

# Relatório do volume

**Projeto: Avenida Rio de Janeiro**

Alinhamento: AVENIDA RIO DE JANEIRO

Estaca inicial: 0+000.000

Estaca final: 53+016.692

| <u>Estaca</u> | <u>Área de corte</u><br><u>(metros quadrados)</u> | <u>Volume de corte</u><br><u>(metros cúbicos)</u> | <u>Volume reutilizável</u><br><u>(metros cúbicos)</u> | <u>Área de aterro</u><br><u>(metros quadrados)</u> | <u>Volume de aterro</u><br><u>(metros cúbicos)</u> | <u>Vol. corte acumul.</u><br><u>(metros cúbicos)</u> | <u>Vol. reutilizável acumul.</u><br><u>(metros cúbicos)</u> | <u>Vol. aterro acumul.</u><br><u>(metros cúbicos)</u> | <u>Vol. líquido acumul.</u><br><u>(metros cúbicos)</u> |
|---------------|---------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|
| 0+000.000     | 9.79                                              | 0.00                                              | 0.00                                                  | 0.00                                               | 0.00                                               | 0.00                                                 | 0.00                                                        | 0.00                                                  | 0.00                                                   |
| 1+000.000     | 3.76                                              | 135.49                                            | 135.49                                                | 0.01                                               | 0.14                                               | 135.49                                               | 135.49                                                      | 0.14                                                  | 135.35                                                 |
| 2+000.000     | 3.90                                              | 76.56                                             | 76.56                                                 | 0.01                                               | 0.23                                               | 212.04                                               | 212.04                                                      | 0.37                                                  | 211.68                                                 |
| 3+000.000     | 2.21                                              | 61.11                                             | 61.11                                                 | 0.34                                               | 3.48                                               | 273.15                                               | 273.15                                                      | 3.84                                                  | 269.31                                                 |
| 4+000.000     | 1.96                                              | 41.70                                             | 41.70                                                 | 0.25                                               | 5.92                                               | 314.86                                               | 314.86                                                      | 9.76                                                  | 305.10                                                 |
| 5+000.000     | 1.51                                              | 34.72                                             | 34.72                                                 | 0.63                                               | 8.86                                               | 349.58                                               | 349.58                                                      | 18.62                                                 | 330.96                                                 |
| 6+000.000     | 2.25                                              | 37.68                                             | 37.68                                                 | 0.77                                               | 14.00                                              | 387.26                                               | 387.26                                                      | 32.62                                                 | 354.64                                                 |
| 6+140.000     | 2.40                                              | 46.50                                             | 46.50                                                 | 0.53                                               | 12.94                                              | 433.76                                               | 433.76                                                      | 45.56                                                 | 388.20                                                 |
| 7+007.622     | 2.56                                              | 18.91                                             | 18.91                                                 | 0.44                                               | 3.68                                               | 452.67                                               | 452.67                                                      | 49.24                                                 | 403.43                                                 |
| 7+019.012     | 2.82                                              | 30.64                                             | 30.64                                                 | 0.31                                               | 4.25                                               | 483.31                                               | 483.31                                                      | 53.49                                                 | 429.81                                                 |
| 8+000.000     | 2.84                                              | 2.79                                              | 2.79                                                  | 0.30                                               | 0.30                                               | 486.10                                               | 486.10                                                      | 53.79                                                 | 432.31                                                 |
| 8+010.401     | 3.36                                              | 32.26                                             | 32.26                                                 | 0.25                                               | 2.83                                               | 518.36                                               | 518.36                                                      | 56.62                                                 | 461.74                                                 |
| 9+000.000     | 2.83                                              | 29.75                                             | 29.75                                                 | 0.33                                               | 2.78                                               | 548.11                                               | 548.11                                                      | 59.40                                                 | 488.72                                                 |
| 10+000.000    | 2.39                                              | 52.21                                             | 52.21                                                 | 0.57                                               | 9.01                                               | 600.33                                               | 600.33                                                      | 68.41                                                 | 531.92                                                 |
| 11+000.000    | 1.94                                              | 43.25                                             | 43.25                                                 | 0.81                                               | 13.83                                              | 643.58                                               | 643.58                                                      | 82.24                                                 | 561.34                                                 |

|            |      |        |        |      |       |         |         |        |         |
|------------|------|--------|--------|------|-------|---------|---------|--------|---------|
| 12+000.000 | 1.49 | 34.27  | 34.27  | 1.09 | 19.04 | 677.85  | 677.85  | 101.28 | 576.57  |
| 13+000.000 | 1.00 | 24.92  | 24.92  | 1.38 | 24.71 | 702.77  | 702.77  | 125.99 | 576.78  |
| 13+017.749 | 1.60 | 23.08  | 23.08  | 1.14 | 22.41 | 725.85  | 725.85  | 148.40 | 577.45  |
| 13+017.803 | 1.30 | 0.08   | 0.08   | 1.14 | 0.06  | 725.92  | 725.92  | 148.46 | 577.46  |
| 13+017.857 | 1.30 | 0.07   | 0.07   | 1.14 | 0.06  | 726.00  | 726.00  | 148.52 | 577.47  |
| 14+000.000 | 1.35 | 2.85   | 2.85   | 1.11 | 2.41  | 728.84  | 728.84  | 150.94 | 577.90  |
| 15+000.000 | 1.83 | 31.83  | 31.83  | 0.84 | 19.50 | 760.67  | 760.67  | 170.44 | 590.23  |
| 15+013.983 | 2.16 | 27.90  | 27.90  | 0.65 | 10.43 | 788.57  | 788.57  | 180.86 | 607.71  |
| 16+000.000 | 2.31 | 13.44  | 13.44  | 0.58 | 3.70  | 802.01  | 802.01  | 184.56 | 617.45  |
| 17+000.000 | 3.08 | 53.83  | 53.83  | 0.33 | 9.03  | 855.84  | 855.84  | 193.59 | 662.25  |
| 18+000.000 | 3.32 | 63.93  | 63.93  | 0.15 | 4.74  | 919.77  | 919.77  | 198.33 | 721.44  |
| 18+008.118 | 3.54 | 27.81  | 27.81  | 0.08 | 0.93  | 947.58  | 947.58  | 199.26 | 748.32  |
| 19+000.000 | 4.41 | 47.22  | 47.22  | 0.00 | 0.48  | 994.80  | 994.80  | 199.75 | 795.06  |
| 20+000.000 | 4.90 | 93.15  | 93.15  | 0.00 | 0.00  | 1087.95 | 1087.95 | 199.75 | 888.21  |
| 21+000.000 | 5.64 | 105.45 | 105.45 | 0.00 | 0.00  | 1193.40 | 1193.40 | 199.75 | 993.65  |
| 22+000.000 | 6.41 | 120.58 | 120.58 | 0.00 | 0.00  | 1313.97 | 1313.97 | 199.75 | 1114.23 |
| 22+003.583 | 6.55 | 23.23  | 23.23  | 0.00 | 0.00  | 1337.21 | 1337.21 | 199.75 | 1137.46 |
| 23+000.000 | 5.72 | 100.74 | 100.74 | 0.00 | 0.00  | 1437.95 | 1437.95 | 199.75 | 1238.20 |
| 24+000.000 | 3.90 | 96.23  | 96.23  | 0.05 | 0.52  | 1534.17 | 1534.17 | 200.26 | 1333.91 |
| 25+000.000 | 2.82 | 67.22  | 67.22  | 0.48 | 5.30  | 1601.40 | 1601.40 | 205.56 | 1395.84 |
| 26+000.000 | 3.04 | 58.59  | 58.59  | 0.35 | 8.24  | 1659.99 | 1659.99 | 213.80 | 1446.19 |
| 27+000.000 | 3.27 | 63.10  | 63.10  | 0.16 | 5.08  | 1723.09 | 1723.09 | 218.88 | 1504.21 |
| 27+017.472 | 3.74 | 61.26  | 61.26  | 0.02 | 1.59  | 1784.35 | 1784.35 | 220.47 | 1563.89 |
| 28+000.000 | 3.81 | 9.55   | 9.55   | 0.01 | 0.04  | 1793.90 | 1793.90 | 220.50 | 1573.40 |
| 29+000.000 | 2.72 | 65.37  | 65.37  | 0.46 | 4.64  | 1859.27 | 1859.27 | 225.14 | 1634.13 |

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|------------|------|-------|-------|------|-------|---------|---------|--------|---------|
| 30+000.000 | 2.28 | 50.06 | 50.06 | 0.99 | 14.50 | 1909.33 | 1909.33 | 239.64 | 1669.69 |
| 31+000.000 | 0.88 | 31.61 | 31.61 | 1.45 | 24.39 | 1940.94 | 1940.94 | 264.03 | 1676.91 |
| 32+000.000 | 1.28 | 21.54 | 21.54 | 1.16 | 26.03 | 1962.48 | 1962.48 | 290.07 | 1672.42 |
| 33+000.000 | 2.05 | 33.24 | 33.24 | 0.88 | 20.39 | 1995.73 | 1995.73 | 310.46 | 1685.27 |
| 34+000.000 | 2.23 | 42.76 | 42.76 | 0.62 | 15.00 | 2038.49 | 2038.49 | 325.46 | 1713.03 |
| 35+000.000 | 2.70 | 49.30 | 49.30 | 0.37 | 9.84  | 2087.79 | 2087.79 | 335.30 | 1752.49 |
| 36+000.000 | 3.05 | 57.51 | 57.51 | 0.31 | 6.78  | 2145.30 | 2145.30 | 342.08 | 1803.21 |
| 37+000.000 | 2.34 | 53.92 | 53.92 | 0.69 | 9.97  | 2199.21 | 2199.21 | 352.05 | 1847.16 |
| 38+000.000 | 1.64 | 39.86 | 39.86 | 1.09 | 17.72 | 2239.07 | 2239.07 | 369.78 | 1869.29 |
| 39+000.000 | 1.28 | 29.21 | 29.21 | 1.44 | 25.27 | 2268.28 | 2268.28 | 395.04 | 1873.24 |
| 40+000.000 | 1.21 | 24.93 | 24.93 | 1.47 | 29.09 | 2293.21 | 2293.21 | 424.13 | 1869.08 |
| 41+000.000 | 1.25 | 24.64 | 24.64 | 1.18 | 26.50 | 2317.84 | 2317.84 | 450.64 | 1867.21 |
| 42+000.000 | 1.71 | 29.63 | 29.63 | 0.90 | 20.85 | 2347.47 | 2347.47 | 471.48 | 1875.99 |
| 43+000.000 | 2.19 | 39.01 | 39.01 | 1.06 | 19.62 | 2386.49 | 2386.49 | 491.10 | 1895.39 |
| 44+000.000 | 2.10 | 42.92 | 42.92 | 3.03 | 40.86 | 2429.41 | 2429.41 | 531.96 | 1897.45 |
| 45+000.000 | 0.38 | 24.88 | 24.88 | 3.08 | 61.04 | 2454.29 | 2454.29 | 593.00 | 1861.30 |
| 46+000.000 | 0.00 | 3.84  | 3.84  | 3.08 | 61.59 | 2458.14 | 2458.14 | 654.59 | 1803.55 |
| 47+000.000 | 0.00 | 0.04  | 0.04  | 2.26 | 53.40 | 2458.17 | 2458.17 | 707.99 | 1750.18 |
| 48+000.000 | 0.44 | 4.41  | 4.41  | 1.79 | 40.46 | 2462.59 | 2462.59 | 748.45 | 1714.14 |
| 49+000.000 | 0.75 | 11.91 | 11.91 | 1.49 | 32.83 | 2474.50 | 2474.50 | 781.28 | 1693.22 |
| 50+000.000 | 1.33 | 20.85 | 20.85 | 1.20 | 26.98 | 2495.35 | 2495.35 | 808.26 | 1687.09 |
| 51+000.000 | 2.24 | 35.72 | 35.72 | 0.90 | 21.02 | 2531.07 | 2531.07 | 829.28 | 1701.80 |
| 52+000.000 | 2.75 | 49.91 | 49.91 | 0.62 | 15.14 | 2580.98 | 2580.98 | 844.41 | 1736.57 |
| 52+001.503 | 2.77 | 4.15  | 4.15  | 0.60 | 0.92  | 2585.13 | 2585.13 | 845.33 | 1739.80 |
| 53+000.000 | 3.31 | 56.18 | 56.18 | 0.41 | 9.32  | 2641.31 | 2641.31 | 854.65 | 1786.66 |

|            |      |       |       |      |      |         |         |        |         |
|------------|------|-------|-------|------|------|---------|---------|--------|---------|
| 53+007.580 | 3.09 | 24.24 | 24.24 | 0.31 | 2.73 | 2665.55 | 2665.55 | 857.38 | 1808.18 |
| 53+012.136 | 3.39 | 14.77 | 14.77 | 0.27 | 1.33 | 2680.32 | 2680.32 | 858.70 | 1821.62 |
| 53+016.692 | 3.05 | 14.67 | 14.67 | 0.23 | 1.14 | 2694.99 | 2694.99 | 859.85 | 1835.15 |



## VERIFICAÇÃO DAS ASSINATURAS



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