



GOVERNO DO ESTADO DE MATO GROSSO

**SECRETARIA DE ESTADO DE INFRAESTRUTURA E LOGÍSTICA
SUPERINTENDÊNCIA DE PROJETOS**

PROJETO EXECUTIVO DE ENGENHARIA RODOVIÁRIA PARA IMPLANTAÇÃO E PAVIMENTAÇÃO DE VIAS NO MUNICÍPIO DE PARANAÍTA

RODOVIA: MUNICIPAL - ESTRADA COPACABANA

TRECHO: ENTRº MT-206 (PARANAÍTA) - ACESSO AO ASSENTAMENTO SÃO PEDRO

SUBTRECHO: ENTRº. MT – 206 (PARANAÍTA) - TREVO DO BUGÃO

EXTENSÃO TOTAL: 14,05 KM

ANEXO 3C – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES

OUTUBRO – 2021



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ANEXO 3C – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES

| | |
|----------------|---|
| CONTRATANTE: | PREFEITURA MUNICIPAL DE PARANAÍTA |
| COORDENAÇÃO: | SECRETARIA DE GOVERNO |
| DIREÇÃO: | SECRETARIA DE TRANSPORTES E OBRAS |
| ELABORAÇÃO: | KALU SERVIÇOS DE ENGENHARIA LTDA – ME. |
| RESP. TÉCNICO: | ENG ^a . BÁRBARA WIARA TELES DOS REIS - CREA MG 191.336/D / RN 1414265999 |

OUTUBRO-2021

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1. APRESENTAÇÃO

A KALU SERVIÇOS DE ENGENHARIA LTDA ME, com sede na Rua João Pessoa, 04, Bairro Santo Antônio, Montes Claros – MG, CEP: 39402-266, inscrita no CNPJ sob o nº 24.031.830/0001-44, apresentam o **ANEXO 3C – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES** que é integrante do Projeto Executivo de Engenharia Rodoviária Para Implantação e Pavimentação do Trecho: Entrº MT-206 (Paranaíta) - Acesso Ao Assentamento São Pedro, abaixo listado:

TRECHO: ENTRº MT-206 (PARANAÍTA) - ACESSO AO ASSENTAMENTO SÃO PEDRO;

SUBTRECHO: ENTRº. MT – 206 (PARANAÍTA) - TREVO DO BUGÃO;

EXTENSÃO TOTAL: 14,05 KM

O Projeto em sua forma de apresentação consta de 7 (sete) volumes assim identificados:

VOLUME 01 - RELATÓRIO DO PROJETO E DOCUMENTOS PARA CONCORRÊNCIA.

Objetivo:

Fornecer os estudos realizados e os projetos desenvolvidos, bem como os elementos necessários a elaboração da Proposta para a Concorrência de Construção.

VOLUME 02 - PROJETO DE EXECUÇÃO.

Objetivo:

Apresentar em formato A-3 as plantas, gráficos e desenhos necessários à execução da obra projetada.

VOLUME 2.1 – SEÇÕES DE TERRAPLENAGEM

Objetivo:

Este volume contém as seções de terraplenagem necessários à execução da obra projetada.

É apresentado em formato A3

VOLUME 03 – MEMÓRIA JUSTIFICATIVA

Objetivo:

Fornecer o detalhamento e as justificativas técnicas referentes ao projeto elaborado.

VOLUME 3A – ESTUDOS GEOTÉCNICOS

Objetivo:

Apresentar em formato A-4 os levantamentos realizados no campo, os cálculos efetuados no escritório e os ensaios de laboratório.

VOLUME 3C – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES

Objetivo:

Apresentar em formato A-4 as notas de serviço para execução do terrapleno e os volumes respectivos, bem como elementos adicionais à relocação do trecho, constando os seguintes tópicos:

VOLUME 4 – ORÇAMENTO

Objetivo:

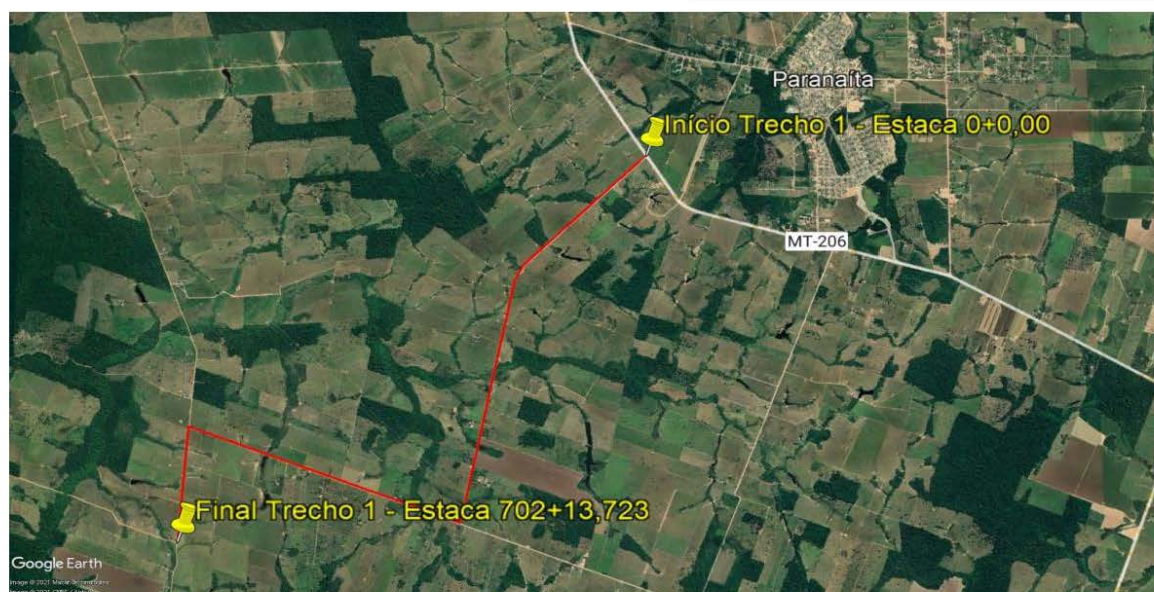
Apresentar o custo de todas as obras necessárias à execução do projeto, indicando e justificando os métodos adotados na sua obtenção. Será apresentado em formato A4.

O presente volume corresponde ao ANEXO 3C – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES.

2. MAPA DE SITUAÇÃO



| | |
|--|---------------|
| Início Trecho 1: Estaca 0+0,00 | |
| Latitude: | 9°40'45.34"S |
| Longitude: | 56°29'59.06"O |
| Final Trecho 1: Estaca 702+13,723 | |
| Latitude: | 9°44'24.62"S |
| Longitude: | 56°34'2.09"O |



3. INFORMATIVO DE PROJETO

O projeto geométrico foi desenvolvido a partir de dados fornecidos pelo estudo topográfico e de tráfego, o mesmo tem como objetivo a definição geométrica das pistas de rolamento de implantação e pavimentação, assim como, das interseções e acessos, detalhando o plani-altimétrico do terreno e determinando a geometria da seção transversal.

O projeto de terraplenagem delimita os limites do terreno, identificando suas dimensões reais e a confirmação do relevo terrestre para implantação da obra.

O projeto de pavimentação da pista de rolamento tem como finalidade dimensionar a estrutura destinada técnica e economicamente a resistir esforços procedentes do tráfego de veículos e clima, garantindo conforto e segurança aos usuários.

O projeto de drenagem instrui a utilização adequada de seus dispositivos, com objetivo de retirar os excessos de água que se precipitam sobre o corpo estradal, assegurando estabilidade na construção.

O projeto de sinalização constitui-se em um sistema de dispositivos fixos de controle de tráfego, com objetivo de ordenar, advertir, orientar e educar seus usuários a fim de garantir uma adequada utilização e segurança na via.

4. RELAÇÃO DE MARCOS

RODOVIA - PARANAÍTA (MT)

PLANILHA MARCOS GEODÉSICOS

| MARCO | Coordenadas UTM - SIRGAS 2000 (MC -57°) | | Coordenadas geográficas - SIRGAS 2000 | | Altitude Elipsoidal (m) | Ondulação Geoidal (m) | Altitude Ortométrica (m) |
|-----------|---|---------------|---------------------------------------|------------------|-------------------------|-----------------------|--------------------------|
| | E | N | LAT | LONG | | | |
| M1 | 554.866,343 | 8.930.008,948 | -9°40'45,33941" | -56°29'59,50634" | 293,411 | -7,18 | 300,591 |
| M2 | 554.658,564 | 8.929.838,593 | -9°40'50,89607" | -56°30'06,31646" | 296,123 | -7,17 | 303,293 |
| M3 | 553.884,888 | 8.929.035,559 | -9°41'17,07933" | -56°30'31,66690" | 266,256 | -7,12 | 273,376 |
| M4 | 552.889,413 | 8.928.078,840 | -9°41'48,27633" | -56°31'04,28998" | 272,854 | -7,06 | 279,914 |
| M5 | 552.590,502 | 8.926.946,114 | -9°42'25,17151" | -56°31'14,04689" | 254,230 | -7,02 | 261,250 |
| M6 | 552.528,803 | 8.926.661,857 | -9°42'34,42973" | -56°31'16,05856" | 252,652 | -7,00 | 259,652 |
| M7 | 552.230,692 | 8.925.302,764 | -9°43'18,69527" | -56°31'25,77949" | 248,868 | -6,94 | 255,808 |
| M8 | 552.032,083 | 8.924.156,178 | -9°43'56,03703" | -56°31'32,24505" | 248,936 | -6,88 | 255,816 |
| M9 | 551.121,883 | 8.923.915,303 | -9°44'03,92101" | -56°32'02,10737" | 236,947 | -6,85 | 243,797 |
| M10 | 550.039,413 | 8.924.335,993 | -9°43'50,27131" | -56°32'37,65337" | 256,100 | -6,85 | 262,950 |
| M11 | 549.782,799 | 8.924.431,606 | -9°43'47,16937" | -56°32'46,07971" | 259,696 | -6,85 | 266,546 |
| M12 | 548.588,228 | 8.924.895,009 | -9°43'32,13243" | -56°33'25,30575" | 249,656 | -6,84 | 256,496 |
| M13 | 547.601,989 | 8.925.266,257 | -9°43'20,08608" | -56°33'57,68965" | 243,844 | -6,82 | 250,664 |
| M14 | 547.529,824 | 8.924.504,311 | -9°43'44,89809" | -56°34'00,02613" | 241,536 | -6,79 | 248,326 |
| M15-M4561 | 547.442,774 | 8.923.301,519 | -9°44'24,06467" | -56°34'02,83274" | 235,520 | -6,72 | 242,240 |
| M16 | 546.988,914 | 8.923.454,694 | -9°44'19,09607" | -56°34'17,73539" | 234,383 | -6,72 | 241,103 |
| M17 | 546.026,489 | 8.923.984,070 | -9°44'01,89876" | -56°34'49,34495" | 230,085 | -6,71 | 236,795 |
| M18 | 544.896,369 | 8.924.396,198 | -9°43'48,52481" | -56°35'26,45276" | 239,048 | -6,69 | 245,738 |
| M19 | 544.174,978 | 8.924.609,681 | -9°43'41,60191" | -56°35'50,13750" | 249,940 | -6,67 | 256,610 |
| M20 | 543.230,668 | 8.924.904,134 | -9°43'32,05060" | -56°36'21,14133" | 242,002 | -6,65 | 248,652 |
| M21 | 542.935,002 | 8.925.019,141 | -9°43'28,31710" | -56°36'30,84948" | 241,218 | -6,64 | 247,858 |
| M22 | 541.706,103 | 8.925.605,524 | -9°43'09,26978" | -56°37'11,20358" | 220,584 | -6,61 | 227,194 |
| M23 | 540.455,416 | 8.925.964,374 | -9°42'57,63047" | -56°37'52,26340" | 217,102 | -6,57 | 223,672 |
| M24 | 540.190,711 | 8.925.691,658 | -9°43'06,51952" | -56°38'00,94114" | 218,737 | -6,54 | 225,277 |
| M25 | 539.972,799 | 8.925.663,748 | -9°43'07,43591" | -56°38'08,09192" | 219,676 | -6,53 | 226,206 |

5. NOTAS DE LOCAÇÃO

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|----------|-----------------|----------------|
| 0+0.000 | 8930042,9590522 | 554878,6104668 |
| 1+0.000 | 8930028,8654244 | 554864,4199892 |
| 2+0.000 | 8930014,7717966 | 554850,2295115 |
| 3+0.000 | 8930000,6781688 | 554836,0390339 |
| 4+0.000 | 8929986,5845410 | 554821,8485563 |
| 5+0.000 | 8929972,4909132 | 554807,6580786 |
| 6+0.000 | 8929958,3972854 | 554793,4676010 |
| 7+0.000 | 8929944,3036576 | 554779,2771234 |
| 8+0.000 | 8929930,2100298 | 554765,0866457 |
| 9+0.000 | 8929916,1164020 | 554750,8961681 |
| 10+0.000 | 8929902,0227742 | 554736,7056904 |
| 11+0.000 | 8929887,9291464 | 554722,5152128 |
| 12+0.000 | 8929873,8355186 | 554708,3247352 |
| 13+0.000 | 8929859,7418909 | 554694,1342575 |
| 14+0.000 | 8929845,6482631 | 554679,9437799 |
| 15+0.000 | 8929831,5546353 | 554665,7533022 |
| 16+0.000 | 8929817,4610075 | 554651,5628246 |
| 17+0.000 | 8929803,3673797 | 554637,3723470 |
| 18+0.000 | 8929789,2737519 | 554623,1818693 |
| 19+0.000 | 8929775,1801241 | 554608,9913917 |
| 20+0.000 | 8929761,0864963 | 554594,8009140 |
| 21+0.000 | 8929746,9928685 | 554580,6104364 |
| 22+0.000 | 8929732,8992407 | 554566,4199588 |
| 23+0.000 | 8929718,8056129 | 554552,2294811 |
| 24+0.000 | 8929704,7119851 | 554538,0390035 |
| 25+0.000 | 8929690,6183573 | 554523,8485259 |
| 26+0.000 | 8929676,5247295 | 554509,6580482 |
| 27+0.000 | 8929662,4311017 | 554495,4675706 |
| 28+0.000 | 8929648,3374740 | 554481,2770929 |
| 29+0.000 | 8929634,2438462 | 554467,0866153 |
| 30+0.000 | 8929620,1502184 | 554452,8961377 |
| 31+0.000 | 8929606,0565906 | 554438,7056600 |
| 32+0.000 | 8929591,9629628 | 554424,5151824 |
| 33+0.000 | 8929577,8693350 | 554410,3247047 |
| 34+0.000 | 8929563,7757072 | 554396,1342271 |
| 35+0.000 | 8929549,6820794 | 554381,9437495 |
| 36+0.000 | 8929535,5884516 | 554367,7532718 |
| 37+0.000 | 8929521,4948238 | 554353,5627942 |
| 38+0.000 | 8929507,4011960 | 554339,3723165 |
| 39+0.000 | 8929493,3075682 | 554325,1818389 |
| 40+0.000 | 8929479,2139404 | 554310,9913613 |
| 41+0.000 | 8929465,1203126 | 554296,8008836 |
| 42+0.000 | 8929451,0266848 | 554282,6104060 |
| 43+0.000 | 8929436,9330571 | 554268,4199283 |
| 44+0.000 | 8929422,8394293 | 554254,2294507 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|----------|-----------------|----------------|
| 45+0.000 | 8929408,7458015 | 554240,0389731 |
| 46+0.000 | 8929394,6521737 | 554225,8484954 |
| 47+0.000 | 8929380,5585459 | 554211,6580178 |
| 48+0.000 | 8929366,4649181 | 554197,4675402 |
| 49+0.000 | 8929352,3712903 | 554183,2770625 |
| 50+0.000 | 8929338,2776625 | 554169,0865849 |
| 51+0.000 | 8929324,1840347 | 554154,8961072 |
| 52+0.000 | 8929310,0904069 | 554140,7056296 |
| 53+0.000 | 8929295,9967791 | 554126,5151520 |
| 54+0.000 | 8929281,9031513 | 554112,3246743 |
| 55+0.000 | 8929267,8095235 | 554098,1341967 |
| 56+0.000 | 8929253,7158957 | 554083,9437190 |
| 57+0.000 | 8929239,6222679 | 554069,7532414 |
| 58+0.000 | 8929225,5286402 | 554055,5627638 |
| 59+0.000 | 8929211,4350124 | 554041,3722861 |
| 60+0.000 | 8929197,3413846 | 554027,1818085 |
| 61+0.000 | 8929183,2477568 | 554012,9913308 |
| 62+0.000 | 8929169,1541290 | 553998,8008532 |
| 63+0.000 | 8929155,0605012 | 553984,6103756 |
| 64+0.000 | 8929140,9668734 | 553970,4198979 |
| 65+0.000 | 8929126,8732456 | 553956,2294203 |
| 66+0.000 | 8929112,7796178 | 553942,0389427 |
| 67+0.000 | 8929098,6859900 | 553927,8484650 |
| 68+0.000 | 8929084,5923622 | 553913,6579874 |
| 69+0.000 | 8929070,4987344 | 553899,4675097 |
| 70+0.000 | 8929056,4051066 | 553885,2770321 |
| 71+0.000 | 8929042,3114788 | 553871,0865545 |
| 72+0.000 | 8929028,2178510 | 553856,8960768 |
| 73+0.000 | 8929014,1242233 | 553842,7055992 |
| 74+0.000 | 8929000,0305955 | 553828,5151215 |
| 75+0.000 | 8928985,9369677 | 553814,3246439 |
| 76+0.000 | 8928971,8433399 | 553800,1341663 |
| 77+0.000 | 8928957,7497121 | 553785,9436886 |
| 78+0.000 | 8928943,6560843 | 553771,7532110 |
| 79+0.000 | 8928929,5624565 | 553757,5627333 |
| 80+0.000 | 8928915,4688287 | 553743,3722557 |
| 81+0.000 | 8928901,3752009 | 553729,1817781 |
| 82+0.000 | 8928887,2815731 | 553714,9913004 |
| 83+0.000 | 8928873,1879453 | 553700,8008228 |
| 84+0.000 | 8928859,0943175 | 553686,6103451 |
| 85+0.000 | 8928845,0006897 | 553672,4198675 |
| 86+0.000 | 8928830,9070619 | 553658,2293899 |
| 87+0.000 | 8928816,8134341 | 553644,0389122 |
| 88+0.000 | 8928802,7198064 | 553629,8484346 |
| 89+0.000 | 8928788,6261786 | 553615,6579570 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|---------------|-----------------|----------------|
| 90+0.000 | 8928774,5325508 | 553601,4674793 |
| 91+0.000 | 8928760,4389230 | 553587,2770017 |
| 92+0.000 | 8928746,3452952 | 553573,0865240 |
| 93+0.000 | 8928732,2516674 | 553558,8960464 |
| 94+0.000 | 8928718,1580396 | 553544,7055688 |
| 95+0.000 | 8928704,0644118 | 553530,5150911 |
| 96+0.000 | 8928689,9707840 | 553516,3246135 |
| 97+0.000 | 8928675,8771562 | 553502,1341358 |
| 98+0.000 | 8928661,7835284 | 553487,9436582 |
| 99+0.000 | 8928647,6899006 | 553473,7531806 |
| 100+0.000 | 8928633,5962728 | 553459,5627029 |
| 101+0.000 | 8928619,5026450 | 553445,3722253 |
| 102+0.000 | 8928605,4090172 | 553431,1817476 |
| 103+0.000 | 8928591,3153895 | 553416,9912700 |
| 104+0.000 | 8928577,2217617 | 553402,8007924 |
| 105+0.000 | 8928563,1281339 | 553388,6103147 |
| 106+0.000 | 8928549,0345061 | 553374,4198371 |
| 107+0.000 | 8928534,9408783 | 553360,2293595 |
| 108+0.000 | 8928520,8472505 | 553346,0388818 |
| 109+0.000 | 8928506,7536227 | 553331,8484042 |
| 110+0.000 | 8928492,6599949 | 553317,6579265 |
| 111+0.000 | 8928478,5663671 | 553303,4674489 |
| 112+0.000 | 8928464,4727393 | 553289,2769713 |
| 113+0.000 | 8928450,3791115 | 553275,0864936 |
| 114+0.000 | 8928436,2854837 | 553260,8960160 |
| 115+0.000 | 8928422,1918559 | 553246,7055383 |
| 116+0.000 | 8928408,0982281 | 553232,5150607 |
| 117+0.000 | 8928394,0046003 | 553218,3245831 |
| 118+0.000 | 8928379,9109726 | 553204,1341054 |
| 119+0.000 | 8928365,8173448 | 553189,9436278 |
| 120+0.000 | 8928351,7237170 | 553175,7531501 |
| 121+0.000 | 8928337,6300892 | 553161,5626725 |
| 122+0.000 | 8928323,5364614 | 553147,3721949 |
| 123+0.000 | 8928309,4428336 | 553133,1817172 |
| 124+0.000 | 8928295,3492058 | 553118,9912396 |
| 125+0.000 | 8928281,2555780 | 553104,8007619 |
| 126+0.000 | 8928267,1619502 | 553090,6102843 |
| 126+15.821 TE | 8928256,0129947 | 553079,3847144 |
| 127+0.000 | 8928253,0679390 | 553076,4201876 |
| 128+0.000 | 8928238,9006925 | 553062,3034012 |
| 129+0.000 | 8928224,4338014 | 553048,4947764 |
| 129+5.821 EC | 8928220,1329767 | 553044,5718071 |
| 130+0.000 | 8928209,4505471 | 553035,2494998 |
| 131+0.000 | 8928193,8945430 | 553022,6818869 |
| 132+0.000 | 8928177,7955235 | 553010,8178347 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|---------------|-----------------|----------------|
| 132+13.449 CE | 8928166,6805617 | 553003,2474637 |
| 133+0.000 | 8928161,1864122 | 552999,6790237 |
| 134+0.000 | 8928144,1683197 | 552989,1740303 |
| 135+0.000 | 8928126,9344495 | 552979,0256917 |
| 135+3.449 ET | 8928123,9546034 | 552977,2896769 |
| 136+0.000 | 8928109,6525149 | 552968,9591761 |
| 137+0.000 | 8928092,3704273 | 552958,8929230 |
| 137+9.079 TE | 8928084,5249506 | 552954,3231884 |
| 138+0.000 | 8928075,0919853 | 552948,8204198 |
| 139+0.000 | 8928057,8895925 | 552938,6188955 |
| 140+0.000 | 8928040,9015206 | 552928,0651991 |
| 140+9.079 EC | 8928033,3011695 | 552923,0986403 |
| 141+0.000 | 8928024,2779501 | 552916,9473714 |
| 142+0.000 | 8928008,1098749 | 552905,1770692 |
| 143+0.000 | 8927992,4254189 | 552892,7696315 |
| 143+12.488 CE | 8927982,8886569 | 552884,7082372 |
| 144+0.000 | 8927977,2481118 | 552879,7466700 |
| 145+0.000 | 8927962,5279148 | 552866,2082447 |
| 146+0.000 | 8927948,1040221 | 552852,3538689 |
| 146+12.488 ET | 8927939,1683549 | 552843,6304652 |
| 147+0.000 | 8927933,7974818 | 552838,3780797 |
| 147+18.822 TE | 8927920,3406779 | 552825,2181485 |
| 148+0.000 | 8927919,4984859 | 552824,3945638 |
| 149+0.000 | 8927905,1197127 | 552810,4934248 |
| 150+0.000 | 8927890,3222133 | 552797,0410833 |
| 150+18.822 EC | 8927875,6949324 | 552785,2016931 |
| 151+0.000 | 8927874,7509801 | 552784,4970443 |
| 152+0.000 | 8927858,1955865 | 552773,2869167 |
| 153+0.000 | 8927840,7291791 | 552763,5569307 |
| 154+0.000 | 8927822,4837457 | 552755,3806126 |
| 154+11.294 CE | 8927811,8883973 | 552751,4737305 |
| 155+0.000 | 8927803,5995252 | 552748,8121370 |
| 156+0.000 | 8927784,2811667 | 552743,6467538 |
| 157+0.000 | 8927764,7463461 | 552739,3620633 |
| 157+11.294 ET | 8927753,6772429 | 552737,1203058 |
| 158+0.000 | 8927745,1416628 | 552735,4053309 |
| 159+0.000 | 8927725,5335288 | 552731,4656507 |
| 160+0.000 | 8927705,9253947 | 552727,5259705 |
| 161+0.000 | 8927686,3172607 | 552723,5862903 |
| 162+0.000 | 8927666,7091267 | 552719,6466101 |
| 163+0.000 | 8927647,1009927 | 552715,7069299 |
| 164+0.000 | 8927627,4928586 | 552711,7672497 |
| 165+0.000 | 8927607,8847246 | 552707,8275695 |
| 166+0.000 | 8927588,2765906 | 552703,8878893 |
| 167+0.000 | 8927568,6684566 | 552699,9482090 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|-----------|-----------------|----------------|
| 168+0.000 | 8927549,0603225 | 552696,0085288 |
| 169+0.000 | 8927529,4521885 | 552692,0688486 |
| 170+0.000 | 8927509,8440545 | 552688,1291684 |
| 171+0.000 | 8927490,2359205 | 552684,1894882 |
| 172+0.000 | 8927470,6277865 | 552680,2498080 |
| 173+0.000 | 8927451,0196524 | 552676,3101278 |
| 174+0.000 | 8927431,4115184 | 552672,3704476 |
| 175+0.000 | 8927411,8033844 | 552668,4307674 |
| 176+0.000 | 8927392,1952504 | 552664,4910872 |
| 177+0.000 | 8927372,5871163 | 552660,5514070 |
| 178+0.000 | 8927352,9789823 | 552656,6117267 |
| 179+0.000 | 8927333,3708483 | 552652,6720465 |
| 180+0.000 | 8927313,7627143 | 552648,7323663 |
| 181+0.000 | 8927294,1545803 | 552644,7926861 |
| 182+0.000 | 8927274,5464462 | 552640,8530059 |
| 183+0.000 | 8927254,9383122 | 552636,9133257 |
| 184+0.000 | 8927235,3301782 | 552632,9736455 |
| 185+0.000 | 8927215,7220442 | 552629,0339653 |
| 186+0.000 | 8927196,1139101 | 552625,0942851 |
| 187+0.000 | 8927176,5057761 | 552621,1546049 |
| 188+0.000 | 8927156,8976421 | 552617,2149247 |
| 189+0.000 | 8927137,2895081 | 552613,2752445 |
| 190+0.000 | 8927117,6813740 | 552609,3355642 |
| 191+0.000 | 8927098,0732400 | 552605,3958840 |
| 192+0.000 | 8927078,4651060 | 552601,4562038 |
| 193+0.000 | 8927058,8569720 | 552597,5165236 |
| 194+0.000 | 8927039,2488380 | 552593,5768434 |
| 195+0.000 | 8927019,6407039 | 552589,6371632 |
| 196+0.000 | 8927000,0325699 | 552585,6974830 |
| 197+0.000 | 8926980,4244359 | 552581,7578028 |
| 198+0.000 | 8926960,8163019 | 552577,8181226 |
| 199+0.000 | 8926941,2081678 | 552573,8784424 |
| 200+0.000 | 8926921,6000338 | 552569,9387622 |
| 201+0.000 | 8926901,9918998 | 552565,9990819 |
| 202+0.000 | 8926882,3837658 | 552562,0594017 |
| 203+0.000 | 8926862,7756318 | 552558,1197215 |
| 204+0.000 | 8926843,1674977 | 552554,1800413 |
| 205+0.000 | 8926823,5593637 | 552550,2403611 |
| 206+0.000 | 8926803,9512297 | 552546,3006809 |
| 207+0.000 | 8926784,3430957 | 552542,3610007 |
| 208+0.000 | 8926764,7349616 | 552538,4213205 |
| 209+0.000 | 8926745,1268276 | 552534,4816403 |
| 210+0.000 | 8926725,5186936 | 552530,5419601 |
| 211+0.000 | 8926705,9105596 | 552526,6022799 |
| 212+0.000 | 8926686,3024255 | 552522,6625997 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|---------------|-----------------|----------------|
| 213+0.000 | 8926666,6942915 | 552518,7229194 |
| 214+0.000 | 8926647,0861575 | 552514,7832392 |
| 215+0.000 | 8926627,4780235 | 552510,8435590 |
| 216+0.000 | 8926607,8698895 | 552506,9038788 |
| 217+0.000 | 8926588,2617554 | 552502,9641986 |
| 218+0.000 | 8926568,6536214 | 552499,0245184 |
| 219+0.000 | 8926549,0454874 | 552495,0848382 |
| 220+0.000 | 8926529,4373534 | 552491,1451580 |
| 221+0.000 | 8926509,8292193 | 552487,2054778 |
| 222+0.000 | 8926490,2210853 | 552483,2657976 |
| 223+0.000 | 8926470,6129513 | 552479,3261174 |
| 224+0.000 | 8926451,0048173 | 552475,3864371 |
| 225+0.000 | 8926431,3966833 | 552471,4467569 |
| 226+0.000 | 8926411,7885492 | 552467,5070767 |
| 227+0.000 | 8926392,1804152 | 552463,5673965 |
| 228+0.000 | 8926372,5722812 | 552459,6277163 |
| 229+0.000 | 8926352,9641472 | 552455,6880361 |
| 230+0.000 | 8926333,3560131 | 552451,7483559 |
| 231+0.000 | 8926313,7478791 | 552447,8086757 |
| 232+0.000 | 8926294,1397451 | 552443,8689955 |
| 233+0.000 | 8926274,5316111 | 552439,9293153 |
| 234+0.000 | 8926254,9234770 | 552435,9896351 |
| 235+0.000 | 8926235,3153430 | 552432,0499549 |
| 236+0.000 | 8926215,7072090 | 552428,1102746 |
| 237+0.000 | 8926196,0990750 | 552424,1705944 |
| 238+0.000 | 8926176,4909410 | 552420,2309142 |
| 238+17.294 TE | 8926159,5358363 | 552416,8242826 |
| 239+0.000 | 8926156,8827708 | 552416,2914139 |
| 240+0.000 | 8926137,2537781 | 552412,4579132 |
| 240+17.294 EC | 8926120,2105992 | 552409,5273782 |
| 241+0.000 | 8926117,5352758 | 552409,1207724 |
| 242+0.000 | 8926097,6944567 | 552406,6155663 |
| 242+8.053 CE | 8926089,6776607 | 552405,8562753 |
| 243+0.000 | 8926077,7629777 | 552404,9786035 |
| 244+0.000 | 8926057,7893418 | 552403,9587110 |
| 244+8.053 ET | 8926049,7435427 | 552403,6234958 |
| 245+0.000 | 8926037,8063823 | 552403,1333332 |
| 246+0.000 | 8926017,8232218 | 552402,3127864 |
| 246+19.261 TE | 8925998,5780172 | 552401,5225416 |
| 247+0.000 | 8925997,8400615 | 552401,4922341 |
| 248+0.000 | 8925977,8626486 | 552400,5479465 |
| 248+19.261 EC | 8925958,6659125 | 552398,9943187 |
| 249+0.000 | 8925957,9317130 | 552398,9140197 |
| 250+0.000 | 8925938,1409501 | 552396,0543737 |
| 250+0.665 CE | 8925937,4864548 | 552395,9366662 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|---------------|-----------------|----------------|
| 251+0.000 | 8925918,5624790 | 552391,9805799 |
| 252+0.000 | 8925899,1340394 | 552387,2345724 |
| 252+0.665 ET | 8925898,4890171 | 552387,0728146 |
| 253+0.000 | 8925879,7347773 | 552382,3695309 |
| 254+0.000 | 8925860,3355161 | 552377,5044855 |
| 255+0.000 | 8925840,9362550 | 552372,6394400 |
| 256+0.000 | 8925821,5369939 | 552367,7743946 |
| 257+0.000 | 8925802,1377327 | 552362,9093491 |
| 258+0.000 | 8925782,7384716 | 552358,0443037 |
| 259+0.000 | 8925763,3392104 | 552353,1792582 |
| 260+0.000 | 8925743,9399493 | 552348,3142128 |
| 261+0.000 | 8925724,5406881 | 552343,4491674 |
| 262+0.000 | 8925705,1414270 | 552338,5841219 |
| 263+0.000 | 8925685,7421659 | 552333,7190765 |
| 264+0.000 | 8925666,3429047 | 552328,8540310 |
| 265+0.000 | 8925646,9436436 | 552323,9889856 |
| 266+0.000 | 8925627,5443824 | 552319,1239401 |
| 267+0.000 | 8925608,1451213 | 552314,2588947 |
| 268+0.000 | 8925588,7458602 | 552309,3938492 |
| 269+0.000 | 8925569,3465990 | 552304,5288038 |
| 270+0.000 | 8925549,9473379 | 552299,6637583 |
| 271+0.000 | 8925530,5480767 | 552294,7987129 |
| 272+0.000 | 8925511,1488156 | 552289,9336675 |
| 273+0.000 | 8925491,7495545 | 552285,0686220 |
| 274+0.000 | 8925472,3502933 | 552280,2035766 |
| 275+0.000 | 8925452,9510322 | 552275,3385311 |
| 276+0.000 | 8925433,5517710 | 552270,4734857 |
| 277+0.000 | 8925414,1525099 | 552265,6084402 |
| 277+16.927 PC | 8925397,7334647 | 552261,4907885 |
| 278+0.000 | 8925394,7522952 | 552260,7472109 |
| 279+0.000 | 8925375,3014127 | 552256,0938346 |
| 280+0.000 | 8925355,7756790 | 552251,7652709 |
| 281+0.000 | 8925336,1805177 | 552247,7627223 |
| 281+8.587 PT | 8925327,7471191 | 552246,1444940 |
| 282+0.000 | 8925316,5312391 | 552244,0339341 |
| 283+0.000 | 8925296,8762064 | 552240,3353277 |
| 284+0.000 | 8925277,2211736 | 552236,6367214 |
| 285+0.000 | 8925257,5661409 | 552232,9381150 |
| 286+0.000 | 8925237,9111082 | 552229,2395087 |
| 287+0.000 | 8925218,2560755 | 552225,5409023 |
| 288+0.000 | 8925198,6010428 | 552221,8422959 |
| 289+0.000 | 8925178,9460101 | 552218,1436896 |
| 290+0.000 | 8925159,2909773 | 552214,4450832 |
| 291+0.000 | 8925139,6359446 | 552210,7464769 |
| 292+0.000 | 8925119,9809119 | 552207,0478705 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|---------------|-----------------|----------------|
| 293+0.000 | 8925100,3258792 | 552203,3492642 |
| 294+0.000 | 8925080,6708465 | 552199,6506578 |
| 295+0.000 | 8925061,0158138 | 552195,9520515 |
| 296+0.000 | 8925041,3607811 | 552192,2534451 |
| 297+0.000 | 8925021,7057483 | 552188,5548388 |
| 298+0.000 | 8925002,0507156 | 552184,8562324 |
| 299+0.000 | 8924982,3956829 | 552181,1576261 |
| 300+0.000 | 8924962,7406502 | 552177,4590197 |
| 301+0.000 | 8924943,0856175 | 552173,7604134 |
| 302+0.000 | 8924923,4305848 | 552170,0618070 |
| 303+0.000 | 8924903,7755520 | 552166,3632007 |
| 304+0.000 | 8924884,1205193 | 552162,6645943 |
| 305+0.000 | 8924864,4654866 | 552158,9659880 |
| 306+0.000 | 8924844,8104539 | 552155,2673816 |
| 307+0.000 | 8924825,1554212 | 552151,5687753 |
| 308+0.000 | 8924805,5003885 | 552147,8701689 |
| 309+0.000 | 8924785,8453557 | 552144,1715626 |
| 310+0.000 | 8924766,1903230 | 552140,4729562 |
| 311+0.000 | 8924746,5352903 | 552136,7743499 |
| 312+0.000 | 8924726,8802576 | 552133,0757435 |
| 312+2.589 PC | 8924724,3362260 | 552132,5970177 |
| 313+0.000 | 8924707,2472986 | 552129,2626486 |
| 314+0.000 | 8924687,6748097 | 552125,1504969 |
| 314+7.016 PT | 8924680,8239378 | 552123,6366448 |
| 315+0.000 | 8924668,1535271 | 552120,8009543 |
| 316+0.000 | 8924648,6363463 | 552116,4329281 |
| 317+0.000 | 8924629,1191655 | 552112,0649019 |
| 318+0.000 | 8924609,6019846 | 552107,6968758 |
| 319+0.000 | 8924590,0848038 | 552103,3288496 |
| 320+0.000 | 8924570,5676230 | 552098,9608234 |
| 321+0.000 | 8924551,0504422 | 552094,5927973 |
| 321+6.535 PC | 8924544,6729616 | 552093,1654906 |
| 322+0.000 | 8924531,5202392 | 552090,2837844 |
| 322+14.224 PT | 8924517,5987481 | 552087,3680319 |
| 323+0.000 | 8924511,9394788 | 552086,2107213 |
| 324+0.000 | 8924492,3449985 | 552082,2036847 |
| 325+0.000 | 8924472,7505182 | 552078,1966480 |
| 326+0.000 | 8924453,1560380 | 552074,1896114 |
| 327+0.000 | 8924433,5615577 | 552070,1825747 |
| 328+0.000 | 8924413,9670774 | 552066,1755380 |
| 329+0.000 | 8924394,3725971 | 552062,1685014 |
| 330+0.000 | 8924374,7781169 | 552058,1614647 |
| 331+0.000 | 8924355,1836366 | 552054,1544281 |
| 332+0.000 | 8924335,5891563 | 552050,1473914 |
| 333+0.000 | 8924315,9946760 | 552046,1403548 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|--------------|-----------------|----------------|
| 334+0.000 | 8924296,4001958 | 552042,1333181 |
| 335+0.000 | 8924276,8057155 | 552038,1262815 |
| 336+0.000 | 8924257,2112352 | 552034,1192448 |
| 337+0.000 | 8924237,6167549 | 552030,1122081 |
| 338+0.000 | 8924218,0222747 | 552026,1051715 |
| 339+0.000 | 8924198,4277944 | 552022,0981348 |
| 340+0.000 | 8924178,8333141 | 552018,0910982 |
| 341+0.000 | 8924159,2388338 | 552014,0840615 |
| 342+0.000 | 8924139,6443536 | 552010,0770249 |
| 343+0.000 | 8924120,0498733 | 552006,0699882 |
| 344+0.000 | 8924100,4553930 | 552002,0629515 |
| 345+0.000 | 8924080,8609127 | 551998,0559149 |
| 346+0.000 | 8924061,2664325 | 551994,0488782 |
| 347+0.000 | 8924041,6719522 | 551990,0418416 |
| 348+0.000 | 8924022,0774719 | 551986,0348049 |
| 349+0.000 | 8924002,4829916 | 551982,0277683 |
| 350+0.000 | 8923982,8885114 | 551978,0207316 |
| 351+0.000 | 8923963,2940311 | 551974,0136950 |
| 352+0.000 | 8923943,6995508 | 551970,0066583 |
| 353+0.000 | 8923924,1050705 | 551965,9996216 |
| 354+0.000 | 8923904,5105903 | 551961,9925850 |
| 355+0.000 | 8923884,9161100 | 551957,9855483 |
| 356+0.000 | 8923865,3216297 | 551953,9785117 |
| 357+0.000 | 8923845,7271494 | 551949,9714750 |
| 358+0.000 | 8923826,1326692 | 551945,9644384 |
| 359+0.000 | 8923806,5381889 | 551941,9574017 |
| 360+0.000 | 8923786,9437086 | 551937,9503650 |
| 361+0.000 | 8923767,3492283 | 551933,9433284 |
| 362+0.000 | 8923747,7547481 | 551929,9362917 |
| 363+0.000 | 8923728,1602678 | 551925,9292551 |
| 364+0.000 | 8923708,5657875 | 551921,9222184 |
| 365+0.000 | 8923688,9713072 | 551917,9151818 |
| 366+0.000 | 8923669,3768270 | 551913,9081451 |
| 367+0.000 | 8923649,7823467 | 551909,9011085 |
| 368+0.000 | 8923630,1878664 | 551905,8940718 |
| 369+0.000 | 8923610,5933862 | 551901,8870351 |
| 369+6.085 PI | 8923604,6314290 | 551900,6678254 |
| 370+0.000 | 8923609,3935594 | 551887,5934314 |
| 371+0.000 | 8923616,2383283 | 551868,8011687 |
| 372+0.000 | 8923623,0830973 | 551850,0089060 |
| 373+0.000 | 8923629,9278662 | 551831,2166432 |
| 374+0.000 | 8923636,7726351 | 551812,4243805 |
| 375+0.000 | 8923643,6174041 | 551793,6321178 |
| 376+0.000 | 8923650,4621730 | 551774,8398551 |
| 377+0.000 | 8923657,3069419 | 551756,0475923 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|---------------|-----------------|----------------|
| 378+0.000 | 8923664,1517109 | 551737,2553296 |
| 379+0.000 | 8923670,9964798 | 551718,4630669 |
| 380+0.000 | 8923677,8412487 | 551699,6708042 |
| 381+0.000 | 8923684,6860177 | 551680,8785414 |
| 382+0.000 | 8923691,5307866 | 551662,0862787 |
| 383+0.000 | 8923698,3755555 | 551643,2940160 |
| 384+0.000 | 8923705,2203245 | 551624,5017533 |
| 385+0.000 | 8923712,0650934 | 551605,7094906 |
| 386+0.000 | 8923718,9098623 | 551586,9172278 |
| 387+0.000 | 8923725,7546313 | 551568,1249651 |
| 388+0.000 | 8923732,5994002 | 551549,3327024 |
| 389+0.000 | 8923739,4441692 | 551530,5404397 |
| 390+0.000 | 8923746,2889381 | 551511,7481769 |
| 391+0.000 | 8923753,1337070 | 551492,9559142 |
| 392+0.000 | 8923759,9784760 | 551474,1636515 |
| 393+0.000 | 8923766,8232449 | 551455,3713888 |
| 394+0.000 | 8923773,6680138 | 551436,5791261 |
| 394+12.981 PC | 8923778,1105350 | 551424,3822170 |
| 395+0.000 | 8923780,5243514 | 551417,7910923 |
| 396+0.000 | 8923787,5287562 | 551399,0578337 |
| 397+0.000 | 8923794,7201403 | 551380,3955546 |
| 397+0.011 PT | 8923794,7242377 | 551380,3850781 |
| 398+0.000 | 8923802,0048806 | 551361,7694289 |
| 399+0.000 | 8923809,2896209 | 551343,1433032 |
| 400+0.000 | 8923816,5743613 | 551324,5171775 |
| 401+0.000 | 8923823,8591016 | 551305,8910518 |
| 402+0.000 | 8923831,1438419 | 551287,2649261 |
| 403+0.000 | 8923838,4285822 | 551268,6388004 |
| 404+0.000 | 8923845,7133225 | 551250,0126747 |
| 405+0.000 | 8923852,9980629 | 551231,3865490 |
| 406+0.000 | 8923860,2828032 | 551212,7604233 |
| 407+0.000 | 8923867,5675435 | 551194,1342976 |
| 408+0.000 | 8923874,8522838 | 551175,5081719 |
| 409+0.000 | 8923882,1370242 | 551156,8820462 |
| 410+0.000 | 8923889,4217645 | 551138,2559205 |
| 411+0.000 | 8923896,7065048 | 551119,6297948 |
| 412+0.000 | 8923903,9912451 | 551101,0036692 |
| 413+0.000 | 8923911,2759855 | 551082,3775435 |
| 414+0.000 | 8923918,5607258 | 551063,7514178 |
| 415+0.000 | 8923925,8454661 | 551045,1252921 |
| 416+0.000 | 8923933,1302064 | 551026,4991664 |
| 417+0.000 | 8923940,4149468 | 551007,8730407 |
| 418+0.000 | 8923947,6996871 | 550989,2469150 |
| 419+0.000 | 8923954,9844274 | 550970,6207893 |
| 420+0.000 | 8923962,2691677 | 550951,9946636 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|---------------|-----------------|----------------|
| 421+0.000 | 8923969,5539080 | 550933,3685379 |
| 422+0.000 | 8923976,8386484 | 550914,7424122 |
| 423+0.000 | 8923984,1233887 | 550896,1162865 |
| 424+0.000 | 8923991,4081290 | 550877,4901608 |
| 425+0.000 | 8923998,6928693 | 550858,8640351 |
| 426+0.000 | 8924005,9776097 | 550840,2379094 |
| 427+0.000 | 8924013,2623500 | 550821,6117837 |
| 428+0.000 | 8924020,5470903 | 550802,9856580 |
| 429+0.000 | 8924027,8318306 | 550784,3595323 |
| 430+0.000 | 8924035,1165710 | 550765,7334066 |
| 431+0.000 | 8924042,4013113 | 550747,1072809 |
| 432+0.000 | 8924049,6860516 | 550728,4811552 |
| 433+0.000 | 8924056,9707919 | 550709,8550295 |
| 434+0.000 | 8924064,2555323 | 550691,2289039 |
| 435+0.000 | 8924071,5402726 | 550672,6027782 |
| 436+0.000 | 8924078,8250129 | 550653,9766525 |
| 437+0.000 | 8924086,1097532 | 550635,3505268 |
| 438+0.000 | 8924093,3944935 | 550616,7244011 |
| 439+0.000 | 8924100,6792339 | 550598,0982754 |
| 440+0.000 | 8924107,9639742 | 550579,4721497 |
| 441+0.000 | 8924115,2487145 | 550560,8460240 |
| 442+0.000 | 8924122,5334548 | 550542,2198983 |
| 443+0.000 | 8924129,8181952 | 550523,5937726 |
| 444+0.000 | 8924137,1029355 | 550504,9676469 |
| 445+0.000 | 8924144,3876758 | 550486,3415212 |
| 446+0.000 | 8924151,6724161 | 550467,7153955 |
| 447+0.000 | 8924158,9571565 | 550449,0892698 |
| 448+0.000 | 8924166,2418968 | 550430,4631441 |
| 448+5.991 PC | 8924168,4241152 | 550424,8834977 |
| 449+0.000 | 8924173,5174972 | 550411,8334487 |
| 449+15.245 PT | 8924179,0397010 | 550397,6233578 |
| 450+0.000 | 8924180,7585502 | 550393,1902985 |
| 451+0.000 | 8924187,9887702 | 550374,5429416 |
| 452+0.000 | 8924195,2189903 | 550355,8955847 |
| 453+0.000 | 8924202,4492103 | 550337,2482279 |
| 454+0.000 | 8924209,6794304 | 550318,6008710 |
| 455+0.000 | 8924216,9096504 | 550299,9535141 |
| 456+0.000 | 8924224,1398704 | 550281,3061573 |
| 457+0.000 | 8924231,3700905 | 550262,6588004 |
| 458+0.000 | 8924238,6003105 | 550244,0114435 |
| 459+0.000 | 8924245,8305306 | 550225,3640867 |
| 460+0.000 | 8924253,0607506 | 550206,7167298 |
| 461+0.000 | 8924260,2909707 | 550188,0693729 |
| 462+0.000 | 8924267,5211907 | 550169,4220161 |
| 463+0.000 | 8924274,7514108 | 550150,7746592 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|-----------|-----------------|----------------|
| 464+0.000 | 8924281,9816308 | 550132,1273023 |
| 465+0.000 | 8924289,2118508 | 550113,4799455 |
| 466+0.000 | 8924296,4420709 | 550094,8325886 |
| 467+0.000 | 8924303,6722909 | 550076,1852317 |
| 468+0.000 | 8924310,9025110 | 550057,5378749 |
| 469+0.000 | 8924318,1327310 | 550038,8905180 |
| 470+0.000 | 8924325,3629511 | 550020,2431611 |
| 471+0.000 | 8924332,5931711 | 550001,5958043 |
| 472+0.000 | 8924339,8233911 | 549982,9484474 |
| 473+0.000 | 8924347,0536112 | 549964,3010905 |
| 474+0.000 | 8924354,2838312 | 549945,6537337 |
| 475+0.000 | 8924361,5140513 | 549927,0063768 |
| 476+0.000 | 8924368,7442713 | 549908,3590199 |
| 477+0.000 | 8924375,9744914 | 549889,7116631 |
| 478+0.000 | 8924383,2047114 | 549871,0643062 |
| 479+0.000 | 8924390,4349315 | 549852,4169493 |
| 480+0.000 | 8924397,6651515 | 549833,7695925 |
| 481+0.000 | 8924404,8953715 | 549815,1222356 |
| 482+0.000 | 8924412,1255916 | 549796,4748787 |
| 483+0.000 | 8924419,3558116 | 549777,8275219 |
| 484+0.000 | 8924426,5860317 | 549759,1801650 |
| 485+0.000 | 8924433,8162517 | 549740,5328081 |
| 486+0.000 | 8924441,0464718 | 549721,8854513 |
| 487+0.000 | 8924448,2766918 | 549703,2380944 |
| 488+0.000 | 8924455,5069118 | 549684,5907375 |
| 489+0.000 | 8924462,7371319 | 549665,9433807 |
| 490+0.000 | 8924469,9673519 | 549647,2960238 |
| 491+0.000 | 8924477,1975720 | 549628,6486669 |
| 492+0.000 | 8924484,4277920 | 549610,0013101 |
| 493+0.000 | 8924491,6580121 | 549591,3539532 |
| 494+0.000 | 8924498,8882321 | 549572,7065963 |
| 495+0.000 | 8924506,1184521 | 549554,0592395 |
| 496+0.000 | 8924513,3486722 | 549535,4118826 |
| 497+0.000 | 8924520,5788922 | 549516,7645257 |
| 498+0.000 | 8924527,8091123 | 549498,1171689 |
| 499+0.000 | 8924535,0393323 | 549479,4698120 |
| 500+0.000 | 8924542,2695524 | 549460,8224551 |
| 501+0.000 | 8924549,4997724 | 549442,1750983 |
| 502+0.000 | 8924556,7299925 | 549423,5277414 |
| 503+0.000 | 8924563,9602125 | 549404,8803845 |
| 504+0.000 | 8924571,1904325 | 549386,2330277 |
| 505+0.000 | 8924578,4206526 | 549367,5856708 |
| 506+0.000 | 8924585,6508726 | 549348,9383139 |
| 507+0.000 | 8924592,8810927 | 549330,2909571 |
| 508+0.000 | 8924600,1113127 | 549311,6436002 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|-----------|-----------------|----------------|
| 509+0.000 | 8924607,3415328 | 549292,9962433 |
| 510+0.000 | 8924614,5717528 | 549274,3488865 |
| 511+0.000 | 8924621,8019728 | 549255,7015296 |
| 512+0.000 | 8924629,0321929 | 549237,0541727 |
| 513+0.000 | 8924636,2624129 | 549218,4068159 |
| 514+0.000 | 8924643,4926330 | 549199,7594590 |
| 515+0.000 | 8924650,7228530 | 549181,1121021 |
| 516+0.000 | 8924657,9530731 | 549162,4647453 |
| 517+0.000 | 8924665,1832931 | 549143,8173884 |
| 518+0.000 | 8924672,4135132 | 549125,1700315 |
| 519+0.000 | 8924679,6437332 | 549106,5226747 |
| 520+0.000 | 8924686,8739532 | 549087,8753178 |
| 521+0.000 | 8924694,1041733 | 549069,2279609 |
| 522+0.000 | 8924701,3343933 | 549050,5806041 |
| 523+0.000 | 8924708,5646134 | 549031,9332472 |
| 524+0.000 | 8924715,7948334 | 549013,2858903 |
| 525+0.000 | 8924723,0250535 | 548994,6385334 |
| 526+0.000 | 8924730,2552735 | 548975,9911766 |
| 527+0.000 | 8924737,4854935 | 548957,3438197 |
| 528+0.000 | 8924744,7157136 | 548938,6964628 |
| 529+0.000 | 8924751,9459336 | 548920,0491060 |
| 530+0.000 | 8924759,1761537 | 548901,4017491 |
| 531+0.000 | 8924766,4063737 | 548882,7543922 |
| 532+0.000 | 8924773,6365938 | 548864,1070354 |
| 533+0.000 | 8924780,8668138 | 548845,4596785 |
| 534+0.000 | 8924788,0970339 | 548826,8123216 |
| 535+0.000 | 8924795,3272539 | 548808,1649648 |
| 536+0.000 | 8924802,5574739 | 548789,5176079 |
| 537+0.000 | 8924809,7876940 | 548770,8702510 |
| 538+0.000 | 8924817,0179140 | 548752,2228942 |
| 539+0.000 | 8924824,2481341 | 548733,5755373 |
| 540+0.000 | 8924831,4783541 | 548714,9281804 |
| 541+0.000 | 8924838,7085742 | 548696,2808236 |
| 542+0.000 | 8924845,9387942 | 548677,6334667 |
| 543+0.000 | 8924853,1690142 | 548658,9861098 |
| 544+0.000 | 8924860,3992343 | 548640,3387530 |
| 545+0.000 | 8924867,6294543 | 548621,6913961 |
| 546+0.000 | 8924874,8596744 | 548603,0440392 |
| 547+0.000 | 8924882,0898944 | 548584,3966824 |
| 548+0.000 | 8924889,3201145 | 548565,7493255 |
| 549+0.000 | 8924896,5503345 | 548547,1019686 |
| 550+0.000 | 8924903,7805546 | 548528,4546118 |
| 551+0.000 | 8924911,0107746 | 548509,8072549 |
| 552+0.000 | 8924918,2409946 | 548491,1598980 |
| 553+0.000 | 8924925,4712147 | 548472,5125412 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|-----------|-----------------|----------------|
| 554+0.000 | 8924932,7014347 | 548453,8651843 |
| 555+0.000 | 8924939,9316548 | 548435,2178274 |
| 556+0.000 | 8924947,1618748 | 548416,5704706 |
| 557+0.000 | 8924954,3920949 | 548397,9231137 |
| 558+0.000 | 8924961,6223149 | 548379,2757568 |
| 559+0.000 | 8924968,8525349 | 548360,6284000 |
| 560+0.000 | 8924976,0827550 | 548341,9810431 |
| 561+0.000 | 8924983,3129750 | 548323,3336862 |
| 562+0.000 | 8924990,5431951 | 548304,6863294 |
| 563+0.000 | 8924997,7734151 | 548286,0389725 |
| 564+0.000 | 8925005,0036352 | 548267,3916156 |
| 565+0.000 | 8925012,2338552 | 548248,7442588 |
| 566+0.000 | 8925019,4640752 | 548230,0969019 |
| 567+0.000 | 8925026,6942953 | 548211,4495450 |
| 568+0.000 | 8925033,9245153 | 548192,8021882 |
| 569+0.000 | 8925041,1547354 | 548174,1548313 |
| 570+0.000 | 8925048,3849554 | 548155,5074744 |
| 571+0.000 | 8925055,6151755 | 548136,8601176 |
| 572+0.000 | 8925062,8453955 | 548118,2127607 |
| 573+0.000 | 8925070,0756156 | 548099,5654038 |
| 574+0.000 | 8925077,3058356 | 548080,9180470 |
| 575+0.000 | 8925084,5360556 | 548062,2706901 |
| 576+0.000 | 8925091,7662757 | 548043,6233332 |
| 577+0.000 | 8925098,9964957 | 548024,9759764 |
| 578+0.000 | 8925106,2267158 | 548006,3286195 |
| 579+0.000 | 8925113,4569358 | 547987,6812626 |
| 580+0.000 | 8925120,6871559 | 547969,0339058 |
| 581+0.000 | 8925127,9173759 | 547950,3865489 |
| 582+0.000 | 8925135,1475959 | 547931,7391920 |
| 583+0.000 | 8925142,3778160 | 547913,0918352 |
| 584+0.000 | 8925149,6080360 | 547894,4444783 |
| 585+0.000 | 8925156,8382561 | 547875,7971214 |
| 586+0.000 | 8925164,0684761 | 547857,1497646 |
| 587+0.000 | 8925171,2986962 | 547838,5024077 |
| 588+0.000 | 8925178,5289162 | 547819,8550508 |
| 589+0.000 | 8925185,7591363 | 547801,2076940 |
| 590+0.000 | 8925192,9893563 | 547782,5603371 |
| 591+0.000 | 8925200,2195763 | 547763,9129802 |
| 592+0.000 | 8925207,4497964 | 547745,2656234 |
| 593+0.000 | 8925214,6800164 | 547726,6182665 |
| 594+0.000 | 8925221,9102365 | 547707,9709096 |
| 595+0.000 | 8925229,1404565 | 547689,3235528 |
| 596+0.000 | 8925236,3706766 | 547670,6761959 |
| 597+0.000 | 8925243,6008966 | 547652,0288390 |
| 598+0.000 | 8925250,8311166 | 547633,3814822 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|--------------|-----------------|----------------|
| 599+0.000 | 8925258,0613367 | 547614,7341253 |
| 600+0.000 | 8925265,2915567 | 547596,0867684 |
| 600+3.576 PI | 8925266,5842747 | 547592,7527380 |
| 601+0.000 | 8925250,1997220 | 547591,6132953 |
| 602+0.000 | 8925230,2479106 | 547590,2257723 |
| 603+0.000 | 8925210,2960991 | 547588,8382492 |
| 604+0.000 | 8925190,3442877 | 547587,4507261 |
| 605+0.000 | 8925170,3924763 | 547586,0632030 |
| 606+0.000 | 8925150,4406648 | 547584,6756799 |
| 607+0.000 | 8925130,4888534 | 547583,2881568 |
| 608+0.000 | 8925110,5370419 | 547581,9006338 |
| 609+0.000 | 8925090,5852305 | 547580,5131107 |
| 610+0.000 | 8925070,6334191 | 547579,1255876 |
| 611+0.000 | 8925050,6816076 | 547577,7380645 |
| 612+0.000 | 8925030,7297962 | 547576,3505414 |
| 613+0.000 | 8925010,7779847 | 547574,9630183 |
| 614+0.000 | 8924990,8261733 | 547573,5754953 |
| 615+0.000 | 8924970,8743619 | 547572,1879722 |
| 616+0.000 | 8924950,9225504 | 547570,8004491 |
| 617+0.000 | 8924930,9707390 | 547569,4129260 |
| 618+0.000 | 8924911,0189275 | 547568,0254029 |
| 619+0.000 | 8924891,0671161 | 547566,6378798 |
| 620+0.000 | 8924871,1153047 | 547565,2503568 |
| 621+0.000 | 8924851,1634932 | 547563,8628337 |
| 622+0.000 | 8924831,2116818 | 547562,4753106 |
| 623+0.000 | 8924811,2598704 | 547561,0877875 |
| 624+0.000 | 8924791,3080589 | 547559,7002644 |
| 625+0.000 | 8924771,3562475 | 547558,3127413 |
| 626+0.000 | 8924751,4044360 | 547556,9252183 |
| 627+0.000 | 8924731,4526246 | 547555,5376952 |
| 628+0.000 | 8924711,5008132 | 547554,1501721 |
| 629+0.000 | 8924691,5490017 | 547552,7626490 |
| 630+0.000 | 8924671,5971903 | 547551,3751259 |
| 631+0.000 | 8924651,6453788 | 547549,9876028 |
| 632+0.000 | 8924631,6935674 | 547548,6000798 |
| 633+0.000 | 8924611,7417560 | 547547,2125567 |
| 634+0.000 | 8924591,7899445 | 547545,8250336 |
| 635+0.000 | 8924571,8381331 | 547544,4375105 |
| 636+0.000 | 8924551,8863216 | 547543,0499874 |
| 637+0.000 | 8924531,9345102 | 547541,6624643 |
| 638+0.000 | 8924511,9826988 | 547540,2749413 |
| 639+0.000 | 8924492,0308873 | 547538,8874182 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|-----------|-----------------|----------------|
| 640+0.000 | 8924472,0790759 | 547537,4998951 |
| 641+0.000 | 8924452,1272645 | 547536,1123720 |
| 642+0.000 | 8924432,1754530 | 547534,7248489 |
| 643+0.000 | 8924412,2236416 | 547533,3373258 |
| 644+0.000 | 8924392,2718301 | 547531,9498028 |
| 645+0.000 | 8924372,3200187 | 547530,5622797 |
| 646+0.000 | 8924352,3682073 | 547529,1747566 |
| 647+0.000 | 8924332,4163958 | 547527,7872335 |
| 648+0.000 | 8924312,4645844 | 547526,3997104 |
| 649+0.000 | 8924292,5127729 | 547525,0121873 |
| 650+0.000 | 8924272,5609615 | 547523,6246643 |
| 651+0.000 | 8924252,6091501 | 547522,2371412 |
| 652+0.000 | 8924232,6573386 | 547520,8496181 |
| 653+0.000 | 8924212,7055272 | 547519,4620950 |
| 654+0.000 | 8924192,7537157 | 547518,0745719 |
| 655+0.000 | 8924172,8019043 | 547516,6870488 |
| 656+0.000 | 8924152,8500929 | 547515,2995258 |
| 657+0.000 | 8924132,8982814 | 547513,9120027 |
| 658+0.000 | 8924112,9464700 | 547512,5244796 |
| 659+0.000 | 8924092,9946586 | 547511,1369565 |
| 660+0.000 | 8924073,0428471 | 547509,7494334 |
| 661+0.000 | 8924053,0910357 | 547508,3619103 |
| 662+0.000 | 8924033,1392242 | 547506,9743873 |
| 663+0.000 | 8924013,1874128 | 547505,5868642 |
| 664+0.000 | 8923993,2356014 | 547504,1993411 |
| 665+0.000 | 8923973,2837899 | 547502,8118180 |
| 666+0.000 | 8923953,3319785 | 547501,4242949 |
| 667+0.000 | 8923933,3801670 | 547500,0367718 |
| 668+0.000 | 8923913,4283556 | 547498,6492488 |
| 669+0.000 | 8923893,4765442 | 547497,2617257 |
| 670+0.000 | 8923873,5247327 | 547495,8742026 |
| 671+0.000 | 8923853,5729213 | 547494,4866795 |
| 672+0.000 | 8923833,6211098 | 547493,0991564 |
| 673+0.000 | 8923813,6692984 | 547491,7116333 |
| 674+0.000 | 8923793,7174870 | 547490,3241103 |
| 675+0.000 | 8923773,7656755 | 547488,9365872 |
| 676+0.000 | 8923753,8138641 | 547487,5490641 |
| 677+0.000 | 8923733,8620527 | 547486,1615410 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Eixo Principal

| Estaca | Norte | Este |
|---------------|-----------------|----------------|
| 678+0.000 | 8923713,9102412 | 547484,7740179 |
| 679+0.000 | 8923693,9584298 | 547483,3864948 |
| 680+0.000 | 8923674,0066183 | 547481,9989718 |
| 681+0.000 | 8923654,0548069 | 547480,6114487 |
| 682+0.000 | 8923634,1029955 | 547479,2239256 |
| 683+0.000 | 8923614,1511840 | 547477,8364025 |
| 684+0.000 | 8923594,1993726 | 547476,4488794 |
| 685+0.000 | 8923574,2475611 | 547475,0613563 |
| 686+0.000 | 8923554,2957497 | 547473,6738333 |
| 687+0.000 | 8923534,3439383 | 547472,2863102 |
| 688+0.000 | 8923514,3921268 | 547470,8987871 |
| 689+0.000 | 8923494,4403154 | 547469,5112640 |
| 690+0.000 | 8923474,4885039 | 547468,1237409 |
| 691+0.000 | 8923454,5366925 | 547466,7362178 |
| 692+0.000 | 8923434,5848811 | 547465,3486948 |
| 693+0.000 | 8923414,6330696 | 547463,9611717 |
| 694+0.000 | 8923394,6812582 | 547462,5736486 |
| 695+0.000 | 8923374,7294468 | 547461,1861255 |
| 696+0.000 | 8923354,7776353 | 547459,7986024 |
| 697+0.000 | 8923334,8258239 | 547458,4110793 |
| 698+0.000 | 8923314,8740124 | 547457,0235563 |
| 699+0.000 | 8923294,9222010 | 547455,6360332 |
| 699+18.198 PI | 8923276,7685168 | 547454,3735585 |
| 700+0.000 | 8923277,3406771 | 547452,6643098 |
| 701+0.000 | 8923283,6893016 | 547433,6986839 |
| 702+0.000 | 8923290,0379261 | 547414,7330580 |
| 703+0.000 | 8923296,3865507 | 547395,7674321 |
| 704+0.000 | 8923302,7351752 | 547376,8018061 |
| 704+1.101 | 8923303,0846878 | 547375,7576863 |

Alinhamento: Rotatoria 3

| Estaca | Norte | Este |
|------------|-----------------|----------------|
| 0+0.000 | 8923307,8027088 | 547456,5317915 |
| 0+0.215 PI | 8923307,7644890 | 547456,7435868 |
| 1+0.000 | 8923303,5257402 | 547437,5364196 |
| 2+0.000 | 8923286,9195018 | 547427,3703260 |
| 3+0.000 | 8923268,0571150 | 547432,2001267 |
| 4+0.000 | 8923258,3802504 | 547449,0961293 |
| 5+0.000 | 8923263,7587643 | 547467,8094455 |
| 6+0.000 | 8923280,9301223 | 547476,9888287 |
| 7+0.000 | 8923299,4784091 | 547471,0661882 |
| 7+16.649 | 8923307,7226287 | 547456,9546927 |

Relatório de Alinhamento Horizontal por Estaca

Alinhamento: Rotatória 1

| Estaca | Norte | Este |
|------------|-----------------|----------------|
| 0+0.000 | 8923627,2766892 | 551905,2963203 |
| 0+0.120 PI | 8923627,2675682 | 551905,4155947 |
| 1+0.000 | 8923619,1870740 | 551887,9556116 |
| 2+0.000 | 8923600,1650799 | 551885,8805711 |
| 3+0.000 | 8923588,5269514 | 551901,0692515 |
| 4+0.000 | 8923595,4790216 | 551918,8964995 |
| 5+0.000 | 8923614,3271546 | 551922,1964895 |
| 6+0.000 | 8923626,9225165 | 551907,7916670 |
| 6+2.283 | 8923627,2569846 | 551905,5347483 |

Alinhamento: Rotatoria 2

| Estaca | Norte | Este |
|------------|-----------------|----------------|
| 0+0.000 | 8925254,2647960 | 547624,5257291 |
| 0+0.035 PI | 8925254,2304599 | 547624,5312024 |
| 1+0.000 | 8925269,4370967 | 547612,7971552 |
| 2+0.000 | 8925267,7654712 | 547593,6931288 |
| 3+0.000 | 8925250,7868042 | 547584,7778036 |
| 4+0.000 | 8925234,1112038 | 547594,2478884 |
| 5+0.000 | 8925233,0701399 | 547613,3966309 |
| 6+0.000 | 8925248,6207619 | 547624,6187658 |
| 6+5.594 | 8925254,1961049 | 547624,5365564 |

6. NOTAS DE SERVIÇO

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Escala | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | |
|----------|-----------------------|---------------|---------|---------------|-------|---------|-------|----------|---------|---------------|-------|--------------|-------|--|-------|---------|
| | | OFFSET | | Bordo (Pt 03) | | Cota | | Vermelha | | Bordo (Pt 04) | | Falso Alorro | | | | |
| | | Alast | Cota | Alt | | Alast | Cota | % | Projeto | Terreno | Alast | Cota | Alt | | | |
| MT-206 | | | | | | | | | | | | | | | | |
| 0+0.000 | | -6.42 | 297.76 | 0.24 | -6.07 | 297.991 | -3.00 | 298.598 | 297.582 | 1.016 | 6.07 | 297.991 | -3.00 | | 6.95 | 297.401 |
| 1+0.000 | | -6.43 | 298.73 | -0.36 | -6.07 | 298.371 | -3.00 | 298.978 | 298.588 | 0.390 | 6.07 | 298.371 | -3.00 | | 6.30 | 298.218 |
| 2+0.000 | | -6.20 | 298.88 | -0.13 | -6.07 | 298.752 | -3.00 | 299.359 | 298.967 | 0.392 | 6.07 | 298.752 | -3.00 | | 6.48 | 299.162 |
| 3+0.000 | | -6.42 | 299.49 | -0.35 | -6.07 | 299.132 | -3.00 | 299.739 | 299.831 | -0.092 | 6.07 | 299.132 | -3.00 | | 6.40 | 299.460 |
| 4+0.000 | | -6.61 | 300.06 | -0.54 | -6.07 | 299.512 | -3.00 | 300.119 | 299.921 | 0.198 | 6.07 | 299.512 | -3.00 | | 6.42 | 299.863 |
| 5+0.000 | | -6.68 | 300.51 | -0.62 | -6.07 | 299.893 | -3.00 | 300.500 | 300.472 | 0.027 | 6.07 | 299.893 | -3.00 | | 6.46 | 300.288 |
| 6+0.000 | | -6.64 | 300.85 | -0.57 | -6.07 | 300.273 | -3.00 | 300.880 | 300.743 | 0.138 | 6.07 | 300.273 | -3.00 | | 6.49 | 300.692 |
| 7+0.000 | | -6.66 | 301.25 | -0.59 | -6.07 | 300.654 | -3.00 | 301.261 | 301.146 | 0.115 | 6.07 | 300.654 | -3.00 | | 6.57 | 301.156 |
| 8+0.000 | | -6.65 | 301.62 | -0.59 | -6.07 | 301.034 | -3.00 | 301.641 | 301.577 | 0.065 | 6.07 | 301.034 | -3.00 | | 6.45 | 301.415 |
| 9+0.000 | | -6.40 | 301.75 | -0.33 | -6.07 | 301.415 | -3.00 | 302.022 | 301.636 | 0.385 | 6.07 | 301.415 | -3.00 | | 6.44 | 301.783 |
| 10+0.000 | | -6.67 | 302.38 | -0.60 | -6.07 | 301.781 | -3.00 | 302.388 | 302.274 | 0.114 | 6.07 | 301.781 | -3.00 | | 6.26 | 301.976 |
| 11+0.000 | | -6.71 | 302.70 | -0.65 | -6.07 | 302.048 | -3.00 | 302.655 | 302.659 | -0.004 | 6.07 | 302.048 | -3.00 | | 6.24 | 302.223 |
| 12+0.000 | | -6.55 | 302.68 | -0.48 | -6.07 | 302.202 | -3.00 | 302.809 | 302.704 | 0.105 | 6.07 | 302.202 | -3.00 | | 6.50 | 302.636 |
| 13+0.000 | | -6.74 | 302.92 | -0.67 | -6.07 | 302.242 | -3.00 | 302.849 | 302.825 | 0.024 | 6.07 | 302.242 | -3.00 | | 6.60 | 302.772 |
| 14+0.000 | | -6.78 | 302.88 | -0.71 | -6.07 | 302.170 | -3.00 | 302.777 | 302.837 | -0.061 | 6.07 | 302.170 | -3.00 | | 6.53 | 302.633 |
| 15+0.000 | | -6.77 | 302.68 | -0.70 | -6.07 | 301.975 | -3.00 | 302.582 | 302.537 | 0.045 | 6.07 | 301.975 | -3.00 | | 6.45 | 302.353 |
| 16+0.000 | | -6.16 | 301.70 | -0.09 | -6.07 | 301.612 | -3.00 | 302.219 | 301.655 | 0.565 | 6.07 | 301.612 | -3.00 | | 7.16 | 302.702 |
| 17+0.000 | | -6.09 | 301.10 | -0.02 | -6.07 | 301.072 | -3.00 | 301.679 | 301.156 | 0.523 | 6.07 | 301.072 | -3.00 | | 7.27 | 302.275 |
| 18+0.000 | | -6.59 | 300.00 | 0.35 | -6.07 | 300.355 | -3.00 | 300.962 | 299.901 | 1.061 | 6.07 | 300.355 | -3.00 | | 7.03 | 301.312 |
| 19+0.000 | | -7.33 | 298.64 | 0.84 | -6.07 | 299.482 | -3.00 | 300.089 | 298.347 | 1.742 | 6.07 | 299.482 | -3.00 | | 6.25 | 299.659 |
| 20+0.000 | | -8.38 | 297.05 | 1.54 | -6.07 | 298.588 | -3.00 | 299.195 | 296.791 | 2.404 | 6.07 | 298.588 | -3.00 | | 6.30 | 298.433 |
| 21+0.000 | | -9.38 | 295.48 | 2.21 | -6.07 | 297.694 | -3.00 | 298.301 | 295.304 | 2.997 | 6.07 | 297.694 | -3.00 | | 6.69 | 297.278 |
| 22+0.000 | | -9.78 | 294.32 | 2.47 | -6.07 | 296.799 | -3.00 | 297.406 | 293.833 | 3.573 | 6.07 | 296.799 | -3.00 | | 7.87 | 295.601 |
| 23+0.000 | | -10.71 | 292.81 | 3.09 | -6.07 | 295.905 | -3.00 | 296.512 | 292.244 | 4.268 | 6.07 | 295.905 | -3.00 | | 9.35 | 293.714 |
| 24+0.000 | | -11.76 | 291.22 | 3.79 | -6.07 | 295.010 | -3.00 | 295.617 | 291.089 | 4.529 | 6.07 | 295.010 | -3.00 | | 11.66 | 291.283 |
| 25+0.000 | | -11.63 | 290.41 | 3.71 | -6.07 | 294.116 | -3.00 | 294.723 | 290.216 | 4.507 | 6.07 | 294.116 | -3.00 | | 13.70 | 289.026 |
| 26+0.000 | | -15.13 | 287.18 | 6.04 | -6.07 | 293.222 | -3.00 | 293.829 | 289.723 | 4.105 | 6.07 | 293.222 | -3.00 | | 12.46 | 288.959 |
| 27+0.000 | | -10.25 | 289.54 | 2.79 | -6.07 | 292.327 | -3.00 | 292.934 | 289.776 | 3.159 | 6.07 | 292.327 | -3.00 | | 9.49 | 290.045 |
| 28+0.000 | | -8.59 | 289.75 | 1.68 | -6.07 | 291.433 | -3.00 | 292.040 | 289.817 | 2.223 | 6.07 | 291.433 | -3.00 | | 6.57 | 291.099 |
| 29+0.000 | | -7.30 | 289.72 | 0.82 | -6.07 | 290.538 | -3.00 | 291.145 | 289.715 | 1.430 | 6.07 | 290.538 | -3.00 | | 8.25 | 292.721 |
| 30+0.000 | | -6.16 | 289.58 | 0.06 | -6.07 | 289.644 | -3.00 | 290.251 | 289.913 | 0.338 | 6.07 | 289.644 | -3.00 | | 9.11 | 292.684 |
| 31+0.000 | | -6.25 | 288.94 | -0.19 | -6.07 | 288.750 | -3.00 | 289.357 | 288.882 | 0.475 | 6.07 | 288.750 | -3.00 | | 8.97 | 291.650 |
| 32+0.000 | | -6.43 | 288.22 | -0.37 | -6.07 | 287.855 | -3.00 | 288.462 | 287.988 | 0.474 | 6.07 | 287.855 | -3.00 | | 8.01 | 289.802 |
| 33+0.000 | | -6.317 | 287.210 | -0.25 | -6.07 | 286.961 | -3.00 | 287.568 | 287.020 | 0.548 | 6.07 | 286.961 | -3.00 | | 7.54 | 288.436 |
| 34+0.000 | | -6.167 | 286.166 | -0.10 | -6.07 | 286.066 | -3.00 | 286.673 | 286.051 | 0.623 | 6.07 | 286.066 | -3.00 | | 7.19 | 287.186 |
| 35+0.000 | | -6.212 | 285.317 | -0.14 | -6.07 | 285.172 | -3.00 | 285.779 | 285.198 | 0.581 | 6.07 | 285.172 | -3.00 | | 7.21 | 286.317 |
| 36+0.000 | | -6.104 | 284.314 | -0.04 | -6.07 | 284.278 | -3.00 | 284.885 | 284.096 | 0.789 | 6.07 | 284.278 | -3.00 | | 7.00 | 285.212 |
| 37+0.000 | | -6.275 | 283.245 | 0.14 | -6.07 | 283.383 | -3.00 | 283.990 | 283.039 | 0.951 | 6.07 | 283.383 | -3.00 | | 6.53 | 283.847 |
| 38+0.000 | | -6.591 | 282.140 | 0.35 | -6.07 | 282.489 | -3.00 | 283.096 | 281.925 | 1.171 | 6.07 | 282.489 | -3.00 | | 6.11 | 282.463 |
| 39+0.000 | | -6.931 | 281.019 | 0.57 | -6.07 | 281.594 | -3.00 | 282.201 | 280.807 | 1.395 | 6.07 | 281.594 | -3.00 | | 6.58 | 281.250 |
| 40+0.000 | | -7.145 | 279.981 | 0.72 | -6.07 | 280.700 | -3.00 | 281.307 | 279.815 | 1.492 | 6.07 | 280.700 | -3.00 | | 6.65 | 280.310 |
| 41+0.000 | | -7.294 | 278.988 | 0.82 | -6.07 | 279.806 | -3.00 | 280.413 | 278.904 | 1.508 | 6.07 | 279.806 | -3.00 | | 6.87 | 279.268 |
| 42+0.000 | | -6.468 | 278.644 | 0.27 | -6.07 | 278.911 | -3.00 | 279.518 | 278.274 | 1.244 | 6.07 | 278.911 | -3.00 | | 7.12 | 278.208 |
| 43+0.000 | | -6.244 | 278.193 | -0.18 | -6.07 | 278.017 | -3.00 | 278.624 | 277.856 | 0.768 | 6.07 | 278.017 | -3.00 | | 6.65 | 277.626 |
| 44+0.000 | | -6.630 | 277.685 | -0.56 | -6.07 | 277.122 | -3.00 | 277.729 | 277.409 | 0.320 | 6.07 | 277.122 | -3.00 | | 6.13 | 277.181 |
| 45+0.000 | | -6.945 | 277.106 | -0.88 | -6.07 | 276.228 | -3.00 | 276.835 | 277.073 | -0.238 | 6.07 | 276.228 | -3.00 | | 6.96 | 277.122 |
| 46+0.000 | | -7.282 | 276.548 | -1.21 | -6.07 | 275.334 | -3.00 | 275.941 | 276.765 | -0.825 | 6.07 | 275.334 | -3.00 | | 7.81 | 277.072 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | | Eixo | | | | | Lado Direito | | | | | | | | |
|----------|-----------------------|---------------|---------|-------|---------------|------|------|---------|----------|--------------|---------|--------------|--------------|-------|---------|-------|--------|-------|---------|--------|
| | | Falso Alente | | | Bordo (Pt 03) | | Cota | Terreno | Vermelha | Bordo (Pt04) | | | Falso Alente | | Cota | Alt | Offset | | | |
| | | Alast | Cota | Alt | Alast | Cota | | | | % | Alast | Cota | % | Alast | | | | Cota | Alt | |
| MT-206 | | | | | | | | | | | | | | | | | | | | |
| 47+0.000 | | -8.383 | 276.754 | -2.32 | | | | -6.07 | 274.439 | -3.00 | 275.046 | 276.584 | -1.537 | 6.07 | 274.439 | -3.00 | | 8,70 | 277.067 | -2.628 |
| 48+0.000 | | -8.497 | 275.974 | -2.43 | | | | -6.07 | 273.545 | -3.00 | 274.152 | 275.878 | -1.726 | 6.07 | 273.545 | -3.00 | | 9,07 | 276.550 | -3.005 |
| 49+0.000 | | -8.218 | 274.800 | -2.15 | | | | -6.07 | 272.650 | -3.00 | 273.257 | 274.838 | -1.581 | 6.07 | 272.650 | -3.00 | | 8,97 | 275.556 | -2.906 |
| 50+0.000 | | -7.481 | 273.169 | -1.41 | | | | -6.07 | 271.756 | -3.00 | 272.363 | 273.384 | -1.022 | 6.07 | 271.756 | -3.00 | | 8,32 | 274.003 | -2.247 |
| 51+0.000 | | -7.111 | 271.905 | -1.04 | | | | -6.07 | 270.862 | -3.00 | 271.469 | 271.967 | -0.498 | 6.07 | 270.862 | -3.00 | | 8,16 | 272.949 | -2.087 |
| 52+0.000 | | -6.859 | 270.758 | -0.79 | | | | -6.07 | 269.967 | -3.00 | 270.574 | 270.787 | -0.213 | 6.07 | 269.967 | -3.00 | | 7,73 | 271.634 | -1.667 |
| 53+0.000 | | -6.307 | 269.372 | -0.24 | | | | -6.07 | 269.132 | -3.00 | 269.739 | 269.274 | 0.465 | 6.07 | 269.132 | -3.00 | | 7,18 | 270.242 | -1.110 |
| 54+0.000 | | -6.691 | 267.999 | 0.42 | | | | -6.07 | 268.415 | -3.00 | 269.022 | 267.972 | 1.051 | 6.07 | 268.415 | -3.00 | | 6,28 | 268.275 | 0.140 |
| 55+0.000 | | -7.649 | 266.763 | 1.05 | | | | -6.07 | 267.817 | -3.00 | 268.424 | 266.841 | 1.583 | 6.07 | 267.817 | -3.00 | | 7,18 | 267.074 | 0.743 |
| 56+0.000 | | -8.672 | 265.601 | 1.74 | | | | -6.07 | 267.337 | -3.00 | 267.944 | 265.748 | 2.196 | 6.07 | 267.337 | -3.00 | | 7,75 | 266.216 | 1.121 |
| 57+0.000 | | -8.644 | 265.258 | 1.72 | | | | -6.07 | 266.976 | -3.00 | 267.583 | 265.318 | 2.265 | 6.07 | 266.976 | -3.00 | | 9,96 | 264.378 | 2.598 |
| 58+0.000 | | -9.092 | 264.716 | 2.02 | | | | -6.07 | 266.733 | -3.00 | 267.340 | 264.765 | 2.574 | 6.07 | 266.733 | -3.00 | | 11,53 | 263.092 | 3.641 |
| 59+0.000 | | -9.053 | 264.618 | 1.99 | | | | -6.07 | 266.608 | -3.00 | 267.215 | 264.754 | 2.461 | 6.07 | 266.608 | -3.00 | | 12,56 | 262.279 | 4.329 |
| 60+0.000 | | -8.756 | 264.810 | 1.79 | | | | -6.07 | 266.602 | -3.00 | 267.209 | 264.856 | 2.353 | 6.07 | 266.602 | -3.00 | | 8,48 | 264.991 | 1.611 |
| 61+0.000 | | -8.769 | 264.913 | 1.80 | | | | -6.07 | 266.714 | -3.00 | 267.321 | 265.176 | 2.145 | 6.07 | 266.714 | -3.00 | | 7,30 | 265.896 | 0.818 |
| 62+0.000 | | -7.414 | 266.047 | 0.90 | | | | -6.07 | 266.945 | -3.00 | 267.552 | 266.047 | 1.505 | 6.07 | 266.945 | -3.00 | | 7,22 | 266.179 | 0.766 |
| 63+0.000 | | -6.196 | 267.208 | 0.09 | | | | -6.07 | 267.294 | -3.00 | 267.901 | 266.988 | 0.913 | 6.07 | 267.294 | -3.00 | | 6,54 | 266.980 | 0.314 |
| 64+0.000 | | -6.419 | 268.113 | -0.35 | | | | -6.07 | 267.762 | -3.00 | 268.369 | 267.811 | 0.558 | 6.07 | 267.762 | -3.00 | | 6,09 | 267.786 | -0.024 |
| 65+0.000 | | -12.642 | 269.863 | -1.57 | | | | -6.07 | 268.289 | -3.00 | 268.896 | 268.527 | 0.368 | 6.07 | 268.289 | -3.00 | | 11,95 | 269.168 | -0.879 |
| 66+0.000 | | -12.720 | 270.468 | -1.65 | | | | -6.07 | 268.815 | -3.00 | 269.422 | 269.162 | 0.261 | 6.07 | 268.815 | -3.00 | | 12,02 | 269.771 | -0.956 |
| 67+0.000 | | -12.929 | 271.204 | -1.86 | | | | -6.07 | 269.342 | -3.00 | 269.949 | 269.672 | 0.277 | 6.07 | 269.342 | -3.00 | | 12,16 | 270.434 | -1.092 |
| 68+0.000 | | -13.025 | 271.826 | -1.96 | | | | -6.07 | 269.869 | -3.00 | 270.476 | 270.385 | 0.091 | 6.07 | 269.869 | -3.00 | | 12,20 | 271.004 | -1.135 |
| 69+0.000 | | -13.144 | 272.472 | -2.08 | | | | -6.07 | 270.396 | -3.00 | 271.003 | 271.120 | -0.117 | 6.07 | 270.396 | -3.00 | | 12,21 | 271.537 | -1.141 |
| 70+0.000 | | -13.154 | 273.009 | -2.09 | | | | -6.07 | 270.923 | -3.00 | 271.530 | 271.613 | -0.083 | 6.07 | 270.923 | -3.00 | | 12,29 | 272.143 | -1.220 |
| 71+0.000 | | -13.165 | 273.548 | -2.10 | | | | -6.07 | 271.450 | -3.00 | 272.057 | 272.156 | -0.099 | 6.07 | 271.450 | -3.00 | | 12,27 | 272.651 | -1.201 |
| 72+0.000 | | -13.205 | 274.114 | -2.14 | | | | -6.07 | 271.977 | -3.00 | 272.584 | 272.760 | -0.177 | 6.07 | 271.977 | -3.00 | | 12,38 | 273.292 | -1.315 |
| 73+0.000 | | -13.168 | 274.604 | -2.10 | | | | -6.07 | 272.503 | -3.00 | 273.110 | 273.305 | -0.195 | 6.07 | 272.503 | -3.00 | | 12,49 | 273.927 | -1.424 |
| 74+0.000 | | -13.521 | 275.484 | -2.45 | | | | -6.07 | 273.030 | -3.00 | 273.637 | 274.034 | -0.397 | 6.07 | 273.030 | -3.00 | | 12,71 | 274.669 | -1.639 |
| 75+0.000 | | -13.502 | 275.991 | -2.43 | | | | -6.07 | 273.557 | -3.00 | 274.164 | 274.766 | -0.602 | 6.07 | 273.557 | -3.00 | | 12,67 | 275.158 | -1.601 |
| 76+0.000 | | -13.757 | 276.773 | -2.69 | | | | -6.07 | 274.084 | -3.00 | 274.691 | 275.338 | -0.647 | 6.07 | 274.084 | -3.00 | | 12,88 | 275.895 | -1.811 |
| 77+0.000 | | -13.674 | 277.217 | -2.61 | | | | -6.07 | 274.611 | -3.00 | 275.218 | 275.601 | -0.383 | 6.07 | 274.611 | -3.00 | | 12,83 | 276.378 | -1.767 |
| 78+0.000 | | -13.753 | 277.824 | -2.69 | | | | -6.07 | 275.138 | -3.00 | 275.745 | 276.242 | -0.497 | 6.07 | 275.138 | -3.00 | | 12,84 | 276.906 | -1.768 |
| 79+0.000 | | -13.788 | 278.385 | -2.72 | | | | -6.07 | 275.664 | -3.00 | 276.271 | 276.698 | -0.427 | 6.07 | 275.664 | -3.00 | | 12,75 | 277.346 | -1.682 |
| 80+0.000 | | -13.703 | 278.827 | -2.64 | | | | -6.07 | 276.191 | -3.00 | 276.798 | 277.147 | -0.349 | 6.07 | 276.191 | -3.00 | | 12,73 | 277.849 | -1.658 |
| 81+0.000 | | -13.766 | 279.417 | -2.70 | | | | -6.07 | 276.718 | -3.00 | 277.325 | 277.604 | -0.279 | 6.07 | 276.718 | -3.00 | | 12,66 | 278.315 | -1.597 |
| 82+0.000 | | -13.642 | 279.790 | -2.57 | | | | -6.07 | 277.216 | -3.00 | 277.823 | 278.009 | -0.186 | 6.07 | 277.216 | -3.00 | | 12,59 | 278.733 | -1.517 |
| 83+0.000 | | -13.280 | 279.867 | -2.21 | | | | -6.07 | 277.655 | -3.00 | 278.262 | 278.606 | -0.345 | 6.07 | 277.655 | -3.00 | | 12,45 | 279.034 | -1.379 |
| 84+0.000 | | -13.266 | 280.254 | -2.22 | | | | -6.07 | 278.035 | -3.00 | 278.642 | 278.676 | -0.034 | 6.07 | 278.035 | -3.00 | | 12,30 | 279.265 | -1.230 |
| 85+0.000 | | -13.297 | 280.586 | -2.23 | | | | -6.07 | 278.357 | -3.00 | 278.964 | 278.946 | 0.018 | 6.07 | 278.357 | -3.00 | | 12,15 | 279.436 | -1.079 |
| 86+0.000 | | -13.276 | 280.829 | -2.21 | | | | -6.07 | 278.620 | -3.00 | 279.227 | 279.575 | -0.347 | 6.07 | 278.620 | -3.00 | | 12,14 | 279.689 | -1.069 |
| 87+0.000 | | -13.020 | 280.778 | -1.95 | | | | -6.07 | 278.825 | -3.00 | 279.432 | 279.406 | 0.026 | 6.07 | 278.825 | -3.00 | | 12,15 | 279.909 | -1.084 |
| 88+0.000 | | -12.978 | 280.882 | -1.91 | | | | -6.07 | 278.971 | -3.00 | 279.578 | 279.843 | -0.264 | 6.07 | 278.971 | -3.00 | | 12,15 | 280.053 | -1.082 |
| 89+0.000 | | -13.112 | 281.104 | -2.04 | | | | -6.07 | 279.059 | -3.00 | 279.666 | 280.062 | -0.395 | 6.07 | 279.059 | -3.00 | | 12,03 | 280.026 | -0.967 |
| 90+0.000 | | -13.317 | 281.337 | -2.25 | | | | -6.07 | 279.088 | -3.00 | 279.695 | 280.292 | -0.597 | 6.07 | 279.088 | -3.00 | | 12,00 | 280.023 | -0.935 |
| 91+0.000 | | -13.128 | 281.119 | -2.06 | | | | -6.07 | 279.059 | -3.00 | 279.666 | 280.090 | -0.424 | 6.07 | 279.059 | -3.00 | | 12,09 | 280.084 | -1.025 |
| 92+0.000 | | -13.264 | 281.167 | -2.20 | | | | -6.07 | 278.971 | -3.00 | 279.578 | 279.860 | -0.282 | 6.07 | 278.971 | -3.00 | | 12,10 | 280.007 | -1.036 |
| 93+0.000 | | -13.129 | 280.885 | -2.06 | | | | -6.07 | 278.824 | -3.00 | 279.431 | 279.702 | -0.271 | 6.07 | 278.824 | -3.00 | | 12,22 | 279.973 | -1.149 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | | Eixo | | | | | Lado Direito | | | | | | | |
|------------|-----------------------|---------------|---------|--------------|---------|---------------|---------------|---------|---------|--------|----------|--------------|------|-------|--------|------|-------|---------|--------|
| | | OFFSET | | Falso Altero | | Bordo (Pt 03) | Bordo (Pt 04) | | % | Atast | Vermelha | Falso Altero | | Atast | Cda | Alt | | | |
| | | Atast | Cda | Alt | Atast | | Atast | Cda | | | | Atast | Cda | | | | | | |
| MT-206 | | | | | | | | | | | | | | | | | | | |
| 94+0.000 | | -13.302 | 280.854 | -2.23 | -10.068 | 277.619 | 1.000 | 279.226 | 279.664 | -0.438 | 6.07 | 278.619 | 1.00 | 10.07 | 277.62 | 1.00 | 12.32 | 279.876 | -1.257 |
| 95+0.000 | | -13.336 | 280.624 | -2.27 | -10.068 | 277.355 | 1.000 | 278.962 | 279.502 | -0.539 | 6.07 | 278.355 | 1.00 | 10.07 | 277.36 | 1.00 | 12.17 | 279.458 | -1.103 |
| 96+0.000 | | -13.153 | 280.118 | -2.08 | -10.068 | 277.033 | 1.000 | 278.640 | 279.098 | -0.458 | 6.07 | 278.033 | 1.00 | 10.07 | 277.03 | 1.00 | 12.36 | 279.325 | -1.292 |
| 97+0.000 | | -13.322 | 279.907 | -2.26 | -10.068 | 276.652 | 1.000 | 278.260 | 278.676 | -0.417 | 6.07 | 277.652 | 1.00 | 10.07 | 276.65 | 1.00 | 12.54 | 279.125 | -1.473 |
| 98+0.000 | | -13.420 | 279.565 | -2.36 | -10.068 | 276.213 | 1.000 | 277.820 | 278.273 | -0.453 | 6.07 | 277.213 | 1.00 | 10.07 | 276.21 | 1.00 | 12.52 | 278.670 | -1.457 |
| 99+0.000 | | -13.660 | 279.307 | -2.59 | -10.068 | 275.715 | 1.000 | 277.322 | 277.899 | -0.577 | 6.07 | 276.715 | 1.00 | 10.07 | 275.72 | 1.00 | 12.68 | 278.330 | -1.615 |
| 100+0.000 | | -13.728 | 278.817 | -2.66 | -10.068 | 275.159 | 1.000 | 276.766 | 277.405 | -0.639 | 6.07 | 276.159 | 1.00 | 10.07 | 275.16 | 1.00 | 12.61 | 277.699 | -1.540 |
| 101+0.000 | | -13.832 | 278.308 | -2.76 | -10.068 | 274.544 | 1.000 | 276.151 | 276.791 | -0.640 | 6.07 | 275.544 | 1.00 | 10.07 | 274.54 | 1.00 | 12.82 | 277.298 | -1.754 |
| 102+0.000 | | -13.693 | 277.496 | -2.63 | -10.068 | 273.870 | 1.000 | 275.477 | 276.177 | -0.700 | 6.07 | 274.870 | 1.00 | 10.07 | 273.87 | 1.00 | 12.99 | 276.795 | -1.925 |
| 103+0.000 | | -13.922 | 276.992 | -2.85 | -10.068 | 273.138 | 1.000 | 274.745 | 275.556 | -0.810 | 6.07 | 274.138 | 1.00 | 10.07 | 273.14 | 1.00 | 13.15 | 276.223 | -2.085 |
| 104+0.000 | | -14.093 | 276.313 | -2.96 | -10.068 | 272.348 | 1.000 | 273.955 | 274.659 | -0.704 | 6.07 | 273.348 | 1.00 | 10.07 | 272.35 | 1.00 | 13.18 | 275.460 | -2.112 |
| 105+0.000 | | -13.797 | 275.258 | -2.73 | -10.068 | 271.528 | 1.000 | 273.135 | 273.662 | -0.528 | 6.07 | 272.528 | 1.00 | 10.07 | 271.53 | 1.00 | 13.10 | 274.557 | -2.029 |
| 106+0.000 | | -13.563 | 274.203 | -2.49 | -10.068 | 270.708 | 1.000 | 272.315 | 272.551 | -0.236 | 6.07 | 271.708 | 1.00 | 10.07 | 270.71 | 1.00 | 12.87 | 273.512 | -1.804 |
| 107+0.000 | | -13.220 | 273.040 | -2.15 | -10.068 | 269.888 | 1.000 | 271.495 | 271.391 | 0.104 | 6.07 | 270.888 | 1.00 | 10.07 | 269.89 | 1.00 | 12.35 | 272.168 | -1.280 |
| 108+0.000 | | -6.481 | 269.792 | 0.28 | | | | 270.675 | 269.802 | 0.873 | 6.07 | 270.068 | | | | | 6.47 | 269.798 | 0.270 |
| 109+0.000 | | -7.981 | 267.972 | 1.28 | | | | 269.248 | 267.935 | 1.919 | 6.07 | 268.641 | | | | | 8.53 | 267.607 | 1.641 |
| 110+0.000 | | -9.657 | 266.114 | 2.39 | | | | 268.506 | 266.304 | 2.809 | 6.07 | 268.506 | | | | | 11.38 | 264.965 | 3.541 |
| 111+0.000 | | -10.564 | 264.925 | 3.00 | | | | 267.922 | 265.114 | 3.415 | 6.07 | 267.922 | | | | | 13.85 | 262.735 | 5.187 |
| 112+0.000 | | -11.384 | 263.951 | 3.54 | | | | 267.495 | 264.209 | 3.893 | 6.07 | 267.495 | | | | | 15.32 | 261.327 | 6.168 |
| 113+0.000 | | -11.583 | 263.548 | 3.68 | | | | 267.225 | 264.300 | 3.532 | 6.07 | 267.225 | | | | | 15.53 | 260.919 | 6.306 |
| 114+0.000 | | -11.408 | 263.552 | 3.56 | | | | 267.113 | 264.311 | 3.409 | 6.07 | 267.113 | | | | | 11.71 | 263.352 | 3.761 |
| 115+0.000 | | -9.436 | 264.911 | 2.25 | | | | 267.157 | 264.860 | 2.904 | 6.07 | 267.157 | | | | | 9.57 | 264.825 | 2.332 |
| 116+0.000 | | -8.210 | 265.930 | 1.43 | | | | 267.359 | 266.701 | 2.265 | 6.07 | 267.359 | | | | | 7.90 | 266.134 | 2.225 |
| 117+0.000 | | -7.371 | 266.848 | 0.87 | | | | 267.717 | 266.727 | 1.597 | 6.07 | 267.717 | | | | | 6.96 | 267.125 | 0.592 |
| 118+0.000 | | -6.419 | 267.999 | 0.23 | | | | 268.233 | 267.986 | 0.855 | 6.07 | 268.233 | | | | | 6.13 | 268.298 | -0.065 |
| 119+0.000 | | -13.122 | 270.882 | -2.05 | -10.068 | 267.828 | 1.000 | 269.435 | 268.928 | 0.506 | 6.07 | 268.828 | 1.00 | 10.07 | 267.83 | 1.00 | 12.49 | 270.245 | -1.417 |
| 120+0.000 | | -13.322 | 271.676 | -2.25 | -10.068 | 268.422 | 1.000 | 270.029 | 269.708 | 0.321 | 6.07 | 269.422 | 1.00 | 10.07 | 268.42 | 1.00 | 12.72 | 271.076 | -1.654 |
| 121+0.000 | | -13.633 | 272.581 | -2.57 | -10.068 | 269.016 | 1.000 | 270.623 | 270.506 | 0.117 | 6.07 | 270.016 | 1.00 | 10.07 | 269.02 | 1.00 | 12.71 | 271.659 | -1.643 |
| 122+0.000 | | -13.705 | 273.248 | -2.64 | -10.068 | 269.611 | 1.000 | 271.218 | 271.438 | -0.220 | 6.07 | 270.611 | 1.00 | 10.07 | 269.61 | 1.00 | 12.76 | 272.301 | -1.690 |
| 123+0.000 | | -13.467 | 273.605 | -2.40 | -10.068 | 270.205 | 1.000 | 271.812 | 272.070 | -0.258 | 6.07 | 271.205 | 1.00 | 10.07 | 270.21 | 1.00 | 12.82 | 272.953 | -1.748 |
| 124+0.000 | | -13.157 | 273.889 | -2.09 | -10.068 | 270.800 | 1.000 | 272.407 | 272.540 | -0.134 | 6.07 | 271.800 | 1.00 | 10.07 | 270.80 | 1.00 | 12.78 | 273.509 | -1.709 |
| 125+0.000 | | -12.764 | 274.090 | -1.70 | -10.068 | 271.394 | 1.000 | 273.001 | 273.059 | -0.058 | 6.07 | 272.394 | 1.00 | 10.07 | 271.39 | 1.00 | 12.64 | 273.964 | -1.570 |
| 126+0.000 | | -12.979 | 274.900 | -1.91 | -10.068 | 271.989 | 1.000 | 273.596 | 273.645 | -0.050 | 6.06 | 273.054 | 1.00 | 10.06 | 272.05 | 1.00 | 12.58 | 274.577 | -1.523 |
| 126+15.821 | TS | -12.349 | 274.740 | -1.28 | -10.068 | 272.459 | 1.000 | 273.459 | 274.116 | -0.050 | 6.04 | 273.641 | 1.00 | 10.04 | 272.64 | 1.00 | 12.42 | 275.020 | -1.379 |
| 127+0.000 | | -12.354 | 274.818 | -1.24 | -10.118 | 272.582 | 1.000 | 274.190 | 274.266 | -0.076 | 6.08 | 273.796 | 1.00 | 10.08 | 272.80 | 1.00 | 12.40 | 275.112 | -1.316 |
| 128+0.000 | | -12.964 | 275.776 | -1.61 | -10.358 | 273.169 | 1.000 | 274.785 | 274.943 | -0.158 | 6.30 | 274.545 | 1.00 | 10.30 | 273.55 | 1.00 | 12.38 | 275.628 | -1.083 |
| 129+0.000 | | -13.569 | 276.542 | -1.84 | -10.624 | 273.597 | 1.000 | 275.379 | 275.213 | 0.166 | 6.52 | 275.305 | 1.00 | 10.52 | 274.31 | 1.00 | 12.39 | 276.173 | -0.868 |
| 129+5.821 | SC | -13.526 | 276.542 | -1.82 | -10.702 | 273.718 | 1.000 | 275.552 | 275.403 | 0.149 | 6.58 | 275.529 | 1.00 | 10.58 | 274.53 | 1.00 | 12.30 | 276.249 | -0.720 |
| 130+0.000 | | -13.494 | 276.932 | -1.79 | -10.702 | 274.140 | 1.000 | 275.973 | 275.684 | 0.290 | 6.58 | 275.980 | 1.00 | 10.58 | 274.95 | 1.00 | 12.08 | 276.446 | -0.496 |
| 130+19.635 | | -13.436 | 277.457 | -1.73 | -10.702 | 274.723 | 1.000 | 276.557 | 276.078 | 0.479 | 6.58 | 276.534 | 1.00 | 10.58 | 275.53 | 1.00 | 12.05 | 277.003 | -0.469 |
| 131+0.000 | | -13.442 | 277.474 | -1.74 | -10.702 | 274.734 | 1.000 | 276.734 | 276.585 | 0.483 | 6.58 | 276.545 | 1.00 | 10.58 | 275.55 | 1.00 | 12.05 | 277.012 | -0.467 |
| 132+0.000 | | -13.140 | 277.767 | -1.44 | -10.702 | 275.329 | 1.000 | 277.162 | 276.567 | 0.595 | 6.58 | 277.139 | 1.00 | 10.58 | 276.14 | 1.00 | 11.45 | 277.005 | 0.134 |
| 132+13.449 | CS | -13.102 | 278.111 | -1.40 | -10.702 | 275.710 | 1.000 | 277.544 | 277.004 | 0.540 | 6.58 | 277.521 | 1.00 | 10.58 | 276.52 | 1.00 | 10.99 | 276.927 | 0.594 |
| 133+0.000 | | -12.982 | 278.286 | -1.37 | -10.617 | 275.921 | 1.000 | 277.717 | 277.293 | 0.424 | 6.51 | 277.656 | 1.00 | 10.51 | 276.66 | 1.00 | 10.92 | 277.066 | 0.590 |
| 134+0.000 | | -12.476 | 278.624 | -1.12 | -10.360 | 276.508 | 1.000 | 278.192 | 278.587 | -0.396 | 6.28 | 278.022 | 1.00 | 10.28 | 277.02 | 1.00 | 10.77 | 277.507 | 0.515 |
| 135+0.000 | | -12.142 | 279.044 | -1.04 | -10.104 | 277.007 | 1.000 | 278.587 | 278.937 | -0.351 | 6.06 | 278.315 | 1.00 | 10.06 | 277.32 | 1.00 | 10.82 | 278.081 | 0.234 |
| 135+3.449 | ST | -12.096 | 279.120 | -1.04 | -10.060 | 277.084 | 1.000 | 278.647 | 278.992 | -0.346 | 6.02 | 278.359 | 1.00 | 10.02 | 277.36 | 1.00 | 10.95 | 278.289 | 0.070 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | | | | | | | |
|------------|-----------------------|---------------|---------|-------|---------|---------------|-------|-------|---------|---------------|---------|---------|---------------|------|---------|------|-------|--------|------|-------|---------|--------|
| | | OFFSET | | Alt | Cota | Bordo (Pt 03) | | % | Projeto | Bordo (Pt 04) | | % | Falso Alterro | | | | | | | | | |
| | | Alast | Cota | | | Alast | Cota | | | Alast | Cota | | | | | | | | | | | |
| MT-206 | | | | | | | | | | | | | | | | | | | | | | |
| 136+0.000 | | -12,070 | 279,438 | -1,02 | -10,047 | 277,416 | 1,000 | -6,05 | 278,416 | -1,01 | 278,902 | 279,233 | -0,331 | 6,03 | 278,538 | 1,00 | 10,03 | 277,54 | 1,00 | 11,76 | 279,271 | -0,733 |
| 137+0.000 | | -12,060 | 279,771 | -1,03 | -10,033 | 277,743 | 1,000 | -6,03 | 278,743 | 0,52 | 279,137 | 279,517 | -0,380 | 6,04 | 278,681 | 1,00 | 10,04 | 277,68 | 1,00 | 11,85 | 279,486 | -0,805 |
| 137+9.079 | TS | -12,101 | 279,941 | -1,07 | -10,026 | 277,866 | 1,000 | -6,13 | 278,866 | 1,21 | 279,218 | 279,648 | -0,430 | 6,05 | 278,719 | 1,00 | 10,05 | 277,72 | 1,00 | 11,87 | 279,543 | -0,824 |
| 138+0.000 | | -12,226 | 280,091 | -1,10 | -10,128 | 277,993 | 1,000 | -6,10 | 278,993 | 2,05 | 279,293 | 279,800 | -0,507 | 6,17 | 278,742 | 1,00 | 10,17 | 277,74 | 1,00 | 12,00 | 279,576 | -0,834 |
| 139+0.000 | | -12,382 | 280,238 | -1,07 | -10,314 | 278,170 | 1,000 | -6,31 | 279,170 | 3,58 | 279,369 | 279,982 | -0,613 | 6,38 | 278,715 | 1,00 | 10,38 | 277,72 | 1,00 | 12,43 | 279,764 | -1,049 |
| 140+0.000 | | -12,524 | 280,294 | -1,02 | -10,501 | 278,272 | 1,000 | -6,50 | 279,272 | 5,11 | 279,365 | 279,900 | -0,535 | 6,60 | 278,603 | 1,00 | 10,60 | 277,60 | 1,00 | 12,71 | 279,711 | -1,108 |
| 140+9.079 | SC | -12,767 | 280,475 | -1,18 | -10,586 | 278,294 | 1,000 | -6,59 | 279,294 | 5,80 | 279,337 | 279,839 | -0,503 | 6,70 | 278,523 | 1,00 | 10,70 | 277,52 | 1,00 | 12,68 | 279,502 | -0,927 |
| 141+0.000 | | -12,487 | 280,138 | -0,90 | -10,586 | 278,238 | 1,000 | -6,59 | 279,238 | 5,80 | 279,281 | 279,752 | -0,471 | 6,70 | 278,467 | 1,00 | 10,70 | 277,47 | 1,00 | 12,63 | 279,394 | -0,927 |
| 142+0.000 | | -12,535 | 280,023 | -0,95 | -10,586 | 278,074 | 1,000 | -6,59 | 279,074 | 5,80 | 279,117 | 279,419 | -0,301 | 6,70 | 278,304 | 1,00 | 10,70 | 277,30 | 1,00 | 12,19 | 278,797 | -0,493 |
| 142+0.784 | | -7,262 | 279,742 | -0,68 | | | | -6,59 | 279,066 | 5,80 | 279,109 | 279,419 | -0,310 | 6,70 | 278,296 | 1,00 | | | | 7,46 | 279,060 | -0,764 |
| 143+0.000 | | -6,934 | 279,178 | -0,35 | | | | -6,59 | 278,831 | 5,80 | 278,874 | 278,528 | 0,347 | 6,70 | 277,868 | 1,00 | | | | 8,44 | 276,900 | 1,161 |
| 143+12.488 | CS | -6,716 | 278,553 | 0,09 | | | | -6,59 | 278,639 | 5,80 | 278,682 | 277,794 | 0,888 | 6,70 | 277,868 | 1,00 | | | | 8,69 | 276,544 | 1,324 |
| 144+0.000 | | -6,616 | 278,392 | 0,07 | | | | -6,52 | 278,458 | 5,09 | 278,551 | 277,392 | 1,159 | 6,62 | 277,789 | 1,00 | | | | 8,83 | 276,312 | 1,477 |
| 145+0.000 | | -7,369 | 277,236 | 0,69 | | | | -6,33 | 277,926 | 3,21 | 278,148 | 276,665 | 1,483 | 6,40 | 277,518 | 1,00 | | | | 9,26 | 275,610 | 1,908 |
| 146+0.000 | | -8,287 | 275,897 | 1,43 | | | | -6,15 | 277,322 | 1,32 | 277,666 | 275,824 | 1,842 | 6,18 | 277,159 | 1,00 | | | | 10,52 | 274,262 | 2,897 |
| 146+12.488 | ST | -9,077 | 274,880 | 2,03 | | | | -6,04 | 276,907 | 0,14 | 277,324 | 274,681 | 2,642 | 6,04 | 276,890 | 1,00 | | | | 11,41 | 273,307 | 3,583 |
| 147+0.000 | | -9,746 | 274,175 | 2,47 | | | | -6,04 | 276,644 | -0,57 | 277,103 | 273,974 | 3,129 | 6,03 | 276,712 | 1,00 | | | | 11,87 | 272,820 | 3,892 |
| 147+18.822 | TS | -8,962 | 274,000 | 1,93 | | | | -6,06 | 275,934 | -2,34 | 276,501 | 273,160 | 3,341 | 6,02 | 276,217 | 1,00 | | | | 12,25 | 272,064 | 4,153 |
| 148+0.000 | | -8,873 | 274,020 | 1,87 | | | | -6,07 | 275,887 | -2,45 | 276,461 | 273,204 | 3,257 | 6,03 | 276,184 | 1,00 | | | | 12,26 | 272,026 | 4,158 |
| 149+0.000 | | -7,133 | 274,481 | 0,56 | | | | -6,29 | 275,041 | -4,34 | 275,739 | 273,903 | 1,835 | 6,21 | 275,583 | 1,00 | | | | 12,00 | 271,724 | 3,859 |
| 150+0.000 | | -6,771 | 274,362 | -0,26 | | | | -6,52 | 274,106 | -6,22 | 274,937 | 273,950 | 0,987 | 6,40 | 274,910 | 1,00 | | | | 10,81 | 271,969 | 2,941 |
| 150+18.822 | SC | -7,762 | 274,184 | -1,04 | | | | -6,72 | 273,147 | -8,00 | 274,109 | 273,798 | 0,311 | 6,57 | 274,210 | 1,00 | | | | 7,90 | 273,325 | 0,885 |
| 151+0.000 | | -7,760 | 274,128 | -1,04 | | | | -6,72 | 273,092 | -8,00 | 274,055 | 273,766 | 0,289 | 6,57 | 274,156 | 1,00 | | | | 7,81 | 273,326 | 0,830 |
| 152+0.000 | | -8,064 | 273,470 | -1,34 | | | | -6,72 | 272,131 | -8,00 | 273,094 | 273,199 | -0,105 | 6,57 | 273,195 | 1,00 | | | | 7,11 | 272,832 | 0,363 |
| 152+15.058 | | -8,225 | 272,877 | -1,50 | | | | -6,72 | 271,377 | -8,00 | 272,340 | 272,361 | -0,021 | 6,57 | 272,441 | 1,00 | | | | 8,11 | 271,413 | 1,028 |
| 153+0.000 | | -8,262 | 272,667 | -1,54 | | | | -6,72 | 271,130 | -8,00 | 272,093 | 272,096 | -0,004 | 6,57 | 272,193 | 1,00 | | | | 8,19 | 271,111 | 1,082 |
| 154+0.000 | | -8,408 | 271,812 | -1,68 | | | | -6,72 | 270,128 | -8,00 | 271,091 | 270,300 | 0,792 | 6,57 | 271,192 | 1,00 | | | | 7,17 | 270,791 | 0,401 |
| 154+11.294 | CS | -8,411 | 271,249 | -1,69 | | | | -6,72 | 269,563 | -8,00 | 270,526 | 269,764 | 0,762 | 6,57 | 270,627 | 1,00 | | | | 7,10 | 270,272 | 0,355 |
| 155+0.000 | | -8,075 | 270,664 | -1,45 | | | | -6,62 | 269,212 | -6,84 | 270,090 | 269,335 | 0,755 | 6,49 | 270,109 | 1,00 | | | | 6,74 | 270,360 | -0,251 |
| 156+0.000 | | -7,679 | 269,683 | -1,29 | | | | -6,39 | 268,397 | -4,17 | 269,089 | 268,394 | 0,695 | 6,31 | 268,927 | 1,00 | | | | 7,01 | 269,626 | -0,699 |
| 157+0.000 | | -7,672 | 268,969 | -1,49 | | | | -6,18 | 267,477 | -3,00 | 268,088 | 267,773 | 0,314 | 6,14 | 267,755 | 1,00 | | | | 6,68 | 268,302 | -0,547 |
| 157+11.294 | ST | -7,696 | 268,544 | -1,63 | | | | -6,07 | 266,915 | -3,00 | 267,522 | 267,454 | 0,068 | 6,04 | 267,097 | 1,00 | | | | 6,65 | 267,708 | -0,611 |
| 158+0.000 | | -7,779 | 268,191 | -1,71 | | | | -6,07 | 266,479 | -3,00 | 267,086 | 266,684 | 0,402 | 6,05 | 266,591 | 1,00 | | | | 6,33 | 266,870 | -0,279 |
| 159+0.000 | | -7,052 | 266,462 | -0,98 | | | | -6,07 | 265,478 | -3,00 | 266,085 | 265,398 | 0,687 | 6,07 | 265,478 | 1,00 | | | | 6,34 | 265,298 | 0,180 |
| 160+0.000 | | -6,466 | 264,875 | -0,40 | | | | -6,07 | 264,477 | -3,00 | 265,084 | 264,517 | 0,567 | 6,07 | 264,477 | 1,00 | | | | 6,25 | 264,660 | -0,183 |
| 161+0.000 | | -6,955 | 264,363 | -0,89 | | | | -6,07 | 263,475 | -3,00 | 264,082 | 263,268 | 0,815 | 6,07 | 263,475 | 1,00 | | | | 6,36 | 263,278 | 0,197 |
| 162+0.000 | | -6,707 | 263,113 | -0,64 | | | | -6,07 | 262,474 | -3,00 | 263,081 | 261,834 | 1,247 | 6,07 | 262,474 | 1,00 | | | | 6,43 | 262,831 | -0,357 |
| 163+0.000 | | -6,294 | 261,700 | -0,23 | | | | -6,07 | 261,473 | -3,00 | 262,080 | 260,852 | 1,228 | 6,07 | 261,473 | 1,00 | | | | 6,08 | 261,462 | 0,011 |
| 164+0.000 | | -6,438 | 260,238 | 0,25 | | | | -6,07 | 260,485 | -3,00 | 261,092 | 259,816 | 1,276 | 6,07 | 260,485 | 1,00 | | | | 6,20 | 260,616 | -0,131 |
| 165+0.000 | | -6,550 | 259,269 | 0,32 | | | | -6,07 | 259,591 | -3,00 | 260,198 | 258,558 | 1,641 | 6,07 | 259,591 | 1,00 | | | | 6,22 | 259,740 | -0,149 |
| 166+0.000 | | -6,390 | 258,590 | 0,21 | | | | -6,07 | 258,804 | -3,00 | 259,412 | 257,288 | 2,123 | 6,07 | 258,804 | 1,00 | | | | 6,49 | 258,526 | 0,278 |
| 167+0.000 | | -7,125 | 257,420 | 0,70 | | | | -6,07 | 258,125 | -3,00 | 258,732 | 256,362 | 2,371 | 6,07 | 258,125 | 1,00 | | | | 7,36 | 257,265 | 0,860 |
| 168+0.000 | | -8,182 | 256,144 | 1,41 | | | | -6,07 | 257,553 | -3,00 | 258,160 | 255,732 | 2,428 | 6,07 | 257,553 | 1,00 | | | | 8,23 | 256,112 | 1,441 |
| 169+0.000 | | -8,187 | 255,676 | 1,41 | | | | -6,07 | 257,089 | -3,00 | 257,696 | 255,881 | 1,814 | 6,07 | 257,089 | 1,00 | | | | 8,42 | 255,520 | 1,569 |
| 170+0.000 | | -9,145 | 254,680 | 2,05 | | | | -6,07 | 256,732 | -3,00 | 257,339 | 254,833 | 2,505 | 6,07 | 256,732 | 1,00 | | | | 10,11 | 254,039 | 2,693 |
| 171+0.000 | | -8,461 | 254,886 | 1,60 | | | | -6,07 | 256,482 | -3,00 | 257,089 | 254,762 | 2,327 | 6,07 | 256,482 | 1,00 | | | | 8,72 | 254,717 | 1,765 |
| 172+0.000 | | -7,847 | 255,153 | 1,19 | | | | -6,07 | 256,339 | -3,00 | 256,946 | 254,655 | 2,292 | 6,07 | 256,339 | 1,00 | | | | 7,77 | 255,208 | 1,131 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | | | | | | |
|-----------|-----------------------|---------------|---------|---------------|---------|---------|-------|--------------|---------|--------------|---------|--------------|------|---------|-------|-------|--------|-------|---------|---------|--------|
| | | Falso Alento | | Bordo (Pt 03) | | Cota | | Falso Alento | | Bordo (Pt04) | | Falso Alento | | | | | | | | | |
| | | Altst | Cota | Alt | Altst | Cota | % | Projeto | Terreno | Vermelha | Altst | Cota | % | Alt | Altst | Cota | Alt | Altst | | | |
| MT-206 | | | | | | | | | | | | | | | | | | | | | |
| 173+0.000 | | -7,104 | 255,613 | 0,69 | | | -6,07 | 256,304 | -3,00 | 256,911 | 255,187 | 1,724 | 6,07 | 256,304 | -3,00 | | | 6,73 | 255,863 | 0,441 | |
| 174+0.000 | | -6,214 | 256,279 | 0,10 | | | -6,07 | 256,376 | -3,00 | 256,983 | 255,668 | 1,316 | 6,07 | 256,376 | -3,00 | | | 6,19 | 256,499 | -0,123 | |
| 176+0.000 | | -13,200 | 258,975 | -2,13 | -10,068 | 255,843 | -6,07 | 256,843 | -3,00 | 257,450 | 256,806 | 0,643 | 6,07 | 256,843 | -3,00 | 10,07 | 255,84 | 1,00 | 11,36 | 257,133 | -0,290 |
| 177+0.000 | | -13,463 | 259,619 | -2,40 | -10,068 | 256,223 | -6,07 | 257,223 | -3,00 | 257,830 | 257,616 | 0,214 | 6,07 | 257,223 | -3,00 | 10,07 | 256,22 | 1,00 | 11,70 | 257,858 | -0,635 |
| 178+0.000 | | -13,474 | 260,024 | -2,41 | -10,068 | 256,618 | -6,07 | 257,618 | -3,00 | 258,225 | 257,975 | 0,250 | 6,07 | 257,618 | -3,00 | 10,07 | 256,62 | 1,00 | 11,78 | 258,334 | -0,716 |
| 179+0.000 | | -13,151 | 260,095 | -2,08 | -10,068 | 257,012 | -6,07 | 258,012 | -3,00 | 258,619 | 258,326 | 0,293 | 6,07 | 258,012 | -3,00 | 10,07 | 257,01 | 1,00 | 11,55 | 258,493 | -0,481 |
| 180+0.000 | | -13,079 | 260,418 | -2,01 | -10,068 | 257,406 | -6,07 | 258,406 | -3,00 | 259,013 | 258,551 | 0,463 | 6,07 | 258,406 | -3,00 | 10,07 | 257,41 | 1,00 | 11,34 | 258,673 | -0,267 |
| 181+0.000 | | -13,135 | 260,868 | -2,07 | -10,068 | 257,800 | -6,07 | 258,800 | -3,00 | 259,407 | 259,170 | 0,237 | 6,07 | 258,800 | -3,00 | 10,07 | 257,80 | 1,00 | 11,51 | 259,242 | -0,442 |
| 182+0.000 | | -13,058 | 261,185 | -1,99 | -10,068 | 258,195 | -6,07 | 259,195 | -3,00 | 259,802 | 259,775 | 0,027 | 6,07 | 259,195 | -3,00 | 10,07 | 258,20 | 1,00 | 11,76 | 259,883 | -0,688 |
| 183+0.000 | | -13,172 | 261,694 | -2,11 | -10,068 | 258,589 | -6,07 | 259,589 | -3,00 | 260,196 | 260,433 | -0,237 | 6,07 | 259,589 | -3,00 | 10,07 | 258,59 | 1,00 | 11,86 | 260,385 | -0,796 |
| 184+0.000 | | -12,917 | 261,932 | -1,85 | -10,068 | 258,983 | -6,07 | 259,983 | -3,00 | 260,590 | 260,395 | 0,195 | 6,07 | 259,983 | -3,00 | 10,07 | 258,98 | 1,00 | 11,39 | 260,306 | -0,323 |
| 186+0.000 | | -12,749 | 262,302 | -1,68 | -10,068 | 259,621 | -6,07 | 260,621 | -3,00 | 261,228 | 260,853 | 0,375 | 6,07 | 260,621 | -3,00 | 10,07 | 259,62 | 1,00 | 11,11 | 260,660 | -0,039 |
| 187+0.000 | | -12,468 | 262,228 | -1,40 | -10,068 | 259,827 | -6,07 | 260,827 | -3,00 | 261,434 | 261,250 | 0,184 | 6,07 | 260,827 | -3,00 | 10,07 | 259,83 | 1,00 | 11,37 | 261,128 | -0,301 |
| 188+0.000 | | -12,424 | 262,314 | -1,36 | -10,068 | 259,958 | -6,07 | 260,958 | -3,00 | 261,565 | 261,486 | 0,079 | 6,07 | 260,958 | -3,00 | 10,07 | 259,96 | 1,00 | 11,50 | 261,390 | -0,432 |
| 189+0.000 | | -12,305 | 262,251 | -1,24 | -10,068 | 260,013 | -6,07 | 261,013 | -3,00 | 261,620 | 261,489 | 0,131 | 6,07 | 261,013 | -3,00 | 10,07 | 260,01 | 1,00 | 11,51 | 261,460 | -0,447 |
| 190+0.000 | | -12,381 | 262,308 | -1,31 | -10,068 | 259,994 | -6,07 | 260,994 | -3,00 | 261,601 | 261,360 | 0,241 | 6,07 | 260,994 | -3,00 | 10,07 | 259,99 | 1,00 | 11,55 | 261,475 | -0,481 |
| 191+0.000 | | -12,299 | 262,131 | -1,23 | -10,068 | 259,899 | -6,07 | 260,899 | -3,00 | 261,506 | 261,336 | 0,170 | 6,07 | 260,899 | -3,00 | 10,07 | 259,90 | 1,00 | 11,78 | 261,608 | -0,709 |
| 192+0.000 | | -12,429 | 262,128 | -1,36 | -10,068 | 259,766 | -6,07 | 260,766 | -3,00 | 261,373 | 261,248 | 0,125 | 6,07 | 260,766 | -3,00 | 10,07 | 259,77 | 1,00 | 11,73 | 261,432 | -0,666 |
| 193+0.000 | | -12,254 | 261,821 | -1,19 | -10,068 | 259,634 | -6,07 | 260,634 | -3,00 | 261,241 | 261,051 | 0,190 | 6,07 | 260,634 | -3,00 | 10,07 | 259,63 | 1,00 | 11,46 | 261,028 | -0,394 |
| 194+0.000 | | -12,723 | 262,157 | -1,66 | -10,068 | 259,501 | -6,07 | 260,501 | -3,00 | 261,108 | 261,044 | 0,065 | 6,07 | 260,501 | -3,00 | 10,07 | 259,50 | 1,00 | 11,79 | 261,222 | -0,721 |
| 195+0.000 | | -12,713 | 262,015 | -1,65 | -10,068 | 259,369 | -6,07 | 260,369 | -3,00 | 260,976 | 260,742 | 0,266 | 6,07 | 260,369 | -3,00 | 10,07 | 259,37 | 1,00 | 11,86 | 261,165 | -0,796 |
| 196+0.000 | | -12,719 | 261,888 | -1,65 | -10,068 | 259,236 | -6,07 | 260,236 | -3,00 | 260,844 | 260,742 | 0,101 | 6,07 | 260,236 | -3,00 | 10,07 | 259,24 | 1,00 | 11,79 | 260,957 | -0,721 |
| 197+0.000 | | -12,651 | 261,688 | -1,58 | -10,068 | 259,104 | -6,07 | 260,104 | -3,00 | 260,711 | 260,359 | 0,352 | 6,07 | 260,104 | -3,00 | 10,07 | 259,10 | 1,00 | 11,94 | 260,979 | -0,875 |
| 198+0.000 | | -12,693 | 261,597 | -1,63 | -10,068 | 258,971 | -6,07 | 259,971 | -3,00 | 260,579 | 260,037 | 0,542 | 6,07 | 259,971 | -3,00 | 10,07 | 258,97 | 1,00 | 11,75 | 260,651 | -0,680 |
| 199+0.000 | | -12,616 | 261,388 | -1,55 | -10,068 | 258,839 | -6,07 | 259,839 | -3,00 | 260,446 | 259,607 | 0,839 | 6,07 | 259,839 | -3,00 | 10,07 | 258,84 | 1,00 | 11,92 | 260,689 | -0,850 |
| 200+0.000 | | -6,389 | 259,492 | 0,21 | | | -6,07 | 259,706 | -3,00 | 260,314 | 258,931 | 1,382 | 6,07 | 259,706 | -3,00 | | | | 6,66 | 259,309 | 0,397 |
| 201+0.000 | | -8,167 | 258,174 | 1,40 | | | -6,07 | 259,574 | -3,00 | 260,181 | 257,598 | 2,583 | 6,07 | 259,574 | -3,00 | | | | 7,92 | 258,339 | 1,235 |
| 202+0.000 | | -9,415 | 257,210 | 2,23 | | | -6,07 | 259,441 | -3,00 | 260,049 | 256,437 | 3,612 | 6,07 | 259,441 | -3,00 | | | | 9,82 | 256,943 | 2,498 |
| 203+0.000 | | -10,359 | 256,448 | 2,86 | | | -6,07 | 259,309 | -3,00 | 259,916 | 256,153 | 3,763 | 6,07 | 259,309 | -3,00 | | | | 10,24 | 256,527 | 2,782 |
| 204+0.000 | | -10,217 | 256,410 | 2,77 | | | -6,07 | 259,177 | -3,00 | 259,784 | 256,242 | 3,542 | 6,07 | 259,177 | -3,00 | | | | 9,84 | 256,663 | 2,514 |
| 205+0.000 | | -10,163 | 256,314 | 2,73 | | | -6,07 | 259,044 | -3,00 | 259,651 | 256,365 | 3,286 | 6,07 | 259,044 | -3,00 | | | | 8,92 | 257,141 | 1,903 |
| 206+0.000 | | -8,722 | 257,142 | 1,77 | | | -6,07 | 258,912 | -3,00 | 259,519 | 256,722 | 2,796 | 6,07 | 258,912 | -3,00 | | | | 7,86 | 257,719 | 1,193 |
| 207+0.000 | | -8,071 | 257,443 | 1,34 | | | -6,07 | 258,779 | -3,00 | 259,386 | 256,890 | 2,496 | 6,07 | 258,779 | -3,00 | | | | 6,53 | 258,472 | 0,307 |
| 208+0.000 | | -7,047 | 257,994 | 0,65 | | | -6,07 | 258,647 | -3,00 | 259,254 | 257,243 | 2,010 | 6,07 | 258,647 | -3,00 | | | | 6,39 | 258,432 | 0,215 |
| 209+0.000 | | -6,197 | 258,644 | -0,13 | | | -6,07 | 258,514 | -3,00 | 259,121 | 257,851 | 1,270 | 6,07 | 258,514 | -3,00 | | | | 6,17 | 258,448 | 0,066 |
| 210+0.000 | | -6,143 | 258,331 | 0,05 | | | -6,07 | 258,382 | -3,00 | 258,989 | 258,238 | 0,751 | 6,07 | 258,382 | -3,00 | | | | 6,41 | 258,722 | -0,340 |
| 211+0.000 | | -6,164 | 258,346 | -0,10 | | | -6,07 | 258,249 | -3,00 | 258,856 | 258,544 | 0,312 | 6,07 | 258,249 | -3,00 | | | | 7,45 | 259,629 | -1,380 |
| 212+0.000 | | -6,837 | 258,886 | -0,77 | | | -6,07 | 258,117 | -3,00 | 258,724 | 258,297 | 0,426 | 6,07 | 258,117 | -3,00 | | | | 7,91 | 259,958 | -1,841 |
| 213+0.000 | | -7,354 | 259,270 | -1,29 | | | -6,07 | 257,984 | -3,00 | 258,591 | 258,358 | 0,233 | 6,07 | 257,984 | -3,00 | | | | 8,31 | 260,226 | -2,242 |
| 214+0.000 | | -7,262 | 259,046 | -1,19 | | | -6,07 | 257,852 | -3,00 | 258,459 | 258,803 | -0,344 | 6,07 | 257,852 | -3,00 | | | | 8,26 | 260,046 | -2,194 |
| 215+0.000 | | -7,174 | 258,825 | -1,11 | | | -6,07 | 257,719 | -3,00 | 258,326 | 258,718 | -0,392 | 6,07 | 257,719 | -3,00 | | | | 8,23 | 259,878 | -2,159 |
| 216+0.000 | | -7,467 | 258,986 | -1,40 | | | -6,07 | 257,587 | -3,00 | 258,194 | 258,471 | -0,278 | 6,07 | 257,587 | -3,00 | | | | 8,21 | 259,724 | -2,137 |
| 217+0.000 | | -7,581 | 258,952 | -1,51 | | | -6,07 | 257,438 | -3,00 | 258,045 | 258,466 | -0,421 | 6,07 | 257,438 | -3,00 | | | | 8,18 | 259,546 | -2,108 |
| 218+0.000 | | -7,329 | 258,440 | -1,26 | | | -6,07 | 257,178 | -3,00 | 257,785 | 258,119 | -0,333 | 6,07 | 257,178 | -3,00 | | | | 8,18 | 259,286 | -2,108 |
| 219+0.000 | | -7,117 | 257,841 | -1,05 | | | -6,07 | 256,792 | -3,00 | 257,399 | 257,806 | -0,408 | 6,07 | 256,792 | -3,00 | | | | 8,24 | 258,967 | -2,175 |
| 220+0.000 | | -7,075 | 257,285 | -1,01 | | | -6,07 | 256,277 | -3,00 | 256,884 | 257,277 | -0,392 | 6,07 | 256,277 | -3,00 | | | | 8,28 | 258,488 | -2,211 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | | |
|------------|-----------------------|---------------|---------|---------------|-------|---------|-------|----------|---------|--------------|------|---------------|-------|------|-------|---------|--------|
| | | Falso Alente | | Bordo (Pl 03) | | Cota | | Vermelha | | Falso Alente | | Bordo (Pl 04) | | | | | |
| | | Altst | Cota | Alt | Altst | Cota | % | Projeto | Terreno | Altst | Cota | % | Altst | Cota | Alt | | |
| MT-206 | | | | | | | | | | | | | | | | | |
| 221+0.000 | | -7,601 | 257,169 | -1,53 | -6,07 | 255,636 | -3,00 | 256,243 | 256,598 | -0,355 | 6,07 | 255,636 | -3,00 | | 8,48 | 258,047 | -2,411 |
| 222+0.000 | | -8,319 | 257,119 | -2,25 | -6,07 | 254,868 | -3,00 | 255,475 | 255,867 | -0,392 | 6,07 | 254,868 | -3,00 | | 8,69 | 257,491 | -2,623 |
| 223+0.000 | | -8,340 | 256,244 | -2,27 | -6,07 | 253,972 | -3,00 | 254,579 | 255,090 | -0,511 | 6,07 | 253,972 | -3,00 | | 8,77 | 256,673 | -2,701 |
| 224+0.000 | | -8,084 | 254,966 | -2,02 | -6,07 | 252,949 | -3,00 | 253,556 | 253,876 | -0,320 | 6,07 | 252,949 | -3,00 | | 8,47 | 255,348 | -2,399 |
| 225+0.000 | | -6,961 | 252,708 | -0,89 | -6,07 | 251,815 | -3,00 | 252,422 | 252,385 | 0,037 | 6,07 | 251,815 | -3,00 | | 7,64 | 253,389 | -1,574 |
| 226+0.000 | | -6,706 | 251,304 | -0,64 | -6,07 | 250,665 | -3,00 | 251,272 | 251,082 | 0,190 | 6,07 | 250,665 | -3,00 | | 7,48 | 252,075 | -1,410 |
| 227+0.000 | | -7,130 | 248,807 | 0,71 | -6,07 | 249,515 | -3,00 | 250,122 | 248,724 | 1,398 | 6,07 | 249,515 | -3,00 | | 6,26 | 249,711 | -0,196 |
| 228+0.000 | | -8,247 | 246,912 | 1,45 | -6,07 | 248,365 | -3,00 | 248,972 | 246,804 | 2,168 | 6,07 | 248,365 | -3,00 | | 6,79 | 247,884 | 0,481 |
| 229+0.000 | | -8,123 | 245,844 | 1,37 | -6,07 | 247,215 | -3,00 | 247,822 | 245,460 | 2,362 | 6,07 | 247,215 | -3,00 | | 6,94 | 246,634 | 0,581 |
| 230+0.000 | | -7,971 | 244,795 | 1,27 | -6,07 | 246,065 | -3,00 | 246,672 | 244,350 | 2,322 | 6,07 | 246,065 | -3,00 | | 7,21 | 245,302 | 0,763 |
| 231+0.000 | | -7,475 | 244,062 | 0,94 | -6,07 | 245,000 | -3,00 | 245,607 | 243,792 | 1,815 | 6,07 | 245,000 | -3,00 | | 7,89 | 243,788 | 1,212 |
| 232+0.000 | | -7,417 | 243,207 | 0,90 | -6,07 | 244,107 | -3,00 | 244,714 | 243,136 | 1,579 | 6,07 | 244,107 | -3,00 | | 7,44 | 243,192 | 0,915 |
| 233+0.000 | | -10,547 | 240,400 | 2,99 | -6,07 | 243,386 | -3,00 | 243,993 | 240,458 | 3,534 | 6,07 | 243,386 | -3,00 | | 10,26 | 240,592 | 2,794 |
| 234+0.000 | | -9,224 | 240,732 | 2,10 | -6,07 | 242,836 | -3,00 | 243,443 | 242,414 | 1,029 | 6,07 | 242,836 | -3,00 | | 8,45 | 241,247 | 1,589 |
| 235+0.000 | | -8,415 | 240,892 | 1,57 | -6,07 | 242,457 | -3,00 | 243,064 | 241,793 | 1,271 | 6,07 | 242,457 | -3,00 | | 7,64 | 241,410 | 1,047 |
| 236+0.000 | | -8,104 | 240,851 | 1,36 | -6,07 | 242,208 | -3,00 | 242,815 | 241,447 | 1,368 | 6,07 | 242,208 | -3,00 | | 7,21 | 241,450 | 0,758 |
| 237+0.000 | | -7,984 | 240,769 | 1,28 | -6,07 | 242,046 | -3,00 | 242,653 | 241,359 | 1,294 | 6,07 | 242,046 | -3,00 | | 7,05 | 241,393 | 0,653 |
| 238+0.000 | | -7,888 | 240,759 | 1,21 | -6,07 | 241,972 | -3,00 | 242,579 | 241,496 | 1,083 | 6,06 | 241,994 | -2,64 | | 6,67 | 241,592 | 0,402 |
| 238+17,294 | TS | -7,781 | 240,837 | 1,14 | -6,07 | 241,979 | -3,00 | 242,586 | 241,698 | 0,888 | 6,04 | 242,161 | 0,00 | | 6,74 | 241,690 | 0,471 |
| 239+0.000 | | -7,792 | 240,862 | 1,12 | -6,11 | 241,984 | -3,00 | 242,593 | 241,676 | 0,916 | 6,07 | 242,193 | 0,41 | | 6,77 | 241,731 | 0,462 |
| 240+0.000 | | -8,601 | 240,588 | 1,46 | -6,41 | 242,046 | -3,46 | 242,693 | 241,938 | 0,756 | 6,35 | 242,488 | 3,46 | | 7,28 | 241,866 | 0,622 |
| 240+17,294 | SC | -8,650 | 240,718 | 1,30 | -6,70 | 242,017 | -6,10 | 242,851 | 242,098 | 0,753 | 6,58 | 242,828 | 6,10 | | 8,48 | 241,565 | 1,263 |
| 241+0.000 | | -8,543 | 240,820 | 1,23 | -6,70 | 242,048 | -6,10 | 242,882 | 242,096 | 0,785 | 6,58 | 242,858 | 6,10 | | 8,62 | 241,499 | 1,359 |
| 241+12,673 | | -7,322 | 241,799 | 0,41 | -6,70 | 242,212 | -6,10 | 243,046 | 242,080 | 0,966 | 6,58 | 243,023 | 6,10 | | 9,41 | 241,136 | 1,887 |
| 242+0.000 | | -7,219 | 241,978 | 0,34 | -6,70 | 242,323 | -6,10 | 243,157 | 242,101 | 1,056 | 6,58 | 243,134 | 6,10 | | 9,36 | 241,283 | 1,851 |
| 242+8,053 | CS | -7,214 | 242,110 | 0,34 | -6,70 | 242,452 | -6,10 | 243,286 | 242,136 | 1,150 | 6,58 | 243,263 | 6,10 | | 9,30 | 241,450 | 1,813 |
| 243+0.000 | | -6,911 | 242,501 | 0,27 | -6,50 | 242,774 | -4,28 | 243,477 | 242,250 | 1,227 | 6,42 | 243,326 | 4,28 | | 9,46 | 241,297 | 2,029 |
| 244+0.000 | | -6,422 | 243,030 | 0,16 | -6,19 | 243,185 | -3,00 | 243,796 | 242,740 | 1,057 | 6,15 | 243,447 | 1,23 | | 8,71 | 241,738 | 1,709 |
| 244+8,053 | ST | -6,791 | 242,836 | 0,48 | -6,07 | 243,318 | -3,00 | 243,925 | 242,789 | 1,135 | 6,04 | 243,500 | 0,00 | | 8,37 | 241,947 | 1,553 |
| 245+0.000 | | -7,044 | 242,858 | 0,65 | -6,07 | 243,509 | -3,00 | 244,116 | 242,972 | 1,144 | 6,06 | 243,580 | -1,82 | | 7,84 | 242,390 | 1,190 |
| 246+0.000 | | -7,303 | 243,004 | 0,82 | -6,07 | 243,828 | -3,00 | 244,435 | 243,381 | 1,054 | 6,07 | 243,828 | -3,00 | | 6,62 | 243,463 | 0,365 |
| 246+19,261 | TS | -6,793 | 243,814 | 0,50 | -6,04 | 244,318 | 0,00 | 244,743 | 243,806 | 0,937 | 6,07 | 244,136 | -3,00 | | 6,60 | 243,780 | 0,356 |
| 247+0.000 | | -6,791 | 243,840 | 0,50 | -6,04 | 244,338 | 0,14 | 244,754 | 243,809 | 0,945 | 6,08 | 244,147 | -3,00 | | 6,62 | 243,781 | 0,366 |
| 248+0.000 | | -7,360 | 244,126 | 0,77 | -6,21 | 244,894 | 3,94 | 245,074 | 243,912 | 1,162 | 6,29 | 244,401 | -3,94 | | 6,91 | 243,987 | 0,414 |
| 248+19,261 | SC | -7,318 | 244,810 | 0,63 | -6,37 | 245,441 | 7,60 | 245,382 | 244,289 | 1,093 | 6,52 | 244,461 | -7,60 | | 7,01 | 244,132 | 0,329 |
| 249+0.000 | | -7,295 | 244,838 | 0,62 | -6,37 | 245,453 | 7,60 | 245,393 | 244,308 | 1,086 | 6,52 | 244,473 | -7,60 | | 7,02 | 244,139 | 0,334 |
| 249+9,963 | | -7,319 | 244,981 | 0,63 | -6,37 | 245,612 | 7,60 | 245,553 | 244,341 | 1,212 | 6,52 | 244,632 | -7,60 | | 7,02 | 244,298 | 0,334 |
| 250+0.000 | | -7,975 | 244,704 | 1,07 | -6,37 | 245,772 | 7,60 | 245,713 | 244,184 | 1,529 | 6,52 | 244,792 | -7,60 | | 7,06 | 244,431 | 0,361 |
| 250+0,665 | CS | -7,992 | 244,703 | 1,08 | -6,37 | 245,783 | 7,60 | 245,723 | 244,197 | 1,526 | 6,52 | 244,803 | -7,60 | | 7,07 | 244,439 | 0,364 |
| 251+0.000 | | -7,234 | 245,168 | 0,68 | -6,21 | 245,851 | 3,93 | 246,032 | 244,771 | 1,261 | 6,28 | 245,361 | -3,93 | | 7,25 | 244,716 | 0,645 |
| 252+0.000 | | -6,779 | 245,444 | 0,49 | -6,04 | 245,934 | 0,13 | 246,352 | 244,983 | 1,369 | 6,07 | 245,744 | -3,00 | | 7,20 | 244,993 | 0,751 |
| 252+0,665 | ST | -6,764 | 245,453 | 0,48 | -6,04 | 245,937 | 0,00 | 246,362 | 244,988 | 1,375 | 6,07 | 245,755 | -3,00 | | 7,20 | 245,001 | 0,754 |
| 253+0.000 | | -6,144 | 246,013 | 0,05 | -6,07 | 246,064 | -3,00 | 246,671 | 245,485 | 1,186 | 6,07 | 246,067 | -2,96 | | 6,65 | 245,680 | 0,387 |
| 254+0.000 | | -6,653 | 246,970 | -0,59 | -6,07 | 246,384 | -3,00 | 246,991 | 246,337 | 0,653 | 6,07 | 246,400 | -2,72 | | 6,25 | 246,276 | 0,124 |
| 255+0.000 | | -6,361 | 246,997 | -0,29 | -6,07 | 246,703 | -3,00 | 247,310 | 246,736 | 0,574 | 6,06 | 246,734 | -2,49 | | 6,25 | 246,608 | 0,126 |
| 256+0.000 | | -6,565 | 247,521 | -0,50 | -6,07 | 247,023 | -3,00 | 247,629 | 247,045 | 0,584 | 6,06 | 247,068 | -2,25 | | 6,26 | 246,937 | 0,131 |
| 257+0.000 | | -6,745 | 248,020 | -0,68 | -6,07 | 247,342 | -3,00 | 247,949 | 247,572 | 0,376 | 6,06 | 247,402 | -2,02 | | 6,14 | 247,350 | 0,052 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontales | Lado Esquerdo | | | | | Exo | | | | | Lado Derecho | | | | | | | | |
|------------|------------------------|---------------|---------|--------|---------------|--------|---------|-------|----------|-------------|----------|--------------|--------------|-------|-------------|--------|------|--------|---------|--------|
| | | Falso Alero | | | Bordo (Pt 03) | | Cota | | | Falso Alero | | | Bordo (Pt04) | | Falso Alero | | | | | |
| | | Alfist | Cota | Offset | Alt | Alfist | Cota | % | Proyecto | Terreno | Vermella | Alfist | Cota | % | Alfist | Cota | Alt | Alfist | Cota | Offset |
| MT-206 | | | | | | | | | | | | | | | | | | | | |
| 258+0.000 | | -6,526 | 248,120 | -0,46 | | -6,07 | 247,662 | -3,00 | 248,268 | 248,169 | 0,100 | 6,06 | 247,736 | -1,78 | | | | 6,18 | 247,864 | -0,128 |
| 259+0.000 | | -11,550 | 248,464 | -0,48 | | -6,07 | 247,982 | -3,00 | 248,588 | 248,388 | 0,200 | 6,05 | 248,069 | -1,54 | 10,05 | 247,07 | 1,00 | 10,90 | 247,913 | 0,156 |
| 260+0.000 | | -11,554 | 248,788 | -0,49 | | -6,07 | 248,301 | -3,00 | 248,907 | 248,587 | 0,320 | 6,05 | 248,403 | -1,31 | 10,05 | 247,40 | 1,00 | 10,47 | 247,818 | 0,585 |
| 261+0.000 | | -11,767 | 249,321 | -0,70 | | -6,07 | 248,621 | -3,00 | 249,227 | 249,081 | 0,146 | 6,05 | 248,737 | -1,07 | 10,05 | 247,74 | 1,00 | 10,36 | 248,048 | 0,689 |
| 262+0.000 | | -11,885 | 249,758 | -0,82 | | -6,07 | 248,940 | -3,00 | 249,546 | 249,527 | 0,019 | 6,05 | 249,071 | -0,84 | 10,05 | 248,07 | 1,00 | 10,15 | 248,175 | 0,896 |
| 263+0.000 | | -12,053 | 250,246 | -0,98 | | -6,07 | 249,260 | -3,00 | 249,866 | 250,038 | -0,172 | 6,04 | 249,404 | -0,60 | 10,04 | 248,40 | 1,00 | 10,14 | 248,340 | 1,064 |
| 264+0.000 | | -12,057 | 250,569 | -0,99 | | -6,07 | 249,580 | -3,00 | 250,185 | 250,015 | 0,170 | 6,04 | 249,738 | -0,36 | 10,04 | 248,74 | 1,00 | 10,75 | 249,449 | 0,289 |
| 265+0.000 | | -11,931 | 250,762 | -0,86 | | -6,07 | 249,899 | -3,00 | 250,505 | 250,086 | 0,418 | 6,04 | 250,072 | -0,13 | 10,04 | 249,07 | 1,00 | 11,03 | 250,066 | 0,006 |
| 266+0.000 | | -12,236 | 251,388 | -1,17 | | -6,07 | 250,219 | -3,00 | 250,824 | 250,459 | 0,365 | 6,04 | 250,405 | 0,11 | 10,04 | 249,41 | 1,00 | 11,09 | 250,454 | -0,049 |
| 267+0.000 | | -12,333 | 251,804 | -1,27 | | -6,07 | 250,538 | -3,00 | 251,143 | 250,669 | 0,474 | 6,03 | 250,739 | 0,34 | 10,03 | 249,74 | 1,00 | 11,05 | 250,758 | -0,019 |
| 268+0.000 | | -12,426 | 252,217 | -1,36 | | -6,07 | 250,858 | -3,00 | 251,463 | 250,597 | 0,866 | 6,03 | 251,073 | 0,58 | 10,03 | 250,07 | 1,00 | 11,19 | 251,225 | -0,152 |
| 269+0.000 | | -12,546 | 252,656 | -1,48 | | -6,07 | 251,178 | -3,00 | 251,782 | 251,269 | 0,513 | 6,03 | 251,406 | 0,81 | 10,03 | 250,41 | 1,00 | 11,46 | 251,832 | -0,426 |
| 270+0.000 | | -12,440 | 252,870 | -1,37 | | -6,07 | 251,497 | -3,00 | 252,102 | 251,345 | 0,757 | 6,03 | 251,740 | 1,05 | 10,03 | 250,74 | 1,00 | 11,46 | 252,175 | -0,435 |
| 271+0.000 | | -12,425 | 253,174 | -1,36 | | -6,07 | 251,817 | -3,00 | 252,421 | 251,552 | 0,869 | 6,03 | 252,074 | 1,29 | 10,03 | 251,07 | 1,00 | 11,44 | 252,489 | -0,415 |
| 272+0.000 | | -12,422 | 253,491 | -1,36 | | -6,07 | 252,136 | -3,00 | 252,741 | 251,981 | 0,759 | 6,02 | 252,407 | 1,52 | 10,02 | 251,41 | 1,00 | 11,38 | 252,762 | -0,355 |
| 273+0.000 | | -12,391 | 253,779 | -1,32 | | -6,07 | 252,456 | -3,00 | 253,060 | 252,465 | 0,595 | 6,02 | 252,741 | 1,76 | 10,02 | 251,74 | 1,00 | 11,35 | 253,070 | -0,329 |
| 274+0.000 | | -12,431 | 254,139 | -1,36 | | -6,07 | 252,775 | -3,00 | 253,380 | 252,732 | 0,647 | 6,02 | 253,074 | 1,99 | 10,02 | 252,07 | 1,00 | 11,29 | 253,349 | -0,275 |
| 275+0.000 | | -12,246 | 254,274 | -1,18 | | -6,07 | 253,095 | -3,00 | 253,699 | 253,009 | 0,690 | 6,02 | 253,408 | 2,23 | 10,02 | 252,41 | 1,00 | 11,27 | 253,661 | -0,253 |
| 276+0.000 | | -12,422 | 254,751 | -1,36 | | -6,07 | 253,396 | -3,00 | 254,000 | 253,389 | 0,610 | 6,02 | 253,723 | 2,46 | 10,02 | 252,72 | 1,00 | 11,22 | 253,931 | -0,208 |
| 277+0.000 | | -12,378 | 254,970 | -1,31 | | -6,07 | 253,659 | -3,00 | 254,263 | 253,787 | 0,476 | 6,01 | 254,000 | 2,70 | 10,01 | 253,00 | 1,00 | 11,21 | 254,195 | -0,195 |
| 277+16.927 | PC | -12,514 | 255,299 | -1,45 | | -6,07 | 253,852 | -3,00 | 254,456 | 254,150 | 0,306 | 6,01 | 254,211 | 3,00 | 10,01 | 253,21 | 1,00 | 11,24 | 254,436 | -0,225 |
| 278+0.000 | | -13,059 | 255,259 | -1,39 | | -6,67 | 253,867 | -3,00 | 254,488 | 254,147 | 0,341 | 6,61 | 254,244 | 2,74 | 10,61 | 253,24 | 1,00 | 11,81 | 254,443 | -0,199 |
| 279+0.000 | | -13,026 | 255,412 | -1,36 | | -6,67 | 254,053 | -3,00 | 254,676 | 254,316 | 0,359 | 6,63 | 254,322 | 1,07 | 10,63 | 253,32 | 1,00 | 11,97 | 254,666 | -0,344 |
| 279+12.757 | | -12,996 | 255,481 | -1,33 | | -6,67 | 254,153 | -3,00 | 254,776 | 254,486 | 0,290 | 6,64 | 254,351 | 0,00 | 10,64 | 253,35 | 1,00 | 12,07 | 254,781 | -0,430 |
| 280+0.000 | | -13,007 | 255,542 | -1,34 | | -6,67 | 254,202 | -3,00 | 254,826 | 254,491 | 0,335 | 6,64 | 254,361 | -0,61 | 10,64 | 253,36 | 1,00 | 12,17 | 254,885 | -0,524 |
| 281+0.000 | | -13,024 | 255,671 | -1,36 | | -6,67 | 254,314 | -3,00 | 254,938 | 254,769 | 0,170 | 6,66 | 254,361 | -2,28 | 10,66 | 253,36 | 1,00 | 12,00 | 254,705 | -0,344 |
| 281+8.587 | PT | -12,318 | 255,619 | -1,25 | | -6,07 | 254,368 | -3,00 | 254,975 | 254,996 | -0,021 | 6,01 | 254,730 | 3,00 | 10,01 | 253,73 | 1,00 | 11,05 | 254,765 | -0,035 |
| 282+0.000 | | -12,156 | 255,503 | -1,09 | | -6,07 | 254,413 | -2,89 | 255,013 | 254,954 | 0,059 | 6,01 | 254,762 | 2,89 | 10,01 | 253,76 | 1,00 | 11,11 | 254,862 | -0,100 |
| 283+0.000 | | -12,246 | 255,642 | -1,18 | | -6,06 | 254,461 | -2,71 | 255,051 | 254,967 | 0,083 | 6,01 | 254,788 | 2,69 | 10,01 | 253,79 | 1,00 | 11,25 | 255,020 | -0,232 |
| 284+0.000 | | -12,251 | 255,660 | -1,19 | | -6,06 | 254,472 | -2,52 | 255,050 | 254,935 | 0,116 | 6,01 | 254,776 | 2,50 | 10,01 | 253,78 | 1,00 | 11,36 | 255,125 | -0,349 |
| 285+0.000 | | -12,246 | 255,631 | -1,19 | | -6,06 | 254,446 | -2,34 | 255,012 | 254,999 | 0,013 | 6,02 | 254,727 | 2,30 | 10,02 | 253,73 | 1,00 | 11,56 | 255,268 | -0,541 |
| 286+0.000 | | -12,315 | 255,637 | -1,26 | | -6,06 | 254,381 | -2,15 | 254,937 | 254,818 | 0,119 | 6,02 | 254,640 | 2,11 | 10,02 | 253,64 | 1,00 | 11,57 | 255,190 | -0,550 |
| 287+0.000 | | -12,334 | 255,556 | -1,28 | | -6,06 | 254,279 | -1,97 | 254,823 | 254,674 | 0,150 | 6,02 | 254,515 | 1,91 | 10,02 | 253,52 | 1,00 | 11,64 | 255,139 | -0,624 |
| 288+0.000 | | -12,336 | 255,420 | -1,28 | | -6,06 | 254,140 | -1,78 | 254,672 | 254,557 | 0,116 | 6,02 | 254,353 | 1,72 | 10,02 | 253,35 | 1,00 | 11,74 | 255,072 | -0,719 |
| 289+0.000 | | -12,520 | 255,429 | -1,47 | | -6,05 | 253,962 | -1,59 | 254,484 | 254,305 | 0,178 | 6,02 | 254,153 | 1,52 | 10,02 | 253,15 | 1,00 | 11,86 | 254,988 | -0,835 |
| 290+0.000 | | -12,639 | 255,355 | -1,59 | | -6,05 | 253,766 | -1,41 | 254,277 | 254,102 | 0,175 | 6,03 | 253,934 | 1,32 | 10,03 | 252,93 | 1,00 | 11,87 | 254,776 | -0,842 |
| 291+0.000 | | -12,613 | 255,134 | -1,56 | | -6,05 | 253,570 | -1,22 | 254,069 | 253,770 | 0,299 | 6,03 | 253,716 | 1,13 | 10,03 | 252,72 | 1,00 | 11,99 | 254,683 | -0,967 |
| 292+0.000 | | -12,800 | 255,126 | -1,75 | | -6,05 | 253,374 | -1,04 | 253,862 | 253,577 | 0,285 | 6,03 | 253,497 | 0,93 | 10,03 | 252,50 | 1,00 | 11,95 | 254,415 | -0,918 |
| 293+0.000 | | -12,900 | 255,032 | -1,85 | | -6,05 | 253,178 | -0,85 | 253,655 | 253,338 | 0,316 | 6,03 | 253,278 | 0,74 | 10,03 | 252,28 | 1,00 | 11,95 | 254,193 | -0,915 |
| 294+0.000 | | -12,038 | 253,977 | -1,00 | | -6,04 | 252,982 | -0,67 | 253,447 | 252,948 | 0,499 | 6,03 | 253,059 | 0,54 | 10,03 | 252,06 | 1,00 | 11,81 | 253,836 | -0,777 |
| 295+0.000 | | -12,093 | 253,837 | -1,05 | | -6,04 | 252,786 | -0,48 | 253,240 | 252,738 | 0,862 | 6,03 | 252,841 | 0,35 | 10,03 | 251,84 | 1,00 | 11,82 | 253,630 | -0,789 |
| 296+0.000 | | -6,342 | 252,389 | 0,20 | | -6,04 | 252,590 | -0,29 | 253,033 | 251,854 | 1,179 | 6,04 | 252,622 | 0,15 | | | | 6,52 | 252,299 | 0,323 |
| 297+0.000 | | -6,850 | 251,853 | 0,54 | | -6,04 | 252,394 | -0,11 | 252,825 | 251,232 | 1,593 | 6,04 | 252,403 | -0,04 | | | | 6,28 | 252,242 | 0,161 |
| 298+0.000 | | -7,533 | 251,200 | 1,00 | | -6,04 | 252,198 | 0,08 | 252,618 | 250,548 | 2,070 | 6,04 | 252,184 | -0,24 | | | | 7,92 | 250,934 | 1,250 |
| 299+0.000 | | -8,274 | 250,542 | 1,49 | | -6,04 | 252,034 | 0,26 | 252,443 | 250,022 | 2,422 | 6,04 | 251,988 | -0,43 | | | | 9,12 | 249,944 | 2,054 |
| 300+0.000 | | -9,058 | 249,919 | 2,02 | | -6,03 | 251,936 | 0,45 | 252,334 | 249,848 | 2,486 | 6,04 | 251,877 | -0,63 | | | | 9,22 | 249,762 | 2,115 |
| 301+0.000 | | -9,128 | 249,839 | 2,06 | | -6,03 | 251,903 | 0,63 | 252,290 | 249,766 | 2,524 | 6,05 | 251,822 | -0,82 | | | | 9,52 | 249,503 | 2,319 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | | | | |
|------------|-----------------------|---------------|---------|-------|---------|---------------|---------|-------|---------|--------------|--------|---------------|---------|-------|-------|-------|---------|--------|------|
| | | Falso Alente | | Alt | Atlat | Bordo (Pt 03) | | Cota | Terreno | Vermelha | Atlat | Bordo (Pt 04) | | Cota | Alt | Atlat | Cota | Offset | |
| | | Atlat | Cota | | | Atlat | Cota | | | | | % | Atlat | | | | | | Cota |
| MT-206 | | | | | | | | | | | | | | | | | | | |
| 302+0.000 | | -9,099 | 249,889 | 2,05 | | -6,03 | 251,935 | 0,82 | 252,311 | 249,652 | 2,659 | 6,05 | 251,831 | -1,02 | | 9,78 | 249,346 | 2,485 | |
| 303+0.000 | | -9,190 | 249,925 | 2,11 | | -6,03 | 252,033 | 1,00 | 252,397 | 249,758 | 2,640 | 6,05 | 251,906 | -1,22 | | 9,37 | 249,691 | 2,215 | |
| 304+0.000 | | -9,138 | 250,122 | 2,07 | | -6,03 | 252,196 | 1,19 | 252,549 | 250,063 | 2,486 | 6,05 | 252,046 | -1,41 | | 9,94 | 249,455 | 2,591 | |
| 305+0.000 | | -7,733 | 251,285 | 1,14 | | -6,03 | 252,424 | 1,38 | 252,766 | 250,360 | 2,406 | 6,05 | 252,252 | -1,61 | | 7,64 | 251,195 | 1,057 | |
| 306+0.000 | | -7,200 | 251,933 | 0,78 | | -6,02 | 252,717 | 1,56 | 253,048 | 250,996 | 2,052 | 6,06 | 252,522 | -1,80 | | 6,80 | 252,026 | 0,496 | |
| 307+0.000 | | -6,741 | 252,596 | 0,48 | | -6,02 | 253,076 | 1,75 | 253,396 | 252,070 | 1,326 | 6,06 | 252,858 | -2,00 | | 6,14 | 252,803 | 0,055 | |
| 309+0.000 | | -12,335 | 255,175 | -1,32 | -10,018 | -6,02 | 253,858 | 2,12 | 254,156 | 253,673 | 0,483 | 6,06 | 253,595 | -2,39 | 10,06 | 12,36 | 254,896 | -1,301 | |
| 310+0.000 | | -12,417 | 255,650 | -1,40 | -10,016 | -6,02 | 254,249 | 2,30 | 254,536 | 254,848 | -0,312 | 6,06 | 253,964 | -2,58 | 10,06 | 12,49 | 255,393 | -1,429 | |
| 311+0.000 | | -12,531 | 256,157 | -1,52 | -10,015 | -6,02 | 254,641 | 2,49 | 254,916 | 255,235 | -0,319 | 6,07 | 254,332 | -2,78 | 10,07 | 12,65 | 255,916 | -1,584 | |
| 312+0.000 | | -12,490 | 256,509 | -1,48 | -10,013 | -6,01 | 255,032 | 2,68 | 255,296 | 255,539 | -0,243 | 6,07 | 254,701 | -2,97 | 10,07 | 12,66 | 256,293 | -1,592 | |
| 312+2.589 | PC | -12,465 | 256,556 | -1,45 | -10,010 | -6,01 | 255,101 | 3,00 | 255,345 | 255,547 | -0,202 | 6,07 | 254,749 | -3,00 | 10,07 | 12,67 | 256,355 | -1,606 | |
| 313+0.000 | | -13,178 | 256,841 | -1,55 | -10,031 | -6,03 | 255,294 | 0,65 | 255,676 | 255,978 | -0,301 | 6,67 | 255,059 | -3,00 | 10,67 | 13,05 | 256,444 | -1,385 | |
| 313+4.802 | | -13,213 | 256,918 | -1,58 | -10,038 | -6,04 | 255,342 | 0,00 | 255,767 | 256,006 | -0,238 | 6,67 | 255,148 | -3,00 | 10,67 | 13,05 | 256,535 | -1,387 | |
| 314+0.000 | | -13,322 | 257,158 | -1,66 | -10,058 | -6,06 | 255,495 | -2,05 | 256,056 | 256,412 | -0,356 | 6,67 | 255,433 | -3,00 | 10,67 | 13,24 | 257,008 | -1,575 | |
| 314+7.016 | PT | -12,317 | 257,252 | -1,31 | -10,010 | -6,01 | 255,945 | 3,00 | 256,190 | 256,283 | -0,094 | 6,07 | 255,582 | -3,00 | 10,07 | 12,60 | 257,118 | -1,536 | |
| 315+0.000 | | -12,368 | 257,513 | -1,35 | -10,015 | -6,02 | 256,160 | 2,44 | 256,436 | 256,577 | -0,141 | 6,06 | 255,860 | -2,50 | 10,06 | 12,53 | 257,329 | -1,469 | |
| 316+0.000 | | -12,438 | 257,907 | -1,41 | -10,023 | -6,02 | 256,492 | 1,58 | 256,816 | 256,853 | -0,037 | 6,05 | 256,287 | -1,72 | 10,05 | 12,47 | 257,704 | -1,417 | |
| 317+0.000 | | -12,351 | 258,143 | -1,32 | -10,031 | -6,03 | 256,823 | 0,72 | 257,196 | 257,263 | -0,067 | 6,05 | 256,714 | -0,95 | 10,05 | 12,37 | 258,039 | -1,325 | |
| 318+0.000 | | -12,340 | 258,455 | -1,30 | -10,039 | -6,04 | 257,154 | -0,14 | 257,577 | 257,610 | -0,033 | 6,04 | 257,141 | -0,18 | 10,04 | 12,26 | 258,360 | -1,219 | |
| 319+0.000 | | -12,441 | 258,879 | -1,39 | -10,047 | -6,05 | 257,485 | -1,00 | 257,957 | 257,933 | 0,024 | 6,03 | 257,568 | 0,60 | 10,03 | 12,03 | 258,566 | -0,998 | |
| 320+0.000 | | -12,545 | 259,306 | -1,49 | -10,056 | -6,06 | 257,816 | -1,86 | 258,337 | 258,266 | 0,070 | 6,03 | 257,994 | 1,37 | 10,03 | 11,70 | 258,671 | -0,677 | |
| 321+0.000 | | -12,261 | 259,336 | -1,20 | -10,065 | -6,07 | 258,140 | -2,72 | 258,710 | 258,296 | 0,414 | 6,02 | 258,474 | 2,15 | 10,02 | 11,25 | 258,645 | -0,231 | |
| 321+6.535 | PC | -12,249 | 259,417 | -1,18 | -10,068 | -6,07 | 258,236 | -3,00 | 258,822 | 258,421 | 0,401 | 6,01 | 258,578 | 3,00 | 10,01 | 11,30 | 258,868 | -0,290 | |
| 322+0.000 | | -12,844 | 259,599 | -1,18 | -10,068 | -6,07 | 258,423 | -3,00 | 259,035 | 259,014 | 0,021 | 6,64 | 258,616 | 0,08 | 10,64 | 12,34 | 259,318 | -0,702 | |
| 322+0.379 | | -12,844 | 259,605 | -1,18 | -10,068 | -6,07 | 258,428 | -3,00 | 259,041 | 259,034 | 0,007 | 6,64 | 258,616 | 0,00 | 10,64 | 12,35 | 259,324 | -0,708 | |
| 322+14.224 | PT | -12,253 | 259,813 | -1,19 | -10,068 | -6,07 | 258,627 | -3,00 | 259,234 | 259,094 | 0,139 | 6,01 | 258,989 | 3,00 | 10,01 | 11,63 | 259,610 | -0,621 | |
| 323+0.000 | | -12,245 | 259,878 | -1,18 | -10,067 | -6,07 | 258,701 | -2,98 | 259,306 | 259,293 | 0,013 | 6,01 | 259,060 | 2,98 | 10,01 | 11,62 | 259,666 | -0,606 | |
| 324+0.000 | | -12,120 | 259,974 | -1,05 | -10,067 | -6,07 | 258,921 | -2,91 | 259,523 | 259,345 | 0,177 | 6,01 | 259,272 | 2,89 | 10,01 | 11,48 | 259,736 | -0,464 | |
| 325+0.000 | | -12,196 | 260,217 | -1,13 | -10,066 | -6,07 | 259,087 | -2,84 | 259,684 | 259,385 | 0,299 | 6,01 | 259,429 | 2,81 | 10,01 | 11,40 | 259,816 | -0,387 | |
| 326+0.000 | | -12,118 | 260,251 | -1,05 | -10,065 | -6,07 | 259,198 | -2,77 | 259,791 | 259,760 | 0,031 | 6,01 | 259,532 | 2,73 | 10,01 | 11,38 | 259,901 | -0,369 | |
| 327+0.000 | | -12,096 | 260,286 | -1,03 | -10,064 | -6,06 | 259,255 | -2,70 | 259,844 | 259,755 | 0,088 | 6,01 | 259,580 | 2,64 | 10,01 | 11,32 | 259,891 | -0,311 | |
| 328+0.000 | | -12,093 | 260,286 | -1,03 | -10,064 | -6,06 | 259,257 | -2,63 | 259,842 | 259,637 | 0,204 | 6,01 | 259,573 | 2,56 | 10,01 | 11,32 | 259,880 | -0,307 | |
| 329+0.000 | | -12,051 | 260,193 | -0,99 | -10,063 | -6,06 | 259,204 | -2,56 | 259,785 | 259,386 | 0,398 | 6,02 | 259,512 | 2,48 | 10,02 | 11,25 | 259,747 | -0,235 | |
| 330+0.000 | | -11,471 | 259,506 | -0,41 | -10,062 | -6,06 | 259,097 | -2,49 | 259,673 | 259,206 | 0,467 | 6,02 | 259,396 | 2,39 | 10,02 | 11,27 | 259,648 | -0,252 | |
| 331+0.000 | | -12,283 | 260,157 | -1,22 | -10,062 | -6,06 | 258,935 | -2,42 | 259,507 | 259,251 | 0,257 | 6,02 | 259,225 | 2,31 | 10,02 | 11,29 | 259,494 | -0,269 | |
| 332+0.000 | | -12,276 | 259,934 | -1,22 | -10,061 | -6,06 | 258,719 | -2,35 | 259,287 | 258,950 | 0,337 | 6,02 | 259,000 | 2,23 | 10,02 | 11,34 | 259,326 | -0,326 | |
| 333+0.000 | | -12,090 | 259,477 | -1,03 | -10,060 | -6,06 | 258,448 | -2,28 | 259,012 | 258,412 | 0,599 | 6,02 | 258,720 | 2,14 | 10,02 | 11,28 | 259,982 | -0,262 | |
| 334+0.000 | | -12,239 | 259,302 | -1,15 | -10,059 | -6,06 | 258,122 | -2,22 | 258,682 | 258,102 | 0,580 | 6,02 | 258,386 | 2,06 | 10,02 | 11,41 | 258,772 | -0,386 | |
| 335+0.000 | | -12,211 | 258,894 | -1,18 | -10,059 | -6,06 | 257,742 | -2,15 | 258,297 | 258,448 | -0,151 | 6,02 | 257,997 | 1,98 | 10,02 | 11,45 | 258,428 | -0,431 | |
| 336+0.000 | | -11,929 | 258,179 | -0,87 | -10,058 | -6,06 | 257,307 | -2,08 | 257,858 | 257,768 | 0,090 | 6,02 | 257,554 | 1,89 | 10,02 | 11,43 | 257,963 | -0,409 | |
| 337+0.000 | | -12,117 | 257,878 | -1,06 | -10,057 | -6,06 | 256,818 | -2,01 | 257,365 | 257,086 | 0,278 | 6,02 | 257,055 | 1,81 | 10,02 | 11,39 | 257,423 | -0,368 | |
| 338+0.000 | | -12,326 | 257,544 | -1,27 | -10,057 | -6,06 | 256,274 | -1,94 | 256,816 | 256,380 | 0,436 | 6,02 | 256,503 | 1,72 | 10,02 | 11,46 | 256,944 | -0,441 | |
| 339+0.000 | | -12,335 | 256,955 | -1,28 | -10,056 | -6,06 | 255,675 | -1,87 | 256,213 | 255,642 | 0,572 | 6,02 | 255,895 | 1,64 | 10,02 | 11,47 | 256,341 | -0,446 | |
| 340+0.000 | | -12,052 | 256,025 | -1,00 | -10,055 | -6,06 | 255,029 | -1,80 | 255,563 | 254,801 | 0,761 | 6,02 | 255,240 | 1,56 | 10,02 | 11,43 | 255,651 | -0,411 | |
| 341+0.000 | | -6,102 | 254,423 | -0,05 | | -6,05 | 254,376 | -1,73 | 254,905 | 253,694 | 1,211 | 6,02 | 254,578 | 1,47 | | 7,12 | 253,851 | 0,727 | |
| 342+0.000 | | -6,820 | 253,211 | 0,51 | | -6,05 | 253,722 | -1,66 | 254,248 | 252,921 | 1,327 | 6,02 | 253,916 | 1,39 | | 7,23 | 253,110 | 0,806 | |
| 343+0.000 | | -7,102 | 252,370 | 0,70 | | -6,05 | 253,069 | -1,59 | 253,590 | 252,033 | 1,557 | 6,03 | 253,254 | 1,31 | | 7,09 | 252,544 | 0,710 | |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | | |
|-----------|-----------------------|---------------|---------|---------------|-------|---------|-------|---------------|---------|---------------|------|---------|-------|-----|-------|---------|--------|
| | | OFFSET | | Bordo (Pt 03) | | Cota | | Bordo (Pt 04) | | Falso Alarrio | | OFFSET | | | | | |
| | | Alast | Cota | Alt | Alast | Cota | Alt | % | Alast | Cota | Alt | Alast | Cota | Alt | | | |
| MT-206 | | | | | | | | | | | | | | | | | |
| 344+0.000 | | -7,030 | 251,764 | 0,65 | -6,05 | 252,416 | -1,52 | 252,933 | 251,312 | 1,621 | 6,03 | 252,592 | 1,22 | | 6,49 | 252,282 | 0,310 |
| 345+0.000 | | -7,501 | 250,796 | 0,97 | -6,05 | 251,763 | -1,45 | 252,275 | 250,230 | 2,046 | 6,03 | 251,930 | 1,14 | | 6,81 | 251,409 | 0,521 |
| 346+0.000 | | -8,789 | 249,298 | 1,82 | -6,05 | 251,123 | -1,38 | 251,632 | 249,060 | 2,572 | 6,03 | 251,282 | 1,06 | | 7,42 | 250,352 | 0,930 |
| 347+0.000 | | -9,014 | 248,607 | 1,98 | -6,05 | 250,583 | -1,31 | 251,087 | 248,219 | 2,868 | 6,03 | 250,733 | 0,97 | | 8,79 | 248,894 | 1,839 |
| 348+0.000 | | -9,432 | 247,900 | 2,26 | -6,05 | 250,155 | -1,24 | 250,655 | 247,704 | 2,951 | 6,03 | 250,296 | 0,89 | | 9,70 | 247,851 | 2,445 |
| 349+0.000 | | -9,653 | 247,437 | 2,40 | -6,05 | 249,840 | -1,17 | 250,336 | 247,494 | 2,842 | 6,03 | 249,972 | 0,81 | | 9,89 | 247,398 | 2,574 |
| 350+0.000 | | -9,554 | 247,300 | 2,34 | -6,05 | 249,637 | -1,10 | 250,129 | 247,638 | 2,490 | 6,03 | 249,761 | 0,72 | | 10,09 | 247,054 | 2,707 |
| 351+0.000 | | -9,039 | 247,553 | 1,99 | -6,05 | 249,547 | -1,03 | 250,035 | 247,648 | 2,387 | 6,03 | 249,662 | 0,64 | | 10,21 | 246,874 | 2,788 |
| 352+0.000 | | -8,920 | 247,654 | 1,92 | -6,05 | 249,570 | -0,96 | 250,053 | 247,669 | 2,384 | 6,03 | 249,676 | 0,56 | | 9,63 | 247,279 | 2,397 |
| 353+0.000 | | -9,345 | 247,506 | 2,20 | -6,05 | 249,705 | -0,89 | 250,184 | 247,550 | 2,634 | 6,03 | 249,802 | 0,47 | | 9,95 | 247,188 | 2,614 |
| 354+0.000 | | -9,732 | 247,495 | 2,46 | -6,05 | 249,953 | -0,83 | 250,428 | 247,346 | 3,082 | 6,03 | 250,042 | 0,39 | | 10,04 | 247,368 | 2,674 |
| 355+0.000 | | -9,850 | 247,777 | 2,54 | -6,05 | 250,314 | -0,76 | 250,784 | 247,713 | 3,071 | 6,04 | 250,394 | 0,31 | | 9,60 | 248,019 | 2,375 |
| 356+0.000 | | -9,642 | 248,388 | 2,40 | -6,04 | 250,787 | -0,69 | 251,253 | 248,096 | 3,158 | 6,04 | 250,858 | 0,22 | | 7,52 | 249,866 | 0,992 |
| 357+0.000 | | -9,501 | 249,068 | 2,30 | -6,04 | 251,373 | -0,62 | 251,835 | 248,967 | 2,868 | 6,04 | 251,435 | 0,14 | | 7,24 | 250,632 | 0,803 |
| 358+0.000 | | -8,846 | 250,203 | 1,87 | -6,04 | 252,071 | -0,55 | 252,530 | 250,203 | 2,327 | 6,04 | 252,125 | 0,06 | | 8,55 | 250,452 | 1,673 |
| 359+0.000 | | -8,040 | 251,551 | 1,33 | -6,04 | 252,883 | -0,48 | 253,337 | 251,361 | 1,975 | 6,04 | 252,928 | -0,03 | | 8,13 | 251,535 | 1,393 |
| 360+0.000 | | -7,637 | 252,729 | 1,06 | -6,04 | 253,793 | -0,41 | 254,242 | 251,820 | 2,422 | 6,04 | 253,829 | -0,11 | | 8,42 | 252,239 | 1,590 |
| 361+0.000 | | -8,157 | 253,306 | 1,41 | -6,04 | 254,717 | -0,34 | 255,162 | 252,748 | 2,414 | 6,04 | 254,744 | -0,19 | | 8,34 | 253,207 | 1,537 |
| 362+0.000 | | -8,046 | 254,303 | 1,34 | -6,04 | 255,640 | -0,27 | 256,082 | 253,788 | 2,294 | 6,04 | 255,659 | -0,28 | | 8,01 | 254,343 | 1,316 |
| 363+0.000 | | -7,699 | 255,458 | 1,11 | -6,04 | 256,564 | -0,20 | 257,001 | 254,899 | 2,103 | 6,04 | 256,574 | -0,36 | | 7,73 | 255,451 | 1,123 |
| 364+0.000 | | -7,322 | 256,633 | 0,86 | -6,04 | 257,488 | -0,13 | 257,921 | 255,849 | 2,072 | 6,04 | 257,489 | -0,44 | | 7,72 | 256,373 | 1,116 |
| 365+0.000 | | -7,187 | 257,646 | 0,77 | -6,04 | 258,412 | -0,06 | 258,841 | 256,839 | 2,002 | 6,04 | 258,405 | -0,53 | | 7,91 | 257,158 | 1,247 |
| 366+0.000 | | -7,344 | 258,465 | 0,87 | -6,04 | 259,336 | 0,01 | 259,761 | 257,703 | 2,058 | 6,04 | 259,320 | -0,61 | | 7,20 | 258,547 | 0,773 |
| 367+0.000 | | -10,362 | 259,955 | 0,31 | -9,90 | 260,263 | 0,08 | 260,680 | 258,555 | 2,125 | 8,47 | 260,218 | -0,69 | | 9,03 | 259,843 | 0,375 |
| 368+0.000 | | -10,362 | 260,645 | 0,31 | -9,90 | 260,953 | 0,08 | 261,370 | 259,901 | 1,469 | 8,47 | 260,908 | -0,69 | | 9,03 | 260,533 | 0,375 |
| 369+0.000 | | -10,362 | 260,875 | 0,31 | -9,90 | 261,183 | 0,08 | 261,600 | 260,902 | 0,698 | 8,47 | 261,138 | -0,69 | | 9,03 | 260,763 | 0,375 |
| 369+6.085 | | | | | | | | | | | | | | | | | |
| 370+0.000 | | | | | | | | | | | | | | | | | |
| 371+0.000 | | | | | | | | | | | | | | | | | |
| 372+0.000 | | | | | | | | | | | | | | | | | |
| 373+0.000 | | -7,517 | 259,019 | 0,99 | -6,03 | 260,009 | 0,50 | 260,404 | 259,046 | 1,358 | 6,05 | 259,931 | -1,19 | | 6,71 | 259,493 | 0,438 |
| 374+0.000 | | -6,957 | 258,599 | 0,62 | -6,03 | 259,216 | 0,56 | 259,607 | 258,393 | 1,214 | 6,05 | 259,129 | -1,28 | | 6,12 | 259,084 | 0,045 |
| 375+0.000 | | -6,803 | 257,908 | 0,51 | -6,03 | 258,423 | 0,63 | 258,810 | 257,908 | 0,902 | 6,05 | 258,328 | -1,36 | | 6,25 | 258,524 | -0,196 |
| 376+0.000 | | -6,078 | 257,598 | 0,03 | -6,03 | 257,630 | 0,70 | 258,012 | 257,234 | 0,778 | 6,05 | 257,526 | -1,44 | | 6,50 | 257,973 | -0,447 |
| 377+0.000 | | -6,386 | 256,600 | 0,24 | -6,03 | 256,837 | 0,77 | 257,215 | 256,607 | 0,608 | 6,05 | 256,724 | -1,53 | | 6,93 | 257,604 | -0,880 |
| 378+0.000 | | -6,045 | 256,059 | -0,02 | -6,03 | 256,043 | 0,84 | 256,418 | 255,985 | 0,432 | 6,05 | 255,922 | -1,61 | | 6,93 | 256,795 | -0,873 |
| 379+0.000 | | -6,222 | 255,443 | -0,19 | -6,03 | 255,250 | 0,91 | 255,620 | 254,928 | 0,693 | 6,05 | 255,120 | -1,69 | | 6,78 | 255,844 | -0,724 |
| 380+0.000 | | -6,191 | 254,349 | 0,11 | -6,03 | 254,457 | 0,98 | 254,823 | 254,366 | 0,457 | 6,06 | 254,318 | -1,78 | | 7,01 | 255,270 | -0,952 |
| 381+0.000 | | -6,462 | 254,099 | -0,44 | -6,03 | 253,664 | 1,05 | 254,026 | 253,536 | 0,490 | 6,06 | 253,516 | -1,86 | | 6,80 | 254,257 | -0,741 |
| 382+0.000 | | -6,483 | 253,327 | -0,46 | -6,03 | 252,871 | 1,12 | 253,229 | 252,989 | 0,239 | 6,06 | 252,715 | -1,95 | | 7,23 | 253,892 | -1,177 |
| 383+0.000 | | -6,682 | 252,734 | -0,66 | -6,03 | 252,078 | 1,19 | 252,431 | 252,296 | 0,135 | 6,06 | 251,913 | -2,03 | | 7,10 | 252,957 | -1,044 |
| 384+0.000 | | -6,784 | 252,044 | -0,76 | -6,03 | 251,285 | 1,26 | 251,634 | 251,312 | 0,322 | 6,06 | 251,111 | -2,11 | | 6,92 | 251,974 | -0,863 |
| 385+0.000 | | -6,450 | 250,917 | -0,43 | -6,03 | 250,492 | 1,33 | 250,837 | 250,165 | 0,672 | 6,06 | 250,309 | -2,20 | | 6,58 | 250,833 | -0,524 |
| 386+0.000 | | -6,115 | 249,790 | -0,09 | -6,02 | 249,699 | 1,40 | 250,039 | 248,811 | 1,228 | 6,06 | 249,507 | -2,28 | | 6,26 | 249,703 | -0,196 |
| 387+0.000 | | -7,276 | 248,071 | 0,84 | -6,02 | 248,906 | 1,47 | 249,242 | 247,429 | 1,813 | 6,06 | 248,705 | -2,36 | | 6,23 | 248,595 | 0,110 |
| 388+0.000 | | -7,079 | 247,408 | 0,70 | -6,02 | 248,112 | 1,54 | 248,445 | 246,196 | 2,248 | 6,06 | 247,903 | -2,45 | | 7,11 | 247,206 | 0,697 |
| 389+0.000 | | -7,912 | 246,060 | 1,26 | -6,02 | 247,319 | 1,61 | 247,648 | 245,215 | 2,433 | 6,06 | 247,101 | -2,53 | | 7,09 | 246,415 | 0,686 |

ROTATÓRIA 01

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | | | |
|------------|-----------------------|---------------|---------|-------|--------------|-------|---------|----------|--------------|--------------|--------------|--------|---------|-------|--|-------|---------|-------|
| | | OFFSET | | Alt | Falso Altopo | Cota | Terreno | Vermelha | Bordo (Pt04) | | Falso Altopo | OFFSET | | | | | | |
| | | Altopo | Cota | | | | | | Altopo | Cota | | Altopo | Cota | | | | | |
| MT-206 | | | | | | | | | | | | | | | | | | |
| 390+0.000 | | -8,479 | 244,971 | 1,64 | | -6,02 | 246,609 | 1,68 | 246,933 | 244,524 | 2,409 | 6,06 | 246,382 | -2,61 | | 7,62 | 245,346 | 1,036 |
| 391+0.000 | | -8,288 | 244,553 | 1,51 | | -6,02 | 246,064 | 1,75 | 246,384 | 244,114 | 2,270 | 6,06 | 245,829 | -2,70 | | 8,15 | 244,436 | 1,393 |
| 392+0.000 | | -8,712 | 243,890 | 1,80 | | -6,02 | 245,685 | 1,82 | 246,000 | 243,785 | 2,216 | 6,07 | 245,440 | -2,78 | | 8,16 | 244,045 | 1,395 |
| 393+0.000 | | -8,366 | 243,854 | 1,56 | | -6,02 | 245,418 | 1,89 | 245,729 | 243,834 | 1,895 | 6,07 | 245,165 | -2,86 | | 8,13 | 243,786 | 1,379 |
| 394+0.000 | | -8,495 | 243,560 | 1,65 | | -6,02 | 245,210 | 1,95 | 245,518 | 243,869 | 1,649 | 6,07 | 244,949 | -2,95 | | 8,10 | 243,593 | 1,356 |
| 394+12,981 | PC | -9,633 | 242,752 | 2,41 | | -6,01 | 245,167 | 3,00 | 245,412 | 243,640 | 1,772 | 6,07 | 244,840 | -3,00 | | 7,57 | 243,838 | 1,002 |
| 395+0.000 | | -11,288 | 241,967 | 3,11 | | -6,62 | 245,080 | 2,10 | 245,366 | 243,538 | 1,827 | 6,67 | 244,781 | -3,00 | | 8,25 | 243,727 | 1,054 |
| 395+16,496 | | -11,664 | 241,509 | 3,35 | | -6,64 | 244,860 | 0,00 | 245,285 | 243,443 | 1,842 | 6,67 | 244,701 | -3,00 | | 8,87 | 243,235 | 1,466 |
| 396+0.000 | | -11,632 | 241,492 | 3,33 | | -6,64 | 244,818 | -0,45 | 245,273 | 243,407 | 1,867 | 6,67 | 244,689 | -3,00 | | 8,98 | 243,151 | 1,538 |
| 397+0.000 | | -10,109 | 241,939 | 2,69 | | -6,07 | 244,633 | -3,00 | 245,240 | 243,056 | 2,184 | 6,07 | 244,668 | -3,00 | | 9,34 | 242,489 | 2,179 |
| 397+0,011 | PT | -10,581 | 241,948 | 3,05 | | -6,01 | 244,996 | 3,00 | 245,240 | 243,055 | 2,185 | 6,07 | 244,668 | -3,00 | | 9,34 | 242,490 | 2,178 |
| 398+0.000 | | -9,429 | 242,712 | 2,28 | | -6,01 | 244,991 | 2,98 | 245,237 | 242,937 | 2,300 | 6,07 | 244,665 | -3,00 | | 9,30 | 242,513 | 2,152 |
| 399+0.000 | | -9,307 | 242,789 | 2,20 | | -6,01 | 244,987 | 2,96 | 245,234 | 242,776 | 2,458 | 6,07 | 244,662 | -3,00 | | 9,49 | 242,378 | 2,284 |
| 400+0.000 | | -9,337 | 242,765 | 2,22 | | -6,01 | 244,983 | 2,94 | 245,231 | 242,843 | 2,388 | 6,07 | 244,658 | -3,00 | | 9,62 | 242,290 | 2,368 |
| 401+0.000 | | -9,191 | 242,858 | 2,12 | | -6,01 | 244,979 | 2,92 | 245,228 | 242,918 | 2,310 | 6,07 | 244,655 | -3,00 | | 9,62 | 242,285 | 2,370 |
| 402+0.000 | | -9,327 | 242,764 | 2,21 | | -6,01 | 244,974 | 2,90 | 245,225 | 242,854 | 2,371 | 6,07 | 244,652 | -3,00 | | 9,52 | 242,352 | 2,300 |
| 403+0.000 | | -9,196 | 242,846 | 2,12 | | -6,01 | 244,970 | 2,88 | 245,222 | 242,875 | 2,347 | 6,07 | 244,649 | -3,00 | | 9,52 | 242,345 | 2,304 |
| 404+0.000 | | -9,406 | 242,703 | 2,26 | | -6,01 | 244,966 | 2,86 | 245,219 | 242,899 | 2,320 | 6,07 | 244,646 | -3,00 | | 8,95 | 242,726 | 1,920 |
| 405+0.000 | | -9,393 | 242,707 | 2,25 | | -6,01 | 244,961 | 2,84 | 245,216 | 243,102 | 2,114 | 6,07 | 244,642 | -3,00 | | 8,82 | 242,807 | 1,835 |
| 406+0.000 | | -9,264 | 242,789 | 2,17 | | -6,01 | 244,957 | 2,82 | 245,212 | 242,995 | 2,218 | 6,07 | 244,639 | -3,00 | | 8,76 | 242,845 | 1,794 |
| 407+0.000 | | -9,556 | 242,590 | 2,36 | | -6,01 | 244,953 | 2,80 | 245,209 | 242,991 | 2,219 | 6,07 | 244,636 | -3,00 | | 8,60 | 242,949 | 1,687 |
| 408+0.000 | | -9,452 | 242,655 | 2,29 | | -6,01 | 244,949 | 2,79 | 245,206 | 243,056 | 2,151 | 6,07 | 244,633 | -3,00 | | 8,27 | 243,168 | 1,465 |
| 409+0.000 | | -9,196 | 242,822 | 2,12 | | -6,01 | 244,944 | 2,77 | 245,203 | 243,198 | 2,005 | 6,07 | 244,630 | -3,00 | | 7,97 | 243,363 | 1,267 |
| 410+0.000 | | -8,264 | 243,439 | 1,50 | | -6,01 | 244,940 | 2,75 | 245,200 | 243,399 | 1,801 | 6,07 | 244,626 | -3,00 | | 7,74 | 243,510 | 1,116 |
| 411+0.000 | | -7,917 | 243,666 | 1,27 | | -6,01 | 244,936 | 2,73 | 245,197 | 243,523 | 1,674 | 6,07 | 244,623 | -3,00 | | 8,10 | 243,271 | 1,352 |
| 412+0.000 | | -8,163 | 243,498 | 1,43 | | -6,01 | 244,932 | 2,71 | 245,194 | 243,520 | 1,674 | 6,07 | 244,620 | -3,00 | | 7,97 | 243,352 | 1,268 |
| 413+0.000 | | -9,030 | 242,916 | 2,01 | | -6,01 | 244,927 | 2,69 | 245,191 | 243,362 | 1,829 | 6,07 | 244,617 | -3,00 | | 7,89 | 243,403 | 1,214 |
| 414+0.000 | | -8,788 | 243,073 | 1,85 | | -6,01 | 244,923 | 2,67 | 245,188 | 243,412 | 1,776 | 6,07 | 244,614 | -3,00 | | 7,92 | 243,380 | 1,234 |
| 415+0.000 | | -7,890 | 243,690 | 1,25 | | -6,01 | 244,941 | 2,65 | 245,207 | 243,676 | 1,531 | 6,07 | 244,633 | -3,00 | | 7,84 | 243,453 | 1,180 |
| 416+0.000 | | -7,992 | 243,686 | 1,32 | | -6,01 | 245,005 | 2,63 | 245,272 | 243,664 | 1,608 | 6,07 | 244,697 | -3,00 | | 7,83 | 243,523 | 1,174 |
| 417+0.000 | | -7,945 | 243,825 | 1,29 | | -6,01 | 245,113 | 2,61 | 245,381 | 243,748 | 1,633 | 6,07 | 244,807 | -3,00 | | 7,74 | 243,695 | 1,112 |
| 418+0.000 | | -7,687 | 244,151 | 1,11 | | -6,01 | 245,266 | 2,59 | 245,536 | 244,017 | 1,519 | 6,07 | 244,961 | -3,00 | | 7,60 | 243,937 | 1,024 |
| 419+0.000 | | -7,506 | 244,470 | 1,00 | | -6,01 | 245,465 | 2,57 | 245,735 | 244,353 | 1,383 | 6,07 | 245,161 | -3,00 | | 7,44 | 244,243 | 0,918 |
| 420+0.000 | | -7,522 | 244,727 | 1,01 | | -6,01 | 245,732 | 2,55 | 246,003 | 244,542 | 1,462 | 6,07 | 245,429 | -3,00 | | 7,46 | 244,504 | 0,925 |
| 421+0.000 | | -7,829 | 244,881 | 1,21 | | -6,01 | 246,091 | 2,53 | 246,364 | 244,792 | 1,571 | 6,07 | 245,789 | -3,00 | | 7,66 | 244,727 | 1,062 |
| 422+0.000 | | -7,841 | 245,324 | 1,22 | | -6,01 | 246,542 | 2,51 | 246,816 | 245,162 | 1,654 | 6,07 | 246,240 | -3,00 | | 7,59 | 245,226 | 1,014 |
| 423+0.000 | | -6,551 | 246,716 | 0,36 | | -6,02 | 247,073 | 2,49 | 247,348 | 245,735 | 1,613 | 6,07 | 246,773 | -3,00 | | 7,76 | 245,642 | 1,131 |
| 424+0.000 | | -6,268 | 247,869 | -0,25 | | -6,02 | 247,616 | 2,47 | 247,892 | 246,890 | 1,002 | 6,07 | 247,317 | -3,00 | | 6,93 | 246,739 | 0,578 |
| 425+0.000 | | -11,583 | 248,727 | -0,57 | | -6,02 | 248,158 | 2,45 | 248,436 | 247,659 | 0,777 | 6,07 | 247,860 | -3,00 | | 10,07 | 246,86 | 1,00 |
| 426+0.000 | | -11,880 | 249,566 | -0,87 | | -6,02 | 248,701 | 2,43 | 248,980 | 248,518 | 0,462 | 6,07 | 248,404 | -3,00 | | 10,07 | 247,40 | 1,00 |
| 427+0.000 | | -12,096 | 250,311 | -1,08 | | -6,02 | 249,230 | 2,41 | 249,510 | 249,141 | 0,369 | 6,07 | 248,934 | -3,00 | | 10,07 | 247,93 | 1,00 |
| 428+0.000 | | -12,227 | 250,944 | -1,21 | | -6,02 | 249,732 | 2,39 | 250,013 | 249,984 | 0,029 | 6,07 | 249,437 | -3,00 | | 10,07 | 248,44 | 1,00 |
| 429+0.000 | | -12,357 | 251,549 | -1,34 | | -6,02 | 250,207 | 2,37 | 250,489 | 250,317 | 0,173 | 6,07 | 249,913 | -3,00 | | 10,07 | 248,91 | 1,00 |
| 430+0.000 | | -12,499 | 252,138 | -1,48 | | -6,02 | 250,655 | 2,36 | 250,938 | 250,819 | 0,119 | 6,07 | 250,362 | -3,00 | | 10,07 | 249,36 | 1,00 |
| 431+0.000 | | -12,538 | 252,598 | -1,52 | | -6,02 | 251,075 | 2,34 | 251,360 | 251,233 | 0,127 | 6,07 | 250,784 | -3,00 | | 10,07 | 249,78 | 1,00 |
| 432+0.000 | | -12,615 | 253,068 | -1,60 | | -6,02 | 251,469 | 2,32 | 251,755 | 251,640 | 0,114 | 6,07 | 251,178 | -3,00 | | 10,07 | 250,18 | 1,00 |
| 433+0.000 | | -12,537 | 253,356 | -1,52 | | -6,02 | 251,835 | 2,30 | 252,122 | 252,090 | 0,032 | 6,07 | 251,546 | -3,00 | | 10,07 | 250,55 | 1,00 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | | Eixo | | | | | Lado Direito | | | | | | | |
|------------|-----------------------|---------------|---------|-------|---------------|---------|---------------|-------|--------------|---------|--------------|--------------|--------|------|---------|------|-------|---------|--------|
| | | OFFSET | | | Bordo (Pt 03) | | Bordo (Pt 04) | | Falso Alorro | | Falso Alorro | | OFFSET | | | | | | |
| | | Alast | Cota | Alt | Alast | Cota | Alt | % | Projeto | Terreno | Cola | Vermelha | Alast | Cota | Alt | % | Alast | Cota | Alt |
| MT-206 | | | | | | | | | | | | | | | | | | | |
| 434+0.000 | | -12.458 | 253.616 | -1.44 | -10.016 | 251.174 | 1.000 | -6.02 | 252.174 | 2.28 | 252.462 | 252.351 | 0.111 | 6.07 | 251.886 | 1.00 | 12.83 | 253.648 | -1.762 |
| 435+0.000 | | -12.473 | 253.943 | -1.46 | -10.017 | 251.486 | 1.000 | -6.02 | 252.486 | 2.26 | 252.775 | 252.810 | -0.035 | 6.07 | 252.199 | 1.00 | 12.78 | 253.913 | -1.714 |
| 436+0.000 | | -12.614 | 254.368 | -1.60 | -10.017 | 251.771 | 1.000 | -6.02 | 252.771 | 2.24 | 253.061 | 252.959 | 0.102 | 6.07 | 252.485 | 1.00 | 12.68 | 254.099 | -1.614 |
| 437+0.000 | | -12.482 | 254.507 | -1.47 | -10.017 | 252.042 | 1.000 | -6.02 | 253.042 | 2.22 | 253.334 | 253.251 | 0.083 | 6.07 | 252.757 | 1.00 | 12.58 | 254.272 | -1.515 |
| 438+0.000 | | -12.301 | 254.597 | -1.28 | -10.017 | 252.314 | 1.000 | -6.02 | 253.314 | 2.20 | 253.606 | 253.446 | 0.161 | 6.07 | 253.029 | 1.00 | 12.55 | 254.516 | -1.487 |
| 439+0.000 | | -12.318 | 254.886 | -1.30 | -10.017 | 252.585 | 1.000 | -6.02 | 253.585 | 2.18 | 253.879 | 253.658 | 0.220 | 6.07 | 253.302 | 1.00 | 12.36 | 254.589 | -1.287 |
| 440+0.000 | | -12.312 | 255.151 | -1.30 | -10.017 | 252.856 | 1.000 | -6.02 | 253.856 | 2.16 | 254.151 | 253.921 | 0.230 | 6.07 | 253.574 | 1.00 | 12.28 | 254.783 | -1.209 |
| 441+0.000 | | -11.990 | 255.100 | -0.97 | -10.018 | 253.127 | 1.000 | -6.02 | 254.127 | 2.14 | 254.424 | 253.907 | 0.516 | 6.07 | 253.846 | 1.00 | 12.13 | 254.904 | -1.058 |
| 442+0.000 | | -11.891 | 255.272 | -0.87 | -10.018 | 253.399 | 1.000 | -6.02 | 254.399 | 2.12 | 254.696 | 254.203 | 0.493 | 6.07 | 254.119 | 1.00 | 11.96 | 255.014 | -0.895 |
| 443+0.000 | | -11.750 | 255.402 | -0.73 | -10.018 | 253.670 | 1.000 | -6.02 | 254.670 | 2.10 | 254.968 | 254.377 | 0.592 | 6.07 | 254.391 | 1.00 | 11.80 | 255.126 | -0.735 |
| 444+0.000 | | -11.496 | 255.419 | -0.48 | -10.018 | 253.941 | 1.000 | -6.02 | 254.941 | 2.08 | 255.241 | 254.569 | 0.671 | 6.07 | 254.663 | 1.00 | 11.72 | 255.314 | -0.651 |
| 446+0.000 | | -11.021 | 255.486 | 0.00 | -10.019 | 254.484 | 1.000 | -6.02 | 255.484 | 2.04 | 255.786 | 254.925 | 0.860 | 6.07 | 255.208 | 1.00 | 11.45 | 255.589 | -0.381 |
| 447+0.000 | | -10.839 | 255.576 | 0.18 | -10.019 | 254.755 | 1.000 | -6.02 | 255.755 | 2.02 | 256.058 | 255.064 | 0.994 | 6.07 | 255.480 | 1.00 | 11.35 | 255.761 | -0.281 |
| 448+0.000 | | -10.838 | 255.846 | 0.18 | -10.019 | 255.026 | 1.000 | -6.02 | 256.026 | 2.00 | 256.330 | 255.292 | 1.039 | 6.07 | 255.752 | 1.00 | 11.25 | 255.935 | -0.183 |
| 448+5.991 | PC | -10.693 | 255.782 | 0.33 | -10.019 | 255.107 | 1.000 | -6.02 | 256.107 | 2.00 | 256.412 | 255.358 | 1.054 | 6.07 | 255.834 | 1.00 | 11.19 | 255.956 | -0.122 |
| 449+0.000 | | -11.419 | 256.109 | 0.20 | -10.619 | 255.309 | 1.000 | -6.62 | 256.309 | 1.98 | 256.603 | 255.492 | 1.111 | 6.67 | 256.012 | 1.00 | 11.70 | 256.045 | -0.033 |
| 449+0.618 | | -11.431 | 256.130 | 0.19 | -10.619 | 255.318 | 1.000 | -6.62 | 256.318 | 1.98 | 256.611 | 255.491 | 1.120 | 6.67 | 256.020 | 1.00 | 11.70 | 256.052 | -0.032 |
| 449+15.245 | PT | -10.756 | 256.241 | 0.26 | -10.019 | 255.504 | 1.000 | -6.02 | 256.504 | 1.97 | 256.811 | 255.553 | 1.258 | 6.07 | 256.232 | 1.00 | 11.12 | 256.289 | -0.057 |
| 450+0.000 | | -10.695 | 256.244 | 0.32 | -10.019 | 255.569 | 1.000 | -6.02 | 256.569 | 1.96 | 256.875 | 255.589 | 1.286 | 6.07 | 256.297 | 1.00 | 11.08 | 256.310 | -0.013 |
| 451+0.000 | | -10.819 | 256.639 | 0.20 | -10.019 | 255.840 | 1.000 | -6.02 | 256.840 | 1.94 | 257.148 | 255.721 | 1.427 | 6.07 | 256.569 | 1.00 | 10.90 | 256.398 | 0.171 |
| 452+0.000 | | -10.781 | 256.873 | 0.24 | -10.020 | 256.111 | 1.000 | -6.02 | 257.111 | 1.93 | 257.420 | 256.007 | 1.413 | 6.07 | 256.842 | 1.00 | 10.81 | 256.582 | 0.260 |
| 453+0.000 | | -10.872 | 257.234 | 0.15 | -10.020 | 256.382 | 1.000 | -6.02 | 257.382 | 1.91 | 257.693 | 256.268 | 1.425 | 6.07 | 257.114 | 1.00 | 10.82 | 256.865 | 0.249 |
| 454+0.000 | | -10.876 | 257.510 | 0.14 | -10.020 | 256.654 | 1.000 | -6.02 | 257.654 | 1.89 | 257.965 | 256.509 | 1.456 | 6.07 | 257.386 | 1.00 | 10.95 | 257.265 | 0.121 |
| 455+0.000 | | -11.032 | 257.936 | -0.01 | -10.020 | 256.925 | 1.000 | -6.02 | 257.925 | 1.87 | 258.237 | 256.811 | 1.426 | 6.07 | 257.659 | 1.00 | 10.98 | 257.569 | 0.090 |
| 456+0.000 | | -10.988 | 258.164 | 0.03 | -10.020 | 257.196 | 1.000 | -6.02 | 258.196 | 1.85 | 258.510 | 257.120 | 1.390 | 6.07 | 257.931 | 1.00 | 10.75 | 257.608 | 0.323 |
| 457+0.000 | | -11.195 | 258.642 | -0.18 | -10.020 | 257.467 | 1.000 | -6.02 | 258.467 | 1.83 | 258.782 | 257.437 | 1.345 | 6.07 | 258.203 | 1.00 | 11.11 | 258.244 | -0.041 |
| 458+0.000 | | -11.140 | 258.858 | -0.12 | -10.021 | 257.739 | 1.000 | -6.02 | 258.739 | 1.81 | 259.055 | 257.719 | 1.336 | 6.07 | 258.476 | 1.00 | 11.07 | 258.476 | 0.000 |
| 459+0.000 | | -11.243 | 259.232 | -0.22 | -10.021 | 258.010 | 1.000 | -6.02 | 259.010 | 1.79 | 259.327 | 258.104 | 1.223 | 6.07 | 258.748 | 1.00 | 11.10 | 258.783 | -0.035 |
| 460+0.000 | | -11.166 | 259.426 | -0.14 | -10.021 | 258.281 | 1.000 | -6.02 | 259.281 | 1.77 | 259.600 | 258.538 | 1.062 | 6.07 | 259.020 | 1.00 | 11.41 | 259.365 | -0.345 |
| 461+0.000 | | -11.556 | 260.088 | -0.54 | -10.021 | 258.552 | 1.000 | -6.02 | 259.552 | 1.75 | 259.872 | 259.105 | 0.767 | 6.07 | 259.292 | 1.00 | 11.65 | 259.869 | -0.577 |
| 462+0.000 | | -11.770 | 260.572 | -0.75 | -10.021 | 258.824 | 1.000 | -6.02 | 259.824 | 1.73 | 260.144 | 259.532 | 0.612 | 6.07 | 259.565 | 1.00 | 11.77 | 260.269 | -0.704 |
| 463+0.000 | | -11.809 | 260.882 | -0.79 | -10.022 | 259.095 | 1.000 | -6.02 | 260.095 | 1.71 | 260.417 | 259.738 | 0.679 | 6.07 | 259.837 | 1.00 | 11.76 | 260.529 | -0.692 |
| 464+0.000 | | -11.918 | 261.262 | -0.90 | -10.022 | 259.366 | 1.000 | -6.02 | 260.366 | 1.69 | 260.689 | 260.021 | 0.668 | 6.07 | 260.109 | 1.00 | 11.96 | 260.997 | -0.888 |
| 465+0.000 | | -12.124 | 261.739 | -1.10 | -10.022 | 259.637 | 1.000 | -6.02 | 260.637 | 1.67 | 260.962 | 260.407 | 0.555 | 6.07 | 260.382 | 1.00 | 12.00 | 261.309 | -0.927 |
| 466+0.000 | | -12.084 | 261.970 | -1.06 | -10.022 | 259.909 | 1.000 | -6.02 | 260.909 | 1.65 | 261.234 | 260.953 | 0.281 | 6.07 | 260.654 | 1.00 | 12.20 | 261.785 | -1.131 |
| 467+0.000 | | -12.028 | 262.186 | -1.01 | -10.022 | 260.180 | 1.000 | -6.02 | 261.180 | 1.63 | 261.507 | 261.598 | -0.091 | 6.07 | 260.926 | 1.00 | 12.22 | 262.073 | -1.147 |
| 468+0.000 | | -12.299 | 262.728 | -1.28 | -10.022 | 260.451 | 1.000 | -6.02 | 261.451 | 1.61 | 261.779 | 261.999 | -0.220 | 6.07 | 261.199 | 1.00 | 12.35 | 262.481 | -1.282 |
| 469+0.000 | | -12.273 | 262.973 | -1.25 | -10.023 | 260.722 | 1.000 | -6.02 | 261.722 | 1.59 | 262.051 | 262.225 | -0.174 | 6.07 | 261.471 | 1.00 | 12.33 | 262.728 | -1.257 |
| 470+0.000 | | -12.293 | 263.264 | -1.27 | -10.023 | 260.994 | 1.000 | -6.02 | 261.994 | 1.57 | 262.324 | 262.446 | -0.122 | 6.07 | 261.743 | 1.00 | 12.11 | 262.789 | -1.046 |
| 471+0.000 | | -12.470 | 263.712 | -1.45 | -10.023 | 261.265 | 1.000 | -6.02 | 262.265 | 1.55 | 262.596 | 262.563 | 0.033 | 6.07 | 262.016 | 1.00 | 12.53 | 263.476 | -1.460 |
| 472+0.000 | | -12.555 | 264.067 | -1.53 | -10.023 | 261.536 | 1.000 | -6.02 | 262.536 | 1.53 | 262.869 | 262.675 | 0.194 | 6.07 | 262.288 | 1.00 | 12.42 | 263.641 | -1.353 |
| 473+0.000 | | -12.491 | 264.275 | -1.47 | -10.023 | 261.807 | 1.000 | -6.02 | 262.807 | 1.51 | 263.141 | 262.924 | 0.217 | 6.07 | 262.580 | 1.00 | 12.45 | 263.940 | -1.380 |
| 474+0.000 | | -12.512 | 264.567 | -1.49 | -10.024 | 262.079 | 1.000 | -6.02 | 263.079 | 1.50 | 263.413 | 263.278 | 0.136 | 6.07 | 262.832 | 1.00 | 12.50 | 264.268 | -1.436 |
| 475+0.000 | | -12.436 | 264.762 | -1.41 | -10.024 | 262.350 | 1.000 | -6.02 | 263.350 | 1.48 | 263.686 | 263.558 | 0.128 | 6.07 | 263.105 | 1.00 | 12.64 | 264.679 | -1.574 |
| 476+0.000 | | -12.461 | 265.058 | -1.44 | -10.024 | 262.621 | 1.000 | -6.02 | 263.621 | 1.46 | 263.958 | 263.823 | 0.136 | 6.07 | 263.377 | 1.00 | 12.42 | 264.725 | -1.348 |
| 477+0.000 | | -12.380 | 265.249 | -1.36 | -10.024 | 262.892 | 1.000 | -6.02 | 263.892 | 1.44 | 264.231 | 264.110 | 0.121 | 6.07 | 263.649 | 1.00 | 12.42 | 265.006 | -1.357 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontales | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | | | | | | | |
|-----------|------------------------|---------------|---------|---------------|---------|---------|-------|--------------|---------|--------------|---------|--------------|--------|------|---------|-------|-------|--------|------|-------|---------|--------|
| | | Falso Alente | | Bordo (Pt 03) | | Cota | | Falso Alente | | Bordo (Pt04) | | Falso Alente | | | | | | | | | | |
| | | Alt | Offset | Alt | Cota | Alt | Cota | Alt | Cota | Alt | Cota | Alt | Cota | | | | | | | | | |
| MT-206 | | | | | | | | | | | | | | | | | | | | | | |
| 478+0.000 | | -12.314 | 265.454 | -1,29 | -10,024 | 263,164 | 1,000 | -6,02 | 264,164 | 1,42 | 264,503 | 264,634 | -0,130 | 6,07 | 263,922 | -3,00 | 10,07 | 262,92 | 1,00 | 12,46 | 265,317 | -1,395 |
| 479+0.000 | | -12.446 | 265.856 | -1,42 | -10,024 | 263,435 | 1,000 | -6,02 | 264,435 | 1,40 | 264,776 | 265,170 | -0,395 | 6,07 | 264,194 | -3,00 | 10,07 | 263,19 | 1,00 | 12,49 | 265,621 | -1,427 |
| 480+0.000 | | -12.351 | 266.016 | -1,33 | -10,025 | 263,690 | 1,000 | -6,03 | 264,690 | 1,38 | 265,032 | 265,236 | -0,205 | 6,07 | 264,450 | -3,00 | 10,07 | 263,45 | 1,00 | 12,33 | 265,710 | -1,260 |
| 481+0.000 | | -12.452 | 266.339 | -1,43 | -10,025 | 263,912 | 1,000 | -6,03 | 264,912 | 1,36 | 265,255 | 265,373 | -0,118 | 6,07 | 264,673 | -3,00 | 10,07 | 263,67 | 1,00 | 12,16 | 265,770 | -1,097 |
| 482+0.000 | | -12.637 | 266.714 | -1,61 | -10,025 | 264,101 | 1,000 | -6,03 | 265,101 | 1,34 | 265,446 | 265,701 | -0,256 | 6,07 | 264,864 | -3,00 | 10,07 | 263,86 | 1,00 | 12,42 | 266,220 | -1,356 |
| 483+0.000 | | -11.885 | 266.119 | -0,86 | -10,025 | 264,258 | 1,000 | -6,03 | 265,258 | 1,32 | 265,604 | 265,809 | -0,206 | 6,07 | 265,022 | -3,00 | 10,07 | 264,02 | 1,00 | 12,45 | 266,400 | -1,378 |
| 484+0.000 | | -12.147 | 266.504 | -1,12 | -10,025 | 264,382 | 1,000 | -6,03 | 265,382 | 1,30 | 265,729 | 265,756 | -0,027 | 6,07 | 265,147 | -3,00 | 10,07 | 264,15 | 1,00 | 12,42 | 266,501 | -1,354 |
| 485+0.000 | | -12.531 | 266.980 | -1,51 | -10,025 | 264,474 | 1,000 | -6,03 | 265,474 | 1,28 | 265,822 | 265,867 | -0,045 | 6,07 | 265,239 | -3,00 | 10,07 | 264,24 | 1,00 | 12,47 | 266,638 | -1,399 |
| 486+0.000 | | -12.622 | 267.129 | -1,60 | -10,026 | 264,533 | 1,000 | -6,03 | 265,533 | 1,26 | 265,882 | 266,134 | -0,252 | 6,07 | 265,299 | -3,00 | 10,07 | 264,30 | 1,00 | 12,53 | 266,763 | -1,464 |
| 487+0.000 | | -12.708 | 267.241 | -1,68 | -10,026 | 264,559 | 1,000 | -6,03 | 265,559 | 1,24 | 265,909 | 266,252 | -0,344 | 6,07 | 265,326 | -3,00 | 10,07 | 264,33 | 1,00 | 12,52 | 266,780 | -1,454 |
| 488+0.000 | | -12.589 | 267.115 | -1,56 | -10,026 | 264,552 | 1,000 | -6,03 | 265,552 | 1,22 | 265,903 | 266,129 | -0,226 | 6,07 | 265,321 | -3,00 | 10,07 | 264,32 | 1,00 | 12,57 | 266,825 | -1,504 |
| 489+0.000 | | -12.587 | 267.074 | -1,56 | -10,026 | 264,513 | 1,000 | -6,03 | 265,513 | 1,20 | 265,865 | 266,448 | -0,583 | 6,07 | 265,282 | -3,00 | 10,07 | 264,28 | 1,00 | 12,63 | 266,849 | -1,567 |
| 490+0.000 | | -12.569 | 266.983 | -1,54 | -10,026 | 264,441 | 1,000 | -6,03 | 265,441 | 1,18 | 265,794 | 265,907 | -0,113 | 6,07 | 265,211 | -3,00 | 10,07 | 264,21 | 1,00 | 12,62 | 266,762 | -1,551 |
| 491+0.000 | | -12.578 | 266.887 | -1,55 | -10,027 | 264,336 | 1,000 | -6,03 | 265,336 | 1,16 | 265,691 | 265,910 | -0,219 | 6,07 | 265,108 | -3,00 | 10,07 | 264,11 | 1,00 | 12,81 | 266,845 | -1,737 |
| 492+0.000 | | -12.687 | 266.858 | -1,66 | -10,027 | 264,198 | 1,000 | -6,03 | 265,198 | 1,14 | 265,554 | 265,829 | -0,274 | 6,07 | 264,971 | -3,00 | 10,07 | 263,97 | 1,00 | 12,80 | 266,702 | -1,731 |
| 493+0.000 | | -12.807 | 266.808 | -1,78 | -10,027 | 264,028 | 1,000 | -6,03 | 265,028 | 1,12 | 265,385 | 265,613 | -0,228 | 6,07 | 264,802 | -3,00 | 10,07 | 263,80 | 1,00 | 12,80 | 266,536 | -1,734 |
| 494+0.000 | | -12.737 | 266.535 | -1,71 | -10,027 | 263,825 | 1,000 | -6,03 | 264,825 | 1,10 | 265,184 | 265,614 | -0,430 | 6,07 | 264,601 | -3,00 | 10,07 | 263,60 | 1,00 | 12,93 | 266,462 | -1,861 |
| 495+0.000 | | -12.765 | 266.327 | -1,74 | -10,027 | 263,590 | 1,000 | -6,03 | 264,590 | 1,09 | 264,950 | 265,593 | -0,644 | 6,07 | 264,366 | -3,00 | 10,07 | 263,37 | 1,00 | 12,95 | 266,248 | -1,892 |
| 496+0.000 | | -12.027 | 265.321 | -1,00 | -10,027 | 263,322 | 1,000 | -6,03 | 264,322 | 1,07 | 264,682 | 264,974 | -0,291 | 6,07 | 264,099 | -3,00 | 10,07 | 263,10 | 1,00 | 12,85 | 265,876 | -1,777 |
| 497+0.000 | | -12.468 | 265.461 | -1,44 | -10,028 | 263,021 | 1,000 | -6,03 | 264,021 | 1,05 | 264,383 | 264,909 | -0,526 | 6,07 | 263,799 | -3,00 | 10,07 | 262,80 | 1,00 | 12,93 | 265,662 | -1,863 |
| 498+0.000 | | -12.967 | 265.627 | -1,94 | -10,028 | 262,687 | 1,000 | -6,03 | 263,687 | 1,03 | 264,050 | 264,760 | -0,709 | 6,07 | 263,467 | -3,00 | 10,07 | 262,47 | 1,00 | 13,16 | 265,554 | -2,087 |
| 499+0.000 | | -13.246 | 265.539 | -2,22 | -10,028 | 262,321 | 1,000 | -6,03 | 263,321 | 1,01 | 263,685 | 264,368 | -0,683 | 6,07 | 263,101 | -3,00 | 10,07 | 262,10 | 1,00 | 13,21 | 265,239 | -2,138 |
| 500+0.000 | | -13.142 | 265.036 | -2,11 | -10,028 | 261,922 | 1,000 | -6,03 | 262,922 | 0,99 | 263,287 | 264,133 | -0,845 | 6,07 | 262,703 | -3,00 | 10,07 | 261,70 | 1,00 | 13,23 | 264,863 | -2,160 |
| 501+0.000 | | -13.414 | 264.878 | -2,39 | -10,028 | 261,490 | 1,000 | -6,03 | 262,490 | 0,97 | 262,857 | 263,890 | -1,033 | 6,07 | 262,273 | -3,00 | 10,07 | 261,27 | 1,00 | 13,53 | 264,738 | -2,465 |
| 502+0.000 | | -13.553 | 264.551 | -2,52 | -10,029 | 261,026 | 1,000 | -6,03 | 262,026 | 0,95 | 262,394 | 263,746 | -1,352 | 6,07 | 261,810 | -3,00 | 10,07 | 260,81 | 1,00 | 13,55 | 264,293 | -2,483 |
| 503+0.000 | | -13.643 | 264.143 | -2,61 | -10,029 | 260,529 | 1,000 | -6,03 | 261,529 | 0,93 | 261,898 | 262,400 | -1,503 | 6,07 | 261,314 | -3,00 | 10,07 | 260,31 | 1,00 | 13,48 | 263,730 | -2,416 |
| 504+0.000 | | -13.402 | 263.372 | -2,37 | -10,029 | 259,999 | 1,000 | -6,03 | 260,999 | 0,91 | 261,369 | 262,504 | -1,135 | 6,07 | 260,785 | -3,00 | 10,07 | 259,79 | 1,00 | 13,62 | 263,340 | -2,555 |
| 505+0.000 | | -13.241 | 262.665 | -2,21 | -10,029 | 259,453 | 1,000 | -6,03 | 260,453 | 0,89 | 260,824 | 261,733 | -0,909 | 6,07 | 260,240 | -3,00 | 10,07 | 259,24 | 1,00 | 13,60 | 262,769 | -2,529 |
| 506+0.000 | | -13.429 | 262.307 | -2,40 | -10,029 | 258,907 | 1,000 | -6,03 | 259,907 | 0,87 | 260,279 | 261,226 | -0,947 | 6,07 | 259,695 | -3,00 | 10,07 | 258,70 | 1,00 | 13,71 | 262,332 | -2,637 |
| 507+0.000 | | -13.644 | 261.975 | -2,61 | -10,029 | 258,361 | 1,000 | -6,03 | 259,361 | 0,85 | 259,734 | 260,613 | -0,878 | 6,07 | 259,150 | -3,00 | 10,07 | 258,15 | 1,00 | 13,67 | 261,750 | -2,600 |
| 508+0.000 | | -13.457 | 261.242 | -2,43 | -10,030 | 257,815 | 1,000 | -6,03 | 258,815 | 0,83 | 259,190 | 259,955 | -0,765 | 6,07 | 258,605 | -3,00 | 10,07 | 257,61 | 1,00 | 13,73 | 261,270 | -2,665 |
| 509+0.000 | | -13.692 | 260.931 | -2,66 | -10,030 | 257,269 | 1,000 | -6,03 | 258,269 | 0,81 | 258,645 | 259,557 | -0,912 | 6,07 | 258,060 | -3,00 | 10,07 | 257,06 | 1,00 | 13,73 | 260,723 | -2,663 |
| 510+0.000 | | -13.815 | 260.508 | -2,79 | -10,030 | 256,722 | 1,000 | -6,03 | 257,722 | 0,79 | 258,100 | 258,971 | -0,871 | 6,07 | 257,515 | -3,00 | 10,07 | 256,52 | 1,00 | 13,73 | 260,179 | -2,664 |
| 511+0.000 | | -13.688 | 259.834 | -2,66 | -10,030 | 256,176 | 1,000 | -6,03 | 257,176 | 0,77 | 257,555 | 258,597 | -1,042 | 6,07 | 256,970 | -3,00 | 10,07 | 255,97 | 1,00 | 13,79 | 259,692 | -2,722 |
| 512+0.000 | | -13.633 | 259.233 | -2,60 | -10,030 | 255,630 | 1,000 | -6,03 | 256,630 | 0,75 | 257,010 | 258,216 | -1,206 | 6,07 | 256,425 | -3,00 | 10,07 | 255,43 | 1,00 | 13,80 | 259,159 | -2,734 |
| 513+0.000 | | -13.705 | 258.758 | -2,67 | -10,031 | 255,084 | 1,000 | -6,03 | 256,084 | 0,73 | 256,465 | 258,024 | -1,559 | 6,07 | 255,880 | -3,00 | 10,07 | 254,88 | 1,00 | 13,84 | 258,651 | -2,771 |
| 514+0.000 | | -14.073 | 258.580 | -3,04 | -10,031 | 254,538 | 1,000 | -6,03 | 255,538 | 0,71 | 255,920 | 257,757 | -1,837 | 6,07 | 255,334 | -3,00 | 10,07 | 254,33 | 1,00 | 13,78 | 258,051 | -2,717 |
| 515+0.000 | | -13.801 | 257.762 | -2,77 | -10,031 | 253,992 | 1,000 | -6,03 | 254,992 | 0,69 | 255,375 | 256,982 | -1,607 | 6,07 | 254,789 | -3,00 | 10,07 | 253,79 | 1,00 | 13,79 | 257,508 | -2,719 |
| 516+0.000 | | -12.989 | 256.404 | -1,96 | -10,031 | 253,446 | 1,000 | -6,03 | 254,446 | 0,67 | 254,830 | 255,886 | -1,055 | 6,07 | 254,244 | -3,00 | 10,07 | 253,24 | 1,00 | 13,61 | 256,785 | -2,541 |
| 517+0.000 | | -13.359 | 256.228 | -2,33 | -10,031 | 252,900 | 1,000 | -6,03 | 253,900 | 0,66 | 254,285 | 254,914 | -0,629 | 6,07 | 253,699 | -3,00 | 10,07 | 252,70 | 1,00 | 13,36 | 255,989 | -2,290 |
| 518+0.000 | | -13.305 | 255.627 | -2,27 | -10,031 | 252,354 | 1,000 | -6,03 | 253,354 | 0,64 | 253,740 | 254,250 | -0,510 | 6,07 | 253,154 | -3,00 | 10,07 | 252,15 | 1,00 | 13,18 | 255,265 | -2,111 |
| 519+0.000 | | -13.201 | 254.977 | -2,17 | -10,032 | 251,808 | 1,000 | -6,03 | 252,808 | 0,62 | 253,195 | 253,572 | -0,376 | 6,07 | 252,609 | -3,00 | 10,07 | 251,61 | 1,00 | 13,13 | 254,671 | -2,062 |
| 520+0.000 | | -12.890 | 254.119 | -1,86 | -10,032 | 251,261 | 1,000 | -6,03 | 252,261 | 0,60 | 252,650 | 252,806 | -0,156 | 6,07 | 252,064 | -3,00 | 10,07 | 251,06 | 1,00 | 12,97 | 253,967 | -1,903 |
| 521+0.000 | | -12.692 | 253.376 | -1,66 | -10,032 | 250,715 | 1,000 | -6,03 | 251,715 | 0,58 | 252,106 | 251,985 | 0,120 | 6,07 | 251,519 | -3,00 | 10,07 | 250,52 | 1,00 | 12,70 | 253,152 | -1,633 |
| 522+0.000 | | -12.528 | 252.665 | -1,50 | -10,032 | 250,169 | 1,000 | -6,03 | 251,169 | 0,56 | 251,561 | 251,288 | 0,272 | 6,07 | 250,974 | -3,00 | 10,07 | 249,97 | 1,00 | 12,48 | 252,391 | -1,417 |
| 523+0.000 | | -12.292 | 251.883 | -1,26 | -10,032 | 249,623 | 1,000 | -6,03 | 250,623 | 0,54 | 251,016 | 250,774 | 0,242 | 6,07 | 250,429 | -3,00 | 10,07 | 249,43 | 1,00 | 12,23 | 251,591 | -1,162 |
| 524+0.000 | | -11.880 | 250.924 | -0,85 | -10,033 | 249,077 | 1,000 | -6,03 | 250,077 | 0,52 | 250,471 | 250,281 | 0,190 | 6,07 | 249,884 | -3,00 | 10,07 | 248,88 | 1,00 | 12,12 | 250,932 | -1,048 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Exo | | | | Lado Direito | | | | | | | | | |
|-----------|-----------------------|---------------|---------|--------------|---------|---------|-------|----------|---------|--------------|---------|--------------|--------|------|---------|-------|-------|---------|--------|
| | | Falso Altero | | Bordo (P103) | | Cota | | Vermelha | | Falso Altero | | Bordo (P104) | | | | | | | |
| | | Alt | Alast | Cota | OffSET | Alt | Alast | Cota | % | Projeto | Terreno | Alt | Alast | Cota | OffSET | | | | |
| MT-206 | | | | | | | | | | | | | | | | | | | |
| 525+0.000 | | -11,387 | 249,885 | -0,35 | -10,033 | 248,531 | 1,000 | -6,03 | 249,531 | 0,50 | 249,926 | 249,403 | 0,523 | 6,07 | 249,339 | -3,00 | 11,56 | 249,831 | -0,492 |
| 526+0.000 | | -6,613 | 248,598 | 0,39 | | | | -6,03 | 248,985 | 0,48 | 249,381 | 247,772 | 1,609 | 6,07 | 248,794 | -3,00 | 6,33 | 248,617 | 0,177 |
| 527+0.000 | | -6,984 | 247,805 | 0,63 | | | | -6,03 | 248,439 | 0,46 | 248,836 | 246,391 | 2,445 | 6,07 | 248,249 | -3,00 | 7,58 | 247,244 | 1,005 |
| 528+0.000 | | -8,297 | 246,383 | 1,51 | | | | -6,03 | 247,893 | 0,44 | 248,291 | 244,804 | 3,487 | 6,07 | 247,704 | -3,00 | 8,42 | 246,133 | 1,571 |
| 529+0.000 | | -10,440 | 244,409 | 2,94 | | | | -6,03 | 247,346 | 0,42 | 247,746 | 243,213 | 4,533 | 6,07 | 247,159 | -3,00 | 10,52 | 244,194 | 2,965 |
| 530+0.000 | | -13,177 | 242,114 | 4,76 | | | | -6,03 | 246,877 | 0,40 | 247,278 | 241,820 | 5,457 | 6,07 | 246,690 | -3,00 | 12,52 | 242,386 | 4,304 |
| 531+0.000 | | -15,049 | 240,551 | 6,01 | | | | -6,03 | 246,561 | 0,38 | 246,963 | 241,009 | 5,953 | 6,07 | 246,375 | -3,00 | 13,37 | 241,508 | 4,867 |
| 532+0.000 | | -15,772 | 239,906 | 6,49 | | | | -6,03 | 246,387 | 0,36 | 246,801 | 240,971 | 5,829 | 6,07 | 246,213 | -3,00 | 14,42 | 240,648 | 5,565 |
| 533+0.000 | | -15,752 | 239,909 | 6,48 | | | | -6,03 | 246,387 | 0,34 | 246,792 | 241,092 | 5,700 | 6,07 | 246,204 | -3,00 | 14,97 | 240,267 | 5,937 |
| 534+0.000 | | -15,751 | 240,053 | 6,48 | | | | -6,03 | 246,531 | 0,32 | 246,936 | 241,229 | 5,707 | 6,07 | 246,348 | -3,00 | 15,52 | 240,048 | 6,300 |
| 535+0.000 | | -14,682 | 241,062 | 5,76 | | | | -6,04 | 246,827 | 0,30 | 247,234 | 241,782 | 5,452 | 6,07 | 246,646 | -3,00 | 13,04 | 241,996 | 4,851 |
| 536+0.000 | | -11,652 | 243,532 | 3,74 | | | | -6,04 | 247,276 | 0,28 | 247,684 | 242,623 | 5,061 | 6,07 | 247,096 | -3,00 | 9,83 | 244,590 | 2,506 |
| 537+0.000 | | -8,533 | 246,214 | 1,68 | | | | -6,04 | 247,879 | 0,26 | 248,288 | 244,209 | 4,079 | 6,07 | 247,700 | -3,00 | 8,18 | 246,291 | 1,409 |
| 538+0.000 | | -8,515 | 246,905 | 1,65 | | | | -6,04 | 248,558 | 0,24 | 248,969 | 246,075 | 2,894 | 6,07 | 248,380 | -3,00 | 7,55 | 247,391 | 0,989 |
| 539+0.000 | | -6,611 | 248,854 | 0,38 | | | | -6,04 | 249,238 | 0,23 | 249,649 | 247,745 | 1,904 | 6,07 | 249,061 | -3,00 | 6,81 | 248,565 | 0,496 |
| 540+0.000 | | -6,423 | 250,304 | -0,39 | | | | -6,04 | 249,917 | 0,21 | 250,330 | 249,326 | 1,003 | 6,07 | 249,741 | -3,00 | 6,62 | 250,291 | -0,550 |
| 541+0.000 | | -6,370 | 250,931 | -0,34 | | | | -6,04 | 250,596 | 0,19 | 251,010 | 250,071 | 0,939 | 6,07 | 250,421 | -3,00 | 6,14 | 250,495 | -0,074 |
| 542+0.000 | | -6,060 | 251,300 | -0,02 | | | | -6,04 | 251,276 | 0,17 | 251,691 | 250,585 | 1,106 | 6,07 | 251,102 | -3,00 | 6,46 | 251,495 | -0,393 |
| 543+0.000 | | -6,816 | 252,735 | -0,78 | | | | -6,04 | 251,955 | 0,15 | 252,371 | 251,229 | 1,142 | 6,07 | 251,782 | -3,00 | 6,41 | 252,129 | -0,347 |
| 544+0.000 | | -6,359 | 252,956 | -0,32 | | | | -6,04 | 252,634 | 0,13 | 253,051 | 252,028 | 1,023 | 6,07 | 252,462 | -3,00 | 6,92 | 253,319 | -0,857 |
| 545+0.000 | | -6,822 | 254,099 | -0,79 | | | | -6,04 | 253,313 | 0,11 | 253,732 | 252,900 | 0,832 | 6,07 | 253,143 | -3,00 | 6,96 | 254,037 | -0,894 |
| 546+0.000 | | -6,954 | 254,910 | -0,92 | | | | -6,04 | 253,993 | 0,09 | 254,412 | 253,878 | 0,535 | 6,07 | 253,823 | -3,00 | 7,37 | 255,121 | -1,298 |
| 547+0.000 | | -7,375 | 256,010 | -1,34 | | | | -6,04 | 254,672 | 0,07 | 255,093 | 255,123 | -0,031 | 6,07 | 254,504 | -3,00 | 7,52 | 255,959 | -1,455 |
| 548+0.000 | | -8,021 | 257,335 | -1,98 | | | | -6,04 | 255,351 | 0,05 | 255,773 | 256,407 | -0,634 | 6,07 | 255,184 | -3,00 | 8,11 | 257,224 | -2,040 |
| 549+0.000 | | -7,979 | 257,972 | -1,94 | | | | -6,04 | 256,031 | 0,03 | 256,454 | 257,066 | -0,612 | 6,07 | 255,864 | -3,00 | 7,65 | 257,441 | -1,577 |
| 550+0.000 | | -7,608 | 258,281 | -1,57 | | | | -6,04 | 256,710 | 0,01 | 257,134 | 257,503 | -0,369 | 6,07 | 256,545 | -3,00 | 7,50 | 257,977 | -1,432 |
| 551+0.000 | | -7,310 | 258,641 | -1,27 | | | | -6,04 | 257,369 | -0,01 | 257,794 | 257,907 | -0,113 | 6,07 | 257,205 | -3,00 | 7,42 | 258,561 | -1,356 |
| 552+0.000 | | -7,467 | 259,416 | -1,43 | | | | -6,04 | 257,987 | -0,03 | 258,414 | 258,380 | 0,034 | 6,07 | 257,824 | -3,00 | 7,14 | 258,891 | -1,067 |
| 553+0.000 | | -7,378 | 259,904 | -1,34 | | | | -6,04 | 258,564 | -0,05 | 258,992 | 258,932 | 0,060 | 6,07 | 258,402 | -3,00 | 7,32 | 259,657 | -1,255 |
| 554+0.000 | | -7,528 | 260,591 | -1,49 | | | | -6,04 | 259,101 | -0,07 | 259,530 | 259,633 | -0,103 | 6,07 | 258,940 | -3,00 | 6,98 | 259,856 | -0,916 |
| 555+0.000 | | -7,578 | 261,137 | -1,54 | | | | -6,04 | 259,597 | -0,09 | 260,028 | 260,329 | -0,301 | 6,07 | 259,437 | -3,00 | 7,72 | 261,086 | -1,649 |
| 556+0.000 | | -7,536 | 261,550 | -1,50 | | | | -6,04 | 260,053 | -0,11 | 260,484 | 260,936 | -0,452 | 6,07 | 259,894 | -3,00 | 7,51 | 261,340 | -1,446 |
| 557+0.000 | | -7,497 | 261,926 | -1,46 | | | | -6,04 | 260,467 | -0,13 | 260,900 | 261,018 | -0,118 | 6,07 | 260,310 | -3,00 | 7,26 | 261,505 | -1,195 |
| 558+0.000 | | -7,392 | 262,195 | -1,35 | | | | -6,04 | 260,841 | -0,15 | 261,275 | 261,396 | -0,121 | 6,07 | 260,685 | -3,00 | 7,27 | 261,888 | -1,203 |
| 559+0.000 | | -7,254 | 262,390 | -1,21 | | | | -6,04 | 261,175 | -0,17 | 261,610 | 261,559 | 0,051 | 6,07 | 261,019 | -3,00 | 7,15 | 262,104 | -1,085 |
| 560+0.000 | | -7,229 | 262,657 | -1,19 | | | | -6,04 | 261,467 | -0,19 | 261,903 | 261,755 | 0,148 | 6,07 | 261,313 | -3,00 | 6,76 | 262,006 | -0,893 |
| 561+0.000 | | -7,380 | 263,060 | -1,38 | | | | -6,04 | 261,719 | -0,20 | 262,156 | 261,870 | 0,287 | 6,07 | 261,566 | -3,00 | 6,92 | 262,418 | -0,852 |
| 562+0.000 | | -7,120 | 263,010 | -1,08 | | | | -6,04 | 261,930 | -0,22 | 262,369 | 262,069 | 0,300 | 6,07 | 261,778 | -3,00 | 7,03 | 262,742 | -0,964 |
| 563+0.000 | | -7,161 | 263,221 | -1,12 | | | | -6,04 | 262,101 | -0,24 | 262,540 | 262,307 | 0,233 | 6,07 | 261,949 | -3,00 | 6,86 | 262,744 | -0,795 |
| 564+0.000 | | -6,950 | 263,141 | -0,91 | | | | -6,04 | 262,230 | -0,26 | 262,671 | 262,412 | 0,259 | 6,07 | 262,080 | -3,00 | 6,94 | 262,950 | -0,870 |
| 565+0.000 | | -7,064 | 263,343 | -1,02 | | | | -6,04 | 262,319 | -0,28 | 262,762 | 262,512 | 0,250 | 6,07 | 262,170 | -3,00 | 6,82 | 262,927 | -0,757 |
| 566+0.000 | | -6,901 | 263,228 | -0,86 | | | | -6,04 | 262,368 | -0,30 | 262,811 | 262,541 | 0,270 | 6,07 | 262,220 | -3,00 | 6,95 | 263,097 | -0,877 |
| 567+0.000 | | -7,048 | 263,383 | -1,01 | | | | -6,04 | 262,375 | -0,32 | 262,820 | 262,643 | 0,177 | 6,07 | 262,228 | -3,00 | 6,89 | 263,047 | -0,819 |
| 568+0.000 | | -6,969 | 263,270 | -0,93 | | | | -6,04 | 262,342 | -0,34 | 262,788 | 262,601 | 0,187 | 6,07 | 262,196 | -3,00 | 6,96 | 263,084 | -0,888 |
| 569+0.000 | | -6,781 | 263,009 | -0,74 | | | | -6,04 | 262,269 | -0,36 | 262,715 | 262,438 | 0,277 | 6,07 | 262,124 | -3,00 | 6,87 | 262,928 | -0,804 |
| 570+0.000 | | -6,885 | 262,998 | -0,84 | | | | -6,04 | 262,154 | -0,38 | 262,602 | 262,247 | 0,355 | 6,07 | 262,010 | -3,00 | 6,78 | 262,725 | -0,715 |
| 571+0.000 | | -6,828 | 262,786 | -0,79 | | | | -6,04 | 261,999 | -0,40 | 262,448 | 262,005 | 0,443 | 6,07 | 261,856 | -3,00 | 6,91 | 262,695 | -0,839 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | |
|-----------|-----------------------|---------------|---------|---------------|--------|---------|-------|---------------|---------|--------------|------|---------|-------|------|---------|--------|
| | | OFFSET | | Bordo (Pt 03) | | Cota | | Bordo (Pt 04) | | Falso Alaró | | OFFSET | | | | |
| | | Alast | Cota | Alt | | Alast | Cota | Alt | | Alast | Cota | Alt | | | | |
| MT-206 | | | | | | | | | | | | | | | | |
| 572+0.000 | | -6.988 | 262.749 | -0.95 | -6.04 | 261.803 | -0.42 | 262.253 | 261.910 | 0.343 | 6.07 | 261.661 | -3.00 | 6.84 | 262.437 | -0.776 |
| 573+0.000 | | -6.792 | 262.317 | -0.75 | -6.04 | 261.566 | -0.44 | 262.018 | 261.717 | 0.300 | 6.07 | 261.426 | -3.00 | 7.00 | 262.363 | -0.937 |
| 574+0.000 | | -7.045 | 262.292 | -1.00 | -6.04 | 261.289 | -0.46 | 261.742 | 261.529 | 0.213 | 6.07 | 261.149 | -3.00 | 7.22 | 262.297 | -1.148 |
| 575+0.000 | | -6.914 | 261.843 | -0.87 | -6.04 | 260.971 | -0.48 | 261.425 | 261.167 | 0.258 | 6.07 | 260.832 | -3.00 | 7.34 | 262.104 | -1.272 |
| 576+0.000 | | -6.881 | 261.451 | -0.84 | -6.04 | 260.612 | -0.50 | 261.067 | 260.827 | 0.240 | 6.07 | 260.475 | -3.00 | 7.37 | 261.773 | -1.298 |
| 577+0.000 | | -7.227 | 261.397 | -1.18 | -6.04 | 260.213 | -0.52 | 260.669 | 260.384 | 0.285 | 6.07 | 260.076 | -3.00 | 7.41 | 261.421 | -1.345 |
| 578+0.000 | | -7.230 | 260.960 | -1.19 | -6.04 | 259.773 | -0.54 | 260.230 | 259.902 | 0.328 | 6.07 | 259.637 | -3.00 | 7.56 | 261.127 | -1.490 |
| 579+0.000 | | -7.479 | 260.749 | -1.44 | -6.04 | 259.312 | -0.56 | 259.771 | 259.519 | 0.252 | 6.07 | 259.178 | -3.00 | 7.56 | 260.675 | -1.497 |
| 580+0.000 | | -7.254 | 260.063 | -1.21 | -6.04 | 258.852 | -0.58 | 259.311 | 259.055 | 0.266 | 6.07 | 258.718 | -3.00 | 7.75 | 260.401 | -1.683 |
| 581+0.000 | | -7.378 | 259.726 | -1.33 | -6.04 | 258.391 | -0.60 | 258.852 | 258.630 | 0.222 | 6.07 | 258.259 | -3.00 | 7.63 | 259.822 | -1.563 |
| 582+0.000 | | -7.135 | 259.022 | -1.09 | -6.04 | 257.931 | -0.61 | 258.393 | 258.177 | 0.216 | 6.07 | 257.800 | -3.00 | 7.79 | 259.521 | -1.721 |
| 583+0.000 | | -7.263 | 258.689 | -1.22 | -6.04 | 257.470 | -0.63 | 257.934 | 257.841 | 0.093 | 6.07 | 257.340 | -3.00 | 7.76 | 259.036 | -1.696 |
| 584+0.000 | | -7.314 | 258.280 | -1.27 | -6.04 | 257.010 | -0.65 | 257.474 | 257.302 | 0.172 | 6.07 | 256.881 | -3.00 | 7.84 | 258.650 | -1.769 |
| 585+0.000 | | -7.476 | 257.981 | -1.43 | -6.04 | 256.549 | -0.67 | 257.015 | 256.880 | 0.135 | 6.07 | 256.421 | -3.00 | 7.87 | 258.221 | -1.800 |
| 586+0.000 | | -7.317 | 257.362 | -1.27 | -6.04 | 256.089 | -0.69 | 256.556 | 256.425 | 0.131 | 6.07 | 255.962 | -3.00 | 7.77 | 257.660 | -1.698 |
| 587+0.000 | | -7.216 | 256.800 | -1.17 | -6.04 | 255.628 | -0.71 | 256.096 | 255.981 | 0.115 | 6.07 | 255.502 | -3.00 | 7.71 | 257.148 | -1.646 |
| 588+0.000 | | -7.041 | 256.165 | -1.00 | -6.05 | 255.168 | -0.73 | 255.637 | 255.434 | 0.203 | 6.07 | 255.043 | -3.00 | 7.42 | 256.397 | -1.354 |
| 589+0.000 | | -6.825 | 255.287 | -0.58 | -6.05 | 254.707 | -0.75 | 255.178 | 254.818 | 0.359 | 6.07 | 254.584 | -3.00 | 7.27 | 255.788 | -1.204 |
| 590+0.000 | | -7.127 | 255.329 | -1.08 | -6.05 | 254.247 | -0.77 | 254.718 | 254.374 | 0.345 | 6.07 | 254.124 | -3.00 | 7.23 | 255.289 | -1.165 |
| 591+0.000 | | -6.955 | 254.696 | -0.91 | -6.05 | 253.786 | -0.79 | 254.259 | 253.887 | 0.371 | 6.07 | 253.665 | -3.00 | 7.45 | 255.050 | -1.385 |
| 592+0.000 | | -7.097 | 254.377 | -1.05 | -6.05 | 253.326 | -0.81 | 253.800 | 253.455 | 0.345 | 6.07 | 253.205 | -3.00 | 7.26 | 254.393 | -1.188 |
| 593+0.000 | | -6.839 | 253.659 | -0.79 | -6.05 | 252.865 | -0.83 | 253.340 | 252.949 | 0.392 | 6.07 | 252.746 | -3.00 | 7.20 | 253.879 | -1.133 |
| 594+0.000 | | -6.914 | 253.273 | -0.87 | -6.05 | 252.405 | -0.85 | 252.881 | 252.538 | 0.343 | 6.07 | 252.286 | -3.00 | 7.00 | 253.219 | -0.933 |
| 595+0.000 | | -7.064 | 252.963 | -1.02 | -6.05 | 251.944 | -0.87 | 252.422 | 252.064 | 0.358 | 6.07 | 251.827 | -3.00 | 7.11 | 252.869 | -1.042 |
| 596+0.000 | | -7.441 | 252.346 | -0.87 | -6.57 | 251.479 | -0.89 | 251.962 | 251.584 | 0.378 | 6.07 | 251.368 | -3.00 | 6.91 | 252.207 | -0.839 |
| 597+0.000 | | -13.644 | 251.873 | -0.91 | -12.73 | 250.962 | -0.91 | 251.503 | 251.325 | 0.178 | 6.19 | 250.905 | -3.00 | 7.02 | 251.742 | -0.837 |
| 598+0.000 | | -13.644 | 251.414 | -0.91 | -12.73 | 250.503 | -0.91 | 251.044 | 250.523 | 0.521 | 6.19 | 250.445 | -3.00 | 7.02 | 251.283 | -0.838 |
| 599+0.000 | | -13.644 | 250.954 | -0.91 | -12.73 | 250.044 | -0.91 | 250.584 | 250.347 | 0.238 | 6.19 | 249.986 | -3.00 | 7.02 | 250.824 | -0.838 |
| 600+0.000 | | | | | | | | | | | | | | | | |
| 600+3.576 | | | | | | | | | | | | | | | | |
| 601+0.000 | | | | | | | | | | | | | | | | |
| 602+0.000 | | | | | | | | | | | | | | | | |
| 603+0.000 | | | | | | | | | | | | | | | | |
| 604+0.000 | | | | | | | | | | | | | | | | |
| 605+0.000 | | -7.070 | 248.361 | -1.02 | -6.05 | 247.339 | -1.06 | 247.829 | 247.618 | 0.211 | 6.07 | 247.233 | -3.00 | 7.36 | 248.527 | -1.294 |
| 606+0.000 | | -7.554 | 248.385 | -1.51 | -6.05 | 246.879 | -1.08 | 247.369 | 247.286 | 0.083 | 6.07 | 246.773 | -3.00 | 7.88 | 248.580 | -1.807 |
| 607+0.000 | | -7.461 | 247.831 | -1.41 | -6.05 | 246.418 | -1.10 | 246.910 | 246.588 | 0.322 | 6.07 | 246.314 | -3.00 | 7.10 | 247.348 | -1.034 |
| 608+0.000 | | -6.572 | 246.481 | -0.52 | -6.05 | 245.958 | -1.12 | 246.451 | 246.120 | 0.330 | 6.07 | 245.854 | -3.00 | 6.99 | 246.781 | -0.927 |
| 609+0.000 | | -6.922 | 246.371 | -0.87 | -6.05 | 245.497 | -1.14 | 245.991 | 245.625 | 0.366 | 6.07 | 245.395 | -3.00 | 7.24 | 246.565 | -1.170 |
| 610+0.000 | | -7.546 | 246.534 | -1.50 | -6.05 | 245.037 | -1.16 | 245.532 | 245.313 | 0.219 | 6.07 | 244.936 | -3.00 | 7.40 | 246.264 | -1.328 |
| 611+0.000 | | -6.953 | 245.481 | -0.91 | -6.05 | 244.576 | -1.18 | 245.073 | 244.838 | 0.235 | 6.07 | 244.476 | -3.00 | 7.18 | 245.590 | -1.114 |
| 612+0.000 | | -6.090 | 244.156 | -0.04 | -6.05 | 244.116 | -1.20 | 244.613 | 244.179 | 0.434 | 6.07 | 244.017 | -3.00 | 6.83 | 244.777 | -0.760 |
| 613+0.000 | | -6.321 | 243.926 | -0.27 | -6.05 | 243.655 | -1.22 | 244.154 | 243.716 | 0.438 | 6.07 | 243.557 | -3.00 | 6.64 | 244.128 | -0.571 |
| 614+0.000 | | -6.072 | 243.217 | -0.02 | -6.05 | 243.195 | -1.24 | 243.695 | 242.737 | 0.957 | 6.07 | 243.098 | -3.00 | 6.66 | 243.685 | -0.587 |
| 615+0.000 | | -6.926 | 242.150 | 0.58 | -6.05 | 242.734 | -1.26 | 243.235 | 241.756 | 1.480 | 6.07 | 242.638 | -3.00 | 6.76 | 242.174 | 0.464 |
| 616+0.000 | | -8.182 | 240.922 | 1.42 | -6.05 | 242.344 | -1.28 | 242.846 | 240.994 | 1.852 | 6.07 | 242.249 | -3.00 | 7.92 | 241.014 | 1.235 |
| 617+0.000 | | -8.703 | 240.326 | 1.77 | -6.05 | 242.094 | -1.30 | 242.598 | 240.733 | 1.865 | 6.07 | 242.001 | -3.00 | 8.55 | 240.345 | 1.656 |

ROTATÓRIA 02

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontales | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | | | |
|-----------|------------------------|---------------|---------|---------------|--|---------------|---------|---------------|---------|---------------|----------|-------|---------|-------|-------|-------|---------|--------|
| | | OFFSET | | Bordo (Pt 03) | | Bordo (Pt 04) | | Bordo (Pt 04) | | Falso Alarrio | | | | | | | | |
| | | Alast | Cota | Alt | | Alast | Cota | % | Projeto | Terreno | Vermelha | Alast | Cota | Alt | Alast | Cota | Alt | |
| MT-206 | | | | | | | | | | | | | | | | | | |
| 618+0.000 | | -9,132 | 239,931 | 2,05 | | -6,05 | 241,986 | -1,32 | 242,490 | 240,542 | 1,949 | 6,07 | 241,893 | -3,00 | | 10,14 | 239,179 | 2,714 |
| 619+0.000 | | -9,654 | 239,615 | 2,40 | | -6,05 | 242,017 | -1,34 | 242,523 | 240,439 | 2,085 | 6,07 | 241,926 | -3,00 | | 11,09 | 238,576 | 3,350 |
| 620+0.000 | | -9,464 | 239,914 | 2,28 | | -6,05 | 242,190 | -1,36 | 242,697 | 240,415 | 2,282 | 6,07 | 242,099 | -3,00 | | 10,62 | 239,062 | 3,037 |
| 621+0.000 | | -9,334 | 240,314 | 2,19 | | -6,05 | 242,503 | -1,38 | 243,011 | 240,754 | 2,257 | 6,07 | 242,414 | -3,00 | | 8,98 | 240,470 | 1,944 |
| 622+0.000 | | -7,582 | 241,936 | 1,02 | | -6,05 | 242,957 | -1,40 | 243,466 | 241,470 | 1,996 | 6,07 | 242,868 | -3,00 | | 7,55 | 241,884 | 0,984 |
| 623+0.000 | | -7,065 | 242,875 | 0,68 | | -6,05 | 243,551 | -1,42 | 244,062 | 242,450 | 1,612 | 6,07 | 243,464 | -3,00 | | 6,54 | 243,147 | 0,317 |
| 624+0.000 | | -6,367 | 244,532 | -0,32 | | -6,05 | 244,216 | -1,44 | 244,728 | 243,747 | 0,981 | 6,07 | 244,130 | -3,00 | | 6,69 | 244,748 | -0,618 |
| 625+0.000 | | -6,995 | 245,824 | -0,94 | | -6,05 | 244,880 | -1,46 | 245,393 | 244,990 | 0,403 | 6,07 | 244,795 | -3,00 | | 6,57 | 245,293 | -0,498 |
| 626+0.000 | | -6,860 | 246,353 | -0,81 | | -6,05 | 245,545 | -1,47 | 246,059 | 245,732 | 0,328 | 6,07 | 245,461 | -3,00 | | 7,14 | 246,534 | -1,073 |
| 627+0.000 | | -7,403 | 247,560 | -1,35 | | -6,05 | 246,210 | -1,49 | 246,725 | 246,676 | 0,049 | 6,07 | 246,127 | -3,00 | | 7,08 | 247,141 | -1,014 |
| 628+0.000 | | -7,582 | 248,391 | -1,53 | | -6,05 | 246,861 | -1,51 | 247,378 | 247,489 | -0,111 | 6,07 | 246,779 | -3,00 | | 7,33 | 248,040 | -1,261 |
| 629+0.000 | | -7,360 | 248,726 | -1,31 | | -6,05 | 247,419 | -1,53 | 247,937 | 248,038 | -0,100 | 6,07 | 247,339 | -3,00 | | 7,49 | 248,763 | -1,424 |
| 630+0.000 | | -7,772 | 249,590 | -1,72 | | -6,05 | 247,871 | -1,55 | 248,390 | 248,590 | -0,200 | 6,07 | 247,791 | -3,00 | | 7,35 | 249,077 | -1,286 |
| 631+0.000 | | -7,942 | 250,105 | -1,89 | | -6,05 | 248,216 | -1,57 | 248,736 | 249,008 | -0,271 | 6,07 | 248,137 | -3,00 | | 7,39 | 249,456 | -1,319 |
| 632+0.000 | | -7,096 | 249,497 | -1,04 | | -6,05 | 248,455 | -1,59 | 248,976 | 249,469 | -0,493 | 6,07 | 248,377 | -3,00 | | 7,49 | 249,795 | -1,418 |
| 633+0.000 | | -7,095 | 249,629 | -1,04 | | -6,05 | 248,587 | -1,61 | 249,109 | 249,430 | -0,321 | 6,07 | 248,510 | -3,00 | | 7,26 | 249,698 | -1,188 |
| 634+0.000 | | -7,285 | 249,844 | -1,23 | | -6,05 | 248,612 | -1,63 | 249,136 | 249,002 | 0,133 | 6,07 | 248,537 | -3,00 | | 6,93 | 249,401 | -0,864 |
| 635+0.000 | | -6,895 | 249,372 | -0,84 | | -6,05 | 248,531 | -1,65 | 249,056 | 248,550 | 0,506 | 6,07 | 248,457 | -3,00 | | 6,87 | 249,259 | -0,802 |
| 636+0.000 | | -6,219 | 248,508 | -0,17 | | -6,05 | 248,343 | -1,67 | 248,869 | 247,900 | 0,969 | 6,07 | 248,270 | -3,00 | | 6,77 | 248,975 | -0,705 |
| 637+0.000 | | -6,540 | 247,738 | 0,32 | | -6,05 | 248,062 | -1,69 | 248,590 | 247,301 | 1,289 | 6,07 | 247,990 | -3,00 | | 6,17 | 247,925 | 0,065 |
| 638+0.000 | | -7,093 | 247,076 | 0,69 | | -6,05 | 247,768 | -1,71 | 248,297 | 246,543 | 1,754 | 6,07 | 247,697 | -3,00 | | 6,39 | 247,482 | 0,215 |
| 639+0.000 | | -7,339 | 246,617 | 0,86 | | -6,05 | 247,474 | -1,73 | 248,004 | 245,913 | 2,091 | 6,07 | 247,404 | -3,00 | | 6,48 | 247,127 | 0,277 |
| 640+0.000 | | -7,740 | 246,056 | 1,12 | | -6,06 | 247,180 | -1,75 | 247,711 | 245,268 | 2,443 | 6,07 | 247,111 | -3,00 | | 7,94 | 245,862 | 1,249 |
| 641+0.000 | | -8,909 | 244,983 | 1,90 | | -6,06 | 246,885 | -1,77 | 247,417 | 244,705 | 2,712 | 6,07 | 246,818 | -3,00 | | 8,66 | 245,087 | 1,731 |
| 642+0.000 | | -9,765 | 244,118 | 2,47 | | -6,06 | 246,591 | -1,79 | 247,124 | 244,489 | 2,635 | 6,07 | 246,524 | -3,00 | | 10,33 | 243,683 | 2,841 |
| 643+0.000 | | -9,462 | 244,037 | 2,27 | | -6,06 | 246,308 | -1,81 | 246,842 | 244,200 | 2,642 | 6,07 | 246,242 | -3,00 | | 10,44 | 243,328 | 2,914 |
| 644+0.000 | | -8,586 | 244,411 | 1,69 | | -6,06 | 246,098 | -1,83 | 246,633 | 244,216 | 2,417 | 6,07 | 246,033 | -3,00 | | 9,13 | 243,990 | 2,043 |
| 645+0.000 | | -7,851 | 244,775 | 1,20 | | -6,06 | 245,972 | -1,85 | 246,509 | 244,237 | 2,272 | 6,07 | 245,908 | -3,00 | | 7,42 | 245,006 | 0,902 |
| 646+0.000 | | -6,923 | 245,353 | 0,58 | | -6,06 | 245,930 | -1,87 | 246,468 | 244,526 | 1,943 | 6,07 | 245,868 | -3,00 | | 6,86 | 245,341 | 0,527 |
| 647+0.000 | | -6,521 | 245,663 | 0,31 | | -6,06 | 245,973 | -1,89 | 246,512 | 245,014 | 1,498 | 6,07 | 245,912 | -3,00 | | 6,17 | 245,842 | 0,070 |
| 648+0.000 | | -6,872 | 245,557 | 0,54 | | -6,06 | 246,100 | -1,90 | 246,641 | 245,280 | 1,361 | 6,07 | 246,040 | -3,00 | | 6,21 | 245,945 | 0,095 |
| 649+0.000 | | -6,531 | 245,995 | 0,32 | | -6,06 | 246,311 | -1,92 | 246,853 | 245,431 | 1,422 | 6,07 | 246,252 | -3,00 | | 6,24 | 246,138 | 0,114 |
| 650+0.000 | | -6,572 | 246,253 | 0,34 | | -6,06 | 246,596 | -1,94 | 247,139 | 245,505 | 1,634 | 6,07 | 246,538 | -3,00 | | 6,27 | 246,404 | 0,134 |
| 651+0.000 | | -7,056 | 246,226 | 0,67 | | -6,06 | 246,892 | -1,96 | 247,436 | 245,771 | 1,665 | 6,07 | 246,835 | -3,00 | | 6,82 | 246,330 | 0,505 |
| 652+0.000 | | -7,347 | 246,328 | 0,86 | | -6,06 | 247,188 | -1,98 | 247,733 | 246,187 | 1,545 | 6,07 | 247,131 | -3,00 | | 7,52 | 246,161 | 0,970 |
| 653+0.000 | | -7,330 | 246,635 | 0,85 | | -6,06 | 247,483 | -2,00 | 248,029 | 246,324 | 1,705 | 6,07 | 247,428 | -3,00 | | 7,17 | 246,697 | 0,731 |
| 654+0.000 | | -7,284 | 246,961 | 0,82 | | -6,06 | 247,779 | -2,02 | 248,326 | 246,288 | 2,038 | 6,07 | 247,725 | -3,00 | | 7,17 | 246,991 | 0,734 |
| 655+0.000 | | -7,475 | 247,129 | 0,95 | | -6,06 | 248,074 | -2,04 | 248,623 | 246,537 | 2,086 | 6,07 | 248,021 | -3,00 | | 7,39 | 247,138 | 0,883 |
| 656+0.000 | | -7,570 | 247,362 | 1,01 | | -6,06 | 248,370 | -2,06 | 248,919 | 246,767 | 2,153 | 6,07 | 248,318 | -3,00 | | 7,16 | 247,587 | 0,731 |
| 657+0.000 | | -6,815 | 248,160 | 0,50 | | -6,06 | 248,665 | -2,08 | 249,216 | 247,091 | 2,125 | 6,07 | 248,614 | -3,00 | | 6,63 | 248,240 | 0,374 |
| 658+0.000 | | -6,694 | 248,537 | 0,42 | | -6,06 | 248,961 | -2,10 | 249,513 | 247,601 | 1,912 | 6,07 | 248,911 | -3,00 | | 7,15 | 248,187 | 0,724 |
| 659+0.000 | | -6,868 | 248,716 | 0,54 | | -6,06 | 249,256 | -2,12 | 249,810 | 248,265 | 1,545 | 6,07 | 249,208 | -3,00 | | 6,62 | 248,837 | 0,371 |
| 660+0.000 | | -6,246 | 249,427 | 0,13 | | -6,06 | 248,552 | -2,14 | 250,106 | 248,827 | 1,280 | 6,07 | 249,504 | -3,00 | | 6,08 | 249,517 | -0,013 |
| 661+0.000 | | -6,182 | 249,971 | -0,12 | | -6,06 | 249,847 | -2,16 | 250,403 | 249,250 | 1,153 | 6,07 | 249,801 | -3,00 | | 6,46 | 249,542 | 0,259 |
| 662+0.000 | | -6,089 | 250,123 | 0,02 | | -6,06 | 250,143 | -2,18 | 250,700 | 249,849 | 0,851 | 6,07 | 250,097 | -3,00 | | 6,09 | 250,083 | 0,014 |
| 663+0.000 | | -6,282 | 250,661 | -0,22 | | -6,06 | 250,438 | -2,20 | 250,996 | 250,363 | 0,634 | 6,07 | 250,394 | -3,00 | | 6,70 | 251,025 | -0,631 |
| 664+0.000 | | -6,892 | 251,516 | -0,83 | | -6,06 | 250,683 | -2,22 | 251,243 | 250,732 | 0,510 | 6,07 | 250,640 | -3,00 | | 6,75 | 251,324 | -0,684 |

NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | | Eixo | | | | | Lado Direito | | | | |
|-------------|-----------------------|---------------|--------|---------------|-------|---------|------|---------|---------|---------------|-------|--------------|--------|----------------------|--------|--------|
| | | OFFSET | | Bordo (Pt 03) | | | Cota | | | Bordo (Pt 04) | | | OFFSET | | | |
| | | Afast | Cota | Alt | Afast | Cota | % | Projeto | Terreno | Vermelha | Afast | Cota | % | Afast | Cota | Alt |
| ROTATÓRIA 1 | | | | | | | | | | | | | | | | |
| 0+0.000 | | -3,02 | 260,33 | 1,274 | -1,11 | 261,608 | 3,00 | 261,575 | 260,154 | 1,846 | 12,57 | 261,198 | -3,00 | CONCORDAR COM MT-206 | | |
| 0+10.000 | | -3,31 | 260,14 | 1,467 | -1,11 | 261,608 | 3,00 | 261,575 | 260,157 | 1,843 | 13,76 | 261,162 | -3,00 | 14,57 | 260,62 | 0,541 |
| 0+20.000 | | -2,90 | 260,42 | 1,193 | -1,11 | 261,608 | 3,00 | 261,575 | 260,452 | 1,548 | 14,95 | 261,126 | -3,00 | CONCORDAR COM MT-206 | | |
| 1+10.000 | | -2,04 | 260,99 | 0,619 | -1,11 | 261,608 | 3,00 | 261,575 | 260,972 | 1,028 | 14,58 | 261,138 | -3,00 | CONCORDAR COM MT-206 | | |
| 1+20.000 | | -1,48 | 261,98 | -0,367 | -1,11 | 261,608 | 3,00 | 261,575 | 262,173 | -0,173 | 12,57 | 261,198 | -3,00 | 13,35 | 261,98 | -0,780 |
| 2+10.000 | | -2,44 | 262,93 | -1,325 | -1,11 | 261,608 | 3,00 | 261,575 | 262,952 | -0,952 | 12,57 | 261,198 | -3,00 | 14,21 | 262,84 | -1,640 |
| 2+20.000 | | -2,70 | 263,20 | -1,590 | -1,11 | 261,608 | 3,00 | 261,575 | 263,245 | -1,245 | 12,57 | 261,198 | -3,00 | 14,89 | 263,52 | -2,317 |
| 3+1.141 | | -2,70 | 263,20 | -1,591 | -1,11 | 261,608 | 3,00 | 261,575 | 263,270 | -1,270 | 12,57 | 261,198 | -3,00 | 14,93 | 263,56 | -2,363 |
| 3+10.000 | | -2,04 | 262,54 | -0,933 | -1,11 | 261,608 | 3,00 | 261,575 | 262,891 | -0,891 | 12,57 | 261,198 | -3,00 | 15,15 | 263,78 | -2,584 |
| 3+20.000 | | -1,33 | 261,83 | -0,222 | -1,11 | 261,608 | 3,00 | 261,575 | 261,909 | 0,091 | 12,57 | 261,198 | -3,00 | CONCORDAR COM MT-206 | | |
| 4+10.000 | | -1,25 | 261,51 | 0,094 | -1,11 | 261,608 | 3,00 | 261,575 | 261,633 | 0,367 | 12,57 | 261,198 | -3,00 | 14,35 | 262,98 | -1,778 |
| 4+20.000 | | -1,27 | 261,50 | 0,105 | -1,11 | 261,608 | 3,00 | 261,575 | 261,739 | 0,261 | 12,57 | 261,198 | -3,00 | 13,49 | 262,12 | -0,920 |
| 5+10.000 | | -2,62 | 260,60 | 1,004 | -1,11 | 261,608 | 3,00 | 261,575 | 260,730 | 1,270 | 13,82 | 261,160 | -3,00 | 13,94 | 261,28 | -0,119 |
| 5+20.000 | | -2,91 | 260,41 | 1,198 | -1,11 | 261,608 | 3,00 | 261,575 | 260,263 | 1,737 | 12,57 | 261,198 | -3,00 | CONCORDAR COM MT-206 | | |
| 6+2.283 | | -3,01 | 260,34 | 1,266 | -1,11 | 261,608 | 3,00 | 261,575 | 260,169 | 1,831 | 12,57 | 261,198 | -3,00 | CONCORDAR COM MT-206 | | |
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NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | | Eixo | | | | | Lado Direito | | | | | |
|-------------|-----------------------|----------------------|--------|---------------|-------|---------|------|---------|---------|---------------|-------|----------------------|--------|----------------------|--------|--------|--|
| | | OFFSET | | Bordo (Pt 03) | | | Cota | | | Bordo (Pt 04) | | | OFFSET | | | | |
| | | Afast | Cota | Alt | Afast | Cota | % | Projeto | Terreno | Vermelha | Afast | Cota | % | Afast | Cota | Alt | |
| ROTATÓRIA 2 | | | | | | | | | | | | | | | | | |
| 0+0.000 | | CONCORDAR COM MT-206 | | | | | | | 251,575 | 250,511 | 1,489 | CONCORDAR COM MT-206 | | | | | |
| 0+10.000 | | -2,11 | 250,66 | 0,668 | -1,11 | 251,323 | 3,00 | 251,289 | 250,784 | 0,931 | 12,57 | 250,912 | -3,00 | 13,52 | 251,86 | -0,949 | |
| 1+0.000 | | -1,78 | 250,59 | 0,446 | -1,11 | 251,037 | 3,00 | 251,004 | 250,680 | 0,748 | 12,57 | 250,627 | -3,00 | 13,49 | 251,55 | -0,920 | |
| 1+10.000 | | -1,67 | 250,38 | 0,375 | -1,11 | 250,751 | 3,00 | 250,718 | 250,425 | 0,718 | 12,57 | 250,341 | -3,00 | CONCORDAR COM MT-206 | | | |
| 2+0.000 | | -1,73 | 250,05 | 0,414 | -1,11 | 250,465 | 3,00 | 250,432 | 250,071 | 0,786 | 12,57 | 250,055 | -3,00 | 12,64 | 250,13 | -0,076 | |
| 2+10.000 | | -1,74 | 249,76 | 0,418 | -1,11 | 250,180 | 3,00 | 250,146 | 249,804 | 0,767 | 12,57 | 249,769 | -3,00 | 12,63 | 249,83 | -0,061 | |
| 3+0.000 | | -1,69 | 249,59 | 0,389 | -1,11 | 249,978 | 3,00 | 249,945 | 249,607 | 0,763 | 12,57 | 249,568 | -3,00 | 12,74 | 249,74 | -0,168 | |
| 3+2.797 | | -1,72 | 249,54 | 0,409 | -1,11 | 249,952 | 3,00 | 249,918 | 249,555 | 0,788 | 12,57 | 249,541 | -3,00 | 12,77 | 249,74 | -0,198 | |
| 3+10.000 | | -2,07 | 249,30 | 0,641 | -1,11 | 249,945 | 3,00 | 249,911 | 249,303 | 1,033 | 12,57 | 249,534 | -3,00 | 12,72 | 249,44 | 0,099 | |
| 4+0.000 | | -3,02 | 248,81 | 1,273 | -1,11 | 250,079 | 3,00 | 250,046 | 248,566 | 1,904 | 12,57 | 249,669 | -3,00 | CONCORDAR COM MT-206 | | | |
| 4+10.000 | | -1,50 | 250,12 | 0,262 | -1,11 | 250,382 | 3,00 | 250,348 | 250,283 | 0,491 | 12,57 | 249,971 | -3,00 | CONCORDAR COM MT-206 | | | |
| 5+0.000 | | -1,11 | 250,77 | 0,002 | -1,11 | 250,768 | 3,00 | 250,735 | 250,783 | 0,377 | 12,57 | 250,358 | -3,00 | 13,20 | 250,99 | -0,635 | |
| 5+10.000 | | -1,36 | 250,99 | 0,167 | -1,11 | 251,155 | 3,00 | 251,122 | 251,038 | 0,509 | 12,57 | 250,745 | -3,00 | CONCORDAR COM MT-206 | | | |
| 6+0.000 | | -3,61 | 249,87 | 1,668 | -1,11 | 251,542 | 3,00 | 251,509 | 249,852 | 2,081 | 12,57 | 251,132 | -3,00 | CONCORDAR COM MT-206 | | | |
| 6+5.594 | | -3,13 | 250,42 | 1,343 | -1,11 | 251,758 | 3,00 | 251,725 | 250,508 | 1,642 | 12,57 | 251,348 | -3,00 | CONCORDAR COM MT-206 | | | |
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NOTA DE SERVIÇO DE TERRAPLENAGEM

| Estaca | Elementos Horizontais | Lado Esquerdo | | | | Eixo | | | | Lado Direito | | | | | | |
|-------------|-----------------------|----------------------|--------|---------------|-------|---------|------|----------|---------|---------------|----------------------|---------|--------|----------------------|--------|---------|
| | | OFFSET | | Bordo (Pt 03) | | Cota | | Vermelha | | Bordo (Pt 04) | | OFFSET | | | | |
| | | Afast | Cota | Alt | Afast | Cota | % | Projeto | Terreno | Afast | Cota | % | Afast | Cota | Alt | |
| ROTATÓRIA 3 | | | | | | | | | | | | | | | | |
| 0+0.000 | | CONCORDAR COM MT-206 | | | | | | 242,445 | 241,802 | 1,068 | CONCORDAR COM MT-206 | | | | | |
| 0+10.000 | | -1,59 | 242,46 | 100,000 | -1,11 | 241,980 | 3,00 | 241,946 | 242,524 | -0,153 | 12,57 | 241,57 | -3,000 | CONCORDAR COM MT-206 | | |
| 1+0.000 | | -1,50 | 241,87 | 100,000 | -1,11 | 241,481 | 3,00 | 241,448 | 241,823 | 0,049 | 12,57 | 241,071 | -3,00 | 12,99 | 241,49 | 100,000 |
| 1+10.000 | | -1,30 | 240,96 | -66,670 | -1,11 | 241,083 | 3,00 | 241,050 | 240,880 | 0,595 | 12,57 | 240,673 | -3,00 | CONCORDAR COM MT-206 | | |
| 2+0.000 | | -2,08 | 240,24 | -66,670 | -1,11 | 240,886 | 3,00 | 240,852 | 240,159 | 1,118 | 12,57 | 240,475 | -3,00 | CONCORDAR COM MT-206 | | |
| 2+10.000 | | -1,54 | 240,55 | -66,670 | -1,11 | 240,833 | 3,00 | 240,800 | 240,529 | 0,696 | 12,57 | 240,423 | -3,00 | 12,63 | 240,38 | -66,670 |
| 3+0.000 | | -1,34 | 241,10 | 100,000 | -1,11 | 240,870 | 3,00 | 240,837 | 241,083 | 0,179 | 12,57 | 240,460 | -3,00 | 12,72 | 240,61 | 100,000 |
| 3+10.000 | | -1,21 | 241,10 | 100,000 | -1,11 | 240,997 | 3,00 | 240,964 | 241,095 | 0,294 | 12,57 | 240,587 | -3,00 | 12,83 | 240,85 | 100,000 |
| 3+18.325 | | -1,30 | 241,01 | -66,670 | -1,11 | 241,139 | 3,00 | 241,106 | 241,030 | 0,501 | 12,57 | 240,729 | -3,00 | CONCORDAR COM MT-206 | | |
| 4+0.000 | | -1,55 | 240,87 | -66,670 | -1,11 | 241,168 | 3,00 | 241,135 | 240,878 | 0,682 | 12,57 | 240,757 | -3,00 | CONCORDAR COM MT-206 | | |
| 4+10.000 | | -1,51 | 241,07 | -66,670 | -1,11 | 241,339 | 3,00 | 241,305 | 241,117 | 0,614 | 12,57 | 240,928 | -3,00 | CONCORDAR COM MT-206 | | |
| 5+0.000 | | -1,61 | 242,01 | 100,000 | -1,11 | 241,510 | 3,00 | 241,476 | 241,990 | -0,088 | 12,57 | 241,099 | -3,00 | 13,22 | 241,75 | 100,000 |
| 5+10.000 | | -1,68 | 242,25 | 100,000 | -1,11 | 241,681 | 3,00 | 241,647 | 242,253 | -0,180 | 12,57 | 241,270 | -3,00 | 13,48 | 242,19 | 100,000 |
| 6+0.000 | | -1,78 | 242,52 | 100,000 | -1,11 | 241,852 | 3,00 | 241,818 | 242,570 | -0,326 | 12,57 | 241,441 | -3,00 | 13,92 | 242,79 | 100,000 |
| 6+10.000 | | -1,82 | 242,73 | 100,000 | -1,11 | 242,023 | 3,00 | 241,989 | 242,799 | -0,385 | 12,57 | 241,612 | -3,00 | 14,20 | 243,24 | 100,000 |
| 7+0.000 | | -1,97 | 243,05 | 100,00 | -1,11 | 242,194 | 3,00 | 242,160 | 243,144 | -0,559 | 12,57 | 241,783 | -3,00 | 14,38 | 243,59 | 100,000 |
| 7+10.000 | | -1,40 | 242,17 | -66,67 | -1,11 | 242,365 | 3,00 | 242,331 | 242,293 | 0,463 | 12,57 | 241,954 | -3,00 | CONCORDAR COM MT-206 | | |
| 7+16.649 | | -2,23 | 241,73 | -66,67 | -1,11 | 242,478 | 3,00 | 242,445 | 241,814 | 1,056 | 12,57 | 242,068 | -3,00 | CONCORDAR COM MT-206 | | |

7. CÁLCULO DE VOLUMES

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|-------|---------|--------|------------|-------|----------------|---------|---------|---------|---------|-----------|----------|---------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 0+0.000 | | | | | 6,43 | | | | | | | | | |
| 1+0.000 | 1,31 | 1,31 | | | 0,25 | 6,68 | 10,00 | 13,06 | | 66,87 | 66,87 | 13,06 | | 66,87 |
| 2+0.000 | 1,63 | 2,94 | | | | 0,25 | 10,00 | 29,40 | | 2,53 | 2,53 | 42,46 | | 69,40 |
| 3+0.000 | 6,08 | 7,71 | | | | | 10,00 | 77,09 | | | | 119,55 | | 69,40 |
| 4+0.000 | 4,10 | 10,18 | | | | | 10,00 | 101,73 | | | | 221,28 | | 69,40 |
| 5+0.000 | 5,87 | 9,97 | | | | | 10,00 | 99,69 | | | | 320,97 | | 69,40 |
| 6+0.000 | 4,86 | 10,73 | | | | | 10,00 | 107,29 | | | | 428,26 | | 69,40 |
| 7+0.000 | 5,20 | 10,06 | | | | | 10,00 | 100,53 | | | | 528,79 | | 69,40 |
| 8+0.000 | 5,18 | 10,38 | | | | | 10,00 | 103,74 | | | | 632,53 | | 69,40 |
| 9+0.000 | 1,95 | 7,13 | | | | | 10,00 | 71,28 | | | | 703,81 | | 69,40 |
| 10+0.000 | 4,42 | 6,37 | | | | | 10,00 | 63,65 | | | | 767,46 | | 69,40 |
| 11+0.000 | 5,38 | 9,80 | | | | | 10,00 | 97,98 | | | | 865,44 | | 69,40 |
| 12+0.000 | 4,82 | 10,20 | | | | | 10,00 | 102,04 | | | | 967,48 | | 69,40 |
| 13+0.000 | 6,40 | 11,22 | | | | | 10,00 | 112,25 | | | | 1079,73 | | 69,40 |
| 14+0.000 | 7,13 | 13,53 | | | | | 10,00 | 135,32 | | | | 1215,05 | | 69,40 |
| 15+0.000 | 5,37 | 12,50 | | | | | 10,00 | 125,00 | | | | 1340,05 | | 69,40 |
| 16+0.000 | 1,71 | 7,08 | | | 0,53 | 0,53 | 10,00 | 70,81 | | 5,32 | 5,32 | 1410,86 | | 74,72 |
| 17+0.000 | 2,13 | 3,84 | | | 0,39 | 0,92 | 10,00 | 38,40 | | 9,23 | 9,23 | 1449,26 | | 83,95 |
| 18+0.000 | 1,06 | 3,19 | 0,05 | 0,05 | 5,18 | 5,57 | 10,00 | 31,88 | 0,53 | 55,65 | 56,18 | 1481,14 | 0,53 | 139,60 |
| 19+0.000 | 0,02 | 1,08 | 5,90 | 5,95 | 7,10 | 12,28 | 10,00 | 10,76 | 59,49 | 122,74 | 182,23 | 1491,90 | 60,02 | 262,34 |
| 20+0.000 | | 0,02 | 14,54 | 20,44 | 7,51 | 14,61 | 10,00 | 0,16 | 204,32 | 146,18 | 350,50 | 1492,06 | 264,34 | 408,52 |
| 21+0.000 | | | 23,43 | 37,97 | 7,75 | 15,26 | 10,00 | | 379,69 | 152,61 | 532,30 | 1492,06 | 644,03 | 561,13 |
| 22+0.000 | | | 34,10 | 57,53 | 7,84 | 15,59 | 10,00 | | 575,31 | 155,90 | 731,21 | 1492,06 | 1219,34 | 717,03 |
| 23+0.000 | | | 49,52 | 83,62 | 7,84 | 15,68 | 10,00 | | 836,15 | 156,93 | 993,08 | 1492,06 | 2055,49 | 873,96 |
| 24+0.000 | | | 65,78 | 115,30 | 7,84 | 15,68 | 10,00 | | 1152,96 | 156,93 | 1309,89 | 1492,06 | 3208,45 | 1030,89 |
| 25+0.000 | 0,84 | 0,84 | 68,80 | 134,58 | 7,85 | 15,69 | 10,00 | 8,41 | 1345,78 | 156,93 | 1502,71 | 1500,47 | 4554,23 | 1187,82 |
| 26+0.000 | | 0,84 | 59,57 | 128,37 | 7,85 | 15,70 | 10,00 | 8,41 | 1283,70 | 156,93 | 1440,63 | 1508,88 | 5837,93 | 1344,75 |
| 27+0.000 | 1,60 | 1,60 | 36,02 | 95,59 | 7,84 | 15,69 | 10,00 | 16,03 | 955,87 | 156,93 | 1112,80 | 1524,91 | 6793,80 | 1501,68 |
| 28+0.000 | 1,50 | 3,10 | 14,24 | 50,26 | 7,72 | 15,56 | 10,00 | 30,98 | 502,54 | 155,70 | 658,24 | 1555,89 | 7296,34 | 1657,38 |
| 29+0.000 | 0,09 | 1,59 | 3,54 | 17,78 | 6,98 | 14,70 | 10,00 | 15,90 | 177,78 | 147,02 | 324,80 | 1571,79 | 7474,12 | 1804,40 |
| 30+0.000 | 4,49 | 4,58 | | 3,54 | 0,03 | 7,01 | 10,00 | 45,82 | 35,41 | 70,08 | 105,49 | 1617,61 | 7509,53 | 1874,48 |
| 31+0.000 | 4,50 | 8,99 | | | 0,09 | 0,12 | 10,00 | 89,88 | | 1,20 | 1,20 | 1707,49 | 7509,53 | 1875,68 |
| 32+0.000 | 3,26 | 7,76 | | | 0,17 | 0,26 | 10,00 | 77,63 | | 2,61 | 2,61 | 1785,12 | 7509,53 | 1878,29 |
| 33+0.000 | 1,95 | 5,21 | | | 0,52 | 0,69 | 10,00 | 52,16 | | 6,95 | 6,95 | 1837,28 | 7509,53 | 1885,24 |
| 34+0.000 | 0,96 | 2,91 | | | 1,09 | 1,61 | 10,00 | 29,16 | | 16,12 | 16,12 | 1866,44 | 7509,53 | 1901,36 |
| 35+0.000 | 0,90 | 1,86 | | | 1,02 | 2,11 | 10,00 | 18,59 | | 21,09 | 21,09 | 1885,03 | 7509,53 | 1922,45 |
| 36+0.000 | 0,42 | 1,32 | | | 2,58 | 3,60 | 10,00 | 13,15 | | 36,06 | 36,06 | 1898,18 | 7509,53 | 1958,51 |
| 37+0.000 | 0,11 | 0,53 | | | 4,57 | 7,15 | 10,00 | 5,28 | | 71,52 | 71,52 | 1903,46 | 7509,53 | 2030,03 |
| 38+0.000 | | 0,11 | 0,73 | 0,73 | 6,51 | 11,08 | 10,00 | 1,08 | 7,30 | 110,75 | 118,05 | 1904,54 | 7516,83 | 2140,78 |
| 39+0.000 | | | 2,79 | 3,52 | 7,62 | 14,13 | 10,00 | | 35,22 | 141,28 | 176,50 | 1904,54 | 7552,05 | 2282,06 |
| 40+0.000 | | | 4,14 | 6,93 | 7,71 | 15,33 | 10,00 | | 69,35 | 153,28 | 222,63 | 1904,54 | 7621,40 | 2435,34 |
| 41+0.000 | | | 4,68 | 8,82 | 7,82 | 15,53 | 10,00 | | 88,26 | 155,28 | 243,54 | 1904,54 | 7709,66 | 2590,62 |
| 42+0.000 | | | 2,02 | 6,70 | 7,06 | 14,88 | 10,00 | | 67,00 | 148,82 | 215,82 | 1904,54 | 7776,66 | 2739,44 |
| 43+0.000 | 0,23 | 0,23 | | 2,02 | 3,28 | 10,34 | 10,00 | 2,28 | 20,16 | 103,42 | 123,58 | 1906,82 | 7796,82 | 2842,86 |
| 44+0.000 | 2,59 | 2,82 | | | 0,06 | 3,34 | 10,00 | 28,14 | | 33,38 | 33,38 | 1934,96 | 7796,82 | 2876,24 |
| 45+0.000 | 10,09 | 12,68 | | | | 0,06 | 10,00 | 126,73 | | 0,59 | 0,59 | 2061,69 | 7796,82 | 2876,83 |
| 46+0.000 | 18,20 | 28,29 | | | | | 10,00 | 282,85 | | | | 2344,54 | 7796,82 | 2876,83 |
| 47+0.000 | 30,80 | 49,00 | | | | | 10,00 | 489,99 | | | | 2834,53 | 7796,82 | 2876,83 |
| 48+0.000 | 33,64 | 64,44 | | | | | 10,00 | 644,45 | | | | 3478,98 | 7796,82 | 2876,83 |
| 49+0.000 | 30,74 | 64,38 | | | | | 10,00 | 643,84 | | | | 4122,82 | 7796,82 | 2876,83 |
| 50+0.000 | 21,29 | 52,03 | | | | | 10,00 | 520,26 | | | | 4643,08 | 7796,82 | 2876,83 |
| 51+0.000 | 14,50 | 35,79 | | | | | 10,00 | 357,85 | | | | 5000,93 | 7796,82 | 2876,83 |
| 52+0.000 | 10,05 | 24,55 | | | | | 10,00 | 245,50 | | | | 5246,43 | 7796,82 | 2876,83 |
| 53+0.000 | 1,50 | 11,55 | | | 0,06 | 0,06 | 10,00 | 115,47 | | 0,64 | 0,64 | 5361,90 | 7796,82 | 2877,47 |
| 54+0.000 | | 1,50 | 0,07 | 0,07 | 6,41 | 6,47 | 10,00 | 14,96 | 0,69 | 64,73 | 65,42 | 5376,86 | 7797,51 | 2942,20 |
| 55+0.000 | | | 6,67 | 6,74 | 7,81 | 14,22 | 10,00 | | 67,39 | 142,20 | 209,59 | 5376,86 | 7864,90 | 3084,40 |
| 56+0.000 | 0,25 | 0,25 | 16,07 | 22,74 | 7,85 | 15,66 | 10,00 | 2,54 | 227,39 | 156,58 | 383,97 | 5379,40 | 8092,29 | 3240,98 |
| 57+0.000 | | 0,25 | 23,10 | 39,17 | 7,85 | 15,70 | 10,00 | 2,54 | 391,70 | 156,93 | 548,63 | 5381,94 | 8483,99 | 3397,91 |
| 58+0.000 | | | 28,01 | 51,11 | 7,84 | 15,69 | 10,00 | | 511,06 | 156,93 | 667,99 | 5381,94 | 8995,05 | 3554,84 |
| 59+0.000 | | | 29,98 | 57,99 | 7,85 | 15,69 | 10,00 | | 579,85 | 156,93 | 736,78 | 5381,94 | 9574,90 | 3711,77 |
| 60+0.000 | 1,42 | 1,42 | 20,02 | 50,00 | 7,84 | 15,69 | 10,00 | 14,23 | 499,94 | 156,93 | 656,87 | 5396,17 | 10074,84 | 3868,70 |
| 61+0.000 | | 1,42 | 14,78 | 34,80 | 7,84 | 15,68 | 10,00 | 14,23 | 347,92 | 156,93 | 504,85 | 5410,40 | 10422,76 | 4025,63 |
| 62+0.000 | | | 5,32 | 20,10 | 7,85 | 15,69 | 10,00 | | 201,01 | 156,93 | 357,94 | 5410,40 | 10623,77 | 4182,56 |
| 63+0.000 | | | | 5,32 | 4,77 | 12,62 | 10,00 | | 53,24 | 126,17 | 179,41 | 5410,40 | 10677,01 | 4308,73 |
| 64+0.000 | 12,36 | 12,36 | | | 0,70 | 5,47 | 10,00 | 123,59 | | 54,74 | 54,74 | 5533,99 | 10677,01 | 4363,47 |
| 65+0.000 | 14,16 | 26,52 | | | | 0,70 | 10,00 | 265,21 | | 7,03 | 7,03 | 5799,20 | 10677,01 | 4370,50 |
| 66+0.000 | 16,19 | 30,35 | | | | | 10,00 | 303,53 | | | | 6102,73 | 10677,01 | 4370,50 |
| 67+0.000 | 17,61 | 33,80 | | | | | 10,00 | 338,05 | | | | 6440,78 | 10677,01 | 4370,50 |
| 68+0.000 | 21,58 | 39,19 | | | | | 10,00 | 391,92 | | | | 6832,70 | 10677,01 | 4370,50 |

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|-------|---------|--------|------------|-------|----------------|---------|---------|---------|---------|-----------|----------|---------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 69+0.000 | 25,97 | 47,55 | | | | | 10,00 | 475,49 | | | | 7308,19 | 10677,01 | 4370,50 |
| 70+0.000 | 25,77 | 51,74 | | | | | 10,00 | 517,45 | | | | 7825,64 | 10677,01 | 4370,50 |
| 71+0.000 | 26,45 | 52,22 | | | | | 10,00 | 522,21 | | | | 8347,85 | 10677,01 | 4370,50 |
| 72+0.000 | 27,98 | 54,43 | | | | | 10,00 | 544,26 | | | | 8892,11 | 10677,01 | 4370,50 |
| 73+0.000 | 29,25 | 57,23 | | | | | 10,00 | 572,33 | | | | 9464,44 | 10677,01 | 4370,50 |
| 74+0.000 | 34,26 | 63,51 | | | | | 10,00 | 635,12 | | | | 10099,56 | 10677,01 | 4370,50 |
| 75+0.000 | 37,78 | 72,04 | | | | | 10,00 | 720,36 | | | | 10819,92 | 10677,01 | 4370,50 |
| 76+0.000 | 40,00 | 77,78 | | | | | 10,00 | 777,77 | | | | 11597,69 | 10677,01 | 4370,50 |
| 77+0.000 | 37,19 | 77,19 | | | | | 10,00 | 771,84 | | | | 12369,53 | 10677,01 | 4370,50 |
| 78+0.000 | 39,71 | 76,90 | | | | | 10,00 | 768,98 | | | | 13138,51 | 10677,01 | 4370,50 |
| 79+0.000 | 39,37 | 79,08 | | | | | 10,00 | 790,81 | | | | 13929,32 | 10677,01 | 4370,50 |
| 80+0.000 | 38,49 | 77,86 | | | | | 10,00 | 778,64 | | | | 14707,96 | 10677,01 | 4370,50 |
| 81+0.000 | 37,91 | 76,40 | | | | | 10,00 | 764,02 | | | | 15471,98 | 10677,01 | 4370,50 |
| 82+0.000 | 36,09 | 74,00 | | | | | 10,00 | 739,96 | | | | 16211,94 | 10677,01 | 4370,50 |
| 83+0.000 | 33,64 | 69,73 | | | | | 10,00 | 697,26 | | | | 16909,20 | 10677,01 | 4370,50 |
| 84+0.000 | 31,02 | 64,66 | | | | | 10,00 | 646,61 | | | | 17555,81 | 10677,01 | 4370,50 |
| 85+0.000 | 29,73 | 60,75 | | | | | 10,00 | 607,51 | | | | 18163,32 | 10677,01 | 4370,50 |
| 86+0.000 | 34,61 | 64,34 | | | | | 10,00 | 643,37 | | | | 18806,69 | 10677,01 | 4370,50 |
| 87+0.000 | 27,63 | 62,24 | | | | | 10,00 | 622,42 | | | | 19429,11 | 10677,01 | 4370,50 |
| 88+0.000 | 31,13 | 58,76 | | | | | 10,00 | 587,65 | | | | 20016,76 | 10677,01 | 4370,50 |
| 89+0.000 | 33,04 | 64,17 | | | | | 10,00 | 641,71 | | | | 20658,47 | 10677,01 | 4370,50 |
| 90+0.000 | 36,55 | 69,59 | | | | | 10,00 | 695,94 | | | | 21354,41 | 10677,01 | 4370,50 |
| 91+0.000 | 31,73 | 68,28 | | | | | 10,00 | 682,88 | | | | 22037,29 | 10677,01 | 4370,50 |
| 92+0.000 | 32,08 | 63,81 | | | | | 10,00 | 638,13 | | | | 22675,42 | 10677,01 | 4370,50 |
| 93+0.000 | 31,30 | 63,38 | | | | | 10,00 | 633,78 | | | | 23309,20 | 10677,01 | 4370,50 |
| 94+0.000 | 32,84 | 64,14 | | | | | 10,00 | 641,43 | | | | 23950,63 | 10677,01 | 4370,50 |
| 95+0.000 | 32,44 | 65,28 | | | | | 10,00 | 652,89 | | | | 24603,52 | 10677,01 | 4370,50 |
| 96+0.000 | 32,32 | 64,76 | | | | | 10,00 | 647,61 | | | | 25251,13 | 10677,01 | 4370,50 |
| 97+0.000 | 33,99 | 66,31 | | | | | 10,00 | 663,10 | | | | 25914,23 | 10677,01 | 4370,50 |
| 98+0.000 | 35,92 | 69,91 | | | | | 10,00 | 699,10 | | | | 26613,33 | 10677,01 | 4370,50 |
| 99+0.000 | 39,62 | 75,54 | | | | | 10,00 | 755,33 | | | | 27368,66 | 10677,01 | 4370,50 |
| 100+0.000 | 40,21 | 79,83 | | | | | 10,00 | 798,22 | | | | 28166,88 | 10677,01 | 4370,50 |
| 101+0.000 | 42,87 | 83,08 | | | | | 10,00 | 830,76 | | | | 28997,64 | 10677,01 | 4370,50 |
| 102+0.000 | 44,16 | 87,03 | | | | | 10,00 | 870,34 | | | | 29867,98 | 10677,01 | 4370,50 |
| 103+0.000 | 47,73 | 91,89 | | | | | 10,00 | 918,94 | | | | 30786,92 | 10677,01 | 4370,50 |
| 104+0.000 | 45,99 | 93,72 | | | | | 10,00 | 937,16 | | | | 31724,08 | 10677,01 | 4370,50 |
| 105+0.000 | 41,01 | 87,00 | | | | | 10,00 | 869,97 | | | | 32594,05 | 10677,01 | 4370,50 |
| 106+0.000 | 33,40 | 74,41 | | | | | 10,00 | 744,12 | | | | 33338,17 | 10677,01 | 4370,50 |
| 107+0.000 | 20,45 | 53,85 | | | | | 10,00 | 538,47 | | | | 33876,64 | 10677,01 | 4370,50 |
| 108+0.000 | | 20,45 | | | 4,49 | 4,49 | 10,00 | 204,47 | | 44,86 | 44,86 | 34081,11 | 10677,01 | 4415,36 |
| 109+0.000 | | | 12,18 | 12,18 | 7,85 | 12,34 | 10,00 | | 121,79 | 123,32 | 245,11 | 34081,11 | 10798,80 | 4538,68 |
| 110+0.000 | | | 32,67 | 44,85 | 7,85 | 15,70 | 10,00 | | 448,52 | 156,93 | 605,45 | 34081,11 | 11247,32 | 4695,61 |
| 111+0.000 | | | 52,11 | 84,78 | 7,85 | 15,70 | 10,00 | | 847,87 | 156,93 | 1004,80 | 34081,11 | 12095,19 | 4852,54 |
| 112+0.000 | | | 70,59 | 122,70 | 7,85 | 15,70 | 10,00 | | 1227,09 | 156,93 | 1384,02 | 34081,11 | 13322,28 | 5009,47 |
| 113+0.000 | | | 66,80 | 137,39 | 7,85 | 15,70 | 10,00 | | 1373,98 | 156,93 | 1530,91 | 34081,11 | 14696,26 | 5166,40 |
| 114+0.000 | 0,24 | 0,24 | 46,57 | 113,37 | 7,85 | 15,70 | 10,00 | 2,43 | 1133,74 | 156,93 | 1290,67 | 34083,54 | 15830,00 | 5323,33 |
| 115+0.000 | | 0,24 | 29,58 | 76,15 | 7,85 | 15,70 | 10,00 | 2,43 | 761,53 | 156,93 | 918,46 | 34085,97 | 16591,53 | 5480,26 |
| 116+0.000 | | | 16,49 | 46,07 | 7,84 | 15,69 | 10,00 | | 460,70 | 156,93 | 617,63 | 34085,97 | 17052,23 | 5637,19 |
| 117+0.000 | | | 5,94 | 22,43 | 7,84 | 15,68 | 10,00 | | 224,26 | 156,91 | 381,17 | 34085,97 | 17276,49 | 5794,10 |
| 118+0.000 | | | | 5,94 | 3,89 | 11,73 | 10,00 | 0,08 | 59,38 | 117,30 | 176,68 | 34086,05 | 17335,87 | 5911,40 |
| 119+0.000 | 20,70 | 20,70 | | | 0,22 | 4,11 | 10,00 | 207,12 | | 41,01 | 41,01 | 34293,17 | 17335,87 | 5952,41 |
| 120+0.000 | 27,00 | 47,70 | | | 0,22 | | 10,00 | 477,05 | | 2,16 | 2,16 | 34770,22 | 17335,87 | 5954,57 |
| 121+0.000 | 32,72 | 59,72 | | | | | 10,00 | 597,22 | | | | 35367,44 | 17335,87 | 5954,57 |
| 122+0.000 | 30,34 | 63,06 | | | | | 10,00 | 630,62 | | | | 35998,06 | 17335,87 | 5954,57 |
| 123+0.000 | 32,41 | 62,75 | | | | | 10,00 | 627,50 | | | | 36625,56 | 17335,87 | 5954,57 |
| 124+0.000 | 30,03 | 62,44 | | | | | 10,00 | 624,36 | | | | 37249,92 | 17335,87 | 5954,57 |
| 125+0.000 | 28,12 | 58,15 | | | 0,03 | 0,03 | 10,00 | 581,52 | | 0,28 | 0,28 | 37831,44 | 17335,87 | 5954,85 |
| 126+0.000 | 27,69 | 55,81 | | | | 0,03 | 10,00 | 558,12 | | 0,28 | 0,28 | 38389,56 | 17335,87 | 5955,13 |
| 126+15.821 | 25,19 | 52,88 | | | 0,16 | 0,16 | 7,91 | 418,33 | 0,03 | 1,25 | 1,28 | 38807,89 | 17335,90 | 5956,38 |
| 127+0.000 | 25,01 | 50,20 | | | 0,18 | 0,34 | 2,09 | 104,89 | 0,01 | 0,71 | 0,72 | 38912,78 | 17335,91 | 5957,09 |
| 128+0.000 | 24,18 | 49,19 | | | 0,08 | 0,26 | 10,00 | 491,92 | 0,07 | 2,60 | 2,67 | 39404,70 | 17335,98 | 5959,69 |
| 129+0.000 | 20,76 | 44,94 | | | 0,06 | 0,14 | 10,00 | 449,75 | 0,03 | 1,38 | 1,41 | 39854,45 | 17336,01 | 5961,07 |
| 129+5.821 | 19,32 | 40,08 | | | 0,11 | 0,17 | 2,91 | 116,66 | | 0,50 | 0,50 | 39971,11 | 17336,01 | 5961,57 |
| 130+0.000 | 16,62 | 35,94 | | | 0,05 | 0,16 | 7,09 | 254,04 | | 1,13 | 1,13 | 40225,15 | 17336,01 | 5962,70 |
| 130+19.635 | 15,23 | 31,85 | | | 0,85 | 0,90 | 9,82 | 310,29 | | 8,94 | 8,94 | 40535,44 | 17336,01 | 5971,64 |
| 131+0.000 | 15,21 | 30,44 | | | 0,90 | 1,75 | 0,18 | 5,56 | | 0,32 | 0,32 | 40541,00 | 17336,01 | 5971,96 |
| 132+0.000 | 13,86 | 29,07 | | | 2,85 | 3,75 | 10,00 | 286,84 | | 37,80 | 37,80 | 40827,84 | 17336,01 | 6009,76 |
| 132+13.449 | 14,95 | 28,81 | 0,03 | 0,03 | 3,29 | 6,14 | 6,72 | 190,40 | 0,21 | 41,67 | 41,88 | 41018,24 | 17336,22 | 6051,43 |
| 133+0.000 | 15,30 | 30,25 | 0,03 | 0,06 | 2,87 | 6,16 | 3,28 | 99,07 | 0,18 | 20,17 | 20,35 | 41117,31 | 17336,40 | 6071,60 |

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|-------|---------|-------|------------|-------|----------------|---------|--------|---------|--------|-----------|----------|---------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 134+0.000 | 16,92 | 32,22 | | 0,03 | 0,93 | 3,80 | 10,00 | 319,23 | 0,26 | 38,29 | 38,55 | 41436,54 | 17336,66 | 6109,89 |
| 135+0.000 | 21,81 | 38,73 | 0,05 | 0,05 | 0,02 | 0,95 | 10,00 | 387,31 | 0,50 | 9,46 | 9,96 | 41823,85 | 17337,16 | 6119,35 |
| 135+3.449 | 22,83 | 44,64 | 0,05 | 0,10 | | 0,02 | 1,72 | 76,96 | 0,18 | 0,02 | 0,20 | 41900,81 | 17337,34 | 6119,37 |
| 136+0.000 | 24,17 | 47,00 | | 0,05 | | | 8,28 | 388,92 | 0,44 | | 0,44 | 42289,73 | 17337,78 | 6119,37 |
| 137+0.000 | 24,18 | 48,35 | | | | | 10,00 | 483,45 | | | | 42773,18 | 17337,78 | 6119,37 |
| 137+9.079 | 25,25 | 49,43 | | | | | 4,54 | 224,39 | | | | 42997,57 | 17337,78 | 6119,37 |
| 138+0.000 | 26,78 | 52,03 | | | | | 5,46 | 284,11 | 0,01 | 0,01 | 0,02 | 43281,68 | 17337,79 | 6119,38 |
| 139+0.000 | 30,25 | 57,03 | | | | | 10,00 | 570,23 | 0,02 | 0,01 | 0,03 | 43851,91 | 17337,81 | 6119,39 |
| 140+0.000 | 30,06 | 60,31 | | | | | 10,00 | 602,86 | | | | 44454,77 | 17337,81 | 6119,39 |
| 140+9.079 | 28,64 | 58,70 | | | | | 4,54 | 266,50 | | 0,01 | 0,01 | 44721,27 | 17337,81 | 6119,40 |
| 141+0.000 | 26,31 | 54,95 | | | | | 5,46 | 299,77 | | 0,01 | 0,01 | 45021,04 | 17337,81 | 6119,41 |
| 142+0.000 | 18,99 | 45,30 | | | | | 10,00 | 452,74 | | | | 45473,78 | 17337,81 | 6119,41 |
| 142+0.784 | 10,14 | 29,13 | | | | | 0,39 | 11,41 | | | | 45485,19 | 17337,81 | 6119,41 |
| 143+0.000 | 1,44 | 11,58 | 0,81 | 0,81 | 1,92 | 1,92 | 9,61 | 111,31 | 7,69 | 18,21 | 25,90 | 45596,50 | 17345,50 | 6137,62 |
| 143+12.488 | | 1,44 | 3,99 | 4,80 | 5,65 | 7,57 | 6,24 | 9,04 | 29,67 | 46,94 | 76,61 | 45605,54 | 17375,17 | 6184,56 |
| 144+0.000 | | | 4,91 | 8,90 | 6,54 | 12,19 | 3,76 | | 33,44 | 45,77 | 79,21 | 45605,54 | 17408,61 | 6230,33 |
| 145+0.000 | | | 10,18 | 15,09 | 8,15 | 14,69 | 10,00 | | 150,15 | 146,65 | 296,80 | 45605,54 | 17558,76 | 6376,98 |
| 146+0.000 | | | 20,77 | 30,95 | 7,94 | 16,09 | 10,00 | | 309,54 | 160,79 | 470,33 | 45605,54 | 17868,30 | 6537,77 |
| 146+12.488 | | | 33,62 | 54,39 | 7,78 | 15,72 | 6,24 | 0,02 | 339,59 | 98,16 | 437,75 | 45605,56 | 18207,89 | 6635,93 |
| 147+0.000 | | | 41,05 | 74,67 | 7,79 | 15,57 | 3,76 | | 280,47 | 58,48 | 338,95 | 45605,56 | 18488,36 | 6694,41 |
| 147+18.822 | | | 42,57 | 83,62 | 7,79 | 15,58 | 9,41 | | 786,98 | 146,54 | 933,52 | 45605,56 | 19275,34 | 6840,95 |
| 148+0.000 | | | 41,39 | 83,96 | 7,80 | 15,59 | 0,59 | | 49,45 | 9,18 | 58,63 | 45605,56 | 19324,79 | 6850,13 |
| 149+0.000 | | | 18,56 | 59,95 | 8,01 | 15,81 | 10,00 | 0,03 | 599,51 | 158,18 | 757,69 | 45605,59 | 19924,30 | 7008,31 |
| 150+0.000 | 0,27 | 0,27 | 4,55 | 23,11 | 5,34 | 13,35 | 10,00 | 2,71 | 233,80 | 133,76 | 367,56 | 45608,30 | 20158,10 | 7142,07 |
| 150+18.822 | 4,27 | 4,54 | 0,36 | 4,91 | 2,24 | 7,58 | 9,41 | 42,01 | 47,26 | 72,05 | 119,31 | 45650,31 | 20205,36 | 7214,12 |
| 151+0.000 | 4,40 | 8,67 | 0,24 | 0,60 | 2,10 | 4,34 | 0,59 | 5,10 | 0,35 | 2,56 | 2,91 | 45655,41 | 20205,71 | 7216,68 |
| 152+0.000 | 8,24 | 12,64 | | 0,24 | 0,36 | 2,46 | 10,00 | 124,36 | 2,43 | 25,19 | 27,62 | 45779,77 | 20208,14 | 7241,87 |
| 152+15.058 | 8,10 | 16,34 | 0,87 | 0,87 | 2,31 | 2,67 | 7,53 | 121,09 | 6,74 | 20,56 | 27,30 | 45900,86 | 20214,88 | 7262,43 |
| 153+0.000 | 7,95 | 16,05 | 1,11 | 1,98 | 2,25 | 4,56 | 2,47 | 38,97 | 5,03 | 11,51 | 16,54 | 45939,83 | 20219,91 | 7273,94 |
| 154+0.000 | 4,68 | 12,63 | 0,14 | 1,25 | 4,24 | 6,49 | 10,00 | 123,69 | 12,86 | 65,91 | 78,77 | 46063,52 | 20232,77 | 7339,85 |
| 154+11.294 | 5,58 | 10,26 | 0,01 | 0,15 | 3,64 | 7,88 | 5,65 | 56,47 | 0,87 | 45,07 | 45,94 | 46119,99 | 20233,64 | 7384,92 |
| 155+0.000 | 2,28 | 7,86 | | 0,01 | 1,89 | 5,53 | 4,35 | 33,47 | 0,07 | 24,25 | 24,32 | 46153,46 | 20233,71 | 7409,17 |
| 156+0.000 | 2,96 | 5,24 | | | 1,34 | 3,23 | 10,00 | 51,98 | 0,05 | 32,30 | 32,35 | 46205,44 | 20233,76 | 7441,47 |
| 157+0.000 | 5,27 | 8,23 | | | | 1,34 | 10,00 | 82,03 | | 13,44 | 13,44 | 46287,47 | 20233,76 | 7454,91 |
| 157+11.294 | 10,01 | 15,28 | | | | | 5,65 | 86,27 | | | | 46373,74 | 20233,76 | 7454,91 |
| 158+0.000 | 5,47 | 15,48 | | | | | 4,35 | 67,39 | | | | 46441,13 | 20233,76 | 7454,91 |
| 159+0.000 | 2,00 | 7,47 | 0,10 | 0,10 | 1,71 | 1,71 | 10,00 | 74,70 | 0,95 | 17,20 | 18,15 | 46515,83 | 20234,71 | 7472,11 |
| 160+0.000 | 0,55 | 2,55 | 0,11 | 0,21 | 0,57 | 2,28 | 10,00 | 25,48 | 2,03 | 22,95 | 24,98 | 46541,31 | 20236,74 | 7495,06 |
| 161+0.000 | 0,80 | 1,35 | | 0,11 | 3,04 | 3,61 | 10,00 | 13,53 | 1,08 | 36,11 | 37,19 | 46554,84 | 20237,82 | 7531,17 |
| 162+0.000 | 0,64 | 1,44 | 0,76 | 0,76 | 4,66 | 7,70 | 10,00 | 14,43 | 7,63 | 76,96 | 84,59 | 46569,27 | 20245,45 | 7608,13 |
| 163+0.000 | 0,11 | 0,75 | 0,71 | 1,47 | 5,03 | 9,69 | 10,00 | 7,49 | 14,68 | 96,92 | 111,60 | 46576,76 | 20260,13 | 7705,05 |
| 164+0.000 | 0,07 | 0,18 | 1,40 | 2,11 | 5,34 | 10,37 | 10,00 | 1,80 | 21,02 | 103,78 | 124,80 | 46578,56 | 20281,15 | 7808,83 |
| 165+0.000 | 0,11 | 0,18 | 4,01 | 5,41 | 5,99 | 11,33 | 10,00 | 1,80 | 54,12 | 113,33 | 167,45 | 46580,36 | 20335,27 | 7922,16 |
| 166+0.000 | | 0,11 | 7,08 | 11,09 | 8,00 | 13,99 | 10,00 | 1,07 | 110,97 | 139,79 | 250,76 | 46581,43 | 20446,24 | 8061,95 |
| 167+0.000 | | | 13,10 | 20,18 | 7,85 | 15,85 | 10,00 | | 201,85 | 158,40 | 360,25 | 46581,43 | 20648,09 | 8220,35 |
| 168+0.000 | | | 18,97 | 32,07 | 7,85 | 15,70 | 10,00 | | 320,77 | 156,93 | 477,70 | 46581,43 | 20968,86 | 8377,28 |
| 169+0.000 | 0,07 | 0,07 | 13,01 | 31,98 | 7,84 | 15,69 | 10,00 | 0,69 | 319,81 | 156,93 | 476,74 | 46582,12 | 21288,67 | 8534,21 |
| 170+0.000 | | 0,07 | 25,17 | 38,18 | 7,84 | 15,68 | 10,00 | 0,69 | 381,75 | 156,93 | 538,68 | 46582,81 | 21670,42 | 8691,14 |
| 171+0.000 | | | 18,55 | 43,72 | 7,84 | 15,68 | 10,00 | | 437,13 | 156,93 | 594,06 | 46582,81 | 22107,55 | 8848,07 |
| 172+0.000 | | | 15,53 | 34,08 | 7,85 | 15,69 | 10,00 | | 340,77 | 156,93 | 497,70 | 46582,81 | 22448,32 | 9005,00 |
| 173+0.000 | | | 5,58 | 21,11 | 7,21 | 15,06 | 10,00 | | 211,14 | 150,56 | 361,70 | 46582,81 | 22659,46 | 9155,56 |
| 174+0.000 | 0,11 | 0,11 | 1,46 | 7,04 | 5,27 | 12,48 | 10,00 | 1,15 | 70,41 | 124,81 | 195,22 | 46583,96 | 22729,87 | 9280,37 |
| 175+0.000 | 15,62 | 15,73 | | 1,46 | 3,57 | 8,84 | 10,00 | 157,34 | 14,58 | 88,46 | 103,04 | 46741,30 | 22744,45 | 9368,83 |
| 176+0.000 | 15,97 | 31,59 | | | 0,91 | 4,48 | 10,00 | 315,87 | | 44,84 | 44,84 | 47057,17 | 22744,45 | 9413,67 |
| 177+0.000 | 24,37 | 40,34 | | | | 0,91 | 10,00 | 403,41 | | 9,09 | 9,09 | 47460,58 | 22744,45 | 9422,76 |
| 178+0.000 | 28,20 | 52,57 | | | | | 10,00 | 525,72 | | | | 47986,30 | 22744,45 | 9422,76 |
| 179+0.000 | 24,94 | 53,14 | | | | | 10,00 | 531,43 | | | | 48517,73 | 22744,45 | 9422,76 |
| 180+0.000 | 21,16 | 46,10 | | | 0,04 | 0,04 | 10,00 | 461,06 | | 0,42 | 0,42 | 48978,79 | 22744,45 | 9423,18 |
| 181+0.000 | 24,53 | 45,69 | | | | 0,04 | 10,00 | 456,87 | | 0,42 | 0,42 | 49435,66 | 22744,45 | 9423,60 |
| 182+0.000 | 26,55 | 51,08 | | | | | 10,00 | 510,75 | | | | 49946,41 | 22744,45 | 9423,60 |
| 183+0.000 | 31,50 | 58,05 | | | | | 10,00 | 580,47 | | | | 50526,88 | 22744,45 | 9423,60 |
| 184+0.000 | 20,73 | 52,23 | | | | | 10,00 | 522,24 | | | | 51049,12 | 22744,45 | 9423,60 |
| 185+0.000 | 17,35 | 38,08 | 0,01 | 0,01 | | | 10,00 | 380,74 | 0,13 | | 0,13 | 51429,86 | 22744,58 | 9423,60 |
| 186+0.000 | 15,80 | 33,15 | | 0,01 | | | 10,00 | 331,50 | 0,13 | | 0,13 | 51761,36 | 22744,71 | 9423,60 |
| 187+0.000 | 18,65 | 34,45 | | | | | 10,00 | 344,49 | | | | 52105,85 | 22744,71 | 9423,60 |
| 188+0.000 | 19,56 | 38,21 | | | | | 10,00 | 382,10 | | | | 52487,95 | 22744,71 | 9423,60 |
| 189+0.000 | 18,69 | 38,25 | | | | | 10,00 | 382,53 | 0,02 | 0,03 | 0,05 | 52870,48 | 22744,73 | 9423,63 |
| 190+0.000 | 18,32 | 37,01 | | | | | 10,00 | 370,03 | 0,02 | 0,03 | 0,05 | 53240,51 | 22744,75 | 9423,66 |
| 191+0.000 | 18,59 | 36,91 | | | | | 10,00 | 369,09 | | | | 53609,60 | 22744,75 | 9423,66 |

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|-------|---------|-------|------------|-------|----------------|---------|--------|---------|--------|-----------|----------|----------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 192+0.000 | 20,07 | 38,66 | | | | | 10,00 | 386,66 | | | | 53996,26 | 22744,75 | 9423,66 |
| 193+0.000 | 16,42 | 36,49 | 0,03 | 0,03 | 0,02 | 0,02 | 10,00 | 364,88 | 0,30 | 0,17 | 0,47 | 54361,14 | 22745,05 | 9423,83 |
| 194+0.000 | 23,99 | 40,41 | | 0,03 | | 0,02 | 10,00 | 404,02 | 0,30 | 0,17 | 0,47 | 54765,16 | 22745,35 | 9424,00 |
| 195+0.000 | 21,17 | 45,16 | | | | | 10,00 | 451,59 | | | | 55216,75 | 22745,35 | 9424,00 |
| 196+0.000 | 20,74 | 41,91 | | | | | 10,00 | 419,16 | | | | 55635,91 | 22745,35 | 9424,00 |
| 197+0.000 | 19,34 | 40,08 | | | 0,13 | 0,13 | 10,00 | 400,85 | | 1,31 | 1,31 | 56036,76 | 22745,35 | 9425,31 |
| 198+0.000 | 15,28 | 34,62 | | | 0,99 | 1,12 | 10,00 | 346,23 | | 11,16 | 11,16 | 56382,99 | 22745,35 | 9436,47 |
| 199+0.000 | 12,33 | 27,61 | | | 2,80 | 3,79 | 10,00 | 276,09 | | 37,89 | 37,89 | 56659,08 | 22745,35 | 9474,36 |
| 200+0.000 | | 12,33 | 1,98 | 1,98 | 6,98 | 9,78 | 10,00 | 123,28 | 19,77 | 97,87 | 117,64 | 56782,36 | 22765,12 | 9572,23 |
| 201+0.000 | | | 20,08 | 22,06 | 7,84 | 14,82 | 10,00 | | 220,54 | 148,31 | 368,85 | 56782,36 | 22985,66 | 9720,54 |
| 202+0.000 | | | 38,98 | 59,06 | 7,84 | 15,68 | 10,00 | | 590,54 | 156,93 | 747,47 | 56782,36 | 23576,20 | 9877,47 |
| 203+0.000 | | | 43,48 | 82,46 | 7,84 | 15,68 | 10,00 | | 824,55 | 156,93 | 981,48 | 56782,36 | 24400,75 | 10034,40 |
| 204+0.000 | | | 39,49 | 82,97 | 7,85 | 15,69 | 10,00 | | 829,72 | 156,93 | 986,65 | 56782,36 | 25230,47 | 10191,33 |
| 205+0.000 | | | 34,25 | 73,74 | 7,85 | 15,70 | 10,00 | | 737,46 | 156,93 | 894,39 | 56782,36 | 25967,93 | 10348,26 |
| 206+0.000 | 0,07 | 0,07 | 22,29 | 56,54 | 7,85 | 15,70 | 10,00 | 0,70 | 565,40 | 156,93 | 722,33 | 56783,06 | 26533,33 | 10505,19 |
| 207+0.000 | | 0,07 | 13,82 | 36,11 | 7,45 | 15,30 | 10,00 | 0,70 | 361,06 | 153,02 | 514,08 | 56783,76 | 26894,39 | 10658,21 |
| 208+0.000 | 0,16 | 0,16 | 7,77 | 21,59 | 7,35 | 14,80 | 10,00 | 1,65 | 215,89 | 148,00 | 363,89 | 56785,41 | 27110,28 | 10806,21 |
| 209+0.000 | 0,72 | 0,88 | 1,07 | 8,84 | 5,55 | 12,90 | 10,00 | 8,83 | 88,44 | 128,93 | 217,37 | 56794,24 | 27198,72 | 10935,14 |
| 210+0.000 | 0,47 | 1,19 | 0,12 | 1,19 | 1,89 | 7,44 | 10,00 | 11,86 | 11,90 | 74,39 | 86,29 | 56806,10 | 27210,62 | 11009,53 |
| 211+0.000 | 6,13 | 6,60 | 0,04 | 0,16 | 0,17 | 2,06 | 10,00 | 65,96 | 1,64 | 20,58 | 22,22 | 56872,06 | 27212,26 | 11030,11 |
| 212+0.000 | 8,25 | 14,38 | | 0,04 | | 0,17 | 10,00 | 143,81 | 0,45 | 1,68 | 2,13 | 57015,87 | 27212,71 | 11031,79 |
| 213+0.000 | 10,81 | 19,06 | | | | | 10,00 | 190,63 | | | | 57206,50 | 27212,71 | 11031,79 |
| 214+0.000 | 14,99 | 25,80 | | | | | 10,00 | 258,03 | | | | 57464,53 | 27212,71 | 11031,79 |
| 215+0.000 | 17,13 | 32,12 | | | 0,02 | 0,02 | 10,00 | 321,25 | | 0,16 | 0,16 | 57785,78 | 27212,71 | 11031,95 |
| 216+0.000 | 17,17 | 34,30 | | | | 0,02 | 10,00 | 343,05 | | 0,16 | 0,16 | 58128,83 | 27212,71 | 11032,11 |
| 217+0.000 | 17,23 | 34,40 | | | | | 10,00 | 344,02 | | | | 58472,85 | 27212,71 | 11032,11 |
| 218+0.000 | 15,14 | 32,37 | | | | | 10,00 | 323,69 | | | | 58796,54 | 27212,71 | 11032,11 |
| 219+0.000 | 15,22 | 30,36 | 0,03 | 0,03 | | | 10,00 | 303,62 | 0,26 | 0,26 | 0,52 | 59100,16 | 27212,97 | 11032,37 |
| 220+0.000 | 15,46 | 30,68 | 0,05 | 0,08 | | | 10,00 | 306,84 | 0,74 | 0,50 | 1,24 | 59407,00 | 27213,71 | 11032,87 |
| 221+0.000 | 17,36 | 32,82 | | 0,05 | | | 10,00 | 328,18 | 0,48 | 0,24 | 0,72 | 59735,18 | 27214,19 | 11033,11 |
| 222+0.000 | 20,24 | 37,60 | | | | | 10,00 | 375,97 | | | | 60111,15 | 27214,19 | 11033,11 |
| 223+0.000 | 21,70 | 41,94 | | | | | 10,00 | 419,43 | | | | 60530,58 | 27214,19 | 11033,11 |
| 224+0.000 | 17,68 | 39,38 | 0,01 | 0,01 | 0,01 | 0,01 | 10,00 | 393,81 | 0,12 | 0,12 | 0,24 | 60924,39 | 27214,31 | 11033,23 |
| 225+0.000 | 8,37 | 26,05 | 0,02 | 0,03 | 0,02 | 0,03 | 10,00 | 260,48 | 0,33 | 0,33 | 0,66 | 61184,87 | 27214,64 | 11033,56 |
| 226+0.000 | 7,44 | 15,81 | | 0,02 | | 0,02 | 10,00 | 158,07 | 0,21 | 0,21 | 0,42 | 61342,94 | 27214,85 | 11033,77 |
| 227+0.000 | 0,11 | 7,55 | 3,28 | 3,28 | 6,15 | 6,15 | 10,00 | 75,43 | 32,81 | 61,51 | 94,32 | 61418,37 | 27247,66 | 11095,28 |
| 228+0.000 | | 0,11 | 12,71 | 15,99 | 7,79 | 13,94 | 10,00 | 1,07 | 159,95 | 139,39 | 299,34 | 61419,44 | 27407,61 | 11234,67 |
| 229+0.000 | | | 14,24 | 26,95 | 7,84 | 15,63 | 10,00 | | 269,52 | 156,29 | 425,81 | 61419,44 | 27677,13 | 11390,96 |
| 230+0.000 | | | 15,38 | 29,62 | 7,85 | 15,69 | 10,00 | | 296,23 | 156,87 | 453,10 | 61419,44 | 27973,36 | 11547,83 |
| 231+0.000 | | | 11,09 | 26,47 | 7,85 | 15,70 | 10,00 | | 264,75 | 156,93 | 421,68 | 61419,44 | 28238,11 | 11704,76 |
| 232+0.000 | 0,86 | 0,86 | 6,34 | 17,43 | 7,85 | 15,70 | 10,00 | 8,61 | 174,33 | 156,93 | 331,26 | 61428,05 | 28412,44 | 11861,69 |
| 233+0.000 | | 0,86 | 41,40 | 47,74 | 7,85 | 15,70 | 10,00 | 8,61 | 477,46 | 156,93 | 634,39 | 61436,66 | 28889,90 | 12018,62 |
| 234+0.000 | 0,04 | 0,04 | 7,44 | 48,84 | 7,52 | 15,37 | 10,00 | 0,42 | 488,39 | 153,76 | 642,15 | 61437,08 | 29378,29 | 12172,38 |
| 235+0.000 | 0,05 | 0,09 | 5,87 | 13,31 | 7,75 | 15,27 | 10,00 | 0,90 | 133,01 | 152,84 | 285,85 | 61437,98 | 29511,30 | 12325,22 |
| 236+0.000 | | 0,05 | 4,92 | 10,79 | 7,84 | 15,59 | 10,00 | 0,48 | 107,81 | 156,01 | 263,82 | 61438,46 | 29619,11 | 12481,23 |
| 237+0.000 | | | 3,60 | 8,52 | 7,84 | 15,68 | 10,00 | | 85,12 | 156,93 | 242,05 | 61438,46 | 29704,23 | 12638,16 |
| 238+0.000 | | | 2,16 | 5,76 | 6,95 | 14,79 | 10,00 | | 57,52 | 147,98 | 205,50 | 61438,46 | 29761,75 | 12786,14 |
| 238+17.294 | | | 2,35 | 4,51 | 6,61 | 13,56 | 8,65 | | 38,97 | 117,25 | 156,22 | 61438,46 | 29800,72 | 12903,39 |
| 239+0.000 | | | 1,96 | 4,31 | 6,70 | 13,31 | 1,35 | | 5,83 | 18,01 | 23,84 | 61438,46 | 29806,55 | 12921,40 |
| 240+0.000 | | | 3,35 | 5,31 | 6,29 | 12,99 | 10,00 | 0,04 | 53,03 | 129,98 | 183,01 | 61438,50 | 29859,58 | 13051,38 |
| 240+17.294 | | | 2,75 | 6,10 | 6,81 | 13,10 | 8,65 | 0,04 | 52,46 | 113,25 | 165,71 | 61438,54 | 29912,04 | 13164,63 |
| 241+0.000 | | | 2,67 | 5,42 | 6,86 | 13,67 | 1,35 | | 7,33 | 18,50 | 25,83 | 61438,54 | 29919,37 | 13183,13 |
| 241+12.673 | 0,22 | 0,22 | 3,86 | 6,53 | 6,89 | 13,75 | 6,34 | 1,37 | 41,74 | 87,25 | 128,99 | 61439,91 | 29961,11 | 13270,38 |
| 242+0.000 | 0,20 | 0,42 | 4,82 | 8,68 | 7,26 | 14,15 | 3,66 | 1,51 | 31,80 | 51,83 | 83,63 | 61441,42 | 29992,91 | 13322,21 |
| 242+8.053 | 0,14 | 0,34 | 5,59 | 10,41 | 7,44 | 14,70 | 4,03 | 1,32 | 42,45 | 59,26 | 101,71 | 61442,74 | 30035,36 | 13381,47 |
| 243+0.000 | 0,13 | 0,27 | 6,83 | 12,42 | 7,23 | 14,67 | 5,97 | 1,55 | 74,94 | 87,72 | 162,66 | 61444,29 | 30110,30 | 13469,19 |
| 244+0.000 | 0,08 | 0,21 | 4,46 | 11,29 | 6,16 | 13,39 | 10,00 | 2,07 | 113,54 | 133,97 | 247,51 | 61446,36 | 30223,84 | 13603,16 |
| 244+8.053 | | 0,08 | 4,12 | 8,58 | 7,35 | 13,51 | 4,03 | 0,36 | 34,58 | 54,38 | 88,96 | 61446,72 | 30258,42 | 13657,54 |
| 245+0.000 | | | 2,94 | 7,06 | 7,79 | 15,14 | 5,97 | 0,04 | 42,21 | 90,42 | 132,63 | 61446,76 | 30300,63 | 13747,96 |
| 246+0.000 | | | 0,97 | 3,91 | 6,87 | 14,66 | 10,00 | | 39,12 | 146,60 | 185,72 | 61446,76 | 30339,75 | 13894,56 |
| 246+19.261 | 0,03 | 0,03 | | 0,97 | 5,78 | 12,65 | 9,63 | 0,29 | 9,35 | 121,85 | 131,20 | 61447,05 | 30349,10 | 14016,41 |
| 247+0.000 | 0,03 | 0,06 | | | 5,84 | 11,62 | 0,37 | 0,02 | | 4,29 | 4,29 | 61447,07 | 30349,10 | 14020,70 |
| 248+0.000 | | 0,03 | 1,65 | 1,65 | 7,51 | 13,35 | 10,00 | 0,31 | 16,54 | 133,62 | 150,16 | 61447,38 | 30365,64 | 14154,32 |
| 248+19.261 | 0,02 | 0,02 | 0,83 | 2,48 | 7,45 | 14,96 | 9,63 | 0,18 | 24,05 | 144,26 | 168,31 | 61447,56 | 30389,69 | 14298,58 |
| 249+0.000 | 0,02 | 0,04 | 0,67 | 1,50 | 7,47 | 14,92 | 0,37 | 0,02 | 0,55 | 5,51 | 6,06 | 61447,58 | 30390,24 | 14304,09 |
| 249+9.963 | 0,04 | 0,06 | 1,02 | 1,69 | 7,64 | 15,11 | 4,98 | 0,31 | 8,47 | 75,39 | 83,86 | 61447,89 | 30398,71 | 14379,48 |
| 250+0.000 | | 0,04 | 5,68 | 6,70 | 7,78 | 15,42 | 5,02 | 0,20 | 33,91 | 77,47 | 111,38 | 61448,09 | 30432,62 | 14456,95 |
| 250+0.665 | | | 5,78 | 11,46 | 7,78 | 15,56 | 0,33 | | 3,81 | 5,17 | 8,98 | 61448,09 | 30436,43 | 14462,12 |
| 251+0.000 | | | 2,39 | 8,17 | 8,04 | 15,82 | 9,67 | | 79,41 | 152,97 | 232,38 | 61448,09 | 30515,84 | 14615,09 |

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|-------|---------|-------|------------|-------|----------------|---------|--------|---------|--------|-----------|----------|----------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 252+0.000 | | | 2,44 | 4,83 | 7,72 | 15,76 | 10,00 | | 48,32 | 157,52 | 205,84 | 61448,09 | 30564,16 | 14772,61 |
| 252+0.665 | | | 2,43 | 4,87 | 7,70 | 15,42 | 0,33 | | 1,62 | 5,13 | 6,75 | 61448,09 | 30565,78 | 14777,74 |
| 253+0.000 | 0,01 | 0,01 | 0,39 | 2,82 | 5,63 | 13,33 | 9,67 | 0,12 | 27,27 | 128,87 | 156,14 | 61448,21 | 30593,05 | 14906,61 |
| 254+0.000 | 1,64 | 1,65 | | 0,39 | 1,33 | 6,96 | 10,00 | 16,55 | 3,88 | 69,57 | 73,45 | 61464,76 | 30596,93 | 14976,18 |
| 255+0.000 | 0,43 | 2,07 | | | 1,07 | 2,40 | 10,00 | 20,74 | | 23,98 | 23,98 | 61485,50 | 30596,93 | 15000,16 |
| 256+0.000 | 1,24 | 1,67 | | | 1,20 | 2,27 | 10,00 | 16,77 | | 22,71 | 22,71 | 61502,27 | 30596,93 | 15022,87 |
| 257+0.000 | 2,82 | 4,06 | | | 0,25 | 1,45 | 10,00 | 40,63 | | 14,45 | 14,45 | 61542,90 | 30596,93 | 15037,32 |
| 258+0.000 | 9,69 | 12,51 | | | | 0,25 | 10,00 | 125,12 | | 2,47 | 2,47 | 61668,02 | 30596,93 | 15039,79 |
| 259+0.000 | 11,44 | 21,13 | | | | | 10,00 | 211,34 | | | | 61879,36 | 30596,93 | 15039,79 |
| 260+0.000 | 8,09 | 19,53 | | | | | 10,00 | 195,28 | | | | 62074,64 | 30596,93 | 15039,79 |
| 261+0.000 | 11,32 | 19,41 | | | | | 10,00 | 194,10 | | | | 62268,74 | 30596,93 | 15039,79 |
| 262+0.000 | 11,02 | 22,34 | | | 1,57 | 1,57 | 10,00 | 223,43 | | 15,70 | 15,70 | 62492,17 | 30596,93 | 15055,49 |
| 263+0.000 | 13,14 | 24,16 | 0,94 | 0,94 | 2,53 | 4,10 | 10,00 | 241,62 | 9,42 | 41,01 | 50,43 | 62733,79 | 30606,35 | 15096,50 |
| 264+0.000 | 11,94 | 25,08 | 0,36 | 1,30 | 2,36 | 4,89 | 10,00 | 250,79 | 13,07 | 48,88 | 61,95 | 62984,58 | 30619,42 | 15145,38 |
| 265+0.000 | 10,04 | 21,98 | 0,02 | 0,38 | 1,51 | 3,87 | 10,00 | 219,76 | 3,88 | 38,63 | 42,51 | 63204,34 | 30623,30 | 15184,01 |
| 266+0.000 | 14,68 | 24,72 | | 0,02 | 2,66 | 4,17 | 10,00 | 247,17 | 0,24 | 41,68 | 41,92 | 63451,51 | 30623,54 | 15225,69 |
| 267+0.000 | 14,44 | 29,12 | 0,38 | 0,38 | 3,80 | 6,46 | 10,00 | 291,21 | 3,76 | 64,68 | 68,44 | 63742,72 | 30627,30 | 15290,37 |
| 268+0.000 | 11,61 | 26,05 | | 0,38 | 4,41 | 8,21 | 10,00 | 260,49 | 3,76 | 82,18 | 85,94 | 64003,21 | 30631,06 | 15372,55 |
| 269+0.000 | 16,25 | 27,86 | | | 1,45 | 5,86 | 10,00 | 278,54 | | 58,64 | 58,64 | 64281,75 | 30631,06 | 15431,19 |
| 270+0.000 | 15,32 | 31,57 | | | 2,08 | 3,53 | 10,00 | 315,69 | | 35,32 | 35,32 | 64597,44 | 30631,06 | 15466,51 |
| 271+0.000 | 15,00 | 30,32 | | | 2,79 | 4,87 | 10,00 | 303,25 | | 48,70 | 48,70 | 64900,69 | 30631,06 | 15515,21 |
| 272+0.000 | 15,19 | 30,19 | | | 1,97 | 4,76 | 10,00 | 301,89 | | 47,62 | 47,62 | 65202,58 | 30631,06 | 15562,83 |
| 273+0.000 | 15,35 | 30,54 | | | 0,78 | 2,75 | 10,00 | 305,40 | | 27,50 | 27,50 | 65507,98 | 30631,06 | 15590,33 |
| 274+0.000 | 15,65 | 31,00 | | | 1,17 | 1,95 | 10,00 | 310,05 | | 19,44 | 19,44 | 65818,03 | 30631,06 | 15609,77 |
| 275+0.000 | 14,24 | 29,89 | 0,01 | 0,01 | 1,75 | 2,92 | 10,00 | 298,95 | 0,14 | 29,13 | 29,27 | 66116,98 | 30631,20 | 15638,90 |
| 276+0.000 | 15,01 | 29,25 | | 0,01 | 1,08 | 2,83 | 10,00 | 292,48 | 0,14 | 28,28 | 28,42 | 66409,46 | 30631,34 | 15667,18 |
| 277+0.000 | 15,88 | 30,89 | | | 0,25 | 1,33 | 10,00 | 308,85 | 0,04 | 13,33 | 13,37 | 66718,31 | 30631,38 | 15680,51 |
| 277+16.927 | 17,47 | 33,35 | | | | 0,25 | 8,46 | 282,26 | 0,04 | 2,10 | 2,14 | 67000,57 | 30631,42 | 15682,61 |
| 278+0.000 | 18,02 | 35,49 | | | | | 1,54 | 54,52 | | | | 67055,09 | 30631,42 | 15682,61 |
| 279+0.000 | 18,87 | 36,89 | | | | | 10,00 | 368,89 | | | | 67423,98 | 30631,42 | 15682,61 |
| 279+12.757 | 18,56 | 37,43 | 0,02 | 0,02 | | | 6,38 | 238,74 | 0,11 | 0,09 | 0,20 | 67662,72 | 30631,53 | 15682,70 |
| 280+0.000 | 20,65 | 39,21 | 0,01 | 0,03 | | | 3,62 | 141,99 | 0,11 | 0,10 | 0,21 | 67804,71 | 30631,64 | 15682,80 |
| 281+0.000 | 20,70 | 41,35 | | 0,01 | | | 10,00 | 413,51 | 0,15 | 0,15 | 0,30 | 68218,22 | 30631,79 | 15682,95 |
| 281+8.587 | 17,75 | 38,45 | 0,03 | 0,03 | 0,03 | 0,03 | 4,29 | 165,09 | 0,11 | 0,09 | 0,20 | 68383,31 | 30631,90 | 15683,04 |
| 282+0.000 | 16,23 | 33,98 | 0,06 | 0,09 | 0,01 | 0,04 | 5,71 | 193,89 | 0,47 | 0,17 | 0,64 | 68577,20 | 30632,37 | 15683,21 |
| 283+0.000 | 17,64 | 33,87 | | 0,06 | | 0,01 | 10,00 | 338,66 | 0,61 | 0,10 | 0,71 | 68915,86 | 30632,98 | 15683,31 |
| 284+0.000 | 18,26 | 35,90 | | | | | 10,00 | 359,03 | 0,04 | 0,02 | 0,06 | 69274,89 | 30633,02 | 15683,33 |
| 285+0.000 | 22,88 | 41,14 | | | | | 10,00 | 411,45 | | | | 69686,34 | 30633,02 | 15683,33 |
| 286+0.000 | 20,14 | 43,02 | | | | | 10,00 | 430,17 | | | | 70116,51 | 30633,02 | 15683,33 |
| 287+0.000 | 20,71 | 40,85 | | | | | 10,00 | 408,41 | | | | 70524,92 | 30633,02 | 15683,33 |
| 288+0.000 | 21,10 | 41,81 | | | | | 10,00 | 418,00 | | | | 70942,92 | 30633,02 | 15683,33 |
| 289+0.000 | 22,99 | 44,09 | | | | | 10,00 | 440,88 | | | | 71383,80 | 30633,02 | 15683,33 |
| 290+0.000 | 24,01 | 47,00 | | | | | 10,00 | 470,03 | | | | 71853,83 | 30633,02 | 15683,33 |
| 291+0.000 | 22,99 | 47,00 | | | 0,07 | 0,07 | 10,00 | 469,96 | | 0,70 | 0,70 | 72323,79 | 30633,02 | 15684,03 |
| 292+0.000 | 23,15 | 46,14 | | | 0,12 | 0,19 | 10,00 | 461,39 | | 1,89 | 1,89 | 72785,18 | 30633,02 | 15685,92 |
| 293+0.000 | 22,33 | 45,48 | | | | 0,12 | 10,00 | 454,83 | | 1,19 | 1,19 | 73240,01 | 30633,02 | 15687,11 |
| 294+0.000 | 13,94 | 36,27 | 0,06 | 0,06 | 0,44 | 0,44 | 10,00 | 362,66 | 0,61 | 4,39 | 5,00 | 73602,67 | 30633,63 | 15691,50 |
| 295+0.000 | 11,10 | 25,04 | | 0,06 | 3,55 | 3,99 | 10,00 | 250,36 | 0,61 | 39,86 | 40,47 | 73853,03 | 30634,24 | 15731,36 |
| 296+0.000 | 6,95 | 18,05 | 0,78 | 0,78 | 6,98 | 10,53 | 10,00 | 180,52 | 7,81 | 105,25 | 113,06 | 74033,55 | 30642,05 | 15836,61 |
| 297+0.000 | 0,79 | 7,74 | 3,87 | 4,65 | 7,13 | 14,11 | 10,00 | 77,47 | 46,55 | 141,00 | 187,55 | 74111,02 | 30688,60 | 15977,61 |
| 298+0.000 | 0,39 | 1,18 | 12,92 | 16,79 | 7,79 | 14,92 | 10,00 | 11,82 | 167,92 | 149,09 | 317,01 | 74122,84 | 30856,52 | 16126,70 |
| 299+0.000 | 0,08 | 0,47 | 21,48 | 34,40 | 7,82 | 15,61 | 10,00 | 4,70 | 343,94 | 156,15 | 500,09 | 74127,54 | 31200,46 | 16282,85 |
| 300+0.000 | | 0,08 | 23,50 | 44,98 | 7,95 | 15,77 | 10,00 | 0,82 | 449,71 | 157,81 | 607,52 | 74128,36 | 31650,17 | 16440,66 |
| 301+0.000 | | | 24,76 | 48,26 | 7,78 | 15,73 | 10,00 | | 482,54 | 157,40 | 639,94 | 74128,36 | 32132,71 | 16598,06 |
| 302+0.000 | | | 26,43 | 51,19 | 7,79 | 15,57 | 10,00 | | 511,89 | 155,74 | 667,63 | 74128,36 | 32644,60 | 16753,80 |
| 303+0.000 | | | 25,49 | 51,92 | 7,78 | 15,57 | 10,00 | | 519,18 | 155,75 | 674,93 | 74128,36 | 33163,78 | 16909,55 |
| 304+0.000 | | | 25,93 | 51,42 | 7,79 | 15,57 | 10,00 | | 514,20 | 155,75 | 669,95 | 74128,36 | 33677,98 | 17065,30 |
| 305+0.000 | | | 15,75 | 41,68 | 7,79 | 15,58 | 10,00 | | 416,86 | 155,76 | 572,62 | 74128,36 | 34094,84 | 17221,06 |
| 306+0.000 | | | 9,59 | 25,34 | 7,76 | 15,55 | 10,00 | | 253,48 | 155,39 | 408,87 | 74128,36 | 34348,32 | 17376,45 |
| 307+0.000 | | | 1,99 | 11,58 | 6,53 | 14,29 | 10,00 | | 115,84 | 142,84 | 258,68 | 74128,36 | 34464,16 | 17519,29 |
| 308+0.000 | 14,40 | 14,40 | | 1,99 | 3,23 | 9,76 | 10,00 | 143,96 | 19,91 | 97,63 | 117,54 | 74272,32 | 34484,07 | 17616,92 |
| 309+0.000 | 21,06 | 35,46 | | | 0,21 | 3,44 | 10,00 | 354,58 | | 34,37 | 34,37 | 74626,90 | 34484,07 | 17651,29 |
| 310+0.000 | 29,79 | 50,85 | | | | 0,21 | 10,00 | 508,56 | | 2,06 | 2,06 | 75135,46 | 34484,07 | 17653,35 |
| 311+0.000 | 31,13 | 60,92 | | | | | 10,00 | 609,26 | | | | 75744,72 | 34484,07 | 17653,35 |
| 312+0.000 | 31,73 | 62,86 | | | | | 10,00 | 628,65 | | | | 76373,37 | 34484,07 | 17653,35 |
| 312+2.589 | 31,15 | 62,88 | | | | | 1,29 | 81,39 | | | | 76454,76 | 34484,07 | 17653,35 |
| 313+0.000 | 33,45 | 64,60 | | | | | 8,71 | 562,36 | | | | 77017,12 | 34484,07 | 17653,35 |
| 313+4.802 | 33,09 | 66,54 | | | | | 2,40 | 159,76 | | | | 77176,88 | 34484,07 | 17653,35 |
| 314+0.000 | 37,78 | 70,87 | | | | | 7,60 | 538,50 | | | | 77715,38 | 34484,07 | 17653,35 |

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|-------|---------|-------|------------|-------|----------------|---------|--------|---------|--------|-----------|----------|----------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 314+7.016 | 29,23 | 67,01 | 0,01 | 0,01 | | | 3,51 | 235,07 | 0,05 | | 0,05 | 77950,45 | 34484,12 | 17653,35 |
| 315+0.000 | 29,30 | 58,53 | | 0,01 | | | 6,49 | 379,92 | 0,10 | 0,02 | 0,12 | 78330,37 | 34484,22 | 17653,37 |
| 316+0.000 | 29,32 | 58,62 | | | | | 10,00 | 586,15 | 0,01 | 0,02 | 0,03 | 78916,52 | 34484,23 | 17653,39 |
| 317+0.000 | 28,21 | 57,53 | | | | | 10,00 | 575,24 | | | | 79491,76 | 34484,23 | 17653,39 |
| 318+0.000 | 26,11 | 54,32 | | | | | 10,00 | 543,11 | | | | 80034,87 | 34484,23 | 17653,39 |
| 319+0.000 | 24,65 | 50,76 | | | | | 10,00 | 507,51 | | | | 80542,38 | 34484,23 | 17653,39 |
| 320+0.000 | 21,81 | 46,46 | | | | | 10,00 | 464,55 | | | | 81006,93 | 34484,23 | 17653,39 |
| 321+0.000 | 14,71 | 36,52 | 0,03 | 0,03 | 0,08 | 0,08 | 10,00 | 365,23 | 0,26 | 0,82 | 1,08 | 81372,16 | 34484,49 | 17654,21 |
| 321+6.535 | 16,33 | 31,04 | 0,01 | 0,04 | 0,01 | 0,09 | 3,27 | 101,45 | 0,12 | 0,28 | 0,40 | 81473,61 | 34484,61 | 17654,49 |
| 322+0.000 | 23,32 | 39,65 | | 0,01 | | 0,01 | 6,73 | 266,93 | 0,07 | 0,03 | 0,10 | 81740,54 | 34484,68 | 17654,52 |
| 322+0.379 | 23,60 | 46,92 | | | | | 0,19 | 8,90 | | | | 81749,44 | 34484,68 | 17654,52 |
| 322+14.224 | 19,83 | 43,43 | | | | | 6,92 | 300,68 | | | | 82050,12 | 34484,68 | 17654,52 |
| 323+0.000 | 20,74 | 40,57 | | | | | 2,89 | 117,18 | | | | 82167,30 | 34484,68 | 17654,52 |
| 324+0.000 | 17,22 | 37,96 | | | | | 10,00 | 379,64 | 0,05 | | 0,05 | 82546,94 | 34484,73 | 17654,52 |
| 325+0.000 | 15,81 | 33,03 | | | | | 10,00 | 330,29 | 0,05 | | 0,05 | 82877,23 | 34484,78 | 17654,52 |
| 326+0.000 | 17,61 | 33,42 | | | | | 10,00 | 334,11 | | | | 83211,34 | 34484,78 | 17654,52 |
| 327+0.000 | 16,66 | 34,27 | | | | | 10,00 | 342,60 | | | | 83553,94 | 34484,78 | 17654,52 |
| 328+0.000 | 14,66 | 31,32 | | | | | 10,00 | 313,18 | | | | 83867,12 | 34484,78 | 17654,52 |
| 329+0.000 | 13,32 | 27,98 | | | | | 10,00 | 279,87 | | | | 84146,99 | 34484,78 | 17654,52 |
| 330+0.000 | 8,88 | 22,20 | 0,21 | 0,21 | 0,17 | 0,17 | 10,00 | 222,02 | 2,07 | 1,72 | 3,79 | 84369,01 | 34486,85 | 17656,24 |
| 331+0.000 | 15,89 | 24,77 | | 0,21 | 0,01 | 0,18 | 10,00 | 247,69 | 2,07 | 1,82 | 3,89 | 84616,70 | 34488,92 | 17658,06 |
| 332+0.000 | 14,62 | 30,51 | | | 0,18 | 0,19 | 10,00 | 305,08 | | 1,90 | 1,90 | 84921,78 | 34488,92 | 17659,96 |
| 333+0.000 | 10,46 | 25,08 | | | 1,40 | 1,58 | 10,00 | 250,77 | 0,08 | 15,77 | 15,85 | 85172,55 | 34489,00 | 17675,73 |
| 334+0.000 | 12,98 | 23,44 | | | 1,44 | 2,84 | 10,00 | 234,36 | 0,08 | 28,34 | 28,42 | 85406,91 | 34489,08 | 17704,07 |
| 335+0.000 | 17,52 | 30,50 | | | 0,06 | 1,50 | 10,00 | 304,94 | | 14,99 | 14,99 | 85711,85 | 34489,08 | 17719,06 |
| 336+0.000 | 12,39 | 29,91 | | | 0,43 | 0,49 | 10,00 | 299,04 | | 4,89 | 4,89 | 86010,89 | 34489,08 | 17723,95 |
| 337+0.000 | 12,00 | 24,39 | | | 0,43 | 0,86 | 10,00 | 243,87 | | 8,59 | 8,59 | 86254,76 | 34489,08 | 17732,54 |
| 338+0.000 | 13,63 | 25,63 | | | 0,58 | 1,01 | 10,00 | 256,28 | | 10,13 | 10,13 | 86511,04 | 34489,08 | 17742,67 |
| 339+0.000 | 13,63 | 27,26 | | | 0,95 | 1,53 | 10,00 | 272,59 | | 15,28 | 15,28 | 86783,63 | 34489,08 | 17757,95 |
| 340+0.000 | 10,99 | 24,62 | | | 2,34 | 3,29 | 10,00 | 246,24 | | 32,87 | 32,87 | 87029,87 | 34489,08 | 17790,82 |
| 341+0.000 | 6,52 | 17,51 | 2,08 | 2,08 | 6,60 | 8,94 | 10,00 | 175,18 | 20,84 | 89,42 | 110,26 | 87205,05 | 34509,92 | 17880,24 |
| 342+0.000 | | 6,52 | 3,28 | 5,36 | 7,72 | 14,32 | 10,00 | 65,24 | 53,61 | 143,20 | 196,81 | 87270,29 | 34563,53 | 18023,44 |
| 343+0.000 | | | 6,04 | 9,32 | 7,79 | 15,51 | 10,00 | | 93,15 | 155,08 | 248,23 | 87270,29 | 34656,68 | 18178,52 |
| 344+0.000 | | | 5,03 | 11,07 | 7,17 | 14,96 | 10,00 | | 110,68 | 149,58 | 260,26 | 87270,29 | 34767,36 | 18328,10 |
| 345+0.000 | | | 9,70 | 14,73 | 7,74 | 14,91 | 10,00 | | 147,27 | 149,10 | 296,37 | 87270,29 | 34914,63 | 18477,20 |
| 346+0.000 | | | 19,53 | 29,23 | 7,79 | 15,53 | 10,00 | | 292,31 | 155,29 | 447,60 | 87270,29 | 35206,94 | 18632,49 |
| 347+0.000 | | | 27,97 | 47,50 | 7,79 | 15,58 | 10,00 | | 475,09 | 155,77 | 630,86 | 87270,29 | 35682,03 | 18788,26 |
| 348+0.000 | | | 31,06 | 59,03 | 7,79 | 15,58 | 10,00 | | 590,34 | 155,77 | 746,11 | 87270,29 | 36272,37 | 18944,03 |
| 349+0.000 | | | 30,71 | 61,77 | 7,78 | 15,57 | 10,00 | | 617,64 | 155,78 | 773,42 | 87270,29 | 36890,01 | 19099,81 |
| 350+0.000 | | | 25,16 | 55,87 | 7,79 | 15,57 | 10,00 | | 558,65 | 155,78 | 714,43 | 87270,29 | 37448,66 | 19255,59 |
| 351+0.000 | 0,03 | 0,03 | 24,73 | 49,89 | 7,79 | 15,58 | 10,00 | 0,29 | 498,88 | 155,78 | 654,66 | 87270,58 | 37947,54 | 19411,37 |
| 352+0.000 | 0,05 | 0,08 | 23,01 | 47,74 | 7,79 | 15,58 | 10,00 | 0,84 | 477,34 | 155,79 | 633,13 | 87271,42 | 38424,88 | 19567,16 |
| 353+0.000 | | 0,05 | 27,89 | 50,90 | 7,79 | 15,58 | 10,00 | 0,55 | 508,94 | 155,78 | 664,72 | 87271,97 | 38933,82 | 19722,94 |
| 354+0.000 | | | 31,95 | 59,84 | 7,79 | 15,58 | 10,00 | | 598,41 | 155,79 | 754,20 | 87271,97 | 39532,23 | 19878,73 |
| 355+0.000 | | | 30,48 | 62,43 | 7,79 | 15,58 | 10,00 | | 624,33 | 155,78 | 780,11 | 87271,97 | 40156,56 | 20034,51 |
| 356+0.000 | | | 26,88 | 57,36 | 7,79 | 15,58 | 10,00 | | 573,59 | 155,79 | 729,38 | 87271,97 | 40730,15 | 20190,30 |
| 357+0.000 | | | 24,49 | 51,37 | 7,79 | 15,58 | 10,00 | | 513,67 | 155,79 | 669,46 | 87271,97 | 41243,82 | 20346,09 |
| 358+0.000 | 0,02 | 0,02 | 19,78 | 44,27 | 7,79 | 15,58 | 10,00 | 0,20 | 442,71 | 155,80 | 598,51 | 87272,17 | 41686,53 | 20501,89 |
| 359+0.000 | 0,20 | 0,22 | 13,65 | 33,43 | 7,79 | 15,58 | 10,00 | 2,23 | 334,37 | 155,80 | 490,17 | 87274,40 | 42020,90 | 20657,69 |
| 360+0.000 | 0,31 | 0,51 | 18,97 | 32,62 | 7,79 | 15,58 | 10,00 | 5,12 | 326,24 | 155,80 | 482,04 | 87279,52 | 42347,14 | 20813,49 |
| 361+0.000 | | 0,31 | 19,31 | 38,28 | 7,79 | 15,58 | 10,00 | 3,09 | 382,82 | 155,80 | 538,62 | 87282,61 | 42729,96 | 20969,29 |
| 362+0.000 | | | 16,98 | 36,29 | 7,79 | 15,58 | 10,00 | | 362,95 | 155,80 | 518,75 | 87282,61 | 43092,91 | 21125,09 |
| 363+0.000 | | | 14,15 | 31,13 | 7,79 | 15,58 | 10,00 | | 311,35 | 155,81 | 467,16 | 87282,61 | 43404,26 | 21280,90 |
| 364+0.000 | | | 12,56 | 26,71 | 7,79 | 15,58 | 10,00 | | 267,11 | 155,81 | 422,92 | 87282,61 | 43671,37 | 21436,71 |
| 365+0.000 | | | 11,25 | 23,81 | 7,79 | 15,58 | 10,00 | | 238,13 | 155,81 | 393,94 | 87282,61 | 43909,50 | 21592,52 |
| 366+0.000 | | | 10,52 | 21,77 | 7,79 | 15,58 | 10,00 | | 217,70 | 155,82 | 373,52 | 87282,61 | 44127,20 | 21748,34 |
| 367+0.000 | | | 10,98 | 21,50 | 10,89 | 18,68 | 10,00 | | 214,98 | 186,78 | 401,76 | 87282,61 | 44342,18 | 21935,12 |
| 368+0.000 | | | 0,17 | 11,15 | 0,17 | 11,06 | 10,00 | | 111,52 | 107,15 | 218,67 | 87282,61 | 44453,70 | 22042,27 |
| 369+0.000 | | | 0,27 | 0,44 | 0,27 | 0,44 | 10,00 | | | 4,37 | 4,37 | 87282,61 | 44453,70 | 22046,64 |
| 369+6.085 | | | 0,08 | 0,35 | 0,08 | 0,35 | 3,04 | | | 1,05 | 1,05 | 87282,61 | 44453,70 | 22047,69 |
| 370+0.000 | | | 0,33 | 0,41 | 0,33 | 0,41 | 6,96 | | | 0,53 | 0,53 | 87282,61 | 44453,70 | 22048,22 |
| 371+0.000 | 0,47 | 0,47 | 0,09 | 0,42 | 5,85 | 6,18 | 10,00 | 4,72 | 4,19 | 55,20 | 59,39 | 87287,33 | 44457,89 | 22103,42 |
| 372+0.000 | | 0,47 | 3,39 | 3,48 | 7,27 | 13,12 | 10,00 | 4,72 | 34,75 | 131,20 | 165,95 | 87292,05 | 44492,64 | 22234,62 |
| 373+0.000 | | | 4,05 | 7,44 | 7,35 | 14,62 | 10,00 | | 74,38 | 146,22 | 220,60 | 87292,05 | 44567,02 | 22380,84 |
| 374+0.000 | | | 2,10 | 6,15 | 6,04 | 13,39 | 10,00 | | 61,48 | 133,95 | 195,43 | 87292,05 | 44628,50 | 22514,79 |
| 375+0.000 | 0,42 | 0,42 | 0,54 | 2,64 | 4,55 | 10,59 | 10,00 | 4,15 | 26,43 | 105,90 | 132,33 | 87296,20 | 44654,93 | 22620,69 |
| 376+0.000 | 1,00 | 1,42 | | 0,54 | 2,83 | 7,38 | 10,00 | 14,19 | 5,43 | 73,77 | 79,20 | 87310,39 | 44660,36 | 22694,46 |
| 377+0.000 | 2,99 | 3,99 | | | 2,35 | 5,18 | 10,00 | 39,91 | | 51,80 | 51,80 | 87350,30 | 44660,36 | 22746,26 |
| 378+0.000 | 3,44 | 6,43 | | | 1,16 | 3,51 | 10,00 | 64,28 | | 35,19 | 35,19 | 87414,58 | 44660,36 | 22781,45 |

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|-------|---------|-------|------------|-------|----------------|---------|--------|---------|--------|-----------|----------|----------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 379+0.000 | 2,15 | 5,59 | | | 2,08 | 3,24 | 10,00 | 55,90 | | 32,41 | 32,41 | 87470,48 | 44660,36 | 22813,86 |
| 380+0.000 | 3,56 | 5,71 | | | 1,22 | 3,30 | 10,00 | 57,12 | | 32,97 | 32,97 | 87527,60 | 44660,36 | 22846,83 |
| 381+0.000 | 1,76 | 5,32 | | | 0,32 | 1,54 | 10,00 | 53,20 | | 15,43 | 15,43 | 87580,80 | 44660,36 | 22862,26 |
| 382+0.000 | 5,58 | 7,34 | | | | 0,32 | 10,00 | 73,39 | | 3,22 | 3,22 | 87654,19 | 44660,36 | 22865,48 |
| 383+0.000 | 5,98 | 11,56 | | | | | 10,00 | 115,58 | | | | 87769,77 | 44660,36 | 22865,48 |
| 384+0.000 | 3,84 | 9,82 | | | | | 10,00 | 98,17 | | | | 87867,94 | 44660,36 | 22865,48 |
| 385+0.000 | 0,84 | 4,68 | | | 1,60 | 1,60 | 10,00 | 46,83 | | 16,04 | 16,04 | 87914,77 | 44660,36 | 22881,52 |
| 386+0.000 | 0,06 | 0,90 | 0,89 | 0,89 | 5,30 | 6,90 | 10,00 | 9,04 | 8,95 | 69,03 | 77,98 | 87923,81 | 44669,31 | 22950,55 |
| 387+0.000 | | 0,06 | 7,40 | 8,29 | 7,27 | 12,57 | 10,00 | 0,62 | 82,95 | 125,67 | 208,62 | 87924,43 | 44752,26 | 23076,22 |
| 388+0.000 | | | 11,63 | 19,03 | 7,79 | 15,06 | 10,00 | | 190,28 | 150,65 | 340,93 | 87924,43 | 44942,54 | 23226,87 |
| 389+0.000 | | | 15,50 | 27,13 | 7,79 | 15,58 | 10,00 | | 271,24 | 155,90 | 427,14 | 87924,43 | 45213,78 | 23382,77 |
| 390+0.000 | | | 17,84 | 33,34 | 7,80 | 15,59 | 10,00 | | 333,35 | 155,91 | 489,26 | 87924,43 | 45547,13 | 23538,68 |
| 391+0.000 | | | 17,00 | 34,84 | 7,80 | 15,60 | 10,00 | | 348,40 | 155,91 | 504,31 | 87924,43 | 45895,53 | 23694,59 |
| 392+0.000 | | | 17,60 | 34,60 | 7,80 | 15,60 | 10,00 | | 346,00 | 155,92 | 501,92 | 87924,43 | 46241,53 | 23850,51 |
| 393+0.000 | | | 13,38 | 30,98 | 7,79 | 15,59 | 10,00 | | 309,78 | 155,92 | 465,70 | 87924,43 | 46551,31 | 24006,43 |
| 394+0.000 | | | 10,69 | 24,07 | 7,80 | 15,59 | 10,00 | | 240,69 | 155,93 | 396,62 | 87924,43 | 46792,00 | 24162,36 |
| 394+12.981 | 0,11 | 0,11 | 14,68 | 25,37 | 7,79 | 15,59 | 6,49 | 0,70 | 164,66 | 101,14 | 265,80 | 87925,13 | 46956,66 | 24263,50 |
| 395+0.000 | | 0,11 | 20,27 | 34,95 | 8,52 | 16,31 | 3,51 | 0,38 | 122,67 | 57,22 | 179,89 | 87925,51 | 47079,33 | 24320,72 |
| 395+16.496 | | | 23,85 | 44,12 | 8,54 | 17,06 | 8,25 | | 363,97 | 140,64 | 504,61 | 87925,51 | 47443,30 | 24461,36 |
| 396+0.000 | | | 24,22 | 48,07 | 8,54 | 17,08 | 1,75 | | 84,22 | 29,92 | 114,14 | 87925,51 | 47527,52 | 24491,28 |
| 397+0.000 | | | 23,31 | 47,53 | 7,85 | 16,39 | 10,00 | | 475,31 | 163,86 | 639,17 | 87925,51 | 48002,83 | 24655,14 |
| 397+0.011 | | | 25,86 | 49,17 | 7,79 | 15,64 | | | 0,28 | 0,08 | 0,36 | 87925,51 | 48003,11 | 24655,22 |
| 398+0.000 | | | 22,92 | 48,78 | 7,79 | 15,58 | 9,99 | | 487,54 | 155,67 | 643,21 | 87925,51 | 48490,65 | 24810,89 |
| 399+0.000 | | | 24,32 | 47,24 | 7,79 | 15,58 | 10,00 | | 472,43 | 155,76 | 628,19 | 87925,51 | 48963,08 | 24966,65 |
| 400+0.000 | | | 23,96 | 48,28 | 7,79 | 15,58 | 10,00 | | 482,86 | 155,76 | 638,62 | 87925,51 | 49445,94 | 25122,41 |
| 401+0.000 | | | 22,69 | 46,65 | 7,78 | 15,57 | 10,00 | | 466,50 | 155,77 | 622,27 | 87925,51 | 49912,44 | 25278,18 |
| 402+0.000 | | | 22,95 | 45,64 | 7,78 | 15,56 | 10,00 | | 456,32 | 155,77 | 612,09 | 87925,51 | 50368,76 | 25433,95 |
| 403+0.000 | | | 22,16 | 45,11 | 7,79 | 15,57 | 10,00 | | 451,10 | 155,77 | 606,87 | 87925,51 | 50819,86 | 25589,72 |
| 404+0.000 | | | 21,70 | 43,86 | 7,79 | 15,58 | 10,00 | | 438,61 | 155,77 | 594,38 | 87925,51 | 51258,47 | 25745,49 |
| 405+0.000 | | | 19,54 | 41,24 | 7,79 | 15,58 | 10,00 | | 412,38 | 155,78 | 568,16 | 87925,51 | 51670,85 | 25901,27 |
| 406+0.000 | | | 19,77 | 39,31 | 7,79 | 15,58 | 10,00 | | 393,07 | 155,78 | 548,85 | 87925,51 | 52063,92 | 26057,05 |
| 407+0.000 | | | 20,39 | 40,16 | 7,79 | 15,58 | 10,00 | | 401,60 | 155,79 | 557,39 | 87925,51 | 52465,52 | 26212,84 |
| 408+0.000 | | | 19,00 | 39,39 | 7,78 | 15,57 | 10,00 | | 393,90 | 155,79 | 549,69 | 87925,51 | 52859,42 | 26368,63 |
| 409+0.000 | | | 15,98 | 34,98 | 7,79 | 15,57 | 10,00 | | 349,75 | 155,80 | 505,55 | 87925,51 | 53209,17 | 26524,43 |
| 410+0.000 | | | 11,34 | 27,32 | 7,79 | 15,58 | 10,00 | | 273,24 | 155,79 | 429,03 | 87925,51 | 53482,41 | 26680,22 |
| 411+0.000 | | | 10,15 | 21,49 | 7,79 | 15,58 | 10,00 | | 214,90 | 155,80 | 370,70 | 87925,51 | 53697,31 | 26836,02 |
| 412+0.000 | | | 10,35 | 20,50 | 7,79 | 15,58 | 10,00 | | 204,98 | 155,81 | 360,79 | 87925,51 | 53902,29 | 26991,83 |
| 413+0.000 | | | 14,48 | 24,83 | 7,79 | 15,58 | 10,00 | | 248,30 | 155,81 | 404,11 | 87925,51 | 54150,59 | 27147,64 |
| 414+0.000 | | | 12,88 | 27,36 | 7,79 | 15,58 | 10,00 | | 273,58 | 155,81 | 429,39 | 87925,51 | 54424,17 | 27303,45 |
| 415+0.000 | | | 8,30 | 21,18 | 7,79 | 15,58 | 10,00 | | 211,78 | 155,81 | 367,59 | 87925,51 | 54635,95 | 27459,26 |
| 416+0.000 | | | 9,05 | 17,35 | 7,80 | 15,59 | 10,00 | | 173,53 | 155,81 | 329,34 | 87925,51 | 54809,48 | 27615,07 |
| 417+0.000 | | | 8,98 | 18,03 | 7,79 | 15,59 | 10,00 | | 180,33 | 155,82 | 336,15 | 87925,51 | 54989,81 | 27770,89 |
| 418+0.000 | | | 7,11 | 16,09 | 7,79 | 15,58 | 10,00 | | 160,84 | 155,83 | 316,67 | 87925,51 | 55150,65 | 27926,72 |
| 419+0.000 | | | 5,34 | 12,45 | 7,79 | 15,58 | 10,00 | | 124,47 | 155,83 | 280,30 | 87925,51 | 55275,12 | 28082,55 |
| 420+0.000 | | | 5,85 | 11,19 | 7,79 | 15,58 | 10,00 | | 111,88 | 155,83 | 267,71 | 87925,51 | 55387,00 | 28238,38 |
| 421+0.000 | | | 8,00 | 13,85 | 7,79 | 15,58 | 10,00 | | 138,48 | 155,84 | 294,32 | 87925,51 | 55525,48 | 28394,22 |
| 422+0.000 | | | 8,90 | 16,90 | 7,79 | 15,58 | 10,00 | | 169,03 | 155,83 | 324,86 | 87925,51 | 55694,51 | 28550,05 |
| 423+0.000 | | | 5,24 | 14,14 | 7,50 | 15,29 | 10,00 | | 141,43 | 152,89 | 294,32 | 87925,51 | 55835,94 | 28702,94 |
| 424+0.000 | 0,42 | 0,42 | 0,15 | 5,39 | 4,90 | 12,40 | 10,00 | 4,24 | 53,93 | 123,93 | 177,86 | 87929,75 | 55889,87 | 28826,87 |
| 425+0.000 | 14,45 | 14,87 | | 0,15 | 2,04 | 6,94 | 10,00 | 148,74 | 1,51 | 69,32 | 70,83 | 88078,49 | 55891,38 | 28896,19 |
| 426+0.000 | 17,49 | 31,94 | | | 0,14 | 2,18 | 10,00 | 319,40 | | 21,78 | 21,78 | 88397,89 | 55891,38 | 28917,97 |
| 427+0.000 | 21,52 | 39,01 | | | | 0,14 | 10,00 | 390,08 | | 1,42 | 1,42 | 88787,97 | 55891,38 | 28919,39 |
| 428+0.000 | 27,61 | 49,13 | | | | | 10,00 | 491,25 | | | | 89279,22 | 55891,38 | 28919,39 |
| 429+0.000 | 29,80 | 57,41 | | | | | 10,00 | 574,12 | | | | 89853,34 | 55891,38 | 28919,39 |
| 430+0.000 | 27,80 | 57,60 | | | | | 10,00 | 576,06 | | | | 90429,40 | 55891,38 | 28919,39 |
| 431+0.000 | 30,47 | 58,27 | | | | | 10,00 | 582,71 | | | | 91012,11 | 55891,38 | 28919,39 |
| 432+0.000 | 33,48 | 63,95 | | | | | 10,00 | 639,48 | | | | 91651,59 | 55891,38 | 28919,39 |
| 433+0.000 | 31,93 | 65,41 | | | | | 10,00 | 654,07 | | | | 92305,66 | 55891,38 | 28919,39 |
| 434+0.000 | 29,48 | 61,41 | | | | | 10,00 | 614,14 | | | | 92919,80 | 55891,38 | 28919,39 |
| 435+0.000 | 31,02 | 60,50 | | | | | 10,00 | 605,08 | | | | 93524,88 | 55891,38 | 28919,39 |
| 436+0.000 | 29,62 | 60,64 | | | | | 10,00 | 606,44 | | | | 94131,32 | 55891,38 | 28919,39 |
| 437+0.000 | 29,97 | 59,59 | | | | | 10,00 | 595,90 | | | | 94727,22 | 55891,38 | 28919,39 |
| 438+0.000 | 27,21 | 57,18 | | | | | 10,00 | 571,77 | | | | 95298,99 | 55891,38 | 28919,39 |
| 439+0.000 | 24,60 | 51,81 | | | | | 10,00 | 518,07 | | | | 95817,06 | 55891,38 | 28919,39 |
| 440+0.000 | 25,04 | 49,64 | | | | | 10,00 | 496,43 | | | | 96313,49 | 55891,38 | 28919,39 |
| 441+0.000 | 17,84 | 42,88 | | | 0,34 | 0,34 | 10,00 | 428,79 | | 3,45 | 3,45 | 96742,28 | 55891,38 | 28922,84 |
| 442+0.000 | 16,11 | 33,95 | | | 0,20 | 0,54 | 10,00 | 339,44 | | 5,49 | 5,49 | 97081,72 | 55891,38 | 28928,33 |
| 443+0.000 | 13,22 | 29,33 | | | 0,84 | 1,04 | 10,00 | 293,29 | | 10,50 | 10,50 | 97375,01 | 55891,38 | 28938,83 |
| 444+0.000 | 11,24 | 24,46 | | | 1,17 | 2,01 | 10,00 | 244,64 | | 20,17 | 20,17 | 97619,65 | 55891,38 | 28959,00 |

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|--------|---------|------|------------|-------|----------------|---------|-------|---------|--------|-----------|----------|----------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 445+0.000 | 7,34 | 18,58 | | | 3,03 | 4,20 | 10,00 | 185,86 | | 42,05 | 42,05 | 97805,51 | 55891,38 | 29001,05 |
| 446+0.000 | 6,97 | 14,31 | | | 4,12 | 7,15 | 10,00 | 143,10 | | 71,55 | 71,55 | 97948,61 | 55891,38 | 29072,60 |
| 447+0.000 | 5,49 | 12,46 | | | 5,38 | 9,50 | 10,00 | 124,61 | | 95,06 | 95,06 | 98073,22 | 55891,38 | 29167,66 |
| 448+0.000 | 4,83 | 10,32 | 0,03 | 0,03 | 5,70 | 11,08 | 10,00 | 103,23 | 0,34 | 110,83 | 111,17 | 98176,45 | 55891,72 | 29278,49 |
| 448+5.991 | 3,84 | 8,67 | 0,17 | 0,20 | 7,07 | 12,77 | 3,00 | 25,96 | 0,61 | 38,26 | 38,87 | 98202,41 | 55892,33 | 29316,75 |
| 449+0.000 | 3,49 | 7,33 | 1,65 | 1,82 | 7,69 | 14,76 | 7,00 | 51,34 | 12,74 | 103,41 | 116,15 | 98253,75 | 55905,07 | 29420,16 |
| 449+0.618 | 3,56 | 7,05 | 1,69 | 3,34 | 7,62 | 15,31 | 0,31 | 2,18 | 1,03 | 4,73 | 5,76 | 98255,93 | 55906,10 | 29424,89 |
| 449+15.245 | 3,45 | 7,01 | 2,44 | 4,13 | 7,67 | 15,29 | 7,31 | 51,25 | 30,19 | 111,84 | 142,03 | 98307,18 | 55936,29 | 29536,73 |
| 450+0.000 | 3,27 | 6,72 | 2,79 | 5,23 | 7,71 | 15,38 | 2,38 | 15,98 | 12,44 | 36,56 | 49,00 | 98323,16 | 55948,73 | 29573,29 |
| 451+0.000 | 2,18 | 5,45 | 4,90 | 7,69 | 8,60 | 16,31 | 10,00 | 54,53 | 76,91 | 163,10 | 240,01 | 98377,69 | 56025,64 | 29736,39 |
| 452+0.000 | 2,31 | 4,49 | 3,88 | 8,78 | 8,14 | 16,74 | 10,00 | 44,88 | 87,76 | 167,44 | 255,20 | 98422,57 | 56113,40 | 29903,83 |
| 453+0.000 | 2,11 | 4,42 | 4,63 | 8,51 | 8,52 | 16,66 | 10,00 | 44,17 | 85,07 | 166,60 | 251,67 | 98466,74 | 56198,47 | 30070,43 |
| 454+0.000 | 2,70 | 4,81 | 4,39 | 9,02 | 8,18 | 16,70 | 10,00 | 48,06 | 90,14 | 167,10 | 257,24 | 98514,80 | 56288,61 | 30237,53 |
| 455+0.000 | 3,05 | 5,75 | 3,94 | 8,33 | 8,33 | 16,51 | 10,00 | 57,44 | 83,22 | 165,23 | 248,45 | 98572,24 | 56371,83 | 30402,76 |
| 456+0.000 | 2,29 | 5,34 | 3,65 | 7,59 | 8,39 | 16,72 | 10,00 | 53,41 | 75,82 | 167,34 | 243,16 | 98625,65 | 56447,65 | 30570,10 |
| 457+0.000 | 3,92 | 6,21 | 3,08 | 6,73 | 8,06 | 16,45 | 10,00 | 62,08 | 67,23 | 164,62 | 231,85 | 98687,73 | 56514,88 | 30734,72 |
| 458+0.000 | 3,47 | 7,39 | 3,07 | 6,15 | 8,19 | 16,25 | 10,00 | 73,83 | 61,42 | 162,61 | 224,03 | 98761,56 | 56576,30 | 30897,33 |
| 459+0.000 | 4,49 | 7,96 | 1,34 | 4,41 | 7,39 | 15,58 | 10,00 | 79,63 | 44,07 | 155,89 | 199,96 | 98841,19 | 56620,37 | 31053,22 |
| 460+0.000 | 5,31 | 9,80 | 0,40 | 1,74 | 7,41 | 14,80 | 10,00 | 98,03 | 17,47 | 147,93 | 165,40 | 98939,22 | 56637,84 | 31201,15 |
| 461+0.000 | 9,63 | 14,94 | | 0,40 | 3,01 | 10,42 | 10,00 | 149,40 | 4,05 | 104,08 | 108,13 | 99088,62 | 56641,89 | 31305,23 |
| 462+0.000 | 9,61 | 19,24 | | | 1,99 | 5,00 | 10,00 | 192,41 | | 49,99 | 49,99 | 99281,03 | 56641,89 | 31355,22 |
| 463+0.000 | 11,45 | 21,06 | | | 1,99 | 3,98 | 10,00 | 210,58 | | 39,88 | 39,88 | 99491,61 | 56641,89 | 31395,10 |
| 464+0.000 | 10,99 | 22,44 | | | 2,18 | 4,17 | 10,00 | 224,36 | | 41,74 | 41,74 | 99715,97 | 56641,89 | 31436,84 |
| 465+0.000 | 13,46 | 24,45 | | | 0,75 | 2,93 | 10,00 | 244,49 | | 29,33 | 29,33 | 99960,46 | 56641,89 | 31466,17 |
| 466+0.000 | 17,49 | 30,95 | | | | 0,75 | 10,00 | 309,51 | | 7,54 | 7,54 | 100269,97 | 56641,89 | 31473,71 |
| 467+0.000 | 23,85 | 41,34 | | | | | 10,00 | 413,37 | | | | 100683,34 | 56641,89 | 31473,71 |
| 468+0.000 | 26,94 | 50,79 | | | | | 10,00 | 507,85 | | | | 101191,19 | 56641,89 | 31473,71 |
| 469+0.000 | 24,95 | 51,89 | | | | | 10,00 | 518,87 | | | | 101710,06 | 56641,89 | 31473,71 |
| 470+0.000 | 23,61 | 48,56 | 0,05 | 0,05 | | | 10,00 | 485,63 | 0,54 | | 0,54 | 102195,69 | 56642,43 | 31473,71 |
| 471+0.000 | 23,53 | 47,14 | | 0,05 | | | 10,00 | 471,48 | 0,54 | 0,04 | 0,58 | 102667,17 | 56642,97 | 31473,75 |
| 472+0.000 | 22,40 | 45,93 | | | | | 10,00 | 459,31 | | | | 103126,48 | 56642,97 | 31473,75 |
| 473+0.000 | 26,69 | 49,09 | | | | | 10,00 | 490,84 | | | | 103617,32 | 56642,97 | 31473,75 |
| 474+0.000 | 26,38 | 53,07 | | | | | 10,00 | 530,69 | | | | 104148,01 | 56642,97 | 31473,75 |
| 475+0.000 | 26,59 | 52,97 | | | | | 10,00 | 529,69 | | | | 104677,70 | 56642,97 | 31473,75 |
| 476+0.000 | 26,03 | 52,62 | 0,01 | 0,01 | 0,01 | 0,01 | 10,00 | 526,14 | 0,11 | 0,04 | 0,15 | 105203,84 | 56643,08 | 31473,79 |
| 477+0.000 | 26,00 | 52,03 | | 0,01 | | 0,01 | 10,00 | 520,24 | 0,11 | | 0,11 | 105724,08 | 56643,19 | 31473,79 |
| 478+0.000 | 28,25 | 54,25 | | | | | 10,00 | 542,46 | | | | 106266,54 | 56643,19 | 31473,79 |
| 479+0.000 | 31,08 | 59,33 | | | | | 10,00 | 593,32 | | | | 106859,86 | 56643,19 | 31473,79 |
| 480+0.000 | 28,20 | 59,28 | | | | | 10,00 | 592,84 | | | | 107452,70 | 56643,19 | 31473,79 |
| 481+0.000 | 27,09 | 55,29 | 0,02 | 0,02 | | | 10,00 | 552,90 | 0,22 | 0,02 | 0,24 | 108005,60 | 56643,41 | 31473,81 |
| 482+0.000 | 29,41 | 56,50 | | 0,02 | | | 10,00 | 564,95 | 0,22 | 0,02 | 0,24 | 108570,55 | 56643,63 | 31473,83 |
| 483+0.000 | 24,79 | 54,20 | 0,11 | 0,11 | 0,11 | 0,11 | 10,00 | 541,91 | 1,11 | 1,11 | 2,22 | 109112,46 | 56644,74 | 31474,94 |
| 484+0.000 | 25,93 | 50,72 | | 0,11 | | 0,11 | 10,00 | 507,10 | 1,11 | 1,11 | 2,22 | 109619,56 | 56645,85 | 31476,05 |
| 485+0.000 | 28,68 | 54,61 | | | | | 10,00 | 546,04 | | | | 110165,60 | 56645,85 | 31476,05 |
| 486+0.000 | 32,48 | 61,16 | | | | | 10,00 | 611,63 | | | | 110777,23 | 56645,85 | 31476,05 |
| 487+0.000 | 34,21 | 66,69 | | | | | 10,00 | 666,91 | | | | 111444,14 | 56645,85 | 31476,05 |
| 488+0.000 | 31,87 | 66,08 | | | | | 10,00 | 660,78 | | | | 112104,92 | 56645,85 | 31476,05 |
| 489+0.000 | 36,99 | 68,86 | | | | | 10,00 | 688,60 | | | | 112793,52 | 56645,85 | 31476,05 |
| 490+0.000 | 30,46 | 67,45 | | | | | 10,00 | 674,45 | 0,05 | | 0,05 | 113467,97 | 56645,90 | 31476,05 |
| 491+0.000 | 32,54 | 63,00 | | | | | 10,00 | 630,00 | 0,05 | | 0,05 | 114097,97 | 56645,95 | 31476,05 |
| 492+0.000 | 32,96 | 65,50 | | | | | 10,00 | 655,03 | | | | 114753,00 | 56645,95 | 31476,05 |
| 493+0.000 | 33,48 | 66,44 | | | | | 10,00 | 664,43 | | | | 115417,43 | 56645,95 | 31476,05 |
| 494+0.000 | 37,35 | 70,83 | | | | | 10,00 | 708,37 | | | | 116125,80 | 56645,95 | 31476,05 |
| 495+0.000 | 41,30 | 78,65 | | | | | 10,00 | 786,55 | | | | 116912,35 | 56645,95 | 31476,05 |
| 496+0.000 | 30,69 | 71,99 | 0,12 | 0,12 | 0,12 | 0,12 | 10,00 | 719,89 | 1,25 | 1,21 | 2,46 | 117632,24 | 56647,20 | 31477,26 |
| 497+0.000 | 35,97 | 66,66 | | 0,12 | | 0,12 | 10,00 | 666,56 | 1,25 | 1,21 | 2,46 | 118298,80 | 56648,45 | 31478,47 |
| 498+0.000 | 42,93 | 78,90 | | | | | 10,00 | 788,94 | | | | 119087,74 | 56648,45 | 31478,47 |
| 499+0.000 | 45,44 | 88,37 | | | | | 10,00 | 883,68 | | | | 119971,42 | 56648,45 | 31478,47 |
| 500+0.000 | 47,70 | 93,14 | | | | | 10,00 | 931,43 | 0,05 | 0,04 | 0,09 | 120902,85 | 56648,50 | 31478,51 |
| 501+0.000 | 54,05 | 101,75 | | | | | 10,00 | 1017,48 | 0,05 | 0,04 | 0,09 | 121920,33 | 56648,55 | 31478,55 |
| 502+0.000 | 58,83 | 112,88 | | | | | 10,00 | 1128,75 | | | | 123049,08 | 56648,55 | 31478,55 |
| 503+0.000 | 61,07 | 119,90 | | | | | 10,00 | 1198,97 | 0,05 | 0,01 | 0,06 | 124248,05 | 56648,60 | 31478,56 |
| 504+0.000 | 55,06 | 116,13 | | | | | 10,00 | 1161,32 | 0,05 | 0,01 | 0,06 | 125409,37 | 56648,65 | 31478,57 |
| 505+0.000 | 50,69 | 105,75 | | | | | 10,00 | 1057,57 | | | | 126466,94 | 56648,65 | 31478,57 |
| 506+0.000 | 54,64 | 105,33 | | | | | 10,00 | 1053,33 | | | | 127520,27 | 56648,65 | 31478,57 |
| 507+0.000 | 54,19 | 108,83 | | | | | 10,00 | 1088,31 | | | | 128608,58 | 56648,65 | 31478,57 |
| 508+0.000 | 51,74 | 105,93 | | | | | 10,00 | 1059,28 | | | | 129667,86 | 56648,65 | 31478,57 |
| 509+0.000 | 54,96 | 106,70 | | | | | 10,00 | 1066,96 | | | | 130734,82 | 56648,65 | 31478,57 |
| 510+0.000 | 55,87 | 110,83 | | | | | 10,00 | 1108,34 | | | | 131843,16 | 56648,65 | 31478,57 |

| Cálculo de Volumes | | | | | | | | | | | | | | | |
|--------------------------|-----------------|--------|---------|--------|------------|-------|----------------|---------|---------|---------|---------|-----------|-----------|----------|----------|
| TRECHO: MT-206 | | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. | |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | | |
| 511+0.000 | 57,54 | 113,41 | | | | | 10,00 | 1134,14 | | | | | 132977,30 | 56648,65 | 31478,57 |
| 512+0.000 | 59,49 | 117,03 | | | | | 10,00 | 1170,32 | | | | | 134147,62 | 56648,65 | 31478,57 |
| 513+0.000 | 64,64 | 124,13 | | | | | 10,00 | 1241,32 | | | | | 135388,94 | 56648,65 | 31478,57 |
| 514+0.000 | 69,96 | 134,60 | | | | | 10,00 | 1345,96 | | | | | 136734,90 | 56648,65 | 31478,57 |
| 515+0.000 | 67,23 | 137,19 | | | | | 10,00 | 1371,83 | | | | | 138106,73 | 56648,65 | 31478,57 |
| 516+0.000 | 49,47 | 116,70 | 0,15 | 0,15 | 0,02 | 0,02 | 10,00 | 1167,00 | 1,53 | 1,53 | 3,06 | 139273,73 | 56650,18 | 31480,10 | |
| 517+0.000 | 47,68 | 97,15 | | 0,15 | | 0,02 | 10,00 | 971,50 | 1,53 | 1,53 | 3,06 | 140245,23 | 56651,71 | 31481,63 | |
| 518+0.000 | 44,99 | 92,67 | | | | | 10,00 | 926,66 | | | | 141171,89 | 56651,71 | 31481,63 | |
| 519+0.000 | 41,37 | 86,36 | | | | | 10,00 | 863,63 | | | | 142035,52 | 56651,71 | 31481,63 | |
| 520+0.000 | 35,32 | 76,69 | | | | | 10,00 | 766,92 | | | | 142802,44 | 56651,71 | 31481,63 | |
| 521+0.000 | 30,60 | 65,92 | | | | | 10,00 | 659,21 | | | | 143461,65 | 56651,71 | 31481,63 | |
| 522+0.000 | 24,73 | 55,33 | | | | | 10,00 | 553,30 | | | | 144014,95 | 56651,71 | 31481,63 | |
| 523+0.000 | 22,57 | 47,30 | | | | | 10,00 | 472,98 | | | | 144487,93 | 56651,71 | 31481,63 | |
| 524+0.000 | 21,39 | 43,96 | | | | | 10,00 | 439,57 | | | | 144927,50 | 56651,71 | 31481,63 | |
| 525+0.000 | 8,03 | 29,42 | | | 0,24 | 0,24 | 10,00 | 294,18 | | | | 145221,68 | 56651,71 | 31484,03 | |
| 526+0.000 | | 8,03 | 3,99 | 3,99 | 7,15 | 7,39 | 10,00 | 80,30 | 39,94 | 73,84 | 113,78 | 145301,98 | 56691,65 | 31557,87 | |
| 527+0.000 | | | 13,97 | 17,96 | 7,81 | 14,96 | 10,00 | | 179,63 | 149,55 | 329,18 | 145301,98 | 56871,28 | 31707,42 | |
| 528+0.000 | | | 30,59 | 44,56 | 7,81 | 15,62 | 10,00 | | 445,61 | 156,23 | 601,84 | 145301,98 | 57316,89 | 31863,65 | |
| 529+0.000 | | | 54,81 | 85,40 | 7,81 | 15,62 | 10,00 | | 854,00 | 156,23 | 1010,23 | 145301,98 | 58170,89 | 32019,88 | |
| 530+0.000 | | | 82,49 | 137,30 | 7,82 | 15,63 | 10,00 | | 1373,01 | 156,24 | 1529,25 | 145301,98 | 59543,90 | 32176,12 | |
| 531+0.000 | | | 100,54 | 183,03 | 7,81 | 15,63 | 10,00 | | 1830,36 | 156,24 | 1986,60 | 145301,98 | 61374,26 | 32332,36 | |
| 532+0.000 | | | 110,24 | 210,78 | 7,81 | 15,62 | 10,00 | | 2107,80 | 156,24 | 2264,04 | 145301,98 | 63482,06 | 32488,60 | |
| 533+0.000 | | | 112,29 | 222,53 | 7,81 | 15,62 | 10,00 | | 2225,26 | 156,25 | 2381,51 | 145301,98 | 65707,32 | 32644,85 | |
| 534+0.000 | | | 114,42 | 226,71 | 7,81 | 15,62 | 10,00 | | 2267,08 | 156,25 | 2423,33 | 145301,98 | 67974,40 | 32801,10 | |
| 535+0.000 | | | 89,64 | 204,06 | 7,82 | 15,63 | 10,00 | | 2040,62 | 156,26 | 2196,88 | 145301,98 | 70015,02 | 32957,36 | |
| 536+0.000 | | | 64,02 | 153,66 | 7,81 | 15,63 | 10,00 | | 1536,61 | 156,26 | 1692,87 | 145301,98 | 71551,63 | 33113,62 | |
| 537+0.000 | | | 37,32 | 101,34 | 7,82 | 15,63 | 10,00 | | 1013,41 | 156,26 | 1169,67 | 145301,98 | 72565,04 | 33269,88 | |
| 538+0.000 | | | 23,25 | 60,57 | 7,82 | 15,64 | 10,00 | | 605,78 | 156,26 | 762,04 | 145301,98 | 73170,82 | 33426,14 | |
| 539+0.000 | | | 7,30 | 30,55 | 7,66 | 15,48 | 10,00 | | 305,50 | 154,78 | 460,28 | 145301,98 | 73476,32 | 33580,92 | |
| 540+0.000 | 1,33 | 1,33 | | 7,30 | 2,87 | 10,53 | 10,00 | 13,25 | 72,95 | 105,38 | 178,33 | 145315,23 | 73549,27 | 33686,30 | |
| 541+0.000 | 0,28 | 1,61 | 0,03 | 0,03 | 3,47 | 6,34 | 10,00 | 16,07 | 0,30 | 63,40 | 63,70 | 145331,30 | 73549,57 | 33749,70 | |
| 542+0.000 | 0,33 | 0,61 | 0,38 | 0,41 | 4,66 | 8,13 | 10,00 | 6,14 | 4,10 | 81,23 | 85,33 | 145337,44 | 73553,67 | 33830,93 | |
| 543+0.000 | 1,09 | 1,42 | 0,32 | 0,70 | 3,98 | 8,64 | 10,00 | 14,23 | 6,97 | 86,36 | 93,33 | 145351,67 | 73560,64 | 33917,29 | |
| 544+0.000 | 1,20 | 2,29 | 0,05 | 0,37 | 4,10 | 8,08 | 10,00 | 22,86 | 3,66 | 80,86 | 84,52 | 145374,53 | 73564,30 | 33998,15 | |
| 545+0.000 | 1,75 | 2,95 | | 0,05 | 2,23 | 6,33 | 10,00 | 29,50 | 0,48 | 63,42 | 63,90 | 145404,03 | 73564,78 | 34061,57 | |
| 546+0.000 | 3,59 | 5,34 | | | 0,43 | 2,66 | 10,00 | 53,48 | | 26,62 | 26,62 | 145457,51 | 73564,78 | 34088,19 | |
| 547+0.000 | 10,29 | 13,88 | | | 0,02 | 0,45 | 10,00 | 138,79 | 0,07 | 4,39 | 4,46 | 145596,30 | 73564,85 | 34092,58 | |
| 548+0.000 | 19,02 | 29,31 | | | | 0,02 | 10,00 | 293,05 | 0,07 | 0,12 | 0,19 | 145889,35 | 73564,92 | 34092,70 | |
| 549+0.000 | 17,75 | 36,77 | 0,02 | 0,02 | 0,01 | 0,01 | 10,00 | 367,69 | 0,25 | 0,01 | 0,26 | 146257,04 | 73565,17 | 34092,71 | |
| 550+0.000 | 13,47 | 31,22 | | 0,02 | | 0,01 | 10,00 | 312,17 | 0,25 | 0,10 | 0,35 | 146569,21 | 73565,42 | 34092,81 | |
| 551+0.000 | 9,74 | 23,21 | | | | | 10,00 | 232,11 | | 0,09 | 0,09 | 146801,32 | 73565,42 | 34092,90 | |
| 552+0.000 | 8,48 | 18,22 | | | 0,02 | 0,02 | 10,00 | 182,22 | 0,07 | 0,14 | 0,21 | 146983,54 | 73565,49 | 34093,04 | |
| 553+0.000 | 8,35 | 16,83 | | | | 0,02 | 10,00 | 168,33 | 0,07 | 0,14 | 0,21 | 147151,87 | 73565,56 | 34093,18 | |
| 554+0.000 | 10,23 | 18,58 | 0,06 | 0,06 | 0,06 | 0,06 | 10,00 | 185,84 | 0,61 | 0,55 | 1,16 | 147337,71 | 73566,17 | 34093,73 | |
| 555+0.000 | 14,52 | 24,75 | | 0,06 | | 0,06 | 10,00 | 247,50 | 0,61 | 0,55 | 1,16 | 147585,21 | 73566,78 | 34094,28 | |
| 556+0.000 | 14,49 | 29,01 | | | | | 10,00 | 290,12 | | | | 147875,33 | 73566,78 | 34094,28 | |
| 557+0.000 | 10,87 | 25,36 | | | | | 10,00 | 253,59 | 0,08 | | 0,08 | 148128,92 | 73566,86 | 34094,28 | |
| 558+0.000 | 11,75 | 22,62 | | | | | 10,00 | 226,16 | 0,08 | | 0,08 | 148355,08 | 73566,94 | 34094,28 | |
| 559+0.000 | 9,32 | 21,07 | | | | | 10,00 | 210,68 | | | | 148565,76 | 73566,94 | 34094,28 | |
| 560+0.000 | 6,56 | 15,88 | 0,06 | 0,06 | | | 10,00 | 158,79 | 0,61 | | 0,61 | 148724,55 | 73567,55 | 34094,28 | |
| 561+0.000 | 6,55 | 13,11 | | 0,06 | | | 10,00 | 131,06 | 0,61 | 0,02 | 0,63 | 148855,61 | 73568,16 | 34094,30 | |
| 562+0.000 | 5,91 | 12,46 | | | | | 10,00 | 124,59 | | 0,07 | 0,07 | 148980,20 | 73568,16 | 34094,37 | |
| 563+0.000 | 6,42 | 12,33 | | | | | 10,00 | 123,35 | | 0,05 | 0,05 | 149103,55 | 73568,16 | 34094,42 | |
| 564+0.000 | 5,39 | 11,81 | | | | | 10,00 | 118,14 | | 0,05 | 0,05 | 149221,69 | 73568,16 | 34094,47 | |
| 565+0.000 | 11,12 | 16,51 | | | 0,06 | 0,06 | 10,00 | 165,11 | | 0,52 | 0,52 | 149386,80 | 73568,16 | 34094,99 | |
| 566+0.000 | 11,07 | 22,19 | | | | 0,06 | 10,00 | 221,86 | | 0,52 | 0,52 | 149608,66 | 73568,16 | 34095,51 | |
| 567+0.000 | 11,32 | 22,39 | | | | | 10,00 | 223,84 | | 0,05 | 0,05 | 149832,50 | 73568,16 | 34095,56 | |
| 568+0.000 | 6,00 | 17,32 | | | | | 10,00 | 173,16 | | 0,05 | 0,05 | 150005,66 | 73568,16 | 34095,61 | |
| 569+0.000 | 4,86 | 10,86 | 0,01 | 0,01 | | | 10,00 | 108,60 | | 0,13 | 0,13 | 150114,26 | 73568,16 | 34095,74 | |
| 570+0.000 | 4,12 | 8,98 | | 0,01 | | | 10,00 | 89,80 | | 0,10 | 0,10 | 150204,06 | 73568,16 | 34095,84 | |
| 571+0.000 | 3,68 | 7,80 | | | 0,02 | 0,02 | 10,00 | 77,95 | | 0,21 | 0,21 | 150282,01 | 73568,16 | 34096,05 | |
| 572+0.000 | 5,11 | 8,79 | | | | 0,02 | 10,00 | 87,87 | | 0,19 | 0,19 | 150369,88 | 73568,16 | 34096,24 | |
| 573+0.000 | 4,47 | 9,58 | | | | | 10,00 | 95,82 | | 0,02 | 0,02 | 150465,70 | 73568,16 | 34096,26 | |
| 574+0.000 | 7,26 | 11,73 | | | | | 10,00 | 117,34 | | | | 150583,04 | 73568,16 | 34096,26 | |
| 575+0.000 | 6,18 | 13,44 | | | | | 10,00 | 134,39 | | | | 150717,43 | 73568,16 | 34096,26 | |
| 576+0.000 | 6,83 | 13,01 | | | | | 10,00 | 130,04 | | | | 150847,47 | 73568,16 | 34096,26 | |
| 577+0.000 | 6,70 | 13,53 | | | | | 10,00 | 135,31 | | | | 150982,78 | 73568,16 | 34096,26 | |
| 578+0.000 | 7,53 | 14,23 | | | | | 10,00 | 142,39 | | | | 151125,17 | 73568,16 | 34096,26 | |
| 579+0.000 | 8,64 | 16,17 | | | | | 10,00 | 161,76 | | 0,03 | 0,03 | 151286,93 | 73568,16 | 34096,29 | |

| Cálculo de Volumes | | | | | | | | | | | | | | |
|--------------------------|-----------------|-------|---------|-------|------------|-------|----------------|---------|--------|---------|--------|-----------|----------|----------|
| TRECHO: MT-206 | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | Acumulado | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. |
| MT-206 (PISTA PRINCIPAL) | | | | | | | | | | | | | | |
| 580+0.000 | 7,88 | 16,52 | | | | | 10,00 | 165,23 | | 0,03 | 0,03 | 151452,16 | 73568,16 | 34096,32 |
| 581+0.000 | 9,71 | 17,59 | | | | | 10,00 | 175,90 | | 0,08 | 0,08 | 151628,06 | 73568,16 | 34096,40 |
| 582+0.000 | 8,64 | 18,35 | | | | | 10,00 | 183,44 | | 0,08 | 0,08 | 151811,50 | 73568,16 | 34096,48 |
| 583+0.000 | 10,46 | 19,10 | | | | | 10,00 | 190,94 | | | | 152002,44 | 73568,16 | 34096,48 |
| 584+0.000 | 8,86 | 19,32 | | | | | 10,00 | 193,22 | | | | 152195,66 | 73568,16 | 34096,48 |
| 585+0.000 | 10,37 | 19,23 | | | | | 10,00 | 192,29 | | | | 152387,95 | 73568,16 | 34096,48 |
| 586+0.000 | 9,33 | 19,70 | | | | | 10,00 | 196,94 | | | | 152584,89 | 73568,16 | 34096,48 |
| 587+0.000 | 9,29 | 18,62 | | | | | 10,00 | 186,24 | | | | 152771,13 | 73568,16 | 34096,48 |
| 588+0.000 | 7,15 | 16,44 | | | 0,02 | 0,02 | 10,00 | 164,44 | | 0,21 | 0,21 | 152935,57 | 73568,16 | 34096,69 |
| 589+0.000 | 4,75 | 11,90 | 0,01 | 0,01 | 0,03 | 0,05 | 10,00 | 118,96 | 0,15 | 0,48 | 0,63 | 153054,53 | 73568,31 | 34097,17 |
| 590+0.000 | 5,84 | 10,59 | 0,01 | 0,02 | 0,02 | 0,05 | 10,00 | 105,88 | 0,28 | 0,47 | 0,75 | 153160,41 | 73568,59 | 34097,64 |
| 591+0.000 | 4,74 | 10,58 | | 0,01 | | 0,02 | 10,00 | 105,80 | 0,14 | 0,20 | 0,34 | 153266,21 | 73568,73 | 34097,84 |
| 592+0.000 | 5,56 | 10,30 | | | 0,02 | 0,02 | 10,00 | 102,99 | | 0,22 | 0,22 | 153369,20 | 73568,73 | 34098,06 |
| 593+0.000 | 4,05 | 9,61 | | | | 0,02 | 10,00 | 96,13 | | 0,23 | 0,23 | 153465,33 | 73568,73 | 34098,29 |
| 594+0.000 | 4,52 | 8,57 | | | 0,04 | 0,04 | 10,00 | 85,75 | | 0,40 | 0,40 | 153551,08 | 73568,73 | 34098,69 |
| 595+0.000 | 4,64 | 9,16 | | | | 0,04 | 10,00 | 91,63 | | 0,38 | 0,38 | 153642,71 | 73568,73 | 34099,07 |
| 596+0.000 | 4,43 | 9,07 | | | 0,04 | 0,04 | 10,00 | 90,74 | | 0,36 | 0,36 | 153733,45 | 73568,73 | 34099,43 |
| 597+0.000 | 11,73 | 16,16 | | | | 0,04 | 10,00 | 161,65 | | 0,38 | 0,38 | 153895,10 | 73568,73 | 34099,81 |
| 598+0.000 | | 11,73 | 0,08 | 0,08 | 0,08 | 0,08 | 10,00 | 117,32 | | 0,77 | 0,77 | 154012,42 | 73568,73 | 34100,58 |
| 599+0.000 | | | 0,11 | 0,19 | 0,11 | 0,19 | 10,00 | | | 1,90 | 1,90 | 154012,42 | 73568,73 | 34102,48 |
| 600+0.000 | | | | 0,11 | | 0,11 | 10,00 | | | 1,11 | 1,11 | 154012,42 | 73568,73 | 34103,59 |
| 600+3.576 | | | | | | | 1,79 | | | | | 154012,42 | 73568,73 | 34103,59 |
| 601+0.000 | | | | | | | 8,21 | | | | | 154012,42 | 73568,73 | 34103,59 |
| 602+0.000 | | | 0,44 | 0,44 | 0,44 | 0,44 | 10,00 | | 4,42 | 4,42 | 8,84 | 154012,42 | 73573,15 | 34108,01 |
| 603+0.000 | 26,05 | 26,05 | | 0,44 | 0,99 | 1,43 | 10,00 | 260,51 | 4,42 | 5,49 | 9,91 | 154272,93 | 73577,57 | 34113,50 |
| 604+0.000 | 4,38 | 30,43 | | | 0,17 | 1,16 | 10,00 | 304,30 | | 11,59 | 11,59 | 154577,23 | 73577,57 | 34125,09 |
| 605+0.000 | 6,68 | 11,06 | | | | 0,17 | 10,00 | 110,64 | | 1,68 | 1,68 | 154687,87 | 73577,57 | 34126,77 |
| 606+0.000 | 10,82 | 17,50 | | | | | 10,00 | 175,04 | | | | 154862,91 | 73577,57 | 34126,77 |
| 607+0.000 | 5,01 | 15,83 | 0,06 | 0,06 | 0,16 | 0,16 | 10,00 | 158,29 | 0,56 | 1,62 | 2,18 | 155021,20 | 73578,13 | 34128,39 |
| 608+0.000 | 2,13 | 7,14 | | 0,06 | 0,15 | 0,31 | 10,00 | 71,36 | 0,56 | 3,14 | 3,70 | 155092,56 | 73578,69 | 34131,53 |
| 609+0.000 | 4,83 | 6,96 | | | 0,03 | 0,18 | 10,00 | 69,52 | 0,03 | 1,80 | 1,83 | 155162,08 | 73578,72 | 34133,33 |
| 610+0.000 | 7,93 | 12,76 | | | | 0,03 | 10,00 | 127,62 | 0,03 | 0,27 | 0,30 | 155289,70 | 73578,75 | 34133,60 |
| 611+0.000 | 5,76 | 13,69 | | | | | 10,00 | 136,91 | | | | 155426,61 | 73578,75 | 34133,60 |
| 612+0.000 | 1,55 | 7,31 | | | 0,22 | 0,22 | 10,00 | 73,08 | | 2,17 | 2,17 | 155499,69 | 73578,75 | 34135,77 |
| 613+0.000 | 2,25 | 3,80 | 0,02 | 0,02 | 0,24 | 0,46 | 10,00 | 38,00 | 0,21 | 4,52 | 4,73 | 155537,69 | 73578,96 | 34140,29 |
| 614+0.000 | 0,98 | 3,23 | | 0,02 | 3,54 | 3,78 | 10,00 | 32,26 | 0,21 | 37,72 | 37,93 | 155569,95 | 73579,17 | 34178,01 |
| 615+0.000 | 0,02 | 1,00 | 4,53 | 4,53 | 7,77 | 11,31 | 10,00 | 9,95 | 45,31 | 113,06 | 158,37 | 155579,90 | 73624,48 | 34291,07 |
| 616+0.000 | | 0,02 | 12,75 | 17,28 | 7,83 | 15,60 | 10,00 | 0,18 | 172,80 | 155,98 | 328,78 | 155580,08 | 73797,28 | 34447,05 |
| 617+0.000 | 0,07 | 0,07 | 13,93 | 26,68 | 7,83 | 15,66 | 10,00 | 0,65 | 266,82 | 156,57 | 423,39 | 155580,73 | 74064,10 | 34603,62 |
| 618+0.000 | | 0,07 | 20,07 | 34,00 | 7,83 | 15,66 | 10,00 | 0,67 | 340,04 | 156,58 | 496,62 | 155581,40 | 74404,14 | 34760,20 |
| 619+0.000 | | | 22,58 | 42,65 | 7,83 | 15,66 | 10,00 | 0,02 | 426,50 | 156,58 | 583,08 | 155581,42 | 74830,64 | 34916,78 |
| 620+0.000 | 0,06 | 0,06 | 23,79 | 46,37 | 7,83 | 15,66 | 10,00 | 0,55 | 463,66 | 156,58 | 620,24 | 155581,97 | 75294,30 | 35073,36 |
| 621+0.000 | 0,52 | 0,58 | 20,10 | 43,89 | 7,83 | 15,66 | 10,00 | 5,79 | 438,89 | 156,58 | 595,47 | 155587,76 | 75733,19 | 35229,94 |
| 622+0.000 | 1,24 | 1,76 | 12,63 | 32,73 | 7,83 | 15,66 | 10,00 | 17,63 | 327,31 | 156,59 | 483,90 | 155605,39 | 76060,50 | 35386,53 |
| 623+0.000 | 1,64 | 2,88 | 5,96 | 18,59 | 7,51 | 15,34 | 10,00 | 28,74 | 185,90 | 153,35 | 339,25 | 155634,13 | 76246,40 | 35539,88 |
| 624+0.000 | 2,75 | 4,39 | | 5,96 | 3,48 | 10,99 | 10,00 | 43,90 | 59,61 | 109,82 | 169,43 | 155678,03 | 76306,01 | 35649,70 |
| 625+0.000 | 4,48 | 7,23 | 0,02 | 0,02 | | 3,48 | 10,00 | 72,39 | 0,20 | 34,67 | 34,87 | 155750,42 | 76306,21 | 35684,37 |
| 626+0.000 | 6,99 | 11,47 | | 0,02 | | | 10,00 | 114,77 | 0,20 | | 0,20 | 155865,19 | 76306,41 | 35684,37 |
| 627+0.000 | 10,92 | 17,91 | 0,03 | 0,03 | 0,02 | 0,02 | 10,00 | 179,16 | 0,27 | | 0,27 | 156044,35 | 76306,68 | 35684,37 |
| 628+0.000 | 12,91 | 23,83 | | 0,03 | | 0,02 | 10,00 | 238,33 | 0,30 | 0,16 | 0,46 | 156282,68 | 76306,98 | 35684,53 |
| 629+0.000 | 12,83 | 25,74 | | | | | 10,00 | 257,42 | | 0,03 | 0,03 | 156540,10 | 76306,98 | 35684,56 |
| 630+0.000 | 14,51 | 27,34 | | | | | 10,00 | 273,44 | | 0,01 | 0,01 | 156813,54 | 76306,98 | 35684,57 |
| 631+0.000 | 15,92 | 30,43 | | | | | 10,00 | 304,37 | 0,01 | | 0,01 | 157117,91 | 76306,99 | 35684,57 |
| 632+0.000 | 15,64 | 31,56 | | | | | 10,00 | 315,69 | 0,01 | | 0,01 | 157433,60 | 76307,00 | 35684,57 |
| 633+0.000 | 13,29 | 28,93 | | | | | 10,00 | 289,31 | | | | 157722,91 | 76307,00 | 35684,57 |
| 634+0.000 | 10,35 | 23,64 | | | | | 10,00 | 236,37 | | | | 157959,28 | 76307,00 | 35684,57 |
| 635+0.000 | 4,16 | 14,51 | | | 0,20 | 0,20 | 10,00 | 145,14 | | 2,03 | 2,03 | 158104,42 | 76307,00 | 35686,60 |
| 636+0.000 | 2,05 | 6,21 | | | 3,02 | 3,22 | 10,00 | 62,18 | | 32,22 | 32,22 | 158166,60 | 76307,00 | 35718,82 |
| 637+0.000 | 0,60 | 2,65 | 1,32 | 1,32 | 6,65 | 9,67 | 10,00 | 26,53 | 13,20 | 96,69 | 109,89 | 158193,13 | 76320,20 | 35815,51 |
| 638+0.000 | 0,41 | 1,01 | 6,14 | 7,46 | 7,46 | 14,11 | 10,00 | 10,13 | 74,60 | 141,15 | 215,75 | 158203,26 | 76394,80 | 35956,66 |
| 639+0.000 | 0,26 | 0,67 | 9,29 | 15,43 | 7,50 | 14,96 | 10,00 | 6,71 | 154,30 | 149,66 | 303,96 | 158209,97 | 76549,10 | 36106,32 |
| 640+0.000 | 0,19 | 0,45 | 17,59 | 26,88 | 7,83 | 15,33 | 10,00 | 4,45 | 268,82 | 153,34 | 422,16 | 158214,42 | 76817,92 | 36259,66 |
| 641+0.000 | 0,03 | 0,22 | 26,63 | 44,22 | 7,83 | 15,66 | 10,00 | 2,22 | 442,23 | 156,66 | 598,89 | 158216,64 | 77260,15 | 36416,32 |
| 642+0.000 | | 0,03 | 29,21 | 55,84 | 7,84 | 15,67 | 10,00 | 0,35 | 558,44 | 156,67 | 715,11 | 158216,99 | 77818,59 | 36572,99 |
| 643+0.000 | | | 29,86 | 59,07 | 7,84 | 15,68 | 10,00 | | 590,75 | 156,68 | 747,43 | 158216,99 | 78409,34 | 36729,67 |
| 644+0.000 | | | 20,63 | 50,49 | 7,83 | 15,67 | 10,00 | | 504,92 | 156,68 | 661,60 | 158216,99 | 78914,26 | 36886,35 |
| 645+0.000 | | | 15,10 | 35,73 | 7,84 | 15,67 | 10,00 | | 357,31 | 156,69 | 514,00 | 158216,99 | 79271,57 | 37043,04 |
| 646+0.000 | | | 7,42 | 22,52 | 7,78 | 15,62 | 10,00 | | 225,20 | 156,20 | 381,40 | 158216,99 | 79496,77 | 37199,24 |

| Cálculo de Volumes | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------|-------|---------|-------|------------|-------|----------------|---------|--------|---------|--------|---------|-----------|---------|--------|-------|--|--|
| TRECHO: MT-206 - Rotatória 01 | | | | | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | | Acumulado | | | | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. | | | | |
| | | | | | | | | | | | | | | | | | | |
| ROTATÓRIA 01 | | | | | | | | | | | | | | | | | | |
| 0+0.00 | | | 18,25 | | 7,07 | | | | | | | | | | | | | |
| 0+10.000 | | | 4,72 | 22,97 | 7,14 | 14,21 | | | | 145,44 | 87,96 | 233,40 | | 145,44 | | 87,96 | | |
| 1+0.000 | 0,71 | 0,71 | 2,42 | 7,14 | 3,79 | 10,93 | 5,00 | 5,13 | 5,13 | 35,73 | 66,41 | 102,14 | 5,13 | 181,17 | 154,37 | | | |
| 1+10.000 | | 0,71 | 0,05 | 2,47 | 7,57 | 11,36 | 5,00 | 5,13 | 5,13 | 12,09 | 69,91 | 82,00 | 10,26 | 193,26 | 224,28 | | | |
| 2+0.000 | 10,83 | 10,83 | | 0,05 | | 7,57 | 5,00 | 70,91 | 0,23 | 48,82 | 49,05 | | 81,17 | 193,49 | 273,10 | | | |
| 2+10.000 | 22,44 | 33,27 | | | | | 5,00 | 217,90 | | | | | 299,07 | 193,49 | 273,10 | | | |
| 3+0.000 | 30,44 | 52,88 | | | | | 5,00 | 349,17 | | | | | 648,24 | 193,49 | 273,10 | | | |
| 3+1.141 | 30,99 | 61,43 | | | | | 0,57 | 46,59 | | | | | 694,83 | 193,49 | 273,10 | | | |
| 3+10.000 | 30,72 | 61,71 | | | | | 4,43 | 367,70 | | | | | 1062,53 | 193,49 | 273,10 | | | |
| 4+0.000 | 11,39 | 42,11 | | | | | 5,00 | 287,32 | | | | | 1349,85 | 193,49 | 273,10 | | | |
| 4+10.000 | 16,00 | 27,39 | | | 0,05 | 0,05 | 5,00 | 192,99 | | | 0,23 | 0,23 | 1542,84 | 193,49 | 273,33 | | | |
| 5+0.000 | 8,65 | 24,65 | | | 0,02 | 0,07 | 5,00 | 174,70 | | | 0,33 | 0,33 | 1717,54 | 193,49 | 273,66 | | | |
| 5+10.000 | 0,75 | 9,40 | 0,96 | 0,96 | 2,86 | 2,88 | 5,00 | 65,72 | 4,56 | 15,13 | 19,69 | 1783,26 | 198,05 | 288,79 | | | | |
| 6+0.000 | | 0,75 | 16,01 | 16,97 | 7,20 | 10,06 | 5,00 | 5,81 | 111,43 | 58,77 | 170,20 | 1789,07 | 309,48 | 347,56 | | | | |
| 6+2.283 | | | 18,00 | 34,01 | 7,08 | 14,28 | 1,14 | | 51,79 | 19,73 | 71,52 | 1789,07 | 361,27 | 367,29 | | | | |
| VOLUME CORTE 1ª CATEGORIA =1789,07 m³ | | | | | | | | | | | | | | | | | | |
| VOLUME CORPO DE ATERRO =361,27 m³ | | | | | | | | | | | | | | | | | | |
| VOLUME ACABAMENTO =367,29 m³ | | | | | | | | | | | | | | | | | | |
| VOLUME DE ATERRO =728,56 m³ | | | | | | | | | | | | | | | | | | |

| Cálculo de Volumes | | | | | | | | | | | | | | | | |
|--------------------------------------|-----------------|-------|---------|-------|------------|------|----------------|---------|-------|---------|-----------|---------|--------|---------|--------|--|
| TRECHO: MT-206 - Rotatória 02 | | | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | Acumulado | | | | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. | | |
| | | | | | | | | | | | | | | | | |
| ROTATÓRIA 02 | | | | | | | | | | | | | | | | |
| 0+0.000 | | | | 3,01 | | | | | | | | | | | | |
| 0+10.000 | 5,50 | 5,50 | | 0,05 | 3,06 | 1,91 | 11,52 | | 15,87 | 40,75 | 69,17 | 85,04 | 40,75 | 15,87 | 69,17 | |
| 1+0.000 | 6,50 | 12,00 | | | 0,05 | 0,94 | 2,85 | 5,00 | 0,21 | 87,65 | 14,41 | 14,62 | 128,40 | 16,08 | 83,58 | |
| 1+10.000 | 1,83 | 8,33 | | | | 1,18 | 2,12 | 5,00 | | 60,69 | 10,77 | 10,77 | 189,09 | 16,08 | 94,35 | |
| 2+0.000 | 0,10 | 1,93 | | | | 2,20 | 3,38 | 5,00 | | 14,61 | 18,28 | 18,28 | 203,70 | 16,08 | 112,63 | |
| 2+10.000 | 0,14 | 0,24 | | | | 1,59 | 3,79 | 5,00 | | 1,89 | 20,60 | 20,60 | 205,59 | 16,08 | 133,23 | |
| 3+0.000 | 0,37 | 0,51 | | | | 1,95 | 3,54 | 5,00 | | 3,95 | 19,13 | 19,13 | 209,54 | 16,08 | 152,36 | |
| 3+2.797 | 0,40 | 0,77 | | | | 2,23 | 4,18 | 1,40 | | 1,68 | 6,43 | 6,43 | 211,22 | 16,08 | 158,79 | |
| 3+10.000 | | 0,40 | | 0,08 | 0,08 | 5,48 | 7,71 | 3,60 | 0,26 | 2,26 | 32,33 | 32,59 | 213,48 | 16,34 | 191,12 | |
| 4+0.000 | | | | 9,31 | 9,31 | 8,24 | 13,72 | 5,00 | 55,84 | | 84,75 | 140,59 | 213,48 | 72,18 | 275,87 | |
| 4+10.000 | 2,29 | 2,29 | | | 9,31 | 0,19 | 8,43 | 5,00 | 55,48 | 16,40 | 53,08 | 108,56 | 229,88 | 127,66 | 328,95 | |
| 5+0.000 | 4,36 | 6,65 | | | | | 0,19 | 5,00 | | 47,29 | 0,91 | 0,91 | 277,17 | 127,66 | 329,86 | |
| 5+10.000 | 3,30 | 7,66 | | | | 0,21 | 0,21 | 5,00 | | 54,51 | 1,02 | 1,02 | 331,68 | 127,66 | 330,88 | |
| 6+0.000 | | 3,30 | | 11,58 | 11,58 | 8,43 | 8,64 | 5,00 | 66,55 | 23,62 | 54,75 | 121,30 | 355,30 | 194,21 | 385,63 | |
| 6+5.594 | | 3,30 | | 4,72 | 16,30 | 8,04 | 16,47 | 2,80 | 51,40 | | 58,38 | 109,78 | 355,30 | 245,61 | 444,01 | |
| | | | | | | | | | | | | | | | | |
| VOLUME CORTE 1ª CATEGORIA =355,30 m³ | | | | | | | | | | | | | | | | |
| VOLUME CORPO DE ATERRO =245,61 m³ | | | | | | | | | | | | | | | | |
| VOLUME ACABAMENTO =444,01 m³ | | | | | | | | | | | | | | | | |
| VOLUME DE ATERRO =689,62 m³ | | | | | | | | | | | | | | | | |

| Cálculo de Volumes | | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------|-------|---------|------|------------|-------|----------------|---------|-------|---------|--------|---------|-----------|---------|-------|--------|
| TRECHO: MT-206 - Rotatória 03 | | | | | | | | | | | | | | | | |
| Estaca | Áreas | | | | | | Semi-distância | Volumes | | | | | | | | |
| | Corte - 1ª Cat. | | Corpo | | Acabamento | | | Parcial | | | | | Acumulado | | | |
| | Parcial | Soma | Parcial | Soma | Parcial | Soma | | 1ª Cat. | Corpo | Acabam. | Aterro | 1ª Cat. | Corpo | Acabam. | | |
| | | | | | | | | | | | | | | | | |
| ROTATÓRIA 03 | | | | | | | | | | | | | | | | |
| 0+0.000 | 0,16 | 0,16 | 0,25 | | 4,10 | | | | | | | | | | | |
| 0+10.000 | 10,93 | 11,09 | | 0,25 | | 4,10 | | | | 69,67 | 1,17 | 22,57 | 23,74 | 69,67 | 1,17 | 22,57 |
| 1+0.000 | 5,62 | 16,55 | | | | | 5,00 | 103,28 | | | | | | 172,95 | 1,17 | 22,57 |
| 1+10.000 | | 5,62 | | | 3,00 | 3,00 | 5,00 | 34,76 | | 17,98 | | 17,98 | 17,98 | 207,71 | 1,17 | 40,55 |
| 2+0.000 | | | 2,33 | 2,33 | 8,34 | 11,34 | 5,00 | | 14,70 | 68,70 | 83,40 | 207,71 | 83,40 | 207,71 | 15,87 | 109,25 |
| 2+10.000 | | | | 2,33 | 2,13 | 10,47 | 5,00 | | 14,70 | 62,94 | 77,64 | 207,71 | 77,64 | 207,71 | 30,57 | 172,19 |
| 3+0.000 | 3,38 | 3,38 | | | | 2,13 | 5,00 | 20,49 | | 12,22 | 12,22 | 228,20 | 12,22 | 228,20 | 30,57 | 184,41 |
| 3+10.000 | 3,70 | 7,08 | | | | | 5,00 | 44,04 | | | | 272,24 | | 272,24 | 30,57 | 184,41 |
| 3+18.325 | 1,02 | 4,72 | | | 0,20 | 0,20 | 4,16 | 25,06 | | 0,82 | 0,82 | 297,30 | 0,82 | 297,30 | 30,57 | 185,23 |
| 4+0.000 | | 1,02 | | | 2,18 | 2,38 | 0,84 | 1,10 | | 2,30 | 2,30 | 298,40 | 2,30 | 298,40 | 30,57 | 187,53 |
| 4+10.000 | 2,35 | 2,35 | | | 0,58 | 2,76 | 5,00 | 16,06 | | 15,68 | 15,68 | 314,46 | 15,68 | 314,46 | 30,57 | 203,21 |
| 5+0.000 | 8,43 | 10,78 | | | | 0,58 | 5,00 | 68,50 | | 2,93 | 2,93 | 382,96 | 2,93 | 382,96 | 30,57 | 206,14 |
| 5+10.000 | 11,03 | 19,46 | | | | | 5,00 | 121,72 | | | | 504,68 | | 504,68 | 30,57 | 206,14 |
| 6+0.000 | 15,54 | 26,57 | | | | | 5,00 | 167,87 | | | | 672,55 | | 672,55 | 30,57 | 206,14 |
| 6+10.000 | 17,10 | 32,64 | | | | | 5,00 | 207,71 | | | | 880,26 | | 880,26 | 30,57 | 206,14 |
| 7+0.000 | 20,41 | 37,51 | | | | | 5,00 | 238,97 | | | | 1119,23 | | 1119,23 | 30,57 | 206,14 |
| 7+10.000 | 10,68 | 31,09 | | | 0,15 | 0,15 | 5,00 | 201,17 | | 0,73 | 0,73 | 1320,40 | 0,73 | 1320,40 | 30,57 | 206,87 |
| 7+16.649 | 0,11 | 10,79 | 0,22 | 0,22 | 4,32 | 4,47 | 3,32 | 47,98 | 0,69 | 16,40 | 17,09 | 1368,38 | 17,09 | 1368,38 | 31,26 | 223,27 |
| VOLUME CORTE 1ª CATEGORIA =1368,38 m³ | | | | | | | | | | | | | | | | |
| VOLUME CORPO DE ATERRO =31,26 m³ | | | | | | | | | | | | | | | | |
| VOLUME ACABAMENTO =223,27 m³ | | | | | | | | | | | | | | | | |
| VOLUME DE ATERRO =254,53 m³ | | | | | | | | | | | | | | | | |

8. TERMO DE ENCERRAMENTO

O presente volume corresponde ao VOLUME ANEXO 3C – NOTAS DE SERVIÇO E CÁLCULO DE VOLUMES, referente ao Projeto Executivo de Engenharia Rodoviária Para Implantação e Pavimentação do Trecho: Entrº MT-206 (Paranaíta) - Acesso Ao Assentamento São Pedro, com extensão total de 14,05 km, e possui 65 (Sessenta e cinco) folhas numericamente ordenadas.