



# GOVERNO DO ESTADO DE RONDÔNIA

DEPARTAMENTO DE ESTRADAS DE RODAGEM, INFRAESTRUTURA E SERVIÇOS PÚBLICOS - DER/RO  
COORDENADORIA DE PLANEJAMENTO, PROJETOS E ORÇAMENTOS DE OBRAS

## REVISÃO, ADEQUAÇÃO E ATUALIZAÇÃO DE PROJETO EXECUTIVO DE ENGENHARIA

**Rodovia** : RO-010

**Trecho** : Estaca 136+0,00 (Urupá) – Estaca 2284+0,00 Rua Amapá  
(Mirante da Serra)

**Segmento** : Estaca 136+0,00 à Estaca 1200+0,00

**Extensão** : 21,28 km

**Lote** : 01

## VOLUME 1A – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES

MARÇO/2023

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COORDENADORIA DE PLANEJAMENTO, PROJETOS E ORÇAMENTOS DE OBRAS

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### Elaboração:



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DOS SANTOS  
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7191

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Date: 2023.05.03  
15:16:23 -03'00'

**MARÇO/2023**



## 1.0 - SUMÁRIO

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## SUMÁRIO

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## 2.0 - APRESENTAÇÃO

A empresa **Convexa – Projetos e Serviços de Engenharia Ltda.**, apresenta ao **Departamento Estadual de Estradas de Rodagem, Infraestrutura e Serviços Públicos - DER/RO**, o **Volume 1A – Notas de Serviço e Cálculo de Volumes**, referente a Revisão, Adequação e Atualização de Projeto Executivo de Engenharia para Pavimentação da Rodovia **RO-010**, Trecho: Estaca 136+0,00 (Urupá) - Estaca 2284+0,00 Rua Amapá (Mirante da Serra), Segmento: Estaca 136+0,00 à Estaca 1200+0,00, Extensão: 21,28 km, Lote: 01.

Neste volume são apresentados as Notas de Serviço e o Cálculo de Volumes, necessários a execução da obra.

O projeto foi elaborado a partir das normas e instruções do DER / RO em conformidade com o Contrato nº **051/2021/FITHA-RO**.

#### **Elementos Contratuais:**

|   |   |
|---|---|
| <b>Tomada de Preços Nº</b>                  | <b>004/2020/SUPEL-RO</b>                                    |
| <b>Instrumento Contratual Nº</b>            | <b>051/2021/FITHA-RO</b>                                    |
| <b>Data de Assinatura do Contrato</b>       | <b>08/09/2021</b>   |
| <b>Processo Administrativo Nº</b>           | <b>0009.558309/2019-22</b>                                  |
| <b>Data da Ordem de Início dos Serviços</b> | <b>12/11/2021</b>   |
| <b>Responsável Técnico</b>                  | <b>Engº Devarley João dos Santos Souza – RNP 1217246070</b> |
| <b>ART Nº</b>                               | <b>2320218500087619</b>                                     |
| <b>Prazo de Execução</b>                    | <b>120 dias consecutivos</b>                                |

O projeto ao qual pertence este volume é constituído por 8 (oito) volumes descritos a seguir:

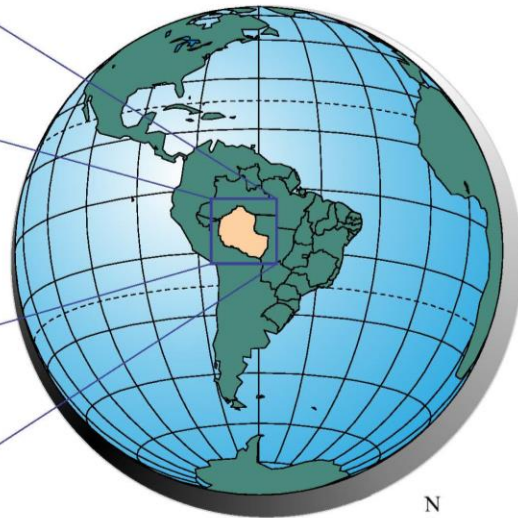
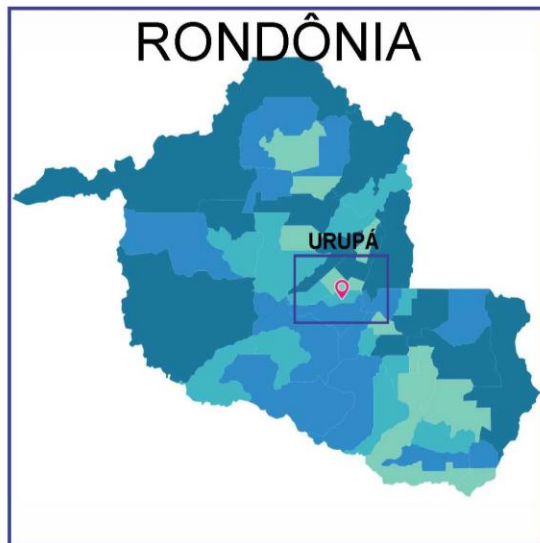
- **Volume 1 – Relatório do Projeto e Documentos para Concorrência;**
- **Volume 1A – Notas de Serviço e Cálculo de Volumes;**
- **Volume 1B – Estudos Geotécnicos;**
- **Volume 1D – Plano de Controle Ambiental;**
- **Volume 2 – Projeto de Execução;**

- 
- **Volume 2.1 – Projeto de Execução (Seções Transversais);**
  - **Volume 3 – Memória Justificativa;**
  - **Volume 4 – Orçamento, Plano de Execução e Especificações de Serviços.**



## 3.0 - MAPA DE SITUAÇÃO

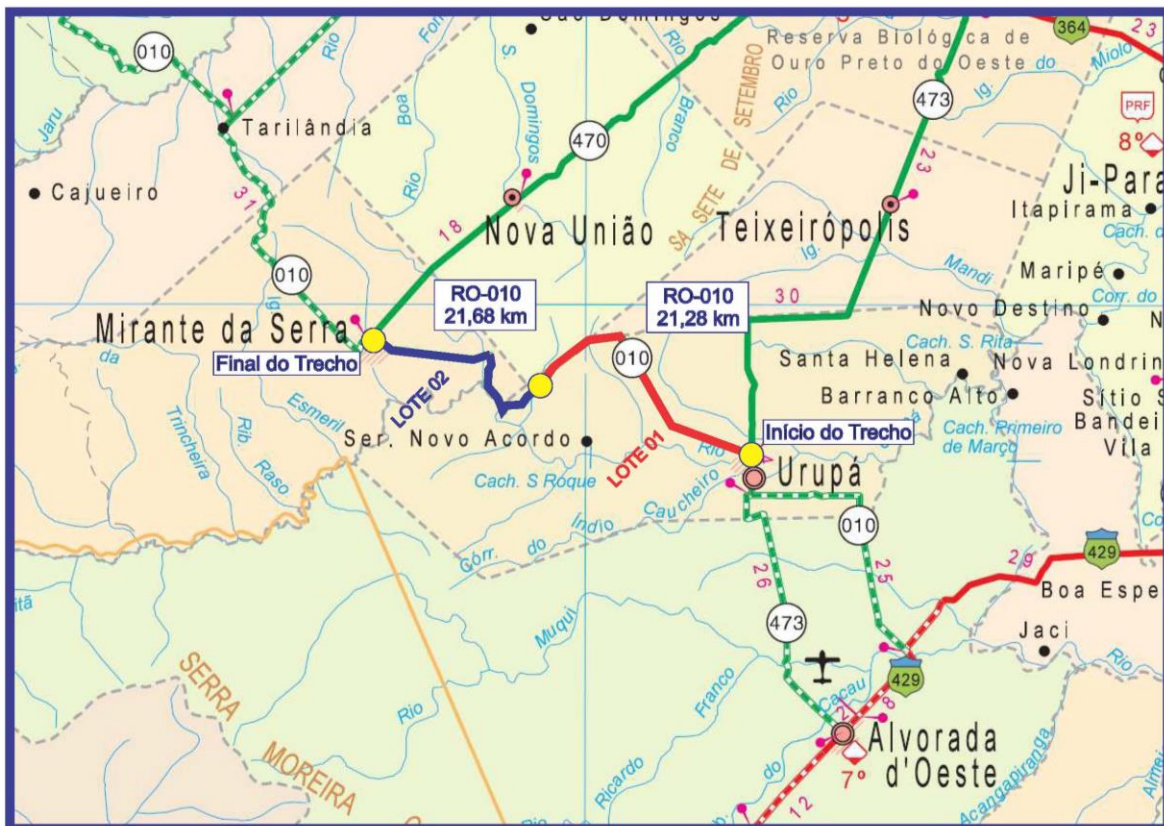




**Coordenadas**

Início do Trecho: Estaca 136+0,00 - 11° 06' 53.02" S / 62° 23' 12.86" W

Final do Trecho: Estaca 2284+0,00 - 11° 02' 02.52" S / 62° 39' 55.67" W



|          |   |
|----------|---|
| Rodovia  | : RO-010  |
| Trecho   | : Estaca 136+0,00 (Urupá) - Estaca 2284+0,00 Rua Amapá (Mirante da Serra) |
| Segmento | : Estaca 136+0,00 à Estaca 1200+0,00                                      |
| Extensão | : 21,28 km  |
| Lote     | : 01  |

Revisão, Adequação e Atualização  
de Projeto Executivo de Engenharia

MAPA DE SITUAÇÃO



## 4.0 - NOTAS DE SERVIÇO DE TERRAPLENAGEM

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo  |          |            |  |            |          |          |  |            |              |              |               | Lado Direito |          |          |  |            |          |          |  |            |          |          |  |
|--|----------|------------|--|------------|----------|----------|--|------------|--------------|--------------|---------------|--------------|----------|----------|--|------------|----------|----------|--|------------|----------|----------|--|
| Offset   |          |            |  | Bordo      |          |          |  | Estaca     |              |              |               | Eixo         |          |          |  | Bordo      |          |          |  | Banqueta   |          |          |  |
| Afast. (m)   | Cota (m) | Altura (m) |  | Afast. (m) | Cota (m) | Ind. (%) |  | Afast. (m) | Cota Terreno | Cota Projeto | Cota Vermelha | Afast. (m)   | Cota (m) | Ind. (%) |  | Afast. (m) | Cota (m) | Ind. (%) |  | Afast. (m) | Cota (m) | Ind. (%) |  |
| Entre as estacas 0+0,00 e 136+0,00, o segmento encontra-se pavimentado, Travessia Urbana de Urupá. |          |            |  |            |          |          |  |            |              |              |               |              |          |          |  |            |          |          |  |            |          |          |  |
| 6,283  | 210,098  | 0,383      |  | 5,900      | 209,715  | -3,00    |  | 136+0,00   | 210,262      | 209,892      | -0,370        | 5,900        | 209,715  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,124  | 209,724  | -0,149     |  | 5,900      | 209,873  | -3,00    |  | 137+0,00   | 209,938      | 210,050      | 0,112         | 5,900        | 209,873  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,661  | 209,524  | -0,507     |  | 5,900      | 210,031  | -3,00    |  | 138+0,00   | 209,684      | 210,208      | 0,524         | 5,900        | 210,031  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,073  | 209,408  | -0,782     |  | 5,900      | 210,190  | -3,00    |  | 139+0,00   | 209,681      | 210,367      | 0,686         | 5,900        | 210,190  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,814  | 209,739  | -0,609     |  | 5,900      | 210,348  | -3,00    |  | 140+0,00   | 209,741      | 210,525      | 0,784         | 5,900        | 210,348  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,162  | 209,665  | -0,841     |  | 5,900      | 210,506  | -3,00    |  | 141+0,00   | 209,863      | 210,683      | 0,820         | 5,900        | 210,506  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,001  | 209,931  | -0,734     |  | 5,900      | 210,665  | -3,00    |  | 142+0,00   | 210,842      | 210,952      | 0,642         | 5,900        | 210,665  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,914  | 210,098  | -0,677     |  | 5,900      | 210,775  | -3,00    |  | 143+0,00   | 210,638      | 210,971      | 0,314         | 5,900        | 210,775  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,077  | 210,676  | -0,118     |  | 5,900      | 210,794  | -3,00    |  | 143+12,580 | 210,971      | 210,978      | -0,007        | 5,900        | 210,794  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,016  | 210,903  | 0,116      |  | 5,900      | 210,787  | -3,00    |  | 144+0,00   | 211,172      | 210,964      | -0,208        | 5,900        | 210,787  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,772  | 211,574  | 0,872      |  | 5,900      | 210,702  | -3,00    |  | 145+0,00   | 210,879      | 211,935      | -1,056        | 5,900        | 210,702  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,493  | 212,113  | 1,592      |  | 5,900      | 210,521  | -3,00    |  | 146+0,00   | 210,698      | 212,662      | -1,964        | 5,900        | 210,521  | -3,00    |  |            |          |          |  |            |          |          |  |
| 8,271  | 212,612  | 2,370      |  | 5,900      | 210,242  | -3,00    |  | 147+0,00   | 210,419      | 212,857      | -2,438        | 5,900        | 210,242  | -3,00    |  |            |          |          |  |            |          |          |  |
| 8,359  | 212,297  | 2,459      |  | 5,900      | 209,838  | -3,00    |  | 148+0,00   | 210,015      | 212,375      | -2,360        | 5,900        | 209,838  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,645  | 211,027  | 1,745      |  | 5,900      | 209,282  | -3,00    |  | 149+0,00   | 209,459      | 211,214      | -1,755        | 5,900        | 209,282  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,903  | 209,578  | 1,003      |  | 5,900      | 208,575  | -3,00    |  | 150+0,00   | 208,752      | 209,745      | -0,993        | 5,900        | 208,575  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,908  | 208,724  | 1,008      |  | 5,900      | 207,716  | -3,00    |  | 151+0,00   | 207,893      | 208,250      | -0,357        | 5,900        | 207,716  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,845  | 207,726  | 0,945      |  | 5,900      | 206,781  | -3,00    |  | 152+0,00   | 206,958      | 206,934      | 0,024         | 5,900        | 206,781  | -3,00    |  |            |          |          |  |            |          |          |  |
| 5,965  | 205,911  | 0,065      |  | 5,900      | 205,846  | -3,00    |  | 153+0,00   | 205,976      | 205,976      | 0,047         | 5,900        | 205,846  | -3,00    |  |            |          |          |  |            |          |          |  |
| 5,927  | 204,938  | 0,027      |  | 5,900      | 204,911  | -3,00    |  | 154+0,00   | 205,088      | 204,835      | 0,253         | 5,900        | 204,911  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,593  | 203,513  | -0,462     |  | 5,900      | 203,975  | -3,00    |  | 155+0,00   | 204,152      | 203,744      | 0,408         | 5,900        | 203,975  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,948  | 202,342  | -0,698     |  | 5,900      | 203,040  | -3,00    |  | 156+0,00   | 203,217      | 202,613      | 0,604         | 5,900        | 203,040  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,559  | 201,666  | -0,439     |  | 5,900      | 202,105  | -3,00    |  | 157+0,00   | 202,282      | 201,491      | 0,791         | 5,900        | 202,105  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,648  | 200,004  | -1,166     |  | 5,900      | 201,170  | -3,00    |  | 158+0,00   | 201,347      | 200,227      | 1,120         | 5,900        | 201,170  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,235  | 199,345  | -0,890     |  | 5,900      | 200,235  | -3,00    |  | 159+0,00   | 200,412      | 198,897      | 1,515         | 5,900        | 200,235  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,142  | 198,471  | -0,829     |  | 5,900      | 199,300  | -3,00    |  | 160+0,00   | 199,477      | 198,313      | 1,164         | 5,900        | 199,300  | -3,00    |  |            |          |          |  |            |          |          |  |
| 7,733  | 197,234  | -1,222     |  | 5,900      | 198,456  | -3,00    |  | 161+0,00   | 198,633      | 197,521      | 1,112         | 5,900        | 198,456  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,833  | 197,171  | -0,622     |  | 5,900      | 197,793  | -3,00    |  | 162+0,00   | 197,970      | 197,188      | 0,782         | 5,900        | 197,793  | -3,00    |  |            |          |          |  |            |          |          |  |
| 6,280  | 197,060  | -0,253     |  | 5,900      | 197,313  | -3,00    |  | 163+0,00   | 197,490      | 197,490      | 0,298         | 5,900        | 197,313  | -3,00    |  |            |          |          |  |            |          |          |  |

## Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |          |           |         |              |              | Eixo          |            |          |          | Lado Direito |          |            |          |           |            |          |            |  |  |
|---------------|----------|------------|------------|----------|----------|-----------|---------|--------------|--------------|---------------|------------|----------|----------|--------------|----------|------------|----------|-----------|------------|----------|------------|--|--|
| Offset        |          |            | Banqueta   |          |          |           | Bordo   |              |              | Eixo          |            |          | Bordo    |              |          |            | Banqueta |           |            | Offset   |            |  |  |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Ind. (%) | Cota (m) | Incl. (%) | Estraca | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m)   | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |  |  |
| 6,174         | 196,832  | -0,183     |            |          | 5,900    | 197,015   | -3,00   | 164+0,000    | 196,977      | 0,215         | 5,900      | 197,015  | -3,00    |              |          |            |          |           | 6,804      | 196,412  | -0,603     |  |  |
| 6,395         | 196,569  | -0,330     |            |          | 5,900    | 196,899   | -3,00   | 165+0,000    | 196,777      | 0,299         | 5,900      | 196,899  | -3,00    |              |          |            |          |           | 6,043      | 197,042  | 0,143      |  |  |
| 6,277         | 196,646  | -0,251     |            |          | 5,900    | 196,897   | -3,00   | 165+2,772    | 196,810      | 0,264         | 5,900      | 196,897  | -3,00    |              |          |            |          |           | 5,950      | 196,947  | 0,050      |  |  |
| 6,244         | 197,309  | 0,344      |            |          | 5,900    | 196,965   | -3,00   | 166+0,000    | 196,913      | 0,229         | 5,900      | 196,965  | -3,00    |              |          |            |          |           | 6,009      | 197,074  | 0,109      |  |  |
| 6,861         | 198,174  | 0,962      |            |          | 5,900    | 197,212   | -3,00   | 167+0,000    | 197,226      | 0,163         | 5,900      | 197,212  | -3,00    |              |          |            |          |           | 6,222      | 197,534  | 0,322      |  |  |
| 6,298         | 198,040  | 0,398      |            |          | 5,900    | 197,642   | -3,00   | 168+0,000    | 197,682      | 0,137         | 5,900      | 197,642  | -3,00    |              |          |            |          |           | 6,059      | 197,801  | 0,159      |  |  |
| 6,159         | 198,081  | -0,173     |            |          | 5,900    | 198,254   | -3,00   | 169+0,000    | 197,866      | 0,565         | 5,900      | 198,254  | -3,00    |              |          |            |          |           | 6,193      | 198,058  | -0,196     |  |  |
| 6,781         | 198,460  | -0,587     |            |          | 5,900    | 199,047   | -3,00   | 170+0,000    | 198,397      | 0,827         | 5,900      | 199,047  | -3,00    |              |          |            |          |           | 6,575      | 198,598  | -0,449     |  |  |
| 7,407         | 199,019  | -1,004     |            |          | 5,900    | 200,023   | -3,00   | 171+0,000    | 199,234      | 0,966         | 5,900      | 200,023  | -3,00    |              |          |            |          |           | 6,776      | 199,439  | -0,584     |  |  |
| 7,480         | 200,036  | -1,054     |            |          | 5,900    | 201,090   | -3,00   | 172+0,000    | 200,341      | 0,926         | 5,900      | 201,090  | -3,00    |              |          |            |          |           | 6,335      | 200,800  | -0,290     |  |  |
| 7,562         | 201,049  | -1,107     |            |          | 5,900    | 202,156   | -3,00   | 173+0,000    | 201,640      | 0,693         | 5,900      | 202,156  | -3,00    |              |          |            |          |           | 6,017      | 202,078  | -0,078     |  |  |
| 7,172         | 202,375  | -0,848     |            |          | 5,900    | 203,223   | -3,00   | 174+0,000    | 202,815      | 0,585         | 5,900      | 203,223  | -3,00    |              |          |            |          |           | 6,064      | 203,387  | 0,164      |  |  |
| 7,379         | 203,304  | -0,986     |            |          | 5,900    | 204,290   | -3,00   | 175+0,000    | 204,038      | 0,429         | 5,900      | 204,290  | -3,00    |              |          |            |          |           | 6,128      | 204,138  | -0,152     |  |  |
| 6,935         | 204,667  | -0,689     |            |          | 5,900    | 205,356   | -3,00   | 176+0,000    | 205,533      | 0,269         | 5,900      | 205,356  | -3,00    |              |          |            |          |           | 5,903      | 205,355  | -0,001     |  |  |
| 6,300         | 206,157  | -0,266     |            |          | 5,900    | 206,423   | -3,00   | 177+0,000    | 206,879      | -0,279        | 5,900      | 206,423  | -3,00    |              |          |            |          |           | 5,914      | 206,437  | 0,014      |  |  |
| 6,387         | 207,977  | 0,487      |            |          | 5,900    | 207,490   | -3,00   | 178+0,000    | 208,357      | -0,690        | 5,900      | 207,490  | -3,00    |              |          |            |          |           | 6,413      | 208,003  | 0,513      |  |  |
| 6,865         | 209,522  | 0,966      |            |          | 5,900    | 208,556   | -3,00   | 179+0,000    | 209,803      | -1,070        | 5,900      | 208,556  | -3,00    |              |          |            |          |           | 6,763      | 209,420  | 0,864      |  |  |
| 6,904         | 210,627  | 1,004      |            |          | 5,900    | 209,623   | -3,00   | 180+0,000    | 210,758      | -0,958        | 5,900      | 209,623  | -3,00    |              |          |            |          |           | 6,915      | 210,638  | 1,015      |  |  |
| 6,734         | 211,524  | 0,834      |            |          | 5,900    | 210,690   | -3,00   | 181+0,000    | 211,867      | -0,702        | 5,900      | 210,690  | -3,00    |              |          |            |          |           | 6,553      | 211,343  | 0,653      |  |  |
| 6,035         | 211,891  | 0,135      |            |          | 5,900    | 211,756   | -3,00   | 182+0,000    | 211,933      | -0,555        | 5,900      | 211,756  | -3,00    |              |          |            |          |           | 6,251      | 212,108  | 0,352      |  |  |
| 6,170         | 212,643  | -0,180     |            |          | 5,900    | 212,823   | -3,00   | 183+0,000    | 212,182      | 0,818         | 5,900      | 212,823  | -3,00    |              |          |            |          |           | 6,593      | 212,361  | -0,462     |  |  |
| 7,162         | 213,049  | -0,841     |            |          | 5,900    | 213,890   | -3,00   | 184+0,000    | 214,067      | 1,120         | 5,900      | 213,890  | -3,00    |              |          |            |          |           | 7,434      | 212,867  | -1,023     |  |  |
| 5,972         | 214,838  | -0,048     |            |          | 5,900    | 214,886   | -3,00   | 185+0,000    | 214,256      | 0,807         | 5,900      | 214,886  | -3,00    |              |          |            |          |           | 6,730      | 214,332  | -0,554     |  |  |
| 6,066         | 215,906  | 0,166      |            |          | 5,900    | 215,740   | -3,00   | 186+0,000    | 215,905      | 0,012         | 5,900      | 215,740  | -3,00    |              |          |            |          |           | 7,524      | 217,365  | 1,625      |  |  |
| 6,643         | 217,196  | 0,742      |            |          | 5,900    | 216,454   | -3,00   | 187+0,000    | 217,199      | -0,568        | 5,900      | 216,454  | -3,00    |              |          |            |          |           | 8,154      | 218,708  | 2,254      |  |  |
| 6,900         | 218,025  | 1,000      |            |          | 5,900    | 217,025   | -3,00   | 188+0,000    | 217,202      | -0,935        | 5,900      | 217,025  | -3,00    |              |          |            |          |           | 8,156      | 219,281  | 2,256      |  |  |
| 7,034         | 218,521  | 1,134      |            |          | 5,900    | 217,387   | -3,00   | 188+16,299   | 217,564      | -0,671        | 5,900      | 217,387  | -3,00    |              |          |            |          |           | 7,010      | 218,496  | 1,109      |  |  |
| 7,037         | 218,593  | 1,137      |            |          | 5,900    | 217,456   | -3,00   | 189+0,000    | 217,633      | -0,563        | 5,900      | 217,456  | -3,00    |              |          |            |          |           | 6,824      | 218,379  | 0,923      |  |  |
| 6,155         | 218,000  | 0,255      |            |          | 5,900    | 217,745   | -3,00   | 190+0,000    | 217,922      | -0,209        | 5,900      | 217,745  | -3,00    |              |          |            |          |           | 6,442      | 218,287  | 0,542      |  |  |
| 5,987         | 217,979  | 0,087      |            |          | 5,900    | 217,892   | -3,00   | 191+0,000    | 218,069      | 0,156         | 5,900      | 217,892  | -3,00    |              |          |            |          |           | 5,920      | 217,913  | 0,021      |  |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |          |            |          |           |            |         |         | Eixo         |              |               |            | Lado Direito |          |            |          |          |            |          |          |            |          |            |  |
|---------------|----------|------------|------------|----------|----------|------------|----------|-----------|------------|---------|---------|--------------|--------------|---------------|------------|--------------|----------|------------|----------|----------|------------|----------|----------|------------|----------|------------|--|
| Offset        |          |            | Banqueta   |          |          |            | Bordo    |           |            | Estaca  |         | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo      |              |          |            | Banqueta |          |            |          | Offset   |            |          |            |  |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Incl. (%) |            |         |         |              |              |               | Afast. (m) | Cota (m)     | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Altura (m) |  |
| 6,320         | 218,333  | 0,420      |            |          | -3,00    | 5,900      | 217,913  | -3,00     | 191+10,881 | 218,090 | 217,809 | 0,281        |              |               | 5,900      | 217,913      | -3,00    |            |          |          | 6,169      | 217,734  | -0,179   |            |          |            |  |
| 6,349         | 218,348  | 0,449      |            |          | -3,00    | 5,900      | 217,899  | -3,00     | 192+0,000  | 218,076 | 217,787 | 0,289        |              |               | 5,900      | 217,899      | -3,00    |            |          |          | 6,271      | 217,651  | -0,248   |            |          |            |  |
| 6,136         | 217,606  | -0,157     |            |          | -3,00    | 5,900      | 217,763  | -3,00     | 193+0,000  | 217,940 | 217,680 | 0,260        |              |               | 5,900      | 217,763      | -3,00    |            |          |          | 6,337      | 217,472  | -0,291   |            |          |            |  |
| 6,498         | 218,084  | 0,597      |            |          | -3,00    | 5,900      | 217,487  | -3,00     | 194+0,000  | 217,664 | 217,538 | 0,126        |              |               | 5,900      | 217,487      | -3,00    |            |          |          | 6,090      | 217,360  | -0,127   |            |          |            |  |
| 7,130         | 218,299  | 1,230      |            |          | -3,00    | 5,900      | 217,069  | -3,00     | 195+0,000  | 217,246 | 217,246 | 0,000        |              |               | 5,900      | 217,069      | -3,00    |            |          |          | 6,152      | 216,901  | -0,168   |            |          |            |  |
| 6,770         | 217,379  | 0,869      |            |          | -3,00    | 5,900      | 216,510  | -3,00     | 196+0,000  | 216,687 | 216,551 | 0,136        |              |               | 5,900      | 216,510      | -3,00    |            |          |          | 5,978      | 216,587  | 0,077    |            |          |            |  |
| 7,136         | 217,045  | 1,236      |            |          | -3,00    | 5,900      | 215,809  | -3,00     | 197+0,000  | 215,986 | 215,655 | 0,331        |              |               | 5,900      | 215,809      | -3,00    |            |          |          | 6,384      | 215,486  | -0,323   |            |          |            |  |
| 5,951         | 214,933  | -0,034     |            |          | -3,00    | 5,900      | 214,967  | -3,00     | 198+0,000  | 215,144 | 214,708 | 0,436        |              |               | 5,900      | 214,967      | -3,00    |            |          |          | 6,086      | 215,153  | 0,186    |            |          |            |  |
| 6,223         | 214,377  | 0,323      |            |          | -3,00    | 5,900      | 214,054  | -3,00     | 199+0,000  | 214,231 | 213,635 | 0,596        |              |               | 5,900      | 214,054      | -3,00    |            |          |          | 6,032      | 214,186  | 0,132    |            |          |            |  |
| 5,916         | 213,130  | -0,011     |            |          | -3,00    | 5,900      | 213,141  | -3,00     | 200+0,000  | 213,318 | 212,867 | 0,451        |              |               | 5,900      | 213,141      | -3,00    |            |          |          | 5,985      | 213,226  | 0,085    |            |          |            |  |
| 6,035         | 212,138  | -0,090     |            |          | -3,00    | 5,900      | 212,228  | -3,00     | 201+0,000  | 212,405 | 211,942 | 0,463        |              |               | 5,900      | 212,228      | -3,00    |            |          |          | 6,363      | 211,920  | -0,308   |            |          |            |  |
| 7,259         | 210,410  | -0,905     |            |          | -3,00    | 5,900      | 211,315  | -3,00     | 202+0,000  | 211,492 | 210,972 | 0,520        |              |               | 5,900      | 211,315      | -3,00    |            |          |          | 6,710      | 210,775  | -0,540   |            |          |            |  |
| 6,792         | 209,808  | -0,595     |            |          | -3,00    | 5,900      | 210,403  | -3,00     | 203+0,000  | 210,580 | 209,982 | 0,598        |              |               | 5,900      | 210,403      | -3,00    |            |          |          | 6,285      | 210,146  | -0,257   |            |          |            |  |
| 6,377         | 209,229  | -0,318     |            |          | -3,00    | 5,900      | 209,547  | -3,00     | 204+0,000  | 209,724 | 209,164 | 0,560        |              |               | 5,900      | 209,547      | -3,00    |            |          |          | 6,122      | 209,399  | -0,148   |            |          |            |  |
| 6,438         | 208,448  | -0,359     |            |          | -3,00    | 5,900      | 208,807  | -3,00     | 205+0,000  | 208,984 | 208,537 | 0,447        |              |               | 5,900      | 208,807      | -3,00    |            |          |          | 6,125      | 208,656  | -0,151   |            |          |            |  |
| 6,524         | 207,765  | -0,416     |            |          | -3,00    | 5,900      | 208,181  | -3,00     | 206+0,000  | 208,358 | 207,945 | 0,413        |              |               | 5,900      | 208,181      | -3,00    |            |          |          | 5,912      | 208,172  | -0,009   |            |          |            |  |
| 6,454         | 207,300  | -0,369     |            |          | -3,00    | 5,900      | 207,669  | -3,00     | 207+0,000  | 207,846 | 207,396 | 0,450        |              |               | 5,900      | 207,669      | -3,00    |            |          |          | 6,293      | 207,408  | -0,261   |            |          |            |  |
| 6,386         | 206,949  | -0,324     |            |          | -3,00    | 5,900      | 207,273  | -3,00     | 208+0,000  | 207,450 | 206,872 | 0,578        |              |               | 5,900      | 207,273      | -3,00    |            |          |          | 6,074      | 207,157  | -0,116   |            |          |            |  |
| 7,058         | 206,219  | -0,772     |            |          | -3,00    | 5,900      | 206,991  | -3,00     | 209+0,000  | 207,168 | 206,703 | 0,465        |              |               | 5,900      | 206,991      | -3,00    |            |          |          | 6,125      | 206,842  | -0,149   |            |          |            |  |
| 7,666         | 205,647  | -1,177     |            |          | -3,00    | 5,900      | 206,824  | -3,00     | 210+0,000  | 207,001 | 206,745 | 0,256        |              |               | 5,900      | 206,824      | -3,00    |            |          |          | 9,033      | 204,736  | -2,088   |            |          |            |  |
| 7,416         | 205,762  | -1,010     |            |          | -3,00    | 5,900      | 206,772  | -3,00     | 210+19,087 | 206,949 | 206,856 | 0,093        |              |               | 5,900      | 206,772      | -3,00    |            |          |          | 6,027      | 206,688  | -0,084   |            |          |            |  |
| 7,425         | 205,756  | -1,016     |            |          | -3,00    | 5,900      | 206,772  | -3,00     | 211+0,000  | 206,949 | 206,878 | 0,071        |              |               | 5,900      | 206,772      | -3,00    |            |          |          | 6,071      | 206,658  | -0,114   |            |          |            |  |
| 6,488         | 206,443  | -0,392     |            |          | -3,00    | 5,900      | 206,835  | -3,00     | 212+0,000  | 207,012 | 206,865 | 0,147        |              |               | 5,900      | 206,835      | -3,00    |            |          |          | 6,246      | 206,604  | -0,231   |            |          |            |  |
| 6,312         | 206,737  | -0,275     |            |          | -3,00    | 5,900      | 207,012  | -3,00     | 213+0,000  | 207,189 | 206,938 | 0,251        |              |               | 5,900      | 207,012      | -3,00    |            |          |          | 6,023      | 206,931  | -0,081   |            |          |            |  |
| 5,909         | 207,298  | -0,006     |            |          | -3,00    | 5,900      | 207,304  | -3,00     | 214+0,000  | 207,481 | 207,239 | 0,242        |              |               | 5,900      | 207,304      | -3,00    |            |          |          | 6,485      | 207,889  | 0,585    |            |          |            |  |
| 5,909         | 207,636  | -0,006     |            |          | -3,00    | 5,900      | 207,642  | -3,00     | 214+16,959 | 207,819 | 207,313 | 0,506        |              |               | 5,900      | 207,642      | -3,00    |            |          |          | 6,485      | 208,227  | 0,585    |            |          |            |  |
| 6,201         | 207,593  | -0,114     |            |          | -3,00    | 6,030      | 207,707  | -3,00     | 215+0,000  | 207,888 | 207,348 | 0,540        |              |               | 6,030      | 207,707      | -3,00    |            |          |          | 6,070      | 207,747  | 0,040    |            |          |            |  |
| 6,201         | 207,841  | -0,114     |            |          | -3,00    | 6,030      | 207,955  | -3,00     | 215+10,029 | 208,136 | 207,613 | 0,523        |              |               | 6,030      | 207,955      | -3,00    |            |          |          | 6,070      | 207,994  | 0,039    |            |          |            |  |
| 7,083         | 208,073  | -0,130     |            |          | -3,00    | 6,887      | 208,203  | -3,00     | 216+0,000  | 208,410 | 207,948 | 0,462        |              |               | 6,887      | 208,203      | -3,00    |            |          |          | 6,953      | 208,269  | 0,066    |            |          |            |  |
| 7,083         | 208,373  | -0,130     |            |          | -3,00    | 6,887      | 208,503  | -3,00     | 216+9,878  | 208,710 | 208,223 | 0,487        |              |               | 6,887      | 208,503      | -3,00    |            |          |          | 6,953      | 208,569  | 0,066    |            |          |            |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |          |           |            |          |           |            |              |              |               |              |          |           |            |          |           |            |          |           |            |          |            |  |  |
|----------------------------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|--------------|--------------|---------------|--------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|------------|--|--|
| Rodovia : RO-010    Lote 01      |          |            |            |          |           |            |          |           |            |              |              |               |              |          |           |            |          |           |            |          |           |            |          |            |  |  |
| Lado Esquerdo                    |          |            |            |          |           |            |          |           |            |              |              |               | Lado Direito |          |           |            |          |           |            |          |           |            |          |            |  |  |
| Offset                           |          |            | Banqueta   |          |           |            |          | Bordo     |            |              |              |               | Eixo         |          |           |            |          | Banqueta  |            |          |           |            | Offset   |            |  |  |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |  |  |
| 8,086                            | 208,587  | -0,227     |            |          | -3,00     | 7,745      | 208,814  | -3,00     | 217+0,000  | 209,046      | 208,499      | 0,547         | 7,745        | 208,814  | -3,00     | 7,745      | 208,814  | -3,00     | 7,745      | 208,814  | -3,00     | 8,059      | 209,129  | 0,315      |  |  |
| 8,086                            | 208,988  | -0,227     |            |          | -3,00     | 7,745      | 209,215  | -3,00     | 217+11,055 | 209,447      | 208,988      | 0,459         | 7,745        | 209,215  | -3,00     | 7,745      | 209,215  | -3,00     | 7,745      | 209,215  | -3,00     | 8,059      | 209,530  | 0,315      |  |  |
| 8,932                            | 209,870  | 0,330      |            |          | -3,00     | 8,602      | 209,540  | -3,00     | 218+0,000  | 209,798      | 209,473      | 0,325         | 8,602        | 209,540  | -3,00     | 8,602      | 209,540  | -3,00     | 8,602      | 209,540  | -3,00     | 9,565      | 210,503  | 0,963      |  |  |
| 8,932                            | 210,151  | 0,330      |            |          | -3,00     | 8,602      | 209,821  | -3,00     | 218+6,959  | 210,079      | 209,841      | 0,238         | 8,602        | 209,821  | -3,00     | 8,602      | 209,821  | -3,00     | 8,602      | 209,821  | -3,00     | 9,565      | 210,784  | 0,963      |  |  |
| 9,626                            | 211,065  | 0,726      |            |          | -3,00     | 8,900      | 210,339  | -3,00     | 219+0,000  | 210,606      | 210,402      | 0,204         | 8,900        | 210,339  | -3,00     | 8,900      | 210,339  | -3,00     | 8,900      | 210,339  | -3,00     | 9,322      | 210,761  | 0,422      |  |  |
| 9,485                            | 211,733  | 0,585      |            |          | -3,00     | 8,900      | 211,148  | -3,00     | 220+0,000  | 211,415      | 211,067      | 0,348         | 8,900        | 211,148  | -3,00     | 8,900      | 211,148  | -3,00     | 8,900      | 211,148  | -3,00     | 10,122     | 212,370  | 1,222      |  |  |
| 9,330                            | 211,820  | 0,430      |            |          | -3,00     | 8,900      | 211,390  | -3,00     | 220+6,000  | 211,657      | 211,357      | 0,300         | 8,900        | 211,390  | -3,00     | 8,900      | 211,390  | -3,00     | 8,900      | 211,390  | -3,00     | 10,220     | 212,710  | 1,320      |  |  |
| 9,330                            | 211,862  | 0,430      |            |          | -3,00     | 8,900      | 211,432  | -3,00     | 220+7,041  | 211,699      | 211,409      | 0,290         | 8,900        | 211,432  | -3,00     | 8,900      | 211,432  | -3,00     | 8,900      | 211,432  | -3,00     | 10,220     | 212,752  | 1,320      |  |  |
| 9,330                            | 212,121  | 0,430      |            |          | -3,00     | 8,900      | 211,691  | -3,00     | 220+13,617 | 211,958      | 211,675      | 0,283         | 8,900        | 211,691  | -3,00     | 8,900      | 211,691  | -3,00     | 8,900      | 211,691  | -3,00     | 10,220     | 213,011  | 1,320      |  |  |
| 8,598                            | 212,202  | 0,252      |            |          | -3,00     | 8,345      | 211,950  | -3,00     | 221+0,000  | 212,200      | 211,839      | 0,361         | 8,345        | 211,950  | -3,00     | 8,345      | 211,950  | -3,00     | 8,345      | 211,950  | -3,00     | 9,872      | 213,477  | 1,527      |  |  |
| 8,598                            | 212,556  | 0,253      |            |          | -3,00     | 8,345      | 212,303  | -3,00     | 221+9,843  | 212,553      | 212,087      | 0,466         | 8,345        | 212,303  | -3,00     | 8,345      | 212,303  | -3,00     | 8,345      | 212,303  | -3,00     | 9,872      | 213,830  | 1,527      |  |  |
| 8,325                            | 213,506  | 0,838      |            |          | -3,00     | 7,487      | 212,668  | -3,00     | 222+0,000  | 212,893      | 212,539      | 0,354         | 7,487        | 212,668  | -3,00     | 7,487      | 212,668  | -3,00     | 7,487      | 212,668  | -3,00     | 9,124      | 214,305  | 1,637      |  |  |
| 8,325                            | 213,805  | 0,838      |            |          | -3,00     | 7,487      | 212,967  | -3,00     | 222+9,610  | 213,192      | 213,035      | 0,157         | 7,487        | 212,967  | -3,00     | 7,487      | 212,967  | -3,00     | 7,487      | 212,967  | -3,00     | 9,124      | 214,604  | 1,637      |  |  |
| 7,716                            | 214,378  | 1,086      |            |          | -3,00     | 6,630      | 213,292  | -3,00     | 223+0,000  | 213,491      | 213,330      | 0,161         | 6,630        | 213,292  | -3,00     | 6,630      | 213,292  | -3,00     | 6,630      | 213,292  | -3,00     | 8,442      | 215,103  | 1,811      |  |  |
| 7,716                            | 214,611  | 1,086      |            |          | -3,00     | 6,630      | 213,525  | -3,00     | 223+8,821  | 213,724      | 213,608      | 0,116         | 6,630        | 213,525  | -3,00     | 6,630      | 213,525  | -3,00     | 6,630      | 213,525  | -3,00     | 8,442      | 215,336  | 1,811      |  |  |
| 7,716                            | 214,811  | 1,086      |            |          | -3,00     | 6,630      | 213,725  | -3,00     | 223+17,041 | 213,924      | 213,970      | -0,046        | 6,630        | 213,725  | -3,00     | 6,630      | 213,725  | -3,00     | 6,630      | 213,725  | -3,00     | 8,442      | 215,536  | 1,811      |  |  |
| 6,470                            | 214,385  | 0,570      |            |          | -3,00     | 5,900      | 213,815  | -3,00     | 224+0,000  | 213,992      | 214,110      | -0,118        | 5,900        | 213,815  | -3,00     | 5,900      | 213,815  | -3,00     | 5,900      | 213,815  | -3,00     | 8,119      | 216,034  | 2,219      |  |  |
| 6,648                            | 214,969  | 0,748      |            |          | -3,00     | 5,900      | 214,221  | -3,00     | 225+0,000  | 214,398      | 214,716      | -0,318        | 5,900        | 214,221  | -3,00     | 5,900      | 214,221  | -3,00     | 5,900      | 214,221  | -3,00     | 6,862      | 215,183  | 0,962      |  |  |
| 7,139                            | 215,769  | 1,238      |            |          | -3,00     | 5,900      | 214,531  | -3,00     | 226+0,000  | 214,708      | 215,322      | -0,614        | 5,900        | 214,531  | -3,00     | 5,900      | 214,531  | -3,00     | 5,900      | 214,531  | -3,00     | 7,961      | 216,592  | 2,061      |  |  |
| 7,372                            | 216,217  | 1,473      |            |          | -3,00     | 5,900      | 214,744  | -3,00     | 227+0,000  | 214,921      | 216,039      | -1,118        | 5,900        | 214,744  | -3,00     | 5,900      | 214,744  | -3,00     | 5,900      | 214,744  | -3,00     | 8,220      | 217,064  | 2,320      |  |  |
| 7,314                            | 216,277  | 1,415      |            |          | -3,00     | 5,900      | 214,862  | -3,00     | 228+0,000  | 215,039      | 216,419      | -1,380        | 5,900        | 214,862  | -3,00     | 5,900      | 214,862  | -3,00     | 5,900      | 214,862  | -3,00     | 8,128      | 217,090  | 2,228      |  |  |
| 7,288                            | 216,276  | 1,388      |            |          | -3,00     | 5,900      | 214,888  | -3,00     | 228+14,592 | 215,065      | 216,244      | -1,179        | 5,900        | 214,888  | -3,00     | 5,900      | 214,888  | -3,00     | 5,900      | 214,888  | -3,00     | 8,840      | 217,828  | 2,940      |  |  |
| 7,203                            | 216,187  | 1,303      |            |          | -3,00     | 5,900      | 214,884  | -3,00     | 229+0,000  | 215,061      | 216,202      | -1,141        | 5,900        | 214,884  | -3,00     | 5,900      | 214,884  | -3,00     | 5,900      | 214,884  | -3,00     | 9,065      | 218,050  | 3,166      |  |  |
| 7,308                            | 216,219  | 1,408      |            |          | -3,00     | 5,900      | 214,811  | -3,00     | 230+0,000  | 214,988      | 216,434      | -1,446        | 5,900        | 214,811  | -3,00     | 5,900      | 214,811  | -3,00     | 5,900      | 214,811  | -3,00     | 8,950      | 217,860  | 3,049      |  |  |
| 7,272                            | 216,013  | 1,372      |            |          | -3,00     | 5,900      | 214,641  | -3,00     | 231+0,000  | 214,818      | 215,651      | -0,833        | 5,900        | 214,641  | -3,00     | 5,900      | 214,641  | -3,00     | 5,900      | 214,641  | -3,00     | 8,475      | 217,215  | 2,574      |  |  |
| 7,174                            | 215,649  | 1,274      |            |          | -3,00     | 5,900      | 214,375  | -3,00     | 232+0,000  | 214,552      | 215,149      | -0,597        | 5,900        | 214,375  | -3,00     | 5,900      | 214,375  | -3,00     | 5,900      | 214,375  | -3,00     | 7,891      | 216,366  | 1,991      |  |  |
| 6,732                            | 214,845  | 0,832      |            |          | -3,00     | 5,900      | 214,013  | -3,00     | 233+0,000  | 214,190      | 214,172      | 0,018         | 5,900        | 214,013  | -3,00     | 5,900      | 214,013  | -3,00     | 5,900      | 214,013  | -3,00     | 7,792      | 215,906  | 1,893      |  |  |
| 6,125                            | 213,781  | 0,225      |            |          | -3,00     | 5,900      | 213,556  | -3,00     | 234+0,000  | 213,733      | 213,696      | 0,037         | 5,900        | 213,556  | -3,00     | 5,900      | 213,556  | -3,00     | 5,900      | 213,556  | -3,00     | 6,905      | 214,561  | 1,005      |  |  |
| 6,251                            | 213,751  | 0,351      |            |          | -3,00     | 5,900      | 213,400  | -3,00     | 234+6,000  | 213,577      | 213,413      | 0,164         | 5,900        | 213,400  | -3,00     | 5,900      | 213,400  | -3,00     | 5,900      | 213,400  | -3,00     | 6,838      | 214,338  | 0,938      |  |  |
| 6,004                            | 213,129  | 0,103      |            |          | -3,00     | 5,900      | 213,026  | -3,00     | 235+0,000  | 213,203      | 212,677      | 0,526         | 5,900        | 213,026  | -3,00     | 5,900      | 213,026  | -3,00     | 5,900      | 213,026  | -3,00     | 6,927      | 214,053  | 1,027      |  |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |            |          |           |            |          |         | Lado Direito |              |               |            |          |           |            |          |           |            |          |           |
|---------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|----------|---------|--------------|--------------|---------------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|
| Offset        |          |            |            |          |           | Bordo      |          |           |            |          |         | Eixo         |              |               |            |          |           | Bordo      |          |           |            |          |           |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Escala  | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) |
|               |          |            |            |          |           |            |          |           |            |          |         |              |              |               |            |          |           |            |          |           |            |          |           |
| 6.001         | 212,424  | -0,068     |            |          | -3,00     | 5,900      | 212,492  | -3,00     | 236+0,000  | 212,669  | 212,104 | 0,565        | 5,900        | 212,492       | -3,00      | 6,682    | 213,273   | 0,781      |          |           |            |          |           |
| 6.095         | 211,827  | -0,130     |            |          | -3,00     | 5,900      | 211,957  | -3,00     | 237+0,000  | 212,134  | 211,533 | 0,601        | 5,900        | 211,957       | -3,00      | 6,111    | 212,168   | 0,211      |          |           |            |          |           |
| 6.149         | 211,257  | -0,166     |            |          | -3,00     | 5,900      | 211,423  | -3,00     | 238+0,000  | 211,600  | 210,715 | 0,885        | 5,900        | 211,423       | -3,00      | 6,371    | 211,893   | 0,470      |          |           |            |          |           |
| 6.044         | 210,792  | -0,097     |            |          | -3,00     | 5,900      | 210,889  | -3,00     | 239+0,000  | 211,066  | 210,430 | 0,636        | 5,900        | 210,889       | -3,00      | 6,606    | 211,594   | 0,705      |          |           |            |          |           |
| 6.032         | 210,486  | 0,132      |            |          | -3,00     | 5,900      | 210,354  | -3,00     | 240+0,000  | 210,531  | 210,184 | 0,347        | 5,900        | 210,354       | -3,00      | 6,791    | 211,245   | 0,891      |          |           |            |          |           |
| 5.978         | 209,898  | 0,078      |            |          | -3,00     | 5,900      | 209,820  | -3,00     | 241+0,000  | 209,997  | 209,719 | 0,278        | 5,900        | 209,820       | -3,00      | 6,139    | 209,661   | -0,159     |          |           |            |          |           |
| 6.381         | 209,766  | 0,480      |            |          | -3,00     | 5,900      | 209,286  | -3,00     | 242+0,000  | 209,463  | 209,245 | 0,218        | 5,900        | 209,286       | -3,00      | 6,204    | 209,083   | -0,203     |          |           |            |          |           |
| 6.710         | 209,561  | 0,810      |            |          | -3,00     | 5,900      | 208,751  | -3,00     | 243+0,000  | 208,928  | 208,676 | 0,252        | 5,900        | 208,751       | -3,00      | 6,103    | 208,954   | 0,203      |          |           |            |          |           |
| 6.476         | 208,794  | 0,577      |            |          | -3,00     | 5,900      | 208,217  | -3,00     | 244+0,000  | 208,394  | 208,158 | 0,236        | 5,900        | 208,217       | -3,00      | 6,892    | 209,209   | 0,992      |          |           |            |          |           |
| 6.622         | 208,405  | 0,722      |            |          | -3,00     | 5,900      | 207,683  | -3,00     | 245+0,000  | 207,860  | 207,637 | 0,223        | 5,900        | 207,683       | -3,00      | 6,757    | 208,540   | 0,857      |          |           |            |          |           |
| 6.583         | 207,832  | 0,683      |            |          | -3,00     | 5,900      | 207,149  | -3,00     | 246+0,000  | 207,326  | 207,063 | 0,263        | 5,900        | 207,149       | -3,00      | 7,690    | 208,938   | 1,789      |          |           |            |          |           |
| 6.152         | 206,866  | 0,252      |            |          | -3,00     | 5,900      | 206,614  | -3,00     | 247+0,000  | 206,791  | 206,665 | 0,126        | 5,900        | 206,614       | -3,00      | 6,796    | 207,511   | 0,897      |          |           |            |          |           |
| 5.975         | 206,030  | -0,050     |            |          | -3,00     | 5,900      | 206,080  | -3,00     | 248+0,000  | 206,257  | 206,203 | 0,054        | 5,900        | 206,080       | -3,00      | 6,660    | 206,840   | 0,760      |          |           |            |          |           |
| 6.001         | 205,647  | 0,101      |            |          | -3,00     | 5,900      | 205,546  | -3,00     | 249+0,000  | 205,723  | 205,383 | 0,340        | 5,900        | 205,546       | -3,00      | 5,929    | 205,527   | -0,019     |          |           |            |          |           |
| 5.964         | 204,969  | -0,042     |            |          | -3,00     | 5,900      | 205,011  | -3,00     | 250+0,000  | 205,188  | 205,133 | 0,055        | 5,900        | 205,011       | -3,00      | 6,177    | 205,289   | 0,278      |          |           |            |          |           |
| 5.953         | 204,682  | -0,036     |            |          | -3,00     | 5,900      | 204,718  | -3,00     | 250+11,000 | 204,895  | 205,021 | -0,126       | 5,900        | 204,718       | -3,00      | 6,153    | 204,970   | 0,252      |          |           |            |          |           |
| 6.066         | 204,636  | 0,166      |            |          | -3,00     | 5,900      | 204,470  | -3,00     | 251+0,000  | 204,647  | 204,518 | 0,129        | 5,900        | 204,470       | -3,00      | 6,283    | 204,852   | 0,382      |          |           |            |          |           |
| 6.007         | 203,793  | -0,071     |            |          | -3,00     | 5,900      | 203,864  | -3,00     | 252+0,000  | 204,041  | 204,125 | -0,084       | 5,900        | 203,864       | -3,00      | 6,413    | 204,377   | 0,513      |          |           |            |          |           |
| 6.500         | 203,784  | 0,600      |            |          | -3,00     | 5,900      | 203,184  | -3,00     | 253+0,000  | 203,361  | 203,546 | -0,185       | 5,900        | 203,184       | -3,00      | 6,233    | 203,516   | 0,332      |          |           |            |          |           |
| 6.654         | 203,193  | 0,754      |            |          | -3,00     | 5,900      | 202,439  | -3,00     | 254+0,000  | 202,616  | 202,856 | -0,240       | 5,900        | 202,439       | -3,00      | 5,914    | 202,453   | 0,014      |          |           |            |          |           |
| 6.055         | 201,538  | -0,103     |            |          | -3,00     | 5,900      | 201,641  | -3,00     | 255+0,000  | 201,818  | 201,977 | -0,159       | 5,900        | 201,641       | -3,00      | 6,527    | 202,269   | 0,628      |          |           |            |          |           |
| 6.126         | 200,642  | -0,150     |            |          | -3,00     | 5,900      | 200,792  | -3,00     | 256+0,000  | 200,969  | 200,989 | -0,020       | 5,900        | 200,792       | -3,00      | 6,062    | 200,955   | 0,163      |          |           |            |          |           |
| 6.129         | 200,596  | -0,152     |            |          | -3,00     | 5,900      | 200,748  | -3,00     | 256+1,000  | 200,925  | 200,927 | -0,002       | 5,900        | 200,748       | -3,00      | 6,031    | 200,879   | 0,131      |          |           |            |          |           |
| 6.208         | 199,710  | -0,205     |            |          | -3,00     | 5,900      | 199,915  | -3,00     | 257+0,000  | 200,092  | 199,747 | 0,345        | 5,900        | 199,915       | -3,00      | 5,976    | 199,990   | 0,075      |          |           |            |          |           |
| 6.007         | 199,185  | -0,071     |            |          | -3,00     | 5,900      | 199,256  | -3,00     | 257+15,000 | 199,433  | 198,933 | 0,500        | 5,900        | 199,256       | -3,00      | 6,442    | 198,895   | -0,361     |          |           |            |          |           |
| 6.001         | 198,973  | -0,067     |            |          | -3,00     | 5,900      | 199,040  | -3,00     | 258+0,000  | 199,217  | 198,633 | 0,584        | 5,900        | 199,040       | -3,00      | 6,550    | 198,607   | -0,433     |          |           |            |          |           |
| 6.397         | 197,910  | -0,331     |            |          | -3,00     | 5,900      | 198,241  | -3,00     | 259+0,000  | 198,418  | 197,935 | 0,483        | 5,900        | 198,241       | -3,00      | 5,915    | 198,231   | -0,010     |          |           |            |          |           |
| 6.186         | 197,357  | -0,191     |            |          | -3,00     | 5,900      | 197,548  | -3,00     | 260+0,000  | 197,725  | 197,064 | 0,661        | 5,900        | 197,548       | -3,00      | 6,079    | 197,726   | 0,178      |          |           |            |          |           |
| 6.352         | 196,658  | -0,302     |            |          | -3,00     | 5,900      | 196,960  | -3,00     | 261+0,000  | 197,137  | 196,427 | 0,710        | 5,900        | 196,960       | -3,00      | 6,457    | 196,588   | -0,372     |          |           |            |          |           |
| 6.635         | 195,987  | -0,490     |            |          | -3,00     | 5,900      | 196,477  | -3,00     | 262+0,000  | 196,654  | 196,212 | 0,442        | 5,900        | 196,477       | -3,00      | 6,115    | 196,333   | -0,144     |          |           |            |          |           |



## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |           |          |           |            |            |           | Eixo    |       |              |              |               |            | Lado Direito |           |            |          |           |            |          |            |  |  |
|---------------|----------|------------|------------|-----------|----------|-----------|------------|------------|-----------|---------|-------|--------------|--------------|---------------|------------|--------------|-----------|------------|----------|-----------|------------|----------|------------|--|--|
| Offset        |          |            | Banqueta   |           |          |           | Bordo      |            |           | Estaca  |       | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo      |              |           | Banqueta   |          |           |            | Offset   |            |  |  |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Incl. (%) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m)   | Incl. (%) |         |       |              |              |               | Afast. (m) | Cota (m)     | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |  |  |
| 6.561         | 195,658  | -0,441     |            |           | 5,900    | 196,099   | -3,00      | 263+0,000  | 196,276   | 195,772 | 0,504 | 5,900        | 196,099      | -3,00         | 6,147      | 195,935      | -0,164    |            |          |           |            |          |            |  |  |
| 6.575         | 195,377  | -0,450     |            |           | 5,900    | 195,827   | -3,00      | 264+0,000  | 196,004   | 195,562 | 0,442 | 5,900        | 195,827      | -3,00         | 6,856      | 195,189      | -0,638    |            |          |           |            |          |            |  |  |
| 7.302         | 194,725  | -0,935     |            |           | 5,900    | 195,660   | -3,00      | 265+0,000  | 195,837   | 195,302 | 0,535 | 5,900        | 195,660      | -3,00         | 6,784      | 195,070      | -0,590    |            |          |           |            |          |            |  |  |
| 8.595         | 193,802  | -1,796     |            |           | 5,900    | 195,598   | -3,00      | 266+0,000  | 195,775   | 195,266 | 0,509 | 5,900        | 195,598      | -3,00         | 7,823      | 194,316      | -1,282    |            |          |           |            |          |            |  |  |
| 8.737         | 193,706  | -1,892     |            |           | 5,900    | 195,598   | -3,00      | 266+1,712  | 195,775   | 195,277 | 0,498 | 5,900        | 195,598      | -3,00         | 7,952      | 194,230      | -1,368    |            |          |           |            |          |            |  |  |
| 9.452         | 193,253  | -2,368     |            |           | 5,900    | 195,621   | -3,00      | 266+15,000 | 195,798   | 195,360 | 0,438 | 5,900        | 195,621      | -3,00         | 8,966      | 193,577      | -2,044    |            |          |           |            |          |            |  |  |
| 8.494         | 193,909  | -1,730     |            |           | 5,900    | 195,639   | -3,00      | 267+0,000  | 195,816   | 195,339 | 0,477 | 5,900        | 195,639      | -3,00         | 8,925      | 193,622      | -2,017    |            |          |           |            |          |            |  |  |
| 7.559         | 194,603  | -1,106     |            |           | 5,900    | 195,709   | -3,00      | 268+0,000  | 195,886   | 195,230 | 0,656 | 5,900        | 195,709      | -3,00         | 8,110      | 194,236      | -1,473    |            |          |           |            |          |            |  |  |
| 7.988         | 194,387  | -1,392     |            |           | 5,900    | 195,779   | -3,00      | 269+0,000  | 195,956   | 195,067 | 0,889 | 5,900        | 195,779      | -3,00         | 9,008      | 193,707      | -2,072    |            |          |           |            |          |            |  |  |
| 9.884         | 193,192  | -2,656     |            |           | 5,900    | 195,848   | -3,00      | 270+0,000  | 196,025   | 195,036 | 0,989 | 5,900        | 195,848      | -3,00         | 9,371      | 193,535      | -2,313    |            |          |           |            |          |            |  |  |
| 9.736         | 193,361  | -2,557     |            |           | 5,900    | 195,918   | -3,00      | 271+0,000  | 196,095   | 195,114 | 0,981 | 5,900        | 195,918      | -3,00         | 9,279      | 193,666      | -2,252    |            |          |           |            |          |            |  |  |
| 9.027         | 193,904  | -2,084     |            |           | 5,900    | 195,988   | -3,00      | 272+0,000  | 196,165   | 195,109 | 1,056 | 5,900        | 195,988      | -3,00         | 9,103      | 193,853      | -2,135    |            |          |           |            |          |            |  |  |
| 9.918         | 193,380  | -2,678     |            |           | 5,900    | 196,058   | -3,00      | 273+0,000  | 196,235   | 195,116 | 1,119 | 5,900        | 196,058      | -3,00         | 9,713      | 193,516      | -2,542    |            |          |           |            |          |            |  |  |
| 9.215         | 193,918  | -2,210     |            |           | 5,900    | 196,128   | -3,00      | 274+0,000  | 196,305   | 195,070 | 1,235 | 5,900        | 196,128      | -3,00         | 8,829      | 194,176      | -1,952    |            |          |           |            |          |            |  |  |
| 8.572         | 194,417  | -1,781     |            |           | 5,900    | 196,198   | -3,00      | 275+0,000  | 196,375   | 195,018 | 1,357 | 5,900        | 196,198      | -3,00         | 9,184      | 194,009      | -2,189    |            |          |           |            |          |            |  |  |
| 8.546         | 194,504  | -1,764     |            |           | 5,900    | 196,268   | -3,00      | 276+0,000  | 196,445   | 195,208 | 1,237 | 5,900        | 196,268      | -3,00         | 10,192     | 193,407      | -2,861    |            |          |           |            |          |            |  |  |
| 8.575         | 194,555  | -1,783     |            |           | 5,900    | 196,338   | -3,00      | 277+0,000  | 196,515   | 195,228 | 1,287 | 5,900        | 196,338      | -3,00         | 7,837      | 195,047      | -1,291    |            |          |           |            |          |            |  |  |
| 7.938         | 195,049  | -1,359     |            |           | 5,900    | 196,408   | -3,00      | 278+0,000  | 196,585   | 195,384 | 1,201 | 5,900        | 196,408      | -3,00         | 8,228      | 194,856      | -1,552    |            |          |           |            |          |            |  |  |
| 7.410         | 195,472  | -1,006     |            |           | 5,900    | 196,478   | -3,00      | 279+0,000  | 196,655   | 195,489 | 1,166 | 5,900        | 196,478      | -3,00         | 8,014      | 195,069      | -1,409    |            |          |           |            |          |            |  |  |
| 7.429         | 195,470  | -1,019     |            |           | 5,900    | 196,489   | -3,00      | 279+3,000  | 196,666   | 195,475 | 1,191 | 5,900        | 196,489      | -3,00         | 7,991      | 195,095      | -1,394    |            |          |           |            |          |            |  |  |
| 7.583         | 195,406  | -1,122     |            |           | 5,900    | 196,528   | -3,00      | 279+12,569 | 196,705   | 195,671 | 1,034 | 5,900        | 196,528      | -3,00         | 7,735      | 195,305      | -1,223    |            |          |           |            |          |            |  |  |
| 7.859         | 195,465  | -1,093     |            |           | 6,218    | 196,558   | -3,00      | 280+0,000  | 196,745   | 195,762 | 0,983 | 6,218        | 196,558      | -3,00         | 8,110      | 195,298      | -1,260    |            |          |           |            |          |            |  |  |
| 7.478         | 196,409  | -0,268     |            |           |          | 196,677   | -3,00      | 281+0,000  | 196,889   | 196,004 | 0,885 | 7,076        | 196,677      | -3,00         | 9,155      | 195,291      | -1,386    |            |          |           |            |          |            |  |  |
| 8.486         | 196,482  | -0,369     |            |           |          | 196,851   | -3,00      | 282+0,000  | 197,089   | 196,110 | 0,979 | 7,933        | 196,851      | -3,00         | 10,170     | 195,360      | -1,491    |            |          |           |            |          |            |  |  |
| 9.030         | 196,920  | -0,160     |            |           |          | 197,080   | -3,00      | 283+0,000  | 197,344   | 196,560 | 0,784 | 8,790        | 197,080      | -3,00         | 11,157     | 195,502      | -1,578    |            |          |           |            |          |            |  |  |
| 9.124         | 196,964  | -0,149     |            |           |          | 197,113   | -3,00      | 283+2,569  | 197,380   | 196,650 | 0,730 | 8,900        | 197,113      | -3,00         | 11,303     | 195,512      | -1,601    |            |          |           |            |          |            |  |  |
| 9.218         | 197,175  | -0,212     |            |           |          | 197,387   | -3,00      | 284+0,000  | 197,654   | 197,144 | 0,510 | 8,900        | 197,387      | -3,00         | 10,045     | 196,623      | -0,764    |            |          |           |            |          |            |  |  |
| 9.152         | 197,584  | -0,168     |            |           |          | 197,752   | -3,00      | 285+0,000  | 198,019   | 197,564 | 0,455 | 8,900        | 197,752      | -3,00         | 9,543      | 197,323      | -0,429    |            |          |           |            |          |            |  |  |
| 9.182         | 197,615  | -0,188     |            |           |          | 197,803   | -3,00      | 285+2,600  | 198,070   | 197,602 | 0,468 | 8,900        | 197,803      | -3,00         | 9,328      | 197,518      | -0,285    |            |          |           |            |          |            |  |  |
| 9.539         | 197,271  | -0,923     |            |           |          | 198,194   | -3,00      | 286+0,000  | 198,439   | 197,640 | 0,799 | 8,154        | 198,194      | -3,00         | 8,530      | 198,570      | 0,376     |            |          |           |            |          |            |  |  |



## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |           |            |          |           |            |          |            |              |              |               |            |              |           |            |          |            |          |           |            |          |            |          |           |            |          |            |
|----------------------------------|----------|------------|------------|-----------|------------|----------|-----------|------------|----------|------------|--------------|--------------|---------------|------------|--------------|-----------|------------|----------|------------|----------|-----------|------------|----------|------------|----------|-----------|------------|----------|------------|
| Lado Esquerdo                    |          |            |            |           |            |          |           |            |          |            |              |              |               |            | Lado Direito |           |            |          |            |          |           |            |          |            |          |           |            |          |            |
| Offset                           |          |            |            |           | Banqueta   |          |           |            |          | Bordo      |              |              |               |            | Eixo         |           |            |          |            | Banqueta |           |            |          |            | Offset   |           |            |          |            |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m)     | Incl. (%) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |
| 7,920                            | 198,280  | -0,415     |            |           | 7,297      | 198,695  | -3,00     |            |          | 287+0.000  | 198,914      | 197,922      | 0,992         | 7,297      | 198,695      | -3,00     |            |          |            |          |           |            |          |            |          | 7,669     | 199,067    | 0,372    |            |
| 7,841                            | 198,327  | -0,448     |            |           | 7,169      | 198,775  | -3,00     |            |          | 287+3.000  | 198,990      | 198,016      | 0,974         | 7,169      | 198,775      | -3,00     |            |          |            |          |           |            |          |            |          | 7,554     | 199,161    | 0,386    |            |
| 7,386                            | 198,600  | -0,632     |            |           | 6,440      | 199,232  | -3,00     |            |          | 288+0.000  | 199,425      | 198,667      | 0,758         | 6,440      | 199,232      | -3,00     |            |          |            |          |           |            |          |            |          | 7,025     | 199,817    | 0,585    |            |
| 7,086                            | 198,779  | -0,791     |            |           | 5,900      | 199,570  | -3,00     |            |          | 288+12.600 | 199,747      | 199,195      | 0,552         | 5,900      | 199,570      | -3,00     |            |          |            |          |           |            |          |            |          | 6,509     | 200,179    | 0,609    |            |
| 6,891                            | 199,098  | -0,661     |            |           | 5,900      | 199,759  | -3,00     |            |          | 289+0.000  | 199,936      | 199,305      | 0,631         | 5,900      | 199,759      | -3,00     |            |          |            |          |           |            |          |            |          | 6,419     | 200,278    | 0,519    |            |
| 6,673                            | 199,754  | -0,516     |            |           | 5,900      | 200,270  | -3,00     |            |          | 290+0.000  | 200,447      | 199,796      | 0,651         | 5,900      | 200,270      | -3,00     |            |          |            |          |           |            |          |            |          | 5,945     | 200,315    | 0,045    |            |
| 6,926                            | 200,097  | -0,684     |            |           | 5,900      | 200,781  | -3,00     |            |          | 291+0.000  | 200,958      | 200,393      | 0,565         | 5,900      | 200,781      | -3,00     |            |          |            |          |           |            |          |            |          | 6,561     | 200,340    | -0,441   |            |
| 6,594                            | 200,829  | -0,463     |            |           | 5,900      | 201,292  | -3,00     |            |          | 292+0.000  | 201,469      | 200,939      | 0,530         | 5,900      | 201,292      | -3,00     |            |          |            |          |           |            |          |            |          | 6,605     | 200,822    | -0,470   |            |
| 5,985                            | 201,888  | 0,085      |            |           | 5,900      | 201,803  | -3,00     |            |          | 293+0.000  | 201,980      | 201,618      | 0,362         | 5,900      | 201,803      | -3,00     |            |          |            |          |           |            |          |            |          | 6,020     | 201,723    | -0,080   |            |
| 6,024                            | 202,231  | -0,083     |            |           | 5,900      | 202,314  | -3,00     |            |          | 294+0.000  | 202,491      | 202,250      | 0,241         | 5,900      | 202,314      | -3,00     |            |          |            |          |           |            |          |            |          | 6,116     | 202,530    | 0,216    |            |
| 5,905                            | 202,822  | -0,003     |            |           | 5,900      | 202,825  | -3,00     |            |          | 295+0.000  | 203,002      | 202,728      | 0,274         | 5,900      | 202,825      | -3,00     |            |          |            |          |           |            |          |            |          | 5,974     | 202,900    | 0,075    |            |
| 5,910                            | 203,347  | 0,010      |            |           | 5,900      | 203,337  | -3,00     |            |          | 296+0.000  | 203,514      | 203,290      | 0,224         | 5,900      | 203,337      | -3,00     |            |          |            |          |           |            |          |            |          | 7,001     | 204,437    | 1,100    |            |
| 6,165                            | 204,112  | 0,264      |            |           | 5,900      | 203,848  | -3,00     |            |          | 297+0.000  | 204,025      | 204,084      | -0,059        | 5,900      | 203,848      | -3,00     |            |          |            |          |           |            |          |            |          | 7,292     | 205,240    | 1,392    |            |
| 7,376                            | 205,835  | 1,476      |            |           | 5,900      | 204,359  | -3,00     |            |          | 298+0.000  | 204,536      | 204,976      | -0,440        | 5,900      | 204,359      | -3,00     |            |          |            |          |           |            |          |            |          | 7,763     | 206,221    | 1,862    |            |
| 7,645                            | 206,615  | 1,745      |            |           | 5,900      | 204,870  | -3,00     |            |          | 299+0.000  | 205,047      | 205,910      | -0,863        | 5,900      | 204,870      | -3,00     |            |          |            |          |           |            |          |            |          | 8,287     | 207,257    | 2,387    |            |
| 8,500                            | 207,981  | 2,600      |            |           | 5,900      | 205,381  | -3,00     |            |          | 300+0.000  | 205,558      | 206,739      | -1,181        | 5,900      | 205,381      | -3,00     |            |          |            |          |           |            |          |            |          | 8,698     | 208,179    | 2,798    |            |
| 8,647                            | 208,639  | 2,747      |            |           | 5,900      | 205,892  | -3,00     |            |          | 301+0.000  | 206,069      | 207,594      | -1,525        | 5,900      | 205,892      | -3,00     |            |          |            |          |           |            |          |            |          | 7,791     | 207,784    | 1,892    |            |
| 8,029                            | 208,533  | 2,130      |            |           | 5,900      | 206,403  | -3,00     |            |          | 302+0.000  | 206,580      | 208,276      | -1,696        | 5,900      | 206,403      | -3,00     |            |          |            |          |           |            |          |            |          | 8,640     | 209,143    | 2,740    |            |
| 8,711                            | 209,725  | 2,811      |            |           | 5,900      | 206,914  | -3,00     |            |          | 303+0.000  | 207,091      | 208,561      | -1,470        | 5,900      | 206,914      | -3,00     |            |          |            |          |           |            |          |            |          | 7,702     | 208,716    | 1,802    |            |
| 8,464                            | 209,990  | 2,564      |            |           | 5,900      | 207,426  | -3,00     |            |          | 304+0.000  | 207,603      | 208,832      | -1,229        | 5,900      | 207,426      | -3,00     |            |          |            |          |           |            |          |            |          | 8,310     | 209,836    | 2,410    |            |
| 7,387                            | 209,424  | 1,487      |            |           | 5,900      | 207,937  | -3,00     |            |          | 305+0.000  | 208,114      | 208,941      | -0,827        | 5,900      | 207,937      | -3,00     |            |          |            |          |           |            |          |            |          | 7,727     | 209,764    | 1,827    |            |
| 6,559                            | 209,107  | 0,659      |            |           | 5,900      | 208,448  | -3,00     |            |          | 306+0.000  | 208,625      | 208,872      | -0,247        | 5,900      | 208,448      | -3,00     |            |          |            |          |           |            |          |            |          | 6,722     | 209,270    | 0,822    |            |
| 6,083                            | 209,142  | 0,183      |            |           | 5,900      | 208,959  | -3,00     |            |          | 307+0.000  | 209,136      | 208,937      | 0,199         | 5,900      | 208,959      | -3,00     |            |          |            |          |           |            |          |            |          | 6,175     | 209,234    | 0,275    |            |
| 5,957                            | 209,432  | -0,038     |            |           | 5,900      | 209,470  | -3,00     |            |          | 308+0.000  | 209,647      | 209,329      | 0,318         | 5,900      | 209,470      | -3,00     |            |          |            |          |           |            |          |            |          | 6,283     | 209,215    | -0,255   |            |
| 7,064                            | 209,205  | -0,776     |            |           | 5,900      | 209,981  | -3,00     |            |          | 309+0.000  | 210,158      | 209,374      | 0,784         | 5,900      | 209,981      | -3,00     |            |          |            |          |           |            |          |            |          | 6,891     | 209,321    | -0,660   |            |
| 7,278                            | 209,574  | -0,918     |            |           | 5,900      | 210,492  | -3,00     |            |          | 310+0.000  | 210,669      | 209,639      | 1,030         | 5,900      | 210,492      | -3,00     |            |          |            |          |           |            |          |            |          | 6,161     | 210,318    | -0,174   |            |
| 7,109                            | 210,164  | -0,806     |            |           | 5,900      | 210,970  | -3,00     |            |          | 311+0.000  | 211,147      | 210,257      | 0,890         | 5,900      | 210,970      | -3,00     |            |          |            |          |           |            |          |            |          | 5,943     | 211,013    | 0,043    |            |
| 6,375                            | 211,065  | -0,316     |            |           | 5,900      | 211,381  | -3,00     |            |          | 312+0.000  | 211,558      | 211,160      | 0,398         | 5,900      | 211,381      | -3,00     |            |          |            |          |           |            |          |            |          | 6,335     | 211,816    | 0,435    |            |
| 6,156                            | 211,982  | 0,256      |            |           | 5,900      | 211,726  | -3,00     |            |          | 313+0.000  | 211,903      | 212,034      | -0,131        | 5,900      | 211,726      | -3,00     |            |          |            |          |           |            |          |            |          | 7,266     | 213,092    | 1,366    |            |
| 7,301                            | 213,406  | 1,402      |            |           | 5,900      | 212,004  | -3,00     |            |          | 314+0.000  | 212,181      | 212,876      | -0,695        | 5,900      | 212,004      | -3,00     |            |          |            |          |           |            |          |            |          | 7,542     | 213,647    | 1,643    |            |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |  |            |          |           |       |            |          |           |        |        |              |              |               |            |          |           |  |            |          |           |  |            |          |           |  |
|----------------------------------|----------|------------|--|------------|----------|-----------|-------|------------|----------|-----------|--------|--------|--------------|--------------|---------------|------------|----------|-----------|--|------------|----------|-----------|--|------------|----------|-----------|--|
| Rodovia : RO-010    Lote 01      |          |            |  |            |          |           |       |            |          |           |        |        |              |              |               |            |          |           |  |            |          |           |  |            |          |           |  |
| Lado Esquerdo                    |          |            |  |            |          |           |       |            |          |           |        |        |              | Lado Direito |               |            |          |           |  |            |          |           |  |            |          |           |  |
| Offset                           |          |            |  | Banqueta   |          |           |       | Bordo      |          |           |        | Eixo   |              |              |               | Bordo      |          |           |  | Banqueta   |          |           |  | Offset     |          |           |  |
| Afast. (m)                       | Cota (m) | Altura (m) |  | Afast. (m) | Cota (m) | Incl. (%) |       | Afast. (m) | Cota (m) | Incl. (%) |        | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Incl. (%) |  |
| 7,011                            | 213,327  | 1,111      |  |            | 5,900    | 212,216   | -3,00 | 315+0.000  | 212,393  | 213,601   | -1,208 |        |              |              |               | 5,900      | 212,216  | -3,00     |  | 5,900      | 212,361  | -3,00     |  | 8,129      | 214,445  | 2,229     |  |
| 7,435                            | 213,896  | 1,535      |  |            | 5,900    | 212,361   | -3,00 | 316+0.000  | 212,538  | 213,959   | -1,421 |        |              |              |               | 5,900      | 212,361  | -3,00     |  | 5,900      | 212,440  | -3,00     |  | 8,366      | 214,828  | 2,467     |  |
| 7,314                            | 213,854  | 1,414      |  |            | 5,900    | 212,440   | -3,00 | 317+0.000  | 212,617  | 214,003   | -1,386 |        |              |              |               | 5,900      | 212,440  | -3,00     |  | 5,900      | 212,455  | -3,00     |  | 7,853      | 214,392  | 1,952     |  |
| 7,173                            | 213,728  | 1,273      |  |            | 5,900    | 212,455   | -3,00 | 317+13.599 | 212,632  | 213,734   | -1,102 |        |              |              |               | 5,900      | 212,455  | -3,00     |  | 5,900      | 212,452  | -3,00     |  | 7,831      | 214,386  | 1,931     |  |
| 7,151                            | 213,703  | 1,251      |  |            | 5,900    | 212,452   | -3,00 | 318+0.000  | 212,629  | 213,777   | -1,148 |        |              |              |               | 5,900      | 212,452  | -3,00     |  | 5,900      | 212,397  | -3,00     |  | 7,863      | 214,415  | 1,963     |  |
| 7,114                            | 213,611  | 1,214      |  |            | 5,900    | 212,397   | -3,00 | 319+0.000  | 212,574  | 213,822   | -1,248 |        |              |              |               | 5,900      | 212,397  | -3,00     |  | 5,900      | 212,276  | -3,00     |  | 7,835      | 214,332  | 1,935     |  |
| 7,068                            | 213,444  | 1,168      |  |            | 5,900    | 212,276   | -3,00 | 320+0.000  | 212,453  | 213,572   | -1,119 |        |              |              |               | 5,900      | 212,276  | -3,00     |  | 5,900      | 212,088  | -3,00     |  | 8,072      | 214,448  | 2,172     |  |
| 7,186                            | 213,375  | 1,287      |  |            | 5,900    | 212,088   | -3,00 | 321+0.000  | 212,265  | 213,559   | -1,294 |        |              |              |               | 5,900      | 212,088  | -3,00     |  | 5,900      | 211,834  | -3,00     |  | 7,935      | 214,123  | 2,035     |  |
| 7,378                            | 213,312  | 1,478      |  |            | 5,900    | 211,834   | -3,00 | 322+0.000  | 212,011  | 213,297   | -1,286 |        |              |              |               | 5,900      | 211,834  | -3,00     |  | 5,900      | 211,513  | -3,00     |  | 7,548      | 213,482  | 1,648     |  |
| 7,793                            | 213,407  | 1,894      |  |            | 5,900    | 211,513   | -3,00 | 323+0.000  | 211,690  | 212,960   | -1,270 |        |              |              |               | 5,900      | 211,513  | -3,00     |  | 5,900      | 211,126  | -3,00     |  | 7,946      | 213,559  | 2,046     |  |
| 8,073                            | 213,299  | 2,173      |  |            | 5,900    | 211,126   | -3,00 | 324+0.000  | 211,303  | 212,477   | -1,174 |        |              |              |               | 5,900      | 211,126  | -3,00     |  | 5,900      | 210,672  | -3,00     |  | 8,174      | 213,400  | 2,274     |  |
| 7,985                            | 212,757  | 2,085      |  |            | 5,900    | 210,672   | -3,00 | 325+0.000  | 210,849  | 211,729   | -0,880 |        |              |              |               | 5,900      | 210,672  | -3,00     |  | 5,900      | 210,152  | -3,00     |  | 7,140      | 211,912  | 1,240     |  |
| 7,536                            | 211,788  | 1,636      |  |            | 5,900    | 210,152   | -3,00 | 326+0.000  | 210,329  | 210,983   | -0,654 |        |              |              |               | 5,900      | 210,152  | -3,00     |  | 5,900      | 209,565  | -3,00     |  | 7,047      | 211,299  | 1,147     |  |
| 7,387                            | 211,051  | 1,486      |  |            | 5,900    | 209,565   | -3,00 | 327+0.000  | 209,742  | 210,209   | -0,467 |        |              |              |               | 5,900      | 209,565  | -3,00     |  | 5,900      | 209,049  | -3,00     |  | 6,665      | 210,329  | 0,764     |  |
| 7,262                            | 210,411  | 1,362      |  |            | 5,900    | 209,049   | -3,00 | 327+15.933 | 209,226  | 209,529   | -0,303 |        |              |              |               | 5,900      | 209,049  | -3,00     |  | 5,900      | 208,911  | -3,00     |  | 6,970      | 210,119  | 1,070     |  |
| 7,269                            | 210,320  | 1,369      |  |            | 5,900    | 208,951   | -2,33 | 328+0.000  | 209,088  | 209,339   | -0,251 |        |              |              |               | 5,900      | 208,911  | -3,00     |  | 5,900      | 208,424  | -3,00     |  | 6,221      | 209,232  | 0,321     |  |
| 7,348                            | 210,048  | 1,447      |  |            | 5,900    | 208,601   | 0,00  | 328+14.194 | 208,601  | 208,705   | -0,104 |        |              |              |               | 5,900      | 208,424  | -3,00     |  | 5,900      | 208,224  | -3,00     |  | 6,058      | 208,582  | 0,158     |  |
| 7,354                            | 209,911  | 1,454      |  |            | 5,900    | 208,457   | 0,95  | 329+0.000  | 208,401  | 208,456   | -0,055 |        |              |              |               | 5,900      | 208,224  | -3,00     |  | 5,900      | 207,796  | -3,00     |  | 6,981      | 209,305  | 1,081     |  |
| 7,322                            | 209,747  | 1,422      |  |            | 5,900    | 208,325   | 1,84  | 329+5.394  | 208,216  | 208,231   | -0,015 |        |              |              |               | 5,900      | 207,796  | -3,00     |  | 5,900      | 207,464  | -4,24     |  | 5,992      | 208,131  | 0,092     |  |
| 7,163                            | 209,414  | 1,264      |  |            | 5,900    | 208,150   | 3,00  | 329+12.455 | 207,973  | 207,902   | 0,071  |        |              |              |               | 5,900      | 207,464  | -4,24     |  | 5,900      | 207,368  | -4,60     |  | 5,927      | 207,779  | -0,017    |  |
| 6,935                            | 209,000  | 1,036      |  |            | 5,900    | 207,964   | 4,24  | 330+0.000  | 207,714  | 207,550   | 0,164  |        |              |              |               | 5,900      | 207,368  | -4,60     |  | 5,900      | 207,070  | -4,60     |  | 5,907      | 207,472  | 0,008     |  |
| 6,881                            | 208,891  | 0,981      |  |            | 5,900    | 207,910   | 4,60  | 330+2.194  | 207,639  | 207,485   | 0,154  |        |              |              |               | 5,900      | 207,070  | -4,60     |  | 5,900      | 206,756  | -4,60     |  | 5,949      | 207,417  | 0,049     |  |
| 6,007                            | 207,406  | 0,108      |  |            | 5,900    | 207,298   | 4,60  | 331+0.000  | 207,027  | 206,845   | 0,182  |        |              |              |               | 5,900      | 206,756  | -4,60     |  | 5,900      | 206,412  | -4,60     |  | 6,194      | 207,050  | 0,294     |  |
| 6,290                            | 206,695  | -0,259     |  |            | 5,900    | 206,954   | 4,60  | 331+10.020 | 206,683  | 206,524   | 0,159  |        |              |              |               | 5,900      | 206,412  | -4,60     |  | 5,900      | 206,070  | -4,60     |  | 6,895      | 207,407  | 0,995     |  |
| 6,829                            | 205,992  | -0,620     |  |            | 5,900    | 206,612   | 4,60  | 332+0.000  | 206,341  | 205,889   | 0,452  |        |              |              |               | 5,900      | 206,070  | -4,60     |  | 5,900      | 205,457  | -4,60     |  | 6,857      | 207,027  | 0,957     |  |
| 6,740                            | 205,439  | -0,560     |  |            | 5,900    | 205,999   | 4,60  | 332+17.847 | 205,728  | 204,909   | 0,819  |        |              |              |               | 5,900      | 205,457  | -4,60     |  | 5,900      | 205,070  | -4,60     |  | 6,820      | 206,376  | 0,919     |  |
| 6,557                            | 205,460  | -0,438     |  |            | 5,900    | 205,898   | 4,13  | 333+0.000  | 205,654  | 204,884   | 0,770  |        |              |              |               | 5,900      | 205,070  | -4,60     |  | 5,900      | 204,904  | 0,96      |  | 6,622      | 206,132  | 0,722     |  |
| 6,253                            | 204,972  | -0,236     |  |            | 5,900    | 205,208   | 0,96  | 333+14.647 | 205,151  | 204,859   | 0,292  |        |              |              |               | 5,900      | 204,979  | 0,20      |  | 5,900      | 204,979  | 0,20      |  | 6,226      | 205,420  | 0,326     |  |
| 6,411                            | 204,614  | -0,341     |  |            | 5,900    | 204,955   | -0,20 | 334+0.000  | 204,967  | 204,422   | 0,545  |        |              |              |               | 5,900      | 204,979  | 0,20      |  | 5,900      | 204,904  | 0,96      |  | 6,245      | 205,323  | 0,344     |  |
| 6,565                            | 204,347  | -0,443     |  |            | 5,900    | 204,790   | -0,96 | 334+3.490  | 204,847  | 204,126   | 0,721  |        |              |              |               | 5,900      | 204,904  | 0,96      |  | 5,900      | 204,904  | 0,96      |  | 6,257      | 205,260  | 0,356     |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |            |          |           |            |              |              |               |            |          |              |            |          |           |        |
|---------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|--------------|--------------|---------------|------------|----------|--------------|------------|----------|-----------|--------|
| Offset        |          |            |            |          |           |            |          |           |            | Eixo         |              |               |            |          |              |            |          |           |        |
| Banqueta      |          |            |            |          | Bordo     |            |          |           |            | Cota         |              |               |            |          | Lado Direito |            |          |           |        |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%)    | Afast. (m) | Cota (m) | Incl. (%) | Offset |
| 6,507         | 204,032  | -0,404     |            |          | -2,59     | 5,900      | 204,436  | -2,59     | 334+11,000 | 204,589      | 203,543      | 1,046         | 5,900      | 204,742  | 2,59         | 5,967      | 204,809  | 0,067     |        |
| 6,438         | 203,661  | -0,359     |            |          | -4,54     | 5,900      | 204,020  | -4,54     | 335+0,000  | 204,288      | 203,029      | 1,259         | 5,900      | 204,556  | 4,54         | 6,455      | 204,185  | -0,371    |        |
| 6,437         | 203,649  | -0,358     |            |          | -4,60     | 5,900      | 204,007  | -4,60     | 335+0,290  | 204,278      | 203,013      | 1,265         | 5,900      | 204,549  | 4,60         | 6,468      | 204,171  | -0,378    |        |
| 6,538         | 202,977  | -0,426     |            |          | -4,60     | 5,900      | 203,403  | -4,60     | 336+0,000  | 203,674      | 201,988      | 1,686         | 5,900      | 203,945  | 4,60         | 7,157      | 203,107  | -0,838    |        |
| 6,937         | 202,173  | -0,692     |            |          | -4,60     | 5,900      | 202,865  | -4,60     | 337+0,000  | 203,136      | 201,648      | 1,488         | 5,900      | 203,407  | 4,60         | 8,167      | 201,897  | -1,510    |        |
| 8,722         | 200,523  | -1,882     |            |          | -4,60     | 5,900      | 202,405  | -4,60     | 338+0,000  | 202,676      | 201,315      | 1,361         | 5,900      | 202,947  | 4,60         | 9,073      | 200,831  | -2,116    |        |
| 8,723         | 200,521  | -1,883     |            |          | -4,60     | 5,900      | 202,404  | -4,60     | 338+0,028  | 202,675      | 201,315      | 1,360         | 5,900      | 202,946  | 4,60         | 9,071      | 200,832  | -2,114    |        |
| 7,703         | 200,818  | -1,202     |            |          | -4,60     | 5,900      | 202,020  | -4,60     | 339+0,000  | 202,291      | 201,374      | 0,917         | 5,900      | 202,562  | 4,60         | 7,210      | 201,689  | -0,873    |        |
| 6,289         | 201,453  | -0,260     |            |          | -4,60     | 5,900      | 201,713  | -4,60     | 340+0,000  | 201,984      | 201,442      | 0,542         | 5,900      | 202,255  | 4,60         | 6,221      | 202,041  | -0,214    |        |
| 5,937         | 201,521  | 0,037      |            |          | -4,60     | 5,900      | 201,484  | -4,60     | 340+19,766 | 201,755      | 201,557      | 0,198         | 5,900      | 202,026  | 4,60         | 6,428      | 202,554  | 0,528     |        |
| 5,940         | 201,523  | 0,040      |            |          | -4,58     | 5,900      | 201,483  | -4,58     | 341+0,000  | 201,753      | 201,560      | 0,193         | 5,900      | 202,023  | 4,58         | 6,420      | 202,543  | 0,520     |        |
| 6,085         | 201,625  | 0,185      |            |          | -3,04     | 5,900      | 201,440  | -3,04     | 341+16,566 | 201,619      | 201,666      | -0,047        | 5,900      | 201,798  | 3,04         | 6,556      | 202,455  | 0,657     |        |
| 6,110         | 201,648  | 0,210      |            |          | -2,72     | 5,900      | 201,438  | -2,72     | 342+0,000  | 201,598      | 201,580      | 0,018         | 5,900      | 201,758  | 2,72         | 6,623      | 202,482  | 0,724     |        |
| 6,037         | 201,582  | 0,136      |            |          | -1,70     | 5,900      | 201,446  | -1,70     | 342+11,000 | 201,546      | 201,535      | 0,011         | 5,900      | 201,646  | 1,70         | 6,763      | 202,509  | 0,863     |        |
| 5,955         | 201,517  | 0,055      |            |          | -0,86     | 5,900      | 201,462  | -0,86     | 343+0,000  | 201,513      | 201,509      | 0,004         | 5,900      | 201,564  | 0,86         | 7,233      | 202,897  | 1,333     |        |
| 6,249         | 201,265  | -0,233     |            |          | 1,00      | 5,900      | 201,498  | 1,00      | 344+0,000  | 201,439      | 201,167      | 0,272         | 5,900      | 201,380  | -1,00        | 5,974      | 201,453  | 0,073     |        |
| 6,618         | 201,035  | -0,479     |            |          | 1,85      | 5,900      | 201,514  | 1,85      | 344+9,178  | 201,405      | 200,812      | 0,593         | 5,900      | 201,296  | -1,85        | 6,201      | 201,597  | 0,301     |        |
| 6,863         | 200,890  | -0,642     |            |          | 2,80      | 5,900      | 201,532  | 2,80      | 344+19,378 | 201,367      | 200,747      | 0,620         | 5,900      | 201,202  | -2,80        | 6,379      | 201,681  | 0,479     |        |
| 6,881         | 200,882  | -0,653     |            |          | 2,90      | 5,900      | 201,535  | 2,90      | 345+0,000  | 201,364      | 200,760      | 0,604         | 5,900      | 201,193  | -2,90        | 6,380      | 201,673  | 0,480     |        |
| 6,899         | 200,873  | -0,666     |            |          | 3,00      | 5,900      | 201,539  | 3,00      | 345+0,592  | 201,362      | 200,773      | 0,589         | 5,900      | 201,185  | -3,00        | 6,381      | 201,666  | 0,481     |        |
| 6,966         | 200,757  | -0,710     |            |          | 3,00      | 5,900      | 201,467  | 3,00      | 346+0,000  | 201,290      | 200,930      | 0,360         | 5,900      | 201,113  | -3,00        | 6,863      | 202,076  | 0,963     |        |
| 7,077         | 200,582  | -0,785     |            |          | 3,00      | 5,900      | 201,367  | 3,00      | 347+0,000  | 201,190      | 200,738      | 0,452         | 5,900      | 201,013  | -3,00        | 6,791      | 201,904  | 0,891     |        |
| 6,929         | 200,558  | -0,686     |            |          | 3,00      | 5,900      | 201,244  | 3,00      | 347+16,471 | 201,067      | 200,782      | 0,285         | 5,900      | 200,890  | -3,00        | 6,250      | 201,240  | 0,350     |        |
| 7,035         | 200,457  | -0,756     |            |          | 3,00      | 5,900      | 201,213  | 3,00      | 348+0,000  | 201,036      | 200,585      | 0,451         | 5,900      | 200,859  | -3,00        | 6,005      | 200,964  | 0,105     |        |
| 6,122         | 200,858  | -0,148     |            |          | 3,00      | 5,900      | 201,006  | 3,00      | 349+0,000  | 200,829      | 200,432      | 0,397         | 5,900      | 200,652  | -3,00        | 5,958      | 200,613  | -0,039    |        |
| 6,088         | 200,620  | -0,126     |            |          | 3,00      | 5,900      | 200,746  | 3,00      | 350+0,000  | 200,569      | 200,400      | 0,169         | 5,900      | 200,392  | -3,00        | 6,284      | 200,776  | 0,384     |        |
| 5,986         | 200,645  | 0,086      |            |          | 3,00      | 5,900      | 200,559  | 3,00      | 350+12,349 | 200,382      | 200,302      | 0,080         | 5,900      | 200,205  | -3,00        | 6,491      | 200,796  | 0,591     |        |
| 5,961         | 200,589  | 0,062      |            |          | 2,80      | 5,900      | 200,527  | 2,80      | 350+13,564 | 200,362      | 200,283      | 0,079         | 5,900      | 200,197  | -2,80        | 6,420      | 200,717  | 0,520     |        |
| 6,450         | 199,992  | -0,366     |            |          | 1,74      | 5,900      | 200,358  | 1,74      | 351+0,000  | 200,255      | 200,052      | 0,203         | 5,900      | 200,085  | -2,88        | 6,126      | 200,312  | 0,227     |        |
| 6,286         | 200,000  | -0,256     |            |          | 1,12      | 5,900      | 200,256  | 1,12      | 351+3,764  | 200,190      | 199,917      | 0,273         | 5,900      | 200,018  | -2,92        | 5,960      | 200,078  | 0,060     |        |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |            |            |          |           |            |          |           | Lado Direito |          |           |            |          |           |            |          |           |            |          |            |
|---------------|----------|------------|------------|----------|------------|------------|----------|-----------|------------|----------|-----------|--------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|------------|
| Offset        |          |            |            |          |            | Banqueta   |          |           |            |          |           | Bordo        |          |           |            |          |           | Banqueta   |          |           |            |          |            |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |
| 6.006         | 199,998  | -0,070     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 5,972         | 199,749  | -0,049     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,092         | 199,776  | 0,192      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,069         | 199,461  | 0,169      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,111         | 199,030  | 0,211      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,105         | 198,825  | 0,206      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 5,949         | 198,382  | 0,049      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,742         | 197,354  | -0,561     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 8,147         | 196,074  | -1,497     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 7,885         | 195,979  | -1,323     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 8,191         | 195,581  | -1,527     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 8,452         | 195,286  | -1,701     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 8,392         | 195,299  | -1,661     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 8,282         | 195,340  | -1,588     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 8,438         | 195,183  | -1,692     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 7,639         | 195,662  | -1,160     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 7,839         | 195,522  | -1,292     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 7,616         | 195,722  | -1,145     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 7,193         | 196,246  | -0,862     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,619         | 197,068  | -0,479     |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,229         | 198,511  | 0,329      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,005         | 199,119  | 0,105      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,061         | 200,203  | 0,160      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,524         | 201,794  | 0,624      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,949         | 203,347  | 1,050      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,865         | 204,390  | 0,966      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,879         | 205,136  | 0,979      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 7,010         | 205,656  | 1,110      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,713         | 206,405  | 0,813      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |
| 6,687         | 207,329  | 0,787      |            |          |            |            |          |           |            |          |           |              |          |           |            |          |           |            |          |           |            |          |            |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |  |            |          |           |  |            |              |              |               | Lado Direito |          |           |  |            |          |           |  |            |          |            |  |
|---------------|----------|------------|--|------------|----------|-----------|--|------------|--------------|--------------|---------------|--------------|----------|-----------|--|------------|----------|-----------|--|------------|----------|------------|--|
| Offset        |          |            |  | Bordo      |          |           |  | Eixo       |              |              |               | Bordo        |          |           |  | Banqueta   |          |           |  | Offset     |          |            |  |
| Afast. (m)    | Cota (m) | Altura (m) |  | Afast. (m) | Cota (m) | Incl. (%) |  | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m)   | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Altura (m) |  |
| 6.442         | 207,583  | 0,541      |  | 5,900      | 207,042  | -3,00     |  | 375+11,407 | 207,219      | 206,973      | 0,246         | 5,900        | 207,042  | -3,00     |  | 6,076      | 207,218  |           |  | 6,076      | 207,218  | 0,176      |  |
| 6.213         | 207,712  | 0,314      |  | 5,900      | 207,398  | -3,00     |  | 376+0,000  | 207,575      | 207,145      | 0,430         | 5,900        | 207,398  | -3,00     |  | 5,971      | 207,351  |           |  | 5,971      | 207,351  | -0,047     |  |
| 5,967         | 208,114  | -0,044     |  | 5,900      | 208,158  | -3,00     |  | 377+0,000  | 208,335      | 207,598      | 0,737         | 5,900        | 208,158  | -3,00     |  | 6,074      | 208,333  |           |  | 6,074      | 208,333  | 0,175      |  |
| 5,967         | 208,233  | -0,045     |  | 5,900      | 208,278  | -3,00     |  | 377+3,407  | 208,455      | 207,677      | 0,778         | 5,900        | 208,278  | -3,00     |  | 6,291      | 208,669  |           |  | 6,291      | 208,669  | 0,391      |  |
| 6,679         | 208,467  | -0,519     |  | 5,900      | 208,986  | -0,23     |  | 378+0,000  | 209,000      | 208,194      | 0,806         | 5,900        | 208,823  | -3,00     |  | 6,772      | 209,694  |           |  | 6,772      | 209,694  | 0,871      |  |
| 6,734         | 208,487  | -0,556     |  | 5,900      | 209,043  | 0,00      |  | 378+1,407  | 209,043      | 208,248      | 0,795         | 5,900        | 208,866  | -3,00     |  | 6,758      | 209,724  |           |  | 6,758      | 209,724  | 0,858      |  |
| 7,121         | 208,916  | -0,815     |  | 5,900      | 209,731  | 3,00      |  | 378+19,407 | 209,554      | 209,117      | 0,437         | 5,900        | 209,377  | -3,00     |  | 6,491      | 209,967  |           |  | 6,491      | 209,967  | 0,590      |  |
| 7,136         | 208,928  | -0,824     |  | 5,900      | 209,752  | 3,10      |  | 379+0,000  | 209,569      | 209,193      | 0,376         | 5,900        | 209,386  | -3,10     |  | 6,486      | 209,972  |           |  | 6,486      | 209,972  | 0,586      |  |
| 7,394         | 209,150  | -0,996     |  | 5,900      | 210,146  | 5,00      |  | 379+11,407 | 209,851      | 209,895      | -0,044        | 5,900        | 209,556  | -5,00     |  | 6,549      | 210,205  |           |  | 6,549      | 210,205  | 0,649      |  |
| 7,616         | 209,195  | -1,144     |  | 5,900      | 210,339  | 5,00      |  | 380+0,000  | 210,044      | 209,992      | 0,052         | 5,900        | 209,749  | -5,00     |  | 6,435      | 210,284  |           |  | 6,435      | 210,284  | 0,535      |  |
| 7,999         | 209,318  | -1,399     |  | 5,900      | 210,717  | 5,00      |  | 381+0,000  | 210,422      | 210,503      | -0,081        | 5,900        | 210,127  | -5,00     |  | 6,223      | 210,450  |           |  | 6,223      | 210,450  | 0,323      |  |
| 6,557         | 210,475  | -0,438     |  | 5,900      | 210,913  | 5,00      |  | 381+13,000 | 210,618      | 210,644      | -0,026        | 5,900        | 210,323  | -5,00     |  | 6,150      | 210,572  |           |  | 6,150      | 210,572  | 0,249      |  |
| 6,061         | 211,167  | 0,160      |  | 5,900      | 211,007  | 5,00      |  | 382+0,000  | 210,712      | 210,717      | -0,005        | 5,900        | 210,417  | -5,00     |  | 6,142      | 210,659  |           |  | 6,142      | 210,659  | 0,242      |  |
| 6,011         | 211,198  | 0,110      |  | 5,900      | 211,088  | 5,00      |  | 382+6,000  | 210,793      | 210,764      | 0,029         | 5,900        | 210,498  | -5,00     |  | 6,116      | 210,714  |           |  | 6,116      | 210,714  | 0,216      |  |
| 6,941         | 210,570  | -0,694     |  | 5,900      | 211,264  | 5,00      |  | 383+0,000  | 210,969      | 210,907      | 0,062         | 5,900        | 210,674  | -5,00     |  | 6,103      | 210,877  |           |  | 6,103      | 210,877  | 0,203      |  |
| 6,121         | 211,253  | -0,148     |  | 5,900      | 211,401  | 5,00      |  | 383+12,464 | 211,106      | 211,100      | 0,006         | 5,900        | 210,811  | -5,00     |  | 6,134      | 211,045  |           |  | 6,134      | 211,045  | 0,234      |  |
| 5,981         | 211,420  | -0,054     |  | 5,900      | 211,474  | 5,00      |  | 384+0,000  | 211,179      | 211,177      | 0,002         | 5,900        | 210,884  | -5,00     |  | 6,149      | 211,133  |           |  | 6,149      | 211,133  | 0,249      |  |
| 7,569         | 210,522  | -1,113     |  | 5,900      | 211,635  | 5,00      |  | 385+0,000  | 211,340      | 211,628      | -0,288        | 5,900        | 211,045  | -5,00     |  | 6,169      | 211,313  |           |  | 6,169      | 211,313  | 0,268      |  |
| 7,055         | 210,976  | -0,770     |  | 5,900      | 211,746  | 5,00      |  | 386+0,000  | 211,451      | 211,204      | 0,247         | 5,900        | 211,156  | -5,00     |  | 6,355      | 211,611  |           |  | 6,355      | 211,611  | 0,455      |  |
| 7,008         | 211,069  | -0,739     |  | 5,900      | 211,808  | 5,00      |  | 387+0,000  | 211,513      | 211,117      | 0,396         | 5,900        | 211,218  | -5,00     |  | 6,688      | 212,005  |           |  | 6,688      | 212,005  | 0,787      |  |
| 7,045         | 211,053  | -0,763     |  | 5,900      | 211,816  | 5,00      |  | 387+6,000  | 211,521      | 211,269      | 0,252         | 5,900        | 211,226  | -5,00     |  | 6,743      | 212,069  |           |  | 6,743      | 212,069  | 0,843      |  |
| 6,274         | 211,575  | -0,250     |  | 5,900      | 211,825  | 5,00      |  | 387+13,520 | 211,530      | 211,386      | 0,144         | 5,900        | 211,235  | -5,00     |  | 6,479      | 211,814  |           |  | 6,479      | 211,814  | 0,579      |  |
| 6,185         | 212,053  | 0,285      |  | 5,900      | 211,768  | 3,92      |  | 388+0,000  | 211,537      | 211,213      | 0,324         | 5,900        | 211,306  | -3,92     |  | 5,949      | 211,273  |           |  | 5,949      | 211,273  | -0,033     |  |
| 6,421         | 212,241  | 0,521      |  | 5,900      | 211,720  | 3,00      |  | 388+5,520  | 211,543      | 211,193      | 0,350         | 5,900        | 211,366  | -3,00     |  | 6,096      | 211,236  |           |  | 6,096      | 211,236  | -0,130     |  |
| 6,419         | 212,114  | 0,520      |  | 5,900      | 211,594  | 0,59      |  | 389+0,000  | 211,559      | 211,493      | 0,066         | 5,900        | 211,382  | -3,00     |  | 6,021      | 211,302  |           |  | 6,021      | 211,302  | -0,080     |  |
| 6,494         | 212,157  | 0,594      |  | 5,900      | 211,563  | 0,00      |  | 389+3,520  | 211,563      | 211,536      | 0,027         | 5,900        | 211,386  | -3,00     |  | 5,990      | 211,327  |           |  | 5,990      | 211,327  | -0,059     |  |
| 6,743         | 212,263  | 0,843      |  | 5,900      | 211,420  | -2,75     |  | 390+0,000  | 211,582      | 211,620      | -0,038        | 5,900        | 211,405  | -3,00     |  | 6,033      | 211,538  |           |  | 6,033      | 211,538  | 0,133      |  |
| 6,765         | 212,271  | 0,865      |  | 5,900      | 211,406  | -3,00     |  | 390+1,520  | 211,583      | 211,634      | -0,051        | 5,900        | 211,406  | -3,00     |  | 6,061      | 211,567  |           |  | 6,061      | 211,567  | 0,161      |  |
| 6,751         | 212,265  | 0,851      |  | 5,900      | 211,414  | -3,00     |  | 390+17,462 | 211,591      | 211,610      | -0,019        | 5,900        | 211,414  | -3,00     |  | 6,372      | 211,886  |           |  | 6,372      | 211,886  | 0,472      |  |
| 6,746         | 212,260  | 0,846      |  | 5,900      | 211,414  | -3,00     |  | 391+0,000  | 211,591      | 211,623      | -0,032        | 5,900        | 211,414  | -3,00     |  | 6,379      | 211,893  |           |  | 6,379      | 211,893  | 0,479      |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |         |          |  |            |  |            |         |            |  |            |         |              |        |              |         |               |  |            |         | Lado Direito |  |            |         |            |  |            |         |            |  |
|---------------|---------|----------|--|------------|--|------------|---------|------------|--|------------|---------|--------------|--------|--------------|---------|---------------|--|------------|---------|--------------|--|------------|---------|------------|--|------------|---------|------------|--|
| Offset        |         |          |  |            |  |            |         |            |  | Eixo       |         |              |        |              |         |               |  |            |         | Bordo        |  |            |         |            |  |            |         |            |  |
| Afast. (m)    |         | Cota (m) |  | Altura (m) |  | Banqueta   |         | Bordo      |  | Estaca     |         | Cota Projeto |        | Cota Terreno |         | Cota Vermelha |  | Banqueta   |         | Bordo        |  | Banqueta   |         | Bordo      |  | Banqueta   |         | Offset     |  |
| Afast. (m)    |         | Cota (m) |  | Altura (m) |  | Afast. (m) |         | Afast. (m) |  |            |         | Afast. (m)   |        | Cota Terreno |         | Cota Vermelha |  | Afast. (m) |         | Afast. (m)   |  | Afast. (m) |         | Afast. (m) |  | Afast. (m) |         | Afast. (m) |  |
| 6,777         | 212,283 | 0,877    |  |            |  | 5,900      | 211,406 | -3,00      |  | 391+13,520 | 211,583 | 211,649      | -0,066 | 5,900        | 211,406 | -3,00         |  | 6,207      | 211,713 | 0,307        |  | 6,313      | 211,812 | 0,414      |  | 6,389      | 211,846 | 0,489      |  |
| 6,885         | 212,383 | 0,985    |  |            |  | 5,900      | 211,398 | -3,00      |  | 392+0,000  | 211,575 | 211,621      | -0,046 | 5,900        | 211,398 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,988         | 212,445 | 1,088    |  |            |  | 5,900      | 211,357 | -3,00      |  | 393+0,000  | 211,534 | 211,684      | -0,150 | 5,900        | 211,357 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,824         | 212,214 | 0,924    |  |            |  | 5,900      | 211,290 | -3,00      |  | 394+0,000  | 211,467 | 211,368      | 0,099  | 5,900        | 211,290 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,742         | 212,039 | 0,842    |  |            |  | 5,900      | 211,197 | -3,00      |  | 395+0,000  | 211,374 | 211,026      | 0,348  | 5,900        | 211,197 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,577         | 211,755 | 0,676    |  |            |  | 5,900      | 211,079 | -3,00      |  | 396+0,000  | 211,256 | 211,064      | 0,192  | 5,900        | 211,079 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,595         | 211,630 | 0,695    |  |            |  | 5,900      | 210,935 | -3,00      |  | 397+0,000  | 211,112 | 210,688      | 0,424  | 5,900        | 210,935 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 5,953         | 210,819 | 0,053    |  |            |  | 5,900      | 210,766 | -3,00      |  | 398+0,000  | 210,943 | 210,278      | 0,665  | 5,900        | 210,766 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 5,927         | 210,565 | -0,019   |  |            |  | 5,900      | 210,584 | -3,00      |  | 399+0,000  | 210,761 | 209,686      | 1,075  | 5,900        | 210,584 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 5,998         | 210,491 | -0,065   |  |            |  | 5,900      | 210,556 | -3,00      |  | 399+3,000  | 210,733 | 209,667      | 1,066  | 5,900        | 210,556 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,658         | 209,912 | -0,505   |  |            |  | 5,900      | 210,417 | -3,00      |  | 400+0,000  | 210,594 | 209,700      | 0,894  | 5,900        | 210,417 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,420         | 209,279 | -1,013   |  |            |  | 5,900      | 210,292 | -3,00      |  | 401+0,000  | 210,469 | 209,738      | 0,731  | 5,900        | 210,292 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,477         | 209,159 | -1,051   |  |            |  | 5,900      | 210,210 | -3,00      |  | 402+0,000  | 210,387 | 209,731      | 0,656  | 5,900        | 210,210 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,889         | 208,844 | -1,326   |  |            |  | 5,900      | 210,170 | -3,00      |  | 403+0,000  | 210,347 | 209,847      | 0,500  | 5,900        | 210,170 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 8,074         | 208,717 | -1,449   |  |            |  | 5,900      | 210,166 | -3,00      |  | 403+8,740  | 210,343 | 210,048      | 0,295  | 5,900        | 210,166 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,889         | 208,847 | -1,326   |  |            |  | 5,900      | 210,173 | -3,00      |  | 404+0,000  | 210,350 | 209,954      | 0,396  | 5,900        | 210,173 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,450         | 209,184 | -1,034   |  |            |  | 5,900      | 210,218 | -3,00      |  | 405+0,000  | 210,395 | 209,875      | 0,520  | 5,900        | 210,218 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,409         | 209,222 | -1,006   |  |            |  | 5,900      | 210,228 | -3,00      |  | 405+3,000  | 210,405 | 209,910      | 0,495  | 5,900        | 210,228 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,547         | 209,859 | -0,431   |  |            |  | 5,900      | 210,290 | -3,00      |  | 406+0,000  | 210,467 | 209,879      | 0,588  | 5,900        | 210,290 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,198         | 210,164 | -0,199   |  |            |  | 5,900      | 210,363 | -3,00      |  | 407+0,000  | 210,540 | 210,116      | 0,424  | 5,900        | 210,363 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 5,926         | 210,462 | 0,026    |  |            |  | 5,900      | 210,436 | -3,00      |  | 408+0,000  | 210,613 | 210,386      | 0,227  | 5,900        | 210,436 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 5,923         | 210,532 | 0,023    |  |            |  | 5,900      | 210,509 | -3,00      |  | 409+0,000  | 210,686 | 210,450      | 0,236  | 5,900        | 210,509 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 6,666         | 210,071 | -0,510   |  |            |  | 5,900      | 210,581 | -3,00      |  | 410+0,000  | 210,758 | 210,390      | 0,368  | 5,900        | 210,581 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,285         | 209,705 | -0,924   |  |            |  | 5,900      | 210,629 | -3,00      |  | 410+13,000 | 210,806 | 210,383      | 0,423  | 5,900        | 210,629 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,576         | 209,538 | -1,117   |  |            |  | 5,900      | 210,655 | -3,00      |  | 411+0,000  | 210,832 | 210,359      | 0,473  | 5,900        | 210,655 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 8,202         | 209,212 | -1,535   |  |            |  | 5,900      | 210,747 | -3,00      |  | 412+0,000  | 210,924 | 210,428      | 0,496  | 5,900        | 210,747 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 8,387         | 209,203 | -1,658   |  |            |  | 5,900      | 210,861 | -3,00      |  | 413+0,000  | 211,038 | 210,296      | 0,742  | 5,900        | 210,861 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 8,371         | 209,350 | -1,647   |  |            |  | 5,900      | 210,997 | -3,00      |  | 414+0,000  | 211,174 | 210,467      | 0,707  | 5,900        | 210,997 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 8,217         | 209,611 | -1,545   |  |            |  | 5,900      | 211,156 | -3,00      |  | 415+0,000  | 211,333 | 210,623      | 0,710  | 5,900        | 211,156 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |
| 7,899         | 210,003 | -1,333   |  |            |  | 5,900      | 211,336 | -3,00      |  | 416+0,000  | 211,513 | 210,900      | 0,613  | 5,900        | 211,336 | -3,00         |  | 6,217      | 211,607 | 0,317        |  | 6,323      | 211,707 | 0,417      |  | 6,399      | 211,741 | 0,499      |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |            |          |           |            | Eixo     |           |              |              |               |            | Lado Direito |           |            |          |           |            |          |           |            |          |            |
|---------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|--------------|--------------|---------------|------------|--------------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|------------|
| Offset        |          |            | Banqueta   |          |           |            | Bordo    |           |            | Estaca   |           | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo      |              |           | Banqueta   |          |           |            | Offset   |           |            |          |            |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m)   | Cota (m)     | Incl. (%)     | Afast. (m) | Cota (m)     | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |
| 7,076         | 210,755  | -0,784     |            |          | -3,00     | 5,900      | 211,539  | -3,00     | 417+0,000  | 211,716  |           | 210,863      | 0,853        |               | 5,900      | 211,539      | -3,00     | 6,490      | 211,146  | -0,393    |            |          |           |            |          |            |
| 6,362         | 211,457  | -0,307     |            |          | -3,00     | 5,900      | 211,764  | -3,00     | 418+0,000  | 211,941  |           | 211,489      | 0,452        |               | 5,900      | 211,764      | -3,00     | 6,138      | 211,605  | -0,159    |            |          |           |            |          |            |
| 6,019         | 211,843  | -0,080     |            |          | -3,00     | 5,900      | 211,923  | -3,00     | 418+13,000 | 212,100  |           | 211,760      | 0,340        |               | 5,900      | 211,923      | -3,00     | 5,974      | 211,997  | 0,074     |            |          |           |            |          |            |
| 6,022         | 211,929  | -0,081     |            |          | -3,00     | 5,900      | 212,010  | -3,00     | 419+0,000  | 212,187  |           | 211,901      | 0,286        |               | 5,900      | 212,010      | -3,00     | 5,928      | 211,992  | -0,018    |            |          |           |            |          |            |
| 6,186         | 212,547  | 0,286      |            |          | -3,00     | 5,900      | 212,261  | -3,00     | 420+0,000  | 212,438  |           | 212,295      | 0,143        |               | 5,900      | 212,261      | -3,00     | 6,390      | 211,935  | -0,326    |            |          |           |            |          |            |
| 6,388         | 213,000  | 0,488      |            |          | -3,00     | 5,900      | 212,512  | -3,00     | 421+0,000  | 212,689  |           | 212,682      | 0,007        |               | 5,900      | 212,512      | -3,00     | 6,334      | 212,946  | 0,434     |            |          |           |            |          |            |
| 6,273         | 213,135  | 0,372      |            |          | -3,00     | 5,900      | 212,763  | -3,00     | 422+0,000  | 212,940  |           | 212,951      | -0,011       |               | 5,900      | 212,763      | -3,00     | 6,227      | 213,089  | 0,326     |            |          |           |            |          |            |
| 6,436         | 213,550  | 0,537      |            |          | -3,00     | 5,900      | 213,013  | -3,00     | 423+0,000  | 213,190  |           | 213,188      | 0,002        |               | 5,900      | 213,013      | -3,00     | 6,116      | 213,229  | 0,216     |            |          |           |            |          |            |
| 6,270         | 213,634  | 0,370      |            |          | -3,00     | 5,900      | 213,264  | -3,00     | 424+0,000  | 213,441  |           | 213,368      | 0,073        |               | 5,900      | 213,264      | -3,00     | 6,508      | 213,873  | 0,609     |            |          |           |            |          |            |
| 6,133         | 213,748  | 0,233      |            |          | -3,00     | 5,900      | 213,515  | -3,00     | 425+0,000  | 213,692  |           | 213,520      | 0,172        |               | 5,900      | 213,515      | -3,00     | 6,449      | 214,064  | 0,549     |            |          |           |            |          |            |
| 5,918         | 213,754  | -0,012     |            |          | -3,00     | 5,900      | 213,766  | -3,00     | 426+0,000  | 213,943  |           | 213,633      | 0,310        |               | 5,900      | 213,766      | -3,00     | 6,028      | 213,680  | -0,086    |            |          |           |            |          |            |
| 5,999         | 214,066  | 0,100      |            |          | -3,00     | 5,900      | 213,966  | -3,00     | 426+16,000 | 214,143  |           | 213,736      | 0,407        |               | 5,900      | 213,966      | -3,00     | 6,024      | 214,090  | 0,124     |            |          |           |            |          |            |
| 6,054         | 214,169  | 0,154      |            |          | -3,00     | 5,900      | 214,015  | -3,00     | 427+0,000  | 214,192  |           | 213,780      | 0,412        |               | 5,900      | 214,015      | -3,00     | 6,068      | 214,183  | 0,168     |            |          |           |            |          |            |
| 6,480         | 214,791  | 0,581      |            |          | -3,00     | 5,900      | 214,210  | -3,00     | 428+0,000  | 214,387  |           | 214,385      | 0,002        |               | 5,900      | 214,210      | -3,00     | 6,047      | 214,357  | 0,147     |            |          |           |            |          |            |
| 7,126         | 215,553  | 1,227      |            |          | -3,00     | 5,900      | 214,326  | -3,00     | 429+0,000  | 214,503  |           | 215,254      | -0,751       |               | 5,900      | 214,326      | -3,00     | 7,209      | 215,635  | 1,309     |            |          |           |            |          |            |
| 7,670         | 216,133  | 1,770      |            |          | -3,00     | 5,900      | 214,363  | -3,00     | 429+19,261 | 214,540  |           | 215,737      | -1,197       |               | 5,900      | 214,363      | -3,00     | 7,162      | 215,625  | 1,262     |            |          |           |            |          |            |
| 7,684         | 216,147  | 1,784      |            |          | -3,00     | 5,900      | 214,363  | -3,00     | 430+0,000  | 214,540  |           | 215,748      | -1,208       |               | 5,900      | 214,363      | -3,00     | 7,169      | 215,632  | 1,269     |            |          |           |            |          |            |
| 8,074         | 216,495  | 2,175      |            |          | -3,00     | 5,900      | 214,320  | -3,00     | 431+0,000  | 214,497  |           | 215,850      | -1,353       |               | 5,900      | 214,320      | -3,00     | 7,655      | 216,076  | 1,756     |            |          |           |            |          |            |
| 8,356         | 216,655  | 2,457      |            |          | -3,00     | 5,900      | 214,198  | -3,00     | 432+0,000  | 214,375  |           | 215,886      | -1,511       |               | 5,900      | 214,198      | -3,00     | 7,926      | 216,225  | 2,027     |            |          |           |            |          |            |
| 8,208         | 216,305  | 2,308      |            |          | -3,00     | 5,900      | 213,997  | -3,00     | 433+0,000  | 214,174  |           | 215,493      | -1,319       |               | 5,900      | 213,997      | -3,00     | 7,923      | 216,020  | 2,023     |            |          |           |            |          |            |
| 8,329         | 216,146  | 2,429      |            |          | -3,00     | 5,900      | 213,717  | -3,00     | 434+0,000  | 213,894  |           | 215,317      | -1,423       |               | 5,900      | 213,717      | -3,00     | 7,746      | 215,563  | 1,846     |            |          |           |            |          |            |
| 8,478         | 215,935  | 2,578      |            |          | -3,00     | 5,900      | 213,357  | -3,00     | 435+0,000  | 213,534  |           | 215,120      | -1,586       |               | 5,900      | 213,357      | -3,00     | 7,876      | 215,333  | 1,976     |            |          |           |            |          |            |
| 8,309         | 215,328  | 2,410      |            |          | -3,00     | 5,900      | 212,918  | -3,00     | 436+0,000  | 213,095  |           | 214,863      | -1,768       |               | 5,900      | 212,918      | -3,00     | 8,026      | 215,045  | 2,127     |            |          |           |            |          |            |
| 8,519         | 215,019  | 2,619      |            |          | -3,00     | 5,900      | 212,400  | -3,00     | 437+0,000  | 212,577  |           | 214,272      | -1,695       |               | 5,900      | 212,400      | -3,00     | 7,861      | 214,361  | 1,961     |            |          |           |            |          |            |
| 8,433         | 214,335  | 2,533      |            |          | -3,00     | 5,900      | 211,802  | -3,00     | 438+0,000  | 211,979  |           | 213,477      | -1,498       |               | 5,900      | 211,802      | -3,00     | 8,417      | 214,319  | 2,517     |            |          |           |            |          |            |
| 7,915         | 213,282  | 2,015      |            |          | -3,00     | 5,900      | 211,267  | -3,00     | 438+16,000 | 211,444  |           | 212,665      | -1,221       |               | 5,900      | 211,267      | -3,00     | 8,112      | 213,479  | 2,212     |            |          |           |            |          |            |
| 7,867         | 213,094  | 1,967      |            |          | -3,00     | 5,900      | 211,127  | -3,00     | 439+0,000  | 211,304  |           | 212,465      | -1,161       |               | 5,900      | 211,127      | -3,00     | 8,028      | 213,255  | 2,128     |            |          |           |            |          |            |
| 7,632         | 212,223  | 1,731      |            |          | -3,00     | 5,900      | 210,492  | -3,00     | 440+0,000  | 210,669  |           | 211,351      | -0,682       |               | 5,900      | 210,492      | -3,00     | 7,174      | 211,765  | 1,273     |            |          |           |            |          |            |
| 6,036         | 210,122  | 0,136      |            |          | -3,00     | 5,900      | 209,986  | -3,00     | 441+0,000  | 210,163  |           | 210,154      | 0,009        |               | 5,900      | 209,986      | -3,00     | 5,950      | 210,036  | 0,050     |            |          |           |            |          |            |
| 7,099         | 208,812  | -0,799     |            |          | -3,00     | 5,900      | 209,611  | -3,00     | 442+0,000  | 209,788  |           | 209,121      | 0,667        |               | 5,900      | 209,611      | -3,00     | 6,600      | 209,144  | -0,467    |            |          |           |            |          |            |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |            |          |           |            | Eixo          |              |              |        |          | Lado Direito |            |          |           |            |          |           |            |          |           |
|---------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|---------------|--------------|--------------|--------|----------|--------------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|
| Offset        |          |            | Banqueta   |          |           |            | Bordo    |           |            | Cota Vermelha | Cota Terreno | Cota Projeto | Estaca | Bordo    |              |            | Banqueta |           |            |          | Offset    |            |          |           |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) |               |              |              |        | Cota (m) | Incl. (%)    | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) |
| 8.907         | 207,361  | -2,004     |            | 5,900    | 209,365   | -3,00      | 5,900    | 209,365   | -3,00      | 443+0,000     | 209,542      | 208,422      | 1,120  | 5,900    | 209,365      | -3,00      | 5,900    | 209,365   | -3,00      | 7,451    | 208,331   | -1,034     |          |           |
| 10,489        | 206,191  | -3,059     |            | 5,900    | 209,250   | -3,00      | 5,900    | 209,250   | -3,00      | 444+0,000     | 209,427      | 206,890      | 2,537  | 5,900    | 209,250      | -3,00      | 5,900    | 209,250   | -3,00      | 9,424    | 206,901   | -2,349     |          |           |
| 10,403        | 206,238  | -3,002     |            | 5,900    | 209,240   | -3,00      | 5,900    | 209,240   | -3,00      | 444+7,735     | 209,417      | 207,462      | 1,955  | 5,900    | 209,240      | -3,00      | 5,900    | 209,240   | -3,00      | 8,892    | 207,246   | -1,994     |          |           |
| 9,169         | 207,086  | -2,179     |            | 5,900    | 209,265   | -3,00      | 5,900    | 209,265   | -3,00      | 445+0,000     | 209,442      | 208,061      | 1,381  | 5,900    | 209,265      | -3,00      | 5,900    | 209,265   | -3,00      | 8,518    | 207,519   | -1,746     |          |           |
| 7,328         | 208,458  | -0,952     |            | 5,900    | 209,410   | -3,00      | 5,900    | 209,410   | -3,00      | 446+0,000     | 209,587      | 208,708      | 0,879  | 5,900    | 209,410      | -3,00      | 5,900    | 209,410   | -3,00      | 7,307    | 208,472   | -0,938     |          |           |
| 6,019         | 209,605  | -0,079     |            | 5,900    | 209,684   | -3,00      | 5,900    | 209,684   | -3,00      | 447+0,000     | 209,861      | 209,057      | 0,804  | 5,900    | 209,684      | -3,00      | 5,900    | 209,684   | -3,00      | 6,585    | 209,228   | -0,456     |          |           |
| 6,513         | 210,703  | 0,614      |            | 5,900    | 210,089   | -3,00      | 5,900    | 210,089   | -3,00      | 448+0,000     | 210,266      | 209,959      | 0,307  | 5,900    | 210,089      | -3,00      | 5,900    | 210,089   | -3,00      | 6,464    | 209,714   | -0,375     |          |           |
| 6,235         | 210,675  | 0,335      |            | 5,900    | 210,340   | -3,00      | 5,900    | 210,340   | -3,00      | 448+9,989     | 210,517      | 210,355      | 0,162  | 5,900    | 210,340      | -3,00      | 5,900    | 210,340   | -3,00      | 6,278    | 210,088   | -0,252     |          |           |
| 6,358         | 210,640  | 0,029      |            | 6,329    | 210,611   | -3,00      | 6,329    | 210,611   | -3,00      | 449+0,000     | 210,801      | 210,558      | 0,243  | 6,329    | 210,611      | -3,00      | 6,329    | 210,611   | -3,00      | 6,463    | 210,522   | -0,089     |          |           |
| 8,134         | 210,554  | -0,631     |            | 7,186    | 211,185   | -3,00      | 7,186    | 211,185   | -3,00      | 450+0,000     | 211,401      | 210,942      | 0,459  | 7,186    | 211,185      | -3,00      | 7,186    | 211,185   | -3,00      | 7,438    | 211,018   | -0,167     |          |           |
| 8,781         | 211,268  | -0,492     |            | 8,043    | 211,760   | -3,00      | 8,043    | 211,760   | -3,00      | 451+0,000     | 212,001      | 211,544      | 0,457  | 8,043    | 211,760      | -3,00      | 8,043    | 211,760   | -3,00      | 8,114    | 211,713   | -0,047     |          |           |
| 8,669         | 211,915  | -0,132     |            | 8,472    | 212,047   | -3,00      | 8,472    | 212,047   | -3,00      | 451+10,000    | 212,301      | 211,854      | 0,447  | 8,472    | 212,047      | -3,00      | 8,472    | 212,047   | -3,00      | 8,587    | 212,162   | 0,115      |          |           |
| 9,028         | 212,228  | -0,085     |            | 8,900    | 212,313   | -3,00      | 8,900    | 212,313   | -3,00      | 451+19,989    | 212,580      | 212,349      | 0,231  | 8,900    | 212,313      | -3,00      | 8,900    | 212,313   | -3,00      | 9,479    | 212,892   | 0,579      |          |           |
| 9,028         | 212,228  | -0,085     |            | 8,900    | 212,313   | -3,00      | 8,900    | 212,313   | -3,00      | 452+0,000     | 212,580      | 212,349      | 0,231  | 8,900    | 212,313      | -3,00      | 8,900    | 212,313   | -3,00      | 9,480    | 212,893   | 0,580      |          |           |
| 9,102         | 212,948  | 0,202      |            | 8,900    | 212,746   | -3,00      | 8,900    | 212,746   | -3,00      | 453+0,000     | 213,013      | 213,426      | -0,413 | 8,900    | 212,746      | -3,00      | 8,900    | 212,746   | -3,00      | 10,128   | 213,974   | 1,228      |          |           |
| 10,406        | 214,518  | 1,506      |            | 8,900    | 213,012   | -3,00      | 8,900    | 213,012   | -3,00      | 454+0,000     | 213,279      | 214,142      | -0,863 | 8,900    | 213,012      | -3,00      | 8,900    | 213,012   | -3,00      | 10,505   | 214,617   | 1,605      |          |           |
| 10,406        | 214,519  | 1,507      |            | 8,900    | 213,012   | -3,00      | 8,900    | 213,012   | -3,00      | 454+0,011     | 213,279      | 214,142      | -0,863 | 8,900    | 213,012      | -3,00      | 8,900    | 213,012   | -3,00      | 10,505   | 214,617   | 1,605      |          |           |
| 9,089         | 214,182  | 1,045      |            | 8,043    | 213,137   | -3,00      | 8,043    | 213,137   | -3,00      | 455+0,000     | 213,378      | 214,261      | -0,883 | 8,043    | 213,137      | -3,00      | 8,043    | 213,137   | -3,00      | 9,670    | 214,763   | 1,626      |          |           |
| 8,966         | 214,140  | 1,000      |            | 7,965    | 213,140   | -3,00      | 7,965    | 213,140   | -3,00      | 455+1,832     | 213,379      | 214,247      | -0,868 | 7,965    | 213,140      | -3,00      | 7,965    | 213,140   | -3,00      | 9,545    | 214,720   | 1,580      |          |           |
| 8,174         | 214,082  | 0,988      |            | 7,186    | 213,094   | -3,00      | 7,186    | 213,094   | -3,00      | 456+0,000     | 213,310      | 214,010      | -0,700 | 7,186    | 213,094      | -3,00      | 7,186    | 213,094   | -3,00      | 8,330    | 214,238   | 1,144      |          |           |
| 7,003         | 213,554  | 0,674      |            | 6,329    | 212,880   | -3,00      | 6,329    | 212,880   | -3,00      | 457+0,000     | 213,070      | 213,597      | -0,527 | 6,329    | 212,880      | -3,00      | 6,329    | 212,880   | -3,00      | 6,696    | 213,246   | 0,366      |          |           |
| 6,360         | 213,158  | 0,461      |            | 5,900    | 212,697   | -3,00      | 5,900    | 212,697   | -3,00      | 457+10,011    | 212,874      | 213,260      | -0,386 | 5,900    | 212,697      | -3,00      | 5,900    | 212,697   | -3,00      | 6,107    | 212,904   | 0,207      |          |           |
| 6,280         | 212,832  | 0,381      |            | 5,900    | 212,451   | -3,00      | 5,900    | 212,451   | -3,00      | 458+0,000     | 212,628      | 212,771      | -0,143 | 5,900    | 212,451      | -3,00      | 5,916    | 212,451   | -3,00      | 5,916    | 212,467   | 0,016      |          |           |
| 6,330         | 212,233  | 0,430      |            | 5,900    | 211,803   | -3,00      | 5,900    | 211,803   | -3,00      | 459+0,000     | 211,980      | 211,736      | 0,244  | 5,900    | 211,803      | -3,00      | 6,576    | 211,803   | -3,00      | 6,576    | 211,353   | -0,450     |          |           |
| 6,084         | 210,827  | -0,122     |            | 5,900    | 210,949   | -3,00      | 5,900    | 210,949   | -3,00      | 460+0,000     | 211,126      | 210,610      | 0,516  | 5,900    | 210,949      | -3,00      | 7,097    | 210,949   | -3,00      | 7,097    | 210,152   | -0,797     |          |           |
| 6,037         | 209,798  | -0,091     |            | 5,900    | 209,889   | -3,00      | 5,900    | 209,889   | -3,00      | 461+0,000     | 210,066      | 209,598      | 0,468  | 5,900    | 209,889      | -3,00      | 7,382    | 209,889   | -3,00      | 7,382    | 208,901   | -0,988     |          |           |
| 6,002         | 208,658  | -0,068     |            | 5,900    | 208,726   | -3,00      | 5,900    | 208,726   | -3,00      | 462+0,000     | 208,903      | 208,547      | 0,356  | 5,900    | 208,726      | -3,00      | 7,538    | 208,726   | -3,00      | 7,538    | 207,634   | -1,092     |          |           |
| 6,139         | 208,383  | 0,239      |            | 5,900    | 208,144   | -3,00      | 5,900    | 208,144   | -3,00      | 462+10,000    | 208,321      | 207,832      | 0,489  | 5,900    | 208,144      | -3,00      | 7,614    | 208,144   | -3,00      | 7,614    | 207,001   | -1,143     |          |           |
| 6,000         | 207,525  | -0,067     |            | 5,900    | 207,592   | -3,00      | 5,900    | 207,592   | -3,00      | 463+0,000     | 207,769      | 207,457      | 0,312  | 5,900    | 207,592      | -3,00      | 7,460    | 207,592   | -3,00      | 7,460    | 206,552   | -1,040     |          |           |
| 6,672         | 206,151  | -0,515     |            | 5,900    | 206,666   | -3,00      | 5,900    | 206,666   | -3,00      | 464+0,000     | 206,843      | 206,583      | 0,260  | 5,900    | 206,666      | -3,00      | 7,525    | 206,666   | -3,00      | 7,525    | 205,583   | -1,083     |          |           |



## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |            |          |           |            |          |           | Lado Direito |              |              |               |            |          |           |            |          |           |            |          |
|---------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|--------------|--------------|--------------|---------------|------------|----------|-----------|------------|----------|-----------|------------|----------|
| Offset        |          |            |            |          |           | Bordo      |          |           |            |          |           | Eixo         |              |              |               |            |          | Bordo     |            |          |           |            |          |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Estaca       | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) |
|               |          |            |            |          |           |            |          |           |            |          |           |              |              |              |               |            |          |           |            |          |           |            |          |
| 7.338         | 205,020  | -0,958     |            |          | -3,00     | 5,900      | 205,978  | -3,00     | 465+0,000  | 206,155  | 205,907   | 0,248        | 205,907      | 0,248        | 5,900         | 205,978    | -3,00    | 5,900     | 205,978    | -3,00    | 7,667     | 204,800    | -1,178   |
| 7.240         | 204,621  | -0,894     |            |          | -3,00     | 5,900      | 205,515  | -3,00     | 466+0,000  | 205,692  | 205,361   | 0,331        | 205,361      | 0,331        | 5,900         | 205,515    | -3,00    | 5,900     | 205,515    | -3,00    | 7,990     | 204,121    | -1,394   |
| 7.813         | 203,922  | -1,276     |            |          | -3,00     | 5,900      | 205,198  | -3,00     | 467+0,000  | 205,375  | 205,037   | 0,338        | 205,037      | 0,338        | 5,900         | 205,198    | -3,00    | 5,900     | 205,198    | -3,00    | 8,007     | 203,793    | -1,405   |
| 8.264         | 203,439  | -1,575     |            |          | -3,00     | 5,900      | 205,014  | -3,00     | 468+0,000  | 205,191  | 204,751   | 0,440        | 204,751      | 0,440        | 5,900         | 205,014    | -3,00    | 5,900     | 205,014    | -3,00    | 7,670     | 203,835    | -1,179   |
| 9.124         | 202,814  | -2,150     |            |          | -3,00     | 5,900      | 204,964  | -3,00     | 468+17,425 | 205,141  | 204,536   | 0,605        | 204,536      | 0,605        | 5,900         | 204,964    | -3,00    | 5,900     | 204,964    | -3,00    | 8,776     | 203,046    | -1,918   |
| 9.200         | 202,765  | -2,200     |            |          | -3,00     | 5,900      | 204,965  | -3,00     | 469+0,000  | 205,142  | 204,464   | 0,678        | 204,464      | 0,678        | 5,900         | 204,965    | -3,00    | 5,900     | 204,965    | -3,00    | 8,840     | 203,004    | -1,961   |
| 9.327         | 202,706  | -2,284     |            |          | -3,00     | 5,900      | 204,990  | -3,00     | 469+10,000 | 205,167  | 204,473   | 0,694        | 204,473      | 0,694        | 5,900         | 204,990    | -3,00    | 5,900     | 204,990    | -3,00    | 8,973     | 202,941    | -2,049   |
| 9.310         | 202,759  | -2,273     |            |          | -3,00     | 5,900      | 205,032  | -3,00     | 470+0,000  | 205,209  | 204,495   | 0,714        | 204,495      | 0,714        | 5,900         | 205,032    | -3,00    | 5,900     | 205,032    | -3,00    | 8,834     | 203,076    | -1,956   |
| 9.550         | 202,683  | -2,433     |            |          | -3,00     | 5,900      | 205,116  | -3,00     | 471+0,000  | 205,293  | 204,544   | 0,749        | 204,544      | 0,749        | 5,900         | 205,116    | -3,00    | 5,900     | 205,116    | -3,00    | 9,252     | 202,881    | -2,235   |
| 9.262         | 202,959  | -2,241     |            |          | -3,00     | 5,900      | 205,200  | -3,00     | 472+0,000  | 205,377  | 204,519   | 0,858        | 204,519      | 0,858        | 5,900         | 205,200    | -3,00    | 5,900     | 205,200    | -3,00    | 9,739     | 202,641    | -2,559   |
| 8.993         | 203,222  | -2,062     |            |          | -3,00     | 5,900      | 205,284  | -3,00     | 473+0,000  | 205,461  | 204,551   | 0,910        | 204,551      | 0,910        | 5,900         | 205,284    | -3,00    | 5,900     | 205,284    | -3,00    | 9,717     | 202,739    | -2,545   |
| 9.021         | 203,287  | -2,081     |            |          | -3,00     | 5,900      | 205,368  | -3,00     | 474+0,000  | 205,545  | 204,712   | 0,833        | 204,712      | 0,833        | 5,900         | 205,368    | -3,00    | 5,900     | 205,368    | -3,00    | 8,392     | 203,707    | -1,661   |
| 9.290         | 203,241  | -2,260     |            |          | -3,00     | 5,900      | 205,501  | -3,00     | 475+0,000  | 205,678  | 204,941   | 0,737        | 204,941      | 0,737        | 5,900         | 205,501    | -3,00    | 5,900     | 205,501    | -3,00    | 8,168     | 203,989    | -1,512   |
| 9.047         | 203,632  | -2,098     |            |          | -3,00     | 5,900      | 205,730  | -3,00     | 476+0,000  | 205,907  | 205,015   | 0,892        | 205,015      | 0,892        | 5,900         | 205,730    | -3,00    | 5,900     | 205,730    | -3,00    | 8,298     | 204,131    | -1,599   |
| 8.640         | 204,229  | -1,827     |            |          | -3,00     | 5,900      | 206,056  | -3,00     | 477+0,000  | 206,233  | 205,210   | 1,023        | 205,210      | 1,023        | 5,900         | 206,056    | -3,00    | 5,900     | 206,056    | -3,00    | 8,153     | 204,554    | -1,502   |
| 8.180         | 204,959  | -1,520     |            |          | -3,00     | 5,900      | 206,479  | -3,00     | 478+0,000  | 206,656  | 205,689   | 0,967        | 205,689      | 0,967        | 5,900         | 206,479    | -3,00    | 5,900     | 206,479    | -3,00    | 8,133     | 204,991    | -1,488   |
| 7.572         | 205,884  | -1,115     |            |          | -3,00     | 5,900      | 206,999  | -3,00     | 479+0,000  | 207,176  | 206,370   | 0,806        | 206,370      | 0,806        | 5,900         | 206,999    | -3,00    | 5,900     | 206,999    | -3,00    | 7,256     | 206,095    | -0,904   |
| 6.409         | 207,277  | -0,339     |            |          | -3,00     | 5,900      | 207,616  | -3,00     | 480+0,000  | 207,793  | 206,926   | 0,867        | 206,926      | 0,867        | 5,900         | 207,616    | -3,00    | 5,900     | 207,616    | -3,00    | 6,743     | 207,054    | -0,562   |
| 6.505         | 208,934  | 0,605      |            |          | -3,00     | 5,900      | 208,329  | -3,00     | 481+0,000  | 208,506  | 207,964   | 0,542        | 207,964      | 0,542        | 5,900         | 208,329    | -3,00    | 5,900     | 208,329    | -3,00    | 6,341     | 208,035    | -0,294   |
| 7.290         | 210,482  | 1,391      |            |          | -3,00     | 5,900      | 209,091  | -3,00     | 482+0,000  | 209,268  | 209,184   | 0,084        | 209,184      | 0,084        | 5,900         | 209,091    | -3,00    | 5,900     | 209,091    | -3,00    | 6,316     | 208,814    | -0,277   |
| 6.812         | 210,765  | 0,911      |            |          | -3,00     | 5,900      | 209,854  | -3,00     | 483+0,000  | 210,031  | 210,083   | -0,052       | 210,083      | -0,052       | 5,900         | 209,854    | -3,00    | 5,900     | 209,854    | -3,00    | 6,194     | 210,148    | 0,294    |
| 6.825         | 211,540  | 0,924      |            |          | -3,00     | 5,900      | 210,616  | -3,00     | 484+0,000  | 210,793  | 211,047   | -0,254       | 211,047      | -0,254       | 5,900         | 210,616    | -3,00    | 5,900     | 210,616    | -3,00    | 6,079     | 210,795    | 0,179    |
| 7.770         | 213,197  | 1,819      |            |          | -3,00     | 5,900      | 211,378  | -3,00     | 485+0,000  | 211,555  | 211,925   | -0,370       | 211,925      | -0,370       | 5,900         | 211,378    | -3,00    | 5,900     | 211,378    | -3,00    | 6,019     | 211,497    | 0,119    |
| 7.758         | 213,998  | 1,858      |            |          | -3,00     | 5,900      | 212,140  | -3,00     | 486+0,000  | 212,317  | 212,493   | -0,176       | 212,493      | -0,176       | 5,900         | 212,140    | -3,00    | 5,900     | 212,140    | -3,00    | 6,132     | 212,372    | 0,232    |
| 7.337         | 214,339  | 1,437      |            |          | -3,00     | 5,900      | 212,902  | -3,00     | 487+0,000  | 213,079  | 213,073   | 0,006        | 213,073      | 0,006        | 5,900         | 212,902    | -3,00    | 5,900     | 212,902    | -3,00    | 6,417     | 213,419    | 0,517    |
| 7.222         | 214,985  | 1,321      |            |          | -3,00     | 5,900      | 213,664  | -3,00     | 488+0,000  | 213,841  | 213,758   | 0,083        | 213,758      | 0,083        | 5,900         | 213,664    | -3,00    | 5,900     | 213,664    | -3,00    | 6,339     | 214,102    | 0,438    |
| 6.488         | 215,014  | 0,588      |            |          | -3,00     | 5,900      | 214,426  | -3,00     | 489+0,000  | 214,603  | 214,350   | 0,253        | 214,350      | 0,253        | 5,900         | 214,426    | -3,00    | 5,900     | 214,426    | -3,00    | 6,281     | 214,172    | -0,254   |
| 6.758         | 216,046  | 0,858      |            |          | -3,00     | 5,900      | 215,188  | -3,00     | 490+0,000  | 215,365  | 215,016   | 0,349        | 215,016      | 0,349        | 5,900         | 215,188    | -3,00    | 5,900     | 215,188    | -3,00    | 6,126     | 215,037    | -0,151   |
| 6.783         | 216,833  | 0,883      |            |          | -3,00     | 5,900      | 215,950  | -3,00     | 491+0,000  | 216,127  | 215,914   | 0,213        | 215,914      | 0,213        | 5,900         | 215,950    | -3,00    | 5,900     | 215,950    | -3,00    | 6,699     | 216,749    | 0,799    |
| 6.902         | 217,447  | 1,002      |            |          | -3,00     | 5,900      | 216,445  | -3,00     | 491+13,000 | 216,622  | 216,575   | 0,047        | 216,575      | 0,047        | 5,900         | 216,445    | -3,00    | 5,900     | 216,445    | -3,00    | 6,016     | 216,368    | -0,077   |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |            |          |           |            | Eixo     |           |              |              |               |            | Lado Direito |           |            |          |           |            |          |            |
|---------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|--------------|--------------|---------------|------------|--------------|-----------|------------|----------|-----------|------------|----------|------------|
| Offset        |          |            | Banqueta   |          |           |            | Bordo    |           |            | Estaca   |           | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo      |              |           | Banqueta   |          |           | Offset     |          |            |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m)   | Cota (m)     | Incl. (%)     | Afast. (m) | Cota (m)     | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |
| 6,791         | 217,599  | 0,891      |            |          | -3,00     | 5,900      | 216,708  | -3,00     | 492+0,000  | 216,885  |           | 216,908      | -0,023       | -3,00         | 5,900      | 216,708      | -3,00     |            |          |           | 6,025      | 216,625  | -0,083     |
| 6,807         | 218,323  | 0,907      |            |          | -3,00     | 5,900      | 217,416  | -3,00     | 493+0,000  | 217,593  |           | 217,864      | -0,271       | -3,00         | 5,900      | 217,416      | -3,00     |            |          |           | 7,014      | 218,530  | 1,114      |
| 6,997         | 219,158  | 1,097      |            |          | -3,00     | 5,900      | 218,061  | -3,00     | 494+0,000  | 218,238  |           | 218,637      | -0,399       | -3,00         | 5,900      | 218,061      | -3,00     |            |          |           | 7,154      | 219,315  | 1,254      |
| 7,451         | 220,193  | 1,551      |            |          | -3,00     | 5,900      | 218,642  | -3,00     | 495+0,000  | 218,819  |           | 219,379      | -0,560       | -3,00         | 5,900      | 218,642      | -3,00     |            |          |           | 6,545      | 219,287  | 0,645      |
| 7,402         | 220,661  | 1,502      |            |          | -3,00     | 5,900      | 219,159  | -3,00     | 496+0,000  | 219,336  |           | 219,933      | -0,597       | -3,00         | 5,900      | 219,159      | -3,00     |            |          |           | 6,533      | 219,793  | 0,634      |
| 7,518         | 221,232  | 1,618      |            |          | -3,00     | 5,900      | 219,614  | -3,00     | 497+0,000  | 219,791  |           | 220,464      | -0,673       | -3,00         | 5,900      | 219,614      | -3,00     |            |          |           | 7,302      | 221,016  | 1,402      |
| 7,257         | 221,361  | 1,357      |            |          | -3,00     | 5,900      | 220,004  | -3,00     | 498+0,000  | 220,181  |           | 220,809      | -0,628       | -3,00         | 5,900      | 220,004      | -3,00     |            |          |           | 7,264      | 221,368  | 1,364      |
| 6,963         | 221,395  | 1,064      |            |          | -3,00     | 5,900      | 220,331  | -3,00     | 499+0,000  | 220,508  |           | 220,957      | -0,449       | -3,00         | 5,900      | 220,331      | -3,00     |            |          |           | 7,028      | 221,460  | 1,129      |
| 6,940         | 221,635  | 1,040      |            |          | -3,00     | 5,900      | 220,595  | -3,00     | 500+0,000  | 220,772  |           | 220,931      | -0,159       | -3,00         | 5,900      | 220,595      | -3,00     |            |          |           | 6,974      | 221,669  | 1,074      |
| 6,318         | 221,213  | 0,418      |            |          | -3,00     | 5,900      | 220,795  | -3,00     | 501+0,000  | 220,972  |           | 221,005      | -0,033       | -3,00         | 5,900      | 220,795      | -3,00     |            |          |           | 6,623      | 221,519  | 0,724      |
| 6,109         | 221,100  | 0,209      |            |          | -3,00     | 5,900      | 220,891  | -3,00     | 501+13,000 | 221,068  |           | 221,011      | 0,057        | -3,00         | 5,900      | 220,891      | -3,00     |            |          |           | 6,069      | 221,061  | 0,170      |
| 5,939         | 220,975  | 0,039      |            |          | -3,00     | 5,900      | 220,936  | -3,00     | 502+0,000  | 221,113  |           | 220,997      | 0,116        | -3,00         | 5,900      | 220,936      | -3,00     |            |          |           | 6,171      | 221,207  | 0,271      |
| 6,108         | 220,924  | -0,139     |            |          | -3,00     | 5,900      | 221,063  | -3,00     | 503+0,000  | 221,240  |           | 220,897      | 0,343        | -3,00         | 5,900      | 221,063      | -3,00     |            |          |           | 5,969      | 221,132  | 0,069      |
| 6,009         | 221,118  | -0,072     |            |          | -3,00     | 5,900      | 221,190  | -3,00     | 504+0,000  | 221,367  |           | 220,805      | 0,562        | -3,00         | 5,900      | 221,190      | -3,00     |            |          |           | 6,099      | 221,389  | 0,199      |
| 6,787         | 220,727  | -0,591     |            |          | -3,00     | 5,900      | 221,318  | -3,00     | 505+0,000  | 221,495  |           | 220,849      | 0,646        | -3,00         | 5,900      | 221,318      | -3,00     |            |          |           | 6,185      | 221,128  | -0,190     |
| 6,551         | 221,011  | -0,434     |            |          | -3,00     | 5,900      | 221,445  | -3,00     | 506+0,000  | 221,622  |           | 220,911      | 0,711        | -3,00         | 5,900      | 221,445      | -3,00     |            |          |           | 6,163      | 221,708  | 0,263      |
| 7,060         | 220,799  | -0,773     |            |          | -3,00     | 5,900      | 221,572  | -3,00     | 507+0,000  | 221,749  |           | 220,949      | 0,800        | -3,00         | 5,900      | 221,572      | -3,00     |            |          |           | 6,011      | 221,498  | -0,074     |
| 7,482         | 220,645  | -1,054     |            |          | -3,00     | 5,900      | 221,699  | -3,00     | 508+0,000  | 221,876  |           | 221,024      | 0,852        | -3,00         | 5,900      | 221,699      | -3,00     |            |          |           | 6,487      | 221,308  | -0,391     |
| 7,684         | 220,637  | -1,190     |            |          | -3,00     | 5,900      | 221,827  | -3,00     | 509+0,000  | 222,004  |           | 221,130      | 0,874        | -3,00         | 5,900      | 221,827      | -3,00     |            |          |           | 7,220      | 220,946  | -0,881     |
| 6,809         | 221,348  | -0,606     |            |          | -3,00     | 5,900      | 221,954  | -3,00     | 510+0,000  | 222,131  |           | 221,587      | 0,544        | -3,00         | 5,900      | 221,954      | -3,00     |            |          |           | 6,141      | 221,793  | -0,161     |
| 5,901         | 222,080  | -0,001     |            |          | -3,00     | 5,900      | 222,081  | -3,00     | 511+0,000  | 222,258  |           | 222,281      | -0,023       | -3,00         | 5,900      | 222,081      | -3,00     |            |          |           | 6,377      | 222,558  | 0,477      |
| 7,370         | 223,678  | 1,470      |            |          | -3,00     | 5,900      | 222,208  | -3,00     | 512+0,000  | 222,385  |           | 223,361      | -0,976       | -3,00         | 5,900      | 222,208      | -3,00     |            |          |           | 7,573      | 223,881  | 1,673      |
| 8,528         | 224,963  | 2,627      |            |          | -3,00     | 5,900      | 222,336  | -3,00     | 513+0,000  | 222,513  |           | 224,505      | -1,992       | -3,00         | 5,900      | 222,336      | -3,00     |            |          |           | 8,700      | 225,136  | 2,800      |
| 8,303         | 224,866  | 2,403      |            |          | -3,00     | 5,900      | 222,463  | -3,00     | 514+0,000  | 222,640  |           | 224,699      | -2,059       | -3,00         | 5,900      | 222,463      | -3,00     |            |          |           | 8,903      | 225,466  | 3,003      |
| 7,423         | 224,113  | 1,523      |            |          | -3,00     | 5,900      | 222,590  | -3,00     | 515+0,000  | 222,767  |           | 224,313      | -1,546       | -3,00         | 5,900      | 222,590      | -3,00     |            |          |           | 7,876      | 224,566  | 1,976      |
| 6,904         | 223,721  | 1,004      |            |          | -3,00     | 5,900      | 222,717  | -3,00     | 516+0,000  | 222,894  |           | 223,999      | -1,105       | -3,00         | 5,900      | 222,717      | -3,00     |            |          |           | 7,915      | 224,732  | 2,015      |
| 6,235         | 223,179  | 0,335      |            |          | -3,00     | 5,900      | 222,844  | -3,00     | 517+0,000  | 223,021  |           | 223,987      | -0,966       | -3,00         | 5,900      | 222,844      | -3,00     |            |          |           | 7,103      | 224,048  | 1,204      |
| 6,737         | 223,809  | 0,837      |            |          | -3,00     | 5,900      | 222,972  | -3,00     | 518+0,000  | 223,149  |           | 223,629      | -0,480       | -3,00         | 5,900      | 222,972      | -3,00     |            |          |           | 7,114      | 224,186  | 1,214      |
| 7,312         | 224,511  | 1,412      |            |          | -3,00     | 5,900      | 223,099  | -3,00     | 519+0,000  | 223,276  |           | 224,586      | -1,310       | -3,00         | 5,900      | 223,099      | -3,00     |            |          |           | 7,808      | 225,007  | 1,908      |
| 7,826         | 225,152  | 1,926      |            |          | -3,00     | 5,900      | 223,226  | -3,00     | 520+0,000  | 223,403  |           | 225,366      | -1,963       | -3,00         | 5,900      | 223,226      | -3,00     |            |          |           | 8,426      | 225,753  | 2,527      |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |           |          |            |            |              |              |               |           |          | Lado Direito |          |            |          |           |          |            |          |           |          |            |          |
|---------------|----------|------------|-----------|----------|------------|------------|--------------|--------------|---------------|-----------|----------|--------------|----------|------------|----------|-----------|----------|------------|----------|-----------|----------|------------|----------|
| Offset        |          |            |           |          |            | Eixo       |              |              |               |           |          | Bordo        |          |            |          |           |          | Banqueta   |          |           |          |            |          |
| Afast. (m)    | Cota (m) | Altura (m) | Incl. (%) | Cota (m) | Afast. (m) | Estat. (m) | Cota Projeto | Cota Terreno | Cota Vermelha | Incl. (%) | Cota (m) | Afast. (m)   | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Cota (m) | Afast. (m) | Cota (m) |
|               |          |            |           |          |            |            |              |              |               |           |          |              |          |            |          |           |          |            |          |           |          |            |          |
| 8,903         | 226,356  | 3,003      | -3,00     | 223,353  | 5,900      | 521+0.000  | 223,530      | 226,071      | -2,541        | -3,00     | 223,353  | 5,900        | 223,353  | -3,00      | 223,353  | -3,00     | 223,353  | 5,900      | 223,353  | -3,00     | 223,353  | 5,900      | 223,353  |
| 8,565         | 226,145  | 2,664      | -3,00     | 223,481  | 5,900      | 522+0.000  | 223,658      | 226,059      | -2,401        | -3,00     | 223,481  | 5,900        | 223,481  | -3,00      | 223,481  | -3,00     | 223,481  | 5,900      | 223,481  | -3,00     | 223,481  | 5,900      | 223,481  |
| 8,272         | 225,979  | 2,371      | -3,00     | 223,608  | 5,900      | 523+0.000  | 223,785      | 225,229      | -1,444        | -3,00     | 223,608  | 5,900        | 223,608  | -3,00      | 223,608  | -3,00     | 223,608  | 5,900      | 223,608  | -3,00     | 223,608  | 5,900      | 223,608  |
| 6,312         | 224,147  | 0,412      | -3,00     | 223,735  | 5,900      | 524+0.000  | 223,912      | 224,188      | -0,276        | -3,00     | 223,735  | 5,900        | 223,735  | -3,00      | 223,735  | -3,00     | 223,735  | 5,900      | 223,735  | -3,00     | 223,735  | 5,900      | 223,735  |
| 7,502         | 222,795  | -1,067     | -3,00     | 223,862  | 5,900      | 525+0.000  | 224,039      | 222,771      | 1,268         | -3,00     | 223,862  | 5,900        | 223,862  | -3,00      | 223,862  | -3,00     | 223,862  | 5,900      | 223,862  | -3,00     | 223,862  | 5,900      | 223,862  |
| 11,557        | 220,218  | -3,772     | -3,00     | 223,990  | 5,900      | 526+0.000  | 224,167      | 221,671      | 2,496         | -3,00     | 223,990  | 5,900        | 223,990  | -3,00      | 223,990  | -3,00     | 223,990  | 5,900      | 223,990  | -3,00     | 223,990  | 5,900      | 223,990  |
| 12,438        | 219,758  | -4,359     | -3,00     | 224,117  | 5,900      | 527+0.000  | 224,294      | 221,159      | 3,135         | -3,00     | 224,117  | 5,900        | 224,117  | -3,00      | 224,117  | -3,00     | 224,117  | 5,900      | 224,117  | -3,00     | 224,117  | 5,900      | 224,117  |
| 10,826        | 220,960  | -3,284     | -3,00     | 224,244  | 5,900      | 528+0.000  | 224,421      | 221,392      | 3,029         | -3,00     | 224,244  | 5,900        | 224,244  | -3,00      | 224,244  | -3,00     | 224,244  | 5,900      | 224,244  | -3,00     | 224,244  | 5,900      | 224,244  |
| 9,204         | 222,168  | -2,203     | -3,00     | 224,371  | 5,900      | 529+0.000  | 224,548      | 222,599      | 1,949         | -3,00     | 224,371  | 5,900        | 224,371  | -3,00      | 224,371  | -3,00     | 224,371  | 5,900      | 224,371  | -3,00     | 224,371  | 5,900      | 224,371  |
| 6,529         | 224,079  | -0,419     | -3,00     | 224,498  | 5,900      | 530+0.000  | 224,675      | 224,543      | 0,132         | -3,00     | 224,498  | 5,900        | 224,498  | -3,00      | 224,498  | -3,00     | 224,498  | 5,900      | 224,498  | -3,00     | 224,498  | 5,900      | 224,498  |
| 8,062         | 226,788  | 2,162      | -3,00     | 224,626  | 5,900      | 531+0.000  | 224,803      | 226,525      | -1,722        | -3,00     | 224,626  | 5,900        | 224,626  | -3,00      | 224,626  | -3,00     | 224,626  | 5,900      | 224,626  | -3,00     | 224,626  | 5,900      | 224,626  |
| 10,329        | 229,181  | 4,428      | -3,00     | 224,753  | 5,900      | 532+0.000  | 224,930      | 227,876      | -2,946        | -3,00     | 224,753  | 5,900        | 224,753  | -3,00      | 224,753  | -3,00     | 224,753  | 5,900      | 224,753  | -3,00     | 224,753  | 5,900      | 224,753  |
| 10,591        | 229,571  | 4,691      | -3,00     | 224,880  | 5,900      | 533+0.000  | 225,057      | 228,734      | -3,677        | -3,00     | 224,880  | 5,900        | 224,880  | -3,00      | 224,880  | -3,00     | 224,880  | 5,900      | 224,880  | -3,00     | 224,880  | 5,900      | 224,880  |
| 10,987        | 230,094  | 5,087      | -3,00     | 225,007  | 5,900      | 534+0.000  | 225,184      | 229,010      | -3,826        | -3,00     | 225,007  | 5,900        | 225,007  | -3,00      | 225,007  | -3,00     | 225,007  | 5,900      | 225,007  | -3,00     | 225,007  | 5,900      | 225,007  |
| 10,467        | 229,667  | 4,567      | -3,00     | 225,100  | 5,900      | 535+0.000  | 225,277      | 228,840      | -3,563        | -3,00     | 225,100  | 5,900        | 225,100  | -3,00      | 225,100  | -3,00     | 225,100  | 5,900      | 225,100  | -3,00     | 225,100  | 5,900      | 225,100  |
| 10,466        | 229,667  | 4,567      | -3,00     | 225,100  | 5,900      | 534+14.598 | 225,277      | 228,840      | -3,563        | -3,00     | 225,100  | 5,900        | 225,100  | -3,00      | 225,100  | -3,00     | 225,100  | 5,900      | 225,100  | -3,00     | 225,100  | 5,900      | 225,100  |
| 10,276        | 229,511  | 4,376      | -3,00     | 225,135  | 5,900      | 535+0.000  | 225,312      | 228,690      | -3,378        | -3,00     | 225,135  | 5,900        | 225,135  | -3,00      | 225,135  | -3,00     | 225,135  | 5,900      | 225,135  | -3,00     | 225,135  | 5,900      | 225,135  |
| 9,746         | 229,108  | 3,846      | -3,00     | 225,262  | 5,900      | 536+0.000  | 225,439      | 227,801      | -2,362        | -3,00     | 225,262  | 5,900        | 225,262  | -3,00      | 225,262  | -3,00     | 225,262  | 5,900      | 225,262  | -3,00     | 225,262  | 5,900      | 225,262  |
| 8,235         | 227,724  | 2,335      | -3,00     | 225,389  | 5,900      | 537+0.000  | 225,566      | 226,591      | -1,025        | -3,00     | 225,389  | 5,900        | 225,389  | -3,00      | 225,389  | -3,00     | 225,389  | 5,900      | 225,389  | -3,00     | 225,389  | 5,900      | 225,389  |
| 6,058         | 225,411  | -0,105     | -3,00     | 225,516  | 5,900      | 538+0.000  | 225,693      | 225,012      | 0,681         | -3,00     | 225,516  | 5,900        | 225,516  | -3,00      | 225,516  | -3,00     | 225,516  | 5,900      | 225,516  | -3,00     | 225,516  | 5,900      | 225,516  |
| 8,322         | 224,029  | -1,615     | -3,00     | 225,644  | 5,900      | 539+0.000  | 225,821      | 223,499      | 2,322         | -3,00     | 225,644  | 5,900        | 225,644  | -3,00      | 225,644  | -3,00     | 225,644  | 5,900      | 225,644  | -3,00     | 225,644  | 5,900      | 225,644  |
| 10,830        | 222,484  | -3,287     | -3,00     | 225,771  | 5,900      | 540+0.000  | 225,948      | 222,469      | 3,479         | -3,00     | 225,771  | 5,900        | 225,771  | -3,00      | 225,771  | -3,00     | 225,771  | 5,900      | 225,771  | -3,00     | 225,771  | 5,900      | 225,771  |
| 12,062        | 221,790  | -4,108     | -3,00     | 225,898  | 5,900      | 541+0.000  | 226,075      | 222,016      | 4,059         | -3,00     | 225,898  | 5,900        | 225,898  | -3,00      | 225,898  | -3,00     | 225,898  | 5,900      | 225,898  | -3,00     | 225,898  | 5,900      | 225,898  |
| 13,056        | 221,254  | -4,771     | -3,00     | 226,025  | 5,900      | 542+0.000  | 226,202      | 221,997      | 4,205         | -3,00     | 226,025  | 5,900        | 226,025  | -3,00      | 226,025  | -3,00     | 226,025  | 5,900      | 226,025  | -3,00     | 226,025  | 5,900      | 226,025  |
| 11,968        | 222,107  | -4,045     | -3,00     | 226,152  | 5,900      | 543+0.000  | 226,329      | 222,356      | 3,973         | -3,00     | 226,152  | 5,900        | 226,152  | -3,00      | 226,152  | -3,00     | 226,152  | 5,900      | 226,152  | -3,00     | 226,152  | 5,900      | 226,152  |
| 11,099        | 222,814  | -3,466     | -3,00     | 226,280  | 5,900      | 544+0.000  | 226,457      | 222,986      | 3,471         | -3,00     | 226,280  | 5,900        | 226,280  | -3,00      | 226,280  | -3,00     | 226,280  | 5,900      | 226,280  | -3,00     | 226,280  | 5,900      | 226,280  |
| 9,903         | 223,738  | -2,669     | -3,00     | 226,407  | 5,900      | 545+0.000  | 226,584      | 223,932      | 2,652         | -3,00     | 226,407  | 5,900        | 226,407  | -3,00      | 226,407  | -3,00     | 226,407  | 5,900      | 226,407  | -3,00     | 226,407  | 5,900      | 226,407  |
| 7,567         | 225,423  | -1,111     | -3,00     | 226,534  | 5,900      | 546+0.000  | 226,711      | 225,377      | 1,334         | -3,00     | 226,534  | 5,900        | 226,534  | -3,00      | 226,534  | -3,00     | 226,534  | 5,900      | 226,534  | -3,00     | 226,534  | 5,900      | 226,534  |
| 6,099         | 226,861  | 0,200      | -3,00     | 226,661  | 5,900      | 547+0.000  | 226,838      | 226,775      | 0,063         | -3,00     | 226,661  | 5,900        | 226,661  | -3,00      | 226,661  | -3,00     | 226,661  | 5,900      | 226,661  | -3,00     | 226,661  | 5,900      | 226,661  |
| 7,753         | 228,641  | 1,852      | -3,00     | 226,789  | 5,900      | 548+0.000  | 226,966      | 227,935      | -0,969        | -3,00     | 226,789  | 5,900        | 226,789  | -3,00      | 226,789  | -3,00     | 226,789  | 5,900      | 226,789  | -3,00     | 226,789  | 5,900      | 226,789  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |           |            |          |           | Eixo       |          |              |              |               |           | Lado Direito |          |           |            |          |           |            |          |            |  |
|---------------|----------|------------|------------|----------|-----------|-----------|------------|----------|-----------|------------|----------|--------------|--------------|---------------|-----------|--------------|----------|-----------|------------|----------|-----------|------------|----------|------------|--|
| Offset        |          |            | Banqueta   |          |           |           | Bordo      |          |           | Estaca     |          | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo     |              |          |           | Banqueta   |          |           |            | Offset   |            |  |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%)    | Afast. (m)   | Cota (m)      | Incl. (%) | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |  |
| 9,717         | 230,733  | 3,817      |            |          | -3,00     |           | 5,900      | 226,916  | -3,00     | 549+0,000  | 227,093  | 229,355      | -2,262       | 5,900         | 226,916   | -3,00        | 5,900    | 226,916   | -3,00      | 7,928    | 228,944   | 2,028      |          |            |  |
| 9,910         | 230,989  | 4,010      |            |          | -3,00     |           | 5,900      | 226,979  | -3,00     | 549+10,000 | 227,156  | 229,970      | -2,814       | 5,900         | 226,979   | -3,00        | 5,900    | 226,979   | -3,00      | 9,148    | 230,228   | 3,249      |          |            |  |
| 10,157        | 231,297  | 4,257      |            |          | -3,00     |           | 5,900      | 227,040  | -3,00     | 550+0,000  | 227,217  | 230,304      | -3,087       | 5,900         | 227,040   | -3,00        | 5,900    | 227,040   | -3,00      | 9,383    | 230,523   | 3,483      |          |            |  |
| 10,288        | 231,529  | 4,388      |            |          | -3,00     |           | 5,900      | 227,141  | -3,00     | 551+0,000  | 227,318  | 230,226      | -2,908       | 5,900         | 227,141   | -3,00        | 5,900    | 227,141   | -3,00      | 9,933    | 231,175   | 4,034      |          |            |  |
| 10,088        | 231,405  | 4,188      |            |          | -3,00     |           | 5,900      | 227,217  | -3,00     | 552+0,000  | 227,394  | 229,993      | -2,599       | 5,900         | 227,217   | -3,00        | 5,900    | 227,217   | -3,00      | 9,236    | 230,552   | 3,335      |          |            |  |
| 9,135         | 230,502  | 3,236      |            |          | -3,00     |           | 5,900      | 227,266  | -3,00     | 553+0,000  | 227,443  | 228,665      | -1,222       | 5,900         | 227,266   | -3,00        | 5,900    | 227,266   | -3,00      | 7,951    | 229,317   | 2,051      |          |            |  |
| 7,578         | 228,968  | 1,678      |            |          | -3,00     |           | 5,900      | 227,290  | -3,00     | 554+0,000  | 227,467  | 227,781      | -0,314       | 5,900         | 227,290   | -3,00        | 5,900    | 227,290   | -3,00      | 6,360    | 227,750   | 0,460      |          |            |  |
| 6,869         | 228,261  | 0,969      |            |          | -3,00     |           | 5,900      | 227,292  | -3,00     | 554+8,256  | 227,469  | 227,486      | -0,017       | 5,900         | 227,292   | -3,00        | 5,900    | 227,292   | -3,00      | 6,157    | 227,549   | 0,257      |          |            |  |
| 6,684         | 228,072  | 0,784      |            |          | -3,00     |           | 5,900      | 227,288  | -3,00     | 555+0,000  | 227,465  | 226,343      | 1,122        | 5,900         | 227,288   | -3,00        | 5,900    | 227,288   | -3,00      | 6,202    | 227,086   | -0,202     |          |            |  |
| 6,145         | 227,504  | 0,245      |            |          | -3,00     |           | 5,900      | 227,259  | -3,00     | 556+0,000  | 227,436  | 226,575      | 0,861        | 5,900         | 227,259   | -3,00        | 5,900    | 227,259   | -3,00      | 7,043    | 226,497   | -0,762     |          |            |  |
| 5,982         | 227,317  | 0,081      |            |          | -3,00     |           | 5,900      | 227,236  | -3,00     | 556+10,000 | 227,413  | 226,887      | 0,526        | 5,900         | 227,236   | -3,00        | 5,900    | 227,236   | -3,00      | 7,063    | 226,460   | -0,776     |          |            |  |
| 5,967         | 227,276  | 0,067      |            |          | -3,00     |           | 5,900      | 227,209  | -3,00     | 557+0,000  | 227,386  | 226,736      | 0,650        | 5,900         | 227,209   | -3,00        | 5,900    | 227,209   | -3,00      | 6,996    | 226,478   | -0,731     |          |            |  |
| 5,958         | 227,116  | -0,038     |            |          | -3,00     |           | 5,900      | 227,154  | -3,00     | 558+0,000  | 227,331  | 226,896      | 0,435        | 5,900         | 227,154   | -3,00        | 5,900    | 227,154   | -3,00      | 6,770    | 226,574   | -0,580     |          |            |  |
| 6,664         | 227,865  | 0,765      |            |          | -3,00     |           | 5,900      | 227,100  | -3,00     | 559+0,000  | 227,277  | 226,842      | 0,435        | 5,900         | 227,100   | -3,00        | 5,900    | 227,100   | -3,00      | 6,184    | 226,911   | -0,189     |          |            |  |
| 6,550         | 227,696  | 0,650      |            |          | -3,00     |           | 5,900      | 227,046  | -3,00     | 560+0,000  | 227,223  | 226,913      | 0,310        | 5,900         | 227,046   | -3,00        | 5,900    | 227,046   | -3,00      | 6,105    | 227,251   | 0,205      |          |            |  |
| 6,691         | 227,783  | 0,791      |            |          | -3,00     |           | 5,900      | 226,992  | -3,00     | 561+0,000  | 227,169  | 226,836      | 0,333        | 5,900         | 226,992   | -3,00        | 5,900    | 226,992   | -3,00      | 6,016    | 227,108   | 0,116      |          |            |  |
| 6,579         | 226,486  | -0,452     |            |          | -3,00     |           | 5,900      | 226,938  | -3,00     | 562+0,000  | 227,115  | 226,602      | 0,513        | 5,900         | 226,938   | -3,00        | 5,900    | 226,938   | -3,00      | 6,049    | 226,839   | -0,099     |          |            |  |
| 6,534         | 226,462  | -0,422     |            |          | -3,00     |           | 5,900      | 226,884  | -3,00     | 563+0,000  | 227,061  | 226,195      | 0,866        | 5,900         | 226,884   | -3,00        | 5,900    | 226,884   | -3,00      | 5,962    | 226,843   | -0,041     |          |            |  |
| 8,162         | 225,322  | -1,508     |            |          | -3,00     |           | 5,900      | 226,830  | -3,00     | 564+0,000  | 227,007  | 225,374      | 1,633        | 5,900         | 226,830   | -3,00        | 5,900    | 226,830   | -3,00      | 6,737    | 226,272   | -0,558     |          |            |  |
| 9,529         | 224,357  | -2,419     |            |          | -3,00     |           | 5,900      | 226,776  | -3,00     | 565+0,000  | 226,953  | 224,517      | 2,436        | 5,900         | 226,776   | -3,00        | 5,900    | 226,776   | -3,00      | 7,633    | 225,621   | -1,155     |          |            |  |
| 9,815         | 224,112  | -2,610     |            |          | -3,00     |           | 5,900      | 226,722  | -3,00     | 566+0,000  | 226,899  | 223,599      | 3,300        | 5,900         | 226,722   | -3,00        | 5,900    | 226,722   | -3,00      | 9,317    | 224,444   | -2,278     |          |            |  |
| 11,415        | 222,991  | -3,677     |            |          | -3,00     |           | 5,900      | 226,668  | -3,00     | 567+0,000  | 226,845  | 222,938      | 3,907        | 5,900         | 226,668   | -3,00        | 5,900    | 226,668   | -3,00      | 12,580   | 222,215   | -4,453     |          |            |  |
| 12,355        | 222,311  | -4,303     |            |          | -3,00     |           | 5,900      | 226,614  | -3,00     | 568+0,000  | 226,791  | 222,963      | 3,828        | 5,900         | 226,614   | -3,00        | 5,900    | 226,614   | -3,00      | 13,872   | 221,300   | -5,314     |          |            |  |
| 9,591         | 224,099  | -2,461     |            |          | -3,00     |           | 5,900      | 226,560  | -3,00     | 569+0,000  | 226,737  | 223,591      | 3,146        | 5,900         | 226,560   | -3,00        | 5,900    | 226,560   | -3,00      | 10,330   | 223,606   | -2,954     |          |            |  |
| 7,842         | 225,211  | -1,295     |            |          | -3,00     |           | 5,900      | 226,506  | -3,00     | 570+0,000  | 226,683  | 224,658      | 2,025        | 5,900         | 226,506   | -3,00        | 5,900    | 226,506   | -3,00      | 8,483    | 224,784   | -1,722     |          |            |  |
| 6,917         | 225,774  | -0,678     |            |          | -3,00     |           | 5,900      | 226,452  | -3,00     | 571+0,000  | 226,629  | 225,881      | 0,748        | 5,900         | 226,452   | -3,00        | 5,900    | 226,452   | -3,00      | 6,439    | 226,092   | -0,360     |          |            |  |
| 6,841         | 227,338  | 0,940      |            |          | -3,00     |           | 5,900      | 226,398  | -3,00     | 572+0,000  | 226,575  | 227,181      | -0,606       | 5,900         | 226,398   | -3,00        | 5,900    | 226,398   | -3,00      | 7,473    | 227,971   | 1,573      |          |            |  |
| 7,835         | 228,278  | 1,934      |            |          | -3,00     |           | 5,900      | 226,344  | -3,00     | 573+0,000  | 226,521  | 227,790      | -1,269       | 5,900         | 226,344   | -3,00        | 5,900    | 226,344   | -3,00      | 8,117    | 228,560   | 2,216      |          |            |  |
| 8,855         | 229,244  | 2,954      |            |          | -3,00     |           | 5,900      | 226,290  | -3,00     | 574+0,000  | 226,467  | 228,535      | -2,068       | 5,900         | 226,290   | -3,00        | 5,900    | 226,290   | -3,00      | 8,945    | 229,334   | 3,044      |          |            |  |
| 9,391         | 229,726  | 3,490      |            |          | -3,00     |           | 5,900      | 226,236  | -3,00     | 575+0,000  | 226,413  | 229,038      | -2,625       | 5,900         | 226,236   | -3,00        | 5,900    | 226,236   | -3,00      | 9,755    | 230,091   | 3,855      |          |            |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |  |            |          |           |       |            |          |           |       |            |              |              |               |            |          |           |  |            |          |           |  |            |          |           |  |
|----------------------------------|----------|------------|--|------------|----------|-----------|-------|------------|----------|-----------|-------|------------|--------------|--------------|---------------|------------|----------|-----------|--|------------|----------|-----------|--|------------|----------|-----------|--|
| Lado Esquerdo                    |          |            |  |            |          |           |       |            |          |           |       |            |              | Lado Direito |               |            |          |           |  |            |          |           |  |            |          |           |  |
| Offset                           |          |            |  | Banqueta   |          |           |       | Bordo      |          |           |       | Eixo       |              |              |               | Bordo      |          |           |  | Banqueta   |          |           |  | Offset     |          |           |  |
| Afast. (m)                       | Cota (m) | Altura (m) |  | Afast. (m) | Cota (m) | Incl. (%) |       | Afast. (m) | Cota (m) | Incl. (%) |       | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Incl. (%) |  |
| 9,451                            | 229,732  | 3,550      |  |            | 5,900    | 226,182   | -3,00 |            | 5,900    | 226,182   | -3,00 | 576+0,000  | 226,359      | 229,391      | -3,032        | 5,900      | 226,182  | -3,00     |  | 5,900      | 226,182  | -3,00     |  | 9,961      | 230,243  | 4,061     |  |
| 9,530                            | 229,758  | 3,631      |  |            | 5,900    | 226,127   | -3,00 |            | 5,900    | 226,127   | -3,00 | 577+0,000  | 226,304      | 229,368      | -3,064        | 5,900      | 226,127  | -3,00     |  | 5,900      | 226,127  | -3,00     |  | 10,293     | 230,521  | 4,394     |  |
| 9,460                            | 229,633  | 3,560      |  |            | 5,900    | 226,073   | -3,00 |            | 5,900    | 226,073   | -3,00 | 578+0,000  | 226,250      | 228,735      | -2,485        | 5,900      | 226,073  | -3,00     |  | 5,900      | 226,073  | -3,00     |  | 9,867      | 230,040  | 3,967     |  |
| 9,067                            | 229,186  | 3,167      |  |            | 5,900    | 226,019   | -3,00 |            | 5,900    | 226,019   | -3,00 | 579+0,000  | 226,196      | 228,246      | -2,050        | 5,900      | 226,019  | -3,00     |  | 5,900      | 226,019  | -3,00     |  | 9,455      | 229,574  | 3,555     |  |
| 8,149                            | 228,214  | 2,249      |  |            | 5,900    | 225,965   | -3,00 |            | 5,900    | 225,965   | -3,00 | 580+0,000  | 226,142      | 226,992      | -0,850        | 5,900      | 225,965  | -3,00     |  | 5,900      | 225,965  | -3,00     |  | 8,339      | 228,405  | 2,440     |  |
| 6,330                            | 225,624  | -0,287     |  |            | 5,900    | 225,911   | -3,00 |            | 5,900    | 225,911   | -3,00 | 581+0,000  | 226,088      | 225,450      | 0,638         | 5,900      | 225,911  | -3,00     |  | 5,900      | 225,911  | -3,00     |  | 7,000      | 227,011  | 1,100     |  |
| 6,376                            | 225,578  | -0,317     |  |            | 5,900    | 225,895   | -3,00 |            | 5,900    | 225,895   | -3,00 | 581+6,000  | 226,072      | 225,031      | 1,041         | 5,900      | 225,895  | -3,00     |  | 5,900      | 225,895  | -3,00     |  | 6,278      | 226,273  | 0,378     |  |
| 7,435                            | 224,842  | -1,024     |  |            | 5,900    | 225,866   | -3,00 |            | 5,900    | 225,866   | -3,00 | 582+0,000  | 226,043      | 224,134      | 1,909         | 5,900      | 225,866  | -3,00     |  | 5,900      | 225,866  | -3,00     |  | 7,515      | 224,789  | -1,077    |  |
| 9,520                            | 223,439  | -2,413     |  |            | 5,900    | 225,852   | -3,00 |            | 5,900    | 225,852   | -3,00 | 582+17,491 | 226,029      | 223,622      | 2,407         | 5,900      | 225,852  | -3,00     |  | 5,900      | 225,852  | -3,00     |  | 8,676      | 224,002  | -1,850    |  |
| 9,556                            | 223,416  | -2,437     |  |            | 5,900    | 225,853   | -3,00 |            | 5,900    | 225,853   | -3,00 | 583+0,000  | 226,030      | 223,574      | 2,456         | 5,900      | 225,853  | -3,00     |  | 5,900      | 225,853  | -3,00     |  | 8,767      | 223,942  | -1,911    |  |
| 10,143                           | 223,045  | -2,829     |  |            | 5,900    | 225,874   | -3,00 |            | 5,900    | 225,874   | -3,00 | 584+0,000  | 226,051      | 223,269      | 2,782         | 5,900      | 225,874  | -3,00     |  | 5,900      | 225,874  | -3,00     |  | 9,400      | 223,541  | -2,333    |  |
| 10,790                           | 222,670  | -3,260     |  |            | 5,900    | 225,930   | -3,00 |            | 5,900    | 225,930   | -3,00 | 585+0,000  | 226,107      | 223,227      | 2,880         | 5,900      | 225,930  | -3,00     |  | 5,900      | 225,930  | -3,00     |  | 9,295      | 223,667  | -2,263    |  |
| 9,691                            | 223,493  | -2,527     |  |            | 5,900    | 226,020   | -3,00 |            | 5,900    | 226,020   | -3,00 | 586+0,000  | 226,197      | 223,528      | 2,669         | 5,900      | 226,020  | -3,00     |  | 5,900      | 226,020  | -3,00     |  | 11,341     | 222,393  | -3,627    |  |
| 7,774                            | 224,895  | -1,250     |  |            | 5,900    | 226,145   | -3,00 |            | 5,900    | 226,145   | -3,00 | 587+0,000  | 226,322      | 223,978      | 2,344         | 5,900      | 226,145  | -3,00     |  | 5,900      | 226,145  | -3,00     |  | 9,220      | 223,931  | -2,214    |  |
| 6,957                            | 225,599  | -0,704     |  |            | 5,900    | 226,303   | -3,00 |            | 5,900    | 226,303   | -3,00 | 588+0,000  | 226,480      | 224,573      | 1,907         | 5,900      | 226,303  | -3,00     |  | 5,900      | 226,303  | -3,00     |  | 6,852      | 225,668  | -0,635    |  |
| 6,423                            | 226,148  | -0,349     |  |            | 5,900    | 226,497   | -3,00 |            | 5,900    | 226,497   | -3,00 | 589+0,000  | 226,674      | 225,356      | 1,318         | 5,900      | 226,497  | -3,00     |  | 5,900      | 226,497  | -3,00     |  | 7,006      | 225,759  | -0,738    |  |
| 6,051                            | 226,624  | -0,100     |  |            | 5,900    | 226,724   | -3,00 |            | 5,900    | 226,724   | -3,00 | 590+0,000  | 226,901      | 226,115      | 0,786         | 5,900      | 226,724  | -3,00     |  | 5,900      | 226,724  | -3,00     |  | 5,964      | 226,788  | 0,064     |  |
| 6,381                            | 226,665  | -0,321     |  |            | 5,900    | 226,986   | -3,00 |            | 5,900    | 226,986   | -3,00 | 591+0,000  | 227,163      | 226,541      | 0,622         | 5,900      | 226,986  | -3,00     |  | 5,900      | 226,986  | -3,00     |  | 6,326      | 227,411  | 0,425     |  |
| 6,085                            | 227,256  | 0,185      |  |            | 5,900    | 227,071   | -3,00 |            | 5,900    | 227,071   | -3,00 | 591+6,000  | 227,248      | 226,760      | 0,488         | 5,900      | 227,071  | -3,00     |  | 5,900      | 227,071  | -3,00     |  | 5,978      | 227,149  | 0,078     |  |
| 6,370                            | 227,744  | 0,471      |  |            | 5,900    | 227,273   | -3,00 |            | 5,900    | 227,273   | -3,00 | 592+0,000  | 227,450      | 227,142      | 0,308         | 5,900      | 227,273  | -3,00     |  | 5,900      | 227,273  | -3,00     |  | 6,428      | 227,802  | 0,529     |  |
| 7,349                            | 229,012  | 1,449      |  |            | 5,900    | 227,563   | -3,00 |            | 5,900    | 227,563   | -3,00 | 593+0,000  | 227,740      | 227,698      | 0,042         | 5,900      | 227,563  | -3,00     |  | 5,900      | 227,563  | -3,00     |  | 6,809      | 228,472  | 0,909     |  |
| 8,004                            | 229,956  | 2,104      |  |            | 5,900    | 227,852   | -3,00 |            | 5,900    | 227,852   | -3,00 | 594+0,000  | 228,029      | 228,410      | -0,381        | 5,900      | 227,852  | -3,00     |  | 5,900      | 227,852  | -3,00     |  | 7,435      | 229,387  | 1,535     |  |
| 7,333                            | 229,575  | 1,434      |  |            | 5,900    | 228,141   | -3,00 |            | 5,900    | 228,141   | -3,00 | 595+0,000  | 228,318      | 228,445      | -0,127        | 5,900      | 228,141  | -3,00     |  | 5,900      | 228,141  | -3,00     |  | 6,489      | 228,731  | 0,590     |  |
| 6,333                            | 228,142  | -0,288     |  |            | 5,900    | 228,430   | -3,00 |            | 5,900    | 228,430   | -3,00 | 596+0,000  | 228,607      | 228,387      | 0,220         | 5,900      | 228,430  | -3,00     |  | 5,900      | 228,430  | -3,00     |  | 6,394      | 228,925  | 0,495     |  |
| 6,788                            | 229,607  | 0,887      |  |            | 5,900    | 228,720   | -3,00 |            | 5,900    | 228,720   | -3,00 | 597+0,000  | 228,897      | 228,413      | 0,484         | 5,900      | 228,720  | -3,00     |  | 5,900      | 228,720  | -3,00     |  | 6,687      | 229,507  | 0,787     |  |
| 6,596                            | 228,545  | -0,464     |  |            | 5,900    | 229,009   | -3,00 |            | 5,900    | 229,009   | -3,00 | 598+0,000  | 229,186      | 228,736      | 0,450         | 5,900      | 229,009  | -3,00     |  | 5,900      | 229,009  | -3,00     |  | 6,009      | 229,118  | 0,109     |  |
| 6,012                            | 229,411  | 0,113      |  |            | 5,900    | 229,298   | -3,00 |            | 5,900    | 229,298   | -3,00 | 599+0,000  | 229,475      | 229,085      | 0,390         | 5,900      | 229,298  | -3,00     |  | 5,900      | 229,298  | -3,00     |  | 6,248      | 229,646  | 0,348     |  |
| 7,348                            | 231,036  | 1,449      |  |            | 5,900    | 229,587   | -3,00 |            | 5,900    | 229,587   | -3,00 | 600+0,000  | 229,764      | 229,684      | 0,080         | 5,900      | 229,587  | -3,00     |  | 5,900      | 229,587  | -3,00     |  | 6,955      | 230,642  | 1,055     |  |
| 7,486                            | 231,318  | 1,586      |  |            | 5,900    | 229,732   | -3,00 |            | 5,900    | 229,732   | -3,00 | 600+10,000 | 229,909      | 230,285      | -0,376        | 5,900      | 229,732  | -3,00     |  | 5,900      | 229,732  | -3,00     |  | 6,793      | 230,625  | 0,893     |  |
| 7,735                            | 231,699  | 1,835      |  |            | 5,900    | 229,864   | -3,00 |            | 5,900    | 229,864   | -3,00 | 601+0,000  | 230,041      | 230,709      | -0,668        | 5,900      | 229,864  | -3,00     |  | 5,900      | 229,864  | -3,00     |  | 7,030      | 230,994  | 1,130     |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |          |           |            |          |           |             |          |        |              |              |               |            |          |           |            |          |           |            |          |           |            |          |            |  |        |  |  |
|----------------------------------|----------|------------|------------|----------|-----------|------------|----------|-----------|-------------|----------|--------|--------------|--------------|---------------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|------------|--|--------|--|--|
| Rodovia : RO-010    Lote 01      |          |            |            |          |           |            |          |           |             |          |        |              |              |               |            |          |           |            |          |           |            |          |           |            |          |            |  |        |  |  |
| Lado Esquerdo                    |          |            |            |          |           |            |          |           |             |          |        |              | Lado Direito |               |            |          |           |            |          |           |            |          |           |            |          |            |  |        |  |  |
| Offset                           |          |            | Banqueta   |          |           |            |          | Bordo     |             |          |        |              | Eixo         |               |            |          |           | Bordo      |          |           |            |          | Banqueta  |            |          |            |  | Offset |  |  |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m)  | Cota (m) | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |  |        |  |  |
| 8.438                            | 232.591  | 2.539      |            |          | -3.00     | 5.900      | 230.052  | -3.00     | 60+2+0.000  | 230.229  |        | 231.534      | -1.305       | 5.900         | 230.052    | -3.00    | 8.073     | 232.225    | 2.173    |           |            |          |           |            |          |            |  |        |  |  |
| 8.684                            | 232.924  | 2.784      |            |          | -3.00     | 5.900      | 230.140  | -3.00     | 60+3+0.000  | 230.317  |        | 232.097      | -1.780       | 5.900         | 230.140    | -3.00    | 8.506     | 232.746    | 2.606    |           |            |          |           |            |          |            |  |        |  |  |
| 8.597                            | 232.844  | 2.697      |            |          | -3.00     | 5.900      | 230.147  | -3.00     | 60+3+7.352  | 230.324  |        | 232.281      | -1.957       | 5.900         | 230.147    | -3.00    | 8.624     | 232.871    | 2.724    |           |            |          |           |            |          |            |  |        |  |  |
| 8.611                            | 232.838  | 2.711      |            |          | -3.00     | 5.900      | 230.127  | -3.00     | 60+4+0.000  | 230.304  |        | 232.495      | -2.191       | 5.900         | 230.127    | -3.00    | 8.861     | 233.088    | 2.961    |           |            |          |           |            |          |            |  |        |  |  |
| 9.647                            | 233.760  | 3.748      |            |          | -3.00     | 5.900      | 230.012  | -3.00     | 60+5+0.000  | 230.189  |        | 232.785      | -2.596       | 5.900         | 230.012    | -3.00    | 8.781     | 232.894    | 2.882    |           |            |          |           |            |          |            |  |        |  |  |
| 9.874                            | 233.772  | 3.975      |            |          | -3.00     | 5.900      | 229.797  | -3.00     | 60+6+0.000  | 229.974  |        | 232.619      | -2.645       | 5.900         | 229.797    | -3.00    | 8.988     | 232.885    | 3.088    |           |            |          |           |            |          |            |  |        |  |  |
| 9.755                            | 233.536  | 3.855      |            |          | -3.00     | 5.900      | 229.681  | -3.00     | 60+6+8.001  | 229.858  |        | 232.470      | -2.612       | 5.900         | 229.681    | -3.00    | 9.126     | 232.907    | 3.226    |           |            |          |           |            |          |            |  |        |  |  |
| 9.755                            | 233.536  | 3.855      |            |          | -3.00     | 5.900      | 229.681  | -3.00     | 60+6+8.007  | 229.858  |        | 232.470      | -2.612       | 5.900         | 229.681    | -3.00    | 9.126     | 232.908    | 3.227    |           |            |          |           |            |          |            |  |        |  |  |
| 9.505                            | 233.076  | 3.605      |            |          | -3.00     | 5.900      | 229.471  | -3.00     | 60+7+0.000  | 229.648  |        | 232.186      | -2.538       | 5.900         | 229.471    | -3.00    | 9.313     | 232.883    | 3.412    |           |            |          |           |            |          |            |  |        |  |  |
| 9.290                            | 232.412  | 3.390      |            |          | -3.00     | 5.900      | 229.022  | -3.00     | 60+8+0.000  | 229.199  |        | 231.650      | -2.451       | 5.900         | 229.022    | -3.00    | 9.176     | 232.298    | 3.276    |           |            |          |           |            |          |            |  |        |  |  |
| 9.516                            | 232.068  | 3.616      |            |          | -3.00     | 5.900      | 228.452  | -3.00     | 60+9+0.000  | 228.629  |        | 231.087      | -2.458       | 5.900         | 228.452    | -3.00    | 9.286     | 231.838    | 3.386    |           |            |          |           |            |          |            |  |        |  |  |
| 8.524                            | 230.383  | 2.624      |            |          | -3.00     | 5.900      | 227.759  | -3.00     | 61+0+0.000  | 227.936  |        | 229.834      | -1.898       | 5.900         | 227.759    | -3.00    | 9.120     | 230.979    | 3.220    |           |            |          |           |            |          |            |  |        |  |  |
| 7.391                            | 228.435  | 1.491      |            |          | -3.00     | 5.900      | 226.944  | -3.00     | 61+1+0.000  | 227.121  |        | 228.288      | -1.167       | 5.900         | 226.944    | -3.00    | 8.156     | 229.200    | 2.256    |           |            |          |           |            |          |            |  |        |  |  |
| 6.501                            | 226.669  | 0.601      |            |          | -3.00     | 5.900      | 226.068  | -3.00     | 61+2+0.000  | 226.245  |        | 226.667      | -0.422       | 5.900         | 226.068    | -3.00    | 7.341     | 227.509    | 1.441    |           |            |          |           |            |          |            |  |        |  |  |
| 6.282                            | 224.938  | -0.255     |            |          | -3.00     | 5.900      | 225.193  | -3.00     | 61+3+0.000  | 225.370  |        | 225.757      | -0.387       | 5.900         | 225.193    | -3.00    | 7.190     | 226.483    | 1.290    |           |            |          |           |            |          |            |  |        |  |  |
| 6.700                            | 223.784  | -0.533     |            |          | -3.00     | 5.900      | 224.317  | -3.00     | 61+4+0.000  | 224.494  |        | 224.146      | 0.348        | 5.900         | 224.317    | -3.00    | 6.762     | 225.178    | 0.861    |           |            |          |           |            |          |            |  |        |  |  |
| 7.361                            | 222.467  | -0.974     |            |          | -3.00     | 5.900      | 223.441  | -3.00     | 61+5+0.000  | 223.618  |        | 222.921      | 0.697        | 5.900         | 223.441    | -3.00    | 6.272     | 223.193    | -0.248   |           |            |          |           |            |          |            |  |        |  |  |
| 8.151                            | 221.154  | -1.501     |            |          | -3.00     | 5.900      | 222.655  | -3.00     | 61+6+0.000  | 222.832  |        | 221.968      | 0.864        | 5.900         | 222.655    | -3.00    | 8.873     | 220.673    | -1.982   |           |            |          |           |            |          |            |  |        |  |  |
| 8.671                            | 220.200  | -1.848     |            |          | -3.00     | 5.900      | 222.048  | -3.00     | 61+7+0.000  | 222.225  |        | 219.898      | 2.327        | 5.900         | 222.048    | -3.00    | 9.903     | 219.379    | -2.669   |           |            |          |           |            |          |            |  |        |  |  |
| 8.953                            | 219.585  | -2.035     |            |          | -3.00     | 5.900      | 221.620  | -3.00     | 61+8+0.000  | 221.797  |        | 219.448      | 2.349        | 5.900         | 221.620    | -3.00    | 10.463    | 218.578    | -3.042   |           |            |          |           |            |          |            |  |        |  |  |
| 9.475                            | 218.989  | -2.383     |            |          | -3.00     | 5.900      | 221.372  | -3.00     | 61+9+0.000  | 221.549  |        | 219.810      | 1.739        | 5.900         | 221.372    | -3.00    | 10.952    | 218.004    | -3.368   |           |            |          |           |            |          |            |  |        |  |  |
| 9.664                            | 218.792  | -2.510     |            |          | -3.00     | 5.900      | 221.302  | -3.00     | 61+9+17.714 | 221.479  |        | 218.400      | 3.079        | 5.900         | 221.302    | -3.00    | 10.789    | 218.042    | -3.260   |           |            |          |           |            |          |            |  |        |  |  |
| 9.582                            | 218.848  | -2.455     |            |          | -3.00     | 5.900      | 221.303  | -3.00     | 62+0+0.000  | 221.480  |        | 218.444      | 3.036        | 5.900         | 221.303    | -3.00    | 10.757    | 218.064    | -3.239   |           |            |          |           |            |          |            |  |        |  |  |
| 9.083                            | 219.291  | -2.122     |            |          | -3.00     | 5.900      | 221.413  | -3.00     | 62+1+0.000  | 221.590  |        | 218.879      | 2.711        | 5.900         | 221.413    | -3.00    | 10.248    | 218.514    | -2.899   |           |            |          |           |            |          |            |  |        |  |  |
| 7.936                            | 220.345  | -1.357     |            |          | -3.00     | 5.900      | 221.702  | -3.00     | 62+2+0.000  | 221.879  |        | 219.622      | 2.257        | 5.900         | 221.702    | -3.00    | 8.565     | 219.926    | -1.776   |           |            |          |           |            |          |            |  |        |  |  |
| 6.491                            | 221.777  | -0.394     |            |          | -3.00     | 5.900      | 222.171  | -3.00     | 62+3+0.000  | 222.348  |        | 220.545      | 1.803        | 5.900         | 222.171    | -3.00    | 7.042     | 221.410    | -0.761   |           |            |          |           |            |          |            |  |        |  |  |
| 5.957                            | 222.781  | -0.038     |            |          | -3.00     | 5.900      | 222.819  | -3.00     | 62+4+0.000  | 222.996  |        | 221.377      | 1.619        | 5.900         | 222.819    | -3.00    | 7.118     | 222.007    | -0.812   |           |            |          |           |            |          |            |  |        |  |  |
| 5.986                            | 223.732  | 0.086      |            |          | -3.00     | 5.900      | 223.646  | -3.00     | 62+5+0.000  | 223.823  |        | 223.112      | 0.711        | 5.900         | 223.646    | -3.00    | 6.194     | 223.450    | -0.196   |           |            |          |           |            |          |            |  |        |  |  |
| 6.075                            | 224.827  | 0.175      |            |          | -3.00     | 5.900      | 224.652  | -3.00     | 62+6+0.000  | 224.829  |        | 224.638      | 0.191        | 5.900         | 224.652    | -3.00    | 6.224     | 224.436    | -0.216   |           |            |          |           |            |          |            |  |        |  |  |
| 6.694                            | 226.543  | 0.795      |            |          | -3.00     | 5.900      | 225.748  | -3.00     | 62+7+0.000  | 225.925  |        | 226.173      | -0.248       | 5.900         | 225.748    | -3.00    | 6.127     | 225.597    | -0.151   |           |            |          |           |            |          |            |  |        |  |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |           |          |            |           |           |         |              |              |               |              |          |           |            |          |           |            |          |            |           |          |            |          |           |            |            |
|----------------------------------|----------|------------|------------|-----------|----------|------------|-----------|-----------|---------|--------------|--------------|---------------|--------------|----------|-----------|------------|----------|-----------|------------|----------|------------|-----------|----------|------------|----------|-----------|------------|------------|
| Rodovia : RO-010    Lote 01      |          |            |            |           |          |            |           |           |         |              |              |               |              |          |           |            |          |           |            |          |            |           |          |            |          |           |            |            |
| Lado Esquerdo                    |          |            |            |           |          |            |           |           |         |              |              |               | Lado Direito |          |           |            |          |           |            |          |            |           |          |            |          |           |            |            |
| Offset                           |          |            | Banqueta   |           |          |            |           | Bordo     |         |              |              |               | Eixo         |          | Bordo     |            |          |           |            | Banqueta |            |           |          |            | Offset   |           |            |            |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Incl. (%) | Cota (m) | Afast. (m) | Incl. (%) | Cota (m)  | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Afast. (m) | Incl. (%) | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Altura (m) |
| 7,373                            | 228,317  | 1,473      |            | -3,00     | 5,900    | 226,844    | -3,00     | 628+0,000 | 227,021 | 228,091      | -1,070       | 5,900         | 226,844      | -3,00    | 5,900     | 226,844    | -3,00    | 5,900     | 226,844    | -3,00    | 5,900      | 226,844   | -3,00    | 6,737      | 227,681  | 0,837     |            |            |
| 7,633                            | 229,583  | 1,733      |            | -3,00     | 5,900    | 227,850    | -3,00     | 629+0,000 | 228,027 | 229,953      | -1,926       | 5,900         | 227,850      | -3,00    | 5,900     | 227,850    | -3,00    | 5,900     | 227,850    | -3,00    | 5,900      | 227,850   | -3,00    | 8,173      | 230,124  | 2,274     |            |            |
| 7,909                            | 230,686  | 2,009      |            | -3,00     | 5,900    | 228,677    | -3,00     | 630+0,000 | 228,854 | 230,394      | -1,540       | 5,900         | 228,677      | -3,00    | 5,900     | 228,677    | -3,00    | 5,900     | 228,677    | -3,00    | 5,900      | 228,677   | -3,00    | 7,392      | 230,169  | 1,492     |            |            |
| 7,376                            | 230,800  | 1,476      |            | -3,00     | 5,900    | 229,324    | -3,00     | 631+0,000 | 229,501 | 230,009      | -0,508       | 5,900         | 229,324      | -3,00    | 5,900     | 229,324    | -3,00    | 5,900     | 229,324    | -3,00    | 5,900      | 229,324   | -3,00    | 6,366      | 229,790  | 0,466     |            |            |
| 6,149                            | 230,040  | 0,248      |            | -3,00     | 5,900    | 229,792    | -3,00     | 632+0,000 | 229,969 | 229,750      | 0,219        | 5,900         | 229,792      | -3,00    | 5,900     | 229,792    | -3,00    | 5,900     | 229,792    | -3,00    | 5,900      | 229,792   | -3,00    | 5,933      | 229,824  | 0,032     |            |            |
| 6,562                            | 230,741  | 0,662      |            | -3,00     | 5,900    | 230,079    | -3,00     | 633+0,000 | 230,256 | 229,987      | 0,269        | 5,900         | 230,079      | -3,00    | 5,900     | 230,079    | -3,00    | 5,900     | 230,079    | -3,00    | 5,900      | 230,079   | -3,00    | 6,390      | 229,753  | -0,326    |            |            |
| 6,874                            | 231,162  | 0,974      |            | -3,00     | 5,900    | 230,188    | -3,00     | 634+0,000 | 230,365 | 230,634      | -0,269       | 5,900         | 230,188      | -3,00    | 5,900     | 230,188    | -3,00    | 5,900     | 230,188    | -3,00    | 5,900      | 230,188   | -3,00    | 6,442      | 230,730  | 0,542     |            |            |
| 6,909                            | 231,197  | 1,008      |            | -3,00     | 5,900    | 230,189    | -3,00     | 634+2,057 | 230,366 | 230,692      | -0,326       | 5,900         | 230,189      | -3,00    | 5,900     | 230,189    | -3,00    | 5,900     | 230,189    | -3,00    | 5,900      | 230,189   | -3,00    | 6,466      | 230,754  | 0,565     |            |            |
| 8,144                            | 232,361  | 2,245      |            | -3,00     | 5,900    | 230,116    | -3,00     | 635+0,000 | 230,293 | 231,633      | -1,340       | 5,900         | 230,116      | -3,00    | 5,900     | 230,116    | -3,00    | 5,900     | 230,116    | -3,00    | 5,900      | 230,116   | -3,00    | 7,569      | 231,785  | 1,669     |            |            |
| 8,911                            | 232,877  | 3,012      |            | -3,00     | 5,900    | 229,865    | -3,00     | 636+0,000 | 230,042 | 232,250      | -2,208       | 5,900         | 229,865      | -3,00    | 5,900     | 229,865    | -3,00    | 5,900     | 229,865    | -3,00    | 5,900      | 229,865   | -3,00    | 7,865      | 231,831  | 1,966     |            |            |
| 9,492                            | 233,026  | 3,591      |            | -3,00     | 5,900    | 229,435    | -3,00     | 637+0,000 | 229,612 | 231,493      | -1,881       | 5,900         | 229,435      | -3,00    | 5,900     | 229,435    | -3,00    | 5,900     | 229,435    | -3,00    | 5,900      | 229,435   | -3,00    | 7,863      | 231,398  | 1,963     |            |            |
| 9,257                            | 232,182  | 3,357      |            | -3,00     | 5,900    | 228,825    | -3,00     | 638+0,000 | 229,002 | 230,711      | -1,709       | 5,900         | 228,825      | -3,00    | 5,900     | 228,825    | -3,00    | 5,900     | 228,825    | -3,00    | 5,900      | 228,825   | -3,00    | 7,245      | 230,170  | 1,345     |            |            |
| 8,622                            | 230,847  | 2,722      |            | -3,00     | 5,900    | 228,125    | -3,00     | 639+0,000 | 228,302 | 229,202      | -0,900       | 5,900         | 228,125      | -3,00    | 5,900     | 228,125    | -3,00    | 5,900     | 228,125    | -3,00    | 5,900      | 228,125   | -3,00    | 7,251      | 229,476  | 1,351     |            |            |
| 8,119                            | 229,645  | 2,220      |            | -3,00     | 5,900    | 227,425    | -3,00     | 640+0,000 | 227,602 | 228,211      | -0,609       | 5,900         | 227,425      | -3,00    | 5,900     | 227,425    | -3,00    | 5,900     | 227,425    | -3,00    | 5,900      | 227,425   | -3,00    | 6,474      | 227,999  | 0,574     |            |            |
| 6,885                            | 227,710  | 0,985      |            | -3,00     | 5,900    | 226,725    | -3,00     | 641+0,000 | 226,902 | 226,814      | 0,088        | 5,900         | 226,725      | -3,00    | 5,900     | 226,725    | -3,00    | 5,900     | 226,725    | -3,00    | 5,900      | 226,725   | -3,00    | 5,942      | 226,697  | -0,028    |            |            |
| 6,988                            | 227,200  | 1,088      |            | -3,00     | 5,900    | 226,112    | -3,00     | 642+0,000 | 226,289 | 225,552      | 0,737        | 5,900         | 226,112      | -3,00    | 5,900     | 226,112    | -3,00    | 5,900     | 226,112    | -3,00    | 5,900      | 226,112   | -3,00    | 6,523      | 225,696  | -0,416    |            |            |
| 6,185                            | 225,482  | -0,190     |            | -3,00     | 5,900    | 225,672    | -3,00     | 643+0,000 | 225,849 | 224,549      | 1,300        | 5,900         | 225,672      | -3,00    | 5,900     | 225,672    | -3,00    | 5,900     | 225,672    | -3,00    | 5,900      | 225,672   | -3,00    | 7,601      | 224,538  | -1,134    |            |            |
| 7,819                            | 224,126  | -1,279     |            | -3,00     | 5,900    | 225,405    | -3,00     | 644+0,000 | 225,582 | 223,874      | 1,708        | 5,900         | 225,405      | -3,00    | 5,900     | 225,405    | -3,00    | 5,900     | 225,405    | -3,00    | 5,900      | 225,405   | -3,00    | 8,131      | 223,918  | -1,487    |            |            |
| 8,828                            | 223,360  | -1,952     |            | -3,00     | 5,900    | 225,312    | -3,00     | 645+0,000 | 225,489 | 223,265      | 2,224        | 5,900         | 225,312      | -3,00    | 5,900     | 225,312    | -3,00    | 5,900     | 225,312    | -3,00    | 5,900      | 225,312   | -3,00    | 8,883      | 223,324  | -1,988    |            |            |
| 8,860                            | 223,339  | -1,973     |            | -3,00     | 5,900    | 225,312    | -3,00     | 645+0,763 | 225,489 | 223,257      | 2,232        | 5,900         | 225,312      | -3,00    | 5,900     | 225,312    | -3,00    | 5,900     | 225,312    | -3,00    | 5,900      | 225,312   | -3,00    | 8,844      | 223,349  | -1,963    |            |            |
| 9,620                            | 222,912  | -2,480     |            | -3,00     | 5,900    | 225,392    | -3,00     | 646+0,000 | 225,569 | 223,160      | 2,409        | 5,900         | 225,392      | -3,00    | 5,900     | 225,392    | -3,00    | 5,900     | 225,392    | -3,00    | 5,900      | 225,392   | -3,00    | 10,239     | 222,499  | -2,893    |            |            |
| 8,848                            | 223,680  | -1,966     |            | -3,00     | 5,900    | 225,646    | -3,00     | 647+0,000 | 225,823 | 223,611      | 2,212        | 5,900         | 225,646      | -3,00    | 5,900     | 225,646    | -3,00    | 5,900     | 225,646    | -3,00    | 5,900      | 225,646   | -3,00    | 8,569      | 223,866  | -1,780    |            |            |
| 8,976                            | 224,022  | -2,050     |            | -3,00     | 5,900    | 226,072    | -3,00     | 648+0,000 | 226,249 | 223,814      | 2,435        | 5,900         | 226,072      | -3,00    | 5,900     | 226,072    | -3,00    | 5,900     | 226,072    | -3,00    | 5,900      | 226,072   | -3,00    | 8,900      | 224,072  | -2,000    |            |            |
| 7,045                            | 225,909  | -0,763     |            | -3,00     | 5,900    | 226,672    | -3,00     | 649+0,000 | 226,849 | 224,645      | 2,204        | 5,900         | 226,672      | -3,00    | 5,900     | 226,672    | -3,00    | 5,900     | 226,672    | -3,00    | 5,900      | 226,672   | -3,00    | 7,406      | 225,668  | -1,004    |            |            |
| 6,105                            | 227,309  | -0,137     |            | -3,00     | 5,900    | 227,446    | -3,00     | 650+0,000 | 227,623 | 225,851      | 1,772        | 5,900         | 227,446      | -3,00    | 5,900     | 227,446    | -3,00    | 5,900     | 227,446    | -3,00    | 5,900      | 227,446   | -3,00    | 6,767      | 226,868  | -0,578    |            |            |
| 5,901                            | 227,896  | -0,001     |            | -3,00     | 5,900    | 227,897    | -3,00     | 650+9,989 | 228,074 | 227,149      | 0,925        | 5,900         | 227,897      | -3,00    | 5,900     | 227,897    | -3,00    | 5,900     | 227,897    | -3,00    | 5,900      | 227,897   | -3,00    | 6,442      | 227,535  | -0,362    |            |            |
| 6,509                            | 228,559  | 0,180      |            | -3,00     | 6,329    | 228,379    | -3,00     | 651+0,000 | 228,569 | 227,433      | 1,136        | 6,329         | 228,379      | -3,00    | 5,900     | 228,379    | -3,00    | 5,900     | 228,379    | -3,00    | 5,900      | 228,379   | -3,00    | 6,687      | 228,141  | -0,238    |            |            |
| 7,999                            | 230,200  | 0,813      |            | -3,00     | 7,186    | 229,387    | -3,00     | 652+0,000 | 229,603 | 228,981      | 0,622        | 7,186         | 229,387      | -3,00    | 5,900     | 229,387    | -3,00    | 5,900     | 229,387    | -3,00    | 5,900      | 229,387   | -3,00    | 7,782      | 229,983  | 0,596     |            |            |
| 8,445                            | 230,683  | 1,044      |            | -3,00     | 7,400    | 229,639    | -3,00     | 652+5,000 | 229,861 | 229,486      | 0,375        | 7,400         | 229,639      | -3,00    | 5,900     | 229,639    | -3,00    | 5,900     | 229,639    | -3,00    | 5,900      | 229,639   | -3,00    | 8,158      | 230,396  | 0,757     |            |            |
| 9,686                            | 231,998  | 1,642      |            | -3,00     | 8,043    | 230,356    | -3,00     | 653+0,000 | 230,597 | 230,750      | -0,153       | 8,043         | 230,356      | -3,00    | 5,900     | 230,356    | -3,00    | 5,900     | 230,356    | -3,00    | 5,900      | 230,356   | -3,00    | 9,266      | 231,578  | 1,222     |            |            |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |  |            |          |          |  |            |          |          |  |            |              |              |               |            |          |          |  |            |          |          |  |            |          |            |  |
|----------------------------------|----------|------------|--|------------|----------|----------|--|------------|----------|----------|--|------------|--------------|--------------|---------------|------------|----------|----------|--|------------|----------|----------|--|------------|----------|------------|--|
| Lado Esquerdo                    |          |            |  |            |          |          |  |            |          |          |  |            |              | Lado Direito |               |            |          |          |  |            |          |          |  |            |          |            |  |
| Offset                           |          |            |  | Banqueta   |          |          |  | Bordo      |          |          |  | Eixo       |              |              |               | Banqueta   |          |          |  | Offset     |          |          |  |            |          |            |  |
| Afast. (m)                       | Cota (m) | Altura (m) |  | Afast. (m) | Cota (m) | Ind. (%) |  | Afast. (m) | Cota (m) | Ind. (%) |  | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Ind. (%) |  | Afast. (m) | Cota (m) | Ind. (%) |  | Afast. (m) | Cota (m) | Altura (m) |  |
| 11.230                           | 233.519  | 2.331      |  | 8.900      | 231.188  | -3,00    |  | 8.900      | 231.188  | -3,00    |  | 653+19.989 | 231.455      | 232.127      | -0.672        | 8.900      | 231.188  | -3,00    |  | 8.900      | 231.188  | -3,00    |  | 10.492     | 232.781  | 1.593      |  |
| 11.230                           | 233.519  | 2.330      |  | 8.900      | 231.189  | -3,00    |  | 8.900      | 231.189  | -3,00    |  | 654+0.000  | 231.456      | 232.127      | -0.671        | 8.900      | 231.189  | -3,00    |  | 8.900      | 231.189  | -3,00    |  | 10.492     | 232.781  | 1.592      |  |
| 10.833                           | 233.842  | 1.933      |  | 8.900      | 231.909  | -3,00    |  | 8.900      | 231.909  | -3,00    |  | 655+0.000  | 232.176      | 233.015      | -0.839        | 8.900      | 231.909  | -3,00    |  | 8.900      | 231.909  | -3,00    |  | 10.337     | 233.346  | 1.437      |  |
| 10.555                           | 234.144  | 1.655      |  | 8.900      | 232.489  | -3,00    |  | 8.900      | 232.489  | -3,00    |  | 656+0.000  | 232.756      | 233.592      | -0.836        | 8.900      | 232.489  | -3,00    |  | 8.900      | 232.489  | -3,00    |  | 10.524     | 234.114  | 1.625      |  |
| 10.645                           | 234.676  | 1.745      |  | 8.900      | 232.931  | -3,00    |  | 8.900      | 232.931  | -3,00    |  | 657+0.000  | 233.198      | 233.937      | -0.739        | 8.900      | 232.931  | -3,00    |  | 8.900      | 232.931  | -3,00    |  | 10.245     | 234.276  | 1.345      |  |
| 10.374                           | 234.707  | 1.474      |  | 8.900      | 233.233  | -3,00    |  | 8.900      | 233.233  | -3,00    |  | 658+0.000  | 233.500      | 234.136      | -0.636        | 8.900      | 233.233  | -3,00    |  | 8.900      | 233.233  | -3,00    |  | 10.536     | 234.869  | 1.636      |  |
| 9.876                            | 234.372  | 0.976      |  | 8.900      | 233.396  | -3,00    |  | 8.900      | 233.396  | -3,00    |  | 659+0.000  | 233.663      | 234.027      | -0.364        | 8.900      | 233.396  | -3,00    |  | 8.900      | 233.396  | -3,00    |  | 10.235     | 234.731  | 1.335      |  |
| 10.082                           | 234.609  | 1.182      |  | 8.900      | 233.427  | -3,00    |  | 8.900      | 233.427  | -3,00    |  | 659+13.383 | 233.694      | 234.080      | -0.386        | 8.900      | 233.427  | -3,00    |  | 8.900      | 233.427  | -3,00    |  | 9.692      | 234.219  | 0.792      |  |
| 9.889                            | 234.409  | 0.990      |  | 8.900      | 233.419  | -3,00    |  | 8.900      | 233.419  | -3,00    |  | 660+0.000  | 233.686      | 233.920      | -0.234        | 8.900      | 233.419  | -3,00    |  | 8.900      | 233.419  | -3,00    |  | 9.421      | 233.940  | 0.521      |  |
| 10.083                           | 234.486  | 1.182      |  | 8.900      | 233.304  | -3,00    |  | 8.900      | 233.304  | -3,00    |  | 661+0.000  | 233.571      | 233.641      | -0.070        | 8.900      | 233.304  | -3,00    |  | 8.900      | 233.304  | -3,00    |  | 9.195      | 233.599  | 0.295      |  |
| 10.081                           | 234.230  | 1.181      |  | 8.900      | 233.049  | -3,00    |  | 8.900      | 233.049  | -3,00    |  | 662+0.000  | 233.316      | 233.497      | -0.181        | 8.900      | 233.049  | -3,00    |  | 8.900      | 233.049  | -3,00    |  | 9.299      | 233.448  | 0.399      |  |
| 10.108                           | 234.171  | 1.208      |  | 8.900      | 232.963  | -3,00    |  | 8.900      | 232.963  | -3,00    |  | 662+5.000  | 233.230      | 233.415      | -0.185        | 8.900      | 232.963  | -3,00    |  | 8.900      | 232.963  | -3,00    |  | 9.394      | 233.457  | 0.494      |  |
| 10.065                           | 233.858  | 1.164      |  | 8.900      | 232.694  | -3,00    |  | 8.900      | 232.694  | -3,00    |  | 663+0.000  | 232.961      | 233.171      | -0.210        | 8.900      | 232.694  | -3,00    |  | 8.900      | 232.694  | -3,00    |  | 9.287      | 233.081  | 0.387      |  |
| 10.013                           | 233.447  | 1.113      |  | 8.900      | 232.334  | -3,00    |  | 8.900      | 232.334  | -3,00    |  | 664+0.000  | 232.601      | 232.577      | 0.024         | 8.900      | 232.334  | -3,00    |  | 8.900      | 232.334  | -3,00    |  | 9.024      | 232.458  | 0.124      |  |
| 9.461                            | 232.536  | 0.561      |  | 8.900      | 231.975  | -3,00    |  | 8.900      | 231.975  | -3,00    |  | 665+0.000  | 232.242      | 232.091      | 0.151         | 8.900      | 231.975  | -3,00    |  | 8.900      | 231.975  | -3,00    |  | 9.146      | 232.221  | 0.246      |  |
| 9.356                            | 232.071  | 0.456      |  | 8.900      | 231.615  | -3,00    |  | 8.900      | 231.615  | -3,00    |  | 666+0.000  | 231.882      | 231.764      | 0.118         | 8.900      | 231.615  | -3,00    |  | 8.900      | 231.615  | -3,00    |  | 9.126      | 231.841  | 0.226      |  |
| 9.053                            | 231.451  | 0.153      |  | 8.900      | 231.298  | -3,00    |  | 8.900      | 231.298  | -3,00    |  | 667+0.000  | 231.565      | 231.480      | 0.085         | 8.900      | 231.298  | -3,00    |  | 8.900      | 231.298  | -3,00    |  | 9.558      | 231.956  | 0.658      |  |
| 9.489                            | 231.712  | 0.589      |  | 8.900      | 231.123  | -3,00    |  | 8.900      | 231.123  | -3,00    |  | 667+14.211 | 231.390      | 231.316      | 0.074         | 8.900      | 231.123  | -3,00    |  | 8.900      | 231.123  | -3,00    |  | 9.598      | 231.821  | 0.698      |  |
| 9.322                            | 231.742  | 0.671      |  | 8.652      | 231.071  | -3,00    |  | 8.652      | 231.071  | -3,00    |  | 668+0.000  | 231.331      | 231.236      | 0.095         | 8.652      | 231.071  | -3,00    |  | 8.652      | 231.071  | -3,00    |  | 9.269      | 231.689  | 0.618      |  |
| 8.309                            | 231.462  | 0.515      |  | 7.795      | 230.947  | -3,00    |  | 7.795      | 230.947  | -3,00    |  | 669+0.000  | 231.181      | 231.223      | -0.042        | 7.795      | 230.947  | -3,00    |  | 7.795      | 230.947  | -3,00    |  | 7.853      | 231.006  | 0.059      |  |
| 7.208                            | 231.178  | 0.270      |  | 6.938      | 230.908  | -3,00    |  | 6.938      | 230.908  | -3,00    |  | 670+0.000  | 231.116      | 231.013      | 0.103         | 6.938      | 230.908  | -3,00    |  | 6.938      | 230.908  | -3,00    |  | 7.027      | 230.848  | -0.060     |  |
| 6.963                            | 231.180  | 0.269      |  | 6.694      | 230.911  | -3,00    |  | 6.694      | 230.911  | -3,00    |  | 670+5.689  | 231.112      | 231.131      | -0.019        | 6.694      | 230.911  | -3,00    |  | 6.694      | 230.911  | -3,00    |  | 6.817      | 230.829  | -0.082     |  |
| 6.184                            | 231.055  | 0.103      |  | 6.080      | 230.952  | -3,00    |  | 6.080      | 230.952  | -3,00    |  | 671+0.000  | 231.134      | 231.100      | 0.034         | 6.080      | 230.952  | -3,00    |  | 6.080      | 230.952  | -3,00    |  | 6.390      | 230.745  | -0.207     |  |
| 5.905                            | 230.968  | -0.003     |  | 5.900      | 230.971  | -3,00    |  | 5.900      | 230.971  | -3,00    |  | 671+4.211  | 231.148      | 230.878      | 0.270         | 5.900      | 230.971  | -3,00    |  | 5.900      | 230.971  | -3,00    |  | 6.362      | 230.663  | -0.308     |  |
| 6.740                            | 230.498  | -0.561     |  | 5.900      | 231.059  | -3,00    |  | 5.900      | 231.059  | -3,00    |  | 672+0.000  | 231.236      | 231.003      | 0.233         | 5.900      | 231.059  | -3,00    |  | 5.900      | 231.059  | -3,00    |  | 6.490      | 230.665  | -0.394     |  |
| 6.442                            | 230.902  | -0.361     |  | 5.900      | 231.263  | -3,00    |  | 5.900      | 231.263  | -3,00    |  | 673+0.000  | 231.440      | 231.189      | 0.251         | 5.900      | 231.263  | -3,00    |  | 5.900      | 231.263  | -3,00    |  | 6.638      | 230.771  | -0.492     |  |
| 6.007                            | 231.517  | -0.071     |  | 5.900      | 231.588  | -3,00    |  | 5.900      | 231.588  | -3,00    |  | 674+0.000  | 231.765      | 231.373      | 0.392         | 5.900      | 231.588  | -3,00    |  | 5.900      | 231.588  | -3,00    |  | 6.161      | 231.849  | 0.261      |  |
| 6.579                            | 231.581  | -0.453     |  | 5.900      | 232.034  | -3,00    |  | 5.900      | 232.034  | -3,00    |  | 675+0.000  | 232.211      | 231.455      | 0.756         | 5.900      | 232.034  | -3,00    |  | 5.900      | 232.034  | -3,00    |  | 5.934      | 232.068  | 0.034      |  |
| 6.116                            | 232.816  | 0.215      |  | 5.900      | 232.601  | -3,00    |  | 5.900      | 232.601  | -3,00    |  | 676+0.000  | 232.778      | 232.441      | 0.337         | 5.900      | 232.601  | -3,00    |  | 5.900      | 232.601  | -3,00    |  | 6.085      | 232.786  | 0.185      |  |
| 6.152                            | 233.121  | -0.167     |  | 5.900      | 233.288  | -3,00    |  | 5.900      | 233.288  | -3,00    |  | 677+0.000  | 233.465      | 233.015      | 0.450         | 5.900      | 233.288  | -3,00    |  | 5.900      | 233.288  | -3,00    |  | 5.962      | 233.247  | -0.041     |  |



## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |          |            |          |               |            |              |              |               |            |          |          |            |          |            |
|---------------|----------|------------|------------|----------|----------|------------|----------|---------------|------------|--------------|--------------|---------------|------------|----------|----------|------------|----------|------------|
| Eixo          |          |            |            |          |          |            |          |               |            | Lado Direito |              |               |            |          |          |            |          |            |
| Offset        |          | Banqueta   |            |          | Bordo    |            |          | Cota Vermelha |            | Banqueta     |              |               | Bordo      |          |          | Offset     |          |            |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%)      | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Altura (m) |
| 6,242         | 234,004  | 0,342      |            |          | -3,00    | 5,900      | 233,662  | -3,00         | 677+10,000 | 233,839      | 233,476      | 0,363         | 5,900      | 233,662  | -3,00    | 6,006      | 233,592  | -0,070     |
| 6,458         | 234,578  | 0,558      |            |          | -3,00    | 5,900      | 234,020  | -3,00         | 678+0,000  | 234,197      | 233,910      | 0,287         | 5,900      | 234,020  | -3,00    | 6,585      | 234,705  | 0,685      |
| 6,918         | 235,654  | 1,017      |            |          | -3,00    | 5,900      | 234,637  | -3,00         | 679+0,000  | 234,814      | 234,949      | -0,135        | 5,900      | 234,637  | -3,00    | 6,135      | 234,872  | 0,235      |
| 6,580         | 235,802  | 0,680      |            |          | -3,00    | 5,900      | 235,122  | -3,00         | 680+0,000  | 235,299      | 235,321      | -0,022        | 5,900      | 235,122  | -3,00    | 6,820      | 236,042  | 0,920      |
| 6,164         | 235,741  | 0,264      |            |          | -3,00    | 5,900      | 235,477  | -3,00         | 681+0,000  | 235,654      | 235,939      | -0,285        | 5,900      | 235,477  | -3,00    | 6,366      | 235,943  | 0,466      |
| 6,882         | 236,681  | 0,981      |            |          | -3,00    | 5,900      | 235,700  | -3,00         | 682+0,000  | 235,877      | 236,256      | -0,379        | 5,900      | 235,700  | -3,00    | 6,492      | 236,291  | 0,591      |
| 6,762         | 236,653  | 0,862      |            |          | -3,00    | 5,900      | 235,791  | -3,00         | 683+0,000  | 235,968      | 236,379      | -0,411        | 5,900      | 235,791  | -3,00    | 6,390      | 236,281  | 0,490      |
| 6,868         | 236,762  | 0,968      |            |          | -3,00    | 5,900      | 235,794  | -3,00         | 683+3,992  | 235,971      | 236,403      | -0,432        | 5,900      | 235,794  | -3,00    | 6,352      | 236,246  | 0,452      |
| 7,182         | 237,057  | 1,282      |            |          | -3,00    | 5,900      | 235,775  | -3,00         | 683+14,813 | 235,952      | 236,468      | -0,516        | 5,900      | 235,775  | -3,00    | 6,206      | 236,081  | 0,306      |
| 7,182         | 237,057  | 1,282      |            |          | -3,00    | 5,900      | 235,775  | -3,00         | 683+14,823 | 235,952      | 236,468      | -0,516        | 5,900      | 235,775  | -3,00    | 6,206      | 236,081  | 0,306      |
| 7,346         | 237,197  | 1,445      |            |          | -3,00    | 5,900      | 235,752  | -3,00         | 684+0,000  | 235,929      | 236,478      | -0,549        | 5,900      | 235,752  | -3,00    | 6,149      | 236,001  | 0,249      |
| 8,067         | 237,748  | 2,167      |            |          | -3,00    | 5,900      | 235,581  | -3,00         | 685+0,000  | 235,758      | 236,381      | -0,623        | 5,900      | 235,581  | -3,00    | 6,180      | 235,862  | 0,281      |
| 7,165         | 236,544  | 1,265      |            |          | -3,00    | 5,900      | 235,279  | -3,00         | 686+0,000  | 235,456      | 235,818      | -0,362        | 5,900      | 235,279  | -3,00    | 6,367      | 235,746  | 0,467      |
| 7,823         | 236,769  | 1,923      |            |          | -3,00    | 5,900      | 234,846  | -3,00         | 687+0,000  | 235,023      | 235,710      | -0,687        | 5,900      | 234,846  | -3,00    | 7,011      | 235,957  | 1,111      |
| 7,658         | 236,040  | 1,758      |            |          | -3,00    | 5,900      | 234,282  | -3,00         | 688+0,000  | 234,459      | 234,665      | -0,206        | 5,900      | 234,282  | -3,00    | 6,963      | 235,345  | 1,063      |
| 7,493         | 235,179  | 1,593      |            |          | -3,00    | 5,900      | 233,586  | -3,00         | 689+0,000  | 233,763      | 233,988      | -0,225        | 5,900      | 233,586  | -3,00    | 6,037      | 233,723  | 0,137      |
| 7,785         | 234,644  | 1,885      |            |          | -3,00    | 5,900      | 232,759  | -3,00         | 690+0,000  | 232,936      | 233,185      | -0,249        | 5,900      | 232,759  | -3,00    | 7,252      | 234,112  | 1,353      |
| 6,651         | 233,048  | 0,751      |            |          | -3,00    | 5,900      | 232,297  | -3,00         | 690+10,000 | 232,474      | 232,813      | -0,339        | 5,900      | 232,297  | -3,00    | 7,218      | 233,615  | 1,318      |
| 6,914         | 232,831  | 1,013      |            |          | -3,00    | 5,900      | 231,818  | -3,00         | 691+0,000  | 231,995      | 232,348      | -0,353        | 5,900      | 231,818  | -3,00    | 6,979      | 232,896  | 1,078      |
| 7,165         | 232,125  | 1,265      |            |          | -3,00    | 5,900      | 230,860  | -3,00         | 692+0,000  | 231,037      | 231,265      | -0,228        | 5,900      | 230,860  | -3,00    | 6,300      | 231,260  | 0,400      |
| 6,146         | 229,738  | -0,164     |            |          | -3,00    | 5,900      | 229,902  | -3,00         | 693+0,000  | 230,079      | 229,798      | 0,281         | 5,900      | 229,902  | -3,00    | 7,085      | 231,086  | 1,184      |
| 6,592         | 228,553  | -0,461     |            |          | -3,00    | 5,900      | 229,014  | -3,00         | 694+0,000  | 229,191      | 228,621      | 0,570         | 5,900      | 229,014  | -3,00    | 6,794      | 228,418  | -0,596     |
| 6,548         | 227,835  | -0,433     |            |          | -3,00    | 5,900      | 228,268  | -3,00         | 695+0,000  | 228,445      | 227,521      | 0,924         | 5,900      | 228,268  | -3,00    | 6,562      | 228,930  | 0,662      |
| 7,678         | 226,477  | -1,185     |            |          | -3,00    | 5,900      | 227,662  | -3,00         | 696+0,000  | 227,839      | 226,452      | 1,387         | 5,900      | 227,662  | -3,00    | 6,417      | 227,317  | -0,345     |
| 7,990         | 225,804  | -1,393     |            |          | -3,00    | 5,900      | 227,197  | -3,00         | 697+0,000  | 227,374      | 225,492      | 1,882         | 5,900      | 227,197  | -3,00    | 7,122      | 226,383  | -0,814     |
| 8,198         | 225,342  | -1,532     |            |          | -3,00    | 5,900      | 226,874  | -3,00         | 698+0,000  | 227,051      | 224,952      | 2,099         | 5,900      | 226,874  | -3,00    | 7,432      | 225,852  | -1,022     |
| 9,501         | 224,290  | -2,401     |            |          | -3,00    | 5,900      | 226,691  | -3,00         | 699+0,000  | 226,868      | 224,518      | 2,350         | 5,900      | 226,691  | -3,00    | 10,202     | 223,824  | -2,867     |
| 8,508         | 224,908  | -1,739     |            |          | -3,00    | 5,900      | 226,647  | -3,00         | 699+15,891 | 226,824      | 224,685      | 2,139         | 5,900      | 226,647  | -3,00    | 9,613      | 224,171  | -2,476     |
| 8,420         | 224,970  | -1,680     |            |          | -3,00    | 5,900      | 226,650  | -3,00         | 700+0,000  | 226,827      | 224,805      | 2,022         | 5,900      | 226,650  | -3,00    | 9,519      | 224,238  | -2,412     |
| 7,652         | 225,581  | -1,168     |            |          | -3,00    | 5,900      | 226,749  | -3,00         | 701+0,000  | 226,926      | 225,362      | 1,564         | 5,900      | 226,749  | -3,00    | 7,548      | 225,651  | -1,098     |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |          |           |            |          |           |            |              |              |               |              |          |           |            |          |           |            |          |           |            |          |           |            |          |            |
|----------------------------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|--------------|--------------|---------------|--------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|------------|
| Lado Esquerdo                    |          |            |            |          |           |            |          |           |            |              |              |               | Lado Direito |          |           |            |          |           |            |          |           |            |          |           |            |          |            |
| Offset                           |          |            | Banqueta   |          |           |            | Bordo    |           |            | Eixo         |              |               | Bordo        |          |           |            | Banqueta |           |            |          | Offset    |            |          |           |            |          |            |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |
| 5,927                            | 227,017  | 0,027      |            |          | -3,00     | 5,900      | 226,990  | -3,00     | 702+0,000  | 227,167      | 226,896      | 0,271         | 5,900        | 226,990  | -3,00     | 5,900      | 226,990  | -3,00     |            |          |           |            |          | 6,559     | 227,649    | 0,659    |            |
| 7,085                            | 228,556  | 1,185      |            |          | -3,00     | 5,900      | 227,371  | -3,00     | 703+0,000  | 227,548      | 228,283      | -0,735        | 5,900        | 227,371  | -3,00     | 5,900      | 227,371  | -3,00     |            |          |           |            |          | 9,762     | 231,233    | 3,862    |            |
| 8,368                            | 230,361  | 2,467      |            |          | -3,00     | 5,900      | 227,894  | -3,00     | 704+0,000  | 228,071      | 230,007      | -1,936        | 5,900        | 227,894  | -3,00     | 5,900      | 227,894  | -3,00     |            |          |           |            |          | 10,547    | 232,541    | 4,647    |            |
| 8,921                            | 231,578  | 3,021      |            |          | -3,00     | 5,900      | 228,557  | -3,00     | 705+0,000  | 228,734      | 231,339      | -2,605        | 5,900        | 228,557  | -3,00     | 5,900      | 228,557  | -3,00     |            |          |           |            |          | 9,505     | 232,162    | 3,605    |            |
| 8,426                            | 231,888  | 2,526      |            |          | -3,00     | 5,900      | 229,362  | -3,00     | 706+0,000  | 229,539      | 231,824      | -2,285        | 5,900        | 229,362  | -3,00     | 5,900      | 229,362  | -3,00     |            |          |           |            |          | 9,200     | 232,661    | 3,299    |            |
| 8,453                            | 232,790  | 2,553      |            |          | -3,00     | 5,900      | 230,237  | -3,00     | 707+0,000  | 230,414      | 232,191      | -1,777        | 5,900        | 230,237  | -3,00     | 5,900      | 230,237  | -3,00     |            |          |           |            |          | 8,574     | 232,911    | 2,674    |            |
| 7,691                            | 232,903  | 1,791      |            |          | -3,00     | 5,900      | 231,112  | -3,00     | 708+0,000  | 231,289      | 232,502      | -1,213        | 5,900        | 231,112  | -3,00     | 5,900      | 231,112  | -3,00     |            |          |           |            |          | 8,116     | 233,327    | 2,215    |            |
| 7,199                            | 232,849  | 1,300      |            |          | -3,00     | 5,900      | 231,549  | -3,00     | 708+10,000 | 231,726      | 232,658      | -0,932        | 5,900        | 231,549  | -3,00     | 5,900      | 231,549  | -3,00     |            |          |           |            |          | 7,792     | 233,441    | 1,892    |            |
| 6,758                            | 232,835  | 0,858      |            |          | -3,00     | 5,900      | 231,977  | -3,00     | 709+0,000  | 232,154      | 232,789      | -0,635        | 5,900        | 231,977  | -3,00     | 5,900      | 231,977  | -3,00     |            |          |           |            |          | 7,422     | 233,499    | 1,522    |            |
| 6,263                            | 233,137  | 0,363      |            |          | -3,00     | 5,900      | 232,774  | -3,00     | 710+0,000  | 232,951      | 233,039      | -0,088        | 5,900        | 232,774  | -3,00     | 5,900      | 232,774  | -3,00     |            |          |           |            |          | 7,327     | 234,201    | 1,427    |            |
| 6,070                            | 233,661  | 0,169      |            |          | -3,00     | 5,900      | 233,492  | -3,00     | 711+0,000  | 233,669      | 233,810      | -0,141        | 5,900        | 233,492  | -3,00     | 5,900      | 233,492  | -3,00     |            |          |           |            |          | 7,363     | 234,955    | 1,463    |            |
| 6,222                            | 234,454  | 0,323      |            |          | -3,00     | 5,900      | 234,131  | -3,00     | 712+0,000  | 234,308      | 234,622      | -0,314        | 5,900        | 234,131  | -3,00     | 5,900      | 234,131  | -3,00     |            |          |           |            |          | 7,642     | 235,873    | 1,742    |            |
| 6,087                            | 234,880  | 0,187      |            |          | -3,00     | 5,900      | 234,693  | -3,00     | 713+0,000  | 234,870      | 235,426      | -0,556        | 5,900        | 234,693  | -3,00     | 5,900      | 234,693  | -3,00     |            |          |           |            |          | 7,795     | 236,588    | 1,895    |            |
| 7,521                            | 236,797  | 1,621      |            |          | -3,00     | 5,900      | 235,176  | -3,00     | 714+0,000  | 235,353      | 236,212      | -0,859        | 5,900        | 235,176  | -3,00     | 5,900      | 235,176  | -3,00     |            |          |           |            |          | 7,706     | 236,982    | 1,806    |            |
| 7,552                            | 237,233  | 1,653      |            |          | -3,00     | 5,900      | 235,580  | -3,00     | 715+0,000  | 235,757      | 236,557      | -0,800        | 5,900        | 235,580  | -3,00     | 5,900      | 235,580  | -3,00     |            |          |           |            |          | 6,920     | 236,601    | 1,021    |            |
| 7,510                            | 237,339  | 1,610      |            |          | -3,00     | 5,900      | 235,729  | -3,00     | 715+8,532  | 235,906      | 236,686      | -0,780        | 5,900        | 235,729  | -3,00     | 5,900      | 235,729  | -3,00     |            |          |           |            |          | 6,809     | 236,638    | 0,909    |            |
| 7,510                            | 237,339  | 1,610      |            |          | -3,00     | 5,900      | 235,729  | -3,00     | 715+8,539  | 235,906      | 236,686      | -0,780        | 5,900        | 235,729  | -3,00     | 5,900      | 235,729  | -3,00     |            |          |           |            |          | 6,809     | 236,638    | 0,909    |            |
| 7,285                            | 237,291  | 1,385      |            |          | -3,00     | 5,900      | 235,906  | -3,00     | 716+0,000  | 236,083      | 236,663      | -0,580        | 5,900        | 235,906  | -3,00     | 5,900      | 235,906  | -3,00     |            |          |           |            |          | 7,250     | 237,257    | 1,351    |            |
| 7,010                            | 237,264  | 1,110      |            |          | -3,00     | 5,900      | 236,154  | -3,00     | 717+0,000  | 236,331      | 236,575      | -0,244        | 5,900        | 236,154  | -3,00     | 5,900      | 236,154  | -3,00     |            |          |           |            |          | 6,716     | 236,970    | 0,816    |            |
| 6,575                            | 236,999  | 0,675      |            |          | -3,00     | 5,900      | 236,324  | -3,00     | 718+0,000  | 236,501      | 236,497      | 0,004         | 5,900        | 236,324  | -3,00     | 5,900      | 236,324  | -3,00     |            |          |           |            |          | 6,059     | 236,218    | -0,106   |            |
| 6,359                            | 236,837  | 0,458      |            |          | -3,00     | 5,900      | 236,379  | -3,00     | 718+10,000 | 236,556      | 236,555      | 0,001         | 5,900        | 236,379  | -3,00     | 5,900      | 236,379  | -3,00     |            |          |           |            |          | 6,130     | 236,225    | -0,154   |            |
| 6,206                            | 236,730  | 0,306      |            |          | -3,00     | 5,900      | 236,424  | -3,00     | 719+0,000  | 236,601      | 236,452      | 0,149         | 5,900        | 236,424  | -3,00     | 5,900      | 236,424  | -3,00     |            |          |           |            |          | 6,271     | 236,177    | -0,247   |            |
| 6,258                            | 236,277  | -0,238     |            |          | -3,00     | 5,900      | 236,515  | -3,00     | 720+0,000  | 236,692      | 236,316      | 0,376         | 5,900        | 236,515  | -3,00     | 5,900      | 236,515  | -3,00     |            |          |           |            |          | 6,616     | 236,038    | -0,477   |            |
| 6,664                            | 236,097  | -0,509     |            |          | -3,00     | 5,900      | 236,606  | -3,00     | 721+0,000  | 236,783      | 236,075      | 0,708         | 5,900        | 236,606  | -3,00     | 5,900      | 236,606  | -3,00     |            |          |           |            |          | 6,937     | 235,915    | -0,691   |            |
| 6,921                            | 236,016  | -0,681     |            |          | -3,00     | 5,900      | 236,697  | -3,00     | 722+0,000  | 236,874      | 235,922      | 0,952         | 5,900        | 236,697  | -3,00     | 5,900      | 236,697  | -3,00     |            |          |           |            |          | 7,158     | 235,858    | -0,839   |            |
| 7,456                            | 235,751  | -1,037     |            |          | -3,00     | 5,900      | 236,788  | -3,00     | 723+0,000  | 236,965      | 235,918      | 1,047         | 5,900        | 236,788  | -3,00     | 5,900      | 236,788  | -3,00     |            |          |           |            |          | 7,197     | 235,923    | -0,865   |            |
| 7,003                            | 236,143  | -0,736     |            |          | -3,00     | 5,900      | 236,879  | -3,00     | 724+0,000  | 237,056      | 235,948      | 1,108         | 5,900        | 236,879  | -3,00     | 5,900      | 236,879  | -3,00     |            |          |           |            |          | 7,036     | 236,121    | -0,758   |            |
| 7,059                            | 236,197  | -0,773     |            |          | -3,00     | 5,900      | 236,970  | -3,00     | 725+0,000  | 237,147      | 235,896      | 1,251         | 5,900        | 236,970  | -3,00     | 5,900      | 236,970  | -3,00     |            |          |           |            |          | 6,934     | 236,280    | -0,690   |            |
| 6,826                            | 236,443  | -0,618     |            |          | -3,00     | 5,900      | 237,061  | -3,00     | 726+0,000  | 237,238      | 236,241      | 0,997         | 5,900        | 237,061  | -3,00     | 5,900      | 237,061  | -3,00     |            |          |           |            |          | 6,089     | 236,934    | -0,127   |            |
| 6,012                            | 237,264  | 0,112      |            |          | -3,00     | 5,900      | 237,152  | -3,00     | 727+0,000  | 237,329      | 236,231      | 1,098         | 5,900        | 237,152  | -3,00     | 5,900      | 237,152  | -3,00     |            |          |           |            |          | 5,971     | 237,104    | -0,048   |            |

| Nota de Serviço de Terraplenagem |          |            |           |            |            |              |              |               |           |              |          |           |            |          |            |          |           |            |          |
|----------------------------------|----------|------------|-----------|------------|------------|--------------|--------------|---------------|-----------|--------------|----------|-----------|------------|----------|------------|----------|-----------|------------|----------|
| Rodovia : RO-010 Lote 01         |          |            |           |            |            |              |              |               |           |              |          |           |            |          |            |          |           |            |          |
| Lado Esquerdo                    |          |            |           |            |            |              |              |               |           | Lado Direito |          |           |            |          |            |          |           |            |          |
| Offset                           |          |            |           |            | Eixo       |              |              |               |           | Bordo        |          |           |            |          | Banqueta   |          |           |            |          |
| Afast. (m)                       | Cota (m) | Altura (m) | Incl. (%) | Afast. (m) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Incl. (%) | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) |
| 6,248                            | 237,591  | 0,349      | -3,00     | 5,900      | 728+0.000  | 237,419      | 236,776      | 0,643         | -3,00     | 5,900        | 237,242  | -3,00     | 5,900      | 237,242  | 5,940      | 237,215  | -0,027    | 5,940      | 237,215  |
| 6,199                            | 237,632  | 0,299      | -3,00     | 5,900      | 729+0.000  | 237,510      | 236,952      | 0,558         | -3,00     | 5,900        | 237,333  | -3,00     | 5,900      | 237,333  | 6,204      | 237,131  | -0,202    | 6,204      | 237,131  |
| 5,916                            | 237,440  | 0,016      | -3,00     | 5,900      | 730+0.000  | 237,601      | 237,072      | 0,529         | -3,00     | 5,900        | 237,424  | -3,00     | 5,900      | 237,424  | 6,232      | 237,203  | -0,221    | 6,232      | 237,203  |
| 5,914                            | 237,529  | 0,014      | -3,00     | 5,900      | 731+0.000  | 237,692      | 237,242      | 0,450         | -3,00     | 5,900        | 237,515  | -3,00     | 5,900      | 237,515  | 6,184      | 237,326  | -0,189    | 6,184      | 237,326  |
| 6,192                            | 237,853  | 0,292      | -3,00     | 5,900      | 732+0.000  | 237,738      | 237,440      | 0,298         | -3,00     | 5,900        | 237,561  | -3,00     | 5,900      | 237,561  | 5,960      | 237,521  | -0,040    | 5,960      | 237,521  |
| 6,184                            | 237,845  | 0,284      | -3,00     | 5,900      | 732+0.325  | 237,738      | 237,442      | 0,296         | -3,00     | 5,900        | 237,561  | -3,00     | 5,900      | 237,561  | 5,952      | 237,526  | -0,035    | 5,952      | 237,526  |
| 6,265                            | 237,883  | 0,365      | -3,00     | 5,900      | 733+0.000  | 237,695      | 237,637      | 0,058         | -3,00     | 5,900        | 237,518  | -3,00     | 5,900      | 237,518  | 6,087      | 237,705  | 0,187     | 6,087      | 237,705  |
| 6,440                            | 237,925  | 0,540      | -3,00     | 5,900      | 734+0.000  | 237,562      | 237,774      | -0,212        | -3,00     | 5,900        | 237,385  | -3,00     | 5,900      | 237,385  | 6,265      | 237,750  | 0,365     | 6,265      | 237,750  |
| 6,948                            | 238,211  | 1,048      | -3,00     | 5,900      | 735+0.000  | 237,340      | 237,654      | -0,314        | -3,00     | 5,900        | 237,163  | -3,00     | 5,900      | 237,163  | 6,512      | 237,776  | 0,613     | 6,512      | 237,776  |
| 6,945                            | 237,896  | 1,044      | -3,00     | 5,900      | 736+0.000  | 237,029      | 237,616      | -0,587        | -3,00     | 5,900        | 236,852  | -3,00     | 5,900      | 236,852  | 6,873      | 237,825  | 0,973     | 6,873      | 237,825  |
| 7,573                            | 238,124  | 1,674      | -3,00     | 5,900      | 737+0.000  | 236,627      | 237,327      | -0,700        | -3,00     | 5,900        | 236,450  | -3,00     | 5,900      | 236,450  | 7,231      | 237,782  | 1,332     | 7,231      | 237,782  |
| 6,878                            | 236,938  | 0,978      | -3,00     | 5,900      | 738+0.000  | 236,137      | 236,847      | -0,710        | -3,00     | 5,900        | 235,960  | -3,00     | 5,900      | 235,960  | 7,117      | 237,177  | 1,217     | 7,117      | 237,177  |
| 6,871                            | 236,351  | 0,971      | -3,00     | 5,900      | 739+0.000  | 235,557      | 236,286      | -0,729        | -3,00     | 5,900        | 235,380  | -3,00     | 5,900      | 235,380  | 6,682      | 236,162  | 0,782     | 6,682      | 236,162  |
| 6,382                            | 235,192  | 0,482      | -3,00     | 5,900      | 740+0.000  | 234,887      | 235,313      | -0,426        | -3,00     | 5,900        | 234,710  | -3,00     | 5,900      | 234,710  | 6,741      | 235,551  | 0,841     | 6,741      | 235,551  |
| 6,794                            | 234,891  | 0,895      | -3,00     | 5,900      | 741+0.000  | 234,173      | 234,715      | -0,542        | -3,00     | 5,900        | 233,996  | -3,00     | 5,900      | 233,996  | 7,433      | 235,529  | 1,533     | 7,433      | 235,529  |
| 6,041                            | 233,423  | 0,141      | -3,00     | 5,900      | 742+0.000  | 233,459      | 233,297      | 0,162         | -3,00     | 5,900        | 233,282  | -3,00     | 5,900      | 233,282  | 6,693      | 234,075  | 0,793     | 6,693      | 234,075  |
| 7,216                            | 234,241  | 1,316      | -3,00     | 5,900      | 742+10.000 | 233,102      | 232,514      | 0,588         | -3,00     | 5,900        | 232,925  | -3,00     | 5,900      | 232,925  | 6,734      | 232,369  | -0,556    | 6,734      | 232,369  |
| 6,550                            | 233,245  | 0,650      | -3,00     | 5,900      | 743+0.000  | 232,772      | 231,751      | 1,021         | -3,00     | 5,900        | 232,595  | -3,00     | 5,900      | 232,595  | 7,510      | 231,521  | -1,074    | 7,510      | 231,521  |
| 6,901                            | 231,428  | -0,667     | -3,00     | 5,900      | 744+0.000  | 232,272      | 230,655      | 1,617         | -3,00     | 5,900        | 232,095  | -3,00     | 5,900      | 232,095  | 8,768      | 230,183  | -1,912    | 8,768      | 230,183  |
| 9,497                            | 229,412  | -2,398     | -3,00     | 5,900      | 745+0.000  | 231,987      | 229,956      | 2,031         | -3,00     | 5,900        | 231,810  | -3,00     | 5,900      | 231,810  | 9,844      | 229,181  | -2,629    | 9,844      | 229,181  |
| 11,531                           | 227,982  | -3,754     | -3,00     | 5,900      | 745+16.588 | 231,913      | 230,041      | 1,872         | -3,00     | 5,900        | 231,736  | -3,00     | 5,900      | 231,736  | 10,175     | 228,886  | -2,850    | 10,175     | 228,886  |
| 12,105                           | 227,603  | -4,136     | -3,00     | 5,900      | 746+0.000  | 231,916      | 230,103      | 1,813         | -3,00     | 5,900        | 231,739  | -3,00     | 5,900      | 231,739  | 9,887      | 229,081  | -2,658    | 9,887      | 229,081  |
| 8,594                            | 230,087  | -1,796     | -3,00     | 5,900      | 747+0.000  | 232,060      | 230,537      | 1,523         | -3,00     | 5,900        | 231,883  | -3,00     | 5,900      | 231,883  | 8,545      | 230,120  | -1,763    | 8,545      | 230,120  |
| 6,328                            | 231,956  | -0,285     | -3,00     | 5,900      | 748+0.000  | 232,418      | 231,630      | 0,788         | -3,00     | 5,900        | 232,241  | -3,00     | 5,900      | 232,241  | 7,233      | 231,353  | -0,888    | 7,233      | 231,353  |
| 7,535                            | 234,449  | 1,635      | -3,00     | 5,900      | 749+0.000  | 232,991      | 233,228      | -0,237        | -3,00     | 5,900        | 232,814  | -3,00     | 5,900      | 232,814  | 6,097      | 232,683  | -0,131    | 6,097      | 232,683  |
| 8,189                            | 235,470  | 2,289      | -3,00     | 5,900      | 749+10.000 | 233,358      | 234,134      | -0,776        | -3,00     | 5,900        | 233,181  | -3,00     | 5,900      | 233,181  | 7,230      | 234,511  | 1,330     | 7,230      | 234,511  |
| 8,149                            | 235,824  | 2,249      | -3,00     | 5,900      | 750+0.000  | 233,752      | 234,731      | -0,979        | -3,00     | 5,900        | 233,575  | -3,00     | 5,900      | 233,575  | 7,555      | 235,230  | 1,655     | 7,555      | 235,230  |
| 7,708                            | 236,170  | 1,808      | -3,00     | 5,900      | 751+0.000  | 234,539      | 235,932      | -1,393        | -3,00     | 5,900        | 234,362  | -3,00     | 5,900      | 234,362  | 8,202      | 236,664  | 2,302     | 8,202      | 236,664  |
| 7,537                            | 236,717  | 1,637      | -3,00     | 5,900      | 752+0.000  | 235,257      | 236,738      | -1,481        | -3,00     | 5,900        | 235,080  | -3,00     | 5,900      | 235,080  | 8,256      | 237,436  | 2,356     | 8,256      | 237,436  |
| 7,791                            | 237,551  | 1,891      | -3,00     | 5,900      | 753+0.000  | 235,837      | 237,197      | -1,360        | -3,00     | 5,900        | 235,660  | -3,00     | 5,900      | 235,660  | 8,711      | 238,471  | 2,811     | 8,711      | 238,471  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |  |            |          |           |  |            |          |           |            |              |              |               |            |          |           |          |            |          |           |  |            |          |           |  |            |          |            |  |  |
|----------------------------------|----------|------------|--|------------|----------|-----------|--|------------|----------|-----------|------------|--------------|--------------|---------------|------------|----------|-----------|----------|------------|----------|-----------|--|------------|----------|-----------|--|------------|----------|------------|--|--|
| Rodovia : RO-010    Lote 01      |          |            |  |            |          |           |  |            |          |           |            |              |              |               |            |          |           |          |            |          |           |  |            |          |           |  |            |          |            |  |  |
| Lado Esquerdo                    |          |            |  |            |          |           |  |            |          |           |            |              |              | Lado Direito  |            |          |           |          |            |          |           |  |            |          |           |  |            |          |            |  |  |
| Offset                           |          |            |  | Banqueta   |          |           |  |            |          | Bordo     |            |              |              | Eixo          |            |          |           | Banqueta |            |          |           |  |            | Bordo    |           |  |            | Offset   |            |  |  |
| Afast. (m)                       | Cota (m) | Altura (m) |  | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Incl. (%) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) |          | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Altura (m) |  |  |
| 7,894                            | 238,095  | 1,993      |  |            |          | -3,00     |  | 5,900      | 236,102  | -3,00     | 7544+0,000 | 236,279      | 237,622      | -1,343        | 5,900      | 236,102  | -3,00     |          | 5,900      | 236,102  | -3,00     |  | 5,900      | 236,102  | -3,00     |  | 8,389      | 238,591  | 2,489      |  |  |
| 7,495                            | 238,018  | 1,595      |  |            |          | -3,00     |  | 5,900      | 236,423  | -3,00     | 755+0,000  | 236,600      | 237,655      | -1,055        | 5,900      | 236,423  | -3,00     |          | 5,900      | 236,423  | -3,00     |  | 5,900      | 236,423  | -3,00     |  | 8,438      | 238,961  | 2,538      |  |  |
| 6,621                            | 237,364  | 0,721      |  |            |          | -3,00     |  | 5,900      | 236,643  | -3,00     | 756+0,000  | 236,820      | 236,993      | -0,173        | 5,900      | 236,643  | -3,00     |          | 5,900      | 236,643  | -3,00     |  | 5,900      | 236,643  | -3,00     |  | 7,554      | 238,297  | 1,654      |  |  |
| 6,371                            | 237,232  | 0,470      |  |            |          | -3,00     |  | 5,900      | 236,762  | -3,00     | 757+0,000  | 236,939      | 236,571      | 0,368         | 5,900      | 236,762  | -3,00     |          | 5,900      | 236,762  | -3,00     |  | 5,900      | 236,762  | -3,00     |  | 6,596      | 237,458  | 0,696      |  |  |
| 6,041                            | 236,923  | 0,140      |  |            |          | -3,00     |  | 5,900      | 236,783  | -3,00     | 757+10,000 | 236,960      | 236,366      | 0,594         | 5,900      | 236,783  | -3,00     |          | 5,900      | 236,783  | -3,00     |  | 5,900      | 236,783  | -3,00     |  | 6,320      | 237,203  | 0,420      |  |  |
| 6,246                            | 236,560  | -0,231     |  |            |          | -3,00     |  | 5,900      | 236,791  | -3,00     | 758+0,000  | 236,968      | 236,386      | 0,582         | 5,900      | 236,791  | -3,00     |          | 5,900      | 236,791  | -3,00     |  | 5,900      | 236,791  | -3,00     |  | 6,275      | 237,166  | 0,375      |  |  |
| 6,751                            | 236,240  | -0,568     |  |            |          | -3,00     |  | 5,900      | 236,808  | -3,00     | 759+0,000  | 236,985      | 236,335      | 0,650         | 5,900      | 236,808  | -3,00     |          | 5,900      | 236,808  | -3,00     |  | 5,900      | 236,808  | -3,00     |  | 6,938      | 236,116  | -0,692     |  |  |
| 6,787                            | 236,233  | -0,591     |  |            |          | -3,00     |  | 5,900      | 236,824  | -3,00     | 760+0,000  | 237,001      | 236,461      | 0,540         | 5,900      | 236,824  | -3,00     |          | 5,900      | 236,824  | -3,00     |  | 5,900      | 236,824  | -3,00     |  | 6,066      | 236,713  | -0,111     |  |  |
| 6,765                            | 236,264  | -0,577     |  |            |          | -3,00     |  | 5,900      | 236,841  | -3,00     | 761+0,000  | 237,018      | 236,379      | 0,639         | 5,900      | 236,841  | -3,00     |          | 5,900      | 236,841  | -3,00     |  | 5,900      | 236,841  | -3,00     |  | 5,958      | 236,803  | -0,038     |  |  |
| 6,548                            | 237,506  | 0,648      |  |            |          | -3,00     |  | 5,900      | 236,858  | -3,00     | 762+0,000  | 237,035      | 236,882      | 0,153         | 5,900      | 236,858  | -3,00     |          | 5,900      | 236,858  | -3,00     |  | 5,900      | 236,858  | -3,00     |  | 7,066      | 238,023  | 1,165      |  |  |
| 6,954                            | 237,929  | 1,055      |  |            |          | -3,00     |  | 5,900      | 236,874  | -3,00     | 763+0,000  | 237,051      | 237,222      | -0,171        | 5,900      | 236,874  | -3,00     |          | 5,900      | 236,874  | -3,00     |  | 5,900      | 236,874  | -3,00     |  | 7,065      | 238,039  | 1,165      |  |  |
| 6,414                            | 237,405  | 0,514      |  |            |          | -3,00     |  | 5,900      | 236,891  | -3,00     | 764+0,000  | 237,068      | 237,376      | -0,308        | 5,900      | 236,891  | -3,00     |          | 5,900      | 236,891  | -3,00     |  | 5,900      | 236,891  | -3,00     |  | 6,955      | 237,946  | 1,055      |  |  |
| 6,795                            | 237,802  | 0,894      |  |            |          | -3,00     |  | 5,900      | 236,908  | -3,00     | 765+0,000  | 237,085      | 237,583      | -0,498        | 5,900      | 236,908  | -3,00     |          | 5,900      | 236,908  | -3,00     |  | 5,900      | 236,908  | -3,00     |  | 7,265      | 238,272  | 1,364      |  |  |
| 7,452                            | 238,476  | 1,552      |  |            |          | -3,00     |  | 5,900      | 236,924  | -3,00     | 766+0,000  | 237,101      | 237,994      | -0,893        | 5,900      | 236,924  | -3,00     |          | 5,900      | 236,924  | -3,00     |  | 5,900      | 236,924  | -3,00     |  | 6,961      | 237,985  | 1,061      |  |  |
| 7,639                            | 238,680  | 1,739      |  |            |          | -3,00     |  | 5,900      | 236,941  | -3,00     | 767+0,000  | 237,118      | 238,058      | -0,940        | 5,900      | 236,941  | -3,00     |          | 5,900      | 236,941  | -3,00     |  | 5,900      | 236,941  | -3,00     |  | 7,027      | 238,068  | 1,127      |  |  |
| 7,745                            | 238,803  | 1,845      |  |            |          | -3,00     |  | 5,900      | 236,958  | -3,00     | 768+0,000  | 237,135      | 237,949      | -0,814        | 5,900      | 236,958  | -3,00     |          | 5,900      | 236,958  | -3,00     |  | 5,900      | 236,958  | -3,00     |  | 7,045      | 238,102  | 1,144      |  |  |
| 7,927                            | 239,002  | 2,028      |  |            |          | -3,00     |  | 5,900      | 236,974  | -3,00     | 769+0,000  | 237,151      | 237,810      | -0,659        | 5,900      | 236,974  | -3,00     |          | 5,900      | 236,974  | -3,00     |  | 5,900      | 236,974  | -3,00     |  | 6,449      | 237,524  | 0,550      |  |  |
| 7,822                            | 238,913  | 1,922      |  |            |          | -3,00     |  | 5,900      | 236,991  | -3,00     | 770+0,000  | 237,168      | 237,386      | -0,218        | 5,900      | 236,991  | -3,00     |          | 5,900      | 236,991  | -3,00     |  | 5,900      | 236,991  | -3,00     |  | 6,529      | 237,620  | 0,629      |  |  |
| 6,982                            | 238,089  | 1,081      |  |            |          | -3,00     |  | 5,900      | 237,008  | -3,00     | 771+0,000  | 237,185      | 237,062      | 0,123         | 5,900      | 237,008  | -3,00     |          | 5,900      | 237,008  | -3,00     |  | 5,900      | 237,008  | -3,00     |  | 6,223      | 236,792  | -0,216     |  |  |
| 5,955                            | 236,988  | -0,036     |  |            |          | -3,00     |  | 5,900      | 237,024  | -3,00     | 772+0,000  | 237,201      | 236,745      | 0,456         | 5,900      | 237,024  | -3,00     |          | 5,900      | 237,024  | -3,00     |  | 5,900      | 237,024  | -3,00     |  | 6,062      | 236,916  | -0,108     |  |  |
| 6,508                            | 236,635  | -0,406     |  |            |          | -3,00     |  | 5,900      | 237,041  | -3,00     | 773+0,000  | 237,218      | 236,522      | 0,696         | 5,900      | 237,041  | -3,00     |          | 5,900      | 237,041  | -3,00     |  | 5,900      | 237,041  | -3,00     |  | 6,651      | 236,540  | -0,501     |  |  |
| 6,204                            | 237,361  | 0,303      |  |            |          | -3,00     |  | 5,900      | 237,058  | -3,00     | 774+0,000  | 237,235      | 236,473      | 0,762         | 5,900      | 237,058  | -3,00     |          | 5,900      | 237,058  | -3,00     |  | 5,900      | 237,058  | -3,00     |  | 6,463      | 236,682  | -0,376     |  |  |
| 6,143                            | 236,912  | -0,162     |  |            |          | -3,00     |  | 5,900      | 237,074  | -3,00     | 775+0,000  | 237,251      | 236,630      | 0,621         | 5,900      | 237,074  | -3,00     |          | 5,900      | 237,074  | -3,00     |  | 5,900      | 237,074  | -3,00     |  | 6,707      | 236,536  | -0,538     |  |  |
| 6,320                            | 236,859  | -0,279     |  |            |          | -3,00     |  | 5,900      | 237,138  | -3,00     | 776+0,000  | 237,315      | 236,763      | 0,552         | 5,900      | 237,138  | -3,00     |          | 5,900      | 237,138  | -3,00     |  | 5,900      | 237,138  | -3,00     |  | 6,130      | 236,985  | -0,153     |  |  |
| 6,061                            | 237,190  | -0,108     |  |            |          | -3,00     |  | 5,900      | 237,298  | -3,00     | 777+0,000  | 237,475      | 236,834      | 0,641         | 5,900      | 237,298  | -3,00     |          | 5,900      | 237,298  | -3,00     |  | 5,900      | 237,298  | -3,00     |  | 6,340      | 237,004  | -0,294     |  |  |
| 5,919                            | 237,571  | 0,019      |  |            |          | -3,00     |  | 5,900      | 237,552  | -3,00     | 778+0,000  | 237,729      | 237,166      | 0,563         | 5,900      | 237,552  | -3,00     |          | 5,900      | 237,552  | -3,00     |  | 5,900      | 237,552  | -3,00     |  | 5,988      | 237,493  | -0,059     |  |  |
| 6,142                            | 238,143  | 0,242      |  |            |          | -3,00     |  | 5,900      | 237,901  | -3,00     | 779+0,000  | 238,078      | 237,652      | 0,426         | 5,900      | 237,901  | -3,00     |          | 5,900      | 237,901  | -3,00     |  | 5,900      | 237,901  | -3,00     |  | 6,045      | 238,047  | 0,146      |  |  |
| 6,092                            | 238,538  | 0,192      |  |            |          | -3,00     |  | 5,900      | 238,346  | -3,00     | 780+0,000  | 238,523      | 238,567      | -0,044        | 5,900      | 238,346  | -3,00     |          | 5,900      | 238,346  | -3,00     |  | 5,900      | 238,346  | -3,00     |  | 7,018      | 239,464  | 1,118      |  |  |
| 6,722                            | 239,707  | 0,821      |  |            |          | -3,00     |  | 5,900      | 238,886  | -3,00     | 781+0,000  | 239,063      | 239,398      | -0,335        | 5,900      | 238,886  | -3,00     |          | 5,900      | 238,886  | -3,00     |  | 5,900      | 238,886  | -3,00     |  | 6,664      | 239,650  | 0,764      |  |  |
| 7,302                            | 240,874  | 1,401      |  |            |          | -3,00     |  | 5,900      | 239,473  | -3,00     | 782+0,000  | 239,650      | 240,037      | -0,387        | 5,900      | 239,473  | -3,00     |          | 5,900      | 239,473  | -3,00     |  | 5,900      | 239,473  | -3,00     |  | 6,876      | 240,448  | 0,975      |  |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |           |            |          |           |            |          |            |         |              |              |               |           |              |          |           |            |          |
|---------------|----------|------------|-----------|------------|----------|-----------|------------|----------|------------|---------|--------------|--------------|---------------|-----------|--------------|----------|-----------|------------|----------|
| Offet         |          |            |           |            |          |           |            |          |            | Eixo    |              |              |               |           |              |          |           |            |          |
| Banqueta      |          |            |           |            | Bordo    |           |            |          |            | Cota    |              |              |               |           | Lado Direito |          |           |            |          |
| Afast. (m)    | Cota (m) | Altura (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Incl. (%) | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) |
| 6,098         | 240,257  | 0,197      | -3,00     | 5,900      | 240,060  | -3,00     | 783+0,000  | -0,427   | 5,900      | 240,060 | 240,237      | 240,664      | -0,427        | -3,00     | 7,142        | 241,302  | -3,00     | 7,142      | 241,302  |
| 6,472         | 241,219  | 0,572      | -3,00     | 5,900      | 240,647  | -3,00     | 784+0,000  | -0,469   | 5,900      | 240,647 | 240,824      | 241,293      | -0,469        | -3,00     | 7,344        | 242,091  | -3,00     | 7,344      | 242,091  |
| 5,931         | 241,213  | -0,021     | -3,00     | 5,900      | 241,234  | -3,00     | 785+0,000  | -0,375   | 5,900      | 241,234 | 241,411      | 241,786      | -0,375        | -3,00     | 7,321        | 242,655  | -3,00     | 7,321      | 242,655  |
| 5,919         | 241,762  | -0,012     | -3,00     | 5,900      | 241,774  | -3,00     | 786+0,000  | -0,035   | 5,900      | 241,774 | 241,951      | 241,986      | -0,035        | -3,00     | 6,506        | 242,380  | -3,00     | 6,506      | 242,380  |
| 6,202         | 242,523  | 0,302      | -3,00     | 5,900      | 242,221  | -3,00     | 787+0,000  | 0,068    | 5,900      | 242,221 | 242,398      | 242,330      | 0,068         | -3,00     | 6,821        | 243,142  | -3,00     | 6,821      | 243,142  |
| 6,494         | 243,169  | 0,594      | -3,00     | 5,900      | 242,575  | -3,00     | 788+0,000  | -0,080   | 5,900      | 242,575 | 242,752      | 242,832      | -0,080        | -3,00     | 6,440        | 243,115  | -3,00     | 6,440      | 243,115  |
| 6,442         | 243,377  | 0,542      | -3,00     | 5,900      | 242,835  | -3,00     | 789+0,000  | 0,038    | 5,900      | 242,835 | 243,012      | 242,974      | 0,038         | -3,00     | 6,138        | 243,074  | -3,00     | 6,138      | 243,074  |
| 6,917         | 244,019  | 1,017      | -3,00     | 5,900      | 243,002  | -3,00     | 790+0,000  | -0,026   | 5,900      | 243,002 | 243,179      | 243,205      | -0,026        | -3,00     | 6,511        | 243,613  | -3,00     | 6,511      | 243,613  |
| 6,858         | 244,034  | 0,958      | -3,00     | 5,900      | 243,076  | -3,00     | 791+0,000  | 0,097    | 5,900      | 243,076 | 243,253      | 243,156      | 0,097         | -3,00     | 6,552        | 243,728  | -3,00     | 6,552      | 243,728  |
| 6,770         | 243,950  | 0,870      | -3,00     | 5,900      | 243,080  | -3,00     | 791+5,779  | 0,194    | 5,900      | 243,080 | 243,257      | 243,063      | 0,194         | -3,00     | 6,379        | 243,559  | -3,00     | 6,379      | 243,559  |
| 6,920         | 244,076  | 1,020      | -3,00     | 5,900      | 243,056  | -3,00     | 792+0,000  | 0,136    | 5,900      | 243,056 | 243,233      | 243,097      | 0,136         | -3,00     | 6,020        | 243,177  | -3,00     | 6,020      | 243,177  |
| 6,853         | 243,896  | 0,953      | -3,00     | 5,900      | 242,943  | -3,00     | 793+0,000  | 0,088    | 5,900      | 242,943 | 243,120      | 243,032      | 0,088         | -3,00     | 6,120        | 243,163  | -3,00     | 6,120      | 243,163  |
| 7,082         | 243,919  | 1,182      | -3,00     | 5,900      | 242,737  | -3,00     | 794+0,000  | 0,089    | 5,900      | 242,737 | 242,914      | 242,825      | 0,089         | -3,00     | 6,157        | 242,994  | -3,00     | 6,157      | 242,994  |
| 6,048         | 242,585  | 0,148      | -3,00     | 5,900      | 242,437  | -3,00     | 795+0,000  | -0,027   | 5,900      | 242,437 | 242,614      | 242,641      | -0,027        | -3,00     | 5,939        | 242,476  | -3,00     | 5,939      | 242,476  |
| 6,452         | 242,596  | 0,552      | -3,00     | 5,900      | 242,044  | -3,00     | 796+0,000  | -0,234   | 5,900      | 242,044 | 242,221      | 242,455      | -0,234        | -3,00     | 6,232        | 242,376  | -3,00     | 6,232      | 242,376  |
| 7,285         | 242,942  | 1,384      | -3,00     | 5,900      | 241,558  | -3,00     | 797+0,000  | -0,235   | 5,900      | 241,558 | 241,735      | 241,970      | -0,235        | -3,00     | 7,212        | 242,870  | -3,00     | 7,212      | 242,870  |
| 7,008         | 242,085  | 1,107      | -3,00     | 5,900      | 240,978  | -3,00     | 798+0,000  | -0,286   | 5,900      | 240,978 | 241,155      | 241,441      | -0,286        | -3,00     | 6,644        | 241,722  | -3,00     | 6,644      | 241,722  |
| 7,530         | 241,934  | 1,629      | -3,00     | 5,900      | 240,305  | -3,00     | 799+0,000  | -0,315   | 5,900      | 240,305 | 240,482      | 240,797      | -0,315        | -3,00     | 6,113        | 240,517  | -3,00     | 6,113      | 240,517  |
| 7,353         | 240,991  | 1,453      | -3,00     | 5,900      | 239,538  | -3,00     | 800+0,000  | -0,326   | 5,900      | 239,538 | 239,715      | 240,041      | -0,326        | -3,00     | 6,770        | 240,408  | -3,00     | 6,770      | 240,408  |
| 6,960         | 239,738  | 1,060      | -3,00     | 5,900      | 238,678  | -3,00     | 801+0,000  | 0,185    | 5,900      | 238,678 | 238,855      | 238,670      | 0,185         | -3,00     | 6,010        | 238,605  | -0,073    | 6,010      | 238,605  |
| 6,790         | 238,615  | 0,890      | -3,00     | 5,900      | 237,725  | -3,00     | 802+0,000  | 0,226    | 5,900      | 237,725 | 237,902      | 237,676      | 0,226         | -3,00     | 6,635        | 237,235  | -0,490    | 6,635      | 237,235  |
| 6,418         | 237,243  | 0,518      | -3,00     | 5,900      | 236,725  | -3,00     | 803+0,000  | 0,487    | 5,900      | 236,725 | 236,902      | 236,415      | 0,487         | -3,00     | 6,582        | 236,271  | -0,454    | 6,582      | 236,271  |
| 5,956         | 235,781  | 0,056      | -3,00     | 5,900      | 235,725  | -3,00     | 804+0,000  | 0,438    | 5,900      | 235,725 | 235,902      | 235,464      | 0,438         | -3,00     | 6,431        | 235,371  | -0,354    | 6,431      | 235,371  |
| 6,481         | 235,384  | 0,581      | -3,00     | 5,900      | 234,803  | -3,00     | 805+0,000  | 0,995    | 5,900      | 234,803 | 234,980      | 233,985      | 0,995         | -3,00     | 6,265        | 234,560  | -0,243    | 6,265      | 234,560  |
| 6,168         | 233,859  | -0,179     | -3,00     | 5,900      | 234,038  | -3,00     | 806+0,000  | 0,962    | 5,900      | 234,038 | 234,215      | 233,253      | 0,962         | -3,00     | 6,784        | 233,449  | -0,589    | 6,784      | 233,449  |
| 6,984         | 232,706  | -0,723     | -3,00     | 5,900      | 233,429  | -3,00     | 807+0,000  | 1,205    | 5,900      | 233,429 | 232,401      | 232,401      | 1,205         | -3,00     | 7,687        | 232,237  | -1,192    | 7,687      | 232,237  |
| 8,134         | 231,486  | -1,490     | -3,00     | 5,900      | 232,976  | -3,00     | 808+0,000  | 1,244    | 5,900      | 232,976 | 231,909      | 231,909      | 1,244         | -3,00     | 8,208        | 231,437  | -1,539    | 8,208      | 231,437  |
| 9,502         | 230,278  | -2,401     | -3,00     | 5,900      | 232,679  | -3,00     | 809+0,000  | 1,251    | 5,900      | 232,679 | 232,856      | 231,605      | 1,251         | -3,00     | 10,051       | 229,912  | -2,767    | 10,051     | 229,912  |
| 10,299        | 229,606  | -2,933     | -3,00     | 5,900      | 232,539  | -3,00     | 810+0,000  | 0,867    | 5,900      | 232,539 | 232,716      | 231,849      | 0,867         | -3,00     | 8,366        | 230,895  | -1,644    | 8,366      | 230,895  |
| 10,356        | 229,556  | -2,971     | -3,00     | 5,900      | 232,527  | -3,00     | 810+7,943  | 0,879    | 5,900      | 232,527 | 232,704      | 231,825      | 0,879         | -3,00     | 7,910        | 231,187  | -1,340    | 7,910      | 231,187  |









## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo                      |          |            |           |          |            |           |          |             |           | Lado Direito                       |            |           |          |            |           |          |            |           |          |                                    |           |          |            |           |          |            |  |  |  |
|------------------------------------|----------|------------|-----------|----------|------------|-----------|----------|-------------|-----------|------------------------------------|------------|-----------|----------|------------|-----------|----------|------------|-----------|----------|------------------------------------|-----------|----------|------------|-----------|----------|------------|--|--|--|
| Offset                             |          |            |           |          | Banqueta   |           |          |             |           | Bordo                              |            |           |          |            | Banqueta  |          |            |           |          | Offset                             |           |          |            |           |          |            |  |  |  |
| Afast. (m)                         | Cota (m) | Altura (m) | Incl. (%) | Cota (m) | Afast. (m) | Incl. (%) | Cota (m) | Afast. (m)  | Incl. (%) | Cota (m)                           | Afast. (m) | Incl. (%) | Cota (m) | Afast. (m) | Incl. (%) | Cota (m) | Afast. (m) | Incl. (%) | Cota (m) | Afast. (m)                         | Incl. (%) | Cota (m) | Afast. (m) | Incl. (%) | Cota (m) | Altura (m) |  |  |  |
| 6,047                              | 243,547  | -0,098     |           |          | 5,900      | 243,645   | -3,00    | 1+0,000     | 243,822   | 243,438                            | 0,384      | 5,900     | 243,959  | 3,00       |           |          |            |           |          | 6,911                              | 243,325   | -0,674   |            |           |          |            |  |  |  |
| 6,076                              | 243,525  | -0,117     |           |          | 5,900      | 243,642   | -3,00    | 1+2,992     | 243,819   | 243,411                            | 0,408      | 5,900     | 243,956  | 3,00       |           |          |            |           |          | 7,097                              | 243,198   | -0,798   |            |           |          |            |  |  |  |
| 6,140                              | 243,869  | 0,240      |           |          | 5,900      | 243,629   | -3,00    | 2+0,000     | 243,806   | 242,986                            | 0,820      | 5,900     | 243,983  | 3,00       |           |          |            |           |          | 7,485                              | 242,926   | -1,057   |            |           |          |            |  |  |  |
| 6,045                              | 243,769  | 0,145      |           |          | 5,900      | 243,624   | -3,00    | 2+5,984     | 243,801   | 243,065                            | 0,736      | 5,900     | 243,978  | 3,00       |           |          |            |           |          | 7,344                              | 243,015   | -0,963   |            |           |          |            |  |  |  |
| 6,296                              | 243,348  | -0,264     |           |          | 5,900      | 243,612   | -3,00    | 3+0,000     | 243,789   | 243,333                            | 0,456      | 5,900     | 243,966  | 3,00       |           |          |            |           |          | 7,280                              | 243,046   | -0,920   |            |           |          |            |  |  |  |
| 6,715                              | 244,414  | 0,816      |           |          | 5,900      | 243,598   | -3,00    | 3+17,255    | 243,775   | 243,791                            | -0,016     | 5,900     | 243,952  | 3,00       |           |          |            |           |          | 6,958                              | 243,247   | -0,705   |            |           |          |            |  |  |  |
| 6,732                              | 244,428  | 0,832      |           |          | 5,900      | 243,596   | -3,00    | 4+0,000     | 243,773   | 243,834                            | -0,061     | 5,900     | 243,950  | 3,00       |           |          |            |           |          | 6,837                              | 243,326   | -0,624   |            |           |          |            |  |  |  |
| 6,568                              | 244,248  | 0,668      |           |          | 5,900      | 243,580   | -3,00    | 5+0,000     | 243,757   | 243,571                            | 0,186      | 5,900     | 243,934  | 3,00       |           |          |            |           |          | 6,090                              | 243,807   | -0,127   |            |           |          |            |  |  |  |
| 6,696                              | 244,369  | 0,796      |           |          | 5,900      | 243,573   | -3,00    | 5+8,527     | 243,750   | 243,763                            | -0,013     | 5,900     | 243,927  | 3,00       |           |          |            |           |          | 6,085                              | 243,817   | -0,110   |            |           |          |            |  |  |  |
| 6,790                              | 244,454  | 0,891      |           |          | 5,900      | 243,563   | -3,00    | 6+0,000     | 243,740   | 244,288                            | -0,548     | 5,900     | 243,917  | 3,00       |           |          |            |           |          | 6,193                              | 244,211   | 0,294    |            |           |          |            |  |  |  |
| 6,617                              | 244,271  | 0,717      |           |          | 5,900      | 243,554   | -3,00    | 6+11,519    | 243,731   | 244,339                            | -0,608     | 5,900     | 243,908  | 3,00       |           |          |            |           |          | 6,394                              | 244,402   | 0,494    |            |           |          |            |  |  |  |
| 6,489                              | 244,136  | 0,589      |           |          | 5,900      | 243,547   | -3,00    | 7+0,000     | 243,724   | 244,111                            | -0,387     | 5,900     | 243,901  | 3,00       |           |          |            |           |          | 6,091                              | 244,092   | 0,191    |            |           |          |            |  |  |  |
| Sobreposição com a pista principal |          |            |           |          |            |           |          |             |           | Sobreposição com a pista principal |            |           |          |            |           |          |            |           |          | Sobreposição com a pista principal |           |          |            |           |          |            |  |  |  |
| 7+14,510                           |          |            |           |          |            |           |          |             |           | 7+14,510                           |            |           |          |            |           |          |            |           |          | 7+14,510                           |           |          |            |           |          |            |  |  |  |
| CONTINUAÇÃO PISTA RO-010           |          |            |           |          |            |           |          |             |           |                                    |            |           |          |            |           |          |            |           |          |                                    |           |          |            |           |          |            |  |  |  |
| 6,632                              | 243,944  | 0,733      |           |          | 5,900      | 243,211   | -3,00    | 85+4+2,080  | 243,388   | 243,555                            | -0,167     | 5,900     | 243,565  | 3,00       |           |          |            |           |          | 6,097                              | 243,762   | 0,197    |            |           |          |            |  |  |  |
| 6,727                              | 243,982  | 0,828      |           |          | 5,900      | 243,154   | -3,00    | 85+4+19,983 | 243,331   | 243,563                            | -0,232     | 5,900     | 243,331  | 0,00       |           |          |            |           |          | 5,995                              | 243,268   | -0,063   |            |           |          |            |  |  |  |
| 6,728                              | 243,982  | 0,828      |           |          | 5,900      | 243,154   | -3,00    | 855+0,000   | 243,331   | 243,557                            | -0,226     | 5,900     | 243,331  | 0,00       |           |          |            |           |          | 5,995                              | 243,267   | -0,064   |            |           |          |            |  |  |  |
| 6,493                              | 243,689  | 0,593      |           |          | 5,900      | 243,096   | -3,00    | 855+17,886  | 243,273   | 243,150                            | 0,123      | 5,900     | 243,096  | -3,00      |           |          |            |           |          | 6,061                              | 242,989   | -0,107   |            |           |          |            |  |  |  |
| 6,472                              | 243,660  | 0,571      |           |          | 5,900      | 243,089   | -3,00    | 856+0,000   | 243,266   | 243,133                            | 0,133      | 5,900     | 243,089  | -3,00      |           |          |            |           |          | 6,078                              | 242,970   | -0,119   |            |           |          |            |  |  |  |
| 6,377                              | 243,501  | 0,476      |           |          | 5,900      | 243,025   | -3,00    | 857+0,000   | 243,202   | 242,935                            | 0,267      | 5,900     | 243,025  | -3,00      |           |          |            |           |          | 6,105                              | 242,888   | -0,137   |            |           |          |            |  |  |  |
| 6,388                              | 243,504  | 0,488      |           |          | 5,900      | 243,016   | -3,00    | 857+2,983   | 243,193   | 242,878                            | 0,315      | 5,900     | 243,016  | -3,00      |           |          |            |           |          | 6,143                              | 242,854   | -0,162   |            |           |          |            |  |  |  |
| 6,060                              | 242,855  | -0,106     |           |          | 5,900      | 242,961   | -3,00    | 858+0,000   | 243,138   | 242,706                            | 0,432      | 5,900     | 242,961  | -3,00      |           |          |            |           |          | 6,364                              | 242,652   | -0,309   |            |           |          |            |  |  |  |
| 6,808                              | 242,292  | -0,605     |           |          | 5,900      | 242,897   | -3,00    | 859+0,000   | 243,074   | 242,453                            | 0,621      | 5,900     | 242,897  | -3,00      |           |          |            |           |          | 6,091                              | 242,770   | -0,127   |            |           |          |            |  |  |  |
| 6,868                              | 242,187  | -0,646     |           |          | 5,900      | 242,833   | -3,00    | 860+0,000   | 243,010   | 242,227                            | 0,783      | 5,900     | 242,833  | -3,00      |           |          |            |           |          | 6,441                              | 242,472   | -0,361   |            |           |          |            |  |  |  |
| 7,408                              | 241,763  | -1,006     |           |          | 5,900      | 242,769   | -3,00    | 861+0,000   | 242,946   | 242,353                            | 0,593      | 5,900     | 242,769  | -3,00      |           |          |            |           |          | 6,567                              | 242,324   | -0,445   |            |           |          |            |  |  |  |
| 7,259                              | 241,799  | -0,905     |           |          | 5,900      | 242,704   | -3,00    | 862+0,000   | 242,881   | 242,231                            | 0,650      | 5,900     | 242,704  | -3,00      |           |          |            |           |          | 6,988                              | 241,979   | -0,725   |            |           |          |            |  |  |  |
| 7,377                              | 241,678  | -0,985     |           |          | 5,900      | 242,663   | -3,00    | 862+13,000  | 242,840   | 242,252                            | 0,588      | 5,900     | 242,663  | -3,00      |           |          |            |           |          | 7,222                              | 241,781   | -0,882   |            |           |          |            |  |  |  |
| 7,493                              | 241,584  | -1,062     |           |          | 5,900      | 242,646   | -3,00    | 863+0,000   | 242,823   | 242,156                            | 0,667      | 5,900     | 242,646  | -3,00      |           |          |            |           |          | 7,060                              | 241,873   | -0,773   |            |           |          |            |  |  |  |
| 7,699                              | 241,441  | -1,199     |           |          | 5,900      | 242,640   | -3,00    | 863+7,045   | 242,817   | 242,125                            | 0,692      | 5,900     | 242,640  | -3,00      |           |          |            |           |          | 6,945                              | 241,943   | -0,697   |            |           |          |            |  |  |  |
| 8,138                              | 241,167  | -1,492     |           |          | 5,900      | 242,659   | -3,00    | 864+0,000   | 242,836   | 242,145                            | 0,691      | 5,900     | 242,659  | -3,00      |           |          |            |           |          | 6,762                              | 242,085   | -0,574   |            |           |          |            |  |  |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |            |          |           |            |           |           |              |              |               |           |           |
|---------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|-----------|-----------|--------------|--------------|---------------|-----------|-----------|
| Eixo          |          |            |            |          |           |            |          |           |            |           |           |              |              |               |           |           |
| Offset        |          |            | Banqueta   |          |           |            | Bordo    |           |            | Estaca    |           | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo     |           |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | 865+0.000 | 866+0.000 | 867+0.000    | 868+0.000    | 869+0.000     | 870+0.000 | 871+0.000 |
|               |          |            |            |          |           |            |          |           |            |           |           |              |              |               |           |           |
| 8,472         | 241,050  | -1,714     |            |          | -3,00     | 5,900      | 242,764  | -3,00     | 5,900      | 242,941   | 242,263   | 0,678        | 0,678        | 0,678         | 0,678     | 0,678     |
| 8,108         | 241,488  | -1,473     |            |          | -3,00     | 5,900      | 242,961  | -3,00     | 5,900      | 242,961   | 242,961   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 6,722         | 242,700  | -0,548     |            |          | -3,00     | 5,900      | 243,248  | -3,00     | 5,900      | 243,248   | 243,248   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 6,945         | 242,930  | -0,697     |            |          | -3,00     | 5,900      | 243,627  | -3,00     | 5,900      | 243,627   | 243,627   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 7,671         | 242,916  | -1,181     |            |          | -3,00     | 5,900      | 244,097  | -3,00     | 5,900      | 244,097   | 244,097   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 6,456         | 244,289  | -0,370     |            |          | -3,00     | 5,900      | 244,659  | -3,00     | 5,900      | 244,659   | 244,659   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 7,267         | 244,401  | -0,911     |            |          | -3,00     | 5,900      | 245,312  | -3,00     | 5,900      | 245,312   | 245,312   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 6,555         | 245,620  | -0,437     |            |          | -3,00     | 5,900      | 246,057  | -3,00     | 5,900      | 246,057   | 246,057   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 6,570         | 247,562  | 0,669      |            |          | -3,00     | 5,900      | 246,893  | -3,00     | 5,900      | 246,893   | 246,893   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 6,856         | 248,441  | 0,956      |            |          | -3,00     | 5,900      | 247,485  | -3,00     | 5,900      | 247,485   | 247,485   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 7,134         | 249,048  | 1,234      |            |          | -3,00     | 5,900      | 247,814  | -3,00     | 5,900      | 247,814   | 247,814   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 7,339         | 249,488  | 1,439      |            |          | -3,00     | 5,900      | 248,049  | -3,00     | 5,900      | 248,049   | 248,049   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 7,952         | 250,759  | 2,052      |            |          | -3,00     | 5,900      | 248,707  | -3,00     | 5,900      | 248,707   | 248,707   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 8,148         | 251,683  | 2,248      |            |          | -3,00     | 5,900      | 249,435  | -3,00     | 5,900      | 249,435   | 249,435   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 8,585         | 252,676  | 2,685      |            |          | -3,00     | 5,900      | 249,991  | -3,00     | 5,900      | 249,991   | 249,991   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 9,305         | 253,782  | 3,405      |            |          | -3,00     | 5,900      | 250,377  | -3,00     | 5,900      | 250,377   | 250,377   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 10,104        | 254,796  | 4,204      |            |          | -3,00     | 5,900      | 250,592  | -3,00     | 5,900      | 250,592   | 250,592   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 10,334        | 255,054  | 4,433      |            |          | -3,00     | 5,900      | 250,621  | -3,00     | 5,900      | 250,621   | 250,621   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 10,334        | 255,055  | 4,434      |            |          | -3,00     | 5,900      | 250,621  | -3,00     | 5,900      | 250,621   | 250,621   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 11,035        | 255,776  | 5,135      |            |          | -3,00     | 5,900      | 250,641  | -3,00     | 5,900      | 250,641   | 250,641   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 11,289        | 256,025  | 5,389      |            |          | -3,00     | 5,900      | 250,636  | -3,00     | 5,900      | 250,636   | 250,636   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 11,862        | 256,471  | 5,962      |            |          | -3,00     | 5,900      | 250,509  | -3,00     | 5,900      | 250,509   | 250,509   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 11,579        | 255,891  | 5,679      |            |          | -3,00     | 5,900      | 250,212  | -3,00     | 5,900      | 250,212   | 250,212   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 11,440        | 255,651  | 5,540      |            |          | -3,00     | 5,900      | 250,111  | -3,00     | 5,900      | 250,111   | 250,111   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 10,538        | 254,430  | 4,638      |            |          | -3,00     | 5,900      | 249,792  | -3,00     | 5,900      | 249,792   | 249,792   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 9,076         | 252,542  | 3,176      |            |          | -3,00     | 5,900      | 249,366  | -3,00     | 5,900      | 249,366   | 249,366   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 6,807         | 249,848  | 0,907      |            |          | -3,00     | 5,900      | 248,941  | -3,00     | 5,900      | 248,941   | 248,941   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 8,725         | 246,632  | -1,883     |            |          | -3,00     | 5,900      | 248,515  | -3,00     | 5,900      | 248,515   | 248,515   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 14,305        | 242,486  | -5,604     |            |          | -3,00     | 5,900      | 248,090  | -3,00     | 5,900      | 248,090   | 248,090   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |
| 17,247        | 240,099  | -7,565     |            |          | -3,00     | 5,900      | 247,664  | -3,00     | 5,900      | 247,664   | 247,664   | 0,000        | 0,000        | 0,000         | 0,000     | 0,000     |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |          |           |            |          |           |            |          |           |              |              |               |            |          |           |            |          |              |            |          |           |            |          |            |        |  |  |
|----------------------------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|--------------|--------------|---------------|------------|----------|-----------|------------|----------|--------------|------------|----------|-----------|------------|----------|------------|--------|--|--|
| Rodovia : RO-010                 |          |            |            |          |           |            |          |           |            |          |           |              |              |               | Lote 01    |          |           |            |          |              |            |          |           |            |          |            |        |  |  |
| Lado Esquerdo                    |          |            |            |          |           |            |          |           |            | Eixo     |           |              |              |               |            |          |           |            |          | Lado Direito |            |          |           |            |          |            |        |  |  |
| Offset                           |          |            | Banqueta   |          |           |            | Bordo    |           |            | Estaca   |           | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo      |          |           | Banqueta   |          |              | Offset     |          |           |            |          |            |        |  |  |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m)   | Cota (m)     | Incl. (%)     | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%)    | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |        |  |  |
| 16,598                           | 240,107  | -7,131     |            |          | -3,00     | 5,900      | 247,238  | -3,00     | 889+0,000  | 247,415  | 241,983   | 5,432        | 5,900        | 247,238       | -3,00      | 5,900    | 246,813   | -3,00      | 5,900    | 246,813      | -3,00      | 5,900    | 246,813   | -3,00      | 15,455   | 240,869    | -6,369 |  |  |
| 11,508                           | 243,074  | -3,739     |            |          | -3,00     | 5,900      | 246,813  | -3,00     | 890+0,000  | 246,990  | 242,808   | 4,182        | 5,900        | 246,813       | -3,00      | 5,900    | 246,387   | -3,00      | 5,900    | 246,387      | -3,00      | 5,900    | 246,387   | -3,00      | 10,741   | 243,586    | -3,227 |  |  |
| 7,195                            | 245,524  | -0,863     |            |          | -3,00     | 5,900      | 246,387  | -3,00     | 891+0,000  | 246,564  | 244,701   | 1,863        | 5,900        | 246,387       | -3,00      | 5,900    | 245,962   | -3,00      | 5,900    | 245,962      | -3,00      | 5,900    | 245,962   | -3,00      | 8,814    | 244,445    | -1,942 |  |  |
| 7,213                            | 247,275  | 1,313      |            |          | -3,00     | 5,900      | 245,962  | -3,00     | 892+0,000  | 246,139  | 246,542   | -0,403       | 5,900        | 245,962       | -3,00      | 5,900    | 245,536   | -3,00      | 5,900    | 245,536      | -3,00      | 5,900    | 245,536   | -3,00      | 6,423    | 246,485    | 0,523  |  |  |
| 7,866                            | 247,502  | 1,966      |            |          | -3,00     | 5,900      | 245,536  | -3,00     | 893+0,000  | 245,713  | 247,485   | -1,772       | 5,900        | 245,536       | -3,00      | 5,900    | 245,111   | -3,00      | 5,900    | 245,111      | -3,00      | 5,900    | 245,111   | -3,00      | 8,899    | 248,535    | 2,999  |  |  |
| 9,120                            | 248,330  | 3,219      |            |          | -3,00     | 5,900      | 245,111  | -3,00     | 894+0,000  | 245,288  | 248,488   | -3,200       | 5,900        | 245,111       | -3,00      | 5,900    | 244,685   | -3,00      | 5,900    | 244,685      | -3,00      | 5,900    | 244,685   | -3,00      | 10,428   | 249,639    | 4,528  |  |  |
| 10,269                           | 249,054  | 4,369      |            |          | -3,00     | 5,900      | 244,685  | -3,00     | 895+0,000  | 244,862  | 248,678   | -3,816       | 5,900        | 244,685       | -3,00      | 5,900    | 244,260   | -3,00      | 5,900    | 244,260      | -3,00      | 5,900    | 244,260   | -3,00      | 11,392   | 250,177    | 5,492  |  |  |
| 10,093                           | 248,453  | 4,193      |            |          | -3,00     | 5,900      | 244,260  | -3,00     | 896+0,000  | 244,437  | 248,326   | -3,889       | 5,900        | 244,260       | -3,00      | 5,900    | 243,834   | -3,00      | 5,900    | 243,834      | -3,00      | 5,900    | 243,834   | -3,00      | 10,634   | 248,568    | 4,734  |  |  |
| 9,592                            | 247,526  | 3,692      |            |          | -3,00     | 5,900      | 243,834  | -3,00     | 897+0,000  | 244,011  | 247,402   | -3,391       | 5,900        | 243,834       | -3,00      | 5,900    | 243,408   | -3,00      | 5,900    | 243,408      | -3,00      | 5,900    | 243,408   | -3,00      | 10,028   | 247,536    | 4,128  |  |  |
| 8,165                            | 245,674  | 2,266      |            |          | -3,00     | 5,900      | 243,408  | -3,00     | 898+0,000  | 243,585  | 246,049   | -2,464       | 5,900        | 243,408       | -3,00      | 5,900    | 242,983   | -3,00      | 5,900    | 242,983      | -3,00      | 5,900    | 242,983   | -3,00      | 9,468    | 246,550    | 3,567  |  |  |
| 7,382                            | 244,465  | 1,482      |            |          | -3,00     | 5,900      | 242,983  | -3,00     | 899+0,000  | 243,160  | 244,545   | -1,385       | 5,900        | 242,983       | -3,00      | 5,900    | 242,557   | -3,00      | 5,900    | 242,557      | -3,00      | 5,900    | 242,557   | -3,00      | 8,314    | 244,971    | 2,414  |  |  |
| 6,444                            | 243,101  | 0,544      |            |          | -3,00     | 5,900      | 242,557  | -3,00     | 900+0,000  | 242,734  | 242,777   | -0,043       | 5,900        | 242,557       | -3,00      | 5,900    | 242,132   | -3,00      | 5,900    | 242,132      | -3,00      | 5,900    | 242,132   | -3,00      | 6,292    | 242,524    | 0,392  |  |  |
| 8,059                            | 240,693  | -1,439     |            |          | -3,00     | 5,900      | 242,132  | -3,00     | 901+0,000  | 242,309  | 240,636   | 1,673        | 5,900        | 242,132       | -3,00      | 5,900    | 241,706   | -3,00      | 5,900    | 241,706      | -3,00      | 5,900    | 241,706   | -3,00      | 10,546   | 238,609    | -3,097 |  |  |
| 9,894                            | 239,043  | -2,663     |            |          | -3,00     | 5,900      | 241,706  | -3,00     | 902+0,000  | 241,883  | 238,835   | 3,048        | 5,900        | 241,706       | -3,00      | 5,900    | 241,281   | -3,00      | 5,900    | 241,281      | -3,00      | 5,900    | 241,281   | -3,00      | 9,344    | 238,985    | -2,296 |  |  |
| 9,891                            | 238,620  | -2,661     |            |          | -3,00     | 5,900      | 241,281  | -3,00     | 903+0,000  | 241,458  | 238,406   | 3,052        | 5,900        | 241,281       | -3,00      | 5,900    | 240,855   | -3,00      | 5,900    | 240,855      | -3,00      | 5,900    | 240,855   | -3,00      | 8,213    | 239,313    | -1,542 |  |  |
| 9,142                            | 238,694  | -2,161     |            |          | -3,00     | 5,900      | 240,855  | -3,00     | 904+0,000  | 241,032  | 237,750   | 3,282        | 5,900        | 240,855       | -3,00      | 5,900    | 240,430   | -3,00      | 5,900    | 240,430      | -3,00      | 5,900    | 240,430   | -3,00      | 7,974    | 239,047    | -1,383 |  |  |
| 8,518                            | 238,684  | -1,746     |            |          | -3,00     | 5,900      | 240,430  | -3,00     | 905+0,000  | 240,607  | 237,931   | 2,676        | 5,900        | 240,430       | -3,00      | 5,900    | 240,004   | -3,00      | 5,900    | 240,004      | -3,00      | 5,900    | 240,004   | -3,00      | 5,996    | 239,940    | -0,064 |  |  |
| 7,703                            | 238,802  | -1,202     |            |          | -3,00     | 5,900      | 240,004  | -3,00     | 906+0,000  | 240,181  | 238,965   | 1,216        | 5,900        | 240,004       | -3,00      | 5,900    | 239,578   | -3,00      | 5,900    | 239,578      | -3,00      | 5,900    | 239,578   | -3,00      | 6,572    | 240,251    | 0,673  |  |  |
| 5,968                            | 239,646  | 0,068      |            |          | -3,00     | 5,900      | 239,578  | -3,00     | 907+0,000  | 239,755  | 239,715   | 0,040        | 5,900        | 239,578       | -3,00      | 5,900    | 239,153   | -3,00      | 5,900    | 239,153      | -3,00      | 5,900    | 239,153   | -3,00      | 7,858    | 241,111    | 1,958  |  |  |
| 7,761                            | 241,013  | 1,860      |            |          | -3,00     | 5,900      | 239,153  | -3,00     | 908+0,000  | 239,330  | 240,644   | -1,314       | 5,900        | 239,153       | -3,00      | 5,900    | 238,727   | -3,00      | 5,900    | 238,727      | -3,00      | 5,900    | 238,727   | -3,00      | 10,063   | 242,890    | 4,163  |  |  |
| 8,641                            | 241,468  | 2,741      |            |          | -3,00     | 5,900      | 238,727  | -3,00     | 909+0,000  | 238,904  | 241,463   | -2,559       | 5,900        | 238,727       | -3,00      | 5,900    | 238,302   | -3,00      | 5,900    | 238,302      | -3,00      | 5,900    | 238,302   | -3,00      | 10,031   | 242,433    | 4,131  |  |  |
| 9,359                            | 241,761  | 3,459      |            |          | -3,00     | 5,900      | 238,302  | -3,00     | 910+0,000  | 238,479  | 241,730   | -3,251       | 5,900        | 238,302       | -3,00      | 5,900    | 237,876   | -3,00      | 5,900    | 237,876      | -3,00      | 5,900    | 237,876   | -3,00      | 10,326   | 242,302    | 4,426  |  |  |
| 10,388                           | 242,364  | 4,488      |            |          | -3,00     | 5,900      | 237,876  | -3,00     | 911+0,000  | 238,053  | 241,484   | -3,431       | 5,900        | 237,876       | -3,00      | 5,900    | 237,451   | -3,00      | 5,900    | 237,451      | -3,00      | 5,900    | 237,451   | -3,00      | 9,232    | 240,783    | 3,332  |  |  |
| 9,276                            | 240,827  | 3,376      |            |          | -3,00     | 5,900      | 237,451  | -3,00     | 912+0,000  | 237,628  | 240,940   | -3,312       | 5,900        | 237,451       | -3,00      | 5,900    | 237,025   | -3,00      | 5,900    | 237,025      | -3,00      | 5,900    | 237,025   | -3,00      | 9,463    | 240,589    | 3,564  |  |  |
| 9,601                            | 240,727  | 3,702      |            |          | -3,00     | 5,900      | 237,025  | -3,00     | 913+0,000  | 237,202  | 240,032   | -2,830       | 5,900        | 237,025       | -3,00      | 5,900    | 236,600   | -3,00      | 5,900    | 236,600      | -3,00      | 5,900    | 236,600   | -3,00      | 9,459    | 240,159    | 3,559  |  |  |
| 8,677                            | 239,376  | 2,776      |            |          | -3,00     | 5,900      | 236,600  | -3,00     | 914+0,000  | 236,777  | 239,483   | -2,706       | 5,900        | 236,600       | -3,00      | 5,900    | 236,174   | -3,00      | 5,900    | 236,174      | -3,00      | 5,900    | 236,174   | -3,00      | 9,262    | 239,536    | 3,362  |  |  |
| 8,853                            | 239,127  | 2,953      |            |          | -3,00     | 5,900      | 236,174  | -3,00     | 915+0,000  | 236,351  | 238,820   | -2,469       | 5,900        | 236,174       | -3,00      | 5,900    | 235,748   | -3,00      | 5,900    | 235,748      | -3,00      | 5,900    | 235,748   | -3,00      | 9,568    | 239,417    | 3,669  |  |  |
| 9,000                            | 238,849  | 3,101      |            |          | -3,00     | 5,900      | 235,748  | -3,00     | 916+0,000  | 235,925  | 238,177   | -2,252       | 5,900        | 235,748       | -3,00      | 5,900    | 235,323   | -3,00      | 5,900    | 235,323      | -3,00      | 5,900    | 235,323   | -3,00      | 9,605    | 239,028    | 3,705  |  |  |
| 8,156                            | 237,579  | 2,256      |            |          | -3,00     | 5,900      | 235,323  | -3,00     | 917+0,000  | 235,500  | 237,320   | -1,820       | 5,900        | 235,323       | -3,00      | 5,900    | 235,174   | -3,00      | 5,900    | 235,174      | -3,00      | 5,900    | 235,174   | -3,00      | 9,256    | 238,530    | 3,356  |  |  |
| 7,902                            | 237,176  | 2,002      |            |          | -3,00     | 5,900      | 235,174  | -3,00     | 917+0,000  | 235,351  | 237,006   | -1,655       | 5,900        | 235,174       | -3,00      | 5,900    | 235,174   | -3,00      | 5,900    | 235,174      | -3,00      | 5,900    | 235,174   | -3,00      | 9,256    | 238,530    | 3,356  |  |  |



| Nota de Serviço de Terraplenagem |          |            |           |            |            |              |              |               |           |              |          |           |            |          |            |          |           |            |          |
|----------------------------------|----------|------------|-----------|------------|------------|--------------|--------------|---------------|-----------|--------------|----------|-----------|------------|----------|------------|----------|-----------|------------|----------|
| Rodovia : RO-010 Lote 01         |          |            |           |            |            |              |              |               |           |              |          |           |            |          |            |          |           |            |          |
| Lado Esquerdo                    |          |            |           |            |            |              |              |               |           | Lado Direito |          |           |            |          |            |          |           |            |          |
| Offset                           |          |            |           |            | Eixo       |              |              |               |           | Bordo        |          |           |            |          | Banqueta   |          |           |            |          |
| Afast. (m)                       | Cota (m) | Altura (m) | Incl. (%) | Afast. (m) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Incl. (%) | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) |
| 6,011                            | 242,878  | 0,111      | -3,00     | 5,900      | 944+0,000  | 242,944      | 243,177      | -0,233        | -3,00     | 5,900        | 242,767  | -3,00     | 5,900      | 242,767  | 5,900      | 242,767  | -3,00     | 6,838      | 243,705  |
| 6,054                            | 243,179  | -0,102     | -3,00     | 5,900      | 945+0,000  | 243,458      | 243,386      | 0,072         | -3,00     | 5,900        | 243,281  | -3,00     | 5,900      | 243,281  | 5,900      | 243,281  | -3,00     | 6,646      | 242,784  |
| 6,476                            | 243,411  | -0,384     | -3,00     | 5,900      | 946+0,000  | 243,972      | 243,466      | 0,506         | -3,00     | 5,900        | 243,795  | -3,00     | 5,900      | 243,795  | 5,900      | 243,795  | -3,00     | 6,763      | 243,220  |
| 6,753                            | 243,741  | -0,568     | -3,00     | 5,900      | 947+0,000  | 244,486      | 243,669      | 0,817         | -3,00     | 5,900        | 244,309  | -3,00     | 5,900      | 244,309  | 5,900      | 244,309  | -3,00     | 6,933      | 243,620  |
| 6,757                            | 244,252  | -0,571     | -3,00     | 5,900      | 948+0,000  | 245,000      | 243,680      | 1,320         | -3,00     | 5,900        | 244,823  | -3,00     | 5,900      | 244,823  | 5,900      | 244,823  | -3,00     | 6,817      | 244,212  |
| 6,798                            | 244,739  | -0,598     | -3,00     | 5,900      | 949+0,000  | 245,514      | 243,915      | 1,599         | -3,00     | 5,900        | 245,337  | -3,00     | 5,900      | 245,337  | 5,900      | 245,337  | -3,00     | 6,500      | 244,938  |
| 6,897                            | 245,187  | -0,664     | -3,00     | 5,900      | 950+0,000  | 246,028      | 244,109      | 1,919         | -3,00     | 5,900        | 245,851  | -3,00     | 5,900      | 245,851  | 5,900      | 245,851  | -3,00     | 6,655      | 245,348  |
| 6,862                            | 245,725  | -0,641     | -3,00     | 5,900      | 951+0,000  | 246,543      | 244,704      | 1,839         | -3,00     | 5,900        | 246,366  | -3,00     | 5,900      | 246,366  | 5,900      | 246,366  | -3,00     | 6,039      | 246,273  |
| 7,474                            | 245,830  | -1,050     | -3,00     | 5,900      | 952+0,000  | 247,057      | 245,115      | 1,942         | -3,00     | 5,900        | 246,880  | -3,00     | 5,900      | 246,880  | 5,900      | 246,880  | -3,00     | 6,096      | 246,749  |
| 7,314                            | 246,451  | -0,943     | -3,00     | 5,900      | 953+0,000  | 247,571      | 245,775      | 1,796         | -3,00     | 5,900        | 247,394  | -3,00     | 5,900      | 247,394  | 5,900      | 247,394  | -3,00     | 7,361      | 246,420  |
| 7,161                            | 247,067  | -0,841     | -3,00     | 5,900      | 954+0,000  | 248,085      | 246,526      | 1,559         | -3,00     | 5,900        | 247,908  | -3,00     | 5,900      | 247,908  | 5,900      | 247,908  | -3,00     | 7,028      | 247,156  |
| 6,869                            | 247,776  | -0,646     | -3,00     | 5,900      | 955+0,000  | 248,599      | 246,972      | 1,627         | -3,00     | 5,900        | 248,422  | -3,00     | 5,900      | 248,422  | 5,900      | 248,422  | -3,00     | 6,711      | 247,881  |
| 6,524                            | 248,520  | -0,416     | -3,00     | 5,900      | 956+0,000  | 249,113      | 248,089      | 1,024         | -3,00     | 5,900        | 248,936  | -3,00     | 5,900      | 248,936  | 5,900      | 248,936  | -3,00     | 6,053      | 248,834  |
| 6,860                            | 248,810  | -0,640     | -3,00     | 5,900      | 957+0,000  | 249,627      | 248,543      | 1,084         | -3,00     | 5,900        | 249,450  | -3,00     | 5,900      | 249,450  | 5,900      | 249,450  | -3,00     | 6,055      | 249,605  |
| 6,782                            | 249,377  | -0,587     | -3,00     | 5,900      | 958+0,000  | 250,141      | 249,386      | 0,755         | -3,00     | 5,900        | 249,964  | -3,00     | 5,900      | 249,964  | 5,900      | 249,964  | -3,00     | 6,294      | 250,359  |
| 6,345                            | 250,053  | -0,297     | -3,00     | 5,900      | 958+15,000 | 250,527      | 250,096      | 0,431         | -3,00     | 5,900        | 250,350  | -3,00     | 5,900      | 250,350  | 5,900      | 250,350  | -3,00     | 6,759      | 251,209  |
| 6,111                            | 250,334  | -0,140     | -3,00     | 5,900      | 959+0,000  | 250,651      | 250,485      | 0,166         | -3,00     | 5,900        | 250,474  | -3,00     | 5,900      | 250,474  | 5,900      | 250,474  | -3,00     | 6,968      | 251,542  |
| 6,730                            | 251,720  | 0,830      | -3,00     | 5,900      | 960+0,000  | 251,067      | 251,885      | -0,818        | -3,00     | 5,900        | 250,890  | -3,00     | 5,900      | 250,890  | 5,900      | 250,890  | -3,00     | 7,760      | 252,750  |
| 7,980                            | 253,255  | 2,080      | -3,00     | 5,900      | 961+0,000  | 251,352      | 253,299      | -1,947        | -3,00     | 5,900        | 251,175  | -3,00     | 5,900      | 251,175  | 5,900      | 251,175  | -3,00     | 8,364      | 253,640  |
| 9,647                            | 255,077  | 3,747      | -3,00     | 5,900      | 962+0,000  | 251,507      | 254,373      | -2,866        | -3,00     | 5,900        | 251,330  | -3,00     | 5,900      | 251,330  | 5,900      | 251,330  | -3,00     | 9,086      | 254,516  |
| 10,927                           | 256,387  | 5,027      | -3,00     | 5,900      | 962+13,615 | 251,537      | 255,037      | -3,500        | -3,00     | 5,900        | 251,360  | -3,00     | 5,900      | 251,360  | 5,900      | 251,360  | -3,00     | 9,800      | 255,260  |
| 11,559                           | 257,013  | 5,659      | -3,00     | 5,900      | 963+0,000  | 251,531      | 255,529      | -3,998        | -3,00     | 5,900        | 251,354  | -3,00     | 5,900      | 251,354  | 5,900      | 251,354  | -3,00     | 10,237     | 255,690  |
| 12,345                           | 257,692  | 6,446      | -3,00     | 5,900      | 964+0,000  | 251,423      | 256,825      | -5,402        | -3,00     | 5,900        | 251,246  | -3,00     | 5,900      | 251,246  | 5,900      | 251,246  | -3,00     | 11,717     | 257,064  |
| 12,242                           | 257,350  | 6,342      | -3,00     | 5,900      | 965+0,000  | 251,185      | 257,154      | -5,969        | -3,00     | 5,900        | 251,008  | -3,00     | 5,900      | 251,008  | 5,900      | 251,008  | -3,00     | 12,646     | 257,754  |
| 12,428                           | 257,168  | 6,528      | -3,00     | 5,900      | 966+0,000  | 250,817      | 256,923      | -6,106        | -3,00     | 5,900        | 250,640  | -3,00     | 5,900      | 250,640  | 5,900      | 250,640  | -3,00     | 12,829     | 257,569  |
| 11,856                           | 256,097  | 5,957      | -3,00     | 5,900      | 967+0,000  | 250,317      | 255,856      | -5,539        | -3,00     | 5,900        | 250,140  | -3,00     | 5,900      | 250,140  | 5,900      | 250,140  | -3,00     | 12,453     | 256,693  |
| 11,590                           | 255,200  | 5,690      | -3,00     | 5,900      | 968+0,000  | 249,687      | 254,182      | -4,495        | -3,00     | 5,900        | 249,510  | -3,00     | 5,900      | 249,510  | 5,900      | 249,510  | -3,00     | 12,129     | 255,739  |
| 11,088                           | 253,937  | 5,188      | -3,00     | 5,900      | 969+0,000  | 248,926      | 252,395      | -3,469        | -3,00     | 5,900        | 248,749  | -3,00     | 5,900      | 248,749  | 5,900      | 248,749  | -3,00     | 11,610     | 254,459  |
| 9,750                            | 251,707  | 3,850      | -3,00     | 5,900      | 970+0,000  | 248,034      | 250,661      | -2,627        | -3,00     | 5,900        | 247,857  | -3,00     | 5,900      | 247,857  | 5,900      | 247,857  | -3,00     | 11,008     | 252,965  |
| 7,508                            | 248,711  | 1,609      | -3,00     | 5,900      | 970+15,000 | 247,279      | 249,555      | -2,276        | -3,00     | 5,900        | 247,102  | -3,00     | 5,900      | 247,102  | 5,900      | 247,102  | -3,00     | 10,169     | 251,372  |

## Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |          |          |            |          |          |            |              |              |               |            |          |          |            |          |          |            |          |            |         |        |
|----------------------------------|----------|------------|------------|----------|----------|------------|----------|----------|------------|--------------|--------------|---------------|------------|----------|----------|------------|----------|----------|------------|----------|------------|---------|--------|
| Rodovia : RO-010    Lote 01      |          |            |            |          |          |            |          |          |            |              |              |               |            |          |          |            |          |          |            |          |            |         |        |
| Lado Esquerdo                    |          |            |            |          |          |            |          |          |            | Lado Direito |              |               |            |          |          |            |          |          |            |          |            |         |        |
| Offset                           |          |            | Banqueta   |          |          |            | Bordo    |          |            | Eixo         |              |               | Bordo      |          |          |            | Banqueta |          |            |          | Offset     |         |        |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Altura (m) |         |        |
|                                  |          |            |            |          |          |            |          |          |            |              |              |               |            |          |          |            |          |          |            |          |            |         |        |
| 7,353                            | 248,292  | 1,454      |            |          |          | 5,900      | 246,838  | -3,00    | 971+0,000  | 247,015      | 248,655      | -1,640        | 5,900      | 246,838  | -3,00    |            |          |          |            |          | 10,118     | 251,056 | 4,218  |
| 6,469                            | 246,352  | 0,569      |            |          |          | 5,900      | 245,783  | -3,00    | 972+0,000  | 245,960      | 246,145      | -0,185        | 5,900      | 245,783  | -3,00    |            |          |          |            |          | 9,275      | 249,158 | 3,375  |
| 6,523                            | 244,312  | -0,416     |            |          |          | 5,900      | 244,728  | -3,00    | 973+0,000  | 244,905      | 244,595      | 0,310         | 5,900      | 244,728  | -3,00    |            |          |          |            |          | 8,084      | 246,912 | 2,184  |
| 7,123                            | 242,857  | -0,815     |            |          |          | 5,900      | 243,672  | -3,00    | 974+0,000  | 243,849      | 242,944      | 0,905         | 5,900      | 243,672  | -3,00    |            |          |          |            |          | 7,062      | 244,834 | 1,162  |
| 7,776                            | 241,366  | -1,251     |            |          |          | 5,900      | 242,617  | -3,00    | 975+0,000  | 242,794      | 241,570      | 1,224         | 5,900      | 242,617  | -3,00    |            |          |          |            |          | 5,991      | 242,556 | -0,061 |
| 7,834                            | 240,272  | -1,290     |            |          |          | 5,900      | 241,562  | -3,00    | 976+0,000  | 241,739      | 240,352      | 1,387         | 5,900      | 241,562  | -3,00    |            |          |          |            |          | 6,328      | 241,276 | -0,286 |
| 7,512                            | 239,432  | -1,074     |            |          |          | 5,900      | 240,506  | -3,00    | 977+0,000  | 240,683      | 239,565      | 1,118         | 5,900      | 240,506  | -3,00    |            |          |          |            |          | 5,981      | 240,452 | -0,054 |
| 6,906                            | 238,780  | -0,671     |            |          |          | 5,900      | 239,451  | -3,00    | 978+0,000  | 239,628      | 238,906      | 0,722         | 5,900      | 239,451  | -3,00    |            |          |          |            |          | 6,324      | 239,875 | 0,424  |
| 6,835                            | 237,772  | -0,623     |            |          |          | 5,900      | 238,395  | -3,00    | 979+0,000  | 238,572      | 237,972      | 0,600         | 5,900      | 238,395  | -3,00    |            |          |          |            |          | 6,424      | 238,919 | 0,524  |
| 6,557                            | 236,902  | -0,438     |            |          |          | 5,900      | 237,340  | -3,00    | 980+0,000  | 237,517      | 236,900      | 0,617         | 5,900      | 237,340  | -3,00    |            |          |          |            |          | 6,158      | 237,598 | 0,258  |
| 6,183                            | 236,096  | -0,189     |            |          |          | 5,900      | 236,285  | -3,00    | 981+0,000  | 236,462      | 235,779      | 0,683         | 5,900      | 236,285  | -3,00    |            |          |          |            |          | 5,909      | 236,279 | -0,006 |
| 6,124                            | 235,898  | -0,150     |            |          |          | 5,900      | 236,048  | -3,00    | 981+4,495  | 236,225      | 235,681      | 0,544         | 5,900      | 236,048  | -3,00    |            |          |          |            |          | 6,120      | 235,901 | -0,147 |
| 6,344                            | 234,933  | -0,296     |            |          |          | 5,900      | 235,229  | -3,00    | 982+0,000  | 235,406      | 234,820      | 0,586         | 5,900      | 235,385  | -0,36    |            |          |          |            |          | 6,963      | 234,676 | -0,709 |
| 6,457                            | 234,745  | -0,371     |            |          |          | 5,900      | 235,116  | -3,00    | 982+2,142  | 235,293      | 234,676      | 0,617         | 5,900      | 235,293  | 0,00     |            |          |          |            |          | 7,044      | 234,531 | -0,762 |
| 6,458                            | 234,322  | -0,372     |            |          |          | 5,900      | 234,694  | -3,00    | 982+10,142 | 234,871      | 234,138      | 0,733         | 5,900      | 234,951  | 1,36     |            |          |          |            |          | 7,343      | 233,989 | -0,962 |
| 6,383                            | 233,863  | -0,322     |            |          |          | 5,900      | 234,185  | -3,00    | 982+19,789 | 234,362      | 233,325      | 1,037         | 5,900      | 234,539  | 3,00     |            |          |          |            |          | 7,061      | 233,765 | -0,774 |
| 6,378                            | 233,853  | -0,319     |            |          |          | 5,900      | 234,172  | -3,04    | 983+0,000  | 234,351      | 233,306      | 1,045         | 5,900      | 234,530  | 3,04     |            |          |          |            |          | 7,059      | 233,758 | -0,772 |
| 6,324                            | 233,755  | -0,282     |            |          |          | 5,900      | 234,037  | -3,40    | 983+2,142  | 234,238      | 233,124      | 1,114         | 5,900      | 234,439  | 3,40     |            |          |          |            |          | 7,038      | 233,680 | -0,759 |
| 6,563                            | 232,653  | -0,442     |            |          |          | 5,900      | 233,095  | -3,40    | 984+0,000  | 233,296      | 231,560      | 1,736         | 5,900      | 233,497  | 3,40     |            |          |          |            |          | 7,678      | 232,311 | -1,186 |
| INICIO DA INTERSEÇÃO 02          |          |            |            |          |          |            |          |          |            |              |              |               |            |          |          |            |          |          |            |          |            |         |        |
| 7,675                            | 230,856  | -1,183     |            |          |          | 5,900      | 232,039  | -3,40    | 985+0,000  | 232,240      | 231,281      | 0,959         | 5,900      | 232,441  | 3,40     |            |          |          |            |          | 9,019      | 230,361 | -2,080 |
| 8,621                            | 229,170  | -1,814     |            |          |          | 5,900      | 230,984  | -3,40    | 986+0,000  | 231,185      | 230,099      | 1,086         | 5,900      | 231,386  | 3,40     |            |          |          |            |          | 8,108      | 229,914 | -1,472 |
| 8,604                            | 229,076  | -1,802     |            |          |          | 5,900      | 230,878  | -3,40    | 986+2,000  | 231,079      | 230,041      | 1,038         | 5,900      | 231,280  | 3,40     |            |          |          |            |          | 8,103      | 229,811 | -1,469 |
| 8,651                            | 228,155  | -1,834     |            |          |          | 5,900      | 229,989  | -3,40    | 987+0,000  | 230,190      | 228,918      | 1,272         | 5,900      | 230,391  | 3,40     |            |          |          |            |          | 7,579      | 229,271 | -1,120 |
| 6,459                            | 228,769  | -0,372     |            |          |          | 5,900      | 229,141  | -3,40    | 988+0,000  | 229,342      | 228,022      | 1,320         | 5,900      | 229,543  | 3,40     |            |          |          |            |          | 6,890      | 228,883 | -0,660 |
| 5,991                            | 228,533  | 0,091      |            |          |          | 5,900      | 228,442  | -3,40    | 989+0,000  | 228,643      | 227,647      | 0,996         | 5,900      | 228,844  | 3,40     |            |          |          |            |          | 7,245      | 227,947 | -0,897 |
| 6,531                            | 228,520  | 0,631      |            |          |          | 5,900      | 227,889  | -3,40    | 990+0,000  | 228,090      | 227,899      | 0,191         | 5,900      | 228,291  | 3,40     |            |          |          |            |          | 6,656      | 227,787 | -0,504 |
| 6,626                            | 228,417  | 0,727      |            |          |          | 5,900      | 227,690  | -3,40    | 990+8,544  | 227,891      | 228,103      | -0,212        | 5,900      | 228,092  | 3,40     |            |          |          |            |          | 6,444      | 227,730 | -0,362 |
| 6,383                            | 227,134  | -0,322     |            |          |          | 5,900      | 227,456  | -3,40    | 991+0,000  | 227,657      | 228,089      | -0,432        | 5,900      | 227,858  | 3,40     |            |          |          |            |          | 6,502      | 227,456 | -0,402 |
| 6,340                            | 226,843  | -0,294     |            |          |          | 5,900      | 227,137  | -3,40    | 992+0,000  | 227,338      | 226,845      | 0,493         | 5,900      | 227,539  | 3,40     |            |          |          |            |          | 6,162      | 227,364 | -0,175 |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem   |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
|------------------------------------|----------|------------|--|------------|----------|-----------|--|------------|----------|-----------|--------|--------------|--------------|--------------|---------------|------------|----------|-----------|------------|----------|-----------|--------|------------|----------|------------|
| Rodovia : RO-010    Lote 01        |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| Lado Esquerdo                      |          |            |  |            |          |           |  |            |          |           |        | Lado Direito |              |              |               |            |          |           |            |          |           |        |            |          |            |
| Offset                             |          |            |  | Banqueta   |          |           |  | Bordo      |          |           |        | Eixo         |              | Bordo        |               |            |          | Banqueta  |            |          |           | Offset |            |          |            |
| Afast. (m)                         | Cota (m) | Altura (m) |  | Afast. (m) | Cota (m) | Incl. (%) |  | Afast. (m) | Cota (m) | Incl. (%) |        | Estaca       | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) |        | Afast. (m) | Cota (m) | Altura (m) |
| 8,036                              | 225,507  | -1,424     |  | 5,900      | 226,931  | -3,40     |  | 993+0,000  | 227,132  | 226,422   | 0,710  | 5,900        | 227,333      | 3,40         |               | 7,102      | 226,531  | -0,802    |            |          |           |        | 7,794      | 226,001  | -1,263     |
| 7,765                              | 225,620  | -1,242     |  | 5,900      | 226,862  | -3,40     |  | 993+12,000 | 227,063  | 226,262   | 0,801  | 5,900        | 227,264      | 3,40         |               | 6,667      | 226,720  | -0,512    |            |          |           |        | 6,555      | 226,714  | -0,437     |
| 7,534                              | 225,741  | -1,089     |  | 5,900      | 226,830  | -3,40     |  | 994+0,000  | 227,031  | 226,131   | 0,900  | 5,900        | 227,232      | 3,40         |               | 6,667      | 226,720  | -0,512    |            |          |           |        | 6,555      | 226,714  | -0,437     |
| 7,551                              | 225,649  | -1,100     |  | 5,900      | 226,749  | -3,40     |  | 995+0,000  | 226,950  | 226,045   | 0,905  | 5,900        | 227,151      | 3,40         |               | 6,555      | 226,714  | -0,437    |            |          |           |        | 6,555      | 226,714  | -0,437     |
| 7,920                              | 225,323  | -1,346     |  | 5,900      | 226,669  | -3,40     |  | 996+0,000  | 226,870  | 226,217   | 0,653  | 5,900        | 227,071      | 3,40         |               | 6,605      | 226,600  | -0,471    |            |          |           |        | 6,605      | 226,600  | -0,471     |
| FINAL DA INTERSEÇÃO 02             |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| INTERSEÇÃO 02 - RAMO 01            |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| Sobreposição com a pista principal |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| 4,704                              | 231,091  | -1,202     |  | 2,900      | 232,293  | 3,00      |  | 2+10,000   | 232,206  | 230,580   | 1,626  | 5,900        | 232,029      | -3,00        |               | 6,342      | 231,735  | -0,294    |            |          |           |        | 5,991      | 231,352  | -0,060     |
| 4,666                              | 230,499  | -1,177     |  | 2,900      | 231,676  | 3,00      |  | 3+40,000   | 231,589  | 230,215   | 1,374  | 5,900        | 231,412      | -3,00        |               | 5,991      | 231,352  | -0,060    |            |          |           |        | 6,476      | 229,616  | -0,383     |
| 4,037                              | 229,505  | -0,758     |  | 2,900      | 230,263  | 3,00      |  | 4+40,000   | 230,176  | 229,786   | 0,390  | 5,900        | 229,999      | -3,00        |               | 6,476      | 229,616  | -0,383    |            |          |           |        | 7,060      | 230,908  | 1,160      |
| 3,768                              | 229,433  | -0,579     |  | 2,900      | 230,012  | 3,00      |  | 4+3,280    | 229,925  | 229,679   | 0,246  | 5,900        | 229,748      | -3,00        |               | 6,847      | 229,665  | 0,947     |            |          |           |        | 6,670      | 228,912  | 0,769      |
| 3,173                              | 229,255  | 0,273      |  | 2,900      | 228,982  | 3,00      |  | 5+40,000   | 228,895  | 229,106   | -0,211 | 5,900        | 228,718      | -3,00        |               | 6,847      | 229,665  | 0,947     |            |          |           |        | 6,670      | 228,912  | 0,769      |
| 3,223                              | 228,730  | 0,323      |  | 2,900      | 228,407  | 3,00      |  | 6+40,000   | 228,320  | 227,999   | 0,321  | 5,900        | 228,143      | -3,00        |               | 6,670      | 228,912  | 0,769     |            |          |           |        | 6,670      | 228,912  | 0,769      |
| Sobreposição com a Rótula          |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| Sobreposição com a Rótula          |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| INTERSEÇÃO 02 - RAMO 02            |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| Sobreposição com Ramo 01           |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| 3,585                              | 228,788  | -0,457     |  | 2,900      | 229,245  | 3,00      |  | 0+40,000   | 229,158  | 228,911   | 0,247  | 5,900        | 228,981      | -3,00        |               | 6,039      | 229,119  | 0,138     |            |          |           |        | 6,114      | 229,178  | 0,214      |
| 3,382                              | 228,906  | -0,322     |  | 2,900      | 229,228  | 3,00      |  | 0+18,316   | 229,141  | 229,006   | 0,135  | 5,900        | 228,964      | -3,00        |               | 6,114      | 229,178  | 0,214     |            |          |           |        | 6,095      | 229,163  | 0,195      |
| 3,288                              | 228,974  | -0,258     |  | 2,900      | 229,232  | 3,00      |  | 0+20,000   | 229,145  | 229,060   | 0,085  | 5,900        | 228,968      | -3,00        |               | 6,095      | 229,163  | 0,195     |            |          |           |        | 6,045      | 229,142  | 0,145      |
| 3,268                              | 229,015  | -0,246     |  | 2,900      | 229,261  | 3,00      |  | 1+2,938    | 229,174  | 229,059   | 0,115  | 5,900        | 228,997      | -3,00        |               | 6,045      | 229,142  | 0,145     |            |          |           |        | 5,955      | 229,114  | 0,054      |
| 3,480                              | 228,937  | -0,387     |  | 2,900      | 229,324  | 3,00      |  | 1+6,200    | 229,237  | 229,002   | 0,235  | 5,900        | 229,060      | -3,00        |               | 5,955      | 229,114  | 0,054     |            |          |           |        | 5,965      | 229,352  | -0,043     |
| 4,542                              | 228,564  | -1,095     |  | 2,900      | 229,659  | 3,00      |  | 1+20,000   | 229,572  | 228,905   | 0,667  | 5,900        | 229,395      | -3,00        |               | 5,965      | 229,352  | -0,043    |            |          |           |        | 5,939      | 229,577  | 0,039      |
| 4,239                              | 228,910  | -0,892     |  | 2,900      | 229,802  | 3,00      |  | 2+5,875    | 229,715  | 229,440   | 0,275  | 5,900        | 229,538      | -3,00        |               | 5,939      | 229,577  | 0,039     |            |          |           |        | 7,447      | 228,507  | -1,031     |
| INTERSEÇÃO 02 - RAMO 03            |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| Sobreposição com Ramo 01           |          |            |  |            |          |           |  |            |          |           |        |              |              |              |               |            |          |           |            |          |           |        |            |          |            |
| 3,155                              | 229,632  | -0,170     |  | 2,900      | 229,802  | 3,00      |  | 0+40,000   | 229,715  | 229,440   | 0,275  | 5,900        | 229,538      | -3,00        |               | 7,447      | 228,507  | -1,031    |            |          |           |        | 7,970      | 227,671  | -1,380     |
| 3,582                              | 228,860  | -0,455     |  | 2,900      | 229,315  | 3,00      |  | 1+40,000   | 229,228  | 228,563   | 0,665  | 5,900        | 229,051      | -3,00        |               | 7,970      | 227,671  | -1,380    |            |          |           |        | 7,970      | 227,671  | -1,380     |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo                      |          |            |            |           |            |          |           |            |          | Lado Direito                       |              |              |               |            |          |           |            |          |           |                                    |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
|------------------------------------|----------|------------|------------|-----------|------------|----------|-----------|------------|----------|------------------------------------|--------------|--------------|---------------|------------|----------|-----------|------------|----------|-----------|------------------------------------|----------|-----------|------------|----------|------------|--|--|--|--|--|--|--|--|--|
| Offset                             |          |            |            |           | Banqueta   |          |           |            |          | Eixo                               |              |              |               |            | Bordo    |           |            |          |           | Banqueta                           |          |           |            |          | Offset     |  |  |  |  |  |  |  |  |  |
| Afast. (m)                         | Cota (m) | Altura (m) | Afast. (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Estaca                             | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m)                         | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |  |  |  |  |  |  |  |  |  |
| 3,392                              | 228,500  | -0,328     |            | 3,00      | 2,900      | 228,828  | 3,00      | 2,900      | 228,828  | 2+0,000                            | 228,741      | 228,269      | 0,472         | 5,900      | 228,564  | -3,00     | 5,900      | 228,564  | -3,00     | 7,740                              | 227,338  | -1,226    |            | 227,338  | -1,226     |  |  |  |  |  |  |  |  |  |
| 3,226                              | 228,380  | -0,217     |            | 3,00      | 2,900      | 228,597  | 3,00      | 2,900      | 228,597  | 2+9,479                            | 228,510      | 228,242      | 0,268         | 5,900      | 228,333  | -3,00     | 5,900      | 228,333  | -3,00     | 7,455                              | 227,297  | -1,036    |            | 227,297  | -1,036     |  |  |  |  |  |  |  |  |  |
| 3,219                              | 228,372  | -0,213     |            | 3,00      | 2,900      | 228,585  | 3,00      | 2,900      | 228,585  | 2+10,000                           | 228,498      | 228,246      | 0,252         | 5,900      | 228,321  | -3,00     | 5,900      | 228,321  | -3,00     | 7,436                              | 227,297  | -1,024    |            | 227,297  | -1,024     |  |  |  |  |  |  |  |  |  |
| Sobreposição com a Rótula          |          |            |            |           |            |          |           |            |          | Sobreposição com a Rótula          |              |              |               |            |          |           |            |          |           |                                    |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
| 2,919                              | 227,996  | 0,019      |            |           | 2,900      | 227,977  | 3,00      |            | 227,977  | 3+0,000                            | 227,890      | 227,886      | 0,004         | 5,900      | 227,713  | -3,00     |            |          |           | 6,481                              | 227,326  | -0,387    |            | 227,326  | -0,387     |  |  |  |  |  |  |  |  |  |
| 4,118                              | 227,023  | -0,812     |            |           | 2,900      | 227,835  | 3,00      |            | 227,835  | 4+9,479                            | 227,748      | 227,473      | 0,275         | 5,900      | 227,571  | -3,00     |            |          |           | 6,409                              | 227,232  | -0,339    |            | 227,232  | -0,339     |  |  |  |  |  |  |  |  |  |
| 3,936                              | 226,999  | -0,691     |            |           | 2,900      | 227,690  | 3,00      |            | 227,690  | 5+0,000                            | 227,603      | 227,227      | 0,376         | 5,900      | 227,426  | -3,00     |            |          |           | 6,329                              | 227,140  | -0,286    |            | 227,140  | -0,286     |  |  |  |  |  |  |  |  |  |
| 4,104                              | 226,750  | -0,802     |            |           | 2,900      | 227,552  | 3,00      |            | 227,552  | 5+10,000                           | 227,465      | 227,309      | 0,156         | 5,900      | 227,288  | -3,00     |            |          |           | 6,426                              | 226,937  | -0,351    |            | 226,937  | -0,351     |  |  |  |  |  |  |  |  |  |
| 3,940                              | 226,729  | -0,693     |            |           | 2,900      | 227,422  | 3,00      |            | 227,422  | 6+0,000                            | 227,335      | 227,162      | 0,173         | 5,900      | 227,158  | -3,00     |            |          |           | 6,467                              | 226,780  | -0,378    |            | 226,780  | -0,378     |  |  |  |  |  |  |  |  |  |
| 4,273                              | 226,296  | -0,916     |            |           | 2,900      | 227,212  | 3,00      |            | 227,212  | 7+0,000                            | 227,125      | 225,813      | 1,312         | 5,900      | 226,948  | -3,00     |            |          |           | 7,404                              | 225,945  | -1,003    |            | 225,945  | -1,003     |  |  |  |  |  |  |  |  |  |
| 3,847                              | 226,435  | -0,632     |            |           | 2,900      | 227,067  | 3,00      |            | 227,067  | 8+0,000                            | 226,980      | 226,716      | 0,264         | 5,900      | 226,803  | -3,00     |            |          |           | 6,653                              | 226,301  | -0,502    |            | 226,301  | -0,502     |  |  |  |  |  |  |  |  |  |
| 4,411                              | 226,011  | -1,008     |            |           | 2,900      | 227,019  | 3,00      |            | 227,019  | 8+10,000                           | 226,932      | 226,804      | 0,128         | 5,900      | 226,755  | -3,00     |            |          |           | 5,925                              | 226,779  | 0,024     |            | 226,779  | 0,024      |  |  |  |  |  |  |  |  |  |
| 4,700                              | 225,798  | -1,201     |            |           | 2,900      | 226,999  | 3,00      |            | 226,999  | 8+15,000                           | 226,912      | 226,739      | 0,173         | 5,900      | 226,735  | -3,00     |            |          |           | 5,938                              | 226,709  | -0,026    |            | 226,709  | -0,026     |  |  |  |  |  |  |  |  |  |
| Sobreposição com a pista principal |          |            |            |           |            |          |           |            |          | Sobreposição com a pista principal |              |              |               |            |          |           |            |          |           | Sobreposição com a pista principal |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
| 9+0,000                            |          |            |            |           | 10+0,000   |          |           |            |          | 11+0,000                           |              |              |               |            | 12+0,000 |           |            |          |           | 12+1,777                           |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
| INTERSEÇÃO 02 - RÓTULA             |          |            |            |           |            |          |           |            |          |                                    |              |              |               |            |          |           |            |          |           |                                    |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
| Sobreposição com a pista principal |          |            |            |           |            |          |           |            |          | Sobreposição com a pista principal |              |              |               |            |          |           |            |          |           |                                    |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
| 6,249                              | 227,947  | -0,232     |            |           | 5,900      | 228,179  | -3,00     |            | 228,179  | 0+0,000                            | 228,356      | 227,974      | 0,382         | 5,900      | 228,533  | 3,00      |            |          |           | 7,023                              | 227,784  | -0,749    |            | 227,784  | -0,749     |  |  |  |  |  |  |  |  |  |
| 6,231                              | 228,470  | 0,331      |            |           | 5,900      | 228,139  | -3,00     |            | 228,139  | 0+12,000                           | 228,316      | 228,839      | -0,523        | 5,900      | 228,493  | 3,00      |            |          |           | 6,529                              | 229,122  | 0,629     |            | 229,122  | 0,629      |  |  |  |  |  |  |  |  |  |
| 6,239                              | 228,478  | 0,340      |            |           | 5,900      | 228,138  | -3,00     |            | 228,138  | 1+0,000                            | 228,315      | 228,854      | -0,559        | 5,900      | 228,492  | 3,00      |            |          |           | 6,561                              | 229,153  | 0,661     |            | 229,153  | 0,661      |  |  |  |  |  |  |  |  |  |
| 6,305                              | 227,769  | -0,270     |            |           | 5,900      | 228,039  | -3,00     |            | 228,039  | 2+0,000                            | 228,216      | 228,338      | -0,122        | 5,900      | 228,393  | 3,00      |            |          |           | 6,002                              | 228,495  | 0,102     |            | 228,495  | 0,102      |  |  |  |  |  |  |  |  |  |
| 6,305                              | 227,768  | -0,269     |            |           | 5,900      | 228,037  | -3,00     |            | 228,037  | 2+0,294                            | 228,214      | 228,333      | -0,119        | 5,900      | 228,391  | 3,00      |            |          |           | 5,989                              | 228,481  | 0,090     |            | 228,481  | 0,090      |  |  |  |  |  |  |  |  |  |
| 6,194                              | 228,263  | 0,293      |            |           | 5,900      | 227,970  | -3,00     |            | 227,970  | 2+13,851                           | 228,147      | 228,293      | -0,146        | 5,900      | 228,324  | 3,00      |            |          |           | 6,654                              | 227,821  | -0,503    |            | 227,821  | -0,503     |  |  |  |  |  |  |  |  |  |
| 6,222                              | 228,261  | 0,322      |            |           | 5,900      | 227,939  | -3,00     |            | 227,939  | 3+0,000                            | 228,116      | 228,230      | -0,114        | 5,900      | 228,293  | 3,00      |            |          |           | 7,038                              | 227,534  | -0,759    |            | 227,534  | -0,759     |  |  |  |  |  |  |  |  |  |
| 6,615                              | 227,425  | -0,477     |            |           | 5,900      | 227,902  | -3,00     |            | 227,902  | 3+7,408                            | 228,079      | 228,101      | -0,022        | 5,900      | 228,256  | 3,00      |            |          |           | 7,391                              | 227,262  | -0,994    |            | 227,262  | -0,994     |  |  |  |  |  |  |  |  |  |
| 6,238                              | 228,177  | 0,338      |            |           | 5,900      | 227,839  | -3,00     |            | 227,839  | 4+0,000                            | 228,016      | 227,265      | 0,751         | 5,900      | 228,193  | 3,00      |            |          |           | 6,645                              | 227,696  | -0,497    |            | 227,696  | -0,497     |  |  |  |  |  |  |  |  |  |
| 6,115                              | 228,017  | 0,214      |            |           | 5,900      | 227,803  | -3,00     |            | 227,803  | 4+7,169                            | 227,980      | 228,138      | -0,158        | 5,900      | 228,157  | 3,00      |            |          |           | 5,990                              | 228,096  | -0,061    |            | 228,096  | -0,061     |  |  |  |  |  |  |  |  |  |
| 6,122                              | 227,615  | -0,149     |            |           | 5,900      | 227,764  | -3,00     |            | 227,764  | 4+15,000                           | 227,941      | 227,641      | 0,300         | 5,900      | 228,118  | 3,00      |            |          |           | 6,375                              | 227,801  | -0,317    |            | 227,801  | -0,317     |  |  |  |  |  |  |  |  |  |
| Sobreposição com a pista principal |          |            |            |           |            |          |           |            |          | Sobreposição com a pista principal |              |              |               |            |          |           |            |          |           |                                    |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
| 5+0,000                            |          |            |            |           | 5+6,931    |          |           |            |          |                                    |              |              |               |            |          |           |            |          |           |                                    |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
| CONTINUAÇÃO PISTA RO-010           |          |            |            |           |            |          |           |            |          |                                    |              |              |               |            |          |           |            |          |           |                                    |          |           |            |          |            |  |  |  |  |  |  |  |  |  |
| 7,536                              | 225,498  | -1,090     |            |           | 5,900      | 226,588  | -3,40     |            | 226,588  | 997+0,000                          | 226,789      | 226,491      | 0,298         | 5,900      | 226,990  | 3,40      |            |          |           | 6,728                              | 226,437  | -0,553    |            | 226,437  | -0,553     |  |  |  |  |  |  |  |  |  |



## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |          |            |          |          |             |              |              |               |            |          |            |              |          |            |          |            |          |            |          |            |          |            |          |            |  |  |
|----------------------------------|----------|------------|------------|----------|------------|----------|----------|-------------|--------------|--------------|---------------|------------|----------|------------|--------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|--|--|
| Rodovia : RO-010    Lote 01      |          |            |            |          |            |          |          |             |              |              |               |            |          |            |              |          |            |          |            |          |            |          |            |          |            |          |            |  |  |
| Lado Esquerdo                    |          |            |            |          |            |          |          |             |              |              |               |            |          |            | Lado Direito |          |            |          |            |          |            |          |            |          |            |          |            |  |  |
| Offset                           |          |            |            |          | Banqueta   |          |          |             |              | Bordo        |               |            |          |            | Eixo         |          |            |          |            | Banqueta |            |          |            |          | Offset     |          |            |  |  |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%) | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Ind. (%) | Afast. (m) | Cota (m)     | Ind. (%) | Afast. (m) | Cota (m) | Afast. (m) | Ind. (%) | Afast. (m) | Cota (m) | Afast. (m) | Ind. (%) | Afast. (m) | Cota (m) | Altura (m) |  |  |
| 7,766                            | 225,284  | -1,244     |            |          | 5,900      | 226,528  | -3,40    | 997+14,945  | 226,729      | 226,466      | 0,263         | 5,900      | 226,930  | 3,40       |              |          |            |          | 5,900      | 226,930  | 3,40       | 6,702    | 226,394    | -0,536   |            |          |            |  |  |
| 7,745                            | 225,313  | -1,229     |            |          | 5,900      | 226,542  | -3,00    | 997+17,298  | 226,719      | 226,470      | 0,249         | 5,900      | 226,896  | 3,00       |              |          |            |          | 5,900      | 226,896  | 3,00       | 6,707    | 226,358    | -0,538   |            |          |            |  |  |
| 7,661                            | 225,358  | -1,173     |            |          | 5,900      | 226,531  | -3,00    | 998+0,000   | 226,708      | 226,473      | 0,235         | 5,900      | 226,858  | 2,54       |              |          |            |          | 5,900      | 226,858  | 2,54       | 6,711    | 226,318    | -0,540   |            |          |            |  |  |
| 7,213                            | 225,628  | -0,875     |            |          | 5,900      | 226,503  | -3,00    | 998+6,945   | 226,680      | 226,478      | 0,202         | 5,900      | 226,760  | 1,36       |              |          |            |          | 5,900      | 226,760  | 1,36       | 6,711    | 226,220    | -0,540   |            |          |            |  |  |
| 6,752                            | 225,903  | -0,568     |            |          | 5,900      | 226,471  | -3,00    | 998+14,945  | 226,648      | 226,463      | 0,185         | 5,900      | 226,648  | 0,00       |              |          |            |          | 5,900      | 226,648  | 0,00       | 6,750    | 226,082    | -0,566   |            |          |            |  |  |
| 6,843                            | 225,822  | -0,629     |            |          | 5,900      | 226,451  | -3,00    | 999+0,000   | 226,628      | 226,412      | 0,216         | 5,900      | 226,577  | -0,86      |              |          |            |          | 5,900      | 226,577  | -0,86      | 7,239    | 225,684    | -0,893   |            |          |            |  |  |
| 7,786                            | 225,143  | -1,257     |            |          | 5,900      | 226,400  | -3,00    | 999+12,592  | 226,577      | 226,261      | 0,316         | 5,900      | 226,400  | -3,00      |              |          |            |          | 5,900      | 226,400  | -3,00      | 8,201    | 224,866    | -1,534   |            |          |            |  |  |
| 8,080                            | 224,917  | -1,453     |            |          | 5,900      | 226,370  | -3,00    | 1000+0,000  | 226,547      | 226,129      | 0,418         | 5,900      | 226,370  | -3,00      |              |          |            |          | 5,900      | 226,370  | -3,00      | 8,445    | 224,673    | -1,697   |            |          |            |  |  |
| 7,088                            | 225,498  | -0,792     |            |          | 5,900      | 226,290  | -3,00    | 1001+0,000  | 226,467      | 225,836      | 0,631         | 5,900      | 226,290  | -3,00      |              |          |            |          | 5,900      | 226,290  | -3,00      | 8,701    | 224,422    | -1,868   |            |          |            |  |  |
| 7,232                            | 225,321  | -0,888     |            |          | 5,900      | 226,209  | -3,00    | 1002+0,000  | 226,386      | 225,738      | 0,648         | 5,900      | 226,209  | -3,00      |              |          |            |          | 5,900      | 226,209  | -3,00      | 8,179    | 224,690    | -1,519   |            |          |            |  |  |
| 7,126                            | 225,311  | -0,817     |            |          | 5,900      | 226,128  | -3,00    | 1003+0,000  | 226,305      | 225,598      | 0,707         | 5,900      | 226,128  | -3,00      |              |          |            |          | 5,900      | 226,128  | -3,00      | 8,552    | 224,361    | -1,767   |            |          |            |  |  |
| 7,618                            | 224,903  | -1,145     |            |          | 5,900      | 226,048  | -3,00    | 1004+0,000  | 226,225      | 225,448      | 0,777         | 5,900      | 226,048  | -3,00      |              |          |            |          | 5,900      | 226,048  | -3,00      | 7,252    | 225,147    | -0,901   |            |          |            |  |  |
| 8,442                            | 224,272  | -1,695     |            |          | 5,900      | 225,967  | -3,00    | 1005+0,000  | 226,144      | 225,341      | 0,803         | 5,900      | 225,967  | -3,00      |              |          |            |          | 5,900      | 225,967  | -3,00      | 8,393    | 224,305    | -1,662   |            |          |            |  |  |
| 10,165                           | 223,043  | -2,844     |            |          | 5,900      | 225,887  | -3,00    | 1006+0,000  | 226,064      | 224,512      | 1,552         | 5,900      | 225,887  | -3,00      |              |          |            |          | 5,900      | 225,887  | -3,00      | 7,858    | 224,581    | -1,306   |            |          |            |  |  |
| 8,306                            | 224,202  | -1,604     |            |          | 5,900      | 225,806  | -3,00    | 1007+0,000  | 225,983      | 225,543      | 0,440         | 5,900      | 225,806  | -3,00      |              |          |            |          | 5,900      | 225,806  | -3,00      | 7,044    | 225,043    | -0,763   |            |          |            |  |  |
| 6,910                            | 225,052  | -0,673     |            |          | 5,900      | 225,725  | -3,00    | 1008+0,000  | 225,902      | 225,850      | 0,052         | 5,900      | 225,725  | -3,00      |              |          |            |          | 5,900      | 225,725  | -3,00      | 6,891    | 225,065    | -0,660   |            |          |            |  |  |
| 6,499                            | 225,281  | -0,400     |            |          | 5,900      | 225,681  | -3,00    | 1008+11,046 | 225,858      | 225,880      | -0,022        | 5,900      | 225,681  | -3,00      |              |          |            |          | 5,900      | 225,681  | -3,00      | 6,380    | 226,161    | 0,480    |            |          |            |  |  |
| 6,592                            | 225,428  | -0,205     |            |          | 6,284      | 225,633  | -3,00    | 1009+0,000  | 225,822      | 225,817      | 0,005         | 6,284      | 225,633  | -3,00      |              |          |            |          | 6,284      | 225,633  | -3,00      | 7,173    | 226,522    | 0,889    |            |          |            |  |  |
| 7,832                            | 226,218  | 0,691      |            |          | 7,141      | 225,527  | -3,00    | 1010+0,000  | 225,741      | 226,018      | -0,277        | 7,141      | 225,527  | -3,00      |              |          |            |          | 7,141      | 225,527  | -3,00      | 8,386    | 226,772    | 1,245    |            |          |            |  |  |
| 8,838                            | 226,260  | 0,839      |            |          | 7,998      | 225,421  | -3,00    | 1011+0,000  | 225,661      | 225,803      | -0,142        | 7,998      | 225,421  | -3,00      |              |          |            |          | 7,998      | 225,421  | -3,00      | 9,683    | 227,105    | 1,684    |            |          |            |  |  |
| 9,915                            | 226,374  | 1,060      |            |          | 8,855      | 225,314  | -3,00    | 1012+0,000  | 225,580      | 226,158      | -0,578        | 8,855      | 225,314  | -3,00      |              |          |            |          | 8,855      | 225,314  | -3,00      | 10,564   | 227,023    | 1,709    |            |          |            |  |  |
| 9,992                            | 226,401  | 1,092      |            |          | 8,900      | 225,309  | -3,00    | 1012+1,046  | 225,576      | 226,191      | -0,615        | 8,900      | 225,309  | -3,00      |              |          |            |          | 8,900      | 225,309  | -3,00      | 10,617   | 227,026    | 1,717    |            |          |            |  |  |
| 10,126                           | 226,459  | 1,227      |            |          | 8,900      | 225,232  | -3,00    | 1013+0,000  | 225,499      | 226,375      | -0,876        | 8,900      | 225,232  | -3,00      |              |          |            |          | 8,900      | 225,232  | -3,00      | 10,714   | 227,047    | 1,815    |            |          |            |  |  |
| 10,620                           | 226,872  | 1,720      |            |          | 8,900      | 225,152  | -3,00    | 1014+0,000  | 225,419      | 226,559      | -1,140        | 8,900      | 225,152  | -3,00      |              |          |            |          | 8,900      | 225,152  | -3,00      | 10,980   | 227,231    | 2,079    |            |          |            |  |  |
| 10,679                           | 226,926  | 1,779      |            |          | 8,900      | 225,147  | -3,00    | 1014+1,054  | 225,414      | 226,569      | -1,155        | 8,900      | 225,147  | -3,00      |              |          |            |          | 8,900      | 225,147  | -3,00      | 11,005   | 227,253    | 2,106    |            |          |            |  |  |
| 9,843                            | 226,850  | 1,755      |            |          | 8,088      | 225,095  | -3,00    | 1015+0,000  | 225,338      | 226,406      | -1,068        | 8,088      | 225,095  | -3,00      |              |          |            |          | 8,088      | 225,095  | -3,00      | 10,820   | 227,827    | 2,732    |            |          |            |  |  |
| 8,498                            | 226,307  | 1,267      |            |          | 7,231      | 225,040  | -3,00    | 1016+0,000  | 225,257      | 226,235      | -0,978        | 7,231      | 225,040  | -3,00      |              |          |            |          | 7,231      | 225,040  | -3,00      | 8,839    | 226,648    | 1,608    |            |          |            |  |  |
| 7,577                            | 226,189  | 1,203      |            |          | 6,374      | 224,986  | -3,00    | 1017+0,000  | 225,177      | 225,866      | -0,689        | 6,374      | 224,986  | -3,00      |              |          |            |          | 6,374      | 224,986  | -3,00      | 7,309    | 225,921    | 0,935    |            |          |            |  |  |
| 6,897                            | 225,952  | 0,997      |            |          | 5,900      | 224,955  | -3,00    | 1017+11,054 | 225,132      | 225,780      | -0,648        | 5,900      | 224,955  | -3,00      |              |          |            |          | 5,900      | 224,955  | -3,00      | 6,346    | 225,401    | 0,446    |            |          |            |  |  |
| 6,745                            | 225,764  | 0,845      |            |          | 5,900      | 224,919  | -3,00    | 1018+0,000  | 225,096      | 225,731      | -0,635        | 5,900      | 224,919  | -3,00      |              |          |            |          | 5,900      | 224,919  | -3,00      | 6,103    | 225,122    | 0,203    |            |          |            |  |  |

## Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |          |           |            |          |           |            |         |              |        |              |              |               |            |          |           |            |          |           |            |          |            |
|----------------------------------|----------|------------|------------|----------|-----------|------------|----------|-----------|------------|---------|--------------|--------|--------------|--------------|---------------|------------|----------|-----------|------------|----------|-----------|------------|----------|------------|
| Rodovia : RO-010    Lote 01      |          |            |            |          |           |            |          |           |            |         |              |        |              |              |               |            |          |           |            |          |           |            |          |            |
| Lado Esquerdo                    |          |            |            |          |           |            |          |           |            |         | Lado Direito |        |              |              |               |            |          |           |            |          |           |            |          |            |
| Offset                           |          |            | Banqueta   |          |           |            |          |           | Bordo      |         | Estaca       |        | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo      |          |           | Banqueta   |          |           | Offset     |          |            |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (m) | Afast. (m) | Cota (m) | Incl. (%) |            |         |              |        |              |              |               | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |
| 6,401                            | 225,339  | 0,500      |            |          |           | 5,900      | 224,839  | -3,00     | 1019+0,000 | 225,016 | 225,204      | -0,188 |              | 5,900        | 224,839       | -3,00      |          |           |            | 6,083    | 225,022   | 0,183      |          |            |
| 6,345                            | 225,203  | 0,445      |            |          |           | 5,900      | 224,758  | -3,00     | 1020+0,000 | 224,935 | 224,733      | 0,202  |              | 5,900        | 224,758       | -3,00      |          |           |            | 6,316    | 225,174   | 0,416      |          |            |
| 6,066                            | 224,567  | -0,110     |            |          |           | 5,900      | 224,677  | -3,00     | 1021+0,000 | 224,854 | 224,418      | 0,436  |              | 5,900        | 224,677       | -3,00      |          |           |            | 6,192    | 224,483   | -0,194     |          |            |
| 6,796                            | 224,000  | -0,597     |            |          |           | 5,900      | 224,597  | -3,00     | 1022+0,000 | 224,774 | 223,880      | 0,894  |              | 5,900        | 224,597       | -3,00      |          |           |            | 6,631    | 224,109   | -0,488     |          |            |
| 7,676                            | 223,332  | -1,184     |            |          |           | 5,900      | 224,516  | -3,00     | 1023+0,000 | 224,693 | 224,009      | 0,684  |              | 5,900        | 224,516       | -3,00      |          |           |            | 6,751    | 223,949   | -0,567     |          |            |
| 7,950                            | 223,069  | -1,367     |            |          |           | 5,900      | 224,436  | -3,00     | 1024+0,000 | 224,613 | 224,014      | 0,599  |              | 5,900        | 224,436       | -3,00      |          |           |            | 6,848    | 223,804   | -0,632     |          |            |
| 7,783                            | 223,100  | -1,255     |            |          |           | 5,900      | 224,355  | -3,00     | 1025+0,000 | 224,532 | 223,914      | 0,618  |              | 5,900        | 224,355       | -3,00      |          |           |            | 8,359    | 222,715   | -1,640     |          |            |
| 7,838                            | 223,043  | -1,292     |            |          |           | 5,900      | 224,335  | -3,00     | 1025+5,000 | 224,512 | 223,877      | 0,635  |              | 5,900        | 224,335       | -3,00      |          |           |            | 8,193    | 222,806   | -1,529     |          |            |
| 7,920                            | 222,935  | -1,346     |            |          |           | 5,900      | 224,281  | -3,00     | 1026+0,000 | 224,458 | 223,770      | 0,688  |              | 5,900        | 224,281       | -3,00      |          |           |            | 8,363    | 222,639   | -1,642     |          |            |
| 6,418                            | 223,887  | -0,345     |            |          |           | 5,900      | 224,232  | -3,00     | 1027+0,000 | 224,409 | 223,982      | 0,427  |              | 5,900        | 224,232       | -3,00      |          |           |            | 8,162    | 222,724   | -1,508     |          |            |
| 5,982                            | 224,291  | 0,083      |            |          |           | 5,900      | 224,208  | -3,00     | 1028+0,000 | 224,385 | 224,139      | 0,246  |              | 5,900        | 224,208       | -3,00      |          |           |            | 8,340    | 222,581   | -1,627     |          |            |
| 5,987                            | 224,147  | -0,059     |            |          |           | 5,900      | 224,206  | -3,00     | 1028+9,080 | 224,383 | 223,979      | 0,404  |              | 5,900        | 224,206       | -3,00      |          |           |            | 8,177    | 222,688   | -1,518     |          |            |
| 6,198                            | 224,011  | -0,198     |            |          |           | 5,900      | 224,209  | -3,00     | 1029+0,000 | 224,386 | 223,728      | 0,658  |              | 5,900        | 224,209       | -3,00      |          |           |            | 8,111    | 222,735   | -1,474     |          |            |
| 5,980                            | 224,182  | -0,054     |            |          |           | 5,900      | 224,236  | -3,00     | 1030+0,000 | 224,413 | 223,274      | 1,139  |              | 5,900        | 224,236       | -3,00      |          |           |            | 8,111    | 222,761   | -1,475     |          |            |
| 6,011                            | 224,213  | -0,074     |            |          |           | 5,900      | 224,287  | -3,00     | 1031+0,000 | 224,464 | 223,343      | 1,121  |              | 5,900        | 224,287       | -3,00      |          |           |            | 7,601    | 223,153   | -1,134     |          |            |
| 5,993                            | 224,302  | -0,062     |            |          |           | 5,900      | 224,364  | -3,00     | 1032+0,000 | 224,541 | 224,001      | 0,540  |              | 5,900        | 224,364       | -3,00      |          |           |            | 7,508    | 223,292   | -1,072     |          |            |
| 5,964                            | 224,423  | -0,043     |            |          |           | 5,900      | 224,466  | -3,00     | 1033+0,000 | 224,643 | 223,730      | 0,913  |              | 5,900        | 224,466       | -3,00      |          |           |            | 7,177    | 223,614   | -0,852     |          |            |
| 6,413                            | 224,251  | -0,342     |            |          |           | 5,900      | 224,593  | -3,00     | 1034+0,000 | 224,770 | 223,660      | 1,110  |              | 5,900        | 224,593       | -3,00      |          |           |            | 7,219    | 223,713   | -0,880     |          |            |
| 6,145                            | 224,581  | -0,164     |            |          |           | 5,900      | 224,745  | -3,00     | 1035+0,000 | 224,922 | 223,775      | 1,147  |              | 5,900        | 224,745       | -3,00      |          |           |            | 7,113    | 223,936   | -0,809     |          |            |
| 6,072                            | 224,672  | -0,115     |            |          |           | 5,900      | 224,787  | -3,00     | 1035+5,000 | 224,964 | 223,807      | 1,157  |              | 5,900        | 224,787       | -3,00      |          |           |            | 7,167    | 223,942   | -0,845     |          |            |
| 6,191                            | 224,721  | -0,194     |            |          |           | 5,900      | 224,915  | -3,00     | 1036+0,000 | 225,092 | 224,086      | 1,006  |              | 5,900        | 224,915       | -3,00      |          |           |            | 7,318    | 223,969   | -0,946     |          |            |
| 6,661                            | 224,579  | -0,507     |            |          |           | 5,900      | 225,086  | -3,00     | 1037+0,000 | 225,263 | 224,687      | 0,576  |              | 5,900        | 225,086       | -3,00      |          |           |            | 7,498    | 224,021   | -1,065     |          |            |
| 6,625                            | 224,774  | -0,483     |            |          |           | 5,900      | 225,257  | -3,00     | 1038+0,000 | 225,434 | 224,707      | 0,727  |              | 5,900        | 225,257       | -3,00      |          |           |            | 7,766    | 224,013   | -1,244     |          |            |
| 6,610                            | 224,954  | -0,474     |            |          |           | 5,900      | 225,428  | -3,00     | 1039+0,000 | 225,605 | 224,779      | 0,826  |              | 5,900        | 225,428       | -3,00      |          |           |            | 7,882    | 224,106   | -1,322     |          |            |
| 6,667                            | 225,087  | -0,512     |            |          |           | 5,900      | 225,599  | -3,00     | 1040+0,000 | 225,776 | 225,041      | 0,735  |              | 5,900        | 225,599       | -3,00      |          |           |            | 8,070    | 224,152   | -1,447     |          |            |
| 6,713                            | 225,228  | -0,542     |            |          |           | 5,900      | 225,770  | -3,00     | 1041+0,000 | 225,947 | 225,178      | 0,769  |              | 5,900        | 225,770       | -3,00      |          |           |            | 7,717    | 224,559   | -1,211     |          |            |
| 6,682                            | 225,427  | -0,522     |            |          |           | 5,900      | 225,949  | -3,00     | 1042+0,000 | 226,126 | 225,229      | 0,897  |              | 5,900        | 225,949       | -3,00      |          |           |            | 7,164    | 225,106   | -0,843     |          |            |
| 6,575                            | 225,692  | -0,451     |            |          |           | 5,900      | 226,143  | -3,00     | 1043+0,000 | 226,320 | 225,750      | 0,570  |              | 5,900        | 226,143       | -3,00      |          |           |            | 6,890    | 225,482   | -0,661     |          |            |
| 6,806                            | 225,749  | -0,603     |            |          |           | 5,900      | 226,352  | -3,00     | 1044+0,000 | 226,529 | 226,077      | 0,452  |              | 5,900        | 226,352       | -3,00      |          |           |            | 7,595    | 225,222   | -1,130     |          |            |
| 6,964                            | 225,868  | -0,709     |            |          |           | 5,900      | 226,577  | -3,00     | 1045+0,000 | 226,754 | 226,242      | 0,512  |              | 5,900        | 226,577       | -3,00      |          |           |            | 7,766    | 225,333   | -1,244     |          |            |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |  |            |          |          |       |             |          |          |        |        |              |              |               |            |          |          |  |            |          |          |  |            |          |          |  |
|----------------------------------|----------|------------|--|------------|----------|----------|-------|-------------|----------|----------|--------|--------|--------------|--------------|---------------|------------|----------|----------|--|------------|----------|----------|--|------------|----------|----------|--|
| Rodovia : RO-010    Lote 01      |          |            |  |            |          |          |       |             |          |          |        |        |              |              |               |            |          |          |  |            |          |          |  |            |          |          |  |
| Lado Esquerdo                    |          |            |  |            |          |          |       |             |          |          |        |        |              | Lado Direito |               |            |          |          |  |            |          |          |  |            |          |          |  |
| Offset                           |          |            |  | Banqueta   |          |          |       | Bordo       |          |          |        | Eixo   |              |              |               | Banqueta   |          |          |  | Offset     |          |          |  |            |          |          |  |
| Afast. (m)                       | Cota (m) | Altura (m) |  | Afast. (m) | Cota (m) | Ind. (%) |       | Afast. (m)  | Cota (m) | Ind. (%) |        | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Ind. (%) |  | Afast. (m) | Cota (m) | Ind. (%) |  | Afast. (m) | Cota (m) | Ind. (%) |  |
| 8,259                            | 225,245  | -1,573     |  |            | 5,900    | 226,818  | -3,00 | 1046+0,000  | 226,995  | 226,541  | 0,454  |        |              |              |               | 5,900      | 226,818  | -3,00    |  |            |          |          |  | 8,038      | 225,392  | -1,426   |  |
| 7,414                            | 226,064  | -1,009     |  |            | 5,900    | 227,073  | -3,00 | 1047+0,000  | 227,250  | 227,084  | 0,166  |        |              |              |               | 5,900      | 227,073  | -3,00    |  |            |          |          |  | 7,862      | 225,765  | -1,308   |  |
| 7,275                            | 226,428  | -0,917     |  |            | 5,900    | 227,345  | -3,00 | 1048+0,000  | 227,522  | 227,200  | 0,322  |        |              |              |               | 5,900      | 227,345  | -3,00    |  |            |          |          |  | 7,694      | 226,149  | -1,196   |  |
| 7,149                            | 226,799  | -0,832     |  |            | 5,900    | 227,631  | -3,00 | 1049+0,000  | 227,808  | 227,759  | 0,049  |        |              |              |               | 5,900      | 227,631  | -3,00    |  |            |          |          |  | 7,709      | 226,425  | -1,206   |  |
| 7,134                            | 227,111  | -0,822     |  |            | 5,900    | 227,933  | -3,00 | 1050+0,000  | 228,110  | 227,718  | 0,392  |        |              |              |               | 5,900      | 227,933  | -3,00    |  |            |          |          |  | 7,122      | 227,118  | -0,815   |  |
| 7,069                            | 227,472  | -0,779     |  |            | 5,900    | 228,251  | -3,00 | 1051+0,000  | 228,428  | 228,339  | 0,089  |        |              |              |               | 5,900      | 228,251  | -3,00    |  |            |          |          |  | 7,610      | 227,111  | -1,140   |  |
| 5,942                            | 228,618  | 0,042      |  |            | 5,900    | 228,576  | -3,00 | 1052+0,000  | 228,753  | 228,835  | -0,082 |        |              |              |               | 5,900      | 228,576  | -3,00    |  |            |          |          |  | 7,429      | 227,557  | -1,019   |  |
| 6,194                            | 229,195  | 0,294      |  |            | 5,900    | 228,901  | -3,00 | 1053+0,000  | 229,078  | 229,389  | -0,311 |        |              |              |               | 5,900      | 228,901  | -3,00    |  |            |          |          |  | 7,615      | 227,758  | -1,143   |  |
| 6,227                            | 229,589  | 0,327      |  |            | 5,900    | 229,262  | -3,00 | 1054+0,000  | 229,439  | 229,740  | -0,301 |        |              |              |               | 5,900      | 229,262  | -3,00    |  |            |          |          |  | 6,337      | 228,970  | -0,292   |  |
| 6,263                            | 230,055  | 0,363      |  |            | 5,900    | 229,692  | -3,00 | 1055+0,000  | 229,869  | 229,971  | -0,102 |        |              |              |               | 5,900      | 229,692  | -3,00    |  |            |          |          |  | 5,930      | 229,722  | 0,030    |  |
| 6,170                            | 230,462  | 0,270      |  |            | 5,900    | 230,192  | -3,00 | 1056+0,000  | 230,369  | 230,534  | -0,165 |        |              |              |               | 5,900      | 230,192  | -3,00    |  |            |          |          |  | 6,318      | 230,610  | 0,418    |  |
| 6,166                            | 231,028  | 0,266      |  |            | 5,900    | 230,762  | -3,00 | 1057+0,000  | 230,939  | 231,281  | -0,342 |        |              |              |               | 5,900      | 230,762  | -3,00    |  |            |          |          |  | 6,078      | 230,940  | 0,178    |  |
| 6,408                            | 231,910  | 0,508      |  |            | 5,900    | 231,402  | -3,00 | 1058+0,000  | 231,579  | 231,983  | -0,404 |        |              |              |               | 5,900      | 231,402  | -3,00    |  |            |          |          |  | 6,200      | 231,702  | 0,300    |  |
| 6,531                            | 232,763  | 0,631      |  |            | 5,900    | 232,132  | -3,00 | 1059+0,000  | 232,309  | 232,920  | -0,611 |        |              |              |               | 5,900      | 232,132  | -3,00    |  |            |          |          |  | 6,346      | 232,578  | 0,446    |  |
| 6,528                            | 233,599  | 0,628      |  |            | 5,900    | 232,971  | -3,00 | 1060+0,000  | 233,148  | 234,005  | -0,857 |        |              |              |               | 5,900      | 232,971  | -3,00    |  |            |          |          |  | 6,761      | 233,831  | 0,860    |  |
| 6,545                            | 234,564  | 0,645      |  |            | 5,900    | 233,919  | -3,00 | 1061+0,000  | 234,096  | 234,882  | -0,786 |        |              |              |               | 5,900      | 233,919  | -3,00    |  |            |          |          |  | 6,838      | 234,857  | 0,938    |  |
| 6,623                            | 235,700  | 0,724      |  |            | 5,900    | 234,976  | -3,00 | 1062+0,000  | 235,153  | 235,490  | -0,337 |        |              |              |               | 5,900      | 234,976  | -3,00    |  |            |          |          |  | 6,480      | 235,556  | 0,580    |  |
| 6,959                            | 237,147  | 1,058      |  |            | 5,900    | 236,089  | -3,00 | 1063+0,000  | 236,266  | 236,006  | 0,260  |        |              |              |               | 5,900      | 236,089  | -3,00    |  |            |          |          |  | 6,361      | 236,549  | 0,460    |  |
| 7,322                            | 238,623  | 1,422      |  |            | 5,900    | 237,201  | -3,00 | 1064+0,000  | 237,378  | 237,361  | 0,017  |        |              |              |               | 5,900      | 237,201  | -3,00    |  |            |          |          |  | 6,518      | 237,819  | 0,618    |  |
| 6,920                            | 239,333  | 1,020      |  |            | 5,900    | 238,313  | -3,00 | 1065+0,000  | 238,490  | 238,775  | -0,285 |        |              |              |               | 5,900      | 238,313  | -3,00    |  |            |          |          |  | 6,093      | 238,507  | 0,194    |  |
| 6,206                            | 239,731  | 0,306      |  |            | 5,900    | 239,425  | -3,00 | 1066+0,000  | 239,602  | 240,245  | -0,643 |        |              |              |               | 5,900      | 239,425  | -3,00    |  |            |          |          |  | 6,032      | 239,557  | 0,132    |  |
| 7,008                            | 241,646  | 1,108      |  |            | 5,900    | 240,538  | -3,00 | 1067+0,000  | 240,715  | 241,193  | -0,478 |        |              |              |               | 5,900      | 240,538  | -3,00    |  |            |          |          |  | 5,900      | 240,538  | 0,000    |  |
| 7,379                            | 243,128  | 1,478      |  |            | 5,900    | 241,650  | -3,00 | 1068+0,000  | 241,827  | 241,902  | -0,075 |        |              |              |               | 5,900      | 241,650  | -3,00    |  |            |          |          |  | 5,909      | 241,644  | -0,006   |  |
| 7,450                            | 244,312  | 1,550      |  |            | 5,900    | 242,762  | -3,00 | 1069+0,000  | 242,939  | 242,822  | 0,117  |        |              |              |               | 5,900      | 242,762  | -3,00    |  |            |          |          |  | 6,669      | 243,531  | 0,769    |  |
| 7,307                            | 244,836  | 1,407      |  |            | 5,900    | 243,429  | -3,00 | 1069+12,000 | 243,606  | 244,211  | -0,605 |        |              |              |               | 5,900      | 243,429  | -3,00    |  |            |          |          |  | 7,017      | 244,546  | 1,117    |  |
| 7,241                            | 245,201  | 1,340      |  |            | 5,900    | 243,861  | -3,00 | 1070+0,000  | 244,038  | 244,820  | -0,782 |        |              |              |               | 5,900      | 243,861  | -3,00    |  |            |          |          |  | 7,285      | 245,246  | 1,385    |  |
| 7,747                            | 246,670  | 1,848      |  |            | 5,900    | 244,822  | -3,00 | 1071+0,000  | 244,999  | 246,360  | -1,361 |        |              |              |               | 5,900      | 244,822  | -3,00    |  |            |          |          |  | 7,442      | 246,364  | 1,542    |  |
| 8,989                            | 248,705  | 3,089      |  |            | 5,900    | 245,616  | -3,00 | 1072+0,000  | 245,793  | 248,053  | -2,260 |        |              |              |               | 5,900      | 245,616  | -3,00    |  |            |          |          |  | 8,726      | 248,442  | 2,826    |  |
| 12,239                           | 252,581  | 6,339      |  |            | 5,900    | 246,242  | -3,00 | 1073+0,000  | 246,419  | 250,958  | -4,539 |        |              |              |               | 5,900      | 246,242  | -3,00    |  |            |          |          |  | 10,393     | 250,735  | 4,493    |  |
| 22,751                           | 259,352  | 12,651     |  |            | 5,900    | 246,701  | -3,00 | 1074+0,000  | 246,878  | 253,297  | -6,419 |        |              |              |               | 5,900      | 246,701  | -3,00    |  |            |          |          |  | 13,636     | 254,437  | 7,736    |  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Nota de Serviço de Terraplenagem |          |            |            |          |          |            |          |          |             |              |              |               |            |          |          |            |          |          |
|----------------------------------|----------|------------|------------|----------|----------|------------|----------|----------|-------------|--------------|--------------|---------------|------------|----------|----------|------------|----------|----------|
| Rodovia : RO-010    Lote 01      |          |            |            |          |          |            |          |          |             |              |              |               |            |          |          |            |          |          |
| Lado Esquerdo                    |          |            |            |          |          |            |          |          |             | Lado Direito |              |               |            |          |          |            |          |          |
| Offset                           |          |            | Banqueta   |          |          |            | Bordo    |          |             | Eixo         |              |               | Banqueta   |          |          |            | Offset   |          |
| Afast. (m)                       | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%) | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%) |
| 21,952                           | 258,844  | 11,852     | 17,900     | 254,792  | -5,00    | 5,900      | 246,992  | -3,00    | 1075+0,000  | 247,169      | 254,610      | -7,441        | 5,900      | 246,992  | -3,00    | 13,900     | 254,992  | -5,00    |
| 21,732                           | 258,638  | 11,632     | 17,900     | 254,806  | -5,00    | 5,900      | 247,006  | -3,00    | 1075+1,421  | 247,183      | 254,671      | -7,488        | 5,900      | 247,006  | -3,00    | 13,900     | 254,992  | -5,00    |
| 19,815                           | 256,011  | 8,920      | 18,696     | 254,891  | -5,00    | 6,696      | 247,091  | -3,00    | 1076+0,000  | 247,292      | 255,139      | -7,847        | 6,696      | 247,091  | -3,00    | 14,696     | 255,091  | -3,00    |
| 19,740                           | 255,731  | 8,641      | 18,899     | 254,890  | -5,00    | 6,899      | 247,090  | -3,00    | 1076+4,726  | 247,297      | 254,923      | -7,626        | 6,899      | 247,090  | -3,00    | 14,899     | 255,090  | -3,00    |
| 15,028                           | 254,496  | 7,475      |            |          |          | 7,553      | 247,021  | -3,00    | 1077+0,000  | 247,248      | 254,087      | -6,839        | 7,553      | 247,021  | -3,00    | 15,553     | 255,021  | -3,00    |
| 15,131                           | 253,505  | 6,721      |            |          |          | 8,411      | 246,784  | -3,00    | 1078+0,000  | 247,036      | 252,246      | -5,210        | 8,411      | 246,784  | -3,00    |            |          |          |
| 14,978                           | 252,651  | 6,078      |            |          |          | 8,900      | 246,573  | -3,00    | 1078+11,421 | 246,840      | 251,206      | -4,366        | 8,900      | 246,573  | -3,00    |            |          |          |
| 14,289                           | 251,779  | 5,389      |            |          |          | 8,900      | 246,390  | -3,00    | 1079+0,000  | 246,657      | 250,349      | -3,692        | 8,900      | 246,390  | -3,00    |            |          |          |
| 12,677                           | 249,620  | 3,777      |            |          |          | 8,900      | 245,843  | -3,00    | 1080+0,000  | 246,110      | 248,212      | -2,102        | 8,900      | 245,843  | -3,00    |            |          |          |
| 11,934                           | 248,490  | 3,034      |            |          |          | 8,900      | 245,456  | -3,00    | 1080+11,406 | 245,723      | 246,962      | -1,239        | 8,900      | 245,456  | -3,00    |            |          |          |
| 11,047                           | 247,655  | 2,516      |            |          |          | 8,532      | 245,139  | -3,00    | 1081+0,000  | 245,395      | 246,330      | -0,935        | 8,532      | 245,139  | -3,00    |            |          |          |
| 10,085                           | 246,713  | 2,068      |            |          |          | 8,017      | 244,645  | -3,00    | 1081+12,000 | 244,886      | 245,366      | -0,480        | 8,018      | 244,645  | -3,00    |            |          |          |
| 9,544                            | 246,166  | 1,869      |            |          |          | 7,675      | 244,297  | -3,00    | 1082+0,000  | 244,527      | 244,741      | -0,214        | 7,675      | 244,297  | -3,00    |            |          |          |
| 9,419                            | 246,039  | 1,823      |            |          |          | 7,595      | 244,216  | -3,00    | 1082+1,847  | 244,444      | 244,597      | -0,153        | 7,596      | 244,216  | -3,00    |            |          |          |
| 9,123                            | 245,739  | 1,748      |            |          |          | 7,375      | 243,991  | -3,00    | 1082+6,990  | 244,212      | 244,364      | -0,152        | 7,375      | 243,991  | -3,00    |            |          |          |
| 8,720                            | 245,332  | 1,583      |            |          |          | 7,138      | 243,749  | -3,00    | 1082+12,528 | 243,963      | 244,231      | -0,268        | 7,138      | 243,749  | -3,00    |            |          |          |
| 8,178                            | 244,784  | 1,361      |            |          |          | 6,817      | 243,423  | -3,00    | 1083+0,000  | 243,628      | 243,735      | -0,107        | 6,818      | 243,423  | -3,00    |            |          |          |
| 7,705                            | 244,305  | 1,160      |            |          |          | 6,544      | 243,145  | -3,00    | 1083+6,374  | 243,341      | 243,301      | 0,040         | 6,545      | 243,145  | -3,00    |            |          |          |
| 7,705                            | 244,305  | 1,160      |            |          |          | 6,544      | 243,145  | -3,00    | 1083+6,378  | 243,341      | 243,301      | 0,040         | 6,544      | 243,145  | -3,00    |            |          |          |
| 7,386                            | 243,981  | 1,096      |            |          |          | 6,290      | 242,885  | -3,00    | 1083+12,308 | 243,074      | 242,999      | 0,075         | 6,290      | 242,885  | -3,00    |            |          |          |
| 6,972                            | 243,562  | 1,012      |            |          |          | 5,960      | 242,550  | -3,00    | 1084+0,000  | 242,729      | 242,643      | 0,086         | 5,961      | 242,550  | -3,00    |            |          |          |
| 6,897                            | 243,485  | 0,996      |            |          |          | 5,900      | 242,489  | -3,00    | 1084+1,406  | 242,666      | 242,578      | 0,088         | 5,900      | 242,489  | -3,00    |            |          |          |
| 5,921                            | 241,693  | 0,021      |            |          |          | 5,900      | 241,672  | -3,00    | 1085+0,000  | 241,849      | 241,530      | 0,319         | 5,900      | 241,672  | -3,00    |            |          |          |
| 6,581                            | 241,512  | 0,682      |            |          |          | 5,900      | 240,830  | -3,00    | 1086+0,000  | 241,007      | 240,732      | 0,275         | 5,900      | 240,830  | -3,00    |            |          |          |
| 6,155                            | 240,675  | 0,255      |            |          |          | 5,900      | 240,420  | -3,00    | 1086+10,084 | 240,597      | 240,298      | 0,299         | 5,900      | 240,420  | -3,00    |            |          |          |
| 6,314                            | 240,441  | 0,414      |            |          |          | 5,900      | 240,027  | -3,00    | 1087+0,000  | 240,204      | 239,852      | 0,352         | 5,900      | 240,027  | -3,00    |            |          |          |
| 5,953                            | 239,698  | 0,053      |            |          |          | 5,900      | 239,645  | -3,00    | 1087+9,864  | 239,822      | 239,602      | 0,220         | 5,900      | 239,645  | -3,00    |            |          |          |
| 5,953                            | 239,698  | 0,054      |            |          |          | 5,900      | 239,644  | -3,00    | 1087+9,867  | 239,821      | 239,601      | 0,220         | 5,900      | 239,644  | -3,00    |            |          |          |
| 6,019                            | 239,381  | 0,120      |            |          |          | 5,900      | 239,261  | -3,00    | 1088+0,000  | 239,438      | 239,315      | 0,123         | 5,900      | 239,261  | -3,00    |            |          |          |
| 7,037                            | 239,672  | 1,138      |            |          |          | 5,900      | 238,534  | -3,00    | 1089+0,000  | 238,711      | 238,655      | 0,056         | 5,900      | 238,534  | -3,00    |            |          |          |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |           |          |            |           |             |              |              |               |            |          |           | Lado Direito |          |           |            |          |           |            |          |           |            |          |        |            |        |
|---------------|----------|------------|-----------|----------|------------|-----------|-------------|--------------|--------------|---------------|------------|----------|-----------|--------------|----------|-----------|------------|----------|-----------|------------|----------|-----------|------------|----------|--------|------------|--------|
| Offset        |          |            |           |          |            |           | Eixo        |              |              |               |            |          |           | Bordo        |          |           |            |          |           |            | Banqueta |           |            |          |        |            |        |
| Afast. (m)    | Cota (m) | Altura (m) | Incl. (%) | Cota (m) | Afast. (m) | Incl. (%) | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m)   | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Offset | Altura (m) |        |
|               |          |            |           |          |            |           |             |              |              |               |            |          |           |              |          |           |            |          |           |            |          |           |            |          |        |            |        |
| 7,328         | 239,274  | 1,428      | -3,00     | 237,846  | 5,900      | -3,00     | 1090+0,000  | 238,023      | 238,116      | -0,093        | 5,900      | 237,846  | -3,00     | 5,900        | 237,846  | -3,00     | 5,900      | 237,846  | -3,00     | 5,900      | 237,846  | -3,00     | 5,900      | 237,846  | 6,267  | 238,213    | 0,367  |
| 7,582         | 238,930  | 1,682      | -3,00     | 237,248  | 5,900      | -3,00     | 1090+18,321 | 237,425      | 237,541      | -0,116        | 5,900      | 237,248  | -3,00     | 5,900        | 237,248  | -3,00     | 5,900      | 237,248  | -3,00     | 5,900      | 237,248  | -3,00     | 5,900      | 237,248  | 6,465  | 237,813    | 0,565  |
| 7,559         | 238,854  | 1,659      | -3,00     | 237,195  | 5,900      | -3,00     | 1091+0,000  | 237,372      | 237,459      | -0,087        | 5,900      | 237,195  | -3,00     | 5,900        | 237,195  | -3,00     | 5,900      | 237,195  | -3,00     | 5,900      | 237,195  | -3,00     | 5,900      | 237,195  | 6,302  | 237,597    | 0,402  |
| 7,349         | 238,013  | 1,450      | -3,00     | 236,563  | 5,900      | -3,00     | 1092+0,000  | 236,740      | 236,762      | -0,022        | 5,900      | 236,563  | -3,00     | 5,900        | 236,563  | -3,00     | 5,900      | 236,563  | -3,00     | 5,900      | 236,563  | -3,00     | 5,900      | 236,563  | 5,987  | 236,650    | 0,087  |
| 7,284         | 237,789  | 1,383      | -3,00     | 236,406  | 5,900      | -3,00     | 1092+5,000  | 236,583      | 236,608      | -0,025        | 5,900      | 236,406  | -3,00     | 5,900        | 236,406  | -3,00     | 5,900      | 236,406  | -3,00     | 5,900      | 236,406  | -3,00     | 5,900      | 236,406  | 5,950  | 236,455    | 0,049  |
| 7,116         | 237,171  | 1,216      | -3,00     | 235,955  | 5,900      | -3,00     | 1093+0,000  | 236,132      | 236,127      | 0,005         | 5,900      | 235,955  | -3,00     | 5,900        | 235,955  | -3,00     | 5,900      | 235,955  | -3,00     | 5,900      | 235,955  | -3,00     | 5,900      | 235,955  | 6,090  | 235,829    | -0,126 |
| 6,587         | 236,113  | 0,687      | -3,00     | 235,426  | 5,900      | -3,00     | 1094+0,000  | 235,603      | 235,460      | 0,143         | 5,900      | 235,426  | -3,00     | 5,900        | 235,426  | -3,00     | 5,900      | 235,426  | -3,00     | 5,900      | 235,426  | -3,00     | 5,900      | 235,426  | 6,277  | 235,175    | -0,251 |
| 6,059         | 235,139  | 0,159      | -3,00     | 234,980  | 5,900      | -3,00     | 1095+0,000  | 235,157      | 234,885      | 0,272         | 5,900      | 234,980  | -3,00     | 5,900        | 234,980  | -3,00     | 5,900      | 234,980  | -3,00     | 5,900      | 234,980  | -3,00     | 5,900      | 234,980  | 6,309  | 234,707    | -0,273 |
| 5,955         | 234,578  | -0,037     | -3,00     | 234,615  | 5,900      | -3,00     | 1096+0,000  | 234,792      | 234,310      | 0,482         | 5,900      | 234,615  | -3,00     | 5,900        | 234,615  | -3,00     | 5,900      | 234,615  | -3,00     | 5,900      | 234,615  | -3,00     | 5,900      | 234,615  | 7,945  | 233,252    | -1,363 |
| 6,988         | 233,607  | -0,726     | -3,00     | 234,333  | 5,900      | -3,00     | 1097+0,000  | 234,510      | 233,867      | 0,643         | 5,900      | 234,333  | -3,00     | 5,900        | 234,333  | -3,00     | 5,900      | 234,333  | -3,00     | 5,900      | 234,333  | -3,00     | 5,900      | 234,333  | 8,482  | 232,611    | -1,722 |
| 7,819         | 232,853  | -1,280     | -3,00     | 234,133  | 5,900      | -3,00     | 1098+0,000  | 234,310      | 233,406      | 0,904         | 5,900      | 234,133  | -3,00     | 5,900        | 234,133  | -3,00     | 5,900      | 234,133  | -3,00     | 5,900      | 234,133  | -3,00     | 5,900      | 234,133  | 8,676  | 232,282    | -1,851 |
| 8,945         | 231,984  | -2,030     | -3,00     | 234,014  | 5,900      | -3,00     | 1099+0,000  | 234,191      | 233,321      | 0,870         | 5,900      | 234,014  | -3,00     | 5,900        | 234,014  | -3,00     | 5,900      | 234,014  | -3,00     | 5,900      | 234,014  | -3,00     | 5,900      | 234,014  | 8,859  | 232,042    | -1,972 |
| 9,129         | 231,826  | -2,152     | -3,00     | 233,978  | 5,900      | -3,00     | 1099+18,734 | 234,155      | 233,212      | 0,943         | 5,900      | 233,978  | -3,00     | 5,900        | 233,978  | -3,00     | 5,900      | 233,978  | -3,00     | 5,900      | 233,978  | -3,00     | 5,900      | 233,978  | 8,952  | 231,944    | -2,034 |
| 9,152         | 231,810  | -2,169     | -3,00     | 233,979  | 5,900      | -3,00     | 1100+0,000  | 234,156      | 233,123      | 1,033         | 5,900      | 233,979  | -3,00     | 5,900        | 233,979  | -3,00     | 5,900      | 233,979  | -3,00     | 5,900      | 233,979  | -3,00     | 5,900      | 233,979  | 9,196  | 231,781    | -2,198 |
| 9,179         | 231,839  | -2,186     | -3,00     | 234,025  | 5,900      | -3,00     | 1101+0,000  | 234,202      | 233,446      | 0,756         | 5,900      | 234,025  | -3,00     | 5,900        | 234,025  | -3,00     | 5,900      | 234,025  | -3,00     | 5,900      | 234,025  | -3,00     | 5,900      | 234,025  | 9,595  | 231,562    | -2,463 |
| 8,968         | 232,108  | -2,045     | -3,00     | 234,153  | 5,900      | -3,00     | 1102+0,000  | 234,330      | 233,420      | 0,910         | 5,900      | 234,153  | -3,00     | 5,900        | 234,153  | -3,00     | 5,900      | 234,153  | -3,00     | 5,900      | 234,153  | -3,00     | 5,900      | 234,153  | 9,071  | 232,040    | -2,113 |
| 8,624         | 232,548  | -1,816     | -3,00     | 234,364  | 5,900      | -3,00     | 1103+0,000  | 234,541      | 233,590      | 0,951         | 5,900      | 234,364  | -3,00     | 5,900        | 234,364  | -3,00     | 5,900      | 234,364  | -3,00     | 5,900      | 234,364  | -3,00     | 5,900      | 234,364  | 7,482  | 233,309    | -1,055 |
| 7,636         | 233,499  | -1,158     | -3,00     | 234,657  | 5,900      | -3,00     | 1104+0,000  | 234,834      | 234,058      | 0,776         | 5,900      | 234,657  | -3,00     | 5,900        | 234,657  | -3,00     | 5,900      | 234,657  | -3,00     | 5,900      | 234,657  | -3,00     | 5,900      | 234,657  | 7,387  | 233,665    | -0,992 |
| 7,374         | 233,760  | -0,983     | -3,00     | 234,743  | 5,900      | -3,00     | 1104+5,000  | 234,920      | 234,108      | 0,812         | 5,900      | 234,743  | -3,00     | 5,900        | 234,743  | -3,00     | 5,900      | 234,743  | -3,00     | 5,900      | 234,743  | -3,00     | 5,900      | 234,743  | 6,608  | 234,271    | -0,472 |
| 6,526         | 234,591  | -0,417     | -3,00     | 235,008  | 5,900      | -3,00     | 1105+0,000  | 235,185      | 234,416      | 0,769         | 5,900      | 235,008  | -3,00     | 5,900        | 235,008  | -3,00     | 5,900      | 235,008  | -3,00     | 5,900      | 235,008  | -3,00     | 5,900      | 235,008  | 6,699  | 234,476    | -0,532 |
| 6,367         | 235,830  | 0,467      | -3,00     | 235,363  | 5,900      | -3,00     | 1106+0,000  | 235,540      | 234,813      | 0,727         | 5,900      | 235,363  | -3,00     | 5,900        | 235,363  | -3,00     | 5,900      | 235,363  | -3,00     | 5,900      | 235,363  | -3,00     | 5,900      | 235,363  | 6,561  | 234,922    | -0,441 |
| 6,453         | 236,271  | 0,554      | -3,00     | 235,717  | 5,900      | -3,00     | 1107+0,000  | 235,894      | 235,654      | 0,240         | 5,900      | 235,717  | -3,00     | 5,900        | 235,717  | -3,00     | 5,900      | 235,717  | -3,00     | 5,900      | 235,717  | -3,00     | 5,900      | 235,717  | 6,498  | 235,318    | -0,399 |
| 6,002         | 236,004  | -0,068     | -3,00     | 236,072  | 5,900      | -3,00     | 1108+0,000  | 236,249      | 236,240      | 0,009         | 5,900      | 236,072  | -3,00     | 5,900        | 236,072  | -3,00     | 5,900      | 236,072  | -3,00     | 5,900      | 236,072  | -3,00     | 5,900      | 236,072  | 5,920  | 236,091    | 0,019  |
| 6,124         | 236,650  | 0,224      | -3,00     | 236,426  | 5,900      | -3,00     | 1109+0,000  | 236,603      | 236,555      | 0,048         | 5,900      | 236,426  | -3,00     | 5,900        | 236,426  | -3,00     | 5,900      | 236,426  | -3,00     | 5,900      | 236,426  | -3,00     | 5,900      | 236,426  | 6,010  | 236,536    | 0,110  |
| 6,093         | 236,938  | 0,193      | -3,00     | 236,745  | 5,900      | -3,00     | 1109+18,000 | 236,922      | 236,914      | 0,008         | 5,900      | 236,745  | -3,00     | 5,900        | 236,745  | -3,00     | 5,900      | 236,745  | -3,00     | 5,900      | 236,745  | -3,00     | 5,900      | 236,745  | 6,183  | 237,028    | 0,283  |
| 6,160         | 237,040  | 0,260      | -3,00     | 236,780  | 5,900      | -3,00     | 1110+0,000  | 236,957      | 236,934      | 0,023         | 5,900      | 236,780  | -3,00     | 5,900        | 236,780  | -3,00     | 5,900      | 236,780  | -3,00     | 5,900      | 236,780  | -3,00     | 5,900      | 236,780  | 6,191  | 237,071    | 0,291  |
| 6,856         | 238,074  | 0,956      | -3,00     | 237,118  | 5,900      | -3,00     | 1111+0,000  | 237,295      | 237,258      | 0,037         | 5,900      | 237,118  | -3,00     | 5,900        | 237,118  | -3,00     | 5,900      | 237,118  | -3,00     | 5,900      | 237,118  | -3,00     | 5,900      | 237,118  | 6,473  | 237,691    | 0,573  |
| 6,194         | 237,723  | 0,294      | -3,00     | 237,429  | 5,900      | -3,00     | 1112+0,000  | 237,606      | 237,608      | -0,002        | 5,900      | 237,429  | -3,00     | 5,900        | 237,429  | -3,00     | 5,900      | 237,429  | -3,00     | 5,900      | 237,429  | -3,00     | 5,900      | 237,429  | 6,540  | 238,069    | 0,640  |
| 5,923         | 237,696  | -0,015     | -3,00     | 237,711  | 5,900      | -3,00     | 1113+0,000  | 237,888      | 238,006      | -0,118        | 5,900      | 237,711  | -3,00     | 5,900        | 237,711  | -3,00     | 5,900      | 237,711  | -3,00     | 5,900      | 237,711  | -3,00     | 5,900      | 237,711  | 6,536  | 238,348    | 0,637  |
| 6,052         | 237,866  | -0,101     | -3,00     | 237,967  | 5,900      | -3,00     | 1114+0,000  | 238,144      | 238,270      | -0,126        | 5,900      | 237,967  | -3,00     | 5,900        | 237,967  | -3,00     | 5,900      | 237,967  | -3,00     | 5,900      | 237,967  | -3,00     | 5,900      | 237,967  | 6,959  | 239,026    | 1,059  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |           |          |            |          |             |              |              |               |           |          |            | Lado Direito |            |          |           |          |            |          |           |          |            |          |         |            |        |
|---------------|----------|------------|-----------|----------|------------|----------|-------------|--------------|--------------|---------------|-----------|----------|------------|--------------|------------|----------|-----------|----------|------------|----------|-----------|----------|------------|----------|---------|------------|--------|
| Offset        |          |            |           |          |            |          | Eixo        |              |              |               |           |          |            | Bordo        |            |          |           |          |            |          | Banqueta  |          |            |          |         |            |        |
| Afast. (m)    | Cota (m) | Altura (m) | Incl. (%) | Cota (m) | Afast. (m) | Cota (m) | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Incl. (%) | Cota (m) | Afast. (m) | Cota (m)     | Afast. (m) | Cota (m) | Incl. (%) | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Cota (m) | Afast. (m) | Cota (m) | Offset  | Altura (m) |        |
|               |          |            |           |          |            |          |             |              |              |               |           |          |            |              |            |          |           |          |            |          |           |          |            |          |         |            |        |
| 6,083         | 238,378  | 0,183      | -3,00     | 5,900    | 238,195    | -3,00    | 1115+0,000  | 238,372      | 238,542      | -0,170        | -3,00     | 5,900    | 238,195    | -3,00        | 5,900      | 238,195  | -3,00     | 5,900    | 238,195    | -3,00    | 5,900     | 238,195  | -3,00      | 5,900    | 238,195 | 6,849      | 0,949  |
| 6,385         | 238,881  | 0,485      | -3,00     | 5,900    | 238,396    | -3,00    | 1116+0,000  | 238,573      | 238,727      | -0,154        | -3,00     | 5,900    | 238,396    | -3,00        | 5,900      | 238,396  | -3,00     | 5,900    | 238,396    | -3,00    | 5,900     | 238,396  | -3,00      | 5,900    | 238,396 | 6,739      | 0,838  |
| 6,337         | 238,989  | 0,436      | -3,00     | 5,900    | 238,553    | -3,00    | 1116+18,000 | 238,730      | 238,887      | -0,157        | -3,00     | 5,900    | 238,553    | -3,00        | 5,900      | 238,553  | -3,00     | 5,900    | 238,553    | -3,00    | 5,900     | 238,553  | -3,00      | 5,900    | 238,553 | 7,053      | 1,153  |
| 6,324         | 238,993  | 0,424      | -3,00     | 5,900    | 238,569    | -3,00    | 1117+0,000  | 238,746      | 238,893      | -0,147        | -3,00     | 5,900    | 238,569    | -3,00        | 5,900      | 238,569  | -3,00     | 5,900    | 238,569    | -3,00    | 5,900     | 238,569  | -3,00      | 5,900    | 238,569 | 7,053      | 1,153  |
| 6,046         | 238,877  | 0,146      | -3,00     | 5,900    | 238,731    | -3,00    | 1118+0,000  | 238,908      | 238,973      | -0,065        | -3,00     | 5,900    | 238,731    | -3,00        | 5,900      | 238,731  | -3,00     | 5,900    | 238,731    | -3,00    | 5,900     | 238,731  | -3,00      | 5,900    | 238,731 | 7,004      | 1,104  |
| 6,027         | 239,020  | 0,127      | -3,00     | 5,900    | 238,893    | -3,00    | 1119+0,000  | 239,070      | 239,108      | -0,038        | -3,00     | 5,900    | 238,893    | -3,00        | 5,900      | 238,893  | -3,00     | 5,900    | 238,893    | -3,00    | 5,900     | 238,893  | -3,00      | 5,900    | 238,893 | 6,659      | 0,760  |
| 5,985         | 238,998  | -0,057     | -3,00     | 5,900    | 239,055    | -3,00    | 1120+0,000  | 239,232      | 239,159      | 0,073         | -3,00     | 5,900    | 239,055    | -3,00        | 5,900      | 239,055  | -3,00     | 5,900    | 239,055    | -3,00    | 5,900     | 239,055  | -3,00      | 5,900    | 239,055 | 6,426      | 0,526  |
| 6,197         | 239,019  | -0,198     | -3,00     | 5,900    | 239,217    | -3,00    | 1121+0,000  | 239,394      | 239,215      | 0,179         | -3,00     | 5,900    | 239,217    | -3,00        | 5,900      | 239,217  | -3,00     | 5,900    | 239,217    | -3,00    | 5,900     | 239,217  | -3,00      | 5,900    | 239,217 | 5,900      | 0,000  |
| 6,755         | 238,810  | -0,569     | -3,00     | 5,900    | 239,379    | -3,00    | 1122+0,000  | 239,556      | 238,866      | 0,690         | -3,00     | 5,900    | 239,379    | -3,00        | 5,900      | 239,379  | -3,00     | 5,900    | 239,379    | -3,00    | 5,900     | 239,379  | -3,00      | 5,900    | 239,379 | 6,572      | -0,448 |
| 7,460         | 238,502  | -1,040     | -3,00     | 5,900    | 239,542    | -3,00    | 1123+0,000  | 239,719      | 238,298      | 1,421         | -3,00     | 5,900    | 239,542    | -3,00        | 5,900      | 239,542  | -3,00     | 5,900    | 239,542    | -3,00    | 5,900     | 239,542  | -3,00      | 5,900    | 239,542 | 7,106      | -0,805 |
| 7,821         | 238,423  | -1,281     | -3,00     | 5,900    | 239,704    | -3,00    | 1124+0,000  | 239,881      | 237,697      | 2,184         | -3,00     | 5,900    | 239,704    | -3,00        | 5,900      | 239,704  | -3,00     | 5,900    | 239,704    | -3,00    | 5,900     | 239,704  | -3,00      | 5,900    | 239,704 | 8,357      | -1,638 |
| 8,224         | 238,316  | -1,550     | -3,00     | 5,900    | 239,866    | -3,00    | 1125+0,000  | 240,043      | 237,473      | 2,570         | -3,00     | 5,900    | 239,866    | -3,00        | 5,900      | 239,866  | -3,00     | 5,900    | 239,866    | -3,00    | 5,900     | 239,866  | -3,00      | 5,900    | 239,866 | 9,679      | -2,520 |
| 8,305         | 238,425  | -1,603     | -3,00     | 5,900    | 240,028    | -3,00    | 1126+0,000  | 240,205      | 237,523      | 2,682         | -3,00     | 5,900    | 240,028    | -3,00        | 5,900      | 240,028  | -3,00     | 5,900    | 240,028    | -3,00    | 5,900     | 240,028  | -3,00      | 5,900    | 240,028 | 9,983      | -2,722 |
| 8,231         | 238,636  | -1,554     | -3,00     | 5,900    | 240,190    | -3,00    | 1127+0,000  | 240,367      | 237,716      | 2,651         | -3,00     | 5,900    | 240,190    | -3,00        | 5,900      | 240,190  | -3,00     | 5,900    | 240,190    | -3,00    | 5,900     | 240,190  | -3,00      | 5,900    | 240,190 | 10,334     | -2,956 |
| 8,221         | 238,805  | -1,547     | -3,00     | 5,900    | 240,352    | -3,00    | 1128+0,000  | 240,529      | 237,950      | 2,579         | -3,00     | 5,900    | 240,352    | -3,00        | 5,900      | 240,352  | -3,00     | 5,900    | 240,352    | -3,00    | 5,900     | 240,352  | -3,00      | 5,900    | 240,352 | 9,979      | -2,719 |
| 7,947         | 239,150  | -1,364     | -3,00     | 5,900    | 240,514    | -3,00    | 1129+0,000  | 240,691      | 238,378      | 2,313         | -3,00     | 5,900    | 240,514    | -3,00        | 5,900      | 240,514  | -3,00     | 5,900    | 240,514    | -3,00    | 5,900     | 240,514  | -3,00      | 5,900    | 240,514 | 8,989      | -2,059 |
| 6,884         | 240,021  | -0,655     | -3,00     | 5,900    | 240,676    | -3,00    | 1130+0,000  | 240,853      | 238,964      | 1,889         | -3,00     | 5,900    | 240,676    | -3,00        | 5,900      | 240,676  | -3,00     | 5,900    | 240,676    | -3,00    | 5,900     | 240,676  | -3,00      | 5,900    | 240,676 | 7,025      | -0,750 |
| 6,439         | 240,382  | -0,359     | -3,00     | 5,900    | 240,741    | -3,00    | 1130+8,000  | 240,918      | 239,472      | 1,446         | -3,00     | 5,900    | 240,741    | -3,00        | 5,900      | 240,741  | -3,00     | 5,900    | 240,741    | -3,00    | 5,900     | 240,741  | -3,00      | 5,900    | 240,741 | 6,596      | -0,464 |
| 5,927         | 240,859  | 0,027      | -3,00     | 5,900    | 240,832    | -3,00    | 1131+0,000  | 241,009      | 240,159      | 0,850         | -3,00     | 5,900    | 240,832    | -3,00        | 5,900      | 240,832  | -3,00     | 5,900    | 240,832    | -3,00    | 5,900     | 240,832  | -3,00      | 5,900    | 240,832 | 6,398      | -0,332 |
| 7,068         | 242,121  | 1,168      | -3,00     | 5,900    | 240,953    | -3,00    | 1132+0,000  | 241,130      | 241,292      | -0,162        | -3,00     | 5,900    | 240,953    | -3,00        | 5,900      | 240,953  | -3,00     | 5,900    | 240,953    | -3,00    | 5,900     | 240,953  | -3,00      | 5,900    | 240,953 | 6,593      | 0,693  |
| 7,983         | 243,121  | 2,083      | -3,00     | 5,900    | 241,038    | -3,00    | 1133+0,000  | 241,215      | 242,045      | -0,830        | -3,00     | 5,900    | 241,038    | -3,00        | 5,900      | 241,038  | -3,00     | 5,900    | 241,038    | -3,00    | 5,900     | 241,038  | -3,00      | 5,900    | 241,038 | 7,741      | 1,841  |
| 8,156         | 243,342  | 2,256      | -3,00     | 5,900    | 241,086    | -3,00    | 1134+0,000  | 241,263      | 242,614      | -1,351        | -3,00     | 5,900    | 241,086    | -3,00        | 5,900      | 241,086  | -3,00     | 5,900    | 241,086    | -3,00    | 5,900     | 241,086  | -3,00      | 5,900    | 241,086 | 7,594      | 1,694  |
| 8,212         | 243,409  | 2,312      | -3,00     | 5,900    | 241,097    | -3,00    | 1134+15,859 | 241,274      | 242,717      | -1,443        | -3,00     | 5,900    | 241,097    | -3,00        | 5,900      | 241,097  | -3,00     | 5,900    | 241,097    | -3,00    | 5,900     | 241,097  | -3,00      | 5,900    | 241,097 | 7,901      | 2,001  |
| 8,253         | 243,450  | 2,353      | -3,00     | 5,900    | 241,097    | -3,00    | 1135+0,000  | 241,274      | 242,722      | -1,448        | -3,00     | 5,900    | 241,097    | -3,00        | 5,900      | 241,097  | -3,00     | 5,900    | 241,097    | -3,00    | 5,900     | 241,097  | -3,00      | 5,900    | 241,097 | 8,152      | 2,251  |
| 7,636         | 242,807  | 1,737      | -3,00     | 5,900    | 241,070    | -3,00    | 1136+0,000  | 241,247      | 242,631      | -1,384        | -3,00     | 5,900    | 241,070    | -3,00        | 5,900      | 241,070  | -3,00     | 5,900    | 241,070    | -3,00    | 5,900     | 241,070  | -3,00      | 5,900    | 241,070 | 7,841      | 1,941  |
| 7,708         | 242,816  | 1,809      | -3,00     | 5,900    | 241,007    | -3,00    | 1137+0,000  | 241,184      | 242,267      | -1,083        | -3,00     | 5,900    | 241,007    | -3,00        | 5,900      | 241,007  | -3,00     | 5,900    | 241,007    | -3,00    | 5,900     | 241,007  | -3,00      | 5,900    | 241,007 | 7,481      | 1,582  |
| 7,301         | 242,308  | 1,400      | -3,00     | 5,900    | 240,908    | -3,00    | 1138+0,000  | 241,085      | 241,811      | -0,726        | -3,00     | 5,900    | 240,908    | -3,00        | 5,900      | 240,908  | -3,00     | 5,900    | 240,908    | -3,00    | 5,900     | 240,908  | -3,00      | 5,900    | 240,908 | 6,887      | 0,987  |
| 7,553         | 242,424  | 1,653      | -3,00     | 5,900    | 240,771    | -3,00    | 1139+0,000  | 240,948      | 241,253      | -0,305        | -3,00     | 5,900    | 240,771    | -3,00        | 5,900      | 240,771  | -3,00     | 5,900    | 240,771    | -3,00    | 5,900     | 240,771  | -3,00      | 5,900    | 240,771 | 6,677      | 0,777  |
| 7,151         | 241,848  | 1,251      | -3,00     | 5,900    | 240,597    | -3,00    | 1140+0,000  | 240,774      | 240,938      | -0,164        | -3,00     | 5,900    | 240,597    | -3,00        | 5,900      | 240,597  | -3,00     | 5,900    | 240,597    | -3,00    | 5,900     | 240,597  | -3,00      | 5,900    | 240,597 | 6,105      | 0,205  |
| 6,801         | 241,287  | 0,901      | -3,00     | 5,900    | 240,386    | -3,00    | 1141+0,000  | 240,563      | 240,570      | -0,007        | -3,00     | 5,900    | 240,386    | -3,00        | 5,900      | 240,386  | -3,00     | 5,900    | 240,386    | -3,00    | 5,900     | 240,386  | -3,00      | 5,900    | 240,386 | 6,252      | 0,353  |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |           |            |          |           |            |          |            |          |           |            |          | Lado Direito |              |              |               |            |          |           |            |          |           |            |          |            |         |        |
|---------------|----------|------------|------------|-----------|------------|----------|-----------|------------|----------|------------|----------|-----------|------------|----------|--------------|--------------|--------------|---------------|------------|----------|-----------|------------|----------|-----------|------------|----------|------------|---------|--------|
| Offset        |          |            |            |           | Banqueta   |          |           |            |          | Bordo      |          |           |            |          | Eixo         |              |              |               |            | Banqueta |           |            |          |           | Offset     |          |            |         |        |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Estaca       | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |         |        |
| 6.591         | 240.830  | 0.691      |            | -3,00     | 5.900      | 240.139  | -3,00     | 5.900      | 240.139  | 5.900      | 240.139  | -3,00     | 5.900      | 240.139  | 1142+0.000   | 240.316      | 240.168      | 0.148         | 5.900      | 240.139  | -3,00     | 5.900      | 240.139  | -3,00     | 5.900      | 240.139  | 6.176      | 240.415 | 0.276  |
| 6.801         | 240.755  | 0.901      |            | -3,00     | 5.900      | 239.854  | -3,00     | 5.900      | 239.854  | 5.900      | 239.854  | -3,00     | 5.900      | 239.854  | 1143+0.000   | 240.031      | 239.735      | 0.296         | 5.900      | 239.854  | -3,00     | 5.900      | 239.854  | -3,00     | 5.900      | 239.854  | 6.175      | 240.130 | 0.276  |
| 6.467         | 240.100  | 0.567      |            | -3,00     | 5.900      | 239.533  | -3,00     | 5.900      | 239.533  | 5.900      | 239.533  | -3,00     | 5.900      | 239.533  | 1144+0.000   | 239.710      | 239.330      | 0.380         | 5.900      | 239.533  | -3,00     | 5.900      | 239.533  | -3,00     | 5.900      | 239.533  | 6.077      | 239.415 | -0.118 |
| 6.108         | 239.383  | 0.208      |            | -3,00     | 5.900      | 239.175  | -3,00     | 5.900      | 239.175  | 5.900      | 239.175  | -3,00     | 5.900      | 239.175  | 1145+0.000   | 239.352      | 238.900      | 0.452         | 5.900      | 239.175  | -3,00     | 5.900      | 239.175  | -3,00     | 5.900      | 239.175  | 5.991      | 239.266 | 0.091  |
| 5.962         | 238.842  | 0.062      |            | -3,00     | 5.900      | 238.780  | -3,00     | 5.900      | 238.780  | 5.900      | 238.780  | -3,00     | 5.900      | 238.780  | 1146+0.000   | 238.957      | 238.537      | 0.420         | 5.900      | 238.780  | -3,00     | 5.900      | 238.780  | -3,00     | 5.900      | 238.780  | 6.226      | 238.562 | -0.218 |
| 6.224         | 238.671  | 0.323      |            | -3,00     | 5.900      | 238.348  | -3,00     | 5.900      | 238.348  | 5.900      | 238.348  | -3,00     | 5.900      | 238.348  | 1147+0.000   | 238.525      | 238.442      | 0.083         | 5.900      | 238.348  | -3,00     | 5.900      | 238.348  | -3,00     | 5.900      | 238.348  | 5.998      | 238.282 | -0.066 |
| 6.287         | 238.266  | 0.387      |            | -3,00     | 5.900      | 237.879  | -3,00     | 5.900      | 237.879  | 5.900      | 237.879  | -3,00     | 5.900      | 237.879  | 1148+0.000   | 238.056      | 238.310      | -0.254        | 5.900      | 237.879  | -3,00     | 5.900      | 237.879  | -3,00     | 5.900      | 237.879  | 6.353      | 238.331 | 0.452  |
| 6.321         | 238.101  | 0.420      |            | -3,00     | 5.900      | 237.681  | -3,00     | 5.900      | 237.681  | 5.900      | 237.681  | -3,00     | 5.900      | 237.681  | 1148+8.000   | 237.858      | 238.187      | -0.329        | 5.900      | 237.681  | -3,00     | 5.900      | 237.681  | -3,00     | 5.900      | 237.681  | 6.468      | 238.249 | 0.568  |
| 6.579         | 238.059  | 0.679      |            | -3,00     | 5.900      | 237.380  | -3,00     | 5.900      | 237.380  | 5.900      | 237.380  | -3,00     | 5.900      | 237.380  | 1149+0.000   | 237.557      | 237.892      | -0.335        | 5.900      | 237.380  | -3,00     | 5.900      | 237.380  | -3,00     | 5.900      | 237.380  | 6.203      | 237.682 | 0.302  |
| 6.053         | 236.775  | -0.102     |            | -3,00     | 5.900      | 236.877  | -3,00     | 5.900      | 236.877  | 5.900      | 236.877  | -3,00     | 5.900      | 236.877  | 1150+0.000   | 237.054      | 236.862      | 0.192         | 5.900      | 236.877  | -3,00     | 5.900      | 236.877  | -3,00     | 5.900      | 236.877  | 5.901      | 236.878 | 0.001  |
| 6.719         | 235.829  | -0.546     |            | -3,00     | 5.900      | 236.375  | -3,00     | 5.900      | 236.375  | 5.900      | 236.375  | -3,00     | 5.900      | 236.375  | 1151+0.000   | 236.552      | 235.597      | 0.955         | 5.900      | 236.375  | -3,00     | 5.900      | 236.375  | -3,00     | 5.900      | 236.375  | 6.388      | 236.050 | -0.325 |
| 7.766         | 234.629  | -1.244     |            | -3,00     | 5.900      | 235.873  | -3,00     | 5.900      | 235.873  | 5.900      | 235.873  | -3,00     | 5.900      | 235.873  | 1152+0.000   | 236.050      | 233.816      | 2.234         | 5.900      | 235.873  | -3,00     | 5.900      | 235.873  | -3,00     | 5.900      | 235.873  | 7.176      | 235.022 | -0.851 |
| 9.355         | 233.068  | -2.303     |            | -3,00     | 5.900      | 235.371  | -3,00     | 5.900      | 235.371  | 5.900      | 235.371  | -3,00     | 5.900      | 235.371  | 1153+0.000   | 235.548      | 232.726      | 2.822         | 5.900      | 235.371  | -3,00     | 5.900      | 235.371  | -3,00     | 5.900      | 235.371  | 10.124     | 232.555 | -2.816 |
| 8.571         | 233.088  | -1.781     |            | -3,00     | 5.900      | 234.869  | -3,00     | 5.900      | 234.869  | 5.900      | 234.869  | -3,00     | 5.900      | 234.869  | 1154+0.000   | 235.046      | 232.530      | 2.516         | 5.900      | 234.869  | -3,00     | 5.900      | 234.869  | -3,00     | 5.900      | 234.869  | 10.525     | 231.785 | -3.084 |
| 6.949         | 233.667  | -0.699     |            | -3,00     | 5.900      | 234.366  | -3,00     | 5.900      | 234.366  | 5.900      | 234.366  | -3,00     | 5.900      | 234.366  | 1155+0.000   | 234.543      | 232.998      | 1.545         | 5.900      | 234.366  | -3,00     | 5.900      | 234.366  | -3,00     | 5.900      | 234.366  | 6.931      | 233.679 | -0.887 |
| 6.542         | 234.557  | 0.642      |            | -3,00     | 5.900      | 233.915  | -3,00     | 5.900      | 233.915  | 5.900      | 233.915  | -3,00     | 5.900      | 233.915  | 1155+18.000  | 234.092      | 234.347      | -0.255        | 5.900      | 233.915  | -3,00     | 5.900      | 233.915  | -3,00     | 5.900      | 233.915  | 6.940      | 234.955 | 1.040  |
| 7.345         | 235.309  | 1.445      |            | -3,00     | 5.900      | 233.864  | -3,00     | 5.900      | 233.864  | 5.900      | 233.864  | -3,00     | 5.900      | 233.864  | 1156+0.000   | 234.041      | 234.496      | -0.455        | 5.900      | 233.864  | -3,00     | 5.900      | 233.864  | -3,00     | 5.900      | 233.864  | 7.165      | 235.129 | 1.265  |
| 9.415         | 236.842  | 3.514      |            | -3,00     | 5.900      | 233.328  | -3,00     | 5.900      | 233.328  | 5.900      | 233.328  | -3,00     | 5.900      | 233.328  | 1157+0.000   | 233.505      | 235.210      | -1.705        | 5.900      | 233.328  | -3,00     | 5.900      | 233.328  | -3,00     | 5.900      | 233.328  | 7.318      | 234.746 | 1.418  |
| 9.245         | 236.079  | 3.344      |            | -3,00     | 5.900      | 232.735  | -3,00     | 5.900      | 232.735  | 5.900      | 232.735  | -3,00     | 5.900      | 232.735  | 1158+0.000   | 232.912      | 234.837      | -1.925        | 5.900      | 232.735  | -3,00     | 5.900      | 232.735  | -3,00     | 5.900      | 232.735  | 7.480      | 234.315 | 1.580  |
| 8.448         | 234.633  | 2.548      |            | -3,00     | 5.900      | 232.085  | -3,00     | 5.900      | 232.085  | 5.900      | 232.085  | -3,00     | 5.900      | 232.085  | 1159+0.000   | 232.262      | 234.368      | -2.106        | 5.900      | 232.085  | -3,00     | 5.900      | 232.085  | -3,00     | 5.900      | 232.085  | 7.602      | 233.787 | 1.702  |
| 8.549         | 234.027  | 2.649      |            | -3,00     | 5.900      | 231.378  | -3,00     | 5.900      | 231.378  | 5.900      | 231.378  | -3,00     | 5.900      | 231.378  | 1160+0.000   | 231.555      | 233.525      | -1.970        | 5.900      | 231.378  | -3,00     | 5.900      | 231.378  | -3,00     | 5.900      | 231.378  | 7.803      | 233.281 | 1.903  |
| 7.907         | 232.622  | 2.008      |            | -3,00     | 5.900      | 230.614  | -3,00     | 5.900      | 230.614  | 5.900      | 230.614  | -3,00     | 5.900      | 230.614  | 1161+0.000   | 230.791      | 232.549      | -1.758        | 5.900      | 230.614  | -3,00     | 5.900      | 230.614  | -3,00     | 5.900      | 230.614  | 7.371      | 232.085 | 1.471  |
| 9.139         | 233.118  | 3.239      |            | -3,00     | 5.900      | 229.879  | -3,00     | 5.900      | 229.879  | 5.900      | 229.879  | -3,00     | 5.900      | 229.879  | 1161+18.000  | 230.056      | 231.417      | -1.361        | 5.900      | 229.879  | -3,00     | 5.900      | 229.879  | -3,00     | 5.900      | 229.879  | 7.018      | 230.996 | 1.117  |
| 9.095         | 232.989  | 3.195      |            | -3,00     | 5.900      | 229.794  | -3,00     | 5.900      | 229.794  | 5.900      | 229.794  | -3,00     | 5.900      | 229.794  | 1162+0.000   | 229.971      | 231.272      | -1.301        | 5.900      | 229.794  | -3,00     | 5.900      | 229.794  | -3,00     | 5.900      | 229.794  | 6.995      | 230.890 | 1.096  |
| 9.051         | 232.861  | 3.151      |            | -3,00     | 5.900      | 229.710  | -3,00     | 5.900      | 229.710  | 5.900      | 229.710  | -3,00     | 5.900      | 229.710  | 1162+2.000   | 229.887      | 231.127      | -1.240        | 5.900      | 229.710  | -3,00     | 5.900      | 229.710  | -3,00     | 5.900      | 229.710  | 6.973      | 230.783 | 1.073  |
| 6.764         | 229.896  | 0.863      |            | -3,00     | 5.900      | 229.033  | -3,00     | 5.900      | 229.033  | 5.900      | 229.033  | -3,00     | 5.900      | 229.033  | 1163+0.000   | 229.210      | 229.523      | -0.313        | 5.900      | 229.033  | -3,00     | 5.900      | 229.033  | -3,00     | 5.900      | 229.033  | 6.181      | 229.314 | 0.281  |
| 6.106         | 228.371  | -0.137     |            | -3,00     | 5.900      | 228.508  | -3,00     | 5.900      | 228.508  | 5.900      | 228.508  | -3,00     | 5.900      | 228.508  | 1163+18.416  | 228.685      | 227.991      | 0.694         | 5.900      | 228.508  | -3,00     | 5.900      | 228.508  | -3,00     | 5.900      | 228.508  | 6.462      | 228.133 | -0.375 |
| 6.015         | 228.516  | 0.047      |            | -3,00     | 5.968      | 228.469  | -3,00     | 5.968      | 228.469  | 5.968      | 228.469  | -3,00     | 5.968      | 228.469  | 1164+0.000   | 228.648      | 227.868      | 0.780         | 5.968      | 228.469  | -3,00     | 5.968      | 228.469  | -3,00     | 5.968      | 228.469  | 6.501      | 228.114 | -0.355 |
| 8.348         | 227.068  | -1.015     |            | -3,00     | 6.825      | 228.083  | -3,00     | 6.825      | 228.083  | 6.825      | 228.083  | -3,00     | 6.825      | 228.083  | 1165+0.000   | 228.288      | 226.704      | 1.584         | 6.825      | 228.083  | -3,00     | 6.825      | 228.083  | -3,00     | 6.825      | 228.083  | 8.046      | 227.269 | -0.814 |
| 11.840        | 225.126  | -2.772     |            | -3,00     | 7.682      | 227.898  | -3,00     | 7.682      | 227.898  | 7.682      | 227.898  | -3,00     | 7.682      | 227.898  | 1166+0.000   | 228.128      | 225.082      | 3.046         | 7.682      | 227.898  | -3,00     | 7.682      | 227.898  | -3,00     | 7.682      | 227.898  | 11.476     | 225.368 | -2.530 |

## Nota de Serviço de Terraplenagem

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |            |          |            |          |          |              |              |               |            |          |            |          |          |            |          |
|---------------|----------|------------|------------|----------|------------|----------|------------|----------|----------|--------------|--------------|---------------|------------|----------|------------|----------|----------|------------|----------|
| Offset        |          |            |            |          |            |          |            |          |          | Eixo         |              |               |            |          |            |          |          |            |          |
| Afast. (m)    | Cota (m) | Altura (m) | Banqueta   |          |            |          | Bordo      |          |          | Cota Projeto | Cota Terreno | Cota Vermelha | Banqueta   |          |            |          |          |            |          |
|               |          |            | Afast. (m) | Cota (m) | Afast. (m) | Ind. (%) | Afast. (m) | Cota (m) | Ind. (%) |              |              |               | Afast. (m) | Cota (m) | Afast. (m) | Ind. (%) | Cota (m) | Afast. (m) | Ind. (%) |
| 10,598        | 226,105  | -1,777     |            |          |            | -3,00    | 7,933      | 227,882  | -3,00    | 228,120      | 226,095      | 2,025         | 7,933      | 227,882  |            | -3,00    | 225,876  |            | -2,006   |
| 8,783         | 228,158  | 0,244      |            |          |            | -3,00    | 8,539      | 227,914  | -3,00    | 228,170      | 227,057      | 1,113         | 8,539      | 227,914  |            | -3,00    | 226,476  |            | -1,438   |
| 9,686         | 228,766  | 0,785      |            |          |            | -3,00    | 8,900      | 227,981  | -3,00    | 228,248      | 227,583      | 0,665         | 8,900      | 227,981  |            | -3,00    | 227,712  |            | -0,269   |
| 10,037        | 229,283  | 1,137      |            |          |            | -3,00    | 8,900      | 228,146  | -3,00    | 228,413      | 228,321      | 0,092         | 8,900      | 228,146  |            | -3,00    | 228,948  |            | 0,802    |
| 10,043        | 229,324  | 1,143      |            |          |            | -3,00    | 8,900      | 228,181  | -3,00    | 228,448      | 228,437      | 0,011         | 8,900      | 228,181  |            | -3,00    | 229,016  |            | 0,835    |
| 10,047        | 229,365  | 1,147      |            |          |            | -3,00    | 8,900      | 228,218  | -3,00    | 228,485      | 228,553      | -0,068        | 8,900      | 228,218  |            | -3,00    | 229,058  |            | 0,840    |
| 11,438        | 231,002  | 2,538      |            |          |            | -3,00    | 8,900      | 228,464  | -3,00    | 228,731      | 229,198      | -0,467        | 8,900      | 228,464  |            | -3,00    | 229,419  |            | 0,955    |
| 11,347        | 231,005  | 2,447      |            |          |            | -3,00    | 8,900      | 228,558  | -3,00    | 228,825      | 229,691      | -0,866        | 8,900      | 228,558  |            | -3,00    | 229,679  |            | 1,121    |
| 11,394        | 231,651  | 2,989      |            |          |            | -3,00    | 8,405      | 228,662  | -3,00    | 228,914      | 230,341      | -1,427        | 8,405      | 228,662  |            | -3,00    | 229,950  |            | 1,288    |
| 10,507        | 231,534  | 2,804      |            |          |            | -3,00    | 7,703      | 228,730  | -3,00    | 228,961      | 230,451      | -1,490        | 7,703      | 228,730  |            | -3,00    | 230,177  |            | 1,447    |
| 10,320        | 231,504  | 2,771      |            |          |            | -3,00    | 7,548      | 228,733  | -3,00    | 228,959      | 230,476      | -1,517        | 7,548      | 228,733  |            | -3,00    | 230,316  |            | 1,583    |
| 9,346         | 231,319  | 2,656      |            |          |            | -3,00    | 6,691      | 228,663  | -3,00    | 228,864      | 230,204      | -1,340        | 6,691      | 228,663  |            | -3,00    | 229,887  |            | 1,224    |
| 8,217         | 230,794  | 2,317      |            |          |            | -3,00    | 5,900      | 228,477  | -3,00    | 228,654      | 229,763      | -1,109        | 5,900      | 228,477  |            | -3,00    | 229,361  |            | 0,884    |
| 8,156         | 230,710  | 2,256      |            |          |            | -3,00    | 5,900      | 228,454  | -3,00    | 228,631      | 229,715      | -1,084        | 5,900      | 228,454  |            | -3,00    | 229,312  |            | 0,858    |
| 7,425         | 229,606  | 1,524      |            |          |            | -3,00    | 5,900      | 228,082  | -3,00    | 228,259      | 229,253      | -0,994        | 5,900      | 228,082  |            | -3,00    | 228,723  |            | 0,641    |
| 7,386         | 229,477  | 1,486      |            |          |            | -3,00    | 5,900      | 227,991  | -3,00    | 228,168      | 229,112      | -0,944        | 5,900      | 227,991  |            | -3,00    | 228,494  |            | 0,503    |
| 7,340         | 229,055  | 1,440      |            |          |            | -3,00    | 5,900      | 227,615  | -3,00    | 227,792      | 228,417      | -0,625        | 5,900      | 227,615  |            | -3,00    | 227,823  |            | 0,208    |
| 7,734         | 228,980  | 1,834      |            |          |            | -3,00    | 5,900      | 227,146  | -3,00    | 227,323      | 227,612      | -0,289        | 5,900      | 227,146  |            | -3,00    | 226,939  |            | -0,207   |
| 7,452         | 228,229  | 1,552      |            |          |            | -3,00    | 5,900      | 226,677  | -3,00    | 226,854      | 226,978      | -0,124        | 5,900      | 226,677  |            | -3,00    | 226,666  |            | -0,011   |
| 7,234         | 227,542  | 1,335      |            |          |            | -3,00    | 5,900      | 226,207  | -3,00    | 226,384      | 226,324      | 0,060         | 5,900      | 226,207  |            | -3,00    | 226,171  |            | -0,036   |
| 6,828         | 226,666  | 0,928      |            |          |            | -3,00    | 5,900      | 225,738  | -3,00    | 225,915      | 226,059      | -0,144        | 5,900      | 225,738  |            | -3,00    | 225,839  |            | 0,101    |
| 6,143         | 225,512  | 0,243      |            |          |            | -3,00    | 5,900      | 225,269  | -3,00    | 225,446      | 225,359      | 0,087         | 5,900      | 225,269  |            | -3,00    | 225,025  |            | -0,244   |
| 5,912         | 224,792  | -0,008     |            |          |            | -3,00    | 5,900      | 224,800  | -3,00    | 224,977      | 224,640      | 0,337         | 5,900      | 224,800  |            | -3,00    | 224,479  |            | -0,321   |
| 6,611         | 223,857  | -0,473     |            |          |            | -3,00    | 5,900      | 224,330  | -3,00    | 224,507      | 223,972      | 0,535         | 5,900      | 224,330  |            | -3,00    | 223,881  |            | -0,449   |
| 6,638         | 223,785  | -0,492     |            |          |            | -3,00    | 5,900      | 224,277  | -3,00    | 224,454      | 223,898      | 0,556         | 5,900      | 224,277  |            | -3,00    | 223,846  |            | -0,431   |
| 6,779         | 223,369  | -0,586     |            |          |            | -3,00    | 5,900      | 223,955  | -3,00    | 224,132      | 223,377      | 0,755         | 5,900      | 224,091  |            | -0,69    | 223,671  |            | -0,420   |
| 6,795         | 223,266  | -0,597     |            |          |            | -3,00    | 5,900      | 223,863  | -3,00    | 224,040      | 223,345      | 0,695         | 5,900      | 224,039  |            | -0,01    | 223,633  |            | -0,406   |
| 6,795         | 223,265  | -0,597     |            |          |            | -3,00    | 5,900      | 223,862  | -3,00    | 224,039      | 223,344      | 0,695         | 5,900      | 224,039  |            | 0,00     | 223,632  |            | -0,407   |
| 6,835         | 223,075  | -0,623     |            |          |            | -3,00    | 5,900      | 223,698  | -3,00    | 223,875      | 223,195      | 0,680         | 5,900      | 223,951  |            | 1,28     | 223,562  |            | -0,389   |
| 6,840         | 222,875  | -0,627     |            |          |            | -3,00    | 5,900      | 223,502  | -3,00    | 223,679      | 222,962      | 0,717         | 5,900      | 223,856  |            | 3,00     | 223,331  |            | -0,525   |



## Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |            |            |          |           |            |          |           |             | Eixo         |              |               |            | Lado Direito |           |            |          |           |            |          |            |
|---------------|----------|------------|------------|----------|-----------|------------|----------|-----------|-------------|--------------|--------------|---------------|------------|--------------|-----------|------------|----------|-----------|------------|----------|------------|
| Offset        |          |            | Banqueta   |          |           |            | Bordo    |           |             | Cota Terreno |              | Cota Vermelha |            | Bordo        |           |            | Banqueta |           |            | Offset   |            |
| Afast. (m)    | Cota (m) | Altura (m) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Estraza     | Cota Projeto | Cota Terreno | Cota Vermelha | Afast. (m) | Cota (m)     | Incl. (%) | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m) | Cota (m) | Altura (m) |
| 6.823         | 222.853  | -0.616     |            |          | -3,20     | 5,900      | 223,469  | -3,20     | 1183+19.072 | 223,658      | 222,936      | 0,722         | 5,900      | 223,847      | 3,20      | 6,740      | 223,287  |           | 6,740      | 223,287  | -0,560     |
| 6.101         | 223.318  | -0.134     |            |          | -3,20     | 5,900      | 223,452  | -3,20     | 1184+0.000  | 223,641      | 222,915      | 0,726         | 5,900      | 223,830      | 3,20      | 6,775      | 223,247  |           | 6,775      | 223,247  | -0,583     |
| 7.272         | 222.240  | -0.914     |            |          | -3,20     | 5,900      | 223,154  | -3,20     | 1185+0.000  | 223,343      | 222,770      | 0,573         | 5,900      | 223,532      | 3,20      | 7,926      | 222,181  |           | 7,926      | 222,181  | -1,351     |
| 7.668         | 221.779  | -1.178     |            |          | -3,20     | 5,900      | 222,957  | -3,20     | 1186+0.000  | 223,146      | 222,280      | 0,866         | 5,900      | 223,335      | 3,20      | 7,633      | 222,179  |           | 7,633      | 222,179  | -1,156     |
| 7.498         | 221.795  | -1.066     |            |          | -3,20     | 5,900      | 222,861  | -3,20     | 1187+0.000  | 223,050      | 222,359      | 0,691         | 5,900      | 223,239      | 3,20      | 7,871      | 221,925  |           | 7,871      | 221,925  | -1,314     |
| 7.563         | 221.742  | -1.108     |            |          | -3,20     | 5,900      | 222,850  | -3,20     | 1187+9.158  | 223,039      | 222,288      | 0,751         | 5,900      | 223,228      | 3,20      | 8,274      | 221,646  |           | 8,274      | 221,646  | -1,582     |
| 6.181         | 222.678  | -0.187     |            |          | -3,20     | 5,900      | 222,865  | -3,20     | 1188+0.000  | 223,054      | 221,952      | 1,102         | 5,900      | 223,243      | 3,20      | 7,738      | 222,017  |           | 7,738      | 222,017  | -1,226     |
| 6.869         | 222.324  | -0.646     |            |          | -3,20     | 5,900      | 222,970  | -3,20     | 1189+0.000  | 223,159      | 221,943      | 1,216         | 5,900      | 223,348      | 3,20      | 7,597      | 222,216  |           | 7,597      | 222,216  | -1,132     |
| 7.029         | 222.230  | -0.753     |            |          | -3,20     | 5,900      | 222,983  | -3,20     | 1189+1.587  | 223,172      | 221,976      | 1,196         | 5,900      | 223,361      | 3,20      | 7,542      | 222,266  |           | 7,542      | 222,266  | -1,095     |
| 6.407         | 222.838  | -0.338     |            |          | -3,20     | 5,900      | 223,176  | -3,20     | 1190+0.000  | 223,365      | 222,320      | 1,045         | 5,900      | 223,554      | 3,20      | 8,082      | 222,099  |           | 8,082      | 222,099  | -1,455     |
| 6.418         | 224.000  | 0.518      |            |          | -3,20     | 5,900      | 223,482  | -3,20     | 1191+0.000  | 223,671      | 222,911      | 0,760         | 5,900      | 223,860      | 3,20      | 7,017      | 223,115  |           | 7,017      | 223,115  | -0,745     |
| 6.904         | 224.893  | 1.004      |            |          | -3,20     | 5,900      | 223,889  | -3,20     | 1192+0.000  | 224,078      | 224,008      | 0,070         | 5,900      | 224,267      | 3,20      | 6,645      | 223,770  |           | 6,645      | 223,770  | -0,497     |
| 7.070         | 225.458  | 1.170      |            |          | -3,20     | 5,900      | 224,288  | -3,20     | 1192+16.000 | 224,477      | 224,690      | -0,213        | 5,900      | 224,666      | 3,20      | 6,970      | 223,952  |           | 6,970      | 223,952  | -0,714     |
| 6.783         | 225.278  | 0.883      |            |          | -3,20     | 5,900      | 224,395  | -3,20     | 1193+0.000  | 224,584      | 224,817      | -0,233        | 5,900      | 224,773      | 3,20      | 6,907      | 224,102  |           | 6,907      | 224,102  | -0,671     |
| 6.050         | 224.834  | -0.099     |            |          | -3,20     | 5,900      | 224,933  | -3,20     | 1194+0.000  | 225,122      | 225,318      | -0,196        | 5,900      | 225,311      | 3,20      | 6,611      | 224,837  |           | 6,611      | 224,837  | -0,474     |
| 6.059         | 224.938  | -0.106     |            |          | -3,20     | 5,900      | 225,044  | -3,20     | 1194+4.102  | 225,233      | 225,420      | -0,187        | 5,900      | 225,422      | 3,20      | 6,536      | 224,998  |           | 6,536      | 224,998  | -0,424     |
| 6.071         | 224.974  | -0.114     |            |          | -3,00     | 5,900      | 225,088  | -3,00     | 1194+5.289  | 225,265      | 225,464      | -0,199        | 5,900      | 225,442      | 3,00      | 6,506      | 225,038  |           | 6,506      | 225,038  | -0,404     |
| 6.070         | 225.020  | -0.114     |            |          | -3,00     | 5,900      | 225,134  | -3,00     | 1194+7.000  | 225,311      | 225,526      | -0,215        | 5,900      | 225,471      | 2,71      | 6,466      | 225,094  |           | 6,466      | 225,094  | -0,377     |
| 6.009         | 225.287  | -0.072     |            |          | -3,00     | 5,900      | 225,359  | -3,00     | 1194+15.502 | 225,536      | 225,808      | -0,272        | 5,900      | 225,612      | 1,28      | 6,292      | 225,351  |           | 6,292      | 225,351  | -0,261     |
| 5.936         | 225.452  | -0.024     |            |          | -3,00     | 5,900      | 225,476  | -3,00     | 1195+0.000  | 225,653      | 225,931      | -0,278        | 5,900      | 225,684      | 0,52      | 6,214      | 225,475  |           | 6,214      | 225,475  | -0,209     |
| 5.929         | 225.585  | 0.029      |            |          | -3,00     | 5,900      | 225,556  | -3,00     | 1195+3.102  | 225,733      | 226,017      | -0,284        | 5,900      | 225,733      | 0,00      | 6,160      | 225,560  |           | 6,160      | 225,560  | -0,173     |
| 6.054         | 225.872  | -0.102     |            |          | -3,00     | 5,900      | 225,974  | -3,00     | 1196+0.000  | 226,151      | 226,432      | -0,281        | 5,900      | 225,983      | -2,85     | 6,058      | 226,142  |           | 6,058      | 226,142  | 0,159      |
| 6.045         | 225.900  | -0.096     |            |          | -3,00     | 5,900      | 225,996  | -3,00     | 1196+0.914  | 226,173      | 226,448      | -0,275        | 5,900      | 225,996      | -3,00     | 6,105      | 226,201  |           | 6,105      | 226,201  | 0,205      |
| 5.925         | 226.463  | 0.025      |            |          | -3,00     | 5,900      | 226,438  | -3,00     | 1197+0.000  | 226,615      | 226,799      | -0,184        | 5,900      | 226,438      | -3,00     | 5,907      | 226,433  |           | 5,907      | 226,433  | -0,005     |
| 6.192         | 227.158  | 0.291      |            |          | -3,00     | 5,900      | 226,867  | -3,00     | 1198+0.000  | 227,044      | 226,926      | 0,118         | 5,900      | 226,867      | -3,00     | 6,139      | 226,707  |           | 6,139      | 226,707  | -0,160     |
| 6.563         | 226.819  | -0.441     |            |          | -3,00     | 5,900      | 227,260  | -3,00     | 1199+0.000  | 227,437      | 227,112      | 0,325         | 5,900      | 227,260      | -3,00     | 6,017      | 227,182  |           | 6,017      | 227,182  | -0,078     |
| 6.230         | 227.400  | -0.220     |            |          | -3,00     | 5,900      | 227,620  | -3,00     | 1200+0.000  | 227,797      | 227,287      | 0,510         | 5,900      | 227,620      | -3,00     | 6,264      | 227,377  |           | 6,264      | 227,377  | -0,243     |
|               |          |            |            |          |           |            |          |           |             |              |              |               |            |              |           |            |          |           |            |          |            |
|               |          |            |            |          |           |            |          |           |             |              |              |               |            |              |           |            |          |           |            |          |            |
|               |          |            |            |          |           |            |          |           |             |              |              |               |            |              |           |            |          |           |            |          |            |
|               |          |            |            |          |           |            |          |           |             |              |              |               |            |              |           |            |          |           |            |          |            |



## **5.0 - NOTAS DE SERVIÇO DE PAVIMENTO ACABADO (PAVIMENTAÇÃO)**

| Nota de Serviço de Pavimento Acabado   |          |                   |          |                  |          |           |            |              |         |              |  |               |  |                  |              |                   |            |          |  |
|--|----------|-------------------|----------|------------------|----------|-----------|------------|--------------|---------|--------------|--|---------------|--|------------------|--------------|-------------------|------------|----------|--|
| Rodovia : RO-010 Lote 01   |          |                   |          |                  |          |           |            |              |         |              |  |               |  |                  |              |                   |            |          |  |
| Lado Esquerdo  |          |                   |          |                  |          |           |            |              |         | Eixo         |  |               |  |                  | Lado Direito |                   |            |          |  |
| Offset   |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca    |            | Cota Projeto |         | Cota Terreno |  | Cota Vermelha |  | Bordo Semi-Pista |              | Bordo Acostamento |            | Offset   |  |
| Afast. (m)   | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |         |              |  |               |  | Afast. (m)       | Cota (m)     | Incl. (%)         | Afast. (m) | Cota (m) |  |
| Entre as estacas 0+0,00 e 136+0,00, o segmento encontra-se pavimentado, Travessia Urbana de Urupá. |          |                   |          |                  |          |           |            |              |         |              |  |               |  |                  |              |                   |            |          |  |
|  |          | 4,000             | 210,397  | 3,000            | 210,427  | -3,00     | 136+0,000  | 210,517      | 210,262 | 0,255        |  |               |  | 3,000            | 210,427      | -3,00             | 4,000      | 210,397  |  |
|  |          | 4,000             | 210,555  | 3,000            | 210,585  | -3,00     | 137+0,000  | 210,675      | 209,938 | 0,737        |  |               |  | 3,000            | 210,585      | -3,00             | 4,000      | 210,555  |  |
|  |          | 4,000             | 210,713  | 3,000            | 210,743  | -3,00     | 138+0,000  | 210,833      | 209,684 | 1,149        |  |               |  | 3,000            | 210,743      | -3,00             | 4,000      | 210,713  |  |
|  |          | 4,000             | 210,872  | 3,000            | 210,902  | -3,00     | 139+0,000  | 210,992      | 209,681 | 1,311        |  |               |  | 3,000            | 210,902      | -3,00             | 4,000      | 210,872  |  |
|  |          | 4,000             | 211,030  | 3,000            | 211,060  | -3,00     | 140+0,000  | 211,150      | 209,741 | 1,409        |  |               |  | 3,000            | 211,060      | -3,00             | 4,000      | 211,030  |  |
|  |          | 4,000             | 211,188  | 3,000            | 211,218  | -3,00     | 141+0,000  | 211,308      | 209,863 | 1,445        |  |               |  | 3,000            | 211,218      | -3,00             | 4,000      | 211,188  |  |
|  |          | 4,000             | 211,347  | 3,000            | 211,377  | -3,00     | 142+0,000  | 211,467      | 210,200 | 1,267        |  |               |  | 3,000            | 211,377      | -3,00             | 4,000      | 211,347  |  |
|  |          | 4,000             | 211,457  | 3,000            | 211,487  | -3,00     | 143+0,000  | 211,577      | 210,638 | 0,939        |  |               |  | 3,000            | 211,487      | -3,00             | 4,000      | 211,457  |  |
|  |          | 4,000             | 211,476  | 3,000            | 211,506  | -3,00     | 143+12,580 | 211,596      | 210,978 | 0,618        |  |               |  | 3,000            | 211,506      | -3,00             | 4,000      | 211,476  |  |
|  |          | 4,000             | 211,469  | 3,000            | 211,499  | -3,00     | 144+0,000  | 211,589      | 211,172 | 0,417        |  |               |  | 3,000            | 211,499      | -3,00             | 4,000      | 211,469  |  |
|  |          | 4,000             | 211,384  | 3,000            | 211,414  | -3,00     | 145+0,000  | 211,504      | 211,935 | -0,431       |  |               |  | 3,000            | 211,414      | -3,00             | 4,000      | 211,384  |  |
|  |          | 4,000             | 211,203  | 3,000            | 211,233  | -3,00     | 146+0,000  | 211,323      | 212,662 | -1,339       |  |               |  | 3,000            | 211,233      | -3,00             | 4,000      | 211,203  |  |
|  |          | 4,000             | 210,924  | 3,000            | 210,954  | -3,00     | 147+0,000  | 211,044      | 212,857 | -1,813       |  |               |  | 3,000            | 210,954      | -3,00             | 4,000      | 210,924  |  |
|  |          | 4,000             | 210,520  | 3,000            | 210,550  | -3,00     | 148+0,000  | 210,640      | 212,375 | -1,735       |  |               |  | 3,000            | 210,550      | -3,00             | 4,000      | 210,520  |  |
|  |          | 4,000             | 209,964  | 3,000            | 209,994  | -3,00     | 149+0,000  | 210,084      | 211,214 | -1,130       |  |               |  | 3,000            | 209,994      | -3,00             | 4,000      | 209,964  |  |
|  |          | 4,000             | 209,257  | 3,000            | 209,287  | -3,00     | 150+0,000  | 209,377      | 209,745 | -0,368       |  |               |  | 3,000            | 209,287      | -3,00             | 4,000      | 209,257  |  |
|  |          | 4,000             | 208,398  | 3,000            | 208,428  | -3,00     | 151+0,000  | 208,518      | 208,250 | 0,268        |  |               |  | 3,000            | 208,428      | -3,00             | 4,000      | 208,398  |  |
|  |          | 4,000             | 207,463  | 3,000            | 207,493  | -3,00     | 152+0,000  | 207,583      | 206,934 | 0,649        |  |               |  | 3,000            | 207,493      | -3,00             | 4,000      | 207,463  |  |
|  |          | 4,000             | 206,528  | 3,000            | 206,558  | -3,00     | 153+0,000  | 206,648      | 205,976 | 0,672        |  |               |  | 3,000            | 206,558      | -3,00             | 4,000      | 206,528  |  |
|  |          | 4,000             | 205,593  | 3,000            | 205,623  | -3,00     | 154+0,000  | 205,713      | 204,835 | 0,878        |  |               |  | 3,000            | 205,623      | -3,00             | 4,000      | 205,593  |  |
|  |          | 4,000             | 204,657  | 3,000            | 204,687  | -3,00     | 155+0,000  | 204,777      | 203,744 | 1,033        |  |               |  | 3,000            | 204,687      | -3,00             | 4,000      | 204,657  |  |
|  |          | 4,000             | 203,722  | 3,000            | 203,752  | -3,00     | 156+0,000  | 203,842      | 202,613 | 1,229        |  |               |  | 3,000            | 203,752      | -3,00             | 4,000      | 203,722  |  |
|  |          | 4,000             | 202,787  | 3,000            | 202,817  | -3,00     | 157+0,000  | 202,907      | 201,491 | 1,416        |  |               |  | 3,000            | 202,817      | -3,00             | 4,000      | 202,787  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |           |              |              | Eixo          |                  |          |                   | Lado Direito |          |         |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|-----------|--------------|--------------|---------------|------------------|----------|-------------------|--------------|----------|---------|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca    | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |              | Offset   |         |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |           |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)          | Afast. (m)   | Cota (m) |         |  |  |  |
| Afast. (m)    | Cota (m) |                   |          |                  |          |          |           |              |              |               |                  |          |                   |              |          |         |  |  |  |
|               |          | 4,000             | 201,852  | 3,000            | 201,882  | -3,00    | 158+0.000 | 201,972      | 200,227      | 1,745         |                  | 3,000    | 201,882           | -3,00        | 4,000    | 201,852 |  |  |  |
|               |          | 4,000             | 200,917  | 3,000            | 200,947  | -3,00    | 159+0.000 | 201,037      | 198,897      | 2,140         |                  | 3,000    | 200,947           | -3,00        | 4,000    | 200,917 |  |  |  |
|               |          | 4,000             | 199,982  | 3,000            | 200,012  | -3,00    | 160+0.000 | 200,102      | 198,313      | 1,789         |                  | 3,000    | 200,012           | -3,00        | 4,000    | 199,982 |  |  |  |
|               |          | 4,000             | 199,138  | 3,000            | 199,168  | -3,00    | 161+0.000 | 199,258      | 197,521      | 1,737         |                  | 3,000    | 199,168           | -3,00        | 4,000    | 199,138 |  |  |  |
|               |          | 4,000             | 198,475  | 3,000            | 198,505  | -3,00    | 162+0.000 | 198,595      | 197,188      | 1,407         |                  | 3,000    | 198,505           | -3,00        | 4,000    | 198,475 |  |  |  |
|               |          | 4,000             | 197,995  | 3,000            | 198,025  | -3,00    | 163+0.000 | 198,115      | 197,192      | 0,923         |                  | 3,000    | 198,025           | -3,00        | 4,000    | 197,995 |  |  |  |
|               |          | 4,000             | 197,697  | 3,000            | 197,727  | -3,00    | 164+0.000 | 197,817      | 196,977      | 0,840         |                  | 3,000    | 197,727           | -3,00        | 4,000    | 197,697 |  |  |  |
|               |          | 4,000             | 197,581  | 3,000            | 197,611  | -3,00    | 165+0.000 | 197,701      | 196,777      | 0,924         |                  | 3,000    | 197,611           | -3,00        | 4,000    | 197,581 |  |  |  |
|               |          | 4,000             | 197,579  | 3,000            | 197,609  | -3,00    | 165+2.772 | 197,699      | 196,810      | 0,889         |                  | 3,000    | 197,609           | -3,00        | 4,000    | 197,579 |  |  |  |
|               |          | 4,000             | 197,647  | 3,000            | 197,677  | -3,00    | 166+0.000 | 197,767      | 196,913      | 0,854         |                  | 3,000    | 197,677           | -3,00        | 4,000    | 197,647 |  |  |  |
|               |          | 4,000             | 197,894  | 3,000            | 197,924  | -3,00    | 167+0.000 | 198,014      | 197,226      | 0,788         |                  | 3,000    | 197,924           | -3,00        | 4,000    | 197,894 |  |  |  |
|               |          | 4,000             | 198,324  | 3,000            | 198,354  | -3,00    | 168+0.000 | 198,444      | 197,682      | 0,762         |                  | 3,000    | 198,354           | -3,00        | 4,000    | 198,324 |  |  |  |
|               |          | 4,000             | 198,936  | 3,000            | 198,966  | -3,00    | 169+0.000 | 199,056      | 197,866      | 1,190         |                  | 3,000    | 198,966           | -3,00        | 4,000    | 198,936 |  |  |  |
|               |          | 4,000             | 199,729  | 3,000            | 199,759  | -3,00    | 170+0.000 | 199,849      | 198,397      | 1,452         |                  | 3,000    | 199,759           | -3,00        | 4,000    | 199,729 |  |  |  |
|               |          | 4,000             | 200,705  | 3,000            | 200,735  | -3,00    | 171+0.000 | 200,825      | 199,234      | 1,591         |                  | 3,000    | 200,735           | -3,00        | 4,000    | 200,705 |  |  |  |
|               |          | 4,000             | 201,772  | 3,000            | 201,802  | -3,00    | 172+0.000 | 201,892      | 200,341      | 1,551         |                  | 3,000    | 201,802           | -3,00        | 4,000    | 201,772 |  |  |  |
|               |          | 4,000             | 202,838  | 3,000            | 202,868  | -3,00    | 173+0.000 | 202,958      | 201,640      | 1,318         |                  | 3,000    | 202,868           | -3,00        | 4,000    | 202,838 |  |  |  |
|               |          | 4,000             | 203,905  | 3,000            | 203,935  | -3,00    | 174+0.000 | 204,025      | 202,815      | 1,210         |                  | 3,000    | 203,935           | -3,00        | 4,000    | 203,905 |  |  |  |
|               |          | 4,000             | 204,972  | 3,000            | 205,002  | -3,00    | 175+0.000 | 205,092      | 204,038      | 1,054         |                  | 3,000    | 205,002           | -3,00        | 4,000    | 204,972 |  |  |  |
|               |          | 4,000             | 206,038  | 3,000            | 206,068  | -3,00    | 176+0.000 | 206,158      | 205,264      | 0,894         |                  | 3,000    | 206,068           | -3,00        | 4,000    | 206,038 |  |  |  |
|               |          | 4,000             | 207,105  | 3,000            | 207,135  | -3,00    | 177+0.000 | 207,225      | 206,879      | 0,346         |                  | 3,000    | 207,135           | -3,00        | 4,000    | 207,105 |  |  |  |
|               |          | 4,000             | 208,172  | 3,000            | 208,202  | -3,00    | 178+0.000 | 208,292      | 208,357      | -0,065        |                  | 3,000    | 208,202           | -3,00        | 4,000    | 208,172 |  |  |  |
|               |          | 4,000             | 209,238  | 3,000            | 209,268  | -3,00    | 179+0.000 | 209,358      | 209,803      | -0,445        |                  | 3,000    | 209,268           | -3,00        | 4,000    | 209,238 |  |  |  |
|               |          | 4,000             | 210,305  | 3,000            | 210,335  | -3,00    | 180+0.000 | 210,425      | 210,758      | -0,333        |                  | 3,000    | 210,335           | -3,00        | 4,000    | 210,305 |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |           |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |            |          |            |
|---------------|----------|-------------------|----------|------------------|----------|-----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|------------|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |            |
| Afast. (m)    | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) |
|               |          | 4,000             | 211,372  | 3,000            | 211,402  | -3,00     | 181+0.000  | 211,492      | 211,569      | -0,077        | 3,000            | 211,402  | -3,00             | 4,000      | 211,372  |            |          |            |
|               |          | 4,000             | 212,438  | 3,000            | 212,468  | -3,00     | 182+0.000  | 212,558      | 212,588      | -0,030        | 3,000            | 212,468  | -3,00             | 4,000      | 212,438  |            |          |            |
|               |          | 4,000             | 213,505  | 3,000            | 213,535  | -3,00     | 183+0.000  | 213,625      | 212,182      | 1,443         | 3,000            | 213,535  | -3,00             | 4,000      | 213,505  |            |          |            |
|               |          | 4,000             | 214,572  | 3,000            | 214,602  | -3,00     | 184+0.000  | 214,692      | 212,947      | 1,745         | 3,000            | 214,602  | -3,00             | 4,000      | 214,572  |            |          |            |
|               |          | 4,000             | 215,568  | 3,000            | 215,598  | -3,00     | 185+0.000  | 215,688      | 214,256      | 1,432         | 3,000            | 215,598  | -3,00             | 4,000      | 215,568  |            |          |            |
|               |          | 4,000             | 216,422  | 3,000            | 216,452  | -3,00     | 186+0.000  | 216,542      | 215,905      | 0,637         | 3,000            | 216,452  | -3,00             | 4,000      | 216,422  |            |          |            |
|               |          | 4,000             | 217,136  | 3,000            | 217,166  | -3,00     | 187+0.000  | 217,256      | 217,199      | 0,057         | 3,000            | 217,166  | -3,00             | 4,000      | 217,136  |            |          |            |
|               |          | 4,000             | 217,707  | 3,000            | 217,737  | -3,00     | 188+0.000  | 217,827      | 218,137      | -0,310        | 3,000            | 217,737  | -3,00             | 4,000      | 217,707  |            |          |            |
|               |          | 4,000             | 218,069  | 3,000            | 218,099  | -3,00     | 188+16.299 | 218,189      | 218,235      | -0,046        | 3,000            | 218,099  | -3,00             | 4,000      | 218,069  |            |          |            |
|               |          | 4,000             | 218,138  | 3,000            | 218,168  | -3,00     | 189+0.000  | 218,258      | 218,196      | 0,062         | 3,000            | 218,168  | -3,00             | 4,000      | 218,138  |            |          |            |
|               |          | 4,000             | 218,427  | 3,000            | 218,457  | -3,00     | 190+0.000  | 218,547      | 218,131      | 0,416         | 3,000            | 218,457  | -3,00             | 4,000      | 218,427  |            |          |            |
|               |          | 4,000             | 218,574  | 3,000            | 218,604  | -3,00     | 191+0.000  | 218,694      | 217,913      | 0,781         | 3,000            | 218,604  | -3,00             | 4,000      | 218,574  |            |          |            |
|               |          | 4,000             | 218,595  | 3,000            | 218,625  | -3,00     | 191+10.881 | 218,715      | 217,809      | 0,906         | 3,000            | 218,625  | -3,00             | 4,000      | 218,595  |            |          |            |
|               |          | 4,000             | 218,581  | 3,000            | 218,611  | -3,00     | 192+0.000  | 218,701      | 217,787      | 0,914         | 3,000            | 218,611  | -3,00             | 4,000      | 218,581  |            |          |            |
|               |          | 4,000             | 218,445  | 3,000            | 218,475  | -3,00     | 193+0.000  | 218,565      | 217,680      | 0,885         | 3,000            | 218,475  | -3,00             | 4,000      | 218,445  |            |          |            |
|               |          | 4,000             | 218,169  | 3,000            | 218,199  | -3,00     | 194+0.000  | 218,289      | 217,538      | 0,751         | 3,000            | 218,199  | -3,00             | 4,000      | 218,169  |            |          |            |
|               |          | 4,000             | 217,751  | 3,000            | 217,781  | -3,00     | 195+0.000  | 217,871      | 217,246      | 0,625         | 3,000            | 217,781  | -3,00             | 4,000      | 217,751  |            |          |            |
|               |          | 4,000             | 217,192  | 3,000            | 217,222  | -3,00     | 196+0.000  | 217,312      | 216,551      | 0,761         | 3,000            | 217,222  | -3,00             | 4,000      | 217,192  |            |          |            |
|               |          | 4,000             | 216,491  | 3,000            | 216,521  | -3,00     | 197+0.000  | 216,611      | 215,655      | 0,956         | 3,000            | 216,521  | -3,00             | 4,000      | 216,491  |            |          |            |
|               |          | 4,000             | 215,649  | 3,000            | 215,679  | -3,00     | 198+0.000  | 215,769      | 214,708      | 1,061         | 3,000            | 215,679  | -3,00             | 4,000      | 215,649  |            |          |            |
|               |          | 4,000             | 214,736  | 3,000            | 214,766  | -3,00     | 199+0.000  | 214,856      | 213,635      | 1,221         | 3,000            | 214,766  | -3,00             | 4,000      | 214,736  |            |          |            |
|               |          | 4,000             | 213,823  | 3,000            | 213,853  | -3,00     | 200+0.000  | 213,943      | 212,867      | 1,076         | 3,000            | 213,853  | -3,00             | 4,000      | 213,823  |            |          |            |
|               |          | 4,000             | 212,910  | 3,000            | 212,940  | -3,00     | 201+0.000  | 213,030      | 211,942      | 1,088         | 3,000            | 212,940  | -3,00             | 4,000      | 212,910  |            |          |            |
|               |          | 4,000             | 211,997  | 3,000            | 212,027  | -3,00     | 202+0.000  | 212,117      | 210,972      | 1,145         | 3,000            | 212,027  | -3,00             | 4,000      | 211,997  |            |          |            |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |            |                   |          |                  |          |           |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |            |          |  |
|---------------|------------|-------------------|----------|------------------|----------|-----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|--|
| Offset        |            | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |  |
|               |            | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |  |
|               | Afast. (m) |                   | Cota (m) |                  |          |           |            |              |              |               |                  |          |                   |            |          |            |          |  |
|               |            | 4,000             | 211,085  | 3,000            | 211,115  | -3,00     | 203+0.000  | 211,205      | 209,982      | 1,223         |                  | 3,000    | 211,115           | -3,00      | 4,000    | 211,085    |          |  |
|               |            | 4,000             | 210,229  | 3,000            | 210,259  | -3,00     | 204+0.000  | 210,349      | 209,164      | 1,185         |                  | 3,000    | 210,259           | -3,00      | 4,000    | 210,229    |          |  |
|               |            | 4,000             | 209,489  | 3,000            | 209,519  | -3,00     | 205+0.000  | 209,609      | 208,537      | 1,072         |                  | 3,000    | 209,519           | -3,00      | 4,000    | 209,489    |          |  |
|               |            | 4,000             | 208,863  | 3,000            | 208,893  | -3,00     | 206+0.000  | 208,983      | 207,945      | 1,038         |                  | 3,000    | 208,893           | -3,00      | 4,000    | 208,863    |          |  |
|               |            | 4,000             | 208,351  | 3,000            | 208,381  | -3,00     | 207+0.000  | 208,471      | 207,396      | 1,075         |                  | 3,000    | 208,381           | -3,00      | 4,000    | 208,351    |          |  |
|               |            | 4,000             | 207,955  | 3,000            | 207,985  | -3,00     | 208+0.000  | 208,075      | 206,872      | 1,203         |                  | 3,000    | 207,985           | -3,00      | 4,000    | 207,955    |          |  |
|               |            | 4,000             | 207,673  | 3,000            | 207,703  | -3,00     | 209+0.000  | 207,793      | 206,703      | 1,090         |                  | 3,000    | 207,703           | -3,00      | 4,000    | 207,673    |          |  |
|               |            | 4,000             | 207,506  | 3,000            | 207,536  | -3,00     | 210+0.000  | 207,626      | 206,745      | 0,881         |                  | 3,000    | 207,536           | -3,00      | 4,000    | 207,506    |          |  |
|               |            | 4,000             | 207,454  | 3,000            | 207,484  | -3,00     | 210+19.087 | 207,574      | 206,856      | 0,718         |                  | 3,000    | 207,484           | -3,00      | 4,000    | 207,454    |          |  |
|               |            | 4,000             | 207,454  | 3,000            | 207,484  | -3,00     | 211+0.000  | 207,574      | 206,878      | 0,696         |                  | 3,000    | 207,484           | -3,00      | 4,000    | 207,454    |          |  |
|               |            | 4,000             | 207,517  | 3,000            | 207,547  | -3,00     | 212+0.000  | 207,637      | 206,865      | 0,772         |                  | 3,000    | 207,547           | -3,00      | 4,000    | 207,517    |          |  |
|               |            | 4,000             | 207,694  | 3,000            | 207,724  | -3,00     | 213+0.000  | 207,814      | 206,938      | 0,876         |                  | 3,000    | 207,724           | -3,00      | 4,000    | 207,694    |          |  |
|               |            | 4,000             | 207,986  | 3,000            | 208,016  | -3,00     | 214+0.000  | 208,106      | 207,239      | 0,867         |                  | 3,000    | 208,016           | -3,00      | 4,000    | 207,986    |          |  |
|               |            | 4,000             | 208,324  | 3,000            | 208,354  | -3,00     | 214+16.959 | 208,444      | 207,313      | 1,131         |                  | 3,000    | 208,354           | -3,00      | 4,000    | 208,324    |          |  |
|               |            | 4,130             | 208,389  | 3,130            | 208,419  | -3,00     | 215+0.000  | 208,513      | 207,348      | 1,165         |                  | 3,130    | 208,419           | -3,00      | 4,130    | 208,389    |          |  |
|               |            | 4,130             | 208,637  | 3,130            | 208,667  | -3,00     | 215+10.029 | 208,761      | 207,613      | 1,148         |                  | 3,130    | 208,667           | -3,00      | 4,130    | 208,637    |          |  |
|               |            | 4,987             | 208,885  | 3,987            | 208,915  | -3,00     | 216+0.000  | 209,035      | 207,948      | 1,087         |                  | 3,987    | 208,915           | -3,00      | 4,987    | 208,885    |          |  |
|               |            | 4,987             | 209,185  | 3,987            | 209,215  | -3,00     | 216+9.878  | 209,335      | 208,223      | 1,112         |                  | 3,987    | 209,215           | -3,00      | 4,987    | 209,185    |          |  |
|               |            | 5,845             | 209,496  | 4,845            | 209,526  | -3,00     | 217+0.000  | 209,671      | 208,499      | 1,172         |                  | 4,845    | 209,526           | -3,00      | 5,845    | 209,496    |          |  |
|               |            | 5,845             | 209,897  | 4,845            | 209,927  | -3,00     | 217+11.055 | 210,072      | 208,988      | 1,084         |                  | 4,845    | 209,927           | -3,00      | 5,845    | 209,897    |          |  |
|               |            | 6,702             | 210,222  | 5,702            | 210,252  | -3,00     | 218+0.000  | 210,423      | 209,473      | 0,950         |                  | 5,702    | 210,252           | -3,00      | 6,702    | 210,222    |          |  |
|               |            | 6,702             | 210,503  | 5,702            | 210,533  | -3,00     | 218+6.959  | 210,704      | 209,841      | 0,863         |                  | 5,702    | 210,533           | -3,00      | 6,702    | 210,503    |          |  |
|               |            | 7,000             | 211,021  | 6,000            | 211,051  | -3,00     | 219+0.000  | 211,231      | 210,402      | 0,829         |                  | 6,000    | 211,051           | -3,00      | 7,000    | 211,021    |          |  |
|               |            | 7,000             | 211,830  | 6,000            | 211,860  | -3,00     | 220+0.000  | 212,040      | 211,067      | 0,973         |                  | 6,000    | 211,860           | -3,00      | 7,000    | 211,830    |          |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |        |              |              |               | Eixo             |            |                   |          | Lado Direito |          |  |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------------|----------|--------------|----------|--|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |          | Offset       |          |  |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Ind. (%)         | Afast. (m) | Cota (m)          | Ind. (%) | Afast. (m)   | Cota (m) |  |  |  |  |
| Afast. (m)    | Cota (m) |                   |          |                  |          |        |              |              |               |                  |            |                   |          |              |          |  |  |  |  |
|               |          | 7,000             | 212,072  | 6,000            | 212,102  | -3,00  | 220+6.000    | 212,282      | 211,357       | 0,925            |            |                   |          | 7,000        | 212,072  |  |  |  |  |
|               |          | 7,000             | 212,114  | 6,000            | 212,144  | -3,00  | 220+7.041    | 212,324      | 211,409       | 0,915            |            |                   |          | 7,000        | 212,114  |  |  |  |  |
|               |          | 7,000             | 212,373  | 6,000            | 212,403  | -3,00  | 220+13.617   | 212,583      | 211,675       | 0,908            |            |                   |          | 7,000        | 212,373  |  |  |  |  |
|               |          | 6,445             | 212,632  | 5,445            | 212,662  | -3,00  | 221+0.000    | 212,825      | 211,839       | 0,986            |            |                   |          | 6,445        | 212,632  |  |  |  |  |
|               |          | 6,445             | 212,985  | 5,445            | 213,015  | -3,00  | 221+9.843    | 213,178      | 212,087       | 1,091            |            |                   |          | 6,445        | 212,985  |  |  |  |  |
|               |          | 5,587             | 213,350  | 4,587            | 213,380  | -3,00  | 222+0.000    | 213,518      | 212,539       | 0,979            |            |                   |          | 5,587        | 213,350  |  |  |  |  |
|               |          | 5,587             | 213,649  | 4,587            | 213,679  | -3,00  | 222+9.610    | 213,817      | 213,035       | 0,782            |            |                   |          | 5,587        | 213,649  |  |  |  |  |
|               |          | 4,730             | 213,974  | 3,730            | 214,004  | -3,00  | 223+0.000    | 214,116      | 213,330       | 0,786            |            |                   |          | 4,730        | 213,974  |  |  |  |  |
|               |          | 4,730             | 214,207  | 3,730            | 214,237  | -3,00  | 223+8.821    | 214,349      | 213,608       | 0,741            |            |                   |          | 4,730        | 214,207  |  |  |  |  |
|               |          | 4,730             | 214,407  | 3,730            | 214,437  | -3,00  | 223+17.041   | 214,549      | 213,970       | 0,579            |            |                   |          | 4,730        | 214,407  |  |  |  |  |
|               |          | 4,000             | 214,497  | 3,000            | 214,527  | -3,00  | 224+0.000    | 214,617      | 214,110       | 0,507            |            |                   |          | 4,000        | 214,497  |  |  |  |  |
|               |          | 4,000             | 214,903  | 3,000            | 214,933  | -3,00  | 225+0.000    | 215,023      | 214,716       | 0,307            |            |                   |          | 4,000        | 214,903  |  |  |  |  |
|               |          | 4,000             | 215,213  | 3,000            | 215,243  | -3,00  | 226+0.000    | 215,333      | 215,322       | 0,011            |            |                   |          | 4,000        | 215,213  |  |  |  |  |
|               |          | 4,000             | 215,426  | 3,000            | 215,456  | -3,00  | 227+0.000    | 215,546      | 216,039       | -0,493           |            |                   |          | 4,000        | 215,426  |  |  |  |  |
|               |          | 4,000             | 215,544  | 3,000            | 215,574  | -3,00  | 228+0.000    | 215,664      | 216,419       | -0,755           |            |                   |          | 4,000        | 215,544  |  |  |  |  |
|               |          | 4,000             | 215,570  | 3,000            | 215,600  | -3,00  | 228+14.592   | 215,690      | 216,244       | -0,554           |            |                   |          | 4,000        | 215,570  |  |  |  |  |
|               |          | 4,000             | 215,566  | 3,000            | 215,596  | -3,00  | 229+0.000    | 215,686      | 216,202       | -0,516           |            |                   |          | 4,000        | 215,566  |  |  |  |  |
|               |          | 4,000             | 215,493  | 3,000            | 215,523  | -3,00  | 230+0.000    | 215,613      | 216,434       | -0,821           |            |                   |          | 4,000        | 215,493  |  |  |  |  |
|               |          | 4,000             | 215,323  | 3,000            | 215,353  | -3,00  | 231+0.000    | 215,443      | 215,651       | -0,208           |            |                   |          | 4,000        | 215,323  |  |  |  |  |
|               |          | 4,000             | 215,057  | 3,000            | 215,087  | -3,00  | 232+0.000    | 215,177      | 215,149       | 0,028            |            |                   |          | 4,000        | 215,057  |  |  |  |  |
|               |          | 4,000             | 214,695  | 3,000            | 214,725  | -3,00  | 233+0.000    | 214,815      | 214,172       | 0,643            |            |                   |          | 4,000        | 214,695  |  |  |  |  |
|               |          | 4,000             | 214,238  | 3,000            | 214,268  | -3,00  | 234+0.000    | 214,358      | 213,696       | 0,662            |            |                   |          | 4,000        | 214,238  |  |  |  |  |
|               |          | 4,000             | 214,082  | 3,000            | 214,112  | -3,00  | 234+6.000    | 214,202      | 213,413       | 0,789            |            |                   |          | 4,000        | 214,082  |  |  |  |  |
|               |          | 4,000             | 213,708  | 3,000            | 213,738  | -3,00  | 235+0.000    | 213,828      | 212,677       | 1,151            |            |                   |          | 4,000        | 213,708  |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |           |            |              |              | Eixo          |                  |          |                   | Lado Direito |          |            |          |  |  |
|---------------|----------|-------------------|----------|------------------|----------|-----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|--------------|----------|------------|----------|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |              | Offset   |            |          |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m)   | Cota (m) | Afast. (m) | Cota (m) |  |  |
| Afast. (m)    | Cota (m) |                   |          |                  |          |           |            |              |              |               |                  |          |                   |              |          |            |          |  |  |
|               |          | 4,000             | 213,174  | 3,000            | 213,204  | -3,00     | 236+0.000  | 213,294      | 212,104      | 1,190         |                  |          |                   | 4,000        | 213,174  |            |          |  |  |
|               |          | 4,000             | 212,639  | 3,000            | 212,669  | -3,00     | 237+0.000  | 212,759      | 211,533      | 1,226         |                  |          |                   | 4,000        | 212,639  |            |          |  |  |
|               |          | 4,000             | 212,105  | 3,000            | 212,135  | -3,00     | 238+0.000  | 212,225      | 210,715      | 1,510         |                  |          |                   | 4,000        | 212,105  |            |          |  |  |
|               |          | 4,000             | 211,571  | 3,000            | 211,601  | -3,00     | 239+0.000  | 211,691      | 210,430      | 1,261         |                  |          |                   | 4,000        | 211,571  |            |          |  |  |
|               |          | 4,000             | 211,036  | 3,000            | 211,066  | -3,00     | 240+0.000  | 211,156      | 210,184      | 0,972         |                  |          |                   | 4,000        | 211,036  |            |          |  |  |
|               |          | 4,000             | 210,502  | 3,000            | 210,532  | -3,00     | 241+0.000  | 210,622      | 209,719      | 0,903         |                  |          |                   | 4,000        | 210,502  |            |          |  |  |
|               |          | 4,000             | 209,968  | 3,000            | 209,998  | -3,00     | 242+0.000  | 210,088      | 209,245      | 0,843         |                  |          |                   | 4,000        | 209,968  |            |          |  |  |
|               |          | 4,000             | 209,433  | 3,000            | 209,463  | -3,00     | 243+0.000  | 209,553      | 208,676      | 0,877         |                  |          |                   | 4,000        | 209,433  |            |          |  |  |
|               |          | 4,000             | 208,899  | 3,000            | 208,929  | -3,00     | 244+0.000  | 209,019      | 208,158      | 0,861         |                  |          |                   | 4,000        | 208,899  |            |          |  |  |
|               |          | 4,000             | 208,365  | 3,000            | 208,395  | -3,00     | 245+0.000  | 208,485      | 207,637      | 0,848         |                  |          |                   | 4,000        | 208,365  |            |          |  |  |
|               |          | 4,000             | 207,831  | 3,000            | 207,861  | -3,00     | 246+0.000  | 207,951      | 207,063      | 0,888         |                  |          |                   | 4,000        | 207,831  |            |          |  |  |
|               |          | 4,000             | 207,296  | 3,000            | 207,326  | -3,00     | 247+0.000  | 207,416      | 206,665      | 0,751         |                  |          |                   | 4,000        | 207,296  |            |          |  |  |
|               |          | 4,000             | 206,762  | 3,000            | 206,792  | -3,00     | 248+0.000  | 206,882      | 206,203      | 0,679         |                  |          |                   | 4,000        | 206,762  |            |          |  |  |
|               |          | 4,000             | 206,228  | 3,000            | 206,258  | -3,00     | 249+0.000  | 206,348      | 205,383      | 0,965         |                  |          |                   | 4,000        | 206,228  |            |          |  |  |
|               |          | 4,000             | 205,693  | 3,000            | 205,723  | -3,00     | 250+0.000  | 205,813      | 205,133      | 0,680         |                  |          |                   | 4,000        | 205,693  |            |          |  |  |
|               |          | 4,000             | 205,400  | 3,000            | 205,430  | -3,00     | 250+11.000 | 205,520      | 205,021      | 0,499         |                  |          |                   | 4,000        | 205,400  |            |          |  |  |
|               |          | 4,000             | 205,152  | 3,000            | 205,182  | -3,00     | 251+0.000  | 205,272      | 204,518      | 0,754         |                  |          |                   | 4,000        | 205,152  |            |          |  |  |
|               |          | 4,000             | 204,546  | 3,000            | 204,576  | -3,00     | 252+0.000  | 204,666      | 204,125      | 0,541         |                  |          |                   | 4,000        | 204,546  |            |          |  |  |
|               |          | 4,000             | 203,866  | 3,000            | 203,896  | -3,00     | 253+0.000  | 203,986      | 203,546      | 0,440         |                  |          |                   | 4,000        | 203,866  |            |          |  |  |
|               |          | 4,000             | 203,121  | 3,000            | 203,151  | -3,00     | 254+0.000  | 203,241      | 202,856      | 0,385         |                  |          |                   | 4,000        | 203,121  |            |          |  |  |
|               |          | 4,000             | 202,323  | 3,000            | 202,353  | -3,00     | 255+0.000  | 202,443      | 201,977      | 0,466         |                  |          |                   | 4,000        | 202,323  |            |          |  |  |
|               |          | 4,000             | 201,474  | 3,000            | 201,504  | -3,00     | 256+0.000  | 201,594      | 200,989      | 0,605         |                  |          |                   | 4,000        | 201,474  |            |          |  |  |
|               |          | 4,000             | 201,430  | 3,000            | 201,460  | -3,00     | 256+1.000  | 201,550      | 200,927      | 0,623         |                  |          |                   | 4,000        | 201,430  |            |          |  |  |
|               |          | 4,000             | 200,597  | 3,000            | 200,627  | -3,00     | 257+0.000  | 200,717      | 199,747      | 0,970         |                  |          |                   | 4,000        | 200,597  |            |          |  |  |



## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |              |              | Eixo          |                  |          |           | Lado Direito      |          |            |          |  |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-----------|-------------------|----------|------------|----------|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          |           | Bordo Acostamento |          | Offset     |          |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%) | Afast. (m)        | Cota (m) | Afast. (m) | Cota (m) |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 199,938  | 3,000            | 199,968  | -3,00    | 257+15.000 | 200,058      | 198,933      | 1,125         | 3,000            | 199,968  | -3,00     | 4,000             | 199,938  |            |          |  |  |
|               |          | 4,000             | 199,722  | 3,000            | 199,752  | -3,00    | 258+0.000  | 199,842      | 198,633      | 1,209         | 3,000            | 199,752  | -3,00     | 4,000             | 199,722  |            |          |  |  |
|               |          | 4,000             | 198,923  | 3,000            | 198,953  | -3,00    | 259+0.000  | 199,043      | 197,935      | 1,108         | 3,000            | 198,953  | -3,00     | 4,000             | 198,923  |            |          |  |  |
|               |          | 4,000             | 198,230  | 3,000            | 198,260  | -3,00    | 260+0.000  | 198,350      | 197,064      | 1,286         | 3,000            | 198,260  | -3,00     | 4,000             | 198,230  |            |          |  |  |
|               |          | 4,000             | 197,642  | 3,000            | 197,672  | -3,00    | 261+0.000  | 197,762      | 196,427      | 1,335         | 3,000            | 197,672  | -3,00     | 4,000             | 197,642  |            |          |  |  |
|               |          | 4,000             | 197,159  | 3,000            | 197,189  | -3,00    | 262+0.000  | 197,279      | 196,212      | 1,067         | 3,000            | 197,189  | -3,00     | 4,000             | 197,159  |            |          |  |  |
|               |          | 4,000             | 196,781  | 3,000            | 196,811  | -3,00    | 263+0.000  | 196,901      | 195,772      | 1,129         | 3,000            | 196,811  | -3,00     | 4,000             | 196,781  |            |          |  |  |
|               |          | 4,000             | 196,509  | 3,000            | 196,539  | -3,00    | 264+0.000  | 196,629      | 195,562      | 1,067         | 3,000            | 196,539  | -3,00     | 4,000             | 196,509  |            |          |  |  |
|               |          | 4,000             | 196,342  | 3,000            | 196,372  | -3,00    | 265+0.000  | 196,462      | 195,302      | 1,160         | 3,000            | 196,372  | -3,00     | 4,000             | 196,342  |            |          |  |  |
|               |          | 4,000             | 196,280  | 3,000            | 196,310  | -3,00    | 266+0.000  | 196,400      | 195,266      | 1,134         | 3,000            | 196,310  | -3,00     | 4,000             | 196,280  |            |          |  |  |
|               |          | 4,000             | 196,280  | 3,000            | 196,310  | -3,00    | 266+1.712  | 196,400      | 195,277      | 1,123         | 3,000            | 196,310  | -3,00     | 4,000             | 196,280  |            |          |  |  |
|               |          | 4,000             | 196,303  | 3,000            | 196,333  | -3,00    | 266+15.000 | 196,423      | 195,360      | 1,063         | 3,000            | 196,333  | -3,00     | 4,000             | 196,303  |            |          |  |  |
|               |          | 4,000             | 196,321  | 3,000            | 196,351  | -3,00    | 267+0.000  | 196,441      | 195,339      | 1,102         | 3,000            | 196,351  | -3,00     | 4,000             | 196,321  |            |          |  |  |
|               |          | 4,000             | 196,391  | 3,000            | 196,421  | -3,00    | 268+0.000  | 196,511      | 195,230      | 1,281         | 3,000            | 196,421  | -3,00     | 4,000             | 196,391  |            |          |  |  |
|               |          | 4,000             | 196,461  | 3,000            | 196,491  | -3,00    | 269+0.000  | 196,581      | 195,067      | 1,514         | 3,000            | 196,491  | -3,00     | 4,000             | 196,461  |            |          |  |  |
|               |          | 4,000             | 196,530  | 3,000            | 196,560  | -3,00    | 270+0.000  | 196,650      | 195,036      | 1,614         | 3,000            | 196,560  | -3,00     | 4,000             | 196,530  |            |          |  |  |
|               |          | 4,000             | 196,600  | 3,000            | 196,630  | -3,00    | 271+0.000  | 196,720      | 195,114      | 1,606         | 3,000            | 196,630  | -3,00     | 4,000             | 196,600  |            |          |  |  |
|               |          | 4,000             | 196,670  | 3,000            | 196,700  | -3,00    | 272+0.000  | 196,790      | 195,109      | 1,681         | 3,000            | 196,700  | -3,00     | 4,000             | 196,670  |            |          |  |  |
|               |          | 4,000             | 196,740  | 3,000            | 196,770  | -3,00    | 273+0.000  | 196,860      | 195,116      | 1,744         | 3,000            | 196,770  | -3,00     | 4,000             | 196,740  |            |          |  |  |
|               |          | 4,000             | 196,810  | 3,000            | 196,840  | -3,00    | 274+0.000  | 196,930      | 195,070      | 1,860         | 3,000            | 196,840  | -3,00     | 4,000             | 196,810  |            |          |  |  |
|               |          | 4,000             | 196,880  | 3,000            | 196,910  | -3,00    | 275+0.000  | 197,000      | 195,018      | 1,982         | 3,000            | 196,910  | -3,00     | 4,000             | 196,880  |            |          |  |  |
|               |          | 4,000             | 196,950  | 3,000            | 196,980  | -3,00    | 276+0.000  | 197,070      | 195,208      | 1,862         | 3,000            | 196,980  | -3,00     | 4,000             | 196,950  |            |          |  |  |
|               |          | 4,000             | 197,020  | 3,000            | 197,050  | -3,00    | 277+0.000  | 197,140      | 195,228      | 1,912         | 3,000            | 197,050  | -3,00     | 4,000             | 197,020  |            |          |  |  |
|               |          | 4,000             | 197,090  | 3,000            | 197,120  | -3,00    | 278+0.000  | 197,210      | 195,384      | 1,826         | 3,000            | 197,120  | -3,00     | 4,000             | 197,090  |            |          |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |           |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |            |          |  |
|---------------|----------|-------------------|----------|------------------|----------|-----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |  |
| Afast. (m)    | Cota (m) | 4,000             | 197,160  | 3,000            | 197,190  | -3,00     | 279+0.000  | 197,280      | 195,489      | 1,791         | 3,000            | 197,190  | -3,00             | 4,000      | 197,160  |            |          |  |
|               |          | 4,000             | 197,171  | 3,000            | 197,201  | -3,00     | 279+3.000  | 197,291      | 195,475      | 1,816         | 3,000            | 197,201  | -3,00             | 4,000      | 197,171  |            |          |  |
|               |          | 4,000             | 197,210  | 3,000            | 197,240  | -3,00     | 279+12.569 | 197,330      | 195,671      | 1,659         | 3,000            | 197,240  | -3,00             | 4,000      | 197,210  |            |          |  |
|               |          | 4,318             | 197,240  | 3,318            | 197,270  | -3,00     | 280+0.000  | 197,370      | 195,762      | 1,608         | 3,318            | 197,270  | -3,00             | 4,318      | 197,240  |            |          |  |
|               |          | 5,176             | 197,359  | 4,176            | 197,389  | -3,00     | 281+0.000  | 197,514      | 196,004      | 1,510         | 4,176            | 197,389  | -3,00             | 5,176      | 197,359  |            |          |  |
|               |          | 6,033             | 197,533  | 5,033            | 197,563  | -3,00     | 282+0.000  | 197,714      | 196,110      | 1,604         | 5,033            | 197,563  | -3,00             | 6,033      | 197,533  |            |          |  |
|               |          | 6,890             | 197,762  | 5,890            | 197,792  | -3,00     | 283+0.000  | 197,969      | 196,560      | 1,409         | 5,890            | 197,792  | -3,00             | 6,890      | 197,762  |            |          |  |
|               |          | 7,000             | 197,795  | 6,000            | 197,825  | -3,00     | 283+2.569  | 198,005      | 196,650      | 1,355         | 6,000            | 197,825  | -3,00             | 7,000      | 197,795  |            |          |  |
|               |          | 7,000             | 198,069  | 6,000            | 198,099  | -3,00     | 284+0.000  | 198,279      | 197,144      | 1,135         | 6,000            | 198,099  | -3,00             | 7,000      | 198,069  |            |          |  |
|               |          | 7,000             | 198,434  | 6,000            | 198,464  | -3,00     | 285+0.000  | 198,644      | 197,564      | 1,080         | 6,000            | 198,464  | -3,00             | 7,000      | 198,434  |            |          |  |
|               |          | 7,000             | 198,485  | 6,000            | 198,515  | -3,00     | 285+2.600  | 198,695      | 197,602      | 1,093         | 6,000            | 198,515  | -3,00             | 7,000      | 198,485  |            |          |  |
|               |          | 6,254             | 198,876  | 5,254            | 198,906  | -3,00     | 286+0.000  | 199,064      | 197,640      | 1,424         | 5,254            | 198,906  | -3,00             | 6,254      | 198,876  |            |          |  |
|               |          | 5,397             | 199,377  | 4,397            | 199,407  | -3,00     | 287+0.000  | 199,539      | 197,922      | 1,617         | 4,397            | 199,407  | -3,00             | 5,397      | 199,377  |            |          |  |
|               |          | 5,269             | 199,457  | 4,269            | 199,487  | -3,00     | 287+3.000  | 199,615      | 198,016      | 1,599         | 4,269            | 199,487  | -3,00             | 5,269      | 199,457  |            |          |  |
|               |          | 4,540             | 199,914  | 3,540            | 199,944  | -3,00     | 288+0.000  | 200,050      | 198,667      | 1,383         | 3,540            | 199,944  | -3,00             | 4,540      | 199,914  |            |          |  |
|               |          | 4,000             | 200,252  | 3,000            | 200,282  | -3,00     | 288+12.600 | 200,372      | 199,195      | 1,177         | 3,000            | 200,282  | -3,00             | 4,000      | 200,252  |            |          |  |
|               |          | 4,000             | 200,441  | 3,000            | 200,471  | -3,00     | 289+0.000  | 200,561      | 199,305      | 1,256         | 3,000            | 200,471  | -3,00             | 4,000      | 200,441  |            |          |  |
|               |          | 4,000             | 200,952  | 3,000            | 200,982  | -3,00     | 290+0.000  | 201,072      | 199,796      | 1,276         | 3,000            | 200,982  | -3,00             | 4,000      | 200,952  |            |          |  |
|               |          | 4,000             | 201,463  | 3,000            | 201,493  | -3,00     | 291+0.000  | 201,583      | 200,393      | 1,190         | 3,000            | 201,493  | -3,00             | 4,000      | 201,463  |            |          |  |
|               |          | 4,000             | 201,974  | 3,000            | 202,004  | -3,00     | 292+0.000  | 202,094      | 200,939      | 1,155         | 3,000            | 202,004  | -3,00             | 4,000      | 201,974  |            |          |  |
|               |          | 4,000             | 202,485  | 3,000            | 202,515  | -3,00     | 293+0.000  | 202,605      | 201,618      | 0,987         | 3,000            | 202,515  | -3,00             | 4,000      | 202,485  |            |          |  |
|               |          | 4,000             | 202,996  | 3,000            | 203,026  | -3,00     | 294+0.000  | 203,116      | 202,250      | 0,866         | 3,000            | 203,026  | -3,00             | 4,000      | 202,996  |            |          |  |
|               |          | 4,000             | 203,507  | 3,000            | 203,537  | -3,00     | 295+0.000  | 203,627      | 202,728      | 0,899         | 3,000            | 203,537  | -3,00             | 4,000      | 203,507  |            |          |  |
|               |          | 4,000             | 204,019  | 3,000            | 204,049  | -3,00     | 296+0.000  | 204,139      | 203,290      | 0,849         | 3,000            | 204,049  | -3,00             | 4,000      | 204,019  |            |          |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |         |                  |          |          |            |              |              | Eixo          |                  |          | Lado Direito      |            |         |  |          |  |
|---------------|----------|-------------------|---------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|---------|--|----------|--|
| Offset        |          | Bordo Acostamento |         | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset  |  |          |  |
|               |          |                   |         | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) |         |  | Cota (m) |  |
| Afast. (m)    | Cota (m) | 4,000             | 204,530 | 3,000            | 204,560  | -3,00    | 297+0.000  | 204,650      | 204,084      | 0,566         | 3,000            | 204,560  | -3,00             | 4,000      | 204,530 |  |          |  |
|               |          | 4,000             | 205,041 | 3,000            | 205,071  | -3,00    | 298+0.000  | 205,161      | 204,976      | 0,185         | 3,000            | 205,071  | -3,00             | 4,000      | 205,041 |  |          |  |
|               |          | 4,000             | 205,552 | 3,000            | 205,582  | -3,00    | 299+0.000  | 205,672      | 205,910      | -0,238        | 3,000            | 205,582  | -3,00             | 4,000      | 205,552 |  |          |  |
|               |          | 4,000             | 206,063 | 3,000            | 206,093  | -3,00    | 300+0.000  | 206,183      | 206,739      | -0,556        | 3,000            | 206,093  | -3,00             | 4,000      | 206,063 |  |          |  |
|               |          | 4,000             | 206,574 | 3,000            | 206,604  | -3,00    | 301+0.000  | 206,694      | 207,594      | -0,900        | 3,000            | 206,604  | -3,00             | 4,000      | 206,574 |  |          |  |
|               |          | 4,000             | 207,085 | 3,000            | 207,115  | -3,00    | 302+0.000  | 207,205      | 208,276      | -1,071        | 3,000            | 207,115  | -3,00             | 4,000      | 207,085 |  |          |  |
|               |          | 4,000             | 207,596 | 3,000            | 207,626  | -3,00    | 303+0.000  | 207,716      | 208,561      | -0,845        | 3,000            | 207,626  | -3,00             | 4,000      | 207,596 |  |          |  |
|               |          | 4,000             | 208,108 | 3,000            | 208,138  | -3,00    | 304+0.000  | 208,228      | 208,832      | -0,604        | 3,000            | 208,138  | -3,00             | 4,000      | 208,108 |  |          |  |
|               |          | 4,000             | 208,619 | 3,000            | 208,649  | -3,00    | 305+0.000  | 208,739      | 208,941      | -0,202        | 3,000            | 208,649  | -3,00             | 4,000      | 208,619 |  |          |  |
|               |          | 4,000             | 209,130 | 3,000            | 209,160  | -3,00    | 306+0.000  | 209,250      | 208,872      | 0,378         | 3,000            | 209,160  | -3,00             | 4,000      | 209,130 |  |          |  |
|               |          | 4,000             | 209,641 | 3,000            | 209,671  | -3,00    | 307+0.000  | 209,761      | 208,937      | 0,824         | 3,000            | 209,671  | -3,00             | 4,000      | 209,641 |  |          |  |
|               |          | 4,000             | 210,152 | 3,000            | 210,182  | -3,00    | 308+0.000  | 210,272      | 209,329      | 0,943         | 3,000            | 210,182  | -3,00             | 4,000      | 210,152 |  |          |  |
|               |          | 4,000             | 210,663 | 3,000            | 210,693  | -3,00    | 309+0.000  | 210,783      | 209,374      | 1,409         | 3,000            | 210,693  | -3,00             | 4,000      | 210,663 |  |          |  |
|               |          | 4,000             | 211,174 | 3,000            | 211,204  | -3,00    | 310+0.000  | 211,294      | 209,639      | 1,655         | 3,000            | 211,204  | -3,00             | 4,000      | 211,174 |  |          |  |
|               |          | 4,000             | 211,652 | 3,000            | 211,682  | -3,00    | 311+0.000  | 211,772      | 210,257      | 1,515         | 3,000            | 211,682  | -3,00             | 4,000      | 211,652 |  |          |  |
|               |          | 4,000             | 212,063 | 3,000            | 212,093  | -3,00    | 312+0.000  | 212,183      | 211,160      | 1,023         | 3,000            | 212,093  | -3,00             | 4,000      | 212,063 |  |          |  |
|               |          | 4,000             | 212,408 | 3,000            | 212,438  | -3,00    | 313+0.000  | 212,528      | 212,034      | 0,494         | 3,000            | 212,438  | -3,00             | 4,000      | 212,408 |  |          |  |
|               |          | 4,000             | 212,686 | 3,000            | 212,716  | -3,00    | 314+0.000  | 212,806      | 212,876      | -0,070        | 3,000            | 212,716  | -3,00             | 4,000      | 212,686 |  |          |  |
|               |          | 4,000             | 212,898 | 3,000            | 212,928  | -3,00    | 315+0.000  | 213,018      | 213,601      | -0,583        | 3,000            | 212,928  | -3,00             | 4,000      | 212,898 |  |          |  |
|               |          | 4,000             | 213,043 | 3,000            | 213,073  | -3,00    | 316+0.000  | 213,163      | 213,959      | -0,796        | 3,000            | 213,073  | -3,00             | 4,000      | 213,043 |  |          |  |
|               |          | 4,000             | 213,122 | 3,000            | 213,152  | -3,00    | 317+0.000  | 213,242      | 214,003      | -0,761        | 3,000            | 213,152  | -3,00             | 4,000      | 213,122 |  |          |  |
|               |          | 4,000             | 213,137 | 3,000            | 213,167  | -3,00    | 317+13.599 | 213,257      | 213,734      | -0,477        | 3,000            | 213,167  | -3,00             | 4,000      | 213,137 |  |          |  |
|               |          | 4,000             | 213,134 | 3,000            | 213,164  | -3,00    | 318+0.000  | 213,254      | 213,777      | -0,523        | 3,000            | 213,164  | -3,00             | 4,000      | 213,134 |  |          |  |
|               |          | 4,000             | 213,079 | 3,000            | 213,109  | -3,00    | 319+0.000  | 213,199      | 213,822      | -0,623        | 3,000            | 213,109  | -3,00             | 4,000      | 213,079 |  |          |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |            |          |            |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|------------|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |            |
| Afast. (m)    | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)          | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) |
|               |          | 4,000             | 212,958  | 3,000            | 212,988  | -3,00    | 320+0.000  | 213,078      | 213,572      | -0,494        | 3,000            | 212,988  | -3,00             | 4,000      | 212,958  |            |          |            |
|               |          | 4,000             | 212,770  | 3,000            | 212,800  | -3,00    | 321+0.000  | 212,890      | 213,559      | -0,669        | 3,000            | 212,800  | -3,00             | 4,000      | 212,770  |            |          |            |
|               |          | 4,000             | 212,516  | 3,000            | 212,546  | -3,00    | 322+0.000  | 212,636      | 213,297      | -0,661        | 3,000            | 212,546  | -3,00             | 4,000      | 212,516  |            |          |            |
|               |          | 4,000             | 212,195  | 3,000            | 212,225  | -3,00    | 323+0.000  | 212,315      | 212,960      | -0,645        | 3,000            | 212,225  | -3,00             | 4,000      | 212,195  |            |          |            |
|               |          | 4,000             | 211,808  | 3,000            | 211,838  | -3,00    | 324+0.000  | 211,928      | 212,477      | -0,549        | 3,000            | 211,838  | -3,00             | 4,000      | 211,808  |            |          |            |
|               |          | 4,000             | 211,354  | 3,000            | 211,384  | -3,00    | 325+0.000  | 211,474      | 211,729      | -0,255        | 3,000            | 211,384  | -3,00             | 4,000      | 211,354  |            |          |            |
|               |          | 4,000             | 210,834  | 3,000            | 210,864  | -3,00    | 326+0.000  | 210,954      | 210,983      | -0,029        | 3,000            | 210,864  | -3,00             | 4,000      | 210,834  |            |          |            |
|               |          | 4,000             | 210,247  | 3,000            | 210,277  | -3,00    | 327+0.000  | 210,367      | 210,209      | 0,158         | 3,000            | 210,277  | -3,00             | 4,000      | 210,247  |            |          |            |
|               |          | 4,000             | 209,731  | 3,000            | 209,761  | -3,00    | 327+15.933 | 209,851      | 209,529      | 0,322         | 3,000            | 209,761  | -3,00             | 4,000      | 209,731  |            |          |            |
|               |          | 4,000             | 209,620  | 3,000            | 209,643  | -2,33    | 328+0.000  | 209,713      | 209,339      | 0,374         | 3,000            | 209,623  | -3,00             | 4,000      | 209,593  |            |          |            |
|               |          | 4,000             | 209,226  | 3,000            | 209,226  | 0,00     | 328+14.194 | 209,226      | 208,705      | 0,521         | 3,000            | 209,136  | -3,00             | 4,000      | 209,106  |            |          |            |
|               |          | 4,000             | 209,064  | 3,000            | 209,055  | 0,95     | 329+0.000  | 209,026      | 208,456      | 0,570         | 3,000            | 208,936  | -3,00             | 4,000      | 208,906  |            |          |            |
|               |          | 4,000             | 208,915  | 3,000            | 208,896  | 1,84     | 329+5.394  | 208,841      | 208,231      | 0,610         | 3,000            | 208,751  | -3,00             | 4,000      | 208,721  |            |          |            |
|               |          | 4,000             | 208,718  | 3,000            | 208,688  | 3,00     | 329+12.455 | 208,598      | 207,902      | 0,696         | 3,000            | 208,508  | -3,00             | 4,000      | 208,478  |            |          |            |
|               |          | 4,000             | 208,509  | 3,000            | 208,466  | 4,24     | 330+0.000  | 208,339      | 207,550      | 0,789         | 3,000            | 208,212  | -4,24             | 4,000      | 208,169  |            |          |            |
|               |          | 4,000             | 208,448  | 3,000            | 208,402  | 4,60     | 330+2.194  | 208,264      | 207,485      | 0,779         | 3,000            | 208,126  | -4,60             | 4,000      | 208,080  |            |          |            |
|               |          | 4,000             | 207,836  | 3,000            | 207,790  | 4,60     | 331+0.000  | 207,652      | 206,845      | 0,807         | 3,000            | 207,514  | -4,60             | 4,000      | 207,468  |            |          |            |
|               |          | 4,000             | 207,492  | 3,000            | 207,446  | 4,60     | 331+10.020 | 207,308      | 206,524      | 0,784         | 3,000            | 207,170  | -4,60             | 4,000      | 207,124  |            |          |            |
|               |          | 4,000             | 207,150  | 3,000            | 207,104  | 4,60     | 332+0.000  | 206,966      | 205,889      | 1,077         | 3,000            | 206,828  | -4,60             | 4,000      | 206,782  |            |          |            |
|               |          | 4,000             | 206,537  | 3,000            | 206,491  | 4,60     | 332+17.847 | 206,353      | 204,909      | 1,444         | 3,000            | 206,215  | -4,60             | 4,000      | 206,169  |            |          |            |
|               |          | 4,000             | 206,444  | 3,000            | 206,403  | 4,13     | 333+0.000  | 206,279      | 204,884      | 1,395         | 3,000            | 206,155  | -4,13             | 4,000      | 206,114  |            |          |            |
|               |          | 4,000             | 205,814  | 3,000            | 205,805  | 0,96     | 333+14.647 | 205,776      | 204,859      | 0,917         | 3,000            | 205,747  | -0,96             | 4,000      | 205,738  |            |          |            |
|               |          | 4,000             | 205,584  | 3,000            | 205,586  | -0,20    | 334+0.000  | 205,592      | 204,422      | 1,170         | 3,000            | 205,598  | 0,20              | 4,000      | 205,600  |            |          |            |
|               |          | 4,000             | 205,434  | 3,000            | 205,443  | -0,96    | 334+3.490  | 205,472      | 204,126      | 1,346         | 3,000            | 205,501  | 0,96              | 4,000      | 205,510  |            |          |            |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |              |              | Eixo          |                  |          |          | Lado Direito      |          |            |          |  |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|----------|-------------------|----------|------------|----------|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          |          | Bordo Acostamento |          | Offset     |          |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%) | Afast. (m)        | Cota (m) | Afast. (m) | Cota (m) |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 205,110  | 3,000            | 205,136  | -2,59    | 334+11.000 | 205,214      | 203,543      | 1,671         | 3,000            | 205,292  | 3,000    | 205,318           |          |            |          |  |  |
|               |          | 4,000             | 204,731  | 3,000            | 204,777  | -4,54    | 335+0.000  | 204,913      | 203,029      | 1,884         | 3,000            | 205,049  | 3,000    | 205,095           |          |            |          |  |  |
|               |          | 4,000             | 204,719  | 3,000            | 204,765  | -4,60    | 335+0.290  | 204,903      | 203,013      | 1,890         | 3,000            | 205,041  | 3,000    | 205,087           |          |            |          |  |  |
|               |          | 4,000             | 204,115  | 3,000            | 204,161  | -4,60    | 336+0.000  | 204,299      | 201,988      | 2,311         | 3,000            | 204,437  | 3,000    | 204,483           |          |            |          |  |  |
|               |          | 4,000             | 203,577  | 3,000            | 203,623  | -4,60    | 337+0.000  | 203,761      | 201,648      | 2,113         | 3,000            | 203,899  | 3,000    | 203,945           |          |            |          |  |  |
|               |          | 4,000             | 203,117  | 3,000            | 203,163  | -4,60    | 338+0.000  | 203,301      | 201,315      | 1,986         | 3,000            | 203,439  | 3,000    | 203,485           |          |            |          |  |  |
|               |          | 4,000             | 203,116  | 3,000            | 203,162  | -4,60    | 338+0.028  | 203,300      | 201,315      | 1,985         | 3,000            | 203,438  | 3,000    | 203,484           |          |            |          |  |  |
|               |          | 4,000             | 202,732  | 3,000            | 202,778  | -4,60    | 339+0.000  | 202,916      | 201,374      | 1,542         | 3,000            | 203,054  | 3,000    | 203,100           |          |            |          |  |  |
|               |          | 4,000             | 202,425  | 3,000            | 202,471  | -4,60    | 340+0.000  | 202,609      | 201,442      | 1,167         | 3,000            | 202,747  | 3,000    | 202,793           |          |            |          |  |  |
|               |          | 4,000             | 202,196  | 3,000            | 202,242  | -4,60    | 340+19.766 | 202,380      | 201,557      | 0,823         | 3,000            | 202,518  | 3,000    | 202,564           |          |            |          |  |  |
|               |          | 4,000             | 202,195  | 3,000            | 202,241  | -4,58    | 341+0.000  | 202,378      | 201,560      | 0,818         | 3,000            | 202,515  | 3,000    | 202,561           |          |            |          |  |  |
|               |          | 4,000             | 202,122  | 3,000            | 202,153  | -3,04    | 341+16.566 | 202,244      | 201,666      | 0,578         | 3,000            | 202,335  | 3,000    | 202,366           |          |            |          |  |  |
|               |          | 4,000             | 202,114  | 3,000            | 202,141  | -2,72    | 342+0.000  | 202,223      | 201,580      | 0,643         | 3,000            | 202,305  | 3,000    | 202,332           |          |            |          |  |  |
|               |          | 4,000             | 202,103  | 3,000            | 202,120  | -1,70    | 342+11.000 | 202,171      | 201,535      | 0,636         | 3,000            | 202,222  | 3,000    | 202,239           |          |            |          |  |  |
|               |          | 4,000             | 202,104  | 3,000            | 202,112  | -0,86    | 343+0.000  | 202,138      | 201,509      | 0,629         | 3,000            | 202,164  | 3,000    | 202,172           |          |            |          |  |  |
|               |          | 4,000             | 202,104  | 3,000            | 202,094  | 1,00     | 344+0.000  | 202,064      | 201,167      | 0,897         | 3,000            | 202,034  | 3,000    | 202,024           |          |            |          |  |  |
|               |          | 4,000             | 202,104  | 3,000            | 202,086  | 1,85     | 344+9.178  | 202,030      | 200,812      | 1,218         | 3,000            | 201,975  | 3,000    | 201,956           |          |            |          |  |  |
|               |          | 4,000             | 202,104  | 3,000            | 202,076  | 2,80     | 344+19.378 | 201,992      | 200,747      | 1,245         | 3,000            | 201,908  | 3,000    | 201,880           |          |            |          |  |  |
|               |          | 4,000             | 202,105  | 3,000            | 202,076  | 2,90     | 345+0.000  | 201,989      | 200,760      | 1,229         | 3,000            | 201,902  | 3,000    | 201,873           |          |            |          |  |  |
|               |          | 4,000             | 202,107  | 3,000            | 202,077  | 3,00     | 345+0.592  | 201,987      | 200,773      | 1,214         | 3,000            | 201,897  | 3,000    | 201,867           |          |            |          |  |  |
|               |          | 4,000             | 202,035  | 3,000            | 202,005  | 3,00     | 346+0.000  | 201,915      | 200,930      | 0,985         | 3,000            | 201,825  | 3,000    | 201,795           |          |            |          |  |  |
|               |          | 4,000             | 201,935  | 3,000            | 201,905  | 3,00     | 347+0.000  | 201,815      | 200,738      | 1,077         | 3,000            | 201,725  | 3,000    | 201,695           |          |            |          |  |  |
|               |          | 4,000             | 201,812  | 3,000            | 201,782  | 3,00     | 347+16.471 | 201,692      | 200,782      | 0,910         | 3,000            | 201,602  | 3,000    | 201,572           |          |            |          |  |  |
|               |          | 4,000             | 201,781  | 3,000            | 201,751  | 3,00     | 348+0.000  | 201,661      | 200,585      | 1,076         | 3,000            | 201,571  | 3,000    | 201,541           |          |            |          |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |        |              |              |               | Eixo             |            |                   |          | Lado Direito |         |            |          |  |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------------|----------|--------------|---------|------------|----------|--|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |          | Offset       |         |            |          |  |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Ind. (%)         | Afast. (m) | Cota (m)          | Ind. (%) |              |         | Afast. (m) | Cota (m) |  |  |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 201,574  | 3,000            | 201,544  | 3,00   | 349+0.000    | 201,454      | 200,432       | 1,022            | 3,000      | 201,364           | -3,00    | 4,000        | 201,334 |            |          |  |  |  |  |
|               |          | 4,000             | 201,314  | 3,000            | 201,284  | 3,00   | 350+0.000    | 201,194      | 200,400       | 0,794            | 3,000      | 201,104           | -3,00    | 4,000        | 201,074 |            |          |  |  |  |  |
|               |          | 4,000             | 201,127  | 3,000            | 201,097  | 3,00   | 350+12.349   | 201,007      | 200,302       | 0,705            | 3,000      | 200,917           | -3,00    | 4,000        | 200,887 |            |          |  |  |  |  |
|               |          | 4,000             | 201,099  | 3,000            | 201,071  | 2,80   | 350+13.564   | 200,987      | 200,283       | 0,704            | 3,000      | 200,903           | -2,80    | 4,000        | 200,875 |            |          |  |  |  |  |
|               |          | 4,000             | 200,950  | 3,000            | 200,932  | 1,74   | 351+0.000    | 200,880      | 200,052       | 0,828            | 3,000      | 200,794           | -2,88    | 4,000        | 200,765 |            |          |  |  |  |  |
|               |          | 4,000             | 200,860  | 3,000            | 200,849  | 1,12   | 351+3.764    | 200,815      | 199,917       | 0,898            | 3,000      | 200,727           | -2,92    | 4,000        | 200,698 |            |          |  |  |  |  |
|               |          | 4,000             | 200,693  | 3,000            | 200,693  | 0,00   | 351+10.564   | 200,693      | 199,749       | 0,944            | 3,000      | 200,603           | -3,00    | 4,000        | 200,573 |            |          |  |  |  |  |
|               |          | 4,000             | 200,452  | 3,000            | 200,468  | -1,55  | 352+0.000    | 200,514      | 199,627       | 0,887            | 3,000      | 200,424           | -3,00    | 4,000        | 200,394 |            |          |  |  |  |  |
|               |          | 4,000             | 200,216  | 3,000            | 200,246  | -3,00  | 352+8.778    | 200,336      | 199,310       | 1,026            | 3,000      | 200,246           | -3,00    | 4,000        | 200,216 |            |          |  |  |  |  |
|               |          | 4,000             | 199,974  | 3,000            | 200,004  | -3,00  | 353+0.000    | 200,094      | 198,889       | 1,205            | 3,000      | 200,004           | -3,00    | 4,000        | 199,974 |            |          |  |  |  |  |
|               |          | 4,000             | 199,501  | 3,000            | 199,531  | -3,00  | 354+0.000    | 199,621      | 198,417       | 1,204            | 3,000      | 199,531           | -3,00    | 4,000        | 199,501 |            |          |  |  |  |  |
|               |          | 4,000             | 199,301  | 3,000            | 199,331  | -3,00  | 354+8.000    | 199,421      | 198,235       | 1,186            | 3,000      | 199,331           | -3,00    | 4,000        | 199,301 |            |          |  |  |  |  |
|               |          | 4,000             | 199,015  | 3,000            | 199,045  | -3,00  | 355+0.000    | 199,135      | 197,651       | 1,484            | 3,000      | 199,045           | -3,00    | 4,000        | 199,015 |            |          |  |  |  |  |
|               |          | 4,000             | 198,597  | 3,000            | 198,627  | -3,00  | 356+0.000    | 198,717      | 197,329       | 1,388            | 3,000      | 198,627           | -3,00    | 4,000        | 198,597 |            |          |  |  |  |  |
|               |          | 4,000             | 198,253  | 3,000            | 198,283  | -3,00  | 357+0.000    | 198,373      | 197,086       | 1,287            | 3,000      | 198,283           | -3,00    | 4,000        | 198,253 |            |          |  |  |  |  |
|               |          | 4,000             | 197,984  | 3,000            | 198,014  | -3,00  | 358+0.000    | 198,104      | 196,653       | 1,451            | 3,000      | 198,014           | -3,00    | 4,000        | 197,984 |            |          |  |  |  |  |
|               |          | 4,000             | 197,790  | 3,000            | 197,820  | -3,00  | 359+0.000    | 197,910      | 196,618       | 1,292            | 3,000      | 197,820           | -3,00    | 4,000        | 197,790 |            |          |  |  |  |  |
|               |          | 4,000             | 197,669  | 3,000            | 197,699  | -3,00  | 360+0.000    | 197,789      | 196,533       | 1,256            | 3,000      | 197,699           | -3,00    | 4,000        | 197,669 |            |          |  |  |  |  |
|               |          | 4,000             | 197,642  | 3,000            | 197,672  | -3,00  | 360+8.000    | 197,762      | 196,529       | 1,233            | 3,000      | 197,672           | -3,00    | 4,000        | 197,642 |            |          |  |  |  |  |
|               |          | 4,000             | 197,610  | 3,000            | 197,640  | -3,00  | 361+0.000    | 197,730      | 196,501       | 1,229            | 3,000      | 197,640           | -3,00    | 4,000        | 197,610 |            |          |  |  |  |  |
|               |          | 4,000             | 197,557  | 3,000            | 197,587  | -3,00  | 362+0.000    | 197,677      | 196,333       | 1,344            | 3,000      | 197,587           | -3,00    | 4,000        | 197,557 |            |          |  |  |  |  |
|               |          | 4,000             | 197,504  | 3,000            | 197,534  | -3,00  | 363+0.000    | 197,624      | 196,444       | 1,180            | 3,000      | 197,534           | -3,00    | 4,000        | 197,504 |            |          |  |  |  |  |
|               |          | 4,000             | 197,496  | 3,000            | 197,526  | -3,00  | 363+5.423    | 197,616      | 196,519       | 1,097            | 3,000      | 197,526           | -3,00    | 4,000        | 197,496 |            |          |  |  |  |  |
|               |          | 4,000             | 197,549  | 3,000            | 197,579  | -3,00  | 364+0.000    | 197,669      | 196,559       | 1,110            | 3,000      | 197,579           | -3,00    | 4,000        | 197,549 |            |          |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |         |              | Eixo         |               |                  |          | Lado Direito      |          |         |  |  |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|---------|--------------|--------------|---------------|------------------|----------|-------------------|----------|---------|--|--|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          |            | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |          | Offset  |  |  |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) | Afast. (m) |         |              |              |               | Cota (m)         | Ind. (%) | Afast. (m)        | Cota (m) |         |  |  |  |  |  |
| Afast. (m)    | Cota (m) |                   |          |                  |          |          |            |         |              |              |               |                  |          |                   |          |         |  |  |  |  |  |
|               |          | 4,000             | 197,790  | 3,000            | 197,820  | -3,00    | 365+0.000  | 197,910 | 196,780      | 1,130        |               | 3,000            | 197,820  | -3,00             | 4,000    | 197,790 |  |  |  |  |  |
|               |          | 4,000             | 198,229  | 3,000            | 198,259  | -3,00    | 366+0.000  | 198,349 | 197,566      | 0,783        |               | 3,000            | 198,259  | -3,00             | 4,000    | 198,229 |  |  |  |  |  |
|               |          | 4,000             | 198,864  | 3,000            | 198,894  | -3,00    | 367+0.000  | 198,984 | 198,300      | 0,684        |               | 3,000            | 198,894  | -3,00             | 4,000    | 198,864 |  |  |  |  |  |
|               |          | 4,000             | 199,696  | 3,000            | 199,726  | -3,00    | 368+0.000  | 199,816 | 199,493      | 0,323        |               | 3,000            | 199,726  | -3,00             | 4,000    | 199,696 |  |  |  |  |  |
|               |          | 4,000             | 200,725  | 3,000            | 200,755  | -3,00    | 369+0.000  | 200,845 | 200,763      | 0,082        |               | 3,000            | 200,755  | -3,00             | 4,000    | 200,725 |  |  |  |  |  |
|               |          | 4,000             | 201,852  | 3,000            | 201,882  | -3,00    | 370+0.000  | 201,972 | 202,234      | -0,262       |               | 3,000            | 201,882  | -3,00             | 4,000    | 201,852 |  |  |  |  |  |
|               |          | 4,000             | 202,979  | 3,000            | 203,009  | -3,00    | 371+0.000  | 203,099 | 203,701      | -0,602       |               | 3,000            | 203,009  | -3,00             | 4,000    | 202,979 |  |  |  |  |  |
|               |          | 4,000             | 204,106  | 3,000            | 204,136  | -3,00    | 372+0.000  | 204,226 | 205,010      | -0,784       |               | 3,000            | 204,136  | -3,00             | 4,000    | 204,106 |  |  |  |  |  |
|               |          | 4,000             | 204,839  | 3,000            | 204,869  | -3,00    | 372+13.000 | 204,959 | 205,742      | -0,783       |               | 3,000            | 204,869  | -3,00             | 4,000    | 204,839 |  |  |  |  |  |
|               |          | 4,000             | 205,228  | 3,000            | 205,258  | -3,00    | 373+0.000  | 205,348 | 205,859      | -0,511       |               | 3,000            | 205,258  | -3,00             | 4,000    | 205,228 |  |  |  |  |  |
|               |          | 4,000             | 206,274  | 3,000            | 206,304  | -3,00    | 374+0.000  | 206,394 | 206,524      | -0,130       |               | 3,000            | 206,304  | -3,00             | 4,000    | 206,274 |  |  |  |  |  |
|               |          | 4,000             | 207,224  | 3,000            | 207,254  | -3,00    | 375+0.000  | 207,344 | 206,785      | 0,559        |               | 3,000            | 207,254  | -3,00             | 4,000    | 207,224 |  |  |  |  |  |
|               |          | 4,000             | 207,724  | 3,000            | 207,754  | -3,00    | 375+11.407 | 207,844 | 206,973      | 0,871        |               | 3,000            | 207,754  | -3,00             | 4,000    | 207,724 |  |  |  |  |  |
|               |          | 4,000             | 208,080  | 3,000            | 208,110  | -3,00    | 376+0.000  | 208,200 | 207,145      | 1,055        |               | 3,000            | 208,110  | -3,00             | 4,000    | 208,080 |  |  |  |  |  |
|               |          | 4,000             | 208,840  | 3,000            | 208,870  | -3,00    | 377+0.000  | 208,960 | 207,598      | 1,362        |               | 3,000            | 208,870  | -3,00             | 4,000    | 208,840 |  |  |  |  |  |
|               |          | 4,000             | 208,960  | 3,000            | 208,990  | -3,00    | 377+3.407  | 209,080 | 207,677      | 1,403        |               | 3,000            | 208,990  | -3,00             | 4,000    | 208,960 |  |  |  |  |  |
|               |          | 4,000             | 209,616  | 3,000            | 209,648  | -0,23    | 378+0.000  | 209,625 | 208,194      | 1,431        |               | 3,000            | 209,648  | -3,00             | 4,000    | 209,616 |  |  |  |  |  |
|               |          | 4,000             | 209,668  | 3,000            | 209,698  | 0,00     | 378+1.407  | 209,668 | 208,248      | 1,420        |               | 3,000            | 209,698  | -3,00             | 4,000    | 209,668 |  |  |  |  |  |
|               |          | 4,000             | 210,299  | 3,000            | 210,269  | 3,00     | 378+19.407 | 210,179 | 209,117      | 1,062        |               | 3,000            | 210,269  | -3,00             | 4,000    | 210,299 |  |  |  |  |  |
|               |          | 4,000             | 210,318  | 3,000            | 210,287  | 3,10     | 379+0.000  | 210,194 | 209,193      | 1,001        |               | 3,000            | 210,318  | -3,10             | 4,000    | 210,318 |  |  |  |  |  |
|               |          | 4,000             | 210,676  | 3,000            | 210,626  | 5,00     | 379+11.407 | 210,476 | 209,895      | 0,581        |               | 3,000            | 210,676  | -5,00             | 4,000    | 210,676 |  |  |  |  |  |
|               |          | 4,000             | 210,869  | 3,000            | 210,819  | 5,00     | 380+0.000  | 210,669 | 209,992      | 0,677        |               | 3,000            | 210,869  | -5,00             | 4,000    | 210,869 |  |  |  |  |  |
|               |          | 4,000             | 211,247  | 3,000            | 211,197  | 5,00     | 381+0.000  | 211,047 | 210,503      | 0,544        |               | 3,000            | 211,247  | -5,00             | 4,000    | 211,247 |  |  |  |  |  |
|               |          | 4,000             | 211,443  | 3,000            | 211,393  | 5,00     | 381+13.000 | 211,243 | 210,644      | 0,599        |               | 3,000            | 211,443  | -5,00             | 4,000    | 211,443 |  |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)          | Afast. (m) | Cota (m) |  |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 211,537  | 3,000            | 211,487  | 5,00     | 382+0.000  | 211,337      | 210,717      | 0,620         | 3,000            | 211,187  | -5,00             | 4,000      | 211,137  |  |  |  |
|               |          | 4,000             | 211,618  | 3,000            | 211,568  | 5,00     | 382+6.000  | 211,418      | 210,764      | 0,654         | 3,000            | 211,268  | -5,00             | 4,000      | 211,218  |  |  |  |
|               |          | 4,000             | 211,794  | 3,000            | 211,744  | 5,00     | 383+0.000  | 211,594      | 210,907      | 0,687         | 3,000            | 211,444  | -5,00             | 4,000      | 211,394  |  |  |  |
|               |          | 4,000             | 211,931  | 3,000            | 211,881  | 5,00     | 383+12.464 | 211,731      | 211,100      | 0,631         | 3,000            | 211,581  | -5,00             | 4,000      | 211,531  |  |  |  |
|               |          | 4,000             | 212,004  | 3,000            | 211,954  | 5,00     | 384+0.000  | 211,804      | 211,177      | 0,627         | 3,000            | 211,654  | -5,00             | 4,000      | 211,604  |  |  |  |
|               |          | 4,000             | 212,165  | 3,000            | 212,115  | 5,00     | 385+0.000  | 211,965      | 211,628      | 0,337         | 3,000            | 211,815  | -5,00             | 4,000      | 211,765  |  |  |  |
|               |          | 4,000             | 212,276  | 3,000            | 212,226  | 5,00     | 386+0.000  | 212,076      | 211,204      | 0,872         | 3,000            | 211,926  | -5,00             | 4,000      | 211,876  |  |  |  |
|               |          | 4,000             | 212,338  | 3,000            | 212,288  | 5,00     | 387+0.000  | 212,138      | 211,117      | 1,021         | 3,000            | 211,988  | -5,00             | 4,000      | 211,938  |  |  |  |
|               |          | 4,000             | 212,346  | 3,000            | 212,296  | 5,00     | 387+6.000  | 212,146      | 211,269      | 0,877         | 3,000            | 211,996  | -5,00             | 4,000      | 211,946  |  |  |  |
|               |          | 4,000             | 212,355  | 3,000            | 212,305  | 5,00     | 387+13.520 | 212,155      | 211,386      | 0,769         | 3,000            | 212,005  | -5,00             | 4,000      | 211,955  |  |  |  |
|               |          | 4,000             | 212,319  | 3,000            | 212,280  | 3,92     | 388+0.000  | 212,162      | 211,213      | 0,949         | 3,000            | 212,044  | -3,92             | 4,000      | 212,005  |  |  |  |
|               |          | 4,000             | 212,288  | 3,000            | 212,258  | 3,00     | 388+5.520  | 212,168      | 211,193      | 0,975         | 3,000            | 212,078  | -3,00             | 4,000      | 212,048  |  |  |  |
|               |          | 4,000             | 212,208  | 3,000            | 212,202  | 0,59     | 389+0.000  | 212,184      | 211,493      | 0,691         | 3,000            | 212,094  | -3,00             | 4,000      | 212,064  |  |  |  |
|               |          | 4,000             | 212,188  | 3,000            | 212,188  | 0,00     | 389+3.520  | 212,188      | 211,536      | 0,652         | 3,000            | 212,098  | -3,00             | 4,000      | 212,068  |  |  |  |
|               |          | 4,000             | 212,097  | 3,000            | 212,125  | -2,75    | 390+0.000  | 212,207      | 211,620      | 0,587         | 3,000            | 212,117  | -3,00             | 4,000      | 212,087  |  |  |  |
|               |          | 4,000             | 212,088  | 3,000            | 212,118  | -3,00    | 390+1.520  | 212,208      | 211,634      | 0,574         | 3,000            | 212,118  | -3,00             | 4,000      | 212,088  |  |  |  |
|               |          | 4,000             | 212,096  | 3,000            | 212,126  | -3,00    | 390+17.462 | 212,216      | 211,610      | 0,606         | 3,000            | 212,126  | -3,00             | 4,000      | 212,096  |  |  |  |
|               |          | 4,000             | 212,096  | 3,000            | 212,126  | -3,00    | 391+0.000  | 212,216      | 211,623      | 0,593         | 3,000            | 212,126  | -3,00             | 4,000      | 212,096  |  |  |  |
|               |          | 4,000             | 212,088  | 3,000            | 212,118  | -3,00    | 391+13.520 | 212,208      | 211,649      | 0,559         | 3,000            | 212,118  | -3,00             | 4,000      | 212,088  |  |  |  |
|               |          | 4,000             | 212,080  | 3,000            | 212,110  | -3,00    | 392+0.000  | 212,200      | 211,621      | 0,579         | 3,000            | 212,110  | -3,00             | 4,000      | 212,080  |  |  |  |
|               |          | 4,000             | 212,039  | 3,000            | 212,069  | -3,00    | 393+0.000  | 212,159      | 211,684      | 0,475         | 3,000            | 212,069  | -3,00             | 4,000      | 212,039  |  |  |  |
|               |          | 4,000             | 211,972  | 3,000            | 212,002  | -3,00    | 394+0.000  | 212,092      | 211,368      | 0,724         | 3,000            | 212,002  | -3,00             | 4,000      | 211,972  |  |  |  |
|               |          | 4,000             | 211,879  | 3,000            | 211,909  | -3,00    | 395+0.000  | 211,999      | 211,026      | 0,973         | 3,000            | 211,909  | -3,00             | 4,000      | 211,879  |  |  |  |
|               |          | 4,000             | 211,761  | 3,000            | 211,791  | -3,00    | 396+0.000  | 211,881      | 211,064      | 0,817         | 3,000            | 211,791  | -3,00             | 4,000      | 211,761  |  |  |  |



## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |         |                  |          |            |            |         |              |              |               |                  |            |          |           | Eixo              |          |        |  | Lado Direito |  |  |  |  |  |
|---------------|----------|-------------------|---------|------------------|----------|------------|------------|---------|--------------|--------------|---------------|------------------|------------|----------|-----------|-------------------|----------|--------|--|--------------|--|--|--|--|--|
| Offset        |          | Bordo Acostamento |         | Bordo Semi-Pista |          |            |            | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            |          |           | Bordo Acostamento |          | Offset |  |              |  |  |  |  |  |
|               |          |                   |         | Afast. (m)       | Cota (m) | Afast. (m) | Cota (m)   |         |              |              |               | Ind. (%)         | Afast. (m) | Cota (m) | Incl. (%) | Afast. (m)        | Cota (m) |        |  |              |  |  |  |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 211,617 | 3,000            | 211,647  | -3,00      | 397+0.000  | 211,737 | 210,688      | 1,049        | 3,000         | 211,647          | -3,00      | 4,000    | 211,617   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,448 | 3,000            | 211,478  | -3,00      | 398+0.000  | 211,568 | 210,278      | 1,290        | 3,000         | 211,478          | -3,00      | 4,000    | 211,448   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,266 | 3,000            | 211,296  | -3,00      | 399+0.000  | 211,386 | 209,686      | 1,700        | 3,000         | 211,296          | -3,00      | 4,000    | 211,266   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,238 | 3,000            | 211,268  | -3,00      | 399+3.000  | 211,358 | 209,667      | 1,691        | 3,000         | 211,268          | -3,00      | 4,000    | 211,238   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,099 | 3,000            | 211,129  | -3,00      | 400+0.000  | 211,219 | 209,700      | 1,519        | 3,000         | 211,129          | -3,00      | 4,000    | 211,099   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 210,974 | 3,000            | 211,004  | -3,00      | 401+0.000  | 211,094 | 209,738      | 1,356        | 3,000         | 211,004          | -3,00      | 4,000    | 210,974   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 210,892 | 3,000            | 210,922  | -3,00      | 402+0.000  | 211,012 | 209,731      | 1,281        | 3,000         | 210,922          | -3,00      | 4,000    | 210,892   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 210,852 | 3,000            | 210,882  | -3,00      | 403+0.000  | 210,972 | 209,847      | 1,125        | 3,000         | 210,882          | -3,00      | 4,000    | 210,852   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 210,848 | 3,000            | 210,878  | -3,00      | 403+8.740  | 210,968 | 210,048      | 0,920        | 3,000         | 210,878          | -3,00      | 4,000    | 210,848   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 210,855 | 3,000            | 210,885  | -3,00      | 404+0.000  | 210,975 | 209,954      | 1,021        | 3,000         | 210,885          | -3,00      | 4,000    | 210,855   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 210,900 | 3,000            | 210,930  | -3,00      | 405+0.000  | 211,020 | 209,875      | 1,145        | 3,000         | 210,930          | -3,00      | 4,000    | 210,900   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 210,910 | 3,000            | 210,940  | -3,00      | 405+3.000  | 211,030 | 209,910      | 1,120        | 3,000         | 210,940          | -3,00      | 4,000    | 210,910   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 210,972 | 3,000            | 211,002  | -3,00      | 406+0.000  | 211,092 | 209,879      | 1,213        | 3,000         | 211,002          | -3,00      | 4,000    | 210,972   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,045 | 3,000            | 211,075  | -3,00      | 407+0.000  | 211,165 | 210,116      | 1,049        | 3,000         | 211,075          | -3,00      | 4,000    | 211,045   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,118 | 3,000            | 211,148  | -3,00      | 408+0.000  | 211,238 | 210,386      | 0,852        | 3,000         | 211,148          | -3,00      | 4,000    | 211,118   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,191 | 3,000            | 211,221  | -3,00      | 409+0.000  | 211,311 | 210,450      | 0,861        | 3,000         | 211,221          | -3,00      | 4,000    | 211,191   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,263 | 3,000            | 211,293  | -3,00      | 410+0.000  | 211,383 | 210,390      | 0,993        | 3,000         | 211,293          | -3,00      | 4,000    | 211,263   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,311 | 3,000            | 211,341  | -3,00      | 410+13.000 | 211,431 | 210,383      | 1,048        | 3,000         | 211,341          | -3,00      | 4,000    | 211,311   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,337 | 3,000            | 211,367  | -3,00      | 411+0.000  | 211,457 | 210,359      | 1,098        | 3,000         | 211,367          | -3,00      | 4,000    | 211,337   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,429 | 3,000            | 211,459  | -3,00      | 412+0.000  | 211,549 | 210,428      | 1,121        | 3,000         | 211,459          | -3,00      | 4,000    | 211,429   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,543 | 3,000            | 211,573  | -3,00      | 413+0.000  | 211,663 | 210,296      | 1,367        | 3,000         | 211,573          | -3,00      | 4,000    | 211,543   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,679 | 3,000            | 211,709  | -3,00      | 414+0.000  | 211,799 | 210,467      | 1,332        | 3,000         | 211,709          | -3,00      | 4,000    | 211,679   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 211,838 | 3,000            | 211,868  | -3,00      | 415+0.000  | 211,958 | 210,623      | 1,335        | 3,000         | 211,868          | -3,00      | 4,000    | 211,838   |                   |          |        |  |              |  |  |  |  |  |
|               |          | 4,000             | 212,018 | 3,000            | 212,048  | -3,00      | 416+0.000  | 212,138 | 210,900      | 1,238        | 3,000         | 212,048          | -3,00      | 4,000    | 212,018   |                   |          |        |  |              |  |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |          |          |            |              |              | Eixo          |                  |          | Lado Direito |            |          |            |          |            |          |
|---------------|----------|-------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|--------------|------------|----------|------------|----------|------------|----------|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Acostamento  |            | Offset   |            |          |            |          |
| Afast. (m)    | Cota (m) | Afast. (m)  | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)     | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |
|               |          | 4,000       | 212,221  | 3,000            | 212,251  | -3,00    | 417+0.000  | 212,341      | 210,863      | 1,478         | 3,000            | 212,251  | -3,00        | 4,000      | 212,221  |            |          |            |          |
|               |          | 4,000       | 212,446  | 3,000            | 212,476  | -3,00    | 418+0.000  | 212,566      | 211,489      | 1,077         | 3,000            | 212,476  | -3,00        | 4,000      | 212,446  |            |          |            |          |
|               |          | 4,000       | 212,605  | 3,000            | 212,635  | -3,00    | 418+13.000 | 212,725      | 211,760      | 0,965         | 3,000            | 212,635  | -3,00        | 4,000      | 212,605  |            |          |            |          |
|               |          | 4,000       | 212,692  | 3,000            | 212,722  | -3,00    | 419+0.000  | 212,812      | 211,901      | 0,911         | 3,000            | 212,722  | -3,00        | 4,000      | 212,692  |            |          |            |          |
|               |          | 4,000       | 212,943  | 3,000            | 212,973  | -3,00    | 420+0.000  | 213,063      | 212,295      | 0,768         | 3,000            | 212,973  | -3,00        | 4,000      | 212,943  |            |          |            |          |
|               |          | 4,000       | 213,194  | 3,000            | 213,224  | -3,00    | 421+0.000  | 213,314      | 212,682      | 0,632         | 3,000            | 213,224  | -3,00        | 4,000      | 213,194  |            |          |            |          |
|               |          | 4,000       | 213,445  | 3,000            | 213,475  | -3,00    | 422+0.000  | 213,565      | 212,951      | 0,614         | 3,000            | 213,475  | -3,00        | 4,000      | 213,445  |            |          |            |          |
|               |          | 4,000       | 213,695  | 3,000            | 213,725  | -3,00    | 423+0.000  | 213,815      | 213,188      | 0,627         | 3,000            | 213,725  | -3,00        | 4,000      | 213,695  |            |          |            |          |
|               |          | 4,000       | 213,946  | 3,000            | 213,976  | -3,00    | 424+0.000  | 214,066      | 213,368      | 0,698         | 3,000            | 213,976  | -3,00        | 4,000      | 213,946  |            |          |            |          |
|               |          | 4,000       | 214,197  | 3,000            | 214,227  | -3,00    | 425+0.000  | 214,317      | 213,520      | 0,797         | 3,000            | 214,227  | -3,00        | 4,000      | 214,197  |            |          |            |          |
|               |          | 4,000       | 214,448  | 3,000            | 214,478  | -3,00    | 426+0.000  | 214,568      | 213,633      | 0,935         | 3,000            | 214,478  | -3,00        | 4,000      | 214,448  |            |          |            |          |
|               |          | 4,000       | 214,648  | 3,000            | 214,678  | -3,00    | 426+16.000 | 214,768      | 213,736      | 1,032         | 3,000            | 214,678  | -3,00        | 4,000      | 214,648  |            |          |            |          |
|               |          | 4,000       | 214,697  | 3,000            | 214,727  | -3,00    | 427+0.000  | 214,817      | 213,780      | 1,037         | 3,000            | 214,727  | -3,00        | 4,000      | 214,697  |            |          |            |          |
|               |          | 4,000       | 214,892  | 3,000            | 214,922  | -3,00    | 428+0.000  | 215,012      | 214,385      | 0,627         | 3,000            | 214,922  | -3,00        | 4,000      | 214,892  |            |          |            |          |
|               |          | 4,000       | 215,008  | 3,000            | 215,038  | -3,00    | 429+0.000  | 215,128      | 215,254      | -0,126        | 3,000            | 215,038  | -3,00        | 4,000      | 215,008  |            |          |            |          |
|               |          | 4,000       | 215,045  | 3,000            | 215,075  | -3,00    | 429+19.261 | 215,165      | 215,737      | -0,572        | 3,000            | 215,075  | -3,00        | 4,000      | 215,045  |            |          |            |          |
|               |          | 4,000       | 215,045  | 3,000            | 215,075  | -3,00    | 430+0.000  | 215,165      | 215,748      | -0,583        | 3,000            | 215,075  | -3,00        | 4,000      | 215,045  |            |          |            |          |
|               |          | 4,000       | 215,002  | 3,000            | 215,032  | -3,00    | 431+0.000  | 215,122      | 215,850      | -0,728        | 3,000            | 215,032  | -3,00        | 4,000      | 215,002  |            |          |            |          |
|               |          | 4,000       | 214,880  | 3,000            | 214,910  | -3,00    | 432+0.000  | 215,000      | 215,886      | -0,886        | 3,000            | 214,910  | -3,00        | 4,000      | 214,880  |            |          |            |          |
|               |          | 4,000       | 214,679  | 3,000            | 214,709  | -3,00    | 433+0.000  | 214,799      | 215,493      | -0,694        | 3,000            | 214,709  | -3,00        | 4,000      | 214,679  |            |          |            |          |
|               |          | 4,000       | 214,399  | 3,000            | 214,429  | -3,00    | 434+0.000  | 214,519      | 215,317      | -0,798        | 3,000            | 214,429  | -3,00        | 4,000      | 214,399  |            |          |            |          |
|               |          | 4,000       | 214,039  | 3,000            | 214,069  | -3,00    | 435+0.000  | 214,159      | 215,120      | -0,961        | 3,000            | 214,069  | -3,00        | 4,000      | 214,039  |            |          |            |          |
|               |          | 4,000       | 213,600  | 3,000            | 213,630  | -3,00    | 436+0.000  | 213,720      | 214,863      | -1,143        | 3,000            | 213,630  | -3,00        | 4,000      | 213,600  |            |          |            |          |
|               |          | 4,000       | 213,082  | 3,000            | 213,112  | -3,00    | 437+0.000  | 213,202      | 214,272      | -1,070        | 3,000            | 213,112  | -3,00        | 4,000      | 213,082  |            |          |            |          |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |            |          |            |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|------------|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |            |
| Afast. (m)    | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) |
|               |          | 4,000             | 212,484  | 3,000            | 212,514  | -3,00    | 438+0.000  | 212,604      | 213,477      | -0,873        |                  | 3,000    | 212,514           | -3,00      | 4,000    | 212,484    |          |            |
|               |          | 4,000             | 211,949  | 3,000            | 211,979  | -3,00    | 438+16.000 | 212,069      | 212,665      | -0,596        |                  | 3,000    | 211,979           | -3,00      | 4,000    | 211,949    |          |            |
|               |          | 4,000             | 211,809  | 3,000            | 211,839  | -3,00    | 439+0.000  | 211,929      | 212,465      | -0,536        |                  | 3,000    | 211,839           | -3,00      | 4,000    | 211,809    |          |            |
|               |          | 4,000             | 211,174  | 3,000            | 211,204  | -3,00    | 440+0.000  | 211,294      | 211,351      | -0,057        |                  | 3,000    | 211,204           | -3,00      | 4,000    | 211,174    |          |            |
|               |          | 4,000             | 210,668  | 3,000            | 210,698  | -3,00    | 441+0.000  | 210,788      | 210,154      | 0,634         |                  | 3,000    | 210,698           | -3,00      | 4,000    | 210,668    |          |            |
|               |          | 4,000             | 210,293  | 3,000            | 210,323  | -3,00    | 442+0.000  | 210,413      | 209,121      | 1,292         |                  | 3,000    | 210,323           | -3,00      | 4,000    | 210,293    |          |            |
|               |          | 4,000             | 210,047  | 3,000            | 210,077  | -3,00    | 443+0.000  | 210,167      | 208,422      | 1,745         |                  | 3,000    | 210,077           | -3,00      | 4,000    | 210,047    |          |            |
|               |          | 4,000             | 209,932  | 3,000            | 209,962  | -3,00    | 444+0.000  | 210,052      | 206,890      | 3,162         |                  | 3,000    | 209,962           | -3,00      | 4,000    | 209,932    |          |            |
|               |          | 4,000             | 209,922  | 3,000            | 209,952  | -3,00    | 444+7.735  | 210,042      | 207,462      | 2,580         |                  | 3,000    | 209,952           | -3,00      | 4,000    | 209,922    |          |            |
|               |          | 4,000             | 209,947  | 3,000            | 209,977  | -3,00    | 445+0.000  | 210,067      | 208,061      | 2,006         |                  | 3,000    | 209,977           | -3,00      | 4,000    | 209,947    |          |            |
|               |          | 4,000             | 210,092  | 3,000            | 210,122  | -3,00    | 446+0.000  | 210,212      | 208,708      | 1,504         |                  | 3,000    | 210,122           | -3,00      | 4,000    | 210,092    |          |            |
|               |          | 4,000             | 210,366  | 3,000            | 210,396  | -3,00    | 447+0.000  | 210,486      | 209,057      | 1,429         |                  | 3,000    | 210,396           | -3,00      | 4,000    | 210,366    |          |            |
|               |          | 4,000             | 210,771  | 3,000            | 210,801  | -3,00    | 448+0.000  | 210,891      | 209,959      | 0,932         |                  | 3,000    | 210,801           | -3,00      | 4,000    | 210,771    |          |            |
|               |          | 4,000             | 211,022  | 3,000            | 211,052  | -3,00    | 448+9.989  | 211,142      | 210,355      | 0,787         |                  | 3,000    | 211,052           | -3,00      | 4,000    | 211,022    |          |            |
|               |          | 4,429             | 211,293  | 3,429            | 211,323  | -3,00    | 449+0.000  | 211,426      | 210,558      | 0,868         |                  | 3,429    | 211,323           | -3,00      | 4,429    | 211,293    |          |            |
|               |          | 5,286             | 211,867  | 4,286            | 211,897  | -3,00    | 450+0.000  | 212,026      | 210,942      | 1,084         |                  | 4,286    | 211,897           | -3,00      | 5,286    | 211,867    |          |            |
|               |          | 6,143             | 212,442  | 5,143            | 212,472  | -3,00    | 451+0.000  | 212,626      | 211,544      | 1,082         |                  | 5,143    | 212,472           | -3,00      | 6,143    | 212,442    |          |            |
|               |          | 6,572             | 212,729  | 5,572            | 212,759  | -3,00    | 451+10.000 | 212,926      | 211,854      | 1,072         |                  | 5,572    | 212,759           | -3,00      | 6,572    | 212,729    |          |            |
|               |          | 7,000             | 212,995  | 6,000            | 213,025  | -3,00    | 451+19.989 | 213,205      | 212,349      | 0,856         |                  | 6,000    | 213,025           | -3,00      | 7,000    | 212,995    |          |            |
|               |          | 7,000             | 212,995  | 6,000            | 213,025  | -3,00    | 452+0.000  | 213,205      | 212,349      | 0,856         |                  | 6,000    | 213,025           | -3,00      | 7,000    | 212,995    |          |            |
|               |          | 7,000             | 213,428  | 6,000            | 213,458  | -3,00    | 453+0.000  | 213,638      | 213,426      | 0,212         |                  | 6,000    | 213,458           | -3,00      | 7,000    | 213,428    |          |            |
|               |          | 7,000             | 213,694  | 6,000            | 213,724  | -3,00    | 454+0.000  | 213,904      | 214,142      | -0,238        |                  | 6,000    | 213,724           | -3,00      | 7,000    | 213,694    |          |            |
|               |          | 7,000             | 213,694  | 6,000            | 213,724  | -3,00    | 454+0.011  | 213,904      | 214,142      | -0,238        |                  | 6,000    | 213,724           | -3,00      | 7,000    | 213,694    |          |            |
|               |          | 6,143             | 213,819  | 5,143            | 213,849  | -3,00    | 455+0.000  | 214,003      | 214,261      | -0,258        |                  | 5,143    | 213,849           | -3,00      | 6,143    | 213,819    |          |            |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |              |              | Eixo          |                  |            | Lado Direito      |            |          |         |          |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|------------|-------------------|------------|----------|---------|----------|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |            | Offset   |         |          |  |
|               |          |                   |          | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m)   | Incl. (%)         | Afast. (m) |          |         | Cota (m) |  |
| Afast. (m)    | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               |                  | Afast. (m) | Cota (m)          | Afast. (m) | Cota (m) |         |          |  |
|               |          | 6,065             | 213,822  | 5,065            | 213,852  | -3,00    | 455+1.832  | 214,004      | 214,247      | -0,243        |                  | 5,065      | 213,852           | -3,00      | 6,065    | 213,822 |          |  |
|               |          | 5,286             | 213,776  | 4,286            | 213,806  | -3,00    | 456+0.000  | 213,935      | 214,010      | -0,075        |                  | 4,286      | 213,806           | -3,00      | 5,286    | 213,776 |          |  |
|               |          | 4,429             | 213,562  | 3,429            | 213,592  | -3,00    | 457+0.000  | 213,695      | 213,597      | 0,098         |                  | 3,429      | 213,592           | -3,00      | 4,429    | 213,562 |          |  |
|               |          | 4,000             | 213,379  | 3,000            | 213,409  | -3,00    | 457+10.011 | 213,499      | 213,260      | 0,239         |                  | 3,000      | 213,409           | -3,00      | 4,000    | 213,379 |          |  |
|               |          | 4,000             | 213,133  | 3,000            | 213,163  | -3,00    | 458+0.000  | 213,253      | 212,771      | 0,482         |                  | 3,000      | 213,163           | -3,00      | 4,000    | 213,133 |          |  |
|               |          | 4,000             | 212,485  | 3,000            | 212,515  | -3,00    | 459+0.000  | 212,605      | 211,736      | 0,869         |                  | 3,000      | 212,515           | -3,00      | 4,000    | 212,485 |          |  |
|               |          | 4,000             | 211,631  | 3,000            | 211,661  | -3,00    | 460+0.000  | 211,751      | 210,610      | 1,141         |                  | 3,000      | 211,661           | -3,00      | 4,000    | 211,631 |          |  |
|               |          | 4,000             | 210,571  | 3,000            | 210,601  | -3,00    | 461+0.000  | 210,691      | 209,598      | 1,093         |                  | 3,000      | 210,601           | -3,00      | 4,000    | 210,571 |          |  |
|               |          | 4,000             | 209,408  | 3,000            | 209,438  | -3,00    | 462+0.000  | 209,528      | 208,547      | 0,981         |                  | 3,000      | 209,438           | -3,00      | 4,000    | 209,408 |          |  |
|               |          | 4,000             | 208,826  | 3,000            | 208,856  | -3,00    | 462+10.000 | 208,946      | 207,832      | 1,114         |                  | 3,000      | 208,856           | -3,00      | 4,000    | 208,826 |          |  |
|               |          | 4,000             | 208,274  | 3,000            | 208,304  | -3,00    | 463+0.000  | 208,394      | 207,457      | 0,937         |                  | 3,000      | 208,304           | -3,00      | 4,000    | 208,274 |          |  |
|               |          | 4,000             | 207,348  | 3,000            | 207,378  | -3,00    | 464+0.000  | 207,468      | 206,583      | 0,885         |                  | 3,000      | 207,378           | -3,00      | 4,000    | 207,348 |          |  |
|               |          | 4,000             | 206,660  | 3,000            | 206,690  | -3,00    | 465+0.000  | 206,780      | 205,907      | 0,873         |                  | 3,000      | 206,690           | -3,00      | 4,000    | 206,660 |          |  |
|               |          | 4,000             | 206,197  | 3,000            | 206,227  | -3,00    | 466+0.000  | 206,317      | 205,361      | 0,956         |                  | 3,000      | 206,227           | -3,00      | 4,000    | 206,197 |          |  |
|               |          | 4,000             | 205,880  | 3,000            | 205,910  | -3,00    | 467+0.000  | 206,000      | 205,037      | 0,963         |                  | 3,000      | 205,910           | -3,00      | 4,000    | 205,880 |          |  |
|               |          | 4,000             | 205,696  | 3,000            | 205,726  | -3,00    | 468+0.000  | 205,816      | 204,751      | 1,065         |                  | 3,000      | 205,726           | -3,00      | 4,000    | 205,696 |          |  |
|               |          | 4,000             | 205,646  | 3,000            | 205,676  | -3,00    | 468+17.425 | 205,766      | 204,536      | 1,230         |                  | 3,000      | 205,676           | -3,00      | 4,000    | 205,646 |          |  |
|               |          | 4,000             | 205,647  | 3,000            | 205,677  | -3,00    | 469+0.000  | 205,767      | 204,464      | 1,303         |                  | 3,000      | 205,677           | -3,00      | 4,000    | 205,647 |          |  |
|               |          | 4,000             | 205,672  | 3,000            | 205,702  | -3,00    | 469+10.000 | 205,792      | 204,473      | 1,319         |                  | 3,000      | 205,702           | -3,00      | 4,000    | 205,672 |          |  |
|               |          | 4,000             | 205,714  | 3,000            | 205,744  | -3,00    | 470+0.000  | 205,834      | 204,495      | 1,339         |                  | 3,000      | 205,744           | -3,00      | 4,000    | 205,714 |          |  |
|               |          | 4,000             | 205,798  | 3,000            | 205,828  | -3,00    | 471+0.000  | 205,918      | 204,544      | 1,374         |                  | 3,000      | 205,828           | -3,00      | 4,000    | 205,798 |          |  |
|               |          | 4,000             | 205,882  | 3,000            | 205,912  | -3,00    | 472+0.000  | 206,002      | 204,519      | 1,483         |                  | 3,000      | 205,912           | -3,00      | 4,000    | 205,882 |          |  |
|               |          | 4,000             | 205,966  | 3,000            | 205,996  | -3,00    | 473+0.000  | 206,086      | 204,551      | 1,535         |                  | 3,000      | 205,996           | -3,00      | 4,000    | 205,966 |          |  |
|               |          | 4,000             | 206,050  | 3,000            | 206,080  | -3,00    | 474+0.000  | 206,170      | 204,712      | 1,458         |                  | 3,000      | 206,080           | -3,00      | 4,000    | 206,050 |          |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |         |              |              | Eixo          |                  |          |                   | Lado Direito |          |       |         |  |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|---------|--------------|--------------|---------------|------------------|----------|-------------------|--------------|----------|-------|---------|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |              | Offset   |       |         |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |         |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)          | Afast. (m)   | Cota (m) |       |         |  |  |
| Afast. (m)    | Cota (m) |                   |          | 4,000            | 206,183  | 3,000    | 206,213 | -3,00        | 475+0.000    | 206,303       | 204,941          | 1,362    | 3,000             | 206,213      | -3,00    | 4,000 | 206,183 |  |  |
|               |          |                   |          | 4,000            | 206,412  | 3,000    | 206,442 | -3,00        | 476+0.000    | 206,532       | 205,015          | 1,517    | 3,000             | 206,442      | -3,00    | 4,000 | 206,412 |  |  |
|               |          |                   |          | 4,000            | 206,738  | 3,000    | 206,768 | -3,00        | 477+0.000    | 206,858       | 205,210          | 1,648    | 3,000             | 206,768      | -3,00    | 4,000 | 206,738 |  |  |
|               |          |                   |          | 4,000            | 207,161  | 3,000    | 207,191 | -3,00        | 478+0.000    | 207,281       | 205,689          | 1,592    | 3,000             | 207,191      | -3,00    | 4,000 | 207,161 |  |  |
|               |          |                   |          | 4,000            | 207,681  | 3,000    | 207,711 | -3,00        | 479+0.000    | 207,801       | 206,370          | 1,431    | 3,000             | 207,711      | -3,00    | 4,000 | 207,681 |  |  |
|               |          |                   |          | 4,000            | 208,298  | 3,000    | 208,328 | -3,00        | 480+0.000    | 208,418       | 206,926          | 1,492    | 3,000             | 208,328      | -3,00    | 4,000 | 208,298 |  |  |
|               |          |                   |          | 4,000            | 209,011  | 3,000    | 209,041 | -3,00        | 481+0.000    | 209,131       | 207,964          | 1,167    | 3,000             | 209,041      | -3,00    | 4,000 | 209,011 |  |  |
|               |          |                   |          | 4,000            | 209,773  | 3,000    | 209,803 | -3,00        | 482+0.000    | 209,893       | 209,184          | 0,709    | 3,000             | 209,803      | -3,00    | 4,000 | 209,773 |  |  |
|               |          |                   |          | 4,000            | 210,536  | 3,000    | 210,566 | -3,00        | 483+0.000    | 210,656       | 210,083          | 0,573    | 3,000             | 210,566      | -3,00    | 4,000 | 210,536 |  |  |
|               |          |                   |          | 4,000            | 211,298  | 3,000    | 211,328 | -3,00        | 484+0.000    | 211,418       | 211,047          | 0,371    | 3,000             | 211,328      | -3,00    | 4,000 | 211,298 |  |  |
|               |          |                   |          | 4,000            | 212,060  | 3,000    | 212,090 | -3,00        | 485+0.000    | 212,180       | 211,925          | 0,255    | 3,000             | 212,090      | -3,00    | 4,000 | 212,060 |  |  |
|               |          |                   |          | 4,000            | 212,822  | 3,000    | 212,852 | -3,00        | 486+0.000    | 212,942       | 212,493          | 0,449    | 3,000             | 212,852      | -3,00    | 4,000 | 212,822 |  |  |
|               |          |                   |          | 4,000            | 213,584  | 3,000    | 213,614 | -3,00        | 487+0.000    | 213,704       | 213,073          | 0,631    | 3,000             | 213,614      | -3,00    | 4,000 | 213,584 |  |  |
|               |          |                   |          | 4,000            | 214,346  | 3,000    | 214,376 | -3,00        | 488+0.000    | 214,466       | 213,758          | 0,708    | 3,000             | 214,376      | -3,00    | 4,000 | 214,346 |  |  |
|               |          |                   |          | 4,000            | 215,108  | 3,000    | 215,138 | -3,00        | 489+0.000    | 215,228       | 214,350          | 0,878    | 3,000             | 215,138      | -3,00    | 4,000 | 215,108 |  |  |
|               |          |                   |          | 4,000            | 215,870  | 3,000    | 215,900 | -3,00        | 490+0.000    | 215,990       | 215,016          | 0,974    | 3,000             | 215,900      | -3,00    | 4,000 | 215,870 |  |  |
|               |          |                   |          | 4,000            | 216,632  | 3,000    | 216,662 | -3,00        | 491+0.000    | 216,752       | 215,914          | 0,838    | 3,000             | 216,662      | -3,00    | 4,000 | 216,632 |  |  |
|               |          |                   |          | 4,000            | 217,127  | 3,000    | 217,157 | -3,00        | 491+13.000   | 217,247       | 216,575          | 0,672    | 3,000             | 217,157      | -3,00    | 4,000 | 217,127 |  |  |
|               |          |                   |          | 4,000            | 217,390  | 3,000    | 217,420 | -3,00        | 492+0.000    | 217,510       | 216,908          | 0,602    | 3,000             | 217,420      | -3,00    | 4,000 | 217,390 |  |  |
|               |          |                   |          | 4,000            | 218,098  | 3,000    | 218,128 | -3,00        | 493+0.000    | 218,218       | 217,864          | 0,354    | 3,000             | 218,128      | -3,00    | 4,000 | 218,098 |  |  |
|               |          |                   |          | 4,000            | 218,743  | 3,000    | 218,773 | -3,00        | 494+0.000    | 218,863       | 218,637          | 0,226    | 3,000             | 218,773      | -3,00    | 4,000 | 218,743 |  |  |
|               |          |                   |          | 4,000            | 219,324  | 3,000    | 219,354 | -3,00        | 495+0.000    | 219,444       | 219,379          | 0,065    | 3,000             | 219,354      | -3,00    | 4,000 | 219,324 |  |  |
|               |          |                   |          | 4,000            | 219,841  | 3,000    | 219,871 | -3,00        | 496+0.000    | 219,961       | 219,933          | 0,028    | 3,000             | 219,871      | -3,00    | 4,000 | 219,841 |  |  |
|               |          |                   |          | 4,000            | 220,296  | 3,000    | 220,326 | -3,00        | 497+0.000    | 220,416       | 220,464          | -0,048   | 3,000             | 220,326      | -3,00    | 4,000 | 220,296 |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |          |                  |          |          |            |              |              |               |            |          | Lado Direito |             |          |          |          |            |          |            |          |            |          |            |          |        |
|---------------|----------|-------------|----------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------|----------|--------------|-------------|----------|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|--------|
| Offset        |          |             |          |          |                  |          | Eixo     |            |              |              |               |            |          | Bordo        |             |          |          |          |            |          | Offset     |          |            |          |            |          |        |
| Afast. (m)    | Cota (m) | Acostamento |          |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo      |          |              | Acostamento |          |          | Ind. (%) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Offset |
|               |          | Afast. (m)  | Cota (m) | Ind. (%) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m) | Cota (m) | Ind. (%)     | Afast. (m)  | Cota (m) | Ind. (%) |          |            |          |            |          |            |          |            |          |        |
|               |          | 4,000       | 220,686  | -3,00    | 3,000            | 220,716  | -3,00    | 498+0,000  | 220,806      | 220,809      | -0,003        | 3,000      | 220,716  | -3,00        | 4,000       | 220,686  | -3,00    | 3,000    | 220,716    | -3,00    | 4,000      | 220,686  |            |          |            |          |        |
|               |          | 4,000       | 221,013  | -3,00    | 3,000            | 221,043  | -3,00    | 499+0,000  | 221,133      | 220,957      | 0,176         | 3,000      | 221,043  | -3,00        | 4,000       | 221,013  | -3,00    | 3,000    | 221,043    | -3,00    | 4,000      | 221,013  |            |          |            |          |        |
|               |          | 4,000       | 221,277  | -3,00    | 3,000            | 221,307  | -3,00    | 500+0,000  | 221,397      | 220,931      | 0,466         | 3,000      | 221,307  | -3,00        | 4,000       | 221,277  | -3,00    | 3,000    | 221,307    | -3,00    | 4,000      | 221,277  |            |          |            |          |        |
|               |          | 4,000       | 221,477  | -3,00    | 3,000            | 221,507  | -3,00    | 501+0,000  | 221,597      | 221,005      | 0,592         | 3,000      | 221,507  | -3,00        | 4,000       | 221,477  | -3,00    | 3,000    | 221,507    | -3,00    | 4,000      | 221,477  |            |          |            |          |        |
|               |          | 4,000       | 221,573  | -3,00    | 3,000            | 221,603  | -3,00    | 501+13,000 | 221,693      | 221,011      | 0,682         | 3,000      | 221,603  | -3,00        | 4,000       | 221,573  | -3,00    | 3,000    | 221,603    | -3,00    | 4,000      | 221,573  |            |          |            |          |        |
|               |          | 4,000       | 221,618  | -3,00    | 3,000            | 221,648  | -3,00    | 502+0,000  | 221,738      | 220,997      | 0,741         | 3,000      | 221,648  | -3,00        | 4,000       | 221,618  | -3,00    | 3,000    | 221,648    | -3,00    | 4,000      | 221,618  |            |          |            |          |        |
|               |          | 4,000       | 221,745  | -3,00    | 3,000            | 221,775  | -3,00    | 503+0,000  | 221,865      | 220,897      | 0,968         | 3,000      | 221,775  | -3,00        | 4,000       | 221,745  | -3,00    | 3,000    | 221,775    | -3,00    | 4,000      | 221,745  |            |          |            |          |        |
|               |          | 4,000       | 221,872  | -3,00    | 3,000            | 221,902  | -3,00    | 504+0,000  | 221,992      | 220,805      | 1,187         | 3,000      | 221,902  | -3,00        | 4,000       | 221,872  | -3,00    | 3,000    | 221,902    | -3,00    | 4,000      | 221,872  |            |          |            |          |        |
|               |          | 4,000       | 222,000  | -3,00    | 3,000            | 222,030  | -3,00    | 505+0,000  | 222,120      | 220,849      | 1,271         | 3,000      | 222,030  | -3,00        | 4,000       | 222,000  | -3,00    | 3,000    | 222,030    | -3,00    | 4,000      | 222,000  |            |          |            |          |        |
|               |          | 4,000       | 222,127  | -3,00    | 3,000            | 222,157  | -3,00    | 506+0,000  | 222,247      | 220,911      | 1,336         | 3,000      | 222,157  | -3,00        | 4,000       | 222,127  | -3,00    | 3,000    | 222,157    | -3,00    | 4,000      | 222,127  |            |          |            |          |        |
|               |          | 4,000       | 222,254  | -3,00    | 3,000            | 222,284  | -3,00    | 507+0,000  | 222,374      | 220,949      | 1,425         | 3,000      | 222,284  | -3,00        | 4,000       | 222,254  | -3,00    | 3,000    | 222,284    | -3,00    | 4,000      | 222,254  |            |          |            |          |        |
|               |          | 4,000       | 222,381  | -3,00    | 3,000            | 222,411  | -3,00    | 508+0,000  | 222,501      | 221,024      | 1,477         | 3,000      | 222,411  | -3,00        | 4,000       | 222,381  | -3,00    | 3,000    | 222,411    | -3,00    | 4,000      | 222,381  |            |          |            |          |        |
|               |          | 4,000       | 222,509  | -3,00    | 3,000            | 222,539  | -3,00    | 509+0,000  | 222,629      | 221,130      | 1,499         | 3,000      | 222,539  | -3,00        | 4,000       | 222,509  | -3,00    | 3,000    | 222,539    | -3,00    | 4,000      | 222,509  |            |          |            |          |        |
|               |          | 4,000       | 222,636  | -3,00    | 3,000            | 222,666  | -3,00    | 510+0,000  | 222,756      | 221,587      | 1,169         | 3,000      | 222,666  | -3,00        | 4,000       | 222,636  | -3,00    | 3,000    | 222,666    | -3,00    | 4,000      | 222,636  |            |          |            |          |        |
|               |          | 4,000       | 222,763  | -3,00    | 3,000            | 222,793  | -3,00    | 511+0,000  | 222,883      | 222,281      | 0,602         | 3,000      | 222,793  | -3,00        | 4,000       | 222,763  | -3,00    | 3,000    | 222,793    | -3,00    | 4,000      | 222,763  |            |          |            |          |        |
|               |          | 4,000       | 222,890  | -3,00    | 3,000            | 222,920  | -3,00    | 512+0,000  | 223,010      | 223,361      | -0,351        | 3,000      | 222,920  | -3,00        | 4,000       | 222,890  | -3,00    | 3,000    | 222,920    | -3,00    | 4,000      | 222,890  |            |          |            |          |        |
|               |          | 4,000       | 223,018  | -3,00    | 3,000            | 223,048  | -3,00    | 513+0,000  | 223,138      | 224,505      | -1,367        | 3,000      | 223,048  | -3,00        | 4,000       | 223,018  | -3,00    | 3,000    | 223,048    | -3,00    | 4,000      | 223,018  |            |          |            |          |        |
|               |          | 4,000       | 223,145  | -3,00    | 3,000            | 223,175  | -3,00    | 514+0,000  | 223,265      | 224,699      | -1,434        | 3,000      | 223,175  | -3,00        | 4,000       | 223,145  | -3,00    | 3,000    | 223,175    | -3,00    | 4,000      | 223,145  |            |          |            |          |        |
|               |          | 4,000       | 223,272  | -3,00    | 3,000            | 223,302  | -3,00    | 515+0,000  | 223,392      | 224,313      | -0,921        | 3,000      | 223,302  | -3,00        | 4,000       | 223,272  | -3,00    | 3,000    | 223,302    | -3,00    | 4,000      | 223,272  |            |          |            |          |        |
|               |          | 4,000       | 223,399  | -3,00    | 3,000            | 223,429  | -3,00    | 516+0,000  | 223,519      | 223,999      | -0,480        | 3,000      | 223,429  | -3,00        | 4,000       | 223,399  | -3,00    | 3,000    | 223,429    | -3,00    | 4,000      | 223,399  |            |          |            |          |        |
|               |          | 4,000       | 223,526  | -3,00    | 3,000            | 223,556  | -3,00    | 517+0,000  | 223,646      | 223,987      | -0,341        | 3,000      | 223,556  | -3,00        | 4,000       | 223,526  | -3,00    | 3,000    | 223,556    | -3,00    | 4,000      | 223,526  |            |          |            |          |        |
|               |          | 4,000       | 223,654  | -3,00    | 3,000            | 223,684  | -3,00    | 518+0,000  | 223,774      | 223,629      | 0,145         | 3,000      | 223,684  | -3,00        | 4,000       | 223,654  | -3,00    | 3,000    | 223,684    | -3,00    | 4,000      | 223,654  |            |          |            |          |        |
|               |          | 4,000       | 223,781  | -3,00    | 3,000            | 223,811  | -3,00    | 519+0,000  | 223,901      | 224,586      | -0,685        | 3,000      | 223,811  | -3,00        | 4,000       | 223,781  | -3,00    | 3,000    | 223,811    | -3,00    | 4,000      | 223,781  |            |          |            |          |        |
|               |          | 4,000       | 223,908  | -3,00    | 3,000            | 223,938  | -3,00    | 520+0,000  | 224,028      | 225,366      | -1,338        | 3,000      | 223,938  | -3,00        | 4,000       | 223,908  | -3,00    | 3,000    | 223,938    | -3,00    | 4,000      | 223,908  |            |          |            |          |        |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |          |          |            |              |              | Eixo          |                  |          |             | Lado Direito |         |  |          |  |  |  |  |
|---------------|----------|-------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-------------|--------------|---------|--|----------|--|--|--|--|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Acostamento |              | Offset  |  |          |  |  |  |  |
|               |          | Afast. (m)  | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)    | Afast. (m)   |         |  | Cota (m) |  |  |  |  |
| Afast. (m)    | Cota (m) | 4,000       | 224,035  | 3,000            | 224,065  | -3,00    | 521+0.000  | 224,155      | 226,071      | -1,916        | 3,000            | 224,065  | -3,00       | 4,000        | 224,035 |  |          |  |  |  |  |
|               |          | 4,000       | 224,163  | 3,000            | 224,193  | -3,00    | 522+0.000  | 224,283      | 226,059      | -1,776        | 3,000            | 224,193  | -3,00       | 4,000        | 224,163 |  |          |  |  |  |  |
|               |          | 4,000       | 224,290  | 3,000            | 224,320  | -3,00    | 523+0.000  | 224,410      | 225,229      | -0,819        | 3,000            | 224,320  | -3,00       | 4,000        | 224,290 |  |          |  |  |  |  |
|               |          | 4,000       | 224,417  | 3,000            | 224,447  | -3,00    | 524+0.000  | 224,537      | 224,188      | 0,349         | 3,000            | 224,447  | -3,00       | 4,000        | 224,417 |  |          |  |  |  |  |
|               |          | 4,000       | 224,544  | 3,000            | 224,574  | -3,00    | 525+0.000  | 224,664      | 222,771      | 1,893         | 3,000            | 224,574  | -3,00       | 4,000        | 224,544 |  |          |  |  |  |  |
|               |          | 4,000       | 224,672  | 3,000            | 224,702  | -3,00    | 526+0.000  | 224,792      | 221,671      | 3,121         | 3,000            | 224,702  | -3,00       | 4,000        | 224,672 |  |          |  |  |  |  |
|               |          | 4,000       | 224,799  | 3,000            | 224,829  | -3,00    | 527+0.000  | 224,919      | 221,159      | 3,760         | 3,000            | 224,829  | -3,00       | 4,000        | 224,799 |  |          |  |  |  |  |
|               |          | 4,000       | 224,926  | 3,000            | 224,956  | -3,00    | 528+0.000  | 225,046      | 221,392      | 3,654         | 3,000            | 224,956  | -3,00       | 4,000        | 224,926 |  |          |  |  |  |  |
|               |          | 4,000       | 225,053  | 3,000            | 225,083  | -3,00    | 529+0.000  | 225,173      | 222,599      | 2,574         | 3,000            | 225,083  | -3,00       | 4,000        | 225,053 |  |          |  |  |  |  |
|               |          | 4,000       | 225,180  | 3,000            | 225,210  | -3,00    | 530+0.000  | 225,300      | 224,543      | 0,757         | 3,000            | 225,210  | -3,00       | 4,000        | 225,180 |  |          |  |  |  |  |
|               |          | 4,000       | 225,308  | 3,000            | 225,338  | -3,00    | 531+0.000  | 225,428      | 226,525      | -1,097        | 3,000            | 225,338  | -3,00       | 4,000        | 225,308 |  |          |  |  |  |  |
|               |          | 4,000       | 225,435  | 3,000            | 225,465  | -3,00    | 532+0.000  | 225,555      | 227,876      | -2,321        | 3,000            | 225,465  | -3,00       | 4,000        | 225,435 |  |          |  |  |  |  |
|               |          | 4,000       | 225,562  | 3,000            | 225,592  | -3,00    | 533+0.000  | 225,682      | 228,734      | -3,052        | 3,000            | 225,592  | -3,00       | 4,000        | 225,562 |  |          |  |  |  |  |
|               |          | 4,000       | 225,689  | 3,000            | 225,719  | -3,00    | 534+0.000  | 225,809      | 229,010      | -3,201        | 3,000            | 225,719  | -3,00       | 4,000        | 225,689 |  |          |  |  |  |  |
|               |          | 4,000       | 225,782  | 3,000            | 225,812  | -3,00    | 534+14.591 | 225,902      | 228,840      | -2,938        | 3,000            | 225,812  | -3,00       | 4,000        | 225,782 |  |          |  |  |  |  |
|               |          | 4,000       | 225,782  | 3,000            | 225,812  | -3,00    | 534+14.598 | 225,902      | 228,840      | -2,938        | 3,000            | 225,812  | -3,00       | 4,000        | 225,782 |  |          |  |  |  |  |
|               |          | 4,000       | 225,817  | 3,000            | 225,847  | -3,00    | 535+0.000  | 225,937      | 228,690      | -2,753        | 3,000            | 225,847  | -3,00       | 4,000        | 225,817 |  |          |  |  |  |  |
|               |          | 4,000       | 225,944  | 3,000            | 225,974  | -3,00    | 536+0.000  | 226,064      | 227,801      | -1,737        | 3,000            | 225,974  | -3,00       | 4,000        | 225,944 |  |          |  |  |  |  |
|               |          | 4,000       | 226,071  | 3,000            | 226,101  | -3,00    | 537+0.000  | 226,191      | 226,591      | -0,400        | 3,000            | 226,101  | -3,00       | 4,000        | 226,071 |  |          |  |  |  |  |
|               |          | 4,000       | 226,198  | 3,000            | 226,228  | -3,00    | 538+0.000  | 226,318      | 225,012      | 1,306         | 3,000            | 226,228  | -3,00       | 4,000        | 226,198 |  |          |  |  |  |  |
|               |          | 4,000       | 226,326  | 3,000            | 226,356  | -3,00    | 539+0.000  | 226,446      | 223,499      | 2,947         | 3,000            | 226,356  | -3,00       | 4,000        | 226,326 |  |          |  |  |  |  |
|               |          | 4,000       | 226,453  | 3,000            | 226,483  | -3,00    | 540+0.000  | 226,573      | 222,469      | 4,104         | 3,000            | 226,483  | -3,00       | 4,000        | 226,453 |  |          |  |  |  |  |
|               |          | 4,000       | 226,580  | 3,000            | 226,610  | -3,00    | 541+0.000  | 226,700      | 222,016      | 4,684         | 3,000            | 226,610  | -3,00       | 4,000        | 226,580 |  |          |  |  |  |  |
|               |          | 4,000       | 226,707  | 3,000            | 226,737  | -3,00    | 542+0.000  | 226,827      | 221,997      | 4,830         | 3,000            | 226,737  | -3,00       | 4,000        | 226,707 |  |          |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |         |              | Eixo         |               |                  | Lado Direito |          |                   |          |            |          |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|---------|--------------|--------------|---------------|------------------|--------------|----------|-------------------|----------|------------|----------|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          |            | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |              |          | Bordo Acostamento |          | Offset     |          |  |
| Afast. (m)    | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) | Afast. (m) |         |              |              |               | Incl. (%)        | Afast. (m)   | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m) | Cota (m) |  |
|               |          | 4,000             | 226,834  | 3,000            | 226,864  | -3,00    | 543+0.000  | 226,954 | 222,356      | 4,598        |               | 3,000            | 226,864      | -3,00    | 4,000             | 226,834  |            |          |  |
|               |          | 4,000             | 226,962  | 3,000            | 226,992  | -3,00    | 544+0.000  | 227,082 | 222,986      | 4,096        |               | 3,000            | 226,992      | -3,00    | 4,000             | 226,962  |            |          |  |
|               |          | 4,000             | 227,089  | 3,000            | 227,119  | -3,00    | 545+0.000  | 227,209 | 223,932      | 3,277        |               | 3,000            | 227,119      | -3,00    | 4,000             | 227,089  |            |          |  |
|               |          | 4,000             | 227,216  | 3,000            | 227,246  | -3,00    | 546+0.000  | 227,336 | 225,377      | 1,959        |               | 3,000            | 227,246      | -3,00    | 4,000             | 227,216  |            |          |  |
|               |          | 4,000             | 227,343  | 3,000            | 227,373  | -3,00    | 547+0.000  | 227,463 | 226,775      | 0,688        |               | 3,000            | 227,373      | -3,00    | 4,000             | 227,343  |            |          |  |
|               |          | 4,000             | 227,471  | 3,000            | 227,501  | -3,00    | 548+0.000  | 227,591 | 227,935      | -0,344       |               | 3,000            | 227,501      | -3,00    | 4,000             | 227,471  |            |          |  |
|               |          | 4,000             | 227,598  | 3,000            | 227,628  | -3,00    | 549+0.000  | 227,718 | 229,355      | -1,637       |               | 3,000            | 227,628      | -3,00    | 4,000             | 227,598  |            |          |  |
|               |          | 4,000             | 227,661  | 3,000            | 227,691  | -3,00    | 549+10.000 | 227,781 | 229,970      | -2,189       |               | 3,000            | 227,691      | -3,00    | 4,000             | 227,661  |            |          |  |
|               |          | 4,000             | 227,722  | 3,000            | 227,752  | -3,00    | 550+0.000  | 227,842 | 230,304      | -2,462       |               | 3,000            | 227,752      | -3,00    | 4,000             | 227,722  |            |          |  |
|               |          | 4,000             | 227,823  | 3,000            | 227,853  | -3,00    | 551+0.000  | 227,943 | 230,226      | -2,283       |               | 3,000            | 227,853      | -3,00    | 4,000             | 227,823  |            |          |  |
|               |          | 4,000             | 227,899  | 3,000            | 227,929  | -3,00    | 552+0.000  | 228,019 | 229,993      | -1,974       |               | 3,000            | 227,929      | -3,00    | 4,000             | 227,899  |            |          |  |
|               |          | 4,000             | 227,948  | 3,000            | 227,978  | -3,00    | 553+0.000  | 228,068 | 228,665      | -0,597       |               | 3,000            | 227,978      | -3,00    | 4,000             | 227,948  |            |          |  |
|               |          | 4,000             | 227,972  | 3,000            | 228,002  | -3,00    | 554+0.000  | 228,092 | 227,781      | 0,311        |               | 3,000            | 228,002      | -3,00    | 4,000             | 227,972  |            |          |  |
|               |          | 4,000             | 227,974  | 3,000            | 228,004  | -3,00    | 554+8.256  | 228,094 | 227,486      | 0,608        |               | 3,000            | 228,004      | -3,00    | 4,000             | 227,974  |            |          |  |
|               |          | 4,000             | 227,970  | 3,000            | 228,000  | -3,00    | 555+0.000  | 228,090 | 226,343      | 1,747        |               | 3,000            | 228,000      | -3,00    | 4,000             | 227,970  |            |          |  |
|               |          | 4,000             | 227,941  | 3,000            | 227,971  | -3,00    | 556+0.000  | 228,061 | 226,575      | 1,486        |               | 3,000            | 227,971      | -3,00    | 4,000             | 227,941  |            |          |  |
|               |          | 4,000             | 227,918  | 3,000            | 227,948  | -3,00    | 556+10.000 | 228,038 | 226,887      | 1,151        |               | 3,000            | 227,948      | -3,00    | 4,000             | 227,918  |            |          |  |
|               |          | 4,000             | 227,891  | 3,000            | 227,921  | -3,00    | 557+0.000  | 228,011 | 226,736      | 1,275        |               | 3,000            | 227,921      | -3,00    | 4,000             | 227,891  |            |          |  |
|               |          | 4,000             | 227,836  | 3,000            | 227,866  | -3,00    | 558+0.000  | 227,956 | 226,896      | 1,060        |               | 3,000            | 227,866      | -3,00    | 4,000             | 227,836  |            |          |  |
|               |          | 4,000             | 227,782  | 3,000            | 227,812  | -3,00    | 559+0.000  | 227,902 | 226,842      | 1,060        |               | 3,000            | 227,812      | -3,00    | 4,000             | 227,782  |            |          |  |
|               |          | 4,000             | 227,728  | 3,000            | 227,758  | -3,00    | 560+0.000  | 227,848 | 226,913      | 0,935        |               | 3,000            | 227,758      | -3,00    | 4,000             | 227,728  |            |          |  |
|               |          | 4,000             | 227,674  | 3,000            | 227,704  | -3,00    | 561+0.000  | 227,794 | 226,836      | 0,958        |               | 3,000            | 227,704      | -3,00    | 4,000             | 227,674  |            |          |  |
|               |          | 4,000             | 227,620  | 3,000            | 227,650  | -3,00    | 562+0.000  | 227,740 | 226,602      | 1,138        |               | 3,000            | 227,650      | -3,00    | 4,000             | 227,620  |            |          |  |
|               |          | 4,000             | 227,566  | 3,000            | 227,596  | -3,00    | 563+0.000  | 227,686 | 226,195      | 1,491        |               | 3,000            | 227,596      | -3,00    | 4,000             | 227,566  |            |          |  |



## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |         |              | Eixo         |               |                  |          | Lado Direito |          |                   |            |         |  |          |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|---------|--------------|--------------|---------------|------------------|----------|--------------|----------|-------------------|------------|---------|--|----------|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          |            | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          |              |          | Bordo Acostamento |            | Offset  |  |          |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) | Afast. (m) |         |              |              |               | Cota (m)         | Ind. (%) | Afast. (m)   | Cota (m) | Ind. (%)          | Afast. (m) |         |  | Cota (m) |  |
| Afast. (m)    | Cota (m) | 4,000             | 227,512  | 3,000            | 227,542  | -3,00    | 564+0.000  | 227,632 | 225,374      | 2,258        | 3,000         | 227,542          | -3,00    | 227,512      | 4,000    | 227,512           | 4,000      | 227,512 |  |          |  |
|               |          | 4,000             | 227,458  | 3,000            | 227,488  | -3,00    | 565+0.000  | 227,578 | 224,517      | 3,061        | 3,000         | 227,488          | -3,00    | 227,458      |          |                   | 4,000      | 227,458 |  |          |  |
|               |          | 4,000             | 227,404  | 3,000            | 227,434  | -3,00    | 566+0.000  | 227,524 | 223,599      | 3,925        | 3,000         | 227,434          | -3,00    | 227,404      |          |                   | 4,000      | 227,404 |  |          |  |
|               |          | 4,000             | 227,350  | 3,000            | 227,380  | -3,00    | 567+0.000  | 227,470 | 222,938      | 4,532        | 3,000         | 227,380          | -3,00    | 227,350      |          |                   | 4,000      | 227,350 |  |          |  |
|               |          | 4,000             | 227,296  | 3,000            | 227,326  | -3,00    | 568+0.000  | 227,416 | 222,963      | 4,453        | 3,000         | 227,326          | -3,00    | 227,296      |          |                   | 4,000      | 227,296 |  |          |  |
|               |          | 4,000             | 227,242  | 3,000            | 227,272  | -3,00    | 569+0.000  | 227,362 | 223,591      | 3,771        | 3,000         | 227,272          | -3,00    | 227,242      |          |                   | 4,000      | 227,242 |  |          |  |
|               |          | 4,000             | 227,188  | 3,000            | 227,218  | -3,00    | 570+0.000  | 227,308 | 224,658      | 2,650        | 3,000         | 227,218          | -3,00    | 227,188      |          |                   | 4,000      | 227,188 |  |          |  |
|               |          | 4,000             | 227,134  | 3,000            | 227,164  | -3,00    | 571+0.000  | 227,254 | 225,881      | 1,373        | 3,000         | 227,164          | -3,00    | 227,134      |          |                   | 4,000      | 227,134 |  |          |  |
|               |          | 4,000             | 227,080  | 3,000            | 227,110  | -3,00    | 572+0.000  | 227,200 | 227,181      | 0,019        | 3,000         | 227,110          | -3,00    | 227,080      |          |                   | 4,000      | 227,080 |  |          |  |
|               |          | 4,000             | 227,026  | 3,000            | 227,056  | -3,00    | 573+0.000  | 227,146 | 227,790      | -0,644       | 3,000         | 227,056          | -3,00    | 227,026      |          |                   | 4,000      | 227,026 |  |          |  |
|               |          | 4,000             | 226,972  | 3,000            | 227,002  | -3,00    | 574+0.000  | 227,092 | 228,535      | -1,443       | 3,000         | 227,002          | -3,00    | 226,972      |          |                   | 4,000      | 226,972 |  |          |  |
|               |          | 4,000             | 226,918  | 3,000            | 226,948  | -3,00    | 575+0.000  | 227,038 | 229,038      | -2,000       | 3,000         | 226,948          | -3,00    | 226,918      |          |                   | 4,000      | 226,918 |  |          |  |
|               |          | 4,000             | 226,864  | 3,000            | 226,894  | -3,00    | 576+0.000  | 226,984 | 229,391      | -2,407       | 3,000         | 226,894          | -3,00    | 226,864      |          |                   | 4,000      | 226,864 |  |          |  |
|               |          | 4,000             | 226,809  | 3,000            | 226,839  | -3,00    | 577+0.000  | 226,929 | 229,368      | -2,439       | 3,000         | 226,839          | -3,00    | 226,809      |          |                   | 4,000      | 226,809 |  |          |  |
|               |          | 4,000             | 226,755  | 3,000            | 226,785  | -3,00    | 578+0.000  | 226,875 | 228,735      | -1,860       | 3,000         | 226,785          | -3,00    | 226,755      |          |                   | 4,000      | 226,755 |  |          |  |
|               |          | 4,000             | 226,701  | 3,000            | 226,731  | -3,00    | 579+0.000  | 226,821 | 228,246      | -1,425       | 3,000         | 226,731          | -3,00    | 226,701      |          |                   | 4,000      | 226,701 |  |          |  |
|               |          | 4,000             | 226,647  | 3,000            | 226,677  | -3,00    | 580+0.000  | 226,767 | 226,992      | -0,225       | 3,000         | 226,677          | -3,00    | 226,647      |          |                   | 4,000      | 226,647 |  |          |  |
|               |          | 4,000             | 226,593  | 3,000            | 226,623  | -3,00    | 581+0.000  | 226,713 | 225,450      | 1,263        | 3,000         | 226,623          | -3,00    | 226,593      |          |                   | 4,000      | 226,593 |  |          |  |
|               |          | 4,000             | 226,577  | 3,000            | 226,607  | -3,00    | 581+6.000  | 226,697 | 225,031      | 1,666        | 3,000         | 226,607          | -3,00    | 226,577      |          |                   | 4,000      | 226,577 |  |          |  |
|               |          | 4,000             | 226,548  | 3,000            | 226,578  | -3,00    | 582+0.000  | 226,668 | 224,134      | 2,534        | 3,000         | 226,578          | -3,00    | 226,548      |          |                   | 4,000      | 226,548 |  |          |  |
|               |          | 4,000             | 226,534  | 3,000            | 226,564  | -3,00    | 582+17.491 | 226,654 | 223,622      | 3,032        | 3,000         | 226,564          | -3,00    | 226,534      |          |                   | 4,000      | 226,534 |  |          |  |
|               |          | 4,000             | 226,535  | 3,000            | 226,565  | -3,00    | 583+0.000  | 226,655 | 223,574      | 3,081        | 3,000         | 226,565          | -3,00    | 226,535      |          |                   | 4,000      | 226,535 |  |          |  |
|               |          | 4,000             | 226,556  | 3,000            | 226,586  | -3,00    | 584+0.000  | 226,676 | 223,269      | 3,407        | 3,000         | 226,586          | -3,00    | 226,556      |          |                   | 4,000      | 226,556 |  |          |  |
|               |          | 4,000             | 226,612  | 3,000            | 226,642  | -3,00    | 585+0.000  | 226,732 | 223,227      | 3,505        | 3,000         | 226,642          | -3,00    | 226,612      |          |                   | 4,000      | 226,612 |  |          |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |        |              |              |               | Eixo             |            |                   | Lado Direito |          |  |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------------|--------------|----------|--|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |              | Offset   |  |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Incl. (%)        | Afast. (m) | Cota (m)          | Afast. (m)   | Cota (m) |  |  |  |  |
| Afast. (m)    | Cota (m) |                   |          |                  |          |        |              |              |               |                  |            |                   |              |          |  |  |  |  |
|               |          | 4,000             | 226,702  | 3,000            | 226,732  | -3,00  | 586+0.000    | 223,528      | 3,294         | 3,000            | 226,732    | -3,00             | 4,000        | 226,702  |  |  |  |  |
|               |          | 4,000             | 226,827  | 3,000            | 226,857  | -3,00  | 587+0.000    | 223,978      | 2,969         | 3,000            | 226,857    | -3,00             | 4,000        | 226,827  |  |  |  |  |
|               |          | 4,000             | 226,985  | 3,000            | 227,015  | -3,00  | 588+0.000    | 224,573      | 2,532         | 3,000            | 227,015    | -3,00             | 4,000        | 226,985  |  |  |  |  |
|               |          | 4,000             | 227,179  | 3,000            | 227,209  | -3,00  | 589+0.000    | 225,356      | 1,943         | 3,000            | 227,209    | -3,00             | 4,000        | 227,179  |  |  |  |  |
|               |          | 4,000             | 227,406  | 3,000            | 227,436  | -3,00  | 590+0.000    | 226,115      | 1,411         | 3,000            | 227,436    | -3,00             | 4,000        | 227,406  |  |  |  |  |
|               |          | 4,000             | 227,668  | 3,000            | 227,698  | -3,00  | 591+0.000    | 226,541      | 1,247         | 3,000            | 227,698    | -3,00             | 4,000        | 227,668  |  |  |  |  |
|               |          | 4,000             | 227,753  | 3,000            | 227,783  | -3,00  | 591+6.000    | 226,760      | 1,113         | 3,000            | 227,783    | -3,00             | 4,000        | 227,753  |  |  |  |  |
|               |          | 4,000             | 227,955  | 3,000            | 227,985  | -3,00  | 592+0.000    | 228,075      | 0,933         | 3,000            | 227,985    | -3,00             | 4,000        | 227,955  |  |  |  |  |
|               |          | 4,000             | 228,245  | 3,000            | 228,275  | -3,00  | 593+0.000    | 227,698      | 0,667         | 3,000            | 228,275    | -3,00             | 4,000        | 228,245  |  |  |  |  |
|               |          | 4,000             | 228,534  | 3,000            | 228,564  | -3,00  | 594+0.000    | 228,410      | 0,244         | 3,000            | 228,564    | -3,00             | 4,000        | 228,534  |  |  |  |  |
|               |          | 4,000             | 228,823  | 3,000            | 228,853  | -3,00  | 595+0.000    | 228,943      | 0,498         | 3,000            | 228,853    | -3,00             | 4,000        | 228,823  |  |  |  |  |
|               |          | 4,000             | 229,112  | 3,000            | 229,142  | -3,00  | 596+0.000    | 229,232      | 0,845         | 3,000            | 229,142    | -3,00             | 4,000        | 229,112  |  |  |  |  |
|               |          | 4,000             | 229,402  | 3,000            | 229,432  | -3,00  | 597+0.000    | 228,413      | 1,109         | 3,000            | 229,432    | -3,00             | 4,000        | 229,402  |  |  |  |  |
|               |          | 4,000             | 229,691  | 3,000            | 229,721  | -3,00  | 598+0.000    | 229,811      | 1,075         | 3,000            | 229,721    | -3,00             | 4,000        | 229,691  |  |  |  |  |
|               |          | 4,000             | 229,980  | 3,000            | 230,010  | -3,00  | 599+0.000    | 230,100      | 1,015         | 3,000            | 230,010    | -3,00             | 4,000        | 229,980  |  |  |  |  |
|               |          | 4,000             | 230,269  | 3,000            | 230,299  | -3,00  | 600+0.000    | 229,684      | 0,705         | 3,000            | 230,299    | -3,00             | 4,000        | 230,269  |  |  |  |  |
|               |          | 4,000             | 230,414  | 3,000            | 230,444  | -3,00  | 600+10.000   | 230,534      | 0,249         | 3,000            | 230,444    | -3,00             | 4,000        | 230,414  |  |  |  |  |
|               |          | 4,000             | 230,546  | 3,000            | 230,576  | -3,00  | 601+0.000    | 230,666      | -0,043        | 3,000            | 230,576    | -3,00             | 4,000        | 230,546  |  |  |  |  |
|               |          | 4,000             | 230,734  | 3,000            | 230,764  | -3,00  | 602+0.000    | 231,534      | -0,680        | 3,000            | 230,764    | -3,00             | 4,000        | 230,734  |  |  |  |  |
|               |          | 4,000             | 230,822  | 3,000            | 230,852  | -3,00  | 603+0.000    | 232,097      | -1,155        | 3,000            | 230,852    | -3,00             | 4,000        | 230,822  |  |  |  |  |
|               |          | 4,000             | 230,829  | 3,000            | 230,859  | -3,00  | 603+7.352    | 232,281      | -1,332        | 3,000            | 230,859    | -3,00             | 4,000        | 230,829  |  |  |  |  |
|               |          | 4,000             | 230,809  | 3,000            | 230,839  | -3,00  | 604+0.000    | 232,495      | -1,566        | 3,000            | 230,839    | -3,00             | 4,000        | 230,809  |  |  |  |  |
|               |          | 4,000             | 230,694  | 3,000            | 230,724  | -3,00  | 605+0.000    | 232,814      | -1,971        | 3,000            | 230,724    | -3,00             | 4,000        | 230,694  |  |  |  |  |
|               |          | 4,000             | 230,479  | 3,000            | 230,509  | -3,00  | 606+0.000    | 232,619      | -2,020        | 3,000            | 230,509    | -3,00             | 4,000        | 230,479  |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |         |                  |          |           |            |              |              | Eixo          |                  |          | Lado Direito |                   |          |            |  |  |
|---------------|----------|-------------------|---------|------------------|----------|-----------|------------|--------------|--------------|---------------|------------------|----------|--------------|-------------------|----------|------------|--|--|
| Offset        |          | Bordo Acostamento |         | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          |              | Bordo Acostamento |          | Offset     |  |  |
|               |          |                   |         | Afast. (m)       | Cota (m) | Incl. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)    | Afast. (m)        | Cota (m) | Afast. (m) |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 230,363 | 3,000            | 230,393  | -3,00     | 606+8.001  | 230,483      | 232,470      | -1,987        | 3,000            | 230,393  | -3,00        | 4,000             | 230,363  |            |  |  |
|               |          | 4,000             | 230,363 | 3,000            | 230,393  | -3,00     | 606+8.007  | 230,483      | 232,470      | -1,987        | 3,000            | 230,393  | -3,00        | 4,000             | 230,363  |            |  |  |
|               |          | 4,000             | 230,153 | 3,000            | 230,183  | -3,00     | 607+0.000  | 230,273      | 232,186      | -1,913        | 3,000            | 230,183  | -3,00        | 4,000             | 230,153  |            |  |  |
|               |          | 4,000             | 229,704 | 3,000            | 229,734  | -3,00     | 608+0.000  | 229,824      | 231,650      | -1,826        | 3,000            | 229,734  | -3,00        | 4,000             | 229,704  |            |  |  |
|               |          | 4,000             | 229,134 | 3,000            | 229,164  | -3,00     | 609+0.000  | 229,254      | 231,087      | -1,833        | 3,000            | 229,164  | -3,00        | 4,000             | 229,134  |            |  |  |
|               |          | 4,000             | 228,441 | 3,000            | 228,471  | -3,00     | 610+0.000  | 228,561      | 229,834      | -1,273        | 3,000            | 228,471  | -3,00        | 4,000             | 228,441  |            |  |  |
|               |          | 4,000             | 227,626 | 3,000            | 227,656  | -3,00     | 611+0.000  | 227,746      | 228,288      | -0,542        | 3,000            | 227,656  | -3,00        | 4,000             | 227,626  |            |  |  |
|               |          | 4,000             | 226,750 | 3,000            | 226,780  | -3,00     | 612+0.000  | 226,870      | 226,667      | 0,203         | 3,000            | 226,780  | -3,00        | 4,000             | 226,750  |            |  |  |
|               |          | 4,000             | 225,875 | 3,000            | 225,905  | -3,00     | 613+0.000  | 225,995      | 225,757      | 0,238         | 3,000            | 225,905  | -3,00        | 4,000             | 225,875  |            |  |  |
|               |          | 4,000             | 224,999 | 3,000            | 225,029  | -3,00     | 614+0.000  | 225,119      | 224,146      | 0,973         | 3,000            | 225,029  | -3,00        | 4,000             | 224,999  |            |  |  |
|               |          | 4,000             | 224,123 | 3,000            | 224,153  | -3,00     | 615+0.000  | 224,243      | 222,921      | 1,322         | 3,000            | 224,153  | -3,00        | 4,000             | 224,123  |            |  |  |
|               |          | 4,000             | 223,337 | 3,000            | 223,367  | -3,00     | 616+0.000  | 223,457      | 221,968      | 1,489         | 3,000            | 223,367  | -3,00        | 4,000             | 223,337  |            |  |  |
|               |          | 4,000             | 222,730 | 3,000            | 222,760  | -3,00     | 617+0.000  | 222,850      | 219,898      | 2,952         | 3,000            | 222,760  | -3,00        | 4,000             | 222,730  |            |  |  |
|               |          | 4,000             | 222,302 | 3,000            | 222,332  | -3,00     | 618+0.000  | 222,422      | 219,448      | 2,974         | 3,000            | 222,332  | -3,00        | 4,000             | 222,302  |            |  |  |
|               |          | 4,000             | 222,054 | 3,000            | 222,084  | -3,00     | 619+0.000  | 222,174      | 219,810      | 2,364         | 3,000            | 222,084  | -3,00        | 4,000             | 222,054  |            |  |  |
|               |          | 4,000             | 221,984 | 3,000            | 222,014  | -3,00     | 619+17.714 | 222,104      | 218,400      | 3,704         | 3,000            | 222,014  | -3,00        | 4,000             | 221,984  |            |  |  |
|               |          | 4,000             | 221,985 | 3,000            | 222,015  | -3,00     | 620+0.000  | 222,105      | 218,444      | 3,661         | 3,000            | 222,015  | -3,00        | 4,000             | 221,985  |            |  |  |
|               |          | 4,000             | 222,095 | 3,000            | 222,125  | -3,00     | 621+0.000  | 222,215      | 218,879      | 3,336         | 3,000            | 222,125  | -3,00        | 4,000             | 222,095  |            |  |  |
|               |          | 4,000             | 222,384 | 3,000            | 222,414  | -3,00     | 622+0.000  | 222,504      | 219,622      | 2,882         | 3,000            | 222,414  | -3,00        | 4,000             | 222,384  |            |  |  |
|               |          | 4,000             | 222,853 | 3,000            | 222,883  | -3,00     | 623+0.000  | 222,973      | 220,545      | 2,428         | 3,000            | 222,883  | -3,00        | 4,000             | 222,853  |            |  |  |
|               |          | 4,000             | 223,501 | 3,000            | 223,531  | -3,00     | 624+0.000  | 223,621      | 221,377      | 2,244         | 3,000            | 223,531  | -3,00        | 4,000             | 223,501  |            |  |  |
|               |          | 4,000             | 224,328 | 3,000            | 224,358  | -3,00     | 625+0.000  | 224,448      | 223,112      | 1,336         | 3,000            | 224,358  | -3,00        | 4,000             | 224,328  |            |  |  |
|               |          | 4,000             | 225,334 | 3,000            | 225,364  | -3,00     | 626+0.000  | 225,454      | 224,638      | 0,816         | 3,000            | 225,364  | -3,00        | 4,000             | 225,334  |            |  |  |
|               |          | 4,000             | 226,430 | 3,000            | 226,460  | -3,00     | 627+0.000  | 226,550      | 226,173      | 0,377         | 3,000            | 226,460  | -3,00        | 4,000             | 226,430  |            |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |            |                   |          |                  |          |           |         |              |              | Eixo          |                  |          |                   | Lado Direito |          |       |         |  |  |
|---------------|------------|-------------------|----------|------------------|----------|-----------|---------|--------------|--------------|---------------|------------------|----------|-------------------|--------------|----------|-------|---------|--|--|
| Offset        |            | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |              | Offset   |       |         |  |  |
|               |            | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |         |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m)   | Cota (m) |       |         |  |  |
|               | Afast. (m) |                   |          | 4,000            | 227,526  | 3,000     | 227,556 | -3,00        | 628+0.000    | 227,646       | 228,091          | -0,445   | 3,000             | 227,556      | -3,00    | 4,000 | 227,526 |  |  |
|               |            |                   |          | 4,000            | 228,532  | 3,000     | 228,562 | -3,00        | 629+0.000    | 228,652       | 229,953          | -1,301   | 3,000             | 228,562      | -3,00    | 4,000 | 228,532 |  |  |
|               |            |                   |          | 4,000            | 229,359  | 3,000     | 229,389 | -3,00        | 630+0.000    | 229,479       | 230,394          | -0,915   | 3,000             | 229,389      | -3,00    | 4,000 | 229,359 |  |  |
|               |            |                   |          | 4,000            | 230,006  | 3,000     | 230,036 | -3,00        | 631+0.000    | 230,126       | 230,009          | 0,117    | 3,000             | 230,036      | -3,00    | 4,000 | 230,006 |  |  |
|               |            |                   |          | 4,000            | 230,474  | 3,000     | 230,504 | -3,00        | 632+0.000    | 230,594       | 229,750          | 0,844    | 3,000             | 230,504      | -3,00    | 4,000 | 230,474 |  |  |
|               |            |                   |          | 4,000            | 230,761  | 3,000     | 230,791 | -3,00        | 633+0.000    | 230,881       | 229,987          | 0,894    | 3,000             | 230,791      | -3,00    | 4,000 | 230,761 |  |  |
|               |            |                   |          | 4,000            | 230,870  | 3,000     | 230,900 | -3,00        | 634+0.000    | 230,990       | 230,634          | 0,356    | 3,000             | 230,900      | -3,00    | 4,000 | 230,870 |  |  |
|               |            |                   |          | 4,000            | 230,871  | 3,000     | 230,901 | -3,00        | 634+2.057    | 230,991       | 230,692          | 0,299    | 3,000             | 230,901      | -3,00    | 4,000 | 230,871 |  |  |
|               |            |                   |          | 4,000            | 230,798  | 3,000     | 230,828 | -3,00        | 635+0.000    | 230,918       | 231,633          | -0,715   | 3,000             | 230,828      | -3,00    | 4,000 | 230,798 |  |  |
|               |            |                   |          | 4,000            | 230,547  | 3,000     | 230,577 | -3,00        | 636+0.000    | 230,667       | 232,250          | -1,583   | 3,000             | 230,577      | -3,00    | 4,000 | 230,547 |  |  |
|               |            |                   |          | 4,000            | 230,117  | 3,000     | 230,147 | -3,00        | 637+0.000    | 230,237       | 231,493          | -1,256   | 3,000             | 230,147      | -3,00    | 4,000 | 230,117 |  |  |
|               |            |                   |          | 4,000            | 229,507  | 3,000     | 229,537 | -3,00        | 638+0.000    | 229,627       | 230,711          | -1,084   | 3,000             | 229,537      | -3,00    | 4,000 | 229,507 |  |  |
|               |            |                   |          | 4,000            | 228,807  | 3,000     | 228,837 | -3,00        | 639+0.000    | 228,927       | 229,202          | -0,275   | 3,000             | 228,837      | -3,00    | 4,000 | 228,807 |  |  |
|               |            |                   |          | 4,000            | 228,107  | 3,000     | 228,137 | -3,00        | 640+0.000    | 228,227       | 228,211          | 0,016    | 3,000             | 228,137      | -3,00    | 4,000 | 228,107 |  |  |
|               |            |                   |          | 4,000            | 227,407  | 3,000     | 227,437 | -3,00        | 641+0.000    | 227,527       | 226,814          | 0,713    | 3,000             | 227,437      | -3,00    | 4,000 | 227,407 |  |  |
|               |            |                   |          | 4,000            | 226,794  | 3,000     | 226,824 | -3,00        | 642+0.000    | 226,914       | 225,552          | 1,362    | 3,000             | 226,824      | -3,00    | 4,000 | 226,794 |  |  |
|               |            |                   |          | 4,000            | 226,354  | 3,000     | 226,384 | -3,00        | 643+0.000    | 226,474       | 224,549          | 1,925    | 3,000             | 226,384      | -3,00    | 4,000 | 226,354 |  |  |
|               |            |                   |          | 4,000            | 226,087  | 3,000     | 226,117 | -3,00        | 644+0.000    | 226,207       | 223,874          | 2,333    | 3,000             | 226,117      | -3,00    | 4,000 | 226,087 |  |  |
|               |            |                   |          | 4,000            | 225,994  | 3,000     | 226,024 | -3,00        | 645+0.000    | 226,114       | 223,265          | 2,849    | 3,000             | 226,024      | -3,00    | 4,000 | 225,994 |  |  |
|               |            |                   |          | 4,000            | 225,994  | 3,000     | 226,024 | -3,00        | 645+0.763    | 226,114       | 223,257          | 2,857    | 3,000             | 226,024      | -3,00    | 4,000 | 225,994 |  |  |
|               |            |                   |          | 4,000            | 226,074  | 3,000     | 226,104 | -3,00        | 646+0.000    | 226,194       | 223,160          | 3,034    | 3,000             | 226,104      | -3,00    | 4,000 | 226,074 |  |  |
|               |            |                   |          | 4,000            | 226,328  | 3,000     | 226,358 | -3,00        | 647+0.000    | 226,448       | 223,611          | 2,837    | 3,000             | 226,358      | -3,00    | 4,000 | 226,328 |  |  |
|               |            |                   |          | 4,000            | 226,754  | 3,000     | 226,784 | -3,00        | 648+0.000    | 226,874       | 223,814          | 3,060    | 3,000             | 226,784      | -3,00    | 4,000 | 226,754 |  |  |
|               |            |                   |          | 4,000            | 227,354  | 3,000     | 227,384 | -3,00        | 649+0.000    | 227,474       | 224,645          | 2,829    | 3,000             | 227,384      | -3,00    | 4,000 | 227,354 |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |          |           |            |              |              | Eixo          |                  | Lado Direito |           |            |          |            |          |
|---------------|----------|-------------|----------|------------------|----------|-----------|------------|--------------|--------------|---------------|------------------|--------------|-----------|------------|----------|------------|----------|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |          | Incl. (%) | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista | Acostamento  |           | Bordo      |          | Offset     |          |
| Afast. (m)    | Cota (m) | Afast. (m)  | Cota (m) | Afast. (m)       | Cota (m) |           |            |              |              |               | Afast. (m)       | Cota (m)     | Incl. (%) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |
|               |          | 4,000       | 228,128  | 3,000            | 228,158  | -3,00     | 650+0.000  | 228,248      | 225,851      | 2,397         | 228,158          | 3,000        | -3,00     | 4,000      | 228,128  |            |          |
|               |          | 4,000       | 228,579  | 3,000            | 228,609  | -3,00     | 650+9.989  | 228,699      | 227,149      | 1,550         | 228,609          | 3,000        | -3,00     | 4,000      | 228,579  |            |          |
|               |          | 4,429       | 229,061  | 3,429            | 229,091  | -3,00     | 651+0.000  | 229,194      | 227,433      | 1,761         | 229,091          | 3,429        | -3,00     | 4,429      | 229,061  |            |          |
|               |          | 5,286       | 230,069  | 4,286            | 230,099  | -3,00     | 652+0.000  | 230,228      | 228,981      | 1,247         | 230,099          | 4,286        | -3,00     | 5,286      | 230,069  |            |          |
|               |          | 5,500       | 230,321  | 4,500            | 230,351  | -3,00     | 652+5.000  | 230,486      | 229,486      | 1,000         | 230,351          | 4,500        | -3,00     | 5,500      | 230,321  |            |          |
|               |          | 6,143       | 231,038  | 5,143            | 231,068  | -3,00     | 653+0.000  | 231,222      | 230,750      | 0,472         | 231,068          | 5,143        | -3,00     | 6,143      | 231,038  |            |          |
|               |          | 7,000       | 231,870  | 6,000            | 231,900  | -3,00     | 653+19.989 | 232,080      | 232,127      | -0,047        | 231,900          | 6,000        | -3,00     | 7,000      | 231,870  |            |          |
|               |          | 7,000       | 231,871  | 6,000            | 231,901  | -3,00     | 654+0.000  | 232,081      | 232,127      | -0,046        | 231,901          | 6,000        | -3,00     | 7,000      | 231,871  |            |          |
|               |          | 7,000       | 232,591  | 6,000            | 232,621  | -3,00     | 655+0.000  | 232,801      | 233,015      | -0,214        | 232,621          | 6,000        | -3,00     | 7,000      | 232,591  |            |          |
|               |          | 7,000       | 233,171  | 6,000            | 233,201  | -3,00     | 656+0.000  | 233,381      | 233,592      | -0,211        | 233,201          | 6,000        | -3,00     | 7,000      | 233,171  |            |          |
|               |          | 7,000       | 233,613  | 6,000            | 233,643  | -3,00     | 657+0.000  | 233,823      | 233,937      | -0,114        | 233,643          | 6,000        | -3,00     | 7,000      | 233,613  |            |          |
|               |          | 7,000       | 233,915  | 6,000            | 233,945  | -3,00     | 658+0.000  | 234,125      | 234,136      | -0,011        | 233,945          | 6,000        | -3,00     | 7,000      | 233,915  |            |          |
|               |          | 7,000       | 234,078  | 6,000            | 234,108  | -3,00     | 659+0.000  | 234,288      | 234,027      | 0,261         | 234,108          | 6,000        | -3,00     | 7,000      | 234,078  |            |          |
|               |          | 7,000       | 234,109  | 6,000            | 234,139  | -3,00     | 659+13.383 | 234,319      | 234,080      | 0,239         | 234,139          | 6,000        | -3,00     | 7,000      | 234,109  |            |          |
|               |          | 7,000       | 234,101  | 6,000            | 234,131  | -3,00     | 660+0.000  | 234,311      | 233,920      | 0,391         | 234,131          | 6,000        | -3,00     | 7,000      | 234,101  |            |          |
|               |          | 7,000       | 233,986  | 6,000            | 234,016  | -3,00     | 661+0.000  | 234,196      | 233,641      | 0,555         | 234,016          | 6,000        | -3,00     | 7,000      | 233,986  |            |          |
|               |          | 7,000       | 233,731  | 6,000            | 233,761  | -3,00     | 662+0.000  | 233,941      | 233,497      | 0,444         | 233,761          | 6,000        | -3,00     | 7,000      | 233,731  |            |          |
|               |          | 7,000       | 233,645  | 6,000            | 233,675  | -3,00     | 662+5.000  | 233,855      | 233,415      | 0,440         | 233,675          | 6,000        | -3,00     | 7,000      | 233,645  |            |          |
|               |          | 7,000       | 233,376  | 6,000            | 233,406  | -3,00     | 663+0.000  | 233,586      | 233,171      | 0,415         | 233,406          | 6,000        | -3,00     | 7,000      | 233,376  |            |          |
|               |          | 7,000       | 233,016  | 6,000            | 233,046  | -3,00     | 664+0.000  | 233,226      | 232,577      | 0,649         | 233,046          | 6,000        | -3,00     | 7,000      | 233,016  |            |          |
|               |          | 7,000       | 232,657  | 6,000            | 232,687  | -3,00     | 665+0.000  | 232,867      | 232,091      | 0,776         | 232,687          | 6,000        | -3,00     | 7,000      | 232,657  |            |          |
|               |          | 7,000       | 232,297  | 6,000            | 232,327  | -3,00     | 666+0.000  | 232,507      | 231,764      | 0,743         | 232,327          | 6,000        | -3,00     | 7,000      | 232,297  |            |          |
|               |          | 7,000       | 231,980  | 6,000            | 232,010  | -3,00     | 667+0.000  | 232,190      | 231,480      | 0,710         | 232,010          | 6,000        | -3,00     | 7,000      | 231,980  |            |          |
|               |          | 7,000       | 231,805  | 6,000            | 231,835  | -3,00     | 667+14.211 | 232,015      | 231,316      | 0,699         | 231,835          | 6,000        | -3,00     | 7,000      | 231,805  |            |          |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |                   |          |            |                  |          |           |        |              |              | Eixo          |       | Lado Direito     |          |                   |          |            |          |
|---------------|-------------------|----------|------------|------------------|----------|-----------|--------|--------------|--------------|---------------|-------|------------------|----------|-------------------|----------|------------|----------|
| Offset        | Bordo Acostamento |          |            | Bordo Semi-Pista |          |           | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha |       | Bordo Semi-Pista |          | Bordo Acostamento |          | Offset     |          |
|               | Afast. (m)        | Cota (m) | Afast. (m) | Afast. (m)       | Cota (m) | Incl. (%) |        |              |              |               |       | Afast. (m)       | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m) | Cota (m) |
|               |                   |          | 6,752      | 231,753          | 5,752    | 231,783   | -3,00  | 668+0.000    | 231,956      | 231,236       | 0,720 | 5,752            | 231,783  | -3,00             | 6,752    | 231,753    |          |
|               |                   |          | 5,895      | 231,629          | 4,895    | 231,659   | -3,00  | 669+0.000    | 231,806      | 231,223       | 0,583 | 4,895            | 231,659  | -3,00             | 5,895    | 231,629    |          |
|               |                   |          | 5,038      | 231,590          | 4,038    | 231,620   | -3,00  | 670+0.000    | 231,741      | 231,013       | 0,728 | 4,038            | 231,620  | -3,00             | 5,038    | 231,590    |          |
|               |                   |          | 4,794      | 231,593          | 3,794    | 231,623   | -3,00  | 670+5.689    | 231,737      | 231,131       | 0,606 | 3,794            | 231,623  | -3,00             | 4,794    | 231,593    |          |
|               |                   |          | 4,180      | 231,634          | 3,180    | 231,664   | -3,00  | 671+0.000    | 231,759      | 231,100       | 0,659 | 3,180            | 231,664  | -3,00             | 4,180    | 231,634    |          |
|               |                   |          | 4,000      | 231,653          | 3,000    | 231,683   | -3,00  | 671+4.211    | 231,773      | 230,878       | 0,895 | 3,000            | 231,683  | -3,00             | 4,000    | 231,653    |          |
|               |                   |          | 4,000      | 231,741          | 3,000    | 231,771   | -3,00  | 672+0.000    | 231,861      | 231,003       | 0,858 | 3,000            | 231,771  | -3,00             | 4,000    | 231,741    |          |
|               |                   |          | 4,000      | 231,945          | 3,000    | 231,975   | -3,00  | 673+0.000    | 232,065      | 231,189       | 0,876 | 3,000            | 231,975  | -3,00             | 4,000    | 231,945    |          |
|               |                   |          | 4,000      | 232,270          | 3,000    | 232,300   | -3,00  | 674+0.000    | 232,390      | 231,373       | 1,017 | 3,000            | 232,300  | -3,00             | 4,000    | 232,270    |          |
|               |                   |          | 4,000      | 232,716          | 3,000    | 232,746   | -3,00  | 675+0.000    | 232,836      | 231,455       | 1,381 | 3,000            | 232,746  | -3,00             | 4,000    | 232,716    |          |
|               |                   |          | 4,000      | 233,283          | 3,000    | 233,313   | -3,00  | 676+0.000    | 233,403      | 232,441       | 0,962 | 3,000            | 233,313  | -3,00             | 4,000    | 233,283    |          |
|               |                   |          | 4,000      | 233,970          | 3,000    | 234,000   | -3,00  | 677+0.000    | 234,090      | 233,015       | 1,075 | 3,000            | 234,000  | -3,00             | 4,000    | 233,970    |          |
|               |                   |          | 4,000      | 234,344          | 3,000    | 234,374   | -3,00  | 677+10.000   | 234,464      | 233,476       | 0,988 | 3,000            | 234,374  | -3,00             | 4,000    | 234,344    |          |
|               |                   |          | 4,000      | 234,702          | 3,000    | 234,732   | -3,00  | 678+0.000    | 234,822      | 233,910       | 0,912 | 3,000            | 234,732  | -3,00             | 4,000    | 234,702    |          |
|               |                   |          | 4,000      | 235,319          | 3,000    | 235,349   | -3,00  | 679+0.000    | 235,439      | 234,949       | 0,490 | 3,000            | 235,349  | -3,00             | 4,000    | 235,319    |          |
|               |                   |          | 4,000      | 235,804          | 3,000    | 235,834   | -3,00  | 680+0.000    | 235,924      | 235,321       | 0,603 | 3,000            | 235,834  | -3,00             | 4,000    | 235,804    |          |
|               |                   |          | 4,000      | 236,159          | 3,000    | 236,189   | -3,00  | 681+0.000    | 236,279      | 235,939       | 0,340 | 3,000            | 236,189  | -3,00             | 4,000    | 236,159    |          |
|               |                   |          | 4,000      | 236,382          | 3,000    | 236,412   | -3,00  | 682+0.000    | 236,502      | 236,256       | 0,246 | 3,000            | 236,412  | -3,00             | 4,000    | 236,382    |          |
|               |                   |          | 4,000      | 236,473          | 3,000    | 236,503   | -3,00  | 683+0.000    | 236,593      | 236,379       | 0,214 | 3,000            | 236,503  | -3,00             | 4,000    | 236,473    |          |
|               |                   |          | 4,000      | 236,476          | 3,000    | 236,506   | -3,00  | 683+3.992    | 236,596      | 236,403       | 0,193 | 3,000            | 236,506  | -3,00             | 4,000    | 236,476    |          |
|               |                   |          | 4,000      | 236,457          | 3,000    | 236,487   | -3,00  | 683+14.813   | 236,577      | 236,468       | 0,109 | 3,000            | 236,487  | -3,00             | 4,000    | 236,457    |          |
|               |                   |          | 4,000      | 236,457          | 3,000    | 236,487   | -3,00  | 683+14.823   | 236,577      | 236,468       | 0,109 | 3,000            | 236,487  | -3,00             | 4,000    | 236,457    |          |
|               |                   |          | 4,000      | 236,434          | 3,000    | 236,464   | -3,00  | 684+0.000    | 236,554      | 236,478       | 0,076 | 3,000            | 236,464  | -3,00             | 4,000    | 236,434    |          |
|               |                   |          | 4,000      | 236,263          | 3,000    | 236,293   | -3,00  | 685+0.000    | 236,383      | 236,381       | 0,002 | 3,000            | 236,293  | -3,00             | 4,000    | 236,263    |          |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |            |                   |          |                  |            |           |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |         |        |  |
|---------------|------------|-------------------|----------|------------------|------------|-----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|---------|--------|--|
| Offset        |            | Bordo Acostamento |          | Bordo Semi-Pista |            |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |         |        |  |
|               |            | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m)   | Incl. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) |         |        |  |
|               | Afast. (m) |                   | Cota (m) |                  | Afast. (m) |           | Cota (m)   |              | Incl. (%)    |               |                  |          | Afast. (m)        |            | Cota (m) |         | Offset |  |
|               |            | 4,000             | 235,961  | 3,000            | 235,991    | -3,00     | 686+0.000  | 236,081      | 235,818      | 0,263         |                  | 3,000    | 235,991           | -3,00      | 4,000    | 235,961 |        |  |
|               |            | 4,000             | 235,528  | 3,000            | 235,558    | -3,00     | 687+0.000  | 235,648      | 235,710      | -0,062        |                  | 3,000    | 235,558           | -3,00      | 4,000    | 235,528 |        |  |
|               |            | 4,000             | 234,964  | 3,000            | 234,994    | -3,00     | 688+0.000  | 235,084      | 234,665      | 0,419         |                  | 3,000    | 234,994           | -3,00      | 4,000    | 234,964 |        |  |
|               |            | 4,000             | 234,268  | 3,000            | 234,298    | -3,00     | 689+0.000  | 234,388      | 233,988      | 0,400         |                  | 3,000    | 234,298           | -3,00      | 4,000    | 234,268 |        |  |
|               |            | 4,000             | 233,441  | 3,000            | 233,471    | -3,00     | 690+0.000  | 233,561      | 233,185      | 0,376         |                  | 3,000    | 233,471           | -3,00      | 4,000    | 233,441 |        |  |
|               |            | 4,000             | 232,979  | 3,000            | 233,009    | -3,00     | 690+10.000 | 233,099      | 232,813      | 0,286         |                  | 3,000    | 233,009           | -3,00      | 4,000    | 232,979 |        |  |
|               |            | 4,000             | 232,500  | 3,000            | 232,530    | -3,00     | 691+0.000  | 232,620      | 232,348      | 0,272         |                  | 3,000    | 232,530           | -3,00      | 4,000    | 232,500 |        |  |
|               |            | 4,000             | 231,542  | 3,000            | 231,572    | -3,00     | 692+0.000  | 231,662      | 231,265      | 0,397         |                  | 3,000    | 231,572           | -3,00      | 4,000    | 231,542 |        |  |
|               |            | 4,000             | 230,584  | 3,000            | 230,614    | -3,00     | 693+0.000  | 230,704      | 229,798      | 0,906         |                  | 3,000    | 230,614           | -3,00      | 4,000    | 230,584 |        |  |
|               |            | 4,000             | 229,696  | 3,000            | 229,726    | -3,00     | 694+0.000  | 229,816      | 228,621      | 1,195         |                  | 3,000    | 229,726           | -3,00      | 4,000    | 229,696 |        |  |
|               |            | 4,000             | 228,950  | 3,000            | 228,980    | -3,00     | 695+0.000  | 229,070      | 227,521      | 1,549         |                  | 3,000    | 228,980           | -3,00      | 4,000    | 228,950 |        |  |
|               |            | 4,000             | 228,344  | 3,000            | 228,374    | -3,00     | 696+0.000  | 228,464      | 226,452      | 2,012         |                  | 3,000    | 228,374           | -3,00      | 4,000    | 228,344 |        |  |
|               |            | 4,000             | 227,879  | 3,000            | 227,909    | -3,00     | 697+0.000  | 227,999      | 225,492      | 2,507         |                  | 3,000    | 227,909           | -3,00      | 4,000    | 227,879 |        |  |
|               |            | 4,000             | 227,556  | 3,000            | 227,586    | -3,00     | 698+0.000  | 227,676      | 224,952      | 2,724         |                  | 3,000    | 227,586           | -3,00      | 4,000    | 227,556 |        |  |
|               |            | 4,000             | 227,373  | 3,000            | 227,403    | -3,00     | 699+0.000  | 227,493      | 224,518      | 2,975         |                  | 3,000    | 227,403           | -3,00      | 4,000    | 227,373 |        |  |
|               |            | 4,000             | 227,329  | 3,000            | 227,359    | -3,00     | 699+15.891 | 227,449      | 224,685      | 2,764         |                  | 3,000    | 227,359           | -3,00      | 4,000    | 227,329 |        |  |
|               |            | 4,000             | 227,332  | 3,000            | 227,362    | -3,00     | 700+0.000  | 227,452      | 224,805      | 2,647         |                  | 3,000    | 227,362           | -3,00      | 4,000    | 227,332 |        |  |
|               |            | 4,000             | 227,431  | 3,000            | 227,461    | -3,00     | 701+0.000  | 227,551      | 225,362      | 2,189         |                  | 3,000    | 227,461           | -3,00      | 4,000    | 227,431 |        |  |
|               |            | 4,000             | 227,672  | 3,000            | 227,702    | -3,00     | 702+0.000  | 227,792      | 226,896      | 0,896         |                  | 3,000    | 227,702           | -3,00      | 4,000    | 227,672 |        |  |
|               |            | 4,000             | 228,053  | 3,000            | 228,083    | -3,00     | 703+0.000  | 228,173      | 228,283      | -0,110        |                  | 3,000    | 228,083           | -3,00      | 4,000    | 228,053 |        |  |
|               |            | 4,000             | 228,576  | 3,000            | 228,606    | -3,00     | 704+0.000  | 228,696      | 230,007      | -1,311        |                  | 3,000    | 228,606           | -3,00      | 4,000    | 228,576 |        |  |
|               |            | 4,000             | 229,239  | 3,000            | 229,269    | -3,00     | 705+0.000  | 229,359      | 231,339      | -1,980        |                  | 3,000    | 229,269           | -3,00      | 4,000    | 229,239 |        |  |
|               |            | 4,000             | 230,044  | 3,000            | 230,074    | -3,00     | 706+0.000  | 230,164      | 231,824      | -1,660        |                  | 3,000    | 230,074           | -3,00      | 4,000    | 230,044 |        |  |
|               |            | 4,000             | 230,919  | 3,000            | 230,949    | -3,00     | 707+0.000  | 231,039      | 232,191      | -1,152        |                  | 3,000    | 230,949           | -3,00      | 4,000    | 230,919 |        |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |        |              |              |               | Eixo             |            |                   | Lado Direito |          |         |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------------|--------------|----------|---------|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |              | Offset   |         |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Incl. (%)        | Afast. (m) | Cota (m)          | Afast. (m)   | Cota (m) |         |  |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 231,794  | 3,000            | 231,824  | -3,00  | 708+0.000    | 231,914      | 232,502       | -0,588           | 3,000      | 231,824           | -3,00        | 4,000    | 231,794 |  |  |  |
|               |          | 4,000             | 232,231  | 3,000            | 232,261  | -3,00  | 708+10.000   | 232,351      | 232,658       | -0,307           | 3,000      | 232,261           | -3,00        | 4,000    | 232,231 |  |  |  |
|               |          | 4,000             | 232,659  | 3,000            | 232,689  | -3,00  | 709+0.000    | 232,779      | 232,789       | -0,010           | 3,000      | 232,689           | -3,00        | 4,000    | 232,659 |  |  |  |
|               |          | 4,000             | 233,456  | 3,000            | 233,486  | -3,00  | 710+0.000    | 233,576      | 233,039       | 0,537            | 3,000      | 233,486           | -3,00        | 4,000    | 233,456 |  |  |  |
|               |          | 4,000             | 234,174  | 3,000            | 234,204  | -3,00  | 711+0.000    | 234,294      | 233,810       | 0,484            | 3,000      | 234,204           | -3,00        | 4,000    | 234,174 |  |  |  |
|               |          | 4,000             | 234,813  | 3,000            | 234,843  | -3,00  | 712+0.000    | 234,933      | 234,622       | 0,311            | 3,000      | 234,843           | -3,00        | 4,000    | 234,813 |  |  |  |
|               |          | 4,000             | 235,375  | 3,000            | 235,405  | -3,00  | 713+0.000    | 235,495      | 235,426       | 0,069            | 3,000      | 235,405           | -3,00        | 4,000    | 235,375 |  |  |  |
|               |          | 4,000             | 235,858  | 3,000            | 235,888  | -3,00  | 714+0.000    | 235,978      | 236,212       | -0,234           | 3,000      | 235,888           | -3,00        | 4,000    | 235,858 |  |  |  |
|               |          | 4,000             | 236,262  | 3,000            | 236,292  | -3,00  | 715+0.000    | 236,382      | 236,557       | -0,175           | 3,000      | 236,292           | -3,00        | 4,000    | 236,262 |  |  |  |
|               |          | 4,000             | 236,411  | 3,000            | 236,441  | -3,00  | 715+8.532    | 236,531      | 236,686       | -0,155           | 3,000      | 236,441           | -3,00        | 4,000    | 236,411 |  |  |  |
|               |          | 4,000             | 236,411  | 3,000            | 236,441  | -3,00  | 715+8.539    | 236,531      | 236,686       | -0,155           | 3,000      | 236,441           | -3,00        | 4,000    | 236,411 |  |  |  |
|               |          | 4,000             | 236,588  | 3,000            | 236,618  | -3,00  | 716+0.000    | 236,708      | 236,663       | 0,045            | 3,000      | 236,618           | -3,00        | 4,000    | 236,588 |  |  |  |
|               |          | 4,000             | 236,836  | 3,000            | 236,866  | -3,00  | 717+0.000    | 236,956      | 236,575       | 0,381            | 3,000      | 236,866           | -3,00        | 4,000    | 236,836 |  |  |  |
|               |          | 4,000             | 237,006  | 3,000            | 237,036  | -3,00  | 718+0.000    | 237,126      | 236,497       | 0,629            | 3,000      | 237,036           | -3,00        | 4,000    | 237,006 |  |  |  |
|               |          | 4,000             | 237,061  | 3,000            | 237,091  | -3,00  | 718+10.000   | 237,181      | 236,555       | 0,626            | 3,000      | 237,091           | -3,00        | 4,000    | 237,061 |  |  |  |
|               |          | 4,000             | 237,106  | 3,000            | 237,136  | -3,00  | 719+0.000    | 237,226      | 236,452       | 0,774            | 3,000      | 237,136           | -3,00        | 4,000    | 237,106 |  |  |  |
|               |          | 4,000             | 237,197  | 3,000            | 237,227  | -3,00  | 720+0.000    | 237,317      | 236,316       | 1,001            | 3,000      | 237,227           | -3,00        | 4,000    | 237,197 |  |  |  |
|               |          | 4,000             | 237,288  | 3,000            | 237,318  | -3,00  | 721+0.000    | 237,408      | 236,075       | 1,333            | 3,000      | 237,318           | -3,00        | 4,000    | 237,288 |  |  |  |
|               |          | 4,000             | 237,379  | 3,000            | 237,409  | -3,00  | 722+0.000    | 237,499      | 235,922       | 1,577            | 3,000      | 237,409           | -3,00        | 4,000    | 237,379 |  |  |  |
|               |          | 4,000             | 237,470  | 3,000            | 237,500  | -3,00  | 723+0.000    | 237,590      | 235,918       | 1,672            | 3,000      | 237,500           | -3,00        | 4,000    | 237,470 |  |  |  |
|               |          | 4,000             | 237,561  | 3,000            | 237,591  | -3,00  | 724+0.000    | 237,681      | 235,948       | 1,733            | 3,000      | 237,591           | -3,00        | 4,000    | 237,561 |  |  |  |
|               |          | 4,000             | 237,652  | 3,000            | 237,682  | -3,00  | 725+0.000    | 237,772      | 235,896       | 1,876            | 3,000      | 237,682           | -3,00        | 4,000    | 237,652 |  |  |  |
|               |          | 4,000             | 237,743  | 3,000            | 237,773  | -3,00  | 726+0.000    | 237,863      | 236,241       | 1,622            | 3,000      | 237,773           | -3,00        | 4,000    | 237,743 |  |  |  |
|               |          | 4,000             | 237,834  | 3,000            | 237,864  | -3,00  | 727+0.000    | 237,954      | 236,231       | 1,723            | 3,000      | 237,864           | -3,00        | 4,000    | 237,834 |  |  |  |



## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |            |                   |          |                  |          |           |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |  |  |  |
|---------------|------------|-------------------|----------|------------------|----------|-----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|--|--|--|
| Offset        |            | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |  |  |  |
|               |            | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) |  |  |  |
|               | Afast. (m) |                   | Cota (m) |                  |          |           |            |              |              |               |                  |          |                   |            |          |  |  |  |
|               |            | 4,000             | 237,924  | 3,000            | 237,954  | -3,00     | 728+0.000  | 238,044      | 236,776      | 1,268         | 3,000            | 237,954  | -3,00             | 4,000      | 237,924  |  |  |  |
|               |            | 4,000             | 238,015  | 3,000            | 238,045  | -3,00     | 729+0.000  | 238,135      | 236,952      | 1,183         | 3,000            | 238,045  | -3,00             | 4,000      | 238,015  |  |  |  |
|               |            | 4,000             | 238,106  | 3,000            | 238,136  | -3,00     | 730+0.000  | 238,226      | 237,072      | 1,154         | 3,000            | 238,136  | -3,00             | 4,000      | 238,106  |  |  |  |
|               |            | 4,000             | 238,197  | 3,000            | 238,227  | -3,00     | 731+0.000  | 238,317      | 237,242      | 1,075         | 3,000            | 238,227  | -3,00             | 4,000      | 238,197  |  |  |  |
|               |            | 4,000             | 238,243  | 3,000            | 238,273  | -3,00     | 732+0.000  | 238,363      | 237,440      | 0,923         | 3,000            | 238,273  | -3,00             | 4,000      | 238,243  |  |  |  |
|               |            | 4,000             | 238,243  | 3,000            | 238,273  | -3,00     | 732+0.325  | 238,363      | 237,442      | 0,921         | 3,000            | 238,273  | -3,00             | 4,000      | 238,243  |  |  |  |
|               |            | 4,000             | 238,200  | 3,000            | 238,230  | -3,00     | 733+0.000  | 238,320      | 237,637      | 0,683         | 3,000            | 238,230  | -3,00             | 4,000      | 238,200  |  |  |  |
|               |            | 4,000             | 238,067  | 3,000            | 238,097  | -3,00     | 734+0.000  | 238,187      | 237,774      | 0,413         | 3,000            | 238,097  | -3,00             | 4,000      | 238,067  |  |  |  |
|               |            | 4,000             | 237,845  | 3,000            | 237,875  | -3,00     | 735+0.000  | 237,965      | 237,654      | 0,311         | 3,000            | 237,875  | -3,00             | 4,000      | 237,845  |  |  |  |
|               |            | 4,000             | 237,534  | 3,000            | 237,564  | -3,00     | 736+0.000  | 237,654      | 237,616      | 0,038         | 3,000            | 237,564  | -3,00             | 4,000      | 237,534  |  |  |  |
|               |            | 4,000             | 237,132  | 3,000            | 237,162  | -3,00     | 737+0.000  | 237,252      | 237,327      | -0,075        | 3,000            | 237,162  | -3,00             | 4,000      | 237,132  |  |  |  |
|               |            | 4,000             | 236,642  | 3,000            | 236,672  | -3,00     | 738+0.000  | 236,762      | 236,847      | -0,085        | 3,000            | 236,672  | -3,00             | 4,000      | 236,642  |  |  |  |
|               |            | 4,000             | 236,062  | 3,000            | 236,092  | -3,00     | 739+0.000  | 236,182      | 236,286      | -0,104        | 3,000            | 236,092  | -3,00             | 4,000      | 236,062  |  |  |  |
|               |            | 4,000             | 235,392  | 3,000            | 235,422  | -3,00     | 740+0.000  | 235,512      | 235,313      | 0,199         | 3,000            | 235,422  | -3,00             | 4,000      | 235,392  |  |  |  |
|               |            | 4,000             | 234,678  | 3,000            | 234,708  | -3,00     | 741+0.000  | 234,798      | 234,715      | 0,083         | 3,000            | 234,708  | -3,00             | 4,000      | 234,678  |  |  |  |
|               |            | 4,000             | 233,964  | 3,000            | 233,994  | -3,00     | 742+0.000  | 234,084      | 233,297      | 0,787         | 3,000            | 233,994  | -3,00             | 4,000      | 233,964  |  |  |  |
|               |            | 4,000             | 233,607  | 3,000            | 233,637  | -3,00     | 742+10.000 | 233,727      | 232,514      | 1,213         | 3,000            | 233,637  | -3,00             | 4,000      | 233,607  |  |  |  |
|               |            | 4,000             | 233,277  | 3,000            | 233,307  | -3,00     | 743+0.000  | 233,397      | 231,751      | 1,646         | 3,000            | 233,307  | -3,00             | 4,000      | 233,277  |  |  |  |
|               |            | 4,000             | 232,777  | 3,000            | 232,807  | -3,00     | 744+0.000  | 232,897      | 230,655      | 2,242         | 3,000            | 232,807  | -3,00             | 4,000      | 232,777  |  |  |  |
|               |            | 4,000             | 232,492  | 3,000            | 232,522  | -3,00     | 745+0.000  | 232,612      | 229,956      | 2,656         | 3,000            | 232,522  | -3,00             | 4,000      | 232,492  |  |  |  |
|               |            | 4,000             | 232,418  | 3,000            | 232,448  | -3,00     | 745+16.588 | 232,538      | 230,041      | 2,497         | 3,000            | 232,448  | -3,00             | 4,000      | 232,418  |  |  |  |
|               |            | 4,000             | 232,421  | 3,000            | 232,451  | -3,00     | 746+0.000  | 232,541      | 230,103      | 2,438         | 3,000            | 232,451  | -3,00             | 4,000      | 232,421  |  |  |  |
|               |            | 4,000             | 232,565  | 3,000            | 232,595  | -3,00     | 747+0.000  | 232,685      | 230,537      | 2,148         | 3,000            | 232,595  | -3,00             | 4,000      | 232,565  |  |  |  |
|               |            | 4,000             | 232,923  | 3,000            | 232,953  | -3,00     | 748+0.000  | 233,043      | 231,630      | 1,413         | 3,000            | 232,953  | -3,00             | 4,000      | 232,923  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |            |                   |          |                  |          |          |            |              |              | Eixo          |                  |          |                   | Lado Direito |          |            |          |          |  |
|---------------|------------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|--------------|----------|------------|----------|----------|--|
| Offset        |            | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |              | Offset   |            |          |          |  |
|               |            | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)          | Afast. (m)   | Cota (m) | Afast. (m) | Cota (m) |          |  |
|               | Afast. (m) | 4,000             | 233,496  | 3,000            | 233,526  | -3,00    | 749+0.000  | 233,616      | 233,228      | 0,388         |                  | 3,000    | 233,526           | -3,00        | 4,000    | 233,496    |          | Cota (m) |  |
|               |            | 4,000             | 233,863  | 3,000            | 233,893  | -3,00    | 749+10.000 | 233,983      | 234,134      | -0,151        |                  | 3,000    | 233,893           | -3,00        | 4,000    | 233,863    |          |          |  |
|               |            | 4,000             | 234,257  | 3,000            | 234,287  | -3,00    | 750+0.000  | 234,377      | 234,731      | -0,354        |                  | 3,000    | 234,287           | -3,00        | 4,000    | 234,257    |          |          |  |
|               |            | 4,000             | 235,044  | 3,000            | 235,074  | -3,00    | 751+0.000  | 235,164      | 235,932      | -0,768        |                  | 3,000    | 235,074           | -3,00        | 4,000    | 235,044    |          |          |  |
|               |            | 4,000             | 235,762  | 3,000            | 235,792  | -3,00    | 752+0.000  | 235,882      | 236,738      | -0,856        |                  | 3,000    | 235,792           | -3,00        | 4,000    | 235,762    |          |          |  |
|               |            | 4,000             | 236,342  | 3,000            | 236,372  | -3,00    | 753+0.000  | 236,462      | 237,197      | -0,735        |                  | 3,000    | 236,372           | -3,00        | 4,000    | 236,342    |          |          |  |
|               |            | 4,000             | 236,784  | 3,000            | 236,814  | -3,00    | 754+0.000  | 236,904      | 237,622      | -0,718        |                  | 3,000    | 236,814           | -3,00        | 4,000    | 236,784    |          |          |  |
|               |            | 4,000             | 237,105  | 3,000            | 237,135  | -3,00    | 755+0.000  | 237,225      | 237,655      | -0,430        |                  | 3,000    | 237,135           | -3,00        | 4,000    | 237,105    |          |          |  |
|               |            | 4,000             | 237,325  | 3,000            | 237,355  | -3,00    | 756+0.000  | 237,445      | 236,993      | 0,452         |                  | 3,000    | 237,355           | -3,00        | 4,000    | 237,325    |          |          |  |
|               |            | 4,000             | 237,444  | 3,000            | 237,474  | -3,00    | 757+0.000  | 237,564      | 236,571      | 0,993         |                  | 3,000    | 237,474           | -3,00        | 4,000    | 237,444    |          |          |  |
|               |            | 4,000             | 237,465  | 3,000            | 237,495  | -3,00    | 757+10.000 | 237,585      | 236,366      | 1,219         |                  | 3,000    | 237,495           | -3,00        | 4,000    | 237,465    |          |          |  |
|               |            | 4,000             | 237,473  | 3,000            | 237,503  | -3,00    | 758+0.000  | 237,593      | 236,386      | 1,207         |                  | 3,000    | 237,503           | -3,00        | 4,000    | 237,473    |          |          |  |
|               |            | 4,000             | 237,490  | 3,000            | 237,520  | -3,00    | 759+0.000  | 237,610      | 236,335      | 1,275         |                  | 3,000    | 237,520           | -3,00        | 4,000    | 237,490    |          |          |  |
|               |            | 4,000             | 237,506  | 3,000            | 237,536  | -3,00    | 760+0.000  | 237,626      | 236,461      | 1,165         |                  | 3,000    | 237,536           | -3,00        | 4,000    | 237,506    |          |          |  |
|               |            | 4,000             | 237,523  | 3,000            | 237,553  | -3,00    | 761+0.000  | 237,643      | 236,379      | 1,264         |                  | 3,000    | 237,553           | -3,00        | 4,000    | 237,523    |          |          |  |
|               |            | 4,000             | 237,540  | 3,000            | 237,570  | -3,00    | 762+0.000  | 237,660      | 236,882      | 0,778         |                  | 3,000    | 237,570           | -3,00        | 4,000    | 237,540    |          |          |  |
|               |            | 4,000             | 237,556  | 3,000            | 237,586  | -3,00    | 763+0.000  | 237,676      | 237,222      | 0,454         |                  | 3,000    | 237,586           | -3,00        | 4,000    | 237,556    |          |          |  |
|               |            | 4,000             | 237,573  | 3,000            | 237,603  | -3,00    | 764+0.000  | 237,693      | 237,376      | 0,317         |                  | 3,000    | 237,603           | -3,00        | 4,000    | 237,573    |          |          |  |
|               |            | 4,000             | 237,590  | 3,000            | 237,620  | -3,00    | 765+0.000  | 237,710      | 237,583      | 0,127         |                  | 3,000    | 237,620           | -3,00        | 4,000    | 237,590    |          |          |  |
|               |            | 4,000             | 237,606  | 3,000            | 237,636  | -3,00    | 766+0.000  | 237,726      | 237,994      | -0,268        |                  | 3,000    | 237,636           | -3,00        | 4,000    | 237,606    |          |          |  |
|               |            | 4,000             | 237,623  | 3,000            | 237,653  | -3,00    | 767+0.000  | 237,743      | 238,058      | -0,315        |                  | 3,000    | 237,653           | -3,00        | 4,000    | 237,623    |          |          |  |
|               |            | 4,000             | 237,640  | 3,000            | 237,670  | -3,00    | 768+0.000  | 237,760      | 237,949      | -0,189        |                  | 3,000    | 237,670           | -3,00        | 4,000    | 237,640    |          |          |  |
|               |            | 4,000             | 237,656  | 3,000            | 237,686  | -3,00    | 769+0.000  | 237,776      | 237,810      | -0,034        |                  | 3,000    | 237,686           | -3,00        | 4,000    | 237,656    |          |          |  |
|               |            | 4,000             | 237,673  | 3,000            | 237,703  | -3,00    | 770+0.000  | 237,793      | 237,386      | 0,407         |                  | 3,000    | 237,703           | -3,00        | 4,000    | 237,673    |          |          |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |          | Eixo   |              |              |               | Lado Direito     |            |             |          |            |          |            |
|---------------|----------|-------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------|----------|------------|----------|------------|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Acostamento |          | Offset     |          |            |
| Afast. (m)    | Cota (m) | Afast. (m)  | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Ind. (%)         | Afast. (m) | Cota (m)    | Ind. (%) | Afast. (m) | Cota (m) | Afast. (m) |
|               |          | 4,000       | 237,690  | 3,000            | 237,720  | -3,00  | 771+0.000    | 237,810      | 237,062       | 0,748            | 3,000      | 237,720     | 4,000    | 237,690    |          |            |
|               |          | 4,000       | 237,706  | 3,000            | 237,736  | -3,00  | 772+0.000    | 237,826      | 236,745       | 1,081            | 3,000      | 237,736     | 4,000    | 237,706    |          |            |
|               |          | 4,000       | 237,723  | 3,000            | 237,753  | -3,00  | 773+0.000    | 237,843      | 236,522       | 1,321            | 3,000      | 237,753     | 4,000    | 237,723    |          |            |
|               |          | 4,000       | 237,740  | 3,000            | 237,770  | -3,00  | 774+0.000    | 237,860      | 236,473       | 1,387            | 3,000      | 237,770     | 4,000    | 237,740    |          |            |
|               |          | 4,000       | 237,756  | 3,000            | 237,786  | -3,00  | 775+0.000    | 237,876      | 236,630       | 1,246            | 3,000      | 237,786     | 4,000    | 237,756    |          |            |
|               |          | 4,000       | 237,820  | 3,000            | 237,850  | -3,00  | 776+0.000    | 237,940      | 236,763       | 1,177            | 3,000      | 237,850     | 4,000    | 237,820    |          |            |
|               |          | 4,000       | 237,980  | 3,000            | 238,010  | -3,00  | 777+0.000    | 238,100      | 236,834       | 1,266            | 3,000      | 238,010     | 4,000    | 237,980    |          |            |
|               |          | 4,000       | 238,234  | 3,000            | 238,264  | -3,00  | 778+0.000    | 238,354      | 237,166       | 1,188            | 3,000      | 238,264     | 4,000    | 238,234    |          |            |
|               |          | 4,000       | 238,583  | 3,000            | 238,613  | -3,00  | 779+0.000    | 238,703      | 237,652       | 1,051            | 3,000      | 238,613     | 4,000    | 238,583    |          |            |
|               |          | 4,000       | 239,028  | 3,000            | 239,058  | -3,00  | 780+0.000    | 239,148      | 238,567       | 0,581            | 3,000      | 239,058     | 4,000    | 239,028    |          |            |
|               |          | 4,000       | 239,568  | 3,000            | 239,598  | -3,00  | 781+0.000    | 239,688      | 239,398       | 0,290            | 3,000      | 239,598     | 4,000    | 239,568    |          |            |
|               |          | 4,000       | 240,155  | 3,000            | 240,185  | -3,00  | 782+0.000    | 240,275      | 240,037       | 0,238            | 3,000      | 240,185     | 4,000    | 240,155    |          |            |
|               |          | 4,000       | 240,742  | 3,000            | 240,772  | -3,00  | 783+0.000    | 240,862      | 240,664       | 0,198            | 3,000      | 240,772     | 4,000    | 240,742    |          |            |
|               |          | 4,000       | 241,329  | 3,000            | 241,359  | -3,00  | 784+0.000    | 241,449      | 241,293       | 0,156            | 3,000      | 241,359     | 4,000    | 241,329    |          |            |
|               |          | 4,000       | 241,916  | 3,000            | 241,946  | -3,00  | 785+0.000    | 242,036      | 241,786       | 0,250            | 3,000      | 241,946     | 4,000    | 241,916    |          |            |
|               |          | 4,000       | 242,456  | 3,000            | 242,486  | -3,00  | 786+0.000    | 242,576      | 241,986       | 0,590            | 3,000      | 242,486     | 4,000    | 242,456    |          |            |
|               |          | 4,000       | 242,903  | 3,000            | 242,933  | -3,00  | 787+0.000    | 243,023      | 242,330       | 0,693            | 3,000      | 242,933     | 4,000    | 242,903    |          |            |
|               |          | 4,000       | 243,257  | 3,000            | 243,287  | -3,00  | 788+0.000    | 243,377      | 242,832       | 0,545            | 3,000      | 243,287     | 4,000    | 243,257    |          |            |
|               |          | 4,000       | 243,517  | 3,000            | 243,547  | -3,00  | 789+0.000    | 243,637      | 242,974       | 0,663            | 3,000      | 243,547     | 4,000    | 243,517    |          |            |
|               |          | 4,000       | 243,684  | 3,000            | 243,714  | -3,00  | 790+0.000    | 243,804      | 243,205       | 0,599            | 3,000      | 243,714     | 4,000    | 243,684    |          |            |
|               |          | 4,000       | 243,758  | 3,000            | 243,788  | -3,00  | 791+0.000    | 243,878      | 243,156       | 0,722            | 3,000      | 243,788     | 4,000    | 243,758    |          |            |
|               |          | 4,000       | 243,762  | 3,000            | 243,792  | -3,00  | 791+5.779    | 243,882      | 243,063       | 0,819            | 3,000      | 243,792     | 4,000    | 243,762    |          |            |
|               |          | 4,000       | 243,738  | 3,000            | 243,768  | -3,00  | 792+0.000    | 243,858      | 243,097       | 0,761            | 3,000      | 243,768     | 4,000    | 243,738    |          |            |
|               |          | 4,000       | 243,625  | 3,000            | 243,655  | -3,00  | 793+0.000    | 243,745      | 243,032       | 0,713            | 3,000      | 243,655     | 4,000    | 243,625    |          |            |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |          |           |           |              |              | Eixo          |                  |          | Lado Direito |             |          |            |          |            |          |
|---------------|----------|-------------|----------|------------------|----------|-----------|-----------|--------------|--------------|---------------|------------------|----------|--------------|-------------|----------|------------|----------|------------|----------|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |          |           | Estaca    | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          |              | Acostamento |          | Offset     |          |            |          |
| Afast. (m)    | Cota (m) | Afast. (m)  | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |           |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)    | Afast. (m)  | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |
|               |          | 4,000       | 243,419  | 3,000            | 243,449  | -3,00     | 794+0.000 | 243,539      | 242,825      | 0,714         | 3,000            | 243,449  | -3,00        | 4,000       | 243,419  |            |          |            |          |
|               |          | 4,000       | 243,119  | 3,000            | 243,149  | -3,00     | 795+0.000 | 243,239      | 242,641      | 0,598         | 3,000            | 243,149  | -3,00        | 4,000       | 243,119  |            |          |            |          |
|               |          | 4,000       | 242,726  | 3,000            | 242,756  | -3,00     | 796+0.000 | 242,846      | 242,455      | 0,391         | 3,000            | 242,756  | -3,00        | 4,000       | 242,726  |            |          |            |          |
|               |          | 4,000       | 242,240  | 3,000            | 242,270  | -3,00     | 797+0.000 | 242,360      | 241,970      | 0,390         | 3,000            | 242,270  | -3,00        | 4,000       | 242,240  |            |          |            |          |
|               |          | 4,000       | 241,660  | 3,000            | 241,690  | -3,00     | 798+0.000 | 241,780      | 241,441      | 0,339         | 3,000            | 241,690  | -3,00        | 4,000       | 241,660  |            |          |            |          |
|               |          | 4,000       | 240,987  | 3,000            | 241,017  | -3,00     | 799+0.000 | 241,107      | 240,797      | 0,310         | 3,000            | 241,017  | -3,00        | 4,000       | 240,987  |            |          |            |          |
|               |          | 4,000       | 240,220  | 3,000            | 240,250  | -3,00     | 800+0.000 | 240,340      | 240,041      | 0,299         | 3,000            | 240,250  | -3,00        | 4,000       | 240,220  |            |          |            |          |
|               |          | 4,000       | 239,360  | 3,000            | 239,390  | -3,00     | 801+0.000 | 239,480      | 238,670      | 0,810         | 3,000            | 239,390  | -3,00        | 4,000       | 239,360  |            |          |            |          |
|               |          | 4,000       | 238,407  | 3,000            | 238,437  | -3,00     | 802+0.000 | 238,527      | 237,676      | 0,851         | 3,000            | 238,437  | -3,00        | 4,000       | 238,407  |            |          |            |          |
|               |          | 4,000       | 237,407  | 3,000            | 237,437  | -3,00     | 803+0.000 | 237,527      | 236,415      | 1,112         | 3,000            | 237,437  | -3,00        | 4,000       | 237,407  |            |          |            |          |
|               |          | 4,000       | 236,407  | 3,000            | 236,437  | -3,00     | 804+0.000 | 236,527      | 235,464      | 1,063         | 3,000            | 236,437  | -3,00        | 4,000       | 236,407  |            |          |            |          |
|               |          | 4,000       | 235,485  | 3,000            | 235,515  | -3,00     | 805+0.000 | 235,605      | 233,985      | 1,620         | 3,000            | 235,515  | -3,00        | 4,000       | 235,485  |            |          |            |          |
|               |          | 4,000       | 234,720  | 3,000            | 234,750  | -3,00     | 806+0.000 | 234,840      | 233,253      | 1,587         | 3,000            | 234,750  | -3,00        | 4,000       | 234,720  |            |          |            |          |
|               |          | 4,000       | 234,111  | 3,000            | 234,141  | -3,00     | 807+0.000 | 234,231      | 232,401      | 1,830         | 3,000            | 234,141  | -3,00        | 4,000       | 234,111  |            |          |            |          |
|               |          | 4,000       | 233,658  | 3,000            | 233,688  | -3,00     | 808+0.000 | 233,778      | 231,909      | 1,869         | 3,000            | 233,688  | -3,00        | 4,000       | 233,658  |            |          |            |          |
|               |          | 4,000       | 233,361  | 3,000            | 233,391  | -3,00     | 809+0.000 | 233,481      | 231,605      | 1,876         | 3,000            | 233,391  | -3,00        | 4,000       | 233,361  |            |          |            |          |
|               |          | 4,000       | 233,221  | 3,000            | 233,251  | -3,00     | 810+0.000 | 233,341      | 231,849      | 1,492         | 3,000            | 233,251  | -3,00        | 4,000       | 233,221  |            |          |            |          |
|               |          | 4,000       | 233,209  | 3,000            | 233,239  | -3,00     | 810+7.943 | 233,329      | 231,825      | 1,504         | 3,000            | 233,239  | -3,00        | 4,000       | 233,209  |            |          |            |          |
|               |          | 4,000       | 233,237  | 3,000            | 233,267  | -3,00     | 811+0.000 | 233,357      | 232,024      | 1,333         | 3,000            | 233,267  | -3,00        | 4,000       | 233,237  |            |          |            |          |
|               |          | 4,000       | 233,410  | 3,000            | 233,440  | -3,00     | 812+0.000 | 233,530      | 232,449      | 1,081         | 3,000            | 233,440  | -3,00        | 4,000       | 233,410  |            |          |            |          |
|               |          | 4,000       | 233,738  | 3,000            | 233,768  | -3,00     | 813+0.000 | 233,858      | 233,189      | 0,669         | 3,000            | 233,768  | -3,00        | 4,000       | 233,738  |            |          |            |          |
|               |          | 4,000       | 234,223  | 3,000            | 234,253  | -3,00     | 814+0.000 | 234,343      | 234,017      | 0,326         | 3,000            | 234,253  | -3,00        | 4,000       | 234,223  |            |          |            |          |
|               |          | 4,000       | 234,865  | 3,000            | 234,895  | -3,00     | 815+0.000 | 234,985      | 234,941      | 0,044         | 3,000            | 234,895  | -3,00        | 4,000       | 234,865  |            |          |            |          |
|               |          | 4,000       | 235,662  | 3,000            | 235,692  | -3,00     | 816+0.000 | 235,782      | 236,450      | -0,668        | 3,000            | 235,692  | -3,00        | 4,000       | 235,662  |            |          |            |          |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |              |              | Eixo          |                  |          |                   | Lado Direito |          |            |          |            |          |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|--------------|----------|------------|----------|------------|----------|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |              | Offset   |            |          |            |          |
| Afast. (m)    | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)          | Afast. (m)   | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |
|               |          | 4,000             | 236,538  | 3,000            | 236,568  | -3,00    | 817+0.000  | 237,658      | -1,000       |               | 3,000            | 236,568  | -3,00             | 4,000        | 236,538  |            |          |            |          |
|               |          | 4,000             | 237,414  | 3,000            | 237,444  | -3,00    | 818+0.000  | 238,738      | -1,204       |               | 3,000            | 237,444  | -3,00             | 4,000        | 237,414  |            |          |            |          |
|               |          | 4,000             | 238,290  | 3,000            | 238,320  | -3,00    | 819+0.000  | 239,494      | -1,084       |               | 3,000            | 238,320  | -3,00             | 4,000        | 238,290  |            |          |            |          |
|               |          | 4,000             | 239,129  | 3,000            | 239,159  | -3,00    | 820+0.000  | 239,976      | -0,727       |               | 3,000            | 239,159  | -3,00             | 4,000        | 239,129  |            |          |            |          |
|               |          | 4,000             | 239,894  | 3,000            | 239,924  | -3,00    | 821+0.000  | 240,277      | -0,263       |               | 3,000            | 239,924  | -3,00             | 4,000        | 239,894  |            |          |            |          |
|               |          | 4,000             | 240,586  | 3,000            | 240,616  | -3,00    | 822+0.000  | 240,541      | 0,165        |               | 3,000            | 240,616  | -3,00             | 4,000        | 240,586  |            |          |            |          |
|               |          | 4,000             | 241,205  | 3,000            | 241,235  | -3,00    | 823+0.000  | 240,473      | 0,852        |               | 3,000            | 241,235  | -3,00             | 4,000        | 241,205  |            |          |            |          |
|               |          | 4,000             | 241,750  | 3,000            | 241,780  | -3,00    | 824+0.000  | 241,870      | 0,025        |               | 3,000            | 241,780  | -3,00             | 4,000        | 241,750  |            |          |            |          |
|               |          | 4,000             | 242,222  | 3,000            | 242,252  | -3,00    | 825+0.000  | 242,342      | 0,197        |               | 3,000            | 242,252  | -3,00             | 4,000        | 242,222  |            |          |            |          |
|               |          | 4,000             | 242,620  | 3,000            | 242,650  | -3,00    | 826+0.000  | 242,740      | 0,304        |               | 3,000            | 242,650  | -3,00             | 4,000        | 242,620  |            |          |            |          |
|               |          | 4,000             | 242,944  | 3,000            | 242,974  | -3,00    | 827+0.000  | 242,741      | 0,323        |               | 3,000            | 242,974  | -3,00             | 4,000        | 242,944  |            |          |            |          |
|               |          | 4,000             | 243,196  | 3,000            | 243,226  | -3,00    | 828+0.000  | 242,904      | 0,412        |               | 3,000            | 243,226  | -3,00             | 4,000        | 243,196  |            |          |            |          |
|               |          | 4,000             | 243,373  | 3,000            | 243,403  | -3,00    | 829+0.000  | 243,493      | 0,417        |               | 3,000            | 243,403  | -3,00             | 4,000        | 243,373  |            |          |            |          |
|               |          | 4,000             | 243,478  | 3,000            | 243,508  | -3,00    | 830+0.000  | 243,598      | 0,324        |               | 3,000            | 243,508  | -3,00             | 4,000        | 243,478  |            |          |            |          |
|               |          | 4,000             | 243,545  | 3,000            | 243,575  | -3,00    | 831+0.000  | 243,665      | -0,087       |               | 3,000            | 243,575  | -3,00             | 4,000        | 243,545  |            |          |            |          |
|               |          | 4,000             | 243,613  | 3,000            | 243,643  | -3,00    | 832+0.000  | 244,072      | -0,339       |               | 3,000            | 243,643  | -3,00             | 4,000        | 243,613  |            |          |            |          |
|               |          | 4,000             | 243,680  | 3,000            | 243,710  | -3,00    | 833+0.000  | 244,635      | -0,835       |               | 3,000            | 243,710  | -3,00             | 4,000        | 243,680  |            |          |            |          |
|               |          | 4,000             | 243,748  | 3,000            | 243,778  | -3,00    | 834+0.000  | 245,152      | -1,284       |               | 3,000            | 243,778  | -3,00             | 4,000        | 243,748  |            |          |            |          |
|               |          | 4,000             | 243,815  | 3,000            | 243,845  | -3,00    | 835+0.000  | 244,657      | -0,722       |               | 3,000            | 243,845  | -3,00             | 4,000        | 243,815  |            |          |            |          |
|               |          | 4,000             | 243,883  | 3,000            | 243,913  | -3,00    | 836+0.000  | 244,531      | -0,528       |               | 3,000            | 243,913  | -3,00             | 4,000        | 243,883  |            |          |            |          |
|               |          | 4,000             | 243,950  | 3,000            | 243,980  | -3,00    | 837+0.000  | 244,138      | -0,068       |               | 3,000            | 243,980  | -3,00             | 4,000        | 243,950  |            |          |            |          |
|               |          | 4,000             | 244,018  | 3,000            | 244,048  | -3,00    | 838+0.000  | 244,138      | 0,384        |               | 3,000            | 244,048  | -3,00             | 4,000        | 244,018  |            |          |            |          |
|               |          | 4,000             | 244,066  | 3,000            | 244,096  | -3,00    | 838+14.215 | 243,503      | 0,683        |               | 3,000            | 244,096  | -3,00             | 4,000        | 244,066  |            |          |            |          |
|               |          | 4,000             | 244,085  | 3,000            | 244,115  | -3,00    | 839+0.000  | 243,416      | 0,789        |               | 3,000            | 244,115  | -3,00             | 4,000        | 244,085  |            |          |            |          |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo           |          |                   |          |                  |          |        | Eixo         |              |               |                  | Lado Direito |                   |           |            |          |  |
|-------------------------|----------|-------------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|--------------|-------------------|-----------|------------|----------|--|
| Offset                  |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |              | Bordo Acostamento |           | Offset     |          |  |
|                         |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Incl. (%)        | Afast. (m)   | Cota (m)          | Incl. (%) | Afast. (m) | Cota (m) |  |
| Afast. (m)              | Cota (m) |                   |          |                  |          |        |              |              |               |                  |              |                   |           |            |          |  |
|                         |          | 4,000             | 244,151  | 3,000            | 244,181  | -3,00  | 839+19.312   | 244,271      | 243,075       | 1,196            |              | 3,000             | 244,181   | -3,00      | 244,151  |  |
|                         |          | 4,000             | 244,153  | 3,000            | 244,183  | -3,00  | 840+0.000    | 244,273      | 243,068       | 1,205            |              | 3,000             | 244,187   | -2,88      | 244,158  |  |
|                         |          | 4,000             | 244,180  | 3,000            | 244,210  | -3,00  | 840+8.000    | 244,300      | 242,987       | 1,313            |              | 3,000             | 244,254   | -1,54      | 244,238  |  |
|                         |          | 4,000             | 244,209  | 3,000            | 244,239  | -3,00  | 840+17.215   | 244,329      | 242,947       | 1,382            |              | 3,000             | 244,329   | 0,00       | 244,329  |  |
|                         |          | 4,000             | 244,218  | 3,000            | 244,248  | -3,00  | 841+0.000    | 244,338      | 242,905       | 1,433            |              | 3,000             | 244,352   | 0,47       | 244,357  |  |
|                         |          | 4,000             | 244,258  | 3,000            | 244,288  | -3,00  | 841+15.119   | 244,378      | 242,699       | 1,679            |              | 3,000             | 244,468   | 3,00       | 244,498  |  |
|                         |          | 4,000             | 244,236  | 3,000            | 244,274  | -3,82  | 842+0.000    | 244,389      | 242,705       | 1,684            |              | 3,000             | 244,504   | 3,82       | 244,542  |  |
|                         |          | 4,000             | 244,169  | 3,000            | 244,231  | -6,20  | 842+14.215   | 244,417      | 243,021       | 1,396            |              | 3,000             | 244,603   | 6,20       | 244,665  |  |
|                         |          | 4,000             | 244,178  | 3,000            | 244,240  | -6,20  | 843+0.000    | 244,426      | 243,357       | 1,069            |              | 3,000             | 244,612   | 6,20       | 244,674  |  |
| INÍCIO DA INTERSEÇÃO 01 |          |                   |          |                  |          |        |              |              |               |                  |              |                   |           |            |          |  |
|                         |          | 4,000             | 244,200  | 3,000            | 244,262  | -6,20  | 844+0.000    | 244,448      | 243,825       | 0,623            |              | 3,000             | 244,634   | 6,20       | 244,696  |  |
|                         |          | 4,000             | 244,208  | 3,000            | 244,270  | -6,20  | 845+0.000    | 244,456      | 243,523       | 0,933            |              | 3,000             | 244,642   | 6,20       | 244,704  |  |
|                         |          | 4,000             | 244,208  | 3,000            | 244,270  | -6,20  | 845+0.294    | 244,456      | 243,515       | 0,941            |              | 3,000             | 244,642   | 6,20       | 244,704  |  |
|                         |          | 4,000             | 244,201  | 3,000            | 244,263  | -6,20  | 846+0.000    | 244,449      | 243,401       | 1,048            |              | 3,000             | 244,635   | 6,20       | 244,697  |  |
|                         |          | 4,000             | 244,179  | 3,000            | 244,241  | -6,20  | 847+0.000    | 244,427      | 243,635       | 0,792            |              | 3,000             | 244,613   | 6,20       | 244,675  |  |
|                         |          | 4,000             | 244,146  | 3,000            | 244,208  | -6,20  | 847+18.599   | 244,394      | 243,752       | 0,642            |              | 3,000             | 244,580   | 6,20       | 244,642  |  |
|                         |          | 4,000             | 244,142  | 3,000            | 244,204  | -6,20  | 848+0.000    | 244,390      | 243,763       | 0,627            |              | 3,000             | 244,576   | 6,20       | 244,638  |  |
|                         |          | 4,000             | 244,091  | 3,000            | 244,153  | -6,20  | 849+0.000    | 244,339      | 243,930       | 0,409            |              | 3,000             | 244,525   | 6,20       | 244,587  |  |
|                         |          | 4,000             | 244,067  | 3,000            | 244,129  | -6,20  | 849+8.000    | 244,315      | 244,006       | 0,309            |              | 3,000             | 244,501   | 6,20       | 244,563  |  |
|                         |          | 4,000             | 244,028  | 3,000            | 244,090  | -6,20  | 850+0.000    | 244,276      | 244,083       | 0,193            |              | 3,000             | 244,462   | 6,20       | 244,524  |  |
|                         |          | 4,000             | 243,964  | 3,000            | 244,026  | -6,20  | 851+0.000    | 244,212      | 244,178       | 0,034            |              | 3,000             | 244,398   | 6,20       | 244,460  |  |
|                         |          | 4,000             | 243,900  | 3,000            | 243,962  | -6,20  | 852+0.000    | 244,148      | 244,407       | -0,259           |              | 3,000             | 244,334   | 6,20       | 244,396  |  |
|                         |          | 4,000             | 243,836  | 3,000            | 243,898  | -6,20  | 853+0.000    | 244,084      | 244,114       | -0,030           |              | 3,000             | 244,270   | 6,20       | 244,332  |  |
|                         |          | 4,000             | 243,826  | 3,000            | 243,888  | -6,20  | 853+2.983    | 244,074      | 243,987       | 0,087            |              | 3,000             | 244,260   | 6,20       | 244,322  |  |

| Nota de Serviço de Pavimento Acabado |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|--------------------------------------|----------|-------------------|----------|------------------|----------|------------------------------------|--------------|--------------|---------------|------------------|------------|-------------------|----------|------------|----------|
| Rodovia : RO-010      Lote 01        |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
| Lado Esquerdo                        |          |                   |          |                  |          | Eixo                               |              |              |               | Lado Direito     |            |                   |          |            |          |
| Offset                               |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca                             | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |          | Offset     |          |
| Afast. (m)                           | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |                                    |              |              |               | Incl. (%)        | Afast. (m) | Cota (m)          | Ind. (%) | Afast. (m) | Cota (m) |
|                                      |          | 4,000             | 243,886  | 3,000            | 243,920  | -3,35                              | 854+0.000    | 244,020      | 243,599       | 0,421            | 3,000      | 244,121           | 3,35     | 4,000      | 244,154  |
| FINAL DA INTERSEÇÃO 01               |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
| INTERSEÇÃO 01 - RAMO 01              |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
| Sobreposição com a pista principal   |          |                   |          |                  |          | Sobreposição com a pista principal |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          | 1,000            | 244,494  | 3,00                               | 4+10.000     | 244,464      | 242,610       | 1,854            | 3,000      | 244,374           | -3,00    | 4,000      | 244,344  |
|                                      |          |                   |          | 1,000            | 244,507  | 3,00                               | 5+0.000      | 244,477      | 242,601       | 1,876            | 3,000      | 244,387           | -3,00    | 4,000      | 244,357  |
|                                      |          |                   |          | 1,000            | 244,515  | 3,00                               | 5+16.048     | 244,485      | 242,724       | 1,761            | 3,000      | 244,395           | -3,00    | 4,000      | 244,365  |
|                                      |          |                   |          | 1,000            | 244,514  | 3,00                               | 6+0.000      | 244,484      | 242,742       | 1,742            | 3,000      | 244,394           | -3,00    | 4,000      | 244,364  |
|                                      |          |                   |          | 1,000            | 244,498  | 3,00                               | 7+0.000      | 244,468      | 242,857       | 1,611            | 3,000      | 244,378           | -3,00    | 4,000      | 244,348  |
|                                      |          |                   |          | 1,000            | 244,469  | 3,00                               | 8+0.000      | 244,439      | 243,013       | 1,426            | 3,000      | 244,349           | -3,00    | 4,000      | 244,319  |
| Sobreposição com a Rótula            |          |                   |          |                  |          | Sobreposição com a Rótula          |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          | 1,000            | 244,293  | 3,00                               | 9+0.000      | 244,263      | 243,087       | 1,176            | 3,000      | 244,173           | -3,00    | 4,000      | 244,143  |
|                                      |          |                   |          | 1,000            | 244,112  | 3,00                               | 9+13.744     | 244,082      | 243,300       | 0,782            | 3,000      | 243,992           | -3,00    | 4,000      | 243,962  |
|                                      |          |                   |          | 1,000            | 243,970  | 3,00                               | 10+0.000     | 243,940      | 243,160       | 0,780            | 3,000      | 243,850           | -3,00    | 4,000      | 243,820  |
|                                      |          |                   |          | 1,000            | 243,630  | 3,00                               | 10+12.000    | 243,600      | 242,528       | 1,072            | 3,000      | 243,510           | -3,00    | 4,000      | 243,480  |
|                                      |          |                   |          | 1,000            | 243,558  | 3,00                               | 10+14.257    | 243,528      | 242,623       | 0,905            | 3,000      | 243,438           | -3,00    | 4,000      | 243,408  |
| INTERSEÇÃO 01 - RAMO 02              |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          |                  |          |                                    |              |              |               |                  |            |                   |          |            |          |
|                                      |          |                   |          | 1,000            | 243,558  | 3,00                               | 0+0.000      | 243,528      | 242,623       | 0,905            | 3,000      | 243,438           | -3,00    | 4,000      | 243,408  |
|                                      |          |                   |          | 1,000            | 243,871  | 3,00                               | 0+9.783      | 243,841      | 242,812       | 1,029            | 3,000      | 243,751           | -3,00    | 4,000      | 243,721  |
|                                      |          |                   |          | 1,000            | 244,152  | 3,00                               | 1+0.000      | 244,122      | 243,503       | 0,619            | 3,000      | 244,032           | -3,00    | 4,000      | 244,002  |

**Rodovia : RO-010      Lote 01**

**Sobreposição com a pista principal**



## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo                      |          |                   |          |                  |          |        |              |              |               | Eixo             |            |                   |       | Lado Direito |         |          |                                    |  |  |  |  |
|------------------------------------|----------|-------------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------------|-------|--------------|---------|----------|------------------------------------|--|--|--|--|
| Offset                             |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |       | Offset       |         |          |                                    |  |  |  |  |
|                                    |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Ind. (%)         | Afast. (m) | Cota (m)          |       |              |         |          |                                    |  |  |  |  |
| Afast. (m)                         | Cota (m) | 4,000             | 244,236  | 3,000            | 244,266  | -3,00  | 6+11.519     | 244,356      | 244,339       | 0,017            | 3,000      | 244,446           | 3,00  | 4,000        | 244,476 | Cota (m) |                                    |  |  |  |  |
|                                    |          | 4,000             | 244,229  | 3,000            | 244,259  | -3,00  | 7+0.000      | 244,349      | 244,111       | 0,238            | 3,000      | 244,439           | 3,00  | 4,000        | 244,469 | Cota (m) |                                    |  |  |  |  |
| Sobreposição com a pista principal |          |                   |          |                  |          |        |              |              |               | 7+14.510         |            |                   |       |              |         |          | Sobreposição com a pista principal |  |  |  |  |
| CONTINUAÇÃO PISTA RO-010           |          |                   |          |                  |          |        |              |              |               |                  |            |                   |       |              |         |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,893  | 3,000            | 243,923  | -3,00  | 854+2.080    | 244,013      | 243,555       | 0,458            | 3,000      | 244,103           | 3,00  | 4,000        | 244,133 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,836  | 3,000            | 243,866  | -3,00  | 854+19.983   | 243,956      | 243,563       | 0,393            | 3,000      | 243,956           | 0,00  | 4,000        | 243,956 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,836  | 3,000            | 243,866  | -3,00  | 855+0.000    | 243,956      | 243,557       | 0,399            | 3,000      | 243,956           | 0,00  | 4,000        | 243,956 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,778  | 3,000            | 243,808  | -3,00  | 855+17.886   | 243,898      | 243,150       | 0,748            | 3,000      | 243,808           | -3,00 | 4,000        | 243,778 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,771  | 3,000            | 243,801  | -3,00  | 856+0.000    | 243,891      | 243,133       | 0,758            | 3,000      | 243,801           | -3,00 | 4,000        | 243,771 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,707  | 3,000            | 243,737  | -3,00  | 857+0.000    | 243,827      | 242,935       | 0,892            | 3,000      | 243,737           | -3,00 | 4,000        | 243,707 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,698  | 3,000            | 243,728  | -3,00  | 857+2.983    | 243,818      | 242,878       | 0,940            | 3,000      | 243,728           | -3,00 | 4,000        | 243,698 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,643  | 3,000            | 243,673  | -3,00  | 858+0.000    | 243,763      | 242,706       | 1,057            | 3,000      | 243,673           | -3,00 | 4,000        | 243,643 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,579  | 3,000            | 243,609  | -3,00  | 859+0.000    | 243,699      | 242,453       | 1,246            | 3,000      | 243,609           | -3,00 | 4,000        | 243,579 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,515  | 3,000            | 243,545  | -3,00  | 860+0.000    | 243,635      | 242,227       | 1,408            | 3,000      | 243,545           | -3,00 | 4,000        | 243,515 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,451  | 3,000            | 243,481  | -3,00  | 861+0.000    | 243,571      | 242,353       | 1,218            | 3,000      | 243,481           | -3,00 | 4,000        | 243,451 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,386  | 3,000            | 243,416  | -3,00  | 862+0.000    | 243,506      | 242,231       | 1,275            | 3,000      | 243,416           | -3,00 | 4,000        | 243,386 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,345  | 3,000            | 243,375  | -3,00  | 862+13.000   | 243,465      | 242,252       | 1,213            | 3,000      | 243,375           | -3,00 | 4,000        | 243,345 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,328  | 3,000            | 243,358  | -3,00  | 863+0.000    | 243,448      | 242,156       | 1,292            | 3,000      | 243,358           | -3,00 | 4,000        | 243,328 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,322  | 3,000            | 243,352  | -3,00  | 863+7.045    | 243,442      | 242,125       | 1,317            | 3,000      | 243,352           | -3,00 | 4,000        | 243,322 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,341  | 3,000            | 243,371  | -3,00  | 864+0.000    | 243,461      | 242,145       | 1,316            | 3,000      | 243,371           | -3,00 | 4,000        | 243,341 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,446  | 3,000            | 243,476  | -3,00  | 865+0.000    | 243,566      | 242,263       | 1,303            | 3,000      | 243,476           | -3,00 | 4,000        | 243,446 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,643  | 3,000            | 243,673  | -3,00  | 866+0.000    | 243,763      | 242,416       | 1,347            | 3,000      | 243,673           | -3,00 | 4,000        | 243,643 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 243,930  | 3,000            | 243,960  | -3,00  | 867+0.000    | 244,050      | 242,703       | 1,347            | 3,000      | 243,960           | -3,00 | 4,000        | 243,930 |          |                                    |  |  |  |  |
|                                    |          | 4,000             | 244,309  | 3,000            | 244,339  | -3,00  | 868+0.000    | 244,429      | 242,879       | 1,550            | 3,000      | 244,339           | -3,00 | 4,000        | 244,309 |          |                                    |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |          |          |            |              |              | Eixo          |                  |          | Lado Direito |            |          |            |          |            |
|---------------|----------|-------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|--------------|------------|----------|------------|----------|------------|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Acostamento  |            | Offset   |            |          |            |
| Afast. (m)    | Cota (m) | Afast. (m)  | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)     | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) |
|               |          | 4,000       | 244,779  | 3,000            | 244,809  | -3,00    | 869+0.000  | 244,899      | 243,345      | 1,554         | 3,000            | 244,809  | -3,00        | 4,000      | 244,779  |            |          |            |
|               |          | 4,000       | 245,341  | 3,000            | 245,371  | -3,00    | 870+0.000  | 245,461      | 244,189      | 1,272         | 3,000            | 245,371  | -3,00        | 4,000      | 245,341  |            |          |            |
|               |          | 4,000       | 245,994  | 3,000            | 246,024  | -3,00    | 871+0.000  | 246,114      | 245,022      | 1,092         | 3,000            | 246,024  | -3,00        | 4,000      | 245,994  |            |          |            |
|               |          | 4,000       | 246,739  | 3,000            | 246,769  | -3,00    | 872+0.000  | 246,859      | 246,180      | 0,679         | 3,000            | 246,769  | -3,00        | 4,000      | 246,739  |            |          |            |
|               |          | 4,000       | 247,575  | 3,000            | 247,605  | -3,00    | 873+0.000  | 247,695      | 247,299      | 0,396         | 3,000            | 247,605  | -3,00        | 4,000      | 247,575  |            |          |            |
|               |          | 4,000       | 248,167  | 3,000            | 248,197  | -3,00    | 873+13.000 | 248,287      | 248,216      | 0,071         | 3,000            | 248,197  | -3,00        | 4,000      | 248,167  |            |          |            |
|               |          | 4,000       | 248,496  | 3,000            | 248,526  | -3,00    | 874+0.000  | 248,616      | 248,725      | -0,109        | 3,000            | 248,526  | -3,00        | 4,000      | 248,496  |            |          |            |
|               |          | 4,000       | 248,731  | 3,000            | 248,761  | -3,00    | 874+5.000  | 248,851      | 249,096      | -0,245        | 3,000            | 248,761  | -3,00        | 4,000      | 248,731  |            |          |            |
|               |          | 4,000       | 249,389  | 3,000            | 249,419  | -3,00    | 875+0.000  | 249,509      | 250,048      | -0,539        | 3,000            | 249,419  | -3,00        | 4,000      | 249,389  |            |          |            |
|               |          | 4,000       | 250,117  | 3,000            | 250,147  | -3,00    | 876+0.000  | 250,237      | 251,069      | -0,832        | 3,000            | 250,147  | -3,00        | 4,000      | 250,117  |            |          |            |
|               |          | 4,000       | 250,673  | 3,000            | 250,703  | -3,00    | 877+0.000  | 250,793      | 252,101      | -1,308        | 3,000            | 250,703  | -3,00        | 4,000      | 250,673  |            |          |            |
|               |          | 4,000       | 251,059  | 3,000            | 251,089  | -3,00    | 878+0.000  | 251,179      | 252,650      | -1,471        | 3,000            | 251,089  | -3,00        | 4,000      | 251,059  |            |          |            |
|               |          | 4,000       | 251,274  | 3,000            | 251,304  | -3,00    | 879+0.000  | 251,394      | 253,618      | -2,224        | 3,000            | 251,304  | -3,00        | 4,000      | 251,274  |            |          |            |
|               |          | 4,000       | 251,303  | 3,000            | 251,333  | -3,00    | 879+5.383  | 251,423      | 253,885      | -2,462        | 3,000            | 251,333  | -3,00        | 4,000      | 251,303  |            |          |            |
|               |          | 4,000       | 251,303  | 3,000            | 251,333  | -3,00    | 879+5.392  | 251,423      | 253,885      | -2,462        | 3,000            | 251,333  | -3,00        | 4,000      | 251,303  |            |          |            |
|               |          | 4,000       | 251,323  | 3,000            | 251,353  | -3,00    | 879+15.172 | 251,443      | 254,320      | -2,877        | 3,000            | 251,353  | -3,00        | 4,000      | 251,323  |            |          |            |
|               |          | 4,000       | 251,318  | 3,000            | 251,348  | -3,00    | 880+0.000  | 251,438      | 254,364      | -2,926        | 3,000            | 251,348  | -3,00        | 4,000      | 251,318  |            |          |            |
|               |          | 4,000       | 251,191  | 3,000            | 251,221  | -3,00    | 881+0.000  | 251,311      | 254,555      | -3,244        | 3,000            | 251,221  | -3,00        | 4,000      | 251,191  |            |          |            |
|               |          | 4,000       | 250,894  | 3,000            | 250,924  | -3,00    | 882+0.000  | 251,014      | 253,769      | -2,755        | 3,000            | 250,924  | -3,00        | 4,000      | 250,894  |            |          |            |
|               |          | 4,000       | 250,793  | 3,000            | 250,823  | -3,00    | 882+5.000  | 250,913      | 253,518      | -2,605        | 3,000            | 250,823  | -3,00        | 4,000      | 250,793  |            |          |            |
|               |          | 4,000       | 250,474  | 3,000            | 250,504  | -3,00    | 883+0.000  | 250,594      | 252,559      | -1,965        | 3,000            | 250,504  | -3,00        | 4,000      | 250,474  |            |          |            |
|               |          | 4,000       | 250,048  | 3,000            | 250,078  | -3,00    | 884+0.000  | 250,168      | 250,421      | -0,253        | 3,000            | 250,078  | -3,00        | 4,000      | 250,048  |            |          |            |
|               |          | 4,000       | 249,623  | 3,000            | 249,653  | -3,00    | 885+0.000  | 249,743      | 247,418      | 2,325         | 3,000            | 249,653  | -3,00        | 4,000      | 249,623  |            |          |            |
|               |          | 4,000       | 249,197  | 3,000            | 249,227  | -3,00    | 886+0.000  | 249,317      | 245,044      | 4,273         | 3,000            | 249,227  | -3,00        | 4,000      | 249,197  |            |          |            |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |            |          |        |              |              | Eixo          |                  |            |             | Lado Direito |          |            |          |            |          |
|---------------|----------|-------------|----------|------------------|------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------|--------------|----------|------------|----------|------------|----------|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |            |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Acostamento |              | Offset   |            |          |            |          |
| Afast. (m)    | Cota (m) | Afast. (m)  | Cota (m) | Incl. (%)        | Afast. (m) | Cota (m) |        |              |              |               | Incl. (%)        | Afast. (m) | Cota (m)    | Afast. (m)   | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |
|               |          | 4,000       | 248,772  | -3,00            | 3,000      | 248,802  | -3,00  | 887+0.000    | 248,892      | 243,038       | 5,854            | 3,000      | 248,802     | -3,00        | 4,000    | 248,772    |          |            |          |
|               |          | 4,000       | 248,346  | -3,00            | 3,000      | 248,376  | -3,00  | 888+0.000    | 248,466      | 242,041       | 6,425            | 3,000      | 248,376     | -3,00        | 4,000    | 248,346    |          |            |          |
|               |          | 4,000       | 247,920  | -3,00            | 3,000      | 247,950  | -3,00  | 889+0.000    | 248,040      | 241,983       | 6,057            | 3,000      | 247,950     | -3,00        | 4,000    | 247,920    |          |            |          |
|               |          | 4,000       | 247,495  | -3,00            | 3,000      | 247,525  | -3,00  | 890+0.000    | 247,615      | 242,808       | 4,807            | 3,000      | 247,525     | -3,00        | 4,000    | 247,495    |          |            |          |
|               |          | 4,000       | 247,069  | -3,00            | 3,000      | 247,099  | -3,00  | 891+0.000    | 247,189      | 244,701       | 2,488            | 3,000      | 247,099     | -3,00        | 4,000    | 247,069    |          |            |          |
|               |          | 4,000       | 246,644  | -3,00            | 3,000      | 246,674  | -3,00  | 892+0.000    | 246,764      | 246,542       | 0,222            | 3,000      | 246,674     | -3,00        | 4,000    | 246,644    |          |            |          |
|               |          | 4,000       | 246,218  | -3,00            | 3,000      | 246,248  | -3,00  | 893+0.000    | 246,338      | 247,485       | -1,147           | 3,000      | 246,248     | -3,00        | 4,000    | 246,218    |          |            |          |
|               |          | 4,000       | 245,793  | -3,00            | 3,000      | 245,823  | -3,00  | 894+0.000    | 245,913      | 248,488       | -2,575           | 3,000      | 245,823     | -3,00        | 4,000    | 245,793    |          |            |          |
|               |          | 4,000       | 245,367  | -3,00            | 3,000      | 245,397  | -3,00  | 895+0.000    | 245,487      | 248,678       | -3,191           | 3,000      | 245,397     | -3,00        | 4,000    | 245,367    |          |            |          |
|               |          | 4,000       | 244,942  | -3,00            | 3,000      | 244,972  | -3,00  | 896+0.000    | 245,062      | 248,326       | -3,264           | 3,000      | 244,972     | -3,00        | 4,000    | 244,942    |          |            |          |
|               |          | 4,000       | 244,516  | -3,00            | 3,000      | 244,546  | -3,00  | 897+0.000    | 244,636      | 247,402       | -2,766           | 3,000      | 244,546     | -3,00        | 4,000    | 244,516    |          |            |          |
|               |          | 4,000       | 244,090  | -3,00            | 3,000      | 244,120  | -3,00  | 898+0.000    | 244,210      | 246,049       | -1,839           | 3,000      | 244,120     | -3,00        | 4,000    | 244,090    |          |            |          |
|               |          | 4,000       | 243,665  | -3,00            | 3,000      | 243,695  | -3,00  | 899+0.000    | 243,785      | 244,545       | -0,760           | 3,000      | 243,695     | -3,00        | 4,000    | 243,665    |          |            |          |
|               |          | 4,000       | 243,239  | -3,00            | 3,000      | 243,269  | -3,00  | 900+0.000    | 243,359      | 242,777       | 0,582            | 3,000      | 243,269     | -3,00        | 4,000    | 243,239    |          |            |          |
|               |          | 4,000       | 242,814  | -3,00            | 3,000      | 242,844  | -3,00  | 901+0.000    | 242,934      | 240,636       | 2,298            | 3,000      | 242,844     | -3,00        | 4,000    | 242,814    |          |            |          |
|               |          | 4,000       | 242,388  | -3,00            | 3,000      | 242,418  | -3,00  | 902+0.000    | 242,508      | 238,835       | 3,673            | 3,000      | 242,418     | -3,00        | 4,000    | 242,388    |          |            |          |
|               |          | 4,000       | 241,963  | -3,00            | 3,000      | 241,993  | -3,00  | 903+0.000    | 242,083      | 238,406       | 3,677            | 3,000      | 241,993     | -3,00        | 4,000    | 241,963    |          |            |          |
|               |          | 4,000       | 241,537  | -3,00            | 3,000      | 241,567  | -3,00  | 904+0.000    | 241,657      | 237,750       | 3,907            | 3,000      | 241,567     | -3,00        | 4,000    | 241,537    |          |            |          |
|               |          | 4,000       | 241,112  | -3,00            | 3,000      | 241,142  | -3,00  | 905+0.000    | 241,232      | 237,931       | 3,301            | 3,000      | 241,142     | -3,00        | 4,000    | 241,112    |          |            |          |
|               |          | 4,000       | 240,686  | -3,00            | 3,000      | 240,716  | -3,00  | 906+0.000    | 240,806      | 238,965       | 1,841            | 3,000      | 240,716     | -3,00        | 4,000    | 240,686    |          |            |          |
|               |          | 4,000       | 240,260  | -3,00            | 3,000      | 240,290  | -3,00  | 907+0.000    | 240,380      | 239,715       | 0,665            | 3,000      | 240,290     | -3,00        | 4,000    | 240,260    |          |            |          |
|               |          | 4,000       | 239,835  | -3,00            | 3,000      | 239,865  | -3,00  | 908+0.000    | 239,955      | 240,644       | -0,689           | 3,000      | 239,865     | -3,00        | 4,000    | 239,835    |          |            |          |
|               |          | 4,000       | 239,409  | -3,00            | 3,000      | 239,439  | -3,00  | 909+0.000    | 239,529      | 241,463       | -1,934           | 3,000      | 239,439     | -3,00        | 4,000    | 239,409    |          |            |          |
|               |          | 4,000       | 238,984  | -3,00            | 3,000      | 239,014  | -3,00  | 910+0.000    | 239,104      | 241,730       | -2,626           | 3,000      | 239,014     | -3,00        | 4,000    | 238,984    |          |            |          |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |           |           |              |              | Eixo          |                  |          |                   | Lado Direito |          |  |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|-----------|-----------|--------------|--------------|---------------|------------------|----------|-------------------|--------------|----------|--|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca    | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |              | Offset   |  |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |           |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m)   | Cota (m) |  |  |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 238,558  | 3,000            | 238,588  | -3,00     | 911+0,000 | 238,678      | 241,484      | -2,806        | 3,000            | 238,588  | -3,00             | 4,000        | 238,558  |  |  |  |  |
|               |          | 4,000             | 238,133  | 3,000            | 238,163  | -3,00     | 912+0,000 | 238,253      | 240,940      | -2,687        | 3,000            | 238,163  | -3,00             | 4,000        | 238,133  |  |  |  |  |
|               |          | 4,000             | 237,707  | 3,000            | 237,737  | -3,00     | 913+0,000 | 237,827      | 240,032      | -2,205        | 3,000            | 237,737  | -3,00             | 4,000        | 237,707  |  |  |  |  |
|               |          | 4,000             | 237,282  | 3,000            | 237,312  | -3,00     | 914+0,000 | 237,402      | 239,483      | -2,081        | 3,000            | 237,312  | -3,00             | 4,000        | 237,282  |  |  |  |  |
|               |          | 4,000             | 236,856  | 3,000            | 236,886  | -3,00     | 915+0,000 | 236,976      | 238,820      | -1,844        | 3,000            | 236,886  | -3,00             | 4,000        | 236,856  |  |  |  |  |
|               |          | 4,000             | 236,430  | 3,000            | 236,460  | -3,00     | 916+0,000 | 236,550      | 238,177      | -1,627        | 3,000            | 236,460  | -3,00             | 4,000        | 236,430  |  |  |  |  |
|               |          | 4,000             | 236,005  | 3,000            | 236,035  | -3,00     | 917+0,000 | 236,125      | 237,320      | -1,195        | 3,000            | 236,035  | -3,00             | 4,000        | 236,005  |  |  |  |  |
|               |          | 4,000             | 235,856  | 3,000            | 235,886  | -3,00     | 917+7,000 | 235,976      | 237,006      | -1,030        | 3,000            | 235,886  | -3,00             | 4,000        | 235,856  |  |  |  |  |
|               |          | 4,000             | 235,595  | 3,000            | 235,625  | -3,00     | 918+0,000 | 235,715      | 236,418      | -0,703        | 3,000            | 235,625  | -3,00             | 4,000        | 235,595  |  |  |  |  |
|               |          | 4,000             | 235,252  | 3,000            | 235,282  | -3,00     | 919+0,000 | 235,372      | 235,399      | -0,027        | 3,000            | 235,282  | -3,00             | 4,000        | 235,252  |  |  |  |  |
|               |          | 4,000             | 234,982  | 3,000            | 235,012  | -3,00     | 920+0,000 | 235,102      | 234,464      | 0,638         | 3,000            | 235,012  | -3,00             | 4,000        | 234,982  |  |  |  |  |
|               |          | 4,000             | 234,784  | 3,000            | 234,814  | -3,00     | 921+0,000 | 234,904      | 233,540      | 1,364         | 3,000            | 234,814  | -3,00             | 4,000        | 234,784  |  |  |  |  |
|               |          | 4,000             | 234,659  | 3,000            | 234,689  | -3,00     | 922+0,000 | 234,779      | 233,119      | 1,660         | 3,000            | 234,689  | -3,00             | 4,000        | 234,659  |  |  |  |  |
|               |          | 4,000             | 234,605  | 3,000            | 234,635  | -3,00     | 923+0,000 | 234,725      | 232,595      | 2,130         | 3,000            | 234,635  | -3,00             | 4,000        | 234,605  |  |  |  |  |
|               |          | 4,000             | 234,603  | 3,000            | 234,633  | -3,00     | 923+4,750 | 234,723      | 232,489      | 2,234         | 3,000            | 234,633  | -3,00             | 4,000        | 234,603  |  |  |  |  |
|               |          | 4,000             | 234,624  | 3,000            | 234,654  | -3,00     | 924+0,000 | 234,744      | 232,536      | 2,208         | 3,000            | 234,654  | -3,00             | 4,000        | 234,624  |  |  |  |  |
|               |          | 4,000             | 234,716  | 3,000            | 234,746  | -3,00     | 925+0,000 | 234,836      | 232,770      | 2,066         | 3,000            | 234,746  | -3,00             | 4,000        | 234,716  |  |  |  |  |
|               |          | 4,000             | 234,879  | 3,000            | 234,909  | -3,00     | 926+0,000 | 234,999      | 233,155      | 1,844         | 3,000            | 234,909  | -3,00             | 4,000        | 234,879  |  |  |  |  |
|               |          | 4,000             | 235,115  | 3,000            | 235,145  | -3,00     | 927+0,000 | 235,235      | 233,722      | 1,513         | 3,000            | 235,145  | -3,00             | 4,000        | 235,115  |  |  |  |  |
|               |          | 4,000             | 235,233  | 3,000            | 235,263  | -3,00     | 927+8,226 | 235,353      | 234,045      | 1,308         | 3,000            | 235,263  | -3,00             | 4,000        | 235,233  |  |  |  |  |
|               |          | 4,000             | 235,234  | 3,000            | 235,264  | -3,00     | 927+8,275 | 235,354      | 234,047      | 1,307         | 3,000            | 235,264  | -3,00             | 4,000        | 235,234  |  |  |  |  |
|               |          | 4,000             | 235,423  | 3,000            | 235,453  | -3,00     | 928+0,000 | 235,543      | 234,444      | 1,099         | 3,000            | 235,453  | -3,00             | 4,000        | 235,423  |  |  |  |  |
|               |          | 4,000             | 235,803  | 3,000            | 235,833  | -3,00     | 929+0,000 | 235,923      | 235,238      | 0,685         | 3,000            | 235,833  | -3,00             | 4,000        | 235,803  |  |  |  |  |
|               |          | 4,000             | 236,256  | 3,000            | 236,286  | -3,00     | 930+0,000 | 236,376      | 235,781      | 0,595         | 3,000            | 236,286  | -3,00             | 4,000        | 236,256  |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |         |                  |          |          |           |              |              | Eixo          |                  |          | Lado Direito      |            |         |  |          |  |  |
|---------------|----------|-------------------|---------|------------------|----------|----------|-----------|--------------|--------------|---------------|------------------|----------|-------------------|------------|---------|--|----------|--|--|
| Offset        |          | Bordo Acostamento |         | Bordo Semi-Pista |          |          | Estaca    | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset  |  |          |  |  |
|               |          |                   |         | Afast. (m)       | Cota (m) | Ind. (%) |           |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) |         |  | Cota (m) |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 236,432 | 3,000            | 236,462  | -3,00    | 930+7,000 | 236,552      | 235,850      | 0,702         | 3,000            | 236,462  | -3,00             | 4,000      | 236,432 |  |          |  |  |
|               |          | 4,000             | 236,766 | 3,000            | 236,796  | -3,00    | 931+0,000 | 236,886      | 236,289      | 0,597         | 3,000            | 236,796  | -3,00             | 4,000      | 236,766 |  |          |  |  |
|               |          | 4,000             | 237,280 | 3,000            | 237,310  | -3,00    | 932+0,000 | 237,400      | 237,062      | 0,338         | 3,000            | 237,310  | -3,00             | 4,000      | 237,280 |  |          |  |  |
|               |          | 4,000             | 237,794 | 3,000            | 237,824  | -3,00    | 933+0,000 | 237,914      | 237,685      | 0,229         | 3,000            | 237,824  | -3,00             | 4,000      | 237,794 |  |          |  |  |
|               |          | 4,000             | 238,308 | 3,000            | 238,338  | -3,00    | 934+0,000 | 238,428      | 238,642      | -0,214        | 3,000            | 238,338  | -3,00             | 4,000      | 238,308 |  |          |  |  |
|               |          | 4,000             | 238,822 | 3,000            | 238,852  | -3,00    | 935+0,000 | 238,942      | 239,392      | -0,450        | 3,000            | 238,852  | -3,00             | 4,000      | 238,822 |  |          |  |  |
|               |          | 4,000             | 239,336 | 3,000            | 239,366  | -3,00    | 936+0,000 | 239,456      | 240,239      | -0,783        | 3,000            | 239,366  | -3,00             | 4,000      | 239,336 |  |          |  |  |
|               |          | 4,000             | 239,850 | 3,000            | 239,880  | -3,00    | 937+0,000 | 239,970      | 241,584      | -1,614        | 3,000            | 239,880  | -3,00             | 4,000      | 239,850 |  |          |  |  |
|               |          | 4,000             | 240,364 | 3,000            | 240,394  | -3,00    | 938+0,000 | 240,484      | 242,334      | -1,850        | 3,000            | 240,394  | -3,00             | 4,000      | 240,364 |  |          |  |  |
|               |          | 4,000             | 240,878 | 3,000            | 240,908  | -3,00    | 939+0,000 | 240,998      | 242,553      | -1,555        | 3,000            | 240,908  | -3,00             | 4,000      | 240,878 |  |          |  |  |
|               |          | 4,000             | 241,393 | 3,000            | 241,423  | -3,00    | 940+0,000 | 241,513      | 243,272      | -1,759        | 3,000            | 241,423  | -3,00             | 4,000      | 241,393 |  |          |  |  |
|               |          | 4,000             | 241,907 | 3,000            | 241,937  | -3,00    | 941+0,000 | 242,027      | 243,450      | -1,423        | 3,000            | 241,937  | -3,00             | 4,000      | 241,907 |  |          |  |  |
|               |          | 4,000             | 242,421 | 3,000            | 242,451  | -3,00    | 942+0,000 | 242,541      | 243,335      | -0,794        | 3,000            | 242,451  | -3,00             | 4,000      | 242,421 |  |          |  |  |
|               |          | 4,000             | 242,935 | 3,000            | 242,965  | -3,00    | 943+0,000 | 243,055      | 243,182      | -0,127        | 3,000            | 242,965  | -3,00             | 4,000      | 242,935 |  |          |  |  |
|               |          | 4,000             | 243,449 | 3,000            | 243,479  | -3,00    | 944+0,000 | 243,569      | 243,177      | 0,392         | 3,000            | 243,479  | -3,00             | 4,000      | 243,449 |  |          |  |  |
|               |          | 4,000             | 243,963 | 3,000            | 243,993  | -3,00    | 945+0,000 | 244,083      | 243,386      | 0,697         | 3,000            | 243,993  | -3,00             | 4,000      | 243,963 |  |          |  |  |
|               |          | 4,000             | 244,477 | 3,000            | 244,507  | -3,00    | 946+0,000 | 244,597      | 243,466      | 1,131         | 3,000            | 244,507  | -3,00             | 4,000      | 244,477 |  |          |  |  |
|               |          | 4,000             | 244,991 | 3,000            | 245,021  | -3,00    | 947+0,000 | 245,111      | 243,669      | 1,442         | 3,000            | 245,021  | -3,00             | 4,000      | 244,991 |  |          |  |  |
|               |          | 4,000             | 245,505 | 3,000            | 245,535  | -3,00    | 948+0,000 | 245,625      | 243,680      | 1,945         | 3,000            | 245,535  | -3,00             | 4,000      | 245,505 |  |          |  |  |
|               |          | 4,000             | 246,019 | 3,000            | 246,049  | -3,00    | 949+0,000 | 246,139      | 243,915      | 2,224         | 3,000            | 246,049  | -3,00             | 4,000      | 246,019 |  |          |  |  |
|               |          | 4,000             | 246,533 | 3,000            | 246,563  | -3,00    | 950+0,000 | 246,653      | 244,109      | 2,544         | 3,000            | 246,563  | -3,00             | 4,000      | 246,533 |  |          |  |  |
|               |          | 4,000             | 247,048 | 3,000            | 247,078  | -3,00    | 951+0,000 | 247,168      | 244,704      | 2,464         | 3,000            | 247,078  | -3,00             | 4,000      | 247,048 |  |          |  |  |
|               |          | 4,000             | 247,562 | 3,000            | 247,592  | -3,00    | 952+0,000 | 247,682      | 245,115      | 2,567         | 3,000            | 247,592  | -3,00             | 4,000      | 247,562 |  |          |  |  |
|               |          | 4,000             | 248,076 | 3,000            | 248,106  | -3,00    | 953+0,000 | 248,196      | 245,775      | 2,421         | 3,000            | 248,106  | -3,00             | 4,000      | 248,076 |  |          |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |            |              |              | Eixo          |                  |          | Lado Direito      |            |          |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)          | Afast. (m) | Cota (m) |  |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 248,590  | 3,000            | 248,620  | -3,00    | 954+0.000  | 248,710      | 246,526      | 2,184         | 3,000            | 248,620  | -3,00             | 4,000      | 248,590  |  |  |  |
|               |          | 4,000             | 249,104  | 3,000            | 249,134  | -3,00    | 955+0.000  | 249,224      | 246,972      | 2,252         | 3,000            | 249,134  | -3,00             | 4,000      | 249,104  |  |  |  |
|               |          | 4,000             | 249,618  | 3,000            | 249,648  | -3,00    | 956+0.000  | 249,738      | 248,089      | 1,649         | 3,000            | 249,648  | -3,00             | 4,000      | 249,618  |  |  |  |
|               |          | 4,000             | 250,132  | 3,000            | 250,162  | -3,00    | 957+0.000  | 250,252      | 248,543      | 1,709         | 3,000            | 250,162  | -3,00             | 4,000      | 250,132  |  |  |  |
|               |          | 4,000             | 250,646  | 3,000            | 250,676  | -3,00    | 958+0.000  | 250,766      | 249,386      | 1,380         | 3,000            | 250,676  | -3,00             | 4,000      | 250,646  |  |  |  |
|               |          | 4,000             | 251,032  | 3,000            | 251,062  | -3,00    | 958+15.000 | 251,152      | 250,096      | 1,056         | 3,000            | 251,062  | -3,00             | 4,000      | 251,032  |  |  |  |
|               |          | 4,000             | 251,156  | 3,000            | 251,186  | -3,00    | 959+0.000  | 251,276      | 250,485      | 0,791         | 3,000            | 251,186  | -3,00             | 4,000      | 251,156  |  |  |  |
|               |          | 4,000             | 251,572  | 3,000            | 251,602  | -3,00    | 960+0.000  | 251,692      | 251,885      | -0,193        | 3,000            | 251,602  | -3,00             | 4,000      | 251,572  |  |  |  |
|               |          | 4,000             | 251,857  | 3,000            | 251,887  | -3,00    | 961+0.000  | 251,977      | 253,299      | -1,322        | 3,000            | 251,887  | -3,00             | 4,000      | 251,857  |  |  |  |
|               |          | 4,000             | 252,012  | 3,000            | 252,042  | -3,00    | 962+0.000  | 252,132      | 254,373      | -2,241        | 3,000            | 252,042  | -3,00             | 4,000      | 252,012  |  |  |  |
|               |          | 4,000             | 252,042  | 3,000            | 252,072  | -3,00    | 962+13.615 | 252,162      | 255,037      | -2,875        | 3,000            | 252,072  | -3,00             | 4,000      | 252,042  |  |  |  |
|               |          | 4,000             | 252,036  | 3,000            | 252,066  | -3,00    | 963+0.000  | 252,156      | 255,529      | -3,373        | 3,000            | 252,066  | -3,00             | 4,000      | 252,036  |  |  |  |
|               |          | 4,000             | 251,928  | 3,000            | 251,958  | -3,00    | 964+0.000  | 252,048      | 256,825      | -4,777        | 3,000            | 251,958  | -3,00             | 4,000      | 251,928  |  |  |  |
|               |          | 4,000             | 251,690  | 3,000            | 251,720  | -3,00    | 965+0.000  | 251,810      | 257,154      | -5,344        | 3,000            | 251,720  | -3,00             | 4,000      | 251,690  |  |  |  |
|               |          | 4,000             | 251,322  | 3,000            | 251,352  | -3,00    | 966+0.000  | 251,442      | 256,923      | -5,481        | 3,000            | 251,352  | -3,00             | 4,000      | 251,322  |  |  |  |
|               |          | 4,000             | 250,822  | 3,000            | 250,852  | -3,00    | 967+0.000  | 250,942      | 255,856      | -4,914        | 3,000            | 250,852  | -3,00             | 4,000      | 250,822  |  |  |  |
|               |          | 4,000             | 250,192  | 3,000            | 250,222  | -3,00    | 968+0.000  | 250,312      | 254,182      | -3,870        | 3,000            | 250,222  | -3,00             | 4,000      | 250,192  |  |  |  |
|               |          | 4,000             | 249,431  | 3,000            | 249,461  | -3,00    | 969+0.000  | 249,551      | 252,395      | -2,844        | 3,000            | 249,461  | -3,00             | 4,000      | 249,431  |  |  |  |
|               |          | 4,000             | 248,539  | 3,000            | 248,569  | -3,00    | 970+0.000  | 248,659      | 250,661      | -2,002        | 3,000            | 248,569  | -3,00             | 4,000      | 248,539  |  |  |  |
|               |          | 4,000             | 247,784  | 3,000            | 247,814  | -3,00    | 970+15.000 | 247,904      | 249,555      | -1,651        | 3,000            | 247,814  | -3,00             | 4,000      | 247,784  |  |  |  |
|               |          | 4,000             | 247,520  | 3,000            | 247,550  | -3,00    | 971+0.000  | 247,640      | 248,655      | -1,015        | 3,000            | 247,550  | -3,00             | 4,000      | 247,520  |  |  |  |
|               |          | 4,000             | 246,465  | 3,000            | 246,495  | -3,00    | 972+0.000  | 246,585      | 246,145      | 0,440         | 3,000            | 246,495  | -3,00             | 4,000      | 246,465  |  |  |  |
|               |          | 4,000             | 245,410  | 3,000            | 245,440  | -3,00    | 973+0.000  | 245,530      | 244,595      | 0,935         | 3,000            | 245,440  | -3,00             | 4,000      | 245,410  |  |  |  |
|               |          | 4,000             | 244,354  | 3,000            | 244,384  | -3,00    | 974+0.000  | 244,474      | 242,944      | 1,530         | 3,000            | 244,384  | -3,00             | 4,000      | 244,354  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo           |          |                   |          |                  |          |        |              |              |               | Eixo             |            |                   |            | Lado Direito |         |  |  |  |  |  |  |
|-------------------------|----------|-------------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------------|------------|--------------|---------|--|--|--|--|--|--|
| Offset                  |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |            | Offset       |         |  |  |  |  |  |  |
|                         |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Ind. (%)         | Afast. (m) | Cota (m)          | Afast. (m) | Cota (m)     |         |  |  |  |  |  |  |
| Afast. (m)              | Cota (m) | 4,000             | 243,299  | 3,000            | 243,329  | -3,00  | 975+0.000    | 243,419      | 241,570       | 1,849            | 3,000      | 243,329           | -3,00      | 4,000        | 243,299 |  |  |  |  |  |  |
|                         |          | 4,000             | 242,244  | 3,000            | 242,274  | -3,00  | 976+0.000    | 242,364      | 240,352       | 2,012            | 3,000      | 242,274           | -3,00      | 4,000        | 242,244 |  |  |  |  |  |  |
|                         |          | 4,000             | 241,188  | 3,000            | 241,218  | -3,00  | 977+0.000    | 241,308      | 239,565       | 1,743            | 3,000      | 241,218           | -3,00      | 4,000        | 241,188 |  |  |  |  |  |  |
|                         |          | 4,000             | 240,133  | 3,000            | 240,163  | -3,00  | 978+0.000    | 240,253      | 238,906       | 1,347            | 3,000      | 240,163           | -3,00      | 4,000        | 240,133 |  |  |  |  |  |  |
|                         |          | 4,000             | 239,077  | 3,000            | 239,107  | -3,00  | 979+0.000    | 239,197      | 237,972       | 1,225            | 3,000      | 239,107           | -3,00      | 4,000        | 239,077 |  |  |  |  |  |  |
|                         |          | 4,000             | 238,022  | 3,000            | 238,052  | -3,00  | 980+0.000    | 238,142      | 236,900       | 1,242            | 3,000      | 238,052           | -3,00      | 4,000        | 238,022 |  |  |  |  |  |  |
|                         |          | 4,000             | 236,967  | 3,000            | 236,997  | -3,00  | 981+0.000    | 237,087      | 235,779       | 1,308            | 3,000      | 236,997           | -3,00      | 4,000        | 236,967 |  |  |  |  |  |  |
|                         |          | 4,000             | 236,730  | 3,000            | 236,760  | -3,00  | 981+4.495    | 236,850      | 235,681       | 1,169            | 3,000      | 236,760           | -3,00      | 4,000        | 236,730 |  |  |  |  |  |  |
|                         |          | 4,000             | 235,911  | 3,000            | 235,941  | -3,00  | 982+0.000    | 236,031      | 234,820       | 1,211            | 3,000      | 236,020           | -0,36      | 4,000        | 236,017 |  |  |  |  |  |  |
|                         |          | 4,000             | 235,798  | 3,000            | 235,828  | -3,00  | 982+2.142    | 235,918      | 234,676       | 1,242            | 3,000      | 235,918           | 0,00       | 4,000        | 235,918 |  |  |  |  |  |  |
|                         |          | 4,000             | 235,376  | 3,000            | 235,406  | -3,00  | 982+10.142   | 235,496      | 234,138       | 1,358            | 3,000      | 235,537           | 1,36       | 4,000        | 235,550 |  |  |  |  |  |  |
|                         |          | 4,000             | 234,867  | 3,000            | 234,897  | -3,00  | 982+19.789   | 234,987      | 233,325       | 1,662            | 3,000      | 235,077           | 3,00       | 4,000        | 235,107 |  |  |  |  |  |  |
|                         |          | 4,000             | 234,854  | 3,000            | 234,885  | -3,04  | 983+0.000    | 234,976      | 233,306       | 1,670            | 3,000      | 235,067           | 3,04       | 4,000        | 235,098 |  |  |  |  |  |  |
|                         |          | 4,000             | 234,727  | 3,000            | 234,761  | -3,40  | 983+2.142    | 234,863      | 233,124       | 1,739            | 3,000      | 234,965           | 3,40       | 4,000        | 234,999 |  |  |  |  |  |  |
|                         |          | 4,000             | 233,785  | 3,000            | 233,819  | -3,40  | 984+0.000    | 233,921      | 231,560       | 2,361            | 3,000      | 234,023           | 3,40       | 4,000        | 234,057 |  |  |  |  |  |  |
| INÍCIO DA INTERSEÇÃO 02 |          |                   |          |                  |          |        |              |              |               |                  |            |                   |            |              |         |  |  |  |  |  |  |
|                         |          | 4,000             | 232,729  | 3,000            | 232,763  | -3,40  | 985+0.000    | 232,865      | 231,281       | 1,584            | 3,000      | 232,967           | 3,40       | 4,000        | 233,001 |  |  |  |  |  |  |
|                         |          | 4,000             | 231,674  | 3,000            | 231,708  | -3,40  | 986+0.000    | 231,810      | 230,099       | 1,711            | 3,000      | 231,912           | 3,40       | 4,000        | 231,946 |  |  |  |  |  |  |
|                         |          | 4,000             | 231,568  | 3,000            | 231,602  | -3,40  | 986+2.000    | 231,704      | 230,041       | 1,663            | 3,000      | 231,806           | 3,40       | 4,000        | 231,840 |  |  |  |  |  |  |
|                         |          | 4,000             | 230,679  | 3,000            | 230,713  | -3,40  | 987+0.000    | 230,815      | 228,918       | 1,897            | 3,000      | 230,917           | 3,40       | 4,000        | 230,951 |  |  |  |  |  |  |
|                         |          | 4,000             | 229,831  | 3,000            | 229,865  | -3,40  | 988+0.000    | 229,967      | 228,022       | 1,945            | 3,000      | 230,069           | 3,40       | 4,000        | 230,103 |  |  |  |  |  |  |
|                         |          | 4,000             | 229,132  | 3,000            | 229,166  | -3,40  | 989+0.000    | 229,268      | 227,647       | 1,621            | 3,000      | 229,370           | 3,40       | 4,000        | 229,404 |  |  |  |  |  |  |
|                         |          | 4,000             | 228,579  | 3,000            | 228,613  | -3,40  | 990+0.000    | 228,715      | 227,899       | 0,816            | 3,000      | 228,817           | 3,40       | 4,000        | 228,851 |  |  |  |  |  |  |
|                         |          | 4,000             | 228,380  | 3,000            | 228,414  | -3,40  | 990+8.544    | 228,516      | 228,103       | 0,413            | 3,000      | 228,618           | 3,40       | 4,000        | 228,652 |  |  |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo                      |          |                   |          |                  |          | Eixo     |              |              |               | Lado Direito     |            |                   |                                    |            |          |
|------------------------------------|----------|-------------------|----------|------------------|----------|----------|--------------|--------------|---------------|------------------|------------|-------------------|------------------------------------|------------|----------|
| Offset                             |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca   | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |                                    | Offset     |          |
| Afast. (m)                         | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |          |              |              |               | Ind. (%)         | Afast. (m) | Cota (m)          | Ind. (%)                           | Afast. (m) | Cota (m) |
|                                    |          | 4,000             | 228,146  | 3,000            | 228,180  | -3,40    | 991+0.000    | 228,089      | 0,193         | 3,000            | 228,384    | 3,40              | 4,000                              | 228,418    |          |
|                                    |          | 4,000             | 227,827  | 3,000            | 227,861  | -3,40    | 992+0.000    | 227,963      | 1,118         | 3,000            | 228,065    | 3,40              | 4,000                              | 228,099    |          |
|                                    |          | 4,000             | 227,621  | 3,000            | 227,655  | -3,40    | 993+0.000    | 227,757      | 1,335         | 3,000            | 227,859    | 3,40              | 4,000                              | 227,893    |          |
|                                    |          | 4,000             | 227,552  | 3,000            | 227,586  | -3,40    | 993+12.000   | 227,688      | 1,426         | 3,000            | 227,790    | 3,40              | 4,000                              | 227,824    |          |
|                                    |          | 4,000             | 227,520  | 3,000            | 227,554  | -3,40    | 994+0.000    | 227,656      | 1,525         | 3,000            | 227,758    | 3,40              | 4,000                              | 227,792    |          |
|                                    |          | 4,000             | 227,439  | 3,000            | 227,473  | -3,40    | 995+0.000    | 227,575      | 1,530         | 3,000            | 227,677    | 3,40              | 4,000                              | 227,711    |          |
|                                    |          | 4,000             | 227,359  | 3,000            | 227,393  | -3,40    | 996+0.000    | 227,495      | 1,278         | 3,000            | 227,597    | 3,40              | 4,000                              | 227,631    |          |
| FINAL DA INTERSEÇÃO 02             |          |                   |          |                  |          |          |              |              |               |                  |            |                   |                                    |            |          |
| INTERSEÇÃO 02 - RAMO 01            |          |                   |          |                  |          |          |              |              |               |                  |            |                   |                                    |            |          |
| Sobreposição com a pista principal |          |                   |          |                  |          | 0+0.000  |              |              |               |                  |            |                   | Sobreposição com a pista principal |            |          |
|                                    |          |                   |          |                  |          | 1+0.000  |              |              |               |                  |            |                   |                                    |            |          |
|                                    |          |                   |          |                  |          | 2+0.000  |              |              |               |                  |            |                   |                                    |            |          |
|                                    |          |                   |          | 1,000            | 232,861  | 3,00     | 232,831      | 230,580      | 2,251         | 3,000            | 232,741    | -3,00             | 4,000                              | 232,711    |          |
|                                    |          |                   |          | 1,000            | 232,244  | 3,00     | 232,214      | 230,215      | 1,999         | 3,000            | 232,124    | -3,00             | 4,000                              | 232,094    |          |
|                                    |          |                   |          | 1,000            | 230,831  | 3,00     | 230,801      | 229,786      | 1,015         | 3,000            | 230,711    | -3,00             | 4,000                              | 230,681    |          |
|                                    |          |                   |          | 1,000            | 230,580  | 3,00     | 230,550      | 229,679      | 0,871         | 3,000            | 230,460    | -3,00             | 4,000                              | 230,430    |          |
|                                    |          |                   |          | 1,000            | 229,550  | 3,00     | 229,520      | 229,106      | 0,414         | 3,000            | 229,430    | -3,00             | 4,000                              | 229,400    |          |
|                                    |          |                   |          | 1,000            | 228,975  | 3,00     | 228,945      | 227,999      | 0,946         | 3,000            | 228,855    | -3,00             | 4,000                              | 228,825    |          |
| Sobreposição com a Rótula          |          |                   |          |                  |          | 6+3.280  |              |              |               |                  |            |                   | Sobreposição com a Rótula          |            |          |
|                                    |          |                   |          |                  |          | 6+19.145 |              |              |               |                  |            |                   |                                    |            |          |
| INTERSEÇÃO 02 - RAMO 02            |          |                   |          |                  |          |          |              |              |               |                  |            |                   |                                    |            |          |
| Sobreposição com Ramo 01           |          |                   |          |                  |          | 0+0.000  |              |              |               |                  |            |                   | Sobreposição com Ramo 01           |            |          |
|                                    |          |                   |          |                  |          | 0+15.000 |              |              |               |                  |            |                   |                                    |            |          |
|                                    |          |                   |          |                  |          | 0+18.316 |              |              |               |                  |            |                   |                                    |            |          |
|                                    |          |                   |          | 1,000            | 229,813  | 3,00     | 229,783      | 228,911      | 0,872         | 3,000            | 229,693    | -3,00             | 4,000                              | 229,663    |          |
|                                    |          |                   |          | 1,000            | 229,796  | 3,00     | 229,766      | 229,006      | 0,760         | 3,000            | 229,676    | -3,00             | 4,000                              | 229,646    |          |



**Rodovia : RO-010      Lote 01**

**Revisão, Adequação e Atualização  
de Projeto Executivo de Engenharia**

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo                      |          |                   |          |                  |          |           | Eixo       |              |                                    |               | Lado Direito     |          |                   |            |          |            |          |  |
|------------------------------------|----------|-------------------|----------|------------------|----------|-----------|------------|--------------|------------------------------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|--|
| Offset                             |          | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno                       | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |  |
|                                    |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |                                    |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |  |
| Afast. (m)                         | Cota (m) |                   |          |                  |          |           |            |              |                                    |               |                  |          |                   |            |          |            |          |  |
|                                    |          | 4,000             | 228,821  | 3,000            | 228,851  | -3,00     | 1+0.000    | 228,941      | 228,839                            | 0,102         |                  | 3,000    | 229,031           | 3,00       | 4,000    | 229,061    |          |  |
|                                    |          | 4,000             | 228,820  | 3,000            | 228,850  | -3,00     | 1+0.147    | 228,940      | 228,854                            | 0,086         |                  | 3,000    | 229,030           | 3,00       | 4,000    | 229,060    |          |  |
|                                    |          | 4,000             | 228,721  | 3,000            | 228,751  | -3,00     | 2+0.000    | 228,841      | 228,338                            | 0,503         |                  | 3,000    | 228,931           | 3,00       | 4,000    | 228,961    |          |  |
|                                    |          | 4,000             | 228,719  | 3,000            | 228,749  | -3,00     | 2+0.294    | 228,839      | 228,333                            | 0,506         |                  | 3,000    | 228,929           | 3,00       | 4,000    | 228,959    |          |  |
|                                    |          | 4,000             | 228,652  | 3,000            | 228,682  | -3,00     | 2+13.851   | 228,772      | 228,293                            | 0,479         |                  | 3,000    | 228,862           | 3,00       | 4,000    | 228,892    |          |  |
|                                    |          | 4,000             | 228,621  | 3,000            | 228,651  | -3,00     | 3+0.000    | 228,741      | 228,230                            | 0,511         |                  | 3,000    | 228,831           | 3,00       | 4,000    | 228,861    |          |  |
|                                    |          | 4,000             | 228,584  | 3,000            | 228,614  | -3,00     | 3+7.408    | 228,704      | 228,101                            | 0,603         |                  | 3,000    | 228,794           | 3,00       | 4,000    | 228,824    |          |  |
|                                    |          | 4,000             | 228,521  | 3,000            | 228,551  | -3,00     | 4+0.000    | 228,641      | 227,265                            | 1,376         |                  | 3,000    | 228,731           | 3,00       | 4,000    | 228,761    |          |  |
|                                    |          | 4,000             | 228,485  | 3,000            | 228,515  | -3,00     | 4+7.169    | 228,605      | 228,138                            | 0,467         |                  | 3,000    | 228,695           | 3,00       | 4,000    | 228,725    |          |  |
|                                    |          | 4,000             | 228,446  | 3,000            | 228,476  | -3,00     | 4+15.000   | 228,566      | 227,641                            | 0,925         |                  | 3,000    | 228,656           | 3,00       | 4,000    | 228,686    |          |  |
| Sobreposição com a pista principal |          |                   |          |                  |          |           | 5+0.000    |              | Sobreposição com a pista principal |               |                  |          |                   |            |          |            |          |  |
|                                    |          |                   |          |                  |          |           | 5+6.931    |              |                                    |               |                  |          |                   |            |          |            |          |  |
| CONTINUAÇÃO PISTA RO-010           |          |                   |          |                  |          |           |            |              |                                    |               |                  |          |                   |            |          |            |          |  |
|                                    |          | 4,000             | 227,278  | 3,000            | 227,312  | -3,40     | 997+0.000  | 227,414      | 226,491                            | 0,923         |                  | 3,000    | 227,516           | 3,40       | 4,000    | 227,550    |          |  |
|                                    |          | 4,000             | 227,218  | 3,000            | 227,252  | -3,40     | 997+14.945 | 227,354      | 226,466                            | 0,888         |                  | 3,000    | 227,456           | 3,40       | 4,000    | 227,490    |          |  |
|                                    |          | 4,000             | 227,224  | 3,000            | 227,254  | -3,00     | 997+17.298 | 227,344      | 226,470                            | 0,874         |                  | 3,000    | 227,434           | 3,00       | 4,000    | 227,464    |          |  |
|                                    |          | 4,000             | 227,213  | 3,000            | 227,243  | -3,00     | 998+0.000  | 227,333      | 226,473                            | 0,860         |                  | 3,000    | 227,409           | 2,54       | 4,000    | 227,435    |          |  |
|                                    |          | 4,000             | 227,185  | 3,000            | 227,215  | -3,00     | 998+6.945  | 227,305      | 226,478                            | 0,827         |                  | 3,000    | 227,346           | 1,36       | 4,000    | 227,359    |          |  |
|                                    |          | 4,000             | 227,153  | 3,000            | 227,183  | -3,00     | 998+14.945 | 227,273      | 226,463                            | 0,810         |                  | 3,000    | 227,273           | 0,00       | 4,000    | 227,273    |          |  |
|                                    |          | 4,000             | 227,133  | 3,000            | 227,163  | -3,00     | 999+0.000  | 227,253      | 226,412                            | 0,841         |                  | 3,000    | 227,227           | -0,86      | 4,000    | 227,219    |          |  |
|                                    |          | 4,000             | 227,082  | 3,000            | 227,112  | -3,00     | 999+12.592 | 227,202      | 226,261                            | 0,941         |                  | 3,000    | 227,112           | -3,00      | 4,000    | 227,082    |          |  |
|                                    |          | 4,000             | 227,052  | 3,000            | 227,082  | -3,00     | 1000+0.000 | 227,172      | 226,129                            | 1,043         |                  | 3,000    | 227,082           | -3,00      | 4,000    | 227,052    |          |  |
|                                    |          | 4,000             | 226,972  | 3,000            | 227,002  | -3,00     | 1001+0.000 | 227,092      | 225,836                            | 1,256         |                  | 3,000    | 227,002           | -3,00      | 4,000    | 226,972    |          |  |
|                                    |          | 4,000             | 226,891  | 3,000            | 226,921  | -3,00     | 1002+0.000 | 227,011      | 225,738                            | 1,273         |                  | 3,000    | 226,921           | -3,00      | 4,000    | 226,891    |          |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |           |             |              |              | Eixo          |                  |          | Lado Direito      |            |          |            |          |  |
|---------------|----------|-------------------|----------|------------------|----------|-----------|-------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |           | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |             |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |  |
| Afast. (m)    | Cota (m) |                   |          |                  |          |           |             |              |              |               |                  |          |                   |            |          |            |          |  |
|               |          | 4,000             | 226,810  | 3,000            | 226,840  | -3,00     | 1003+0.000  | 226,930      | 225,598      | 1,332         |                  | 3,000    | 226,840           | -3,00      | 4,000    | 226,810    |          |  |
|               |          | 4,000             | 226,730  | 3,000            | 226,760  | -3,00     | 1004+0.000  | 226,850      | 225,448      | 1,402         |                  | 3,000    | 226,760           | -3,00      | 4,000    | 226,730    |          |  |
|               |          | 4,000             | 226,649  | 3,000            | 226,679  | -3,00     | 1005+0.000  | 226,769      | 225,341      | 1,428         |                  | 3,000    | 226,679           | -3,00      | 4,000    | 226,649    |          |  |
|               |          | 4,000             | 226,569  | 3,000            | 226,599  | -3,00     | 1006+0.000  | 226,689      | 224,512      | 2,177         |                  | 3,000    | 226,599           | -3,00      | 4,000    | 226,569    |          |  |
|               |          | 4,000             | 226,488  | 3,000            | 226,518  | -3,00     | 1007+0.000  | 226,608      | 225,543      | 1,065         |                  | 3,000    | 226,518           | -3,00      | 4,000    | 226,488    |          |  |
|               |          | 4,000             | 226,407  | 3,000            | 226,437  | -3,00     | 1008+0.000  | 226,527      | 225,850      | 0,677         |                  | 3,000    | 226,437           | -3,00      | 4,000    | 226,407    |          |  |
|               |          | 4,000             | 226,363  | 3,000            | 226,393  | -3,00     | 1008+11.046 | 226,483      | 225,880      | 0,603         |                  | 3,000    | 226,393           | -3,00      | 4,000    | 226,363    |          |  |
|               |          | 4,384             | 226,315  | 3,384            | 226,345  | -3,00     | 1009+0.000  | 226,447      | 225,817      | 0,630         |                  | 3,384    | 226,345           | -3,00      | 4,384    | 226,315    |          |  |
|               |          | 5,241             | 226,209  | 4,241            | 226,239  | -3,00     | 1010+0.000  | 226,366      | 226,018      | 0,348         |                  | 4,241    | 226,239           | -3,00      | 5,241    | 226,209    |          |  |
|               |          | 6,098             | 226,103  | 5,098            | 226,133  | -3,00     | 1011+0.000  | 226,286      | 225,803      | 0,483         |                  | 5,098    | 226,133           | -3,00      | 6,098    | 226,103    |          |  |
|               |          | 6,955             | 225,996  | 5,955            | 226,026  | -3,00     | 1012+0.000  | 226,205      | 226,158      | 0,047         |                  | 5,955    | 226,026           | -3,00      | 6,955    | 225,996    |          |  |
|               |          | 7,000             | 225,991  | 6,000            | 226,021  | -3,00     | 1012+1.046  | 226,201      | 226,191      | 0,010         |                  | 6,000    | 226,021           | -3,00      | 7,000    | 225,991    |          |  |
|               |          | 7,000             | 225,914  | 6,000            | 225,944  | -3,00     | 1013+0.000  | 226,124      | 226,375      | -0,251        |                  | 6,000    | 225,944           | -3,00      | 7,000    | 225,914    |          |  |
|               |          | 7,000             | 225,834  | 6,000            | 225,864  | -3,00     | 1014+0.000  | 226,044      | 226,559      | -0,515        |                  | 6,000    | 225,864           | -3,00      | 7,000    | 225,834    |          |  |
|               |          | 7,000             | 225,829  | 6,000            | 225,859  | -3,00     | 1014+1.054  | 226,039      | 226,569      | -0,530        |                  | 6,000    | 225,859           | -3,00      | 7,000    | 225,829    |          |  |
|               |          | 6,188             | 225,777  | 5,188            | 225,807  | -3,00     | 1015+0.000  | 225,963      | 226,406      | -0,443        |                  | 5,188    | 225,807           | -3,00      | 6,188    | 225,777    |          |  |
|               |          | 5,331             | 225,722  | 4,331            | 225,752  | -3,00     | 1016+0.000  | 225,882      | 226,235      | -0,353        |                  | 4,331    | 225,752           | -3,00      | 5,331    | 225,722    |          |  |
|               |          | 4,474             | 225,668  | 3,474            | 225,698  | -3,00     | 1017+0.000  | 225,802      | 225,866      | -0,064        |                  | 3,474    | 225,698           | -3,00      | 4,474    | 225,668    |          |  |
|               |          | 4,000             | 225,637  | 3,000            | 225,667  | -3,00     | 1017+11.054 | 225,757      | 225,780      | -0,023        |                  | 3,000    | 225,667           | -3,00      | 4,000    | 225,637    |          |  |
|               |          | 4,000             | 225,601  | 3,000            | 225,631  | -3,00     | 1018+0.000  | 225,721      | 225,731      | -0,010        |                  | 3,000    | 225,631           | -3,00      | 4,000    | 225,601    |          |  |
|               |          | 4,000             | 225,521  | 3,000            | 225,551  | -3,00     | 1019+0.000  | 225,641      | 225,204      | 0,437         |                  | 3,000    | 225,551           | -3,00      | 4,000    | 225,521    |          |  |
|               |          | 4,000             | 225,440  | 3,000            | 225,470  | -3,00     | 1020+0.000  | 225,560      | 224,733      | 0,827         |                  | 3,000    | 225,470           | -3,00      | 4,000    | 225,440    |          |  |
|               |          | 4,000             | 225,359  | 3,000            | 225,389  | -3,00     | 1021+0.000  | 225,479      | 224,418      | 1,061         |                  | 3,000    | 225,389           | -3,00      | 4,000    | 225,359    |          |  |
|               |          | 4,000             | 225,279  | 3,000            | 225,309  | -3,00     | 1022+0.000  | 225,399      | 223,880      | 1,519         |                  | 3,000    | 225,309           | -3,00      | 4,000    | 225,279    |          |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |          |           |            |              |              | Eixo          |                  |          | Lado Direito |            |          |            |          |            |
|---------------|----------|-------------|----------|------------------|----------|-----------|------------|--------------|--------------|---------------|------------------|----------|--------------|------------|----------|------------|----------|------------|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Acostamento  |            | Offset   |            |          |            |
| Afast. (m)    | Cota (m) | Afast. (m)  | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)    | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) |
|               |          | 4,000       | 225,198  | 3,000            | 225,228  | -3,00     | 1023+0.000 | 225,318      | 224,009      | 1,309         |                  | 225,228  | -3,00        | 4,000      | 225,198  |            |          |            |
|               |          | 4,000       | 225,118  | 3,000            | 225,148  | -3,00     | 1024+0.000 | 225,238      | 224,014      | 1,224         |                  | 225,148  | -3,00        | 4,000      | 225,118  |            |          |            |
|               |          | 4,000       | 225,037  | 3,000            | 225,067  | -3,00     | 1025+0.000 | 225,157      | 223,914      | 1,243         |                  | 225,067  | -3,00        | 4,000      | 225,037  |            |          |            |
|               |          | 4,000       | 225,017  | 3,000            | 225,047  | -3,00     | 1025+5.000 | 225,137      | 223,877      | 1,260         |                  | 225,047  | -3,00        | 4,000      | 225,017  |            |          |            |
|               |          | 4,000       | 224,963  | 3,000            | 224,993  | -3,00     | 1026+0.000 | 225,083      | 223,770      | 1,313         |                  | 224,993  | -3,00        | 4,000      | 224,963  |            |          |            |
|               |          | 4,000       | 224,914  | 3,000            | 224,944  | -3,00     | 1027+0.000 | 225,034      | 223,982      | 1,052         |                  | 224,944  | -3,00        | 4,000      | 224,914  |            |          |            |
|               |          | 4,000       | 224,890  | 3,000            | 224,920  | -3,00     | 1028+0.000 | 225,010      | 224,139      | 0,871         |                  | 224,920  | -3,00        | 4,000      | 224,890  |            |          |            |
|               |          | 4,000       | 224,888  | 3,000            | 224,918  | -3,00     | 1028+9.080 | 225,008      | 223,979      | 1,029         |                  | 224,918  | -3,00        | 4,000      | 224,888  |            |          |            |
|               |          | 4,000       | 224,891  | 3,000            | 224,921  | -3,00     | 1029+0.000 | 225,011      | 223,728      | 1,283         |                  | 224,921  | -3,00        | 4,000      | 224,891  |            |          |            |
|               |          | 4,000       | 224,918  | 3,000            | 224,948  | -3,00     | 1030+0.000 | 225,038      | 223,274      | 1,764         |                  | 224,948  | -3,00        | 4,000      | 224,918  |            |          |            |
|               |          | 4,000       | 224,969  | 3,000            | 224,999  | -3,00     | 1031+0.000 | 225,089      | 223,343      | 1,746         |                  | 224,999  | -3,00        | 4,000      | 224,969  |            |          |            |
|               |          | 4,000       | 225,046  | 3,000            | 225,076  | -3,00     | 1032+0.000 | 225,166      | 224,001      | 1,165         |                  | 225,076  | -3,00        | 4,000      | 225,046  |            |          |            |
|               |          | 4,000       | 225,148  | 3,000            | 225,178  | -3,00     | 1033+0.000 | 225,268      | 223,730      | 1,538         |                  | 225,178  | -3,00        | 4,000      | 225,148  |            |          |            |
|               |          | 4,000       | 225,275  | 3,000            | 225,305  | -3,00     | 1034+0.000 | 225,395      | 223,660      | 1,735         |                  | 225,305  | -3,00        | 4,000      | 225,275  |            |          |            |
|               |          | 4,000       | 225,427  | 3,000            | 225,457  | -3,00     | 1035+0.000 | 225,547      | 223,775      | 1,772         |                  | 225,457  | -3,00        | 4,000      | 225,427  |            |          |            |
|               |          | 4,000       | 225,469  | 3,000            | 225,499  | -3,00     | 1035+5.000 | 225,589      | 223,807      | 1,782         |                  | 225,499  | -3,00        | 4,000      | 225,469  |            |          |            |
|               |          | 4,000       | 225,597  | 3,000            | 225,627  | -3,00     | 1036+0.000 | 225,717      | 224,086      | 1,631         |                  | 225,627  | -3,00        | 4,000      | 225,597  |            |          |            |
|               |          | 4,000       | 225,768  | 3,000            | 225,798  | -3,00     | 1037+0.000 | 225,888      | 224,687      | 1,201         |                  | 225,798  | -3,00        | 4,000      | 225,768  |            |          |            |
|               |          | 4,000       | 225,939  | 3,000            | 225,969  | -3,00     | 1038+0.000 | 226,059      | 224,707      | 1,352         |                  | 225,969  | -3,00        | 4,000      | 225,939  |            |          |            |
|               |          | 4,000       | 226,110  | 3,000            | 226,140  | -3,00     | 1039+0.000 | 226,230      | 224,779      | 1,451         |                  | 226,140  | -3,00        | 4,000      | 226,110  |            |          |            |
|               |          | 4,000       | 226,281  | 3,000            | 226,311  | -3,00     | 1040+0.000 | 226,401      | 225,041      | 1,360         |                  | 226,311  | -3,00        | 4,000      | 226,281  |            |          |            |
|               |          | 4,000       | 226,452  | 3,000            | 226,482  | -3,00     | 1041+0.000 | 226,572      | 225,178      | 1,394         |                  | 226,482  | -3,00        | 4,000      | 226,452  |            |          |            |
|               |          | 4,000       | 226,631  | 3,000            | 226,661  | -3,00     | 1042+0.000 | 226,751      | 225,229      | 1,522         |                  | 226,661  | -3,00        | 4,000      | 226,631  |            |          |            |
|               |          | 4,000       | 226,825  | 3,000            | 226,855  | -3,00     | 1043+0.000 | 226,945      | 225,750      | 1,195         |                  | 226,855  | -3,00        | 4,000      | 226,825  |            |          |            |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |             |          |                  |          |           |            |              |              |               |       | Eixo |  |           |             | Lado Direito |            |          |           |            |          |
|---------------|----------|-------------|----------|------------------|----------|-----------|------------|--------------|--------------|---------------|-------|------|--|-----------|-------------|--------------|------------|----------|-----------|------------|----------|
| Offset        |          | Acostamento |          | Bordo Semi-Pista |          |           | Estaca     | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo |      |  | Incl. (%) | Acostamento |              | Bordo      |          | Incl. (%) | Offset     |          |
|               |          |             |          |                  |          |           |            |              |              |               |       |      |  |           |             |              |            |          |           |            |          |
| Afast. (m)    | Cota (m) | Afast. (m)  | Cota (m) | Afast. (m)       | Cota (m) | Incl. (%) |            |              |              |               |       |      |  |           |             |              | Afast. (m) | Cota (m) |           | Afast. (m) | Cota (m) |
|               |          | 4,000       | 227,034  | 3,000            | 227,064  | -3,00     | 1044+0.000 | 227,154      | 226,077      | 1,077         |       |      |  | -3,00     | 4,000       | 227,034      |            |          | -3,00     |            |          |
|               |          | 4,000       | 227,259  | 3,000            | 227,289  | -3,00     | 1045+0.000 | 227,379      | 226,242      | 1,137         |       |      |  | -3,00     | 4,000       | 227,259      |            |          | -3,00     |            |          |
|               |          | 4,000       | 227,500  | 3,000            | 227,530  | -3,00     | 1046+0.000 | 227,620      | 226,541      | 1,079         |       |      |  | -3,00     | 4,000       | 227,500      |            |          | -3,00     |            |          |
|               |          | 4,000       | 227,755  | 3,000            | 227,785  | -3,00     | 1047+0.000 | 227,875      | 227,084      | 0,791         |       |      |  | -3,00     | 4,000       | 227,755      |            |          | -3,00     |            |          |
|               |          | 4,000       | 228,027  | 3,000            | 228,057  | -3,00     | 1048+0.000 | 228,147      | 227,200      | 0,947         |       |      |  | -3,00     | 4,000       | 228,027      |            |          | -3,00     |            |          |
|               |          | 4,000       | 228,313  | 3,000            | 228,343  | -3,00     | 1049+0.000 | 228,433      | 227,759      | 0,674         |       |      |  | -3,00     | 4,000       | 228,313      |            |          | -3,00     |            |          |
|               |          | 4,000       | 228,615  | 3,000            | 228,645  | -3,00     | 1050+0.000 | 228,735      | 227,718      | 1,017         |       |      |  | -3,00     | 4,000       | 228,615      |            |          | -3,00     |            |          |
|               |          | 4,000       | 228,933  | 3,000            | 228,963  | -3,00     | 1051+0.000 | 229,053      | 228,339      | 0,714         |       |      |  | -3,00     | 4,000       | 228,933      |            |          | -3,00     |            |          |
|               |          | 4,000       | 229,258  | 3,000            | 229,288  | -3,00     | 1052+0.000 | 229,378      | 228,835      | 0,543         |       |      |  | -3,00     | 4,000       | 229,258      |            |          | -3,00     |            |          |
|               |          | 4,000       | 229,583  | 3,000            | 229,613  | -3,00     | 1053+0.000 | 229,703      | 229,389      | 0,314         |       |      |  | -3,00     | 4,000       | 229,583      |            |          | -3,00     |            |          |
|               |          | 4,000       | 229,944  | 3,000            | 229,974  | -3,00     | 1054+0.000 | 230,064      | 229,740      | 0,324         |       |      |  | -3,00     | 4,000       | 229,944      |            |          | -3,00     |            |          |
|               |          | 4,000       | 230,374  | 3,000            | 230,404  | -3,00     | 1055+0.000 | 230,494      | 229,971      | 0,523         |       |      |  | -3,00     | 4,000       | 230,374      |            |          | -3,00     |            |          |
|               |          | 4,000       | 230,874  | 3,000            | 230,904  | -3,00     | 1056+0.000 | 230,994      | 230,534      | 0,460         |       |      |  | -3,00     | 4,000       | 230,874      |            |          | -3,00     |            |          |
|               |          | 4,000       | 231,444  | 3,000            | 231,474  | -3,00     | 1057+0.000 | 231,564      | 231,281      | 0,283         |       |      |  | -3,00     | 4,000       | 231,444      |            |          | -3,00     |            |          |
|               |          | 4,000       | 232,084  | 3,000            | 232,114  | -3,00     | 1058+0.000 | 232,204      | 231,983      | 0,221         |       |      |  | -3,00     | 4,000       | 232,084      |            |          | -3,00     |            |          |
|               |          | 4,000       | 232,814  | 3,000            | 232,844  | -3,00     | 1059+0.000 | 232,934      | 232,920      | 0,014         |       |      |  | -3,00     | 4,000       | 232,814      |            |          | -3,00     |            |          |
|               |          | 4,000       | 233,653  | 3,000            | 233,683  | -3,00     | 1060+0.000 | 233,773      | 234,005      | -0,232        |       |      |  | -3,00     | 4,000       | 233,653      |            |          | -3,00     |            |          |
|               |          | 4,000       | 234,601  | 3,000            | 234,631  | -3,00     | 1061+0.000 | 234,721      | 234,882      | -0,161        |       |      |  | -3,00     | 4,000       | 234,601      |            |          | -3,00     |            |          |
|               |          | 4,000       | 235,658  | 3,000            | 235,688  | -3,00     | 1062+0.000 | 235,778      | 235,490      | 0,288         |       |      |  | -3,00     | 4,000       | 235,658      |            |          | -3,00     |            |          |
|               |          | 4,000       | 236,771  | 3,000            | 236,801  | -3,00     | 1063+0.000 | 236,891      | 236,006      | 0,885         |       |      |  | -3,00     | 4,000       | 236,771      |            |          | -3,00     |            |          |
|               |          | 4,000       | 237,883  | 3,000            | 237,913  | -3,00     | 1064+0.000 | 238,003      | 237,361      | 0,642         |       |      |  | -3,00     | 4,000       | 237,883      |            |          | -3,00     |            |          |
|               |          | 4,000       | 238,995  | 3,000            | 239,025  | -3,00     | 1065+0.000 | 239,115      | 238,775      | 0,340         |       |      |  | -3,00     | 4,000       | 238,995      |            |          | -3,00     |            |          |
|               |          | 4,000       | 240,107  | 3,000            | 240,137  | -3,00     | 1066+0.000 | 240,227      | 240,245      | -0,018        |       |      |  | -3,00     | 4,000       | 240,107      |            |          | -3,00     |            |          |
|               |          | 4,000       | 241,220  | 3,000            | 241,250  | -3,00     | 1067+0.000 | 241,340      | 241,193      | 0,147         |       |      |  | -3,00     | 4,000       | 241,220      |            |          | -3,00     |            |          |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |            |                  |           |             |         |              | Eixo         |               |                  |           | Lado Direito |                   |            |          |  |  |
|---------------|----------|-------------------|----------|------------|------------------|-----------|-------------|---------|--------------|--------------|---------------|------------------|-----------|--------------|-------------------|------------|----------|--|--|
| Offset        |          | Bordo Acostamento |          |            | Bordo Semi-Pista |           |             | Estaca  | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |           |              | Bordo Acostamento |            | Offset   |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m) | Cota (m)         | Incl. (%) | Afast. (m)  |         |              |              |               | Cota (m)         | Incl. (%) | Afast. (m)   | Cota (m)          | Afast. (m) | Cota (m) |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 242,332  | 3,000      | 242,362          | -3,00     | 1068+0.000  | 242,452 | 241,902      | 0,550        | 3,000         | 242,362          | -3,00     | 4,000        | 242,332           |            |          |  |  |
|               |          | 4,000             | 243,444  | 3,000      | 243,474          | -3,00     | 1069+0.000  | 243,564 | 242,822      | 0,742        | 3,000         | 243,474          | -3,00     | 4,000        | 243,444           |            |          |  |  |
|               |          | 4,000             | 244,111  | 3,000      | 244,141          | -3,00     | 1069+12.000 | 244,231 | 244,211      | 0,020        | 3,000         | 244,141          | -3,00     | 4,000        | 244,111           |            |          |  |  |
|               |          | 4,000             | 244,543  | 3,000      | 244,573          | -3,00     | 1070+0.000  | 244,663 | 244,820      | -0,157       | 3,000         | 244,573          | -3,00     | 4,000        | 244,543           |            |          |  |  |
|               |          | 4,000             | 245,504  | 3,000      | 245,534          | -3,00     | 1071+0.000  | 245,624 | 246,360      | -0,736       | 3,000         | 245,534          | -3,00     | 4,000        | 245,504           |            |          |  |  |
|               |          | 4,000             | 246,298  | 3,000      | 246,328          | -3,00     | 1072+0.000  | 246,418 | 248,053      | -1,635       | 3,000         | 246,328          | -3,00     | 4,000        | 246,298           |            |          |  |  |
|               |          | 4,000             | 246,924  | 3,000      | 246,954          | -3,00     | 1073+0.000  | 247,044 | 250,958      | -3,914       | 3,000         | 246,954          | -3,00     | 4,000        | 246,924           |            |          |  |  |
|               |          | 4,000             | 247,383  | 3,000      | 247,413          | -3,00     | 1074+0.000  | 247,503 | 253,297      | -5,794       | 3,000         | 247,413          | -3,00     | 4,000        | 247,383           |            |          |  |  |
|               |          | 4,000             | 247,674  | 3,000      | 247,704          | -3,00     | 1075+0.000  | 247,794 | 254,610      | -6,816       | 3,000         | 247,704          | -3,00     | 4,000        | 247,674           |            |          |  |  |
|               |          | 4,000             | 247,688  | 3,000      | 247,718          | -3,00     | 1075+1.421  | 247,808 | 254,671      | -6,863       | 3,000         | 247,718          | -3,00     | 4,000        | 247,688           |            |          |  |  |
|               |          | 4,796             | 247,773  | 3,796      | 247,803          | -3,00     | 1076+0.000  | 247,917 | 255,139      | -7,222       | 3,796         | 247,803          | -3,00     | 4,796        | 247,773           |            |          |  |  |
|               |          | 4,999             | 247,772  | 3,999      | 247,802          | -3,00     | 1076+4.726  | 247,922 | 254,923      | -7,001       | 3,999         | 247,802          | -3,00     | 4,999        | 247,772           |            |          |  |  |
|               |          | 5,653             | 247,703  | 4,653      | 247,733          | -3,00     | 1077+0.000  | 247,873 | 254,087      | -6,214       | 4,653         | 247,733          | -3,00     | 5,653        | 247,703           |            |          |  |  |
|               |          | 6,511             | 247,466  | 5,511      | 247,496          | -3,00     | 1078+0.000  | 247,661 | 252,246      | -4,585       | 5,511         | 247,496          | -3,00     | 6,511        | 247,466           |            |          |  |  |
|               |          | 7,000             | 247,255  | 6,000      | 247,285          | -3,00     | 1078+11.421 | 247,465 | 251,206      | -3,741       | 6,000         | 247,285          | -3,00     | 7,000        | 247,255           |            |          |  |  |
|               |          | 7,000             | 247,072  | 6,000      | 247,102          | -3,00     | 1079+0.000  | 247,282 | 250,349      | -3,067       | 6,000         | 247,102          | -3,00     | 7,000        | 247,072           |            |          |  |  |
|               |          | 7,000             | 246,525  | 6,000      | 246,555          | -3,00     | 1080+0.000  | 246,735 | 248,212      | -1,477       | 6,000         | 246,555          | -3,00     | 7,000        | 246,525           |            |          |  |  |
|               |          | 7,000             | 246,138  | 6,000      | 246,168          | -3,00     | 1080+11.406 | 246,348 | 246,962      | -0,614       | 6,000         | 246,168          | -3,00     | 7,000        | 246,138           |            |          |  |  |
|               |          | 6,632             | 245,821  | 5,632      | 245,851          | -3,00     | 1081+0.000  | 246,020 | 246,330      | -0,310       | 5,632         | 245,851          | -3,00     | 6,632        | 245,821           |            |          |  |  |
|               |          | 6,117             | 245,327  | 5,117      | 245,357          | -3,00     | 1081+12.000 | 245,511 | 245,366      | 0,145        | 5,118         | 245,357          | -3,00     | 6,118        | 245,327           |            |          |  |  |
|               |          | 5,775             | 244,979  | 4,775      | 245,009          | -3,00     | 1082+0.000  | 245,152 | 244,741      | 0,411        | 4,775         | 245,009          | -3,00     | 5,775        | 244,979           |            |          |  |  |
|               |          | 5,695             | 244,898  | 4,695      | 244,928          | -3,00     | 1082+1.847  | 245,069 | 244,597      | 0,472        | 4,696         | 244,928          | -3,00     | 5,696        | 244,898           |            |          |  |  |
|               |          | 5,475             | 244,673  | 4,475      | 244,703          | -3,00     | 1082+6.990  | 244,837 | 244,364      | 0,473        | 4,475         | 244,703          | -3,00     | 5,475        | 244,673           |            |          |  |  |
|               |          | 5,238             | 244,431  | 4,238      | 244,461          | -3,00     | 1082+12.528 | 244,588 | 244,231      | 0,357        | 4,238         | 244,461          | -3,00     | 5,238        | 244,431           |            |          |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |            |                   |       |                  |          |           |        |              |              | Eixo          |                  |          | Lado Direito |                   |          |            |  |  |
|---------------|------------|-------------------|-------|------------------|----------|-----------|--------|--------------|--------------|---------------|------------------|----------|--------------|-------------------|----------|------------|--|--|
| Offset        |            | Bordo Acostamento |       | Bordo Semi-Pista |          |           | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          |              | Bordo Acostamento |          | Offset     |  |  |
|               |            |                   |       | Afast. (m)       | Cota (m) | Incl. (%) |        |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)    | Afast. (m)        | Cota (m) | Afast. (m) |  |  |
|               | Afast. (m) | Cota (m)          | 4,917 | 244,105          | 3,917    | 244,135   | -3,00  | 1083+0.000   | 244,253      | 243,735       | 0,518            | 3,918    | 244,135      | -3,00             | 4,918    | 244,105    |  |  |
|               |            |                   | 4,644 | 243,827          | 3,644    | 243,857   | -3,00  | 1083+6.374   | 243,966      | 243,301       | 0,665            | 3,645    | 243,857      | -3,00             | 4,645    | 243,827    |  |  |
|               |            |                   | 4,644 | 243,827          | 3,644    | 243,857   | -3,00  | 1083+6.378   | 243,966      | 243,301       | 0,665            | 3,644    | 243,857      | -3,00             | 4,644    | 243,827    |  |  |
|               |            |                   | 4,390 | 243,567          | 3,390    | 243,597   | -3,00  | 1083+12.308  | 243,699      | 242,999       | 0,700            | 3,390    | 243,597      | -3,00             | 4,390    | 243,567    |  |  |
|               |            |                   | 4,060 | 243,232          | 3,060    | 243,262   | -3,00  | 1084+0.000   | 243,354      | 242,643       | 0,711            | 3,061    | 243,262      | -3,00             | 4,061    | 243,232    |  |  |
|               |            |                   | 4,000 | 243,171          | 3,000    | 243,201   | -3,00  | 1084+1.406   | 243,291      | 242,578       | 0,713            | 3,000    | 243,201      | -3,00             | 4,000    | 243,171    |  |  |
|               |            |                   | 4,000 | 242,354          | 3,000    | 242,384   | -3,00  | 1085+0.000   | 242,474      | 241,530       | 0,944            | 3,000    | 242,384      | -3,00             | 4,000    | 242,354    |  |  |
|               |            |                   | 4,000 | 241,512          | 3,000    | 241,542   | -3,00  | 1086+0.000   | 241,632      | 240,732       | 0,900            | 3,000    | 241,542      | -3,00             | 4,000    | 241,512    |  |  |
|               |            |                   | 4,000 | 241,102          | 3,000    | 241,132   | -3,00  | 1086+10.084  | 241,222      | 240,298       | 0,924            | 3,000    | 241,132      | -3,00             | 4,000    | 241,102    |  |  |
|               |            |                   | 4,000 | 240,709          | 3,000    | 240,739   | -3,00  | 1087+0.000   | 240,829      | 239,852       | 0,977            | 3,000    | 240,739      | -3,00             | 4,000    | 240,709    |  |  |
|               |            |                   | 4,000 | 240,327          | 3,000    | 240,357   | -3,00  | 1087+9.864   | 240,447      | 239,602       | 0,845            | 3,000    | 240,357      | -3,00             | 4,000    | 240,327    |  |  |
|               |            |                   | 4,000 | 240,326          | 3,000    | 240,356   | -3,00  | 1087+9.867   | 240,446      | 239,601       | 0,845            | 3,000    | 240,356      | -3,00             | 4,000    | 240,326    |  |  |
|               |            |                   | 4,000 | 239,943          | 3,000    | 239,973   | -3,00  | 1088+0.000   | 240,063      | 239,315       | 0,748            | 3,000    | 239,973      | -3,00             | 4,000    | 239,943    |  |  |
|               |            |                   | 4,000 | 239,216          | 3,000    | 239,246   | -3,00  | 1089+0.000   | 239,336      | 238,655       | 0,681            | 3,000    | 239,246      | -3,00             | 4,000    | 239,216    |  |  |
|               |            |                   | 4,000 | 238,528          | 3,000    | 238,558   | -3,00  | 1090+0.000   | 238,648      | 238,116       | 0,532            | 3,000    | 238,558      | -3,00             | 4,000    | 238,528    |  |  |
|               |            |                   | 4,000 | 237,930          | 3,000    | 237,960   | -3,00  | 1090+18.321  | 238,050      | 237,541       | 0,509            | 3,000    | 237,960      | -3,00             | 4,000    | 237,930    |  |  |
|               |            |                   | 4,000 | 237,877          | 3,000    | 237,907   | -3,00  | 1091+0.000   | 237,997      | 237,459       | 0,538            | 3,000    | 237,907      | -3,00             | 4,000    | 237,877    |  |  |
|               |            |                   | 4,000 | 237,245          | 3,000    | 237,275   | -3,00  | 1092+0.000   | 237,365      | 236,762       | 0,603            | 3,000    | 237,275      | -3,00             | 4,000    | 237,245    |  |  |
|               |            |                   | 4,000 | 237,088          | 3,000    | 237,118   | -3,00  | 1092+5.000   | 237,208      | 236,608       | 0,600            | 3,000    | 237,118      | -3,00             | 4,000    | 237,088    |  |  |
|               |            |                   | 4,000 | 236,637          | 3,000    | 236,667   | -3,00  | 1093+0.000   | 236,757      | 236,127       | 0,630            | 3,000    | 236,667      | -3,00             | 4,000    | 236,637    |  |  |
|               |            |                   | 4,000 | 236,108          | 3,000    | 236,138   | -3,00  | 1094+0.000   | 236,228      | 235,460       | 0,768            | 3,000    | 236,138      | -3,00             | 4,000    | 236,108    |  |  |
|               |            |                   | 4,000 | 235,662          | 3,000    | 235,692   | -3,00  | 1095+0.000   | 235,782      | 234,885       | 0,897            | 3,000    | 235,692      | -3,00             | 4,000    | 235,662    |  |  |
|               |            |                   | 4,000 | 235,297          | 3,000    | 235,327   | -3,00  | 1096+0.000   | 235,417      | 234,310       | 1,107            | 3,000    | 235,327      | -3,00             | 4,000    | 235,297    |  |  |
|               |            |                   | 4,000 | 235,015          | 3,000    | 235,045   | -3,00  | 1097+0.000   | 235,135      | 233,867       | 1,268            | 3,000    | 235,045      | -3,00             | 4,000    | 235,015    |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |             |              |              | Eixo          |                  |          | Lado Direito      |            |          |            |          |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|-------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |             |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) |  |
| Afast. (m)    | Cota (m) | 4,000             | 234,815  | 3,000            | 234,845  | -3,00    | 1098+0.000  | 234,935      | 233,406      | 1,529         | 3,000            | 234,845  | -3,00             | 4,000      | 234,815  |            |          |  |
|               |          | 4,000             | 234,696  | 3,000            | 234,726  | -3,00    | 1099+0.000  | 234,816      | 233,321      | 1,495         | 3,000            | 234,726  | -3,00             | 4,000      | 234,696  |            |          |  |
|               |          | 4,000             | 234,660  | 3,000            | 234,690  | -3,00    | 1099+18.734 | 234,780      | 233,212      | 1,568         | 3,000            | 234,690  | -3,00             | 4,000      | 234,660  |            |          |  |
|               |          | 4,000             | 234,661  | 3,000            | 234,691  | -3,00    | 1100+0.000  | 234,781      | 233,123      | 1,658         | 3,000            | 234,691  | -3,00             | 4,000      | 234,661  |            |          |  |
|               |          | 4,000             | 234,707  | 3,000            | 234,737  | -3,00    | 1101+0.000  | 234,827      | 233,446      | 1,381         | 3,000            | 234,737  | -3,00             | 4,000      | 234,707  |            |          |  |
|               |          | 4,000             | 234,835  | 3,000            | 234,865  | -3,00    | 1102+0.000  | 234,955      | 233,420      | 1,535         | 3,000            | 234,865  | -3,00             | 4,000      | 234,835  |            |          |  |
|               |          | 4,000             | 235,046  | 3,000            | 235,076  | -3,00    | 1103+0.000  | 235,166      | 233,590      | 1,576         | 3,000            | 235,076  | -3,00             | 4,000      | 235,046  |            |          |  |
|               |          | 4,000             | 235,339  | 3,000            | 235,369  | -3,00    | 1104+0.000  | 235,459      | 234,058      | 1,401         | 3,000            | 235,369  | -3,00             | 4,000      | 235,339  |            |          |  |
|               |          | 4,000             | 235,425  | 3,000            | 235,455  | -3,00    | 1104+5.000  | 235,545      | 234,108      | 1,437         | 3,000            | 235,455  | -3,00             | 4,000      | 235,425  |            |          |  |
|               |          | 4,000             | 235,690  | 3,000            | 235,720  | -3,00    | 1105+0.000  | 235,810      | 234,416      | 1,394         | 3,000            | 235,720  | -3,00             | 4,000      | 235,690  |            |          |  |
|               |          | 4,000             | 236,045  | 3,000            | 236,075  | -3,00    | 1106+0.000  | 236,165      | 234,813      | 1,352         | 3,000            | 236,075  | -3,00             | 4,000      | 236,045  |            |          |  |
|               |          | 4,000             | 236,399  | 3,000            | 236,429  | -3,00    | 1107+0.000  | 236,519      | 235,654      | 0,865         | 3,000            | 236,429  | -3,00             | 4,000      | 236,399  |            |          |  |
|               |          | 4,000             | 236,754  | 3,000            | 236,784  | -3,00    | 1108+0.000  | 236,874      | 236,240      | 0,634         | 3,000            | 236,784  | -3,00             | 4,000      | 236,754  |            |          |  |
|               |          | 4,000             | 237,108  | 3,000            | 237,138  | -3,00    | 1109+0.000  | 237,228      | 236,555      | 0,673         | 3,000            | 237,138  | -3,00             | 4,000      | 237,108  |            |          |  |
|               |          | 4,000             | 237,427  | 3,000            | 237,457  | -3,00    | 1109+18.000 | 237,547      | 236,914      | 0,633         | 3,000            | 237,457  | -3,00             | 4,000      | 237,427  |            |          |  |
|               |          | 4,000             | 237,462  | 3,000            | 237,492  | -3,00    | 1110+0.000  | 237,582      | 236,934      | 0,648         | 3,000            | 237,492  | -3,00             | 4,000      | 237,462  |            |          |  |
|               |          | 4,000             | 237,800  | 3,000            | 237,830  | -3,00    | 1111+0.000  | 237,920      | 237,258      | 0,662         | 3,000            | 237,830  | -3,00             | 4,000      | 237,800  |            |          |  |
|               |          | 4,000             | 238,111  | 3,000            | 238,141  | -3,00    | 1112+0.000  | 238,231      | 237,608      | 0,623         | 3,000            | 238,141  | -3,00             | 4,000      | 238,111  |            |          |  |
|               |          | 4,000             | 238,393  | 3,000            | 238,423  | -3,00    | 1113+0.000  | 238,513      | 238,006      | 0,507         | 3,000            | 238,423  | -3,00             | 4,000      | 238,393  |            |          |  |
|               |          | 4,000             | 238,649  | 3,000            | 238,679  | -3,00    | 1114+0.000  | 238,769      | 238,270      | 0,499         | 3,000            | 238,679  | -3,00             | 4,000      | 238,649  |            |          |  |
|               |          | 4,000             | 238,877  | 3,000            | 238,907  | -3,00    | 1115+0.000  | 238,997      | 238,542      | 0,455         | 3,000            | 238,907  | -3,00             | 4,000      | 238,877  |            |          |  |
|               |          | 4,000             | 239,078  | 3,000            | 239,108  | -3,00    | 1116+0.000  | 239,198      | 238,727      | 0,471         | 3,000            | 239,108  | -3,00             | 4,000      | 239,078  |            |          |  |
|               |          | 4,000             | 239,235  | 3,000            | 239,265  | -3,00    | 1116+18.000 | 239,355      | 238,887      | 0,468         | 3,000            | 239,265  | -3,00             | 4,000      | 239,235  |            |          |  |
|               |          | 4,000             | 239,251  | 3,000            | 239,281  | -3,00    | 1117+0.000  | 239,371      | 238,893      | 0,478         | 3,000            | 239,281  | -3,00             | 4,000      | 239,251  |            |          |  |



## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |             |              |              | Eixo          |                  |          |                   | Lado Direito |          |            |          |  |  |
|---------------|----------|-------------------|----------|------------------|----------|----------|-------------|--------------|--------------|---------------|------------------|----------|-------------------|--------------|----------|------------|----------|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |              | Offset   |            |          |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |             |              |              |               | Afast. (m)       | Cota (m) | Ind. (%)          | Afast. (m)   | Cota (m) | Afast. (m) | Cota (m) |  |  |
| Afast. (m)    | Cota (m) | 4,000             | 239,413  | 3,000            | 239,443  | -3,00    | 1118+0.000  | 239,533      | 238,973      | 0,560         | 3,000            | 239,443  | -3,00             | 4,000        | 239,413  |            |          |  |  |
|               |          | 4,000             | 239,575  | 3,000            | 239,605  | -3,00    | 1119+0.000  | 239,695      | 239,108      | 0,587         | 3,000            | 239,605  | -3,00             | 4,000        | 239,575  |            |          |  |  |
|               |          | 4,000             | 239,737  | 3,000            | 239,767  | -3,00    | 1120+0.000  | 239,857      | 239,159      | 0,698         | 3,000            | 239,767  | -3,00             | 4,000        | 239,737  |            |          |  |  |
|               |          | 4,000             | 239,899  | 3,000            | 239,929  | -3,00    | 1121+0.000  | 240,019      | 239,215      | 0,804         | 3,000            | 239,929  | -3,00             | 4,000        | 239,899  |            |          |  |  |
|               |          | 4,000             | 240,061  | 3,000            | 240,091  | -3,00    | 1122+0.000  | 240,181      | 238,866      | 1,315         | 3,000            | 240,091  | -3,00             | 4,000        | 240,061  |            |          |  |  |
|               |          | 4,000             | 240,224  | 3,000            | 240,254  | -3,00    | 1123+0.000  | 240,344      | 238,298      | 2,046         | 3,000            | 240,254  | -3,00             | 4,000        | 240,224  |            |          |  |  |
|               |          | 4,000             | 240,386  | 3,000            | 240,416  | -3,00    | 1124+0.000  | 240,506      | 237,697      | 2,809         | 3,000            | 240,416  | -3,00             | 4,000        | 240,386  |            |          |  |  |
|               |          | 4,000             | 240,548  | 3,000            | 240,578  | -3,00    | 1125+0.000  | 240,668      | 237,473      | 3,195         | 3,000            | 240,578  | -3,00             | 4,000        | 240,548  |            |          |  |  |
|               |          | 4,000             | 240,710  | 3,000            | 240,740  | -3,00    | 1126+0.000  | 240,830      | 237,523      | 3,307         | 3,000            | 240,740  | -3,00             | 4,000        | 240,710  |            |          |  |  |
|               |          | 4,000             | 240,872  | 3,000            | 240,902  | -3,00    | 1127+0.000  | 240,992      | 237,716      | 3,276         | 3,000            | 240,902  | -3,00             | 4,000        | 240,872  |            |          |  |  |
|               |          | 4,000             | 241,034  | 3,000            | 241,064  | -3,00    | 1128+0.000  | 241,154      | 237,950      | 3,204         | 3,000            | 241,064  | -3,00             | 4,000        | 241,034  |            |          |  |  |
|               |          | 4,000             | 241,196  | 3,000            | 241,226  | -3,00    | 1129+0.000  | 241,316      | 238,378      | 2,938         | 3,000            | 241,226  | -3,00             | 4,000        | 241,196  |            |          |  |  |
|               |          | 4,000             | 241,358  | 3,000            | 241,388  | -3,00    | 1130+0.000  | 241,478      | 238,964      | 2,514         | 3,000            | 241,388  | -3,00             | 4,000        | 241,358  |            |          |  |  |
|               |          | 4,000             | 241,423  | 3,000            | 241,453  | -3,00    | 1130+8.000  | 241,543      | 239,472      | 2,071         | 3,000            | 241,453  | -3,00             | 4,000        | 241,423  |            |          |  |  |
|               |          | 4,000             | 241,514  | 3,000            | 241,544  | -3,00    | 1131+0.000  | 241,634      | 240,159      | 1,475         | 3,000            | 241,544  | -3,00             | 4,000        | 241,514  |            |          |  |  |
|               |          | 4,000             | 241,635  | 3,000            | 241,665  | -3,00    | 1132+0.000  | 241,755      | 241,292      | 0,463         | 3,000            | 241,665  | -3,00             | 4,000        | 241,635  |            |          |  |  |
|               |          | 4,000             | 241,720  | 3,000            | 241,750  | -3,00    | 1133+0.000  | 241,840      | 242,045      | -0,205        | 3,000            | 241,750  | -3,00             | 4,000        | 241,720  |            |          |  |  |
|               |          | 4,000             | 241,768  | 3,000            | 241,798  | -3,00    | 1134+0.000  | 241,888      | 242,614      | -0,726        | 3,000            | 241,798  | -3,00             | 4,000        | 241,768  |            |          |  |  |
|               |          | 4,000             | 241,779  | 3,000            | 241,809  | -3,00    | 1134+15.859 | 241,899      | 242,717      | -0,818        | 3,000            | 241,809  | -3,00             | 4,000        | 241,779  |            |          |  |  |
|               |          | 4,000             | 241,779  | 3,000            | 241,809  | -3,00    | 1135+0.000  | 241,899      | 242,722      | -0,823        | 3,000            | 241,809  | -3,00             | 4,000        | 241,779  |            |          |  |  |
|               |          | 4,000             | 241,752  | 3,000            | 241,782  | -3,00    | 1136+0.000  | 241,872      | 242,631      | -0,759        | 3,000            | 241,782  | -3,00             | 4,000        | 241,752  |            |          |  |  |
|               |          | 4,000             | 241,689  | 3,000            | 241,719  | -3,00    | 1137+0.000  | 241,809      | 242,267      | -0,458        | 3,000            | 241,719  | -3,00             | 4,000        | 241,689  |            |          |  |  |
|               |          | 4,000             | 241,590  | 3,000            | 241,620  | -3,00    | 1138+0.000  | 241,710      | 241,811      | -0,101        | 3,000            | 241,620  | -3,00             | 4,000        | 241,590  |            |          |  |  |
|               |          | 4,000             | 241,453  | 3,000            | 241,483  | -3,00    | 1139+0.000  | 241,573      | 241,253      | 0,320         | 3,000            | 241,483  | -3,00             | 4,000        | 241,453  |            |          |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |            |                   |          |                  |          |          |             |              |              | Eixo          |                  |          |          |                   | Lado Direito |            |          |  |  |  |  |
|---------------|------------|-------------------|----------|------------------|----------|----------|-------------|--------------|--------------|---------------|------------------|----------|----------|-------------------|--------------|------------|----------|--|--|--|--|
| Offset        |            | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          |          | Bordo Acostamento |              | Offset     |          |  |  |  |  |
|               |            | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |             |              |              |               | Afast. (m)       | Cota (m) | Ind. (%) | Afast. (m)        | Cota (m)     | Afast. (m) | Cota (m) |  |  |  |  |
|               | Afast. (m) | 4,000             | 241,279  | 3,000            | 241,309  | -3,00    | 1140+0.000  | 241,399      | 240,938      | 0,461         | 3,000            | 241,309  | -3,00    | 4,000             | 241,279      |            | Cota (m) |  |  |  |  |
|               |            | 4,000             | 241,068  | 3,000            | 241,098  | -3,00    | 1141+0.000  | 241,188      | 240,570      | 0,618         | 3,000            | 241,098  | -3,00    | 4,000             | 241,068      |            |          |  |  |  |  |
|               |            | 4,000             | 240,821  | 3,000            | 240,851  | -3,00    | 1142+0.000  | 240,941      | 240,168      | 0,773         | 3,000            | 240,851  | -3,00    | 4,000             | 240,821      |            |          |  |  |  |  |
|               |            | 4,000             | 240,536  | 3,000            | 240,566  | -3,00    | 1143+0.000  | 240,656      | 239,735      | 0,921         | 3,000            | 240,566  | -3,00    | 4,000             | 240,536      |            |          |  |  |  |  |
|               |            | 4,000             | 240,215  | 3,000            | 240,245  | -3,00    | 1144+0.000  | 240,335      | 239,330      | 1,005         | 3,000            | 240,245  | -3,00    | 4,000             | 240,215      |            |          |  |  |  |  |
|               |            | 4,000             | 239,857  | 3,000            | 239,887  | -3,00    | 1145+0.000  | 239,977      | 238,900      | 1,077         | 3,000            | 239,887  | -3,00    | 4,000             | 239,857      |            |          |  |  |  |  |
|               |            | 4,000             | 239,462  | 3,000            | 239,492  | -3,00    | 1146+0.000  | 239,582      | 238,537      | 1,045         | 3,000            | 239,492  | -3,00    | 4,000             | 239,462      |            |          |  |  |  |  |
|               |            | 4,000             | 239,030  | 3,000            | 239,060  | -3,00    | 1147+0.000  | 239,150      | 238,442      | 0,708         | 3,000            | 239,060  | -3,00    | 4,000             | 239,030      |            |          |  |  |  |  |
|               |            | 4,000             | 238,561  | 3,000            | 238,591  | -3,00    | 1148+0.000  | 238,681      | 238,310      | 0,371         | 3,000            | 238,591  | -3,00    | 4,000             | 238,561      |            |          |  |  |  |  |
|               |            | 4,000             | 238,363  | 3,000            | 238,393  | -3,00    | 1148+8.000  | 238,483      | 238,187      | 0,296         | 3,000            | 238,393  | -3,00    | 4,000             | 238,363      |            |          |  |  |  |  |
|               |            | 4,000             | 238,062  | 3,000            | 238,092  | -3,00    | 1149+0.000  | 238,182      | 237,892      | 0,290         | 3,000            | 238,092  | -3,00    | 4,000             | 238,062      |            |          |  |  |  |  |
|               |            | 4,000             | 237,559  | 3,000            | 237,589  | -3,00    | 1150+0.000  | 237,679      | 236,862      | 0,817         | 3,000            | 237,589  | -3,00    | 4,000             | 237,559      |            |          |  |  |  |  |
|               |            | 4,000             | 237,057  | 3,000            | 237,087  | -3,00    | 1151+0.000  | 237,177      | 235,597      | 1,580         | 3,000            | 237,087  | -3,00    | 4,000             | 237,057      |            |          |  |  |  |  |
|               |            | 4,000             | 236,555  | 3,000            | 236,585  | -3,00    | 1152+0.000  | 236,675      | 233,816      | 2,859         | 3,000            | 236,585  | -3,00    | 4,000             | 236,555      |            |          |  |  |  |  |
|               |            | 4,000             | 236,053  | 3,000            | 236,083  | -3,00    | 1153+0.000  | 236,173      | 232,726      | 3,447         | 3,000            | 236,083  | -3,00    | 4,000             | 236,053      |            |          |  |  |  |  |
|               |            | 4,000             | 235,551  | 3,000            | 235,581  | -3,00    | 1154+0.000  | 235,671      | 232,530      | 3,141         | 3,000            | 235,581  | -3,00    | 4,000             | 235,551      |            |          |  |  |  |  |
|               |            | 4,000             | 235,048  | 3,000            | 235,078  | -3,00    | 1155+0.000  | 235,168      | 232,998      | 2,170         | 3,000            | 235,078  | -3,00    | 4,000             | 235,048      |            |          |  |  |  |  |
|               |            | 4,000             | 234,597  | 3,000            | 234,627  | -3,00    | 1155+18.000 | 234,717      | 234,347      | 0,370         | 3,000            | 234,627  | -3,00    | 4,000             | 234,597      |            |          |  |  |  |  |
|               |            | 4,000             | 234,546  | 3,000            | 234,576  | -3,00    | 1156+0.000  | 234,666      | 234,496      | 0,170         | 3,000            | 234,576  | -3,00    | 4,000             | 234,546      |            |          |  |  |  |  |
|               |            | 4,000             | 234,010  | 3,000            | 234,040  | -3,00    | 1157+0.000  | 234,130      | 235,210      | -1,080        | 3,000            | 234,040  | -3,00    | 4,000             | 234,010      |            |          |  |  |  |  |
|               |            | 4,000             | 233,417  | 3,000            | 233,447  | -3,00    | 1158+0.000  | 233,537      | 234,837      | -1,300        | 3,000            | 233,447  | -3,00    | 4,000             | 233,417      |            |          |  |  |  |  |
|               |            | 4,000             | 232,767  | 3,000            | 232,797  | -3,00    | 1159+0.000  | 232,887      | 234,368      | -1,481        | 3,000            | 232,797  | -3,00    | 4,000             | 232,767      |            |          |  |  |  |  |
|               |            | 4,000             | 232,060  | 3,000            | 232,090  | -3,00    | 1160+0.000  | 232,180      | 233,525      | -1,345        | 3,000            | 232,090  | -3,00    | 4,000             | 232,060      |            |          |  |  |  |  |
|               |            | 4,000             | 231,296  | 3,000            | 231,326  | -3,00    | 1161+0.000  | 231,416      | 232,549      | -1,133        | 3,000            | 231,326  | -3,00    | 4,000             | 231,296      |            |          |  |  |  |  |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |          |             |              |              | Eixo          |                  |          | Lado Direito      |            |          |            |          |            |
|---------------|----------|-------------------|----------|------------------|----------|----------|-------------|--------------|--------------|---------------|------------------|----------|-------------------|------------|----------|------------|----------|------------|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          |          | Estaca      | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |          | Bordo Acostamento |            | Offset   |            |          |            |
| Afast. (m)    | Cota (m) | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) | Ind. (%) |             |              |              |               | Afast. (m)       | Cota (m) | Incl. (%)         | Afast. (m) | Cota (m) | Afast. (m) | Cota (m) | Afast. (m) |
|               |          | 4,000             | 230,561  | 3,000            | 230,591  | -3,00    | 1161+18,000 | 230,681      | 231,417      | -0,736        | 3,000            | 230,591  | -3,00             | 4,000      | 230,561  |            |          |            |
|               |          | 4,000             | 230,476  | 3,000            | 230,506  | -3,00    | 1162+0,000  | 230,596      | 231,272      | -0,676        | 3,000            | 230,506  | -3,00             | 4,000      | 230,476  |            |          |            |
|               |          | 4,000             | 230,392  | 3,000            | 230,422  | -3,00    | 1162+2,000  | 230,512      | 231,127      | -0,615        | 3,000            | 230,422  | -3,00             | 4,000      | 230,392  |            |          |            |
|               |          | 4,000             | 229,715  | 3,000            | 229,745  | -3,00    | 1163+0,000  | 229,835      | 229,523      | 0,312         | 3,000            | 229,745  | -3,00             | 4,000      | 229,715  |            |          |            |
|               |          | 4,000             | 229,190  | 3,000            | 229,220  | -3,00    | 1163+18,416 | 229,310      | 227,991      | 1,319         | 3,000            | 229,220  | -3,00             | 4,000      | 229,190  |            |          |            |
|               |          | 4,068             | 229,151  | 3,068            | 229,181  | -3,00    | 1164+0,000  | 229,273      | 227,868      | 1,405         | 3,068            | 229,181  | -3,00             | 4,068      | 229,151  |            |          |            |
|               |          | 4,925             | 228,765  | 3,925            | 228,795  | -3,00    | 1165+0,000  | 228,913      | 226,704      | 2,209         | 3,925            | 228,795  | -3,00             | 4,925      | 228,765  |            |          |            |
|               |          | 5,782             | 228,580  | 4,782            | 228,610  | -3,00    | 1166+0,000  | 228,753      | 225,082      | 3,671         | 4,782            | 228,610  | -3,00             | 5,782      | 228,580  |            |          |            |
|               |          | 6,033             | 228,564  | 5,033            | 228,594  | -3,00    | 1166+5,845  | 228,745      | 226,095      | 2,650         | 5,033            | 228,594  | -3,00             | 6,033      | 228,564  |            |          |            |
|               |          | 6,639             | 228,596  | 5,639            | 228,626  | -3,00    | 1167+0,000  | 228,795      | 227,057      | 1,738         | 5,639            | 228,626  | -3,00             | 6,639      | 228,596  |            |          |            |
|               |          | 7,000             | 228,663  | 6,000            | 228,693  | -3,00    | 1167+8,416  | 228,873      | 227,583      | 1,290         | 6,000            | 228,693  | -3,00             | 7,000      | 228,663  |            |          |            |
|               |          | 7,000             | 228,828  | 6,000            | 228,858  | -3,00    | 1168+0,000  | 229,038      | 228,321      | 0,717         | 6,000            | 228,858  | -3,00             | 7,000      | 228,828  |            |          |            |
|               |          | 7,000             | 228,863  | 6,000            | 228,893  | -3,00    | 1168+2,000  | 229,073      | 228,437      | 0,636         | 6,000            | 228,893  | -3,00             | 7,000      | 228,863  |            |          |            |
|               |          | 7,000             | 228,900  | 6,000            | 228,930  | -3,00    | 1168+4,000  | 229,110      | 228,553      | 0,557         | 6,000            | 228,930  | -3,00             | 7,000      | 228,900  |            |          |            |
|               |          | 7,000             | 229,146  | 6,000            | 229,176  | -3,00    | 1169+0,000  | 229,356      | 229,198      | 0,158         | 6,000            | 229,176  | -3,00             | 7,000      | 229,146  |            |          |            |
|               |          | 7,000             | 229,240  | 6,000            | 229,270  | -3,00    | 1169+8,450  | 229,450      | 229,691      | -0,241        | 6,000            | 229,270  | -3,00             | 7,000      | 229,240  |            |          |            |
|               |          | 6,505             | 229,344  | 5,505            | 229,374  | -3,00    | 1170+0,000  | 229,539      | 230,341      | -0,802        | 5,505            | 229,374  | -3,00             | 6,505      | 229,344  |            |          |            |
|               |          | 5,803             | 229,412  | 4,803            | 229,442  | -3,00    | 1170+16,386 | 229,586      | 230,451      | -0,865        | 4,803            | 229,442  | -3,00             | 5,803      | 229,412  |            |          |            |
|               |          | 5,648             | 229,415  | 4,648            | 229,445  | -3,00    | 1171+0,000  | 229,584      | 230,476      | -0,892        | 4,648            | 229,445  | -3,00             | 5,648      | 229,415  |            |          |            |
|               |          | 4,791             | 229,345  | 3,791            | 229,375  | -3,00    | 1172+0,000  | 229,489      | 230,204      | -0,715        | 3,791            | 229,375  | -3,00             | 4,791      | 229,345  |            |          |            |
|               |          | 4,000             | 229,159  | 3,000            | 229,189  | -3,00    | 1172+18,450 | 229,279      | 229,763      | -0,484        | 3,000            | 229,189  | -3,00             | 4,000      | 229,159  |            |          |            |
|               |          | 4,000             | 229,136  | 3,000            | 229,166  | -3,00    | 1173+0,000  | 229,256      | 229,715      | -0,459        | 3,000            | 229,166  | -3,00             | 4,000      | 229,136  |            |          |            |
|               |          | 4,000             | 228,764  | 3,000            | 228,794  | -3,00    | 1174+0,000  | 228,884      | 229,253      | -0,369        | 3,000            | 228,794  | -3,00             | 4,000      | 228,764  |            |          |            |
|               |          | 4,000             | 228,673  | 3,000            | 228,703  | -3,00    | 1174+4,000  | 228,793      | 229,112      | -0,319        | 3,000            | 228,703  | -3,00             | 4,000      | 228,673  |            |          |            |

## Nota de Serviço de Pavimento Acabado

Rodovia : RO-010 Lote 01

| Lado Esquerdo |          |                   |          |                  |          |        |              |              |               | Eixo             |            |                   | Lado Direito |            |          |  |  |  |  |
|---------------|----------|-------------------|----------|------------------|----------|--------|--------------|--------------|---------------|------------------|------------|-------------------|--------------|------------|----------|--|--|--|--|
| Offset        |          | Bordo Acostamento |          | Bordo Semi-Pista |          | Estaca | Cota Projeto | Cota Terreno | Cota Vermelha | Bordo Semi-Pista |            | Bordo Acostamento |              | Offset     |          |  |  |  |  |
|               |          | Afast. (m)        | Cota (m) | Afast. (m)       | Cota (m) |        |              |              |               | Incl. (%)        | Afast. (m) | Cota (m)          | Incl. (%)    | Afast. (m) | Cota (m) |  |  |  |  |
| Afast. (m)    | Cota (m) |                   |          |                  |          |        |              |              |               |                  |            |                   |              |            |          |  |  |  |  |
|               |          | 4,000             | 228,297  | 3,000            | 228,327  | -3,00  | 1175+0.000   | 228,417      | 0,000         |                  | 3,000      | 228,327           | -3,00        | 4,000      | 228,297  |  |  |  |  |
|               |          | 4,000             | 227,828  | 3,000            | 227,858  | -3,00  | 1176+0.000   | 227,948      | 0,336         |                  | 3,000      | 227,858           | -3,00        | 4,000      | 227,828  |  |  |  |  |
|               |          | 4,000             | 227,359  | 3,000            | 227,389  | -3,00  | 1177+0.000   | 227,479      | 0,501         |                  | 3,000      | 227,389           | -3,00        | 4,000      | 227,359  |  |  |  |  |
|               |          | 4,000             | 226,889  | 3,000            | 226,919  | -3,00  | 1178+0.000   | 227,009      | 0,685         |                  | 3,000      | 226,919           | -3,00        | 4,000      | 226,889  |  |  |  |  |
|               |          | 4,000             | 226,420  | 3,000            | 226,450  | -3,00  | 1179+0.000   | 226,540      | 0,481         |                  | 3,000      | 226,450           | -3,00        | 4,000      | 226,420  |  |  |  |  |
|               |          | 4,000             | 225,951  | 3,000            | 225,981  | -3,00  | 1180+0.000   | 226,071      | 0,712         |                  | 3,000      | 225,981           | -3,00        | 4,000      | 225,951  |  |  |  |  |
|               |          | 4,000             | 225,482  | 3,000            | 225,512  | -3,00  | 1181+0.000   | 225,602      | 0,962         |                  | 3,000      | 225,512           | -3,00        | 4,000      | 225,482  |  |  |  |  |
|               |          | 4,000             | 225,012  | 3,000            | 225,042  | -3,00  | 1182+0.000   | 225,132      | 1,160         |                  | 3,000      | 225,042           | -3,00        | 4,000      | 225,012  |  |  |  |  |
|               |          | 4,000             | 224,959  | 3,000            | 224,989  | -3,00  | 1182+2.260   | 225,079      | 1,181         |                  | 3,000      | 224,989           | -3,00        | 4,000      | 224,959  |  |  |  |  |
|               |          | 4,000             | 224,637  | 3,000            | 224,667  | -3,00  | 1182+16.000  | 224,757      | 1,380         |                  | 3,000      | 224,736           | -0,69        | 4,000      | 224,729  |  |  |  |  |
|               |          | 4,000             | 224,545  | 3,000            | 224,575  | -3,00  | 1183+0.000   | 224,665      | 1,320         |                  | 3,000      | 224,665           | -0,01        | 4,000      | 224,665  |  |  |  |  |
|               |          | 4,000             | 224,544  | 3,000            | 224,574  | -3,00  | 1183+0.072   | 224,664      | 1,320         |                  | 3,000      | 224,664           | 0,00         | 4,000      | 224,664  |  |  |  |  |
|               |          | 4,000             | 224,380  | 3,000            | 224,410  | -3,00  | 1183+7.672   | 224,500      | 1,305         |                  | 3,000      | 224,538           | 1,28         | 4,000      | 224,551  |  |  |  |  |
|               |          | 4,000             | 224,184  | 3,000            | 224,214  | -3,00  | 1183+17.885  | 224,304      | 1,342         |                  | 3,000      | 224,394           | 3,00         | 4,000      | 224,424  |  |  |  |  |
|               |          | 4,000             | 224,155  | 3,000            | 224,187  | -3,20  | 1183+19.072  | 224,283      | 1,347         |                  | 3,000      | 224,379           | 3,20         | 4,000      | 224,411  |  |  |  |  |
|               |          | 4,000             | 224,138  | 3,000            | 224,170  | -3,20  | 1184+0.000   | 224,266      | 1,351         |                  | 3,000      | 224,362           | 3,20         | 4,000      | 224,394  |  |  |  |  |
|               |          | 4,000             | 223,840  | 3,000            | 223,872  | -3,20  | 1185+0.000   | 223,968      | 1,198         |                  | 3,000      | 224,064           | 3,20         | 4,000      | 224,096  |  |  |  |  |
|               |          | 4,000             | 223,643  | 3,000            | 223,675  | -3,20  | 1186+0.000   | 223,771      | 1,491         |                  | 3,000      | 223,867           | 3,20         | 4,000      | 223,899  |  |  |  |  |
|               |          | 4,000             | 223,547  | 3,000            | 223,579  | -3,20  | 1187+0.000   | 223,675      | 1,316         |                  | 3,000      | 223,771           | 3,20         | 4,000      | 223,803  |  |  |  |  |
|               |          | 4,000             | 223,536  | 3,000            | 223,568  | -3,20  | 1187+9.158   | 223,664      | 1,376         |                  | 3,000      | 223,760           | 3,20         | 4,000      | 223,792  |  |  |  |  |
|               |          | 4,000             | 223,551  | 3,000            | 223,583  | -3,20  | 1188+0.000   | 223,679      | 1,727         |                  | 3,000      | 223,775           | 3,20         | 4,000      | 223,807  |  |  |  |  |
|               |          | 4,000             | 223,656  | 3,000            | 223,688  | -3,20  | 1189+0.000   | 223,784      | 1,841         |                  | 3,000      | 223,880           | 3,20         | 4,000      | 223,912  |  |  |  |  |
|               |          | 4,000             | 223,669  | 3,000            | 223,701  | -3,20  | 1189+1.587   | 223,797      | 1,821         |                  | 3,000      | 223,893           | 3,20         | 4,000      | 223,925  |  |  |  |  |
|               |          | 4,000             | 223,862  | 3,000            | 223,894  | -3,20  | 1190+0.000   | 223,990      | 1,670         |                  | 3,000      | 224,086           | 3,20         | 4,000      | 224,118  |  |  |  |  |

**Rodovia : RO-010      Lote 01**

[illegible]



## 6.0 - CÁLCULO DE VOLUMES

## Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca   | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|--|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| Rodovia : RO-010 Lote 01   |          |             |           |             |            |            |              |             |              |         |         |
| Entre as estacas 0+0,00 e 136+0,00, o segmento encontra-se pavimentado, Travessia Urbana de Urupá. |          |             |           |             |            |            |              |             |              |         |         |
|  |          |             |           |             |            |            |              |             |              |         |         |
| 136+0,000  |          |             |           |             | 0,000      |            |              |             |              |         |         |
| 137+0,000  |          |             | 1,341     | 1,341       | 10,000     |            |              | 13,410      | 13,410       | 13,410  |         |
| 138+0,000  |          |             | 6,862     | 8,203       | 10,000     |            |              | 82,030      | 95,440       | 82,030  |         |
| 139+0,000  |          |             | 9,646     | 17,849      | 10,000     |            |              | 165,080     | 260,520      | 152,400 | 12,680  |
| 140+0,000  |          |             | 9,684     | 27,533      | 10,000     |            |              | 193,300     | 453,820      | 152,400 | 40,900  |
| 141+0,000  |          |             | 9,752     | 37,285      | 10,000     |            |              | 194,360     | 648,180      | 152,400 | 41,960  |
| 142+0,000  | 0,150    | 0,150       | 5,537     | 42,822      | 10,000     | 1,500      | 1,500        | 152,890     | 801,070      | 152,400 | 0,490   |
| 143+0,000  | 1,355    | 1,505       | 2,709     | 45,531      | 10,000     | 15,050     | 16,550       | 82,460      | 883,530      | 82,460  |         |
| 143+12,580   | 5,078    | 6,583       | 0,060     | 45,591      | 6,290      | 40,464     | 57,014       | 17,417      | 900,947      | 17,417  |         |
| 144+0,000  | 9,395    | 15,978      |           | 45,591      | 3,710      | 53,695     | 110,708      | 0,223       | 901,170      | 0,223   |         |
| 145+0,000  | 22,460   | 38,438      |           | 45,591      | 10,000     | 318,550    | 429,258      |             | 901,170      |         |         |
| 146+0,000  | 37,271   | 75,709      |           | 45,591      | 10,000     | 597,310    | 1.026,568    |             | 901,170      |         |         |
| 147+0,000  | 38,954   | 114,663     |           | 45,591      | 10,000     | 762,250    | 1.788,818    |             | 901,170      |         |         |
| 148+0,000  | 41,143   | 155,806     |           | 45,591      | 10,000     | 800,970    | 2.589,788    |             | 901,170      |         |         |
| 149+0,000  | 32,819   | 188,625     |           | 45,591      | 10,000     | 739,620    | 3.329,408    |             | 901,170      |         |         |
| 150+0,000  | 18,223   | 206,848     |           | 45,591      | 10,000     | 510,420    | 3.839,828    |             | 901,170      |         |         |
| 151+0,000  | 15,832   | 222,680     |           | 45,591      | 10,000     | 340,550    | 4.180,378    |             | 901,170      |         |         |
| 152+0,000  | 7,267    | 229,947     | 0,114     | 45,705      | 10,000     | 230,990    | 4.411,368    | 1,140       | 902,310      | 1,140   |         |
| 153+0,000  | 1,354    | 231,301     | 0,398     | 46,103      | 10,000     | 86,210     | 4.497,578    | 5,120       | 907,430      | 5,120   |         |
| 154+0,000  | 0,311    | 231,612     | 1,133     | 47,236      | 10,000     | 16,650     | 4.514,228    | 15,310      | 922,740      | 15,310  |         |
| 155+0,000  |          | 231,612     | 3,519     | 50,755      | 10,000     | 3,110      | 4.517,338    | 46,520      | 969,260      | 46,520  |         |
| 156+0,000  |          | 231,612     | 7,658     | 58,413      | 10,000     |            | 4.517,338    | 111,770     | 1.081,030    | 111,770 |         |
| 157+0,000  |          | 231,612     | 7,957     | 66,370      | 10,000     |            | 4.517,338    | 156,150     | 1.237,180    | 152,400 | 3,750   |
| 158+0,000  |          | 231,612     | 10,765    | 77,135      | 10,000     |            | 4.517,338    | 187,220     | 1.424,400    | 152,400 | 34,820  |
| 159+0,000  |          | 231,612     | 15,174    | 92,309      | 10,000     |            | 4.517,338    | 259,390     | 1.683,790    | 152,400 | 106,990 |
| 160+0,000  |          | 231,612     | 16,337    | 108,646     | 10,000     |            | 4.517,338    | 315,110     | 1.998,900    | 152,400 | 162,710 |
| 161+0,000  |          | 231,612     | 14,977    | 123,623     | 10,000     |            | 4.517,338    | 313,140     | 2.312,040    | 152,400 | 160,740 |
| 162+0,000  | 0,823    | 232,435     | 5,810     | 129,433     | 10,000     | 8,230      | 4.525,568    | 207,870     | 2.519,910    | 152,400 | 55,470  |
| 163+0,000  | 3,775    | 236,210     | 1,930     | 131,363     | 10,000     | 45,980     | 4.571,548    | 77,400      | 2.597,310    | 77,400  |         |
| 164+0,000  | 1,428    | 237,638     | 2,053     | 133,416     | 10,000     | 52,030     | 4.623,578    | 39,830      | 2.637,140    | 39,830  |         |
| 165+0,000  | 0,650    | 238,288     | 2,503     | 135,919     | 10,000     | 20,780     | 4.644,358    | 45,560      | 2.682,700    | 45,560  |         |
| 165+2,772  | 0,554    | 238,842     | 2,267     | 138,186     | 1,386      | 1,669      | 4.646,027    | 6,611       | 2.689,311    | 6,611   |         |
| 166+0,000  | 0,740    | 239,582     | 1,823     | 140,009     | 8,614      | 11,147     | 4.657,174    | 35,231      | 2.724,542    | 35,231  |         |
| 167+0,000  | 2,918    | 242,500     | 0,775     | 140,784     | 10,000     | 36,580     | 4.693,754    | 25,980      | 2.750,522    | 25,980  |         |
| 168+0,000  | 1,229    | 243,729     | 1,656     | 142,440     | 10,000     | 41,470     | 4.735,224    | 24,310      | 2.774,832    | 24,310  |         |
| 169+0,000  |          | 243,729     | 5,598     | 148,038     | 10,000     | 12,290     | 4.747,514    | 72,540      | 2.847,372    | 72,540  |         |
| 170+0,000  |          | 243,729     | 8,696     | 156,734     | 10,000     |            | 4.747,514    | 142,940     | 2.990,312    | 142,940 |         |
| 171+0,000  |          | 243,729     | 12,461    | 169,195     | 10,000     |            | 4.747,514    | 211,570     | 3.201,882    | 152,400 | 59,170  |
| 172+0,000  |          | 243,729     | 13,320    | 182,515     | 10,000     |            | 4.747,514    | 257,810     | 3.459,692    | 152,400 | 105,410 |
| 173+0,000  |          | 243,729     | 10,078    | 192,593     | 10,000     |            | 4.747,514    | 233,980     | 3.693,672    | 152,400 | 81,580  |
| 174+0,000  |          | 243,729     | 7,667     | 200,260     | 10,000     |            | 4.747,514    | 177,450     | 3.871,122    | 152,400 | 25,050  |
| 175+0,000  |          | 243,729     | 7,759     | 208,019     | 10,000     |            | 4.747,514    | 154,260     | 4.025,382    | 152,400 | 1,860   |
| 176+0,000  |          | 243,729     | 4,332     | 212,351     | 10,000     |            | 4.747,514    | 120,910     | 4.146,292    | 120,910 |         |
| 177+0,000  | 0,998    | 244,727     | 0,601     | 212,952     | 10,000     | 9,980      | 4.757,494    | 49,330      | 4.195,622    | 49,330  |         |
| 178+0,000  | 7,644    | 252,371     |           | 212,952     | 10,000     | 86,420     | 4.843,914    | 6,010       | 4.201,632    | 6,010   |         |
| 179+0,000  | 13,021   | 265,392     |           | 212,952     | 10,000     | 206,650    | 5.050,564    |             | 4.201,632    |         |         |
| 180+0,000  | 13,905   | 279,297     |           | 212,952     | 10,000     | 269,260    | 5.319,824    |             | 4.201,632    |         |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 181+0,000  | 9,043    | 288,340     |           | 212,952     | 10,000     | 229,480    | 5.549,304    |             | 4.201,632    |         |         |
| 182+0,000  | 6,808    | 295,148     |           | 212,952     | 10,000     | 158,510    | 5.707,814    |             | 4.201,632    |         |         |
| 183+0,000  |          | 295,148     | 8,242     | 221,194     | 10,000     | 68,080     | 5.775,894    | 82,420      | 4.284,052    | 82,420  |         |
| 184+0,000  |          | 295,148     | 13,187    | 234,381     | 10,000     |            | 5.775,894    | 214,290     | 4.498,342    | 152,400 | 61,890  |
| 185+0,000  |          | 295,148     | 9,204     | 243,585     | 10,000     |            | 5.775,894    | 223,910     | 4.722,252    | 152,400 | 71,510  |
| 186+0,000  | 2,513    | 297,661     | 0,636     | 244,221     | 10,000     | 25,130     | 5.801,024    | 98,400      | 4.820,652    | 98,400  |         |
| 187+0,000  | 10,317   | 307,978     |           | 244,221     | 10,000     | 128,300    | 5.929,324    | 6,360       | 4.827,012    | 6,360   |         |
| 188+0,000  | 13,381   | 321,359     |           | 244,221     | 10,000     | 236,980    | 6.166,304    |             | 4.827,012    |         |         |
| 188+16,299 | 10,724   | 332,083     |           | 244,221     | 8,150      | 196,444    | 6.362,747    |             | 4.827,012    |         |         |
| 188+16,302 | 10,723   | 342,806     |           | 244,221     | 0,002      | 0,032      | 6.362,780    |             | 4.827,012    |         |         |
| 189+0,000  | 9,827    | 352,633     |           | 244,221     | 1,849      | 37,997     | 6.400,776    |             | 4.827,012    |         |         |
| 190+0,000  | 3,637    | 356,270     |           | 244,221     | 10,000     | 134,640    | 6.535,416    |             | 4.827,012    |         |         |
| 191+0,000  | 0,286    | 356,556     | 1,489     | 245,710     | 10,000     | 39,230     | 6.574,646    | 14,890      | 4.841,902    | 14,890  |         |
| 191+10,881 | 0,349    | 356,905     | 2,780     | 248,490     | 5,441      | 3,455      | 6.578,101    | 23,225      | 4.865,128    | 23,225  |         |
| 192+0,000  | 0,324    | 357,229     | 3,135     | 251,625     | 4,560      | 3,069      | 6.581,170    | 26,969      | 4.892,097    | 26,969  |         |
| 193+0,000  |          | 357,229     | 3,712     | 255,337     | 10,000     | 3,240      | 6.584,410    | 68,470      | 4.960,567    | 68,470  |         |
| 194+0,000  | 1,323    | 358,552     | 1,541     | 256,878     | 10,000     | 13,230     | 6.597,640    | 52,530      | 5.013,097    | 52,530  |         |
| 195+0,000  | 2,076    | 360,628     | 1,073     | 257,951     | 10,000     | 33,990     | 6.631,630    | 26,140      | 5.039,237    | 26,140  |         |
| 196+0,000  | 1,055    | 361,683     | 1,099     | 259,050     | 10,000     | 31,310     | 6.662,940    | 21,720      | 5.060,957    | 21,720  |         |
| 197+0,000  | 1,068    | 362,751     | 3,990     | 263,040     | 10,000     | 21,230     | 6.684,170    | 50,890      | 5.111,847    | 50,890  |         |
| 198+0,000  | 0,161    | 362,912     | 3,621     | 266,661     | 10,000     | 12,290     | 6.696,460    | 76,110      | 5.187,957    | 76,110  |         |
| 199+0,000  |          | 362,912     | 5,597     | 272,258     | 10,000     | 1,610      | 6.698,070    | 92,180      | 5.280,137    | 92,180  |         |
| 200+0,000  |          | 362,912     | 5,381     | 277,639     | 10,000     |            | 6.698,070    | 109,780     | 5.389,917    | 109,780 |         |
| 201+0,000  |          | 362,912     | 7,645     | 285,284     | 10,000     |            | 6.698,070    | 130,260     | 5.520,177    | 130,260 |         |
| 202+0,000  |          | 362,912     | 10,111    | 295,395     | 10,000     |            | 6.698,070    | 177,560     | 5.697,737    | 152,400 | 25,160  |
| 203+0,000  |          | 362,912     | 8,856     | 304,251     | 10,000     |            | 6.698,070    | 189,670     | 5.887,407    | 152,400 | 37,270  |
| 204+0,000  |          | 362,912     | 6,216     | 310,467     | 10,000     |            | 6.698,070    | 150,720     | 6.038,127    | 150,720 |         |
| 205+0,000  |          | 362,912     | 5,729     | 316,196     | 10,000     |            | 6.698,070    | 119,450     | 6.157,577    | 119,450 |         |
| 206+0,000  |          | 362,912     | 5,555     | 321,751     | 10,000     |            | 6.698,070    | 112,840     | 6.270,417    | 112,840 |         |
| 207+0,000  |          | 362,912     | 5,987     | 327,738     | 10,000     |            | 6.698,070    | 115,420     | 6.385,837    | 115,420 |         |
| 208+0,000  |          | 362,912     | 5,660     | 333,398     | 10,000     |            | 6.698,070    | 116,470     | 6.502,307    | 116,470 |         |
| 209+0,000  |          | 362,912     | 4,539     | 337,937     | 10,000     |            | 6.698,070    | 101,990     | 6.604,297    | 101,990 |         |
| 210+0,000  |          | 362,912     | 9,214     | 347,151     | 10,000     |            | 6.698,070    | 137,530     | 6.741,827    | 137,530 |         |
| 210+19,087 |          | 362,912     | 3,540     | 350,691     | 9,544      |            | 6.698,070    | 121,718     | 6.863,545    | 121,718 |         |
| 211+0,000  |          | 362,912     | 3,569     | 354,260     | 0,457      |            | 6.698,070    | 3,245       | 6.866,790    | 3,245   |         |
| 212+0,000  |          | 362,912     | 3,904     | 358,164     | 10,000     |            | 6.698,070    | 74,730      | 6.941,520    | 74,730  |         |
| 213+0,000  |          | 362,912     | 2,555     | 360,719     | 10,000     |            | 6.698,070    | 64,590      | 7.006,110    | 64,590  |         |
| 214+0,000  |          | 362,912     | 2,499     | 363,218     | 10,000     |            | 6.698,070    | 50,540      | 7.056,650    | 50,540  |         |
| 214+16,959 |          | 362,912     | 4,557     | 367,775     | 8,480      |            | 6.698,070    | 59,831      | 7.116,481    | 59,831  |         |
| 215+0,000  |          | 362,912     | 4,652     | 372,427     | 1,521      |            | 6.698,070    | 14,002      | 7.130,484    | 14,002  |         |
| 215+10,029 |          | 362,912     | 6,718     | 379,145     | 5,015      |            | 6.698,070    | 57,015      | 7.187,499    | 57,015  |         |
| 216+0,000  |          | 362,912     | 6,785     | 385,930     | 4,986      |            | 6.698,070    | 67,319      | 7.254,818    | 67,319  |         |
| 216+9,878  | 0,012    | 362,924     | 6,589     | 392,519     | 4,939      | 0,059      | 6.698,129    | 66,054      | 7.320,872    | 66,054  |         |
| 217+0,000  | 0,383    | 363,307     | 7,336     | 399,855     | 5,061      | 1,999      | 6.700,128    | 70,474      | 7.391,346    | 70,474  |         |
| 217+11,055 | 1,723    | 365,030     | 6,287     | 406,142     | 5,528      | 11,641     | 6.711,769    | 75,301      | 7.466,648    | 75,301  |         |
| 218+0,000  | 2,310    | 367,340     | 6,384     | 412,526     | 4,473      | 18,038     | 6.729,807    | 56,671      | 7.523,319    | 56,671  |         |
| 218+6,959  | 0,657    | 367,997     | 4,418     | 416,944     | 3,480      | 10,324     | 6.740,130    | 37,586      | 7.560,904    | 37,586  |         |
| 219+0,000  | 3,971    | 371,968     | 2,328     | 419,272     | 6,521      | 30,177     | 6.770,307    | 43,987      | 7.604,891    | 43,987  |         |
| 220+0,000  | 3,562    | 375,530     | 4,048     | 423,320     | 10,000     | 75,330     | 6.845,637    | 63,760      | 7.668,651    | 63,760  |         |
| 220+6,000  | 3,232    | 378,762     | 3,571     | 426,891     | 3,000      | 20,382     | 6.866,019    | 22,857      | 7.691,508    | 22,857  |         |
| 220+7,041  | 3,165    | 381,927     | 3,571     | 430,462     | 0,521      | 3,330      | 6.869,349    | 3,717       | 7.695,226    | 3,717   |         |



### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 220+13,617 | 2,987    | 384,914     | 4,358     | 434,820     | 3,288      | 20,228     | 6.889,577    | 26,071      | 7.721,296    | 26,071  |         |
| 221+0,000  | 4,139    | 389,053     | 4,446     | 439,266     | 3,192      | 22,743     | 6.912,319    | 28,098      | 7.749,394    | 28,098  |         |
| 221+9,843  | 5,593    | 394,646     | 4,616     | 443,882     | 4,922      | 47,896     | 6.960,215    | 44,599      | 7.793,993    | 44,599  |         |
| 222+0,000  | 5,239    | 399,885     | 3,265     | 447,147     | 5,079      | 55,010     | 7.015,226    | 40,024      | 7.834,017    | 40,024  |         |
| 222+9,610  | 5,890    | 405,775     | 1,854     | 449,001     | 4,805      | 53,475     | 7.068,700    | 24,597      | 7.858,613    | 24,597  |         |
| 223+0,000  | 5,771    | 411,546     | 1,663     | 450,664     | 5,195      | 60,579     | 7.129,279    | 18,271      | 7.876,884    | 18,271  |         |
| 223+8,821  | 5,018    | 416,564     | 1,052     | 451,716     | 4,411      | 47,585     | 7.176,864    | 11,975      | 7.888,859    | 11,975  |         |
| 223+17,041 | 5,954    | 422,518     | 0,359     | 452,075     | 4,110      | 45,095     | 7.221,959    | 5,799       | 7.894,658    | 5,799   |         |
| 224+0,000  | 6,665    | 429,183     | 0,272     | 452,347     | 1,480      | 18,670     | 7.240,629    | 0,934       | 7.895,592    | 0,934   |         |
| 225+0,000  | 5,573    | 434,756     |           | 452,347     | 10,000     | 122,380    | 7.363,009    | 2,720       | 7.898,312    | 2,720   |         |
| 226+0,000  | 13,414   | 448,170     |           | 452,347     | 10,000     | 189,870    | 7.552,879    |             | 7.898,312    |         |         |
| 227+0,000  | 18,927   | 467,097     |           | 452,347     | 10,000     | 323,410    | 7.876,289    |             | 7.898,312    |         |         |
| 228+0,000  | 19,232   | 486,329     |           | 452,347     | 10,000     | 381,590    | 8.257,879    |             | 7.898,312    |         |         |
| 228+14,592 | 20,036   | 506,365     |           | 452,347     | 7,296      | 286,499    | 8.544,378    |             | 7.898,312    |         |         |
| 229+0,000  | 21,056   | 527,421     |           | 452,347     | 2,704      | 111,113    | 8.655,491    |             | 7.898,312    |         |         |
| 230+0,000  | 20,248   | 547,669     |           | 452,347     | 10,000     | 413,040    | 9.068,531    |             | 7.898,312    |         |         |
| 231+0,000  | 15,603   | 563,272     |           | 452,347     | 10,000     | 358,510    | 9.427,041    |             | 7.898,312    |         |         |
| 232+0,000  | 11,475   | 574,747     |           | 452,347     | 10,000     | 270,780    | 9.697,821    |             | 7.898,312    |         |         |
| 233+0,000  | 6,269    | 581,016     | 0,083     | 452,430     | 10,000     | 177,440    | 9.875,261    | 0,830       | 7.899,142    | 0,830   |         |
| 234+0,000  | 2,433    | 583,449     | 1,195     | 453,625     | 10,000     | 87,020     | 9.962,281    | 12,780      | 7.911,922    | 12,780  |         |
| 234+6,000  | 1,941    | 585,390     | 2,018     | 455,643     | 3,000      | 13,122     | 9.975,403    | 9,639       | 7.921,561    | 9,639   |         |
| 235+0,000  | 1,887    | 587,277     | 3,794     | 459,437     | 7,000      | 26,796     | 10.002,199   | 40,684      | 7.962,245    | 40,684  |         |
| 236+0,000  | 1,238    | 588,515     | 4,837     | 464,274     | 10,000     | 31,250     | 10.033,449   | 86,310      | 8.048,555    | 86,310  |         |
| 237+0,000  | 0,001    | 588,516     | 4,153     | 468,427     | 10,000     | 12,387     | 10.045,836   | 89,900      | 8.138,455    | 89,900  |         |
| 238+0,000  | 0,296    | 588,812     | 5,479     | 473,906     | 10,000     | 2,967      | 10.048,804   | 96,320      | 8.234,775    | 96,320  |         |
| 239+0,000  | 0,828    | 589,640     | 3,607     | 477,513     | 10,000     | 11,240     | 10.060,044   | 90,860      | 8.325,635    | 90,860  |         |
| 240+0,000  | 1,310    | 590,950     | 1,553     | 479,066     | 10,000     | 21,380     | 10.081,424   | 51,600      | 8.377,235    | 51,600  |         |
| 241+0,000  |          | 590,950     | 4,392     | 483,458     | 10,000     | 13,100     | 10.094,524   | 59,450      | 8.436,685    | 59,450  |         |
| 242+0,000  | 0,584    | 591,534     | 2,383     | 485,841     | 10,000     | 5,840      | 10.100,364   | 67,750      | 8.504,435    | 67,750  |         |
| 243+0,000  | 1,254    | 592,788     | 2,281     | 488,122     | 10,000     | 18,380     | 10.118,744   | 46,640      | 8.551,075    | 46,640  |         |
| 244+0,000  | 2,118    | 594,906     | 2,478     | 490,600     | 10,000     | 33,720     | 10.152,464   | 47,590      | 8.598,665    | 47,590  |         |
| 245+0,000  | 2,527    | 597,433     | 2,014     | 492,614     | 10,000     | 46,450     | 10.198,914   | 44,920      | 8.643,585    | 44,920  |         |
| 246+0,000  | 3,676    | 601,109     | 1,760     | 494,374     | 10,000     | 62,030     | 10.260,944   | 37,740      | 8.681,325    | 37,740  |         |
| 247+0,000  | 1,649    | 602,758     | 1,827     | 496,201     | 10,000     | 53,250     | 10.314,194   | 35,870      | 8.717,195    | 35,870  |         |
| 248+0,000  | 1,380    | 604,138     | 1,849     | 498,050     | 10,000     | 30,290     | 10.344,484   | 36,760      | 8.753,955    | 36,760  |         |
| 249+0,000  |          | 604,138     | 2,627     | 500,677     | 10,000     | 13,800     | 10.358,284   | 44,760      | 8.798,715    | 44,760  |         |
| 250+0,000  | 1,068    | 605,206     | 0,318     | 500,995     | 10,000     | 10,680     | 10.368,964   | 29,450      | 8.828,165    | 29,450  |         |
| 250+11,000 | 0,745    | 605,951     | 0,365     | 501,360     | 5,500      | 9,972      | 10.378,935   | 3,757       | 8.831,921    | 3,757   |         |
| 251+0,000  | 0,684    | 606,635     | 1,116     | 502,476     | 4,500      | 6,431      | 10.385,366   | 6,665       | 8.838,586    | 6,665   |         |
| 252+0,000  | 1,032    | 607,667     | 0,855     | 503,331     | 10,000     | 17,160     | 10.402,526   | 19,710      | 8.858,296    | 19,710  |         |
| 253+0,000  | 2,572    | 610,239     | 0,274     | 503,605     | 10,000     | 36,040     | 10.438,566   | 11,290      | 8.869,586    | 11,290  |         |
| 254+0,000  | 2,719    | 612,958     | 0,061     | 503,666     | 10,000     | 52,910     | 10.491,476   | 3,350       | 8.872,936    | 3,350   |         |
| 255+0,000  | 1,392    | 614,350     | 0,445     | 504,111     | 10,000     | 41,110     | 10.532,586   | 5,060       | 8.877,996    | 5,060   |         |
| 256+0,000  | 0,232    | 614,582     | 1,461     | 505,572     | 10,000     | 16,240     | 10.548,826   | 19,060      | 8.897,056    | 19,060  |         |
| 256+1,000  | 0,189    | 614,771     | 1,438     | 507,010     | 0,500      | 0,211      | 10.549,036   | 1,450       | 8.898,505    | 1,450   |         |
| 257+0,000  |          | 614,771     | 5,204     | 512,214     | 9,500      | 1,796      | 10.550,832   | 63,099      | 8.961,604    | 63,099  |         |
| 257+15,000 |          | 614,771     | 5,895     | 518,109     | 7,500      |            | 10.550,832   | 83,243      | 9.044,847    | 83,243  |         |
| 258+0,000  |          | 614,771     | 7,914     | 526,023     | 2,500      |            | 10.550,832   | 34,523      | 9.079,369    | 34,523  |         |
| 259+0,000  |          | 614,771     | 5,237     | 531,260     | 10,000     |            | 10.550,832   | 131,510     | 9.210,879    | 131,510 |         |
| 260+0,000  |          | 614,771     | 5,002     | 536,262     | 10,000     |            | 10.550,832   | 102,390     | 9.313,269    | 102,390 |         |
| 261+0,000  |          | 614,771     | 6,926     | 543,188     | 10,000     |            | 10.550,832   | 119,280     | 9.432,549    | 119,280 |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 262+0,000  |          | 614,771     | 6,250     | 549,438     | 10,000     |            | 10.550,832   | 131,760     | 9.564,309    | 131,760 |         |
| 263+0,000  |          | 614,771     | 6,238     | 555,676     | 10,000     |            | 10.550,832   | 124,880     | 9.689,189    | 124,880 |         |
| 264+0,000  |          | 614,771     | 5,807     | 561,483     | 10,000     |            | 10.550,832   | 120,450     | 9.809,639    | 120,450 |         |
| 265+0,000  |          | 614,771     | 6,699     | 568,182     | 10,000     |            | 10.550,832   | 125,060     | 9.934,699    | 125,060 |         |
| 266+0,000  |          | 614,771     | 9,489     | 577,671     | 10,000     |            | 10.550,832   | 161,880     | 10.096,579   | 152,400 | 9,480   |
| 266+1,712  |          | 614,771     | 11,086    | 588,757     | 0,856      |            | 10.550,832   | 17,612      | 10.114,191   | 17,612  |         |
| 266+15,000 |          | 614,771     | 13,926    | 602,683     | 6,644      |            | 10.550,832   | 166,180     | 10.280,371   | 152,400 | 13,780  |
| 267+0,000  |          | 614,771     | 11,559    | 614,242     | 2,500      |            | 10.550,832   | 63,713      | 10.344,083   | 63,713  |         |
| 268+0,000  |          | 614,771     | 10,077    | 624,319     | 10,000     |            | 10.550,832   | 216,360     | 10.560,443   | 152,400 | 63,960  |
| 269+0,000  |          | 614,771     | 15,366    | 639,685     | 10,000     |            | 10.550,832   | 254,430     | 10.814,873   | 152,400 | 102,030 |
| 270+0,000  |          | 614,771     | 19,049    | 658,734     | 10,000     |            | 10.550,832   | 344,150     | 11.159,023   | 152,400 | 191,750 |
| 271+0,000  |          | 614,771     | 23,986    | 682,720     | 10,000     |            | 10.550,832   | 430,350     | 11.589,373   | 152,400 | 277,950 |
| 272+0,000  |          | 614,771     | 18,134    | 700,854     | 10,000     |            | 10.550,832   | 421,200     | 12.010,573   | 152,400 | 268,800 |
| 273+0,000  |          | 614,771     | 14,813    | 715,667     | 10,000     |            | 10.550,832   | 329,470     | 12.340,043   | 152,400 | 177,070 |
| 274+0,000  |          | 614,771     | 20,549    | 736,216     | 10,000     |            | 10.550,832   | 353,620     | 12.693,663   | 152,400 | 201,220 |
| 275+0,000  |          | 614,771     | 18,495    | 754,711     | 10,000     |            | 10.550,832   | 390,440     | 13.084,103   | 152,400 | 238,040 |
| 276+0,000  |          | 614,771     | 24,128    | 778,839     | 10,000     |            | 10.550,832   | 426,230     | 13.510,333   | 152,400 | 273,830 |
| 277+0,000  |          | 614,771     | 19,508    | 798,347     | 10,000     |            | 10.550,832   | 436,360     | 13.946,693   | 152,400 | 283,960 |
| 278+0,000  |          | 614,771     | 17,497    | 815,844     | 10,000     |            | 10.550,832   | 370,050     | 14.316,743   | 152,400 | 217,650 |
| 279+0,000  |          | 614,771     | 16,657    | 832,501     | 10,000     |            | 10.550,832   | 341,540     | 14.658,283   | 152,400 | 189,140 |
| 279+3,000  |          | 614,771     | 16,627    | 849,128     | 1,500      |            | 10.550,832   | 49,926      | 14.708,209   | 49,926  |         |
| 279+12,569 |          | 614,771     | 14,826    | 863,954     | 4,785      |            | 10.550,832   | 150,487     | 14.858,696   | 150,487 |         |
| 280+0,000  |          | 614,771     | 14,826    | 878,780     | 3,716      |            | 10.550,832   | 110,172     | 14.968,868   | 110,172 |         |
| 281+0,000  |          | 614,771     | 14,403    | 893,183     | 10,000     |            | 10.550,832   | 292,290     | 15.261,158   | 200,400 | 91,890  |
| 282+0,000  |          | 614,771     | 17,461    | 910,644     | 10,000     |            | 10.550,832   | 318,640     | 15.579,798   | 200,400 | 118,240 |
| 283+0,000  |          | 614,771     | 17,253    | 927,897     | 10,000     |            | 10.550,832   | 347,140     | 15.926,938   | 200,400 | 146,740 |
| 283+2,569  |          | 614,771     | 17,479    | 945,376     | 1,285      |            | 10.550,832   | 44,613      | 15.971,552   | 44,613  |         |
| 284+0,000  |          | 614,771     | 14,065    | 959,441     | 8,716      |            | 10.550,832   | 274,922     | 16.246,473   | 200,400 | 74,522  |
| 285+0,000  |          | 614,771     | 12,381    | 971,822     | 10,000     |            | 10.550,832   | 264,460     | 16.510,933   | 200,400 | 64,060  |
| 285+2,600  |          | 614,771     | 12,480    | 984,302     | 1,300      |            | 10.550,832   | 32,319      | 16.543,253   | 32,319  |         |
| 286+0,000  |          | 614,771     | 12,589    | 996,891     | 8,700      |            | 10.550,832   | 218,100     | 16.761,353   | 200,400 | 17,700  |
| 287+0,000  |          | 614,771     | 11,102    | 1.007,993   | 10,000     |            | 10.550,832   | 236,910     | 16.998,263   | 200,400 | 36,510  |
| 287+3,000  |          | 614,771     | 11,165    | 1.019,158   | 1,500      |            | 10.550,832   | 33,401      | 17.031,663   | 33,401  |         |
| 288+0,000  |          | 614,771     | 10,182    | 1.029,340   | 8,500      |            | 10.550,832   | 181,450     | 17.213,113   | 181,450 |         |
| 288+12,600 |          | 614,771     | 8,953     | 1.038,293   | 6,300      |            | 10.550,832   | 120,551     | 17.333,663   | 120,551 |         |
| 289+0,000  |          | 614,771     | 9,332     | 1.047,625   | 3,700      |            | 10.550,832   | 67,655      | 17.401,318   | 67,655  |         |
| 290+0,000  |          | 614,771     | 7,476     | 1.055,101   | 10,000     |            | 10.550,832   | 168,080     | 17.569,398   | 152,400 | 15,680  |
| 291+0,000  |          | 614,771     | 8,195     | 1.063,296   | 10,000     |            | 10.550,832   | 156,710     | 17.726,108   | 152,400 | 4,310   |
| 292+0,000  |          | 614,771     | 7,375     | 1.070,671   | 10,000     |            | 10.550,832   | 155,700     | 17.881,808   | 152,400 | 3,300   |
| 293+0,000  |          | 614,771     | 3,444     | 1.074,115   | 10,000     |            | 10.550,832   | 108,190     | 17.989,998   | 108,190 |         |
| 294+0,000  |          | 614,771     | 3,405     | 1.077,520   | 10,000     |            | 10.550,832   | 68,490      | 18.058,488   | 68,490  |         |
| 295+0,000  |          | 614,771     | 3,290     | 1.080,810   | 10,000     |            | 10.550,832   | 66,950      | 18.125,438   | 66,950  |         |
| 296+0,000  | 1,411    | 616,182     | 2,056     | 1.082,866   | 10,000     | 14,110     | 10.564,942   | 53,460      | 18.178,898   | 53,460  |         |
| 297+0,000  | 2,634    | 618,816     | 0,319     | 1.083,185   | 10,000     | 40,450     | 10.605,392   | 23,750      | 18.202,648   | 23,750  |         |
| 298+0,000  | 9,995    | 628,811     |           | 1.083,185   | 10,000     | 126,290    | 10.731,682   | 3,190       | 18.205,838   | 3,190   |         |
| 299+0,000  | 18,713   | 647,524     |           | 1.083,185   | 10,000     | 287,080    | 11.018,762   |             | 18.205,838   |         |         |
| 300+0,000  | 24,121   | 671,645     |           | 1.083,185   | 10,000     | 428,340    | 11.447,102   |             | 18.205,838   |         |         |
| 301+0,000  | 24,239   | 695,884     |           | 1.083,185   | 10,000     | 483,600    | 11.930,702   |             | 18.205,838   |         |         |
| 302+0,000  | 27,911   | 723,795     |           | 1.083,185   | 10,000     | 521,500    | 12.452,202   |             | 18.205,838   |         |         |
| 303+0,000  | 21,931   | 745,726     |           | 1.083,185   | 10,000     | 498,420    | 12.950,622   |             | 18.205,838   |         |         |
| 304+0,000  | 19,998   | 765,724     |           | 1.083,185   | 10,000     | 419,290    | 13.369,912   |             | 18.205,838   |         |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 305+0,000  | 11,997   | 777,721     |           | 1.083,185   | 10,000     | 319,950    | 13.689,862   |             | 18.205,838   |         |         |
| 306+0,000  | 4,392    | 782,113     |           | 1.083,185   | 10,000     | 163,890    | 13.853,752   |             | 18.205,838   |         |         |
| 307+0,000  | 0,123    | 782,236     | 1,800     | 1.084,985   | 10,000     | 45,150     | 13.898,902   | 18,000      | 18.223,838   | 18,000  |         |
| 308+0,000  |          | 782,236     | 4,223     | 1.089,208   | 10,000     | 1,230      | 13.900,132   | 60,230      | 18.284,068   | 60,230  |         |
| 309+0,000  |          | 782,236     | 10,631    | 1.099,839   | 10,000     |            | 13.900,132   | 148,540     | 18.432,608   | 148,540 |         |
| 310+0,000  |          | 782,236     | 12,105    | 1.111,944   | 10,000     |            | 13.900,132   | 227,360     | 18.659,968   | 152,400 | 74,960  |
| 311+0,000  |          | 782,236     | 10,722    | 1.122,666   | 10,000     |            | 13.900,132   | 228,270     | 18.888,238   | 152,400 | 75,870  |
| 312+0,000  |          | 782,236     | 5,333     | 1.127,999   | 10,000     |            | 13.900,132   | 160,550     | 19.048,788   | 152,400 | 8,150   |
| 313+0,000  | 3,135    | 785,371     | 0,045     | 1.128,044   | 10,000     | 31,350     | 13.931,482   | 53,780      | 19.102,568   | 53,780  |         |
| 314+0,000  | 11,043   | 796,414     |           | 1.128,044   | 10,000     | 141,780    | 14.073,262   | 0,450       | 19.103,018   | 0,450   |         |
| 315+0,000  | 17,615   | 814,029     |           | 1.128,044   | 10,000     | 286,580    | 14.359,842   |             | 19.103,018   |         |         |
| 316+0,000  | 21,710   | 835,739     |           | 1.128,044   | 10,000     | 393,250    | 14.753,092   |             | 19.103,018   |         |         |
| 317+0,000  | 19,352   | 855,091     |           | 1.128,044   | 10,000     | 410,620    | 15.163,712   |             | 19.103,018   |         |         |
| 317+13,599 | 18,140   | 873,231     |           | 1.128,044   | 6,800      | 254,927    | 15.418,639   |             | 19.103,018   |         |         |
| 318+0,000  | 18,205   | 891,436     |           | 1.128,044   | 3,201      | 116,322    | 15.534,961   |             | 19.103,018   |         |         |
| 319+0,000  | 18,486   | 909,922     |           | 1.128,044   | 10,000     | 366,910    | 15.901,871   |             | 19.103,018   |         |         |
| 320+0,000  | 17,241   | 927,163     |           | 1.128,044   | 10,000     | 357,270    | 16.259,141   |             | 19.103,018   |         |         |
| 321+0,000  | 17,618   | 944,781     |           | 1.128,044   | 10,000     | 348,590    | 16.607,731   |             | 19.103,018   |         |         |
| 322+0,000  | 17,758   | 962,539     |           | 1.128,044   | 10,000     | 353,760    | 16.961,491   |             | 19.103,018   |         |         |
| 323+0,000  | 19,688   | 982,227     |           | 1.128,044   | 10,000     | 374,460    | 17.335,951   |             | 19.103,018   |         |         |
| 324+0,000  | 19,307   | 1.001,534   |           | 1.128,044   | 10,000     | 389,950    | 17.725,901   |             | 19.103,018   |         |         |
| 325+0,000  | 12,458   | 1.013,992   |           | 1.128,044   | 10,000     | 317,650    | 18.043,551   |             | 19.103,018   |         |         |
| 326+0,000  | 9,417    | 1.023,409   |           | 1.128,044   | 10,000     | 218,750    | 18.262,301   |             | 19.103,018   |         |         |
| 327+0,000  | 6,798    | 1.030,207   |           | 1.128,044   | 10,000     | 162,150    | 18.424,451   |             | 19.103,018   |         |         |
| 327+15,933 | 6,207    | 1.036,414   |           | 1.128,044   | 7,967      | 103,604    | 18.528,055   |             | 19.103,018   |         |         |
| 328+0,000  | 5,368    | 1.041,782   |           | 1.128,044   | 2,034      | 23,538     | 18.551,593   |             | 19.103,018   |         |         |
| 328+14,194 | 4,745    | 1.046,527   | 0,131     | 1.128,175   | 7,097      | 71,772     | 18.623,365   | 0,930       | 19.103,948   | 0,930   |         |
| 329+0,000  | 4,822    | 1.051,349   | 0,271     | 1.128,446   | 2,903      | 27,773     | 18.651,138   | 1,167       | 19.105,115   | 1,167   |         |
| 329+5,394  | 4,411    | 1.055,760   | 0,435     | 1.128,881   | 2,697      | 24,901     | 18.676,039   | 1,904       | 19.107,019   | 1,904   |         |
| 329+12,455 | 3,527    | 1.059,287   | 0,778     | 1.129,659   | 3,531      | 28,025     | 18.704,064   | 4,282       | 19.111,301   | 4,282   |         |
| 330+0,000  | 2,585    | 1.061,872   | 1,168     | 1.130,827   | 3,773      | 23,058     | 18.727,122   | 7,341       | 19.118,643   | 7,341   |         |
| 330+2,194  | 2,356    | 1.064,228   | 1,135     | 1.131,962   | 1,097      | 5,420      | 18.732,542   | 2,526       | 19.121,169   | 2,526   |         |
| 331+0,000  | 0,136    | 1.064,364   | 2,965     | 1.134,927   | 8,903      | 22,186     | 18.754,728   | 36,502      | 19.157,671   | 36,502  |         |
| 331+10,020 | 1,505    | 1.065,869   | 3,722     | 1.138,649   | 5,010      | 8,221      | 18.762,950   | 33,502      | 19.191,173   | 33,502  |         |
| 332+0,000  | 2,691    | 1.068,560   | 3,708     | 1.142,357   | 4,990      | 20,938     | 18.783,888   | 37,076      | 19.228,249   | 37,076  |         |
| 332+17,847 | 2,092    | 1.070,652   | 3,920     | 1.146,277   | 8,924      | 42,681     | 18.826,569   | 68,068      | 19.296,317   | 68,068  |         |
| 333+0,000  | 1,585    | 1.072,237   | 3,642     | 1.149,919   | 1,077      | 3,958      | 18.830,527   | 8,140       | 19.304,458   | 8,140   |         |
| 333+14,647 | 0,611    | 1.072,848   | 2,863     | 1.152,782   | 7,324      | 16,082     | 18.846,610   | 47,639      | 19.352,097   | 47,639  |         |
| 334+0,000  | 0,704    | 1.073,552   | 3,730     | 1.156,512   | 2,677      | 3,520      | 18.850,129   | 17,646      | 19.369,743   | 17,646  |         |
| 334+3,490  | 0,593    | 1.074,145   | 4,446     | 1.160,958   | 1,745      | 2,263      | 18.852,393   | 14,267      | 19.384,010   | 14,267  |         |
| 334+11,000 |          | 1.074,145   | 6,839     | 1.167,797   | 3,755      | 2,227      | 18.854,619   | 42,375      | 19.426,386   | 42,375  |         |
| 335+0,000  |          | 1.074,145   | 12,676    | 1.180,473   | 4,500      |            | 18.854,619   | 87,818      | 19.514,203   | 87,818  |         |
| 335+0,290  |          | 1.074,145   | 12,846    | 1.193,319   | 0,145      |            | 18.854,619   | 3,701       | 19.517,904   | 3,701   |         |
| 336+0,000  |          | 1.074,145   | 19,696    | 1.213,015   | 9,855      |            | 18.854,619   | 320,701     | 19.838,605   | 152,400 | 168,301 |
| 337+0,000  |          | 1.074,145   | 19,950    | 1.232,965   | 10,000     |            | 18.854,619   | 396,460     | 20.235,065   | 152,400 | 244,060 |
| 338+0,000  |          | 1.074,145   | 24,586    | 1.257,551   | 10,000     |            | 18.854,619   | 445,360     | 20.680,425   | 152,400 | 292,960 |
| 338+0,028  |          | 1.074,145   | 24,583    | 1.282,134   | 0,014      |            | 18.854,619   | 0,688       | 20.681,114   | 0,688   |         |
| 339+0,000  |          | 1.074,145   | 15,719    | 1.297,853   | 9,986      |            | 18.854,619   | 402,456     | 21.083,569   | 152,400 | 250,056 |
| 340+0,000  |          | 1.074,145   | 6,414     | 1.304,267   | 10,000     |            | 18.854,619   | 221,330     | 21.304,899   | 152,400 | 68,930  |
| 340+19,766 | 1,013    | 1.075,158   | 1,027     | 1.305,294   | 9,883      | 10,011     | 18.864,631   | 73,539      | 21.378,439   | 73,539  |         |
| 341+0,000  | 1,016    | 1.076,174   | 0,976     | 1.306,270   | 0,117      | 0,237      | 18.864,868   | 0,234       | 21.378,673   | 0,234   |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 341+16,566 | 1,612    | 1.077,786   | 0,273     | 1.306,543   | 8,283      | 21,768     | 18.886,636   | 10,345      | 21.389,019   | 10,345  |         |
| 342+0,000  | 1,713    | 1.079,499   | 0,351     | 1.306,894   | 1,717      | 5,709      | 18.892,345   | 1,071       | 21.390,090   | 1,071   |         |
| 342+11,000 | 2,330    | 1.081,829   | 0,290     | 1.307,184   | 5,500      | 22,237     | 18.914,581   | 3,526       | 21.393,615   | 3,526   |         |
| 343+0,000  | 3,447    | 1.085,276   | 0,278     | 1.307,462   | 4,500      | 25,997     | 18.940,578   | 2,556       | 21.396,171   | 2,556   |         |
| 344+0,000  | 0,001    | 1.085,276   | 2,932     | 1.310,394   | 10,000     | 34,475     | 18.975,053   | 32,100      | 21.428,271   | 32,100  |         |
| 344+9,178  | 0,228    | 1.085,504   | 4,396     | 1.314,790   | 4,589      | 1,049      | 18.976,102   | 33,628      | 21.461,900   | 33,628  |         |
| 344+19,378 | 0,536    | 1.086,040   | 5,171     | 1.319,961   | 5,100      | 3,896      | 18.979,998   | 48,792      | 21.510,691   | 48,792  |         |
| 345+0,000  | 0,536    | 1.086,576   | 5,178     | 1.325,139   | 0,311      | 0,333      | 18.980,332   | 3,219       | 21.513,910   | 3,219   |         |
| 345+0,592  | 0,535    | 1.087,111   | 5,183     | 1.330,322   | 0,296      | 0,317      | 18.980,649   | 3,067       | 21.516,977   | 3,067   |         |
| 346+0,000  | 1,687    | 1.088,798   | 4,955     | 1.335,277   | 9,704      | 21,562     | 19.002,211   | 98,379      | 21.615,356   | 98,379  |         |
| 347+0,000  | 1,982    | 1.090,780   | 5,355     | 1.340,632   | 10,000     | 36,690     | 19.038,901   | 103,100     | 21.718,456   | 103,100 |         |
| 347+16,471 | 0,530    | 1.091,310   | 4,067     | 1.344,699   | 8,236      | 20,688     | 19.059,589   | 77,595      | 21.796,051   | 77,595  |         |
| 348+0,000  |          | 1.091,310   | 4,734     | 1.349,433   | 1,765      | 0,935      | 19.060,524   | 15,529      | 21.811,580   | 15,529  |         |
| 349+0,000  |          | 1.091,310   | 3,511     | 1.352,944   | 10,000     |            | 19.060,524   | 82,450      | 21.894,030   | 82,450  |         |
| 350+0,000  |          | 1.091,310   | 1,888     | 1.354,832   | 10,000     |            | 19.060,524   | 53,990      | 21.948,020   | 53,990  |         |
| 350+12,349 |          | 1.091,310   | 1,342     | 1.356,174   | 6,175      |            | 19.060,524   | 19,944      | 21.967,964   | 19,944  |         |
| 350+13,564 |          | 1.091,310   | 1,479     | 1.357,653   | 0,607      |            | 19.060,524   | 1,712       | 21.969,676   | 1,712   |         |
| 351+0,000  |          | 1.091,310   | 2,564     | 1.360,217   | 3,218      |            | 19.060,524   | 13,010      | 21.982,686   | 13,010  |         |
| 351+3,764  |          | 1.091,310   | 3,472     | 1.363,689   | 1,882      |            | 19.060,524   | 11,360      | 21.994,046   | 11,360  |         |
| 351+10,564 |          | 1.091,310   | 4,260     | 1.367,949   | 3,400      |            | 19.060,524   | 26,289      | 22.020,335   | 26,289  |         |
| 352+0,000  |          | 1.091,310   | 3,372     | 1.371,321   | 4,718      |            | 19.060,524   | 36,008      | 22.056,343   | 36,008  |         |
| 352+8,778  |          | 1.091,310   | 3,392     | 1.374,713   | 4,389      |            | 19.060,524   | 29,687      | 22.086,030   | 29,687  |         |
| 353+0,000  |          | 1.091,310   | 5,660     | 1.380,373   | 5,611      |            | 19.060,524   | 50,791      | 22.136,821   | 50,791  |         |
| 354+0,000  |          | 1.091,310   | 5,940     | 1.386,313   | 10,000     |            | 19.060,524   | 116,000     | 22.252,821   | 116,000 |         |
| 354+8,000  |          | 1.091,310   | 6,079     | 1.392,392   | 4,000      |            | 19.060,524   | 48,076      | 22.300,897   | 48,076  |         |
| 355+0,000  |          | 1.091,310   | 7,901     | 1.400,293   | 6,000      |            | 19.060,524   | 83,880      | 22.384,777   | 83,880  |         |
| 356+0,000  |          | 1.091,310   | 9,135     | 1.409,428   | 10,000     |            | 19.060,524   | 170,360     | 22.555,137   | 152,400 | 17,960  |
| 357+0,000  |          | 1.091,310   | 11,872    | 1.421,300   | 10,000     |            | 19.060,524   | 210,070     | 22.765,207   | 152,400 | 57,670  |
| 358+0,000  |          | 1.091,310   | 12,245    | 1.433,545   | 10,000     |            | 19.060,524   | 241,170     | 23.006,377   | 152,400 | 88,770  |
| 359+0,000  |          | 1.091,310   | 11,669    | 1.445,214   | 10,000     |            | 19.060,524   | 239,140     | 23.245,517   | 152,400 | 86,740  |
| 360+0,000  |          | 1.091,310   | 12,567    | 1.457,781   | 10,000     |            | 19.060,524   | 242,360     | 23.487,877   | 152,400 | 89,960  |
| 360+8,000  |          | 1.091,310   | 16,641    | 1.474,422   | 4,000      |            | 19.060,524   | 116,832     | 23.604,709   | 116,832 |         |
| 361+0,000  |          | 1.091,310   | 14,398    | 1.488,820   | 6,000      |            | 19.060,524   | 186,234     | 23.790,943   | 152,400 | 33,834  |
| 362+0,000  |          | 1.091,310   | 11,239    | 1.500,059   | 10,000     |            | 19.060,524   | 256,370     | 24.047,313   | 152,400 | 103,970 |
| 363+0,000  |          | 1.091,310   | 8,227     | 1.508,286   | 10,000     |            | 19.060,524   | 194,660     | 24.241,973   | 152,400 | 42,260  |
| 363+5,423  |          | 1.091,310   | 7,967     | 1.516,253   | 2,712      |            | 19.060,524   | 43,910      | 24.285,883   | 43,910  |         |
| 364+0,000  |          | 1.091,310   | 8,251     | 1.524,504   | 7,289      |            | 19.060,524   | 118,205     | 24.404,088   | 118,205 |         |
| 365+0,000  |          | 1.091,310   | 6,924     | 1.531,428   | 10,000     |            | 19.060,524   | 151,750     | 24.555,838   | 151,750 |         |
| 366+0,000  |          | 1.091,310   | 3,489     | 1.534,917   | 10,000     |            | 19.060,524   | 104,130     | 24.659,968   | 104,130 |         |
| 367+0,000  | 1,639    | 1.092,949   | 0,107     | 1.535,024   | 10,000     | 16,390     | 19.076,914   | 35,960      | 24.695,928   | 35,960  |         |
| 368+0,000  | 2,901    | 1.095,850   | 0,217     | 1.535,241   | 10,000     | 45,400     | 19.122,314   | 3,240       | 24.699,168   | 3,240   |         |
| 369+0,000  | 5,680    | 1.101,530   | 0,047     | 1.535,288   | 10,000     | 85,810     | 19.208,124   | 2,640       | 24.701,808   | 2,640   |         |
| 370+0,000  | 9,699    | 1.111,229   |           | 1.535,288   | 10,000     | 153,790    | 19.361,914   | 0,470       | 24.702,278   | 0,470   |         |
| 371+0,000  | 16,738   | 1.127,967   |           | 1.535,288   | 10,000     | 264,370    | 19.626,284   |             | 24.702,278   |         |         |
| 372+0,000  | 17,122   | 1.145,089   |           | 1.535,288   | 10,000     | 338,600    | 19.964,884   |             | 24.702,278   |         |         |
| 372+13,000 | 16,834   | 1.161,923   |           | 1.535,288   | 6,500      | 220,714    | 20.185,598   |             | 24.702,278   |         |         |
| 373+0,000  | 16,757   | 1.178,680   |           | 1.535,288   | 3,500      | 117,569    | 20.303,166   |             | 24.702,278   |         |         |
| 374+0,000  | 10,577   | 1.189,257   |           | 1.535,288   | 10,000     | 273,340    | 20.576,506   |             | 24.702,278   |         |         |
| 375+0,000  | 4,882    | 1.194,139   | 0,222     | 1.535,510   | 10,000     | 154,590    | 20.731,096   | 2,220       | 24.704,498   | 2,220   |         |
| 375+11,407 | 1,924    | 1.196,063   | 1,555     | 1.537,065   | 5,704      | 38,818     | 20.769,914   | 10,135      | 24.714,633   | 10,135  |         |
| 376+0,000  | 0,828    | 1.196,891   | 2,865     | 1.539,930   | 4,297      | 11,824     | 20.781,738   | 18,991      | 24.733,623   | 18,991  |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 377+0,000  |          | 1.196,891   | 4,039     | 1.543,969   | 10,000     | 8,280      | 20.790,018   | 69,040      | 24.802,663   | 69,040  |         |
| 377+3,407  | 0,321    | 1.197,212   | 3,848     | 1.547,817   | 1,704      | 0,547      | 20.790,565   | 13,436      | 24.816,099   | 13,436  |         |
| 378+0,000  | 1,200    | 1.198,412   | 5,384     | 1.553,201   | 8,297      | 12,619     | 20.803,184   | 76,593      | 24.892,692   | 76,593  |         |
| 378+1,407  | 1,229    | 1.199,641   | 5,676     | 1.558,877   | 0,704      | 1,709      | 20.804,893   | 7,781       | 24.900,473   | 7,781   |         |
| 378+19,407 | 2,304    | 1.201,945   | 6,396     | 1.565,273   | 9,000      | 31,797     | 20.836,690   | 108,648     | 25.009,121   | 108,648 |         |
| 379+0,000  | 2,342    | 1.204,287   | 6,340     | 1.571,613   | 0,297      | 1,378      | 20.838,068   | 3,776       | 25.012,897   | 3,776   |         |
| 379+11,407 | 2,586    | 1.206,873   | 5,419     | 1.577,032   | 5,704      | 28,107     | 20.866,174   | 67,067      | 25.079,965   | 67,067  |         |
| 380+0,000  | 2,069    | 1.208,942   | 5,714     | 1.582,746   | 4,297      | 20,000     | 20.886,175   | 47,833      | 25.127,797   | 47,833  |         |
| 381+0,000  | 1,299    | 1.210,241   | 3,378     | 1.586,124   | 10,000     | 33,680     | 20.919,855   | 90,920      | 25.218,717   | 90,920  |         |
| 381+13,000 | 0,817    | 1.211,058   | 1,688     | 1.587,812   | 6,500      | 13,754     | 20.933,609   | 32,929      | 25.251,646   | 32,929  |         |
| 382+0,000  | 0,895    | 1.211,953   | 0,105     | 1.587,917   | 3,500      | 5,992      | 20.939,601   | 6,276       | 25.257,922   | 6,276   |         |
| 382+6,000  | 0,767    | 1.212,720   | 0,090     | 1.588,007   | 3,000      | 4,986      | 20.944,587   | 0,585       | 25.258,507   | 0,585   |         |
| 383+0,000  | 0,450    | 1.213,170   | 1,212     | 1.589,219   | 7,000      | 8,519      | 20.953,106   | 9,114       | 25.267,621   | 9,114   |         |
| 383+12,464 | 0,737    | 1.213,907   | 0,768     | 1.589,987   | 6,232      | 7,397      | 20.960,503   | 12,339      | 25.279,960   | 12,339  |         |
| 384+0,000  | 0,769    | 1.214,676   | 0,478     | 1.590,465   | 3,768      | 5,675      | 20.966,178   | 4,695       | 25.284,655   | 4,695   |         |
| 385+0,000  | 2,539    | 1.217,215   | 3,346     | 1.593,811   | 10,000     | 33,080     | 20.999,258   | 38,240      | 25.322,895   | 38,240  |         |
| 386+0,000  | 3,495    | 1.220,710   | 5,140     | 1.598,951   | 10,000     | 60,340     | 21.059,598   | 84,860      | 25.407,755   | 84,860  |         |
| 387+0,000  | 1,903    | 1.222,613   | 4,755     | 1.603,706   | 10,000     | 53,980     | 21.113,578   | 98,950      | 25.506,705   | 98,950  |         |
| 387+6,000  | 1,279    | 1.223,892   | 4,371     | 1.608,077   | 3,000      | 9,546      | 21.123,124   | 27,378      | 25.534,083   | 27,378  |         |
| 387+13,520 | 0,300    | 1.224,192   | 3,921     | 1.611,998   | 3,760      | 5,937      | 21.129,061   | 31,178      | 25.565,261   | 31,178  |         |
| 388+0,000  |          | 1.224,192   | 4,134     | 1.616,132   | 3,240      | 0,972      | 21.130,033   | 26,098      | 25.591,359   | 26,098  |         |
| 388+5,520  | 0,428    | 1.224,620   | 3,550     | 1.619,682   | 2,760      | 1,181      | 21.131,214   | 21,208      | 25.612,567   | 21,208  |         |
| 389+0,000  | 1,818    | 1.226,438   | 0,750     | 1.620,432   | 7,240      | 16,261     | 21.147,475   | 31,132      | 25.643,699   | 31,132  |         |
| 389+3,520  | 2,187    | 1.228,625   | 0,443     | 1.620,875   | 1,760      | 7,049      | 21.154,524   | 2,100       | 25.645,799   | 2,100   |         |
| 390+0,000  | 4,139    | 1.232,764   | 0,026     | 1.620,901   | 8,240      | 52,126     | 21.206,650   | 3,865       | 25.649,663   | 3,865   |         |
| 390+1,520  | 4,342    | 1.237,106   | 0,008     | 1.620,909   | 0,760      | 6,446      | 21.213,096   | 0,026       | 25.649,689   | 0,026   |         |
| 390+17,462 | 4,894    | 1.242,000   |           | 1.620,909   | 7,971      | 73,620     | 21.286,716   | 0,064       | 25.649,753   | 0,064   |         |
| 391+0,000  | 5,064    | 1.247,064   |           | 1.620,909   | 1,269      | 12,637     | 21.299,352   |             | 25.649,753   |         |         |
| 391+13,520 | 5,438    | 1.252,502   |           | 1.620,909   | 6,760      | 70,994     | 21.370,346   |             | 25.649,753   |         |         |
| 392+0,000  | 5,732    | 1.258,234   | 0,002     | 1.620,911   | 3,240      | 36,191     | 21.406,537   | 0,006       | 25.649,760   | 0,006   |         |
| 393+0,000  | 6,991    | 1.265,225   |           | 1.620,911   | 10,000     | 127,230    | 21.533,767   | 0,020       | 25.649,780   | 0,020   |         |
| 394+0,000  | 4,508    | 1.269,733   | 0,344     | 1.621,255   | 10,000     | 114,990    | 21.648,757   | 3,440       | 25.653,220   | 3,440   |         |
| 395+0,000  | 2,018    | 1.271,751   | 1,864     | 1.623,119   | 10,000     | 65,260     | 21.714,017   | 22,080      | 25.675,300   | 22,080  |         |
| 396+0,000  | 0,801    | 1.272,552   | 2,983     | 1.626,102   | 10,000     | 28,190     | 21.742,207   | 48,470      | 25.723,770   | 48,470  |         |
| 397+0,000  | 0,404    | 1.272,956   | 5,341     | 1.631,443   | 10,000     | 12,050     | 21.754,257   | 83,240      | 25.807,010   | 83,240  |         |
| 398+0,000  |          | 1.272,956   | 7,161     | 1.638,604   | 10,000     | 4,040      | 21.758,297   | 125,020     | 25.932,030   | 125,020 |         |
| 399+0,000  |          | 1.272,956   | 9,353     | 1.647,957   | 10,000     |            | 21.758,297   | 165,140     | 26.097,170   | 152,400 | 12,740  |
| 399+3,000  |          | 1.272,956   | 9,143     | 1.657,100   | 1,500      |            | 21.758,297   | 27,744      | 26.124,914   | 27,744  |         |
| 400+0,000  |          | 1.272,956   | 8,716     | 1.665,816   | 8,500      |            | 21.758,297   | 151,802     | 26.276,715   | 151,802 |         |
| 401+0,000  |          | 1.272,956   | 10,478    | 1.676,294   | 10,000     |            | 21.758,297   | 191,940     | 26.468,655   | 152,400 | 39,540  |
| 402+0,000  |          | 1.272,956   | 10,317    | 1.686,611   | 10,000     |            | 21.758,297   | 207,950     | 26.676,605   | 152,400 | 55,550  |
| 403+0,000  |          | 1.272,956   | 11,650    | 1.698,261   | 10,000     |            | 21.758,297   | 219,670     | 26.896,275   | 152,400 | 67,270  |
| 403+8,740  |          | 1.272,956   | 10,567    | 1.708,828   | 4,370      |            | 21.758,297   | 97,088      | 26.993,363   | 97,088  |         |
| 404+0,000  |          | 1.272,956   | 10,263    | 1.719,091   | 5,630      |            | 21.758,297   | 117,273     | 27.110,636   | 117,273 |         |
| 405+0,000  |          | 1.272,956   | 8,638     | 1.727,729   | 10,000     |            | 21.758,297   | 189,010     | 27.299,646   | 152,400 | 36,610  |
| 405+3,000  |          | 1.272,956   | 8,379     | 1.736,108   | 1,500      |            | 21.758,297   | 25,526      | 27.325,172   | 25,526  |         |
| 406+0,000  |          | 1.272,956   | 6,749     | 1.742,857   | 8,500      |            | 21.758,297   | 128,588     | 27.453,760   | 128,588 |         |
| 407+0,000  |          | 1.272,956   | 5,414     | 1.748,271   | 10,000     |            | 21.758,297   | 121,630     | 27.575,390   | 121,630 |         |
| 408+0,000  |          | 1.272,956   | 3,551     | 1.751,822   | 10,000     |            | 21.758,297   | 89,650      | 27.665,040   | 89,650  |         |
| 409+0,000  |          | 1.272,956   | 3,399     | 1.755,221   | 10,000     |            | 21.758,297   | 69,500      | 27.734,540   | 69,500  |         |
| 410+0,000  |          | 1.272,956   | 4,224     | 1.759,445   | 10,000     |            | 21.758,297   | 76,230      | 27.810,770   | 76,230  |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 410+13,000 |          | 1.272,956   | 6,577     | 1.766,022   | 6,500      |            | 21.758,297   | 70,207      | 27.880,976   | 70,207  |         |
| 411+0,000  |          | 1.272,956   | 7,642     | 1.773,664   | 3,500      |            | 21.758,297   | 49,767      | 27.930,743   | 49,767  |         |
| 412+0,000  |          | 1.272,956   | 11,450    | 1.785,114   | 10,000     |            | 21.758,297   | 190,920     | 28.121,663   | 152,400 | 38,520  |
| 413+0,000  |          | 1.272,956   | 16,727    | 1.801,841   | 10,000     |            | 21.758,297   | 281,770     | 28.403,433   | 152,400 | 129,370 |
| 414+0,000  |          | 1.272,956   | 13,852    | 1.815,693   | 10,000     |            | 21.758,297   | 305,790     | 28.709,223   | 152,400 | 153,390 |
| 415+0,000  |          | 1.272,956   | 13,503    | 1.829,196   | 10,000     |            | 21.758,297   | 273,550     | 28.982,773   | 152,400 | 121,150 |
| 416+0,000  |          | 1.272,956   | 11,401    | 1.840,597   | 10,000     |            | 21.758,297   | 249,040     | 29.231,813   | 152,400 | 96,640  |
| 417+0,000  |          | 1.272,956   | 10,397    | 1.850,994   | 10,000     |            | 21.758,297   | 217,980     | 29.449,793   | 152,400 | 65,580  |
| 418+0,000  |          | 1.272,956   | 5,524     | 1.856,518   | 10,000     |            | 21.758,297   | 159,210     | 29.609,003   | 152,400 | 6,810   |
| 418+13,000 |          | 1.272,956   | 3,399     | 1.859,917   | 6,500      |            | 21.758,297   | 58,000      | 29.667,002   | 58,000  |         |
| 419+0,000  |          | 1.272,956   | 3,822     | 1.863,739   | 3,500      |            | 21.758,297   | 25,274      | 29.692,276   | 25,274  |         |
| 420+0,000  | 0,158    | 1.273,114   | 1,595     | 1.865,334   | 10,000     | 1,580      | 21.759,877   | 54,170      | 29.746,446   | 54,170  |         |
| 421+0,000  | 1,401    | 1.274,515   | 0,195     | 1.865,529   | 10,000     | 15,590     | 21.775,467   | 17,900      | 29.764,346   | 17,900  |         |
| 422+0,000  | 1,112    | 1.275,627   | 0,174     | 1.865,703   | 10,000     | 25,130     | 21.800,597   | 3,690       | 29.768,036   | 3,690   |         |
| 423+0,000  | 1,093    | 1.276,720   | 0,317     | 1.866,020   | 10,000     | 22,050     | 21.822,647   | 4,910       | 29.772,946   | 4,910   |         |
| 424+0,000  | 1,228    | 1.277,948   | 0,488     | 1.866,508   | 10,000     | 23,210     | 21.845,857   | 8,050       | 29.780,996   | 8,050   |         |
| 425+0,000  | 0,995    | 1.278,943   | 1,062     | 1.867,570   | 10,000     | 22,230     | 21.868,087   | 15,500      | 29.796,496   | 15,500  |         |
| 426+0,000  |          | 1.278,943   | 2,580     | 1.870,150   | 10,000     | 9,950      | 21.878,037   | 36,420      | 29.832,916   | 36,420  |         |
| 426+16,000 | 0,151    | 1.279,094   | 2,844     | 1.872,994   | 8,000      | 1,208      | 21.879,245   | 43,392      | 29.876,308   | 43,392  |         |
| 427+0,000  | 0,253    | 1.279,347   | 2,395     | 1.875,389   | 2,000      | 0,808      | 21.880,053   | 10,478      | 29.886,786   | 10,478  |         |
| 428+0,000  | 1,502    | 1.280,849   | 0,002     | 1.875,391   | 10,000     | 17,550     | 21.897,603   | 23,970      | 29.910,756   | 23,970  |         |
| 429+0,000  | 11,084   | 1.291,933   |           | 1.875,391   | 10,000     | 125,860    | 22.023,463   | 0,020       | 29.910,776   | 0,020   |         |
| 429+19,261 | 16,873   | 1.308,806   |           | 1.875,391   | 9,631      | 269,240    | 22.292,703   |             | 29.910,776   |         |         |
| 430+0,000  | 17,047   | 1.325,853   |           | 1.875,391   | 0,370      | 12,533     | 22.305,236   |             | 29.910,776   |         |         |
| 431+0,000  | 21,981   | 1.347,834   |           | 1.875,391   | 10,000     | 390,280    | 22.695,516   |             | 29.910,776   |         |         |
| 432+0,000  | 25,795   | 1.373,629   |           | 1.875,391   | 10,000     | 477,760    | 23.173,276   |             | 29.910,776   |         |         |
| 433+0,000  | 23,009   | 1.396,638   |           | 1.875,391   | 10,000     | 488,040    | 23.661,316   |             | 29.910,776   |         |         |
| 434+0,000  | 25,386   | 1.422,024   |           | 1.875,391   | 10,000     | 483,950    | 24.145,266   |             | 29.910,776   |         |         |
| 435+0,000  | 25,945   | 1.447,969   |           | 1.875,391   | 10,000     | 513,310    | 24.658,576   |             | 29.910,776   |         |         |
| 436+0,000  | 26,698   | 1.474,667   |           | 1.875,391   | 10,000     | 526,430    | 25.185,006   |             | 29.910,776   |         |         |
| 437+0,000  | 26,206   | 1.500,873   |           | 1.875,391   | 10,000     | 529,040    | 25.714,046   |             | 29.910,776   |         |         |
| 438+0,000  | 23,510   | 1.524,383   |           | 1.875,391   | 10,000     | 497,160    | 26.211,206   |             | 29.910,776   |         |         |
| 438+16,000 | 20,037   | 1.544,420   |           | 1.875,391   | 8,000      | 348,376    | 26.559,582   |             | 29.910,776   |         |         |
| 439+0,000  | 18,797   | 1.563,217   |           | 1.875,391   | 2,000      | 77,668     | 26.637,250   |             | 29.910,776   |         |         |
| 440+0,000  | 9,463    | 1.572,680   |           | 1.875,391   | 10,000     | 282,600    | 26.919,850   |             | 29.910,776   |         |         |
| 441+0,000  | 0,255    | 1.572,935   | 0,518     | 1.875,909   | 10,000     | 97,180     | 27.017,030   | 5,180       | 29.915,956   | 5,180   |         |
| 442+0,000  |          | 1.572,935   | 9,170     | 1.885,079   | 10,000     | 2,550      | 27.019,580   | 96,880      | 30.012,836   | 96,880  |         |
| 443+0,000  |          | 1.572,935   | 16,863    | 1.901,942   | 10,000     |            | 27.019,580   | 260,330     | 30.273,166   | 152,400 | 107,930 |
| 444+0,000  |          | 1.572,935   | 46,442    | 1.948,384   | 10,000     |            | 27.019,580   | 633,050     | 30.906,216   | 152,400 | 480,650 |
| 444+7,735  |          | 1.572,935   | 36,957    | 1.985,341   | 3,868      |            | 27.019,580   | 322,546     | 31.228,761   | 152,400 | 170,146 |
| 445+0,000  |          | 1.572,935   | 23,412    | 2.008,753   | 6,133      |            | 27.019,580   | 370,213     | 31.598,974   | 152,400 | 217,813 |
| 446+0,000  |          | 1.572,935   | 12,216    | 2.020,969   | 10,000     |            | 27.019,580   | 356,280     | 31.955,254   | 152,400 | 203,880 |
| 447+0,000  |          | 1.572,935   | 8,332     | 2.029,301   | 10,000     |            | 27.019,580   | 205,480     | 32.160,734   | 152,400 | 53,080  |
| 448+0,000  |          | 1.572,935   | 4,428     | 2.033,729   | 10,000     |            | 27.019,580   | 127,600     | 32.288,334   | 127,600 |         |
| 448+9,989  |          | 1.572,935   | 3,399     | 2.037,128   | 4,995      |            | 27.019,580   | 39,092      | 32.327,426   | 39,092  |         |
| 449+0,000  |          | 1.572,935   | 4,420     | 2.041,548   | 5,006      |            | 27.019,580   | 39,138      | 32.366,564   | 39,138  |         |
| 450+0,000  |          | 1.572,935   | 8,122     | 2.049,670   | 10,000     |            | 27.019,580   | 125,420     | 32.491,984   | 125,420 |         |
| 451+0,000  |          | 1.572,935   | 8,002     | 2.057,672   | 10,000     |            | 27.019,580   | 161,240     | 32.653,224   | 161,240 |         |
| 451+10,000 | 0,027    | 1.572,962   | 7,969     | 2.065,641   | 5,000      | 0,135      | 27.019,715   | 79,855      | 32.733,079   | 79,855  |         |
| 451+19,989 | 0,678    | 1.573,640   | 4,029     | 2.069,670   | 4,995      | 3,521      | 27.023,236   | 59,924      | 32.793,003   | 59,924  |         |
| 452+0,000  | 0,679    | 1.574,319   | 4,025     | 2.073,695   | 0,006      | 0,007      | 27.023,244   | 0,044       | 32.793,048   | 0,044   |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 453+0,000  | 10,103   | 1.584,422   |           | 2.073,695   | 10,000     | 107,820    | 27.131,064   | 40,250      | 32.833,298   | 40,250  |         |
| 454+0,000  | 19,780   | 1.604,202   |           | 2.073,695   | 10,000     | 298,830    | 27.429,894   |             | 32.833,298   |         |         |
| 454+0,011  | 19,783   | 1.623,985   |           | 2.073,695   | 0,006      | 0,218      | 27.430,111   |             | 32.833,298   |         |         |
| 455+0,000  | 16,768   | 1.640,753   |           | 2.073,695   | 9,995      | 365,309    | 27.795,420   |             | 32.833,298   |         |         |
| 455+1,832  | 16,233   | 1.656,986   |           | 2.073,695   | 0,916      | 30,229     | 27.825,649   |             | 32.833,298   |         |         |
| 456+0,000  | 11,310   | 1.668,296   |           | 2.073,695   | 9,084      | 250,201    | 28.075,850   |             | 32.833,298   |         |         |
| 457+0,000  | 5,483    | 1.673,779   |           | 2.073,695   | 10,000     | 167,930    | 28.243,780   |             | 32.833,298   |         |         |
| 457+10,011 | 3,472    | 1.677,251   | 0,048     | 2.073,743   | 5,006      | 44,824     | 28.288,604   | 0,240       | 32.833,538   | 0,240   |         |
| 458+0,000  | 1,732    | 1.678,983   | 0,688     | 2.074,431   | 4,995      | 25,991     | 28.314,595   | 3,676       | 32.837,214   | 3,676   |         |
| 459+0,000  | 0,701    | 1.679,684   | 1,546     | 2.075,977   | 10,000     | 24,330     | 28.338,925   | 22,340      | 32.859,554   | 22,340  |         |
| 460+0,000  |          | 1.679,684   | 6,919     | 2.082,896   | 10,000     | 7,010      | 28.345,935   | 84,650      | 32.944,204   | 84,650  |         |
| 461+0,000  |          | 1.679,684   | 6,471     | 2.089,367   | 10,000     |            | 28.345,935   | 133,900     | 33.078,104   | 133,900 |         |
| 462+0,000  |          | 1.679,684   | 5,435     | 2.094,802   | 10,000     |            | 28.345,935   | 119,060     | 33.197,164   | 119,060 |         |
| 462+10,000 |          | 1.679,684   | 6,762     | 2.101,564   | 5,000      |            | 28.345,935   | 60,985      | 33.258,149   | 60,985  |         |
| 463+0,000  |          | 1.679,684   | 6,137     | 2.107,701   | 5,000      |            | 28.345,935   | 64,495      | 33.322,644   | 64,495  |         |
| 464+0,000  |          | 1.679,684   | 7,040     | 2.114,741   | 10,000     |            | 28.345,935   | 131,770     | 33.454,414   | 131,770 |         |
| 465+0,000  |          | 1.679,684   | 7,629     | 2.122,370   | 10,000     |            | 28.345,935   | 146,690     | 33.601,104   | 146,690 |         |
| 466+0,000  |          | 1.679,684   | 9,368     | 2.131,738   | 10,000     |            | 28.345,935   | 169,970     | 33.771,074   | 152,400 | 17,570  |
| 467+0,000  |          | 1.679,684   | 10,452    | 2.142,190   | 10,000     |            | 28.345,935   | 198,200     | 33.969,274   | 152,400 | 45,800  |
| 468+0,000  |          | 1.679,684   | 10,772    | 2.152,962   | 10,000     |            | 28.345,935   | 212,240     | 34.181,514   | 152,400 | 59,840  |
| 468+17,425 |          | 1.679,684   | 16,607    | 2.169,569   | 8,713      |            | 28.345,935   | 238,540     | 34.420,053   | 152,400 | 86,140  |
| 469+0,000  |          | 1.679,684   | 16,926    | 2.186,495   | 1,288      |            | 28.345,935   | 43,174      | 34.463,227   | 43,174  |         |
| 469+10,000 |          | 1.679,684   | 18,578    | 2.205,073   | 5,000      |            | 28.345,935   | 177,520     | 34.640,747   | 152,400 | 25,120  |
| 470+0,000  |          | 1.679,684   | 18,858    | 2.223,931   | 5,000      |            | 28.345,935   | 187,180     | 34.827,927   | 152,400 | 34,780  |
| 471+0,000  |          | 1.679,684   | 22,415    | 2.246,346   | 10,000     |            | 28.345,935   | 412,730     | 35.240,657   | 152,400 | 260,330 |
| 472+0,000  |          | 1.679,684   | 20,754    | 2.267,100   | 10,000     |            | 28.345,935   | 431,690     | 35.672,347   | 152,400 | 279,290 |
| 473+0,000  |          | 1.679,684   | 28,352    | 2.295,452   | 10,000     |            | 28.345,935   | 491,060     | 36.163,407   | 152,400 | 338,660 |
| 474+0,000  |          | 1.679,684   | 19,406    | 2.314,858   | 10,000     |            | 28.345,935   | 477,580     | 36.640,987   | 152,400 | 325,180 |
| 475+0,000  |          | 1.679,684   | 16,765    | 2.331,623   | 10,000     |            | 28.345,935   | 361,710     | 37.002,697   | 152,400 | 209,310 |
| 476+0,000  |          | 1.679,684   | 18,906    | 2.350,529   | 10,000     |            | 28.345,935   | 356,710     | 37.359,407   | 152,400 | 204,310 |
| 477+0,000  |          | 1.679,684   | 19,746    | 2.370,275   | 10,000     |            | 28.345,935   | 386,520     | 37.745,927   | 152,400 | 234,120 |
| 478+0,000  |          | 1.679,684   | 19,069    | 2.389,344   | 10,000     |            | 28.345,935   | 388,150     | 38.134,077   | 152,400 | 235,750 |
| 479+0,000  |          | 1.679,684   | 10,603    | 2.399,947   | 10,000     |            | 28.345,935   | 296,720     | 38.430,797   | 152,400 | 144,320 |
| 480+0,000  |          | 1.679,684   | 10,536    | 2.410,483   | 10,000     |            | 28.345,935   | 211,390     | 38.642,187   | 152,400 | 58,990  |
| 481+0,000  | 0,104    | 1.679,788   | 5,724     | 2.416,207   | 10,000     | 1,040      | 28.346,975   | 162,600     | 38.804,787   | 152,400 | 10,200  |
| 482+0,000  | 1,415    | 1.681,203   | 2,727     | 2.418,934   | 10,000     | 15,190     | 28.362,165   | 84,510      | 38.889,297   | 84,510  |         |
| 483+0,000  | 2,141    | 1.683,344   | 0,805     | 2.419,739   | 10,000     | 35,560     | 28.397,725   | 35,320      | 38.924,617   | 35,320  |         |
| 484+0,000  | 3,408    | 1.686,752   |           | 2.419,739   | 10,000     | 55,490     | 28.453,215   | 8,050       | 38.932,667   | 8,050   |         |
| 485+0,000  | 6,265    | 1.693,017   | 0,169     | 2.419,908   | 10,000     | 96,730     | 28.549,945   | 1,690       | 38.934,357   | 1,690   |         |
| 486+0,000  | 7,681    | 1.700,698   |           | 2.419,908   | 10,000     | 139,460    | 28.689,405   | 1,690       | 38.936,047   | 1,690   |         |
| 487+0,000  | 4,715    | 1.705,413   | 0,442     | 2.420,350   | 10,000     | 123,960    | 28.813,365   | 4,420       | 38.940,467   | 4,420   |         |
| 488+0,000  | 2,813    | 1.708,226   | 1,211     | 2.421,561   | 10,000     | 75,280     | 28.888,645   | 16,530      | 38.956,997   | 16,530  |         |
| 489+0,000  | 0,483    | 1.708,709   | 2,738     | 2.424,299   | 10,000     | 32,960     | 28.921,605   | 39,490      | 38.996,487   | 39,490  |         |
| 490+0,000  | 2,001    | 1.710,710   | 3,550     | 2.427,849   | 10,000     | 24,840     | 28.946,445   | 62,880      | 39.059,367   | 62,880  |         |
| 491+0,000  | 2,348    | 1.713,058   | 1,949     | 2.429,798   | 10,000     | 43,490     | 28.989,935   | 54,990      | 39.114,357   | 54,990  |         |
| 491+13,000 | 1,117    | 1.714,175   | 0,278     | 2.430,076   | 6,500      | 22,523     | 29.012,458   | 14,476      | 39.128,833   | 14,476  |         |
| 492+0,000  | 1,963    | 1.716,138   | 0,747     | 2.430,823   | 3,500      | 10,780     | 29.023,238   | 3,588       | 39.132,420   | 3,588   |         |
| 493+0,000  | 3,723    | 1.719,861   | 0,100     | 2.430,923   | 10,000     | 56,860     | 29.080,098   | 8,470       | 39.140,890   | 8,470   |         |
| 494+0,000  | 4,422    | 1.724,283   | 0,006     | 2.430,929   | 10,000     | 81,450     | 29.161,548   | 1,060       | 39.141,950   | 1,060   |         |
| 495+0,000  | 7,115    | 1.731,398   |           | 2.430,929   | 10,000     | 115,370    | 29.276,918   | 0,060       | 39.142,010   | 0,060   |         |
| 496+0,000  | 7,162    | 1.738,560   |           | 2.430,929   | 10,000     | 142,770    | 29.419,688   |             | 39.142,010   |         |         |



### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN   |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|-----------|
| 497+0,000  | 9,266    | 1.747,826   |           | 2.430,929   | 10,000     | 164,280    | 29.583,968   |             | 39.142,010   |         |           |
| 498+0,000  | 10,462   | 1.758,288   |           | 2.430,929   | 10,000     | 197,280    | 29.781,248   |             | 39.142,010   |         |           |
| 499+0,000  | 7,016    | 1.765,304   |           | 2.430,929   | 10,000     | 174,780    | 29.956,028   |             | 39.142,010   |         |           |
| 500+0,000  | 4,114    | 1.769,418   |           | 2.430,929   | 10,000     | 111,300    | 30.067,328   |             | 39.142,010   |         |           |
| 501+0,000  | 1,402    | 1.770,820   | 0,014     | 2.430,943   | 10,000     | 55,160     | 30.122,488   | 0,140       | 39.142,150   | 0,140   |           |
| 501+13,000 | 0,433    | 1.771,253   | 0,270     | 2.431,213   | 6,500      | 11,928     | 30.134,415   | 1,846       | 39.143,996   | 1,846   |           |
| 502+0,000  | 0,254    | 1.771,507   | 0,994     | 2.432,207   | 3,500      | 2,405      | 30.136,820   | 4,424       | 39.148,420   | 4,424   |           |
| 503+0,000  |          | 1.771,507   | 3,789     | 2.435,996   | 10,000     | 2,540      | 30.139,360   | 47,830      | 39.196,250   | 47,830  |           |
| 504+0,000  |          | 1.771,507   | 4,720     | 2.440,716   | 10,000     |            | 30.139,360   | 85,090      | 39.281,340   | 85,090  |           |
| 505+0,000  |          | 1.771,507   | 6,634     | 2.447,350   | 10,000     |            | 30.139,360   | 113,540     | 39.394,880   | 113,540 |           |
| 506+0,000  |          | 1.771,507   | 6,623     | 2.453,973   | 10,000     |            | 30.139,360   | 132,570     | 39.527,450   | 132,570 |           |
| 507+0,000  |          | 1.771,507   | 8,601     | 2.462,574   | 10,000     |            | 30.139,360   | 152,240     | 39.679,690   | 152,240 |           |
| 508+0,000  |          | 1.771,507   | 10,544    | 2.473,118   | 10,000     |            | 30.139,360   | 191,450     | 39.871,140   | 152,400 | 39,050    |
| 509+0,000  |          | 1.771,507   | 13,058    | 2.486,176   | 10,000     |            | 30.139,360   | 236,020     | 40.107,160   | 152,400 | 83,620    |
| 510+0,000  |          | 1.771,507   | 7,595     | 2.493,771   | 10,000     |            | 30.139,360   | 206,530     | 40.313,690   | 152,400 | 54,130    |
| 511+0,000  | 0,264    | 1.771,771   | 0,980     | 2.494,751   | 10,000     | 2,640      | 30.142,000   | 85,750      | 40.399,440   | 85,750  |           |
| 512+0,000  | 13,396   | 1.785,167   |           | 2.494,751   | 10,000     | 136,600    | 30.278,600   | 9,800       | 40.409,240   | 9,800   |           |
| 513+0,000  | 30,016   | 1.815,183   |           | 2.494,751   | 10,000     | 434,120    | 30.712,720   |             | 40.409,240   |         |           |
| 514+0,000  | 31,073   | 1.846,256   |           | 2.494,751   | 10,000     | 610,890    | 31.323,610   |             | 40.409,240   |         |           |
| 515+0,000  | 21,281   | 1.867,537   |           | 2.494,751   | 10,000     | 523,540    | 31.847,150   |             | 40.409,240   |         |           |
| 516+0,000  | 16,162   | 1.883,699   |           | 2.494,751   | 10,000     | 374,430    | 32.221,580   |             | 40.409,240   |         |           |
| 517+0,000  | 11,096   | 1.894,795   |           | 2.494,751   | 10,000     | 272,580    | 32.494,160   |             | 40.409,240   |         |           |
| 518+0,000  | 8,751    | 1.903,546   |           | 2.494,751   | 10,000     | 198,470    | 32.692,630   |             | 40.409,240   |         |           |
| 519+0,000  | 18,788   | 1.922,334   |           | 2.494,751   | 10,000     | 275,390    | 32.968,020   |             | 40.409,240   |         |           |
| 520+0,000  | 28,012   | 1.950,346   |           | 2.494,751   | 10,000     | 468,000    | 33.436,020   |             | 40.409,240   |         |           |
| 521+0,000  | 41,613   | 1.991,959   |           | 2.494,751   | 10,000     | 696,250    | 34.132,270   |             | 40.409,240   |         |           |
| 522+0,000  | 37,647   | 2.029,606   |           | 2.494,751   | 10,000     | 792,600    | 34.924,870   |             | 40.409,240   |         |           |
| 523+0,000  | 25,063   | 2.054,669   |           | 2.494,751   | 10,000     | 627,100    | 35.551,970   |             | 40.409,240   |         |           |
| 524+0,000  | 3,623    | 2.058,292   |           | 2.494,751   | 10,000     | 286,860    | 35.838,830   |             | 40.409,240   |         |           |
| 525+0,000  |          | 2.058,292   | 16,346    | 2.511,097   | 10,000     | 36,230     | 35.875,060   | 163,460     | 40.572,700   | 152,400 | 11,060    |
| 526+0,000  |          | 2.058,292   | 42,823    | 2.553,920   | 10,000     |            | 35.875,060   | 591,690     | 41.164,390   | 152,400 | 439,290   |
| 527+0,000  |          | 2.058,292   | 62,698    | 2.616,618   | 10,000     |            | 35.875,060   | 1.055,210   | 42.219,600   | 152,400 | 902,810   |
| 528+0,000  |          | 2.058,292   | 54,693    | 2.671,311   | 10,000     |            | 35.875,060   | 1.173,910   | 43.393,510   | 152,400 | 1.021,510 |
| 529+0,000  |          | 2.058,292   | 29,409    | 2.700,720   | 10,000     |            | 35.875,060   | 841,020     | 44.234,530   | 152,400 | 688,620   |
| 530+0,000  | 1,842    | 2.060,134   | 1,735     | 2.702,455   | 10,000     | 18,420     | 35.893,480   | 311,440     | 44.545,970   | 152,400 | 159,040   |
| 531+0,000  | 25,194   | 2.085,328   |           | 2.702,455   | 10,000     | 270,360    | 36.163,840   | 17,350      | 44.563,320   | 17,350  |           |
| 532+0,000  | 51,256   | 2.136,584   |           | 2.702,455   | 10,000     | 764,500    | 36.928,340   |             | 44.563,320   |         |           |
| 533+0,000  | 61,313   | 2.197,897   |           | 2.702,455   | 10,000     | 1.125,690  | 38.054,030   |             | 44.563,320   |         |           |
| 534+0,000  | 66,233   | 2.264,130   |           | 2.702,455   | 10,000     | 1.275,460  | 39.329,490   |             | 44.563,320   |         |           |
| 534+14,591 | 59,706   | 2.323,836   |           | 2.702,455   | 7,296      | 918,788    | 40.248,278   |             | 44.563,320   |         |           |
| 534+14,598 | 59,700   | 2.383,536   |           | 2.702,455   | 0,004      | 0,418      | 40.248,696   |             | 44.563,320   |         |           |
| 535+0,000  | 55,806   | 2.439,342   |           | 2.702,455   | 2,701      | 311,982    | 40.560,677   |             | 44.563,320   |         |           |
| 536+0,000  | 38,177   | 2.477,519   |           | 2.702,455   | 10,000     | 939,830    | 41.500,507   |             | 44.563,320   |         |           |
| 537+0,000  | 15,027   | 2.492,546   |           | 2.702,455   | 10,000     | 532,040    | 42.032,547   |             | 44.563,320   |         |           |
| 538+0,000  |          | 2.492,546   | 6,931     | 2.709,386   | 10,000     | 150,270    | 42.182,817   | 69,310      | 44.632,630   | 69,310  |           |
| 539+0,000  |          | 2.492,546   | 34,491    | 2.743,877   | 10,000     |            | 42.182,817   | 414,220     | 45.046,850   | 152,400 | 261,820   |
| 540+0,000  |          | 2.492,546   | 61,194    | 2.805,071   | 10,000     |            | 42.182,817   | 956,850     | 46.003,700   | 152,400 | 804,450   |
| 541+0,000  |          | 2.492,546   | 79,422    | 2.884,493   | 10,000     |            | 42.182,817   | 1.406,160   | 47.409,860   | 152,400 | 1.253,760 |
| 542+0,000  |          | 2.492,546   | 96,549    | 2.981,042   | 10,000     |            | 42.182,817   | 1.759,710   | 49.169,570   | 152,400 | 1.607,310 |
| 543+0,000  |          | 2.492,546   | 89,010    | 3.070,052   | 10,000     |            | 42.182,817   | 1.855,590   | 51.025,160   | 152,400 | 1.703,190 |
| 544+0,000  |          | 2.492,546   | 62,147    | 3.132,199   | 10,000     |            | 42.182,817   | 1.511,570   | 52.536,730   | 152,400 | 1.359,170 |



### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN   |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|-----------|
| 545+0,000  |          | 2.492,546   | 43,105    | 3.175,304   | 10,000     |            | 42.182,817   | 1.052,520   | 53.589,250   | 152,400 | 900,120   |
| 546+0,000  |          | 2.492,546   | 20,019    | 3.195,323   | 10,000     |            | 42.182,817   | 631,240     | 54.220,490   | 152,400 | 478,840   |
| 547+0,000  | 0,225    | 2.492,771   | 2,046     | 3.197,369   | 10,000     | 2,250      | 42.185,067   | 220,650     | 54.441,140   | 152,400 | 68,250    |
| 548+0,000  | 10,522   | 2.503,293   |           | 3.197,369   | 10,000     | 107,470    | 42.292,537   | 20,460      | 54.461,600   | 20,460  |           |
| 549+0,000  | 30,149   | 2.533,442   |           | 3.197,369   | 10,000     | 406,710    | 42.699,247   |             | 54.461,600   |         |           |
| 549+10,000 | 41,449   | 2.574,891   |           | 3.197,369   | 5,000      | 357,990    | 43.057,237   |             | 54.461,600   |         |           |
| 550+0,000  | 49,434   | 2.624,325   |           | 3.197,369   | 5,000      | 454,415    | 43.511,652   |             | 54.461,600   |         |           |
| 551+0,000  | 56,606   | 2.680,931   |           | 3.197,369   | 10,000     | 1.060,400  | 44.572,052   |             | 54.461,600   |         |           |
| 552+0,000  | 48,188   | 2.729,119   |           | 3.197,369   | 10,000     | 1.047,940  | 45.619,992   |             | 54.461,600   |         |           |
| 553+0,000  | 24,797   | 2.753,916   |           | 3.197,369   | 10,000     | 729,850    | 46.349,842   |             | 54.461,600   |         |           |
| 554+0,000  | 7,194    | 2.761,110   |           | 3.197,369   | 10,000     | 319,910    | 46.669,752   |             | 54.461,600   |         |           |
| 554+8,256  | 3,063    | 2.764,173   | 0,275     | 3.197,644   | 4,128      | 42,341     | 46.712,093   | 1,135       | 54.462,735   | 1,135   |           |
| 555+0,000  | 1,330    | 2.765,503   | 5,584     | 3.203,228   | 5,872      | 25,796     | 46.737,889   | 34,404      | 54.497,139   | 34,404  |           |
| 556+0,000  |          | 2.765,503   | 9,960     | 3.213,188   | 10,000     | 13,300     | 46.751,189   | 155,440     | 54.652,579   | 152,400 | 3,040     |
| 556+10,000 |          | 2.765,503   | 6,107     | 3.219,295   | 5,000      |            | 46.751,189   | 80,335      | 54.732,914   | 80,335  |           |
| 557+0,000  |          | 2.765,503   | 5,630     | 3.224,925   | 5,000      |            | 46.751,189   | 58,685      | 54.791,599   | 58,685  |           |
| 558+0,000  |          | 2.765,503   | 6,655     | 3.231,580   | 10,000     |            | 46.751,189   | 122,850     | 54.914,449   | 122,850 |           |
| 559+0,000  |          | 2.765,503   | 5,037     | 3.236,617   | 10,000     |            | 46.751,189   | 116,920     | 55.031,369   | 116,920 |           |
| 560+0,000  |          | 2.765,503   | 3,125     | 3.239,742   | 10,000     |            | 46.751,189   | 81,620      | 55.112,989   | 81,620  |           |
| 561+0,000  |          | 2.765,503   | 2,037     | 3.241,779   | 10,000     |            | 46.751,189   | 51,620      | 55.164,609   | 51,620  |           |
| 562+0,000  |          | 2.765,503   | 5,446     | 3.247,225   | 10,000     |            | 46.751,189   | 74,830      | 55.239,439   | 74,830  |           |
| 563+0,000  |          | 2.765,503   | 9,847     | 3.257,072   | 10,000     |            | 46.751,189   | 152,930     | 55.392,369   | 152,400 | 0,530     |
| 564+0,000  |          | 2.765,503   | 19,497    | 3.276,569   | 10,000     |            | 46.751,189   | 293,440     | 55.685,809   | 152,400 | 141,040   |
| 565+0,000  |          | 2.765,503   | 34,677    | 3.311,246   | 10,000     |            | 46.751,189   | 541,740     | 56.227,549   | 152,400 | 389,340   |
| 566+0,000  |          | 2.765,503   | 47,630    | 3.358,876   | 10,000     |            | 46.751,189   | 823,070     | 57.050,619   | 152,400 | 670,670   |
| 567+0,000  |          | 2.765,503   | 67,989    | 3.426,865   | 10,000     |            | 46.751,189   | 1.156,190   | 58.206,809   | 152,400 | 1.003,790 |
| 568+0,000  |          | 2.765,503   | 76,811    | 3.503,676   | 10,000     |            | 46.751,189   | 1.448,000   | 59.654,809   | 152,400 | 1.295,600 |
| 569+0,000  |          | 2.765,503   | 48,470    | 3.552,146   | 10,000     |            | 46.751,189   | 1.252,810   | 60.907,619   | 152,400 | 1.100,410 |
| 570+0,000  |          | 2.765,503   | 29,610    | 3.581,756   | 10,000     |            | 46.751,189   | 780,800     | 61.688,419   | 152,400 | 628,400   |
| 571+0,000  |          | 2.765,503   | 8,712     | 3.590,468   | 10,000     |            | 46.751,189   | 383,220     | 62.071,639   | 152,400 | 230,820   |
| 572+0,000  | 9,533    | 2.775,036   |           | 3.590,468   | 10,000     | 95,330     | 46.846,519   | 87,120      | 62.158,759   | 87,120  |           |
| 573+0,000  | 19,901   | 2.794,937   |           | 3.590,468   | 10,000     | 294,340    | 47.140,859   |             | 62.158,759   |         |           |
| 574+0,000  | 36,880   | 2.831,817   |           | 3.590,468   | 10,000     | 567,810    | 47.708,669   |             | 62.158,759   |         |           |
| 575+0,000  | 45,249   | 2.877,066   |           | 3.590,468   | 10,000     | 821,290    | 48.529,959   |             | 62.158,759   |         |           |
| 576+0,000  | 49,097   | 2.926,163   |           | 3.590,468   | 10,000     | 943,460    | 49.473,419   |             | 62.158,759   |         |           |
| 577+0,000  | 54,253   | 2.980,416   |           | 3.590,468   | 10,000     | 1.033,500  | 50.506,919   |             | 62.158,759   |         |           |
| 578+0,000  | 45,197   | 3.025,613   |           | 3.590,468   | 10,000     | 994,500    | 51.501,419   |             | 62.158,759   |         |           |
| 579+0,000  | 32,533   | 3.058,146   |           | 3.590,468   | 10,000     | 777,300    | 52.278,719   |             | 62.158,759   |         |           |
| 580+0,000  | 15,314   | 3.073,460   |           | 3.590,468   | 10,000     | 478,470    | 52.757,189   |             | 62.158,759   |         |           |
| 581+0,000  | 0,771    | 3.074,231   | 7,355     | 3.597,823   | 10,000     | 160,850    | 52.918,039   | 73,550      | 62.232,309   | 73,550  |           |
| 581+6,000  | 0,290    | 3.074,521   | 10,502    | 3.608,325   | 3,000      | 3,183      | 52.921,222   | 53,571      | 62.285,880   | 53,571  |           |
| 582+0,000  |          | 3.074,521   | 22,238    | 3.630,563   | 7,000      | 2,030      | 52.923,252   | 229,180     | 62.515,060   | 152,400 | 76,780    |
| 582+17,491 |          | 3.074,521   | 32,184    | 3.662,747   | 8,746      |            | 52.923,252   | 475,948     | 62.991,008   | 152,400 | 323,548   |
| 583+0,000  |          | 3.074,521   | 33,229    | 3.695,976   | 1,255      |            | 52.923,252   | 82,061      | 63.073,068   | 82,061  |           |
| 584+0,000  |          | 3.074,521   | 42,166    | 3.738,142   | 10,000     |            | 52.923,252   | 753,950     | 63.827,018   | 152,400 | 601,550   |
| 585+0,000  |          | 3.074,521   | 51,626    | 3.789,768   | 10,000     |            | 52.923,252   | 937,920     | 64.764,938   | 152,400 | 785,520   |
| 586+0,000  |          | 3.074,521   | 47,286    | 3.837,054   | 10,000     |            | 52.923,252   | 989,120     | 65.754,058   | 152,400 | 836,720   |
| 587+0,000  |          | 3.074,521   | 30,793    | 3.867,847   | 10,000     |            | 52.923,252   | 780,790     | 66.534,848   | 152,400 | 628,390   |
| 588+0,000  |          | 3.074,521   | 18,996    | 3.886,843   | 10,000     |            | 52.923,252   | 497,890     | 67.032,738   | 152,400 | 345,490   |
| 589+0,000  |          | 3.074,521   | 13,414    | 3.900,257   | 10,000     |            | 52.923,252   | 324,100     | 67.356,838   | 152,400 | 171,700   |
| 590+0,000  |          | 3.074,521   | 9,452     | 3.909,709   | 10,000     |            | 52.923,252   | 228,660     | 67.585,498   | 152,400 | 76,260    |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 591+0,000  |          | 3.074,521   | 4,887     | 3.914,596   | 10,000     |            | 52.923,252   | 143,390     | 67.728,888   | 143,390 |         |
| 591+6,000  |          | 3.074,521   | 3,470     | 3.918,066   | 3,000      |            | 52.923,252   | 25,071      | 67.753,959   | 25,071  |         |
| 592+0,000  | 1,830    | 3.076,351   | 1,164     | 3.919,230   | 7,000      | 12,810     | 52.936,062   | 32,438      | 67.786,397   | 32,438  |         |
| 593+0,000  | 7,022    | 3.083,373   | 0,184     | 3.919,414   | 10,000     | 88,520     | 53.024,582   | 13,480      | 67.799,877   | 13,480  |         |
| 594+0,000  | 11,271   | 3.094,644   |           | 3.919,414   | 10,000     | 182,930    | 53.207,512   | 1,840       | 67.801,717   | 1,840   |         |
| 595+0,000  | 6,652    | 3.101,296   | 0,042     | 3.919,456   | 10,000     | 179,230    | 53.386,742   | 0,420       | 67.802,137   | 0,420   |         |
| 596+0,000  | 0,149    | 3.101,445   | 3,876     | 3.923,332   | 10,000     | 68,010     | 53.454,752   | 39,180      | 67.841,317   | 39,180  |         |
| 597+0,000  | 1,316    | 3.102,761   | 3,671     | 3.927,003   | 10,000     | 14,650     | 53.469,402   | 75,470      | 67.916,787   | 75,470  |         |
| 598+0,000  |          | 3.102,761   | 5,721     | 3.932,724   | 10,000     | 13,160     | 53.482,562   | 93,920      | 68.010,707   | 93,920  |         |
| 599+0,000  | 0,315    | 3.103,076   | 2,699     | 3.935,423   | 10,000     | 3,150      | 53.485,712   | 84,200      | 68.094,907   | 84,200  |         |
| 600+0,000  | 4,410    | 3.107,486   | 0,651     | 3.936,074   | 10,000     | 47,250     | 53.532,962   | 33,500      | 68.128,407   | 33,500  |         |
| 600+10,000 | 7,072    | 3.114,558   |           | 3.936,074   | 5,000      | 57,410     | 53.590,372   | 3,255       | 68.131,662   | 3,255   |         |
| 601+0,000  | 13,143   | 3.127,701   |           | 3.936,074   | 5,000      | 101,075    | 53.691,447   |             | 68.131,662   |         |         |
| 602+0,000  | 24,136   | 3.151,837   |           | 3.936,074   | 10,000     | 372,790    | 54.064,237   |             | 68.131,662   |         |         |
| 603+0,000  | 29,390   | 3.181,227   |           | 3.936,074   | 10,000     | 535,260    | 54.599,497   |             | 68.131,662   |         |         |
| 603+7,352  | 30,571   | 3.211,798   |           | 3.936,074   | 3,676      | 220,417    | 54.819,914   |             | 68.131,662   |         |         |
| 604+0,000  | 33,426   | 3.245,224   |           | 3.936,074   | 6,324      | 404,717    | 55.224,631   |             | 68.131,662   |         |         |
| 605+0,000  | 43,386   | 3.288,610   |           | 3.936,074   | 10,000     | 768,120    | 55.992,751   |             | 68.131,662   |         |         |
| 606+0,000  | 49,065   | 3.337,675   |           | 3.936,074   | 10,000     | 924,510    | 56.917,261   |             | 68.131,662   |         |         |
| 606+8,001  | 47,434   | 3.385,109   |           | 3.936,074   | 4,001      | 386,044    | 57.303,305   |             | 68.131,662   |         |         |
| 606+8,007  | 47,432   | 3.432,541   |           | 3.936,074   | 0,003      | 0,285      | 57.303,590   |             | 68.131,662   |         |         |
| 607+0,000  | 44,881   | 3.477,422   |           | 3.936,074   | 5,997      | 553,555    | 57.857,145   |             | 68.131,662   |         |         |
| 608+0,000  | 40,615   | 3.518,037   |           | 3.936,074   | 10,000     | 854,960    | 58.712,105   |             | 68.131,662   |         |         |
| 609+0,000  | 39,883   | 3.557,920   |           | 3.936,074   | 10,000     | 804,980    | 59.517,085   |             | 68.131,662   |         |         |
| 610+0,000  | 31,060   | 3.588,980   |           | 3.936,074   | 10,000     | 709,430    | 60.226,515   |             | 68.131,662   |         |         |
| 611+0,000  | 21,172   | 3.610,152   |           | 3.936,074   | 10,000     | 522,320    | 60.748,835   |             | 68.131,662   |         |         |
| 612+0,000  | 10,264   | 3.620,416   |           | 3.936,074   | 10,000     | 314,360    | 61.063,195   |             | 68.131,662   |         |         |
| 613+0,000  | 7,026    | 3.627,442   | 0,471     | 3.936,545   | 10,000     | 172,900    | 61.236,095   | 4,710       | 68.136,372   | 4,710   |         |
| 614+0,000  | 3,587    | 3.631,029   | 5,577     | 3.942,122   | 10,000     | 106,130    | 61.342,225   | 60,480      | 68.196,852   | 60,480  |         |
| 615+0,000  |          | 3.631,029   | 8,721     | 3.950,843   | 10,000     | 35,870     | 61.378,095   | 142,980     | 68.339,832   | 142,980 |         |
| 616+0,000  |          | 3.631,029   | 18,247    | 3.969,090   | 10,000     |            | 61.378,095   | 269,680     | 68.609,512   | 152,400 | 117,280 |
| 617+0,000  |          | 3.631,029   | 33,341    | 4.002,431   | 10,000     |            | 61.378,095   | 515,880     | 69.125,392   | 152,400 | 363,480 |
| 618+0,000  |          | 3.631,029   | 38,866    | 4.041,297   | 10,000     |            | 61.378,095   | 722,070     | 69.847,462   | 152,400 | 569,670 |
| 619+0,000  |          | 3.631,029   | 42,458    | 4.083,755   | 10,000     |            | 61.378,095   | 813,240     | 70.660,702   | 152,400 | 660,840 |
| 619+17,714 |          | 3.631,029   | 46,435    | 4.130,190   | 8,857      |            | 61.378,095   | 787,325     | 71.448,028   | 152,400 | 634,925 |
| 620+0,000  |          | 3.631,029   | 45,746    | 4.175,936   | 1,143      |            | 61.378,095   | 105,363     | 71.553,391   | 105,363 |         |
| 621+0,000  |          | 3.631,029   | 40,917    | 4.216,853   | 10,000     |            | 61.378,095   | 866,630     | 72.420,021   | 152,400 | 714,230 |
| 622+0,000  |          | 3.631,029   | 28,556    | 4.245,409   | 10,000     |            | 61.378,095   | 694,730     | 73.114,751   | 152,400 | 542,330 |
| 623+0,000  |          | 3.631,029   | 20,416    | 4.265,825   | 10,000     |            | 61.378,095   | 489,720     | 73.604,471   | 152,400 | 337,320 |
| 624+0,000  |          | 3.631,029   | 15,404    | 4.281,229   | 10,000     |            | 61.378,095   | 358,200     | 73.962,671   | 152,400 | 205,800 |
| 625+0,000  |          | 3.631,029   | 6,880     | 4.288,109   | 10,000     |            | 61.378,095   | 222,840     | 74.185,511   | 152,400 | 70,440  |
| 626+0,000  | 0,128    | 3.631,157   | 2,224     | 4.290,333   | 10,000     | 1,280      | 61.379,375   | 91,040      | 74.276,551   | 91,040  |         |
| 627+0,000  | 3,220    | 3.634,377   | 0,091     | 4.290,424   | 10,000     | 33,480     | 61.412,855   | 23,150      | 74.299,701   | 23,150  |         |
| 628+0,000  | 11,863   | 3.646,240   |           | 4.290,424   | 10,000     | 150,830    | 61.563,685   | 0,910       | 74.300,611   | 0,910   |         |
| 629+0,000  | 24,596   | 3.670,836   |           | 4.290,424   | 10,000     | 364,590    | 61.928,275   |             | 74.300,611   |         |         |
| 630+0,000  | 22,620   | 3.693,456   |           | 4.290,424   | 10,000     | 472,160    | 62.400,435   |             | 74.300,611   |         |         |
| 631+0,000  | 8,425    | 3.701,881   |           | 4.290,424   | 10,000     | 310,450    | 62.710,885   |             | 74.300,611   |         |         |
| 632+0,000  |          | 3.701,881   | 1,552     | 4.291,976   | 10,000     | 84,250     | 62.795,135   | 15,520      | 74.316,131   | 15,520  |         |
| 633+0,000  | 0,497    | 3.702,378   | 1,923     | 4.293,899   | 10,000     | 4,970      | 62.800,105   | 34,750      | 74.350,881   | 34,750  |         |
| 634+0,000  | 5,678    | 3.708,056   |           | 4.293,899   | 10,000     | 61,750     | 62.861,855   | 19,230      | 74.370,111   | 19,230  |         |
| 634+2,057  | 6,132    | 3.714,188   |           | 4.293,899   | 1,029      | 12,147     | 62.874,001   |             | 74.370,111   |         |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 635+0,000  | 22,014   | 3.736,202   |           | 4.293,899   | 8,972      | 252,512    | 63.126,513   |             | 74.370,111   |         |         |
| 636+0,000  | 33,532   | 3.769,734   |           | 4.293,899   | 10,000     | 555,460    | 63.681,973   |             | 74.370,111   |         |         |
| 637+0,000  | 33,405   | 3.803,139   |           | 4.293,899   | 10,000     | 669,370    | 64.351,343   |             | 74.370,111   |         |         |
| 638+0,000  | 28,524   | 3.831,663   |           | 4.293,899   | 10,000     | 619,290    | 64.970,633   |             | 74.370,111   |         |         |
| 639+0,000  | 18,527   | 3.850,190   |           | 4.293,899   | 10,000     | 470,510    | 65.441,143   |             | 74.370,111   |         |         |
| 640+0,000  | 10,756   | 3.860,946   |           | 4.293,899   | 10,000     | 292,830    | 65.733,973   |             | 74.370,111   |         |         |
| 641+0,000  | 2,299    | 3.863,245   | 0,902     | 4.294,801   | 10,000     | 130,550    | 65.864,523   | 9,020       | 74.379,131   | 9,020   |         |
| 642+0,000  | 0,718    | 3.863,963   | 7,264     | 4.302,065   | 10,000     | 30,170     | 65.894,693   | 81,660      | 74.460,791   | 81,660  |         |
| 643+0,000  |          | 3.863,963   | 14,771    | 4.316,836   | 10,000     | 7,180      | 65.901,873   | 220,350     | 74.681,141   | 152,400 | 67,950  |
| 644+0,000  |          | 3.863,963   | 22,957    | 4.339,793   | 10,000     |            | 65.901,873   | 377,280     | 75.058,421   | 152,400 | 224,880 |
| 645+0,000  |          | 3.863,963   | 30,282    | 4.370,075   | 10,000     |            | 65.901,873   | 532,390     | 75.590,811   | 152,400 | 379,990 |
| 645+0,763  |          | 3.863,963   | 30,512    | 4.400,587   | 0,382      |            | 65.901,873   | 23,193      | 75.614,004   | 23,193  |         |
| 646+0,000  |          | 3.863,963   | 34,335    | 4.434,922   | 9,619      |            | 65.901,873   | 623,731     | 76.237,734   | 152,400 | 471,331 |
| 647+0,000  |          | 3.863,963   | 31,614    | 4.466,536   | 10,000     |            | 65.901,873   | 659,490     | 76.897,224   | 152,400 | 507,090 |
| 648+0,000  |          | 3.863,963   | 29,948    | 4.496,484   | 10,000     |            | 65.901,873   | 615,620     | 77.512,844   | 152,400 | 463,220 |
| 649+0,000  |          | 3.863,963   | 22,265    | 4.518,749   | 10,000     |            | 65.901,873   | 522,130     | 78.034,974   | 152,400 | 369,730 |
| 650+0,000  |          | 3.863,963   | 14,226    | 4.532,975   | 10,000     |            | 65.901,873   | 364,910     | 78.399,884   | 152,400 | 212,510 |
| 650+9,989  |          | 3.863,963   | 10,119    | 4.543,094   | 4,995      |            | 65.901,873   | 121,591     | 78.521,476   | 121,591 |         |
| 651+0,000  | 0,281    | 3.864,244   | 10,187    | 4.553,281   | 5,006      | 1,407      | 65.903,279   | 101,642     | 78.623,117   | 101,642 |         |
| 652+0,000  | 3,379    | 3.867,623   | 3,306     | 4.556,587   | 10,000     | 36,600     | 65.939,879   | 134,930     | 78.758,047   | 134,930 |         |
| 652+5,000  | 3,278    | 3.870,901   | 1,854     | 4.558,441   | 2,500      | 16,643     | 65.956,522   | 12,900      | 78.770,947   | 12,900  |         |
| 653+0,000  | 10,509   | 3.881,410   | 0,312     | 4.558,753   | 7,500      | 103,403    | 66.059,924   | 16,245      | 78.787,192   | 16,245  |         |
| 653+19,989 | 20,424   | 3.901,834   |           | 4.558,753   | 9,995      | 309,160    | 66.369,084   | 3,118       | 78.790,310   | 3,118   |         |
| 654+0,000  | 20,424   | 3.922,258   |           | 4.558,753   | 0,006      | 0,225      | 66.369,309   |             | 78.790,310   |         |         |
| 655+0,000  | 18,799   | 3.941,057   |           | 4.558,753   | 10,000     | 392,230    | 66.761,539   |             | 78.790,310   |         |         |
| 656+0,000  | 17,983   | 3.959,040   |           | 4.558,753   | 10,000     | 367,820    | 67.129,359   |             | 78.790,310   |         |         |
| 657+0,000  | 15,985   | 3.975,025   |           | 4.558,753   | 10,000     | 339,680    | 67.469,039   |             | 78.790,310   |         |         |
| 658+0,000  | 17,744   | 3.992,769   |           | 4.558,753   | 10,000     | 337,290    | 67.806,329   |             | 78.790,310   |         |         |
| 659+0,000  | 13,140   | 4.005,909   |           | 4.558,753   | 10,000     | 308,840    | 68.115,169   |             | 78.790,310   |         |         |
| 659+13,383 | 11,662   | 4.017,571   |           | 4.558,753   | 6,692      | 165,963    | 68.281,132   |             | 78.790,310   |         |         |
| 660+0,000  | 7,212    | 4.024,783   |           | 4.558,753   | 3,309      | 62,445     | 68.343,576   |             | 78.790,310   |         |         |
| 661+0,000  | 4,500    | 4.029,283   | 0,447     | 4.559,200   | 10,000     | 117,120    | 68.460,696   | 4,470       | 78.794,780   | 4,470   |         |
| 662+0,000  | 5,807    | 4.035,090   | 0,215     | 4.559,415   | 10,000     | 103,070    | 68.563,766   | 6,620       | 78.801,400   | 6,620   |         |
| 662+5,000  | 6,715    | 4.041,805   | 0,285     | 4.559,700   | 2,500      | 31,305     | 68.595,071   | 1,250       | 78.802,650   | 1,250   |         |
| 663+0,000  | 5,930    | 4.047,735   | 1,075     | 4.560,775   | 7,500      | 94,838     | 68.689,909   | 10,200      | 78.812,850   | 10,200  |         |
| 664+0,000  | 3,240    | 4.050,975   | 1,435     | 4.562,210   | 10,000     | 91,700     | 68.781,609   | 25,100      | 78.837,950   | 25,100  |         |
| 665+0,000  | 1,536    | 4.052,511   | 2,222     | 4.564,432   | 10,000     | 47,760     | 68.829,369   | 36,570      | 78.874,520   | 36,570  |         |
| 666+0,000  | 1,602    | 4.054,113   | 0,868     | 4.565,300   | 10,000     | 31,380     | 68.860,749   | 30,900      | 78.905,420   | 30,900  |         |
| 667+0,000  | 2,601    | 4.056,714   | 0,384     | 4.565,684   | 10,000     | 42,030     | 68.902,779   | 12,520      | 78.917,940   | 12,520  |         |
| 667+14,211 | 4,802    | 4.061,516   | 0,137     | 4.565,821   | 7,106      | 52,602     | 68.955,381   | 3,702       | 78.921,642   | 3,702   |         |
| 668+0,000  | 5,265    | 4.066,781   | 0,184     | 4.566,005   | 2,895      | 29,139     | 68.984,520   | 0,929       | 78.922,572   | 0,929   |         |
| 669+0,000  | 1,396    | 4.068,177   | 0,048     | 4.566,053   | 10,000     | 66,610     | 69.051,130   | 2,320       | 78.924,892   | 2,320   |         |
| 670+0,000  | 0,493    | 4.068,670   | 0,883     | 4.566,936   | 10,000     | 18,890     | 69.070,020   | 9,310       | 78.934,202   | 9,310   |         |
| 670+5,689  | 1,044    | 4.069,714   | 0,441     | 4.567,377   | 2,845      | 4,372      | 69.074,392   | 3,766       | 78.937,968   | 3,766   |         |
| 671+0,000  | 0,138    | 4.069,852   | 1,029     | 4.568,406   | 7,156      | 8,458      | 69.082,849   | 10,519      | 78.948,486   | 10,519  |         |
| 671+4,211  |          | 4.069,852   | 2,609     | 4.571,015   | 2,106      | 0,291      | 69.083,140   | 7,660       | 78.956,146   | 7,660   |         |
| 672+0,000  |          | 4.069,852   | 2,758     | 4.573,773   | 7,895      |            | 69.083,140   | 42,370      | 78.998,516   | 42,370  |         |
| 673+0,000  |          | 4.069,852   | 5,283     | 4.579,056   | 10,000     |            | 69.083,140   | 80,410      | 79.078,926   | 80,410  |         |
| 674+0,000  |          | 4.069,852   | 3,754     | 4.582,810   | 10,000     |            | 69.083,140   | 90,370      | 79.169,296   | 90,370  |         |
| 675+0,000  |          | 4.069,852   | 7,291     | 4.590,101   | 10,000     |            | 69.083,140   | 110,450     | 79.279,746   | 110,450 |         |
| 676+0,000  |          | 4.069,852   | 3,383     | 4.593,484   | 10,000     |            | 69.083,140   | 106,740     | 79.386,486   | 106,740 |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 677+0,000  |          | 4.069,852   | 5,685     | 4.599,169   | 10,000     |            | 69.083,140   | 90,680      | 79.477,166   | 90,680  |         |
| 677+10,000 |          | 4.069,852   | 4,343     | 4.603,512   | 5,000      |            | 69.083,140   | 50,140      | 79.527,306   | 50,140  |         |
| 678+0,000  | 0,949    | 4.070,801   | 2,915     | 4.606,427   | 5,000      | 4,745      | 69.087,885   | 36,290      | 79.563,596   | 36,290  |         |
| 679+0,000  | 4,419    | 4.075,220   |           | 4.606,427   | 10,000     | 53,680     | 69.141,565   | 29,150      | 79.592,746   | 29,150  |         |
| 680+0,000  | 1,432    | 4.076,652   | 0,479     | 4.606,906   | 10,000     | 58,510     | 69.200,075   | 4,790       | 79.597,536   | 4,790   |         |
| 681+0,000  | 2,250    | 4.078,902   | 0,202     | 4.607,108   | 10,000     | 36,820     | 69.236,895   | 6,810       | 79.604,346   | 6,810   |         |
| 682+0,000  | 5,575    | 4.084,477   |           | 4.607,108   | 10,000     | 78,250     | 69.315,145   | 2,020       | 79.606,366   | 2,020   |         |
| 683+0,000  | 6,569    | 4.091,046   |           | 4.607,108   | 10,000     | 121,440    | 69.436,585   |             | 79.606,366   |         |         |
| 683+3,992  | 6,856    | 4.097,902   |           | 4.607,108   | 1,996      | 26,796     | 69.463,381   |             | 79.606,366   |         |         |
| 683+14,813 | 7,061    | 4.104,963   |           | 4.607,108   | 5,411      | 75,305     | 69.538,686   |             | 79.606,366   |         |         |
| 683+14,823 | 7,060    | 4.112,023   |           | 4.607,108   | 0,005      | 0,071      | 69.538,757   |             | 79.606,366   |         |         |
| 684+0,000  | 6,933    | 4.118,956   |           | 4.607,108   | 2,589      | 36,221     | 69.574,978   |             | 79.606,366   |         |         |
| 685+0,000  | 9,618    | 4.128,574   | 0,008     | 4.607,116   | 10,000     | 165,510    | 69.740,488   | 0,080       | 79.606,446   | 0,080   |         |
| 686+0,000  | 5,661    | 4.134,235   | 0,015     | 4.607,131   | 10,000     | 152,790    | 69.893,278   | 0,230       | 79.606,676   | 0,230   |         |
| 687+0,000  | 7,635    | 4.141,870   |           | 4.607,131   | 10,000     | 132,960    | 70.026,238   | 0,150       | 79.606,826   | 0,150   |         |
| 688+0,000  | 5,152    | 4.147,022   | 0,003     | 4.607,134   | 10,000     | 127,870    | 70.154,108   | 0,030       | 79.606,856   | 0,030   |         |
| 689+0,000  | 4,125    | 4.151,147   | 0,143     | 4.607,277   | 10,000     | 92,770     | 70.246,878   | 1,460       | 79.608,316   | 1,460   |         |
| 690+0,000  | 6,616    | 4.157,763   | 0,013     | 4.607,290   | 10,000     | 107,410    | 70.354,288   | 1,560       | 79.609,876   | 1,560   |         |
| 690+10,000 | 5,028    | 4.162,791   |           | 4.607,290   | 5,000      | 58,220     | 70.412,508   | 0,065       | 79.609,941   | 0,065   |         |
| 691+0,000  | 5,448    | 4.168,239   |           | 4.607,290   | 5,000      | 52,380     | 70.464,888   |             | 79.609,941   |         |         |
| 692+0,000  | 2,554    | 4.170,793   | 0,463     | 4.607,753   | 10,000     | 80,020     | 70.544,908   | 4,630       | 79.614,571   | 4,630   |         |
| 693+0,000  | 1,402    | 4.172,195   | 3,856     | 4.611,609   | 10,000     | 39,560     | 70.584,468   | 43,190      | 79.657,761   | 43,190  |         |
| 694+0,000  |          | 4.172,195   | 7,861     | 4.619,470   | 10,000     | 14,020     | 70.598,488   | 117,170     | 79.774,931   | 117,170 |         |
| 695+0,000  |          | 4.172,195   | 9,755     | 4.629,225   | 10,000     |            | 70.598,488   | 176,160     | 79.951,091   | 152,400 | 23,760  |
| 696+0,000  |          | 4.172,195   | 15,320    | 4.644,545   | 10,000     |            | 70.598,488   | 250,750     | 80.201,841   | 152,400 | 98,350  |
| 697+0,000  |          | 4.172,195   | 21,807    | 4.666,352   | 10,000     |            | 70.598,488   | 371,270     | 80.573,111   | 152,400 | 218,870 |
| 698+0,000  |          | 4.172,195   | 25,724    | 4.692,076   | 10,000     |            | 70.598,488   | 475,310     | 81.048,421   | 152,400 | 322,910 |
| 699+0,000  |          | 4.172,195   | 39,921    | 4.731,997   | 10,000     |            | 70.598,488   | 656,450     | 81.704,871   | 152,400 | 504,050 |
| 699+15,891 |          | 4.172,195   | 32,511    | 4.764,508   | 7,946      |            | 70.598,488   | 575,508     | 82.280,379   | 152,400 | 423,108 |
| 700+0,000  |          | 4.172,195   | 30,254    | 4.794,762   | 2,055      |            | 70.598,488   | 128,951     | 82.409,330   | 128,951 |         |
| 701+0,000  |          | 4.172,195   | 18,303    | 4.813,065   | 10,000     |            | 70.598,488   | 485,570     | 82.894,900   | 152,400 | 333,170 |
| 702+0,000  | 0,935    | 4.173,130   | 1,393     | 4.814,458   | 10,000     | 9,350      | 70.607,838   | 196,960     | 83.091,860   | 152,400 | 44,560  |
| 703+0,000  | 20,160   | 4.193,290   |           | 4.814,458   | 10,000     | 210,950    | 70.818,788   | 13,930      | 83.105,790   | 13,930  |         |
| 704+0,000  | 37,869   | 4.231,159   |           | 4.814,458   | 10,000     | 580,290    | 71.399,078   |             | 83.105,790   |         |         |
| 705+0,000  | 42,965   | 4.274,124   |           | 4.814,458   | 10,000     | 808,340    | 72.207,418   |             | 83.105,790   |         |         |
| 706+0,000  | 37,085   | 4.311,209   |           | 4.814,458   | 10,000     | 800,500    | 73.007,918   |             | 83.105,790   |         |         |
| 707+0,000  | 28,708   | 4.339,917   |           | 4.814,458   | 10,000     | 657,930    | 73.665,848   |             | 83.105,790   |         |         |
| 708+0,000  | 19,050   | 4.358,967   |           | 4.814,458   | 10,000     | 477,580    | 74.143,428   |             | 83.105,790   |         |         |
| 708+10,000 | 14,784   | 4.373,751   |           | 4.814,458   | 5,000      | 169,170    | 74.312,598   |             | 83.105,790   |         |         |
| 709+0,000  | 10,881   | 4.384,632   |           | 4.814,458   | 5,000      | 128,325    | 74.440,923   |             | 83.105,790   |         |         |
| 710+0,000  | 5,861    | 4.390,493   |           | 4.814,458   | 10,000     | 167,420    | 74.608,343   |             | 83.105,790   |         |         |
| 711+0,000  | 6,634    | 4.397,127   |           | 4.814,458   | 10,000     | 124,950    | 74.733,293   |             | 83.105,790   |         |         |
| 712+0,000  | 7,752    | 4.404,879   |           | 4.814,458   | 10,000     | 143,860    | 74.877,153   |             | 83.105,790   |         |         |
| 713+0,000  | 8,683    | 4.413,562   |           | 4.814,458   | 10,000     | 164,350    | 75.041,503   |             | 83.105,790   |         |         |
| 714+0,000  | 12,186   | 4.425,748   |           | 4.814,458   | 10,000     | 208,690    | 75.250,193   |             | 83.105,790   |         |         |
| 715+0,000  | 10,696   | 4.436,444   |           | 4.814,458   | 10,000     | 228,820    | 75.479,013   |             | 83.105,790   |         |         |
| 715+8,532  | 11,506   | 4.447,950   |           | 4.814,458   | 4,266      | 94,714     | 75.573,726   |             | 83.105,790   |         |         |
| 715+8,539  | 11,507   | 4.459,457   |           | 4.814,458   | 0,003      | 0,069      | 75.573,795   |             | 83.105,790   |         |         |
| 716+0,000  | 9,726    | 4.469,183   |           | 4.814,458   | 5,731      | 121,676    | 75.695,471   |             | 83.105,790   |         |         |
| 717+0,000  | 5,181    | 4.474,364   |           | 4.814,458   | 10,000     | 149,070    | 75.844,541   |             | 83.105,790   |         |         |
| 718+0,000  | 1,896    | 4.476,260   | 0,195     | 4.814,653   | 10,000     | 70,770     | 75.915,311   | 1,950       | 83.107,740   | 1,950   |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 718+10,000 | 0,558    | 4.476,818   | 0,824     | 4.815,477   | 5,000      | 12,270     | 75.927,581   | 5,095       | 83.112,835   | 5,095   |         |
| 719+0,000  | 0,452    | 4.477,270   | 1,484     | 4.816,961   | 5,000      | 5,050      | 75.932,631   | 11,540      | 83.124,375   | 11,540  |         |
| 720+0,000  |          | 4.477,270   | 5,279     | 4.822,240   | 10,000     | 4,520      | 75.937,151   | 67,630      | 83.192,005   | 67,630  |         |
| 721+0,000  |          | 4.477,270   | 10,121    | 4.832,361   | 10,000     |            | 75.937,151   | 154,000     | 83.346,005   | 152,400 | 1,600   |
| 722+0,000  |          | 4.477,270   | 12,181    | 4.844,542   | 10,000     |            | 75.937,151   | 223,020     | 83.569,025   | 152,400 | 70,620  |
| 723+0,000  |          | 4.477,270   | 13,969    | 4.858,511   | 10,000     |            | 75.937,151   | 261,500     | 83.830,525   | 152,400 | 109,100 |
| 724+0,000  |          | 4.477,270   | 13,512    | 4.872,023   | 10,000     |            | 75.937,151   | 274,810     | 84.105,335   | 152,400 | 122,410 |
| 725+0,000  |          | 4.477,270   | 14,196    | 4.886,219   | 10,000     |            | 75.937,151   | 277,080     | 84.382,415   | 152,400 | 124,680 |
| 726+0,000  |          | 4.477,270   | 9,994     | 4.896,213   | 10,000     |            | 75.937,151   | 241,900     | 84.624,315   | 152,400 | 89,500  |
| 727+0,000  |          | 4.477,270   | 8,355     | 4.904,568   | 10,000     |            | 75.937,151   | 183,490     | 84.807,805   | 152,400 | 31,090  |
| 728+0,000  |          | 4.477,270   | 6,416     | 4.910,984   | 10,000     |            | 75.937,151   | 147,710     | 84.955,515   | 147,710 |         |
| 729+0,000  |          | 4.477,270   | 4,900     | 4.915,884   | 10,000     |            | 75.937,151   | 113,160     | 85.068,675   | 113,160 |         |
| 730+0,000  |          | 4.477,270   | 5,097     | 4.920,981   | 10,000     |            | 75.937,151   | 99,970      | 85.168,645   | 99,970  |         |
| 731+0,000  |          | 4.477,270   | 3,985     | 4.924,966   | 10,000     |            | 75.937,151   | 90,820      | 85.259,465   | 90,820  |         |
| 732+0,000  | 0,155    | 4.477,425   | 2,653     | 4.927,619   | 10,000     | 1,550      | 75.938,701   | 66,380      | 85.325,845   | 66,380  |         |
| 732+0,325  | 0,146    | 4.477,571   | 2,630     | 4.930,249   | 0,163      | 0,049      | 75.938,750   | 0,858       | 85.326,704   | 0,858   |         |
| 733+0,000  | 0,662    | 4.478,233   | 0,581     | 4.930,830   | 9,838      | 7,949      | 75.946,699   | 31,588      | 85.358,292   | 31,588  |         |
| 734+0,000  | 2,722    | 4.480,955   |           | 4.930,830   | 10,000     | 33,840     | 75.980,539   | 5,810       | 85.364,102   | 5,810   |         |
| 735+0,000  | 6,020    | 4.486,975   |           | 4.930,830   | 10,000     | 87,420     | 76.067,959   |             | 85.364,102   |         |         |
| 736+0,000  | 7,010    | 4.493,985   |           | 4.930,830   | 10,000     | 130,300    | 76.198,259   |             | 85.364,102   |         |         |
| 737+0,000  | 9,419    | 4.503,404   |           | 4.930,830   | 10,000     | 164,290    | 76.362,549   |             | 85.364,102   |         |         |
| 738+0,000  | 9,954    | 4.513,358   |           | 4.930,830   | 10,000     | 193,730    | 76.556,279   |             | 85.364,102   |         |         |
| 739+0,000  | 9,029    | 4.522,387   |           | 4.930,830   | 10,000     | 189,830    | 76.746,109   |             | 85.364,102   |         |         |
| 740+0,000  | 6,430    | 4.528,817   |           | 4.930,830   | 10,000     | 154,590    | 76.900,699   |             | 85.364,102   |         |         |
| 741+0,000  | 4,859    | 4.533,676   |           | 4.930,830   | 10,000     | 112,890    | 77.013,589   |             | 85.364,102   |         |         |
| 742+0,000  | 1,854    | 4.535,530   | 0,458     | 4.931,288   | 10,000     | 67,130     | 77.080,719   | 4,580       | 85.368,682   | 4,580   |         |
| 742+10,000 | 2,062    | 4.537,592   | 5,396     | 4.936,684   | 5,000      | 19,580     | 77.100,299   | 29,270      | 85.397,952   | 29,270  |         |
| 743+0,000  | 0,924    | 4.538,516   | 9,547     | 4.946,231   | 5,000      | 14,930     | 77.115,229   | 74,715      | 85.472,667   | 74,715  |         |
| 744+0,000  |          | 4.538,516   | 23,443    | 4.969,674   | 10,000     | 9,240      | 77.124,469   | 329,900     | 85.802,567   | 152,400 | 177,500 |
| 745+0,000  |          | 4.538,516   | 35,416    | 5.005,090   | 10,000     |            | 77.124,469   | 588,590     | 86.391,157   | 152,400 | 436,190 |
| 745+16,588 |          | 4.538,516   | 38,021    | 5.043,111   | 8,294      |            | 77.124,469   | 609,086     | 87.000,243   | 152,400 | 456,686 |
| 746+0,000  |          | 4.538,516   | 37,177    | 5.080,288   | 1,706      |            | 77.124,469   | 128,288     | 87.128,531   | 128,288 |         |
| 747+0,000  |          | 4.538,516   | 22,860    | 5.103,148   | 10,000     |            | 77.124,469   | 600,370     | 87.728,901   | 152,400 | 447,970 |
| 748+0,000  |          | 4.538,516   | 9,832     | 5.112,980   | 10,000     |            | 77.124,469   | 326,920     | 88.055,821   | 152,400 | 174,520 |
| 749+0,000  | 3,403    | 4.541,919   | 0,049     | 5.113,029   | 10,000     | 34,030     | 77.158,499   | 98,810      | 88.154,631   | 98,810  |         |
| 749+10,000 | 10,138   | 4.552,057   |           | 5.113,029   | 5,000      | 67,705     | 77.226,204   | 0,245       | 88.154,876   | 0,245   |         |
| 750+0,000  | 13,694   | 4.565,751   |           | 5.113,029   | 5,000      | 119,160    | 77.345,364   |             | 88.154,876   |         |         |
| 751+0,000  | 18,790   | 4.584,541   |           | 5.113,029   | 10,000     | 324,840    | 77.670,204   |             | 88.154,876   |         |         |
| 752+0,000  | 19,780   | 4.604,321   |           | 5.113,029   | 10,000     | 385,700    | 78.055,904   |             | 88.154,876   |         |         |
| 753+0,000  | 21,624   | 4.625,945   |           | 5.113,029   | 10,000     | 414,040    | 78.469,944   |             | 88.154,876   |         |         |
| 754+0,000  | 22,796   | 4.648,741   |           | 5.113,029   | 10,000     | 444,200    | 78.914,144   |             | 88.154,876   |         |         |
| 755+0,000  | 18,272   | 4.667,013   |           | 5.113,029   | 10,000     | 410,680    | 79.324,824   |             | 88.154,876   |         |         |
| 756+0,000  | 5,311    | 4.672,324   |           | 5.113,029   | 10,000     | 235,830    | 79.560,654   |             | 88.154,876   |         |         |
| 757+0,000  | 1,000    | 4.673,324   | 3,486     | 5.116,515   | 10,000     | 63,110     | 79.623,764   | 34,860      | 88.189,736   | 34,860  |         |
| 757+10,000 | 0,127    | 4.673,451   | 5,246     | 5.121,761   | 5,000      | 5,635      | 79.629,399   | 43,660      | 88.233,396   | 43,660  |         |
| 758+0,000  | 0,142    | 4.673,593   | 7,116     | 5.128,877   | 5,000      | 1,345      | 79.630,744   | 61,810      | 88.295,206   | 61,810  |         |
| 759+0,000  |          | 4.673,593   | 9,083     | 5.137,960   | 10,000     | 1,420      | 79.632,164   | 161,990     | 88.457,196   | 152,400 | 9,590   |
| 760+0,000  |          | 4.673,593   | 6,414     | 5.144,374   | 10,000     |            | 79.632,164   | 154,970     | 88.612,166   | 152,400 | 2,570   |
| 761+0,000  |          | 4.673,593   | 7,099     | 5.151,473   | 10,000     |            | 79.632,164   | 135,130     | 88.747,296   | 135,130 |         |
| 762+0,000  | 1,683    | 4.675,276   | 1,100     | 5.152,573   | 10,000     | 16,830     | 79.648,994   | 81,990      | 88.829,286   | 81,990  |         |
| 763+0,000  | 4,376    | 4.679,652   | 0,038     | 5.152,611   | 10,000     | 60,590     | 79.709,584   | 11,380      | 88.840,666   | 11,380  |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca    | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|-----------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 764+0,000 | 4,621    | 4.684,273   |           | 5.152,611   | 10,000     | 89,970     | 79.799,554   | 0,380       | 88.841,046   | 0,380   |         |
| 765+0,000 | 8,914    | 4.693,187   |           | 5.152,611   | 10,000     | 135,350    | 79.934,904   |             | 88.841,046   |         |         |
| 766+0,000 | 14,006   | 4.707,193   |           | 5.152,611   | 10,000     | 229,200    | 80.164,104   |             | 88.841,046   |         |         |
| 767+0,000 | 14,011   | 4.721,204   |           | 5.152,611   | 10,000     | 280,170    | 80.444,274   |             | 88.841,046   |         |         |
| 768+0,000 | 14,196   | 4.735,400   |           | 5.152,611   | 10,000     | 282,070    | 80.726,344   |             | 88.841,046   |         |         |
| 769+0,000 | 9,439    | 4.744,839   |           | 5.152,611   | 10,000     | 236,350    | 80.962,694   |             | 88.841,046   |         |         |
| 770+0,000 | 5,536    | 4.750,375   | 0,008     | 5.152,619   | 10,000     | 149,750    | 81.112,444   | 0,080       | 88.841,126   | 0,080   |         |
| 771+0,000 | 1,477    | 4.751,852   | 2,129     | 5.154,748   | 10,000     | 70,130     | 81.182,574   | 21,370      | 88.862,496   | 21,370  |         |
| 772+0,000 |          | 4.751,852   | 4,902     | 5.159,650   | 10,000     | 14,770     | 81.197,344   | 70,310      | 88.932,806   | 70,310  |         |
| 773+0,000 |          | 4.751,852   | 8,722     | 5.168,372   | 10,000     |            | 81.197,344   | 136,240     | 89.069,046   | 136,240 |         |
| 774+0,000 |          | 4.751,852   | 6,943     | 5.175,315   | 10,000     |            | 81.197,344   | 156,650     | 89.225,696   | 152,400 | 4,250   |
| 775+0,000 |          | 4.751,852   | 8,630     | 5.183,945   | 10,000     |            | 81.197,344   | 155,730     | 89.381,426   | 152,400 | 3,330   |
| 776+0,000 |          | 4.751,852   | 7,346     | 5.191,291   | 10,000     |            | 81.197,344   | 159,760     | 89.541,186   | 152,400 | 7,360   |
| 777+0,000 |          | 4.751,852   | 7,131     | 5.198,422   | 10,000     |            | 81.197,344   | 144,770     | 89.685,956   | 144,770 |         |
| 778+0,000 |          | 4.751,852   | 5,581     | 5.204,003   | 10,000     |            | 81.197,344   | 127,120     | 89.813,076   | 127,120 |         |
| 779+0,000 | 0,116    | 4.751,968   | 3,797     | 5.207,800   | 10,000     | 1,160      | 81.198,504   | 93,780      | 89.906,856   | 93,780  |         |
| 780+0,000 | 1,823    | 4.753,791   | 1,202     | 5.209,002   | 10,000     | 19,390     | 81.217,894   | 49,990      | 89.956,846   | 49,990  |         |
| 781+0,000 | 4,143    | 4.757,934   | 0,307     | 5.209,309   | 10,000     | 59,660     | 81.277,554   | 15,090      | 89.971,936   | 15,090  |         |
| 782+0,000 | 8,239    | 4.766,173   |           | 5.209,309   | 10,000     | 123,820    | 81.401,374   | 3,070       | 89.975,006   | 3,070   |         |
| 783+0,000 | 7,208    | 4.773,381   |           | 5.209,309   | 10,000     | 154,470    | 81.555,844   |             | 89.975,006   |         |         |
| 784+0,000 | 9,501    | 4.782,882   |           | 5.209,309   | 10,000     | 167,090    | 81.722,934   |             | 89.975,006   |         |         |
| 785+0,000 | 6,500    | 4.789,382   | 0,002     | 5.209,311   | 10,000     | 160,010    | 81.882,944   | 0,020       | 89.975,026   | 0,020   |         |
| 786+0,000 | 2,290    | 4.791,672   | 0,184     | 5.209,495   | 10,000     | 87,900     | 81.970,844   | 1,860       | 89.976,886   | 1,860   |         |
| 787+0,000 | 1,137    | 4.792,809   | 0,644     | 5.210,139   | 10,000     | 34,270     | 82.005,114   | 8,280       | 89.985,166   | 8,280   |         |
| 788+0,000 | 1,764    | 4.794,573   | 0,146     | 5.210,285   | 10,000     | 29,010     | 82.034,124   | 7,900       | 89.993,066   | 7,900   |         |
| 789+0,000 | 1,569    | 4.796,142   | 0,178     | 5.210,463   | 10,000     | 33,330     | 82.067,454   | 3,240       | 89.996,306   | 3,240   |         |
| 790+0,000 | 3,465    | 4.799,607   | 0,049     | 5.210,512   | 10,000     | 50,340     | 82.117,794   | 2,270       | 89.998,576   | 2,270   |         |
| 791+0,000 | 3,208    | 4.802,815   | 0,652     | 5.211,164   | 10,000     | 66,730     | 82.184,524   | 7,010       | 90.005,586   | 7,010   |         |
| 791+5,779 | 2,894    | 4.805,709   | 0,982     | 5.212,146   | 2,890      | 17,632     | 82.202,156   | 4,721       | 90.010,307   | 4,721   |         |
| 792+0,000 | 2,752    | 4.808,461   | 0,837     | 5.212,983   | 7,111      | 40,146     | 82.242,301   | 12,934      | 90.023,241   | 12,934  |         |
| 793+0,000 | 3,632    | 4.812,093   | 0,201     | 5.213,184   | 10,000     | 63,840     | 82.306,141   | 10,380      | 90.033,621   | 10,380  |         |
| 794+0,000 | 4,083    | 4.816,176   | 0,472     | 5.213,656   | 10,000     | 77,150     | 82.383,291   | 6,730       | 90.040,351   | 6,730   |         |
| 795+0,000 | 0,608    | 4.816,784   | 0,167     | 5.213,823   | 10,000     | 46,910     | 82.430,201   | 6,390       | 90.046,741   | 6,390   |         |
| 796+0,000 | 3,104    | 4.819,888   |           | 5.213,823   | 10,000     | 37,120     | 82.467,321   | 1,670       | 90.048,411   | 1,670   |         |
| 797+0,000 | 6,841    | 4.826,729   | 0,028     | 5.213,851   | 10,000     | 99,450     | 82.566,771   | 0,280       | 90.048,691   | 0,280   |         |
| 798+0,000 | 6,872    | 4.833,601   | 0,012     | 5.213,863   | 10,000     | 137,130    | 82.703,901   | 0,400       | 90.049,091   | 0,400   |         |
| 799+0,000 | 7,491    | 4.841,092   | 0,044     | 5.213,907   | 10,000     | 143,630    | 82.847,531   | 0,560       | 90.049,651   | 0,560   |         |
| 800+0,000 | 6,410    | 4.847,502   | 0,005     | 5.213,912   | 10,000     | 139,010    | 82.986,541   | 0,490       | 90.050,141   | 0,490   |         |
| 801+0,000 | 2,143    | 4.849,645   | 1,362     | 5.215,274   | 10,000     | 85,530     | 83.072,071   | 13,670      | 90.063,811   | 13,670  |         |
| 802+0,000 | 0,583    | 4.850,228   | 3,981     | 5.219,255   | 10,000     | 27,260     | 83.099,331   | 53,430      | 90.117,241   | 53,430  |         |
| 803+0,000 | 0,241    | 4.850,469   | 6,077     | 5.225,332   | 10,000     | 8,240      | 83.107,571   | 100,580     | 90.217,821   | 100,580 |         |
| 804+0,000 |          | 4.850,469   | 3,750     | 5.229,082   | 10,000     | 2,410      | 83.109,981   | 98,270      | 90.316,091   | 98,270  |         |
| 805+0,000 |          | 4.850,469   | 9,009     | 5.238,091   | 10,000     |            | 83.109,981   | 127,590     | 90.443,681   | 127,590 |         |
| 806+0,000 |          | 4.850,469   | 11,771    | 5.249,862   | 10,000     |            | 83.109,981   | 207,800     | 90.651,481   | 152,400 | 55,400  |
| 807+0,000 |          | 4.850,469   | 15,341    | 5.265,203   | 10,000     |            | 83.109,981   | 271,120     | 90.922,601   | 152,400 | 118,720 |
| 808+0,000 |          | 4.850,469   | 18,188    | 5.283,391   | 10,000     |            | 83.109,981   | 335,290     | 91.257,891   | 152,400 | 182,890 |
| 809+0,000 |          | 4.850,469   | 26,141    | 5.309,532   | 10,000     |            | 83.109,981   | 443,290     | 91.701,181   | 152,400 | 290,890 |
| 810+0,000 |          | 4.850,469   | 19,902    | 5.329,434   | 10,000     |            | 83.109,981   | 460,430     | 92.161,611   | 152,400 | 308,030 |
| 810+7,943 |          | 4.850,469   | 19,005    | 5.348,439   | 3,972      |            | 83.109,981   | 154,519     | 92.316,131   | 152,400 | 2,119   |
| 811+0,000 |          | 4.850,469   | 15,585    | 5.364,024   | 6,029      |            | 83.109,981   | 208,526     | 92.524,656   | 152,400 | 56,126  |
| 812+0,000 |          | 4.850,469   | 8,576     | 5.372,600   | 10,000     |            | 83.109,981   | 241,610     | 92.766,266   | 152,400 | 89,210  |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 813+0,000  |          | 4.850,469   | 2,354     | 5.374,954   | 10,000     |            | 83.109,981   | 109,300     | 92.875,566   | 109,300 |         |
| 814+0,000  | 5,215    | 4.855,684   | 0,270     | 5.375,224   | 10,000     | 52,150     | 83.162,131   | 26,240      | 92.901,806   | 26,240  |         |
| 815+0,000  | 15,388   | 4.871,072   |           | 5.375,224   | 10,000     | 206,030    | 83.368,161   | 2,700       | 92.904,506   | 2,700   |         |
| 816+0,000  | 20,230   | 4.891,302   |           | 5.375,224   | 10,000     | 356,180    | 83.724,341   |             | 92.904,506   |         |         |
| 817+0,000  | 18,262   | 4.909,564   |           | 5.375,224   | 10,000     | 384,920    | 84.109,261   |             | 92.904,506   |         |         |
| 818+0,000  | 21,875   | 4.931,439   |           | 5.375,224   | 10,000     | 401,370    | 84.510,631   |             | 92.904,506   |         |         |
| 819+0,000  | 20,732   | 4.952,171   |           | 5.375,224   | 10,000     | 426,070    | 84.936,701   |             | 92.904,506   |         |         |
| 820+0,000  | 18,257   | 4.970,428   |           | 5.375,224   | 10,000     | 389,890    | 85.326,591   |             | 92.904,506   |         |         |
| 821+0,000  | 13,781   | 4.984,209   |           | 5.375,224   | 10,000     | 320,380    | 85.646,971   |             | 92.904,506   |         |         |
| 822+0,000  | 11,129   | 4.995,338   |           | 5.375,224   | 10,000     | 249,100    | 85.896,071   |             | 92.904,506   |         |         |
| 823+0,000  | 5,180    | 5.000,518   | 2,003     | 5.377,227   | 10,000     | 163,090    | 86.059,161   | 20,030      | 92.924,536   | 20,030  |         |
| 824+0,000  | 11,657   | 5.012,175   |           | 5.377,227   | 10,000     | 168,370    | 86.227,531   | 20,030      | 92.944,566   | 20,030  |         |
| 825+0,000  | 12,388   | 5.024,563   |           | 5.377,227   | 10,000     | 240,450    | 86.467,981   |             | 92.944,566   |         |         |
| 826+0,000  | 11,467   | 5.036,030   |           | 5.377,227   | 10,000     | 238,550    | 86.706,531   |             | 92.944,566   |         |         |
| 827+0,000  | 10,087   | 5.046,117   |           | 5.377,227   | 10,000     | 215,540    | 86.922,071   |             | 92.944,566   |         |         |
| 828+0,000  | 8,255    | 5.054,372   |           | 5.377,227   | 10,000     | 183,420    | 87.105,491   |             | 92.944,566   |         |         |
| 829+0,000  | 6,841    | 5.061,213   |           | 5.377,227   | 10,000     | 150,960    | 87.256,451   |             | 92.944,566   |         |         |
| 830+0,000  | 5,065    | 5.066,278   |           | 5.377,227   | 10,000     | 119,060    | 87.375,511   |             | 92.944,566   |         |         |
| 831+0,000  | 8,398    | 5.074,676   |           | 5.377,227   | 10,000     | 134,630    | 87.510,141   |             | 92.944,566   |         |         |
| 832+0,000  | 11,853   | 5.086,529   |           | 5.377,227   | 10,000     | 202,510    | 87.712,651   |             | 92.944,566   |         |         |
| 833+0,000  | 18,923   | 5.105,452   |           | 5.377,227   | 10,000     | 307,760    | 88.020,411   |             | 92.944,566   |         |         |
| 834+0,000  | 27,812   | 5.133,264   |           | 5.377,227   | 10,000     | 467,350    | 88.487,761   |             | 92.944,566   |         |         |
| 835+0,000  | 20,523   | 5.153,787   |           | 5.377,227   | 10,000     | 483,350    | 88.971,111   |             | 92.944,566   |         |         |
| 836+0,000  | 17,475   | 5.171,262   |           | 5.377,227   | 10,000     | 379,980    | 89.351,091   |             | 92.944,566   |         |         |
| 837+0,000  | 9,448    | 5.180,710   |           | 5.377,227   | 10,000     | 269,230    | 89.620,321   |             | 92.944,566   |         |         |
| 838+0,000  | 5,004    | 5.185,714   | 0,033     | 5.377,260   | 10,000     | 144,520    | 89.764,841   | 0,330       | 92.944,896   | 0,330   |         |
| 838+14,215 | 1,542    | 5.187,256   | 0,903     | 5.378,163   | 7,108      | 46,526     | 89.811,367   | 6,653       | 92.951,549   | 6,653   |         |
| 839+0,000  |          | 5.187,256   | 2,568     | 5.380,731   | 2,893      | 4,460      | 89.815,827   | 10,040      | 92.961,589   | 10,040  |         |
| 839+19,312 |          | 5.187,256   | 6,725     | 5.387,456   | 9,656      |            | 89.815,827   | 89,733      | 93.051,322   | 89,733  |         |
| 840+0,000  |          | 5.187,256   | 6,791     | 5.394,247   | 0,344      |            | 89.815,827   | 4,650       | 93.055,972   | 4,650   |         |
| 840+8,000  |          | 5.187,256   | 7,861     | 5.402,108   | 4,000      |            | 89.815,827   | 58,608      | 93.114,580   | 58,608  |         |
| 840+17,215 |          | 5.187,256   | 8,709     | 5.410,817   | 4,608      |            | 89.815,827   | 76,346      | 93.190,926   | 76,346  |         |
| 841+0,000  |          | 5.187,256   | 8,949     | 5.419,766   | 1,393      |            | 89.815,827   | 24,589      | 93.215,515   | 24,589  |         |
| 841+15,119 |          | 5.187,256   | 12,139    | 5.431,905   | 7,560      |            | 89.815,827   | 159,415     | 93.374,929   | 152,400 | 7,015   |
| 842+0,000  |          | 5.187,256   | 12,086    | 5.443,991   | 2,441      |            | 89.815,827   | 59,121      | 93.434,050   | 59,121  |         |
| 842+14,215 |          | 5.187,256   | 10,625    | 5.454,616   | 7,108      |            | 89.815,827   | 161,418     | 93.595,469   | 152,400 | 9,018   |
| 843+0,000  |          | 5.187,256   | 9,239     | 5.463,855   | 2,893      |            | 89.815,827   | 57,457      | 93.652,926   | 57,457  |         |
| 844+0,000  |          | 5.187,256   | 5,744     | 5.469,599   | 10,000     |            | 89.815,827   | 149,830     | 93.802,756   | 149,830 |         |
| 845+0,000  |          | 5.187,256   | 5,080     | 5.474,679   | 10,000     |            | 89.815,827   | 108,240     | 93.910,996   | 108,240 |         |
| 845+0,294  |          | 5.187,256   | 5,162     | 5.479,841   | 0,147      |            | 89.815,827   | 1,506       | 93.912,501   | 1,506   |         |
| 846+0,000  |          | 5.187,256   | 5,512     | 5.485,353   | 9,853      |            | 89.815,827   | 105,171     | 94.017,672   | 105,171 |         |
| 847+0,000  | 0,115    | 5.187,371   | 2,559     | 5.487,912   | 10,000     | 1,150      | 89.816,977   | 80,710      | 94.098,382   | 80,710  |         |
| 847+18,599 | 0,929    | 5.188,300   | 1,024     | 5.488,936   | 9,300      | 9,709      | 89.826,686   | 33,320      | 94.131,702   | 33,320  |         |
| 848+0,000  | 0,997    | 5.189,297   | 0,906     | 5.489,842   | 0,701      | 1,349      | 89.828,035   | 1,352       | 94.133,054   | 1,352   |         |
| 849+0,000  | 2,765    | 5.192,062   | 0,001     | 5.489,843   | 10,000     | 37,620     | 89.865,655   | 9,070       | 94.142,124   | 9,070   |         |
| 849+8,000  | 3,917    | 5.195,979   |           | 5.489,843   | 4,000      | 26,728     | 89.892,383   | 0,004       | 94.142,128   | 0,004   |         |
| 850+0,000  | 5,334    | 5.201,313   |           | 5.489,843   | 6,000      | 55,506     | 89.947,889   |             | 94.142,128   |         |         |
| 851+0,000  | 7,694    | 5.209,007   |           | 5.489,843   | 10,000     | 130,280    | 90.078,169   |             | 94.142,128   |         |         |
| 852+0,000  | 10,910   | 5.219,917   |           | 5.489,843   | 10,000     | 186,040    | 90.264,209   |             | 94.142,128   |         |         |
| 853+0,000  | 7,441    | 5.227,358   | 0,038     | 5.489,881   | 10,000     | 183,510    | 90.447,719   | 0,380       | 94.142,508   | 0,380   |         |
| 853+2,983  | 7,166    | 5.234,524   | 0,044     | 5.489,925   | 1,492      | 21,786     | 90.469,506   | 0,122       | 94.142,630   | 0,122   |         |



### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca                  | Á. Corte                           | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |  |
|-------------------------|------------------------------------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|--|
| 854+0,000               | 4,955                              | 5.239,479   |           | 5.489,925   | 8,509      | 103,132    | 90.572,637   | 0,374       | 94.143,005   | 0,374   |         |  |
| INTERSEÇÃO 01           |                                    |             |           |             |            |            |              |             |              |         |         |  |
| INTERSEÇÃO 01 - RAMO 01 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 0+0.000                 | Sobreposição com a pista principal |             |           |             |            |            |              |             |              |         |         |  |
| 1+0.000                 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 2+0.000                 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 3+0.000                 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 4+0.000                 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 4+10.000                |                                    | 5.239,479   | 12,972    | 5.502,897   | 5,000      |            | 90.572,637   | 64,860      | 94.207,865   | 64,860  |         |  |
| 5+0.000                 |                                    | 5.239,479   | 13,337    | 5.516,234   | 5,000      |            | 90.572,637   | 131,545     | 94.339,410   | 116,400 | 15,145  |  |
| 5+16.048                |                                    | 5.239,479   | 12,238    | 5.528,472   | 8,024      |            | 90.572,637   | 205,214     | 94.544,624   | 116,400 | 88,814  |  |
| 6+0.000                 |                                    | 5.239,479   | 12,113    | 5.540,585   | 1,976      |            | 90.572,637   | 48,118      | 94.592,741   | 48,118  |         |  |
| 7+0.000                 |                                    | 5.239,479   | 9,398     | 5.549,983   | 10,000     |            | 90.572,637   | 215,110     | 94.807,851   | 116,400 | 98,710  |  |
| 8+0.000                 |                                    | 5.239,479   | 7,640     | 5.557,623   | 10,000     |            | 90.572,637   | 170,380     | 94.978,231   | 116,400 | 53,980  |  |
| 9+0.000                 | Sobreposição com a Rótula          |             |           |             |            |            |              |             |              |         |         |  |
| 9+3.548                 |                                    | 5.239,479   | 5,053     | 5.562,676   | 1,774      |            | 90.572,637   | 8,964       | 94.987,195   | 8,964   |         |  |
| 9+13.744                |                                    | 5.239,479   | 2,594     | 5.565,270   | 5,098      |            | 90.572,637   | 38,984      | 95.026,180   | 38,984  |         |  |
| 10+0.000                |                                    | 5.239,479   | 2,153     | 5.567,423   | 3,128      |            | 90.572,637   | 14,849      | 95.041,028   | 14,849  |         |  |
| 10+12.000               |                                    | 5.239,479   | 2,915     | 5.570,338   | 6,000      |            | 90.572,637   | 30,408      | 95.071,436   | 30,408  |         |  |
| 10+14.257               |                                    | 5.239,479   | 2,502     | 5.572,840   | 1,129      |            | 90.572,637   | 6,113       | 95.077,549   | 6,113   |         |  |
| INTERSEÇÃO 01 - RAMO 02 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 0+0.000                 | 0,307                              | 5.239,786   | 2,067     | 5.574,907   | 0,000      |            | 90.572,637   |             | 95.077,549   |         |         |  |
| 0+9.783                 | 1,760                              | 5.241,546   | 1,321     | 5.576,228   | 4,892      | 10,111     | 90.582,748   | 16,572      | 95.094,122   | 16,572  |         |  |
| 1+0.000                 | 0,515                              | 5.242,061   | 0,161     | 5.576,389   | 5,109      | 11,622     | 90.594,370   | 7,571       | 95.101,693   | 7,571   |         |  |
| 2+0.000                 | 0,599                              | 5.242,660   | 1,130     | 5.577,519   | 10,000     | 11,140     | 90.605,510   | 12,910      | 95.114,603   | 12,910  |         |  |
| 2+6.126                 | 0,404                              | 5.243,064   | 1,952     | 5.579,471   | 3,063      | 3,072      | 90.608,582   | 9,440       | 95.124,043   | 9,440   |         |  |
| 2+9.783                 | 1,259                              | 5.244,323   | 1,328     | 5.580,799   | 1,829      | 3,041      | 90.611,623   | 5,997       | 95.130,040   | 5,997   |         |  |
| 2+10.000                | 1,294                              | 5.245,617   | 1,287     | 5.582,086   | 0,109      | 0,277      | 90.611,900   | 0,284       | 95.130,324   | 0,284   |         |  |
| 3+0.000                 | Sobreposição com a Rótula          |             |           |             |            |            |              |             |              |         |         |  |
| 3+15.000                | 2,968                              | 5.248,585   |           | 5.582,086   | 7,500      | 44,520     | 90.656,420   |             | 95.130,324   |         |         |  |
| 4+0.000                 | 4,526                              | 5.253,111   |           | 5.582,086   | 2,500      | 18,735     | 90.675,155   |             | 95.130,324   |         |         |  |
| 5+0.000                 | 5,930                              | 5.259,041   |           | 5.582,086   | 10,000     | 104,560    | 90.779,715   |             | 95.130,324   |         |         |  |
| 6+0.000                 | 4,649                              | 5.263,690   |           | 5.582,086   | 10,000     | 105,790    | 90.885,505   |             | 95.130,324   |         |         |  |
| 7+0.000                 | 6,249                              | 5.269,939   |           | 5.582,086   | 10,000     | 108,980    | 90.994,485   |             | 95.130,324   |         |         |  |
| 8+0.000                 | 4,051                              | 5.273,990   |           | 5.582,086   | 10,000     | 103,000    | 91.097,485   |             | 95.130,324   |         |         |  |
| 9+0,000                 | Sobreposição com a pista principal |             |           |             |            |            |              |             |              |         |         |  |
| 10+0,000                |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 11+0,000                |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 11+15,753               |                                    |             |           |             |            |            |              |             |              |         |         |  |
| INTERSEÇÃO 01 - RÓTULA  |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 0+0.000                 | Sobreposição com a pista principal |             |           |             |            |            |              |             |              |         |         |  |
| 0+15.000                |                                    | 5.273,990   | 4,035     | 5.586,121   | 7,500      |            | 91.097,485   | 30,263      | 95.160,586   | 30,263  |         |  |
| 1+0.000                 |                                    | 5.273,990   | 4,872     | 5.590,993   | 2,500      |            | 91.097,485   | 22,268      | 95.182,854   | 22,268  |         |  |
| 1+2.992                 |                                    | 5.273,990   | 5,440     | 5.596,433   | 1,496      |            | 91.097,485   | 15,427      | 95.198,281   | 15,427  |         |  |
| 2+0.000                 |                                    | 5.273,990   | 8,412     | 5.604,845   | 8,504      |            | 91.097,485   | 117,797     | 95.316,078   | 117,797 |         |  |
| 2+5.984                 |                                    | 5.273,990   | 8,096     | 5.612,941   | 2,992      |            | 91.097,485   | 49,392      | 95.365,470   | 49,392  |         |  |
| 3+0.000                 |                                    | 5.273,990   | 7,843     | 5.620,784   | 7,008      |            | 91.097,485   | 111,701     | 95.477,170   | 111,701 |         |  |
| 3+17.255                | 2,813                              | 5.276,803   | 3,521     | 5.624,305   | 8,628      | 24,269     | 91.121,754   | 98,043      | 95.575,213   | 98,043  |         |  |
| 4+0.000                 | 3,350                              | 5.280,153   | 2,708     | 5.627,013   | 1,373      | 8,459      | 91.130,212   | 8,549       | 95.583,763   | 8,549   |         |  |
| 5+0.000                 | 2,191                              | 5.282,344   | 1,091     | 5.628,104   | 10,000     | 55,410     | 91.185,622   | 37,990      | 95.621,753   | 37,990  |         |  |
| 5+8.527                 | 2,293                              | 5.284,637   | 0,034     | 5.628,138   | 4,264      | 19,118     | 91.204,740   | 4,796       | 95.626,549   | 4,796   |         |  |



## Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca                   | Á. Corte                           | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN   |  |
|--------------------------|------------------------------------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|-----------|--|
| 6+0.000                  | 7,347                              | 5.291,984   |           | 5.628,138   | 5,737      | 55,300     | 91.260,040   | 0,195       | 95.626,744   | 0,195   |           |  |
| 6+11.519                 | 7,548                              | 5.299,532   |           | 5.628,138   | 5,760      | 85,788     | 91.345,828   |             | 95.626,744   |         |           |  |
| 7+0.000                  | 4,761                              | 5.304,293   |           | 5.628,138   | 4,241      | 52,196     | 91.398,024   |             | 95.626,744   |         |           |  |
| 7+14.510                 | Sobreposição com a pista principal |             |           |             |            |            |              |             |              |         |           |  |
| CONTINUAÇÃO PISTA RO-010 |                                    |             |           |             |            |            |              |             |              |         |           |  |
| 854+2,080                | 4,600                              | 5.308,893   |           | 5.628,138   | 1,040      | 4,784      | 91.402,808   |             | 95.626,744   |         |           |  |
| 854+19,983               | 3,108                              | 5.312,001   | 0,151     | 5.628,289   | 8,952      | 68,998     | 91.471,806   | 1,352       | 95.628,096   | 1,352   |           |  |
| 855+0,000                | 3,104                              | 5.315,105   | 0,154     | 5.628,443   | 0,009      | 0,053      | 91.471,859   | 0,003       | 95.628,098   | 0,003   |           |  |
| 855+17,886               | 1,533                              | 5.316,638   | 0,927     | 5.629,370   | 8,943      | 41,469     | 91.513,328   | 9,667       | 95.637,766   | 9,667   |           |  |
| 856+0,000                | 1,413                              | 5.318,051   | 1,018     | 5.630,388   | 1,057      | 3,114      | 91.516,442   | 2,056       | 95.639,822   | 2,056   |           |  |
| 857+0,000                | 0,641                              | 5.318,692   | 2,791     | 5.633,179   | 10,000     | 20,540     | 91.536,982   | 38,090      | 95.677,912   | 38,090  |           |  |
| 857+2,983                | 0,457                              | 5.319,149   | 3,276     | 5.636,455   | 1,492      | 1,638      | 91.538,619   | 9,049       | 95.686,961   | 9,049   |           |  |
| 858+0,000                |                                    | 5.319,149   | 5,467     | 5.641,922   | 8,509      | 3,888      | 91.542,508   | 74,390      | 95.761,350   | 74,390  |           |  |
| 859+0,000                |                                    | 5.319,149   | 7,074     | 5.648,996   | 10,000     |            | 91.542,508   | 125,410     | 95.886,760   | 125,410 |           |  |
| 860+0,000                |                                    | 5.319,149   | 8,221     | 5.657,217   | 10,000     |            | 91.542,508   | 152,950     | 96.039,710   | 152,400 | 0,550     |  |
| 861+0,000                |                                    | 5.319,149   | 9,100     | 5.666,317   | 10,000     |            | 91.542,508   | 173,210     | 96.212,920   | 152,400 | 20,810    |  |
| 862+0,000                |                                    | 5.319,149   | 9,707     | 5.676,024   | 10,000     |            | 91.542,508   | 188,070     | 96.400,990   | 152,400 | 35,670    |  |
| 862+13,000               |                                    | 5.319,149   | 9,357     | 5.685,381   | 6,500      |            | 91.542,508   | 123,916     | 96.524,906   | 123,916 |           |  |
| 863+0,000                |                                    | 5.319,149   | 8,869     | 5.694,250   | 3,500      |            | 91.542,508   | 63,791      | 96.588,697   | 63,791  |           |  |
| 863+7,045                |                                    | 5.319,149   | 9,672     | 5.703,922   | 3,523      |            | 91.542,508   | 65,311      | 96.654,008   | 65,311  |           |  |
| 864+0,000                |                                    | 5.319,149   | 10,435    | 5.714,357   | 6,478      |            | 91.542,508   | 130,243     | 96.784,251   | 130,243 |           |  |
| 865+0,000                |                                    | 5.319,149   | 11,830    | 5.726,187   | 10,000     |            | 91.542,508   | 222,650     | 97.006,901   | 152,400 | 70,250    |  |
| 866+0,000                |                                    | 5.319,149   | 8,801     | 5.734,988   | 10,000     |            | 91.542,508   | 206,310     | 97.213,211   | 152,400 | 53,910    |  |
| 867+0,000                |                                    | 5.319,149   | 9,981     | 5.744,969   | 10,000     |            | 91.542,508   | 187,820     | 97.401,031   | 152,400 | 35,420    |  |
| 868+0,000                |                                    | 5.319,149   | 12,414    | 5.757,383   | 10,000     |            | 91.542,508   | 223,950     | 97.624,981   | 152,400 | 71,550    |  |
| 869+0,000                |                                    | 5.319,149   | 12,975    | 5.770,358   | 10,000     |            | 91.542,508   | 253,890     | 97.878,871   | 152,400 | 101,490   |  |
| 870+0,000                |                                    | 5.319,149   | 9,939     | 5.780,297   | 10,000     |            | 91.542,508   | 229,140     | 98.108,011   | 152,400 | 76,740    |  |
| 871+0,000                |                                    | 5.319,149   | 8,628     | 5.788,925   | 10,000     |            | 91.542,508   | 185,670     | 98.293,681   | 152,400 | 33,270    |  |
| 872+0,000                |                                    | 5.319,149   | 2,363     | 5.791,288   | 10,000     |            | 91.542,508   | 109,910     | 98.403,591   | 109,910 |           |  |
| 873+0,000                | 3,076                              | 5.322,225   |           | 5.791,288   | 10,000     | 30,760     | 91.573,268   | 23,630      | 98.427,221   | 23,630  |           |  |
| 873+13,000               | 6,474                              | 5.328,699   |           | 5.791,288   | 6,500      | 62,075     | 91.635,343   |             | 98.427,221   |         |           |  |
| 874+0,000                | 8,727                              | 5.337,426   |           | 5.791,288   | 3,500      | 53,204     | 91.688,546   |             | 98.427,221   |         |           |  |
| 874+5,000                | 10,458                             | 5.347,884   |           | 5.791,288   | 2,500      | 47,963     | 91.736,509   |             | 98.427,221   |         |           |  |
| 875+0,000                | 15,641                             | 5.363,525   |           | 5.791,288   | 7,500      | 195,743    | 91.932,251   |             | 98.427,221   |         |           |  |
| 876+0,000                | 21,158                             | 5.384,683   |           | 5.791,288   | 10,000     | 367,990    | 92.300,241   |             | 98.427,221   |         |           |  |
| 877+0,000                | 31,491                             | 5.416,174   |           | 5.791,288   | 10,000     | 526,490    | 92.826,731   |             | 98.427,221   |         |           |  |
| 878+0,000                | 37,832                             | 5.454,006   |           | 5.791,288   | 10,000     | 693,230    | 93.519,961   |             | 98.427,221   |         |           |  |
| 879+0,000                | 50,059                             | 5.504,065   |           | 5.791,288   | 10,000     | 878,910    | 94.398,871   |             | 98.427,221   |         |           |  |
| 879+5,383                | 53,983                             | 5.558,048   |           | 5.791,288   | 2,692      | 280,029    | 94.678,900   |             | 98.427,221   |         |           |  |
| 879+5,392                | 53,991                             | 5.612,039   |           | 5.791,288   | 0,005      | 0,486      | 94.679,386   |             | 98.427,221   |         |           |  |
| 879+15,172               | 64,179                             | 5.676,218   |           | 5.791,288   | 4,891      | 577,910    | 95.257,296   |             | 98.427,221   |         |           |  |
| 880+0,000                | 69,056                             | 5.745,274   |           | 5.791,288   | 2,414      | 321,629    | 95.578,926   |             | 98.427,221   |         |           |  |
| 881+0,000                | 77,944                             | 5.823,218   |           | 5.791,288   | 10,000     | 1.470,000  | 97.048,926   |             | 98.427,221   |         |           |  |
| 882+0,000                | 62,988                             | 5.886,206   |           | 5.791,288   | 10,000     | 1.409,320  | 98.458,246   |             | 98.427,221   |         |           |  |
| 882+5,000                | 59,449                             | 5.945,655   |           | 5.791,288   | 2,500      | 306,093    | 98.764,338   |             | 98.427,221   |         |           |  |
| 883+0,000                | 46,548                             | 5.992,203   |           | 5.791,288   | 7,500      | 794,978    | 99.559,316   |             | 98.427,221   |         |           |  |
| 884+0,000                | 23,433                             | 6.015,636   |           | 5.791,288   | 10,000     | 699,810    | 100.259,126  |             | 98.427,221   |         |           |  |
| 885+0,000                | 0,765                              | 6.016,401   | 12,044    | 5.803,332   | 10,000     | 241,980    | 100.501,106  | 120,440     | 98.547,661   | 120,440 |           |  |
| 886+0,000                |                                    | 6.016,401   | 44,862    | 5.848,194   | 10,000     | 7,650      | 100.508,756  | 569,060     | 99.116,721   | 152,400 | 416,660   |  |
| 887+0,000                |                                    | 6.016,401   | 87,809    | 5.936,003   | 10,000     |            | 100.508,756  | 1.326,710   | 100.443,431  | 152,400 | 1.174,310 |  |
| 888+0,000                |                                    | 6.016,401   | 123,832   | 6.059,835   | 10,000     |            | 100.508,756  | 2.116,410   | 102.559,841  | 152,400 | 1.964,010 |  |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca    | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN   |
|-----------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|-----------|
| 889+0,000 |          | 6.016,401   | 131,178   | 6.191,013   | 10,000     |            | 100.508,756  | 2.550,100   | 105.109,941  | 152,400 | 2.397,700 |
| 890+0,000 |          | 6.016,401   | 59,618    | 6.250,631   | 10,000     |            | 100.508,756  | 1.907,960   | 107.017,901  | 152,400 | 1.755,560 |
| 891+0,000 |          | 6.016,401   | 18,934    | 6.269,565   | 10,000     |            | 100.508,756  | 785,520     | 107.803,421  | 152,400 | 633,120   |
| 892+0,000 | 11,176   | 6.027,577   |           | 6.269,565   | 10,000     | 111,760    | 100.620,516  | 189,340     | 107.992,761  | 152,400 | 36,940    |
| 893+0,000 | 27,406   | 6.054,983   |           | 6.269,565   | 10,000     | 385,820    | 101.006,336  |             | 107.992,761  |         |           |
| 894+0,000 | 52,937   | 6.107,920   |           | 6.269,565   | 10,000     | 803,430    | 101.809,766  |             | 107.992,761  |         |           |
| 895+0,000 | 66,299   | 6.174,219   |           | 6.269,565   | 10,000     | 1.192,360  | 103.002,126  |             | 107.992,761  |         |           |
| 896+0,000 | 66,456   | 6.240,675   |           | 6.269,565   | 10,000     | 1.327,550  | 104.329,676  |             | 107.992,761  |         |           |
| 897+0,000 | 56,890   | 6.297,565   |           | 6.269,565   | 10,000     | 1.233,460  | 105.563,136  |             | 107.992,761  |         |           |
| 898+0,000 | 42,784   | 6.340,349   |           | 6.269,565   | 10,000     | 996,740    | 106.559,876  |             | 107.992,761  |         |           |
| 899+0,000 | 32,079   | 6.372,428   |           | 6.269,565   | 10,000     | 748,630    | 107.308,506  |             | 107.992,761  |         |           |
| 900+0,000 | 14,490   | 6.386,918   |           | 6.269,565   | 10,000     | 465,690    | 107.774,196  |             | 107.992,761  |         |           |
| 901+0,000 | 0,758    | 6.387,676   | 13,032    | 6.282,597   | 10,000     | 152,480    | 107.926,676  | 130,320     | 108.123,081  | 130,320 |           |
| 902+0,000 |          | 6.387,676   | 41,775    | 6.324,372   | 10,000     | 7,580      | 107.934,256  | 548,070     | 108.671,151  | 152,400 | 395,670   |
| 903+0,000 |          | 6.387,676   | 44,138    | 6.368,510   | 10,000     |            | 107.934,256  | 859,130     | 109.530,281  | 152,400 | 706,730   |
| 904+0,000 |          | 6.387,676   | 42,435    | 6.410,945   | 10,000     |            | 107.934,256  | 865,730     | 110.396,011  | 152,400 | 713,330   |
| 905+0,000 |          | 6.387,676   | 28,517    | 6.439,462   | 10,000     |            | 107.934,256  | 709,520     | 111.105,531  | 152,400 | 557,120   |
| 906+0,000 |          | 6.387,676   | 14,985    | 6.454,447   | 10,000     |            | 107.934,256  | 435,020     | 111.540,551  | 152,400 | 282,620   |
| 907+0,000 | 1,985    | 6.389,661   | 0,477     | 6.454,924   | 10,000     | 19,850     | 107.954,106  | 154,620     | 111.695,171  | 152,400 | 2,220     |
| 908+0,000 | 17,578   | 6.407,239   |           | 6.454,924   | 10,000     | 195,630    | 108.149,736  | 4,770       | 111.699,941  | 4,770   |           |
| 909+0,000 | 38,923   | 6.446,162   |           | 6.454,924   | 10,000     | 565,010    | 108.714,746  |             | 111.699,941  |         |           |
| 910+0,000 | 50,668   | 6.496,830   |           | 6.454,924   | 10,000     | 895,910    | 109.610,656  |             | 111.699,941  |         |           |
| 911+0,000 | 56,643   | 6.553,473   |           | 6.454,924   | 10,000     | 1.073,110  | 110.683,766  |             | 111.699,941  |         |           |
| 912+0,000 | 48,142   | 6.601,615   |           | 6.454,924   | 10,000     | 1.047,850  | 111.731,616  |             | 111.699,941  |         |           |
| 913+0,000 | 45,352   | 6.646,967   |           | 6.454,924   | 10,000     | 934,940    | 112.666,556  |             | 111.699,941  |         |           |
| 914+0,000 | 40,549   | 6.687,516   |           | 6.454,924   | 10,000     | 859,010    | 113.525,566  |             | 111.699,941  |         |           |
| 915+0,000 | 40,058   | 6.727,574   |           | 6.454,924   | 10,000     | 806,070    | 114.331,636  |             | 111.699,941  |         |           |
| 916+0,000 | 35,598   | 6.763,172   |           | 6.454,924   | 10,000     | 756,560    | 115.088,196  |             | 111.699,941  |         |           |
| 917+0,000 | 28,466   | 6.791,638   |           | 6.454,924   | 10,000     | 640,640    | 115.728,836  |             | 111.699,941  |         |           |
| 917+7,000 | 26,967   | 6.818,605   |           | 6.454,924   | 3,500      | 194,016    | 115.922,851  |             | 111.699,941  |         |           |
| 918+0,000 | 17,168   | 6.835,773   |           | 6.454,924   | 6,500      | 286,878    | 116.209,729  |             | 111.699,941  |         |           |
| 919+0,000 | 6,609    | 6.842,382   |           | 6.454,924   | 10,000     | 237,770    | 116.447,499  |             | 111.699,941  |         |           |
| 920+0,000 |          | 6.842,382   | 3,273     | 6.458,197   | 10,000     | 66,090     | 116.513,589  | 32,730      | 111.732,671  | 32,730  |           |
| 921+0,000 |          | 6.842,382   | 13,935    | 6.472,132   | 10,000     |            | 116.513,589  | 172,080     | 111.904,751  | 152,400 | 19,680    |
| 922+0,000 |          | 6.842,382   | 22,058    | 6.494,190   | 10,000     |            | 116.513,589  | 359,930     | 112.264,681  | 152,400 | 207,530   |
| 923+0,000 |          | 6.842,382   | 31,794    | 6.525,984   | 10,000     |            | 116.513,589  | 538,520     | 112.803,201  | 152,400 | 386,120   |
| 923+4,750 |          | 6.842,382   | 33,330    | 6.559,314   | 2,375      |            | 116.513,589  | 154,670     | 112.957,871  | 152,400 | 2,269     |
| 924+0,000 |          | 6.842,382   | 34,354    | 6.593,668   | 7,625      |            | 116.513,589  | 516,091     | 113.473,961  | 152,400 | 363,691   |
| 925+0,000 |          | 6.842,382   | 31,317    | 6.624,985   | 10,000     |            | 116.513,589  | 656,710     | 114.130,671  | 152,400 | 504,310   |
| 926+0,000 |          | 6.842,382   | 27,201    | 6.652,186   | 10,000     |            | 116.513,589  | 585,180     | 114.715,851  | 152,400 | 432,780   |
| 927+0,000 |          | 6.842,382   | 16,877    | 6.669,063   | 10,000     |            | 116.513,589  | 440,780     | 115.156,631  | 152,400 | 288,380   |
| 927+8,226 |          | 6.842,382   | 13,270    | 6.682,333   | 4,113      |            | 116.513,589  | 123,995     | 115.280,626  | 123,995 |           |
| 927+8,275 |          | 6.842,382   | 13,253    | 6.695,586   | 0,025      |            | 116.513,589  | 0,650       | 115.281,276  | 0,650   |           |
| 928+0,000 |          | 6.842,382   | 8,962     | 6.704,548   | 5,863      |            | 116.513,589  | 130,235     | 115.411,511  | 130,235 |           |
| 929+0,000 | 0,720    | 6.843,102   | 3,018     | 6.707,566   | 10,000     | 7,200      | 116.520,789  | 119,800     | 115.531,311  | 119,800 |           |
| 930+0,000 | 0,602    | 6.843,704   | 3,091     | 6.710,657   | 10,000     | 13,220     | 116.534,009  | 61,090      | 115.592,401  | 61,090  |           |
| 930+7,000 | 0,199    | 6.843,903   | 1,753     | 6.712,410   | 3,500      | 2,804      | 116.536,812  | 16,954      | 115.609,355  | 16,954  |           |
| 931+0,000 | 1,565    | 6.845,468   | 0,413     | 6.712,823   | 6,500      | 11,466     | 116.548,278  | 14,079      | 115.623,434  | 14,079  |           |
| 932+0,000 | 6,620    | 6.852,088   | 0,059     | 6.712,882   | 10,000     | 81,850     | 116.630,128  | 4,720       | 115.628,154  | 4,720   |           |
| 933+0,000 | 9,274    | 6.861,362   |           | 6.712,882   | 10,000     | 158,940    | 116.789,068  | 0,590       | 115.628,744  | 0,590   |           |
| 934+0,000 | 12,436   | 6.873,798   |           | 6.712,882   | 10,000     | 217,100    | 117.006,168  |             | 115.628,744  |         |           |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca     | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 935+0,000  | 17,067   | 6.890,865   |           | 6.712,882   | 10,000     | 295,030    | 117.301,198  |             | 115.628,744  |         |         |
| 936+0,000  | 21,512   | 6.912,377   |           | 6.712,882   | 10,000     | 385,790    | 117.686,988  |             | 115.628,744  |         |         |
| 937+0,000  | 29,826   | 6.942,203   |           | 6.712,882   | 10,000     | 513,380    | 118.200,368  |             | 115.628,744  |         |         |
| 938+0,000  | 34,821   | 6.977,024   |           | 6.712,882   | 10,000     | 646,470    | 118.846,838  |             | 115.628,744  |         |         |
| 939+0,000  | 40,591   | 7.017,615   |           | 6.712,882   | 10,000     | 754,120    | 119.600,958  |             | 115.628,744  |         |         |
| 940+0,000  | 36,874   | 7.054,489   |           | 6.712,882   | 10,000     | 774,650    | 120.375,608  |             | 115.628,744  |         |         |
| 941+0,000  | 28,373   | 7.082,862   |           | 6.712,882   | 10,000     | 652,470    | 121.028,078  |             | 115.628,744  |         |         |
| 942+0,000  | 21,627   | 7.104,489   |           | 6.712,882   | 10,000     | 500,000    | 121.528,078  |             | 115.628,744  |         |         |
| 943+0,000  | 11,426   | 7.115,915   |           | 6.712,882   | 10,000     | 330,530    | 121.858,608  |             | 115.628,744  |         |         |
| 944+0,000  | 3,238    | 7.119,153   |           | 6.712,882   | 10,000     | 146,640    | 122.005,248  |             | 115.628,744  |         |         |
| 945+0,000  |          | 7.119,153   | 2,507     | 6.715,389   | 10,000     | 32,380     | 122.037,628  | 25,070      | 115.653,814  | 25,070  |         |
| 946+0,000  |          | 7.119,153   | 5,790     | 6.721,179   | 10,000     |            | 122.037,628  | 82,970      | 115.736,784  | 82,970  |         |
| 947+0,000  |          | 7.119,153   | 9,094     | 6.730,273   | 10,000     |            | 122.037,628  | 148,840     | 115.885,624  | 148,840 |         |
| 948+0,000  |          | 7.119,153   | 12,758    | 6.743,031   | 10,000     |            | 122.037,628  | 218,520     | 116.104,144  | 152,400 | 66,120  |
| 949+0,000  |          | 7.119,153   | 17,757    | 6.760,788   | 10,000     |            | 122.037,628  | 305,150     | 116.409,294  | 152,400 | 152,750 |
| 950+0,000  |          | 7.119,153   | 19,299    | 6.780,087   | 10,000     |            | 122.037,628  | 370,560     | 116.779,854  | 152,400 | 218,160 |
| 951+0,000  |          | 7.119,153   | 17,681    | 6.797,768   | 10,000     |            | 122.037,628  | 369,800     | 117.149,654  | 152,400 | 217,400 |
| 952+0,000  |          | 7.119,153   | 18,457    | 6.816,225   | 10,000     |            | 122.037,628  | 361,380     | 117.511,034  | 152,400 | 208,980 |
| 953+0,000  |          | 7.119,153   | 20,663    | 6.836,888   | 10,000     |            | 122.037,628  | 391,200     | 117.902,234  | 152,400 | 238,800 |
| 954+0,000  |          | 7.119,153   | 19,452    | 6.856,340   | 10,000     |            | 122.037,628  | 401,150     | 118.303,384  | 152,400 | 248,750 |
| 955+0,000  |          | 7.119,153   | 15,162    | 6.871,502   | 10,000     |            | 122.037,628  | 346,140     | 118.649,524  | 152,400 | 193,740 |
| 956+0,000  |          | 7.119,153   | 9,988     | 6.881,490   | 10,000     |            | 122.037,628  | 251,500     | 118.901,024  | 152,400 | 99,100  |
| 957+0,000  | 0,118    | 7.119,271   | 9,592     | 6.891,082   | 10,000     | 1,180      | 122.038,808  | 195,800     | 119.096,824  | 152,400 | 43,400  |
| 958+0,000  | 0,905    | 7.120,176   | 5,687     | 6.896,769   | 10,000     | 10,230     | 122.049,038  | 152,790     | 119.249,614  | 152,400 | 0,390   |
| 958+15,000 | 2,392    | 7.122,568   | 1,887     | 6.898,656   | 7,500      | 24,728     | 122.073,766  | 56,805      | 119.306,419  | 56,805  |         |
| 959+0,000  | 4,331    | 7.126,899   | 0,657     | 6.899,313   | 2,500      | 16,808     | 122.090,573  | 6,360       | 119.312,779  | 6,360   |         |
| 960+0,000  | 15,628   | 7.142,527   |           | 6.899,313   | 10,000     | 199,590    | 122.290,163  | 6,570       | 119.319,349  | 6,570   |         |
| 961+0,000  | 29,810   | 7.172,337   |           | 6.899,313   | 10,000     | 454,380    | 122.744,543  |             | 119.319,349  |         |         |
| 962+0,000  | 48,561   | 7.220,898   |           | 6.899,313   | 10,000     | 783,710    | 123.528,253  |             | 119.319,349  |         |         |
| 962+13,615 | 63,956   | 7.284,854   |           | 6.899,313   | 6,808      | 765,959    | 124.294,213  |             | 119.319,349  |         |         |
| 963+0,000  | 72,824   | 7.357,678   |           | 6.899,313   | 3,193      | 436,670    | 124.730,883  |             | 119.319,349  |         |         |
| 964+0,000  | 100,813  | 7.458,491   |           | 6.899,313   | 10,000     | 1.736,370  | 126.467,253  |             | 119.319,349  |         |         |
| 965+0,000  | 115,810  | 7.574,301   |           | 6.899,313   | 10,000     | 2.166,230  | 128.633,483  |             | 119.319,349  |         |         |
| 966+0,000  | 120,385  | 7.694,686   |           | 6.899,313   | 10,000     | 2.361,950  | 130.995,433  |             | 119.319,349  |         |         |
| 967+0,000  | 108,325  | 7.803,011   |           | 6.899,313   | 10,000     | 2.287,100  | 133.282,533  |             | 119.319,349  |         |         |
| 968+0,000  | 91,380   | 7.894,391   |           | 6.899,313   | 10,000     | 1.997,050  | 135.279,583  |             | 119.319,349  |         |         |
| 969+0,000  | 75,972   | 7.970,363   |           | 6.899,313   | 10,000     | 1.673,520  | 136.953,103  |             | 119.319,349  |         |         |
| 970+0,000  | 53,568   | 8.023,931   |           | 6.899,313   | 10,000     | 1.295,400  | 138.248,503  |             | 119.319,349  |         |         |
| 970+15,000 | 39,949   | 8.063,880   |           | 6.899,313   | 7,500      | 701,378    | 138.949,880  |             | 119.319,349  |         |         |
| 971+0,000  | 35,535   | 8.099,415   |           | 6.899,313   | 2,500      | 188,710    | 139.138,590  |             | 119.319,349  |         |         |
| 972+0,000  | 17,913   | 8.117,328   |           | 6.899,313   | 10,000     | 534,480    | 139.673,070  |             | 119.319,349  |         |         |
| 973+0,000  | 6,272    | 8.123,600   | 1,762     | 6.901,075   | 10,000     | 241,850    | 139.914,920  | 17,620      | 119.336,969  | 17,620  |         |
| 974+0,000  | 2,364    | 8.125,964   | 8,726     | 6.909,801   | 10,000     | 86,360     | 140.001,280  | 104,880     | 119.441,849  | 104,880 |         |
| 975+0,000  |          | 8.125,964   | 15,711    | 6.925,512   | 10,000     | 23,640     | 140.024,920  | 244,370     | 119.686,219  | 152,400 | 91,970  |
| 976+0,000  |          | 8.125,964   | 16,109    | 6.941,621   | 10,000     |            | 140.024,920  | 318,200     | 120.004,419  | 152,400 | 165,800 |
| 977+0,000  |          | 8.125,964   | 13,166    | 6.954,787   | 10,000     |            | 140.024,920  | 292,750     | 120.297,169  | 152,400 | 140,350 |
| 978+0,000  |          | 8.125,964   | 8,880     | 6.963,667   | 10,000     |            | 140.024,920  | 220,460     | 120.517,629  | 152,400 | 68,060  |
| 979+0,000  |          | 8.125,964   | 7,339     | 6.971,006   | 10,000     |            | 140.024,920  | 162,190     | 120.679,819  | 152,400 | 9,790   |
| 980+0,000  |          | 8.125,964   | 7,986     | 6.978,992   | 10,000     |            | 140.024,920  | 153,250     | 120.833,069  | 152,400 | 0,850   |
| 981+0,000  |          | 8.125,964   | 7,377     | 6.986,369   | 10,000     |            | 140.024,920  | 153,630     | 120.986,699  | 152,400 | 1,230   |
| 981+4,495  |          | 8.125,964   | 7,482     | 6.993,851   | 2,248      |            | 140.024,920  | 33,396      | 121.020,095  | 33,396  |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca                  | Á. Corte                           | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |  |
|-------------------------|------------------------------------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|--|
| 982+0,000               |                                    | 8.125,964   | 8,997     | 7.002,848   | 7,753      |            | 140.024,920  | 127,753     | 121.147,848  | 127,753 |         |  |
| 982+2,142               |                                    | 8.125,964   | 9,679     | 7.012,527   | 1,071      |            | 140.024,920  | 20,002      | 121.167,850  | 20,002  |         |  |
| 982+10,142              |                                    | 8.125,964   | 12,254    | 7.024,781   | 4,000      |            | 140.024,920  | 87,732      | 121.255,582  | 87,732  |         |  |
| 982+19,789              |                                    | 8.125,964   | 14,398    | 7.039,179   | 4,824      |            | 140.024,920  | 128,556     | 121.384,138  | 128,556 |         |  |
| 983+0,000               |                                    | 8.125,964   | 14,440    | 7.053,619   | 0,106      |            | 140.024,920  | 3,042       | 121.387,180  | 3,042   |         |  |
| 983+2,142               |                                    | 8.125,964   | 14,839    | 7.068,458   | 1,071      |            | 140.024,920  | 31,358      | 121.418,538  | 31,358  |         |  |
| 984+0,000               |                                    | 8.125,964   | 16,488    | 7.084,946   | 8,929      |            | 140.024,920  | 279,719     | 121.698,257  | 152,400 | 127,319 |  |
| 985+0,000               |                                    | 8.125,964   | 18,270    | 7.103,216   | 10,000     |            | 140.024,920  | 347,580     | 122.045,837  | 152,400 | 195,180 |  |
| 986+0,000               |                                    | 8.125,964   | 19,378    | 7.122,594   | 10,000     |            | 140.024,920  | 376,480     | 122.422,317  | 152,400 | 224,080 |  |
| 986+2,000               |                                    | 8.125,964   | 19,204    | 7.141,798   | 1,000      |            | 140.024,920  | 38,582      | 122.460,899  | 38,582  |         |  |
| 987+0,000               |                                    | 8.125,964   | 18,165    | 7.159,963   | 9,000      |            | 140.024,920  | 336,321     | 122.797,220  | 152,400 | 183,921 |  |
| 988+0,000               |                                    | 8.125,964   | 12,243    | 7.172,206   | 10,000     |            | 140.024,920  | 304,080     | 123.101,300  | 152,400 | 151,680 |  |
| 989+0,000               |                                    | 8.125,964   | 9,462     | 7.181,668   | 10,000     |            | 140.024,920  | 217,050     | 123.318,350  | 152,400 | 64,650  |  |
| 990+0,000               |                                    | 8.125,964   | 2,744     | 7.184,412   | 10,000     |            | 140.024,920  | 122,060     | 123.440,410  | 122,060 |         |  |
| 990+8,544               |                                    | 8.125,964   | 0,340     | 7.184,752   | 4,272      |            | 140.024,920  | 13,175      | 123.453,585  | 13,175  |         |  |
| 991+0,000               |                                    | 8.125,964   | 1,473     | 7.186,225   | 5,728      |            | 140.024,920  | 10,385      | 123.463,970  | 10,385  |         |  |
| 992+0,000               |                                    | 8.125,964   | 4,578     | 7.190,803   | 10,000     |            | 140.024,920  | 60,510      | 123.524,480  | 60,510  |         |  |
| 993+0,000               |                                    | 8.125,964   | 11,120    | 7.201,923   | 10,000     |            | 140.024,920  | 156,980     | 123.681,460  | 152,400 | 4,580   |  |
| 993+12,000              |                                    | 8.125,964   | 13,388    | 7.215,311   | 6,000      |            | 140.024,920  | 147,048     | 123.828,508  | 147,048 |         |  |
| 994+0,000               |                                    | 8.125,964   | 13,569    | 7.228,880   | 4,000      |            | 140.024,920  | 107,828     | 123.936,336  | 107,828 |         |  |
| 995+0,000               |                                    | 8.125,964   | 12,560    | 7.241,440   | 10,000     |            | 140.024,920  | 261,290     | 124.197,626  | 152,400 | 108,890 |  |
| 996+0,000               |                                    | 8.125,964   | 10,826    | 7.252,266   | 10,000     |            | 140.024,920  | 233,860     | 124.431,486  | 152,400 | 81,460  |  |
| INTERSEÇÃO 02           |                                    |             |           |             |            |            |              |             |              |         |         |  |
| INTERSEÇÃO 02 - RAMO 01 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 0+0.000                 | Sobreposição com a pista principal |             |           |             |            |            |              |             |              |         |         |  |
| 1+0.000                 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 2+0.000                 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 2+10.000                |                                    | 8.125,964   | 13,249    | 7.265,515   | 5,000      |            | 140.024,920  | 66,245      | 124.497,731  | 66,245  |         |  |
| 3+0.000                 |                                    | 8.125,964   | 10,847    | 7.276,362   | 5,000      |            | 140.024,920  | 120,480     | 124.618,211  | 116,400 | 4,080   |  |
| 4+0.000                 |                                    | 8.125,964   | 4,365     | 7.280,727   | 10,000     |            | 140.024,920  | 152,120     | 124.770,331  | 116,400 | 35,720  |  |
| 4+3.280                 |                                    | 8.125,964   | 2,256     | 7.282,983   | 1,640      |            | 140.024,920  | 10,858      | 124.781,189  | 10,858  |         |  |
| 5+0.000                 |                                    | 8.125,964   |           | 7.282,983   | 8,360      |            | 140.024,920  | 18,860      | 124.800,049  | 18,860  |         |  |
| 6+0.000                 |                                    | 8.125,964   | 0,338     | 7.283,321   | 10,000     |            | 140.024,920  | 3,380       | 124.803,429  | 3,380   |         |  |
| 6+3.280                 | Sobreposição com a Rótula          |             |           |             |            |            |              |             |              |         |         |  |
| 6+19.145                |                                    |             |           |             |            |            |              |             |              |         |         |  |
| INTERSEÇÃO 02 - RAMO 02 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 0+0.000                 | Sobreposição com Ramo 01           |             |           |             |            |            |              |             |              |         |         |  |
| 0+15.000                |                                    | 8.125,964   | 1,605     | 7.284,926   | 7,500      |            | 140.024,920  | 12,038      | 124.815,467  | 12,038  |         |  |
| 0+18.316                |                                    | 8.125,964   | 0,869     | 7.285,795   | 1,658      |            | 140.024,920  | 4,102       | 124.819,569  | 4,102   |         |  |
| 0+20.000                |                                    | 8.125,964   | 0,594     | 7.286,389   | 0,842      |            | 140.024,920  | 1,232       | 124.820,801  | 1,232   |         |  |
| 1+2.938                 |                                    | 8.125,964   | 0,712     | 7.287,101   | 1,469      |            | 140.024,920  | 1,919       | 124.822,719  | 1,919   |         |  |
| 1+6.200                 |                                    | 8.125,964   | 1,556     | 7.288,657   | 1,631      |            | 140.024,920  | 3,699       | 124.826,418  | 3,699   |         |  |
| 1+20.000                |                                    | 8.125,964   | 5,287     | 7.293,944   | 6,900      |            | 140.024,920  | 47,217      | 124.873,635  | 47,217  |         |  |
| 2+5.875                 |                                    | 8.125,964   | 2,145     | 7.296,089   | 2,938      |            | 140.024,920  | 21,832      | 124.895,466  | 21,832  |         |  |
| INTERSEÇÃO 02 - RAMO 03 |                                    |             |           |             |            |            |              |             |              |         |         |  |
| 0+0.000                 |                                    | 8.125,964   | 4,537     | 7.300,626   | 0,000      |            | 140.024,920  |             | 124.895,466  |         |         |  |
| 1+0.000                 |                                    | 8.125,964   | 9,512     | 7.310,138   | 10,000     |            | 140.024,920  | 140,490     | 125.035,956  | 116,400 | 24,090  |  |
| 2+0.000                 |                                    | 8.125,964   | 6,792     | 7.316,930   | 10,000     |            | 140.024,920  | 163,040     | 125.198,996  | 116,400 | 46,640  |  |
| 2+9.479                 |                                    | 8.125,964   | 4,536     | 7.321,466   | 4,740      |            | 140.024,920  | 53,689      | 125.252,685  | 53,689  |         |  |
| 2+10.000                |                                    | 8.125,964   | 4,379     | 7.325,845   | 0,261      |            | 140.024,920  | 2,322       | 125.255,008  | 2,322   |         |  |
| 3+0.000                 | Sobreposição com a Rótula          |             |           |             |            |            |              |             |              |         |         |  |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca                   | Á. Corte                           | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|--------------------------|------------------------------------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 4+0.000                  |                                    | 8.125,964   | 0,449     | 7.326,294   | 10,000     |            | 140.024,920  | 4,490       | 125.259,498  | 4,490   |         |
| 4+9.479                  |                                    | 8.125,964   | 1,828     | 7.328,122   | 4,740      |            | 140.024,920  | 10,792      | 125.270,290  | 10,792  |         |
| 5+0.000                  |                                    | 8.125,964   | 3,166     | 7.331,288   | 5,261      |            | 140.024,920  | 26,271      | 125.296,561  | 26,271  |         |
| 5+10.000                 |                                    | 8.125,964   | 2,413     | 7.333,701   | 5,000      |            | 140.024,920  | 27,895      | 125.324,456  | 27,895  |         |
| 6+0.000                  |                                    | 8.125,964   | 2,204     | 7.335,905   | 5,000      |            | 140.024,920  | 23,085      | 125.347,541  | 23,085  |         |
| 7+0.000                  |                                    | 8.125,964   | 11,962    | 7.347,867   | 10,000     |            | 140.024,920  | 141,660     | 125.489,201  | 116,400 | 25,260  |
| 8+0.000                  |                                    | 8.125,964   | 2,369     | 7.350,236   | 10,000     |            | 140.024,920  | 143,310     | 125.632,511  | 116,400 | 26,910  |
| 8+10.000                 |                                    | 8.125,964   | 2,274     | 7.352,510   | 5,000      |            | 140.024,920  | 23,215      | 125.655,726  | 23,215  |         |
| 8+15.000                 |                                    | 8.125,964   | 2,283     | 7.354,793   | 2,500      |            | 140.024,920  | 11,393      | 125.667,118  | 11,393  |         |
| 9+0,000                  | Sobreposição com a pista principal |             |           |             |            |            |              |             |              |         |         |
| 10+0,000                 |                                    |             |           |             |            |            |              |             |              |         |         |
| 11+0,000                 |                                    |             |           |             |            |            |              |             |              |         |         |
| 12+0,000                 |                                    |             |           |             |            |            |              |             |              |         |         |
| 12+1,777                 |                                    |             |           |             |            |            |              |             |              |         |         |
| INTERSEÇÃO 02 - RÓTULA   |                                    |             |           |             |            |            |              |             |              |         |         |
| 0+0.000                  | Sobreposição com a pista principal |             |           |             |            |            |              |             |              |         |         |
| 0+12.000                 |                                    | 8.125,964   | 5,817     | 7.360,610   | 6,000      |            | 140.024,920  | 34,902      | 125.702,020  | 34,902  |         |
| 1+0.000                  | 6,160                              | 8.132,124   |           | 7.360,610   | 4,000      | 24,640     | 140.049,560  | 23,268      | 125.725,288  | 23,268  |         |
| 1+0.147                  | 6,405                              | 8.138,529   |           | 7.360,610   | 0,074      | 0,924      | 140.050,484  |             | 125.725,288  |         |         |
| 2+0.000                  | 2,001                              | 8.140,530   | 0,745     | 7.361,355   | 9,927      | 83,442     | 140.133,926  | 7,395       | 125.732,683  | 7,395   |         |
| 2+0.294                  | 1,947                              | 8.142,477   | 0,736     | 7.362,091   | 0,147      | 0,580      | 140.134,506  | 0,218       | 125.732,901  | 0,218   |         |
| 2+13.851                 | 1,363                              | 8.143,840   | 0,698     | 7.362,789   | 6,779      | 22,437     | 140.156,943  | 9,720       | 125.742,621  | 9,720   |         |
| 3+0.000                  | 1,343                              | 8.145,183   | 1,199     | 7.363,988   | 3,075      | 8,320      | 140.165,263  | 5,832       | 125.748,454  | 5,832   |         |
| 3+7.408                  | 0,842                              | 8.146,025   | 2,130     | 7.366,118   | 3,704      | 8,093      | 140.173,356  | 12,331      | 125.760,784  | 12,331  |         |
| 4+0.000                  | 0,291                              | 8.146,316   | 5,130     | 7.371,248   | 6,296      | 7,133      | 140.180,489  | 45,709      | 125.806,493  | 45,709  |         |
| 4+7.169                  | 1,486                              | 8.147,802   | 0,050     | 7.371,298   | 3,585      | 6,370      | 140.186,859  | 18,568      | 125.825,061  | 18,568  |         |
| 4+15.000                 |                                    | 8.147,802   | 3,195     | 7.374,493   | 3,916      | 5,818      | 140.192,677  | 12,706      | 125.837,767  | 12,706  |         |
| 5+0.000                  | Sobreposição com a pista principal |             |           |             |            |            |              |             |              |         |         |
| 5+6.931                  |                                    |             |           |             |            |            |              |             |              |         |         |
| CONTINUAÇÃO PISTA RO-010 |                                    |             |           |             |            |            |              |             |              |         |         |
| 997+0,000                |                                    | 8.147,802   | 6,333     | 7.380,826   | 10,000     |            | 140.192,677  | 63,330      | 125.901,097  | 63,330  |         |
| 997+14,945               |                                    | 8.147,802   | 5,014     | 7.385,840   | 7,473      |            | 140.192,677  | 84,790      | 125.985,887  | 84,790  |         |
| 997+17,298               |                                    | 8.147,802   | 5,296     | 7.391,136   | 1,177      |            | 140.192,677  | 12,130      | 125.998,017  | 12,130  |         |
| 998+0,000                |                                    | 8.147,802   | 5,340     | 7.396,476   | 1,351      |            | 140.192,677  | 14,369      | 126.012,386  | 14,369  |         |
| 998+6,945                |                                    | 8.147,802   | 4,922     | 7.401,398   | 3,473      |            | 140.192,677  | 35,635      | 126.048,021  | 35,635  |         |
| 998+14,945               |                                    | 8.147,802   | 3,712     | 7.405,110   | 4,000      |            | 140.192,677  | 34,536      | 126.082,557  | 34,536  |         |
| 999+0,000                |                                    | 8.147,802   | 4,779     | 7.409,889   | 2,528      |            | 140.192,677  | 21,461      | 126.104,018  | 21,461  |         |
| 999+12,592               |                                    | 8.147,802   | 6,177     | 7.416,066   | 6,296      |            | 140.192,677  | 68,979      | 126.172,997  | 68,979  |         |
| 1000+0,000               |                                    | 8.147,802   | 7,893     | 7.423,959   | 3,704      |            | 140.192,677  | 52,115      | 126.225,112  | 52,115  |         |
| 1001+0,000               |                                    | 8.147,802   | 9,431     | 7.433,390   | 10,000     |            | 140.192,677  | 173,240     | 126.398,352  | 152,400 | 20,840  |
| 1002+0,000               |                                    | 8.147,802   | 10,507    | 7.443,897   | 10,000     |            | 140.192,677  | 199,380     | 126.597,732  | 152,400 | 46,980  |
| 1003+0,000               |                                    | 8.147,802   | 10,824    | 7.454,721   | 10,000     |            | 140.192,677  | 213,310     | 126.811,042  | 152,400 | 60,910  |
| 1004+0,000               |                                    | 8.147,802   | 10,864    | 7.465,585   | 10,000     |            | 140.192,677  | 216,880     | 127.027,922  | 152,400 | 64,480  |
| 1005+0,000               |                                    | 8.147,802   | 15,025    | 7.480,610   | 10,000     |            | 140.192,677  | 258,890     | 127.286,812  | 152,400 | 106,490 |
| 1006+0,000               |                                    | 8.147,802   | 29,633    | 7.510,243   | 10,000     |            | 140.192,677  | 446,580     | 127.733,392  | 152,400 | 294,180 |
| 1007+0,000               |                                    | 8.147,802   | 12,273    | 7.522,516   | 10,000     |            | 140.192,677  | 419,060     | 128.152,452  | 152,400 | 266,660 |
| 1008+0,000               |                                    | 8.147,802   | 2,352     | 7.524,868   | 10,000     |            | 140.192,677  | 146,250     | 128.298,702  | 146,250 |         |
| 1008+11,046              | 1,344                              | 8.149,146   | 0,292     | 7.525,160   | 5,523      | 7,423      | 140.200,100  | 14,603      | 128.313,305  | 14,603  |         |
| 1009+0,000               | 3,684                              | 8.152,830   | 0,033     | 7.525,193   | 4,477      | 22,510     | 140.222,611  | 1,455       | 128.314,760  | 1,455   |         |
| 1010+0,000               | 7,065                              | 8.159,895   |           | 7.525,193   | 10,000     | 107,490    | 140.330,101  | 0,330       | 128.315,090  | 0,330   |         |
| 1011+0,000               | 11,531                             | 8.171,426   |           | 7.525,193   | 10,000     | 185,960    | 140.516,061  |             | 128.315,090  |         |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca      | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|-------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 1012+0,000  | 20,007   | 8.191,433   |           | 7.525,193   | 10,000     | 315,380    | 140.831,441  |             | 128.315,090  |         |         |
| 1012+1,046  | 20,571   | 8.212,004   |           | 7.525,193   | 0,523      | 21,222     | 140.852,663  |             | 128.315,090  |         |         |
| 1013+0,000  | 24,489   | 8.236,493   |           | 7.525,193   | 9,477      | 427,034    | 141.279,697  |             | 128.315,090  |         |         |
| 1014+0,000  | 26,217   | 8.262,710   |           | 7.525,193   | 10,000     | 507,060    | 141.786,757  |             | 128.315,090  |         |         |
| 1014+1,054  | 26,516   | 8.289,226   |           | 7.525,193   | 0,527      | 27,790     | 141.814,547  |             | 128.315,090  |         |         |
| 1015+0,000  | 22,214   | 8.311,440   |           | 7.525,193   | 9,473      | 461,619    | 142.276,166  |             | 128.315,090  |         |         |
| 1016+0,000  | 16,330   | 8.327,770   |           | 7.525,193   | 10,000     | 385,440    | 142.661,606  |             | 128.315,090  |         |         |
| 1017+0,000  | 9,531    | 8.337,301   |           | 7.525,193   | 10,000     | 258,610    | 142.920,216  |             | 128.315,090  |         |         |
| 1017+11,054 | 7,714    | 8.345,015   |           | 7.525,193   | 5,527      | 95,313     | 143.015,529  |             | 128.315,090  |         |         |
| 1018+0,000  | 6,426    | 8.351,441   |           | 7.525,193   | 4,473      | 63,248     | 143.078,778  |             | 128.315,090  |         |         |
| 1019+0,000  | 3,636    | 8.355,077   |           | 7.525,193   | 10,000     | 100,620    | 143.179,398  |             | 128.315,090  |         |         |
| 1020+0,000  | 1,914    | 8.356,991   | 0,436     | 7.525,629   | 10,000     | 55,500     | 143.234,898  | 4,360       | 128.319,450  | 4,360   |         |
| 1021+0,000  |          | 8.356,991   | 3,652     | 7.529,281   | 10,000     | 19,140     | 143.254,038  | 40,880      | 128.360,330  | 40,880  |         |
| 1022+0,000  |          | 8.356,991   | 9,252     | 7.538,533   | 10,000     |            | 143.254,038  | 129,040     | 128.489,370  | 129,040 |         |
| 1023+0,000  |          | 8.356,991   | 9,708     | 7.548,241   | 10,000     |            | 143.254,038  | 189,600     | 128.678,970  | 152,400 | 37,200  |
| 1024+0,000  |          | 8.356,991   | 10,367    | 7.558,608   | 10,000     |            | 143.254,038  | 200,750     | 128.879,720  | 152,400 | 48,350  |
| 1025+0,000  |          | 8.356,991   | 11,670    | 7.570,278   | 10,000     |            | 143.254,038  | 220,370     | 129.100,090  | 152,400 | 67,970  |
| 1025+5,000  |          | 8.356,991   | 11,623    | 7.581,901   | 2,500      |            | 143.254,038  | 58,233      | 129.158,323  | 58,233  |         |
| 1026+0,000  |          | 8.356,991   | 10,584    | 7.592,485   | 7,500      |            | 143.254,038  | 166,553     | 129.324,875  | 152,400 | 14,153  |
| 1027+0,000  |          | 8.356,991   | 7,077     | 7.599,562   | 10,000     |            | 143.254,038  | 176,610     | 129.501,485  | 152,400 | 24,210  |
| 1028+0,000  |          | 8.356,991   | 7,599     | 7.607,161   | 10,000     |            | 143.254,038  | 146,760     | 129.648,245  | 146,760 |         |
| 1028+9,080  |          | 8.356,991   | 10,265    | 7.617,426   | 4,540      |            | 143.254,038  | 81,103      | 129.729,348  | 81,103  |         |
| 1029+0,000  |          | 8.356,991   | 12,496    | 7.629,922   | 5,460      |            | 143.254,038  | 124,275     | 129.853,623  | 124,275 |         |
| 1030+0,000  |          | 8.356,991   | 11,897    | 7.641,819   | 10,000     |            | 143.254,038  | 243,930     | 130.097,553  | 152,400 | 91,530  |
| 1031+0,000  |          | 8.356,991   | 11,855    | 7.653,674   | 10,000     |            | 143.254,038  | 237,520     | 130.335,073  | 152,400 | 85,120  |
| 1032+0,000  |          | 8.356,991   | 7,318     | 7.660,992   | 10,000     |            | 143.254,038  | 191,730     | 130.526,803  | 152,400 | 39,330  |
| 1033+0,000  |          | 8.356,991   | 9,127     | 7.670,119   | 10,000     |            | 143.254,038  | 164,450     | 130.691,253  | 152,400 | 12,050  |
| 1034+0,000  |          | 8.356,991   | 10,758    | 7.680,877   | 10,000     |            | 143.254,038  | 198,850     | 130.890,103  | 152,400 | 46,450  |
| 1035+0,000  |          | 8.356,991   | 7,955     | 7.688,832   | 10,000     |            | 143.254,038  | 187,130     | 131.077,233  | 152,400 | 34,730  |
| 1035+5,000  |          | 8.356,991   | 8,248     | 7.697,080   | 2,500      |            | 143.254,038  | 40,508      | 131.117,740  | 40,508  |         |
| 1036+0,000  |          | 8.356,991   | 9,604     | 7.706,684   | 7,500      |            | 143.254,038  | 133,890     | 131.251,630  | 133,890 |         |
| 1037+0,000  |          | 8.356,991   | 11,194    | 7.717,878   | 10,000     |            | 143.254,038  | 207,980     | 131.459,610  | 152,400 | 55,580  |
| 1038+0,000  |          | 8.356,991   | 12,916    | 7.730,794   | 10,000     |            | 143.254,038  | 241,100     | 131.700,710  | 152,400 | 88,700  |
| 1039+0,000  |          | 8.356,991   | 13,862    | 7.744,656   | 10,000     |            | 143.254,038  | 267,780     | 131.968,490  | 152,400 | 115,380 |
| 1040+0,000  |          | 8.356,991   | 13,594    | 7.758,250   | 10,000     |            | 143.254,038  | 274,560     | 132.243,050  | 152,400 | 122,160 |
| 1041+0,000  |          | 8.356,991   | 11,744    | 7.769,994   | 10,000     |            | 143.254,038  | 253,380     | 132.496,430  | 152,400 | 100,980 |
| 1042+0,000  |          | 8.356,991   | 10,619    | 7.780,613   | 10,000     |            | 143.254,038  | 223,630     | 132.720,060  | 152,400 | 71,230  |
| 1043+0,000  |          | 8.356,991   | 6,742     | 7.787,355   | 10,000     |            | 143.254,038  | 173,610     | 132.893,670  | 152,400 | 21,210  |
| 1044+0,000  |          | 8.356,991   | 8,776     | 7.796,131   | 10,000     |            | 143.254,038  | 155,180     | 133.048,850  | 152,400 | 2,780   |
| 1045+0,000  |          | 8.356,991   | 9,199     | 7.805,330   | 10,000     |            | 143.254,038  | 179,750     | 133.228,600  | 152,400 | 27,350  |
| 1046+0,000  |          | 8.356,991   | 7,543     | 7.812,873   | 10,000     |            | 143.254,038  | 167,420     | 133.396,020  | 152,400 | 15,020  |
| 1047+0,000  |          | 8.356,991   | 4,251     | 7.817,124   | 10,000     |            | 143.254,038  | 117,940     | 133.513,960  | 117,940 |         |
| 1048+0,000  |          | 8.356,991   | 5,456     | 7.822,580   | 10,000     |            | 143.254,038  | 97,070      | 133.611,030  | 97,070  |         |
| 1049+0,000  |          | 8.356,991   | 3,366     | 7.825,946   | 10,000     |            | 143.254,038  | 88,220      | 133.699,250  | 88,220  |         |
| 1050+0,000  |          | 8.356,991   | 6,227     | 7.832,173   | 10,000     |            | 143.254,038  | 95,930      | 133.795,180  | 95,930  |         |
| 1051+0,000  |          | 8.356,991   | 5,740     | 7.837,913   | 10,000     |            | 143.254,038  | 119,670     | 133.914,850  | 119,670 |         |
| 1052+0,000  | 1,013    | 8.358,004   | 2,881     | 7.840,794   | 10,000     | 10,130     | 143.264,168  | 86,210      | 134.001,060  | 86,210  |         |
| 1053+0,000  | 2,455    | 8.360,459   | 2,500     | 7.843,294   | 10,000     | 34,680     | 143.298,848  | 53,810      | 134.054,870  | 53,810  |         |
| 1054+0,000  | 2,367    | 8.362,826   | 1,066     | 7.844,360   | 10,000     | 48,220     | 143.347,068  | 35,660      | 134.090,530  | 35,660  |         |
| 1055+0,000  | 2,434    | 8.365,260   |           | 7.844,360   | 10,000     | 48,010     | 143.395,078  | 10,660      | 134.101,190  | 10,660  |         |
| 1056+0,000  | 3,719    | 8.368,979   |           | 7.844,360   | 10,000     | 61,530     | 143.456,608  |             | 134.101,190  |         |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca      | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|-------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 1057+0,000  | 4,004    | 8.372,983   |           | 7.844,360   | 10,000     | 77,230     | 143.533,838  |             | 134.101,190  |         |         |
| 1058+0,000  | 5,211    | 8.378,194   |           | 7.844,360   | 10,000     | 92,150     | 143.625,988  |             | 134.101,190  |         |         |
| 1059+0,000  | 8,348    | 8.386,542   |           | 7.844,360   | 10,000     | 135,590    | 143.761,578  |             | 134.101,190  |         |         |
| 1060+0,000  | 10,867   | 8.397,409   |           | 7.844,360   | 10,000     | 192,150    | 143.953,728  |             | 134.101,190  |         |         |
| 1061+0,000  | 9,748    | 8.407,157   |           | 7.844,360   | 10,000     | 206,150    | 144.159,878  |             | 134.101,190  |         |         |
| 1062+0,000  | 6,935    | 8.414,092   |           | 7.844,360   | 10,000     | 166,830    | 144.326,708  |             | 134.101,190  |         |         |
| 1063+0,000  | 6,808    | 8.420,900   | 0,327     | 7.844,687   | 10,000     | 137,430    | 144.464,138  | 3,270       | 134.104,460  | 3,270   |         |
| 1064+0,000  | 10,039   | 8.430,939   | 0,720     | 7.845,407   | 10,000     | 168,470    | 144.632,608  | 10,470      | 134.114,930  | 10,470  |         |
| 1065+0,000  | 7,787    | 8.438,726   | 0,871     | 7.846,278   | 10,000     | 178,260    | 144.810,868  | 15,910      | 134.130,840  | 15,910  |         |
| 1066+0,000  | 4,254    | 8.442,980   | 1,507     | 7.847,785   | 10,000     | 120,410    | 144.931,278  | 23,780      | 134.154,620  | 23,780  |         |
| 1067+0,000  | 6,307    | 8.449,287   | 0,881     | 7.848,666   | 10,000     | 105,610    | 145.036,888  | 23,880      | 134.178,500  | 23,880  |         |
| 1068+0,000  | 5,878    | 8.455,165   | 0,080     | 7.848,746   | 10,000     | 121,850    | 145.158,738  | 9,610       | 134.188,110  | 9,610   |         |
| 1069+0,000  | 6,854    | 8.462,019   | 0,155     | 7.848,901   | 10,000     | 127,320    | 145.286,058  | 2,350       | 134.190,460  | 2,350   |         |
| 1069+12,000 | 11,471   | 8.473,490   |           | 7.848,901   | 6,000      | 109,950    | 145.396,008  | 0,930       | 134.191,390  | 0,930   |         |
| 1070+0,000  | 12,772   | 8.486,262   |           | 7.848,901   | 4,000      | 96,972     | 145.492,980  |             | 134.191,390  |         |         |
| 1071+0,000  | 21,483   | 8.507,745   |           | 7.848,901   | 10,000     | 342,550    | 145.835,530  |             | 134.191,390  |         |         |
| 1072+0,000  | 40,446   | 8.548,191   |           | 7.848,901   | 10,000     | 619,290    | 146.454,820  |             | 134.191,390  |         |         |
| 1073+0,000  | 79,888   | 8.628,079   |           | 7.848,901   | 10,000     | 1.203,340  | 147.658,160  |             | 134.191,390  |         |         |
| 1074+0,000  | 148,687  | 8.776,766   |           | 7.848,901   | 10,000     | 2.285,750  | 149.943,910  |             | 134.191,390  |         |         |
| 1075+0,000  |          | 8.776,766   |           | 7.848,901   | 10,000     | 1.486,870  | 151.430,780  |             | 134.191,390  |         |         |
| 1075+1,421  | 168,068  | 8.944,834   |           | 7.848,901   | 0,711      | 119,412    | 151.550,192  |             | 134.191,390  |         |         |
| 1075+1,421  | 168,067  | 9.112,901   |           | 7.848,901   | 0,000      |            | 151.550,192  |             | 134.191,390  |         |         |
| 1076+0,000  | 170,929  | 9.283,830   |           | 7.848,901   | 9,290      | 3.149,103  | 154.699,295  |             | 134.191,390  |         |         |
| 1076+4,726  | 170,330  | 9.454,160   |           | 7.848,901   | 2,363      | 806,395    | 155.505,690  |             | 134.191,390  |         |         |
| 1077+0,000  | 168,042  | 9.622,202   |           | 7.848,901   | 7,637      | 2.584,147  | 158.089,837  |             | 134.191,390  |         |         |
| 1078+0,000  | 137,501  | 9.759,703   |           | 7.848,901   | 10,000     | 3.055,430  | 161.145,267  |             | 134.191,390  |         |         |
| 1078+11,421 | 111,416  | 9.871,119   |           | 7.848,901   | 5,711      | 1.421,441  | 162.566,708  |             | 134.191,390  |         |         |
| 1078+11,421 | 111,415  | 9.982,534   |           | 7.848,901   | 0,000      |            | 162.566,708  |             | 134.191,390  |         |         |
| 1079+0,000  | 93,770   | 10.076,304  |           | 7.848,901   | 4,290      | 880,141    | 163.446,849  |             | 134.191,390  |         |         |
| 1080+0,000  | 48,087   | 10.124,391  |           | 7.848,901   | 10,000     | 1.418,570  | 164.865,419  |             | 134.191,390  |         |         |
| 1080+11,406 | 31,539   | 10.155,930  |           | 7.848,901   | 5,703      | 454,107    | 165.319,526  |             | 134.191,390  |         |         |
| 1080+11,413 | 31,533   | 10.187,463  |           | 7.848,901   | 0,004      | 0,221      | 165.319,747  |             | 134.191,390  |         |         |
| 1081+0,000  | 23,093   | 10.210,556  |           | 7.848,901   | 4,294      | 234,537    | 165.554,283  |             | 134.191,390  |         |         |
| 1081+12,000 | 14,848   | 10.225,404  |           | 7.848,901   | 6,000      | 227,646    | 165.781,929  |             | 134.191,390  |         |         |
| 1082+0,000  | 11,220   | 10.236,624  |           | 7.848,901   | 4,000      | 104,272    | 165.886,201  |             | 134.191,390  |         |         |
| 1082+1,847  | 10,501   | 10.247,125  |           | 7.848,901   | 0,924      | 20,059     | 165.906,261  |             | 134.191,390  |         |         |
| 1082+6,990  | 9,711    | 10.256,836  |           | 7.848,901   | 2,572      | 51,975     | 165.958,236  |             | 134.191,390  |         |         |
| 1082+6,991  | 9,711    | 10.266,547  |           | 7.848,901   | 0,001      | 0,010      | 165.958,246  |             | 134.191,390  |         |         |
| 1082+12,528 | 7,469    | 10.274,016  |           | 7.848,901   | 2,769      | 47,563     | 166.005,808  |             | 134.191,390  |         |         |
| 1082+12,530 | 7,468    | 10.281,484  |           | 7.848,901   | 0,001      | 0,015      | 166.005,823  |             | 134.191,390  |         |         |
| 1083+0,000  | 4,880    | 10.286,364  | 0,271     | 7.849,172   | 3,735      | 46,120     | 166.051,943  | 1,012       | 134.192,402  | 1,012   |         |
| 1083+6,374  | 3,412    | 10.289,776  | 0,536     | 7.849,708   | 3,187      | 26,427     | 166.078,370  | 2,572       | 134.194,974  | 2,572   |         |
| 1083+6,378  | 3,411    | 10.293,187  | 0,536     | 7.850,244   | 0,002      | 0,014      | 166.078,383  | 0,002       | 134.194,976  | 0,002   |         |
| 1083+12,308 | 3,264    | 10.296,451  | 0,578     | 7.850,822   | 2,965      | 19,791     | 166.098,175  | 3,303       | 134.198,279  | 3,303   |         |
| 1083+12,313 | 3,263    | 10.299,714  | 0,578     | 7.851,400   | 0,003      | 0,016      | 166.098,191  | 0,003       | 134.198,282  | 0,003   |         |
| 1084+0,000  | 3,043    | 10.302,757  | 0,891     | 7.852,291   | 3,844      | 24,237     | 166.122,428  | 5,646       | 134.203,928  | 5,646   |         |
| 1084+1,406  | 2,980    | 10.305,737  | 0,961     | 7.853,252   | 0,703      | 4,234      | 166.126,662  | 1,302       | 134.205,230  | 1,302   |         |
| 1085+0,000  | 1,958    | 10.307,695  | 1,617     | 7.854,869   | 9,297      | 45,909     | 166.172,571  | 23,968      | 134.229,198  | 23,968  |         |
| 1086+0,000  | 2,136    | 10.309,831  | 0,763     | 7.855,632   | 10,000     | 40,940     | 166.213,511  | 23,800      | 134.252,998  | 23,800  |         |
| 1086+10,084 | 0,106    | 10.309,937  | 2,768     | 7.858,400   | 5,042      | 11,304     | 166.224,815  | 17,803      | 134.270,801  | 17,803  |         |
| 1087+0,000  | 0,396    | 10.310,333  | 3,382     | 7.861,782   | 4,958      | 2,489      | 166.227,304  | 30,492      | 134.301,293  | 30,492  |         |



### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca      | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|-------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 1087+9,864  |          | 10.310,333  | 2,958     | 7.864,740   | 4,932      | 1,953      | 166.229,257  | 31,269      | 134.332,562  | 31,269  |         |
| 1087+9,867  |          | 10.310,333  | 2,958     | 7.867,698   | 0,002      |            | 166.229,257  | 0,009       | 134.332,571  | 0,009   |         |
| 1088+0,000  | 0,350    | 10.310,683  | 1,770     | 7.869,468   | 5,067      | 1,773      | 166.231,030  | 23,954      | 134.356,525  | 23,954  |         |
| 1089+0,000  | 3,269    | 10.313,952  | 0,380     | 7.869,848   | 10,000     | 36,190     | 166.267,220  | 21,500      | 134.378,025  | 21,500  |         |
| 1090+0,000  | 6,949    | 10.320,901  |           | 7.869,848   | 10,000     | 102,180    | 166.369,400  | 3,800       | 134.381,825  | 3,800   |         |
| 1090+18,321 | 7,730    | 10.328,631  |           | 7.869,848   | 9,161      | 134,467    | 166.503,867  |             | 134.381,825  |         |         |
| 1091+0,000  | 7,432    | 10.336,063  |           | 7.869,848   | 0,840      | 12,728     | 166.516,596  |             | 134.381,825  |         |         |
| 1092+0,000  | 5,129    | 10.341,192  | 0,019     | 7.869,867   | 10,000     | 125,610    | 166.642,206  | 0,190       | 134.382,015  | 0,190   |         |
| 1092+5,000  | 4,258    | 10.345,450  | 0,127     | 7.869,994   | 2,500      | 23,468     | 166.665,673  | 0,365       | 134.382,380  | 0,365   |         |
| 1093+0,000  | 2,486    | 10.347,936  | 0,918     | 7.870,912   | 7,500      | 50,580     | 166.716,253  | 7,838       | 134.390,218  | 7,838   |         |
| 1094+0,000  | 0,747    | 10.348,683  | 2,383     | 7.873,295   | 10,000     | 32,330     | 166.748,583  | 33,010      | 134.423,228  | 33,010  |         |
| 1095+0,000  |          | 10.348,683  | 2,967     | 7.876,262   | 10,000     | 7,470      | 166.756,053  | 53,500      | 134.476,728  | 53,500  |         |
| 1096+0,000  |          | 10.348,683  | 8,620     | 7.884,882   | 10,000     |            | 166.756,053  | 115,870     | 134.592,598  | 115,870 |         |
| 1097+0,000  |          | 10.348,683  | 12,878    | 7.897,760   | 10,000     |            | 166.756,053  | 214,980     | 134.807,578  | 152,400 | 62,580  |
| 1098+0,000  |          | 10.348,683  | 17,534    | 7.915,294   | 10,000     |            | 166.756,053  | 304,120     | 135.111,698  | 152,400 | 151,720 |
| 1099+0,000  |          | 10.348,683  | 17,463    | 7.932,757   | 10,000     |            | 166.756,053  | 349,970     | 135.461,668  | 152,400 | 197,570 |
| 1099+18,734 |          | 10.348,683  | 18,118    | 7.950,875   | 9,367      |            | 166.756,053  | 333,287     | 135.794,955  | 152,400 | 180,887 |
| 1100+0,000  |          | 10.348,683  | 19,043    | 7.969,918   | 0,633      |            | 166.756,053  | 23,523      | 135.818,478  | 23,523  |         |
| 1101+0,000  |          | 10.348,683  | 20,828    | 7.990,746   | 10,000     |            | 166.756,053  | 398,710     | 136.217,188  | 152,400 | 246,310 |
| 1102+0,000  |          | 10.348,683  | 21,044    | 8.011,790   | 10,000     |            | 166.756,053  | 418,720     | 136.635,908  | 152,400 | 266,320 |
| 1103+0,000  |          | 10.348,683  | 18,490    | 8.030,280   | 10,000     |            | 166.756,053  | 395,340     | 137.031,248  | 152,400 | 242,940 |
| 1104+0,000  |          | 10.348,683  | 13,408    | 8.043,688   | 10,000     |            | 166.756,053  | 318,980     | 137.350,228  | 152,400 | 166,580 |
| 1104+5,000  |          | 10.348,683  | 11,051    | 8.054,739   | 2,500      |            | 166.756,053  | 61,148      | 137.411,375  | 61,148  |         |
| 1105+0,000  |          | 10.348,683  | 10,937    | 8.065,676   | 7,500      |            | 166.756,053  | 164,910     | 137.576,285  | 152,400 | 12,510  |
| 1106+0,000  |          | 10.348,683  | 7,191     | 8.072,867   | 10,000     |            | 166.756,053  | 181,280     | 137.757,565  | 152,400 | 28,880  |
| 1107+0,000  |          | 10.348,683  | 4,875     | 8.077,742   | 10,000     |            | 166.756,053  | 120,660     | 137.878,225  | 120,660 |         |
| 1108+0,000  |          | 10.348,683  | 1,090     | 8.078,832   | 10,000     |            | 166.756,053  | 59,650      | 137.937,875  | 59,650  |         |
| 1109+0,000  | 0,134    | 10.348,817  | 0,829     | 8.079,661   | 10,000     | 1,340      | 166.757,393  | 19,190      | 137.957,065  | 19,190  |         |
| 1109+18,000 | 0,311    | 10.349,128  | 0,996     | 8.080,657   | 9,000      | 4,005      | 166.761,398  | 16,425      | 137.973,490  | 16,425  |         |
| 1110+0,000  | 0,444    | 10.349,572  | 0,936     | 8.081,593   | 1,000      | 0,755      | 166.762,153  | 1,932       | 137.975,422  | 1,932   |         |
| 1111+0,000  | 1,417    | 10.350,989  | 0,289     | 8.081,882   | 10,000     | 18,610     | 166.780,763  | 12,250      | 137.987,672  | 12,250  |         |
| 1112+0,000  | 0,554    | 10.351,543  | 0,853     | 8.082,735   | 10,000     | 19,710     | 166.800,473  | 11,420      | 137.999,092  | 11,420  |         |
| 1113+0,000  | 1,341    | 10.352,884  | 0,301     | 8.083,036   | 10,000     | 18,950     | 166.819,423  | 11,540      | 138.010,632  | 11,540  |         |
| 1114+0,000  | 2,178    | 10.355,062  | 0,032     | 8.083,068   | 10,000     | 35,190     | 166.854,613  | 3,330       | 138.013,962  | 3,330   |         |
| 1115+0,000  | 3,639    | 10.358,701  | 0,088     | 8.083,156   | 10,000     | 58,170     | 166.912,783  | 1,200       | 138.015,162  | 1,200   |         |
| 1116+0,000  | 3,637    | 10.362,338  | 0,096     | 8.083,252   | 10,000     | 72,760     | 166.985,543  | 1,840       | 138.017,002  | 1,840   |         |
| 1116+18,000 | 3,857    | 10.366,195  | 0,063     | 8.083,315   | 9,000      | 67,446     | 167.052,989  | 1,431       | 138.018,433  | 1,431   |         |
| 1117+0,000  | 3,720    | 10.369,915  | 0,063     | 8.083,378   | 1,000      | 7,577      | 167.060,566  | 0,126       | 138.018,559  | 0,126   |         |
| 1118+0,000  | 2,979    | 10.372,894  |           | 8.083,378   | 10,000     | 66,990     | 167.127,556  | 0,630       | 138.019,189  | 0,630   |         |
| 1119+0,000  | 1,802    | 10.374,696  |           | 8.083,378   | 10,000     | 47,810     | 167.175,366  |             | 138.019,189  |         |         |
| 1120+0,000  | 1,171    | 10.375,867  | 0,465     | 8.083,843   | 10,000     | 29,730     | 167.205,096  | 4,650       | 138.023,839  | 4,650   |         |
| 1121+0,000  |          | 10.375,867  | 1,646     | 8.085,489   | 10,000     | 11,710     | 167.216,806  | 21,110      | 138.044,949  | 21,110  |         |
| 1122+0,000  |          | 10.375,867  | 10,056    | 8.095,545   | 10,000     |            | 167.216,806  | 117,020     | 138.161,969  | 117,020 |         |
| 1123+0,000  |          | 10.375,867  | 18,561    | 8.114,106   | 10,000     |            | 167.216,806  | 286,170     | 138.448,139  | 152,400 | 133,770 |
| 1124+0,000  |          | 10.375,867  | 27,993    | 8.142,099   | 10,000     |            | 167.216,806  | 465,540     | 138.913,679  | 152,400 | 313,140 |
| 1125+0,000  |          | 10.375,867  | 35,896    | 8.177,995   | 10,000     |            | 167.216,806  | 638,890     | 139.552,569  | 152,400 | 486,490 |
| 1126+0,000  |          | 10.375,867  | 37,940    | 8.215,935   | 10,000     |            | 167.216,806  | 738,360     | 140.290,929  | 152,400 | 585,960 |
| 1127+0,000  |          | 10.375,867  | 37,413    | 8.253,348   | 10,000     |            | 167.216,806  | 753,530     | 141.044,459  | 152,400 | 601,130 |
| 1128+0,000  |          | 10.375,867  | 35,172    | 8.288,520   | 10,000     |            | 167.216,806  | 725,850     | 141.770,309  | 152,400 | 573,450 |
| 1129+0,000  |          | 10.375,867  | 30,464    | 8.318,984   | 10,000     |            | 167.216,806  | 656,360     | 142.426,669  | 152,400 | 503,960 |
| 1130+0,000  |          | 10.375,867  | 22,005    | 8.340,989   | 10,000     |            | 167.216,806  | 524,690     | 142.951,359  | 152,400 | 372,290 |



### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca      | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|-------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 1130+8,000  |          | 10.375,867  | 16,748    | 8.357,737   | 4,000      |            | 167.216,806  | 155,012     | 143.106,371  | 152,400 | 2,612   |
| 1131+0,000  |          | 10.375,867  | 8,539     | 8.366,276   | 6,000      |            | 167.216,806  | 151,722     | 143.258,093  | 151,722 |         |
| 1132+0,000  | 2,796    | 10.378,663  | 0,132     | 8.366,408   | 10,000     | 27,960     | 167.244,766  | 86,710      | 143.344,803  | 86,710  |         |
| 1133+0,000  | 12,080   | 10.390,743  |           | 8.366,408   | 10,000     | 148,760    | 167.393,526  | 1,320       | 143.346,123  | 1,320   |         |
| 1134+0,000  | 18,774   | 10.409,517  |           | 8.366,408   | 10,000     | 308,540    | 167.702,066  |             | 143.346,123  |         |         |
| 1134+15,859 | 21,768   | 10.431,285  |           | 8.366,408   | 7,930      | 321,478    | 168.023,544  |             | 143.346,123  |         |         |
| 1135+0,000  | 22,549   | 10.453,834  |           | 8.366,408   | 2,071      | 91,758     | 168.115,302  |             | 143.346,123  |         |         |
| 1136+0,000  | 20,004   | 10.473,838  |           | 8.366,408   | 10,000     | 425,530    | 168.540,832  |             | 143.346,123  |         |         |
| 1137+0,000  | 15,932   | 10.489,770  |           | 8.366,408   | 10,000     | 359,360    | 168.900,192  |             | 143.346,123  |         |         |
| 1138+0,000  | 10,216   | 10.499,986  |           | 8.366,408   | 10,000     | 261,480    | 169.161,672  |             | 143.346,123  |         |         |
| 1139+0,000  | 5,312    | 10.505,298  | 0,033     | 8.366,441   | 10,000     | 155,280    | 169.316,952  | 0,330       | 143.346,453  | 0,330   |         |
| 1140+0,000  | 2,315    | 10.507,613  | 0,301     | 8.366,742   | 10,000     | 76,270     | 169.393,222  | 3,340       | 143.349,793  | 3,340   |         |
| 1141+0,000  | 1,694    | 10.509,307  | 0,603     | 8.367,345   | 10,000     | 40,090     | 169.433,312  | 9,040       | 143.358,833  | 9,040   |         |
| 1142+0,000  | 1,050    | 10.510,357  | 1,117     | 8.368,462   | 10,000     | 27,440     | 169.460,752  | 17,200      | 143.376,033  | 17,200  |         |
| 1143+0,000  | 1,183    | 10.511,540  | 2,707     | 8.371,169   | 10,000     | 22,330     | 169.483,082  | 38,240      | 143.414,273  | 38,240  |         |
| 1144+0,000  | 0,663    | 10.512,203  | 3,690     | 8.374,859   | 10,000     | 18,460     | 169.501,542  | 63,970      | 143.478,243  | 63,970  |         |
| 1145+0,000  | 0,258    | 10.512,461  | 2,872     | 8.377,731   | 10,000     | 9,210      | 169.510,752  | 65,620      | 143.543,863  | 65,620  |         |
| 1146+0,000  |          | 10.512,461  | 4,106     | 8.381,837   | 10,000     | 2,580      | 169.513,332  | 69,780      | 143.613,643  | 69,780  |         |
| 1147+0,000  |          | 10.512,461  | 1,669     | 8.383,506   | 10,000     |            | 169.513,332  | 57,750      | 143.671,393  | 57,750  |         |
| 1148+0,000  | 1,143    | 10.513,604  | 1,323     | 8.384,829   | 10,000     | 11,430     | 169.524,762  | 29,920      | 143.701,313  | 29,920  |         |
| 1148+8,000  | 1,936    | 10.515,540  | 0,825     | 8.385,654   | 4,000      | 12,316     | 169.537,078  | 8,592       | 143.709,905  | 8,592   |         |
| 1149+0,000  | 1,599    | 10.517,139  | 0,788     | 8.386,442   | 6,000      | 21,210     | 169.558,288  | 9,678       | 143.719,583  | 9,678   |         |
| 1150+0,000  |          | 10.517,139  | 3,768     | 8.390,210   | 10,000     | 15,990     | 169.574,278  | 45,560      | 143.765,143  | 45,560  |         |
| 1151+0,000  |          | 10.517,139  | 13,822    | 8.404,032   | 10,000     |            | 169.574,278  | 175,900     | 143.941,043  | 152,400 | 23,500  |
| 1152+0,000  |          | 10.517,139  | 31,115    | 8.435,147   | 10,000     |            | 169.574,278  | 449,370     | 144.390,413  | 152,400 | 296,970 |
| 1153+0,000  |          | 10.517,139  | 44,653    | 8.479,800   | 10,000     |            | 169.574,278  | 757,680     | 145.148,093  | 152,400 | 605,280 |
| 1154+0,000  |          | 10.517,139  | 41,625    | 8.521,425   | 10,000     |            | 169.574,278  | 862,780     | 146.010,873  | 152,400 | 710,380 |
| 1155+0,000  |          | 10.517,139  | 19,576    | 8.541,001   | 10,000     |            | 169.574,278  | 612,010     | 146.622,883  | 152,400 | 459,610 |
| 1155+18,000 | 3,075    | 10.520,214  | 0,090     | 8.541,091   | 9,000      | 27,675     | 169.601,953  | 176,994     | 146.799,877  | 152,400 | 24,594  |
| 1156+0,000  | 5,560    | 10.525,774  |           | 8.541,091   | 1,000      | 8,635      | 169.610,588  | 0,090       | 146.799,967  | 0,090   |         |
| 1157+0,000  | 22,996   | 10.548,770  |           | 8.541,091   | 10,000     | 285,560    | 169.896,148  |             | 146.799,967  |         |         |
| 1158+0,000  | 26,652   | 10.575,422  |           | 8.541,091   | 10,000     | 496,480    | 170.392,628  |             | 146.799,967  |         |         |
| 1159+0,000  | 27,412   | 10.602,834  |           | 8.541,091   | 10,000     | 540,640    | 170.933,268  |             | 146.799,967  |         |         |
| 1160+0,000  | 29,293   | 10.632,127  |           | 8.541,091   | 10,000     | 567,050    | 171.500,318  |             | 146.799,967  |         |         |
| 1161+0,000  | 20,394   | 10.652,521  |           | 8.541,091   | 10,000     | 496,870    | 171.997,188  |             | 146.799,967  |         |         |
| 1161+18,000 | 15,921   | 10.668,442  |           | 8.541,091   | 9,000      | 326,835    | 172.324,023  |             | 146.799,967  |         |         |
| 1162+0,000  | 15,185   | 10.683,627  |           | 8.541,091   | 1,000      | 31,106     | 172.355,129  |             | 146.799,967  |         |         |
| 1162+2,000  | 14,518   | 10.698,145  |           | 8.541,091   | 1,000      | 29,703     | 172.384,832  |             | 146.799,967  |         |         |
| 1163+0,000  | 2,282    | 10.700,427  | 0,404     | 8.541,495   | 9,000      | 151,200    | 172.536,032  | 3,636       | 146.803,603  | 3,636   |         |
| 1163+18,416 |          | 10.700,427  | 9,189     | 8.550,684   | 9,208      | 21,013     | 172.557,045  | 88,332      | 146.891,936  | 88,332  |         |
| 1164+0,000  |          | 10.700,427  | 10,488    | 8.561,172   | 0,792      |            | 172.557,045  | 15,584      | 146.907,520  | 15,584  |         |
| 1165+0,000  |          | 10.700,427  | 26,428    | 8.587,600   | 10,000     |            | 172.557,045  | 369,160     | 147.276,680  | 200,400 | 168,760 |
| 1166+0,000  |          | 10.700,427  | 61,114    | 8.648,714   | 10,000     |            | 172.557,045  | 875,420     | 148.152,100  | 200,400 | 675,020 |
| 1166+5,845  |          | 10.700,427  | 40,262    | 8.688,976   | 2,923      |            | 172.557,045  | 296,271     | 148.448,371  | 200,400 | 95,871  |
| 1167+0,000  | 0,117    | 10.700,544  | 15,480    | 8.704,456   | 7,078      | 0,828      | 172.557,873  | 394,514     | 148.842,885  | 200,400 | 194,114 |
| 1167+8,416  | 1,215    | 10.701,759  | 6,661     | 8.711,117   | 4,208      | 5,605      | 172.563,478  | 93,169      | 148.936,055  | 93,169  |         |
| 1168+0,000  | 4,955    | 10.706,714  | 0,661     | 8.711,778   | 5,792      | 35,737     | 172.599,215  | 42,409      | 148.978,464  | 42,409  |         |
| 1168+2,000  | 5,507    | 10.712,221  | 0,295     | 8.712,073   | 1,000      | 10,462     | 172.609,677  | 0,956       | 148.979,420  | 0,956   |         |
| 1168+4,000  | 6,206    | 10.718,427  | 0,149     | 8.712,222   | 1,000      | 11,713     | 172.621,390  | 0,444       | 148.979,864  | 0,444   |         |
| 1169+0,000  | 15,572   | 10.733,999  |           | 8.712,222   | 8,000      | 174,224    | 172.795,614  | 1,192       | 148.981,056  | 1,192   |         |
| 1169+8,450  | 19,750   | 10.753,749  |           | 8.712,222   | 4,225      | 149,235    | 172.944,849  |             | 148.981,056  |         |         |

### Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

| Estaca      | Á. Corte | Á. C. Acum. | Á. Aterro | Á. A. Acum. | Semi-Dist. | Vol. Corte | Vol. C.Acum. | Vol. Aterro | Vol. A.Acum. | 100% PI | 100% PN |
|-------------|----------|-------------|-----------|-------------|------------|------------|--------------|-------------|--------------|---------|---------|
| 1170+0,000  | 28,677   | 10.782,426  |           | 8.712,222   | 5,775      | 279,666    | 173.224,515  |             | 148.981,056  |         |         |
| 1170+16,386 | 26,353   | 10.808,779  |           | 8.712,222   | 8,193      | 450,861    | 173.675,376  |             | 148.981,056  |         |         |
| 1171+0,000  | 26,088   | 10.834,867  |           | 8.712,222   | 1,807      | 94,761     | 173.770,137  |             | 148.981,056  |         |         |
| 1172+0,000  | 20,584   | 10.855,451  |           | 8.712,222   | 10,000     | 466,720    | 174.236,857  |             | 148.981,056  |         |         |
| 1172+18,450 | 14,544   | 10.869,995  |           | 8.712,222   | 9,225      | 324,056    | 174.560,913  |             | 148.981,056  |         |         |
| 1173+0,000  | 14,321   | 10.884,316  |           | 8.712,222   | 0,775      | 22,370     | 174.583,283  |             | 148.981,056  |         |         |
| 1174+0,000  | 11,402   | 10.895,718  |           | 8.712,222   | 10,000     | 257,230    | 174.840,513  |             | 148.981,056  |         |         |
| 1174+4,000  | 10,867   | 10.906,585  |           | 8.712,222   | 2,000      | 44,538     | 174.885,051  |             | 148.981,056  |         |         |
| 1175+0,000  | 6,534    | 10.913,119  |           | 8.712,222   | 8,000      | 139,208    | 175.024,259  |             | 148.981,056  |         |         |
| 1176+0,000  | 3,423    | 10.916,542  | 0,293     | 8.712,515   | 10,000     | 99,570     | 175.123,829  | 2,930       | 148.983,986  | 2,930   |         |
| 1177+0,000  | 3,033    | 10.919,575  | 0,639     | 8.713,154   | 10,000     | 64,560     | 175.188,389  | 9,320       | 148.993,306  | 9,320   |         |
| 1178+0,000  | 1,820    | 10.921,395  | 1,093     | 8.714,247   | 10,000     | 48,530     | 175.236,919  | 17,320      | 149.010,626  | 17,320  |         |
| 1179+0,000  | 0,819    | 10.922,214  | 0,741     | 8.714,988   | 10,000     | 26,390     | 175.263,309  | 18,340      | 149.028,966  | 18,340  |         |
| 1180+0,000  | 0,635    | 10.922,849  | 2,419     | 8.717,407   | 10,000     | 14,540     | 175.277,849  | 31,600      | 149.060,566  | 31,600  |         |
| 1181+0,000  |          | 10.922,849  | 5,610     | 8.723,017   | 10,000     | 6,350      | 175.284,199  | 80,290      | 149.140,856  | 80,290  |         |
| 1182+0,000  |          | 10.922,849  | 9,009     | 8.732,026   | 10,000     |            | 175.284,199  | 146,190     | 149.287,046  | 146,190 |         |
| 1182+2,260  |          | 10.922,849  | 9,114     | 8.741,140   | 1,130      |            | 175.284,199  | 20,479      | 149.307,525  | 20,479  |         |
| 1182+16,000 |          | 10.922,849  | 10,958    | 8.752,098   | 6,870      |            | 175.284,199  | 137,895     | 149.445,419  | 137,895 |         |
| 1183+0,000  |          | 10.922,849  | 10,668    | 8.762,766   | 2,000      |            | 175.284,199  | 43,252      | 149.488,671  | 43,252  |         |
| 1183+0,072  |          | 10.922,849  | 10,664    | 8.773,430   | 0,036      |            | 175.284,199  | 0,768       | 149.489,439  | 0,768   |         |
| 1183+7,672  |          | 10.922,849  | 10,515    | 8.783,945   | 3,800      |            | 175.284,199  | 80,480      | 149.569,919  | 80,480  |         |
| 1183+17,885 |          | 10.922,849  | 11,145    | 8.795,090   | 5,107      |            | 175.284,199  | 110,607     | 149.680,526  | 110,607 |         |
| 1183+19,072 |          | 10.922,849  | 11,220    | 8.806,310   | 0,594      |            | 175.284,199  | 13,285      | 149.693,811  | 13,285  |         |
| 1184+0,000  |          | 10.922,849  | 10,064    | 8.816,374   | 0,464      |            | 175.284,199  | 9,876       | 149.703,687  | 9,876   |         |
| 1185+0,000  |          | 10.922,849  | 10,470    | 8.826,844   | 10,000     |            | 175.284,199  | 205,340     | 149.909,027  | 152,400 | 52,940  |
| 1186+0,000  |          | 10.922,849  | 14,287    | 8.841,131   | 10,000     |            | 175.284,199  | 247,570     | 150.156,597  | 152,400 | 95,170  |
| 1187+0,000  |          | 10.922,849  | 9,565     | 8.850,696   | 10,000     |            | 175.284,199  | 238,520     | 150.395,117  | 152,400 | 86,120  |
| 1187+9,158  |          | 10.922,849  | 14,366    | 8.865,062   | 4,579      |            | 175.284,199  | 109,580     | 150.504,697  | 109,580 |         |
| 1188+0,000  |          | 10.922,849  | 12,494    | 8.877,556   | 5,421      |            | 175.284,199  | 145,608     | 150.650,305  | 145,608 |         |
| 1189+0,000  |          | 10.922,849  | 13,902    | 8.891,458   | 10,000     |            | 175.284,199  | 263,960     | 150.914,265  | 152,400 | 111,560 |
| 1189+1,587  |          | 10.922,849  | 14,352    | 8.905,810   | 0,794      |            | 175.284,199  | 22,420      | 150.936,684  | 22,420  |         |
| 1190+0,000  |          | 10.922,849  | 10,970    | 8.916,780   | 9,207      |            | 175.284,199  | 233,127     | 151.169,811  | 152,400 | 80,727  |
| 1191+0,000  | 1,270    | 10.924,119  | 6,085     | 8.922,865   | 10,000     | 12,700     | 175.296,899  | 170,550     | 151.340,361  | 152,400 | 18,150  |
| 1192+0,000  | 1,177    | 10.925,296  | 2,148     | 8.925,013   | 10,000     | 24,470     | 175.321,369  | 82,330      | 151.422,691  | 82,330  |         |
| 1192+16,000 | 1,583    | 10.926,879  | 1,309     | 8.926,322   | 8,000      | 22,080     | 175.343,449  | 27,656      | 151.450,347  | 27,656  |         |
| 1193+0,000  | 1,473    | 10.928,352  | 1,267     | 8.927,589   | 2,000      | 6,112      | 175.349,561  | 5,152       | 151.455,499  | 5,152   |         |
| 1194+0,000  | 1,268    | 10.929,620  | 1,288     | 8.928,877   | 10,000     | 27,410     | 175.376,971  | 25,550      | 151.481,049  | 25,550  |         |
| 1194+4,102  | 1,192    | 10.930,812  | 1,433     | 8.930,310   | 2,051      | 5,045      | 175.382,017  | 5,581       | 151.486,630  | 5,581   |         |
| 1194+5,289  | 1,176    | 10.931,988  | 1,470     | 8.931,780   | 0,594      | 1,407      | 175.383,423  | 1,724       | 151.488,355  | 1,724   |         |
| 1194+7,000  | 1,171    | 10.933,159  | 1,483     | 8.933,263   | 0,856      | 2,008      | 175.385,431  | 2,526       | 151.490,881  | 2,526   |         |
| 1194+15,502 | 1,247    | 10.934,406  | 1,314     | 8.934,577   | 4,251      | 10,279     | 175.395,710  | 11,890      | 151.502,771  | 11,890  |         |
| 1195+0,000  | 1,354    | 10.935,760  | 1,043     | 8.935,620   | 2,249      | 5,850      | 175.401,560  | 5,301       | 151.508,072  | 5,301   |         |
| 1195+3,102  | 1,435    | 10.937,195  | 0,869     | 8.936,489   | 1,551      | 4,326      | 175.405,885  | 2,966       | 151.511,037  | 2,966   |         |
| 1196+0,000  | 1,697    | 10.938,892  | 0,489     | 8.936,978   | 8,449      | 26,462     | 175.432,348  | 11,474      | 151.522,511  | 11,474  |         |
| 1196+0,914  | 1,712    | 10.940,604  | 0,485     | 8.937,463   | 0,457      | 1,558      | 175.433,905  | 0,445       | 151.522,956  | 0,445   |         |
| 1197+0,000  | 1,426    | 10.942,030  | 0,168     | 8.937,631   | 9,543      | 29,946     | 175.463,851  | 6,232       | 151.529,188  | 6,232   |         |
| 1198+0,000  | 0,471    | 10.942,501  | 1,410     | 8.939,041   | 10,000     | 18,970     | 175.482,821  | 15,780      | 151.544,968  | 15,780  |         |
| 1199+0,000  |          | 10.942,501  | 4,540     | 8.943,581   | 10,000     | 4,710      | 175.487,531  | 59,500      | 151.604,468  | 59,500  |         |
| 1200+0,000  |          | 10.942,501  | 4,825     | 8.948,406   | 10,000     |            | 175.487,531  | 93,650      | 151.698,118  | 93,650  |         |
|             |          |             |           |             |            |            |              |             |              |         |         |
|             |          |             |           |             |            |            |              |             |              |         |         |
|             |          |             |           |             |            |            |              |             |              |         |         |

## 7.0 - COORDENADAS TOPOGRÁFICAS DO EIXO LOCADO

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca       | Norte       | Este        |
|--------------|-------------|-------------|
| 136+0,000 PI | 95.698,2725 | 76.168,8707 |
| 137+0,000    | 95.705,1138 | 76.150,0772 |
| 138+0,000    | 95.711,9550 | 76.131,2837 |
| 139+0,000    | 95.718,7963 | 76.112,4901 |
| 140+0,000    | 95.725,6376 | 76.093,6966 |
| 141+0,000    | 95.732,4789 | 76.074,9030 |
| 142+0,000    | 95.739,3201 | 76.056,1095 |
| 143+0,000    | 95.746,1614 | 76.037,3160 |
| 144+0,000    | 95.753,0027 | 76.018,5224 |
| 145+0,000    | 95.759,8439 | 75.999,7289 |
| 146+0,000    | 95.766,6852 | 75.980,9354 |
| 147+0,000    | 95.773,5265 | 75.962,1418 |
| 148+0,000    | 95.780,3678 | 75.943,3483 |
| 149+0,000    | 95.787,2090 | 75.924,5548 |
| 150+0,000    | 95.794,0503 | 75.905,7612 |
| 151+0,000    | 95.800,8916 | 75.886,9677 |
| 152+0,000    | 95.807,7328 | 75.868,1742 |
| 153+0,000    | 95.814,5741 | 75.849,3806 |
| 154+0,000    | 95.821,4154 | 75.830,5871 |
| 155+0,000    | 95.828,2567 | 75.811,7935 |
| 156+0,000    | 95.835,0979 | 75.793,0000 |
| 157+0,000    | 95.841,9392 | 75.774,2065 |
| 158+0,000    | 95.848,7805 | 75.755,4129 |
| 159+0,000    | 95.855,6218 | 75.736,6194 |
| 160+0,000    | 95.862,4630 | 75.717,8259 |
| 161+0,000    | 95.869,3043 | 75.699,0323 |
| 162+0,000    | 95.876,1456 | 75.680,2388 |
| 163+0,000    | 95.882,9868 | 75.661,4453 |
| 164+0,000    | 95.889,8281 | 75.642,6517 |
| 165+0,000    | 95.896,6694 | 75.623,8582 |
| 166+0,000    | 95.903,5107 | 75.605,0646 |
| 167+0,000    | 95.910,3519 | 75.586,2711 |
| 168+0,000    | 95.917,1932 | 75.567,4776 |
| 169+0,000    | 95.924,0345 | 75.548,6840 |
| 170+0,000    | 95.930,8757 | 75.529,8905 |
| 171+0,000    | 95.937,7170 | 75.511,0970 |
| 172+0,000    | 95.944,5583 | 75.492,3034 |
| 173+0,000    | 95.951,3996 | 75.473,5099 |
| 174+0,000    | 95.958,2408 | 75.454,7164 |
| 175+0,000    | 95.965,0821 | 75.435,9228 |
| 176+0,000    | 95.971,9234 | 75.417,1293 |
| 177+0,000    | 95.978,7646 | 75.398,3357 |
| 178+0,000    | 95.985,6059 | 75.379,5422 |
| 179+0,000    | 95.992,4472 | 75.360,7487 |
| 180+0,000    | 95.999,2885 | 75.341,9551 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte       | Este        |
|---------------|-------------|-------------|
| 181+0,000     | 96.006,1297 | 75.323,1616 |
| 182+0,000     | 96.012,9710 | 75.304,3681 |
| 183+0,000     | 96.019,8123 | 75.285,5745 |
| 184+0,000     | 96.026,6535 | 75.266,7810 |
| 185+0,000     | 96.033,4948 | 75.247,9875 |
| 186+0,000     | 96.040,3361 | 75.229,1939 |
| 187+0,000     | 96.047,1774 | 75.210,4004 |
| 188+0,000     | 96.054,0186 | 75.191,6068 |
| 188+16,302 PI | 96.059,5950 | 75.176,2880 |
| 189+0,000     | 96.060,8633 | 75.172,8146 |
| 190+0,000     | 96.067,7231 | 75.154,0278 |
| 191+0,000     | 96.074,5829 | 75.135,2410 |
| 192+0,000     | 96.081,4427 | 75.116,4542 |
| 193+0,000     | 96.088,3025 | 75.097,6674 |
| 194+0,000     | 96.095,1623 | 75.078,8806 |
| 195+0,000     | 96.102,0221 | 75.060,0938 |
| 196+0,000     | 96.108,8818 | 75.041,3071 |
| 197+0,000     | 96.115,7416 | 75.022,5203 |
| 198+0,000     | 96.122,6014 | 75.003,7335 |
| 199+0,000     | 96.129,4612 | 74.984,9467 |
| 200+0,000     | 96.136,3210 | 74.966,1599 |
| 201+0,000     | 96.143,1808 | 74.947,3731 |
| 202+0,000     | 96.150,0406 | 74.928,5864 |
| 203+0,000     | 96.156,9004 | 74.909,7996 |
| 204+0,000     | 96.163,7602 | 74.891,0128 |
| 205+0,000     | 96.170,6199 | 74.872,2260 |
| 206+0,000     | 96.177,4797 | 74.853,4392 |
| 207+0,000     | 96.184,3395 | 74.834,6524 |
| 208+0,000     | 96.191,1993 | 74.815,8656 |
| 209+0,000     | 96.198,0591 | 74.797,0789 |
| 210+0,000     | 96.204,9189 | 74.778,2921 |
| 211+0,000     | 96.211,7787 | 74.759,5053 |
| 212+0,000     | 96.218,6385 | 74.740,7185 |
| 213+0,000     | 96.225,4982 | 74.721,9317 |
| 214+0,000     | 96.232,3580 | 74.703,1449 |
| 215+0,000     | 96.239,2178 | 74.684,3581 |
| 216+0,000     | 96.246,0776 | 74.665,5714 |
| 217+0,000     | 96.252,9374 | 74.646,7846 |
| 218+0,000     | 96.259,7972 | 74.627,9978 |
| 219+0,000     | 96.266,6570 | 74.609,2110 |
| 220+0,000     | 96.273,5168 | 74.590,4242 |
| 221+0,000     | 96.280,3766 | 74.571,6374 |
| 222+0,000     | 96.287,2363 | 74.552,8506 |
| 223+0,000     | 96.294,0961 | 74.534,0639 |
| 224+0,000     | 96.300,9559 | 74.515,2771 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca    | Norte       | Este        |
|-----------|-------------|-------------|
| 225+0,000 | 96.307,8157 | 74.496,4903 |
| 226+0,000 | 96.314,6755 | 74.477,7035 |
| 227+0,000 | 96.321,5353 | 74.458,9167 |
| 228+0,000 | 96.328,3951 | 74.440,1299 |
| 229+0,000 | 96.335,2549 | 74.421,3431 |
| 230+0,000 | 96.342,1147 | 74.402,5564 |
| 231+0,000 | 96.348,9744 | 74.383,7696 |
| 232+0,000 | 96.355,8342 | 74.364,9828 |
| 233+0,000 | 96.362,6940 | 74.346,1960 |
| 234+0,000 | 96.369,5538 | 74.327,4092 |
| 235+0,000 | 96.376,4136 | 74.308,6224 |
| 236+0,000 | 96.383,2734 | 74.289,8357 |
| 237+0,000 | 96.390,1332 | 74.271,0489 |
| 238+0,000 | 96.396,9930 | 74.252,2621 |
| 239+0,000 | 96.403,8527 | 74.233,4753 |
| 240+0,000 | 96.410,7125 | 74.214,6885 |
| 241+0,000 | 96.417,5723 | 74.195,9017 |
| 242+0,000 | 96.424,4321 | 74.177,1149 |
| 243+0,000 | 96.431,2919 | 74.158,3282 |
| 244+0,000 | 96.438,1517 | 74.139,5414 |
| 245+0,000 | 96.445,0115 | 74.120,7546 |
| 246+0,000 | 96.451,8713 | 74.101,9678 |
| 247+0,000 | 96.458,7311 | 74.083,1810 |
| 248+0,000 | 96.465,5908 | 74.064,3942 |
| 249+0,000 | 96.472,4506 | 74.045,6074 |
| 250+0,000 | 96.479,3104 | 74.026,8207 |
| 251+0,000 | 96.486,1702 | 74.008,0339 |
| 252+0,000 | 96.493,0300 | 73.989,2471 |
| 253+0,000 | 96.499,8898 | 73.970,4603 |
| 254+0,000 | 96.506,7496 | 73.951,6735 |
| 255+0,000 | 96.513,6094 | 73.932,8867 |
| 256+0,000 | 96.520,4692 | 73.914,0999 |
| 257+0,000 | 96.527,3289 | 73.895,3132 |
| 258+0,000 | 96.534,1887 | 73.876,5264 |
| 259+0,000 | 96.541,0485 | 73.857,7396 |
| 260+0,000 | 96.547,9083 | 73.838,9528 |
| 261+0,000 | 96.554,7681 | 73.820,1660 |
| 262+0,000 | 96.561,6279 | 73.801,3792 |
| 263+0,000 | 96.568,4877 | 73.782,5924 |
| 264+0,000 | 96.575,3475 | 73.763,8057 |
| 265+0,000 | 96.582,2072 | 73.745,0189 |
| 266+0,000 | 96.589,0670 | 73.726,2321 |
| 267+0,000 | 96.595,9268 | 73.707,4453 |
| 268+0,000 | 96.602,7866 | 73.688,6585 |
| 269+0,000 | 96.609,6464 | 73.669,8717 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca    | Norte       | Este        |
|-----------|-------------|-------------|
| 270+0,000 | 96.616,5062 | 73.651,0850 |
| 271+0,000 | 96.623,3660 | 73.632,2982 |
| 272+0,000 | 96.630,2258 | 73.613,5114 |
| 273+0,000 | 96.637,0856 | 73.594,7246 |
| 274+0,000 | 96.643,9453 | 73.575,9378 |
| 275+0,000 | 96.650,8051 | 73.557,1510 |
| 276+0,000 | 96.657,6649 | 73.538,3642 |
| 277+0,000 | 96.664,5247 | 73.519,5775 |
| 278+0,000 | 96.671,3845 | 73.500,7907 |
| 279+0,000 | 96.678,2443 | 73.482,0039 |
| 280+0,000 | 96.685,1041 | 73.463,2171 |
| 281+0,000 | 96.691,9639 | 73.444,4303 |
| 282+0,000 | 96.698,8237 | 73.425,6435 |
| 283+0,000 | 96.705,6834 | 73.406,8567 |
| 284+0,000 | 96.712,5432 | 73.388,0700 |
| 285+0,000 | 96.719,4030 | 73.369,2832 |
| 286+0,000 | 96.726,2628 | 73.350,4964 |
| 287+0,000 | 96.733,1226 | 73.331,7096 |
| 288+0,000 | 96.739,9824 | 73.312,9228 |
| 289+0,000 | 96.746,8422 | 73.294,1360 |
| 290+0,000 | 96.753,7020 | 73.275,3492 |
| 291+0,000 | 96.760,5617 | 73.256,5625 |
| 292+0,000 | 96.767,4215 | 73.237,7757 |
| 293+0,000 | 96.774,2813 | 73.218,9889 |
| 294+0,000 | 96.781,1411 | 73.200,2021 |
| 295+0,000 | 96.788,0009 | 73.181,4153 |
| 296+0,000 | 96.794,8607 | 73.162,6285 |
| 297+0,000 | 96.801,7205 | 73.143,8417 |
| 298+0,000 | 96.808,5803 | 73.125,0550 |
| 299+0,000 | 96.815,4401 | 73.106,2682 |
| 300+0,000 | 96.822,2998 | 73.087,4814 |
| 301+0,000 | 96.829,1596 | 73.068,6946 |
| 302+0,000 | 96.836,0194 | 73.049,9078 |
| 303+0,000 | 96.842,8792 | 73.031,1210 |
| 304+0,000 | 96.849,7390 | 73.012,3343 |
| 305+0,000 | 96.856,5988 | 72.993,5475 |
| 306+0,000 | 96.863,4586 | 72.974,7607 |
| 307+0,000 | 96.870,3184 | 72.955,9739 |
| 308+0,000 | 96.877,1782 | 72.937,1871 |
| 309+0,000 | 96.884,0379 | 72.918,4003 |
| 310+0,000 | 96.890,8977 | 72.899,6135 |
| 311+0,000 | 96.897,7575 | 72.880,8268 |
| 312+0,000 | 96.904,6173 | 72.862,0400 |
| 313+0,000 | 96.911,4771 | 72.843,2532 |
| 314+0,000 | 96.918,3369 | 72.824,4664 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte       | Este        |
|---------------|-------------|-------------|
| 315+0,000     | 96.925,1967 | 72.805,6796 |
| 316+0,000     | 96.932,0565 | 72.786,8928 |
| 317+0,000     | 96.938,9163 | 72.768,1060 |
| 318+0,000     | 96.945,7760 | 72.749,3193 |
| 319+0,000     | 96.952,6358 | 72.730,5325 |
| 320+0,000     | 96.959,4956 | 72.711,7457 |
| 321+0,000     | 96.966,3554 | 72.692,9589 |
| 322+0,000     | 96.973,2152 | 72.674,1721 |
| 323+0,000     | 96.980,0750 | 72.655,3853 |
| 324+0,000     | 96.986,9348 | 72.636,5985 |
| 325+0,000     | 96.993,7946 | 72.617,8118 |
| 326+0,000     | 97.000,6543 | 72.599,0250 |
| 327+0,000     | 97.007,5141 | 72.580,2382 |
| 328+0,000     | 97.014,3739 | 72.561,4514 |
| 329+0,000     | 97.021,2337 | 72.542,6646 |
| 329+5,394 PC  | 97.023,0837 | 72.537,5980 |
| 330+0,000     | 97.028,3429 | 72.523,9723 |
| 331+0,000     | 97.036,3438 | 72.505,6447 |
| 332+0,000     | 97.045,2507 | 72.487,7399 |
| 333+0,000     | 97.055,0414 | 72.470,3026 |
| 333+14,647 PT | 97.062,7582 | 72.457,8540 |
| 334+0,000     | 97.065,6613 | 72.453,3568 |
| 334+3,490 PC  | 97.067,5542 | 72.450,4245 |
| 335+0,000     | 97.076,2196 | 72.436,3730 |
| 336+0,000     | 97.085,9289 | 72.418,8902 |
| 337+0,000     | 97.094,7524 | 72.400,9441 |
| 338+0,000     | 97.102,6679 | 72.382,5794 |
| 339+0,000     | 97.109,6556 | 72.363,8421 |
| 340+0,000     | 97.115,6982 | 72.344,7789 |
| 341+0,000     | 97.120,7804 | 72.325,4376 |
| 341+16,566 PT | 97.124,2537 | 72.309,2414 |
| 342+0,000     | 97.124,9041 | 72.305,8692 |
| 343+0,000     | 97.128,6919 | 72.286,2311 |
| 344+0,000     | 97.132,4798 | 72.266,5931 |
| 344+9,178 PC  | 97.134,2180 | 72.257,5812 |
| 345+0,000     | 97.136,3394 | 72.246,9693 |
| 346+0,000     | 97.140,6369 | 72.227,4370 |
| 347+0,000     | 97.145,4214 | 72.208,0182 |
| 348+0,000     | 97.150,6897 | 72.188,7251 |
| 349+0,000     | 97.156,4387 | 72.169,5697 |
| 350+0,000     | 97.162,6647 | 72.150,5640 |
| 351+0,000     | 97.169,3639 | 72.131,7199 |
| 351+3,764 PT  | 97.170,6771 | 72.128,1928 |
| 352+0,000     | 97.176,3781 | 72.112,9903 |
| 353+0,000     | 97.183,4006 | 72.094,2637 |



**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte       | Este        |
|---------------|-------------|-------------|
| 354+0,000     | 97.190,4232 | 72.075,5372 |
| 355+0,000     | 97.197,4457 | 72.056,8106 |
| 356+0,000     | 97.204,4683 | 72.038,0841 |
| 357+0,000     | 97.211,4908 | 72.019,3575 |
| 358+0,000     | 97.218,5134 | 72.000,6309 |
| 359+0,000     | 97.225,5359 | 71.981,9044 |
| 360+0,000     | 97.232,5584 | 71.963,1778 |
| 361+0,000     | 97.239,5810 | 71.944,4513 |
| 362+0,000     | 97.246,6035 | 71.925,7247 |
| 363+0,000     | 97.253,6261 | 71.906,9982 |
| 364+0,000     | 97.260,6486 | 71.888,2716 |
| 365+0,000     | 97.267,6712 | 71.869,5451 |
| 366+0,000     | 97.274,6937 | 71.850,8185 |
| 367+0,000     | 97.281,7162 | 71.832,0919 |
| 368+0,000     | 97.288,7388 | 71.813,3654 |
| 369+0,000     | 97.295,7613 | 71.794,6388 |
| 370+0,000     | 97.302,7839 | 71.775,9123 |
| 371+0,000     | 97.309,8064 | 71.757,1857 |
| 372+0,000     | 97.316,8290 | 71.738,4592 |
| 373+0,000     | 97.323,8515 | 71.719,7326 |
| 374+0,000     | 97.330,8740 | 71.701,0061 |
| 375+0,000     | 97.337,8966 | 71.682,2795 |
| 375+11,407 TE | 97.341,9018 | 71.671,5990 |
| 376+0,000     | 97.344,9227 | 71.663,5543 |
| 377+0,000     | 97.352,0717 | 71.644,8758 |
| 378+0,000     | 97.359,6006 | 71.626,3477 |
| 379+0,000     | 97.367,7676 | 71.608,0928 |
| 379+11,407 EC | 97.372,8062 | 71.597,8597 |
| 380+0,000     | 97.376,8149 | 71.590,2590 |
| 381+0,000     | 97.386,8583 | 71.572,9668 |
| 382+0,000     | 97.397,8729 | 71.556,2763 |
| 383+0,000     | 97.409,8227 | 71.540,2422 |
| 384+0,000     | 97.422,6687 | 71.524,9167 |
| 385+0,000     | 97.436,3691 | 71.510,3499 |
| 386+0,000     | 97.450,8790 | 71.496,5893 |
| 387+0,000     | 97.466,1511 | 71.483,6799 |
| 387+13,520 CE | 97.476,8820 | 71.475,4565 |
| 388+0,000     | 97.482,1346 | 71.471,6625 |
| 389+0,000     | 97.498,7195 | 71.460,4878 |
| 390+0,000     | 97.515,7202 | 71.449,9547 |
| 391+0,000     | 97.532,9686 | 71.439,8314 |
| 391+13,520 ET | 97.544,6927 | 71.433,0975 |
| 392+0,000     | 97.550,3150 | 71.429,8763 |
| 393+0,000     | 97.567,6687 | 71.419,9341 |
| 394+0,000     | 97.585,0224 | 71.409,9918 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca    | Norte       | Este        |
|-----------|-------------|-------------|
| 395+0,000 | 97.602,3761 | 71.400,0495 |
| 396+0,000 | 97.619,7298 | 71.390,1073 |
| 397+0,000 | 97.637,0835 | 71.380,1650 |
| 398+0,000 | 97.654,4373 | 71.370,2228 |
| 399+0,000 | 97.671,7910 | 71.360,2805 |
| 400+0,000 | 97.689,1447 | 71.350,3382 |
| 401+0,000 | 97.706,4984 | 71.340,3960 |
| 402+0,000 | 97.723,8521 | 71.330,4537 |
| 403+0,000 | 97.741,2058 | 71.320,5114 |
| 404+0,000 | 97.758,5595 | 71.310,5692 |
| 405+0,000 | 97.775,9133 | 71.300,6269 |
| 406+0,000 | 97.793,2670 | 71.290,6846 |
| 407+0,000 | 97.810,6207 | 71.280,7424 |
| 408+0,000 | 97.827,9744 | 71.270,8001 |
| 409+0,000 | 97.845,3281 | 71.260,8578 |
| 410+0,000 | 97.862,6818 | 71.250,9156 |
| 411+0,000 | 97.880,0355 | 71.240,9733 |
| 412+0,000 | 97.897,3893 | 71.231,0311 |
| 413+0,000 | 97.914,7430 | 71.221,0888 |
| 414+0,000 | 97.932,0967 | 71.211,1465 |
| 415+0,000 | 97.949,4504 | 71.201,2043 |
| 416+0,000 | 97.966,8041 | 71.191,2620 |
| 417+0,000 | 97.984,1578 | 71.181,3197 |
| 418+0,000 | 98.001,5115 | 71.171,3775 |
| 419+0,000 | 98.018,8653 | 71.161,4352 |
| 420+0,000 | 98.036,2190 | 71.151,4929 |
| 421+0,000 | 98.053,5727 | 71.141,5507 |
| 422+0,000 | 98.070,9264 | 71.131,6084 |
| 423+0,000 | 98.088,2801 | 71.121,6661 |
| 424+0,000 | 98.105,6338 | 71.111,7239 |
| 425+0,000 | 98.122,9875 | 71.101,7816 |
| 426+0,000 | 98.140,3412 | 71.091,8394 |
| 427+0,000 | 98.157,6950 | 71.081,8971 |
| 428+0,000 | 98.175,0487 | 71.071,9548 |
| 429+0,000 | 98.192,4024 | 71.062,0126 |
| 430+0,000 | 98.209,7561 | 71.052,0703 |
| 431+0,000 | 98.227,1098 | 71.042,1280 |
| 432+0,000 | 98.244,4635 | 71.032,1858 |
| 433+0,000 | 98.261,8172 | 71.022,2435 |
| 434+0,000 | 98.279,1710 | 71.012,3012 |
| 435+0,000 | 98.296,5247 | 71.002,3590 |
| 436+0,000 | 98.313,8784 | 70.992,4167 |
| 437+0,000 | 98.331,2321 | 70.982,4744 |
| 438+0,000 | 98.348,5858 | 70.972,5322 |
| 439+0,000 | 98.365,9395 | 70.962,5899 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca    | Norte       | Este        |
|-----------|-------------|-------------|
| 440+0,000 | 98.383,2932 | 70.952,6477 |
| 441+0,000 | 98.400,6470 | 70.942,7054 |
| 442+0,000 | 98.418,0007 | 70.932,7631 |
| 443+0,000 | 98.435,3544 | 70.922,8209 |
| 444+0,000 | 98.452,7081 | 70.912,8786 |
| 445+0,000 | 98.470,0618 | 70.902,9363 |
| 446+0,000 | 98.487,4155 | 70.892,9941 |
| 447+0,000 | 98.504,7692 | 70.883,0518 |
| 448+0,000 | 98.522,1229 | 70.873,1095 |
| 449+0,000 | 98.539,4767 | 70.863,1673 |
| 450+0,000 | 98.556,8304 | 70.853,2250 |
| 451+0,000 | 98.574,1841 | 70.843,2827 |
| 452+0,000 | 98.591,5378 | 70.833,3405 |
| 453+0,000 | 98.608,8915 | 70.823,3982 |
| 454+0,000 | 98.626,2452 | 70.813,4560 |
| 455+0,000 | 98.643,5989 | 70.803,5137 |
| 456+0,000 | 98.660,9527 | 70.793,5714 |
| 457+0,000 | 98.678,3064 | 70.783,6292 |
| 458+0,000 | 98.695,6601 | 70.773,6869 |
| 459+0,000 | 98.713,0138 | 70.763,7446 |
| 460+0,000 | 98.730,3675 | 70.753,8024 |
| 461+0,000 | 98.747,7212 | 70.743,8601 |
| 462+0,000 | 98.765,0749 | 70.733,9178 |
| 463+0,000 | 98.782,4287 | 70.723,9756 |
| 464+0,000 | 98.799,7824 | 70.714,0333 |
| 465+0,000 | 98.817,1361 | 70.704,0910 |
| 466+0,000 | 98.834,4898 | 70.694,1488 |
| 467+0,000 | 98.851,8435 | 70.684,2065 |
| 468+0,000 | 98.869,1972 | 70.674,2643 |
| 469+0,000 | 98.886,5509 | 70.664,3220 |
| 470+0,000 | 98.903,9046 | 70.654,3797 |
| 471+0,000 | 98.921,2584 | 70.644,4375 |
| 472+0,000 | 98.938,6121 | 70.634,4952 |
| 473+0,000 | 98.955,9658 | 70.624,5529 |
| 474+0,000 | 98.973,3195 | 70.614,6107 |
| 475+0,000 | 98.990,6732 | 70.604,6684 |
| 476+0,000 | 99.008,0269 | 70.594,7261 |
| 477+0,000 | 99.025,3806 | 70.584,7839 |
| 478+0,000 | 99.042,7344 | 70.574,8416 |
| 479+0,000 | 99.060,0881 | 70.564,8993 |
| 480+0,000 | 99.077,4418 | 70.554,9571 |
| 481+0,000 | 99.094,7955 | 70.545,0148 |
| 482+0,000 | 99.112,1492 | 70.535,0725 |
| 483+0,000 | 99.129,5029 | 70.525,1303 |
| 484+0,000 | 99.146,8566 | 70.515,1880 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca    | Norte       | Este        |
|-----------|-------------|-------------|
| 485+0,000 | 99.164,2104 | 70.505,2458 |
| 486+0,000 | 99.181,5641 | 70.495,3035 |
| 487+0,000 | 99.198,9178 | 70.485,3612 |
| 488+0,000 | 99.216,2715 | 70.475,4190 |
| 489+0,000 | 99.233,6252 | 70.465,4767 |
| 490+0,000 | 99.250,9789 | 70.455,5344 |
| 491+0,000 | 99.268,3326 | 70.445,5922 |
| 492+0,000 | 99.285,6864 | 70.435,6499 |
| 493+0,000 | 99.303,0401 | 70.425,7076 |
| 494+0,000 | 99.320,3938 | 70.415,7654 |
| 495+0,000 | 99.337,7475 | 70.405,8231 |
| 496+0,000 | 99.355,1012 | 70.395,8808 |
| 497+0,000 | 99.372,4549 | 70.385,9386 |
| 498+0,000 | 99.389,8086 | 70.375,9963 |
| 499+0,000 | 99.407,1623 | 70.366,0541 |
| 500+0,000 | 99.424,5161 | 70.356,1118 |
| 501+0,000 | 99.441,8698 | 70.346,1695 |
| 502+0,000 | 99.459,2235 | 70.336,2273 |
| 503+0,000 | 99.476,5772 | 70.326,2850 |
| 504+0,000 | 99.493,9309 | 70.316,3427 |
| 505+0,000 | 99.511,2846 | 70.306,4005 |
| 506+0,000 | 99.528,6383 | 70.296,4582 |
| 507+0,000 | 99.545,9921 | 70.286,5159 |
| 508+0,000 | 99.563,3458 | 70.276,5737 |
| 509+0,000 | 99.580,6995 | 70.266,6314 |
| 510+0,000 | 99.598,0532 | 70.256,6891 |
| 511+0,000 | 99.615,4069 | 70.246,7469 |
| 512+0,000 | 99.632,7606 | 70.236,8046 |
| 513+0,000 | 99.650,1143 | 70.226,8624 |
| 514+0,000 | 99.667,4681 | 70.216,9201 |
| 515+0,000 | 99.684,8218 | 70.206,9778 |
| 516+0,000 | 99.702,1755 | 70.197,0356 |
| 517+0,000 | 99.719,5292 | 70.187,0933 |
| 518+0,000 | 99.736,8829 | 70.177,1510 |
| 519+0,000 | 99.754,2366 | 70.167,2088 |
| 520+0,000 | 99.771,5903 | 70.157,2665 |
| 521+0,000 | 99.788,9440 | 70.147,3242 |
| 522+0,000 | 99.806,2978 | 70.137,3820 |
| 523+0,000 | 99.823,6515 | 70.127,4397 |
| 524+0,000 | 99.841,0052 | 70.117,4974 |
| 525+0,000 | 99.858,3589 | 70.107,5552 |
| 526+0,000 | 99.875,7126 | 70.097,6129 |
| 527+0,000 | 99.893,0663 | 70.087,6707 |
| 528+0,000 | 99.910,4200 | 70.077,7284 |
| 529+0,000 | 99.927,7738 | 70.067,7861 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte        | Este        |
|---------------|--------------|-------------|
| 530+0,000     | 99.945,1275  | 70.057,8439 |
| 531+0,000     | 99.962,4812  | 70.047,9016 |
| 532+0,000     | 99.979,8349  | 70.037,9593 |
| 533+0,000     | 99.997,1886  | 70.028,0171 |
| 534+0,000     | 100.014,5423 | 70.018,0748 |
| 534+14,598 PI | 100.027,2088 | 70.010,8179 |
| 535+0,000     | 100.031,8894 | 70.008,1211 |
| 536+0,000     | 100.049,2188 | 69.998,1363 |
| 537+0,000     | 100.066,5481 | 69.988,1516 |
| 538+0,000     | 100.083,8774 | 69.978,1668 |
| 539+0,000     | 100.101,2067 | 69.968,1821 |
| 540+0,000     | 100.118,5360 | 69.958,1973 |
| 541+0,000     | 100.135,8653 | 69.948,2126 |
| 542+0,000     | 100.153,1946 | 69.938,2279 |
| 543+0,000     | 100.170,5239 | 69.928,2431 |
| 544+0,000     | 100.187,8532 | 69.918,2584 |
| 545+0,000     | 100.205,1825 | 69.908,2736 |
| 546+0,000     | 100.222,5118 | 69.898,2889 |
| 547+0,000     | 100.239,8411 | 69.888,3041 |
| 548+0,000     | 100.257,1704 | 69.878,3194 |
| 549+0,000     | 100.274,4997 | 69.868,3346 |
| 550+0,000     | 100.291,8290 | 69.858,3499 |
| 551+0,000     | 100.309,1584 | 69.848,3651 |
| 552+0,000     | 100.326,4877 | 69.838,3804 |
| 553+0,000     | 100.343,8170 | 69.828,3957 |
| 554+0,000     | 100.361,1463 | 69.818,4109 |
| 555+0,000     | 100.378,4756 | 69.808,4262 |
| 556+0,000     | 100.395,8049 | 69.798,4414 |
| 557+0,000     | 100.413,1342 | 69.788,4567 |
| 558+0,000     | 100.430,4635 | 69.778,4719 |
| 559+0,000     | 100.447,7928 | 69.768,4872 |
| 560+0,000     | 100.465,1221 | 69.758,5024 |
| 561+0,000     | 100.482,4514 | 69.748,5177 |
| 562+0,000     | 100.499,7807 | 69.738,5330 |
| 563+0,000     | 100.517,1100 | 69.728,5482 |
| 564+0,000     | 100.534,4393 | 69.718,5635 |
| 565+0,000     | 100.551,7686 | 69.708,5787 |
| 566+0,000     | 100.569,0980 | 69.698,5940 |
| 567+0,000     | 100.586,4273 | 69.688,6092 |
| 568+0,000     | 100.603,7566 | 69.678,6245 |
| 569+0,000     | 100.621,0859 | 69.668,6397 |
| 570+0,000     | 100.638,4152 | 69.658,6550 |
| 571+0,000     | 100.655,7445 | 69.648,6702 |
| 572+0,000     | 100.673,0738 | 69.638,6855 |
| 573+0,000     | 100.690,4031 | 69.628,7008 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca       | Norte        | Este        |
|--------------|--------------|-------------|
| 574+0,000    | 100.707,7324 | 69.618,7160 |
| 575+0,000    | 100.725,0617 | 69.608,7313 |
| 576+0,000    | 100.742,3910 | 69.598,7465 |
| 577+0,000    | 100.759,7203 | 69.588,7618 |
| 578+0,000    | 100.777,0496 | 69.578,7770 |
| 579+0,000    | 100.794,3789 | 69.568,7923 |
| 580+0,000    | 100.811,7082 | 69.558,8075 |
| 581+0,000    | 100.829,0376 | 69.548,8228 |
| 582+0,000    | 100.846,3669 | 69.538,8381 |
| 583+0,000    | 100.863,6962 | 69.528,8533 |
| 584+0,000    | 100.881,0255 | 69.518,8686 |
| 585+0,000    | 100.898,3548 | 69.508,8838 |
| 586+0,000    | 100.915,6841 | 69.498,8991 |
| 587+0,000    | 100.933,0134 | 69.488,9143 |
| 588+0,000    | 100.950,3427 | 69.478,9296 |
| 589+0,000    | 100.967,6720 | 69.468,9448 |
| 590+0,000    | 100.985,0013 | 69.458,9601 |
| 591+0,000    | 101.002,3306 | 69.448,9754 |
| 592+0,000    | 101.019,6599 | 69.438,9906 |
| 593+0,000    | 101.036,9892 | 69.429,0059 |
| 594+0,000    | 101.054,3185 | 69.419,0211 |
| 595+0,000    | 101.071,6478 | 69.409,0364 |
| 596+0,000    | 101.088,9772 | 69.399,0516 |
| 597+0,000    | 101.106,3065 | 69.389,0669 |
| 598+0,000    | 101.123,6358 | 69.379,0821 |
| 599+0,000    | 101.140,9651 | 69.369,0974 |
| 600+0,000    | 101.158,2944 | 69.359,1126 |
| 601+0,000    | 101.175,6237 | 69.349,1279 |
| 602+0,000    | 101.192,9530 | 69.339,1432 |
| 603+0,000    | 101.210,2823 | 69.329,1584 |
| 604+0,000    | 101.227,6116 | 69.319,1737 |
| 605+0,000    | 101.244,9409 | 69.309,1889 |
| 606+0,000    | 101.262,2702 | 69.299,2042 |
| 606+8,007 PI | 101.269,2080 | 69.295,2068 |
| 607+0,000    | 101.279,6124 | 69.289,2419 |
| 608+0,000    | 101.296,9633 | 69.279,2947 |
| 609+0,000    | 101.314,3142 | 69.269,3474 |
| 610+0,000    | 101.331,6650 | 69.259,4002 |
| 611+0,000    | 101.349,0159 | 69.249,4529 |
| 612+0,000    | 101.366,3667 | 69.239,5056 |
| 613+0,000    | 101.383,7176 | 69.229,5584 |
| 614+0,000    | 101.401,0684 | 69.219,6111 |
| 615+0,000    | 101.418,4193 | 69.209,6639 |
| 616+0,000    | 101.435,7701 | 69.199,7166 |
| 617+0,000    | 101.453,1210 | 69.189,7694 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca    | Norte        | Este        |
|-----------|--------------|-------------|
| 618+0,000 | 101.470,4718 | 69.179,8221 |
| 619+0,000 | 101.487,8227 | 69.169,8749 |
| 620+0,000 | 101.505,1736 | 69.159,9276 |
| 621+0,000 | 101.522,5244 | 69.149,9804 |
| 622+0,000 | 101.539,8753 | 69.140,0331 |
| 623+0,000 | 101.557,2261 | 69.130,0858 |
| 624+0,000 | 101.574,5770 | 69.120,1386 |
| 625+0,000 | 101.591,9278 | 69.110,1913 |
| 626+0,000 | 101.609,2787 | 69.100,2441 |
| 627+0,000 | 101.626,6295 | 69.090,2968 |
| 628+0,000 | 101.643,9804 | 69.080,3496 |
| 629+0,000 | 101.661,3312 | 69.070,4023 |
| 630+0,000 | 101.678,6821 | 69.060,4551 |
| 631+0,000 | 101.696,0329 | 69.050,5078 |
| 632+0,000 | 101.713,3838 | 69.040,5606 |
| 633+0,000 | 101.730,7347 | 69.030,6133 |
| 634+0,000 | 101.748,0855 | 69.020,6661 |
| 635+0,000 | 101.765,4364 | 69.010,7188 |
| 636+0,000 | 101.782,7872 | 69.000,7715 |
| 637+0,000 | 101.800,1381 | 68.990,8243 |
| 638+0,000 | 101.817,4889 | 68.980,8770 |
| 639+0,000 | 101.834,8398 | 68.970,9298 |
| 640+0,000 | 101.852,1906 | 68.960,9825 |
| 641+0,000 | 101.869,5415 | 68.951,0353 |
| 642+0,000 | 101.886,8923 | 68.941,0880 |
| 643+0,000 | 101.904,2432 | 68.931,1408 |
| 644+0,000 | 101.921,5940 | 68.921,1935 |
| 645+0,000 | 101.938,9449 | 68.911,2463 |
| 646+0,000 | 101.956,2958 | 68.901,2990 |
| 647+0,000 | 101.973,6466 | 68.891,3517 |
| 648+0,000 | 101.990,9975 | 68.881,4045 |
| 649+0,000 | 102.008,3483 | 68.871,4572 |
| 650+0,000 | 102.025,6992 | 68.861,5100 |
| 651+0,000 | 102.043,0500 | 68.851,5627 |
| 652+0,000 | 102.060,4009 | 68.841,6155 |
| 653+0,000 | 102.077,7517 | 68.831,6682 |
| 654+0,000 | 102.095,1026 | 68.821,7210 |
| 655+0,000 | 102.112,4534 | 68.811,7737 |
| 656+0,000 | 102.129,8043 | 68.801,8265 |
| 657+0,000 | 102.147,1551 | 68.791,8792 |
| 658+0,000 | 102.164,5060 | 68.781,9320 |
| 659+0,000 | 102.181,8569 | 68.771,9847 |
| 660+0,000 | 102.199,2077 | 68.762,0374 |
| 661+0,000 | 102.216,5586 | 68.752,0902 |
| 662+0,000 | 102.233,9094 | 68.742,1429 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte        | Este        |
|---------------|--------------|-------------|
| 663+0,000     | 102.251,2603 | 68.732,1957 |
| 664+0,000     | 102.268,6111 | 68.722,2484 |
| 665+0,000     | 102.285,9620 | 68.712,3012 |
| 666+0,000     | 102.303,3128 | 68.702,3539 |
| 667+0,000     | 102.320,6637 | 68.692,4067 |
| 668+0,000     | 102.338,0145 | 68.682,4594 |
| 669+0,000     | 102.355,3654 | 68.672,5122 |
| 670+0,000     | 102.372,7163 | 68.662,5649 |
| 671+0,000     | 102.390,0671 | 68.652,6176 |
| 672+0,000     | 102.407,4180 | 68.642,6704 |
| 673+0,000     | 102.424,7688 | 68.632,7231 |
| 674+0,000     | 102.442,1197 | 68.622,7759 |
| 675+0,000     | 102.459,4705 | 68.612,8286 |
| 676+0,000     | 102.476,8214 | 68.602,8814 |
| 677+0,000     | 102.494,1722 | 68.592,9341 |
| 678+0,000     | 102.511,5231 | 68.582,9869 |
| 679+0,000     | 102.528,8739 | 68.573,0396 |
| 680+0,000     | 102.546,2248 | 68.563,0924 |
| 681+0,000     | 102.563,5756 | 68.553,1451 |
| 682+0,000     | 102.580,9265 | 68.543,1979 |
| 683+0,000     | 102.598,2774 | 68.533,2506 |
| 683+14,823 PI | 102.611,1372 | 68.525,8780 |
| 684+0,000     | 102.615,6195 | 68.523,2882 |
| 685+0,000     | 102.632,9367 | 68.513,2826 |
| 686+0,000     | 102.650,2540 | 68.503,2769 |
| 687+0,000     | 102.667,5712 | 68.493,2712 |
| 688+0,000     | 102.684,8884 | 68.483,2655 |
| 689+0,000     | 102.702,2057 | 68.473,2599 |
| 690+0,000     | 102.719,5229 | 68.463,2542 |
| 691+0,000     | 102.736,8401 | 68.453,2485 |
| 692+0,000     | 102.754,1574 | 68.443,2428 |
| 693+0,000     | 102.771,4746 | 68.433,2372 |
| 694+0,000     | 102.788,7918 | 68.423,2315 |
| 695+0,000     | 102.806,1091 | 68.413,2258 |
| 696+0,000     | 102.823,4263 | 68.403,2202 |
| 697+0,000     | 102.840,7435 | 68.393,2145 |
| 698+0,000     | 102.858,0608 | 68.383,2088 |
| 699+0,000     | 102.875,3780 | 68.373,2031 |
| 700+0,000     | 102.892,6952 | 68.363,1975 |
| 701+0,000     | 102.910,0125 | 68.353,1918 |
| 702+0,000     | 102.927,3297 | 68.343,1861 |
| 703+0,000     | 102.944,6469 | 68.333,1805 |
| 704+0,000     | 102.961,9641 | 68.323,1748 |
| 705+0,000     | 102.979,2814 | 68.313,1691 |
| 706+0,000     | 102.996,5986 | 68.303,1634 |



**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca       | Norte        | Este        |
|--------------|--------------|-------------|
| 707+0,000    | 103.013,9158 | 68.293,1578 |
| 708+0,000    | 103.031,2331 | 68.283,1521 |
| 709+0,000    | 103.048,5503 | 68.273,1464 |
| 710+0,000    | 103.065,8675 | 68.263,1408 |
| 711+0,000    | 103.083,1848 | 68.253,1351 |
| 712+0,000    | 103.100,5020 | 68.243,1294 |
| 713+0,000    | 103.117,8192 | 68.233,1237 |
| 714+0,000    | 103.135,1365 | 68.223,1181 |
| 715+0,000    | 103.152,4537 | 68.213,1124 |
| 715+8,539 PI | 103.159,8470 | 68.208,8406 |
| 716+0,000    | 103.169,7829 | 68.203,1275 |
| 717+0,000    | 103.187,1211 | 68.193,1582 |
| 718+0,000    | 103.204,4593 | 68.183,1889 |
| 719+0,000    | 103.221,7975 | 68.173,2195 |
| 720+0,000    | 103.239,1356 | 68.163,2502 |
| 721+0,000    | 103.256,4738 | 68.153,2808 |
| 722+0,000    | 103.273,8120 | 68.143,3115 |
| 723+0,000    | 103.291,1501 | 68.133,3422 |
| 724+0,000    | 103.308,4883 | 68.123,3728 |
| 725+0,000    | 103.325,8265 | 68.113,4035 |
| 726+0,000    | 103.343,1647 | 68.103,4341 |
| 727+0,000    | 103.360,5028 | 68.093,4648 |
| 728+0,000    | 103.377,8410 | 68.083,4954 |
| 729+0,000    | 103.395,1792 | 68.073,5261 |
| 730+0,000    | 103.412,5174 | 68.063,5568 |
| 731+0,000    | 103.429,8555 | 68.053,5874 |
| 732+0,000    | 103.447,1937 | 68.043,6181 |
| 733+0,000    | 103.464,5319 | 68.033,6487 |
| 734+0,000    | 103.481,8700 | 68.023,6794 |
| 735+0,000    | 103.499,2082 | 68.013,7101 |
| 736+0,000    | 103.516,5464 | 68.003,7407 |
| 737+0,000    | 103.533,8846 | 67.993,7714 |
| 738+0,000    | 103.551,2227 | 67.983,8020 |
| 739+0,000    | 103.568,5609 | 67.973,8327 |
| 740+0,000    | 103.585,8991 | 67.963,8633 |
| 741+0,000    | 103.603,2373 | 67.953,8940 |
| 742+0,000    | 103.620,5754 | 67.943,9247 |
| 743+0,000    | 103.637,9136 | 67.933,9553 |
| 744+0,000    | 103.655,2518 | 67.923,9860 |
| 745+0,000    | 103.672,5899 | 67.914,0166 |
| 746+0,000    | 103.689,9281 | 67.904,0473 |
| 747+0,000    | 103.707,2663 | 67.894,0780 |
| 748+0,000    | 103.724,6045 | 67.884,1086 |
| 749+0,000    | 103.741,9426 | 67.874,1393 |
| 750+0,000    | 103.759,2808 | 67.864,1699 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca    | Norte        | Este        |
|-----------|--------------|-------------|
| 751+0,000 | 103.776,6190 | 67.854,2006 |
| 752+0,000 | 103.793,9571 | 67.844,2312 |
| 753+0,000 | 103.811,2953 | 67.834,2619 |
| 754+0,000 | 103.828,6335 | 67.824,2926 |
| 755+0,000 | 103.845,9717 | 67.814,3232 |
| 756+0,000 | 103.863,3098 | 67.804,3539 |
| 757+0,000 | 103.880,6480 | 67.794,3845 |
| 758+0,000 | 103.897,9862 | 67.784,4152 |
| 759+0,000 | 103.915,3244 | 67.774,4459 |
| 760+0,000 | 103.932,6625 | 67.764,4765 |
| 761+0,000 | 103.950,0007 | 67.754,5072 |
| 762+0,000 | 103.967,3389 | 67.744,5378 |
| 763+0,000 | 103.984,6770 | 67.734,5685 |
| 764+0,000 | 104.002,0152 | 67.724,5991 |
| 765+0,000 | 104.019,3534 | 67.714,6298 |
| 766+0,000 | 104.036,6916 | 67.704,6605 |
| 767+0,000 | 104.054,0297 | 67.694,6911 |
| 768+0,000 | 104.071,3679 | 67.684,7218 |
| 769+0,000 | 104.088,7061 | 67.674,7524 |
| 770+0,000 | 104.106,0443 | 67.664,7831 |
| 771+0,000 | 104.123,3824 | 67.654,8138 |
| 772+0,000 | 104.140,7206 | 67.644,8444 |
| 773+0,000 | 104.158,0588 | 67.634,8751 |
| 774+0,000 | 104.175,3969 | 67.624,9057 |
| 775+0,000 | 104.192,7351 | 67.614,9364 |
| 776+0,000 | 104.210,0733 | 67.604,9671 |
| 777+0,000 | 104.227,4115 | 67.594,9977 |
| 778+0,000 | 104.244,7496 | 67.585,0284 |
| 779+0,000 | 104.262,0878 | 67.575,0590 |
| 780+0,000 | 104.279,4260 | 67.565,0897 |
| 781+0,000 | 104.296,7642 | 67.555,1203 |
| 782+0,000 | 104.314,1023 | 67.545,1510 |
| 783+0,000 | 104.331,4405 | 67.535,1817 |
| 784+0,000 | 104.348,7787 | 67.525,2123 |
| 785+0,000 | 104.366,1168 | 67.515,2430 |
| 786+0,000 | 104.383,4550 | 67.505,2736 |
| 787+0,000 | 104.400,7932 | 67.495,3043 |
| 788+0,000 | 104.418,1314 | 67.485,3350 |
| 789+0,000 | 104.435,4695 | 67.475,3656 |
| 790+0,000 | 104.452,8077 | 67.465,3963 |
| 791+0,000 | 104.470,1459 | 67.455,4269 |
| 792+0,000 | 104.487,4841 | 67.445,4576 |
| 793+0,000 | 104.504,8222 | 67.435,4882 |
| 794+0,000 | 104.522,1604 | 67.425,5189 |
| 795+0,000 | 104.539,4986 | 67.415,5496 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte        | Este        |
|---------------|--------------|-------------|
| 796+0,000     | 104.556,8367 | 67.405,5802 |
| 797+0,000     | 104.574,1749 | 67.395,6109 |
| 798+0,000     | 104.591,5131 | 67.385,6415 |
| 799+0,000     | 104.608,8513 | 67.375,6722 |
| 800+0,000     | 104.626,1894 | 67.365,7029 |
| 801+0,000     | 104.643,5276 | 67.355,7335 |
| 802+0,000     | 104.660,8658 | 67.345,7642 |
| 803+0,000     | 104.678,2040 | 67.335,7948 |
| 804+0,000     | 104.695,5421 | 67.325,8255 |
| 805+0,000     | 104.712,8803 | 67.315,8561 |
| 806+0,000     | 104.730,2185 | 67.305,8868 |
| 807+0,000     | 104.747,5566 | 67.295,9175 |
| 808+0,000     | 104.764,8948 | 67.285,9481 |
| 809+0,000     | 104.782,2330 | 67.275,9788 |
| 810+0,000     | 104.799,5712 | 67.266,0094 |
| 811+0,000     | 104.816,9093 | 67.256,0401 |
| 812+0,000     | 104.834,2475 | 67.246,0708 |
| 813+0,000     | 104.851,5857 | 67.236,1014 |
| 814+0,000     | 104.868,9239 | 67.226,1321 |
| 815+0,000     | 104.886,2620 | 67.216,1627 |
| 816+0,000     | 104.903,6002 | 67.206,1934 |
| 817+0,000     | 104.920,9384 | 67.196,2241 |
| 818+0,000     | 104.938,2765 | 67.186,2547 |
| 819+0,000     | 104.955,6147 | 67.176,2854 |
| 820+0,000     | 104.972,9529 | 67.166,3160 |
| 821+0,000     | 104.990,2911 | 67.156,3467 |
| 822+0,000     | 105.007,6292 | 67.146,3773 |
| 823+0,000     | 105.024,9674 | 67.136,4080 |
| 824+0,000     | 105.042,3056 | 67.126,4387 |
| 825+0,000     | 105.059,6438 | 67.116,4693 |
| 826+0,000     | 105.076,9819 | 67.106,5000 |
| 827+0,000     | 105.094,3201 | 67.096,5306 |
| 828+0,000     | 105.111,6583 | 67.086,5613 |
| 829+0,000     | 105.128,9964 | 67.076,5920 |
| 830+0,000     | 105.146,3346 | 67.066,6226 |
| 831+0,000     | 105.163,6728 | 67.056,6533 |
| 832+0,000     | 105.181,0110 | 67.046,6839 |
| 833+0,000     | 105.198,3491 | 67.036,7146 |
| 834+0,000     | 105.215,6873 | 67.026,7452 |
| 835+0,000     | 105.233,0255 | 67.016,7759 |
| 836+0,000     | 105.250,3636 | 67.006,8066 |
| 837+0,000     | 105.267,7018 | 66.996,8372 |
| 838+0,000     | 105.285,0400 | 66.986,8679 |
| 838+14,215 TE | 105.297,3634 | 66.979,7820 |
| 839+0,000     | 105.302,3773 | 66.976,8971 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte        | Este        |
|---------------|--------------|-------------|
| 840+0,000     | 105.319,6430 | 66.966,8032 |
| 841+0,000     | 105.336,6364 | 66.956,2590 |
| 842+0,000     | 105.353,1176 | 66.944,9336 |
| 842+14,215 EC | 105.364,3653 | 66.936,2437 |
| 843+0,000     | 105.368,8012 | 66.932,5309 |
| 844+0,000     | 105.383,4374 | 66.918,9089 |
| 845+0,000     | 105.396,9141 | 66.904,1388 |
| 846+0,000     | 105.409,1416 | 66.888,3190 |
| 847+0,000     | 105.420,0383 | 66.871,5548 |
| 848+0,000     | 105.429,5318 | 66.853,9578 |
| 849+0,000     | 105.437,5588 | 66.835,6454 |
| 850+0,000     | 105.444,0658 | 66.816,7394 |
| 851+0,000     | 105.449,0095 | 66.797,3658 |
| 852+0,000     | 105.452,3570 | 66.777,6535 |
| 853+0,000     | 105.454,0859 | 66.757,7340 |
| 853+2,983 CE  | 105.454,2043 | 66.754,7535 |
| 854+0,000     | 105.454,2268 | 66.737,7391 |
| 855+0,000     | 105.453,0832 | 66.717,7743 |
| 856+0,000     | 105.451,0653 | 66.697,8773 |
| 857+0,000     | 105.448,5812 | 66.678,0323 |
| 857+2,983 ET  | 105.448,1957 | 66.675,0745 |
| 858+0,000     | 105.445,9952 | 66.658,2002 |
| 859+0,000     | 105.443,4089 | 66.638,3681 |
| 860+0,000     | 105.440,8227 | 66.618,5360 |
| 861+0,000     | 105.438,2364 | 66.598,7040 |
| 862+0,000     | 105.435,6501 | 66.578,8719 |
| 863+0,000     | 105.433,0639 | 66.559,0398 |
| 864+0,000     | 105.430,4776 | 66.539,2077 |
| 865+0,000     | 105.427,8913 | 66.519,3757 |
| 866+0,000     | 105.425,3051 | 66.499,5436 |
| 867+0,000     | 105.422,7188 | 66.479,7115 |
| 868+0,000     | 105.420,1326 | 66.459,8794 |
| 869+0,000     | 105.417,5463 | 66.440,0473 |
| 870+0,000     | 105.414,9600 | 66.420,2153 |
| 871+0,000     | 105.412,3738 | 66.400,3832 |
| 872+0,000     | 105.409,7875 | 66.380,5511 |
| 873+0,000     | 105.407,2012 | 66.360,7190 |
| 874+0,000     | 105.404,6150 | 66.340,8870 |
| 875+0,000     | 105.402,0287 | 66.321,0549 |
| 876+0,000     | 105.399,4425 | 66.301,2228 |
| 877+0,000     | 105.396,8562 | 66.281,3907 |
| 878+0,000     | 105.394,2699 | 66.261,5587 |
| 879+0,000     | 105.391,6837 | 66.241,7266 |
| 879+5,392 PI  | 105.390,9865 | 66.236,3804 |
| 880+0,000     | 105.389,0537 | 66.221,9003 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca    | Norte        | Este        |
|-----------|--------------|-------------|
| 881+0,000 | 105.386,4075 | 66.202,0761 |
| 882+0,000 | 105.383,7614 | 66.182,2519 |
| 883+0,000 | 105.381,1153 | 66.162,4278 |
| 884+0,000 | 105.378,4691 | 66.142,6036 |
| 885+0,000 | 105.375,8230 | 66.122,7794 |
| 886+0,000 | 105.373,1768 | 66.102,9552 |
| 887+0,000 | 105.370,5307 | 66.083,1311 |
| 888+0,000 | 105.367,8845 | 66.063,3069 |
| 889+0,000 | 105.365,2384 | 66.043,4827 |
| 890+0,000 | 105.362,5923 | 66.023,6585 |
| 891+0,000 | 105.359,9461 | 66.003,8343 |
| 892+0,000 | 105.357,3000 | 65.984,0102 |
| 893+0,000 | 105.354,6538 | 65.964,1860 |
| 894+0,000 | 105.352,0077 | 65.944,3618 |
| 895+0,000 | 105.349,3616 | 65.924,5376 |
| 896+0,000 | 105.346,7154 | 65.904,7135 |
| 897+0,000 | 105.344,0693 | 65.884,8893 |
| 898+0,000 | 105.341,4231 | 65.865,0651 |
| 899+0,000 | 105.338,7770 | 65.845,2409 |
| 900+0,000 | 105.336,1309 | 65.825,4168 |
| 901+0,000 | 105.333,4847 | 65.805,5926 |
| 902+0,000 | 105.330,8386 | 65.785,7684 |
| 903+0,000 | 105.328,1924 | 65.765,9442 |
| 904+0,000 | 105.325,5463 | 65.746,1201 |
| 905+0,000 | 105.322,9002 | 65.726,2959 |
| 906+0,000 | 105.320,2540 | 65.706,4717 |
| 907+0,000 | 105.317,6079 | 65.686,6475 |
| 908+0,000 | 105.314,9617 | 65.666,8234 |
| 909+0,000 | 105.312,3156 | 65.646,9992 |
| 910+0,000 | 105.309,6695 | 65.627,1750 |
| 911+0,000 | 105.307,0233 | 65.607,3508 |
| 912+0,000 | 105.304,3772 | 65.587,5267 |
| 913+0,000 | 105.301,7310 | 65.567,7025 |
| 914+0,000 | 105.299,0849 | 65.547,8783 |
| 915+0,000 | 105.296,4388 | 65.528,0541 |
| 916+0,000 | 105.293,7926 | 65.508,2300 |
| 917+0,000 | 105.291,1465 | 65.488,4058 |
| 918+0,000 | 105.288,5003 | 65.468,5816 |
| 919+0,000 | 105.285,8542 | 65.448,7574 |
| 920+0,000 | 105.283,2081 | 65.428,9333 |
| 921+0,000 | 105.280,5619 | 65.409,1091 |
| 922+0,000 | 105.277,9158 | 65.389,2849 |
| 923+0,000 | 105.275,2696 | 65.369,4607 |
| 924+0,000 | 105.272,6235 | 65.349,6366 |
| 925+0,000 | 105.269,9773 | 65.329,8124 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca       | Norte        | Este        |
|--------------|--------------|-------------|
| 926+0,000    | 105.267,3312 | 65.309,9882 |
| 927+0,000    | 105.264,6851 | 65.290,1640 |
| 927+8,275 PI | 105.263,5903 | 65.281,9620 |
| 928+0,000    | 105.261,8476 | 65.270,3670 |
| 929+0,000    | 105.258,8751 | 65.250,5891 |
| 930+0,000    | 105.255,9026 | 65.230,8113 |
| 931+0,000    | 105.252,9301 | 65.211,0334 |
| 932+0,000    | 105.249,9576 | 65.191,2555 |
| 933+0,000    | 105.246,9850 | 65.171,4776 |
| 934+0,000    | 105.244,0125 | 65.151,6998 |
| 935+0,000    | 105.241,0400 | 65.131,9219 |
| 936+0,000    | 105.238,0675 | 65.112,1440 |
| 937+0,000    | 105.235,0950 | 65.092,3662 |
| 938+0,000    | 105.232,1225 | 65.072,5883 |
| 939+0,000    | 105.229,1500 | 65.052,8104 |
| 940+0,000    | 105.226,1775 | 65.033,0325 |
| 941+0,000    | 105.223,2050 | 65.013,2547 |
| 942+0,000    | 105.220,2325 | 64.993,4768 |
| 943+0,000    | 105.217,2600 | 64.973,6989 |
| 944+0,000    | 105.214,2875 | 64.953,9211 |
| 945+0,000    | 105.211,3149 | 64.934,1432 |
| 946+0,000    | 105.208,3424 | 64.914,3653 |
| 947+0,000    | 105.205,3699 | 64.894,5874 |
| 948+0,000    | 105.202,3974 | 64.874,8096 |
| 949+0,000    | 105.199,4249 | 64.855,0317 |
| 950+0,000    | 105.196,4524 | 64.835,2538 |
| 951+0,000    | 105.193,4799 | 64.815,4760 |
| 952+0,000    | 105.190,5074 | 64.795,6981 |
| 953+0,000    | 105.187,5349 | 64.775,9202 |
| 954+0,000    | 105.184,5624 | 64.756,1423 |
| 955+0,000    | 105.181,5899 | 64.736,3645 |
| 956+0,000    | 105.178,6173 | 64.716,5866 |
| 957+0,000    | 105.175,6448 | 64.696,8087 |
| 958+0,000    | 105.172,6723 | 64.677,0309 |
| 959+0,000    | 105.169,6998 | 64.657,2530 |
| 960+0,000    | 105.166,7273 | 64.637,4751 |
| 961+0,000    | 105.163,7548 | 64.617,6972 |
| 962+0,000    | 105.160,7823 | 64.597,9194 |
| 963+0,000    | 105.157,8098 | 64.578,1415 |
| 964+0,000    | 105.154,8373 | 64.558,3636 |
| 965+0,000    | 105.151,8648 | 64.538,5858 |
| 966+0,000    | 105.148,8923 | 64.518,8079 |
| 967+0,000    | 105.145,9198 | 64.499,0300 |
| 968+0,000    | 105.142,9472 | 64.479,2521 |
| 969+0,000    | 105.139,9747 | 64.459,4743 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte        | Este        |
|---------------|--------------|-------------|
| 970+0,000     | 105.137,0022 | 64.439,6964 |
| 971+0,000     | 105.134,0297 | 64.419,9185 |
| 972+0,000     | 105.131,0572 | 64.400,1407 |
| 973+0,000     | 105.128,0847 | 64.380,3628 |
| 974+0,000     | 105.125,1122 | 64.360,5849 |
| 975+0,000     | 105.122,1397 | 64.340,8070 |
| 976+0,000     | 105.119,1672 | 64.321,0292 |
| 977+0,000     | 105.116,1947 | 64.301,2513 |
| 978+0,000     | 105.113,2222 | 64.281,4734 |
| 979+0,000     | 105.110,2497 | 64.261,6956 |
| 980+0,000     | 105.107,2771 | 64.241,9177 |
| 981+0,000     | 105.104,3046 | 64.222,1398 |
| 982+0,000     | 105.101,3321 | 64.202,3619 |
| 982+10,142 PC | 105.099,8247 | 64.192,3324 |
| 983+0,000     | 105.098,2796 | 64.182,5966 |
| 984+0,000     | 105.094,6544 | 64.162,9288 |
| 985+0,000     | 105.090,3758 | 64.143,3928 |
| 986+0,000     | 105.085,4485 | 64.124,0102 |
| 987+0,000     | 105.079,8779 | 64.104,8026 |
| 988+0,000     | 105.073,6703 | 64.085,7913 |
| 989+0,000     | 105.066,8326 | 64.066,9975 |
| 990+0,000     | 105.059,3723 | 64.048,4420 |
| 991+0,000     | 105.051,2977 | 64.030,1454 |
| 992+0,000     | 105.042,6179 | 64.012,1281 |
| 993+0,000     | 105.033,3424 | 63.994,4100 |
| 994+0,000     | 105.023,4816 | 63.977,0110 |
| 995+0,000     | 105.013,0464 | 63.959,9502 |
| 996+0,000     | 105.002,0484 | 63.943,2467 |
| 997+0,000     | 104.990,4999 | 63.926,9190 |
| 998+0,000     | 104.978,4136 | 63.910,9853 |
| 998+6,945 PT  | 104.974,0931 | 63.905,5475 |
| 999+0,000     | 104.965,9130 | 63.895,3734 |
| 1000+0,000    | 104.953,3810 | 63.879,7866 |
| 1001+0,000    | 104.940,8490 | 63.864,1998 |
| 1002+0,000    | 104.928,3170 | 63.848,6129 |
| 1003+0,000    | 104.915,7850 | 63.833,0261 |
| 1004+0,000    | 104.903,2530 | 63.817,4393 |
| 1005+0,000    | 104.890,7209 | 63.801,8525 |
| 1006+0,000    | 104.878,1889 | 63.786,2657 |
| 1007+0,000    | 104.865,6569 | 63.770,6789 |
| 1008+0,000    | 104.853,1249 | 63.755,0920 |
| 1009+0,000    | 104.840,5929 | 63.739,5052 |
| 1010+0,000    | 104.828,0609 | 63.723,9184 |
| 1011+0,000    | 104.815,5289 | 63.708,3316 |
| 1012+0,000    | 104.802,9969 | 63.692,7448 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca     | Norte        | Este        |
|------------|--------------|-------------|
| 1013+0,000 | 104.790,4649 | 63.677,1579 |
| 1014+0,000 | 104.777,9329 | 63.661,5711 |
| 1015+0,000 | 104.765,4009 | 63.645,9843 |
| 1016+0,000 | 104.752,8689 | 63.630,3975 |
| 1017+0,000 | 104.740,3369 | 63.614,8107 |
| 1018+0,000 | 104.727,8049 | 63.599,2239 |
| 1019+0,000 | 104.715,2729 | 63.583,6370 |
| 1020+0,000 | 104.702,7409 | 63.568,0502 |
| 1021+0,000 | 104.690,2089 | 63.552,4634 |
| 1022+0,000 | 104.677,6769 | 63.536,8766 |
| 1023+0,000 | 104.665,1449 | 63.521,2898 |
| 1024+0,000 | 104.652,6129 | 63.505,7030 |
| 1025+0,000 | 104.640,0809 | 63.490,1161 |
| 1026+0,000 | 104.627,5489 | 63.474,5293 |
| 1027+0,000 | 104.615,0169 | 63.458,9425 |
| 1028+0,000 | 104.602,4849 | 63.443,3557 |
| 1029+0,000 | 104.589,9528 | 63.427,7689 |
| 1030+0,000 | 104.577,4208 | 63.412,1821 |
| 1031+0,000 | 104.564,8888 | 63.396,5952 |
| 1032+0,000 | 104.552,3568 | 63.381,0084 |
| 1033+0,000 | 104.539,8248 | 63.365,4216 |
| 1034+0,000 | 104.527,2928 | 63.349,8348 |
| 1035+0,000 | 104.514,7608 | 63.334,2480 |
| 1036+0,000 | 104.502,2288 | 63.318,6612 |
| 1037+0,000 | 104.489,6968 | 63.303,0743 |
| 1038+0,000 | 104.477,1648 | 63.287,4875 |
| 1039+0,000 | 104.464,6328 | 63.271,9007 |
| 1040+0,000 | 104.452,1008 | 63.256,3139 |
| 1041+0,000 | 104.439,5688 | 63.240,7271 |
| 1042+0,000 | 104.427,0368 | 63.225,1402 |
| 1043+0,000 | 104.414,5048 | 63.209,5534 |
| 1044+0,000 | 104.401,9728 | 63.193,9666 |
| 1045+0,000 | 104.389,4408 | 63.178,3798 |
| 1046+0,000 | 104.376,9088 | 63.162,7930 |
| 1047+0,000 | 104.364,3768 | 63.147,2062 |
| 1048+0,000 | 104.351,8448 | 63.131,6193 |
| 1049+0,000 | 104.339,3128 | 63.116,0325 |
| 1050+0,000 | 104.326,7808 | 63.100,4457 |
| 1051+0,000 | 104.314,2488 | 63.084,8589 |
| 1052+0,000 | 104.301,7168 | 63.069,2721 |
| 1053+0,000 | 104.289,1848 | 63.053,6853 |
| 1054+0,000 | 104.276,6527 | 63.038,0984 |
| 1055+0,000 | 104.264,1207 | 63.022,5116 |
| 1056+0,000 | 104.251,5887 | 63.006,9248 |
| 1057+0,000 | 104.239,0567 | 62.991,3380 |



**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca         | Norte        | Este        |
|----------------|--------------|-------------|
| 1058+0,000     | 104.226,5247 | 62.975,7512 |
| 1059+0,000     | 104.213,9927 | 62.960,1644 |
| 1060+0,000     | 104.201,4607 | 62.944,5775 |
| 1061+0,000     | 104.188,9287 | 62.928,9907 |
| 1062+0,000     | 104.176,3967 | 62.913,4039 |
| 1063+0,000     | 104.163,8647 | 62.897,8171 |
| 1064+0,000     | 104.151,3327 | 62.882,2303 |
| 1065+0,000     | 104.138,8007 | 62.866,6434 |
| 1066+0,000     | 104.126,2687 | 62.851,0566 |
| 1067+0,000     | 104.113,7367 | 62.835,4698 |
| 1068+0,000     | 104.101,2047 | 62.819,8830 |
| 1069+0,000     | 104.088,6727 | 62.804,2962 |
| 1070+0,000     | 104.076,1407 | 62.788,7094 |
| 1071+0,000     | 104.063,6087 | 62.773,1225 |
| 1072+0,000     | 104.051,0767 | 62.757,5357 |
| 1073+0,000     | 104.038,5447 | 62.741,9489 |
| 1074+0,000     | 104.026,0127 | 62.726,3621 |
| 1075+0,000     | 104.013,4807 | 62.710,7753 |
| 1076+0,000     | 104.000,9487 | 62.695,1885 |
| 1077+0,000     | 103.988,4167 | 62.679,6016 |
| 1078+0,000     | 103.975,8846 | 62.664,0148 |
| 1079+0,000     | 103.963,3526 | 62.648,4280 |
| 1080+0,000     | 103.950,8206 | 62.632,8412 |
| 1081+0,000     | 103.938,2886 | 62.617,2544 |
| 1082+0,000     | 103.925,7566 | 62.601,6676 |
| 1082+1,847 PC  | 103.924,5993 | 62.600,2281 |
| 1083+0,000     | 103.913,2675 | 62.586,0464 |
| 1084+0,000     | 103.900,8823 | 62.570,3427 |
| 1085+0,000     | 103.888,6021 | 62.554,5568 |
| 1086+0,000     | 103.876,4275 | 62.538,6893 |
| 1087+0,000     | 103.864,3588 | 62.522,7411 |
| 1088+0,000     | 103.852,3968 | 62.506,7127 |
| 1089+0,000     | 103.840,5419 | 62.490,6050 |
| 1090+0,000     | 103.828,7946 | 62.474,4186 |
| 1090+18,321 PT | 103.818,1286 | 62.459,5228 |
| 1091+0,000     | 103.817,1551 | 62.458,1545 |
| 1092+0,000     | 103.805,5611 | 62.441,8579 |
| 1093+0,000     | 103.793,9672 | 62.425,5612 |
| 1094+0,000     | 103.782,3732 | 62.409,2646 |
| 1095+0,000     | 103.770,7792 | 62.392,9680 |
| 1096+0,000     | 103.759,1853 | 62.376,6714 |
| 1097+0,000     | 103.747,5913 | 62.360,3747 |
| 1098+0,000     | 103.735,9973 | 62.344,0781 |
| 1099+0,000     | 103.724,4034 | 62.327,7815 |
| 1100+0,000     | 103.712,8094 | 62.311,4849 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca     | Norte        | Este        |
|------------|--------------|-------------|
| 1101+0,000 | 103.701,2154 | 62.295,1883 |
| 1102+0,000 | 103.689,6215 | 62.278,8916 |
| 1103+0,000 | 103.678,0275 | 62.262,5950 |
| 1104+0,000 | 103.666,4335 | 62.246,2984 |
| 1105+0,000 | 103.654,8396 | 62.230,0018 |
| 1106+0,000 | 103.643,2456 | 62.213,7052 |
| 1107+0,000 | 103.631,6516 | 62.197,4085 |
| 1108+0,000 | 103.620,0576 | 62.181,1119 |
| 1109+0,000 | 103.608,4637 | 62.164,8153 |
| 1110+0,000 | 103.596,8697 | 62.148,5187 |
| 1111+0,000 | 103.585,2757 | 62.132,2220 |
| 1112+0,000 | 103.573,6818 | 62.115,9254 |
| 1113+0,000 | 103.562,0878 | 62.099,6288 |
| 1114+0,000 | 103.550,4938 | 62.083,3322 |
| 1115+0,000 | 103.538,8999 | 62.067,0356 |
| 1116+0,000 | 103.527,3059 | 62.050,7389 |
| 1117+0,000 | 103.515,7119 | 62.034,4423 |
| 1118+0,000 | 103.504,1180 | 62.018,1457 |
| 1119+0,000 | 103.492,5240 | 62.001,8491 |
| 1120+0,000 | 103.480,9300 | 61.985,5524 |
| 1121+0,000 | 103.469,3360 | 61.969,2558 |
| 1122+0,000 | 103.457,7421 | 61.952,9592 |
| 1123+0,000 | 103.446,1481 | 61.936,6626 |
| 1124+0,000 | 103.434,5541 | 61.920,3660 |
| 1125+0,000 | 103.422,9602 | 61.904,0693 |
| 1126+0,000 | 103.411,3662 | 61.887,7727 |
| 1127+0,000 | 103.399,7722 | 61.871,4761 |
| 1128+0,000 | 103.388,1783 | 61.855,1795 |
| 1129+0,000 | 103.376,5843 | 61.838,8828 |
| 1130+0,000 | 103.364,9903 | 61.822,5862 |
| 1131+0,000 | 103.353,3964 | 61.806,2896 |
| 1132+0,000 | 103.341,8024 | 61.789,9930 |
| 1133+0,000 | 103.330,2084 | 61.773,6964 |
| 1134+0,000 | 103.318,6145 | 61.757,3997 |
| 1135+0,000 | 103.307,0205 | 61.741,1031 |
| 1136+0,000 | 103.295,4265 | 61.724,8065 |
| 1137+0,000 | 103.283,8325 | 61.708,5099 |
| 1138+0,000 | 103.272,2386 | 61.692,2132 |
| 1139+0,000 | 103.260,6446 | 61.675,9166 |
| 1140+0,000 | 103.249,0506 | 61.659,6200 |
| 1141+0,000 | 103.237,4567 | 61.643,3234 |
| 1142+0,000 | 103.225,8627 | 61.627,0268 |
| 1143+0,000 | 103.214,2687 | 61.610,7301 |
| 1144+0,000 | 103.202,6748 | 61.594,4335 |
| 1145+0,000 | 103.191,0808 | 61.578,1369 |

**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca        | Norte        | Este        |
|---------------|--------------|-------------|
| 1146+0,000    | 103.179,4868 | 61.561,8403 |
| 1147+0,000    | 103.167,8929 | 61.545,5437 |
| 1148+0,000    | 103.156,2989 | 61.529,2470 |
| 1149+0,000    | 103.144,7049 | 61.512,9504 |
| 1150+0,000    | 103.133,1110 | 61.496,6538 |
| 1151+0,000    | 103.121,5170 | 61.480,3572 |
| 1152+0,000    | 103.109,9230 | 61.464,0605 |
| 1153+0,000    | 103.098,3290 | 61.447,7639 |
| 1154+0,000    | 103.086,7351 | 61.431,4673 |
| 1155+0,000    | 103.075,1411 | 61.415,1707 |
| 1156+0,000    | 103.063,5471 | 61.398,8741 |
| 1157+0,000    | 103.051,9532 | 61.382,5774 |
| 1158+0,000    | 103.040,3592 | 61.366,2808 |
| 1159+0,000    | 103.028,7652 | 61.349,9842 |
| 1160+0,000    | 103.017,1713 | 61.333,6876 |
| 1161+0,000    | 103.005,5773 | 61.317,3909 |
| 1162+0,000    | 102.993,9833 | 61.301,0943 |
| 1163+0,000    | 102.982,3894 | 61.284,7977 |
| 1164+0,000    | 102.970,7954 | 61.268,5011 |
| 1165+0,000    | 102.959,2014 | 61.252,2045 |
| 1166+0,000    | 102.947,6075 | 61.235,9078 |
| 1167+0,000    | 102.936,0135 | 61.219,6112 |
| 1168+0,000    | 102.924,4195 | 61.203,3146 |
| 1169+0,000    | 102.912,8255 | 61.187,0180 |
| 1170+0,000    | 102.901,2316 | 61.170,7213 |
| 1171+0,000    | 102.889,6376 | 61.154,4247 |
| 1172+0,000    | 102.878,0436 | 61.138,1281 |
| 1173+0,000    | 102.866,4497 | 61.121,8315 |
| 1174+0,000    | 102.854,8557 | 61.105,5349 |
| 1175+0,000    | 102.843,2617 | 61.089,2382 |
| 1176+0,000    | 102.831,6678 | 61.072,9416 |
| 1177+0,000    | 102.820,0738 | 61.056,6450 |
| 1178+0,000    | 102.808,4798 | 61.040,3484 |
| 1179+0,000    | 102.796,8859 | 61.024,0517 |
| 1180+0,000    | 102.785,2919 | 61.007,7551 |
| 1181+0,000    | 102.773,6979 | 60.991,4585 |
| 1182+0,000    | 102.762,1040 | 60.975,1619 |
| 1183+0,000    | 102.750,5100 | 60.958,8653 |
| 1183+7,672 PC | 102.746,0625 | 60.952,6138 |
| 1184+0,000    | 102.738,8212 | 60.942,6370 |
| 1185+0,000    | 102.726,6748 | 60.926,7488 |
| 1186+0,000    | 102.714,0455 | 60.911,2418 |
| 1187+0,000    | 102.700,9450 | 60.896,1307 |
| 1188+0,000    | 102.687,3858 | 60.881,4297 |
| 1189+0,000    | 102.673,3808 | 60.867,1529 |

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**Rodovia: RO-010 Lote 01**  
**Coordenadas Topográficas**

| Estaca         | Norte        | Este        |
|----------------|--------------|-------------|
| 1190+0,000     | 102.658,9433 | 60.853,3136 |
| 1191+0,000     | 102.644,0868 | 60.839,9251 |
| 1192+0,000     | 102.628,8254 | 60.827,0000 |
| 1193+0,000     | 102.613,1736 | 60.814,5505 |
| 1194+0,000     | 102.597,1462 | 60.802,5884 |
| 1194+15,502 PT | 102.584,4749 | 60.793,6592 |
| 1195+0,000     | 102.580,7672 | 60.791,1121 |
| 1196+0,000     | 102.564,2824 | 60.779,7875 |
| 1197+0,000     | 102.547,7975 | 60.768,4628 |
| 1198+0,000     | 102.531,3126 | 60.757,1381 |
| 1199+0,000     | 102.514,8277 | 60.745,8134 |
| 1200+0,000     | 102.498,3428 | 60.734,4887 |

**Interseção 01 - Ramo 01**  
**Coordenadas Topográficas**

| Estaca       | Norte        | Este        |
|--------------|--------------|-------------|
| 0+0,000      | 105.297,3634 | 66.979,7820 |
| 1+0,000      | 105.314,7015 | 66.969,8127 |
| 2+0,000      | 105.332,0397 | 66.959,8433 |
| 3+0,000      | 105.349,3779 | 66.949,8740 |
| 4+0,000      | 105.366,7160 | 66.939,9047 |
| 5+0,000      | 105.384,0542 | 66.929,9353 |
| 6+0,000      | 105.401,3924 | 66.919,9660 |
| 7+0,000      | 105.418,7306 | 66.909,9966 |
| 8+0,000      | 105.436,0687 | 66.900,0273 |
| 8+13,231 PC  | 105.447,5391 | 66.893,4319 |
| 9+0,000      | 105.453,8465 | 66.891,0585 |
| 10+0,000     | 105.472,3399 | 66.896,3863 |
| 10+14,257 PT | 105.478,6816 | 66.908,8476 |

**Interseção 01 - Ramo 02**  
**Coordenadas Topográficas**

| Estaca    | Norte        | Este        |
|-----------|--------------|-------------|
| 0+0,000   | 105.478,6816 | 66.908,8476 |
| 1+0,000   | 105.476,0954 | 66.889,0156 |
| 2+0,000   | 105.473,5091 | 66.869,1835 |
| 3+0,000   | 105.470,9228 | 66.849,3514 |
| 4+0,000   | 105.468,3366 | 66.829,5193 |
| 5+0,000   | 105.465,7503 | 66.809,6872 |
| 6+0,000   | 105.463,1640 | 66.789,8552 |
| 7+0,000   | 105.460,5778 | 66.770,0231 |
| 8+0,000   | 105.457,9915 | 66.750,1910 |
| 9+0,000   | 105.455,4053 | 66.730,3589 |
| 10+0,000  | 105.452,8190 | 66.710,5269 |
| 11+0,000  | 105.450,2327 | 66.690,6948 |
| 11+15,753 | 105.448,1957 | 66.675,0745 |

**Interseção 01 - Rótula**  
**Coordenadas Topográficas**

| Estaca      | Norte        | Este        |
|-------------|--------------|-------------|
| 0+0,000     | 105.420,1062 | 66.871,4402 |
| 1+0,000     | 105.420,7953 | 66.890,3569 |
| 2+0,000     | 105.438,2921 | 66.897,5803 |
| 2+5,984 PCC | 105.443,8838 | 66.895,5337 |
| 3+0,000     | 105.454,9766 | 66.887,0324 |
| 3+6,593 PI  | 105.386,1532 | 66.928,7279 |
| 4+0,000     | 105.466,1431 | 66.870,5827 |
| 4+1,461 PI  | 105.474,6392 | 66.877,8496 |
| 5+0,000     | 105.470,4716 | 66.851,1777 |
| 5+8,527 PCC | 105.470,0516 | 66.842,6705 |
| 6+0,000     | 105.465,0742 | 66.832,5604 |
| 7+0,000     | 105.446,5772 | 66.828,5390 |
| 7+14,510    | 105.436,4748 | 66.838,3728 |

**Interseção 02 - Ramo 01**  
**Coordenadas Topográficas**

| Estaca   | Norte        | Este        |
|----------|--------------|-------------|
| 0+0,000  | 105.099,8244 | 64.192,3304 |
| 1+0,000  | 105.098,5419 | 64.172,3716 |
| 2+0,000  | 105.097,2594 | 64.152,4127 |
| 3+0,000  | 105.095,9769 | 64.132,4539 |
| 4+0,000  | 105.094,6945 | 64.112,4950 |
| 5+0,000  | 105.093,4120 | 64.092,5362 |
| 6+0,000  | 105.092,1295 | 64.072,5774 |
| 6+19,145 | 105.090,9018 | 64.053,4714 |

**Interseção 02 - Ramo 02**  
**Coordenadas Topográficas**

| Estaca  | Norte        | Este        |
|---------|--------------|-------------|
| 0+0,000 | 105.093,4700 | 64.093,6850 |
| 1+0,000 | 105.102,2433 | 64.076,7982 |
| 2+0,000 | 105.121,2729 | 64.076,7089 |
| 2+5,875 | 105.125,7534 | 64.080,4709 |

**Interseção 02 - Ramo 03**  
**Coordenadas Topográficas**

| Estaca   | Norte        | Este        |
|----------|--------------|-------------|
| 0+0,000  | 105.125,7533 | 64.080,4707 |
| 1+0,000  | 105.112,6755 | 64.065,3388 |
| 2+0,000  | 105.099,5978 | 64.050,2070 |
| 3+0,000  | 105.086,5200 | 64.035,0752 |
| 4+0,000  | 105.073,4423 | 64.019,9433 |
| 5+0,000  | 105.060,3645 | 64.004,8115 |
| 6+0,000  | 105.047,2868 | 63.989,6797 |
| 7+0,000  | 105.034,2090 | 63.974,5478 |
| 8+0,000  | 105.021,1313 | 63.959,4160 |
| 9+0,000  | 105.008,0535 | 63.944,2842 |
| 10+0,000 | 104.994,9758 | 63.929,1523 |
| 11+0,000 | 104.981,8980 | 63.914,0205 |
| 12+0,000 | 104.968,8203 | 63.898,8886 |
| 12+1,777 | 104.967,6585 | 63.897,5444 |

**Interseção 02 - Rótula**  
**Coordenadas Topográficas**

| Estaca      | Norte        | Este        |
|-------------|--------------|-------------|
| 0+0,000     | 105.064,0043 | 64.059,7461 |
| 1+0,000     | 105.080,4211 | 64.067,9269 |
| 2+0,000     | 105.090,8463 | 64.052,8355 |
| 2+0,294 PCC | 105.090,8111 | 64.052,5436 |
| 2+14,196 PI | 105.089,0058 | 64.038,7594 |
| 3+0,000     | 105.084,5026 | 64.034,0102 |
| 3+7,408 PCC | 105.080,3218 | 64.027,9034 |
| 4+0,000     | 105.069,1505 | 64.023,0698 |
| 5+0,000     | 105.055,8006 | 64.035,6481 |
| 5+5,669 PI  | 105.104,5892 | 64.157,3108 |
| 5+6,931     | 105.056,8032 | 64.042,4348 |



## 8.0 - TERMO DE ENCERRAMENTO

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O presente **Volume 1A – Notas de Serviço e Cálculo de Volumes**, referente a Revisão, Adequação e Atualização de Projeto Executivo de Engenharia para Pavimentação da Rodovia **RO-010**, Trecho: Estaca 136+0,00 (Urupá) - Estaca 2284+0,00 Rua Amapá (Mirante da Serra), Segmento: Estaca 136+0,00 à Estaca 1200+0,00, Extensão: 21,28 km, Lote: 01, possui **174** (cento e setenta e quatro) folhas numericamente ordenadas.

DEVARLEY JOAO  
DOS SANTOS  
SOUZA:3523616  
7191

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