



Prefeitura Municipal de Caracará

**Rodovia:** Vicinal 31 CAI-331 (Vila Barauana)  
**Trecho:** Entronc. BR-432 (Km 0,00) x Vicinal 31 (Km 26,50)  
**Serviço:** Recuperação, Terraplenagem e Construção de P.E.C.  
**Extensão:** 26,50 Km  
**Município:** Caracará

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
| 0                               | 0,510       | 0,510             |                    |                     |                   |               |
|                                 |             |                   | 10,000             | 9,940               | 9,940             | 11,928        |
| 1                               | 0,484       | 0,994             |                    |                     |                   | -             |
|                                 |             | -                 | 10,000             | 9,630               | 19,570            | 23,484        |
| 2                               | 0,479       | 1,473             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,890               | 29,460            | 35,352        |
| 3                               | 0,510       | 1,983             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,100              | 39,560            | 47,472        |
| 4                               | 0,500       | 2,483             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,210              | 49,770            | 59,724        |
| 5                               | 0,521       | 3,004             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,900               | 59,670            | 71,604        |
| 6                               | 0,469       | 3,473             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,220               | 68,890            | 82,668        |
| 7                               | 0,453       | 3,926             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,110               | 78,000            | 93,600        |
| 8                               | 0,458       | 4,384             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,530               | 87,530            | 105,036       |
| 9                               | 0,495       | 4,879             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,330               | 96,860            | 116,232       |
| 10                              | 0,438       | 5,317             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,550               | 105,410           | 126,492       |
| 11                              | 0,417       | 5,734             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,340               | 113,750           | 136,500       |
| 12                              | 0,417       | 6,151             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,650               | 122,400           | 146,880       |
| 13                              | 0,448       | 6,599             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,480               | 131,880           | 158,256       |
| 14                              | 0,500       | 7,099             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,640               | 141,520           | 169,824       |
| 15                              | 0,464       | 7,563             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,120               | 150,640           | 180,768       |
| 16                              | 0,448       | 8,011             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,120               | 159,760           | 191,712       |
| 17                              | 0,464       | 8,475             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,640               | 169,400           | 203,280       |
| 18                              | 0,500       | 8,975             |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,380               | 178,780           | 214,536       |
| 19                              | 0,438       | 9,413             |                    | -                   | -                 | -             |

Endereço: Praça do Centro Cívico, S/N - Centro - CEP 69.360-000.

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 8,340       | 187,120           | 224,544             |
| 20                              | 0,396       | 9,809             |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,820       | 194,940           | 233,928             |
| 21                              | 0,386       | 10,195            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,820       | 202,760           | 243,312             |
| 22                              | 0,396       | 10,591            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,390       | 211,150           | 253,380             |
| 23                              | 0,443       | 11,034            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,530       | 220,680           | 264,816             |
| 24                              | 0,510       | 11,544            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,720      | 231,400           | 277,680             |
| 25                              | 0,562       | 12,106            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,400      | 242,800           | 291,360             |
| 26                              | 0,578       | 12,684            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,350      | 254,150           | 304,980             |
| 27                              | 0,557       | 13,241            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,520      | 264,670           | 317,604             |
| 28                              | 0,495       | 13,736            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 275,140           | 330,168             |
| 29                              | 0,552       | 14,288            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,250      | 286,390           | 343,668             |
| 30                              | 0,573       | 14,861            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,250      | 297,640           | 357,168             |
| 31                              | 0,552       | 15,413            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 308,110           | 369,732             |
| 32                              | 0,495       | 15,908            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,940      | 319,050           | 382,860             |
| 33                              | 0,599       | 16,507            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,610      | 331,660           | 397,992             |
| 34                              | 0,662       | 17,169            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,510      | 345,170           | 414,204             |
| 35                              | 0,689       | 17,858            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,670      | 358,840           | 430,608             |
| 36                              | 0,678       | 18,536            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,030      | 371,870           | 446,244             |
| 37                              | 0,625       | 19,161            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,610      | 383,480           | 460,176             |
| 38                              | 0,536       | 19,697            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,670      | 395,150           | 474,180             |
| 39                              | 0,631       | 20,328            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,140      | 408,290           | 489,948             |
| 40                              | 0,683       | 21,011            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,820      | 422,110           | 506,532             |
| 41                              | 0,699       | 21,710            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,770      | 435,880           | 523,056             |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 42                              | 0,678       | 22,388            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,930      | 448,810           | 538,572             |
| 43                              | 0,615       | 23,003            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,310      | 460,120           | 552,144             |
| 44                              | 0,516       | 23,519            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,940      | 471,060           | 565,272             |
| 45                              | 0,578       | 24,097            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,770      | 482,830           | 579,396             |
| 46                              | 0,599       | 24,696            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,820      | 494,650           | 593,580             |
| 47                              | 0,583       | 25,279            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,140      | 505,790           | 606,948             |
| 48                              | 0,531       | 25,810            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,730      | 516,520           | 619,824             |
| 49                              | 0,542       | 26,352            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,730      | 529,250           | 635,100             |
| 50                              | 0,731       | 27,083            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 18,320      | 547,570           | 657,084             |
| 51                              | 1,101       | 28,184            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,070      | 575,640           | 690,768             |
| 52                              | 1,706       | 29,890            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 43,200      | 618,840           | 742,608             |
| 53                              | 2,614       | 32,504            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 64,400      | 683,240           | 819,888             |
| 54                              | 3,826       | 36,330            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 71,400      | 754,640           | 905,568             |
| 55                              | 3,314       | 39,644            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 64,500      | 819,140           | 982,968             |
| 56                              | 3,136       | 42,780            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 74,820      | 893,960           | 1.072,752           |
| 57                              | 4,346       | 47,126            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 103,130     | 997,090           | 1.196,508           |
| 58                              | 5,967       | 53,093            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 101,360     | 1.098,450         | 1.318,140           |
| 59                              | 4,169       | 57,262            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 90,660      | 1.189,110         | 1.426,932           |
| 60                              | 4,897       | 62,159            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 89,660      | 1.278,770         | 1.534,524           |
| 61                              | 4,069       | 66,228            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 101,070     | 1.379,840         | 1.655,808           |
| 62                              | 6,038       | 72,266            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 151,450     | 1.531,290         | 1.837,548           |
| 63                              | 9,107       | 81,373            |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 160,660     | 1.691,950         | 2.030,340           |
| 64                              | 6,959       | 88,332            |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |               |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        | Empolamento:      | 20,00%        |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 121,850     | 1.813,800         | 2.176,560     |
| 65                              | 5,226       | 93,558            |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 91,090      | 1.904,890         | 2.285,868     |
| 66                              | 3,883       | 97,441            |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 67,440      | 1.972,330         | 2.366,796     |
| 67                              | 2,861       | 100,302           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 49,910      | 2.022,240         | 2.426,688     |
| 68                              | 2,130       | 102,432           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 37,790      | 2.060,030         | 2.472,036     |
| 69                              | 1,649       | 104,081           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 30,520      | 2.090,550         | 2.508,660     |
| 70                              | 1,403       | 105,484           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 26,950      | 2.117,500         | 2.541,000     |
| 71                              | 1,292       | 106,776           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 25,070      | 2.142,570         | 2.571,084     |
| 72                              | 1,215       | 107,991           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 23,980      | 2.166,550         | 2.599,860     |
| 73                              | 1,183       | 109,174           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 21,330      | 2.187,880         | 2.625,456     |
| 74                              | 0,950       | 110,124           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 17,070      | 2.204,950         | 2.645,940     |
| 75                              | 0,757       | 110,881           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 13,670      | 2.218,620         | 2.662,344     |
| 76                              | 0,610       | 111,491           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 11,050      | 2.229,670         | 2.675,604     |
| 77                              | 0,495       | 111,986           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 9,170       | 2.238,840         | 2.686,608     |
| 78                              | 0,422       | 112,408           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 8,080       | 2.246,920         | 2.696,304     |
| 79                              | 0,386       | 112,794           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 7,720       | 2.254,640         | 2.705,568     |
| 80                              | 0,386       | 113,180           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 8,080       | 2.262,720         | 2.715,264     |
| 81                              | 0,422       | 113,602           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 9,170       | 2.271,890         | 2.726,268     |
| 82                              | 0,495       | 114,097           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 12,680      | 2.284,570         | 2.741,484     |
| 83                              | 0,773       | 114,870           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 21,980      | 2.306,550         | 2.767,860     |
| 84                              | 1,425       | 116,295           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 39,430      | 2.345,980         | 2.815,176     |
| 85                              | 2,518       | 118,813           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 66,460      | 2.412,440         | 2.894,928     |
| 86                              | 4,128       | 122,941           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 104,860     | 2.517,300         | 3.020,760     |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
| 87                              | 6,358       | 129,299           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 150,650             | 2.667,950         | 3.201,540     |
| 88                              | 8,707       | 138,006           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 101,560             | 2.769,510         | 3.323,412     |
| 89                              | 1,449       | 139,455           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,520              | 2.798,030         | 3.357,636     |
| 90                              | 1,403       | 140,858           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,310              | 2.826,340         | 3.391,608     |
| 91                              | 1,428       | 142,286           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 29,430              | 2.855,770         | 3.426,924     |
| 92                              | 1,515       | 143,801           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 32,690              | 2.888,460         | 3.466,152     |
| 93                              | 1,754       | 145,555           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 34,140              | 2.922,600         | 3.507,120     |
| 94                              | 1,660       | 147,215           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,260              | 2.955,860         | 3.547,032     |
| 95                              | 1,666       | 148,881           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 47,520              | 3.003,380         | 3.604,056     |
| 96                              | 3,086       | 151,967           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 52,160              | 3.055,540         | 3.666,648     |
| 97                              | 2,130       | 154,097           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 38,470              | 3.094,010         | 3.712,812     |
| 98                              | 1,717       | 155,814           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,150              | 3.127,160         | 3.752,592     |
| 99                              | 1,598       | 157,412           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,910              | 3.159,070         | 3.790,884     |
| 100                             | 1,593       | 159,005           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 32,870              | 3.191,940         | 3.830,328     |
| 101                             | 1,694       | 160,699           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 35,930              | 3.227,870         | 3.873,444     |
| 102                             | 1,899       | 162,598           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 41,160              | 3.269,030         | 3.922,836     |
| 103                             | 2,217       | 164,815           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 48,670              | 3.317,700         | 3.981,240     |
| 104                             | 2,650       | 167,465           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 58,660              | 3.376,360         | 4.051,632     |
| 105                             | 3,216       | 170,681           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 71,250              | 3.447,610         | 4.137,132     |
| 106                             | 3,909       | 174,590           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 56,690              | 3.504,300         | 4.205,160     |
| 107                             | 1,760       | 176,350           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 35,590              | 3.539,890         | 4.247,868     |
| 108                             | 1,799       | 178,149           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,390              | 3.568,280         | 4.281,936     |
| 109                             | 1,040       | 179,189           |                    | -                   | -                 | -             |

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|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 26,820              | 3.595,100         | 4.314,120     |
| 110                             | 1,642       | 180,831           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,310              | 3.628,410         | 4.354,092     |
| 111                             | 1,689       | 182,520           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 35,290              | 3.663,700         | 4.396,440     |
| 112                             | 1,840       | 184,360           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 45,800              | 3.709,500         | 4.451,400     |
| 113                             | 2,740       | 187,100           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 39,170              | 3.748,670         | 4.498,404     |
| 114                             | 1,177       | 188,277           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 18,550              | 3.767,220         | 4.520,664     |
| 115                             | 0,678       | 188,955           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,090              | 3.780,310         | 4.536,372     |
| 116                             | 0,631       | 189,586           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,780              | 3.792,090         | 4.550,508     |
| 117                             | 0,547       | 190,133           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,830              | 3.802,920         | 4.563,504     |
| 118                             | 0,536       | 190,669           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,670              | 3.813,590         | 4.576,308     |
| 119                             | 0,531       | 191,200           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 3.824,160         | 4.588,992     |
| 120                             | 0,526       | 191,726           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 3.834,680         | 4.601,616     |
| 121                             | 0,526       | 192,252           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 3.845,200         | 4.614,240     |
| 122                             | 0,526       | 192,778           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 3.855,720         | 4.626,864     |
| 123                             | 0,526       | 193,304           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 3.866,290         | 4.639,548     |
| 124                             | 0,531       | 193,835           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 3.876,860         | 4.652,232     |
| 125                             | 0,526       | 194,361           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 3.887,380         | 4.664,856     |
| 126                             | 0,526       | 194,887           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 3.897,900         | 4.677,480     |
| 127                             | 0,526       | 195,413           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 3.908,470         | 4.690,164     |
| 128                             | 0,531       | 195,944           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 3.919,040         | 4.702,848     |
| 129                             | 0,526       | 196,470           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 3.929,560         | 4.715,472     |
| 130                             | 0,526       | 196,996           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 3.940,080         | 4.728,096     |
| 131                             | 0,526       | 197,522           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 3.950,600         | 4.740,720     |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 132                             | 0,526       | 198,048           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,570      | 3.961,170         | 4.753,404           |
| 133                             | 0,531       | 198,579           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,670      | 3.971,840         | 4.766,208           |
| 134                             | 0,536       | 199,115           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,830      | 3.982,670         | 4.779,204           |
| 135                             | 0,547       | 199,662           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,830      | 3.993,500         | 4.792,200           |
| 136                             | 0,536       | 200,198           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,670      | 4.004,170         | 4.805,004           |
| 137                             | 0,531       | 200,729           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,570      | 4.014,740         | 4.817,688           |
| 138                             | 0,526       | 201,255           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,520      | 4.025,260         | 4.830,312           |
| 139                             | 0,526       | 201,781           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,520      | 4.035,780         | 4.842,936           |
| 140                             | 0,526       | 202,307           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,700      | 4.050,480         | 4.860,576           |
| 141                             | 0,944       | 203,251           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 32,320      | 4.082,800         | 4.899,360           |
| 142                             | 2,288       | 205,539           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 40,740      | 4.123,540         | 4.948,248           |
| 143                             | 1,786       | 207,325           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 30,470      | 4.154,010         | 4.984,812           |
| 144                             | 1,261       | 208,586           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 32,510      | 4.186,520         | 5.023,824           |
| 145                             | 1,990       | 210,576           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 38,180      | 4.224,700         | 5.069,640           |
| 146                             | 1,828       | 212,404           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,400      | 4.253,100         | 5.103,720           |
| 147                             | 1,012       | 213,416           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 26,270      | 4.279,370         | 5.135,244           |
| 148                             | 1,615       | 215,031           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 25,750      | 4.305,120         | 5.166,144           |
| 149                             | 0,960       | 215,991           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 20,280      | 4.325,400         | 5.190,480           |
| 150                             | 1,068       | 217,059           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 22,510      | 4.347,910         | 5.217,492           |
| 151                             | 1,183       | 218,242           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,680      | 4.377,590         | 5.253,108           |
| 152                             | 1,785       | 220,027           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 52,620      | 4.430,210         | 5.316,252           |
| 153                             | 3,477       | 223,504           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 50,430      | 4.480,640         | 5.376,768           |
| 154                             | 1,566       | 225,070           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 29,700              | 4.510,340         | 5.412,408     |
| 155                             | 1,404       | 226,474           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 32,170              | 4.542,510         | 5.451,012     |
| 156                             | 1,813       | 228,287           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 52,400              | 4.594,910         | 5.513,892     |
| 157                             | 3,427       | 231,714           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 53,010              | 4.647,920         | 5.577,504     |
| 158                             | 1,874       | 233,588           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 34,630              | 4.682,550         | 5.619,060     |
| 159                             | 1,589       | 235,177           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 30,470              | 4.713,020         | 5.655,624     |
| 160                             | 1,458       | 236,635           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 27,560              | 4.740,580         | 5.688,696     |
| 161                             | 1,298       | 237,933           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 26,480              | 4.767,060         | 5.720,472     |
| 162                             | 1,350       | 239,283           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,010              | 4.798,070         | 5.757,684     |
| 163                             | 1,751       | 241,034           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 25,880              | 4.823,950         | 5.788,740     |
| 164                             | 0,837       | 241,871           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 14,890              | 4.838,840         | 5.806,608     |
| 165                             | 0,652       | 242,523           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,260              | 4.850,100         | 5.820,120     |
| 166                             | 0,474       | 242,997           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,380               | 4.859,480         | 5.831,376     |
| 167                             | 0,464       | 243,461           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,220               | 4.868,700         | 5.842,440     |
| 168                             | 0,458       | 243,919           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,160               | 4.877,860         | 5.853,432     |
| 169                             | 0,458       | 244,377           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,270               | 4.887,130         | 5.864,556     |
| 170                             | 0,469       | 244,846           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,590               | 4.896,720         | 5.876,064     |
| 171                             | 0,490       | 245,336           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,060              | 4.906,780         | 5.888,136     |
| 172                             | 0,516       | 245,852           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,630              | 4.917,410         | 5.900,892     |
| 173                             | 0,547       | 246,399           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,730              | 4.928,140         | 5.913,768     |
| 174                             | 0,526       | 246,925           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,360              | 4.938,500         | 5.926,200     |
| 175                             | 0,510       | 247,435           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,150              | 4.948,650         | 5.938,380     |
| 176                             | 0,505       | 247,940           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,100              | 4.958,750         | 5.950,500     |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 177                             | 0,505       | 248,445           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,210      | 4.968,960         | 5.962,752           |
| 178                             | 0,516       | 248,961           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 4.979,430         | 5.975,316           |
| 179                             | 0,531       | 249,492           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,210      | 4.993,640         | 5.992,368           |
| 180                             | 0,890       | 250,382           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,870      | 5.022,510         | 6.027,012           |
| 181                             | 1,997       | 252,379           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 30,020      | 5.052,530         | 6.063,036           |
| 182                             | 1,005       | 253,384           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 21,850      | 5.074,380         | 6.089,256           |
| 183                             | 1,180       | 254,564           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 24,150      | 5.098,530         | 6.118,236           |
| 184                             | 1,235       | 255,799           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 25,530      | 5.124,060         | 6.148,872           |
| 185                             | 1,318       | 257,117           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 25,280      | 5.149,340         | 6.179,208           |
| 186                             | 1,210       | 258,327           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 23,460      | 5.172,800         | 6.207,360           |
| 187                             | 1,136       | 259,463           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 51,090      | 5.223,890         | 6.268,668           |
| 188                             | 3,973       | 263,436           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 59,810      | 5.283,700         | 6.340,440           |
| 189                             | 2,008       | 265,444           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,840      | 5.313,540         | 6.376,248           |
| 190                             | 0,976       | 266,420           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,860      | 5.330,400         | 6.396,480           |
| 191                             | 0,710       | 267,130           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,260      | 5.345,660         | 6.414,792           |
| 192                             | 0,816       | 267,946           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 17,490      | 5.363,150         | 6.435,780           |
| 193                             | 0,933       | 268,879           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,900      | 5.383,050         | 6.459,660           |
| 194                             | 1,057       | 269,936           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 20,390      | 5.403,440         | 6.484,128           |
| 195                             | 0,982       | 270,918           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 18,990      | 5.422,430         | 6.506,916           |
| 196                             | 0,917       | 271,835           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 17,750      | 5.440,180         | 6.528,216           |
| 197                             | 0,858       | 272,693           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,680      | 5.456,860         | 6.548,232           |
| 198                             | 0,810       | 273,503           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,780      | 5.472,640         | 6.567,168           |
| 199                             | 0,768       | 274,271           |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 14,990      | 5.487,630         | 6.585,156           |
| 200                             | 0,731       | 275,002           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,680      | 5.507,310         | 6.608,772           |
| 201                             | 1,237       | 276,239           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 41,830      | 5.549,140         | 6.658,968           |
| 202                             | 2,946       | 279,185           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 41,610      | 5.590,750         | 6.708,900           |
| 203                             | 1,215       | 280,400           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,010      | 5.618,760         | 6.742,512           |
| 204                             | 1,586       | 281,986           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 33,420      | 5.652,180         | 6.782,616           |
| 205                             | 1,756       | 283,742           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 32,300      | 5.684,480         | 6.821,376           |
| 206                             | 1,474       | 285,216           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 24,910      | 5.709,390         | 6.851,268           |
| 207                             | 1,017       | 286,233           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,270      | 5.746,660         | 6.895,992           |
| 208                             | 2,710       | 288,943           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,240      | 5.783,900         | 6.940,680           |
| 209                             | 1,014       | 289,957           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,560      | 5.799,460         | 6.959,352           |
| 210                             | 0,542       | 290,499           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,620      | 5.811,080         | 6.973,296           |
| 211                             | 0,620       | 291,119           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,240      | 5.824,320         | 6.989,184           |
| 212                             | 0,704       | 291,823           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,040      | 5.839,360         | 7.007,232           |
| 213                             | 0,800       | 292,623           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,310      | 5.854,670         | 7.025,604           |
| 214                             | 0,731       | 293,354           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,980      | 5.868,650         | 7.042,380           |
| 215                             | 0,667       | 294,021           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,770      | 5.881,420         | 7.057,704           |
| 216                             | 0,610       | 294,631           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 5.893,140         | 7.071,768           |
| 217                             | 0,562       | 295,193           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,830      | 5.903,970         | 7.084,764           |
| 218                             | 0,521       | 295,714           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,050      | 5.914,020         | 7.096,824           |
| 219                             | 0,484       | 296,198           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,510      | 5.925,530         | 7.110,636           |
| 220                             | 0,667       | 296,865           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,650      | 5.945,180         | 7.134,216           |
| 221                             | 1,298       | 298,163           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,390      | 5.982,570         | 7.179,084           |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
| 222                             | 2,441       | 300,604           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 36,400              | 6.018,970         | 7.222,764     |
| 223                             | 1,199       | 301,803           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 29,030              | 6.048,000         | 7.257,600     |
| 224                             | 1,704       | 303,507           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,010              | 6.076,010         | 7.291,212     |
| 225                             | 1,097       | 304,604           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 23,190              | 6.099,200         | 7.319,040     |
| 226                             | 1,222       | 305,826           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 46,990              | 6.146,190         | 7.375,428     |
| 227                             | 3,477       | 309,303           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 52,560              | 6.198,750         | 7.438,500     |
| 228                             | 1,779       | 311,082           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 26,910              | 6.225,660         | 7.470,792     |
| 229                             | 0,912       | 311,994           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 16,530              | 6.242,190         | 7.490,628     |
| 230                             | 0,741       | 312,735           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 16,530              | 6.258,720         | 7.510,464     |
| 231                             | 0,912       | 313,647           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 20,070              | 6.278,790         | 7.534,548     |
| 232                             | 1,095       | 314,742           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 32,370              | 6.311,160         | 7.573,392     |
| 233                             | 2,142       | 316,884           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,740              | 6.344,900         | 7.613,880     |
| 234                             | 1,232       | 318,116           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,970              | 6.373,870         | 7.648,644     |
| 235                             | 1,665       | 319,781           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,940              | 6.407,810         | 7.689,372     |
| 236                             | 1,729       | 321,510           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 43,610              | 6.451,420         | 7.741,704     |
| 237                             | 2,632       | 324,142           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 36,140              | 6.487,560         | 7.785,072     |
| 238                             | 0,982       | 325,124           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 14,140              | 6.501,700         | 7.802,040     |
| 239                             | 0,432       | 325,556           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,080               | 6.509,780         | 7.811,736     |
| 240                             | 0,376       | 325,932           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 6,800               | 6.516,580         | 7.819,896     |
| 241                             | 0,304       | 326,236           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 6,950               | 6.523,530         | 7.828,236     |
| 242                             | 0,391       | 326,627           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,550               | 6.532,080         | 7.838,496     |
| 243                             | 0,464       | 327,091           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,850               | 6.541,930         | 7.850,316     |
| 244                             | 0,521       | 327,612           |                    | -                   | -                 | -             |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 10,780      | 6.552,710         | 7.863,252           |
| 245                             | 0,557       | 328,169           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,460      | 6.564,170         | 7.877,004           |
| 246                             | 0,589       | 328,758           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,880      | 6.576,050         | 7.891,260           |
| 247                             | 0,599       | 329,357           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,930      | 6.587,980         | 7.905,576           |
| 248                             | 0,594       | 329,951           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,670      | 6.599,650         | 7.919,580           |
| 249                             | 0,573       | 330,524           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,090      | 6.610,740         | 7.932,888           |
| 250                             | 0,536       | 331,060           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,200      | 6.620,940         | 7.945,128           |
| 251                             | 0,484       | 331,544           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,000      | 6.630,940         | 7.957,128           |
| 252                             | 0,516       | 332,060           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,420      | 6.641,360         | 7.969,632           |
| 253                             | 0,526       | 332,586           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,520      | 6.651,880         | 7.982,256           |
| 254                             | 0,526       | 333,112           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,310      | 6.662,190         | 7.994,628           |
| 255                             | 0,505       | 333,617           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,050      | 6.675,240         | 8.010,288           |
| 256                             | 0,800       | 334,417           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 25,740      | 6.700,980         | 8.041,176           |
| 257                             | 1,774       | 336,191           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 53,390      | 6.754,370         | 8.105,244           |
| 258                             | 3,565       | 339,756           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 49,590      | 6.803,960         | 8.164,752           |
| 259                             | 1,394       | 341,150           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 33,920      | 6.837,880         | 8.205,456           |
| 260                             | 1,998       | 343,148           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,060      | 6.874,940         | 8.249,928           |
| 261                             | 1,708       | 344,856           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 43,160      | 6.918,100         | 8.301,720           |
| 262                             | 2,608       | 347,464           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 36,280      | 6.954,380         | 8.345,256           |
| 263                             | 1,020       | 348,484           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,190      | 6.970,570         | 8.364,684           |
| 264                             | 0,599       | 349,083           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,930      | 6.983,500         | 8.380,200           |
| 265                             | 0,694       | 349,777           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,780      | 6.998,280         | 8.397,936           |
| 266                             | 0,784       | 350,561           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,370      | 7.014,650         | 8.417,580           |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 267                             | 0,853       | 351,414           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 17,600      | 7.032,250         | 8.438,700           |
| 268                             | 0,907       | 352,321           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 18,510      | 7.050,760         | 8.460,912           |
| 269                             | 0,944       | 353,265           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,100      | 7.069,860         | 8.483,832           |
| 270                             | 0,966       | 354,231           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,370      | 7.089,230         | 8.507,076           |
| 271                             | 0,971       | 355,202           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,370      | 7.108,600         | 8.530,320           |
| 272                             | 0,966       | 356,168           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,050      | 7.127,650         | 8.553,180           |
| 273                             | 0,939       | 357,107           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 18,400      | 7.146,050         | 8.575,260           |
| 274                             | 0,901       | 358,008           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 17,430      | 7.163,480         | 8.596,176           |
| 275                             | 0,842       | 358,850           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,150      | 7.179,630         | 8.615,556           |
| 276                             | 0,773       | 359,623           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,620      | 7.194,250         | 8.633,100           |
| 277                             | 0,689       | 360,312           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,830      | 7.207,080         | 8.648,496           |
| 278                             | 0,594       | 360,906           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,300      | 7.218,380         | 8.662,056           |
| 279                             | 0,536       | 361,442           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,930      | 7.229,310         | 8.675,172           |
| 280                             | 0,557       | 361,999           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,190      | 7.241,500         | 8.689,800           |
| 281                             | 0,662       | 362,661           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,100      | 7.256,600         | 8.707,920           |
| 282                             | 0,848       | 363,509           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,710      | 7.276,310         | 8.731,572           |
| 283                             | 1,123       | 364,632           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 26,090      | 7.302,400         | 8.762,880           |
| 284                             | 1,486       | 366,118           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 34,370      | 7.336,770         | 8.804,124           |
| 285                             | 1,951       | 368,069           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 47,030      | 7.383,800         | 8.860,560           |
| 286                             | 2,752       | 370,821           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 39,120      | 7.422,920         | 8.907,504           |
| 287                             | 1,160       | 371,981           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 24,820      | 7.447,740         | 8.937,288           |
| 288                             | 1,322       | 373,303           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,240      | 7.474,980         | 8.969,976           |
| 289                             | 1,402       | 374,705           |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |               |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        | Empolamento:      | 20,00%        |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 25,260      | 7.500,240         | 9.000,288     |
| 290                             | 1,124       | 375,829           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 29,800      | 7.530,040         | 9.036,048     |
| 291                             | 1,856       | 377,685           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 34,450      | 7.564,490         | 9.077,388     |
| 292                             | 1,589       | 379,274           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 29,310      | 7.593,800         | 9.112,560     |
| 293                             | 1,342       | 380,616           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 24,380      | 7.618,180         | 9.141,816     |
| 294                             | 1,096       | 381,712           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 28,650      | 7.646,830         | 9.176,196     |
| 295                             | 1,769       | 383,481           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 32,900      | 7.679,730         | 9.215,676     |
| 296                             | 1,521       | 385,002           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 39,800      | 7.719,530         | 9.263,436     |
| 297                             | 2,459       | 387,461           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 33,490      | 7.753,020         | 9.303,624     |
| 298                             | 0,890       | 388,351           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 13,590      | 7.766,610         | 9.319,932     |
| 299                             | 0,469       | 388,820           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 10,370      | 7.776,980         | 9.332,376     |
| 300                             | 0,568       | 389,388           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 12,250      | 7.789,230         | 9.347,076     |
| 301                             | 0,657       | 390,045           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 13,880      | 7.803,110         | 9.363,732     |
| 302                             | 0,731       | 390,776           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 15,250      | 7.818,360         | 9.382,032     |
| 303                             | 0,794       | 391,570           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 16,360      | 7.834,720         | 9.401,664     |
| 304                             | 0,842       | 392,412           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 17,220      | 7.851,940         | 9.422,328     |
| 305                             | 0,880       | 393,292           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 17,810      | 7.869,750         | 9.443,700     |
| 306                             | 0,901       | 394,193           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 17,380      | 7.887,130         | 9.464,556     |
| 307                             | 0,837       | 395,030           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 16,000      | 7.903,130         | 9.483,756     |
| 308                             | 0,763       | 395,793           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 14,360      | 7.917,490         | 9.500,988     |
| 309                             | 0,673       | 396,466           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 12,620      | 7.930,110         | 9.516,132     |
| 310                             | 0,589       | 397,055           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 11,150      | 7.941,260         | 9.529,512     |
| 311                             | 0,526       | 397,581           |                    | -           | -                 | -             |
|                                 |             | -                 | 10,000             | 10,050      | 7.951,310         | 9.541,572     |

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Prefeitura Municipal de Caracará

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
| 312                             | 0,479       | 398,060           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,370               | 7.960,680         | 9.552,816     |
| 313                             | 0,458       | 398,518           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,110               | 7.969,790         | 9.563,748     |
| 314                             | 0,453       | 398,971           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,220               | 7.979,010         | 9.574,812     |
| 315                             | 0,469       | 399,440           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,740               | 7.988,750         | 9.586,500     |
| 316                             | 0,505       | 399,945           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,670              | 7.999,420         | 9.599,304     |
| 317                             | 0,562       | 400,507           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,560              | 8.011,980         | 9.614,376     |
| 318                             | 0,694       | 401,201           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 15,360              | 8.027,340         | 9.632,808     |
| 319                             | 0,842       | 402,043           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 18,620              | 8.045,960         | 9.655,152     |
| 320                             | 1,020       | 403,063           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 24,730              | 8.070,690         | 9.684,828     |
| 321                             | 1,453       | 404,516           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 38,820              | 8.109,510         | 9.731,412     |
| 322                             | 2,429       | 406,945           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 34,660              | 8.144,170         | 9.773,004     |
| 323                             | 1,037       | 407,982           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 24,670              | 8.168,840         | 9.802,608     |
| 324                             | 1,430       | 409,412           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 26,190              | 8.195,030         | 9.834,036     |
| 325                             | 1,189       | 410,601           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 25,770              | 8.220,800         | 9.864,960     |
| 326                             | 1,388       | 411,989           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 23,980              | 8.244,780         | 9.893,736     |
| 327                             | 1,010       | 412,999           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 20,480              | 8.265,260         | 9.918,312     |
| 328                             | 1,038       | 414,037           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 25,230              | 8.290,490         | 9.948,588     |
| 329                             | 1,485       | 415,522           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 29,590              | 8.320,080         | 9.984,096     |
| 330                             | 1,474       | 416,996           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 34,110              | 8.354,190         | 10.025,028    |
| 331                             | 1,937       | 418,933           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,080              | 8.385,270         | 10.062,324    |
| 332                             | 1,171       | 420,104           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 23,150              | 8.408,420         | 10.090,104    |
| 333                             | 1,144       | 421,248           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 29,790              | 8.438,210         | 10.125,852    |
| 334                             | 1,835       | 423,083           |                    | -                   | -                 | -             |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 28,550              | 8.466,760         | 10.160,112    |
| 335                             | 1,020       | 424,103           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 22,070              | 8.488,830         | 10.186,596    |
| 336                             | 1,187       | 425,290           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 47,400              | 8.536,230         | 10.243,476    |
| 337                             | 3,553       | 428,843           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 54,410              | 8.590,640         | 10.308,768    |
| 338                             | 1,888       | 430,731           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,860              | 8.619,500         | 10.343,400    |
| 339                             | 0,998       | 431,729           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 17,660              | 8.637,160         | 10.364,592    |
| 340                             | 0,768       | 432,497           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 16,260              | 8.653,420         | 10.384,104    |
| 341                             | 0,858       | 433,355           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 16,050              | 8.669,470         | 10.403,364    |
| 342                             | 0,747       | 434,102           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 14,040              | 8.683,510         | 10.420,212    |
| 343                             | 0,657       | 434,759           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,460              | 8.695,970         | 10.435,164    |
| 344                             | 0,589       | 435,348           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,310              | 8.707,280         | 10.448,736    |
| 345                             | 0,542       | 435,890           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,520              | 8.717,800         | 10.461,360    |
| 346                             | 0,510       | 436,400           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,150              | 8.727,950         | 10.473,540    |
| 347                             | 0,505       | 436,905           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,210              | 8.738,160         | 10.485,792    |
| 348                             | 0,516       | 437,421           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,630              | 8.748,790         | 10.498,548    |
| 349                             | 0,547       | 437,968           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 8.759,360         | 10.511,232    |
| 350                             | 0,510       | 438,478           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,940               | 8.769,300         | 10.523,160    |
| 351                             | 0,484       | 438,962           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,580               | 8.778,880         | 10.534,656    |
| 352                             | 0,474       | 439,436           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,480               | 8.788,360         | 10.546,032    |
| 353                             | 0,474       | 439,910           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,580               | 8.797,940         | 10.557,528    |
| 354                             | 0,484       | 440,394           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,890               | 8.807,830         | 10.569,396    |
| 355                             | 0,505       | 440,899           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,840               | 8.817,670         | 10.581,204    |
| 356                             | 0,479       | 441,378           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,430               | 8.827,100         | 10.592,520    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 357                             | 0,464       | 441,842           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,220       | 8.836,320         | 10.603,584          |
| 358                             | 0,458       | 442,300           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,220       | 8.845,540         | 10.614,648          |
| 359                             | 0,464       | 442,764           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,430       | 8.854,970         | 10.625,964          |
| 360                             | 0,479       | 443,243           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,890       | 8.864,860         | 10.637,832          |
| 361                             | 0,510       | 443,753           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,890       | 8.874,750         | 10.649,700          |
| 362                             | 0,479       | 444,232           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,370       | 8.884,120         | 10.660,944          |
| 363                             | 0,458       | 444,690           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,110       | 8.893,230         | 10.671,876          |
| 364                             | 0,453       | 445,143           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,060       | 8.902,290         | 10.682,748          |
| 365                             | 0,453       | 445,596           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,220       | 8.911,510         | 10.693,812          |
| 366                             | 0,469       | 446,065           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,690       | 8.921,200         | 10.705,440          |
| 367                             | 0,500       | 446,565           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,740       | 8.930,940         | 10.717,128          |
| 368                             | 0,474       | 447,039           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,380       | 8.940,320         | 10.728,384          |
| 369                             | 0,464       | 447,503           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,220       | 8.949,540         | 10.739,448          |
| 370                             | 0,458       | 447,961           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,320       | 8.958,860         | 10.750,632          |
| 371                             | 0,474       | 448,435           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,690       | 8.968,550         | 10.762,260          |
| 372                             | 0,495       | 448,930           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,530       | 8.978,080         | 10.773,696          |
| 373                             | 0,458       | 449,388           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,850       | 8.986,930         | 10.784,316          |
| 374                             | 0,427       | 449,815           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,390       | 8.995,320         | 10.794,384          |
| 375                             | 0,412       | 450,227           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,240       | 9.003,560         | 10.804,272          |
| 376                             | 0,412       | 450,639           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,290       | 9.011,850         | 10.814,220          |
| 377                             | 0,417       | 451,056           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,550       | 9.020,400         | 10.824,480          |
| 378                             | 0,438       | 451,494           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,070       | 9.029,470         | 10.835,364          |
| 379                             | 0,469       | 451,963           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracará

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 9,790               | 9.039,260         | 10.847,112    |
| 380                             | 0,510       | 452,473           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 16,220              | 9.055,480         | 10.866,576    |
| 381                             | 1,112       | 453,585           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 40,700              | 9.096,180         | 10.915,416    |
| 382                             | 2,958       | 456,543           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 44,160              | 9.140,340         | 10.968,408    |
| 383                             | 1,458       | 458,001           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 25,300              | 9.165,640         | 10.998,768    |
| 384                             | 1,072       | 459,073           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 24,240              | 9.189,880         | 11.027,856    |
| 385                             | 1,352       | 460,425           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,500              | 9.223,380         | 11.068,056    |
| 386                             | 1,998       | 462,423           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,270              | 9.256,650         | 11.107,980    |
| 387                             | 1,329       | 463,752           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 41,470              | 9.298,120         | 11.157,744    |
| 388                             | 2,818       | 466,570           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 38,110              | 9.336,230         | 11.203,476    |
| 389                             | 0,993       | 467,563           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 14,310              | 9.350,540         | 11.220,648    |
| 390                             | 0,438       | 468,001           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,910               | 9.359,450         | 11.231,340    |
| 391                             | 0,453       | 468,454           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,170               | 9.368,620         | 11.242,344    |
| 392                             | 0,464       | 468,918           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,170               | 9.377,790         | 11.253,348    |
| 393                             | 0,453       | 469,371           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,750               | 9.386,540         | 11.263,848    |
| 394                             | 0,422       | 469,793           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,430               | 9.395,970         | 11.275,164    |
| 395                             | 0,521       | 470,314           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 14,280              | 9.410,250         | 11.292,300    |
| 396                             | 0,907       | 471,221           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 25,110              | 9.435,360         | 11.322,432    |
| 397                             | 1,604       | 472,825           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 26,540              | 9.461,900         | 11.354,280    |
| 398                             | 1,050       | 473,875           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 29,120              | 9.491,020         | 11.389,224    |
| 399                             | 1,862       | 475,737           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 29,970              | 9.520,990         | 11.425,188    |
| 400                             | 1,135       | 476,872           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 24,410              | 9.545,400         | 11.454,480    |
| 401                             | 1,306       | 478,178           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 30,770              | 9.576,170         | 11.491,404    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 402                             | 1,771       | 479,949           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 35,560      | 9.611,730         | 11.534,076          |
| 403                             | 1,785       | 481,734           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 31,350      | 9.643,080         | 11.571,696          |
| 404                             | 1,350       | 483,084           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 24,850      | 9.667,930         | 11.601,516          |
| 405                             | 1,135       | 484,219           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,150      | 9.696,080         | 11.635,296          |
| 406                             | 1,680       | 485,899           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 43,600      | 9.739,680         | 11.687,616          |
| 407                             | 2,680       | 488,579           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,700      | 9.777,380         | 11.732,856          |
| 408                             | 1,090       | 489,669           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,840      | 9.794,220         | 11.753,064          |
| 409                             | 0,594       | 490,263           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,770      | 9.805,990         | 11.767,188          |
| 410                             | 0,583       | 490,846           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,350      | 9.817,340         | 11.780,808          |
| 411                             | 0,552       | 491,398           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,520      | 9.827,860         | 11.793,432          |
| 412                             | 0,500       | 491,898           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,270       | 9.837,130         | 11.804,556          |
| 413                             | 0,427       | 492,325           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,750       | 9.845,880         | 11.815,056          |
| 414                             | 0,448       | 492,773           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,150      | 9.857,030         | 11.828,436          |
| 415                             | 0,667       | 493,440           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 17,730      | 9.874,760         | 11.849,712          |
| 416                             | 1,106       | 494,546           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,800      | 9.903,560         | 11.884,272          |
| 417                             | 1,774       | 496,320           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 50,330      | 9.953,890         | 11.944,668          |
| 418                             | 3,259       | 499,579           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 46,600      | 10.000,490        | 12.000,588          |
| 419                             | 1,401       | 500,980           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 30,450      | 10.030,940        | 12.037,128          |
| 420                             | 1,644       | 502,624           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 33,330      | 10.064,270        | 12.077,124          |
| 421                             | 1,689       | 504,313           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 52,170      | 10.116,440        | 12.139,728          |
| 422                             | 3,528       | 507,841           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 51,490      | 10.167,930        | 12.201,516          |
| 423                             | 1,621       | 509,462           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 22,940      | 10.190,870        | 12.229,044          |
| 424                             | 0,673       | 510,135           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracará

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 12,040              | 10.202,910        | 12.243,492    |
| 425                             | 0,531       | 510,666           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,940              | 10.215,850        | 12.259,020    |
| 426                             | 0,763       | 511,429           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 15,890              | 10.231,740        | 12.278,088    |
| 427                             | 0,826       | 512,255           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 16,950              | 10.248,690        | 12.298,428    |
| 428                             | 0,869       | 513,124           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 17,590              | 10.266,280        | 12.319,536    |
| 429                             | 0,890       | 514,014           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 17,800              | 10.284,080        | 12.340,896    |
| 430                             | 0,890       | 514,904           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 17,590              | 10.301,670        | 12.362,004    |
| 431                             | 0,869       | 515,773           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 16,950              | 10.318,620        | 12.382,344    |
| 432                             | 0,826       | 516,599           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 15,890              | 10.334,510        | 12.401,412    |
| 433                             | 0,763       | 517,362           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 14,520              | 10.349,030        | 12.418,836    |
| 434                             | 0,689       | 518,051           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,090              | 10.362,120        | 12.434,544    |
| 435                             | 0,620       | 518,671           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,770              | 10.373,890        | 12.448,668    |
| 436                             | 0,557       | 519,228           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 10.384,460        | 12.461,352    |
| 437                             | 0,500       | 519,728           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,740               | 10.394,200        | 12.473,040    |
| 438                             | 0,474       | 520,202           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,270               | 10.403,470        | 12.484,164    |
| 439                             | 0,453       | 520,655           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,910               | 10.412,380        | 12.494,856    |
| 440                             | 0,438       | 521,093           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,600               | 10.420,980        | 12.505,176    |
| 441                             | 0,422       | 521,515           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,390               | 10.429,370        | 12.515,244    |
| 442                             | 0,417       | 521,932           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,290               | 10.437,660        | 12.525,192    |
| 443                             | 0,412       | 522,344           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,190               | 10.445,850        | 12.535,020    |
| 444                             | 0,407       | 522,751           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,190               | 10.454,040        | 12.544,848    |
| 445                             | 0,412       | 523,163           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,290               | 10.462,330        | 12.554,796    |
| 446                             | 0,417       | 523,580           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,440               | 10.470,770        | 12.564,924    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 447                             | 0,427       | 524,007           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,650       | 10.479,420        | 12.575,304          |
| 448                             | 0,438       | 524,445           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,960       | 10.488,380        | 12.586,056          |
| 449                             | 0,458       | 524,903           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,160       | 10.497,540        | 12.597,048          |
| 450                             | 0,458       | 525,361           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,220       | 10.506,760        | 12.608,112          |
| 451                             | 0,464       | 525,825           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,330       | 10.516,090        | 12.619,308          |
| 452                             | 0,469       | 526,294           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,480       | 10.525,570        | 12.630,684          |
| 453                             | 0,479       | 526,773           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,740       | 10.535,310        | 12.642,372          |
| 454                             | 0,495       | 527,268           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,110      | 10.545,420        | 12.654,504          |
| 455                             | 0,516       | 527,784           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,790      | 10.561,210        | 12.673,452          |
| 456                             | 1,063       | 528,847           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 38,390      | 10.599,600        | 12.719,520          |
| 457                             | 2,776       | 531,623           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 44,560      | 10.644,160        | 12.772,992          |
| 458                             | 1,680       | 533,303           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 34,430      | 10.678,590        | 12.814,308          |
| 459                             | 1,763       | 535,066           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,820      | 10.706,410        | 12.847,692          |
| 460                             | 1,019       | 536,085           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,060      | 10.735,470        | 12.882,564          |
| 461                             | 1,887       | 537,972           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 34,210      | 10.769,680        | 12.923,616          |
| 462                             | 1,534       | 539,506           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 35,890      | 10.805,570        | 12.966,684          |
| 463                             | 2,055       | 541,561           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 30,150      | 10.835,720        | 13.002,864          |
| 464                             | 0,960       | 542,521           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,180      | 10.849,900        | 13.019,880          |
| 465                             | 0,458       | 542,979           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,110       | 10.859,010        | 13.030,812          |
| 466                             | 0,453       | 543,432           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,110       | 10.868,120        | 13.041,744          |
| 467                             | 0,458       | 543,890           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,220       | 10.877,340        | 13.052,808          |
| 468                             | 0,464       | 544,354           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,380       | 10.886,720        | 13.064,064          |
| 469                             | 0,474       | 544,828           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracará

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 9,640               | 10.896,360        | 13.075,632    |
| 470                             | 0,490       | 545,318           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,950               | 10.906,310        | 13.087,572    |
| 471                             | 0,505       | 545,823           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,310              | 10.916,620        | 13.099,944    |
| 472                             | 0,526       | 546,349           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,680              | 10.927,300        | 13.112,760    |
| 473                             | 0,542       | 546,891           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,040              | 10.938,340        | 13.126,008    |
| 474                             | 0,562       | 547,453           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,400              | 10.949,740        | 13.139,688    |
| 475                             | 0,578       | 548,031           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,670              | 10.961,410        | 13.153,692    |
| 476                             | 0,589       | 548,620           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,830              | 10.973,240        | 13.167,888    |
| 477                             | 0,594       | 549,214           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,770              | 10.985,010        | 13.182,012    |
| 478                             | 0,583       | 549,797           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,560              | 10.996,570        | 13.195,884    |
| 479                             | 0,573       | 550,370           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,250              | 11.007,820        | 13.209,384    |
| 480                             | 0,552       | 550,922           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 14,050              | 11.021,870        | 13.226,244    |
| 481                             | 0,853       | 551,775           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 26,840              | 11.048,710        | 13.258,452    |
| 482                             | 1,831       | 553,606           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 54,410              | 11.103,120        | 13.323,744    |
| 483                             | 3,610       | 557,216           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 49,820              | 11.152,940        | 13.383,528    |
| 484                             | 1,372       | 558,588           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,720              | 11.184,660        | 13.421,592    |
| 485                             | 1,800       | 560,388           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 30,390              | 11.215,050        | 13.458,060    |
| 486                             | 1,239       | 561,627           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,860              | 11.248,910        | 13.498,692    |
| 487                             | 2,147       | 563,774           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,180              | 11.280,090        | 13.536,108    |
| 488                             | 0,971       | 564,745           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 15,650              | 11.295,740        | 13.554,888    |
| 489                             | 0,594       | 565,339           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,510              | 11.307,250        | 13.568,700    |
| 490                             | 0,557       | 565,896           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,780              | 11.318,030        | 13.581,636    |
| 491                             | 0,521       | 566,417           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 18,190              | 11.336,220        | 13.603,464    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 492                             | 1,298       | 567,715           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 23,160      | 11.359,380        | 13.631,256          |
| 493                             | 1,018       | 568,733           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 21,090      | 11.380,470        | 13.656,564          |
| 494                             | 1,091       | 569,824           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 30,580      | 11.411,050        | 13.693,260          |
| 495                             | 1,967       | 571,791           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 33,820      | 11.444,870        | 13.733,844          |
| 496                             | 1,415       | 573,206           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 42,760      | 11.487,630        | 13.785,156          |
| 497                             | 2,861       | 576,067           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,090      | 11.524,720        | 13.829,664          |
| 498                             | 0,848       | 576,915           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,640      | 11.541,360        | 13.849,632          |
| 499                             | 0,816       | 577,731           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,000      | 11.557,360        | 13.868,832          |
| 500                             | 0,784       | 578,515           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,200      | 11.572,560        | 13.887,072          |
| 501                             | 0,736       | 579,251           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,300      | 11.591,860        | 13.910,232          |
| 502                             | 1,194       | 580,445           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 39,400      | 11.631,260        | 13.957,512          |
| 503                             | 2,746       | 583,191           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 44,470      | 11.675,730        | 14.010,876          |
| 504                             | 1,701       | 584,892           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 33,810      | 11.709,540        | 14.051,448          |
| 505                             | 1,680       | 586,572           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 33,330      | 11.742,870        | 14.091,444          |
| 506                             | 1,653       | 588,225           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 43,080      | 11.785,950        | 14.143,140          |
| 507                             | 2,655       | 590,880           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,290      | 11.823,240        | 14.187,888          |
| 508                             | 1,074       | 591,954           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,570      | 11.839,810        | 14.207,772          |
| 509                             | 0,583       | 592,537           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 11.851,530        | 14.221,836          |
| 510                             | 0,589       | 593,126           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 11.863,250        | 14.235,900          |
| 511                             | 0,583       | 593,709           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,560      | 11.874,810        | 14.249,772          |
| 512                             | 0,573       | 594,282           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,250      | 11.886,060        | 14.263,272          |
| 513                             | 0,552       | 594,834           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,830      | 11.896,890        | 14.276,268          |
| 514                             | 0,531       | 595,365           |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 11,300      | 11.908,190        | 14.289,828          |
| 515                             | 0,599       | 595,964           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,790      | 11.922,980        | 14.307,576          |
| 516                             | 0,880       | 596,844           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 22,660      | 11.945,640        | 14.334,768          |
| 517                             | 1,386       | 598,230           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 41,800      | 11.987,440        | 14.384,928          |
| 518                             | 2,794       | 601,024           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 38,820      | 12.026,260        | 14.431,512          |
| 519                             | 1,088       | 602,112           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,870      | 12.056,130        | 14.467,356          |
| 520                             | 1,899       | 604,011           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 30,850      | 12.086,980        | 14.504,376          |
| 521                             | 1,186       | 605,197           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,650      | 12.106,630        | 14.527,956          |
| 522                             | 0,779       | 605,976           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,210      | 12.116,840        | 14.540,208          |
| 523                             | 0,242       | 606,218           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,690       | 12.123,530        | 14.548,236          |
| 524                             | 0,427       | 606,645           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,280       | 12.131,810        | 14.558,172          |
| 525                             | 0,401       | 607,046           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,970       | 12.139,780        | 14.567,736          |
| 526                             | 0,396       | 607,442           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,030       | 12.147,810        | 14.577,372          |
| 527                             | 0,407       | 607,849           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,450       | 12.156,260        | 14.587,512          |
| 528                             | 0,438       | 608,287           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,280       | 12.165,540        | 14.598,648          |
| 529                             | 0,490       | 608,777           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,260      | 12.177,800        | 14.613,360          |
| 530                             | 0,736       | 609,513           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 21,170      | 12.198,970        | 14.638,764          |
| 531                             | 1,381       | 610,894           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 38,520      | 12.237,490        | 14.684,988          |
| 532                             | 2,471       | 613,365           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 36,570      | 12.274,060        | 14.728,872          |
| 533                             | 1,186       | 614,551           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,480      | 12.303,540        | 14.764,248          |
| 534                             | 1,762       | 616,313           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,120      | 12.332,660        | 14.799,192          |
| 535                             | 1,150       | 617,463           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 21,810      | 12.354,470        | 14.825,364          |
| 536                             | 1,031       | 618,494           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 40,870      | 12.395,340        | 14.874,408          |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 537                             | 3,056       | 621,550           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 43,320      | 12.438,660        | 14.926,392          |
| 538                             | 1,276       | 622,826           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 17,080      | 12.455,740        | 14.946,888          |
| 539                             | 0,432       | 623,258           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,970       | 12.463,710        | 14.956,452          |
| 540                             | 0,365       | 623,623           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,590      | 12.474,300        | 14.969,160          |
| 541                             | 0,694       | 624,317           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 17,460      | 12.491,760        | 14.990,112          |
| 542                             | 1,052       | 625,369           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 32,460      | 12.524,220        | 15.029,064          |
| 543                             | 2,194       | 627,563           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 33,650      | 12.557,870        | 15.069,444          |
| 544                             | 1,171       | 628,734           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,750      | 12.585,620        | 15.102,744          |
| 545                             | 1,604       | 630,338           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,840      | 12.613,460        | 15.136,152          |
| 546                             | 1,180       | 631,518           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 46,640      | 12.660,100        | 15.192,120          |
| 547                             | 3,484       | 635,002           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 52,410      | 12.712,510        | 15.255,012          |
| 548                             | 1,757       | 636,759           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 25,620      | 12.738,130        | 15.285,756          |
| 549                             | 0,805       | 637,564           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,050      | 12.751,180        | 15.301,416          |
| 550                             | 0,500       | 638,064           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,050      | 12.761,230        | 15.313,476          |
| 551                             | 0,505       | 638,569           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 16,820      | 12.778,050        | 15.333,660          |
| 552                             | 1,177       | 639,746           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 45,230      | 12.823,280        | 15.387,936          |
| 553                             | 3,346       | 643,092           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 51,010      | 12.874,290        | 15.449,148          |
| 554                             | 1,755       | 644,847           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 35,020      | 12.909,310        | 15.491,172          |
| 555                             | 1,747       | 646,594           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 30,010      | 12.939,320        | 15.527,184          |
| 556                             | 1,254       | 647,848           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 40,480      | 12.979,800        | 15.575,760          |
| 557                             | 2,794       | 650,642           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 39,600      | 13.019,400        | 15.623,280          |
| 558                             | 1,166       | 651,808           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,340      | 13.038,740        | 15.646,488          |
| 559                             | 0,768       | 652,576           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 13,410      | 13.052,150        | 15.662,580          |
| 560                             | 0,573       | 653,149           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,300      | 13.063,450        | 15.676,140          |
| 561                             | 0,557       | 653,706           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,640      | 13.078,090        | 15.693,708          |
| 562                             | 0,907       | 654,613           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,600      | 13.105,690        | 15.726,828          |
| 563                             | 1,853       | 656,466           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,870      | 13.143,560        | 15.772,272          |
| 564                             | 1,934       | 658,400           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 36,660      | 13.180,220        | 15.816,264          |
| 565                             | 1,732       | 660,132           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,490      | 13.208,710        | 15.850,452          |
| 566                             | 1,117       | 661,249           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,600      | 13.236,310        | 15.883,572          |
| 567                             | 1,643       | 662,892           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 22,160      | 13.258,470        | 15.910,164          |
| 568                             | 0,573       | 663,465           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,630      | 13.269,100        | 15.922,920          |
| 569                             | 0,490       | 663,955           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,860       | 13.277,960        | 15.933,552          |
| 570                             | 0,396       | 664,351           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,440       | 13.286,400        | 15.943,680          |
| 571                             | 0,448       | 664,799           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,380       | 13.295,780        | 15.954,936          |
| 572                             | 0,490       | 665,289           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,110      | 13.305,890        | 15.967,068          |
| 573                             | 0,521       | 665,810           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,630      | 13.316,520        | 15.979,824          |
| 574                             | 0,542       | 666,352           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,990      | 13.327,510        | 15.993,012          |
| 575                             | 0,557       | 666,909           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,140      | 13.338,650        | 16.006,380          |
| 576                             | 0,557       | 667,466           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,090      | 13.349,740        | 16.019,688          |
| 577                             | 0,552       | 668,018           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,880      | 13.360,620        | 16.032,744          |
| 578                             | 0,536       | 668,554           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,090      | 13.371,710        | 16.046,052          |
| 579                             | 0,573       | 669,127           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 13.383,430        | 16.060,116          |
| 580                             | 0,599       | 669,726           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,140      | 13.395,570        | 16.074,684          |
| 581                             | 0,615       | 670,341           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,350      | 13.407,920        | 16.089,504          |

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Prefeitura Municipal de Caracará

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
| 582                             | 0,620       | 670,961           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,350              | 13.420,270        | 16.104,324    |
| 583                             | 0,615       | 671,576           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,140              | 13.432,410        | 16.118,892    |
| 584                             | 0,599       | 672,175           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,720              | 13.444,130        | 16.132,956    |
| 585                             | 0,573       | 672,748           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,150              | 13.455,280        | 16.146,336    |
| 586                             | 0,542       | 673,290           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,370              | 13.465,650        | 16.158,780    |
| 587                             | 0,495       | 673,785           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,310              | 13.475,960        | 16.171,152    |
| 588                             | 0,536       | 674,321           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,040              | 13.487,000        | 16.184,400    |
| 589                             | 0,568       | 674,889           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,570              | 13.498,570        | 16.198,284    |
| 590                             | 0,589       | 675,478           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,880              | 13.510,450        | 16.212,540    |
| 591                             | 0,599       | 676,077           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,980              | 13.522,430        | 16.226,916    |
| 592                             | 0,599       | 676,676           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,880              | 13.534,310        | 16.241,172    |
| 593                             | 0,589       | 677,265           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,570              | 13.545,880        | 16.255,056    |
| 594                             | 0,568       | 677,833           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,040              | 13.556,920        | 16.268,304    |
| 595                             | 0,536       | 678,369           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,880              | 13.567,800        | 16.281,360    |
| 596                             | 0,552       | 678,921           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,040              | 13.578,840        | 16.294,608    |
| 597                             | 0,552       | 679,473           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,990              | 13.589,830        | 16.307,796    |
| 598                             | 0,547       | 680,020           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,730              | 13.600,560        | 16.320,672    |
| 599                             | 0,526       | 680,546           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,260              | 13.610,820        | 16.332,984    |
| 600                             | 0,500       | 681,046           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,730              | 13.623,550        | 16.348,260    |
| 601                             | 0,773       | 681,819           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 24,730              | 13.648,280        | 16.377,936    |
| 602                             | 1,700       | 683,519           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 51,090              | 13.699,370        | 16.439,244    |
| 603                             | 3,409       | 686,928           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 45,320              | 13.744,690        | 16.493,628    |
| 604                             | 1,123       | 688,051           |                    | -                   | -                 | -             |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 28,550              | 13.773,240        | 16.527,888    |
| 605                             | 1,732       | 689,783           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 34,610              | 13.807,850        | 16.569,420    |
| 606                             | 1,729       | 691,512           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 45,770              | 13.853,620        | 16.624,344    |
| 607                             | 2,848       | 694,360           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 40,910              | 13.894,530        | 16.673,436    |
| 608                             | 1,243       | 695,603           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 18,740              | 13.913,270        | 16.695,924    |
| 609                             | 0,631       | 696,234           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,950              | 13.924,220        | 16.709,064    |
| 610                             | 0,464       | 696,698           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,170               | 13.933,390        | 16.720,068    |
| 611                             | 0,453       | 697,151           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,060               | 13.942,450        | 16.730,940    |
| 612                             | 0,453       | 697,604           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,110               | 13.951,560        | 16.741,872    |
| 613                             | 0,458       | 698,062           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,320               | 13.960,880        | 16.753,056    |
| 614                             | 0,474       | 698,536           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,690               | 13.970,570        | 16.764,684    |
| 615                             | 0,495       | 699,031           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,590               | 13.980,160        | 16.776,192    |
| 616                             | 0,464       | 699,495           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,070               | 13.989,230        | 16.787,076    |
| 617                             | 0,443       | 699,938           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,700               | 13.997,930        | 16.797,516    |
| 618                             | 0,427       | 700,365           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,490               | 14.006,420        | 16.807,704    |
| 619                             | 0,422       | 700,787           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,490               | 14.014,910        | 16.817,892    |
| 620                             | 0,427       | 701,214           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,650               | 14.023,560        | 16.828,272    |
| 621                             | 0,438       | 701,652           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,960               | 14.032,520        | 16.839,024    |
| 622                             | 0,458       | 702,110           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,480               | 14.042,000        | 16.850,400    |
| 623                             | 0,490       | 702,600           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,640               | 14.051,640        | 16.861,968    |
| 624                             | 0,474       | 703,074           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,430               | 14.061,070        | 16.873,284    |
| 625                             | 0,469       | 703,543           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,380               | 14.070,450        | 16.884,540    |
| 626                             | 0,469       | 704,012           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,480               | 14.079,930        | 16.895,916    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 627                             | 0,479       | 704,491           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,790       | 14.089,720        | 16.907,664          |
| 628                             | 0,500       | 704,991           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,040      | 14.101,760        | 16.922,112          |
| 629                             | 0,704       | 705,695           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 19,960      | 14.121,720        | 16.946,064          |
| 630                             | 1,292       | 706,987           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 36,030      | 14.157,750        | 16.989,300          |
| 631                             | 2,311       | 709,298           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 61,430      | 14.219,180        | 17.063,016          |
| 632                             | 3,832       | 713,130           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 48,770      | 14.267,950        | 17.121,540          |
| 633                             | 1,045       | 714,175           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 22,320      | 14.290,270        | 17.148,324          |
| 634                             | 1,187       | 715,362           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 31,600      | 14.321,870        | 17.186,244          |
| 635                             | 1,973       | 717,335           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 37,350      | 14.359,220        | 17.231,064          |
| 636                             | 1,762       | 719,097           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 31,110      | 14.390,330        | 17.268,396          |
| 637                             | 1,349       | 720,446           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 43,740      | 14.434,070        | 17.320,884          |
| 638                             | 3,025       | 723,471           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 45,840      | 14.479,910        | 17.375,892          |
| 639                             | 1,559       | 725,030           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 23,320      | 14.503,230        | 17.403,876          |
| 640                             | 0,773       | 725,803           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,990      | 14.516,220        | 17.419,464          |
| 641                             | 0,526       | 726,329           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,360      | 14.526,580        | 17.431,896          |
| 642                             | 0,510       | 726,839           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,100      | 14.536,680        | 17.444,016          |
| 643                             | 0,500       | 727,339           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,000      | 14.546,680        | 17.456,016          |
| 644                             | 0,500       | 727,839           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,100      | 14.556,780        | 17.468,136          |
| 645                             | 0,510       | 728,349           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,360      | 14.567,140        | 17.480,568          |
| 646                             | 0,526       | 728,875           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,680      | 14.577,820        | 17.493,384          |
| 647                             | 0,542       | 729,417           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,840      | 14.588,660        | 17.506,392          |
| 648                             | 0,542       | 729,959           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,730      | 14.599,390        | 17.519,268          |
| 649                             | 0,531       | 730,490           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 10,360              | 14.609,750        | 17.531,700    |
| 650                             | 0,505       | 730,995           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,740               | 14.619,490        | 17.543,388    |
| 651                             | 0,469       | 731,464           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,860               | 14.628,350        | 17.554,020    |
| 652                             | 0,417       | 731,881           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,720               | 14.636,070        | 17.563,284    |
| 653                             | 0,355       | 732,236           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,670               | 14.643,740        | 17.572,488    |
| 654                             | 0,412       | 732,648           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,700               | 14.652,440        | 17.582,928    |
| 655                             | 0,458       | 733,106           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,530               | 14.661,970        | 17.594,364    |
| 656                             | 0,495       | 733,601           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,050              | 14.672,020        | 17.606,424    |
| 657                             | 0,510       | 734,111           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,310              | 14.682,330        | 17.618,796    |
| 658                             | 0,521       | 734,632           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,370              | 14.692,700        | 17.631,240    |
| 659                             | 0,516       | 735,148           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,110              | 14.702,810        | 17.643,372    |
| 660                             | 0,495       | 735,643           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,430              | 14.716,240        | 17.659,488    |
| 661                             | 0,848       | 736,491           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,680              | 14.744,920        | 17.693,904    |
| 662                             | 2,020       | 738,511           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 32,260              | 14.777,180        | 17.732,616    |
| 663                             | 1,206       | 739,717           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,010              | 14.805,190        | 17.766,228    |
| 664                             | 1,595       | 741,312           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 35,770              | 14.840,960        | 17.809,152    |
| 665                             | 1,982       | 743,294           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,630              | 14.872,590        | 17.847,108    |
| 666                             | 1,181       | 744,475           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 30,870              | 14.903,460        | 17.884,152    |
| 667                             | 1,906       | 746,381           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 38,200              | 14.941,660        | 17.929,992    |
| 668                             | 1,914       | 748,295           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,100              | 14.972,760        | 17.967,312    |
| 669                             | 1,196       | 749,491           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 30,190              | 15.002,950        | 18.003,540    |
| 670                             | 1,823       | 751,314           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 36,430              | 15.039,380        | 18.047,256    |
| 671                             | 1,820       | 753,134           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 42,730              | 15.082,110        | 18.098,532    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 672                             | 2,453       | 755,587           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 30,210      | 15.112,320        | 18.134,784          |
| 673                             | 0,568       | 756,155           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,950       | 15.122,270        | 18.146,724          |
| 674                             | 0,427       | 756,582           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,720       | 15.129,990        | 18.155,988          |
| 675                             | 0,345       | 756,927           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,640       | 15.136,630        | 18.163,956          |
| 676                             | 0,319       | 757,246           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,280       | 15.142,910        | 18.171,492          |
| 677                             | 0,309       | 757,555           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 5,970       | 15.148,880        | 18.178,656          |
| 678                             | 0,288       | 757,843           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,330       | 15.155,210        | 18.186,252          |
| 679                             | 0,345       | 758,188           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,310       | 15.162,520        | 18.195,024          |
| 680                             | 0,386       | 758,574           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,080       | 15.170,600        | 18.204,720          |
| 681                             | 0,422       | 758,996           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,600       | 15.179,200        | 18.215,040          |
| 682                             | 0,438       | 759,434           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,810       | 15.188,010        | 18.225,612          |
| 683                             | 0,443       | 759,877           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,810       | 15.196,820        | 18.236,184          |
| 684                             | 0,438       | 760,315           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,550       | 15.205,370        | 18.246,444          |
| 685                             | 0,417       | 760,732           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,030       | 15.213,400        | 18.256,080          |
| 686                             | 0,386       | 761,118           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,260       | 15.220,660        | 18.264,792          |
| 687                             | 0,340       | 761,458           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,160       | 15.227,820        | 18.273,384          |
| 688                             | 0,376       | 761,834           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,720       | 15.235,540        | 18.282,648          |
| 689                             | 0,396       | 762,230           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,030       | 15.243,570        | 18.292,284          |
| 690                             | 0,407       | 762,637           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,080       | 15.251,650        | 18.301,980          |
| 691                             | 0,401       | 763,038           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,920       | 15.259,570        | 18.311,484          |
| 692                             | 0,391       | 763,429           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,610       | 15.267,180        | 18.320,616          |
| 693                             | 0,370       | 763,799           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,200       | 15.274,380        | 18.329,256          |
| 694                             | 0,350       | 764,149           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 7,100               | 15.281,480        | 18.337,776    |
| 695                             | 0,360       | 764,509           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,300               | 15.288,780        | 18.346,536    |
| 696                             | 0,370       | 764,879           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,400               | 15.296,180        | 18.355,416    |
| 697                             | 0,370       | 765,249           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,400               | 15.303,580        | 18.364,296    |
| 698                             | 0,370       | 765,619           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,350               | 15.310,930        | 18.373,116    |
| 699                             | 0,365       | 765,984           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,150               | 15.318,080        | 18.381,696    |
| 700                             | 0,350       | 766,334           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 6,840               | 15.324,920        | 18.389,904    |
| 701                             | 0,334       | 766,668           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 6,480               | 15.331,400        | 18.397,680    |
| 702                             | 0,314       | 766,982           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 6,640               | 15.338,040        | 18.405,648    |
| 703                             | 0,350       | 767,332           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,260               | 15.345,300        | 18.414,360    |
| 704                             | 0,376       | 767,708           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,770               | 15.353,070        | 18.423,684    |
| 705                             | 0,401       | 768,109           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,230               | 15.361,300        | 18.433,560    |
| 706                             | 0,422       | 768,531           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,600               | 15.369,900        | 18.443,880    |
| 707                             | 0,438       | 768,969           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,860               | 15.378,760        | 18.454,512    |
| 708                             | 0,448       | 769,417           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,010               | 15.387,770        | 18.465,324    |
| 709                             | 0,453       | 769,870           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,270               | 15.397,040        | 18.476,448    |
| 710                             | 0,474       | 770,344           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,640               | 15.406,680        | 18.488,016    |
| 711                             | 0,490       | 770,834           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,900               | 15.416,580        | 18.499,896    |
| 712                             | 0,500       | 771,334           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,050              | 15.426,630        | 18.511,956    |
| 713                             | 0,505       | 771,839           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,100              | 15.436,730        | 18.524,076    |
| 714                             | 0,505       | 772,344           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,050              | 15.446,780        | 18.536,136    |
| 715                             | 0,500       | 772,844           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,900               | 15.456,680        | 18.548,016    |
| 716                             | 0,490       | 773,334           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,950               | 15.466,630        | 18.559,956    |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 717                             | 0,505       | 773,839           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,210      | 15.476,840        | 18.572,208          |
| 718                             | 0,516       | 774,355           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,370      | 15.487,210        | 18.584,652          |
| 719                             | 0,521       | 774,876           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,420      | 15.497,630        | 18.597,156          |
| 720                             | 0,521       | 775,397           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,370      | 15.508,000        | 18.609,600          |
| 721                             | 0,516       | 775,913           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,260      | 15.518,260        | 18.621,912          |
| 722                             | 0,510       | 776,423           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,050      | 15.528,310        | 18.633,972          |
| 723                             | 0,495       | 776,918           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,110      | 15.538,420        | 18.646,104          |
| 724                             | 0,516       | 777,434           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 15.548,890        | 18.658,668          |
| 725                             | 0,531       | 777,965           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,780      | 15.559,670        | 18.671,604          |
| 726                             | 0,547       | 778,512           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,990      | 15.570,660        | 18.684,792          |
| 727                             | 0,552       | 779,064           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,040      | 15.581,700        | 18.698,040          |
| 728                             | 0,552       | 779,616           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,040      | 15.592,740        | 18.711,288          |
| 729                             | 0,552       | 780,168           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,940      | 15.603,680        | 18.724,416          |
| 730                             | 0,542       | 780,710           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,730      | 15.614,410        | 18.737,292          |
| 731                             | 0,531       | 781,241           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,100      | 15.624,510        | 18.749,412          |
| 732                             | 0,479       | 781,720           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,060       | 15.633,570        | 18.760,284          |
| 733                             | 0,427       | 782,147           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,920       | 15.641,490        | 18.769,788          |
| 734                             | 0,365       | 782,512           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,790       | 15.648,280        | 18.777,936          |
| 735                             | 0,314       | 782,826           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 5,970       | 15.654,250        | 18.785,100          |
| 736                             | 0,283       | 783,109           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 5,510       | 15.659,760        | 18.791,712          |
| 737                             | 0,268       | 783,377           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 5,460       | 15.665,220        | 18.798,264          |
| 738                             | 0,278       | 783,655           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 5,820       | 15.671,040        | 18.805,248          |
| 739                             | 0,304       | 783,959           |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 6,590               | 15.677,630        | 18.813,156    |
| 740                             | 0,355       | 784,314           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,770               | 15.685,400        | 18.822,480    |
| 741                             | 0,422       | 784,736           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,320               | 15.694,720        | 18.833,664    |
| 742                             | 0,510       | 785,246           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,000              | 15.704,720        | 18.845,664    |
| 743                             | 0,490       | 785,736           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,850               | 15.714,570        | 18.857,484    |
| 744                             | 0,495       | 786,231           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,160              | 15.724,730        | 18.869,676    |
| 745                             | 0,521       | 786,752           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,900              | 15.738,630        | 18.886,356    |
| 746                             | 0,869       | 787,621           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 27,620              | 15.766,250        | 18.919,500    |
| 747                             | 1,893       | 789,514           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 56,290              | 15.822,540        | 18.987,048    |
| 748                             | 3,736       | 793,250           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 53,530              | 15.876,070        | 19.051,284    |
| 749                             | 1,617       | 794,867           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 29,900              | 15.905,970        | 19.087,164    |
| 750                             | 1,373       | 796,240           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 27,880              | 15.933,850        | 19.120,620    |
| 751                             | 1,415       | 797,655           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 48,800              | 15.982,650        | 19.179,180    |
| 752                             | 3,465       | 801,120           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 51,760              | 16.034,410        | 19.241,292    |
| 753                             | 1,711       | 802,831           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 26,070              | 16.060,480        | 19.272,576    |
| 754                             | 0,896       | 803,727           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 15,580              | 16.076,060        | 19.291,272    |
| 755                             | 0,662       | 804,389           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 14,090              | 16.090,150        | 19.308,180    |
| 756                             | 0,747       | 805,136           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 19,080              | 16.109,230        | 19.331,076    |
| 757                             | 1,161       | 806,297           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 36,200              | 16.145,430        | 19.374,516    |
| 758                             | 2,459       | 808,756           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 39,520              | 16.184,950        | 19.421,940    |
| 759                             | 1,493       | 810,249           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,350              | 16.216,300        | 19.459,560    |
| 760                             | 1,642       | 811,891           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,560              | 16.247,860        | 19.497,432    |
| 761                             | 1,514       | 813,405           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 38,900              | 16.286,760        | 19.544,112    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 762                             | 2,376       | 815,781           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 31,490      | 16.318,250        | 19.581,900          |
| 763                             | 0,773       | 816,554           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,130      | 16.329,380        | 19.595,256          |
| 764                             | 0,340       | 816,894           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,830       | 16.337,210        | 19.604,652          |
| 765                             | 0,443       | 817,337           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,950       | 16.347,160        | 19.616,592          |
| 766                             | 0,552       | 817,889           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,620      | 16.357,780        | 19.629,336          |
| 767                             | 0,510       | 818,399           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,890       | 16.367,670        | 19.641,204          |
| 768                             | 0,479       | 818,878           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,430       | 16.377,100        | 19.652,520          |
| 769                             | 0,464       | 819,342           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,220       | 16.386,320        | 19.663,584          |
| 770                             | 0,458       | 819,800           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,220       | 16.395,540        | 19.674,648          |
| 771                             | 0,464       | 820,264           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,430       | 16.404,970        | 19.685,964          |
| 772                             | 0,479       | 820,743           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,890       | 16.414,860        | 19.697,832          |
| 773                             | 0,510       | 821,253           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,100      | 16.424,960        | 19.709,952          |
| 774                             | 0,500       | 821,753           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,000      | 16.434,960        | 19.721,952          |
| 775                             | 0,500       | 822,253           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,530      | 16.448,490        | 19.738,188          |
| 776                             | 0,853       | 823,106           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,810      | 16.476,300        | 19.771,560          |
| 777                             | 1,928       | 825,034           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 58,300      | 16.534,600        | 19.841,520          |
| 778                             | 3,902       | 828,936           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 49,270      | 16.583,870        | 19.900,644          |
| 779                             | 1,025       | 829,961           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,960      | 16.612,830        | 19.935,396          |
| 780                             | 1,871       | 831,832           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 34,370      | 16.647,200        | 19.976,640          |
| 781                             | 1,566       | 833,398           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 48,750      | 16.695,950        | 20.035,140          |
| 782                             | 3,309       | 836,707           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 48,910      | 16.744,860        | 20.093,832          |
| 783                             | 1,582       | 838,289           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 26,120      | 16.770,980        | 20.125,176          |
| 784                             | 1,030       | 839,319           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 20,440      | 16.791,420        | 20.149,704          |
| 785                             | 1,014       | 840,333           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 20,230      | 16.811,650        | 20.173,980          |
| 786                             | 1,009       | 841,342           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 20,230      | 16.831,880        | 20.198,256          |
| 787                             | 1,014       | 842,356           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 20,500      | 16.852,380        | 20.222,856          |
| 788                             | 1,036       | 843,392           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 21,040      | 16.873,420        | 20.248,104          |
| 789                             | 1,068       | 844,460           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 21,850      | 16.895,270        | 20.274,324          |
| 790                             | 1,117       | 845,577           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 22,890      | 16.918,160        | 20.301,792          |
| 791                             | 1,172       | 846,749           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 24,150      | 16.942,310        | 20.330,772          |
| 792                             | 1,243       | 847,992           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 25,740      | 16.968,050        | 20.361,660          |
| 793                             | 1,331       | 849,323           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,560      | 16.995,610        | 20.394,732          |
| 794                             | 1,425       | 850,748           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,620      | 17.025,230        | 20.430,276          |
| 795                             | 1,537       | 852,285           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 31,970      | 17.057,200        | 20.468,640          |
| 796                             | 1,660       | 853,945           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 34,560      | 17.091,760        | 20.510,112          |
| 797                             | 1,796       | 855,741           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 44,630      | 17.136,390        | 20.563,668          |
| 798                             | 2,667       | 858,408           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 38,520      | 17.174,910        | 20.609,892          |
| 799                             | 1,185       | 859,593           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 31,370      | 17.206,280        | 20.647,536          |
| 800                             | 1,952       | 861,545           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 39,200      | 17.245,480        | 20.694,576          |
| 801                             | 1,968       | 863,513           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 41,620      | 17.287,100        | 20.744,520          |
| 802                             | 2,194       | 865,707           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 31,060      | 17.318,160        | 20.781,792          |
| 803                             | 0,912       | 866,619           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,650      | 17.331,810        | 20.798,172          |
| 804                             | 0,453       | 867,072           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,030       | 17.339,840        | 20.807,808          |
| 805                             | 0,350       | 867,422           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,880       | 17.347,720        | 20.817,264          |
| 806                             | 0,438       | 867,860           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,640       | 17.357,360        | 20.828,832          |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 807                             | 0,526       | 868,386           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,250      | 17.368,610        | 20.842,332          |
| 808                             | 0,599       | 868,985           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,610      | 17.381,220        | 20.857,464          |
| 809                             | 0,662       | 869,647           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,720      | 17.394,940        | 20.873,928          |
| 810                             | 0,710       | 870,357           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,510      | 17.409,450        | 20.891,340          |
| 811                             | 0,741       | 871,098           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,040      | 17.424,490        | 20.909,388          |
| 812                             | 0,763       | 871,861           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,360      | 17.439,850        | 20.927,820          |
| 813                             | 0,773       | 872,634           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,410      | 17.455,260        | 20.946,312          |
| 814                             | 0,768       | 873,402           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,150      | 17.470,410        | 20.964,492          |
| 815                             | 0,747       | 874,149           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,620      | 17.485,030        | 20.982,036          |
| 816                             | 0,715       | 874,864           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,880      | 17.498,910        | 20.998,692          |
| 817                             | 0,673       | 875,537           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,830      | 17.511,740        | 21.014,088          |
| 818                             | 0,610       | 876,147           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,520      | 17.523,260        | 21.027,912          |
| 819                             | 0,542       | 876,689           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,410      | 17.534,670        | 21.041,604          |
| 820                             | 0,599       | 877,288           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,510      | 17.547,180        | 21.056,616          |
| 821                             | 0,652       | 877,940           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,350      | 17.560,530        | 21.072,636          |
| 822                             | 0,683       | 878,623           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,870      | 17.574,400        | 21.089,280          |
| 823                             | 0,704       | 879,327           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,190      | 17.588,590        | 21.106,308          |
| 824                             | 0,715       | 880,042           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,250      | 17.602,840        | 21.123,408          |
| 825                             | 0,710       | 880,752           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,040      | 17.616,880        | 21.140,256          |
| 826                             | 0,694       | 881,446           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,560      | 17.630,440        | 21.156,528          |
| 827                             | 0,662       | 882,108           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,770      | 17.643,210        | 21.171,852          |
| 828                             | 0,615       | 882,723           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 17.654,930        | 21.185,916          |
| 829                             | 0,557       | 883,280           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 10,410      | 17.665,340        | 21.198,408          |
| 830                             | 0,484       | 883,764           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,150      | 17.676,490        | 21.211,788          |
| 831                             | 0,631       | 884,395           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 18,740      | 17.695,230        | 21.234,276          |
| 832                             | 1,243       | 885,638           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 36,130      | 17.731,360        | 21.277,632          |
| 833                             | 2,370       | 888,008           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 40,100      | 17.771,460        | 21.325,752          |
| 834                             | 1,640       | 889,648           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 34,750      | 17.806,210        | 21.367,452          |
| 835                             | 1,835       | 891,483           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 35,530      | 17.841,740        | 21.410,088          |
| 836                             | 1,718       | 893,201           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 36,710      | 17.878,450        | 21.454,140          |
| 837                             | 1,953       | 895,154           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 32,250      | 17.910,700        | 21.492,840          |
| 838                             | 1,272       | 896,426           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,890      | 17.940,590        | 21.528,708          |
| 839                             | 1,717       | 898,143           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 28,210      | 17.968,800        | 21.562,560          |
| 840                             | 1,104       | 899,247           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 23,710      | 17.992,510        | 21.591,012          |
| 841                             | 1,267       | 900,514           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 34,320      | 18.026,830        | 21.632,196          |
| 842                             | 2,165       | 902,679           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,590      | 18.056,420        | 21.667,704          |
| 843                             | 0,794       | 903,473           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,540      | 18.067,960        | 21.681,552          |
| 844                             | 0,360       | 903,833           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,100       | 18.075,060        | 21.690,072          |
| 845                             | 0,350       | 904,183           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,970       | 18.084,030        | 21.700,836          |
| 846                             | 0,547       | 904,730           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,990      | 18.095,020        | 21.714,024          |
| 847                             | 0,552       | 905,282           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,040      | 18.106,060        | 21.727,272          |
| 848                             | 0,552       | 905,834           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,940      | 18.117,000        | 21.740,400          |
| 849                             | 0,542       | 906,376           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,730      | 18.127,730        | 21.753,276          |
| 850                             | 0,531       | 906,907           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 18.138,200        | 21.765,840          |
| 851                             | 0,516       | 907,423           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,110      | 18.148,310        | 21.777,972          |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
| 852                             | 0,495       | 907,918           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,690               | 18.158,000        | 21.789,600    |
| 853                             | 0,474       | 908,392           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,690               | 18.167,690        | 21.801,228    |
| 854                             | 0,495       | 908,887           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,110              | 18.177,800        | 21.813,360    |
| 855                             | 0,516       | 909,403           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,470              | 18.188,270        | 21.825,924    |
| 856                             | 0,531       | 909,934           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,730              | 18.199,000        | 21.838,800    |
| 857                             | 0,542       | 910,476           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,890              | 18.209,890        | 21.851,868    |
| 858                             | 0,547       | 911,023           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,940              | 18.220,830        | 21.864,996    |
| 859                             | 0,547       | 911,570           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,940              | 18.231,770        | 21.878,124    |
| 860                             | 0,547       | 912,117           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,830              | 18.242,600        | 21.891,120    |
| 861                             | 0,536       | 912,653           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,620              | 18.253,220        | 21.903,864    |
| 862                             | 0,526       | 913,179           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,360              | 18.263,580        | 21.916,296    |
| 863                             | 0,510       | 913,689           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,310              | 18.273,890        | 21.928,668    |
| 864                             | 0,521       | 914,210           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,470              | 18.284,360        | 21.941,232    |
| 865                             | 0,526       | 914,736           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 18.294,930        | 21.953,916    |
| 866                             | 0,531       | 915,267           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 18.305,500        | 21.966,600    |
| 867                             | 0,526       | 915,793           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,470              | 18.315,970        | 21.979,164    |
| 868                             | 0,521       | 916,314           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,310              | 18.326,280        | 21.991,536    |
| 869                             | 0,510       | 916,824           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,050              | 18.336,330        | 22.003,596    |
| 870                             | 0,495       | 917,319           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,910              | 18.350,240        | 22.020,288    |
| 871                             | 0,896       | 918,215           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 31,020              | 18.381,260        | 22.057,512    |
| 872                             | 2,206       | 920,421           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 38,720              | 18.419,980        | 22.103,976    |
| 873                             | 1,666       | 922,087           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 33,100              | 18.453,080        | 22.143,696    |
| 874                             | 1,644       | 923,731           |                    | -                   | -                 | -             |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 27,930              | 18.481,010        | 22.177,212    |
| 875                             | 1,149       | 924,880           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 25,840              | 18.506,850        | 22.208,220    |
| 876                             | 1,435       | 926,315           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 28,440              | 18.535,290        | 22.242,348    |
| 877                             | 1,409       | 927,724           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 35,220              | 18.570,510        | 22.284,612    |
| 878                             | 2,113       | 929,837           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 32,250              | 18.602,760        | 22.323,312    |
| 879                             | 1,112       | 930,949           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 18,530              | 18.621,290        | 22.345,548    |
| 880                             | 0,741       | 931,690           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,720              | 18.634,010        | 22.360,812    |
| 881                             | 0,531       | 932,221           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,000              | 18.644,010        | 22.372,812    |
| 882                             | 0,469       | 932,690           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,480               | 18.653,490        | 22.384,188    |
| 883                             | 0,479       | 933,169           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,630               | 18.663,120        | 22.395,744    |
| 884                             | 0,484       | 933,653           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,680               | 18.672,800        | 22.407,360    |
| 885                             | 0,484       | 934,137           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,680               | 18.682,480        | 22.418,976    |
| 886                             | 0,484       | 934,621           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,580               | 18.692,060        | 22.430,472    |
| 887                             | 0,474       | 935,095           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,380               | 18.701,440        | 22.441,728    |
| 888                             | 0,464       | 935,559           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,120               | 18.710,560        | 22.452,672    |
| 889                             | 0,448       | 936,007           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,750               | 18.719,310        | 22.463,172    |
| 890                             | 0,427       | 936,434           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,340               | 18.727,650        | 22.473,180    |
| 891                             | 0,407       | 936,841           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,830               | 18.735,480        | 22.482,576    |
| 892                             | 0,376       | 937,217           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,260               | 18.742,740        | 22.491,288    |
| 893                             | 0,350       | 937,567           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 6,840               | 18.749,580        | 22.499,496    |
| 894                             | 0,334       | 937,901           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,380               | 18.758,960        | 22.510,752    |
| 895                             | 0,604       | 938,505           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 20,740              | 18.779,700        | 22.535,640    |
| 896                             | 1,470       | 939,975           |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 45,010              | 18.824,710        | 22.589,652    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 897                             | 3,031       | 943,006           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 45,100      | 18.869,810        | 22.643,772          |
| 898                             | 1,479       | 944,485           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 25,390      | 18.895,200        | 22.674,240          |
| 899                             | 1,060       | 945,545           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 24,120      | 18.919,320        | 22.703,184          |
| 900                             | 1,352       | 946,897           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 27,540      | 18.946,860        | 22.736,232          |
| 901                             | 1,402       | 948,299           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 24,260      | 18.971,120        | 22.765,344          |
| 902                             | 1,024       | 949,323           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 46,270      | 19.017,390        | 22.820,868          |
| 903                             | 3,603       | 952,926           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 55,710      | 19.073,100        | 22.887,720          |
| 904                             | 1,968       | 954,894           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 29,120      | 19.102,220        | 22.922,664          |
| 905                             | 0,944       | 955,838           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,920      | 19.116,140        | 22.939,368          |
| 906                             | 0,448       | 956,286           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,700       | 19.124,840        | 22.949,808          |
| 907                             | 0,422       | 956,708           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,530      | 19.135,370        | 22.962,444          |
| 908                             | 0,631       | 957,339           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,090      | 19.147,460        | 22.976,952          |
| 909                             | 0,578       | 957,917           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,140      | 19.158,600        | 22.990,320          |
| 910                             | 0,536       | 958,453           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,460      | 19.169,060        | 23.002,872          |
| 911                             | 0,510       | 958,963           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,000      | 19.179,060        | 23.014,872          |
| 912                             | 0,490       | 959,453           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,690       | 19.188,750        | 23.026,500          |
| 913                             | 0,479       | 959,932           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,580       | 19.198,330        | 23.037,996          |
| 914                             | 0,479       | 960,411           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,690       | 19.208,020        | 23.049,624          |
| 915                             | 0,490       | 960,901           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,000      | 19.218,020        | 23.061,624          |
| 916                             | 0,510       | 961,411           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,630       | 19.227,650        | 23.073,180          |
| 917                             | 0,453       | 961,864           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,650       | 19.236,300        | 23.083,560          |
| 918                             | 0,412       | 962,276           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,930       | 19.244,230        | 23.093,076          |
| 919                             | 0,381       | 962,657           |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 7,410       | 19.251,640        | 23.101,968          |
| 920                             | 0,360       | 963,017           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,050       | 19.258,690        | 23.110,428          |
| 921                             | 0,345       | 963,362           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,900       | 19.265,590        | 23.118,708          |
| 922                             | 0,345       | 963,707           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,000       | 19.272,590        | 23.127,108          |
| 923                             | 0,355       | 964,062           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,250       | 19.279,840        | 23.135,808          |
| 924                             | 0,370       | 964,432           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,710       | 19.287,550        | 23.145,060          |
| 925                             | 0,401       | 964,833           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,390       | 19.295,940        | 23.155,128          |
| 926                             | 0,438       | 965,271           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,280       | 19.305,220        | 23.166,264          |
| 927                             | 0,490       | 965,761           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,430       | 19.314,650        | 23.177,580          |
| 928                             | 0,453       | 966,214           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,800       | 19.323,450        | 23.188,140          |
| 929                             | 0,427       | 966,641           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,390       | 19.331,840        | 23.198,208          |
| 930                             | 0,412       | 967,053           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,240       | 19.340,080        | 23.208,096          |
| 931                             | 0,412       | 967,465           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,290       | 19.348,370        | 23.218,044          |
| 932                             | 0,417       | 967,882           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,490       | 19.356,860        | 23.228,232          |
| 933                             | 0,432       | 968,314           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,900       | 19.365,760        | 23.238,912          |
| 934                             | 0,458       | 968,772           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,530       | 19.375,290        | 23.250,348          |
| 935                             | 0,495       | 969,267           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,260      | 19.385,550        | 23.262,660          |
| 936                             | 0,531       | 969,798           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,880      | 19.396,430        | 23.275,716          |
| 937                             | 0,557       | 970,355           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,300      | 19.407,730        | 23.289,276          |
| 938                             | 0,573       | 970,928           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,560      | 19.419,290        | 23.303,148          |
| 939                             | 0,583       | 971,511           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 19.431,010        | 23.317,212          |
| 940                             | 0,589       | 972,100           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 19.442,730        | 23.331,276          |
| 941                             | 0,583       | 972,683           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,610      | 19.454,340        | 23.345,208          |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 942                             | 0,578       | 973,261           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,400      | 19.465,740        | 23.358,888          |
| 943                             | 0,562       | 973,823           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,090      | 19.476,830        | 23.372,196          |
| 944                             | 0,547       | 974,370           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,680      | 19.487,510        | 23.385,012          |
| 945                             | 0,521       | 974,891           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,110      | 19.497,620        | 23.397,144          |
| 946                             | 0,490       | 975,381           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,430       | 19.507,050        | 23.408,460          |
| 947                             | 0,453       | 975,834           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,430       | 19.516,480        | 23.419,776          |
| 948                             | 0,490       | 976,324           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,160      | 19.526,640        | 23.431,968          |
| 949                             | 0,526       | 976,850           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,780      | 19.537,420        | 23.444,904          |
| 950                             | 0,552       | 977,402           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,300      | 19.548,720        | 23.458,464          |
| 951                             | 0,578       | 977,980           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 19.560,440        | 23.472,528          |
| 952                             | 0,594       | 978,574           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,980      | 19.572,420        | 23.486,904          |
| 953                             | 0,604       | 979,178           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,140      | 19.584,560        | 23.501,472          |
| 954                             | 0,610       | 979,788           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,140      | 19.596,700        | 23.516,040          |
| 955                             | 0,604       | 980,392           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,030      | 19.608,730        | 23.530,476          |
| 956                             | 0,599       | 980,991           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,820      | 19.620,550        | 23.544,660          |
| 957                             | 0,583       | 981,574           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,510      | 19.632,060        | 23.558,472          |
| 958                             | 0,568       | 982,142           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,100      | 19.643,160        | 23.571,792          |
| 959                             | 0,542       | 982,684           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,150      | 19.654,310        | 23.585,172          |
| 960                             | 0,573       | 983,257           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 19.666,030        | 23.599,236          |
| 961                             | 0,599       | 983,856           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,140      | 19.678,170        | 23.613,804          |
| 962                             | 0,615       | 984,471           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,460      | 19.690,630        | 23.628,756          |
| 963                             | 0,631       | 985,102           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,670      | 19.703,300        | 23.643,960          |
| 964                             | 0,636       | 985,738           |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 12,770      | 19.716,070        | 23.659,284          |
| 965                             | 0,641       | 986,379           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,770      | 19.728,840        | 23.674,608          |
| 966                             | 0,636       | 987,015           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,610      | 19.741,450        | 23.689,740          |
| 967                             | 0,625       | 987,640           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,350      | 19.753,800        | 23.704,560          |
| 968                             | 0,610       | 988,250           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,930      | 19.765,730        | 23.718,876          |
| 969                             | 0,583       | 988,833           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,400      | 19.777,130        | 23.732,556          |
| 970                             | 0,557       | 989,390           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,780      | 19.787,910        | 23.745,492          |
| 971                             | 0,521       | 989,911           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,890      | 19.798,800        | 23.758,560          |
| 972                             | 0,568       | 990,479           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 19.810,520        | 23.772,624          |
| 973                             | 0,604       | 991,083           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,400      | 19.822,920        | 23.787,504          |
| 974                             | 0,636       | 991,719           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,980      | 19.835,900        | 23.803,080          |
| 975                             | 0,662       | 992,381           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,400      | 19.849,300        | 23.819,160          |
| 976                             | 0,678       | 993,059           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,720      | 19.863,020        | 23.835,624          |
| 977                             | 0,694       | 993,753           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,930      | 19.876,950        | 23.852,340          |
| 978                             | 0,699       | 994,452           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,880      | 19.890,830        | 23.868,996          |
| 979                             | 0,689       | 995,141           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,510      | 19.904,340        | 23.885,208          |
| 980                             | 0,662       | 995,803           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,820      | 19.917,160        | 23.900,592          |
| 981                             | 0,620       | 996,423           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,880      | 19.929,040        | 23.914,848          |
| 982                             | 0,568       | 996,991           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,680      | 19.939,720        | 23.927,664          |
| 983                             | 0,500       | 997,491           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,780      | 19.950,500        | 23.940,600          |
| 984                             | 0,578       | 998,069           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,190      | 19.962,690        | 23.955,228          |
| 985                             | 0,641       | 998,710           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,300      | 19.975,990        | 23.971,188          |
| 986                             | 0,689       | 999,399           |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,090      | 19.990,080        | 23.988,096          |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 987                             | 0,720       | 1.000,119         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,610      | 20.004,690        | 24.005,628          |
| 988                             | 0,741       | 1.000,860         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,880      | 20.019,570        | 24.023,484          |
| 989                             | 0,747       | 1.001,607         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,830      | 20.034,400        | 24.041,280          |
| 990                             | 0,736       | 1.002,343         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,510      | 20.048,910        | 24.058,692          |
| 991                             | 0,715       | 1.003,058         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,930      | 20.062,840        | 24.075,408          |
| 992                             | 0,678       | 1.003,736         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,030      | 20.075,870        | 24.091,044          |
| 993                             | 0,625       | 1.004,361         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,820      | 20.087,690        | 24.105,228          |
| 994                             | 0,557       | 1.004,918         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,820      | 20.099,510        | 24.119,412          |
| 995                             | 0,625       | 1.005,543         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,030      | 20.112,540        | 24.135,048          |
| 996                             | 0,678       | 1.006,221         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,930      | 20.126,470        | 24.151,764          |
| 997                             | 0,715       | 1.006,936         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,560      | 20.141,030        | 24.169,236          |
| 998                             | 0,741       | 1.007,677         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,930      | 20.155,960        | 24.187,152          |
| 999                             | 0,752       | 1.008,429         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,990      | 20.170,950        | 24.205,140          |
| 1000                            | 0,747       | 1.009,176         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,780      | 20.185,730        | 24.222,876          |
| 1001                            | 0,731       | 1.009,907         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,300      | 20.200,030        | 24.240,036          |
| 1002                            | 0,699       | 1.010,606         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,510      | 20.213,540        | 24.256,248          |
| 1003                            | 0,652       | 1.011,258         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,460      | 20.226,000        | 24.271,200          |
| 1004                            | 0,594       | 1.011,852         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,150      | 20.237,150        | 24.284,580          |
| 1005                            | 0,521       | 1.012,373         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,990      | 20.248,140        | 24.297,768          |
| 1006                            | 0,578       | 1.012,951         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,980      | 20.260,120        | 24.312,144          |
| 1007                            | 0,620       | 1.013,571         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,720      | 20.272,840        | 24.327,408          |
| 1008                            | 0,652       | 1.014,223         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,190      | 20.286,030        | 24.343,236          |
| 1009                            | 0,667       | 1.014,890         |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 13,340              | 20.299,370        | 24.359,244    |
| 1010                            | 0,667       | 1.015,557         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,240              | 20.312,610        | 24.375,132    |
| 1011                            | 0,657       | 1.016,214         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,880              | 20.325,490        | 24.390,588    |
| 1012                            | 0,631       | 1.016,845         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,200              | 20.337,690        | 24.405,228    |
| 1013                            | 0,589       | 1.017,434         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,200              | 20.348,890        | 24.418,668    |
| 1014                            | 0,531       | 1.017,965         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,950               | 20.358,840        | 24.430,608    |
| 1015                            | 0,464       | 1.018,429         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,480               | 20.368,320        | 24.441,984    |
| 1016                            | 0,484       | 1.018,913         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,790               | 20.378,110        | 24.453,732    |
| 1017                            | 0,495       | 1.019,408         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,850               | 20.387,960        | 24.465,552    |
| 1018                            | 0,490       | 1.019,898         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,590               | 20.397,550        | 24.477,060    |
| 1019                            | 0,469       | 1.020,367         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,010               | 20.406,560        | 24.487,872    |
| 1020                            | 0,432       | 1.020,799         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,330               | 20.414,890        | 24.497,868    |
| 1021                            | 0,401       | 1.021,200         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,870               | 20.422,760        | 24.507,312    |
| 1022                            | 0,386       | 1.021,586         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,770               | 20.430,530        | 24.516,636    |
| 1023                            | 0,391       | 1.021,977         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,080               | 20.438,610        | 24.526,332    |
| 1024                            | 0,417       | 1.022,394         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,750               | 20.447,360        | 24.536,832    |
| 1025                            | 0,458       | 1.022,852         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,790               | 20.457,150        | 24.548,580    |
| 1026                            | 0,521       | 1.023,373         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,740               | 20.466,890        | 24.560,268    |
| 1027                            | 0,453       | 1.023,826         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,600               | 20.475,490        | 24.570,588    |
| 1028                            | 0,407       | 1.024,233         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,880               | 20.483,370        | 24.580,044    |
| 1029                            | 0,381       | 1.024,614         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,510               | 20.490,880        | 24.589,056    |
| 1030                            | 0,370       | 1.024,984         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,510               | 20.498,390        | 24.598,068    |
| 1031                            | 0,381       | 1.025,365         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,880               | 20.506,270        | 24.607,524    |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 1032                            | 0,407       | 1.025,772         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,600       | 20.514,870        | 24.617,844          |
| 1033                            | 0,453       | 1.026,225         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,740       | 20.524,610        | 24.629,532          |
| 1034                            | 0,521       | 1.026,746         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,310      | 20.534,920        | 24.641,904          |
| 1035                            | 0,510       | 1.027,256         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,310      | 20.545,230        | 24.654,276          |
| 1036                            | 0,521       | 1.027,777         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,160      | 20.555,390        | 24.666,468          |
| 1037                            | 0,495       | 1.028,272         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,850       | 20.565,240        | 24.678,288          |
| 1038                            | 0,490       | 1.028,762         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,950       | 20.575,190        | 24.690,228          |
| 1039                            | 0,505       | 1.029,267         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,790       | 20.584,980        | 24.701,976          |
| 1040                            | 0,474       | 1.029,741         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,380       | 20.594,360        | 24.713,232          |
| 1041                            | 0,464       | 1.030,205         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,330       | 20.603,690        | 24.724,428          |
| 1042                            | 0,469       | 1.030,674         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,640       | 20.613,330        | 24.735,996          |
| 1043                            | 0,495       | 1.031,169         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,640       | 20.622,970        | 24.747,564          |
| 1044                            | 0,469       | 1.031,638         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,270       | 20.632,240        | 24.758,688          |
| 1045                            | 0,458       | 1.032,096         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,270       | 20.641,510        | 24.769,812          |
| 1046                            | 0,469       | 1.032,565         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,640       | 20.651,150        | 24.781,380          |
| 1047                            | 0,495       | 1.033,060         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,850       | 20.661,000        | 24.793,200          |
| 1048                            | 0,490       | 1.033,550         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,950       | 20.670,950        | 24.805,140          |
| 1049                            | 0,505       | 1.034,055         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,890       | 20.680,840        | 24.817,008          |
| 1050                            | 0,484       | 1.034,539         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,680       | 20.690,520        | 24.828,624          |
| 1051                            | 0,484       | 1.035,023         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,840       | 20.700,360        | 24.840,432          |
| 1052                            | 0,500       | 1.035,523         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,530       | 20.709,890        | 24.851,868          |
| 1053                            | 0,453       | 1.035,976         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,800       | 20.718,690        | 24.862,428          |
| 1054                            | 0,427       | 1.036,403         |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 8,440       | 20.727,130        | 24.872,556          |
| 1055                            | 0,417       | 1.036,820         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,440       | 20.735,570        | 24.882,684          |
| 1056                            | 0,427       | 1.037,247         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,800       | 20.744,370        | 24.893,244          |
| 1057                            | 0,453       | 1.037,700         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,530       | 20.753,900        | 24.904,680          |
| 1058                            | 0,500       | 1.038,200         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,430       | 20.763,330        | 24.915,996          |
| 1059                            | 0,443       | 1.038,643         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,440       | 20.771,770        | 24.926,124          |
| 1060                            | 0,401       | 1.039,044         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,820       | 20.779,590        | 24.935,508          |
| 1061                            | 0,381       | 1.039,425         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,570       | 20.787,160        | 24.944,592          |
| 1062                            | 0,376       | 1.039,801         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,670       | 20.794,830        | 24.953,796          |
| 1063                            | 0,391       | 1.040,192         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,180       | 20.803,010        | 24.963,612          |
| 1064                            | 0,427       | 1.040,619         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,060       | 20.812,070        | 24.974,484          |
| 1065                            | 0,479       | 1.041,098         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,150      | 20.822,220        | 24.986,664          |
| 1066                            | 0,536       | 1.041,634         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,190      | 20.833,410        | 25.000,092          |
| 1067                            | 0,583       | 1.042,217         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,030      | 20.845,440        | 25.014,528          |
| 1068                            | 0,620       | 1.042,837         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,660      | 20.858,100        | 25.029,720          |
| 1069                            | 0,646       | 1.043,483         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,030      | 20.871,130        | 25.045,356          |
| 1070                            | 0,657       | 1.044,140         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,190      | 20.884,320        | 25.061,184          |
| 1071                            | 0,662       | 1.044,802         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,190      | 20.897,510        | 25.077,012          |
| 1072                            | 0,657       | 1.045,459         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,980      | 20.910,490        | 25.092,588          |
| 1073                            | 0,641       | 1.046,100         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,510      | 20.923,000        | 25.107,600          |
| 1074                            | 0,610       | 1.046,710         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,830      | 20.934,830        | 25.121,796          |
| 1075                            | 0,573       | 1.047,283         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,990      | 20.945,820        | 25.134,984          |
| 1076                            | 0,526       | 1.047,809         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,040      | 20.956,860        | 25.148,232          |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 1077                            | 0,578       | 1.048,387         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,030      | 20.968,890        | 25.162,668          |
| 1078                            | 0,625       | 1.049,012         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,820      | 20.981,710        | 25.178,052          |
| 1079                            | 0,657       | 1.049,669         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,350      | 20.995,060        | 25.194,072          |
| 1080                            | 0,678       | 1.050,347         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,720      | 21.008,780        | 25.210,536          |
| 1081                            | 0,694       | 1.051,041         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,880      | 21.022,660        | 25.227,192          |
| 1082                            | 0,694       | 1.051,735         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,770      | 21.036,430        | 25.243,716          |
| 1083                            | 0,683       | 1.052,418         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,500      | 21.049,930        | 25.259,916          |
| 1084                            | 0,667       | 1.053,085         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,030      | 21.062,960        | 25.275,552          |
| 1085                            | 0,636       | 1.053,721         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,300      | 21.075,260        | 25.290,312          |
| 1086                            | 0,594       | 1.054,315         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,360      | 21.086,620        | 25.303,944          |
| 1087                            | 0,542       | 1.054,857         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,210      | 21.096,830        | 25.316,196          |
| 1088                            | 0,479       | 1.055,336         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,210      | 21.107,040        | 25.328,448          |
| 1089                            | 0,542       | 1.055,878         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,360      | 21.118,400        | 25.342,080          |
| 1090                            | 0,594       | 1.056,472         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,300      | 21.130,700        | 25.356,840          |
| 1091                            | 0,636       | 1.057,108         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,030      | 21.143,730        | 25.372,476          |
| 1092                            | 0,667       | 1.057,775         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,560      | 21.157,290        | 25.388,748          |
| 1093                            | 0,689       | 1.058,464         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,880      | 21.171,170        | 25.405,404          |
| 1094                            | 0,699       | 1.059,163         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,980      | 21.185,150        | 25.422,180          |
| 1095                            | 0,699       | 1.059,862         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,820      | 21.198,970        | 25.438,764          |
| 1096                            | 0,683       | 1.060,545         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,450      | 21.212,420        | 25.454,904          |
| 1097                            | 0,662       | 1.061,207         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,930      | 21.225,350        | 25.470,420          |
| 1098                            | 0,631       | 1.061,838         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,140      | 21.237,490        | 25.484,988          |
| 1099                            | 0,583       | 1.062,421         |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 11,140      | 21.248,630        | 25.498,356          |
| 1100                            | 0,531       | 1.062,952         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,250      | 21.259,880        | 25.511,856          |
| 1101                            | 0,594       | 1.063,546         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,350      | 21.272,230        | 25.526,676          |
| 1102                            | 0,641       | 1.064,187         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,240      | 21.285,470        | 25.542,564          |
| 1103                            | 0,683       | 1.064,870         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,930      | 21.299,400        | 25.559,280          |
| 1104                            | 0,710       | 1.065,580         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,360      | 21.313,760        | 25.576,512          |
| 1105                            | 0,726       | 1.066,306         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,620      | 21.328,380        | 25.594,056          |
| 1106                            | 0,736       | 1.067,042         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,670      | 21.343,050        | 25.611,660          |
| 1107                            | 0,731       | 1.067,773         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,460      | 21.357,510        | 25.629,012          |
| 1108                            | 0,715       | 1.068,488         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,040      | 21.371,550        | 25.645,860          |
| 1109                            | 0,689       | 1.069,177         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,460      | 21.385,010        | 25.662,012          |
| 1110                            | 0,657       | 1.069,834         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,670      | 21.397,680        | 25.677,216          |
| 1111                            | 0,610       | 1.070,444         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,620      | 21.409,300        | 25.691,160          |
| 1112                            | 0,552       | 1.070,996         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,680      | 21.419,980        | 25.703,976          |
| 1113                            | 0,516       | 1.071,512         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,850       | 21.429,830        | 25.715,796          |
| 1114                            | 0,469       | 1.071,981         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,910       | 21.438,740        | 25.726,488          |
| 1115                            | 0,422       | 1.072,403         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,130       | 21.446,870        | 25.736,244          |
| 1116                            | 0,391       | 1.072,794         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,560       | 21.454,430        | 25.745,316          |
| 1117                            | 0,365       | 1.073,159         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,250       | 21.461,680        | 25.754,016          |
| 1118                            | 0,360       | 1.073,519         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,200       | 21.468,880        | 25.762,656          |
| 1119                            | 0,360       | 1.073,879         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,360       | 21.476,240        | 25.771,488          |
| 1120                            | 0,376       | 1.074,255         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,770       | 21.484,010        | 25.780,812          |
| 1121                            | 0,401       | 1.074,656         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,440       | 21.492,450        | 25.790,940          |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 1122                            | 0,443       | 1.075,099         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,330       | 21.501,780        | 25.802,136          |
| 1123                            | 0,490       | 1.075,589         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 21.512,250        | 25.814,700          |
| 1124                            | 0,557       | 1.076,146         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,410      | 21.522,660        | 25.827,192          |
| 1125                            | 0,484       | 1.076,630         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,110       | 21.531,770        | 25.838,124          |
| 1126                            | 0,427       | 1.077,057         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,080       | 21.539,850        | 25.847,820          |
| 1127                            | 0,381       | 1.077,438         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,310       | 21.547,160        | 25.856,592          |
| 1128                            | 0,350       | 1.077,788         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,740       | 21.553,900        | 25.864,680          |
| 1129                            | 0,324       | 1.078,112         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,430       | 21.560,330        | 25.872,396          |
| 1130                            | 0,319       | 1.078,431         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,380       | 21.566,710        | 25.880,052          |
| 1131                            | 0,319       | 1.078,750         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,530       | 21.573,240        | 25.887,888          |
| 1132                            | 0,334       | 1.079,084         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,940       | 21.580,180        | 25.896,216          |
| 1133                            | 0,360       | 1.079,444         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,610       | 21.587,790        | 25.905,348          |
| 1134                            | 0,401       | 1.079,845         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,490       | 21.596,280        | 25.915,536          |
| 1135                            | 0,448       | 1.080,293         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,640       | 21.605,920        | 25.927,104          |
| 1136                            | 0,516       | 1.080,809         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,690       | 21.615,610        | 25.938,732          |
| 1137                            | 0,453       | 1.081,262         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,600       | 21.624,210        | 25.949,052          |
| 1138                            | 0,407       | 1.081,669         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,770       | 21.631,980        | 25.958,376          |
| 1139                            | 0,370       | 1.082,039         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,200       | 21.639,180        | 25.967,016          |
| 1140                            | 0,350       | 1.082,389         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,840       | 21.646,020        | 25.975,224          |
| 1141                            | 0,334       | 1.082,723         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,740       | 21.652,760        | 25.983,312          |
| 1142                            | 0,340       | 1.083,063         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,900       | 21.659,660        | 25.991,592          |
| 1143                            | 0,350       | 1.083,413         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,260       | 21.666,920        | 26.000,304          |
| 1144                            | 0,376       | 1.083,789         |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 7,880               | 21.674,800        | 26.009,760    |
| 1145                            | 0,412       | 1.084,201         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,760               | 21.683,560        | 26.020,272    |
| 1146                            | 0,464       | 1.084,665         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,850               | 21.693,410        | 26.032,092    |
| 1147                            | 0,521       | 1.085,186         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,950               | 21.703,360        | 26.044,032    |
| 1148                            | 0,474       | 1.085,660         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,060               | 21.712,420        | 26.054,904    |
| 1149                            | 0,432       | 1.086,092         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,390               | 21.720,810        | 26.064,972    |
| 1150                            | 0,407       | 1.086,499         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,980               | 21.728,790        | 26.074,548    |
| 1151                            | 0,391       | 1.086,890         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,820               | 21.736,610        | 26.083,932    |
| 1152                            | 0,391       | 1.087,281         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 7,870               | 21.744,480        | 26.093,376    |
| 1153                            | 0,396       | 1.087,677         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,180               | 21.752,660        | 26.103,192    |
| 1154                            | 0,422       | 1.088,099         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 8,750               | 21.761,410        | 26.113,692    |
| 1155                            | 0,453       | 1.088,552         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,530               | 21.770,940        | 26.125,128    |
| 1156                            | 0,500       | 1.089,052         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,570              | 21.781,510        | 26.137,812    |
| 1157                            | 0,557       | 1.089,609         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,040              | 21.792,550        | 26.151,060    |
| 1158                            | 0,547       | 1.090,156         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,890              | 21.803,440        | 26.164,128    |
| 1159                            | 0,542       | 1.090,698         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,990              | 21.814,430        | 26.177,316    |
| 1160                            | 0,557       | 1.091,255         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,350              | 21.825,780        | 26.190,936    |
| 1161                            | 0,578       | 1.091,833         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,930              | 21.837,710        | 26.205,252    |
| 1162                            | 0,615       | 1.092,448         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 12,670              | 21.850,380        | 26.220,456    |
| 1163                            | 0,652       | 1.093,100         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,250              | 21.863,630        | 26.236,356    |
| 1164                            | 0,673       | 1.093,773         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,510              | 21.877,140        | 26.252,568    |
| 1165                            | 0,678       | 1.094,451         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,510              | 21.890,650        | 26.268,780    |
| 1166                            | 0,673       | 1.095,124         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 13,300              | 21.903,950        | 26.284,740    |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 1167                            | 0,657       | 1.095,781         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,770      | 21.916,720        | 26.300,064          |
| 1168                            | 0,620       | 1.096,401         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,980      | 21.928,700        | 26.314,440          |
| 1169                            | 0,578       | 1.096,979         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,940      | 21.939,640        | 26.327,568          |
| 1170                            | 0,516       | 1.097,495         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,940      | 21.950,580        | 26.340,696          |
| 1171                            | 0,578       | 1.098,073         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,030      | 21.962,610        | 26.355,132          |
| 1172                            | 0,625       | 1.098,698         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,870      | 21.975,480        | 26.370,576          |
| 1173                            | 0,662       | 1.099,360         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,450      | 21.988,930        | 26.386,716          |
| 1174                            | 0,683       | 1.100,043         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,770      | 22.002,700        | 26.403,240          |
| 1175                            | 0,694       | 1.100,737         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,830      | 22.016,530        | 26.419,836          |
| 1176                            | 0,689       | 1.101,426         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,620      | 22.030,150        | 26.436,180          |
| 1177                            | 0,673       | 1.102,099         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,090      | 22.043,240        | 26.451,888          |
| 1178                            | 0,636       | 1.102,735         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,300      | 22.055,540        | 26.466,648          |
| 1179                            | 0,594       | 1.103,329         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,250      | 22.066,790        | 26.480,148          |
| 1180                            | 0,531       | 1.103,860         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,890       | 22.076,680        | 26.492,016          |
| 1181                            | 0,458       | 1.104,318         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,000      | 22.086,680        | 26.504,016          |
| 1182                            | 0,542       | 1.104,860         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,520      | 22.098,200        | 26.517,840          |
| 1183                            | 0,610       | 1.105,470         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,720      | 22.110,920        | 26.533,104          |
| 1184                            | 0,662       | 1.106,132         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,660      | 22.124,580        | 26.549,496          |
| 1185                            | 0,704       | 1.106,836         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,350      | 22.138,930        | 26.566,716          |
| 1186                            | 0,731       | 1.107,567         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,720      | 22.153,650        | 26.584,380          |
| 1187                            | 0,741       | 1.108,308         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,820      | 22.168,470        | 26.602,164          |
| 1188                            | 0,741       | 1.109,049         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,720      | 22.183,190        | 26.619,828          |
| 1189                            | 0,731       | 1.109,780         |                    | -           | -                 | -                   |

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Prefeitura Municipal de Caracarái

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 14,300      | 22.197,490        | 26.636,988          |
| 1190                            | 0,699       | 1.110,479         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,610      | 22.211,100        | 26.653,320          |
| 1191                            | 0,662       | 1.111,141         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,660      | 22.223,760        | 26.668,512          |
| 1192                            | 0,604       | 1.111,745         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,400      | 22.235,160        | 26.682,192          |
| 1193                            | 0,536       | 1.112,281         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,460      | 22.246,620        | 26.695,944          |
| 1194                            | 0,610       | 1.112,891         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,830      | 22.259,450        | 26.711,340          |
| 1195                            | 0,673       | 1.113,564         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 13,930      | 22.273,380        | 26.728,056          |
| 1196                            | 0,720       | 1.114,284         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,770      | 22.288,150        | 26.745,780          |
| 1197                            | 0,757       | 1.115,041         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,360      | 22.303,510        | 26.764,212          |
| 1198                            | 0,779       | 1.115,820         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,680      | 22.319,190        | 26.783,028          |
| 1199                            | 0,789       | 1.116,609         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,680      | 22.334,870        | 26.801,844          |
| 1200                            | 0,779       | 1.117,388         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 15,420      | 22.350,290        | 26.820,348          |
| 1201                            | 0,763       | 1.118,151         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,890      | 22.365,180        | 26.838,216          |
| 1202                            | 0,726       | 1.118,877         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 14,040      | 22.379,220        | 26.855,064          |
| 1203                            | 0,678       | 1.119,555         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 12,980      | 22.392,200        | 26.870,640          |
| 1204                            | 0,620       | 1.120,175         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,670      | 22.403,870        | 26.884,644          |
| 1205                            | 0,547       | 1.120,722         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 22.414,340        | 26.897,208          |
| 1206                            | 0,500       | 1.121,222         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,530       | 22.423,870        | 26.908,644          |
| 1207                            | 0,453       | 1.121,675         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,650       | 22.432,520        | 26.919,024          |
| 1208                            | 0,412       | 1.122,087         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,980       | 22.440,500        | 26.928,600          |
| 1209                            | 0,386       | 1.122,473         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,460       | 22.447,960        | 26.937,552          |
| 1210                            | 0,360       | 1.122,833         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,100       | 22.455,060        | 26.946,072          |
| 1211                            | 0,350       | 1.123,183         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,950       | 22.462,010        | 26.954,412          |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 1212                            | 0,345       | 1.123,528         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 6,950       | 22.468,960        | 26.962,752          |
| 1213                            | 0,350       | 1.123,878         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,150       | 22.476,110        | 26.971,332          |
| 1214                            | 0,365       | 1.124,243         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,510       | 22.483,620        | 26.980,344          |
| 1215                            | 0,386       | 1.124,629         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,030       | 22.491,650        | 26.989,980          |
| 1216                            | 0,417       | 1.125,046         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,750       | 22.500,400        | 27.000,480          |
| 1217                            | 0,458       | 1.125,504         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,110       | 22.509,510        | 27.011,412          |
| 1218                            | 0,453       | 1.125,957         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,110       | 22.518,620        | 27.022,344          |
| 1219                            | 0,458       | 1.126,415         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,320       | 22.527,940        | 27.033,528          |
| 1220                            | 0,474       | 1.126,889         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,690       | 22.537,630        | 27.045,156          |
| 1221                            | 0,495       | 1.127,384         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,210      | 22.547,840        | 27.057,408          |
| 1222                            | 0,526       | 1.127,910         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,210      | 22.558,050        | 27.069,660          |
| 1223                            | 0,495       | 1.128,405         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,640       | 22.567,690        | 27.081,228          |
| 1224                            | 0,469       | 1.128,874         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,270       | 22.576,960        | 27.092,352          |
| 1225                            | 0,458       | 1.129,332         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,060       | 22.586,020        | 27.103,224          |
| 1226                            | 0,448       | 1.129,780         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,010       | 22.595,030        | 27.114,036          |
| 1227                            | 0,453       | 1.130,233         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,170       | 22.604,200        | 27.125,040          |
| 1228                            | 0,464       | 1.130,697         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,480       | 22.613,680        | 27.136,416          |
| 1229                            | 0,484       | 1.131,181         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,530       | 22.623,210        | 27.147,852          |
| 1230                            | 0,469       | 1.131,650         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,380       | 22.632,590        | 27.159,108          |
| 1231                            | 0,469       | 1.132,119         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,380       | 22.641,970        | 27.170,364          |
| 1232                            | 0,469       | 1.132,588         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,530       | 22.651,500        | 27.181,800          |
| 1233                            | 0,484       | 1.133,072         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,890       | 22.661,390        | 27.193,668          |
| 1234                            | 0,505       | 1.133,577         |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
|                                 |             | -                 | 10,000             | 10,410      | 22.671,800        | 27.206,160          |
| 1235                            | 0,536       | 1.134,113         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,520      | 22.682,320        | 27.218,784          |
| 1236                            | 0,516       | 1.134,629         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,160      | 22.692,480        | 27.230,976          |
| 1237                            | 0,500       | 1.135,129         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,950       | 22.702,430        | 27.242,916          |
| 1238                            | 0,495       | 1.135,624         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,950       | 22.712,380        | 27.254,856          |
| 1239                            | 0,500       | 1.136,124         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,100      | 22.722,480        | 27.266,976          |
| 1240                            | 0,510       | 1.136,634         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,410      | 22.732,890        | 27.279,468          |
| 1241                            | 0,531       | 1.137,165         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,410      | 22.743,300        | 27.291,960          |
| 1242                            | 0,510       | 1.137,675         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,050      | 22.753,350        | 27.304,020          |
| 1243                            | 0,495       | 1.138,170         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,850       | 22.763,200        | 27.315,840          |
| 1244                            | 0,490       | 1.138,660         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,850       | 22.773,050        | 27.327,660          |
| 1245                            | 0,495       | 1.139,155         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,000      | 22.783,050        | 27.339,660          |
| 1246                            | 0,505       | 1.139,660         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,360      | 22.793,410        | 27.352,092          |
| 1247                            | 0,531       | 1.140,191         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 22.803,880        | 27.364,656          |
| 1248                            | 0,516       | 1.140,707         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,320      | 22.814,200        | 27.377,040          |
| 1249                            | 0,516       | 1.141,223         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,370      | 22.824,570        | 27.389,484          |
| 1250                            | 0,521       | 1.141,744         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 22.835,040        | 27.402,048          |
| 1251                            | 0,526       | 1.142,270         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 22.845,510        | 27.414,612          |
| 1252                            | 0,521       | 1.142,791         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,310      | 22.855,820        | 27.426,984          |
| 1253                            | 0,510       | 1.143,301         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,360      | 22.866,180        | 27.439,416          |
| 1254                            | 0,526       | 1.143,827         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,620      | 22.876,800        | 27.452,160          |
| 1255                            | 0,536       | 1.144,363         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,720      | 22.887,520        | 27.465,024          |
| 1256                            | 0,536       | 1.144,899         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,620      | 22.898,140        | 27.477,768          |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 1257                            | 0,526       | 1.145,425         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,360      | 22.908,500        | 27.490,200          |
| 1258                            | 0,510       | 1.145,935         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,890       | 22.918,390        | 27.502,068          |
| 1259                            | 0,479       | 1.146,414         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,840       | 22.928,230        | 27.513,876          |
| 1260                            | 0,505       | 1.146,919         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,260      | 22.938,490        | 27.526,188          |
| 1261                            | 0,521       | 1.147,440         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 22.948,960        | 27.538,752          |
| 1262                            | 0,526       | 1.147,966         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,470      | 22.959,430        | 27.551,316          |
| 1263                            | 0,521       | 1.148,487         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,310      | 22.969,740        | 27.563,688          |
| 1264                            | 0,510       | 1.148,997         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,940       | 22.979,680        | 27.575,616          |
| 1265                            | 0,484       | 1.149,481         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,100      | 22.989,780        | 27.587,736          |
| 1266                            | 0,526       | 1.150,007         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,830      | 23.000,610        | 27.600,732          |
| 1267                            | 0,557       | 1.150,564         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,350      | 23.011,960        | 27.614,352          |
| 1268                            | 0,578       | 1.151,142         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,720      | 23.023,680        | 27.628,416          |
| 1269                            | 0,594       | 1.151,736         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,880      | 23.035,560        | 27.642,672          |
| 1270                            | 0,594       | 1.152,330         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,830      | 23.047,390        | 27.656,868          |
| 1271                            | 0,589       | 1.152,919         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,620      | 23.059,010        | 27.670,812          |
| 1272                            | 0,573       | 1.153,492         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,200      | 23.070,210        | 27.684,252          |
| 1273                            | 0,547       | 1.154,039         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,990      | 23.081,200        | 27.697,440          |
| 1274                            | 0,552       | 1.154,591         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,040      | 23.092,240        | 27.710,688          |
| 1275                            | 0,552       | 1.155,143         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,880      | 23.103,120        | 27.723,744          |
| 1276                            | 0,536       | 1.155,679         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,520      | 23.113,640        | 27.736,368          |
| 1277                            | 0,516       | 1.156,195         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,630      | 23.124,270        | 27.749,124          |
| 1278                            | 0,547       | 1.156,742         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 11,150      | 23.135,420        | 27.762,504          |
| 1279                            | 0,568       | 1.157,310         |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |                     |                   |               |
|---------------------------------|-------------|-------------------|--------------------|---------------------|-------------------|---------------|
| DMT de 200 a 400                |             | P= 6,00           |                    | Empolamento: 20,00% |                   |               |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume              |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³)         | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 11,510              | 23.146,930        | 27.776,316    |
| 1280                            | 0,583       | 1.157,893         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,660              | 23.158,590        | 27.790,308    |
| 1281                            | 0,583       | 1.158,476         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,610              | 23.170,200        | 27.804,240    |
| 1282                            | 0,578       | 1.159,054         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,400              | 23.181,600        | 27.817,920    |
| 1283                            | 0,562       | 1.159,616         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,980              | 23.192,580        | 27.831,096    |
| 1284                            | 0,536       | 1.160,152         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,880              | 23.203,460        | 27.844,152    |
| 1285                            | 0,552       | 1.160,704         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,140              | 23.214,600        | 27.857,520    |
| 1286                            | 0,562       | 1.161,266         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,190              | 23.225,790        | 27.870,948    |
| 1287                            | 0,557       | 1.161,823         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,040              | 23.236,830        | 27.884,196    |
| 1288                            | 0,547       | 1.162,370         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,730              | 23.247,560        | 27.897,072    |
| 1289                            | 0,526       | 1.162,896         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,730              | 23.258,290        | 27.909,948    |
| 1290                            | 0,547       | 1.163,443         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,090              | 23.269,380        | 27.923,256    |
| 1291                            | 0,562       | 1.164,005         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,240              | 23.280,620        | 27.936,744    |
| 1292                            | 0,562       | 1.164,567         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 11,190              | 23.291,810        | 27.950,172    |
| 1293                            | 0,557       | 1.165,124         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,990              | 23.302,800        | 27.963,360    |
| 1294                            | 0,542       | 1.165,666         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,730              | 23.313,530        | 27.976,236    |
| 1295                            | 0,531       | 1.166,197         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,780              | 23.324,310        | 27.989,172    |
| 1296                            | 0,547       | 1.166,744         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,420              | 23.334,730        | 28.001,676    |
| 1297                            | 0,495       | 1.167,239         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,640               | 23.344,370        | 28.013,244    |
| 1298                            | 0,469       | 1.167,708         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,330               | 23.353,700        | 28.024,440    |
| 1299                            | 0,464       | 1.168,172         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 9,480               | 23.363,180        | 28.035,816    |
| 1300                            | 0,484       | 1.168,656         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,050              | 23.373,230        | 28.047,876    |
| 1301                            | 0,521       | 1.169,177         |                    | -                   | -                 | -             |
|                                 |             | -                 | 10,000             | 10,110              | 23.383,340        | 28.060,008    |

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Prefeitura Municipal de Caracaraí

| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |                     |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        |                   | Empolamento: 20,00% |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |                     |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³)       |
| 1302                            | 0,490       | 1.169,667         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,690       | 23.393,030        | 28.071,636          |
| 1303                            | 0,479       | 1.170,146         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,740       | 23.402,770        | 28.083,324          |
| 1304                            | 0,495       | 1.170,641         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,260      | 23.413,030        | 28.095,636          |
| 1305                            | 0,531       | 1.171,172         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 10,050      | 23.423,080        | 28.107,696          |
| 1306                            | 0,474       | 1.171,646         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,120       | 23.432,200        | 28.118,640          |
| 1307                            | 0,438       | 1.172,084         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,600       | 23.440,800        | 28.128,960          |
| 1308                            | 0,422       | 1.172,506         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,540       | 23.449,340        | 28.139,208          |
| 1309                            | 0,432       | 1.172,938         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,960       | 23.458,300        | 28.149,960          |
| 1310                            | 0,464       | 1.173,402         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,800       | 23.468,100        | 28.161,720          |
| 1311                            | 0,516       | 1.173,918         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,850       | 23.477,950        | 28.173,540          |
| 1312                            | 0,469       | 1.174,387         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,120       | 23.487,070        | 28.184,484          |
| 1313                            | 0,443       | 1.174,830         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,810       | 23.495,880        | 28.195,056          |
| 1314                            | 0,438       | 1.175,268         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,910       | 23.504,790        | 28.205,748          |
| 1315                            | 0,453       | 1.175,721         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,430       | 23.514,220        | 28.217,064          |
| 1316                            | 0,490       | 1.176,211         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,170       | 23.523,390        | 28.228,068          |
| 1317                            | 0,427       | 1.176,638         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,130       | 23.531,520        | 28.237,824          |
| 1318                            | 0,386       | 1.177,024         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,560       | 23.539,080        | 28.246,896          |
| 1319                            | 0,370       | 1.177,394         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,400       | 23.546,480        | 28.255,776          |
| 1320                            | 0,370       | 1.177,764         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 7,660       | 23.554,140        | 28.264,968          |
| 1321                            | 0,396       | 1.178,160         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,390       | 23.562,530        | 28.275,036          |
| 1322                            | 0,443       | 1.178,603         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 9,590       | 23.572,120        | 28.286,544          |
| 1323                            | 0,516       | 1.179,119         |                    | -           | -                 | -                   |
|                                 |             | -                 | 10,000             | 8,610       | 23.580,730        | 28.296,876          |
| 1324                            | 0,345       | 1.179,464         |                    | -           | -                 | -                   |

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| TERRAPLENAGEM - MAPA DE CUBAÇÃO |             |                   |                    |             |                   |               |
|---------------------------------|-------------|-------------------|--------------------|-------------|-------------------|---------------|
| DMT de                          | 200 a 400   |                   | P=                 | 6,00        | Empolamento:      | 20,00%        |
| Estacas                         | Área        |                   | Semi-Distância (m) | Volume      |                   |               |
|                                 | Aterro (m²) | Acum. Aterro (m²) |                    | Aterro (m³) | Acum. Aterro (m³) | Empolado (m³) |
|                                 |             | -                 | 10,000             | 5,470       | 23.586,200        | 28.303,440    |
| 1325                            | 0,202       | 1.179,666         |                    |             | -                 | -             |

| ÁREA DEGRADADA A SER RECUPERADA |                      |                              |           |            |             |
|---------------------------------|----------------------|------------------------------|-----------|------------|-------------|
| Volume Explorado (m³)           | Camada Explorada (m) | Volume de Regularização (m³) |           |            |             |
|                                 |                      | Larg. (m)                    | Comp. (m) | Altura (m) | Volume (m³) |
| 27.124,13                       | 1,00                 | 164,69                       | 164,69    | 0,20       | 5.424,00    |

  
Marcelo Baraúna Bento  
Engenheiro Civil  
Crea nº 910.295 - RR  
Fiscalização PMC