	0,00	30,24	95,45	65,21	95,45	0,00	0,00	42,00	0,00	52,50	6.632,68	6.027,96	604,72	52,50	12,71
55,00	5,00	14,94	7,00	4,70	149,99	0,00	30,00	91,20	61,20	91,20	0,00	0,00	42,00	0,00	52,50	6.693,88	6.080,46	613,42	52,50	8,70
55,50	5,00	14,92	7,00	4,28	149,30	0,00	29,86	86,90	57,04	86,90	0,00	0,00	42,00	0,00	52,50	6.750,92	6.132,96	617,96	52,50	4,54
55,86	3,56	12,86	7,00	3,57	98,85	0,01	19,77	57,83	38,06	57,83	0,04	0,04	29,89	0,00	37,36	6.788,98	6.170,33	618,65	37,36	0,69
56,00	1,44	14,66	7,11	3,27	39,67	0,12	7,93	22,06	14,12	22,06	0,19	0,19	12,20	0,00	15,25	6.803,10	6.185,58	617,53	14,12	-1,12

1.4.21 Marginal esquerda 6000

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.002,50		11,63	3,83																	
6.002,75	2,50	12,00	4,02	0,00	59,06	2,33	11,81	5,95	0,00	11,81	5,83	17,64	11,78	5,86	22,05	0,00	22,05	-22,05	0,00	-22,05
6.003,00	2,50	12,54	4,32	0,00	61,34	2,87	12,27	0,00	0,00	12,27	13,00	25,27	12,50	12,77	31,58	0,00	53,63	-53,63	0,00	-31,58
6.003,10	1,02	12,84	4,47	0,00	25,97	2,88	5,19	0,00	0,00	5,19	5,89	11,08	5,39	5,68	13,85	0,00	67,48	-67,48	0,00	-13,85
6.003,25	1,48	13,07	4,73	0,00	38,25	2,60	7,65	0,06	0,00	7,65	8,09	15,74	8,15	7,59	19,68	0,00	87,16	-87,16	0,00	-19,68
6.003,50	2,50	13,54	5,25	0,02	66,53	3,34	13,31	15,02	1,72	15,02	14,85	14,85	14,97	0,00	18,71	1,72	105,87	-104,15	1,72	-17,00
6.003,75	2,50	14,21	5,90	0,00	69,38	4,78	13,88	0,05	0,00	13,88	20,30	34,18	16,73	17,45	42,72	1,72	148,59	-146,87	0,00	-42,72
6.004,00	2,50	14,75	6,00	0,00	72,40	6,16	14,48	0,00	0,00	14,48	27,35	41,83	17,85	23,98	52,29	1,72	200,88	-199,16	0,00	-52,29
6.004,04	0,42	14,78	6,00	0,00	12,29	6,23	2,46	0,00	0,00	2,46	5,15	7,61	3,00	4,62	9,51	1,72	210,39	-208,68	0,00	-9,51
6.004,50	4,58	15,25	6,00	0,00	137,65	7,26	27,53	0,00	0,00	27,53	61,84	89,37	33,00	56,36	111,71	1,72	322,10	-320,39	0,00	-111,71
6.005,00	5,00	15,77	6,00	0,00	155,08	8,74	31,02	0,00	0,00	31,02	80,00	111,02	36,00	75,02	138,77	1,72	460,87	-459,16	0,00	-138,77
6.005,50	5,00	15,85	6,00	0,00	158,10	8,42	31,62	0,00	0,00	31,62	85,80	117,42	36,00	81,42	146,77	1,72	607,65	-605,93	0,00	-146,77
6.006,00	5,00	16,27	6,00	0,00	160,59	9,98	32,12	0,00	0,00	32,12	92,00	124,12	36,00	88,12	155,15	1,72	762,79	-761,08	0,00	-155,15
6.006,50	5,00	17,21	6,00	0,00	167,37	12,84	33,47	0,00	0,00	33,47	114,10	147,57	36,00	111,57	184,47	1,72	947,26	-945,55	0,00	-184,47
6.006,66	1,63	17,23	6,00	0,00	56,05	12,18	11,21	0,00	0,00	11,21	40,72	51,93	11,72	40,21	64,91	1,72	1.012,17	-1.010,46	0,00	-64,91
6.006,75	0,87	17,16	6,00	0,00	30,00	12,09	6,00	0,00	0,00	6,00	21,18	27,18	6,28	20,89	33,97	1,72	1.046,14	-1.044,43	0,00	-33,97
6.007,00	2,50	17,17	6,00	0,00	85,80	12,73	17,16	0,00	0,00	17,16	62,05	79,21	18,00	61,21	99,01	1,72	1.145,16	-1.143,44	0,00	-99,01
6.007,25	2,50	17,51	6,00	0,00	86,69	13,84	17,34	0,00	0,00	17,34	66,43	83,76	18,00	65,76	104,70	1,72	1.249,86	-1.248,15	0,00	-104,70
6.007,48	2,31	17,79	6,00	0,00	81,38	15,48	16,28	0,00	0,00	16,28	67,60	83,87	16,60	67,27	104,84	1,72	1.354,70	-1.352,99	0,00	-104,84
6.007,50	0,19	17,83	6,00	0,00	6,93	15,65	1,39	0,00	0,00	1,39	6,05	7,44	1,40	6,04	9,30	1,72	1.364,00	-1.362,29	0,00	-9,30
6.007,75	2,50	18,52	6,00	0,00	90,89	17,11	18,18	0,00	0,00	18,18	81,90	100,08	18,00	82,08	125,10	1,72	1.489,10	-1.487,38	0,00	-125,10
6.008,00	2,50	18,64	6,00	0,00	92,91	16,77	18,58	0,00	0,00	18,58	84,70	103,28	18,00	85,28	129,10	1,72	1.618,20	-1.616,49	0,00	-129,10
6.008,25	2,50	18,67	6,00	0,00	93,28	16,24	18,66	0,00	0,00	18,66	82,53	101,18	18,00	83,18	126,48	1,72	1.744,68	-1.742,96	0,00	-126,48

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.008,30	0,48	18,80	6,00	0,00	18,14	16,02	3,63	0,00	0,00	3,63	15,61	19,24	3,48	15,76	24,05	1,72	1.768,73	-1.767,01	0,00	-24,05
6.008,38	0,79	18,91	6,00	0,00	29,71	16,19	5,94	0,00	0,00	5,94	25,38	31,32	5,67	25,65	39,16	1,72	1.807,89	-1.806,17	0,00	-39,16
6.008,48	0,99	19,12	6,06	0,00	37,46	18,22	7,49	0,00	0,00	7,49	33,89	41,39	7,13	34,26	51,73	1,72	1.859,62	-1.857,90	0,00	-51,73
6.008,50	0,24	19,16	6,10	0,00	9,30	18,71	1,86	0,00	0,00	1,86	8,97	10,83	1,77	9,06	13,54	1,72	1.873,16	-1.871,44	0,00	-13,54
6.008,57	0,74	19,33	6,25	0,00	28,56	19,95	5,71	0,00	0,00	5,71	28,69	34,40	5,50	28,90	43,00	1,72	1.916,16	-1.914,44	0,00	-43,00
6.008,76	1,81	22,00	9,00	0,00	74,81	23,99	14,96	0,00	0,00	14,96	79,55	94,52	16,56	77,95	118,15	1,72	2.034,30	-2.032,59	0,00	-118,15
6.009,00	2,45	22,28	9,00	0,00	108,37	24,72	21,67	0,00	0,00	21,67	119,22	140,89	26,43	114,46	176,11	1,72	2.210,42	-2.208,70	0,00	-176,11
6.009,25	2,50	22,58	9,00	0,00	112,14	25,14	22,43	0,00	0,00	22,43	124,65	147,08	27,00	120,08	183,85	1,72	2.394,26	-2.392,55	0,00	-183,85
6.009,31	0,57	22,59	9,00	0,00	25,77	25,12	5,15	0,00	0,00	5,15	28,67	33,83	6,16	27,66	42,28	1,72	2.436,55	-2.434,83	0,00	-42,28
6.009,50	1,93	22,56	9,00	0,00	87,10	25,01	17,42	0,00	0,00	17,42	96,73	114,15	20,84	93,31	142,68	1,72	2.579,23	-2.577,51	0,00	-142,68
6.009,75	2,50	22,62	8,89	0,00	112,93	25,52	22,59	0,00	0,00	22,59	126,33	148,91	26,84	122,07	186,14	1,72	2.765,37	-2.763,65	0,00	-186,14
6.009,86	1,09	21,91	8,16	0,00	48,49	24,71	9,70	0,00	0,00	9,70	54,70	64,40	11,14	53,26	80,50	1,72	2.845,87	-2.844,15	0,00	-80,50
6.010,00	1,41	21,82	8,00	0,00	61,70	24,67	12,34	0,00	0,00	12,34	69,68	82,02	13,68	68,33	102,52	1,72	2.948,39	-2.946,67	0,00	-102,52
6.010,50	5,00	21,83	8,00	0,00	218,23	24,99	43,65	0,00	0,00	43,65	248,30	291,95	48,00	243,95	364,93	1,72	3.313,32	-3.311,60	0,00	-364,93
6.011,00	5,00	22,14	8,00	0,00	219,83	26,44	43,97	0,00	0,00	43,97	257,15	301,12	48,00	253,12	376,39	1,72	3.689,71	-3.688,00	0,00	-376,39
6.011,33	3,35	22,48	8,00	0,00	149,29	28,56	29,86	0,00	0,00	29,86	184,03	213,89	32,12	181,77	267,36	1,72	3.957,07	-3.955,36	0,00	-267,36
6.011,50	1,65	22,66	7,94	0,00	74,66	29,69	14,93	0,00	0,00	14,93	96,35	111,28	15,82	95,46	139,10	1,72	4.096,17	-4.094,45	0,00	-139,10
6.011,75	2,50	22,55	7,66	0,00	113,01	30,17	22,60	0,00	0,00	22,60	149,65	172,25	23,40	148,85	215,32	1,72	4.311,48	-4.309,77	0,00	-215,32
6.012,00	2,50	22,36	7,33	0,00	112,27	30,05	22,45	0,00	0,00	22,45	150,55	173,00	22,49	150,51	216,26	1,72	4.527,74	-4.526,02	0,00	-216,26
6.012,03	0,29	22,33	7,29	0,00	13,01	30,02	2,60	0,00	0,00	2,60	17,48	20,08	2,55	17,53	25,10	1,72	4.552,84	-4.551,13	0,00	-25,10
6.012,25	2,21	22,10	6,98	0,00	98,14	30,20	19,63	0,00	0,00	19,63	133,03	152,65	18,92	133,74	190,82	1,72	4.743,66	-4.741,94	0,00	-190,82
6.012,50	2,50	21,83	6,60	0,00	109,83	30,92	21,97	0,00	0,00	21,97	152,80	174,77	20,37	154,40	218,46	1,72	4.962,12	-4.960,40	0,00	-218,46
6.012,72	2,24	21,58	6,23	0,00	97,07	31,43	19,41	0,00	0,00	19,41	139,41	158,83	17,22	141,61	198,54	1,72	5.160,65	-5.158,94	0,00	-198,54
6.013,00	2,76	21,41	5,93	0,00	118,83	30,62	23,77	0,00	0,00	23,77	171,51	195,27	20,17	175,10	244,09	1,72	5.404,74	-5.403,03	0,00	-244,09
6.013,46	4,55	23,71	5,90	0,00	205,51	39,71	41,10	0,00	0,00	41,10	320,28	361,39	32,32	329,07	451,73	1,72	5.856,47	-5.854,76	0,00	-451,73

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.013,50	0,45	23,80	5,90	0,00	21,19	41,66	4,24	0,00	0,00	4,24	36,29	40,53	3,16	37,37	50,66	1,72	5.907,13	-5.905,42	0,00	-50,66
6.013,75	2,50	26,00	12,97	0,00	124,49	47,93	24,90	0,00	0,00	24,90	223,98	248,87	28,31	220,56	311,09	1,72	6.218,22	-6.216,51	0,00	-311,09
6.014,00	2,50	24,14	11,40	0,00	125,35	34,77	25,07	0,00	0,00	25,07	206,75	231,82	36,55	195,27	289,77	1,72	6.508,00	-6.506,28	0,00	-289,77
6.014,20	2,03	23,04	10,47	0,00	95,81	29,91	19,16	0,00	0,00	19,16	131,37	150,53	26,64	123,88	188,16	1,72	6.696,16	-6.694,44	0,00	-188,16
6.014,25	0,47	22,80	10,29	0,00	21,50	29,36	4,30	0,00	0,00	4,30	27,80	32,10	5,84	26,25	40,12	1,72	6.736,28	-6.734,56	0,00	-40,12
6.014,50	2,50	21,54	9,55	0,00	110,85	24,85	22,17	0,00	0,00	22,17	135,53	157,69	29,76	127,94	197,12	1,72	6.933,40	-6.931,68	0,00	-197,12
6.014,75	2,50	21,15	9,12	0,00	106,73	24,95	21,35	0,00	0,00	21,35	124,50	145,85	28,00	117,85	182,31	1,72	7.115,70	-7.113,99	0,00	-182,31
6.014,95	2,01	21,21	9,01	0,00	85,06	25,75	17,01	0,00	0,00	17,01	101,81	118,82	21,84	96,98	148,52	1,72	7.264,23	-7.262,51	0,00	-148,52
6.015,00	0,49	21,24	9,00	0,00	20,88	25,97	4,18	0,00	0,00	4,18	25,45	29,62	5,32	24,31	37,03	1,72	7.301,26	-7.299,54	0,00	-37,03
6.015,50	5,00	21,08	9,00	0,00	211,62	25,18	42,32	0,00	0,00	42,32	255,75	298,07	54,01	244,06	372,59	1,72	7.673,85	-7.672,13	0,00	-372,59
6.016,00	5,00	20,62	9,00	0,00	208,53	22,58	41,71	0,00	0,00	41,71	238,80	280,51	54,00	226,51	350,63	1,72	8.024,48	-8.022,77	0,00	-350,63
6.016,50	5,00	20,62	9,00	0,00	206,20	22,79	41,24	0,00	0,00	41,24	226,85	268,09	54,00	214,09	335,11	1,72	8.359,59	-8.357,88	0,00	-335,11
6.017,00	5,00	20,49	9,00	0,00	205,53	23,99	41,11	0,00	0,00	41,11	233,90	275,01	54,00	221,01	343,76	1,72	8.703,35	-8.701,64	0,00	-343,76
6.017,50	5,00	20,23	9,00	0,00	203,60	23,50	40,72	0,00	0,00	40,72	237,45	278,17	54,00	224,17	347,71	1,72	9.051,06	-9.049,35	0,00	-347,71
6.018,00	5,00	19,55	9,00	0,00	198,91	20,66	39,78	0,00	0,00	39,78	220,80	260,58	54,00	206,58	325,73	1,72	9.376,79	-9.375,08	0,00	-325,73
6.018,50	5,00	19,53	9,00	0,00	195,39	21,12	39,08	0,00	0,00	39,08	208,90	247,98	54,00	193,98	309,97	1,72	9.686,76	-9.685,05	0,00	-309,97
6.019,00	5,00	18,48	9,00	0,00	190,07	15,23	38,01	0,00	0,00	38,01	181,75	219,76	54,00	165,76	274,70	1,72	9.961,47	-9.959,75	0,00	-274,70
6.019,50	5,00	17,66	9,00	0,02	180,74	6,69	36,15	54,10	17,95	54,10	109,60	109,60	54,00	55,60	137,00	19,67	10.098,47	-10.078,80	17,95	-119,05
6.020,00	5,00	18,10	9,00	0,79	178,81	9,96	35,76	58,05	22,29	58,05	83,25	83,25	54,00	29,25	104,06	41,95	10.202,53	-10.160,58	22,29	-81,78
6.020,50	5,00	16,11	9,00	2,73	171,04	0,43	34,21	71,60	37,39	71,60	51,95	51,95	54,00	0,00	67,50	79,35	10.270,03	-10.190,69	37,39	-30,11
6.021,00	5,00	16,44	9,00	3,27	162,72	0,61	32,54	84,00	51,46	84,00	5,20	5,20	54,00	0,00	67,50	130,80	10.337,53	-10.206,73	51,46	-16,04
6.021,50	5,00	16,81	9,00	2,00	166,22	0,56	33,24	80,35	47,11	80,35	5,85	5,85	54,00	0,00	67,50	177,91	10.405,03	-10.227,12	47,11	-20,39
6.022,00	5,00	16,43	9,00	3,39	166,18	0,13	33,24	80,95	47,71	80,95	3,45	3,45	54,00	0,00	67,50	225,62	10.472,53	-10.246,91	47,71	-19,79
6.022,50	5,00	16,22	9,00	0,00	163,26	3,95	32,65	50,55	17,90	50,55	20,40	20,40	54,00	0,00	67,50	243,52	10.540,03	-10.296,51	17,90	-49,60
6.023,00	5,00	17,75	9,00	0,00	169,86	11,87	33,97	0,00	0,00	33,97	79,10	113,07	54,00	59,07	141,34	243,52	10.681,37	-10.437,85	0,00	-141,34

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.023,50	5,00	17,42	9,00	0,00	175,85	9,76	35,17	0,00	0,00	35,17	108,15	143,32	54,00	89,32	179,15	243,52	10.860,52	-10.617,00	0,00	-179,15
6.024,00	5,00	17,14	9,00	0,00	172,83	8,26	34,57	0,00	0,00	34,57	90,10	124,67	54,00	70,67	155,83	243,52	11.016,35	-10.772,83	0,00	-155,83
6.024,50	5,00	17,40	9,00	0,00	172,73	8,95	34,55	0,00	0,00	34,55	86,05	120,60	54,00	66,60	150,75	243,52	11.167,10	-10.923,58	0,00	-150,75
6.025,00	5,00	17,23	9,00	0,00	173,19	8,17	34,64	0,00	0,00	34,64	85,60	120,24	54,00	66,24	150,30	243,52	11.317,40	-11.073,88	0,00	-150,30
6.025,50	5,00	17,01	9,00	0,00	171,22	7,80	34,24	0,00	0,00	34,24	79,85	114,09	54,00	60,09	142,62	243,52	11.460,01	-11.216,50	0,00	-142,62
6.026,00	5,00	16,87	9,00	0,03	169,41	7,27	33,88	54,15	20,27	54,15	75,35	75,35	54,00	21,35	94,19	263,79	11.554,20	-11.290,42	20,27	-73,92
6.026,50	5,00	16,63	9,00	0,15	167,51	6,27	33,50	54,90	21,40	54,90	67,70	67,70	54,00	13,70	84,63	285,18	11.638,83	-11.353,64	21,40	-63,23
6.027,00	5,00	17,06	9,00	4,77	168,47	1,41	33,69	78,60	44,91	78,60	38,40	38,40	54,00	0,00	67,50	330,09	11.706,33	-11.376,24	44,91	-22,59
6.027,50	5,00	16,87	9,00	6,56	169,66	0,84	33,93	110,65	76,72	110,65	11,25	11,25	54,00	0,00	67,50	406,81	11.773,83	-11.367,02	67,50	9,22
6.028,00	5,00	16,99	9,00	6,84	169,28	0,00	33,86	121,00	87,14	121,00	4,20	4,20	54,00	0,00	67,50	493,95	11.841,33	-11.347,38	67,50	19,64
6.028,50	5,00	17,10	9,00	7,56	170,45	0,00	34,09	126,00	91,91	126,00	0,00	0,00	54,00	0,00	67,50	585,86	11.908,83	-11.322,97	67,50	24,41
6.029,00	5,00	17,10	9,00	6,15	171,00	0,00	34,20	122,55	88,35	122,55	0,00	0,00	54,00	0,00	67,50	674,21	11.976,33	-11.302,12	67,50	20,85
6.029,50	5,00	16,91	9,00	4,35	170,06	0,00	34,01	106,50	72,49	106,50	0,00	0,00	54,00	0,00	67,50	746,70	12.043,83	-11.297,13	67,50	4,99
6.030,00	5,00	16,28	9,00	3,75	165,98	0,09	33,20	94,50	61,30	94,50	0,45	0,45	54,00	0,00	67,50	808,00	12.111,33	-11.303,32	61,30	-6,20
6.030,50	5,00	16,68	9,00	4,81	164,82	0,00	32,96	96,80	63,84	96,80	0,45	0,45	54,00	0,00	67,50	871,84	12.178,83	-11.306,99	63,84	-3,66
6.031,00	5,00	16,90	9,00	6,01	167,89	0,00	33,58	108,10	74,52	108,10	0,00	0,00	54,00	0,00	67,50	946,36	12.246,33	-11.299,96	67,50	7,02
6.031,50	5,00	16,87	9,00	4,46	168,85	0,38	33,77	106,35	72,58	106,35	1,90	1,90	54,00	0,00	67,50	1.018,94	12.313,83	-11.294,88	67,50	5,08
6.032,00	5,00	16,88	9,00	3,10	168,78	0,43	33,76	91,80	58,04	91,80	4,05	4,05	54,00	0,00	67,50	1.076,99	12.381,33	-11.304,34	58,04	-9,46
6.032,50	5,00	16,15	9,00	1,38	165,17	0,65	33,03	76,40	43,37	76,40	5,40	5,40	54,00	0,00	67,50	1.120,35	12.448,83	-11.328,48	43,37	-24,13
6.033,00	5,00	16,54	9,00	2,52	163,47	0,29	32,69	73,50	40,81	73,50	4,70	4,70	54,00	0,00	67,50	1.161,16	12.516,33	-11.355,17	40,81	-26,69
6.033,50	5,00	16,55	9,00	4,32	165,45	0,00	33,09	88,20	55,11	88,20	1,45	1,45	54,00	0,00	67,50	1.216,27	12.583,83	-11.367,56	55,11	-12,39
6.034,00	5,00	15,90	9,00	5,15	162,25	0,02	32,45	101,35	68,90	101,35	0,10	0,10	54,00	0,00	67,50	1.285,17	12.651,33	-11.366,16	67,50	1,40
6.034,50	5,00	16,01	9,00	5,98	159,55	0,01	31,91	109,65	77,74	109,65	0,15	0,15	54,00	0,00	67,50	1.362,91	12.718,83	-11.355,92	67,50	10,24
6.035,00	5,00	16,64	9,00	8,04	163,22	0,00	32,64	124,10	91,46	124,10	0,05	0,05	54,00	0,00	67,50	1.454,36	12.786,33	-11.331,96	67,50	23,96
6.035,50	5,00	17,31	9,00	11,09	169,76	0,26	33,95	149,65	115,70	149,65	1,30	1,30	54,00	0,00	67,50	1.570,06	12.853,83	-11.283,77	67,50	48,20

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.036,00	5,00	17,23	9,00	13,57	172,74	0,00	34,55	177,30	142,75	177,30	1,30	1,30	54,00	0,00	67,50	1.712,81	12.921,33	-11.208,51	67,50	75,25
6.036,50	5,00	17,49	9,00	11,83	173,62	0,00	34,72	181,00	146,28	181,00	0,00	0,00	54,00	0,00	67,50	1.859,09	12.988,83	-11.129,74	67,50	78,78
6.037,00	5,00	17,39	9,00	10,23	174,40	0,00	34,88	164,30	129,42	164,30	0,00	0,00	54,00	0,00	67,50	1.988,51	13.056,33	-11.067,82	67,50	61,92
6.037,50	5,00	17,13	9,00	9,47	172,63	0,00	34,53	152,50	117,97	152,50	0,00	0,00	54,00	0,00	67,50	2.106,48	13.123,83	-11.017,34	67,50	50,47
6.038,00	5,00	17,28	9,00	8,74	172,09	0,00	34,42	145,05	110,63	145,05	0,00	0,00	54,00	0,00	67,50	2.217,12	13.191,33	-10.974,21	67,50	43,13
6.038,50	5,00	17,13	9,00	7,91	172,05	0,00	34,41	137,25	102,84	137,25	0,00	0,00	54,00	0,00	67,50	2.319,95	13.258,83	-10.938,87	67,50	35,34
6.039,00	5,00	17,20	9,00	8,87	171,64	0,00	34,33	137,90	103,57	137,90	0,00	0,00	54,00	0,00	67,50	2.423,53	13.326,33	-10.902,80	67,50	36,07
6.039,50	5,00	16,66	9,00	7,54	169,34	0,02	33,87	136,05	102,18	136,05	0,10	0,10	54,00	0,00	67,50	2.525,71	13.393,83	-10.868,12	67,50	34,68
6.040,00	5,00	16,66	9,00	7,46	166,60	0,01	33,32	129,00	95,68	129,00	0,15	0,15	54,00	0,00	67,50	2.621,39	13.461,33	-10.839,94	67,50	28,18
6.040,50	5,00	17,21	9,00	8,38	169,35	0,00	33,87	133,20	99,33	133,20	0,05	0,05	54,00	0,00	67,50	2.720,72	13.528,83	-10.808,11	67,50	31,83
6.041,00	5,00	16,86	9,00	8,57	170,37	0,00	34,07	138,75	104,68	138,75	0,00	0,00	54,00	0,00	67,50	2.825,39	13.596,33	-10.770,93	67,50	37,18
6.041,50	5,00	17,31	9,00	9,05	170,86	0,00	34,17	142,10	107,93	142,10	0,00	0,00	54,00	0,00	67,50	2.933,32	13.663,83	-10.730,50	67,50	40,43
6.042,00	5,00	17,40	9,00	9,62	173,57	0,00	34,71	147,35	112,64	147,35	0,00	0,00	54,00	0,00	67,50	3.045,96	13.731,33	-10.685,37	67,50	45,14
6.042,50	5,00	17,39	9,00	8,93	173,95	0,00	34,79	146,75	111,96	146,75	0,00	0,00	54,00	0,00	67,50	3.157,92	13.798,83	-10.640,91	67,50	44,46
6.043,00	5,00	16,80	9,00	5,98	170,96	0,09	34,19	128,55	94,36	128,55	0,45	0,45	54,00	0,00	67,50	3.252,28	13.866,33	-10.614,05	67,50	26,86
6.043,50	5,00	17,04	9,00	7,40	169,23	0,00	33,85	120,90	87,05	120,90	0,45	0,45	54,00	0,00	67,50	3.339,33	13.933,83	-10.594,50	67,50	19,55
6.044,00	5,00	16,75	9,00	7,62	168,97	0,01	33,79	129,10	95,31	129,10	0,05	0,05	54,00	0,00	67,50	3.434,64	14.001,33	-10.566,69	67,50	27,81
6.044,50	5,00	16,93	9,00	7,54	168,41	0,03	33,68	129,80	96,12	129,80	0,20	0,20	54,00	0,00	67,50	3.530,76	14.068,83	-10.538,07	67,50	28,62
6.045,00	5,00	16,86	9,00	5,20	168,94	0,10	33,79	117,70	83,91	117,70	0,65	0,65	54,00	0,00	67,50	3.614,67	14.136,33	-10.521,66	67,50	16,41
6.045,50	5,00	16,79	9,00	1,53	168,23	0,27	33,65	87,65	54,00	87,65	1,85	1,85	54,00	0,00	67,50	3.668,67	14.203,83	-10.535,16	54,00	-13,50
6.046,00	5,00	17,24	9,00	8,27	170,13	0,00	34,03	103,00	68,97	103,00	1,35	1,35	54,00	0,00	67,50	3.737,64	14.271,33	-10.533,68	67,50	1,47
6.046,50	5,00	17,78	9,00	11,76	175,11	0,00	35,02	154,15	119,13	154,15	0,00	0,00	54,00	0,00	67,50	3.856,77	14.338,83	-10.482,06	67,50	51,63
6.047,00	5,00	18,14	9,00	13,24	179,63	0,00	35,93	179,00	143,07	179,00	0,00	0,00	54,00	0,00	67,50	3.999,85	14.406,33	-10.406,48	67,50	75,57
6.047,50	5,00	18,67	9,00	15,51	184,07	0,00	36,81	197,75	160,94	197,75	0,00	0,00	54,00	0,00	67,50	4.160,78	14.473,83	-10.313,05	67,50	93,44
6.048,00	5,00	19,34	9,00	18,77	190,06	0,00	38,01	225,40	187,39	225,40	0,00	0,00	54,00	0,00	67,50	4.348,17	14.541,33	-10.193,16	67,50	119,89

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.048,50	5,00	19,71	9,00	22,04	195,23	0,00	39,05	258,05	219,00	258,05	0,00	0,00	54,00	0,00	67,50	4.567,17	14.608,83	-10.041,65	67,50	151,50
6.049,00	5,00	19,90	9,00	22,94	198,01	0,00	39,60	278,90	239,30	278,90	0,00	0,00	54,00	0,00	67,50	4.806,47	14.676,33	-9.869,86	67,50	171,80
6.049,50	5,00	19,95	9,00	22,71	199,23	0,00	39,85	282,25	242,40	282,25	0,00	0,00	54,00	0,00	67,50	5.048,88	14.743,83	-9.694,95	67,50	174,90
6.050,00	5,00	20,40	9,00	25,03	201,77	0,00	40,35	292,70	252,35	292,70	0,00	0,00	54,00	0,00	67,50	5.301,22	14.811,33	-9.510,11	67,50	184,85
6.050,50	5,00	20,87	9,00	27,79	206,35	0,00	41,27	318,10	276,83	318,10	0,00	0,00	54,00	0,00	67,50	5.578,05	14.878,83	-9.300,77	67,50	209,33
6.051,00	5,00	21,52	9,00	30,49	211,92	0,00	42,38	345,40	303,02	345,40	0,00	0,00	54,00	0,00	67,50	5.881,07	14.946,33	-9.065,26	67,50	235,52
6.051,50	5,00	21,02	9,00	27,22	212,70	0,00	42,54	342,55	300,01	342,55	0,00	0,00	54,00	0,00	67,50	6.181,08	15.013,83	-8.832,75	67,50	232,51
6.052,00	5,00	21,91	9,00	32,29	214,66	0,00	42,93	351,55	308,62	351,55	0,00	0,00	54,00	0,00	67,50	6.489,70	15.081,33	-8.591,63	67,50	241,12
6.052,50	5,00	22,40	9,00	34,78	221,53	0,00	44,31	389,35	345,04	389,35	0,00	0,00	54,00	0,00	67,50	6.834,74	15.148,83	-8.314,08	67,50	277,54
6.053,00	5,00	22,57	9,00	35,75	224,80	0,00	44,96	406,65	361,69	406,65	0,00	0,00	54,00	0,00	67,50	7.196,43	15.216,33	-8.019,90	67,50	294,19
6.053,50	5,00	22,75	9,00	36,80	226,59	0,00	45,32	416,75	371,43	416,75	0,00	0,00	54,00	0,00	67,50	7.567,86	15.283,83	-7.715,96	67,50	303,93
6.053,73	2,31	23,06	9,00	38,26	105,94	0,00	21,19	198,55	177,36	198,55	0,00	0,00	24,97	0,00	31,22	7.745,23	15.315,05	-7.569,82	31,22	146,14
6.053,75	0,19	23,08	9,00	38,39	8,65	0,00	1,73	16,40	14,67	16,40	0,00	0,00	2,03	0,00	2,53	7.759,89	15.317,58	-7.557,68	2,53	12,14
6.054,00	2,50	23,36	9,00	40,12	116,09	0,00	23,22	223,28	200,06	223,28	0,00	0,00	27,00	0,00	33,75	7.959,95	15.351,33	-7.391,38	33,75	166,31
6.054,25	2,50	23,62	9,00	42,06	117,45	0,00	23,49	232,45	208,96	232,45	0,00	0,00	27,00	0,00	33,75	8.168,91	15.385,08	-7.216,16	33,75	175,21
6.054,50	2,50	23,83	9,00	43,76	118,62	0,00	23,72	241,55	217,83	241,55	0,00	0,00	27,00	0,00	33,75	8.386,74	15.418,83	-7.032,09	33,75	184,08
6.054,75	2,50	23,93	9,00	44,78	119,40	0,00	23,88	248,35	224,47	248,35	0,00	0,00	27,00	0,00	33,75	8.611,21	15.452,58	-6.841,37	33,75	190,72
6.055,00	2,50	24,11	9,00	45,13	120,11	0,00	24,02	251,78	227,75	251,78	0,00	0,00	27,00	0,00	33,75	8.838,96	15.486,33	-6.647,37	33,75	194,00
6.055,25	2,50	24,59	9,00	48,54	121,76	0,00	24,35	261,18	236,82	261,18	0,00	0,00	27,00	0,00	33,75	9.075,78	15.520,08	-6.444,29	33,75	203,07
6.055,50	2,50	25,18	9,00	51,64	124,44	0,00	24,89	277,45	252,56	277,45	0,00	0,00	27,00	0,00	33,75	9.328,35	15.553,83	-6.225,48	33,75	218,81
6.055,75	2,50	25,43	9,00	54,28	126,53	0,00	25,31	291,80	266,49	291,80	0,00	0,00	27,00	0,00	33,75	9.594,84	15.587,58	-5.992,73	33,75	232,74
6.056,00	2,50	25,71	9,00	56,87	127,85	0,00	25,57	304,88	279,31	304,88	0,00	0,00	27,00	0,00	33,75	9.874,15	15.621,33	-5.747,18	33,75	245,56
6.056,25	2,50	26,07	9,00	59,38	129,44	0,00	25,89	317,63	291,74	317,63	0,00	0,00	27,00	0,00	33,75	10.165,89	15.655,08	-5.489,19	33,75	257,99
6.056,50	2,50	25,44	9,00	57,73	128,76	0,00	25,75	319,78	294,02	319,78	0,00	0,00	27,00	0,00	33,75	10.459,91	15.688,83	-5.228,92	33,75	260,27
6.056,60	1,05	25,56	9,00	57,43	53,29	0,00	10,66	131,63	120,97	131,63	0,00	0,00	11,29	0,00	14,11	10.580,88	15.702,93	-5.122,06	14,11	106,86

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.056,75	1,45	25,59	9,00	56,82	74,43	0,00	14,89	181,95	167,06	181,95	0,00	0,00	15,71	0,00	19,64	10.747,94	15.722,58	-4.974,64	19,64	147,42
6.057,00	2,50	26,29	9,00	59,11	129,70	0,00	25,94	316,83	290,89	316,83	0,00	0,00	27,00	0,00	33,75	11.038,83	15.756,33	-4.717,50	33,75	257,14
6.057,25	2,50	27,38	9,00	67,44	134,17	0,00	26,83	343,38	316,54	343,38	0,00	0,00	27,00	0,00	33,75	11.355,37	15.790,08	-4.434,71	33,75	282,79
6.057,50	2,50	28,31	9,00	75,76	139,21	0,00	27,84	385,00	357,16	385,00	0,00	0,00	27,00	0,00	33,75	11.712,52	15.823,83	-4.111,30	33,75	323,41
6.057,75	2,50	29,14	9,00	80,86	143,61	0,00	28,72	418,55	389,83	418,55	0,00	0,00	27,00	0,00	33,75	12.102,35	15.857,58	-3.755,22	33,75	356,08
6.058,00	2,50	29,78	9,00	85,80	147,30	0,00	29,46	443,65	414,19	443,65	0,00	0,00	27,00	0,00	33,75	12.516,54	15.891,33	-3.374,78	33,75	380,44
6.058,25	2,50	30,42	9,00	90,86	150,50	0,00	30,10	468,65	438,55	468,65	0,00	0,00	27,00	0,00	33,75	12.955,09	15.925,08	-2.969,99	33,75	404,80
6.058,50	2,50	30,80	9,00	94,99	153,04	0,00	30,61	491,63	461,02	491,63	0,00	0,00	27,00	0,00	33,75	13.416,11	15.958,83	-2.542,72	33,75	427,27
6.058,75	2,50	30,89	9,00	95,66	154,23	0,00	30,85	503,63	472,78	503,63	0,00	0,00	27,00	0,00	33,75	13.888,89	15.992,58	-2.103,69	33,75	439,03
6.059,00	2,50	30,87	9,00	95,28	154,41	0,00	30,88	504,35	473,47	504,35	0,00	0,00	27,00	0,00	33,75	14.362,36	16.026,33	-1.663,97	33,75	439,72
6.059,25	2,50	31,19	9,00	95,63	155,15	0,00	31,03	504,28	473,25	504,28	0,00	0,00	27,00	0,00	33,75	14.835,60	16.060,08	-1.224,48	33,75	439,50
6.059,48	2,28	31,71	9,20	100,41	143,23	0,00	28,65	471,25	442,60	471,25	0,00	0,00	24,87	0,00	31,08	15.278,21	16.091,16	-812,95	31,08	411,52
6.059,48	0,00	31,82	9,24	100,41	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	15.278,21	16.091,16	-812,95	0,00	0,00
6.059,50	0,22	32,53	9,90	101,00	14,35	0,00	2,87	47,48	44,61	47,48	0,00	0,00	2,56	0,00	3,20	15.322,81	16.094,36	-771,55	3,20	41,40
6.059,75	2,50	33,67	10,91	104,48	165,51	0,00	33,10	544,92	511,81	544,92	0,00	0,00	31,22	0,00	39,02	15.834,63	16.133,38	-298,76	39,02	472,79
6.060,00	2,50	35,25	12,30	109,23	172,31	0,00	34,46	569,09	534,63	569,09	0,00	0,00	34,82	0,00	43,52	16.369,25	16.176,90	192,35	43,52	491,11
6.060,25	2,50	35,68	12,72	116,75	177,33	0,00	35,47	602,48	567,01	602,48	0,00	0,00	37,53	0,00	46,91	16.936,26	16.223,81	712,45	46,91	520,10
6.060,50	2,50	35,64	12,72	119,80	178,31	0,00	35,66	629,54	593,87	629,54	0,00	0,00	38,16	0,00	47,70	17.530,14	16.271,51	1.258,63	47,70	546,17
6.060,55	0,48	35,67	12,72	122,09	34,55	0,00	6,91	124,59	117,68	124,59	0,00	0,00	7,40	0,00	9,24	17.647,82	16.280,75	1.367,06	9,24	108,44
6.060,75	2,02	35,57	12,72	124,03	143,59	0,00	28,72	526,82	498,10	526,82	0,00	0,00	30,76	0,00	38,46	18.145,92	16.319,21	1.826,71	38,46	459,64
6.061,00	2,50	35,17	12,72	121,87	176,85	0,00	35,37	652,91	617,54	652,91	0,00	0,00	38,16	0,00	47,70	18.763,46	16.366,91	2.396,55	47,70	569,84
6.061,25	2,50	34,68	12,72	118,06	174,62	0,00	34,92	637,99	603,06	637,99	0,00	0,00	38,16	0,00	47,70	19.366,52	16.414,61	2.951,91	47,70	555,36
6.061,50	2,50	34,52	12,72	113,81	173,00	0,00	34,60	617,84	583,24	617,84	0,00	0,00	38,16	0,00	47,70	19.949,75	16.462,31	3.487,45	47,70	535,54
6.061,62	1,19	28,38	7,47	111,62	75,01	0,00	15,00	283,27	268,27	283,27	0,00	0,00	14,45	0,00	18,06	20.218,03	16.480,37	3.737,66	18,06	250,21
6.062,00	3,81	27,67	6,00	75,73	213,41	0,00	42,68	744,11	701,43	744,11	0,00	0,00	30,77	0,00	38,47	20.919,45	16.518,83	4.400,62	38,47	662,96

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.062,50	5,00	25,47	6,00	70,64	265,70	0,00	53,14	767,85	714,71	767,85	0,00	0,00	36,00	0,00	45,00	21.634,16	16.563,83	5.070,33	45,00	669,71
6.063,00	5,00	24,50	6,00	60,65	249,82	0,00	49,96	692,45	642,49	692,45	0,00	0,00	36,00	0,00	45,00	22.276,65	16.608,83	5.667,82	45,00	597,49
6.063,50	5,00	21,28	6,00	55,94	228,90	0,00	45,78	618,95	573,17	618,95	0,00	0,00	36,00	0,00	45,00	22.849,82	16.653,83	6.195,99	45,00	528,17
6.064,00	5,00	21,02	6,00	41,53	211,53	0,00	42,31	523,35	481,04	523,35	0,00	0,00	36,00	0,00	45,00	23.330,86	16.698,83	6.632,03	45,00	436,04
6.064,50	5,00	18,86	6,00	34,93	199,42	0,00	39,88	418,30	378,42	418,30	0,00	0,00	36,00	0,00	45,00	23.709,28	16.743,83	6.965,44	45,00	333,42
6.065,00	5,00	17,53	6,00	24,52	181,97	0,00	36,39	333,25	296,86	333,25	0,00	0,00	36,00	0,00	45,00	24.006,13	16.788,83	7.217,30	45,00	251,86
6.065,50	5,00	16,83	6,00	19,04	171,82	0,00	34,36	253,80	219,44	253,80	0,00	0,00	36,00	0,00	45,00	24.225,57	16.833,83	7.391,74	45,00	174,44
6.066,00	5,00	16,08	6,00	15,55	164,59	0,00	32,92	208,95	176,03	208,95	0,00	0,00	36,00	0,00	45,00	24.401,60	16.878,83	7.522,77	45,00	131,03
6.066,50	5,00	14,93	6,00	11,31	155,10	0,00	31,02	170,30	139,28	170,30	0,00	0,00	36,00	0,00	45,00	24.540,88	16.923,83	7.617,05	45,00	94,28
6.067,00	5,00	14,54	6,00	8,24	147,40	0,00	29,48	133,75	104,27	133,75	0,00	0,00	36,00	0,00	45,00	24.645,15	16.968,83	7.676,32	45,00	59,27
6.067,50	5,00	13,06	6,00	6,85	138,03	0,00	27,61	111,45	83,84	111,45	0,00	0,00	36,00	0,00	45,00	24.729,00	17.013,83	7.715,16	45,00	38,84
6.068,00	5,00	13,81	6,00	1,12	134,34	0,42	26,87	75,85	48,98	75,85	2,10	2,10	36,00	0,00	45,00	24.777,98	17.058,83	7.719,15	45,00	3,98
6.068,50	5,00	13,97	6,00	0,03	138,90	0,85	27,78	41,75	13,97	41,75	6,35	6,35	36,00	0,00	45,00	24.791,95	17.103,83	7.688,12	13,97	-31,03
6.069,00	5,00	13,84	6,00	0,00	139,06	1,75	27,81	23,15	0,00	27,81	13,00	40,81	36,00	4,81	51,02	24.791,95	17.154,85	7.637,10	0,00	-51,02
6.069,50	5,00	13,23	6,00	0,03	135,35	1,23	27,07	36,15	9,08	36,15	14,90	14,90	36,00	0,00	45,00	24.801,03	17.199,85	7.601,18	9,08	-35,92
6.070,00	5,00	12,73	6,00	0,25	129,79	1,00	25,96	37,40	11,44	37,40	11,15	11,15	36,00	0,00	45,00	24.812,47	17.244,85	7.567,62	11,44	-33,56
6.070,50	5,00	12,91	6,00	1,44	128,16	0,25	25,63	44,45	18,82	44,45	6,25	6,25	36,00	0,00	45,00	24.831,29	17.289,85	7.541,44	18,82	-26,18
6.071,00	5,00	12,91	6,00	2,15	129,07	0,08	25,81	53,95	28,14	53,95	1,65	1,65	36,00	0,00	45,00	24.859,43	17.334,85	7.524,58	28,14	-16,86
6.071,31	3,06	15,26	5,90	2,20	86,23	0,77	17,25	35,18	17,93	35,18	2,60	2,60	21,86	0,00	27,33	24.877,36	17.362,18	7.515,18	17,93	-9,40
6.071,50	1,94	14,66	5,45	1,53	58,02	2,30	11,60	20,44	8,83	20,44	5,95	5,95	13,20	0,00	16,51	24.886,19	17.378,68	7.507,51	8,83	-7,67
6.071,75	2,50	14,14	5,04	1,68	72,00	1,82	14,40	23,75	9,35	23,75	10,30	10,30	15,73	0,00	19,66	24.895,54	17.398,35	7.497,20	9,35	-10,31
6.072,00	2,50	13,70	4,69	1,80	69,60	1,52	13,92	23,29	9,37	23,29	8,35	8,35	14,59	0,00	18,23	24.904,91	17.416,58	7.488,33	9,37	-8,87
6.072,25	2,50	13,30	4,38	1,90	67,51	1,35	13,50	22,85	9,35	22,85	7,18	7,18	13,60	0,00	17,00	24.914,26	17.433,58	7.480,68	9,35	-7,65
6.072,50	2,50	13,14	4,27	1,93	66,11	1,22	13,22	22,55	9,33	22,55	6,43	6,43	12,98	0,00	16,22	24.923,59	17.449,80	7.473,79	9,33	-6,89
6.072,60	1,01	12,92	4,13	1,93	26,23	1,15	5,25	8,96	3,71	8,96	2,39	2,39	5,07	0,00	6,34	24.927,30	17.456,14	7.471,16	3,71	-2,63

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
6.072,75	1,49	12,51	3,92	1,93	37,97	1,06	7,59	12,97	5,38	12,97	3,30	3,30	7,21	0,00	9,01	24.932,68	17.465,15	7.467,53	5,38	-3,63
6.073,00	2,50	12,17	3,77	1,93	61,69	0,92	12,34	21,18	8,84	21,18	4,95	4,95	11,53	0,00	14,42	24.941,52	17.479,56	7.461,96	8,84	-5,57
6.073,25	2,50	11,93	3,66	1,94	60,26	0,76	12,05	20,82	8,77	20,82	4,20	4,20	11,14	0,00	13,93	24.950,29	17.493,49	7.456,80	8,77	-5,16
6.073,50	2,50	8,15	3,60	2,03	50,22	0,64	10,04	20,82	10,77	20,82	3,50	3,50	10,89	0,00	13,62	24.961,07	17.507,11	7.453,96	10,77	-2,84
6.073,75	2,50	8,15	3,60	1,37	40,76	0,60	8,15	19,30	11,15	19,30	3,10	3,10	10,80	0,00	13,50	24.972,21	17.520,61	7.451,60	11,15	-2,35
6.073,90	1,45	8,13	3,60	1,38	23,63	0,59	4,73	10,27	5,54	10,27	1,73	1,73	6,27	0,00	7,84	24.977,75	17.528,45	7.449,30	5,54	-2,30
6.074,00	1,05	8,11	3,60	1,39	17,02	0,59	3,40	7,43	4,03	7,43	1,24	1,24	4,53	0,00	5,66	24.981,78	17.534,11	7.447,67	4,03	-1,63
6.074,50	5,00	8,11	3,60	1,41	81,10	0,58	16,22	35,60	19,38	35,60	5,85	5,85	21,60	0,00	27,00	25.001,16	17.561,11	7.440,05	19,38	-7,62
6.075,00	5,00	8,21	3,60	1,43	81,58	0,57	16,32	35,80	19,48	35,80	5,75	5,75	21,60	0,00	27,00	25.020,64	17.588,11	7.432,53	19,48	-7,52
6.075,50	5,00	8,38	3,60	1,42	82,94	0,64	16,59	35,85	19,26	35,85	6,05	6,05	21,60	0,00	27,00	25.039,90	17.615,11	7.424,79	19,26	-7,74
6.076,00	5,00	8,38	3,60	1,38	83,81	0,73	16,76	35,60	18,84	35,60	6,85	6,85	21,60	0,00	27,00	25.058,74	17.642,11	7.416,63	18,84	-8,16
6.076,50	5,00	8,44	3,60	1,35	84,14	0,73	16,83	35,25	18,42	35,25	7,30	7,30	21,60	0,00	27,00	25.077,16	17.669,11	7.408,06	18,42	-8,58
6.077,00	5,00	8,49	3,60	1,26	84,69	0,78	16,94	34,65	17,71	34,65	7,55	7,55	21,60	0,00	27,00	25.094,88	17.696,11	7.398,77	17,71	-9,29
6.077,50	5,00	8,47	3,60	1,20	84,81	0,82	16,96	33,90	16,94	33,90	8,00	8,00	21,60	0,00	27,00	25.111,81	17.723,11	7.388,71	16,94	-10,06
6.078,00	5,00	8,48	3,60	1,27	84,74	0,80	16,95	33,95	17,00	33,95	8,10	8,10	21,60	0,00	27,00	25.128,82	17.750,11	7.378,71	17,00	-10,00
6.078,50	5,00	7,84	3,19	1,32	81,59	0,80	16,32	33,31	16,99	33,31	8,00	8,00	20,36	0,00	25,45	25.145,81	17.775,56	7.370,25	16,99	-8,46
6.079,00	5,00	7,07	2,67	1,15	74,56	0,86	14,91	29,92	15,01	29,92	8,30	8,30	17,57	0,00	21,97	25.160,82	17.797,52	7.363,29	15,01	-6,96
6.079,50	5,00	6,44	2,16	0,96	67,57	0,62	13,51	25,04	11,53	25,04	7,40	7,40	14,49	0,00	18,11	25.172,34	17.815,64	7.356,71	11,53	-6,59
6.080,00	5,00	6,25	1,64	0,90	63,44	0,36	12,69	20,70	8,02	20,70	4,90	4,90	11,40	0,00	14,25	25.180,36	17.829,89	7.350,47	8,02	-6,24
6.080,50	5,00	6,32	1,13	1,06	62,82	0,20	12,56	18,12	5,55	18,12	2,80	2,80	8,32	0,00	10,40	25.185,91	17.840,28	7.345,63	5,55	-4,84
6.081,00	5,00	6,60	0,62	1,05	64,58	0,21	12,92	15,78	2,87	15,78	2,05	2,05	5,23	0,00	6,54	25.188,78	17.846,82	7.341,95	2,87	-3,67
6.081,50	5,00	0,00	0,00	1,02	32,99	0,29	6,60	12,20	5,60	12,20	2,50	2,50	1,85	0,66	3,13	25.194,38	17.849,95	7.344,43	3,13	2,47

1.4.22 Retorno ferroeste 2100

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.100,00		19,63	7,51																	
2.100,18	1,84	25,70	14,28	0,00	83,23	20,68	16,65	0,00	0,00	16,65	37,97	54,61	24,00	30,61	68,27	0,00	68,27	-68,27	0,00	-68,27
2.100,25	0,66	25,54	14,19	0,00	34,02	20,39	6,80	0,00	0,00	6,80	27,27	34,08	11,34	22,73	42,59	0,00	110,86	-110,86	0,00	-42,59
2.100,50	2,50	24,89	13,48	0,00	126,07	22,57	25,21	0,00	0,00	25,21	107,40	132,61	41,51	91,10	165,77	0,00	276,63	-276,63	0,00	-165,77
2.100,56	0,58	24,89	13,48	0,00	28,72	22,48	5,74	0,00	0,00	5,74	25,99	31,74	9,33	22,40	39,67	0,00	316,30	-316,30	0,00	-39,67
2.100,75	1,92	21,77	11,18	0,00	89,73	21,65	17,95	0,00	0,00	17,95	84,86	102,81	28,45	74,36	128,51	0,00	444,81	-444,81	0,00	-128,51
2.100,93	1,82	19,20	8,57	0,00	74,47	19,77	14,89	0,00	0,00	14,89	75,28	90,17	21,53	68,64	112,72	0,00	557,53	-557,53	0,00	-112,72
2.101,00	0,68	18,08	7,21	0,00	25,44	16,98	5,09	0,00	0,00	5,09	25,08	30,17	6,46	23,71	37,71	0,00	595,24	-595,24	0,00	-37,71
2.101,50	5,00	16,79	6,01	0,00	174,34	13,69	34,87	0,00	0,00	34,87	153,35	188,22	39,64	148,58	235,27	0,00	830,51	-830,51	0,00	-235,27
2.101,98	4,83	17,18	6,00	0,00	164,23	17,03	32,85	0,00	0,00	32,85	148,52	181,36	34,84	146,52	226,70	0,00	1.057,21	-1.057,21	0,00	-226,70
2.102,00	0,17	17,17	6,00	0,00	5,68	17,01	1,14	0,00	0,00	1,14	5,63	6,77	1,19	5,58	8,46	0,00	1.065,68	-1.065,68	0,00	-8,46
2.102,25	2,50	17,21	6,00	0,00	85,96	17,35	17,19	0,00	0,00	17,19	85,90	103,09	18,01	85,08	128,86	0,00	1.194,54	-1.194,54	0,00	-128,86
2.102,50	2,50	17,55	6,00	0,00	86,89	17,99	17,38	0,00	0,00	17,38	88,35	105,73	18,01	87,72	132,16	0,00	1.326,70	-1.326,70	0,00	-132,16
2.102,75	2,50	17,62	6,00	0,00	87,90	18,41	17,58	0,00	0,00	17,58	91,00	108,58	18,01	90,57	135,73	0,00	1.462,43	-1.462,43	0,00	-135,73
2.103,00	2,50	17,79	6,00	0,00	88,51	19,16	17,70	0,00	0,00	17,70	93,93	111,63	18,01	93,62	139,53	0,00	1.601,96	-1.601,96	0,00	-139,53
2.103,09	0,93	17,93	6,00	0,00	33,36	19,57	6,67	0,00	0,00	6,67	36,17	42,85	6,73	36,12	53,56	0,00	1.655,52	-1.655,52	0,00	-53,56
2.103,25	1,57	17,90	6,00	0,00	56,11	20,16	11,22	0,00	0,00	11,22	62,22	73,44	11,28	62,16	91,80	0,00	1.747,32	-1.747,32	0,00	-91,80
2.103,50	2,50	17,79	6,00	0,00	89,22	20,51	17,84	0,00	0,00	17,84	101,68	119,52	18,00	101,52	149,40	0,00	1.896,72	-1.896,72	0,00	-149,40
2.103,75	2,50	18,10	6,00	0,00	89,72	21,55	17,94	0,00	0,00	17,94	105,15	123,09	18,00	105,09	153,87	0,00	2.050,59	-2.050,59	0,00	-153,87
2.104,00	2,50	18,35	6,00	0,00	91,12	22,42	18,22	0,00	0,00	18,22	109,93	128,15	18,00	110,15	160,19	0,00	2.210,77	-2.210,77	0,00	-160,19
2.104,20	2,03	18,24	6,00	0,00	74,38	22,44	14,88	0,00	0,00	14,88	91,20	106,08	14,64	91,44	132,60	0,00	2.343,37	-2.343,37	0,00	-132,60
2.104,21	0,05	18,22	6,00	0,00	1,79	22,40	0,36	0,00	0,00	0,36	2,20	2,55	0,35	2,20	3,19	0,00	2.346,56	-2.346,56	0,00	-3,19

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.104,25	0,42	18,25	6,00	0,00	15,24	21,42	3,05	0,00	0,00	3,05	18,32	21,37	3,01	18,36	26,71	0,00	2.373,27	-2.373,27	0,00	-26,71
2.104,50	2,50	18,00	6,00	0,00	90,61	33,49	18,12	0,00	0,00	18,12	137,28	155,40	18,00	137,40	194,25	0,00	2.567,51	-2.567,51	0,00	-194,25
2.104,67	1,68	19,33	6,00	0,00	62,86	37,70	12,57	0,00	0,00	12,57	119,88	132,46	12,12	120,33	165,57	0,00	2.733,08	-2.733,08	0,00	-165,57
2.104,75	0,82	19,89	6,34	0,00	32,01	38,01	6,40	0,00	0,00	6,40	61,78	68,18	6,04	62,14	85,23	0,00	2.818,31	-2.818,31	0,00	-85,23
2.105,00	2,50	19,89	6,34	0,00	99,46	0,00	19,89	0,00	0,00	19,89	95,03	114,92	19,03	95,89	143,65	0,00	2.961,96	-2.961,96	0,00	-143,65
2.105,13	1,29	19,89	6,34	0,00	51,16	0,00	10,23	9,79	0,00	10,23	0,00	10,23	9,79	0,44	12,79	0,00	2.974,75	-2.974,75	0,00	-12,79
2.105,13	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	2.974,75	-2.974,75	0,00	0,00

1.4.23 Taper 2200

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.200,00		6,73	2,50																	
2.200,50	5,00	6,80	2,50	1,81	67,64	0,00	13,53	24,05	10,52	24,05	0,00	0,00	15,00	0,00	18,75	10,52	18,75	-8,23	10,52	-8,23
2.201,00	5,00	6,60	2,50	1,37	66,98	0,00	13,40	30,90	17,50	30,90	0,00	0,00	15,00	0,00	18,75	28,03	37,50	-9,47	17,50	-1,25
2.201,50	5,00	6,62	2,50	1,43	66,07	0,00	13,21	29,00	15,79	29,00	0,00	0,00	15,00	0,00	18,75	43,81	56,25	-12,44	15,79	-2,96
2.202,00	5,00	6,65	2,50	1,46	66,36	0,00	13,27	29,45	16,18	29,45	0,00	0,00	15,00	0,00	18,75	59,99	75,00	-15,01	16,18	-2,57
2.202,50	5,00	6,70	2,57	1,39	66,79	0,00	13,36	29,46	16,11	29,46	0,00	0,00	15,21	0,00	19,02	76,09	94,02	-17,92	16,11	-2,91
2.203,00	5,00	7,26	3,09	1,60	69,81	0,00	13,96	31,92	17,96	31,92	0,00	0,00	16,97	0,00	21,21	94,05	115,23	-21,18	17,96	-3,25
2.203,50	5,00	7,82	3,60	1,86	75,40	0,00	15,08	37,36	22,28	37,36	0,00	0,00	20,06	0,00	25,07	116,33	140,30	-23,97	22,28	-2,79
2.204,00	5,00	7,89	3,60	2,00	78,54	0,00	15,71	40,90	25,19	40,90	0,00	0,00	21,60	0,00	27,00	141,52	167,30	-25,78	25,19	-1,81
2.204,50	5,00	7,88	3,60	1,90	78,82	0,00	15,76	41,10	25,34	41,10	0,00	0,00	21,60	0,00	27,00	166,86	194,30	-27,44	25,34	-1,66
2.205,00	5,00	7,76	3,66	1,93	78,20	0,00	15,64	40,93	25,29	40,93	0,00	0,00	21,78	0,00	27,23	192,15	221,53	-29,38	25,29	-1,94
2.205,50	5,00	9,84	5,51	2,76	87,99	0,00	17,60	50,95	33,35	50,95	0,00	0,00	27,50	0,00	34,38	225,51	255,91	-30,40	33,35	-1,02
2.205,70	2,04	11,42	7,07	2,99	43,42	0,00	8,68	27,15	18,47	27,15	0,00	0,00	15,41	0,00	19,26	243,97	275,16	-31,19	18,47	-0,79

1.4.24 Marginal direita 2300

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.309,17		8,28	3,73																	
2.309,39	2,20	8,58	3,88	0,00	37,11	2,53	7,42	4,48	0,00	7,42	5,57	12,99	10,05	2,94	16,24	0,00	16,24	-16,24	0,00	-16,24
2.309,50	1,15	8,58	3,88	0,00	19,75	2,58	3,95	0,00	0,00	3,95	5,88	9,83	5,36	4,47	12,28	0,00	28,52	-28,52	0,00	-12,28
2.309,59	0,85	8,80	4,02	0,00	14,78	2,62	2,96	0,00	0,00	2,96	4,42	7,38	4,03	3,34	9,22	0,00	37,74	-37,74	0,00	-9,22
2.309,81	2,29	9,11	4,18	0,00	40,93	3,05	8,19	0,00	0,00	8,19	12,96	21,14	11,25	9,90	26,43	0,00	64,17	-64,17	0,00	-26,43
2.310,00	1,86	9,37	4,31	0,00	34,45	3,57	6,89	0,00	0,00	6,89	12,34	19,23	9,49	9,74	24,04	0,00	88,21	-88,21	0,00	-24,04
2.310,04	0,42	9,42	4,33	0,00	7,91	3,73	1,58	0,00	0,00	1,58	3,07	4,66	2,18	2,47	5,82	0,00	94,03	-94,03	0,00	-5,82
2.310,24	2,00	9,75	4,45	0,00	38,34	4,80	7,67	0,00	0,00	7,67	17,06	24,73	10,54	14,19	30,91	0,00	124,94	-124,94	0,00	-30,91
2.310,46	2,20	11,44	6,00	0,00	46,61	6,41	9,32	0,00	0,00	9,32	24,66	33,98	13,80	20,19	42,48	0,00	167,42	-167,42	0,00	-42,48
2.310,50	0,38	11,44	6,00	0,00	8,67	6,61	1,73	0,00	0,00	1,73	4,93	6,67	2,73	3,94	8,34	0,00	175,75	-175,75	0,00	-8,34
2.311,00	5,00	11,88	6,00	0,00	116,58	9,16	23,32	0,00	0,00	23,32	78,85	102,17	36,00	66,17	127,71	0,00	303,46	-303,46	0,00	-127,71
2.311,50	5,00	17,30	6,00	0,00	145,90	14,23	29,18	0,00	0,00	29,18	116,95	146,13	36,00	110,13	182,66	0,00	486,12	-486,12	0,00	-182,66
2.312,00	5,00	18,17	6,00	0,00	177,36	18,25	35,47	0,00	0,00	35,47	162,40	197,87	36,00	161,87	247,34	0,00	733,46	-733,46	0,00	-247,34
2.312,50	5,00	19,12	6,00	0,00	186,45	18,59	37,29	0,00	0,00	37,29	184,20	221,49	36,00	185,49	276,86	0,00	1.010,33	-1.010,33	0,00	-276,86
2.313,00	5,00	19,02	6,00	0,00	190,71	18,40	38,14	0,00	0,00	38,14	184,95	223,09	36,00	187,09	278,86	0,00	1.289,19	-1.289,19	0,00	-278,86
2.313,50	5,00	18,43	6,00	0,00	187,27	15,59	37,45	0,00	0,00	37,45	169,95	207,40	36,00	171,40	259,26	0,00	1.548,45	-1.548,45	0,00	-259,26
2.314,00	5,00	17,79	6,00	0,00	181,13	12,94	36,23	0,00	0,00	36,23	142,65	178,88	36,00	142,88	223,59	0,00	1.772,04	-1.772,04	0,00	-223,59
2.314,50	5,00	16,86	6,00	0,00	173,24	9,95	34,65	0,00	0,00	34,65	114,45	149,10	36,00	113,10	186,37	0,00	1.958,42	-1.958,42	0,00	-186,37
2.315,00	5,00	16,14	6,00	0,00	164,97	7,88	32,99	0,00	0,00	32,99	89,15	122,14	36,00	86,14	152,68	0,00	2.111,10	-2.111,10	0,00	-152,68
2.315,50	5,00	15,16	6,00	0,00	156,51	3,67	31,30	0,00	0,00	31,30	57,75	89,05	36,00	53,05	111,32	0,00	2.222,41	-2.222,41	0,00	-111,32
2.316,00	5,00	13,91	6,00	1,09	145,39	1,10	29,08	41,45	12,37	41,45	23,85	23,85	36,00	0,00	45,00	12,37	2.267,41	-2.255,04	12,37	-32,63
2.316,50	5,00	14,22	6,00	2,59	140,69	0,43	28,14	54,40	26,26	54,40	7,65	7,65	36,00	0,00	45,00	38,63	2.312,41	-2.273,78	26,26	-18,74
2.317,00	5,00	14,24	6,00	2,87	142,34	0,40	28,47	63,30	34,83	63,30	4,15	4,15	36,00	0,00	45,00	73,47	2.357,41	-2.283,95	34,83	-10,17

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.317,20	2,01	14,23	6,00	2,70	57,32	0,43	11,46	25,71	14,25	25,71	1,67	1,67	14,50	0,00	18,12	87,71	2.375,53	-2.287,82	14,25	-3,87
2.317,50	2,99	14,42	6,00	2,38	85,55	0,56	17,11	36,67	19,56	36,67	2,96	2,96	21,50	0,00	26,88	107,28	2.402,41	-2.295,13	19,56	-7,31
2.317,70	2,01	14,54	6,07	1,90	58,31	0,77	11,66	23,20	11,54	23,20	2,68	2,68	14,58	0,00	18,23	118,82	2.420,64	-2.301,82	11,54	-6,69
2.317,98	2,80	16,48	7,76	2,28	86,85	1,11	17,37	34,94	17,57	34,94	5,26	5,26	23,24	0,00	29,05	136,39	2.449,69	-2.313,30	17,57	-11,48
2.318,00	0,19	16,71	7,96	2,38	6,19	1,14	1,24	2,63	1,39	2,63	0,42	0,42	1,76	0,00	2,20	137,78	2.451,89	-2.314,11	1,39	-0,81
2.318,40	4,01	22,55	12,68	5,06	157,59	2,74	31,52	79,57	48,05	79,57	15,57	15,57	49,71	0,00	62,14	185,83	2.514,02	-2.328,19	48,05	-14,08
2.318,50	0,99	22,81	12,82	4,74	44,75	3,24	8,95	24,76	15,81	24,76	5,90	5,90	15,09	0,00	18,86	201,64	2.532,89	-2.331,25	15,81	-3,06
2.319,00	5,00	23,43	13,22	3,07	231,22	5,78	46,24	117,17	70,93	117,17	45,10	45,10	78,12	0,00	97,65	272,57	2.630,54	-2.357,97	70,93	-26,72
2.319,50	5,00	22,35	12,46	1,20	228,90	7,01	45,78	98,39	52,61	98,39	63,95	63,95	77,04	0,00	96,30	325,18	2.726,84	-2.401,66	52,61	-43,69
2.319,78	2,83	20,95	11,53	0,22	122,39	7,58	24,48	44,70	20,22	44,70	41,24	41,24	40,69	0,55	51,55	345,40	2.778,39	-2.432,99	20,22	-31,33
2.320,00	2,17	20,48	10,92	0,06	90,06	8,47	18,01	29,89	11,88	29,89	34,88	34,88	29,28	5,61	43,61	357,28	2.822,00	-2.464,72	11,88	-31,73
2.320,50	5,00	19,54	9,83	1,87	200,12	4,23	40,02	71,89	31,86	71,89	63,50	63,50	62,24	1,27	79,38	389,14	2.901,37	-2.512,23	31,86	-47,51
2.321,00	5,00	18,17	9,19	2,73	188,54	1,81	37,71	80,04	42,33	80,04	30,20	30,20	57,04	0,00	71,30	431,47	2.972,67	-2.541,20	42,33	-28,97
2.321,16	1,64	17,90	9,08	2,95	59,15	1,44	11,83	27,29	15,46	27,29	5,33	5,33	17,97	0,00	22,46	446,93	2.995,14	-2.548,21	15,46	-7,01
2.321,50	3,36	17,32	9,00	3,23	118,33	0,60	23,67	57,21	33,54	57,21	6,85	6,85	36,44	0,00	45,55	480,47	3.040,69	-2.560,22	33,54	-12,01
2.321,58	0,84	17,18	9,00	3,59	28,98	0,50	5,80	14,80	9,01	14,80	0,92	0,92	9,07	0,00	11,34	489,47	3.052,03	-2.562,56	9,01	-2,33
2.321,58	0,00	15,96	9,00	3,59	0,00	0,50	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	489,47	3.052,03	-2.562,56	0,00	0,00
2.321,82	2,40	15,97	9,00	3,39	76,64	0,30	15,33	42,67	27,34	42,67	1,92	1,92	25,92	0,00	32,40	516,82	3.084,43	-2.567,61	27,34	-5,06
2.321,86	0,40	16,05	9,00	3,37	12,81	0,30	2,56	7,02	4,46	7,02	0,24	0,24	4,32	0,00	5,40	521,28	3.089,83	-2.568,55	4,46	-0,94
2.321,97	1,10	16,16	9,00	3,24	35,42	0,34	7,08	19,15	12,07	19,15	0,70	0,70	11,88	0,00	14,85	533,35	3.104,68	-2.571,33	12,07	-2,78
2.322,00	0,26	15,60	9,00	3,09	8,26	0,40	1,65	4,45	2,80	4,45	0,19	0,19	2,81	0,00	3,51	536,15	3.108,19	-2.572,04	2,80	-0,71
2.322,36	3,64	15,66	9,00	2,02	113,75	0,22	22,75	57,91	35,16	57,91	2,26	2,26	39,31	0,00	49,14	571,31	3.157,33	-2.586,02	35,16	-13,98
2.322,50	1,36	15,57	9,00	1,36	42,46	0,26	8,49	19,28	10,79	19,28	0,65	0,65	14,69	0,00	18,36	582,10	3.175,69	-2.593,58	10,79	-7,57
2.323,00	5,00	15,54	9,00	0,31	155,51	1,90	31,10	62,35	31,25	62,35	10,80	10,80	54,00	0,00	67,50	613,35	3.243,19	-2.629,84	31,25	-36,25
2.323,10	1,04	15,55	9,00	0,31	32,22	1,86	6,44	11,84	5,39	11,84	3,90	3,90	11,19	0,00	13,99	618,75	3.257,18	-2.638,44	5,39	-8,60

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.323,50	3,96	17,16	9,00	0,44	129,62	1,67	25,92	45,78	19,85	45,78	13,99	13,99	42,81	0,00	53,51	638,60	3.310,69	-2.672,09	19,85	-33,65
2.324,00	5,00	17,12	9,00	1,31	171,40	2,11	34,28	62,75	28,47	62,75	18,90	18,90	54,00	0,00	67,50	667,07	3.378,19	-2.711,12	28,47	-39,03
2.324,23	2,33	17,10	9,00	1,08	79,86	2,49	15,97	30,78	14,81	30,78	10,73	10,73	25,20	0,00	31,50	681,88	3.409,69	-2.727,82	14,81	-16,70
2.324,38	1,50	17,04	9,00	0,91	51,21	2,98	10,24	19,19	8,94	19,19	8,21	8,21	16,20	0,00	20,25	690,82	3.429,94	-2.739,12	8,94	-11,31
2.324,50	1,17	16,03	9,00	0,74	38,58	3,37	7,72	14,52	6,81	14,52	7,41	7,41	12,60	0,00	15,75	697,63	3.445,69	-2.748,06	6,81	-8,94
2.324,62	1,23	16,48	9,00	0,31	40,08	3,88	8,02	14,61	6,59	14,61	8,94	8,94	13,32	0,00	16,65	704,22	3.462,33	-2.758,11	6,59	-10,05
2.325,00	3,77	16,59	9,00	0,06	124,57	5,63	24,91	42,08	17,16	42,08	35,82	35,82	40,68	0,00	50,85	721,38	3.513,19	-2.791,80	17,16	-33,69
2.325,50	5,00	16,98	9,00	0,00	167,83	7,98	33,57	0,30	0,00	33,57	68,05	101,62	54,00	47,62	127,02	721,38	3.640,21	-2.918,83	0,00	-127,02
2.326,00	5,00	17,85	9,00	0,07	174,14	8,56	34,83	54,35	19,52	54,35	82,70	82,70	54,00	28,70	103,38	740,91	3.743,58	-3.002,68	19,52	-83,85
2.326,50	5,00	18,68	9,00	0,00	182,67	8,92	36,53	0,35	0,00	36,53	87,40	123,93	54,00	69,93	154,92	740,91	3.898,50	-3.157,59	0,00	-154,92
2.327,00	5,00	18,75	9,00	0,00	187,14	11,17	37,43	0,00	0,00	37,43	100,45	137,88	54,00	83,88	172,35	740,91	4.070,85	-3.329,94	0,00	-172,35
2.327,50	5,00	18,60	9,52	0,00	186,75	6,63	37,35	0,00	0,00	37,35	89,00	126,35	55,55	70,80	157,94	740,91	4.228,79	-3.487,88	0,00	-157,94
2.328,00	5,00	18,02	9,99	0,00	183,11	6,99	36,62	0,00	0,00	36,62	68,10	104,72	58,52	46,20	130,90	740,91	4.359,69	-3.618,78	0,00	-130,90
2.328,50	5,00	18,18	9,99	0,00	181,01	2,63	36,20	11,83	0,00	36,20	48,10	84,30	59,93	24,37	105,38	740,91	4.465,07	-3.724,16	0,00	-105,38
2.329,00	5,00	16,36	9,00	0,65	172,69	1,89	34,54	60,22	25,68	60,22	22,60	22,60	56,97	0,00	71,21	766,58	4.536,28	-3.769,69	25,68	-45,53
2.329,50	5,00	16,53	9,00	2,33	164,45	0,61	32,89	68,90	36,01	68,90	12,50	12,50	54,00	0,00	67,50	802,59	4.603,78	-3.801,18	36,01	-31,49
2.330,00	5,00	16,60	9,00	4,65	165,68	0,32	33,14	88,90	55,76	88,90	4,65	4,65	54,00	0,00	67,50	858,36	4.671,28	-3.812,92	55,76	-11,74
2.330,50	5,00	13,70	9,00	7,78	151,52	0,12	30,30	116,15	85,85	116,15	2,20	2,20	54,00	0,00	67,50	944,21	4.738,78	-3.794,57	67,50	18,35
2.331,00	5,00	18,17	9,00	11,35	159,35	0,00	31,87	149,65	117,78	149,65	0,60	0,60	54,00	0,00	67,50	1.061,99	4.806,28	-3.744,29	67,50	50,28
2.331,50	5,00	17,91	9,00	13,58	180,41	0,00	36,08	178,65	142,57	178,65	0,00	0,00	54,00	0,00	67,50	1.204,55	4.873,78	-3.669,22	67,50	75,07
2.332,00	5,00	18,49	9,00	12,62	182,04	0,00	36,41	185,00	148,59	185,00	0,00	0,00	54,00	0,00	67,50	1.353,15	4.941,28	-3.588,13	67,50	81,09
2.332,50	5,00	18,68	9,00	14,39	185,88	0,00	37,18	189,05	151,87	189,05	0,00	0,00	54,00	0,00	67,50	1.505,02	5.008,78	-3.503,76	67,50	84,37
2.333,00	5,00	18,98	9,00	16,01	188,32	0,00	37,66	206,00	168,34	206,00	0,00	0,00	54,00	0,00	67,50	1.673,36	5.076,28	-3.402,92	67,50	100,84
2.333,50	5,00	19,23	9,00	17,49	191,08	0,00	38,22	221,50	183,28	221,50	0,00	0,00	54,00	0,00	67,50	1.856,64	5.143,78	-3.287,13	67,50	115,78
2.334,00	5,00	19,07	9,00	19,03	191,53	0,00	38,31	236,60	198,29	236,60	0,00	0,00	54,00	0,00	67,50	2.054,94	5.211,28	-3.156,34	67,50	130,79

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.334,50	5,00	18,88	9,00	19,26	189,76	0,00	37,95	245,45	207,50	245,45	0,00	0,00	54,00	0,00	67,50	2.262,43	5.278,78	-3.016,34	67,50	140,00
2.335,00	5,00	18,46	9,00	19,32	186,70	0,00	37,34	246,90	209,56	246,90	0,00	0,00	54,00	0,00	67,50	2.472,00	5.346,28	-2.874,28	67,50	142,06
2.335,50	5,00	18,22	9,00	17,11	183,37	0,00	36,67	236,15	199,48	236,15	0,00	0,00	54,00	0,00	67,50	2.671,47	5.413,78	-2.742,31	67,50	131,98
2.336,00	5,00	18,05	9,00	16,21	181,32	0,00	36,26	220,60	184,34	220,60	0,00	0,00	54,00	0,00	67,50	2.855,81	5.481,28	-2.625,47	67,50	116,84
2.336,50	5,00	17,28	9,00	14,32	176,63	0,00	35,33	206,65	171,32	206,65	0,00	0,00	54,00	0,00	67,50	3.027,13	5.548,78	-2.521,65	67,50	103,82
2.337,00	5,00	16,97	9,00	9,69	171,23	0,06	34,25	174,05	139,80	174,05	0,30	0,30	54,00	0,00	67,50	3.166,93	5.616,28	-2.449,34	67,50	72,30
2.337,50	5,00	16,86	9,00	7,06	169,13	0,17	33,83	137,75	103,92	137,75	1,15	1,15	54,00	0,00	67,50	3.270,86	5.683,78	-2.412,92	67,50	36,42
2.338,00	5,00	16,45	9,00	5,68	166,54	0,27	33,31	117,70	84,39	117,70	2,20	2,20	54,00	0,00	67,50	3.355,25	5.751,28	-2.396,03	67,50	16,89
2.338,50	5,00	16,31	9,00	4,47	163,78	0,25	32,76	104,75	71,99	104,75	2,60	2,60	54,00	0,00	67,50	3.427,24	5.818,78	-2.391,53	67,50	4,49
2.339,00	5,00	16,63	9,00	3,21	164,69	0,31	32,94	92,40	59,46	92,40	2,80	2,80	54,00	0,00	67,50	3.486,71	5.886,28	-2.399,57	59,46	-8,04
2.339,50	5,00	17,17	9,00	2,13	169,00	0,71	33,80	80,70	46,90	80,70	5,10	5,10	54,00	0,00	67,50	3.533,61	5.953,78	-2.420,17	46,90	-20,60
2.340,00	5,00	17,20	9,00	2,67	171,83	1,09	34,37	78,00	43,63	78,00	9,00	9,00	54,00	0,00	67,50	3.577,24	6.021,28	-2.444,04	43,63	-23,87
2.340,50	5,00	17,20	9,00	2,67	171,97	1,08	34,39	80,70	46,31	80,70	10,85	10,85	54,00	0,00	67,50	3.623,55	6.088,78	-2.465,23	46,31	-21,19
2.341,00	5,00	17,18	9,00	2,71	171,90	1,03	34,38	80,90	46,52	80,90	10,55	10,55	54,00	0,00	67,50	3.670,06	6.156,28	-2.486,21	46,52	-20,98
2.341,50	5,00	17,08	9,00	3,04	171,29	0,78	34,26	82,75	48,49	82,75	9,05	9,05	54,00	0,00	67,50	3.718,56	6.223,78	-2.505,22	48,49	-19,01
2.342,00	5,00	17,28	9,00	6,82	171,78	0,21	34,36	103,30	68,94	103,30	4,95	4,95	54,00	0,00	67,50	3.787,50	6.291,28	-2.503,78	67,50	1,44
2.342,50	5,00	18,14	9,00	9,26	177,08	0,10	35,42	134,40	98,98	134,40	1,55	1,55	54,00	0,00	67,50	3.886,49	6.358,78	-2.472,29	67,50	31,48
2.343,00	5,00	17,51	9,00	11,09	178,25	0,00	35,65	155,75	120,10	155,75	0,50	0,50	54,00	0,00	67,50	4.006,59	6.426,28	-2.419,69	67,50	52,60
2.343,50	5,00	17,91	9,00	10,81	177,11	0,07	35,42	163,50	128,08	163,50	0,35	0,35	54,00	0,00	67,50	4.134,66	6.493,78	-2.359,11	67,50	60,58
2.344,00	5,00	18,74	9,00	9,69	183,23	0,13	36,65	156,50	119,85	156,50	1,00	1,00	54,00	0,00	67,50	4.254,52	6.561,28	-2.306,76	67,50	52,35
2.344,50	5,00	17,96	9,97	9,80	183,52	0,06	36,70	154,36	117,65	154,36	0,95	0,95	56,91	0,00	71,13	4.372,17	6.632,41	-2.260,24	71,13	46,52
2.345,00	5,00	16,71	9,00	6,64	173,40	0,02	34,68	139,11	104,43	139,11	0,40	0,40	56,91	0,00	71,13	4.476,60	6.703,54	-2.226,95	71,13	33,29
2.345,50	5,00	16,71	9,00	4,47	167,15	0,31	33,43	109,55	76,12	109,55	1,65	1,65	54,00	0,00	67,50	4.552,72	6.771,04	-2.218,33	67,50	8,62
2.345,71	2,07	0,00	0,00	5,14	34,67	0,13	6,93	31,13	24,20	31,13	0,91	0,91	11,20	0,00	14,00	4.576,91	6.785,04	-2.208,13	14,00	10,20

1.4.25 Taper 2600

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.601,29		0,00	0,00																	
2.601,41	1,25	7,00	3,37	0,00	8,74	0,54	1,75	1,85	0,10	1,85	0,67	0,67	2,52	0,00	3,15	0,10	3,15	-3,05	0,10	-3,05
2.601,50	0,85	7,75	4,20	0,02	12,55	0,79	2,51	3,88	1,37	3,88	1,13	1,13	3,86	0,00	4,83	1,47	7,98	-6,51	1,37	-3,46
2.601,58	0,84	8,64	5,02	0,00	13,82	1,71	2,76	2,57	0,00	2,76	2,11	4,87	4,66	0,21	6,09	1,47	14,07	-12,60	0,00	-6,09
2.602,00	4,16	8,04	4,26	0,00	69,32	1,93	13,86	7,99	0,00	13,86	15,13	28,99	23,12	5,88	36,24	1,47	50,31	-48,84	0,00	-36,24
2.602,50	5,00	7,08	3,60	0,00	75,60	0,89	15,12	9,47	0,00	15,12	14,10	29,22	23,57	5,66	36,53	1,47	86,84	-85,37	0,00	-36,53
2.603,00	5,00	6,84	3,60	0,22	69,58	0,30	13,92	22,70	8,78	22,70	5,95	5,95	21,60	0,00	27,00	10,25	113,84	-103,59	8,78	-18,22
2.603,50	5,00	7,52	3,60	1,30	71,76	0,00	14,35	29,20	14,85	29,20	1,50	1,50	21,60	0,00	27,00	25,10	140,84	-115,74	14,85	-12,15
2.604,00	5,00	7,30	3,09	4,00	74,10	0,00	14,82	46,56	31,74	46,56	0,00	0,00	20,06	0,00	25,07	56,84	165,91	-109,07	25,07	6,67
2.604,50	5,00	6,92	2,57	2,97	71,14	0,00	14,23	51,82	37,59	51,82	0,00	0,00	16,97	0,00	21,21	94,43	187,13	-92,69	21,21	16,38
2.605,00	5,00	6,27	2,50	2,07	66,00	0,00	13,20	40,41	27,21	40,41	0,00	0,00	15,21	0,00	19,02	121,65	206,14	-84,50	19,02	8,20
2.605,50	5,00	6,72	2,50	3,50	64,98	0,00	13,00	42,85	29,85	42,85	0,00	0,00	15,00	0,00	18,75	151,50	224,89	-73,39	18,75	11,10
2.606,00	5,00	7,01	2,50	3,13	68,67	0,00	13,73	48,15	34,42	48,15	0,00	0,00	15,00	0,00	18,75	185,92	243,64	-57,73	18,75	15,67
2.606,50	5,00	7,13	2,50	3,70	70,73	0,00	14,15	49,15	35,00	49,15	0,00	0,00	15,00	0,00	18,75	220,92	262,39	-41,47	18,75	16,25
2.607,00	5,00	7,23	2,50	3,85	71,79	0,00	14,36	52,75	38,39	52,75	0,00	0,00	15,00	0,00	18,75	259,31	281,14	-21,83	18,75	19,64
2.607,00	0,00	0,00	0,00	3,85	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	259,31	281,14	-21,83	0,00	0,00

1.4.26 PI km 580+040

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
4.500,00		0,00	0,00																	
4.500,50	5,00	0,00	0,00	187,95	0,00	0,00	0,00	939,75	939,75	939,75	0,00	0,00	0,00	0,00	0,00	939,75	0,00	939,75	0,00	939,75
4.501,00	5,00	17,31	10,31	195,76	86,53	0,00	17,31	1.949,47	1.932,16	1.949,47	0,00	0,00	30,92	0,00	38,65	2.871,91	38,65	2.833,26	38,65	1.893,51
4.501,50	5,00	17,31	10,31	116,87	173,06	0,00	34,61	1.624,99	1.590,37	1.624,99	0,00	0,00	61,84	0,00	77,30	4.462,29	115,94	4.346,34	77,30	1.513,08
4.502,00	5,00	17,06	10,00	83,27	171,81	0,00	34,36	1.061,62	1.027,26	1.061,62	0,00	0,00	60,92	0,00	76,15	5.489,54	192,09	5.297,45	76,15	951,11
4.502,50	5,00	17,06	10,00	96,32	170,55	0,00	34,11	957,95	923,84	957,95	0,00	0,00	60,00	0,00	75,00	6.413,38	267,09	6.146,29	75,00	848,84
4.503,00	5,00	17,06	10,00	0,00	170,55	0,00	34,11	541,60	507,49	541,60	0,00	0,00	60,00	0,00	75,00	6.920,87	342,09	6.578,78	75,00	432,49
4.503,38	3,83	17,06	10,00	0,00	130,59	0,00	26,12	45,94	19,82	45,94	0,00	0,00	45,94	0,00	57,43	6.940,70	399,52	6.541,18	19,82	-37,60

1.4.27 PI km 575+100

Estaca	Distância média (m)	LARGURA (m)		Área (m²)			Volumes (m³)									Volumes Acumulados (m³)			Compensações (m³)	
		CAMADA VEGETAL	EST. PAV.	Corte	Limpeza	Aterro	Limpeza	Corte	Corte efetivo	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	Aterro 95%	Aterro Homo.	Corte	Aterro	Líquido	Lateral	Long.
2.400,52		47,65	21,49																	
2.401,00	4,77	17,25	10,20	71,98	309,24	0,00	61,85	433,60	371,75	433,60	0,00	0,00	90,61	0,00	113,27	371,75	113,27	258,48	113,27	258,48
2.401,50	5,00	17,25	10,20	76,84	172,49	0,00	34,50	805,30	770,80	805,30	0,00	0,00	61,20	0,00	76,50	1.142,55	189,77	952,78	76,50	694,30
2.402,00	5,00	17,22	10,20	39,19	172,33	0,00	34,47	641,35	606,89	641,35	0,00	0,00	61,20	0,00	76,50	1.749,44	266,27	1.483,17	76,50	530,39
2.402,50	5,00	17,22	10,20	16,68	172,16	0,00	34,43	340,55	306,12	340,55	0,00	0,00	61,20	0,00	76,50	2.055,55	342,77	1.712,79	76,50	229,62
2.402,64	1,39	17,22	10,20	16,29	48,00	0,00	9,60	63,02	53,42	63,02	0,00	0,00	17,06	0,00	21,33	2.108,98	364,09	1.744,88	21,33	32,09

1.4.28 Resumo dos Volumes de Terraplenagem

Área nº (Sequência executiva)	Área (m²)			Volumes (m³)									Compensações (m³)		COMP. LAT. (m³)
	Corte	Limpeza	Aterro	Limpeza	Corte	1ª cat	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	ATERRO 95%	Aterro Homog.	Lateral	Longitudinal	
Pista Direita	1.395,47	54.779,52	1.621,22	10.955,90	36.552,52	26.448,51	37.404,41	22.617,25	23.470,64	20.046,03	16.762,59	46.010,78	20.198,45	-19.562,27	26.448,51
Pista Esquerda	1.595,65	69.390,49	1.600,45	13.878,10	27.127,00	17.698,55	31.576,65	28.968,22	33.472,19	19.414,20	24.323,13	54.671,66	13.600,94	-36.973,11	17.698,55
Retorno km 579	83,36	1.297,22	22,50	259,44	767,57	525,76	785,20	82,17	115,41	463,62	17,64	601,57	464,80	-75,81	525,76
PR-180	2.388,93	12.961,84	111,78	2.592,37	23.783,35	21.229,44	23.821,81	1.022,21	1.140,36	2.976,61	105,21	3.852,27	3.233,93	17.377,17	3.852,27
Rot. Norte	481,42	2.628,88	0,00	525,78	4.914,82	4.389,04	4.914,82	0,00	0,00	623,54	0,00	779,43	779,43	3.609,62	779,43
Rot. Sul	1.538,16	3.633,95	0,00	726,79	13.108,89	12.382,10	13.108,89	0,00	0,00	625,62	0,00	782,03	782,03	11.600,07	782,03
50	640,65	16.807,65	9,48	3.361,53	10.164,63	6.803,10	10.164,63	87,03	87,03	4.948,46	0,00	6.185,58	5.898,23	617,53	6.185,58
600	64,22	2.031,13	30,98	406,23	978,55	652,98	1.059,20	228,21	327,87	577,03	151,61	910,79	488,47	-257,81	652,98
700	719,78	3.287,74	9,48	657,55	5.965,17	5.326,21	5.983,76	68,45	129,05	699,30	18,58	897,35	711,92	4.428,86	897,35
800	1.860,66	4.172,89	0,08	834,58	9.735,37	8.900,79	9.735,37	0,51	0,51	820,62	0,00	1.025,78	1.003,47	7.875,02	1.025,78
900	2.118,61	5.060,76	0,09	1.012,15	16.222,45	15.210,30	16.222,45	0,33	0,33	789,85	0,00	987,31	987,31	14.222,99	987,31
1.000	4,99	576,39	4,44	115,28	128,64	23,51	138,79	30,40	71,05	85,80	27,40	141,50	23,51	-117,98	23,51
1.100	393,89	8.391,43	1.012,14	1.678,29	3.697,07	2.655,94	4.334,23	5.101,42	5.738,58	1.927,42	4.975,34	8.628,44	1.351,68	-5.972,50	2.655,94
1.200	26,70	1.566,36	2,95	313,27	598,66	287,84	601,11	28,88	52,58	335,73	19,05	443,47	287,84	-155,63	287,84

Área nº (Sequência executiva)	Área (m²)			Volumes (m³)									Compensações (m³)		COMP. LAT. (m³)
	Corte	Limpeza	Aterro	Limpeza	Corte	1ª cat	Escavação	Aterro	Aterro + Reaterro	Aterro 100%	ATERRO 95%	Aterro Homog.	Lateral	Longitudinal	
1.300	137,09	2.646,92	5,98	529,38	1.754,71	1.225,33	1.754,71	40,32	40,32	842,64	0,00	1.053,30	1.018,13	172,03	1.053,30
1.400	66,40	1.260,56	1,98	252,11	663,41	411,30	663,41	9,74	9,74	319,19	0,00	398,98	368,25	12,32	398,98
1.600	14,22	713,47	6,68	142,69	265,10	122,54	265,24	25,75	28,89	203,13	0,93	255,07	122,54	-132,53	122,54
1.700	65,11	1.676,04	1,10	335,21	922,32	587,11	922,32	9,01	9,01	455,77	0,00	569,71	545,38	17,41	569,71
2.100	0,00	1.942,23	544,83	388,45	9,79	0,00	388,45	1.991,35	2.379,80	445,34	1.934,45	2.974,75	0,00	-2.974,75	0,00
2.200	22,50	846,02	0,00	169,20	413,18	243,97	413,18	0,00	0,00	220,13	0,00	275,16	243,97	-31,19	243,97
2.300	395,66	12.484,65	304,71	2.496,93	6.487,37	4.576,91	7.073,84	2.531,16	3.134,60	3.700,61	1.727,42	6.785,04	2.858,44	-2.208,13	4.576,91
2.400	220,98	874,22	0,00	174,84	2.283,82	2.108,98	2.283,82	0,00	0,00	291,28	0,00	364,09	364,09	1.744,88	364,09
2.600	28,61	808,77	6,16	161,75	409,34	259,31	421,07	40,59	72,34	213,17	11,74	281,14	165,40	-21,83	259,31
4.500	680,17	903,09	0,00	180,62	7.121,31	6.940,70	7.121,31	0,00	0,00	319,61	0,00	399,52	361,91	6.541,18	399,52
5.000	337,88	8.027,01	1,21	1.605,40	6.111,38	4.505,97	6.111,38	12,10	12,10	2.865,68	0,00	3.582,10	3.532,75	923,87	3.582,10
6.000	4.173,28	28.416,89	1.446,94	5.683,38	29.400,56	25.194,38	30.877,75	7.941,66	9.448,06	7.257,81	7.022,15	17.849,95	6.000,49	7.344,43	17.849,95
Marg. 2000	1.121,27	23.224,14	200,90	4.644,83	18.523,22	14.124,22	18.769,05	1.972,36	2.233,38	8.424,00	443,73	11.084,66	9.095,43	3.039,57	11.084,66
TOTAL	**20.575,66**	**270.410,24**	**6.946,08**	**54.082,05**	**228.110,24**	**182.834,83**	**236.916,88**	**72.809,12**	**81.973,85**	**79.892,18**	**57.540,96**	**171.791,43**	**74.488,80**	**11.043,40**	**103.307,89**

1.5 Distribuição dos volumes

A distribuição dos volumes será realizada de modo a otimizar a distância média de transporte, com a compensação entre volumes de corte e aterro. A distribuição foi compatibilizada conforme plano de execução de obras – em 2 (duas) etapas principais.

1.5.1 Etapa 1 – Distribuição de Volumes

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - PRIMEIRA ETAPA

Procedência do Material										Dist. de transporte		Destino do Material						OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)		até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)			
									1ª cat	Mat. Limp.	(m)	(m)					Aterro compensado	Aterro		
1.1	MARG 2000	2.027,00	a	2.034,00	2.001	140,00	**945,00**		945,00		70,00		2.001	2027,00	a	2034,00	945,00	**756,00**	Compensação Lateral	0-200
1.2	MARG 2000	2.027,00	a	2.034,00	2.001	140,00	**5,14**		5,14		90,00		2.002	2034,50	a	2035,50	5,14	**4,11**	Aterro	0-200
1.3	MARG 2000	2.027,00	a	2.034,00	2.001	140,00	**417,56**			417,56	470,00		BF-1	2047,00	a	2061,00			Bota-fora	400-600
1.4	MARG 2000	2.034,50	a	2.035,50	2.002	20,00	**185,73**		185,73		10,00		2.002	2034,50	a	2035,50	185,73	**148,59**	Compensação Lateral	0-200
1.5	MARG 2000	2.034,50	a	2.035,50	2.002	20,00	**89,92**			89,92	380,00		BF-1	2047,00	a	2061,00			Bota-fora	200-400
1.6	MARG 2000	2.036,00	a	2.105,00	2.003	1380,00	**9.937,16**		9.937,16		690,00		2.003	2036,00	a	2105,00	9.937,16	**7.949,73**	Compensação Lateral	600-800
1.7	MARG 2000	2.036,00	a	2.105,00	2.003	1380,00	**11,62**		11,62		710,00		2.002	2034,50	a	2035,50	11,62	**9,30**	Aterro	600-800
1.8	MARG 2000	2.036,00	a	2.105,00	2.003	1380,00	**4.137,35**			4.137,35	330,00		BF-1	2047,00	a	2061,00			Bota-fora	200-400
1.9	MARG 2000	2.036,00	a	2.105,00	2.003	1380,00	**3.039,57**		3.039,57		90,00		PASSEIO	2027,00	a	2105,00	3.039,57	**2.431,65**	Reaterro Obras Comp.	0-200
2.1	PR-180	4.000,00	a	4.004,00	4.001	80,00	**428,43**		428,43		40,00		4.001	4000,00	a	4004,00	428,43	**342,75**	Compensação Lateral	0-200
2.2	PR-180	4.000,00	a	4.004,00	4.001	80,00	**245,18**			245,18		2.560,00	BF-2	28905,00	a	28910,00			Bota-fora	2000-3000
2.3	PR-180	4.004,50	a	4.011,50	4.002	140,00	**810,00**		810,00		70,00		4.002	4004,50	a	4011,50	810,00	**648,00**	Compensação Lateral	0-200
2.4	PR-180	4.004,50	a	4.011,50	4.002	140,00	**3,57**		3,57		120,00		4.001	4000,00	a	4004,00	3,57	**2,85**	Aterro	0-200

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - PRIMEIRA ETAPA

Procedência do Material											Dist. de transporte		Destino do Material							OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)		até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)				
									1ª cat	Mat. Limp.	(m)	(m)					Aterro compensado	Aterro			
2.5	PR-180	4.004,50	a	4.011,50	4.002	140,00	**19,64**		19,64		205,00		4.003	4012,00	a	4024,50	19,64	**15,71**		Aterro	200-400
2.6	PR-180	4.004,50	a	4.011,50	4.002	140,00	**432,13**			432,13		2.440,00	BF-2	28905,00	a	28910,00				Bota-fora	2000-3000
2.7	PR-180	4.012,00	a	4.024,50	4.003	250,00	**1.365,73**		1.365,73		125,00		4.003	4012,00	a	4024,50	1.365,73	**1.092,58**		Compensação Lateral	0-200
2.8	PR-180	4.012,00	a	4.024,50	4.003	250,00	**784,51**			784,51		2.220,00	BF-2	28905,00	a	28910,00				Bota-fora	2000-3000
2.9	PR-180	4.025,00	a	4.034,38	4.004	187,63	**1.122,83**		1.122,83		93,81		4.004	4025,00	a	4034,38	1.122,83	**898,26**		Compensação Lateral	0-200
2.10	PR-180	4.025,00	a	4.034,38	4.004	187,63	**102,06**		102,06		228,81		4.003	4012,00	a	4024,50	102,06	**81,65**		Aterro	200-400
2.11	PR-180	4.025,00	a	4.034,38	4.004	187,63	**1.130,55**			1.130,55		1.980,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
2.12	PR-180	4.025,00	a	4.034,38	4.004	187,63	**17.377,17**		17.377,17			1.480,00	JE-1	28930,00	a	28935,00	17.377,17	**13.901,74**		Jazida de Espera Lado Esq.	1400-1600
3.1	RAMO 700	705,00	a	707,50	701	50,00	**202,03**		202,03		25,00		701	705,00	a	707,50	202,03	**161,63**		Compensação Lateral	0-200
3.2	RAMO 700	705,00	a	707,50	701	50,00	**154,82**			154,82		1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
3.3	RAMO 700	708,00	a	712,77	702	95,40	**592,87**		592,87		47,70		702	708,00	a	712,77	592,87	**474,30**		Compensação Lateral	0-200
3.4	RAMO 700	708,00	a	712,77	702	95,40	**102,44**		102,44		82,70		701	705,00	a	707,50	102,44	**81,96**		Aterro	0-200
3.5	RAMO 700	708,00	a	712,77	702	95,40	**502,73**			502,73		1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
3.6	RAMO 700	708,00	a	712,77	702	95,40	**4.428,86**		4.428,86			1.360,00	JE-1	28930,00	a	28935,00	4.428,86	**3.543,09**		Jazida de Espera Lado Esq.	1200-1400

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - PRIMEIRA ETAPA

Procedência do Material											Dist. de transporte		Destino do Material							OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)		até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)				
									1ª cat	Mat. Limp.	(m)	(m)					Aterro compensado	Aterro			
4.1	ROT. SUL	20,00	a	24,71	21	94,25	**782,03**		782,03		47,12		21	20,00	a	24,71	782,03	**625,62**		Compensação Lateral	0-200
4.2	ROT. SUL	20,00	a	24,71	21	94,25	**726,79**			726,79		1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
4.3	ROT. SUL	20,00	a	24,71	21	94,25	**11.600,07**		11.600,07			1.360,00	JE-1	28930,00	a	28935,00	11.600,07	**9.280,06**		Jazida de Espera Lado Esq.	1200-1400
5.1	RAMO 900	900,59	a	909,36	901	175,52	**987,31**		987,31		87,76		901	900,59	a	909,36	987,31	**789,85**		Compensação Lateral	0-200
5.2	RAMO 900	900,59	a	909,36	901	175,52	**1.012,15**			1.012,15		1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
5.3	RAMO 900	900,59	a	909,36	901	175,52	**14.222,99**		14.222,99			1.360,00	JE-1	28930,00	a	28935,00	14.222,99	**11.378,39**		Jazida de Espera Lado Esq.	1200-1400
6.1	RAMO 600	600,59	a	602,00	601	28,23	**158,78**		158,78		14,11		601	600,59	a	602,00	158,78	**127,03**		Compensação Lateral	0-200
6.2	RAMO 600	600,59	a	602,00	601	28,23	**12,97**		12,97		69,11		602	602,50	a	607,00	12,97	**10,38**		Aterro	0-200
6.3	RAMO 600	600,59	a	602,00	601	28,23	**88,54**			88,54		1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
6.4	RAMO 600	602,50	a	607,00	602	90,00	**481,22**		481,22		45,00		602	602,50	a	607,00	481,22	**384,98**		Compensação Lateral	0-200
6.5	RAMO 600	602,50	a	607,00	602	90,00	**317,69**			317,69		1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
7.1	ROT. NORTE	10,00	a	14,71	11	94,25	**779,43**		779,43		47,12		11	10,00	a	14,71	779,43	**623,54**		Compensação Lateral	0-200
7.2	ROT. NORTE	10,00	a	14,71	11	94,25	**257,81**		257,81		100,00		602	602,50	a	607,00	257,81	**206,25**		Aterro	0-200
7.3	ROT. NORTE	10,00	a	14,71	11	94,25	**525,78**			525,78		1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - PRIMEIRA ETAPA

Procedência do Material												Dist. de transporte		Destino do Material							OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)			até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)				
									1ª cat	Mat. Limp.		(m)	(m)					Aterro compensado	Aterro			
7.4	ROT. NORTE	10,00	a	14,71	11	94,25	**3.351,80**		3.351,80				1.450,00	JD-1	28925,00	a	28930,00	3.351,80	**2.681,44**		Jazida de Espera Lado Dir.	1400-1600
8.1	RAMO 800	801,00	a	802,00	801	20,00	**115,00**		115,00			10,00		801	801,00	a	802,00	115,00	**92,00**		Compensação Lateral	0-200
8.2	RAMO 800	801,00	a	802,00	801	20,00	**63,92**			63,92			1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
8.3	RAMO 800	802,50	a	809,80	802	146,00	**892,98**		892,98			73,00		802	802,50	a	809,80	892,98	**714,38**		Compensação Lateral	0-200
8.4	RAMO 800	802,50	a	809,80	802	146,00	**17,79**		17,79			93,00		801	801,00	a	802,00	17,79	**14,23**		Aterro	0-200
8.5	RAMO 800	802,50	a	809,80	802	146,00	**770,66**			770,66			1.860,00	BF-2	28905,00	a	28910,00				Bota-fora	1600-2000
8.6	RAMO 800	802,50	a	809,80	802	146,00	**7.875,02**		7.875,02				1.450,00	JD-1	28925,00	a	28930,00	7.875,02	**6.300,01**		Jazida de Espera Lado Dir.	1400-1600
9.1	MARG 5000	5.007,61	a	5.034,74	5.001	542,63	**3.582,10**		3.582,10			271,31		5.001	5007,61	a	5034,74	3.582,10	**2.865,68**		Compensação Lateral	0-200
9.2	MARG 5000	5.007,61	a	5.034,74	5.001	542,63	**1.605,40**			1.605,40			1.460,00	BF-2	28905,00	a	28910,00				Bota-fora	1400-1600
9.3	MARG 5000	5.007,61	a	5.034,74	5.001	542,63	**923,87**		923,87				1.050,00	JD-1	28925,00	a	28930,00	923,87	**739,10**		Jazida de Espera Lado Dir.	1000-1200
10.1	PISTA DIR.	29.009,50	a	29.014,50	104	100,00	**1.083,44**		1.083,44			50,00		104	29009,50	a	29014,50	1.083,44	**866,75**		Compensação Lateral	0-200
10.2	PISTA DIR.	29.009,50	a	29.014,50	104	100,00	**424,38**			424,38			2.090,00	BF-2	28905,00	a	28910,00				Bota-fora	2000-3000
10.3	PISTA DIR.	29.009,50	a	29.014,50	104	100,00	**82,98**		82,98				1.690,00	JD-1	28925,00	a	28930,00	82,98	**66,39**		Jazida de Espera Lado Dir.	1600-2000
10.4	PISTA DIR.	28.945,00	a	28.991,00	103	920,00	**8.005,53**		8.005,53			460,00		103	28945,00	a	28991,00	8.005,53	**6.404,43**		Compensação Lateral	400-600

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - PRIMEIRA ETAPA

Procedência do Material										Dist. de transporte		Destino do Material						OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)		até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)		
									1ª cat	Mat. Limp.	(m)	(m)					Aterro compensado	Aterro	
10.5	PISTA DIR.	28.945,00	a	28.991,00	103	920,00	**75,81**		75,81		560,00		31	36,52	a	40,56	75,81	**60,65**	Aterro	400-600
10.6	PISTA DIR.	28.945,00	a	28.991,00	103	920,00	**2.867,20**			2.867,20		1.210,00	BF-2	28905,00	a	28910,00			Bota-fora	1200-1400
10.7	PISTA DIR.	28.945,00	a	28.991,00	103	920,00	**597,31**		597,31		810,00		JD-1	28925,00	a	28930,00	597,31	**477,85**	Jazida de Espera Lado Dir.	800-1000
10.8	RET. KM 579	36,52	a	40,56	31	80,92	**525,76**		525,76		40,46		31	36,52	a	40,56	525,76	**420,61**	Compensação Lateral	0-200
10.9	RET. KM 579	36,52	a	40,56	31	80,92	**259,44**			259,44	650,00		BF-2	28905,00	a	28910,00			Bota-fora	600-800
11.1	AGULHA 1000	1.000,00	a	1.003,36	1.001	67,23	**23,51**		23,51		33,62		1.001	1000,00	a	1003,36	23,51	**18,81**	Compensação Lateral	0-200
11.2	AGULHA 1000	1.000,00	a	1.003,36	1.001	67,23	**115,28**			115,28	470,00		BF-2	28905,00	a	28910,00			Bota-fora	400-600
11.3	JAZIDA ESQ.	28.930,00	a	28.935,00	JE-1	100,00		**117,98**	117,98		30,00		1.001	1000,00	a	1003,36	117,98	**94,38**	Aterro	0-200
12.1	MARG 1100	1.104,79	a	1.133,02	1.101	564,57	**2.655,94**		2.655,94		282,28		1.101	1104,79	a	1133,02	2.655,94	**2.124,75**	Compensação Lateral	200-400
12.2	MARG 1100	1.104,79	a	1.133,02	1.101	564,57	**1.678,29**			1.678,29	50,00		BF-2	28905,00	a	28910,00			Bota-fora	0-200
12.3	JAZIDA ESQ.	28.930,00	a	28.935,00	JE-1	100,00		**5.972,50**	5.972,50		450,00		1.101	1104,79	a	1133,02	5.972,50	**4.778,00**	Aterro	400-600
13.1	RAMO 1200	1.202,04	a	1.212,00	1.201	199,14	**287,84**		287,84		99,57		1.201	1202,04	a	1212,00	287,84	**230,27**	Compensação Lateral	0-200
13.2	RAMO 1200	1.202,04	a	1.212,00	1.201	199,14	**313,27**			313,27	190,00		BF-2	28905,00	a	28910,00			Bota-fora	0-200
13.3	RAMO 1200	28.930,00	a	28.935,00	JE-1	100,00		**155,63**	155,63		200,00		1.201	1202,04	a	1212,00	155,63	**124,50**	Aterro	0-200

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - PRIMEIRA ETAPA

Procedência do Material											Dist. de transporte		Destino do Material						OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)		até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)			
									1ª cat	Mat. Limp.	(m)	(m)					Aterro compensado	Aterro		
14.1	PISTA ESQ.	28.816,00	a	28.959,00	201	2860,00	**11.674,73**		11.674,73			1.430,00	201	28816,00	a	28959,00	11.674,73	**9.339,78**	Compensação Lateral	1400-1600
14.2	PISTA ESQ.	28.816,00	a	28.959,00	201	2860,00	**9.961,41**			9.961,41	400,00		BF-2	28905,00	a	28910,00			Bota-fora	400-600
14.3	JAZIDA ESQ.	28.930,00	a	28.935,00	JE-1	100,00		**33.934,55**	33.934,55		900,00		201	28816,00	a	28959,00	33.934,55	**27.147,64**	Aterro	800-1000
15.1	MARG 6000	6.002,50	a	6.059,75	6.001	1145,00	**15.834,63**		15.834,63		572,50		6.001	6002,50	a	6059,75	15.834,63	**12.667,70**	Compensação Lateral	400-600
15.2	MARG 6000	6.002,50	a	6.059,75	6.001	1145,00	**4.399,27**			4.399,27		2.350,00	BF-2	28905,00	a	28910,00			Bota-fora	2000-3000
15.3	MARG 6000	6.060,00	a	6.081,50	6.002	430,00	**1.716,57**		1.716,57		215,00		6.002	6060,00	a	6081,50	1.716,57	**1.373,25**	Compensação Lateral	200-400
15.4	MARG 6000	6.060,00	a	6.081,50	6.002	430,00	**298,76**		298,76		792,50		6.001	6002,50	a	6059,75	298,76	**239,01**	Aterro	600-800
15.5	MARG 6000	6.060,00	a	6.081,50	6.002	430,00	**2.974,75**		2.974,75			1.160,00	2.101	2100,00	a	2105,13	2.974,75	**2.379,80**	Aterro	1000-1200
15.6	MARG 6000	6.060,00	a	6.081,50	6.002	430,00	**1.284,10**			1.284,10		3.150,00	BF-2	28905,00	a	28910,00			Bota-fora	3000-4000
15.7	MARG 6000	6.060,00	a	6.081,50	6.002	430,00	**4.369,68**		4.369,68			3.650,00	JE-1	28930,00	a	28935,00	4.369,68	**3.495,74**	Jazida de Espera Lado Esq.	3000-4000
16.1	RAMO 2100	2.100,00	a	2.105,13	2.101	102,57	**388,45**			388,45		1.990,00	BF-2	28905,00	a	28910,00			Bota-fora	1600-2000
17.1	RAMO 1300	1.300,00	a	1.310,12	1.301	202,35	**591,66**		591,66		101,18		1.301	1300,00	a	1310,12	591,66	**473,33**	Compensação Lateral	0-200
17.2	RAMO 1300	1.300,00	a	1.310,12	1.301	202,35	**327,50**			327,50	510,00		BF-2	28905,00	a	28910,00			Bota-fora	400-600
17.3	RAMO 1300	1.310,50	a	1.312,61	1.302	42,30	**452,03**		452,03		21,15		1.302	1310,50	a	1312,61	452,03	**361,63**	Compensação Lateral	0-200

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - PRIMEIRA ETAPA

Procedência do Material										Dist. de transporte		Destino do Material						OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)		até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)		
									1ª cat	Mat. Limp.	(m)	(m)					Aterro compensado	Aterro	
17.4	RAMO 1300	1.310,50	a	1.312,61	1.302	42,30	**9,60**		9,60		129,97		1.301	1300,00	a	1310,12	9,60	**7,68**	Aterro	0-200
17.6	RAMO 1300	1.310,50	a	1.312,61	1.302	42,30	**132,53**		132,53		580,00		1.601	1600,00	a	1602,64	132,53	**106,02**	Aterro	400-600
17.5	RAMO 1300	1.310,50	a	1.312,61	1.302	42,30	**39,50**		39,50			1.560,00	102	28768,00	a	28832,00	39,50	**31,60**	Aterro	1400-1600
17.6	RAMO 1300	1.310,50	a	1.312,61	1.302	42,30	**201,88**			201,88	590,00		BF-2	28905,00	a	28910,00			Bota-fora	400-600
18.1	MARG 50	0,50	a	56,00	51	1110,00	**6.185,58**		6.185,58		555,00		51	0,50	a	56,00	6.185,58	**4.948,46**	Compensação Lateral	400-600
18.2	MARG 50	0,50	a	56,00	51	1110,00	**617,53**		617,53		900,00		102	28768,00	a	28832,00	617,53	**494,02**	Aterro	800-1000
18.3	MARG 50	0,50	a	56,00	51	1110,00	**3.361,53**			3.361,53		1.250,00	BF-2	28905,00	a	28910,00			Bota-fora	1200-1400
19.1	RAMO 1600	1.600,00	a	1.602,64	1.601	52,83	**122,54**		122,54		26,41		1.601	1600,00	a	1602,64	122,54	**98,03**	Compensação Lateral	0-200
19.2	RAMO 1600	1.600,00	a	1.602,64	1.601	52,83	**142,69**			142,69		1.810,00	BF-2	28905,00	a	28910,00			Bota-fora	1600-2000
20.1	PISTA DIR.	28.768,00	a	28.832,00	102	1280,00	**9.105,69**		9.105,69		640,00		102	28768,00	a	28832,00	9.105,69	**7.284,55**	Compensação Lateral	600-800
20.2	PISTA DIR.	28.768,00	a	28.832,00	102	1280,00	**3.720,67**			3.720,67		2.150,00	BF-2	28905,00	a	28910,00			Bota-fora	2000-3000
20.3	JAZIDA DIR.	28.925,00	a	28.930,00	JD-1	100,00		**785,24**	785,24			2.550,00	102	28768,00	a	28832,00	785,24	**628,19**	Aterro	2000-3000
21.1	PISTA ESQ.	28.726,50	a	28.748,00	101	430,00	**2.318,94**		2.318,94		215,00		101	28726,50	a	28748,00	2.318,94	**1.855,16**	Compensação Lateral	200-400
21.2	PISTA ESQ.	28.726,50	a	28.748,00	101	430,00	**453,28**		453,28		255,00		2.301	2309,17	a	2345,71	453,28	**362,63**	Aterro	200-400

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - PRIMEIRA ETAPA

Procedência do Material												Dist. de transporte		Destino do Material						OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)			até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)			
									1ª cat	Mat. Limp.		(m)	(m)					Aterro compensado	Aterro		
21.3	PISTA ESQ.	28.726,50	a	28.748,00	101	430,00	**968,29**			968,29			3.405,00	BF-2	28905,00	a	28910,00			Bota-fora	3000-4000
22.1	MARG 2300	2.309,17	a	2.345,71	2.301	730,85	**4.576,91**		4.576,91			365,42		2.301	2309,17	a	2345,71	4.576,91	**3.661,53**	Compensação Lateral	200-400
22.2	MARG 2300	2.309,17	a	2.345,71	2.301	730,85	**2.496,93**			2.496,93			3.150,00	BF-2	28905,00	a	28910,00			Bota-fora	3000-4000
22.3	JAZIDA DIR.	28.925,00	a	28.930,00	JD-1	100,00		**1.754,84**	1.754,84				3.550,00	2.301	2309,17	a	2345,71	1.754,84	**1.403,87**	Aterro	3000-4000
23.1	RAMO 2600	2.601,29	a	2.607,00	2.601	114,20	**259,31**		259,31			57,10		2.601	2601,29	a	2607,00	259,31	**207,45**	Compensação Lateral	0-200
23.2	RAMO 2600	2.601,29	a	2.607,00	2.601	114,20	**161,75**			161,75			3.230,00	BF-2	28905,00	a	28910,00			Bota-fora	3000-4000
23.3	JAZIDA DIR.	28.925,00	a	28.930,00	JD-1	100,00		**21,83**	21,83			410,00		2.601	2601,29	a	2607,00	21,83	**17,46**	Aterro	400-600
TOTAL (m³)							**207.871,45**	**42.742,57**	**204.536,00**	**46.078,02**								**204.536,00**	**163.628,80**		

1.5.2 Etapa 2 – Distribuição de Volumes

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - SEGUNDA ETAPA																					
Procedência do Material										Dist. de transporte		Destino do Material							OBSERVAÇÕES	DMT	
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)		até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)				
									1ª cat	Mat. Limp.	(m)	(m)					Aterro compensado	Aterro			
1.1	OAEkm580	4.500,00	a	4.503,38	4.501	67,66	**399,52**		399,52		33,83		4.501	4500,00	a	4503,38	399,52	**319,61**	Compensação Lateral	0-200	
1.2	OAE km 580	4.500,00	a	4.503,38	4.501	67,66	**4.723,02**		4.723,02		10,00		107	28992,00	a	29009,00	4.723,02	**3.778,42**	Aterro	0-200	
1.3	OAE km 580	4.500,00	a	4.503,38	4.501	67,66	**180,62**			180,62		1.850,00	BF-2	28905,00	a	28910,00			Bota-fora	1600-2000	
1.4	OAE km 580	4.500,00	a	4.503,38	4.501	67,66	**1.818,15**		1.818,15			1.450,00	JD-1	28925,00	a	28930,00	1.818,15	**1.454,52**	Jazida de Espera Lado Dir.	1400-1600	
2.1	PISTA DIR.	28.992,00	a	29.009,00	107	340,00	**2.119,77**		2.119,77		170,00		107	28992,00	a	29009,00	2.119,77	**1.695,82**	Compensação Lateral	0-200	
2.2	PISTA DIR.	28.992,00	a	29.009,00	107	340,00	**1.098,54**			1.098,54		1.860,00	BF-2	28905,00	a	28910,00			Bota-fora	1600-2000	
3.1	PISTA ESQ.	28.998,94	a	29.003,18	204	84,79	**545,71**		545,71		42,40		204	28998,94	a	29003,18	545,71	**436,56**	Compensação Lateral	0-200	
3.3	PISTA ESQ.	28.998,94	a	29.003,18	204	84,79	**253,23**			253,23		1.871,12	BF-2	28905,00	a	28910,00			Bota-fora	1600-2000	
3.2	PISTA ESQ.	28.998,94	a	29.003,18	204	84,79	**148,06**		148,06			1.471,12	JD-1	28925,00	a	28930,00	148,06	**118,45**	Jazida de Espera Lado Dir.	1400-1600	
4.1	PISTA DIR.	28.933,00	a	28.944,50	106	230,00	**1.601,61**		1.601,61		115,00		106	28933,00	a	28944,50	1.601,61	**1.281,28**	Compensação Lateral	0-200	
4.2	PISTA DIR.	28.933,00	a	28.944,50	106	230,00	**726,10**			726,10	625,00		BF-2	28905,00	a	28910,00			Bota-fora	400-600	
4.3	PISTA DIR.	28.933,00	a	28.944,50	106	230,00	**670,03**		670,03		225,00		JD-1	28925,00	a	28930,00	670,03	**536,03**	Jazida de Espera Lado Dir.	200-400	
5.1	RAMO1400	1.407,50	a	1.408,04	1.402	10,76	**8,32**		8,32		5,38		1.402	1407,50	a	1408,04	8,32	**6,66**	Compensação Lateral	0-200	

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - SEGUNDA ETAPA

Procedência do Material												Dist. de transporte		Destino do Material								OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)			até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)					
									1ª cat	Mat. Limp.		(m)	(m)					Aterro compensado	Aterro				
5.2	RAMO 1400	1.407,50	a	1.408,04	1.402	10,76	**4,56**		4,56			85,38		1.401	1400,00	a	1407,00	4,56	**3,65**			Aterro	0-200
5.3	RAMO 1400	1.407,50	a	1.408,04	1.402	10,76	**16,47**			16,47		790,00		BF-2	28905,00	a	28910,00					Bota-fora	600-800
5.4	RAMO 1400	1.407,50	a	1.408,04	1.402	10,76	**12,32**		12,32				1.190,00	JD-1	28925,00	a	28930,00	12,32	**9,85**			Jazida de Espera Lado Dir.	1000-1200
5.5	RAMO 1400	1.400,00	a	1.407,00	1.401	140,00	**386,10**		386,10			70,00		1.401	1400,00	a	1407,00	386,10	**308,88**			Compensação Lateral	0-200
5.6	RAMO 1400	1.400,00	a	1.407,00	1.401	140,00	**235,64**			235,64		790,00		BF-2	28905,00	a	28910,00					Bota-fora	600-800
6.1	RAMO 1700	1.705,50	a	1.710,90	1.702	108,03	**394,26**		394,26			54,02		1.702	1705,50	a	1710,90	394,26	**315,40**			Compensação Lateral	0-200
6.2	RAMO 1700	1.705,50	a	1.710,90	1.702	108,03	**2,16**		2,16			114,02		1.701	1700,00	a	1705,00	2,16	**1,73**			Aterro	0-200
6.3	RAMO 1700	1.705,50	a	1.710,90	1.702	108,03	**220,41**			220,41			1.550,00	BF-2	28905,00	a	28910,00					Bota-fora	1400-1600
6.4	RAMO 1700	1.705,50	a	1.710,90	1.702	108,03	**17,41**		17,41				1.950,00	JD-1	28925,00	a	28930,00	17,41	**13,93**			Jazida de Espera Lado Dir.	1600-2000
6.5	RAMO 1700	1.700,00	a	1.705,00	1.701	100,00	**173,29**		173,29			50,00		1.701	1700,00	a	1705,00	173,29	**138,63**			Compensação Lateral	0-200
6.6	RAMO 1700	1.700,00	a	1.705,00	1.701	100,00	**114,79**			114,79			1.550,00	BF-2	28905,00	a	28910,00					Bota-fora	1400-1600
7.1	PISTA ESQ.	28.788,00	a	28.815,50	203	550,00	**3.425,72**		3.425,72			275,00		203	28788,00	a	28815,50	3.425,72	**2.740,58**			Compensação Lateral	200-400
7.2	PISTA ESQ.	28.788,00	a	28.815,50	203	550,00	**31,19**		31,19			455,00		2.201	2200,00	a	2205,70	31,19	**24,95**			Aterro	2000-3000
7.3	PISTA ESQ.	28.788,00	a	28.815,50	203	550,00	**2.167,94**			2.167,94			2.115,00	BF-2	28905,00	a	28910,00					Bota-fora	2000-3000

QUADRO DE ORIENTAÇÃO DE TERRAPLENAGEM - SEGUNDA ETAPA

Procedência do Material											Dist. de transporte		Destino do Material						OBSERVAÇÕES	DMT
Nº	Local	De estaca a estaca			Corte nº	DIST.	Escav (1)	Empres (2)	Volumes (m³)		até 1km	>1 km	Aterro nº	Aterro entre estacas			Volumes (m³)			
									1ª cat	Mat. Limp.	(m)	(m)					Aterro compensado	Aterro		
7.4	PISTA ESQ.	28.788,00	a	28.815,50	203	550,00	**1.050,79**		1.050,79		900,00		202	28746,50	a	28767,00	1.050,79	**840,63**	Aterro	800-1000
8.1	RAMO 2200	2.200,00	a	2.205,70	2.201	114,08	**243,97**		243,97		57,04		2.201	2200,00	a	2205,70	243,97	**195,18**	Compensação Lateral	0-200
8.2	RAMO 2200	2.200,00	a	2.205,70	2.201	114,08	**169,20**			169,20		2.570,00	BF-2	28905,00	a	28910,00			Bota-fora	2000-3000
9.1	OAE km 575	2.400,52	a	2.402,64	2.401	42,32	**364,09**		364,09		21,16		2.401	2400,52	a	2402,64	364,09	**291,28**	Compensação Lateral	0-200
9.2	OAE km 575	2.400,52	a	2.402,64	2.401	42,32	**174,84**			174,84		2.970,00	BF-2	28905,00	a	28910,00			Bota-fora	2000-3000
9.3	OAE km 575	2.400,52	a	2.402,64	2.401	42,32	**1.744,88**		1.744,88		45,00		202	28746,50	a	28767,00	1.744,88	**1.395,91**	Aterro	0-200
10.1	PISTA ESQ.	28.746,50	a	28.767,00	202	410,00	**822,35**		822,35		205,00		202	28746,50	a	28767,00	822,35	**657,88**	Compensação Lateral	200-400
10.2	PISTA ESQ.	28.746,50	a	28.767,00	202	410,00	**1.495,51**			1.495,51		3.015,00	BF-2	28905,00	a	28910,00			Bota-fora	3000-4000
10.3	JAZIDA DIR.	28.925,00	a	28.930,00	JD-1	100,00		**1.472,93**	1.472,93			3.415,00	202	28746,50	a	28767,00	1.472,93	**1.178,34**	Aterro	3000-4000
11.1	PISTA DIR.	28.749,00	a	28.767,00	105	360,00	**334,11**		334,11		180,00		105	28749,00	a	28767,00	334,11	**267,28**	Compensação Lateral	0-200
11.2	PISTA DIR.	28.749,00	a	28.767,00	105	360,00	**1.150,72**			1.150,72		2.990,00	BF-2	28905,00	a	28910,00			Bota-fora	2000-3000
11.3	JAZIDA DIR.	28.925,00	a	28.930,00	JD-1	100,00		**11.462,11**	11.462,11			3.390,00	105	28749,00	a	28767,00	11.462,11	**9.169,69**	Aterro	3000-4000
11.4	JAZIDA ESQ.	28.930,00	a	28.935,00	JE-1	100,00		**3.814,28**	3.814,28			3.490,00	105	28749,00	a	28767,00	3.814,28	**3.051,43**	Aterro	3000-4000
TOTAL (m³)							**29.045,43**	**16.749,33**	**37.790,73**	**8.004,03**							**37.790,73**	**30.232,58**		

Apresenta-se a seguir os volumes de escavação, aterro e limpeza de acordo com a DMT, compactação e localização dos mesmos:

Tabela 73 – Volumes totais de escavação por DMT

ESCAVAÇÃO DE MATERIAL (m³)			
DMT	PRIMEIRA ETAPA	SEGUNDA ETAPA	TOTAL
	1ª CAT	1ª CAT	1ª CAT
0-200	22.491,67	13.045,37	35.537,04
200-400	16.070,63	4.918,10	20.988,74
400-600	47.252,03	726,10	47.978,14
600-800	19.612,67	252,11	19.864,78
800-1000	35.149,38	1.050,79	36.200,17
1000-1200	3.898,62	12,32	3.910,94
1200-1400	36.480,65	-	36.480,65
1400-1600	41.923,62	2.301,42	44.225,05
1600-2000	5.907,75	1.549,80	7.457,54
2000-3000	10.791,39	3.693,90	14.485,28
3000-4000	11.035,60	18.244,84	29.280,44
4000-5000	-	-	-
5000-6000	-	-	-
6000-8000	-	-	-
TOTAL	250.614,02	45.794,76	296.408,77

Tabela 74 – Volumes totais de aterro por compactação

COMPACTAÇÃO DE MATERIAL (m³)			
MATERIAL	PRIMEIRA ETAPA	SEGUNDA ETAPA	TOTAL
95% PN	41.092,93	16.448,03	**57.540,96**
100% PI	68.240,42	11.651,77	**79.892,18**
JAZIDAS (95% PN)	*54.295,46*	*2.132,78*	***56.428,24***
TOTAL ATERRO.	**163.628,80**	**30.232,58**	**193.861,38**
TOTAL ATERRO HOM.	**204.536,00**	**37.790,73**	**242.326,73**

Tabela 75 – Volumes totais de limpeza

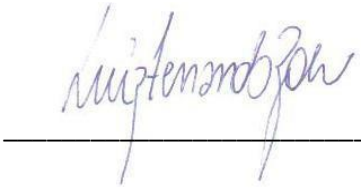
LIMPEZA			
MATERIAL	PRIMEIRA ETAPA	SEGUNDA ETAPA	TOTAL
Área de Limpeza (m²)	230.390,10	40.020,14	**270.410,24**
Espalhamento e Conf. Bota-fora (m³)	46.078,02	8.004,03	**54.082,05**

TERMO DE ENCERRAMENTO

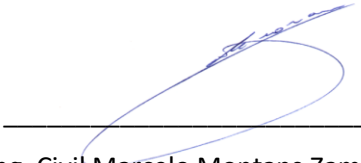
Este é o Termo de Encerramento do Volume 3C – Notas de serviço e memória de cálculo de volumes terraplenagem referente à implantação da duplicação da BR-277/PR entre os km 574+470m e km 580+280m e à implantação da marginal esquerda entre os km 581+740m ao km 583+300m, no município de Cascavel.

RODOVIA:	BR-277/PR
MUNICÍPIO:	Cascavel
TRECHO:	Acesso São João do Oeste – Entr. BR-369/467 (Cascavel)
SEGMENTO:	km 574+470m a km 580+280m (duplicação)
	km 581+740m a km 583+300m (marginal esquerda)
CÓD. SNV:	277BPR0295 e 277BPR00300
EXTENSÃO:	5,81 km (duplicação) + 1,56 km (marginal esquerda)
LOTE:	06

Este Relatório é composto de 283 (Duzentos e oitenta e três) folhas em ordem sequencial crescente.



Eng. Civil Luiz Fernando Cirino Zocco
Crea-PR 48.415/D



Eng. Civil Marcelo Montans Zamarian
Crea-PR 60.055/D