

ÍNDICE

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1. TIERRAS

Istram 22.08.08.03 03/11/22 12:21:54 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.08.08.03 03/11/22 12:21:53 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| ***** MEDICIONES DE LOS PERFILES TRANSVERSALES***** | | | | | | | | |
| 423.352 | D TIERRA | 6.730 | 0.00 | 0.0 | ADECUADO COR | 15.366 | 0.00 | 0.0 |
| | SUELO EST 3 | 8.836 | 0.00 | 0.0 | VEGETAL | 0.925 | 0.00 | 0.0 |
| | TERRAPLEN | 13.186 | 0.00 | 0.0 | REV EXT TERR | 2.063 | 0.00 | 0.0 |
| | EXC ESCALONADO | 3.094 | 0.00 | 0.0 | TERR ESCALONADO | 3.094 | 0.00 | 0.0 |
| 440.000 | SANEADO | 2.943 | 1.24 | 1.2 | D TIERRA | 4.519 | 91.04 | 91.0 |
| | ADECUADO COR | 15.366 | 255.81 | 255.8 | SUELO EST 3 | 8.837 | 147.11 | 147.1 |
| | VEGETAL | 0.742 | 14.01 | 14.0 | TERRAPLEN | 18.997 | 270.24 | 270.2 |
| | REV EXT TERR | 2.394 | 35.34 | 35.3 | EXC ESCALONADO | 3.657 | 66.41 | 66.4 |
| | TERR ESCALONADO | 3.657 | 66.41 | 66.4 | | | | |
| 460.000 | SANEADO | 9.613 | 228.17 | 229.4 | D TIERRA | 1.773 | 58.15 | 149.2 |
| | ADECUADO COR | 12.340 | 296.55 | 552.4 | SUELO EST 3 | 7.404 | 171.88 | 319.0 |
| | VEGETAL | 0.000 | 10.78 | 24.8 | MUROS | 0.059 | 0.28 | 0.3 |
| | TERRAPLEN | 43.372 | 614.50 | 884.7 | REV EXT TERR | 0.000 | 40.78 | 76.1 |
| | EXC ESCALONADO | 1.120 | 63.97 | 130.4 | TERR ESCALONADO | 1.120 | 63.97 | 130.4 |
| 480.000 | SANEADO | 12.101 | 77.71 | 307.1 | D TIERRA | 1.939 | 23.81 | 173.0 |
| | ADECUADO COR | 15.367 | 177.09 | 729.4 | SUELO EST 3 | 8.836 | 104.54 | 423.5 |
| | VEGETAL | 0.460 | 3.90 | 28.7 | MUROS | 0.624 | 5.74 | 6.0 |
| | TERRAPLEN | 35.475 | 585.40 | 1470.1 | REV EXT TERR | 1.898 | 9.97 | 86.1 |
| | EXC ESCALONADO | 5.025 | 39.85 | 170.2 | TERR ESCALONADO | 5.025 | 39.85 | 170.2 |
| 500.000 | SANEADO | 11.268 | 248.57 | 555.7 | D TIERRA | 2.294 | 46.61 | 219.6 |
| | ADECUADO COR | 15.716 | 313.88 | 1043.3 | SUELO EST 3 | 9.046 | 180.67 | 604.2 |
| | VEGETAL | 0.481 | 10.08 | 38.8 | MUROS | 0.348 | 9.29 | 15.3 |
| | TERRAPLEN | 23.881 | 552.33 | 2022.5 | REV EXT TERR | 1.654 | 36.22 | 122.3 |
| | EXC ESCALONADO | 2.499 | 61.25 | 231.5 | TERR ESCALONADO | 2.499 | 61.25 | 231.5 |
| 520.000 | SANEADO | 1.900 | 184.80 | 740.5 | D TIERRA | 3.894 | 49.02 | 268.6 |
| | ADECUADO COR | 15.715 | 314.32 | 1357.6 | SUELO EST 3 | 9.047 | 180.93 | 785.1 |
| | VEGETAL | 0.326 | 7.70 | 46.5 | MUROS | 0.320 | 4.12 | 19.4 |
| | TERRAPLEN | 21.293 | 383.23 | 2405.7 | REV EXT TERR | 1.619 | 28.41 | 150.7 |
| | EXC ESCALONADO | 2.174 | 37.86 | 269.3 | TERR ESCALONADO | 2.174 | 37.86 | 269.3 |
| 540.000 | SANEADO | 0.000 | 9.50 | 750.0 | D TIERRA | 4.143 | 79.73 | 348.4 |
| | ADECUADO COR | 15.708 | 314.30 | 1671.9 | SUELO EST 3 | 9.046 | 180.93 | 966.1 |
| | VEGETAL | 0.000 | 4.68 | 51.1 | MUROS | 0.334 | 6.43 | 25.9 |
| | TERRAPLEN | 20.702 | 416.83 | 2822.5 | REV EXT TERR | 1.350 | 29.22 | 179.9 |
| | EXC ESCALONADO | 1.506 | 34.43 | 303.8 | TERR ESCALONADO | 1.506 | 34.43 | 303.8 |
| 560.000 | D TIERRA | 4.328 | 84.81 | 433.2 | ADECUADO COR | 15.708 | 314.11 | 1986.1 |
| | SUELO EST 3 | 9.047 | 180.93 | 1147.0 | MUROS | 0.331 | 6.65 | 32.5 |
| | TERRAPLEN | 19.323 | 399.40 | 3221.9 | REV EXT TERR | 1.330 | 26.70 | 206.7 |
| | EXC ESCALONADO | 1.482 | 29.98 | 333.8 | TERR ESCALONADO | 1.482 | 29.98 | 333.8 |
| 580.000 | D TIERRA | 5.108 | 89.97 | 523.2 | ADECUADO COR | 15.715 | 314.24 | 2300.3 |
| | SUELO EST 3 | 9.046 | 180.93 | 1327.9 | MUROS | 0.378 | 6.87 | 39.4 |
| | TERRAPLEN | 17.591 | 373.41 | 3595.3 | REV EXT TERR | 1.289 | 26.33 | 233.0 |
| | EXC ESCALONADO | 1.527 | 29.34 | 363.1 | TERR ESCALONADO | 1.527 | 29.34 | 363.1 |
| 600.000 | D TIERRA | 6.033 | 107.74 | 630.9 | ADECUADO COR | 15.715 | 314.30 | 2614.6 |
| | SUELO EST 3 | 9.047 | 180.93 | 1508.8 | MUROS | 0.339 | 7.25 | 46.6 |
| | TERRAPLEN | 13.962 | 333.96 | 3929.3 | REV EXT TERR | 1.225 | 25.61 | 258.6 |
| | EXC ESCALONADO | 1.561 | 30.50 | 393.6 | TERR ESCALONADO | 1.561 | 30.50 | 393.6 |
| 620.000 | D TIERRA | 8.681 | 153.77 | 784.7 | ADECUADO COR | 15.715 | 314.32 | 2928.9 |
| | SUELO EST 3 | 9.047 | 180.93 | 1689.8 | MUROS | 0.325 | 6.57 | 53.2 |
| | TERRAPLEN | 7.960 | 184.13 | 4113.4 | REV EXT TERR | 1.053 | 21.91 | 280.5 |
| | EXC ESCALONADO | 1.196 | 23.04 | 416.6 | TERR ESCALONADO | 1.196 | 23.04 | 416.6 |
| 640.000 | D TIERRA | 8.847 | 178.02 | 962.7 | ADECUADO COR | 15.715 | 314.32 | 3243.2 |
| | SUELO EST 3 | 9.047 | 180.93 | 1870.7 | MUROS | 0.326 | 6.40 | 59.6 |
| | TERRAPLEN | 8.140 | 161.02 | 4274.4 | REV EXT TERR | 1.099 | 21.39 | 301.9 |
| | EXC ESCALONADO | 1.291 | 23.58 | 440.2 | TERR ESCALONADO | 1.291 | 23.58 | 440.2 |
| 660.000 | D TIERRA | 10.736 | 195.12 | 1157.8 | ADECUADO COR | 15.716 | 314.32 | 3557.6 |
| | SUELO EST 3 | 9.046 | 180.93 | 2051.6 | MUROS | 0.266 | 6.11 | 65.7 |
| | TERRAPLEN | 7.542 | 163.22 | 4437.7 | REV EXT TERR | 1.066 | 21.76 | 323.7 |
| | EXC ESCALONADO | 0.960 | 22.59 | 462.8 | TERR ESCALONADO | 0.960 | 22.59 | 462.8 |
| 680.000 | D TIERRA | 12.122 | 229.19 | 1387.0 | ADECUADO COR | 15.716 | 314.32 | 3871.9 |
| | SUELO EST 3 | 9.047 | 180.93 | 2232.6 | MUROS | 0.187 | 4.50 | 70.2 |
| | TERRAPLEN | 5.943 | 132.94 | 4570.6 | REV EXT TERR | 1.034 | 20.85 | 344.5 |
| | EXC ESCALONADO | 0.752 | 16.66 | 479.5 | TERR ESCALONADO | 0.752 | 16.66 | 479.5 |
| 700.000 | D TIERRA | 13.131 | 253.82 | 1640.8 | ADECUADO COR | 15.866 | 315.81 | 4187.7 |
| | SUELO EST 3 | 9.137 | 181.93 | 2414.5 | MUROS | 0.000 | 3.00 | 73.2 |
| | TERRAPLEN | 5.006 | 111.35 | 4682.0 | REV EXT TERR | 1.041 | 20.24 | 364.7 |
| | EXC ESCALONADO | 0.680 | 14.04 | 493.5 | TERR ESCALONADO | 0.680 | 14.04 | 493.5 |
| 720.000 | D TIERRA | 14.937 | 277.46 | 1918.3 | ADECUADO COR | 15.716 | 314.69 | 4502.4 |
| | SUELO EST 3 | 9.047 | 181.16 | 2595.6 | TERRAPLEN | 1.742 | 73.59 | 4755.5 |
| | REV EXT TERR | 0.981 | 20.94 | 385.7 | EXC ESCALONADO | 0.617 | 13.83 | 507.3 |
| | TERR ESCALONADO | 0.617 | 13.83 | 507.3 | | | | |
| 740.000 | D TIERRA | 19.146 | 342.06 | 2260.4 | ADECUADO COR | 15.710 | 314.31 | 4816.7 |
| | SUELO EST 3 | 9.047 | 180.93 | 2776.6 | TERRAPLEN | 0.044 | 8.41 | 4764.0 |
| | REV EXT TERR | 0.887 | 18.74 | 404.4 | EXC ESCALONADO | 0.011 | 9.85 | 517.2 |
| | TERR ESCALONADO | 0.011 | 9.85 | 517.2 | | | | |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 760.000 | D TIERRA | 18.151 | 399.31 | 2659.7 | ADECUADO COR | 15.716 | 314.02 | 5130.7 |
| | SUELO EST 3 | 9.047 | 180.93 | 2957.5 | TERRAPLEN | 0.351 | 1.62 | 4765.6 |
| | REV EXT TERR | 0.919 | 17.48 | 421.9 | EXC ESCALONADO | 0.640 | 1.65 | 518.8 |
| | TERR ESCALONADO | 0.640 | 1.65 | 518.8 | | | | |
| 780.000 | D TIERRA | 17.112 | 347.75 | 3007.4 | ADECUADO COR | 15.715 | 314.32 | 5445.0 |
| | SUELO EST 3 | 9.047 | 180.93 | 3138.4 | TERRAPLEN | 1.520 | 22.61 | 4788.2 |
| | REV EXT TERR | 0.905 | 18.81 | 440.7 | EXC ESCALONADO | 0.580 | 12.83 | 531.7 |
| | TERR ESCALONADO | 0.580 | 12.83 | 531.7 | | | | |
| 800.000 | D TIERRA | 18.059 | 354.93 | 3362.3 | ADECUADO COR | 15.714 | 313.93 | 5758.9 |
| | SUELO EST 3 | 9.047 | 180.80 | 3319.2 | MUROS | 0.000 | 0.52 | 73.7 |
| | TERRAPLEN | 0.724 | 19.25 | 4807.4 | REV EXT TERR | 0.920 | 17.52 | 458.2 |
| | EXC ESCALONADO | 0.380 | 9.84 | 541.5 | TERR ESCALONADO | 0.380 | 9.84 | 541.5 |
| 820.000 | D TIERRA | 18.428 | 366.26 | 3728.6 | ADECUADO COR | 15.704 | 314.19 | 6073.1 |
| | SUELO EST 3 | 9.046 | 180.93 | 3500.2 | TERRAPLEN | 0.649 | 11.55 | 4819.0 |
| | REV EXT TERR | 1.026 | 19.49 | 477.7 | EXC ESCALONADO | 0.521 | 8.55 | 550.0 |
| | TERR ESCALONADO | 0.521 | 8.55 | 550.0 | | | | |
| 840.000 | D TIERRA | 18.313 | 366.79 | 4095.4 | ADECUADO COR | 15.699 | 314.03 | 6387.2 |
| | SUELO EST 3 | 9.046 | 180.93 | 3681.1 | VEGETAL | 0.425 | 2.12 | 53.3 |
| | TERRAPLEN | 0.976 | 14.71 | 4833.7 | REV EXT TERR | 1.087 | 21.22 | 498.9 |
| | EXC ESCALONADO | 0.775 | 13.14 | 563.2 | TERR ESCALONADO | 0.775 | 13.14 | 563.2 |
| 860.000 | D TIERRA | 18.691 | 381.41 | 4476.8 | ADECUADO COR | 15.694 | 313.72 | 6700.9 |
| | SUELO EST 3 | 9.047 | 180.93 | 3862.0 | VEGETAL | 0.466 | 8.96 | 62.2 |
| | TERRAPLEN | 3.639 | 29.86 | 4863.6 | REV EXT TERR | 1.094 | 21.55 | 520.5 |
| | EXC ESCALONADO | 1.109 | 15.53 | 578.7 | TERR ESCALONADO | 1.109 | 15.53 | 578.7 |
| 880.000 | D TIERRA | 17.322 | 357.79 | 4834.6 | ADECUADO COR | 15.716 | 314.29 | 7015.2 |
| | SUELO EST 3 | 9.046 | 180.93 | 4043.0 | VEGETAL | 0.472 | 9.79 | 72.0 |
| | TERRAPLEN | 7.369 | 111.29 | 4974.8 | REV EXT TERR | 1.320 | 24.61 | 545.1 |
| | EXC ESCALONADO | 1.168 | 21.98 | 600.7 | TERR ESCALONADO | 1.168 | 21.98 | 600.7 |
| 900.000 | D TIERRA | 17.157 | 344.42 | 5179.0 | ADECUADO COR | 16.016 | 316.57 | 7331.8 |
| | SUELO EST 3 | 9.226 | 182.28 | 4225.2 | VEGETAL | 0.380 | 9.49 | 81.5 |
| | TERRAPLEN | 8.544 | 162.06 | 5136.9 | REV EXT TERR | 1.311 | 26.59 | 571.7 |
| | EXC ESCALONADO | 1.404 | 26.19 | 626.9 | TERR ESCALONADO | 1.404 | 26.19 | 626.9 |
| 920.000 | D TIERRA | 17.748 | 350.71 | 5529.7 | ADECUADO COR | 15.716 | 316.57 | 7648.3 |
| | SUELO EST 3 | 9.047 | 182.28 | 4407.5 | VEGETAL | 0.346 | 7.67 | 89.2 |
| | TERRAPLEN | 8.971 | 169.18 | 5306.1 | REV EXT TERR | 1.448 | 27.43 | 599.1 |
| | EXC ESCALONADO | 1.391 | 26.42 | 653.3 | TERR ESCALONADO | 1.391 | 26.42 | 653.3 |
| 940.000 | D TIERRA | 18.174 | 352.29 | 5882.0 | ADECUADO COR | 15.716 | 314.32 | 7962.6 |
| | SUELO EST 3 | 9.046 | 180.93 | 4588.4 | VEGETAL | 0.427 | 6.19 | 95.4 |
| | TERRAPLEN | 9.739 | 200.67 | 5506.8 | REV EXT TERR | 1.488 | 30.04 | 629.2 |
| | EXC ESCALONADO | 1.638 | 31.65 | 684.9 | TERR ESCALONADO | 1.638 | 31.65 | 684.9 |
| 960.000 | D TIERRA | 18.630 | 372.23 | 6254.2 | ADECUADO COR | 15.716 | 314.32 | 8277.0 |
| | SUELO EST 3 | 9.046 | 180.93 | 4769.4 | VEGETAL | 0.246 | | |

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 PROYECTO :
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 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 1120.000 | SANEO | 15.823 | 314.88 | 1311.7 | D TIERRA | 1.513 | 52.49 | 8079.9 |
| | ADECUADO COR | 15.716 | 314.32 | 10791.5 | SUELO EST 3 | 9.046 | 180.93 | 6216.8 |
| | VEGETAL | 2.240 | 34.30 | 292.9 | TERRAPLEN | 75.499 | 1349.10 | 10535.0 |
| | REV EXT TERR | 3.693 | 66.87 | 1017.6 | EXC ESCALONADO | 7.228 | 120.93 | 1258.6 |
| | TERR ESCALONADO | 7.228 | 120.93 | 1258.6 | | | | |
| 1140.000 | SANEO | 0.015 | 168.96 | 1480.7 | D TIERRA | 0.630 | 20.61 | 8100.5 |
| | ADECUADO COR | 13.502 | 305.28 | 11096.8 | SUELO EST 3 | 8.101 | 177.48 | 6394.3 |
| | VEGETAL | 1.332 | 47.35 | 340.2 | MUROS | 0.185 | 1.10 | 74.8 |
| | TERRAPLEN | 35.924 | 1317.27 | 11852.3 | REV EXT TERR | 0.000 | 58.24 | 1075.9 |
| | EXC ESCALONADO | 4.180 | 133.84 | 1392.5 | TERR ESCALONADO | 4.180 | 133.84 | 1392.5 |
| 1160.000 | SANEO | 0.000 | 11.09 | 1491.8 | D TIERRA | 0.000 | 3.04 | 8103.5 |
| | ADECUADO COR | 0.030 | 74.52 | 11171.3 | SUELO EST 3 | 0.018 | 44.71 | 6439.0 |
| | VEGETAL | 0.014 | 5.46 | 345.7 | MUROS | 0.132 | 1.08 | 75.9 |
| | TERRAPLEN | 0.354 | 229.98 | 12082.3 | EXC ESCALONADO | 0.000 | 24.39 | 1416.9 |
| | TERR ESCALONADO | 0.000 | 24.39 | 1416.9 | | | | |
| 1180.000 | SANEO | 9.487 | 97.27 | 1589.1 | D TIERRA | 0.136 | 1.82 | 8105.4 |
| | ADECUADO COR | 15.366 | 249.12 | 11420.4 | SUELO EST 3 | 8.836 | 147.04 | 6586.0 |
| | VEGETAL | 2.656 | 31.79 | 377.5 | MUROS | 0.000 | 2.04 | 77.9 |
| | TERRAPLEN | 87.659 | 1026.52 | 13108.8 | REV EXT TERR | 5.090 | 33.13 | 1109.0 |
| | EXC ESCALONADO | 11.919 | 158.32 | 1575.2 | TERR ESCALONADO | 11.919 | 158.32 | 1575.2 |
| 1200.000 | SANEO | 10.351 | 194.24 | 1783.3 | D TIERRA | 0.301 | 4.27 | 8109.6 |
| | ADECUADO COR | 15.516 | 309.20 | 11729.6 | SUELO EST 3 | 8.926 | 177.86 | 6763.9 |
| | VEGETAL | 2.589 | 53.96 | 431.5 | TERRAPLEN | 91.567 | 1808.28 | 14917.1 |
| | REV EXT TERR | 5.164 | 102.40 | 1211.4 | EXC ESCALONADO | 10.351 | 229.85 | 1805.0 |
| | TERR ESCALONADO | 10.351 | 229.85 | 1805.0 | | | | |
| 1220.000 | SANEO | 10.922 | 211.30 | 1994.6 | D TIERRA | 0.442 | 7.30 | 8116.9 |
| | ADECUADO COR | 15.366 | 307.69 | 12037.3 | SUELO EST 3 | 8.837 | 176.96 | 6940.9 |
| | VEGETAL | 2.312 | 49.12 | 480.6 | TERRAPLEN | 88.226 | 1779.26 | 16696.3 |
| | REV EXT TERR | 5.123 | 102.55 | 1313.9 | EXC ESCALONADO | 11.160 | 211.52 | 2016.6 |
| | TERR ESCALONADO | 11.160 | 211.52 | 2016.6 | | | | |
| 1240.000 | SANEO | 10.383 | 203.20 | 2197.8 | D TIERRA | 0.655 | 10.73 | 8127.7 |
| | ADECUADO COR | 15.366 | 307.32 | 12344.6 | SUELO EST 3 | 8.836 | 176.73 | 7117.6 |
| | VEGETAL | 2.304 | 47.45 | 528.0 | TERRAPLEN | 86.859 | 1730.96 | 18427.3 |
| | REV EXT TERR | 4.978 | 101.21 | 1415.1 | EXC ESCALONADO | 10.061 | 204.79 | 2221.3 |
| | TERR ESCALONADO | 10.061 | 204.79 | 2221.3 | | | | |
| 1260.000 | SANEO | 0.000 | 59.15 | 2257.0 | D TIERRA | 0.986 | 16.19 | 8143.9 |
| | ADECUADO COR | 15.366 | 307.32 | 12652.0 | SUELO EST 3 | 8.836 | 176.73 | 7294.3 |
| | VEGETAL | 2.107 | 44.47 | 572.5 | TERRAPLEN | 74.849 | 1590.46 | 20017.8 |
| | REV EXT TERR | 4.826 | 98.18 | 1513.3 | EXC ESCALONADO | 7.468 | 166.55 | 2387.9 |
| | TERR ESCALONADO | 7.468 | 166.55 | 2387.9 | | | | |
| 1280.000 | D TIERRA | 1.426 | 24.21 | 8168.1 | ADECUADO COR | 15.016 | 303.82 | 12955.8 |
| | SUELO EST 3 | 8.627 | 174.63 | 7468.9 | VEGETAL | 1.910 | 41.94 | 614.4 |
| | TERRAPLEN | 61.790 | 1369.18 | 21386.9 | REV EXT TERR | 4.140 | 91.43 | 1604.8 |
| | EXC ESCALONADO | 6.254 | 139.64 | 2527.5 | TERR ESCALONADO | 6.254 | 139.64 | 2527.5 |
| 1300.000 | D TIERRA | 2.263 | 35.07 | 8203.1 | ADECUADO COR | 15.016 | 300.32 | 13256.1 |
| | SUELO EST 3 | 8.627 | 172.53 | 7641.5 | VEGETAL | 1.664 | 35.74 | 650.2 |
| | TERRAPLEN | 47.478 | 1120.53 | 22507.5 | REV EXT TERR | 3.247 | 74.35 | 1679.1 |
| | EXC ESCALONADO | 4.571 | 108.76 | 2636.3 | TERR ESCALONADO | 4.571 | 108.76 | 2636.3 |
| 1320.000 | D TIERRA | 4.075 | 61.67 | 8264.8 | ADECUADO COR | 15.016 | 300.32 | 13556.4 |
| | SUELO EST 3 | 8.626 | 172.53 | 7814.0 | VEGETAL | 0.685 | 25.40 | 675.6 |
| | TERRAPLEN | 20.058 | 688.54 | 23196.0 | REV EXT TERR | 1.748 | 52.85 | 1732.0 |
| | EXC ESCALONADO | 2.070 | 68.59 | 2704.9 | TERR ESCALONADO | 2.070 | 68.59 | 2704.9 |
| 1340.000 | D TIERRA | 5.513 | 98.67 | 8363.5 | ADECUADO COR | 15.366 | 303.82 | 13860.2 |
| | SUELO EST 3 | 8.836 | 174.63 | 7988.6 | VEGETAL | 0.483 | 14.30 | 689.9 |
| | TERRAPLEN | 16.131 | 340.72 | 23536.7 | REV EXT TERR | 1.612 | 32.82 | 1764.8 |
| | EXC ESCALONADO | 1.374 | 32.53 | 2737.4 | TERR ESCALONADO | 1.374 | 32.53 | 2737.4 |
| 1360.000 | D TIERRA | 6.771 | 123.32 | 8486.8 | ADECUADO COR | 15.366 | 307.32 | 14167.5 |
| | SUELO EST 3 | 8.836 | 176.73 | 8165.4 | VEGETAL | 1.098 | 23.00 | 712.9 |
| | TERRAPLEN | 16.944 | 337.98 | 23874.7 | REV EXT TERR | 1.634 | 32.62 | 1797.4 |
| | EXC ESCALONADO | 1.784 | 32.26 | 2769.7 | TERR ESCALONADO | 1.784 | 32.26 | 2769.7 |
| 1380.000 | D TIERRA | 7.642 | 144.33 | 8631.1 | ADECUADO COR | 15.366 | 307.32 | 14474.9 |
| | SUELO EST 3 | 8.836 | 176.73 | 8342.1 | VEGETAL | 1.102 | 25.70 | 738.6 |
| | TERRAPLEN | 18.168 | 351.50 | 24226.2 | REV EXT TERR | 1.664 | 32.67 | 1830.1 |
| | EXC ESCALONADO | 1.429 | 32.56 | 2802.2 | TERR ESCALONADO | 1.429 | 32.56 | 2802.2 |
| 1400.000 | D TIERRA | 8.431 | 160.35 | 8791.5 | ADECUADO COR | 15.366 | 307.32 | 14782.2 |
| | SUELO EST 3 | 8.836 | 176.72 | 8518.8 | VEGETAL | 0.703 | 16.99 | 755.6 |
| | TERRAPLEN | 17.172 | 352.55 | 24578.8 | REV EXT TERR | 1.569 | 31.96 | 1862.0 |
| | EXC ESCALONADO | 1.413 | 28.19 | 2830.4 | TERR ESCALONADO | 1.413 | 28.19 | 2830.4 |
| 1420.000 | D TIERRA | 9.278 | 176.59 | 8968.1 | ADECUADO COR | 15.366 | 307.32 | 15089.5 |
| | SUELO EST 3 | 8.837 | 176.73 | 8695.6 | VEGETAL | 0.653 | 10.62 | 766.2 |
| | TERRAPLEN | 14.690 | 319.41 | 24898.2 | REV EXT TERR | 1.443 | 29.73 | 1891.7 |
| | EXC ESCALONADO | 1.070 | 24.05 | 2854.5 | TERR ESCALONADO | 1.070 | 24.05 | 2854.5 |

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 1440.000 | D TIERRA | 10.113 | 192.06 | 9160.1 | ADECUADO COR | 15.345 | 307.23 | 15396.7 |
| | SUELO EST 3 | 8.836 | 176.73 | 8872.3 | VEGETAL | 0.096 | 7.85 | 774.1 |
| | TERRAPLEN | 11.170 | 261.75 | 25159.9 | REV EXT TERR | 1.242 | 26.83 | 1918.6 |
| | EXC ESCALONADO | 0.590 | 17.45 | 2871.9 | TERR ESCALONADO | 0.590 | 17.45 | 2871.9 |
| 1460.000 | D TIERRA | 12.040 | 220.55 | 9380.7 | ADECUADO COR | 15.092 | 304.88 | 15701.6 |
| | SUELO EST 3 | 8.831 | 176.71 | 9049.0 | VEGETAL | 0.327 | 3.55 | 777.6 |
| | TERRAPLEN | 10.113 | 211.24 | 25371.1 | REV EXT TERR | 1.023 | 22.87 | 1941.4 |
| | EXC ESCALONADO | 0.650 | 14.74 | 2886.7 | TERR ESCALONADO | 0.650 | 14.74 | 2886.7 |
| 1480.000 | D TIERRA | 11.019 | 243.13 | 9623.8 | ADECUADO COR | 13.638 | 291.81 | 15993.4 |
| | SUELO EST 3 | 7.991 | 171.09 | 9220.1 | VEGETAL | 2.013 | 23.45 | 801.0 |
| | TERRAPLEN | 8.928 | 185.24 | 25556.4 | REV EXT TERR | 0.692 | 16.42 | 1957.9 |
| | EXC ESCALONADO | 0.454 | 12.43 | 2899.1 | TERR ESCALONADO | 0.454 | 12.43 | 2899.1 |
| 1500.000 | D TIERRA | 15.270 | 248.12 | 9871.9 | REVEST DESMON | 0.257 | 1.72 | 1.7 |
| | ADECUADO COR | 14.230 | 275.98 | 16269.4 | SUELO EST 3 | 8.347 | 161.76 | 9381.8 |
| | VEGETAL | 1.266 | 42.48 | 843.5 | TERRAPLEN | 3.171 | 119.25 | 25675.6 |
| | REV EXT TERR | 0.575 | 12.40 | 1970.3 | EXC ESCALONADO | 0.325 | 7.30 | 2906.4 |
| | TERR ESCALONADO | 0.325 | 7.30 | 2906.4 | | | | |
| 1520.000 | D TIERRA | 15.785 | 308.12 | 10180.0 | REVEST DESMON | 0.070 | 3.43 | 5.2 |
| | ADECUADO COR | 14.230 | 284.61 | 16554.0 | SUELO EST 3 | 8.347 | 166.93 | 9548.8 |
| | VEGETAL | 2.622 | 42.61 | 886.1 | TERRAPLEN | 1.985 | 52.49 | 25728.1 |
| | REV EXT TERR | 0.484 | 10.63 | 1980.9 | EXC ESCALONADO | 0.152 | 4.80 | 2911.2 |
| | TERR ESCALONADO | 0.152 | 4.80 | 2911.2 | | | | |
| 1540.000 | D TIERRA | 16.028 | 319.40 | 10499.4 | REVEST DESMON | 0.000 | 0.21 | 5.4 |
| | ADECUADO COR | 13.773 | 282.26 | 16836.3 | SUELO EST 3 | 8.122 | 165.82 | 9714.6 |
| | VEGETAL | 2.981 | 56.53 | 942.7 | TERRAPLEN | 0.070 | 24.02 | 25752.2 |
| | REV EXT TERR | 0.335 | 8.32 | 1989.2 | EXC ESCALONADO | 0.004 | 1.55 | 2912.8 |
| | TERR ESCALONADO | 0.004 | 1.55 | 2912.8 | | | | |
| 1560.000 | D TIERRA | 14.186 | 318.25 | 10817.7 | ADECUADO COR | 13.501 | 282.93 | 17119.2 |
| | SUELO EST 3 | 8.100 | 166.86 | 9881.4 | VEGETAL | 0.000 | 7.45 | 950.1 |
| | MUROS | 0.418 | 2.42 | 80.4 | TERRAPLEN | 117.509 | 865.36 | 26617.5 |
| | REV EXT TERR | 2.130 | 31.27 | 2020.5 | EXC ESCALONADO | 1.497 | 21.02 | 2933.8 |
| | TERR ESCALONADO | 1.497 | 21.02 | 2933.8 | | | | |
| 1580.000 | D TIERRA | 14.559 | 44.83 | 10862.5 | ADECUADO COR | 13.332 | 41.48 | 17160.7 |
| | SUELO EST 3 | 7.999 | 24.89 | 9906.3 | MUROS | 0.221 | 0.84 | 81.2 |
| | TERRAPLEN | 113.939 | 354.49 | 26972.0 | REV EXT TERR | 2.211 | 6.66 | 2027.1 |
| | EXC ESCALONADO | 0.782 | 3.07 | 2936.9 | TERR ESCALONADO | 0.782 | 3.07 | 2936.9 |
| 1600.000 | D TIERRA | 21.873 | 342.40 | 11204.9 | ADECUADO COR | 15.308 | 284.28 | 17445.0 |
| | SUELO EST 3 | 9.028 | 168.61 | 10074.9 | VEGETAL | 0.865 | 4.33 | 954.4 |
| | MUROS | 0.000 | 1.36 | 82.6 | TERRAPLEN | 0.001 | 694.87 | 27666.9 |
| | REV EXT TERR | 0.552 | 23.14 | 2050.3 | EXC ESCALONADO | 0.000 | 19.27 | 2956.1 |
| | TERR ESCALONADO | 0.000 | 19.27 | 2956.1 | | | | |
| 1620.000 | D TIERRA | 15.070 | 376.60 | 11581.5 | ADECUADO COR | 14.959 | 308.72 | 17753.7 |
| | S | | | | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.08.08.03 03/11/22 12:21:55 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 1760.000 | D TIERRA | 9.165 | 203.32 | 13033.9 | ADECUADO COR | 18.510 | 367.40 | 19863.9 |
| | SUELO EST 3 | 10.720 | 212.73 | 11487.8 | VEGETAL | 6.438 | 133.30 | 1601.3 |
| | TERRAPLEN | 56.329 | 1098.87 | 32544.1 | REV EXT TERR | 2.406 | 46.27 | 2274.6 |
| | EXC ESCALONADO | 2.710 | 52.31 | 3228.8 | TERR ESCALONADO | 2.710 | 52.31 | 3228.8 |
| 1780.000 | D TIERRA | 6.829 | 160.33 | 13194.2 | ADECUADO COR | 18.526 | 370.49 | 20234.4 |
| | SUELO EST 3 | 10.730 | 214.60 | 11702.4 | VEGETAL | 6.671 | 134.32 | 1735.6 |
| | TERRAPLEN | 52.297 | 1086.91 | 33631.1 | REV EXT TERR | 2.282 | 47.27 | 2321.8 |
| | EXC ESCALONADO | 2.345 | 50.51 | 3279.3 | TERR ESCALONADO | 2.345 | 50.51 | 3279.3 |
| 1800.000 | D TIERRA | 5.790 | 125.47 | 13319.7 | ADECUADO COR | 18.543 | 370.66 | 20605.0 |
| | SUELO EST 3 | 10.740 | 214.69 | 11917.1 | VEGETAL | 7.190 | 137.41 | 1873.0 |
| | TERRAPLEN | 41.626 | 924.71 | 34555.8 | REV EXT TERR | 2.081 | 43.69 | 2365.5 |
| | EXC ESCALONADO | 2.025 | 44.43 | 3323.7 | TERR ESCALONADO | 2.025 | 44.43 | 3323.7 |
| 1820.000 | D TIERRA | 5.813 | 117.46 | 13437.1 | ADECUADO COR | 18.589 | 371.26 | 20976.3 |
| | SUELO EST 3 | 10.768 | 215.06 | 12132.1 | VEGETAL | 7.251 | 132.78 | 2005.8 |
| | TERRAPLEN | 38.740 | 781.91 | 35337.7 | REV EXT TERR | 1.842 | 38.71 | 2404.2 |
| | EXC ESCALONADO | 1.736 | 35.45 | 3359.1 | TERR ESCALONADO | 1.736 | 35.45 | 3359.1 |
| 1840.000 | D TIERRA | 5.330 | 113.20 | 13550.3 | ADECUADO COR | 18.903 | 373.66 | 21349.9 |
| | SUELO EST 3 | 10.956 | 216.50 | 12348.6 | VEGETAL | 7.006 | 140.83 | 2146.7 |
| | TERRAPLEN | 39.520 | 777.64 | 36115.3 | REV EXT TERR | 1.771 | 35.78 | 2440.0 |
| | EXC ESCALONADO | 1.584 | 32.47 | 3391.6 | TERR ESCALONADO | 1.584 | 32.47 | 3391.6 |
| 1860.000 | D TIERRA | 3.683 | 89.96 | 13640.3 | ADECUADO COR | 20.846 | 393.07 | 21743.0 |
| | SUELO EST 3 | 12.122 | 228.13 | 12576.8 | VEGETAL | 8.301 | 151.86 | 2298.5 |
| | TERRAPLEN | 53.093 | 898.32 | 37013.6 | REV EXT TERR | 2.022 | 37.87 | 2477.9 |
| | EXC ESCALONADO | 2.108 | 36.73 | 3428.3 | TERR ESCALONADO | 2.108 | 36.73 | 3428.3 |
| 1880.000 | D TIERRA | 2.420 | 45.90 | 13686.2 | ADECUADO COR | 15.585 | 336.84 | 22079.8 |
| | SUELO EST 3 | 9.999 | 207.79 | 12784.6 | VEGETAL | 6.149 | 121.07 | 2419.6 |
| | TERRAPLEN | 68.087 | 1196.87 | 38210.5 | REV EXT TERR | 2.127 | 36.40 | 2514.3 |
| | EXC ESCALONADO | 2.112 | 41.94 | 3470.3 | TERR ESCALONADO | 2.112 | 41.94 | 3470.3 |
| 1900.000 | D TIERRA | 1.699 | 43.94 | 13730.1 | ADECUADO COR | 16.118 | 317.41 | 22397.2 |
| | SUELO EST 3 | 10.188 | 201.79 | 12986.4 | VEGETAL | 6.787 | 125.83 | 2545.4 |
| | TERRAPLEN | 67.308 | 1365.64 | 39576.2 | REV EXT TERR | 2.031 | 42.06 | 2556.3 |
| | EXC ESCALONADO | 2.250 | 41.80 | 3512.1 | TERR ESCALONADO | 2.250 | 41.80 | 3512.1 |
| 1920.000 | D TIERRA | 1.456 | 30.60 | 13760.7 | ADECUADO COR | 16.491 | 326.76 | 22724.0 |
| | SUELO EST 3 | 10.442 | 206.21 | 13192.6 | VEGETAL | 7.168 | 131.94 | 2677.4 |
| | TERRAPLEN | 77.805 | 1364.59 | 40940.7 | REV EXT TERR | 2.228 | 40.82 | 2597.1 |
| | EXC ESCALONADO | 2.207 | 41.60 | 3553.7 | TERR ESCALONADO | 2.207 | 41.60 | 3553.7 |
| 1940.000 | D TIERRA | 1.078 | 28.32 | 13789.1 | ADECUADO COR | 17.258 | 336.29 | 23060.3 |
| | SUELO EST 3 | 10.769 | 212.00 | 13404.6 | VEGETAL | 7.293 | 148.03 | 2825.4 |
| | TERRAPLEN | 91.571 | 1696.61 | 42637.4 | REV EXT TERR | 2.493 | 47.89 | 2645.0 |
| | EXC ESCALONADO | 2.954 | 53.18 | 3606.9 | TERR ESCALONADO | 2.954 | 53.18 | 3606.9 |
| 1960.000 | D TIERRA | 1.231 | 25.39 | 13814.5 | ADECUADO COR | 12.315 | 341.69 | 23402.0 |
| | SUELO EST 3 | 7.804 | 212.18 | 13616.7 | VEGETAL | 1.629 | 130.86 | 2956.2 |
| | TERRAPLEN | 19.253 | 1705.33 | 44342.7 | REV EXT TERR | 0.354 | 43.33 | 2688.4 |
| | EXC ESCALONADO | 2.651 | 58.67 | 3665.5 | TERR ESCALONADO | 2.651 | 58.67 | 3665.5 |
| 1980.000 | D TIERRA | 1.035 | 27.79 | 13842.2 | ADECUADO COR | 12.999 | 255.95 | 23657.9 |
| | SUELO EST 3 | 8.109 | 160.46 | 13777.2 | VEGETAL | 0.867 | 21.95 | 2978.2 |
| | TERRAPLEN | 15.161 | 338.70 | 44681.4 | REV EXT TERR | 0.004 | 4.70 | 2693.1 |
| | EXC ESCALONADO | 2.204 | 51.15 | 3716.7 | TERR ESCALONADO | 2.204 | 51.15 | 3716.7 |
| 2000.000 | SANEO | 11.784 | 59.54 | 2316.5 | D TIERRA | 1.020 | 19.55 | 13861.8 |
| | ADECUADO COR | 18.768 | 311.42 | 23969.4 | SUELO EST 3 | 11.110 | 189.26 | 13966.5 |
| | VEGETAL | 3.547 | 37.85 | 3016.0 | TERRAPLEN | 59.126 | 608.24 | 45289.6 |
| | REV EXT TERR | 2.139 | 17.30 | 2710.4 | EXC ESCALONADO | 12.214 | 91.73 | 3808.4 |
| 2020.000 | TERR ESCALONADO | 12.214 | 91.73 | 3808.4 | | | | |
| | SANEO | 13.395 | 247.17 | 2563.7 | D TIERRA | 0.481 | 14.80 | 13876.6 |
| | ADECUADO COR | 18.741 | 374.10 | 24343.4 | SUELO EST 3 | 10.950 | 220.09 | 14186.6 |
| | VEGETAL | 4.939 | 82.26 | 3098.3 | TERRAPLEN | 84.610 | 1421.24 | 46710.9 |
| | REV EXT TERR | 3.127 | 53.35 | 2763.7 | EXC ESCALONADO | 12.858 | 198.80 | 4007.2 |
| 2040.000 | TERR ESCALONADO | 12.858 | 198.80 | 4007.2 | | | | |
| | SANEO | 12.818 | 261.47 | 2825.1 | D TIERRA | 0.512 | 12.73 | 13889.3 |
| | ADECUADO COR | 18.687 | 375.23 | 24718.7 | SUELO EST 3 | 10.848 | 218.13 | 14404.7 |
| | VEGETAL | 6.459 | 111.97 | 3210.3 | TERRAPLEN | 112.848 | 1970.36 | 48681.2 |
| | REV EXT TERR | 3.625 | 66.46 | 2830.2 | EXC ESCALONADO | 8.091 | 167.27 | 4174.5 |
| 2060.000 | TERR ESCALONADO | 8.091 | 167.27 | 4174.5 | | | | |
| | SANEO | 12.554 | 290.30 | 3115.4 | D TIERRA | 0.568 | 6.15 | 13895.5 |
| | ADECUADO COR | 18.423 | 371.57 | 25090.2 | SUELO EST 3 | 10.669 | 215.32 | 14620.0 |
| | VEGETAL | 7.606 | 149.76 | 3360.0 | TERRAPLEN | 143.976 | 2616.71 | 51297.9 |
| | REV EXT TERR | 4.598 | 82.14 | 2912.3 | EXC ESCALONADO | 11.940 | 215.77 | 4390.2 |
| 2080.000 | TERR ESCALONADO | 11.940 | 215.77 | 4390.2 | | | | |
| | SANEO | 0.000 | 9.98 | 3125.4 | D TIERRA | 0.000 | 2.77 | 13898.2 |
| | ADECUADO COR | 4.660 | 286.03 | 25376.3 | SUELO EST 3 | 2.796 | 168.96 | 14789.0 |
| | VEGETAL | 0.000 | 79.11 | 3439.2 | MUROS | 0.152 | 2.35 | 89.7 |
| | TERRAPLEN | 58.492 | 2055.18 | 53353.1 | REV EXT TERR | 1.445 | 42.65 | 2955.0 |
| | EXC ESCALONADO | 4.443 | 251.38 | 4641.6 | TERR ESCALONADO | 4.443 | 251.38 | 4641.6 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 2100.000 | ADECUADO COR | 14.377 | 78.39 | 25454.7 | SUELO EST 3 | 8.432 | 46.47 | 14835.4 |
| | VEGETAL | 3.137 | 10.33 | 3449.5 | MUROS | 0.000 | 1.38 | 91.0 |
| | TERRAPLEN | 85.072 | 455.63 | 53808.7 | REV EXT TERR | 2.382 | 12.77 | 2967.7 |
| | EXC ESCALONADO | 10.035 | 43.55 | 4685.2 | TERR ESCALONADO | 10.035 | 43.55 | 4685.2 |
| 2120.000 | D TIERRA | 0.000 | 0.26 | 13898.5 | ADECUADO COR | 16.993 | 336.07 | 25790.7 |
| | SUELO EST 3 | 9.810 | 196.22 | 15031.7 | VEGETAL | 6.481 | 106.53 | 3556.0 |
| | MUROS | 0.000 | 1.57 | 92.6 | TERRAPLEN | 138.953 | 2282.53 | 56091.3 |
| | REV EXT TERR | 5.196 | 85.69 | 3053.4 | EXC ESCALONADO | 7.913 | 171.42 | 4856.6 |
| 2140.000 | TERR ESCALONADO | 7.913 | 171.42 | 4856.6 | | | | |
| | ADECUADO COR | 16.791 | 337.41 | 26128.1 | SUELO EST 3 | 9.689 | 194.74 | 15226.4 |
| | VEGETAL | 7.536 | 142.04 | 3698.1 | TERRAPLEN | 140.328 | 2806.06 | 58897.3 |
| | REV EXT TERR | 5.082 | 102.81 | 3156.2 | EXC ESCALONADO | 7.661 | 157.75 | 5014.3 |
| 2160.000 | TERR ESCALONADO | 7.662 | 157.75 | 5014.4 | | | | |
| | ADECUADO COR | 16.774 | 335.54 | 26463.7 | SUELO EST 3 | 9.679 | 193.62 | 15420.0 |
| | VEGETAL | 7.639 | 145.77 | 3843.8 | TERRAPLEN | 134.530 | 2740.95 | 61638.3 |
| | REV EXT TERR | 4.931 | 100.21 | 3256.4 | EXC ESCALONADO | 7.634 | 151.98 | 5166.3 |
| 2180.000 | TERR ESCALONADO | 7.635 | 151.99 | 5166.4 | | | | |
| | ADECUADO COR | 16.774 | 335.48 | 26799.2 | SUELO EST 3 | 9.679 | 193.58 | 15613.6 |
| | VEGETAL | 7.484 | 148.43 | 3992.3 | TERRAPLEN | 128.635 | 2637.27 | 64275.3 |
| | REV EXT TERR | 4.726 | 97.71 | 3354.2 | EXC ESCALONADO | 7.888 | 153.01 | 5319.3 |
| 2200.000 | TERR ESCALONADO | 7.888 | 153.01 | 5319.4 | | | | |
| | ADECUADO COR | 16.774 | 335.48 | 27134.6 | SUELO EST 3 | 9.679 | 193.58 | 15807.2 |
| | VEGETAL | 4.770 | 109.51 | 4101.8 | TERRAPLEN | 97.783 | 2262.95 | 66538.5 |
| | REV EXT TERR | 3.357 | 79.95 | 3434.1 | EXC ESCALONADO | 7.554 | 152.50 | 5471.8 |
| 2220.000 | TERR ESCALONADO | 7.554 | 152.50 | 5471.9 | | | | |
| | ADECUADO COR | 16.708 | 335.41 | 27470.1 | SUELO EST 3 | 9.679 | 193.58 | 16000.7 |
| | VEGETAL | 2.576 | 70.05 | 4171.8 | TERRAPLEN | 63.882 | 1590.91 | 68129.4 |
| | REV EXT TERR | 2.369 | 56.64 | 3490.8 | EXC ESCALONADO | 5.713 | 125.73 | 5597.6 |
| 2240.000 | TERR ESCALONADO | 5.713 | 125.73 | 5597.6 | | | | |
| | D TIERRA | 0.079 | 0.39 | 13898.9 | ADECUADO COR | 15.491 | 322.51 | 27792.6 |
| | SUELO EST 3 | 9.104 | 189.26 | 16190.0 | VEGETAL | 2.843 | 61.46 | 4233.3 |
| | TERRAPLEN | 46.253 | 1082.21 | 69211.6 | REV EXT TERR | 1.965 | 41.84 | 3532.6 |
| | EXC ESCALONADO | 4.056 | 89.23 | 5686.8 | TERR ESCALONADO | 4.057 | 89.23 | 5686.8 |
| 2260.000 | D TIERRA | 0.682 | 5.62 | 13904.5 | ADECUADO COR | 20.450 | 358.28 | 28150.8 |
| | SUELO EST 3 | 11.966 | 210.11 | 16400.1 | VEGETAL | 6.660 | 92.58 | 4325.9 |
| | TERRAPLEN | 102.878 | 1487.52 | 70699.1 | REV EXT TERR | 4.250 | 60.24 | 3592.8 |
| | EXC ESCALONADO | 6.448 | 104.84 | 5791.6 | TERR ESCALONADO | 6.448 | 104.84 | 5791.7 |
| 2280.000 | D TIERRA | 1.239 | 17.95 | 13922.5 | ADECUADO COR | 19.472 | 399.71 | 28550.6 |
| | SUELO EST 3 | 11.487 | 234.66 | 16634.8 | VEGETAL | 6.256 | 130.31 | 4456.2 |
| | TERRAPLEN | 85.643 | 1881.93 | 7258 | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
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Istram 22.08.08.03 03/11/22 12:21:56 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 2460.000 | D TIERRA | 2.784 | 48.94 | 14254.5 | ADECUADO COR | 16.774 | 335.49 | 31696.9 |
| | SUELO EST 3 | 9.679 | 193.58 | 18474.8 | VEGETAL | 5.278 | 81.19 | 5372.7 |
| | TERRAPLEN | 124.506 | 2420.12 | 89683.7 | REV EXT TERR | 4.373 | 87.03 | 4393.0 |
| | EXC ESCALONADO | 6.233 | 124.96 | 6948.7 | TERR ESCALONADO | 6.233 | 124.96 | 6948.8 |
| 2480.000 | D TIERRA | 0.000 | 1.08 | 14255.6 | ADECUADO COR | 14.551 | 175.49 | 31872.4 |
| | SUELO EST 3 | 8.731 | 105.14 | 18579.9 | VEGETAL | 0.226 | 6.03 | 5378.8 |
| | MUROS | 0.248 | 2.51 | 95.1 | TERRAPLEN | 96.320 | 1059.32 | 90743.0 |
| | REV EXT TERR | 1.392 | 17.41 | 4410.5 | EXC ESCALONADO | 14.045 | 125.39 | 7074.1 |
| | TERR ESCALONADO | 14.046 | 125.41 | 7074.2 | | | | |
| 2500.000 | D TIERRA | 2.758 | 33.15 | 14288.8 | ADECUADO COR | 16.596 | 314.17 | 32186.6 |
| | SUELO EST 3 | 9.572 | 184.29 | 18764.2 | VEGETAL | 5.052 | 63.28 | 5442.1 |
| | MUROS | 0.000 | 1.93 | 97.1 | TERRAPLEN | 134.509 | 2226.52 | 92969.5 |
| | REV EXT TERR | 4.641 | 63.35 | 4473.8 | EXC ESCALONADO | 7.145 | 149.87 | 7224.0 |
| | TERR ESCALONADO | 7.145 | 149.88 | 7224.0 | | | | |
| 2520.000 | SANEADO | 13.439 | 110.49 | 3235.9 | D TIERRA | 3.599 | 66.86 | 14355.6 |
| | ADECUADO COR | 16.316 | 329.12 | 32515.7 | SUELO EST 3 | 9.405 | 189.76 | 18954.0 |
| | VEGETAL | 2.466 | 83.28 | 5525.3 | TERRAPLEN | 145.206 | 2799.28 | 95768.8 |
| | REV EXT TERR | 4.551 | 92.28 | 4566.1 | EXC ESCALONADO | 8.311 | 159.48 | 7383.5 |
| | TERR ESCALONADO | 8.311 | 159.48 | 7383.5 | | | | |
| 2540.000 | SANEADO | 11.785 | 239.46 | 3475.4 | D TIERRA | 0.000 | 3.76 | 14359.4 |
| | ADECUADO COR | 16.036 | 323.51 | 32839.2 | SUELO EST 3 | 9.237 | 186.40 | 19140.4 |
| | VEGETAL | 2.884 | 60.03 | 5585.4 | TERRAPLEN | 145.415 | 2873.04 | 98641.8 |
| | REV EXT TERR | 4.828 | 94.23 | 4660.3 | EXC ESCALONADO | 8.289 | 171.70 | 7555.2 |
| | TERR ESCALONADO | 8.289 | 171.70 | 7555.2 | | | | |
| 2560.000 | SANEADO | 11.492 | 230.28 | 3705.7 | ADECUADO COR | 15.756 | 317.92 | 33157.1 |
| | SUELO EST 3 | 9.068 | 183.04 | 19323.4 | VEGETAL | 2.752 | 56.65 | 5642.0 |
| | TERRAPLEN | 139.674 | 2865.93 | 101507.8 | REV EXT TERR | 4.859 | 96.83 | 4757.2 |
| | EXC ESCALONADO | 8.429 | 167.54 | 7722.7 | TERR ESCALONADO | 8.430 | 167.56 | 7722.8 |
| 2580.000 | SANEADO | 15.255 | 244.21 | 3949.9 | ADECUADO COR | 15.476 | 312.31 | 33469.4 |
| | SUELO EST 3 | 8.900 | 179.69 | 19503.1 | VEGETAL | 1.555 | 47.96 | 5690.0 |
| | TERRAPLEN | 128.503 | 2681.76 | 104189.5 | REV EXT TERR | 4.741 | 95.97 | 4853.1 |
| | EXC ESCALONADO | 9.082 | 181.87 | 7904.6 | TERR ESCALONADO | 9.082 | 181.89 | 7904.7 |
| 2600.000 | SANEADO | 0.000 | 184.09 | 4134.0 | ADECUADO COR | 15.196 | 306.71 | 33776.1 |
| | SUELO EST 3 | 8.732 | 176.31 | 19679.4 | VEGETAL | 4.374 | 51.08 | 5741.1 |
| | TERRAPLEN | 114.591 | 2446.15 | 106635.7 | REV EXT TERR | 4.628 | 91.43 | 4944.6 |
| | EXC ESCALONADO | 6.811 | 157.16 | 8061.7 | TERR ESCALONADO | 6.811 | 157.16 | 8061.8 |
| 2620.000 | ADECUADO COR | 15.325 | 308.58 | 34084.7 | SUELO EST 3 | 8.809 | 177.44 | 19856.9 |
| | VEGETAL | 4.814 | 91.50 | 5832.6 | TERRAPLEN | 106.976 | 2241.05 | 108876.7 |
| | REV EXT TERR | 4.352 | 89.99 | 5034.5 | EXC ESCALONADO | 6.249 | 130.85 | 8192.6 |
| | TERR ESCALONADO | 6.249 | 130.85 | 8192.7 | | | | |
| 2640.000 | ADECUADO COR | 15.024 | 300.93 | 34385.6 | SUELO EST 3 | 8.629 | 172.85 | 20029.7 |
| | VEGETAL | 4.651 | 94.82 | 5927.4 | TERRAPLEN | 100.270 | 2053.44 | 110930.2 |
| | REV EXT TERR | 4.100 | 84.50 | 5119.0 | EXC ESCALONADO | 6.220 | 121.45 | 8314.0 |
| | TERR ESCALONADO | 6.220 | 121.45 | 8314.1 | | | | |
| 2660.000 | ADECUADO COR | 15.024 | 300.48 | 34686.1 | SUELO EST 3 | 8.629 | 172.58 | 20202.3 |
| | VEGETAL | 4.149 | 91.31 | 6018.7 | TERRAPLEN | 92.113 | 1918.73 | 112848.9 |
| | REV EXT TERR | 3.902 | 79.81 | 5198.9 | EXC ESCALONADO | 5.425 | 114.65 | 8428.7 |
| | TERR ESCALONADO | 5.426 | 114.67 | 8428.8 | | | | |
| 2680.000 | ADECUADO COR | 15.024 | 300.48 | 34986.6 | SUELO EST 3 | 8.629 | 172.58 | 20374.9 |
| | VEGETAL | 4.423 | 85.46 | 6104.1 | TERRAPLEN | 88.089 | 1795.45 | 114644.3 |
| | REV EXT TERR | 3.741 | 76.50 | 5275.3 | EXC ESCALONADO | 5.209 | 105.44 | 8534.1 |
| | TERR ESCALONADO | 5.209 | 105.46 | 8534.3 | | | | |
| 2700.000 | ADECUADO COR | 15.024 | 300.48 | 35287.1 | SUELO EST 3 | 8.629 | 172.58 | 20547.4 |
| | VEGETAL | 5.151 | 94.38 | 6198.5 | TERRAPLEN | 87.289 | 1749.74 | 116394.1 |
| | REV EXT TERR | 3.608 | 73.67 | 5349.0 | EXC ESCALONADO | 4.804 | 103.24 | 8637.3 |
| | TERR ESCALONADO | 4.804 | 103.25 | 8637.5 | | | | |
| 2720.000 | ADECUADO COR | 15.024 | 300.48 | 35587.6 | SUELO EST 3 | 8.629 | 172.58 | 20720.0 |
| | VEGETAL | 5.122 | 102.11 | 6300.6 | TERRAPLEN | 88.673 | 1758.66 | 118152.7 |
| | REV EXT TERR | 3.512 | 71.00 | 5420.0 | EXC ESCALONADO | 4.911 | 94.70 | 8732.0 |
| | TERR ESCALONADO | 4.911 | 94.72 | 8732.2 | | | | |
| 2740.000 | ADECUADO COR | 15.024 | 300.48 | 35888.0 | SUELO EST 3 | 8.629 | 172.58 | 20892.6 |
| | VEGETAL | 4.794 | 98.82 | 6399.5 | TERRAPLEN | 87.982 | 1775.26 | 119928.0 |
| | REV EXT TERR | 3.344 | 68.12 | 5488.1 | EXC ESCALONADO | 4.072 | 88.69 | 8820.7 |
| | TERR ESCALONADO | 4.073 | 88.70 | 8820.9 | | | | |
| 2760.000 | ADECUADO COR | 15.024 | 300.48 | 36188.5 | SUELO EST 3 | 8.629 | 172.58 | 21065.2 |
| | VEGETAL | 4.554 | 93.29 | 6492.7 | TERRAPLEN | 85.715 | 1726.32 | 121654.3 |
| | REV EXT TERR | 3.310 | 66.60 | 5554.7 | EXC ESCALONADO | 4.492 | 85.10 | 8905.8 |
| | TERR ESCALONADO | 4.492 | 85.11 | 8906.0 | | | | |
| 2780.000 | ADECUADO COR | 15.024 | 300.48 | 36489.0 | SUELO EST 3 | 8.629 | 172.58 | 21237.7 |
| | VEGETAL | 4.387 | 88.83 | 6581.6 | TERRAPLEN | 80.701 | 1687.77 | 123342.1 |
| | REV EXT TERR | 3.239 | 65.50 | 5620.2 | EXC ESCALONADO | 3.975 | 86.18 | 8992.0 |
| | TERR ESCALONADO | 3.975 | 86.19 | 8992.2 | | | | |

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 2800.000 | ADECUADO COR | 15.024 | 300.48 | 36789.5 | SUELO EST 3 | 8.629 | 172.58 | 21410.3 |
| | VEGETAL | 4.287 | 86.44 | 6668.0 | TERRAPLEN | 76.924 | 1613.51 | 124955.6 |
| | REV EXT TERR | 3.250 | 64.76 | 5685.0 | EXC ESCALONADO | 3.929 | 134.78 | 9126.8 |
| | TERR ESCALONADO | 3.929 | 134.79 | 9127.0 | | | | |
| 2820.000 | D TIERRA | 4.154 | 77.01 | 14436.4 | ADECUADO COR | 15.024 | 300.49 | 37090.0 |
| | SUELO EST 3 | 8.629 | 172.58 | 21582.9 | VEGETAL | 6.834 | 126.36 | 6794.4 |
| | TERRAPLEN | 76.819 | 1556.77 | 126512.4 | REV EXT TERR | 3.158 | 64.66 | 5749.7 |
| | EXC ESCALONADO | 5.129 | 116.74 | 9243.5 | TERR ESCALONADO | 5.129 | 116.75 | 9243.8 |
| 2840.000 | D TIERRA | 3.162 | 83.86 | 14520.3 | ADECUADO COR | 15.024 | 300.48 | 37390.5 |
| | SUELO EST 3 | 8.629 | 172.58 | 21755.5 | VEGETAL | 7.127 | 139.83 | 6934.2 |
| | TERRAPLEN | 65.636 | 1406.73 | 127919.1 | REV EXT TERR | 3.100 | 60.95 | 5810.6 |
| | EXC ESCALONADO | 3.621 | 83.78 | 9327.3 | TERR ESCALONADO | 3.621 | 83.78 | 9327.6 |
| 2860.000 | D TIERRA | 2.454 | 70.61 | 14590.9 | ADECUADO COR | 15.524 | 306.73 | 37697.2 |
| | SUELO EST 3 | 8.929 | 176.33 | 21931.8 | VEGETAL | 7.073 | 142.71 | 7076.9 |
| | TERRAPLEN | 74.201 | 1430.89 | 129350.0 | REV EXT TERR | 2.955 | 58.97 | 5869.6 |
| | EXC ESCALONADO | 3.256 | 66.34 | 9393.6 | TERR ESCALONADO | 3.257 | 66.35 | 9393.9 |
| 2880.000 | D TIERRA | 2.492 | 49.05 | 14639.9 | ADECUADO COR | 15.024 | 301.73 | 37998.9 |
| | SUELO EST 3 | 8.629 | 173.33 | 22105.1 | VEGETAL | 6.793 | 139.45 | 7216.4 |
| | TERRAPLEN | 67.141 | 1385.97 | 130735.9 | REV EXT TERR | 2.758 | 57.08 | 5926.7 |
| | EXC ESCALONADO | 2.902 | 61.20 | 9454.9 | TERR ESCALONADO | 2.903 | 61.21 | 9455.1 |
| 2900.000 | D TIERRA | 2.370 | 49.19 | 14689.1 | ADECUADO COR | 15.024 | 300.48 | 38299.4 |
| | SUELO EST 3 | 8.629 | 172.58 | 22277.7 | VEGETAL | 6.830 | 136.17 | 7352.5 |
| | TERRAPLEN | 61.372 | 1284.70 | 132020.6 | REV EXT TERR | 2.503 | 52.78 | 5979.4 |
| | EXC ESCALONADO | 2.328 | 53.70 | 9508.6 | TERR ESCALONADO | 2.328 | 53.70 | 9508.8 |
| 2920.000 | D TIERRA | 2.312 | 45.71 | 14734.8 | ADECUADO COR | 15.022 | 300.47 | 38599.9 |
| | SUELO EST 3 | 8.629 | 172.58 | 22450.3 | VEGETAL | 6.910 | 138.77 | 7491.3 |
| | TERRAPLEN | 57.520 | 1202.03 | 133222.7 | REV EXT TERR | 2.217 | 47.25 | 6026.7 |
| | EXC ESCALONADO | 1.744 | 41.04 | 9549.6 | TERR ESCALONADO | 1.745 | 41.05 | 9549.9 |
| 2940.000 | D TIERRA | 2.674 | 52.80 | 14787.6 | ADECUADO COR | 14.291 | 294.62 | 38894.5 |
| | SUELO EST 3 | 8.629 | 172.58 | 22622.9 | VEGETAL | 6.705 | 133.42 | 7624.7 |
| | TERRAPLEN | 51.655 | 1076.18 | 134298.8 | REV EXT TERR | 1.946 | 42.07 | 6068.7 |
| | EXC ESCALONADO | 1.578 | 34.91 | 9584.5 | TERR ESCALONADO | 1.578 | 34.91 | 9584.8 |
| 2960.000 | D TIERRA | 2.936 | 56.12 | 14843.7 | ADECUADO COR | 14.949 | 296.26 | 39190.8 |
| | SUELO EST 3 | 8.630 | 172.58 | 22795.4 | VEGETAL | 6.405 | 134.05 | 7758.8 |
| | TERRAPLEN | 46.778 | 989.83 | 135288.7 | REV EXT TERR | 1.704 | 36.29 | 6105.0 |
| | EXC ESCALONADO | 1.592 | 31.39 | 9615.9 | TERR ESCALONADO | 1.592 | 31.39 | 9616.2 |
| 2980.000 | D TIERRA | 3.721 | 65.14 | 14908.9 | ADECUADO COR | 14.914 | 296.65 | 39487.4 |
| | SUELO EST 3 | 8.726 | 172.78 | 22968.2 | VEGETAL | 6.308 | 128.39 | 7887.2 |
| | TERRAPLEN | 40.896 | 876.10 | 136164.8 | REV EXT TERR | 1.556 | 32.15 | 6137.2 |
| | EXC ESCALONADO | 1.439 | 30.47 | 9646.4 | TERR ESCALONADO | 1.439 | 30.47 | 9646.6 |
| 3000.000 | D TIERRA | 5.378 | 92.45 | 15001.3 | ADECUADO COR | 14.913 | 299.73 | 39787.1 |
| | S | | | | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.08.08.03 03/11/22 12:21:56 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 3160.000 | D TIERRA | 9.101 | 183.55 | 16267.0 | ADECUADO COR | 13.593 | 273.37 | 42038.1 |
| | SUELO EST 3 | 7.965 | 160.19 | 24463.9 | VEGETAL | 6.014 | 119.93 | 8991.0 |
| | TERRAPLEN | 29.453 | 614.91 | 142642.3 | REV EXT TERR | 1.056 | 21.32 | 6357.3 |
| | EXC ESCALONADO | 0.951 | 18.88 | 9840.2 | TERR ESCALONADO | 0.951 | 18.88 | 9840.5 |
| 3180.000 | D TIERRA | 9.451 | 184.73 | 16451.8 | ADECUADO COR | 13.550 | 271.21 | 42309.3 |
| | SUELO EST 3 | 7.939 | 158.90 | 24622.8 | VEGETAL | 6.046 | 120.79 | 9111.8 |
| | TERRAPLEN | 26.674 | 558.00 | 143200.3 | REV EXT TERR | 1.025 | 20.81 | 6378.1 |
| | EXC ESCALONADO | 0.889 | 18.26 | 9858.4 | TERR ESCALONADO | 0.889 | 18.26 | 9858.7 |
| 3200.000 | D TIERRA | 15.788 | 228.86 | 16680.6 | ADECUADO COR | 14.646 | 276.18 | 42585.5 |
| | SUELO EST 3 | 8.596 | 161.89 | 24784.7 | VEGETAL | 1.751 | 92.48 | 9204.2 |
| | TERRAPLEN | 5.136 | 384.72 | 143585.0 | REV EXT TERR | 0.746 | 18.93 | 6397.0 |
| | EXC ESCALONADO | 0.380 | 15.84 | 9874.3 | TERR ESCALONADO | 0.380 | 15.84 | 9874.6 |
| 3220.000 | D TIERRA | 14.133 | 298.60 | 16979.2 | ADECUADO COR | 14.838 | 294.82 | 42880.3 |
| | SUELO EST 3 | 8.712 | 173.06 | 24957.7 | VEGETAL | 5.666 | 93.90 | 9298.2 |
| | TERRAPLEN | 22.069 | 312.06 | 143897.1 | REV EXT TERR | 1.024 | 17.93 | 6414.9 |
| | EXC ESCALONADO | 0.702 | 11.95 | 9886.2 | TERR ESCALONADO | 0.702 | 11.95 | 9886.5 |
| 3240.000 | D TIERRA | 14.704 | 287.25 | 17266.5 | ADECUADO COR | 15.024 | 298.37 | 43178.7 |
| | SUELO EST 3 | 8.811 | 175.14 | 25132.9 | VEGETAL | 5.620 | 112.30 | 9410.4 |
| | TERRAPLEN | 20.558 | 437.81 | 144334.9 | REV EXT TERR | 1.108 | 21.31 | 6436.2 |
| | EXC ESCALONADO | 0.642 | 14.86 | 9901.1 | TERR ESCALONADO | 0.642 | 14.86 | 9901.4 |
| 3260.000 | D TIERRA | 16.648 | 316.50 | 17583.0 | ADECUADO COR | 15.220 | 302.39 | 43481.1 |
| | SUELO EST 3 | 8.836 | 176.58 | 25309.4 | VEGETAL | 5.342 | 108.53 | 9370.0 |
| | TERRAPLEN | 16.961 | 368.83 | 144703.7 | REV EXT TERR | 1.134 | 22.22 | 6458.5 |
| | EXC ESCALONADO | 0.718 | 12.41 | 9913.5 | TERR ESCALONADO | 0.718 | 12.41 | 9913.8 |
| 3280.000 | D TIERRA | 17.888 | 346.16 | 17929.1 | ADECUADO COR | 15.251 | 304.38 | 43785.5 |
| | SUELO EST 3 | 8.836 | 176.72 | 25486.2 | VEGETAL | 5.499 | 109.49 | 9628.5 |
| | TERRAPLEN | 15.847 | 331.35 | 145035.1 | REV EXT TERR | 1.112 | 22.33 | 6480.8 |
| | EXC ESCALONADO | 0.694 | 13.54 | 9927.0 | TERR ESCALONADO | 0.694 | 13.54 | 9927.3 |
| 3300.000 | D TIERRA | 16.772 | 346.67 | 18275.8 | ADECUADO COR | 15.325 | 306.20 | 44091.6 |
| | SUELO EST 3 | 8.837 | 176.73 | 25662.9 | VEGETAL | 4.408 | 103.67 | 9732.1 |
| | TERRAPLEN | 14.410 | 293.15 | 145328.2 | REV EXT TERR | 1.222 | 22.92 | 6503.7 |
| | EXC ESCALONADO | 0.640 | 13.70 | 9940.7 | TERR ESCALONADO | 0.640 | 13.70 | 9941.0 |
| 3320.000 | D TIERRA | 18.308 | 366.17 | 18642.0 | ADECUADO COR | 15.364 | 307.04 | 44398.7 |
| | SUELO EST 3 | 8.837 | 176.73 | 25839.6 | VEGETAL | 2.870 | 77.27 | 9809.4 |
| | TERRAPLEN | 14.505 | 296.76 | 145625.0 | REV EXT TERR | 1.149 | 25.10 | 6528.8 |
| | EXC ESCALONADO | 1.327 | 17.58 | 9958.3 | TERR ESCALONADO | 1.327 | 17.58 | 9958.6 |
| 3340.000 | D TIERRA | 15.606 | 330.88 | 18972.9 | ADECUADO COR | 15.366 | 307.30 | 44706.0 |
| | SUELO EST 3 | 8.836 | 176.73 | 26016.4 | VEGETAL | 1.792 | 48.85 | 9858.3 |
| | TERRAPLEN | 10.472 | 252.85 | 145877.8 | REV EXT TERR | 1.284 | 24.17 | 6553.0 |
| | EXC ESCALONADO | 1.290 | 28.14 | 9986.5 | TERR ESCALONADO | 1.290 | 28.14 | 9986.8 |
| 3360.000 | D TIERRA | 14.856 | 305.35 | 19278.2 | ADECUADO COR | 15.516 | 309.19 | 45015.2 |
| | SUELO EST 3 | 8.926 | 177.85 | 26194.2 | VEGETAL | 2.424 | 39.95 | 9898.2 |
| | TERRAPLEN | 11.090 | 217.10 | 146094.9 | REV EXT TERR | 1.241 | 25.32 | 6578.3 |
| | EXC ESCALONADO | 1.208 | 23.26 | 10009.7 | TERR ESCALONADO | 1.208 | 23.26 | 10010.0 |
| 3380.000 | D TIERRA | 14.259 | 286.77 | 19565.0 | ADECUADO COR | 15.016 | 301.57 | 45316.8 |
| | SUELO EST 3 | 8.627 | 173.28 | 26367.5 | VEGETAL | 0.806 | 38.82 | 9937.0 |
| | TERRAPLEN | 9.933 | 212.84 | 146307.8 | REV EXT TERR | 1.206 | 24.41 | 6602.7 |
| | EXC ESCALONADO | 1.052 | 22.47 | 10032.2 | TERR ESCALONADO | 1.052 | 22.47 | 10032.5 |
| 3400.000 | D TIERRA | 12.139 | 259.25 | 19824.2 | ADECUADO COR | 15.016 | 300.32 | 45617.1 |
| | SUELO EST 3 | 8.626 | 172.53 | 26540.0 | VEGETAL | 2.914 | 45.75 | 9982.8 |
| | TERRAPLEN | 11.765 | 214.89 | 146522.7 | REV EXT TERR | 1.302 | 24.64 | 6627.4 |
| | EXC ESCALONADO | 1.456 | 26.24 | 10058.4 | TERR ESCALONADO | 1.456 | 26.24 | 10058.7 |
| 3420.000 | D TIERRA | 10.312 | 222.80 | 20047.0 | ADECUADO COR | 15.016 | 300.32 | 45917.4 |
| | SUELO EST 3 | 8.626 | 172.53 | 26712.5 | VEGETAL | 2.493 | 55.23 | 10038.0 |
| | TERRAPLEN | 14.660 | 268.53 | 146791.2 | REV EXT TERR | 1.445 | 27.68 | 6655.0 |
| | EXC ESCALONADO | 2.369 | 42.28 | 10100.7 | TERR ESCALONADO | 2.369 | 42.28 | 10101.0 |
| 3440.000 | D TIERRA | 8.929 | 192.96 | 20240.0 | ADECUADO COR | 15.016 | 300.32 | 46217.7 |
| | SUELO EST 3 | 8.626 | 172.53 | 26885.1 | VEGETAL | 1.526 | 38.49 | 10076.5 |
| | TERRAPLEN | 14.223 | 289.32 | 147080.5 | REV EXT TERR | 1.493 | 29.61 | 6684.7 |
| | EXC ESCALONADO | 1.316 | 39.90 | 10140.6 | TERR ESCALONADO | 1.316 | 39.90 | 10140.9 |
| 3460.000 | D TIERRA | 11.180 | 202.54 | 20442.5 | ADECUADO COR | 15.016 | 300.32 | 46518.0 |
| | SUELO EST 3 | 8.626 | 172.53 | 27057.6 | VEGETAL | 2.172 | 25.34 | 10101.9 |
| | TERRAPLEN | 23.576 | 365.78 | 147446.3 | REV EXT TERR | 1.514 | 29.21 | 6713.9 |
| | EXC ESCALONADO | 1.775 | 37.69 | 10178.3 | TERR ESCALONADO | 1.775 | 37.69 | 10178.6 |
| 3480.000 | D TIERRA | 9.692 | 193.35 | 20635.9 | ADECUADO COR | 15.016 | 300.32 | 46818.4 |
| | SUELO EST 3 | 8.626 | 172.53 | 27230.1 | VEGETAL | 4.228 | 67.82 | 10169.7 |
| | TERRAPLEN | 22.520 | 467.18 | 147913.5 | REV EXT TERR | 1.576 | 30.66 | 6744.5 |
| | EXC ESCALONADO | 1.803 | 38.21 | 10216.5 | TERR ESCALONADO | 1.803 | 38.21 | 10216.8 |
| 3500.000 | D TIERRA | 8.921 | 186.33 | 20822.2 | ADECUADO COR | 15.016 | 300.32 | 47118.7 |
| | SUELO EST 3 | 8.626 | 172.53 | 27402.7 | VEGETAL | 4.536 | 86.63 | 10256.3 |
| | TERRAPLEN | 18.894 | 413.30 | 148326.8 | REV EXT TERR | 1.622 | 32.25 | 6776.8 |
| | EXC ESCALONADO | 1.588 | 32.36 | 10248.9 | TERR ESCALONADO | 1.588 | 32.36 | 10249.2 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 3520.000 | D TIERRA | 8.149 | 175.77 | 20998.0 | ADECUADO COR | 15.016 | 300.32 | 47419.0 |
| | SUELO EST 3 | 8.626 | 172.53 | 27575.2 | VEGETAL | 4.894 | 90.83 | 10347.1 |
| | TERRAPLEN | 23.051 | 404.42 | 148731.2 | REV EXT TERR | 1.734 | 33.31 | 6810.1 |
| | EXC ESCALONADO | 1.929 | 34.32 | 10283.2 | TERR ESCALONADO | 1.929 | 34.32 | 10283.5 |
| 3540.000 | D TIERRA | 4.690 | 123.94 | 21121.9 | ADECUADO COR | 15.016 | 300.32 | 47719.3 |
| | SUELO EST 3 | 8.626 | 172.53 | 27747.7 | VEGETAL | 4.711 | 98.32 | 10445.4 |
| | TERRAPLEN | 33.035 | 557.45 | 149288.6 | REV EXT TERR | 2.049 | 38.06 | 6848.1 |
| | EXC ESCALONADO | 2.310 | 44.37 | 10327.6 | TERR ESCALONADO | 2.310 | 44.37 | 10327.8 |
| 3560.000 | D TIERRA | 4.212 | 89.28 | 21211.2 | ADECUADO COR | 15.016 | 300.32 | 48019.6 |
| | SUELO EST 3 | 8.626 | 172.53 | 27920.2 | VEGETAL | 4.870 | 96.36 | 10541.8 |
| | TERRAPLEN | 35.514 | 692.72 | 149981.4 | REV EXT TERR | 2.113 | 41.49 | 6889.6 |
| | EXC ESCALONADO | 2.598 | 49.66 | 10377.2 | TERR ESCALONADO | 2.598 | 49.66 | 10377.5 |
| 3580.000 | D TIERRA | 4.679 | 84.25 | 21295.5 | ADECUADO COR | 15.016 | 300.32 | 48319.9 |
| | SUELO EST 3 | 8.626 | 172.53 | 28092.8 | VEGETAL | 4.611 | 94.51 | 10636.3 |
| | TERRAPLEN | 32.868 | 659.28 | 150640.6 | REV EXT TERR | 2.127 | 42.33 | 6932.0 |
| | EXC ESCALONADO | 2.837 | 51.36 | 10428.6 | TERR ESCALONADO | 2.837 | 51.36 | 10428.9 |
| 3600.000 | D TIERRA | 3.926 | 86.21 | 21381.7 | ADECUADO COR | 15.016 | 300.32 | 48620.3 |
| | SUELO EST 3 | 8.627 | 172.53 | 28265.3 | VEGETAL | 4.181 | 93.42 | 10729.7 |
| | TERRAPLEN | 34.815 | 669.52 | 151310.2 | REV EXT TERR | 2.237 | 43.43 | 6975.4 |
| | EXC ESCALONADO | 2.747 | 53.29 | 10481.9 | TERR ESCALONADO | 2.747 | 53.29 | 10482.2 |
| 3620.000 | D TIERRA | 1.192 | 37.71 | 21419.4 | ADECUADO COR | 15.016 | 300.32 | 48920.6 |
| | SUELO EST 3 | 8.626 | 172.53 | 28437.8 | VEGETAL | 3.156 | 69.36 | 10799.1 |
| | TERRAPLEN | 42.421 | 773.89 | 152084.0 | REV EXT TERR | 2.373 | 45.86 | 7021.3 |
| | EXC ESCALONADO | 3.122 | 57.39 | 10539.3 | TERR ESCALONADO | 3.122 | 57.39 | 10539.5 |
| 3640.000 | D TIERRA | 1.212 | 24.15 | 21443.5 | ADECUADO COR | 15.016 | 300.32 | 49220.9 |
| | SUELO EST 3 | 8.626 | 172.53 | 28610.4 | VEGETAL | 3.640 | 68.00 | 10867.1 |
| | TERRAPLEN | 47.247 | 907.74 | 152991.8 | REV EXT TERR | 2.282 | 48.09 | 7069.3 |
| | EXC ESCALONADO | 2.329 | 57.54 | 10596.8 | TERR ESCALONADO | 2.329 | 57.54 | 10597.1 |
| 3660.000 | D TIERRA | 1.472 | 25.52 | 21469.0 | ADECUADO COR | 15.016 | 300.32 | 49521.2 |
| | SUELO EST 3 | 8.627 | 172.53 | 28782.9 | VEGETAL | 4.326 | 75.39 | 10942.5 |
| | TERRAPLEN | 52.196 | 983.10 | 153974.9 | REV EXT TERR | 2.140 | 42.75 | 7112.1 |
| | EXC ESCALONADO | 2.370 | 47.64 | 10644.4 | TERR ESCALONADO | 2.370 | 47.64 | 10644.7 |
| 3680.000 | D TIERRA | 1.685 | 31.27 | 21500.3 | ADECUADO COR | 15.016 | 300.32 | 49821.5 |
| | SUELO EST 3 | 8.626 | 172.53 | 28955.4 | VEGETAL | 4.455 | 87.14 | 11029.6 |
| | TERRAPLEN | 54.621 | 1066.49 | 155041.4 | REV EXT TERR | 2.285 | 44.00 | 7156.1 |
| | EXC ESCALONADO | 2.608 | 50.07 | 10694.5 | TERR ESCALONADO | 2.608 | 50.07 | 10694.8 |
| 3700.000 | D TIERRA | 2.064 | 37.57 | 21537.9 | ADECUADO COR | 15.016 | 300.32 | 50121.9 |
| | SUELO EST 3 | 8.626 | 172.53 | 2912 | | | | |

Istram 22.08.08.03 03/11/22 12:21:56 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.08.08.03 03/11/22 12:21:56 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 3880.000 | D TIERRA | 4.595 | 91.57 | 22129.0 | ADECUADO COR | 15.016 | 300.32 | 52661.8 |
| | SUELO EST 3 | 8.626 | 172.53 | 30596.3 | VEGETAL | 3.717 | 72.55 | 11753.1 |
| | TERRAPLEN | 43.839 | 862.40 | 164829.1 | REV EXT TERR | 2.748 | 54.48 | 7569.8 |
| | EXC ESCALONADO | 3.605 | 66.57 | 11219.9 | TERR ESCALONADO | 3.605 | 66.57 | 11220.2 |
| 3900.000 | D TIERRA | 4.715 | 90.12 | 22219.2 | ADECUADO COR | 15.016 | 300.32 | 52962.1 |
| | SUELO EST 3 | 8.626 | 172.53 | 30768.8 | VEGETAL | 3.848 | 68.11 | 11821.2 |
| | TERRAPLEN | 44.816 | 899.30 | 165728.4 | REV EXT TERR | 2.748 | 55.63 | 7625.4 |
| | EXC ESCALONADO | 3.752 | 75.22 | 11295.1 | TERR ESCALONADO | 3.752 | 75.22 | 11295.4 |
| 3920.000 | D TIERRA | 6.457 | 117.90 | 22337.1 | ADECUADO COR | 15.016 | 300.32 | 53262.4 |
| | SUELO EST 3 | 8.626 | 172.53 | 30941.3 | VEGETAL | 4.403 | 82.29 | 11903.5 |
| | TERRAPLEN | 40.919 | 853.63 | 166582.0 | REV EXT TERR | 2.623 | 53.62 | 7679.0 |
| | EXC ESCALONADO | 3.561 | 73.92 | 11369.0 | TERR ESCALONADO | 3.561 | 73.92 | 11369.3 |
| 3940.000 | D TIERRA | 6.954 | 133.45 | 22470.5 | ADECUADO COR | 15.016 | 300.32 | 53562.8 |
| | SUELO EST 3 | 8.626 | 172.53 | 31113.9 | VEGETAL | 4.410 | 88.10 | 11991.6 |
| | TERRAPLEN | 38.479 | 795.47 | 167377.5 | REV EXT TERR | 2.447 | 50.73 | 7729.7 |
| | EXC ESCALONADO | 3.004 | 63.12 | 11432.2 | TERR ESCALONADO | 3.004 | 63.12 | 11432.5 |
| 3960.000 | D TIERRA | 7.447 | 145.91 | 22616.4 | ADECUADO COR | 15.016 | 300.32 | 53863.1 |
| | SUELO EST 3 | 8.626 | 172.53 | 31286.4 | VEGETAL | 3.925 | 84.65 | 12076.2 |
| | TERRAPLEN | 36.387 | 747.17 | 168124.7 | REV EXT TERR | 2.372 | 48.27 | 7778.0 |
| | EXC ESCALONADO | 2.873 | 59.13 | 11491.3 | TERR ESCALONADO | 2.873 | 59.13 | 11491.6 |
| 3980.000 | D TIERRA | 7.840 | 152.29 | 22768.7 | ADECUADO COR | 15.016 | 300.32 | 54163.4 |
| | SUELO EST 3 | 8.626 | 172.53 | 31458.9 | VEGETAL | 3.910 | 79.47 | 12155.7 |
| | TERRAPLEN | 35.499 | 723.18 | 168847.8 | REV EXT TERR | 2.186 | 46.07 | 7824.1 |
| | EXC ESCALONADO | 2.254 | 51.16 | 11542.4 | TERR ESCALONADO | 2.254 | 51.16 | 11542.7 |
| 4000.000 | D TIERRA | 9.791 | 175.19 | 22943.9 | ADECUADO COR | 15.004 | 307.80 | 54471.2 |
| | SUELO EST 3 | 8.626 | 177.03 | 31635.9 | VEGETAL | 2.781 | 70.87 | 12226.6 |
| | TERRAPLEN | 31.377 | 710.72 | 169558.6 | REV EXT TERR | 1.757 | 38.45 | 7862.5 |
| | EXC ESCALONADO | 2.106 | 42.08 | 11584.5 | TERR ESCALONADO | 2.106 | 42.08 | 11584.8 |
| 4020.000 | D TIERRA | 11.738 | 213.82 | 23157.7 | ADECUADO COR | 14.897 | 298.87 | 54770.1 |
| | SUELO EST 3 | 8.626 | 172.53 | 31808.5 | VEGETAL | 0.676 | 33.07 | 12259.7 |
| | TERRAPLEN | 18.682 | 514.93 | 170073.5 | REV EXT TERR | 1.499 | 32.02 | 7894.5 |
| | EXC ESCALONADO | 1.245 | 34.96 | 11619.5 | TERR ESCALONADO | 1.245 | 34.96 | 11619.8 |
| 4040.000 | D TIERRA | 10.239 | 222.89 | 23380.6 | ADECUADO COR | 14.867 | 297.35 | 55067.4 |
| | SUELO EST 3 | 8.626 | 172.53 | 31981.0 | VEGETAL | 4.138 | 61.84 | 12321.5 |
| | TERRAPLEN | 27.668 | 460.87 | 170534.4 | REV EXT TERR | 1.497 | 30.32 | 7924.9 |
| | EXC ESCALONADO | 1.455 | 28.45 | 11647.9 | TERR ESCALONADO | 1.455 | 28.45 | 11648.2 |
| 4060.000 | D TIERRA | 10.315 | 204.17 | 23584.8 | ADECUADO COR | 14.789 | 296.49 | 55363.9 |
| | SUELO EST 3 | 8.626 | 172.52 | 32153.5 | VEGETAL | 4.045 | 84.00 | 12405.5 |
| | TERRAPLEN | 28.153 | 568.14 | 171102.5 | REV EXT TERR | 1.414 | 29.29 | 7954.1 |
| | EXC ESCALONADO | 1.491 | 29.58 | 11677.5 | TERR ESCALONADO | 1.491 | 29.58 | 11677.8 |
| 4080.000 | D TIERRA | 11.011 | 212.66 | 23797.5 | ADECUADO COR | 14.907 | 297.71 | 55661.6 |
| | SUELO EST 3 | 8.626 | 172.52 | 32326.0 | VEGETAL | 4.170 | 82.33 | 12487.8 |
| | TERRAPLEN | 25.406 | 534.79 | 171637.3 | REV EXT TERR | 1.404 | 28.51 | 7982.7 |
| | EXC ESCALONADO | 1.393 | 28.03 | 11705.5 | TERR ESCALONADO | 1.393 | 28.03 | 11705.8 |
| 4100.000 | D TIERRA | 11.028 | 217.68 | 24015.1 | ADECUADO COR | 14.964 | 299.03 | 55960.7 |
| | SUELO EST 3 | 8.626 | 172.53 | 32498.6 | VEGETAL | 4.080 | 82.95 | 12570.8 |
| | TERRAPLEN | 23.729 | 490.16 | 172127.5 | REV EXT TERR | 1.383 | 28.08 | 8010.7 |
| | EXC ESCALONADO | 1.215 | 25.82 | 11731.4 | TERR ESCALONADO | 1.215 | 25.82 | 11731.7 |
| 4120.000 | D TIERRA | 11.985 | 228.59 | 24243.7 | ADECUADO COR | 14.949 | 299.72 | 56260.4 |
| | SUELO EST 3 | 8.626 | 172.53 | 32671.1 | VEGETAL | 4.146 | 80.22 | 12651.0 |
| | TERRAPLEN | 22.112 | 465.60 | 172593.1 | REV EXT TERR | 1.332 | 28.74 | 8039.5 |
| | EXC ESCALONADO | 1.023 | 25.32 | 11756.7 | TERR ESCALONADO | 1.023 | 25.32 | 11757.0 |
| 4140.000 | D TIERRA | 12.201 | 242.14 | 24485.9 | ADECUADO COR | 15.010 | 299.56 | 56559.9 |
| | SUELO EST 3 | 8.626 | 172.53 | 32843.6 | VEGETAL | 3.107 | 74.31 | 12725.3 |
| | TERRAPLEN | 17.749 | 399.02 | 172992.1 | REV EXT TERR | 1.401 | 27.52 | 8067.0 |
| | EXC ESCALONADO | 1.219 | 21.61 | 11778.3 | TERR ESCALONADO | 1.219 | 21.61 | 11778.6 |
| 4160.000 | D TIERRA | 13.006 | 251.48 | 24737.3 | ADECUADO COR | 15.016 | 300.29 | 56860.2 |
| | SUELO EST 3 | 8.626 | 172.53 | 33016.2 | VEGETAL | 3.224 | 69.62 | 12794.9 |
| | TERRAPLEN | 15.347 | 340.08 | 173332.2 | REV EXT TERR | 1.423 | 29.09 | 8096.1 |
| | EXC ESCALONADO | 1.128 | 23.59 | 11801.9 | TERR ESCALONADO | 1.128 | 23.59 | 11802.2 |
| 4180.000 | D TIERRA | 13.898 | 269.55 | 25006.9 | ADECUADO COR | 15.016 | 300.32 | 57160.6 |
| | SUELO EST 3 | 8.627 | 172.53 | 33188.7 | VEGETAL | 3.124 | 68.60 | 12863.5 |
| | TERRAPLEN | 12.270 | 280.84 | 173613.0 | REV EXT TERR | 1.351 | 27.96 | 8124.1 |
| | EXC ESCALONADO | 0.953 | 21.66 | 11823.6 | TERR ESCALONADO | 0.953 | 21.66 | 11823.9 |
| 4200.000 | D TIERRA | 14.520 | 281.60 | 25288.5 | ADECUADO COR | 14.976 | 315.22 | 57475.8 |
| | SUELO EST 3 | 8.626 | 181.53 | 33370.2 | VEGETAL | 1.854 | 67.21 | 12930.7 |
| | TERRAPLEN | 7.278 | 235.19 | 173848.2 | REV EXT TERR | 1.216 | 26.55 | 8150.6 |
| | EXC ESCALONADO | 0.812 | 20.54 | 11844.1 | TERR ESCALONADO | 0.812 | 20.54 | 11844.4 |
| 4220.000 | D TIERRA | 13.778 | 284.44 | 25572.9 | ADECUADO COR | 15.013 | 299.76 | 57775.5 |
| | SUELO EST 3 | 8.626 | 172.53 | 33542.7 | VEGETAL | 3.893 | 51.67 | 12982.4 |
| | TERRAPLEN | 17.958 | 248.46 | 174096.6 | REV EXT TERR | 1.382 | 26.75 | 8177.3 |
| | EXC ESCALONADO | 1.387 | 22.77 | 11866.9 | TERR ESCALONADO | 1.387 | 22.77 | 11867.2 |

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 4240.000 | D TIERRA | 13.401 | 269.58 | 25842.5 | ADECUADO COR | 14.993 | 300.00 | 58075.5 |
| | SUELO EST 3 | 8.626 | 172.53 | 33715.3 | VEGETAL | 3.571 | 74.46 | 13056.8 |
| | TERRAPLEN | 20.291 | 380.64 | 174477.3 | REV EXT TERR | 1.398 | 27.52 | 8204.9 |
| | EXC ESCALONADO | 1.175 | 24.60 | 11891.5 | TERR ESCALONADO | 1.175 | 24.60 | 11891.8 |
| 4260.000 | D TIERRA | 13.114 | 264.16 | 26106.7 | ADECUADO COR | 15.016 | 300.21 | 58375.7 |
| | SUELO EST 3 | 8.626 | 172.53 | 33887.8 | VEGETAL | 3.722 | 75.68 | 13132.5 |
| | TERRAPLEN | 20.884 | 417.11 | 174894.4 | REV EXT TERR | 1.726 | 31.12 | 8236.0 |
| | EXC ESCALONADO | 1.702 | 27.56 | 11919.0 | TERR ESCALONADO | 1.702 | 27.56 | 11919.3 |
| 4280.000 | D TIERRA | 13.420 | 265.41 | 26372.1 | ADECUADO COR | 15.016 | 300.32 | 58676.1 |
| | SUELO EST 3 | 8.626 | 172.53 | 34060.3 | VEGETAL | 3.782 | 74.87 | 13207.4 |
| | TERRAPLEN | 21.165 | 421.09 | 175315.5 | REV EXT TERR | 1.719 | 34.36 | 8270.3 |
| | EXC ESCALONADO | 1.784 | 36.46 | 11955.5 | TERR ESCALONADO | 1.784 | 36.46 | 11955.8 |
| 4300.000 | D TIERRA | 13.407 | 268.05 | 26640.1 | ADECUADO COR | 15.016 | 300.32 | 58976.4 |
| | SUELO EST 3 | 8.626 | 172.53 | 34232.9 | VEGETAL | 3.806 | 76.42 | 13283.8 |
| | TERRAPLEN | 21.640 | 428.63 | 175744.1 | REV EXT TERR | 1.688 | 34.05 | 8304.4 |
| | EXC ESCALONADO | 1.734 | 34.59 | 11990.1 | TERR ESCALONADO | 1.734 | 34.59 | 11990.4 |
| 4320.000 | D TIERRA | 13.024 | 265.03 | 26905.1 | ADECUADO COR | 15.016 | 300.32 | 59276.7 |
| | SUELO EST 3 | 8.626 | 172.53 | 34405.4 | VEGETAL | 3.074 | 62.31 | 13346.1 |
| | TERRAPLEN | 22.613 | 433.88 | 176178.0 | REV EXT TERR | 1.852 | 34.60 | 8339.0 |
| | EXC ESCALONADO | 1.806 | 34.41 | 12024.5 | TERR ESCALONADO | 1.806 | 34.41 | 12024.8 |
| 4340.000 | D TIERRA | 13.245 | 262.69 | 27167.8 | ADECUADO COR | 15.016 | 300.32 | 59577.0 |
| | SUELO EST 3 | 8.627 | 172.53 | 34577.9 | VEGETAL | 2.922 | 68.63 | 13414.7 |
| | TERRAPLEN | 25.188 | 484.20 | 176662.2 | REV EXT TERR | 1.842 | 37.63 | 8376.6 |
| | EXC ESCALONADO | 1.754 | 37.61 | 12062.1 | TERR ESCALONADO | 1.754 | 37.61 | 12062.4 |
| 4360.000 | D TIERRA | 12.951 | 263.64 | 27431.5 | ADECUADO COR | 15.016 | 300.32 | 59877.3 |
| | SUELO EST 3 | 8.627 | 172.53 | 34730.5 | VEGETAL | 3.486 | 54.44 | 13469.2 |
| | TERRAPLEN | 28.555 | 530.76 | 177192.9 | REV EXT TERR | 1.894 | 37.33 | 8414.0 |
| | EXC ESCALONADO | 1.902 | 36.55 | 12098.6 | TERR ESCALONADO | 1.902 | 36.55 | 12098.9 |
| 4380.000 | D TIERRA | 12.931 | 259.01 | 27690.5 | ADECUADO COR | 14.987 | 300.18 | 60177.5 |
| | SUELO EST 3 | 8.626 | 172.53 | 34923.0 | VEGETAL | 3.701 | 60.13 | 13529.3 |
| | TERRAPLEN | 31.358 | 585.18 | 177778.1 | REV EXT TERR | 1.777 | 37.64 | 8451.6 |
| | EXC ESCALONADO | 1.645 | 34.72 | 12133.4 | TERR ESCALONADO | 1.645 | 34.72 | 12133.7 |
| 4400.000 | D TIERRA | 12.648 | 254.61 | 27945.1 | ADECUADO COR | 15.016 | 299.82 | 60477.3 |
| | SUELO EST 3 | 8.626 | 172.53 | 35095.5 | VEGETAL | 3.295 | 60.84 | 13590.2 |
| | TERRAPLEN | 33.327 | 637.78 | 178415.9 | REV EXT TERR | 2.017 | 38.52 | 8490.1 |
| | EXC ESCALONADO | 1.719 | 33.08 | 12166.4 | TERR ESCALONADO | 1.719 | 33.08 | 12166.7 |
| 4420.000 | D TIERRA | 12.475 | 249.69 | 28194.8 | ADECUADO COR | 15.016 | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
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Istram 22.08.08.03 03/11/22 12:21:56 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 4600.000 | D TIERRA | 6.452 | 103.00 | 30124.4 | ADECUADO COR | 13.503 | 210.15 | 63437.4 |
| | SUELO EST 3 | 8.101 | 124.86 | 36801.4 | VEGETAL | 0.992 | 16.67 | 14354.2 |
| | MUROS | 0.148 | 2.17 | 101.9 | TERRAPLEN | 38.021 | 693.62 | 187692.7 |
| | REV EXT TERR | 0.000 | 10.89 | 9014.5 | EXC ESCALONADO | 3.087 | 45.52 | 12905.1 |
| | TERR ESCALONADO | 3.087 | 45.52 | 12905.4 | | | | |
| 4620.000 | D TIERRA | 8.264 | 159.30 | 30283.7 | ADECUADO COR | 15.366 | 300.00 | 63737.4 |
| | SUELO EST 3 | 8.837 | 174.19 | 36975.6 | VEGETAL | 4.572 | 81.04 | 14435.2 |
| | MUROS | 0.000 | 0.68 | 102.6 | TERRAPLEN | 68.250 | 1217.25 | 188909.9 |
| | REV EXT TERR | 3.756 | 56.62 | 9071.2 | EXC ESCALONADO | 5.406 | 97.69 | 13002.7 |
| | TERR ESCALONADO | 5.406 | 97.69 | 13003.0 | | | | |
| 4640.000 | D TIERRA | 8.087 | 164.05 | 30447.7 | ADECUADO COR | 15.366 | 307.32 | 64044.7 |
| | SUELO EST 3 | 8.837 | 176.73 | 37152.3 | VEGETAL | 5.016 | 88.55 | 14523.8 |
| | TERRAPLEN | 71.073 | 1386.75 | 190296.7 | REV EXT TERR | 3.852 | 75.92 | 9147.1 |
| | EXC ESCALONADO | 5.799 | 112.16 | 13114.9 | TERR ESCALONADO | 5.799 | 112.16 | 13115.2 |
| | D TIERRA | 8.929 | 174.84 | 30622.6 | ADECUADO COR | 15.366 | 307.32 | 64352.0 |
| | SUELO EST 3 | 8.837 | 176.73 | 37329.0 | VEGETAL | 3.981 | 95.46 | 14619.2 |
| | TERRAPLEN | 69.171 | 1394.41 | 191691.1 | REV EXT TERR | 3.878 | 76.75 | 9223.8 |
| | EXC ESCALONADO | 5.851 | 116.65 | 13231.5 | TERR ESCALONADO | 5.851 | 116.65 | 13231.8 |
| 4680.000 | D TIERRA | 8.239 | 172.36 | 30794.9 | ADECUADO COR | 15.366 | 307.32 | 64659.4 |
| | SUELO EST 3 | 8.837 | 176.73 | 37505.8 | VEGETAL | 5.360 | 98.92 | 14718.1 |
| | TERRAPLEN | 73.887 | 1431.49 | 193122.6 | REV EXT TERR | 4.050 | 79.33 | 9303.2 |
| | EXC ESCALONADO | 6.006 | 117.96 | 13349.5 | TERR ESCALONADO | 6.006 | 117.96 | 13349.8 |
| 4700.000 | D TIERRA | 7.718 | 159.82 | 30954.7 | ADECUADO COR | 15.016 | 303.12 | 64962.5 |
| | SUELO EST 3 | 8.627 | 174.21 | 37680.0 | VEGETAL | 5.214 | 106.03 | 14824.2 |
| | TERRAPLEN | 76.716 | 1493.43 | 194616.0 | REV EXT TERR | 4.248 | 82.48 | 9385.7 |
| | EXC ESCALONADO | 6.550 | 125.72 | 13475.2 | TERR ESCALONADO | 6.550 | 125.72 | 13475.5 |
| 4720.000 | D TIERRA | 6.970 | 146.86 | 31101.6 | ADECUADO COR | 15.016 | 300.32 | 65262.8 |
| | SUELO EST 3 | 8.627 | 172.53 | 37852.5 | VEGETAL | 5.500 | 102.70 | 14926.9 |
| | TERRAPLEN | 82.210 | 1606.35 | 196222.4 | REV EXT TERR | 4.377 | 86.48 | 9472.1 |
| | EXC ESCALONADO | 6.737 | 133.05 | 13608.3 | TERR ESCALONADO | 6.737 | 133.05 | 13608.6 |
| 4740.000 | D TIERRA | 5.577 | 121.11 | 31222.7 | ADECUADO COR | 15.016 | 300.32 | 65563.1 |
| | SUELO EST 3 | 8.627 | 172.53 | 38025.1 | VEGETAL | 5.493 | 110.32 | 15037.2 |
| | TERRAPLEN | 87.530 | 1698.23 | 197920.6 | REV EXT TERR | 4.522 | 89.25 | 9561.4 |
| | EXC ESCALONADO | 7.118 | 139.29 | 13747.6 | TERR ESCALONADO | 7.118 | 139.29 | 13747.9 |
| 4760.000 | D TIERRA | 5.885 | 112.83 | 31335.5 | ADECUADO COR | 12.792 | 289.20 | 65852.3 |
| | SUELO EST 3 | 8.627 | 172.53 | 38197.6 | VEGETAL | 4.999 | 100.64 | 15137.8 |
| | TERRAPLEN | 91.648 | 1785.60 | 199706.2 | REV EXT TERR | 4.576 | 90.70 | 9652.1 |
| | EXC ESCALONADO | 7.167 | 142.39 | 13890.0 | TERR ESCALONADO | 7.167 | 142.40 | 13890.3 |
| 4780.000 | D TIERRA | 5.676 | 115.07 | 31450.6 | ADECUADO COR | 13.541 | 263.25 | 66115.6 |
| | SUELO EST 3 | 8.627 | 172.53 | 38370.1 | VEGETAL | 4.653 | 89.75 | 15227.6 |
| | TERRAPLEN | 95.200 | 1865.44 | 201571.7 | REV EXT TERR | 4.690 | 92.59 | 9744.7 |
| | EXC ESCALONADO | 7.448 | 147.86 | 14037.8 | TERR ESCALONADO | 7.449 | 147.88 | 14038.2 |
| 4800.000 | D TIERRA | 4.892 | 107.32 | 31557.9 | ADECUADO COR | 14.548 | 280.89 | 66396.4 |
| | SUELO EST 3 | 8.627 | 172.53 | 38542.6 | VEGETAL | 5.491 | 103.93 | 15331.5 |
| | TERRAPLEN | 107.387 | 2019.28 | 203590.9 | REV EXT TERR | 4.871 | 95.54 | 9840.2 |
| | EXC ESCALONADO | 8.347 | 156.11 | 14193.9 | TERR ESCALONADO | 8.347 | 156.13 | 14194.3 |
| 4820.000 | D TIERRA | 4.547 | 93.72 | 31651.6 | ADECUADO COR | 15.016 | 297.44 | 66693.9 |
| | SUELO EST 3 | 8.626 | 172.53 | 38715.2 | VEGETAL | 5.808 | 112.70 | 15444.2 |
| | TERRAPLEN | 115.751 | 2236.48 | 205827.4 | REV EXT TERR | 5.036 | 99.02 | 9939.2 |
| | EXC ESCALONADO | 8.490 | 173.67 | 14367.6 | TERR ESCALONADO | 8.491 | 173.68 | 14368.0 |
| 4840.000 | D TIERRA | 4.909 | 91.85 | 31743.5 | ADECUADO COR | 15.016 | 300.32 | 66994.2 |
| | SUELO EST 3 | 8.627 | 172.53 | 38887.7 | VEGETAL | 3.154 | 104.67 | 15548.9 |
| | TERRAPLEN | 118.686 | 2375.91 | 208203.3 | REV EXT TERR | 5.145 | 102.01 | 10041.2 |
| | EXC ESCALONADO | 8.082 | 164.67 | 14532.3 | TERR ESCALONADO | 8.083 | 164.69 | 14532.7 |
| 4860.000 | D TIERRA | 0.000 | 56.93 | 31800.4 | ADECUADO COR | 13.909 | 291.36 | 67285.6 |
| | SUELO EST 3 | 8.153 | 168.70 | 39056.4 | VEGETAL | 1.874 | 67.86 | 15616.8 |
| | MUROS | 0.138 | 1.12 | 103.7 | TERRAPLEN | 72.936 | 2010.37 | 210213.7 |
| | REV EXT TERR | 2.511 | 81.80 | 10123.0 | EXC ESCALONADO | 7.461 | 159.10 | 14691.4 |
| | TERR ESCALONADO | 7.461 | 159.11 | 14691.8 | | | | |
| 4880.000 | ADECUADO COR | 0.000 | 97.98 | 67383.6 | SUELO EST 3 | 0.000 | 58.77 | 39115.2 |
| | VEGETAL | 0.000 | 5.79 | 15622.5 | MUROS | 0.000 | 1.15 | 104.8 |
| | TERRAPLEN | 0.000 | 370.60 | 210584.3 | REV EXT TERR | 0.000 | 0.21 | 10123.3 |
| | EXC ESCALONADO | 0.000 | 59.92 | 14751.3 | TERR ESCALONADO | 0.000 | 59.92 | 14751.7 |
| 4900.000 | SANEO | 5.989 | 108.79 | 4242.8 | D TIERRA | 3.436 | 22.02 | 31822.4 |
| | ADECUADO COR | 15.191 | 205.74 | 67589.3 | SUELO EST 3 | 8.732 | 122.04 | 39237.2 |
| | VEGETAL | 5.694 | 35.80 | 15658.3 | MUROS | 0.000 | 2.68 | 107.5 |
| | TERRAPLEN | 137.178 | 1565.52 | 212149.8 | REV EXT TERR | 5.494 | 20.99 | 10144.2 |
| | EXC ESCALONADO | 11.120 | 209.54 | 14960.8 | TERR ESCALONADO | 11.121 | 209.55 | 14961.2 |
| 4920.000 | SANEO | 4.742 | 113.22 | 4356.0 | D TIERRA | 7.382 | 137.16 | 31959.6 |
| | ADECUADO COR | 15.371 | 306.90 | 67896.2 | SUELO EST 3 | 8.839 | 176.48 | 39413.7 |
| | VEGETAL | 6.278 | 125.14 | 15783.5 | TERRAPLEN | 145.481 | 2849.83 | 214999.6 |
| | REV EXT TERR | 5.491 | 109.87 | 10254.1 | EXC ESCALONADO | 12.318 | 226.54 | 15187.4 |
| | TERR ESCALONADO | 12.318 | 226.55 | 15187.8 | | | | |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 4940.000 | SANEO | 4.330 | 115.98 | 4472.0 | D TIERRA | 6.641 | 139.64 | 32099.2 |
| | ADECUADO COR | 15.589 | 308.96 | 68205.2 | SUELO EST 3 | 8.971 | 177.71 | 39591.4 |
| | VEGETAL | 5.990 | 119.73 | 15903.2 | TERRAPLEN | 142.856 | 2909.44 | 217909.1 |
| | REV EXT TERR | 5.444 | 109.49 | 10363.6 | EXC ESCALONADO | 9.786 | 214.28 | 15401.7 |
| | TERR ESCALONADO | 9.787 | 214.28 | 15402.1 | | | | |
| 4960.000 | SANEO | 4.410 | 99.11 | 4571.1 | D TIERRA | 6.228 | 125.78 | 32225.0 |
| | ADECUADO COR | 16.150 | 317.40 | 68522.5 | SUELO EST 3 | 9.307 | 182.78 | 39774.2 |
| | VEGETAL | 6.830 | 131.26 | 16034.5 | TERRAPLEN | 143.660 | 2875.19 | 220784.3 |
| | REV EXT TERR | 5.302 | 107.88 | 10471.5 | EXC ESCALONADO | 10.440 | 195.85 | 15597.5 |
| | TERR ESCALONADO | 10.441 | 195.86 | 15597.9 | | | | |
| 4980.000 | SANEO | 0.000 | 22.05 | 4593.1 | D TIERRA | 6.663 | 129.87 | 32354.9 |
| | ADECUADO COR | 16.710 | 328.60 | 68851.1 | SUELO EST 3 | 9.643 | 189.50 | 39963.7 |
| | VEGETAL | 6.775 | 138.49 | 16173.0 | TERRAPLEN | 137.956 | 2798.08 | 223582.4 |
| | REV EXT TERR | 5.193 | 105.12 | 10576.6 | EXC ESCALONADO | 9.646 | 194.50 | 15792.0 |
| | TERR ESCALONADO | 9.647 | 194.51 | 15792.4 | | | | |
| 5000.000 | D TIERRA | 6.769 | 132.94 | 32487.8 | ADECUADO COR | 17.061 | 348.66 | 69199.8 |
| | SUELO EST 3 | 9.979 | 202.07 | 40165.7 | VEGETAL | 7.409 | 151.91 | 16324.9 |
| | TERRAPLEN | 138.397 | 2875.87 | 226458.2 | REV EXT TERR | 5.227 | 105.24 | 10681.8 |
| | EXC ESCALONADO | 9.032 | 188.97 | 15981.0 | TERR ESCALONADO | 9.033 | 188.98 | 15981.4 |
| 5020.000 | D TIERRA | 7.234 | 136.77 | 32624.6 | ADECUADO COR | 16.762 | 338.26 | 69538.1 |
| | SUELO EST 3 | 10.315 | 202.94 | 40368.7 | VEGETAL | 7.229 | 146.69 | 16471.6 |
| | TERRAPLEN | 137.991 | 2774.72 | 229232.9 | REV EXT TERR | 5.102 | 103.64 | 10785.5 |
| | EXC ESCALONADO | 8.892 | 181.24 | 16162.2 | TERR ESCALONADO | 8.893 | 181.25 | 16162.7 |
| 5040.000 | D TIERRA | 8.288 | 154.19 | 32778.8 | ADECUADO COR | 18.390 | 340.31 | 69878.4 |
| | SUELO EST 3 | 10.651 | 209.66 | 40578.3 | VEGETAL | 7.562 | 148.07 | 16619.6 |
| | TERRAPLEN | 138.423 | 2763.52 | 231996.4 | REV EXT TERR | 4.962 | 100.64 | 10886.1 |
| | EXC ESCALONADO | 9.022 | 177.60 | 16339.8 | TERR ESCALONADO | 9.023 | 177.61 | 16340.3 |
| 5060.000 | D TIERRA | 11.426 | 198.22 | 32977.0 | ADECUADO COR | 18.811 | 372.70 | 70251.1 |
| | SUELO EST 3 | 10.903 | 215.96 | 40794.3 | VEGETAL | 6.524 | 136.36 | 16756.0 |
| | TERRAPLEN | 132.111 | 2712.85 | 234709.3 | REV EXT TERR | 4.656 | 96.09 | 10982.2 |
| | EXC ESCALONADO | 7.488 | 163.12 | 16503.0 | TERR ESCALONADO | 7.488 | 163.13 | 16503.4 |
| 5080.000 | D TIERRA | 12.696 | 237.72 | 33214.7 | ADECUADO COR | 18.868 | 377.23 | 70628.3 |
| | SUELO EST 3 | 10.937 | 218.68 | 41013.0 | VEGETAL | 6.996 | 135.43 | 16891.4 |
| | TERRAPLEN | 123.966 | 2565.55 | 237274.9 | REV EXT TERR | 4.541 | 92.11 | 11074.3 |
| | EXC ESCALONADO | 7.080 | 147.08 | 16650.0 | TERR ESCALONADO | 7.080 | 147.08 | 16650.5 |
| 5100.000 | D TIERRA | 15.320 | 281.10 | 33495.8 | ADECUADO COR | 18.869 | 377.37 | 71005.7 |
| | SUELO EST 3 | 10.938 | 218.76 | 41231.7 | VEGETAL | 6.583 | 132.34 | 17023.8 |
| | TERRAPLEN | 114.898 | 2383.98 | 239658 | | | | |

Istram 22.08.08.03 03/11/22 12:21:56 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.08.08.03 03/11/22 12:21:57 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 5280.000 | D TIERRA | 18.081 | 347.85 | 37253.0 | ADECUADO COR | 15.660 | 313.23 | 74275.8 |
| | SUELO EST 3 | 9.205 | 184.12 | 43133.5 | VEGETAL | 5.223 | 96.18 | 18013.7 |
| | MUROS | 0.013 | 0.24 | 108.3 | TERRAPLEN | 75.161 | 1517.26 | 256475.3 |
| | REV EXT TERR | 1.890 | 39.60 | 11793.6 | EXC ESCALONADO | 3.318 | 62.59 | 17764.3 |
| | TERR ESCALONADO | 3.318 | 62.59 | 17764.7 | | | | |
| 5300.000 | D TIERRA | 16.853 | 366.13 | 37619.1 | ADECUADO COR | 15.660 | 313.29 | 74589.1 |
| | SUELO EST 3 | 9.204 | 184.15 | 43317.7 | VEGETAL | 5.565 | 111.81 | 18125.5 |
| | MUROS | 0.033 | 0.28 | 108.6 | TERRAPLEN | 79.508 | 1526.66 | 258002.0 |
| | REV EXT TERR | 1.925 | 37.89 | 11831.5 | EXC ESCALONADO | 3.346 | 64.83 | 17829.1 |
| | TERR ESCALONADO | 3.346 | 64.83 | 17829.6 | | | | |
| 5320.000 | D TIERRA | 0.000 | 6.10 | 37625.2 | ADECUADO COR | 0.000 | 5.67 | 74594.8 |
| | SUELO EST 3 | 0.000 | 3.33 | 43321.0 | VEGETAL | 0.000 | 2.01 | 18127.5 |
| | MUROS | 0.000 | 0.01 | 108.6 | TERRAPLEN | 0.000 | 28.86 | 258030.8 |
| | REV EXT TERR | 0.000 | 0.70 | 11832.2 | EXC ESCALONADO | 0.000 | 1.20 | 17830.3 |
| | TERR ESCALONADO | 0.000 | 1.20 | 17830.8 | | | | |
| 5460.000 | SANE0 | 40.803 | 469.94 | 5063.1 | D TIERRA | 13.805 | 139.47 | 37764.7 |
| | ADECUADO COR | 15.661 | 171.30 | 74766.1 | SUELO EST 3 | 9.205 | 100.69 | 43421.7 |
| | VEGETAL | 0.815 | 8.86 | 18136.3 | MUROS | 0.009 | 0.17 | 108.8 |
| | TERRAPLEN | 96.626 | 1118.15 | 259149.0 | REV EXT TERR | 1.651 | 18.42 | 11850.6 |
| | EXC ESCALONADO | 13.504 | 135.96 | 17966.3 | TERR ESCALONADO | 13.504 | 135.96 | 17966.7 |
| 5480.000 | SANE0 | 39.887 | 824.95 | 5888.0 | D TIERRA | 14.239 | 281.81 | 38046.5 |
| | ADECUADO COR | 15.662 | 313.22 | 75079.3 | SUELO EST 3 | 9.206 | 184.11 | 43605.8 |
| | VEGETAL | 0.739 | 15.35 | 18151.7 | MUROS | 0.016 | 0.24 | 109.0 |
| | TERRAPLEN | 90.970 | 1888.95 | 261037.9 | REV EXT TERR | 1.635 | 32.96 | 11883.5 |
| | EXC ESCALONADO | 12.424 | 235.76 | 18202.0 | TERR ESCALONADO | 12.424 | 235.76 | 18202.5 |
| 5500.000 | SANE0 | 39.120 | 799.89 | 6687.9 | D TIERRA | 14.629 | 286.27 | 38332.8 |
| | ADECUADO COR | 15.675 | 313.30 | 75392.6 | SUELO EST 3 | 9.213 | 184.15 | 43790.0 |
| | VEGETAL | 0.686 | 13.84 | 18165.5 | MUROS | 0.020 | 0.39 | 109.4 |
| | TERRAPLEN | 87.096 | 1782.54 | 262820.5 | REV EXT TERR | 1.563 | 31.90 | 11915.4 |
| | EXC ESCALONADO | 12.551 | 238.91 | 18440.9 | TERR ESCALONADO | 12.551 | 238.91 | 18441.4 |
| 5520.000 | SANE0 | 38.326 | 772.34 | 7460.3 | D TIERRA | 14.922 | 296.38 | 38629.2 |
| | ADECUADO COR | 15.755 | 314.15 | 75706.7 | SUELO EST 3 | 9.261 | 184.65 | 43974.6 |
| | VEGETAL | 0.790 | 14.90 | 18180.4 | MUROS | 0.022 | 0.42 | 109.8 |
| | TERRAPLEN | 86.771 | 1737.51 | 264558.0 | REV EXT TERR | 1.574 | 31.45 | 11946.9 |
| | EXC ESCALONADO | 15.413 | 239.92 | 18680.9 | TERR ESCALONADO | 15.413 | 239.92 | 18681.3 |
| 5540.000 | SANE0 | 37.552 | 767.94 | 8228.2 | D TIERRA | 14.543 | 293.67 | 38922.8 |
| | ADECUADO COR | 15.915 | 316.56 | 76023.3 | SUELO EST 3 | 9.356 | 186.09 | 44160.7 |
| | VEGETAL | 0.664 | 14.84 | 18195.3 | MUROS | 0.024 | 0.46 | 110.3 |
| | TERRAPLEN | 89.367 | 1776.12 | 266334.1 | REV EXT TERR | 1.469 | 30.74 | 11977.6 |
| | EXC ESCALONADO | 15.908 | 267.21 | 18948.1 | TERR ESCALONADO | 15.908 | 267.21 | 18948.5 |
| 5560.000 | SANE0 | 43.387 | 812.24 | 9040.4 | D TIERRA | 14.953 | 287.59 | 39210.4 |
| | ADECUADO COR | 16.107 | 320.30 | 76343.6 | SUELO EST 3 | 9.472 | 188.33 | 44349.0 |
| | VEGETAL | 0.658 | 13.82 | 18209.1 | MUROS | 0.022 | 0.47 | 110.7 |
| | TERRAPLEN | 104.821 | 1919.72 | 268253.8 | REV EXT TERR | 1.723 | 32.48 | 12010.1 |
| | EXC ESCALONADO | 12.369 | 318.74 | 19266.8 | TERR ESCALONADO | 12.369 | 318.74 | 19267.3 |
| 5580.000 | SANE0 | 42.918 | 891.00 | 9931.4 | D TIERRA | 16.673 | 316.92 | 39527.3 |
| | ADECUADO COR | 16.335 | 324.30 | 76667.9 | SUELO EST 3 | 9.611 | 190.75 | 44539.8 |
| | VEGETAL | 1.169 | 15.91 | 18225.0 | MUROS | 0.014 | 0.36 | 111.1 |
| | TERRAPLEN | 113.978 | 2213.73 | 270467.6 | REV EXT TERR | 1.800 | 35.23 | 12045.3 |
| | EXC ESCALONADO | 18.461 | 288.86 | 19555.7 | TERR ESCALONADO | 18.461 | 288.86 | 19556.1 |
| 5600.000 | SANE0 | 29.389 | 782.78 | 10714.2 | D TIERRA | 18.283 | 352.91 | 39880.3 |
| | ADECUADO COR | 16.658 | 329.76 | 76997.6 | SUELO EST 3 | 9.803 | 194.03 | 44733.8 |
| | VEGETAL | 2.405 | 31.71 | 18256.7 | MUROS | 0.009 | 0.21 | 111.3 |
| | TERRAPLEN | 111.343 | 2303.63 | 272771.2 | REV EXT TERR | 1.865 | 36.86 | 12082.2 |
| | EXC ESCALONADO | 20.928 | 326.60 | 19882.3 | TERR ESCALONADO | 20.928 | 326.60 | 19882.7 |
| 5620.000 | SANE0 | 5.123 | 352.40 | 11066.6 | D TIERRA | 19.386 | 375.75 | 40256.0 |
| | ADECUADO COR | 17.057 | 337.20 | 77334.8 | SUELO EST 3 | 10.042 | 198.48 | 44932.3 |
| | VEGETAL | 4.512 | 69.03 | 18325.7 | MUROS | 0.000 | 0.15 | 111.5 |
| | TERRAPLEN | 100.742 | 2126.09 | 274897.3 | REV EXT TERR | 2.150 | 40.95 | 12123.2 |
| | EXC ESCALONADO | 3.802 | 307.16 | 20189.4 | TERR ESCALONADO | 3.802 | 307.16 | 20189.9 |
| 5640.000 | SANE0 | 0.000 | 23.65 | 11090.3 | D TIERRA | 23.365 | 433.23 | 40689.2 |
| | ADECUADO COR | 18.689 | 361.07 | 77695.9 | SUELO EST 3 | 10.932 | 211.74 | 45144.0 |
| | VEGETAL | 5.234 | 100.48 | 18426.2 | TERRAPLEN | 102.983 | 2014.76 | 276912.0 |
| | REV EXT TERR | 2.280 | 45.07 | 12168.2 | EXC ESCALONADO | 3.537 | 72.95 | 20262.4 |
| | TERR ESCALONADO | 3.537 | 72.95 | 20262.8 | | | | |
| 5660.000 | D TIERRA | 25.313 | 488.53 | 41177.8 | ADECUADO COR | 13.518 | 290.50 | 77986.4 |
| | SUELO EST 3 | 8.021 | 172.01 | 45316.0 | VEGETAL | 0.715 | 27.05 | 18453.3 |
| | MUROS | 0.000 | 1.87 | 113.3 | TERRAPLEN | 22.580 | 732.65 | 277644.7 |
| | REV EXT TERR | 0.000 | 24.07 | 12192.3 | EXC ESCALONADO | 2.452 | 51.95 | 20314.3 |
| | TERR ESCALONADO | 2.452 | 51.95 | 20314.8 | | | | |

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 5680.000 | D TIERRA | 27.478 | 531.49 | 41709.2 | ADECUADO COR | 13.628 | 270.95 | 78257.4 |
| | SUELO EST 3 | 8.088 | 160.78 | 45476.8 | VEGETAL | 0.714 | 14.33 | 18467.6 |
| | TERRAPLEN | 20.784 | 429.51 | 278074.2 | EXC ESCALONADO | 2.488 | 49.39 | 20363.7 |
| | TERR ESCALONADO | 2.488 | 49.39 | 20364.2 | | | | |
| 5700.000 | D TIERRA | 27.383 | 546.72 | 42256.0 | REVEST DESMON | 0.093 | 0.88 | 6.2 |
| | ADECUADO COR | 13.898 | 275.68 | 78533.0 | SUELO EST 3 | 8.253 | 163.65 | 45640.5 |
| | VEGETAL | 0.760 | 14.69 | 18482.3 | MUROS | 0.112 | 0.26 | 113.6 |
| | TERRAPLEN | 22.191 | 429.38 | 278503.6 | REV EXT TERR | 0.454 | 0.62 | 12192.9 |
| | EXC ESCALONADO | 2.514 | 50.10 | 20413.8 | TERR ESCALONADO | 2.514 | 50.10 | 20414.3 |
| 5720.000 | D TIERRA | 22.240 | 413.02 | 42669.0 | REVEST DESMON | 0.000 | 0.14 | 6.4 |
| | ADECUADO COR | 12.746 | 247.49 | 78780.5 | SUELO EST 3 | 7.648 | 148.30 | 45788.8 |
| | VEGETAL | 0.712 | 15.18 | 18497.5 | MUROS | 0.117 | 2.27 | 115.9 |
| | TERRAPLEN | 19.845 | 419.92 | 278923.5 | REV EXT TERR | 0.672 | 20.60 | 12213.5 |
| | EXC ESCALONADO | 2.689 | 51.77 | 20465.6 | TERR ESCALONADO | 2.689 | 51.77 | 20466.0 |
| 5740.000 | D TIERRA | 25.660 | 469.34 | 43138.3 | ADECUADO COR | 13.896 | 263.42 | 79044.0 |
| | SUELO EST 3 | 8.259 | 157.74 | 45946.5 | VEGETAL | 0.742 | 13.85 | 18511.3 |
| | MUROS | 0.000 | 0.20 | 116.1 | TERRAPLEN | 15.760 | 357.91 | 279281.4 |
| | REV EXT TERR | 0.000 | 0.66 | 12214.2 | EXC ESCALONADO | 2.548 | 52.76 | 20518.3 |
| | TERR ESCALONADO | 2.548 | 52.76 | 20518.8 | | | | |
| 5760.000 | D TIERRA | 24.586 | 508.01 | 43646.3 | REVEST DESMON | 0.035 | 0.10 | 6.5 |
| | ADECUADO COR | 13.896 | 277.93 | 79321.9 | SUELO EST 3 | 8.262 | 165.20 | 46111.7 |
| | VEGETAL | 0.577 | 13.23 | 18524.6 | TERRAPLEN | 9.545 | 250.10 | 279531.5 |
| | EXC ESCALONADO | 2.290 | 50.42 | 20568.8 | TERR ESCALONADO | 2.290 | 50.42 | 20569.2 |
| 5780.000 | D TIERRA | 20.675 | 450.98 | 44097.3 | REVEST DESMON | 0.000 | 0.18 | 6.7 |
| | ADECUADO COR | 13.896 | 277.92 | 79599.8 | SUELO EST 3 | 8.261 | 165.23 | 46277.0 |
| | VEGETAL | 0.365 | 9.19 | 18533.7 | TERRAPLEN | 4.108 | 131.47 | 279663.0 |
| | EXC ESCALONADO | 1.363 | 34.42 | 20603.2 | TERR ESCALONADO | 1.363 | 34.42 | 20603.6 |
| 5800.000 | D TIERRA | 10.718 | 298.56 | 44395.9 | ADECUADO COR | 13.246 | 260.51 | 79860.3 |
| | SUELO EST 3 | 7.948 | 156.14 | 46433.1 | VEGETAL | 0.023 | 3.23 | 18537.0 |
| | TERRAPLEN | 0.952 | 45.17 | 279708.2 | REV EXT TERR | 0.045 | 0.30 | 12214.5 |
| | EXC ESCALONADO | 0.679 | 19.51 | 20622.7 | TERR ESCALONADO | 0.679 | 19.51 | 20623.1 |
| 5820.000 | D TIERRA | 13.594 | 223.45 | 44619.3 | ADECUADO COR | 13.931 | 277.51 | 80137.8 |
| | SUELO EST 3 | 8.161 | 163.03 | 46596.1 | VEGETAL | 0.000 | 1.33 | 18538.3 |
| | TERRAPLEN | 6.551 | 193.03 | 279901.2 | REV EXT TERR | 1.359 | 18.10 | 12232.6 |
| | EXC ESCALONADO | 0.156 | 9.67 | 20632.4 | TERR ESCALONADO | 0.156 | 9.67 | 20632.8 |
| 5840.000 | D TIERRA | 17.846 | 313.44 | 44932.8 | ADECUADO COR | 13.930 | 278.61 | 80416.4 |
| | SUELO EST 3 | 8.160 | 163.21 | 46759.3 | TERRAPLEN | 23.774 | 798.09 | 280699.3 |
| | REV EXT TERR | 1.837 | 32.07 | 12264.6 | EXC ESCALONADO | 1.951 | 24.52 | 20656.9 |
| | TERR ESCALONADO | 1.951 | 24.52 | 20657.3 | | | | |
| 5860.000 | D TIERRA | 0.000 | 220.64 | 45153.4 | ADECUADO COR | 0.000 | 206.27 | 80622.7 |
| | SUELO EST 3 | 0.000 | 122.19 | 46881.5 | TERRAPLEN | 0.000 | 923.42 | 281622.7 |
| | REV EXT TERR | 0.000 | 22.45 | 12287.1 | EXC ESCALONADO | 0.000 | 35.98 | 20692.9 |
| | | | | | | | | |

Istram 22.08.08.03 03/11/22 12:21:58 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.08.08.03 03/11/22 12:21:58 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 6140.000 | ADECUADO COR | 13.399 | 267.97 | 82484.3 | SUELO EST 3 | 8.039 | 160.78 | 47976.5 |
| | VEGETAL | 0.264 | 1.75 | 19990.5 | TERRAPLEN | 18.847 | 621.33 | 296528.4 |
| | EXC ESCALONADO | 1.325 | 24.29 | 21250.6 | TERRAPLEN | 1.325 | 24.29 | 21251.1 |
| 6160.000 | ADECUADO COR | 13.399 | 267.97 | 82752.3 | SUELO EST 3 | 8.039 | 160.78 | 48137.3 |
| | VEGETAL | 0.421 | 7.07 | 19997.5 | TERRAPLEN | 18.714 | 370.19 | 296898.6 |
| | EXC ESCALONADO | 1.701 | 30.15 | 21280.8 | TERRAPLEN | 1.701 | 30.15 | 21281.3 |
| 6180.000 | ADECUADO COR | 13.398 | 267.97 | 83020.3 | SUELO EST 3 | 8.039 | 160.78 | 48298.1 |
| | VEGETAL | 0.571 | 8.63 | 20006.2 | TERRAPLEN | 20.804 | 390.33 | 297288.9 |
| | EXC ESCALONADO | 2.256 | 39.61 | 21320.4 | TERRAPLEN | 2.256 | 39.62 | 21320.9 |
| 6200.000 | D TIERRA | 0.003 | 0.00 | 45398.2 | ADECUADO COR | 13.489 | 268.40 | 83288.7 |
| | SUELO EST 3 | 8.093 | 161.04 | 48459.1 | VEGETAL | 0.691 | 12.96 | 20019.1 |
| | TERRAPLEN | 22.490 | 436.95 | 297725.9 | EXC ESCALONADO | 2.628 | 48.54 | 21368.9 |
| | TERRAPLEN | 2.628 | 48.54 | 21369.4 | | | | |
| 6220.000 | D TIERRA | 0.000 | 0.81 | 45399.0 | ADECUADO COR | 1.855 | 239.96 | 83528.6 |
| | SUELO EST 3 | 1.113 | 143.97 | 48603.1 | VEGETAL | 0.377 | 12.87 | 20032.0 |
| | MUROS | 0.000 | 0.22 | 118.2 | TERRAPLEN | 20.702 | 501.32 | 298227.2 |
| | EXC ESCALONADO | 1.539 | 71.01 | 21440.0 | TERRAPLEN | 1.539 | 71.01 | 21440.4 |
| 6240.000 | SANE0 | 5.846 | 9.50 | 11550.8 | D TIERRA | 0.891 | 5.36 | 45404.4 |
| | ADECUADO COR | 16.881 | 70.05 | 83598.7 | SUELO EST 3 | 10.165 | 42.21 | 48645.3 |
| | VEGETAL | 1.141 | 3.21 | 20035.2 | MUROS | 0.161 | 0.12 | 118.3 |
| | TERRAPLEN | 87.465 | 195.19 | 298422.4 | REV EXT TERR | 1.525 | 1.12 | 12598.3 |
| | EXC ESCALONADO | 7.698 | 20.45 | 21460.4 | TERRAPLEN | 7.698 | 20.45 | 21460.9 |
| 6260.000 | SANE0 | 3.928 | 94.57 | 11645.3 | D TIERRA | 1.787 | 26.44 | 45430.8 |
| | ADECUADO COR | 17.018 | 336.76 | 83935.4 | SUELO EST 3 | 10.287 | 203.25 | 48848.5 |
| | VEGETAL | 5.147 | 54.40 | 20089.6 | MUROS | 0.000 | 1.97 | 120.3 |
| | TERRAPLEN | 125.315 | 1979.33 | 300401.7 | REV EXT TERR | 2.758 | 40.27 | 12638.6 |
| | EXC ESCALONADO | 4.474 | 107.41 | 21567.8 | TERRAPLEN | 4.474 | 107.41 | 21568.3 |
| 6280.000 | SANE0 | 2.650 | 73.30 | 11718.6 | D TIERRA | 3.216 | 50.05 | 45480.9 |
| | ADECUADO COR | 17.209 | 341.50 | 84276.9 | SUELO EST 3 | 10.134 | 205.02 | 49053.6 |
| | VEGETAL | 5.113 | 101.61 | 20191.2 | TERRAPLEN | 115.858 | 2426.22 | 302827.9 |
| | REV EXT TERR | 2.658 | 54.29 | 12692.9 | EXC ESCALONADO | 4.016 | 91.81 | 21659.6 |
| | TERRAPLEN | 4.016 | 91.81 | 21660.1 | | | | |
| 6300.000 | SANE0 | 2.595 | 65.27 | 11783.9 | D TIERRA | 4.200 | 79.70 | 45560.6 |
| | ADECUADO COR | 16.241 | 334.55 | 84611.5 | SUELO EST 3 | 9.553 | 196.90 | 49250.5 |
| | VEGETAL | 5.170 | 101.17 | 20292.4 | TERRAPLEN | 107.385 | 2239.83 | 305067.8 |
| | REV EXT TERR | 2.562 | 52.05 | 12745.0 | EXC ESCALONADO | 4.764 | 84.99 | 21744.6 |
| | TERRAPLEN | 4.764 | 84.99 | 21745.1 | | | | |
| 6320.000 | SANE0 | 4.013 | 61.50 | 11845.4 | D TIERRA | 8.298 | 150.42 | 45711.0 |
| | ADECUADO COR | 20.942 | 412.52 | 85024.0 | SUELO EST 3 | 12.176 | 240.29 | 49490.7 |
| | VEGETAL | 5.729 | 115.81 | 20408.2 | TERRAPLEN | 111.480 | 2314.34 | 307382.1 |
| | REV EXT TERR | 4.151 | 81.52 | 12826.5 | EXC ESCALONADO | 7.151 | 144.54 | 21889.1 |
| | TERRAPLEN | 7.151 | 144.55 | 21889.6 | | | | |
| 6340.000 | SANE0 | 17.625 | 174.93 | 12020.3 | D TIERRA | 8.958 | 176.73 | 45887.7 |
| | ADECUADO COR | 20.190 | 411.13 | 85435.1 | SUELO EST 3 | 11.725 | 238.89 | 49729.6 |
| | VEGETAL | 2.255 | 92.74 | 20500.9 | TERRAPLEN | 134.385 | 2372.12 | 309754.2 |
| | REV EXT TERR | 4.147 | 82.97 | 12909.5 | EXC ESCALONADO | 14.209 | 191.20 | 22080.3 |
| | TERRAPLEN | 14.209 | 191.20 | 22080.8 | | | | |
| 6360.000 | SANE0 | 6.384 | 286.57 | 12306.9 | D TIERRA | 8.046 | 164.86 | 46052.6 |
| | ADECUADO COR | 19.580 | 397.44 | 85832.6 | SUELO EST 3 | 11.359 | 230.68 | 49960.3 |
| | VEGETAL | 4.818 | 56.76 | 20557.7 | TERRAPLEN | 112.004 | 2494.77 | 312249.0 |
| | REV EXT TERR | 4.130 | 84.44 | 12993.9 | EXC ESCALONADO | 7.177 | 192.40 | 22272.7 |
| | TERRAPLEN | 7.177 | 192.40 | 22273.2 | | | | |
| 6380.000 | SANE0 | 0.000 | 27.61 | 12334.5 | D TIERRA | 7.909 | 160.62 | 46213.2 |
| | ADECUADO COR | 19.134 | 386.88 | 86219.5 | SUELO EST 3 | 11.091 | 224.34 | 50184.7 |
| | VEGETAL | 4.692 | 106.90 | 20664.6 | TERRAPLEN | 103.006 | 2117.31 | 314366.3 |
| | REV EXT TERR | 4.110 | 82.48 | 13076.4 | EXC ESCALONADO | 5.886 | 122.10 | 22394.8 |
| | TERRAPLEN | 5.886 | 122.10 | 22395.3 | | | | |
| 6400.000 | D TIERRA | 8.074 | 159.72 | 46372.9 | ADECUADO COR | 18.830 | 379.42 | 86598.9 |
| | SUELO EST 3 | 10.909 | 219.86 | 50404.5 | VEGETAL | 4.169 | 85.01 | 20749.6 |
| | TERRAPLEN | 104.286 | 2060.18 | 316426.5 | REV EXT TERR | 4.056 | 81.46 | 13157.8 |
| | EXC ESCALONADO | 6.016 | 116.65 | 22511.5 | TERRAPLEN | 6.016 | 116.65 | 22512.0 |
| 6420.000 | D TIERRA | 8.585 | 169.65 | 46542.6 | ADECUADO COR | 19.641 | 382.03 | 86980.9 |
| | SUELO EST 3 | 11.396 | 221.43 | 50626.0 | VEGETAL | 4.921 | 84.81 | 20834.4 |
| | TERRAPLEN | 113.020 | 2151.66 | 318578.2 | REV EXT TERR | 4.024 | 80.86 | 13238.7 |
| | EXC ESCALONADO | 5.772 | 117.44 | 22628.9 | TERRAPLEN | 5.772 | 117.44 | 22629.4 |
| 6440.000 | D TIERRA | 8.694 | 169.86 | 46712.4 | ADECUADO COR | 18.556 | 379.31 | 87360.2 |
| | SUELO EST 3 | 10.745 | 219.80 | 50845.8 | VEGETAL | 4.370 | 104.17 | 20938.6 |
| | TERRAPLEN | 103.429 | 2151.71 | 320729.9 | REV EXT TERR | 4.048 | 80.70 | 13319.4 |
| | EXC ESCALONADO | 5.960 | 116.75 | 22745.7 | TERRAPLEN | 5.960 | 116.75 | 22746.1 |
| 6460.000 | D TIERRA | 11.214 | 193.54 | 46906.0 | ADECUADO COR | 18.540 | 370.89 | 87731.1 |
| | SUELO EST 3 | 10.735 | 214.75 | 51060.5 | VEGETAL | 4.114 | 83.53 | 21022.1 |
| | TERRAPLEN | 97.923 | 2007.87 | 322737.7 | REV EXT TERR | 4.063 | 81.14 | 13400.5 |
| | EXC ESCALONADO | 7.133 | 125.10 | 22870.8 | TERRAPLEN | 7.133 | 125.10 | 22871.2 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 6480.000 | D TIERRA | 10.059 | 206.09 | 47112.1 | ADECUADO COR | 18.539 | 370.79 | 88101.9 |
| | SUELO EST 3 | 10.734 | 214.69 | 51275.2 | VEGETAL | 5.735 | 90.58 | 21112.7 |
| | TERRAPLEN | 108.167 | 2084.89 | 324822.6 | REV EXT TERR | 4.132 | 82.24 | 13482.8 |
| | EXC ESCALONADO | 5.794 | 135.05 | 23005.8 | TERRAPLEN | 5.794 | 135.05 | 23006.3 |
| 6500.000 | D TIERRA | 10.667 | 205.98 | 47318.0 | ADECUADO COR | 19.039 | 374.54 | 88476.4 |
| | SUELO EST 3 | 11.034 | 216.94 | 51492.1 | VEGETAL | 5.532 | 111.02 | 21223.7 |
| | TERRAPLEN | 115.886 | 2224.61 | 327047.2 | REV EXT TERR | 4.288 | 84.34 | 13567.1 |
| | EXC ESCALONADO | 6.167 | 128.14 | 23134.0 | TERRAPLEN | 6.167 | 128.14 | 23134.4 |
| 6520.000 | D TIERRA | 11.101 | 218.69 | 47536.7 | ADECUADO COR | 18.540 | 374.55 | 88851.0 |
| | SUELO EST 3 | 10.735 | 216.94 | 51709.1 | VEGETAL | 5.671 | 110.64 | 21334.3 |
| | TERRAPLEN | 109.598 | 2232.27 | 329279.5 | REV EXT TERR | 4.295 | 84.81 | 13651.9 |
| | EXC ESCALONADO | 6.143 | 121.01 | 23255.0 | TERRAPLEN | 6.143 | 121.01 | 23255.4 |
| 6540.000 | D TIERRA | 11.218 | 222.47 | 47759.2 | ADECUADO COR | 18.539 | 370.79 | 89221.8 |
| | SUELO EST 3 | 10.734 | 214.69 | 51923.8 | VEGETAL | 5.748 | 110.90 | 21445.2 |
| | TERRAPLEN | 112.077 | 2208.32 | 331487.8 | REV EXT TERR | 4.499 | 88.31 | 13740.2 |
| | EXC ESCALONADO | 6.470 | 128.24 | 23383.2 | TERRAPLEN | 6.470 | 128.24 | 23383.7 |
| 6560.000 | D TIERRA | 11.064 | 224.59 | 47983.8 | ADECUADO COR | 18.540 | 370.80 | 89592.6 |
| | SUELO EST 3 | 10.735 | 214.70 | 52138.5 | VEGETAL | 5.413 | 111.71 | 21556.9 |
| | TERRAPLEN | 115.670 | 2281.68 | 333769.5 | REV EXT TERR | 4.615 | 91.10 | 13831.3 |
| | EXC ESCALONADO | 6.824 | 131.29 | 23514.5 | TERRAPLEN | 6.824 | 131.29 | 23515.0 |
| 6580.000 | D TIERRA | 11.069 | 220.51 | 48204.3 | ADECUADO COR | 18.539 | 370.79 | 89963.4 |
| | SUELO EST 3 | 10.734 | 214.69 | 52353.1 | VEGETAL | 5.576 | 113.71 | 21670.6 |
| | TERRAPLEN | 120.980 | 2372.17 | 336141.7 | REV EXT TERR | 4.699 | 93.33 | 13924.7 |
| | EXC ESCALONADO | 7.142 | 137.51 | 23652.0 | TERRAPLEN | 7.142 | 137.51 | 23652.5 |
| 6600.000 | D TIERRA | 10.602 | 218.06 | 48422.4 | ADECUADO COR | 18.539 | 370.79 | 90334.2 |
| | SUELO EST 3 | 10.734 | 214.68 | 52567.8 | VEGETAL | 5.859 | 115.25 | 21785.9 |
| | TERRAPLEN | 128.131 | 2483.97 | 338625.6 | REV EXT TERR | 4.763 | 94.05 | 14018.7 |
| | EXC ESCALONADO | 7.185 | 138.21 | 23790.2 | TERRAPLEN | 7.185 | 138.21 | 23790.7 |
| 6620.000 | D TIERRA | 10.559 | 211.52 | 48633.9 | ADECUADO COR | 18.539 | 370.79 | 90704.9 |
| | SUELO EST 3 | 10.734 | 214.68 | 52782.5 | VEGETAL | 5.857 | 116.45 | 21902.3 |
| | TERRAPLEN | 133.999 | 2623.63 | 341249.3 | REV EXT TERR | 4.977 | 97.34 | 14116.1 |
| | EXC ESCALONADO | 7.443 | 147.08 | 23937.3 | TERRAPLEN | 7.443 | 147.08 | 23937.8 |
| 6640.000 | D TIERRA | 9.267 | 143.20 | 48777.1 | ADECUADO COR | 16.302 | 245.84 | 90950.8 |
| | SUELO EST 3 | 9.781 | 147.27 | 52929.8 | VEGETAL | 1.936 | 23.99 | 21926.3 |
| | MUROS | 0.229 | 3.21 | 123.5 | TERRAPLEN | 67.918 | 1056.66 | 342305.9 |
| | REV EXT TERR | 1.605 | 25.61 | 14141.7 | EXC ESCALONADO | 6.142 | 84.63 | 24021.9 |
| | TERRAPLEN | 6.142 | 84.63 | 24022.4 | | | | |
| 6660.000 | D TIERRA | 9.862 | 195.24 | 48972.3 | ADECUADO COR | 18.540 | 352.71 | 91303.5 |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
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Istram 22.08.08.03 03/11/22 12:21:59 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 6840.000 | D TIERRA | 7.887 | 170.23 | 50726.4 | ADECUADO COR | 18.539 | 370.80 | 94640.7 |
| | SUELO EST 3 | 10.734 | 214.70 | 55069.1 | VEGETAL | 9.369 | 182.40 | 23553.3 |
| | TERRAPLEN | 232.469 | 4545.68 | 379494.3 | REV EXT TERR | 7.441 | 148.87 | 15430.5 |
| | EXC ESCALONADO | 13.337 | 250.63 | 26286.9 | TERR ESCALONADO | 13.337 | 250.63 | 26287.4 |
| 6860.000 | D TIERRA | 6.764 | 148.76 | 50875.2 | ADECUADO COR | 18.540 | 370.80 | 95011.5 |
| | SUELO EST 3 | 10.735 | 214.70 | 55283.8 | VEGETAL | 9.339 | 184.35 | 23737.6 |
| | TERRAPLEN | 241.151 | 4725.66 | 384220.0 | REV EXT TERR | 7.755 | 151.16 | 15581.7 |
| | EXC ESCALONADO | 12.659 | 254.10 | 26541.0 | TERR ESCALONADO | 12.659 | 254.10 | 26541.5 |
| 6880.000 | D TIERRA | 6.296 | 131.59 | 51006.8 | ADECUADO COR | 18.539 | 370.80 | 95382.3 |
| | SUELO EST 3 | 10.734 | 214.70 | 55498.5 | VEGETAL | 8.653 | 182.81 | 23920.4 |
| | TERRAPLEN | 242.536 | 4840.02 | 389060.0 | REV EXT TERR | 7.817 | 156.22 | 15737.9 |
| | EXC ESCALONADO | 12.805 | 256.04 | 26797.1 | TERR ESCALONADO | 12.805 | 256.04 | 26797.5 |
| 6900.000 | D TIERRA | 5.718 | 124.27 | 51131.1 | ADECUADO COR | 19.040 | 374.54 | 95756.8 |
| | SUELO EST 3 | 11.034 | 216.93 | 55715.4 | VEGETAL | 8.819 | 162.43 | 24082.9 |
| | TERRAPLEN | 251.075 | 4903.51 | 393963.5 | REV EXT TERR | 7.963 | 157.36 | 15895.3 |
| | EXC ESCALONADO | 13.483 | 259.48 | 27056.5 | TERR ESCALONADO | 13.483 | 259.48 | 27057.0 |
| 6920.000 | D TIERRA | 4.427 | 104.65 | 51235.7 | ADECUADO COR | 11.805 | 338.32 | 96095.2 |
| | SUELO EST 3 | 7.083 | 200.24 | 55915.6 | VEGETAL | 0.118 | 55.79 | 24138.7 |
| | MUROS | 0.154 | 4.13 | 129.5 | TERRAPLEN | 63.589 | 2821.37 | 396784.9 |
| | REV EXT TERR | 0.000 | 86.26 | 15981.5 | EXC ESCALONADO | 1.940 | 181.18 | 27237.7 |
| | TERR ESCALONADO | 1.940 | 181.18 | 27238.2 | | | | |
| 6940.000 | D TIERRA | 0.170 | 26.99 | 51262.7 | ADECUADO COR | 7.607 | 70.70 | 96165.8 |
| | SUELO EST 3 | 4.564 | 42.41 | 55958.1 | VEGETAL | 1.158 | 3.84 | 24142.5 |
| | MUROS | 0.216 | 2.72 | 132.2 | TERRAPLEN | 104.152 | 493.93 | 397278.8 |
| | REV EXT TERR | 2.161 | 12.40 | 15993.9 | EXC ESCALONADO | 5.983 | 14.49 | 27252.2 |
| | TERR ESCALONADO | 5.983 | 14.49 | 27252.7 | | | | |
| 6960.000 | D TIERRA | 5.633 | 83.69 | 51346.4 | ADECUADO COR | 17.422 | 311.58 | 96477.4 |
| | SUELO EST 3 | 10.260 | 184.61 | 56142.7 | VEGETAL | 1.984 | 40.57 | 24183.1 |
| | MUROS | 0.025 | 2.85 | 135.0 | TERRAPLEN | 29.010 | 1677.48 | 398956.3 |
| | REV EXT TERR | 2.918 | 62.45 | 16056.4 | EXC ESCALONADO | 4.801 | 240.61 | 27492.8 |
| | TERR ESCALONADO | 4.801 | 240.61 | 27493.3 | | | | |
| 6980.000 | D TIERRA | 7.099 | 123.63 | 51470.0 | ADECUADO COR | 17.941 | 364.15 | 96841.6 |
| | SUELO EST 3 | 10.573 | 213.20 | 56355.9 | VEGETAL | 2.573 | 43.07 | 24226.1 |
| | MUROS | 0.000 | 0.03 | 135.1 | TERRAPLEN | 86.514 | 740.75 | 399697.1 |
| | REV EXT TERR | 1.441 | 53.61 | 16110.0 | EXC ESCALONADO | 4.465 | 84.07 | 27576.9 |
| | TERR ESCALONADO | 4.465 | 84.07 | 27577.3 | | | | |
| 7000.000 | SANEADO | 27.668 | 215.99 | 12550.5 | D TIERRA | 8.722 | 153.79 | 51623.8 |
| | ADECUADO COR | 18.946 | 366.30 | 97207.9 | SUELO EST 3 | 11.176 | 215.95 | 56571.8 |
| | VEGETAL | 4.035 | 67.95 | 24294.1 | TERRAPLEN | 255.643 | 3576.98 | 403274.1 |
| | REV EXT TERR | 3.990 | 60.75 | 16170.8 | EXC ESCALONADO | 9.197 | 120.47 | 27697.3 |
| | TERR ESCALONADO | 9.197 | 120.47 | 27697.8 | | | | |
| 7020.000 | SANEADO | 7.282 | 372.43 | 12922.9 | D TIERRA | 9.389 | 178.89 | 51802.7 |
| | ADECUADO COR | 17.059 | 360.07 | 97568.0 | SUELO EST 3 | 10.236 | 213.81 | 56785.6 |
| | VEGETAL | 2.081 | 63.52 | 24357.6 | MUROS | 0.219 | 1.83 | 136.9 |
| | TERRAPLEN | 138.888 | 4079.17 | 407353.2 | REV EXT TERR | 2.207 | 64.44 | 16235.2 |
| | EXC ESCALONADO | 7.265 | 154.88 | 27852.2 | TERR ESCALONADO | 7.265 | 154.88 | 27852.7 |
| 7040.000 | SANEADO | 2.918 | 56.61 | 12979.6 | D TIERRA | 0.000 | 157.71 | 51960.4 |
| | ADECUADO COR | 2.346 | 199.97 | 97767.9 | SUELO EST 3 | 1.407 | 119.58 | 56905.2 |
| | VEGETAL | 0.304 | 15.96 | 24373.6 | MUROS | 0.200 | 1.00 | 137.9 |
| | TERRAPLEN | 43.661 | 1440.16 | 408793.4 | REV EXT TERR | 2.010 | 14.42 | 16249.6 |
| | EXC ESCALONADO | 0.770 | 42.53 | 27894.8 | TERR ESCALONADO | 0.770 | 42.53 | 27895.2 |
| 7060.000 | SANEADO | 29.903 | 514.74 | 13494.3 | D TIERRA | 13.769 | 112.03 | 52072.4 |
| | ADECUADO COR | 19.664 | 263.31 | 98031.2 | SUELO EST 3 | 11.525 | 155.30 | 57060.5 |
| | VEGETAL | 3.554 | 50.04 | 24423.6 | MUROS | 0.000 | 1.74 | 139.6 |
| | TERRAPLEN | 256.411 | 4388.22 | 413181.6 | REV EXT TERR | 3.082 | 56.16 | 16305.8 |
| | EXC ESCALONADO | 15.264 | 63.20 | 27958.0 | TERR ESCALONADO | 15.264 | 63.20 | 27958.4 |
| 7080.000 | SANEADO | 0.000 | 303.25 | 13797.5 | D TIERRA | 14.454 | 279.46 | 52351.9 |
| | ADECUADO COR | 20.500 | 400.22 | 98431.5 | SUELO EST 3 | 12.022 | 234.64 | 57295.2 |
| | VEGETAL | 2.697 | 63.04 | 24486.6 | TERRAPLEN | 113.184 | 3757.89 | 416939.5 |
| | REV EXT TERR | 1.306 | 42.91 | 16348.7 | EXC ESCALONADO | 6.788 | 273.90 | 28231.9 |
| | TERR ESCALONADO | 6.788 | 273.90 | 28232.3 | | | | |
| 7100.000 | D TIERRA | 14.070 | 287.88 | 52639.8 | ADECUADO COR | 15.552 | 383.66 | 98815.1 |
| | SUELO EST 3 | 9.242 | 226.16 | 57521.3 | VEGETAL | 1.466 | 40.92 | 24527.6 |
| | TERRAPLEN | 19.229 | 1262.15 | 418201.7 | REV EXT TERR | 0.000 | 15.08 | 16363.8 |
| | EXC ESCALONADO | 2.815 | 87.39 | 28319.2 | TERR ESCALONADO | 2.815 | 87.39 | 28319.7 |
| 7120.000 | D TIERRA | 12.542 | 213.38 | 52853.1 | ADECUADO COR | 16.194 | 311.08 | 99126.2 |
| | SUELO EST 3 | 9.525 | 184.48 | 57705.8 | VEGETAL | 1.196 | 22.09 | 24549.7 |
| | TERRAPLEN | 9.212 | 200.18 | 418401.8 | REV EXT TERR | 1.022 | 6.81 | 16370.6 |
| | EXC ESCALONADO | 4.973 | 53.59 | 28372.8 | TERR ESCALONADO | 4.973 | 53.59 | 28373.3 |
| 7140.000 | D TIERRA | 18.283 | 306.79 | 53159.9 | ADECUADO COR | 17.214 | 332.02 | 99458.2 |
| | SUELO EST 3 | 10.137 | 195.38 | 57901.2 | VEGETAL | 2.526 | 33.39 | 24583.1 |
| | TERRAPLEN | 59.210 | 650.30 | 419052.1 | REV EXT TERR | 3.200 | 40.83 | 16411.4 |
| | EXC ESCALONADO | 5.810 | 99.98 | 28472.8 | TERR ESCALONADO | 5.810 | 99.98 | 28473.3 |

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 7160.000 | D TIERRA | 9.800 | 350.18 | 53510.1 | ADECUADO COR | 14.001 | 355.45 | 99813.7 |
| | SUELO EST 3 | 8.210 | 209.19 | 58110.4 | VEGETAL | 3.385 | 63.67 | 24646.7 |
| | TERRAPLEN | 75.774 | 1385.75 | 420437.9 | REV EXT TERR | 3.262 | 68.97 | 16480.4 |
| | EXC ESCALONADO | 5.224 | 112.35 | 28585.2 | TERR ESCALONADO | 5.224 | 112.35 | 28585.6 |
| 7180.000 | D TIERRA | 9.892 | 196.39 | 53706.5 | ADECUADO COR | 14.612 | 288.84 | 100102.5 |
| | SUELO EST 3 | 8.574 | 169.47 | 58279.8 | VEGETAL | 3.526 | 65.52 | 24712.2 |
| | TERRAPLEN | 78.960 | 1536.63 | 421974.5 | REV EXT TERR | 3.330 | 66.19 | 16546.6 |
| | EXC ESCALONADO | 4.956 | 102.60 | 28687.8 | TERR ESCALONADO | 4.956 | 102.60 | 28688.2 |
| 7200.000 | D TIERRA | 10.014 | 201.85 | 53908.3 | ADECUADO COR | 14.660 | 293.12 | 100395.6 |
| | SUELO EST 3 | 8.596 | 171.86 | 58451.7 | VEGETAL | 3.256 | 71.57 | 24783.8 |
| | TERRAPLEN | 78.528 | 1590.09 | 423564.6 | REV EXT TERR | 2.664 | 63.24 | 16609.8 |
| | EXC ESCALONADO | 4.786 | 97.73 | 28785.5 | TERR ESCALONADO | 4.786 | 97.73 | 28786.0 |
| 7220.000 | D TIERRA | 10.157 | 199.69 | 54108.0 | ADECUADO COR | 14.600 | 292.40 | 100688.0 |
| | SUELO EST 3 | 8.568 | 171.55 | 58623.3 | VEGETAL | 1.948 | 50.08 | 24833.9 |
| | TERRAPLEN | 59.114 | 1404.16 | 424968.8 | REV EXT TERR | 1.247 | 38.35 | 16648.2 |
| | EXC ESCALONADO | 4.605 | 94.79 | 28880.3 | TERR ESCALONADO | 4.605 | 94.79 | 28880.8 |
| 7240.000 | D TIERRA | 9.355 | 195.75 | 54303.8 | ADECUADO COR | 13.997 | 289.68 | 100977.7 |
| | SUELO EST 3 | 8.398 | 170.73 | 58794.0 | VEGETAL | 1.300 | 31.20 | 24865.1 |
| | TERRAPLEN | 37.970 | 946.53 | 425915.3 | REV EXT TERR | 0.190 | 13.85 | 16662.0 |
| | EXC ESCALONADO | 4.221 | 87.91 | 28968.2 | TERR ESCALONADO | 4.221 | 87.91 | 28968.7 |
| 7260.000 | D TIERRA | 8.589 | 186.75 | 54490.5 | ADECUADO COR | 17.645 | 311.89 | 101289.6 |
| | SUELO EST 3 | 10.395 | 185.83 | 58979.8 | VEGETAL | 0.804 | 34.32 | 24899.4 |
| | TERRAPLEN | 140.271 | 1485.63 | 427400.9 | REV EXT TERR | 2.804 | 17.28 | 16679.3 |
| | EXC ESCALONADO | 6.769 | 92.12 | 29060.3 | TERR ESCALONADO | 6.769 | 92.12 | 29060.8 |
| 7280.000 | D TIERRA | 13.322 | 273.70 | 54764.2 | ADECUADO COR | 19.693 | 408.10 | 101697.7 |
| | SUELO EST 3 | 11.433 | 238.27 | 59218.1 | VEGETAL | 5.981 | 58.94 | 24958.3 |
| | TERRAPLEN | 106.369 | 2491.57 | 429892.5 | REV EXT TERR | 10.906 | 88.78 | 16768.1 |
| | EXC ESCALONADO | 6.140 | 248.59 | 29308.9 | TERR ESCALONADO | 6.140 | 248.59 | 29309.4 |
| 7300.000 | D TIERRA | 11.689 | 247.25 | 55011.5 | ADECUADO COR | 18.579 | 379.35 | 102077.0 |
| | SUELO EST 3 | 10.764 | 219.96 | 59438.0 | VEGETAL | 5.974 | 115.68 | 25074.0 |
| | TERRAPLEN | 110.869 | 2148.98 | 432041.5 | REV EXT TERR | 3.827 | 209.51 | 16977.6 |
| | EXC ESCALONADO | 5.893 | 112.50 | 29421.4 | TERR ESCALONADO | 5.893 | 112.50 | 29421.9 |
| 7320.000 | D TIERRA | 14.672 | 321.82 | 55333.3 | ADECUADO COR | 18.516 | 370.53 | 102447.6 |
| | SUELO EST 3 | 10.727 | 214.66 | 59562.7 | VEGETAL | 7.521 | 147.61 | 25221.6 |
| | TERRAPLEN | 110.858 | 2226.41 | 434267.9 | REV EXT TERR | 3.876 | 76.98 | 17054.6 |
| | EXC ESCALONADO | 5.996 | 116.73 | 29538.1 | TERR ESCALONADO | 5.996 | 116.73 | 29538.6 |
| 7340.000 | D TIERRA | 13.467 | 281.78 | 55615.1 | ADECUADO COR | 18.516 | 370.32 | 102817.9 |
| </ | | | | | | | | |

Istram 22.08.08.03 03/11/22 12:21:59 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.08.08.03 03/11/22 12:21:59 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 7520.000 | D TIERRA | 8.526 | 171.02 | 57556.3 | ADECUADO COR | 15.775 | 336.10 | 105831.6 |
| | SUELO EST 3 | 9.082 | 194.00 | 61617.5 | VEGETAL | 5.006 | 102.49 | 26369.9 |
| | TERRAPLEN | 71.417 | 1580.04 | 451715.2 | REV EXT TERR | 3.667 | 73.63 | 17700.2 |
| | EXC ESCALONADO | 5.783 | 112.38 | 30622.7 | TERR ESCALONADO | 5.783 | 112.38 | 30623.1 |
| 7540.000 | D TIERRA | 8.834 | 173.77 | 57730.1 | ADECUADO COR | 15.406 | 311.20 | 106142.8 |
| | SUELO EST 3 | 8.860 | 179.06 | 61796.6 | VEGETAL | 4.855 | 96.48 | 26466.4 |
| | TERRAPLEN | 68.419 | 1388.77 | 453104.0 | REV EXT TERR | 3.664 | 73.28 | 17773.4 |
| | EXC ESCALONADO | 5.925 | 117.62 | 30740.3 | TERR ESCALONADO | 5.925 | 117.62 | 30740.8 |
| 7560.000 | D TIERRA | 8.930 | 178.34 | 57908.4 | ADECUADO COR | 15.126 | 305.31 | 106448.2 |
| | SUELO EST 3 | 8.692 | 175.53 | 61972.1 | VEGETAL | 4.757 | 96.27 | 26562.7 |
| | TERRAPLEN | 64.321 | 1327.90 | 454431.9 | REV EXT TERR | 3.583 | 72.56 | 17846.0 |
| | EXC ESCALONADO | 5.195 | 110.33 | 30850.6 | TERR ESCALONADO | 5.195 | 110.33 | 30851.1 |
| 7580.000 | D TIERRA | 9.011 | 178.84 | 58087.2 | ADECUADO COR | 15.016 | 300.75 | 106748.9 |
| | SUELO EST 3 | 8.627 | 172.79 | 62144.9 | VEGETAL | 4.714 | 94.60 | 26657.3 |
| | TERRAPLEN | 63.961 | 1276.66 | 455708.5 | REV EXT TERR | 3.588 | 71.86 | 17917.9 |
| | EXC ESCALONADO | 5.456 | 105.93 | 30956.5 | TERR ESCALONADO | 5.456 | 105.93 | 30957.0 |
| 7600.000 | D TIERRA | 8.686 | 178.43 | 58265.7 | ADECUADO COR | 15.016 | 300.32 | 107049.2 |
| | SUELO EST 3 | 8.627 | 172.53 | 62317.4 | VEGETAL | 4.405 | 92.61 | 26749.9 |
| | TERRAPLEN | 65.271 | 1290.09 | 456998.6 | REV EXT TERR | 3.589 | 71.53 | 17989.4 |
| | EXC ESCALONADO | 5.344 | 108.95 | 31065.5 | TERR ESCALONADO | 5.344 | 108.95 | 31066.0 |
| 7620.000 | D TIERRA | 8.861 | 175.48 | 58441.1 | ADECUADO COR | 15.016 | 300.32 | 107349.5 |
| | SUELO EST 3 | 8.626 | 172.53 | 62489.9 | VEGETAL | 4.210 | 90.73 | 26840.6 |
| | TERRAPLEN | 65.579 | 1315.72 | 458314.3 | REV EXT TERR | 3.622 | 72.19 | 18061.6 |
| | EXC ESCALONADO | 5.449 | 110.15 | 31175.6 | TERR ESCALONADO | 5.449 | 110.15 | 31176.1 |
| 7640.000 | D TIERRA | 9.479 | 184.75 | 58625.9 | ADECUADO COR | 15.016 | 300.32 | 107649.9 |
| | SUELO EST 3 | 8.626 | 172.53 | 62662.5 | VEGETAL | 4.124 | 79.86 | 26920.5 |
| | TERRAPLEN | 63.070 | 1287.72 | 459602.1 | REV EXT TERR | 3.483 | 71.35 | 18132.9 |
| | EXC ESCALONADO | 5.189 | 106.96 | 31282.6 | TERR ESCALONADO | 5.189 | 106.96 | 31283.1 |
| 7660.000 | D TIERRA | 9.421 | 189.17 | 58815.1 | ADECUADO COR | 14.869 | 297.80 | 107947.7 |
| | SUELO EST 3 | 8.626 | 172.53 | 62835.0 | VEGETAL | 3.995 | 67.23 | 26987.7 |
| | TERRAPLEN | 60.709 | 1219.42 | 460821.5 | REV EXT TERR | 2.605 | 63.52 | 18196.4 |
| | EXC ESCALONADO | 3.000 | 69.11 | 31351.7 | TERR ESCALONADO | 3.000 | 69.11 | 31352.2 |
| 7680.000 | D TIERRA | 8.077 | 184.56 | 58999.6 | ADECUADO COR | 12.814 | 291.03 | 108238.7 |
| | SUELO EST 3 | 7.688 | 169.88 | 63004.9 | VEGETAL | 0.728 | 59.48 | 27047.2 |
| | MUROS | 0.105 | 0.49 | 143.5 | TERRAPLEN | 39.963 | 1093.97 | 461915.5 |
| | REV EXT TERR | 0.000 | 33.64 | 18230.1 | EXC ESCALONADO | 2.510 | 58.13 | 31409.8 |
| | TERR ESCALONADO | 2.510 | 58.13 | 31410.3 | | | | |
| 7700.000 | D TIERRA | 7.914 | 118.29 | 59117.9 | ADECUADO COR | 12.814 | 192.20 | 108430.9 |
| | SUELO EST 3 | 7.688 | 115.32 | 63120.2 | VEGETAL | 0.577 | 7.34 | 27054.5 |
| | MUROS | 0.106 | 1.58 | 145.1 | TERRAPLEN | 38.910 | 679.31 | 462594.8 |
| | EXC ESCALONADO | 2.589 | 23.66 | 31433.5 | TERR ESCALONADO | 2.589 | 23.66 | 31434.0 |
| 7720.000 | D TIERRA | 8.981 | 176.35 | 59294.3 | ADECUADO COR | 15.016 | 292.96 | 108723.9 |
| | SUELO EST 3 | 8.626 | 169.41 | 63289.6 | VEGETAL | 3.012 | 50.48 | 27105.0 |
| | MUROS | 0.000 | 0.54 | 145.6 | TERRAPLEN | 63.507 | 1120.82 | 463715.6 |
| | REV EXT TERR | 2.428 | 37.96 | 18268.0 | EXC ESCALONADO | 3.108 | 58.61 | 31492.1 |
| | TERR ESCALONADO | 3.108 | 58.61 | 31492.6 | | | | |
| 7740.000 | D TIERRA | 9.479 | 185.10 | 59479.4 | ADECUADO COR | 15.016 | 300.32 | 109024.2 |
| | SUELO EST 3 | 8.626 | 172.53 | 63462.1 | VEGETAL | 2.808 | 58.56 | 27163.6 |
| | TERRAPLEN | 64.717 | 1288.12 | 465003.7 | REV EXT TERR | 2.438 | 48.79 | 18316.8 |
| | EXC ESCALONADO | 3.130 | 63.45 | 31555.6 | TERR ESCALONADO | 3.130 | 63.45 | 31556.0 |
| 7760.000 | D TIERRA | 9.110 | 186.24 | 59665.6 | ADECUADO COR | 14.834 | 299.12 | 109323.3 |
| | SUELO EST 3 | 8.626 | 172.53 | 63634.7 | VEGETAL | 2.674 | 58.94 | 27222.5 |
| | TERRAPLEN | 64.208 | 1293.14 | 466296.9 | REV EXT TERR | 2.310 | 47.77 | 18364.6 |
| | EXC ESCALONADO | 2.852 | 58.97 | 31614.5 | TERR ESCALONADO | 2.852 | 58.97 | 31615.0 |
| 7780.000 | D TIERRA | 9.028 | 181.10 | 59846.7 | ADECUADO COR | 14.789 | 295.99 | 109619.3 |
| | SUELO EST 3 | 8.626 | 172.52 | 63807.2 | VEGETAL | 2.266 | 53.49 | 27276.0 |
| | TERRAPLEN | 59.122 | 1254.38 | 467551.2 | REV EXT TERR | 2.114 | 44.26 | 18408.9 |
| | EXC ESCALONADO | 3.464 | 61.47 | 31676.0 | TERR ESCALONADO | 3.464 | 61.47 | 31676.5 |
| 7800.000 | D TIERRA | 9.189 | 182.36 | 60029.0 | ADECUADO COR | 14.815 | 295.94 | 109915.2 |
| | SUELO EST 3 | 8.626 | 172.52 | 63979.7 | VEGETAL | 0.710 | 33.55 | 27309.6 |
| | TERRAPLEN | 53.281 | 1120.95 | 468672.2 | REV EXT TERR | 2.209 | 42.84 | 18451.7 |
| | EXC ESCALONADO | 2.864 | 65.15 | 31741.2 | TERR ESCALONADO | 2.864 | 65.15 | 31741.6 |
| 7820.000 | D TIERRA | 9.159 | 182.37 | 60211.4 | ADECUADO COR | 14.558 | 295.53 | 110210.8 |
| | SUELO EST 3 | 8.543 | 172.11 | 64151.8 | VEGETAL | 2.856 | 42.84 | 27352.4 |
| | TERRAPLEN | 60.300 | 1153.26 | 469825.5 | REV EXT TERR | 1.975 | 41.69 | 18493.4 |
| | EXC ESCALONADO | 3.113 | 58.91 | 31800.1 | TERR ESCALONADO | 3.113 | 58.91 | 31800.5 |
| 7840.000 | D TIERRA | 8.904 | 179.57 | 60391.0 | ADECUADO COR | 14.669 | 291.87 | 110502.6 |
| | SUELO EST 3 | 8.599 | 171.25 | 64323.1 | VEGETAL | 4.151 | 71.11 | 27423.5 |
| | TERRAPLEN | 62.568 | 1228.94 | 471054.4 | REV EXT TERR | 2.048 | 40.04 | 18533.4 |
| | EXC ESCALONADO | 3.160 | 59.00 | 31859.1 | TERR ESCALONADO | 3.160 | 59.00 | 31859.5 |
| 7860.000 | D TIERRA | 8.481 | 173.94 | 60564.9 | ADECUADO COR | 14.769 | 294.53 | 110797.2 |
| | SUELO EST 3 | 8.624 | 172.29 | 64495.4 | VEGETAL | 4.037 | 72.79 | 27496.3 |
| | TERRAPLEN | 65.766 | 1281.99 | 472336.4 | REV EXT TERR | 2.149 | 42.13 | 18575.6 |
| | EXC ESCALONADO | 2.873 | 58.26 | 31917.3 | TERR ESCALONADO | 2.873 | 58.26 | 31917.8 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 7880.000 | D TIERRA | 8.136 | 166.56 | 60731.5 | ADECUADO COR | 14.906 | 296.39 | 111093.5 |
| | SUELO EST 3 | 8.626 | 172.51 | 64667.9 | VEGETAL | 4.028 | 80.93 | 27577.2 |
| | TERRAPLEN | 65.728 | 1329.14 | 473665.5 | REV EXT TERR | 2.253 | 44.14 | 18619.7 |
| | EXC ESCALONADO | 3.006 | 58.63 | 31976.0 | TERR ESCALONADO | 3.006 | 58.63 | 31976.4 |
| 7900.000 | D TIERRA | 7.805 | 159.19 | 60890.7 | ADECUADO COR | 14.662 | 297.67 | 111391.2 |
| | SUELO EST 3 | 8.596 | 172.38 | 64840.2 | VEGETAL | 4.166 | 83.34 | 27660.6 |
| | TERRAPLEN | 68.022 | 1337.78 | 475003.3 | REV EXT TERR | 2.195 | 45.62 | 18665.3 |
| | EXC ESCALONADO | 2.918 | 58.63 | 32034.6 | TERR ESCALONADO | 2.918 | 58.63 | 32035.1 |
| 7920.000 | D TIERRA | 7.229 | 151.69 | 61042.4 | ADECUADO COR | 14.855 | 294.96 | 111686.2 |
| | SUELO EST 3 | 8.626 | 172.30 | 65012.5 | VEGETAL | 4.258 | 81.89 | 27742.5 |
| | TERRAPLEN | 69.177 | 1367.17 | 476370.5 | REV EXT TERR | 2.400 | 44.59 | 18709.9 |
| | EXC ESCALONADO | 3.384 | 68.07 | 32102.7 | TERR ESCALONADO | 3.384 | 68.07 | 32103.1 |
| 7940.000 | D TIERRA | 6.284 | 137.22 | 61179.6 | ADECUADO COR | 15.016 | 299.46 | 111985.6 |
| | SUELO EST 3 | 8.626 | 172.53 | 65185.1 | VEGETAL | 4.363 | 84.94 | 27827.4 |
| | TERRAPLEN | 71.179 | 1402.77 | 477773.2 | REV EXT TERR | 3.838 | 63.22 | 18773.1 |
| | EXC ESCALONADO | 3.881 | 70.95 | 32173.6 | TERR ESCALONADO | 3.881 | 70.95 | 32174.1 |
| 7960.000 | D TIERRA | 4.808 | 112.33 | 61291.9 | ADECUADO COR | 15.016 | 300.32 | 112286.0 |
| | SUELO EST 3 | 8.626 | 172.53 | 65357.6 | VEGETAL | 4.621 | 87.91 | 27915.3 |
| | TERRAPLEN | 75.397 | 1457.45 | 479230.7 | REV EXT TERR | 3.834 | 76.37 | 18849.5 |
| | EXC ESCALONADO | 4.484 | 87.90 | 32261.5 | TERR ESCALONADO | 4.484 | 87.90 | 32262.0 |
| 7980.000 | D TIERRA | 3.621 | 83.30 | 61375.2 | ADECUADO COR | 15.016 | 300.32 | 112586.3 |
| | SUELO EST 3 | 8.626 | 172.53 | 65530.1 | VEGETAL | 2.456 | 79.39 | 27994.7 |
| | TERRAPLEN | 77.861 | 1538.13 | 480768.8 | REV EXT TERR | 3.723 | 75.70 | 18925.2 |
| | EXC ESCALONADO | 4.802 | 94.02 | 32355.5 | TERR ESCALONADO | 4.802 | 94.02 | 32356.0 |
| 8000.000 | D TIERRA | 2.354 | 61.68 | 61436.9 | ADECUADO COR | 15.016 | 300.32 | 112886.6 |
| | SUELO EST 3 | 8.626 | 172.53 | 65702.7 | VEGETAL | 4.345 | 55.41 | 28050.1 |
| | TERRAPLEN | 84.383 | 1608.76 | 482377.6 | REV EXT TERR | 4.211 | 81.53 | 19006.7 |
| | EXC ESCALONADO | 6.818 | 121.09 | 32476.6 | TERR ESCALONADO | 6.818 | 121.09 | 32477.1 |
| 8020.000 | D TIERRA | 1.104 | 32.73 | 61469.6 | ADECUADO COR | 15.016 | 307.82 | 113194.4 |
| | SUELO EST 3 | 8.626 | 177.03 | 65879.7 | VEGETAL | 4.315 | 78.95 | 28129.1 |
| | TERRAPLEN | 89.628 | 1795.25 | 484172.8 | REV EXT TERR | 4.321 | 85.91 | 19092.6 |
| | EXC ESCALONADO | 7.046 | 140.67 | 32617.3 | TERR ESCALONADO | 7.046 | 140.67 | 32617.8 |
| 8040.000 | D TIERRA | 0.542 | 15.86 | 61485.5 | ADECUADO COR | 15.016 | 300.32 | 113494.7 |
| | SUELO EST 3 | 8.626 | 172.53 | 66052.2 | VEGETAL | 4.803 | 90.45 | 28219.5 |
| | TERRAPLEN | 93.018 | 1836.54 | 486009.4 | REV EXT TERR | 4.452 | 87.96 | 19180.6 |
| | EXC ESCALONADO | 7.110 | | | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.08.08.03 03/11/22 12:22:00 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 8240.000 | D TIERRA | 6.177 | 120.30 | 62009.2 | ADECUADO COR | 15.016 | 300.32 | 116240.0 |
| | SUELO EST 3 | 8.626 | 172.53 | 67636.3 | VEGETAL | 5.219 | 106.57 | 29127.7 |
| | TERRAPLEN | 66.553 | 1376.12 | 501240.4 | REV EXT TERR | 3.064 | 69.51 | 19865.1 |
| | EXC ESCALONADO | 4.071 | 83.18 | 34022.3 | TERR ESCALONADO | 4.071 | 83.18 | 34022.8 |
| 8260.000 | D TIERRA | 8.409 | 146.05 | 62155.2 | ADECUADO COR | 14.978 | 300.12 | 116540.1 |
| | SUELO EST 3 | 8.626 | 172.53 | 67808.9 | VEGETAL | 3.843 | 89.93 | 29217.7 |
| | TERRAPLEN | 58.376 | 1250.83 | 502491.2 | REV EXT TERR | 2.157 | 49.54 | 19914.6 |
| | EXC ESCALONADO | 2.632 | 62.78 | 34085.1 | TERR ESCALONADO | 2.632 | 62.78 | 34085.6 |
| 8280.000 | D TIERRA | 9.178 | 175.22 | 62330.4 | ADECUADO COR | 14.861 | 298.42 | 116838.5 |
| | SUELO EST 3 | 8.626 | 172.53 | 67981.4 | VEGETAL | 4.914 | 93.84 | 29311.5 |
| | TERRAPLEN | 54.173 | 1105.44 | 503596.7 | REV EXT TERR | 2.036 | 41.95 | 19956.6 |
| | EXC ESCALONADO | 2.768 | 55.05 | 34140.1 | TERR ESCALONADO | 2.768 | 55.05 | 34140.6 |
| 8300.000 | D TIERRA | 9.886 | 190.04 | 62520.5 | ADECUADO COR | 16.016 | 305.62 | 117144.1 |
| | SUELO EST 3 | 9.226 | 177.03 | 68158.4 | VEGETAL | 5.325 | 102.11 | 29413.6 |
| | TERRAPLEN | 57.139 | 1110.85 | 504707.5 | REV EXT TERR | 2.336 | 42.71 | 19999.3 |
| | EXC ESCALONADO | 2.553 | 52.38 | 34192.5 | TERR ESCALONADO | 2.553 | 52.38 | 34193.0 |
| 8320.000 | D TIERRA | 9.466 | 192.31 | 62712.8 | ADECUADO COR | 14.786 | 307.18 | 117451.3 |
| | SUELO EST 3 | 8.625 | 177.77 | 68336.2 | VEGETAL | 4.759 | 102.29 | 29515.9 |
| | TERRAPLEN | 51.720 | 1080.35 | 505787.9 | REV EXT TERR | 1.929 | 44.37 | 20043.7 |
| | EXC ESCALONADO | 2.470 | 51.10 | 34243.6 | TERR ESCALONADO | 2.470 | 51.10 | 34244.1 |
| 8340.000 | D TIERRA | 9.973 | 189.77 | 62902.6 | ADECUADO COR | 14.521 | 293.48 | 117744.8 |
| | SUELO EST 3 | 8.521 | 171.82 | 68508.0 | VEGETAL | 4.722 | 94.66 | 29610.6 |
| | TERRAPLEN | 49.900 | 1017.65 | 506805.5 | REV EXT TERR | 1.724 | 36.79 | 20080.4 |
| | EXC ESCALONADO | 2.545 | 49.85 | 34293.4 | TERR ESCALONADO | 2.545 | 49.85 | 34293.9 |
| 8360.000 | D TIERRA | 11.389 | 214.41 | 63117.0 | ADECUADO COR | 14.396 | 288.69 | 118033.5 |
| | SUELO EST 3 | 8.446 | 169.38 | 68677.4 | VEGETAL | 4.532 | 92.68 | 29703.2 |
| | TERRAPLEN | 47.425 | 974.04 | 507779.6 | REV EXT TERR | 1.657 | 33.49 | 20113.9 |
| | EXC ESCALONADO | 2.259 | 47.67 | 34341.1 | TERR ESCALONADO | 2.259 | 47.67 | 34341.6 |
| 8380.000 | D TIERRA | 11.401 | 226.48 | 63343.4 | ADECUADO COR | 14.151 | 283.73 | 118317.2 |
| | SUELO EST 3 | 8.299 | 166.41 | 68843.8 | VEGETAL | 4.553 | 90.92 | 29794.2 |
| | TERRAPLEN | 44.194 | 915.19 | 508694.8 | REV EXT TERR | 1.416 | 29.68 | 20143.6 |
| | EXC ESCALONADO | 2.163 | 44.02 | 34385.1 | TERR ESCALONADO | 2.163 | 44.02 | 34385.6 |
| 8400.000 | D TIERRA | 11.056 | 225.46 | 63568.9 | ADECUADO COR | 14.115 | 282.73 | 118599.9 |
| | SUELO EST 3 | 8.277 | 165.81 | 69009.6 | VEGETAL | 4.566 | 80.84 | 29875.0 |
| | TERRAPLEN | 39.845 | 839.55 | 509534.3 | REV EXT TERR | 1.333 | 27.52 | 20171.1 |
| | EXC ESCALONADO | 2.153 | 40.78 | 34425.9 | TERR ESCALONADO | 2.153 | 40.78 | 34426.4 |
| 8420.000 | D TIERRA | 10.595 | 217.35 | 63786.3 | ADECUADO COR | 14.017 | 281.55 | 118881.5 |
| | SUELO EST 3 | 8.219 | 165.10 | 69174.7 | VEGETAL | 4.936 | 92.86 | 29967.9 |
| | TERRAPLEN | 39.872 | 763.59 | 510297.9 | REV EXT TERR | 1.256 | 25.91 | 20197.0 |
| | EXC ESCALONADO | 2.166 | 42.28 | 34468.2 | TERR ESCALONADO | 2.166 | 42.28 | 34468.7 |
| 8440.000 | D TIERRA | 11.049 | 206.47 | 63992.7 | ADECUADO COR | 14.419 | 280.35 | 119161.8 |
| | SUELO EST 3 | 8.460 | 164.38 | 69339.1 | VEGETAL | 4.386 | 95.31 | 30063.2 |
| | TERRAPLEN | 36.947 | 771.19 | 511069.1 | REV EXT TERR | 1.324 | 25.13 | 20222.2 |
| | EXC ESCALONADO | 2.049 | 40.85 | 34509.1 | TERR ESCALONADO | 2.049 | 40.85 | 34509.5 |
| 8460.000 | D TIERRA | 9.863 | 204.59 | 64197.3 | ADECUADO COR | 13.902 | 280.52 | 119442.4 |
| | SUELO EST 3 | 8.150 | 164.49 | 69503.6 | VEGETAL | 4.662 | 90.68 | 30153.9 |
| | TERRAPLEN | 36.123 | 730.47 | 511799.6 | REV EXT TERR | 1.209 | 24.52 | 20246.7 |
| | EXC ESCALONADO | 1.992 | 41.80 | 34550.8 | TERR ESCALONADO | 1.992 | 41.80 | 34551.3 |
| 8480.000 | D TIERRA | 9.957 | 199.27 | 64396.6 | ADECUADO COR | 13.856 | 277.70 | 119720.1 |
| | SUELO EST 3 | 8.122 | 162.79 | 69666.4 | VEGETAL | 4.470 | 90.09 | 30243.9 |
| | TERRAPLEN | 30.338 | 666.95 | 512466.5 | REV EXT TERR | 1.069 | 22.26 | 20268.9 |
| | EXC ESCALONADO | 1.520 | 37.03 | 34587.9 | TERR ESCALONADO | 1.520 | 37.03 | 34588.4 |
| 8500.000 | D TIERRA | 11.131 | 203.46 | 64600.0 | ADECUADO COR | 14.580 | 280.22 | 120000.3 |
| | SUELO EST 3 | 8.557 | 164.30 | 69830.7 | VEGETAL | 4.578 | 91.61 | 30335.5 |
| | TERRAPLEN | 30.642 | 609.56 | 513076.1 | REV EXT TERR | 1.267 | 22.28 | 20291.2 |
| | EXC ESCALONADO | 1.510 | 30.50 | 34618.4 | TERR ESCALONADO | 1.510 | 30.50 | 34618.9 |
| 8520.000 | D TIERRA | 11.251 | 238.57 | 64838.6 | ADECUADO COR | 14.621 | 305.89 | 120306.2 |
| | SUELO EST 3 | 8.581 | 177.24 | 70007.9 | VEGETAL | 4.514 | 96.14 | 30431.7 |
| | TERRAPLEN | 28.461 | 591.40 | 513667.5 | REV EXT TERR | 1.138 | 28.17 | 20319.4 |
| | EXC ESCALONADO | 1.522 | 30.79 | 34649.2 | TERR ESCALONADO | 1.522 | 30.79 | 34649.6 |
| 8540.000 | D TIERRA | 11.025 | 223.40 | 65062.0 | ADECUADO COR | 14.987 | 295.78 | 120602.0 |
| | SUELO EST 3 | 8.801 | 173.64 | 70181.5 | VEGETAL | 4.865 | 93.31 | 30525.0 |
| | TERRAPLEN | 29.906 | 578.83 | 514246.3 | REV EXT TERR | 1.173 | 23.03 | 20342.4 |
| | EXC ESCALONADO | 1.369 | 27.91 | 34677.1 | TERR ESCALONADO | 1.369 | 27.91 | 34677.6 |
| 8560.000 | D TIERRA | 10.719 | 216.54 | 65278.5 | ADECUADO COR | 15.243 | 302.41 | 120904.4 |
| | SUELO EST 3 | 8.954 | 177.62 | 70359.2 | VEGETAL | 4.881 | 97.92 | 30622.9 |
| | TERRAPLEN | 30.996 | 611.72 | 514858.0 | REV EXT TERR | 1.120 | 23.08 | 20365.5 |
| | EXC ESCALONADO | 1.822 | 32.71 | 34709.8 | TERR ESCALONADO | 1.822 | 32.71 | 34710.3 |
| 8580.000 | D TIERRA | 10.855 | 215.45 | 65494.0 | ADECUADO COR | 15.529 | 307.79 | 121212.1 |
| | SUELO EST 3 | 9.126 | 180.84 | 70540.0 | VEGETAL | 4.923 | 96.90 | 30719.8 |
| | TERRAPLEN | 31.807 | 633.41 | 515491.4 | REV EXT TERR | 1.115 | 22.91 | 20388.4 |
| | EXC ESCALONADO | 1.821 | 36.90 | 34746.7 | TERR ESCALONADO | 1.821 | 36.90 | 34747.2 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 8600.000 | D TIERRA | 11.009 | 218.84 | 65712.8 | ADECUADO COR | 15.941 | 314.73 | 121526.9 |
| | SUELO EST 3 | 9.363 | 184.96 | 70725.0 | VEGETAL | 5.097 | 100.53 | 30820.3 |
| | TERRAPLEN | 32.652 | 642.67 | 516134.1 | REV EXT TERR | 1.210 | 23.23 | 20411.6 |
| | EXC ESCALONADO | 1.857 | 35.84 | 34782.5 | TERR ESCALONADO | 1.857 | 35.84 | 34783.0 |
| 8620.000 | D TIERRA | 11.345 | 225.31 | 65938.1 | ADECUADO COR | 16.286 | 322.15 | 121849.0 |
| | SUELO EST 3 | 9.549 | 189.10 | 70914.1 | VEGETAL | 5.054 | 101.48 | 30921.8 |
| | TERRAPLEN | 32.953 | 646.76 | 516780.9 | REV EXT TERR | 1.266 | 24.59 | 20436.2 |
| | EXC ESCALONADO | 1.902 | 38.75 | 34821.3 | TERR ESCALONADO | 1.902 | 38.75 | 34821.8 |
| 8640.000 | D TIERRA | 10.837 | 221.47 | 66159.6 | ADECUADO COR | 16.704 | 330.65 | 122179.7 |
| | SUELO EST 3 | 9.679 | 192.68 | 71106.7 | VEGETAL | 5.145 | 103.68 | 31025.5 |
| | TERRAPLEN | 36.258 | 693.89 | 517474.8 | REV EXT TERR | 1.467 | 27.34 | 20463.6 |
| | EXC ESCALONADO | 2.134 | 40.21 | 34861.5 | TERR ESCALONADO | 2.134 | 40.21 | 34862.0 |
| 8655.201 | D TIERRA | 10.472 | 159.80 | 66319.4 | ADECUADO COR | 16.778 | 254.87 | 122434.5 |
| | SUELO EST 3 | 9.684 | 147.16 | 71253.9 | VEGETAL | 4.971 | 79.41 | 31104.9 |
| | TERRAPLEN | 41.799 | 581.45 | 518056.2 | REV EXT TERR | 1.797 | 25.60 | 20489.2 |
| | EXC ESCALONADO | 2.479 | 34.31 | 34895.8 | TERR ESCALONADO | 2.479 | 34.31 | 34896.3 |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** MEDICIONES DE LOS CONOS DE DERRAME *****

| ACUMULADO | PK | TERRAPLEN | | DESMONTE | | DESBRUCE | |
|-----------|----------|--------------|-----------|--------------|-----------|--------------|-----------|
| | | VOL. PARCIAL | ACUMULADO | VOL. PARCIAL | ACUMULADO | VOL. PARCIAL | ACUMULADO |
| 418.9 | 1145.519 | 0.00 | 0.0 | 0.00 | 0.0 | 0.0 | 418.94 |
| 621.8 | 1162.329 | 0.00 | 0.0 | 0.00 | 0.0 | 0.0 | 202.83 |
| 633.4 | 6215.885 | 60.48 | 60.5 | 0.08 | 0.1 | 0.1 | 11.66 |
| 654.3 | 6235.832 | 100.06 | 160.5 | 0.00 | 0.1 | 0.1 | 20.90 |

Estas mediciones se acumularan a : TERRAPLEN y D TIERRA
 : EXC ZANJA

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ED50 (HUSO 30)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN |
|-----------------|----------|
| SANEO | 13797.6 |
| D TIERRA | 66319.5 |
| REVEST DESMON | 6.7 |
| ADECUADO COR | 122434.5 |
| SUELO EST 3 | 71253.9 |
| VEGETAL | 31104.9 |
| MUROS | 148.9 |
| TERRAPLEN | 518216.8 |
| REV EXT TERR | 20489.2 |
| EXC ESCALONADO | 34895.8 |
| TERR ESCALONADO | 34896.3 |
| EXC ZANJA | 654.3 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ED50 (HUSO 30)
 EJE : 4 : E1 RAMAL 4 (F4-4.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 15.259 | D TIERRA | 2.314 | 0.00 | 0.0 | ADECUADO COR | 7.371 | 0.00 | 0.0 |
| | SUELO EST 3 | 4.152 | 0.00 | 0.0 | TERRAPLEN | 3.256 | 0.00 | 0.0 |
| | REV EXT TERR | 0.810 | 0.00 | 0.0 | EXC ESCALONADO | 0.361 | 0.00 | 0.0 |
| | TERR ESCALONADO | 0.361 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 8.513 | 25.12 | 25.1 | ADECUADO COR | 6.954 | 33.97 | 34.0 |
| | SUELO EST 3 | 3.998 | 19.33 | 19.3 | VEGETAL | 0.970 | 2.19 | 2.2 |
| | TERRAPLEN | 1.886 | 12.35 | 12.3 | REV EXT TERR | 0.572 | 3.30 | 3.3 |
| | EXC ESCALONADO | 0.081 | 1.04 | 1.0 | TERR ESCALONADO | 0.081 | 1.04 | 1.0 |
| 40.000 | D TIERRA | 6.790 | 146.94 | 172.1 | ADECUADO COR | 5.776 | 121.22 | 155.2 |
| | SUELO EST 3 | 3.300 | 69.33 | 88.7 | VEGETAL | 0.057 | 11.09 | 13.3 |
| | TERRAPLEN | 2.500 | 59.28 | 71.6 | REV EXT TERR | 0.673 | 12.98 | 16.3 |
| | EXC ESCALONADO | 0.515 | 5.96 | 7.0 | TERR ESCALONADO | 0.515 | 5.96 | 7.0 |
| 60.000 | D TIERRA | 9.111 | 171.55 | 343.6 | ADECUADO COR | 6.348 | 121.49 | 276.7 |
| | SUELO EST 3 | 3.646 | 69.62 | 158.3 | VEGETAL | 0.000 | 0.29 | 13.6 |
| | TERRAPLEN | 2.374 | 54.27 | 125.9 | REV EXT TERR | 0.615 | 12.88 | 29.2 |
| | EXC ESCALONADO | 0.549 | 10.84 | 17.8 | TERR ESCALONADO | 0.549 | 10.84 | 17.8 |
| 80.000 | D TIERRA | 8.445 | 175.40 | 519.0 | ADECUADO COR | 6.596 | 129.42 | 406.1 |
| | SUELO EST 3 | 3.789 | 74.34 | 232.6 | TERRAPLEN | 1.515 | 41.19 | 167.1 |
| | REV EXT TERR | 0.622 | 12.81 | 42.0 | EXC ESCALONADO | 0.193 | 7.99 | 25.8 |
| | TERR ESCALONADO | 0.193 | 7.99 | 25.8 | | | | |
| 100.000 | D TIERRA | 11.249 | 201.43 | 720.4 | ADECUADO COR | 6.469 | 130.93 | 537.0 |
| | SUELO EST 3 | 3.833 | 76.36 | 309.0 | TERRAPLEN | 0.000 | 7.58 | 174.7 |
| | REV EXT TERR | 0.344 | 8.77 | 50.7 | EXC ESCALONADO | 0.000 | 0.97 | 26.8 |
| | TERR ESCALONADO | 0.000 | 0.97 | 26.8 | | | | |
| 120.000 | D TIERRA | 2.726 | 141.54 | 862.0 | ADECUADO COR | 6.969 | 133.27 | 670.3 |
| | SUELO EST 3 | 3.872 | 77.09 | 386.1 | VEGETAL | 4.680 | 29.18 | 42.7 |
| | TERRAPLEN | 5.437 | 28.10 | 202.8 | REV EXT TERR | 0.756 | 9.58 | 60.3 |
| | EXC ESCALONADO | 0.355 | 2.03 | 28.8 | TERR ESCALONADO | 0.355 | 2.03 | 28.8 |
| 140.000 | D TIERRA | 2.223 | 50.31 | 912.3 | ADECUADO COR | 7.045 | 140.10 | 810.4 |
| | SUELO EST 3 | 3.891 | 77.67 | 463.7 | VEGETAL | 4.925 | 96.62 | 139.4 |
| | TERRAPLEN | 9.607 | 148.93 | 351.7 | REV EXT TERR | 1.032 | 18.33 | 78.6 |
| | EXC ESCALONADO | 0.239 | 6.02 | 34.9 | TERR ESCALONADO | 0.239 | 6.02 | 34.9 |
| 160.000 | D TIERRA | 1.730 | 39.35 | 951.6 | ADECUADO COR | 7.103 | 141.32 | 951.7 |
| | SUELO EST 3 | 3.902 | 77.93 | 541.7 | VEGETAL | 4.824 | 98.87 | 238.2 |
| | TERRAPLEN | 12.452 | 222.24 | 573.9 | REV EXT TERR | 0.991 | 21.52 | 100.2 |
| | EXC ESCALONADO | 0.284 | 4.74 | 39.6 | TERR ESCALONADO | 0.284 | 4.74 | 39.6 |
| 178.077 | D TIERRA | 1.448 | 28.18 | 979.8 | ADECUADO COR | 7.046 | 124.52 | 1076.2 |
| | SUELO EST 3 | 3.909 | 69.37 | 611.0 | VEGETAL | 2.414 | 71.59 | 309.8 |
| | TERRAPLEN | 5.674 | 163.21 | 737.1 | REV EXT TERR | 0.730 | 12.67 | 112.8 |
| | EXC ESCALONADO | 0.627 | 12.42 | 52.0 | TERR ESCALONADO | 0.627 | 12.42 | 52.0 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ED50 (HUSO 30)
 EJE : 4 : E1 RAMAL 4 (F4-4.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 979.8 |
| ADECUADO COR | 1076.2 |
| SUELO EST 3 | 611.0 |
| VEGETAL | 309.8 |
| TERRAPLEN | 737.1 |
| REV EXT TERR | 112.8 |
| EXC ESCALONADO | 52.0 |
| TERR ESCALONADO | 52.0 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ED50 (HUSO 30)
 EJE : 5 : E1 RAMAL 3 (F4-5.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 160.201 | D TIERRA | 0.404 | 0.00 | 0.0 | ADECUADO COR | 2.853 | 0.00 | 0.0 |
| | SUELO EST 3 | 1.518 | 0.00 | 0.0 | TERRAPLEN | 24.548 | 0.00 | 0.0 |
| | REV EXT TERR | 1.614 | 0.00 | 0.0 | EXC ESCALONADO | 1.334 | 0.00 | 0.0 |
| | TERR ESCALONADO | 1.334 | 0.00 | 0.0 | | | | |
| 180.000 | D TIERRA | 0.477 | 9.00 | 9.0 | ADECUADO COR | 6.725 | 125.02 | 125.0 |
| | SUELO EST 3 | 3.673 | 70.14 | 70.1 | TERRAPLEN | 24.525 | 510.86 | 510.9 |
| | REV EXT TERR | 1.635 | 31.69 | 31.7 | EXC ESCALONADO | 2.235 | 46.84 | 46.8 |
| | TERR ESCALONADO | 2.235 | 46.84 | 46.8 | | | | |
| 200.000 | D TIERRA | 1.416 | 16.20 | 25.2 | ADECUADO COR | 6.943 | 134.43 | 259.4 |
| | SUELO EST 3 | 3.907 | 74.20 | 144.3 | TERRAPLEN | 16.213 | 414.59 | 925.4 |
| | REV EXT TERR | 1.164 | 29.09 | 60.8 | EXC ESCALONADO | 1.342 | 34.09 | 80.9 |
| | TERR ESCALONADO | 1.342 | 34.09 | 80.9 | | | | |
| 220.000 | D TIERRA | 0.000 | 21.76 | 47.0 | ADECUADO COR | 6.758 | 136.40 | 395.8 |
| | SUELO EST 3 | 3.853 | 77.53 | 221.9 | TERRAPLEN | 0.000 | 212.42 | 1137.9 |
| | REV EXT TERR | 0.679 | 17.86 | 78.6 | EXC ESCALONADO | 0.000 | 19.24 | 100.2 |
| | TERR ESCALONADO | 0.000 | 19.24 | 100.2 | | | | |
| 240.000 | D TIERRA | 2.233 | 6.38 | 53.3 | ADECUADO COR | 6.374 | 132.58 | 528.4 |
| | SUELO EST 3 | 3.643 | 75.58 | 297.5 | TERRAPLEN | 1.047 | 3.45 | 1141.3 |
| | REV EXT TERR | 0.385 | 9.99 | 88.6 | EXC ESCALONADO | 0.285 | 1.05 | 101.2 |
| | TERR ESCALONADO | 0.285 | 1.05 | 101.2 | | | | |
| 260.000 | REVES CUNETAS | 0.112 | 0.78 | 0.8 | D TIERRA | 8.420 | 83.39 | 136.7 |
| | REVEST DESMON | 0.133 | 0.98 | 1.0 | ADECUADO COR | 6.652 | 125.10 | 653.5 |
| | SUELO EST 3 | 3.880 | 72.05 | 369.5 | TERRAPLEN | 0.081 | 8.33 | 1149.6 |
| | REV EXT TERR | 0.270 | 6.55 | 95.2 | EXC ESCALONADO | 0.080 | 2.50 | 103.7 |
| | TERR ESCALONADO | 0.080 | 2.50 | 103.7 | | | | |
| 280.000 | REVES CUNETAS | 0.000 | 1.45 | 2.2 | D TIERRA | 5.865 | 156.93 | 293.7 |
| | REVEST DESMON | 0.000 | 1.43 | 2.4 | ADECUADO COR | 6.580 | 130.17 | 783.7 |
| | SUELO EST 3 | 3.796 | 75.30 | 444.8 | VEGETAL | 0.000 | 0.25 | 0.2 |
| | TERRAPLEN | 0.000 | 0.12 | 1149.8 | REV EXT TERR | 0.360 | 6.17 | 101.3 |
| | EXC ESCALONADO | 0.000 | 0.12 | 103.8 | TERR ESCALONADO | 0.000 | 0.12 | 103.8 |
| 300.000 | D TIERRA | 11.472 | 195.47 | 489.1 | ADECUADO COR | 6.978 | 135.02 | 918.7 |
| | SUELO EST 3 | 4.001 | 77.43 | 522.2 | VEGETAL | 0.000 | 0.14 | 0.4 |
| | REV EXT TERR | 0.543 | 9.01 | 110.4 | | | | |
| 313.515 | D TIERRA | 0.000 | 11.92 | 501.1 | ADECUADO COR | 7.378 | 96.75 | 1015.5 |
| | SUELO EST 3 | 4.144 | 55.16 | 577.4 | REV EXT TERR | 0.778 | 8.97 | 119.3 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ED50 (HUSO 30)
 EJE : 5 : E1 RAMAL 3 (F4-5.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| REVES CUNETAS | 2.2 |
| D TIERRA | 501.1 |
| REVEST DESMON | 2.4 |
| ADECUADO COR | 1015.5 |
| SUELO EST 3 | 577.4 |
| VEGETAL | 0.4 |
| TERRAPLEN | 1149.8 |
| REV EXT TERR | 119.3 |
| EXC ESCALONADO | 103.8 |
| TERR ESCALONADO | 103.8 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ED50 (HUSO 30)
 EJE : 8 : E1 RAMAL 1 (F4-8.vol)

Istram 22.08.08.03 03/11/22 12:22:04 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 10 : E2 GLORIETA (PI 5.8 Y 6.0) (F4-10.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 198.678 | D TIERRA | 0.955 | 0.00 | 0.0 | ADECUADO COR | 5.788 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.305 | 0.00 | 0.0 | VEGETAL | 5.566 | 0.00 | 0.0 |
| | TERRAPLEN | 78.018 | 0.00 | 0.0 | REV EXT TERR | 2.114 | 0.00 | 0.0 |
| | EXC ESCALONADO | 0.447 | 0.00 | 0.0 | TERR ESCALONADO | 0.447 | 0.00 | 0.0 |
| 200.000 | D TIERRA | 0.973 | 1.27 | 1.3 | ADECUADO COR | 5.814 | 7.67 | 7.7 |
| | SUELO EST 3 | 3.321 | 4.38 | 4.4 | VEGETAL | 5.585 | 7.37 | 7.4 |
| | TERRAPLEN | 78.384 | 103.38 | 103.4 | REV EXT TERR | 2.118 | 2.80 | 2.8 |
| | EXC ESCALONADO | 0.460 | 0.60 | 0.6 | TERR ESCALONADO | 0.460 | 0.60 | 0.6 |
| 220.000 | D TIERRA | 1.615 | 24.45 | 25.7 | ADECUADO COR | 6.145 | 119.40 | 127.1 |
| | SUELO EST 3 | 3.508 | 68.19 | 72.6 | VEGETAL | 5.782 | 113.84 | 121.2 |
| | TERRAPLEN | 79.984 | 1609.50 | 1712.9 | REV EXT TERR | 2.166 | 43.00 | 45.8 |
| | EXC ESCALONADO | 0.616 | 8.95 | 9.6 | TERR ESCALONADO | 0.616 | 8.95 | 9.6 |
| 240.000 | D TIERRA | 1.091 | 31.21 | 56.9 | ADECUADO COR | 6.528 | 128.85 | 255.9 |
| | SUELO EST 3 | 3.556 | 71.04 | 143.6 | VEGETAL | 6.021 | 119.48 | 240.7 |
| | TERRAPLEN | 84.062 | 1657.75 | 3370.6 | REV EXT TERR | 2.597 | 47.38 | 93.2 |
| | EXC ESCALONADO | 1.931 | 19.52 | 29.1 | TERR ESCALONADO | 1.931 | 19.52 | 29.1 |
| 260.000 | D TIERRA | 0.995 | 20.52 | 77.5 | ADECUADO COR | 6.525 | 130.61 | 386.5 |
| | SUELO EST 3 | 3.552 | 71.14 | 214.7 | VEGETAL | 5.603 | 117.54 | 358.2 |
| | TERRAPLEN | 78.290 | 1657.86 | 5028.5 | REV EXT TERR | 2.933 | 56.44 | 149.6 |
| | EXC ESCALONADO | 2.178 | 43.58 | 72.7 | TERR ESCALONADO | 2.178 | 43.58 | 72.7 |
| 280.000 | D TIERRA | 1.063 | 20.12 | 97.6 | ADECUADO COR | 6.518 | 130.38 | 516.9 |
| | SUELO EST 3 | 3.547 | 70.96 | 285.7 | VEGETAL | 4.773 | 103.92 | 462.1 |
| | TERRAPLEN | 56.492 | 1361.96 | 6390.4 | REV EXT TERR | 2.517 | 54.72 | 204.3 |
| | EXC ESCALONADO | 1.522 | 38.97 | 111.6 | TERR ESCALONADO | 1.522 | 38.97 | 111.6 |
| 300.000 | D TIERRA | 1.093 | 21.31 | 118.9 | ADECUADO COR | 6.518 | 130.36 | 647.3 |
| | SUELO EST 3 | 3.547 | 70.93 | 356.6 | VEGETAL | 4.603 | 94.10 | 556.2 |
| | TERRAPLEN | 39.641 | 968.75 | 7359.2 | REV EXT TERR | 2.136 | 46.62 | 251.0 |
| | EXC ESCALONADO | 0.699 | 21.90 | 133.5 | TERR ESCALONADO | 0.699 | 21.90 | 133.5 |
| 320.000 | D TIERRA | 1.094 | 22.13 | 141.0 | ADECUADO COR | 6.518 | 130.36 | 777.6 |
| | SUELO EST 3 | 3.547 | 70.93 | 427.6 | VEGETAL | 4.341 | 87.02 | 643.3 |
| | TERRAPLEN | 25.757 | 658.59 | 8017.8 | REV EXT TERR | 1.669 | 38.01 | 289.0 |
| | EXC ESCALONADO | 0.972 | 16.98 | 150.5 | TERR ESCALONADO | 0.972 | 16.98 | 150.5 |
| 340.000 | D TIERRA | 1.120 | 21.81 | 162.8 | ADECUADO COR | 6.461 | 130.07 | 907.7 |
| | SUELO EST 3 | 3.547 | 70.93 | 498.5 | VEGETAL | 3.380 | 75.26 | 718.5 |
| | TERRAPLEN | 14.917 | 388.26 | 8406.1 | REV EXT TERR | 1.167 | 28.45 | 317.4 |
| | EXC ESCALONADO | 1.126 | 23.65 | 174.2 | TERR ESCALONADO | 1.126 | 23.65 | 174.2 |
| 360.000 | D TIERRA | 2.701 | 72.24 | 235.1 | ADECUADO COR | 6.329 | 124.28 | 1032.0 |
| | SUELO EST 3 | 3.547 | 70.11 | 568.6 | VEGETAL | 0.000 | 25.14 | 743.7 |
| | TERRAPLEN | 6.941 | 193.69 | 8599.7 | REV EXT TERR | 0.876 | 18.59 | 336.0 |
| | EXC ESCALONADO | 1.508 | 35.58 | 209.7 | TERR ESCALONADO | 1.508 | 35.58 | 209.7 |
| 380.000 | D TIERRA | 6.395 | 94.79 | 329.9 | REVEST DESMON | 0.055 | 0.28 | 0.3 |
| | ADECUADO COR | 5.920 | 120.43 | 1152.4 | SUELO EST 3 | 3.385 | 68.54 | 637.2 |
| | TERRAPLEN | 0.894 | 72.33 | 8672.1 | REV EXT TERR | 0.361 | 11.82 | 347.8 |
| | EXC ESCALONADO | 0.645 | 21.17 | 230.9 | TERR ESCALONADO | 0.645 | 21.17 | 230.9 |
| 400.000 | D TIERRA | 12.670 | 190.01 | 519.9 | REVEST DESMON | 0.275 | 3.50 | 3.8 |
| | ADECUADO COR | 5.709 | 117.07 | 1269.5 | SUELO EST 3 | 3.382 | 67.69 | 704.8 |
| | TERRAPLEN | 0.000 | 4.59 | 8676.7 | REV EXT TERR | 0.137 | 4.96 | 352.8 |
| | EXC ESCALONADO | 0.000 | 3.37 | 234.3 | TERR ESCALONADO | 0.000 | 3.37 | 234.3 |
| 420.000 | D TIERRA | 14.407 | 278.30 | 798.2 | REVEST DESMON | 0.197 | 5.41 | 9.2 |
| | ADECUADO COR | 5.370 | 110.79 | 1380.3 | SUELO EST 3 | 3.218 | 66.19 | 771.0 |
| | REV EXT TERR | 0.000 | 1.25 | 354.0 | | | | |
| 440.000 | D TIERRA | 13.274 | 243.10 | 1041.3 | REVEST DESMON | 0.020 | 1.32 | 10.5 |
| | ADECUADO COR | 5.162 | 93.72 | 1474.0 | SUELO EST 3 | 3.097 | 56.20 | 827.2 |
| 460.000 | D TIERRA | 13.652 | 273.93 | 1315.2 | REVEST DESMON | 0.000 | 0.28 | 10.8 |
| | ADECUADO COR | 5.622 | 109.01 | 1583.0 | SUELO EST 3 | 3.374 | 65.40 | 892.6 |
| | REV EXT TERR | 0.051 | 0.26 | 354.3 | | | | |
| 470.280 | D TIERRA | 13.600 | 140.09 | 1455.3 | ADECUADO COR | 5.759 | 58.50 | 1641.5 |
| | SUELO EST 3 | 3.456 | 35.10 | 927.7 | REV EXT TERR | 0.115 | 0.85 | 355.1 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ED50 (HUSO 30)
 EJE : 8 : E1 RAMAL 1 (F4-8.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 1455.3 |
| REVEST DESMON | 10.8 |
| ADECUADO COR | 1641.5 |
| SUELO EST 3 | 927.7 |
| VEGETAL | 743.7 |
| TERRAPLEN | 8676.7 |
| REV EXT TERR | 355.1 |
| EXC ESCALONADO | 234.3 |
| TERR ESCALONADO | 234.3 |

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | SANE0 | 33.529 | 0.00 | 0.0 | D TIERRA | 241.690 | 0.00 | 0.0 |
| | REVEST DESMON | 0.881 | 0.00 | 0.0 | ADECUADO COR | 6.995 | 0.00 | 0.0 |
| | SUELO EST 3 | 4.198 | 0.00 | 0.0 | VEGETAL | 4.227 | 0.00 | 0.0 |
| | TERRAPLEN | 50.338 | 0.00 | 0.0 | EXC ESCALONADO | 1.731 | 0.00 | 0.0 |
| 20.000 | TERR ESCALONADO | 1.731 | 0.00 | 0.0 | | | | |
| | SANE0 | 44.615 | 760.26 | 760.3 | D TIERRA | 212.822 | 4562.86 | 4562.9 |
| | REVEST DESMON | 0.904 | 17.82 | 17.8 | ADECUADO COR | 7.671 | 143.26 | 143.3 |
| | SUELO EST 3 | 4.604 | 85.98 | 86.0 | VEGETAL | 4.946 | 92.33 | 92.3 |
| | TERRAPLEN | 76.006 | 1242.89 | 1242.9 | EXC ESCALONADO | 1.249 | 30.60 | 30.6 |
| | TERR ESCALONADO | 1.249 | 30.60 | 30.6 | | | | |
| 40.000 | SANE0 | 0.000 | 645.73 | 1406.0 | D TIERRA | 222.526 | 4264.00 | 8826.9 |
| | REVEST DESMON | 0.917 | 18.17 | 36.0 | ADECUADO COR | 7.610 | 191.37 | 334.6 |
| | SUELO EST 3 | 4.567 | 114.86 | 200.8 | VEGETAL | 0.000 | 67.00 | 159.3 |
| | TERRAPLEN | 29.832 | 1377.30 | 2620.2 | EXC ESCALONADO | 0.804 | 26.43 | 57.0 |
| | TERR ESCALONADO | 0.804 | 26.43 | 57.0 | | | | |
| 60.000 | SANE0 | 19.363 | 147.39 | 1553.4 | D TIERRA | 211.306 | 4332.79 | 13159.6 |
| | REVEST DESMON | 0.893 | 18.16 | 54.1 | ADECUADO COR | 7.904 | 172.20 | 506.8 |
| | SUELO EST 3 | 4.744 | 103.35 | 304.2 | VEGETAL | 3.910 | 24.61 | 183.9 |
| | TERRAPLEN | 63.737 | 847.50 | 3467.7 | EXC ESCALONADO | 1.557 | 31.35 | 88.4 |
| | TERR ESCALONADO | 1.557 | 31.35 | 88.4 | | | | |
| 80.000 | SANE0 | 9.782 | 288.97 | 1842.3 | D TIERRA | 256.519 | 4668.15 | 17827.8 |
| | REVEST DESMON | 0.877 | 17.77 | 71.9 | ADECUADO COR | 7.036 | 144.65 | 651.5 |
| | SUELO EST 3 | 4.223 | 86.82 | 391.0 | VEGETAL | 2.909 | 69.53 | 253.5 |
| | TERRAPLEN | 25.469 | 858.09 | 4325.8 | EXC ESCALONADO | 3.963 | 49.16 | 137.5 |
| | TERR ESCALONADO | 3.963 | 49.16 | 137.5 | | | | |
| 100.000 | SANE0 | 0.000 | 74.60 | 1916.9 | D TIERRA | 247.759 | 4045.41 | 21873.2 |
| | REVEST DESMON | 0.286 | 5.86 | 77.8 | ADECUADO COR | 9.885 | 166.80 | 181.3 |
| | SUELO EST 3 | 5.933 | 100.11 | 491.1 | VEGETAL | 5.243 | 98.39 | 351.9 |
| | TERRAPLEN | 0.832 | 197.76 | 4523.5 | EXC ESCALONADO | 0.288 | 31.23 | 168.8 |
| | TERR ESCALONADO | 0.288 | 31.23 | 168.8 | | | | |
| 120.000 | D TIERRA | 251.796 | 4772.07 | 26645.3 | REVEST DESMON | 0.663 | 7.98 | 85.8 |
| | ADECUADO COR | 6.995 | 154.01 | 972.3 | SUELO EST 3 | 4.198 | 92.43 | 583.5 |
| | VEGETAL | 5.130 | 108.68 | 460.5 | TERRAPLEN | 26.991 | 155.48 | 4679.0 |
| | SANE0 | 47.014 | 589.81 | 2506.8 | D TIERRA | 131.468 | 3925.29 | 30570.6 |
| | REVEST DESMON | 0.932 | 18.18 | 103.9 | ADECUADO COR | 6.995 | 139.90 | 1112.2 |
| | SUELO EST 3 | 4.198 | 83.96 | 667.5 | VEGETAL | 7.129 | 119.38 | 579.9 |
| | TERRAPLEN | 137.459 | 1814.47 | 6493.5 | EXC ESCALONADO | 1.749 | 28.86 | 201.6 |
| | TERR ESCALONADO | 1.749 | 28.86 | 201.6 | | | | |
| 160.000 | SANE0 | 78.117 | 1312.25 | 3819.0 | D TIERRA | 25.869 | 1515.50 | 32086.1 |
| | REVEST DESMON | 0.724 | 17.09 | 121.0 | ADECUADO COR | 6.995 | 139.90 | 1252.1 |
| | SUELO EST 3 | 4.198 | 83.96 | 751.5 | VEGETAL | 9.003 | 163.76 | 743.7 |
| | TERRAPLEN | 215.002 | 3620.21 | 10113.7 | EXC ESCALONADO | 0.974 | 31.99 | 233.6 |
| | TERR ESCALONADO | 0.974 | 31.99 | 233.6 | | | | |
| 180.000 | SANE0 | 93.691 | 1743.35 | 5562.4 | D TIERRA | 27.288 | 223.69 | 32309.8 |
| | REVEST DESMON | 0.901 | 6.68 | 127.7 | ADECUADO COR | 10.013 | 158.48 | 1410.6 |
| | SUELO EST 3 | 6.010 | 95.12 | 846.6 | VEGETAL | 9.844 | 185.57 | 929.2 |
| | TERRAPLEN | 249.503 | 4670.62 | 14784.3 | EXC ESCALONADO | 0.800 | 13.80 | 247.4 |
| | TERR ESCALONADO | 0.800 | 13.80 | 247.4 | | | | |
| 200.000 | SANE0 | 98.743 | 1968.00 | 7530.3 | D TIERRA | 15.799 | 444.23 | 32754.0 |
| | REVEST DESMON | 0.000 | 4.51 | 132.2 | ADECUADO COR | 6.995 | 160.12 | 1570.7 |
| | SUELO EST 3 | 4.198 | 96.10 | 942.7 | VEGETAL | 10.137 | 206.81 | 1136.1 |
| | TERRAPLEN | 275.544 | 5269.08 | 20053.4 | EXC ESCALONADO | 1.971 | 34.07 | 281.4 |
| | TERR ESCALONADO | 1.971 | 34.07 | 281.4 | | | | |
| 220.000 | SANE0 | 92.550 | 1909.00 | 9439.3 | D TIERRA | 8.736 | 181.98 | 32936.0 |
| | ADECUADO COR | 6.995 | 139.90 | 1710.6 | SUELO EST 3 | 4.198 | 83.96 | 1026.7 |
| | VEGETAL | 8.933 | 192.39 | 1328.4 | TERRAPLEN | 260.683 | 5488.30 | 25541.7 |
| | EXC ESCALONADO | 7.309 | 62.77 | 344.2 | TERR ESCALONADO | 7.309 | 62.77 | 344.2 |
| 240.000 | SANE0 | 70.472 | 1594.70 | 11034.0 | D TIERRA | 4.797 | 234.45 | 33170.4 |
| | REVEST DESMON | 0.000 | 0.09 | 132.3 | ADECUADO COR | 6.995 | 139.90 | 1850.5 |
| | SUELO EST 3 | 4.198 | 83.96 | 1110.6 | VEGETAL | 8.760 | 166.45 | 1494.9 |
| | TERRAPLEN | 191.319 | 4538.25 | 30079.9 | EXC ESCALONADO | 1.841 | 57.63 | 401.8 |
| | TERR ESCALONADO | 1.841 | 57.63 | 401.8 | | | | |
| 260.000 | SANE0 | 0.000 | 541.60 | 11575.6 | D TIERRA | 3.055 | 53.06 | 33223.5 |
| | ADECUADO COR | 9.022 | 150.68 | 2001.2 | SUELO EST 3 | 5.415 | 90.43 | 1201.0 |
| | VEGETAL | 8.758 | 151.95 | 1646.8 | TERRAPLEN | 93.080 | 2534.26 | 32614.2 |
| | EXC ESCALONADO | 0.532 | 30.64 | 432.5 | TERR ESCALONADO | 0.532 | 30.64 | 432.5 |
| 280.000 | SANE0 | 0.001 | 0.01 | 11575.6 | D TIERRA | 8.227 | 70.45 | 33293.9 |
| | ADECUADO COR | 6.871 | 149.42 | 2150.6 | SUELO EST 3 | 4.124 | 89.6 | |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 10 : E2 GLORIETA (PI 5.8 Y 6.0) (F4-10.vol)

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 11 : E2 VIAL 1 C-260 (11.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 300.000 | SANEO | 47.481 | 237.41 | 11813.1 | D TIERRA | 14.805 | 244.61 | 33538.5 |
| | ADECUADO COR | 7.056 | 172.72 | 2323.3 | SUELO EST 3 | 4.235 | 103.67 | 1394.4 |
| | VEGETAL | 12.593 | 194.70 | 1940.6 | TERRAPLEN | 138.982 | 1964.94 | 36341.1 |
| | EXC ESCALONADO | 1.065 | 10.08 | 449.0 | TERR ESCALONADO | 1.065 | 10.08 | 449.0 |
| 320.000 | SANEO | 74.732 | 1245.15 | 13058.2 | D TIERRA | 26.143 | 399.44 | 33938.0 |
| | ADECUADO COR | 6.995 | 140.20 | 2463.5 | SUELO EST 3 | 4.198 | 84.15 | 1478.5 |
| | VEGETAL | 10.009 | 216.79 | 2157.4 | TERRAPLEN | 174.878 | 3163.04 | 39504.2 |
| | EXC ESCALONADO | 1.192 | 24.08 | 473.1 | TERR ESCALONADO | 1.192 | 24.08 | 473.1 |
| 340.000 | SANEO | 88.605 | 1639.85 | 14698.1 | D TIERRA | 32.919 | 606.45 | 34544.4 |
| | REVEST DESMON | 0.000 | 0.10 | 132.4 | ADECUADO COR | 6.995 | 139.90 | 2603.4 |
| | SUELO EST 3 | 4.198 | 83.96 | 1562.5 | VEGETAL | 9.318 | 188.45 | 2345.9 |
| | TERRAPLEN | 182.632 | 3580.92 | 43085.1 | EXC ESCALONADO | 0.553 | 13.99 | 487.1 |
| | TERR ESCALONADO | 0.553 | 13.99 | 487.1 | | | | |
| 360.000 | SANEO | 92.084 | 1828.49 | 16526.5 | D TIERRA | 45.577 | 755.88 | 35300.3 |
| | REVEST DESMON | 3.066 | 50.18 | 182.6 | ADECUADO COR | 9.200 | 155.14 | 2758.6 |
| | SUELO EST 3 | 5.522 | 93.11 | 1655.6 | VEGETAL | 9.615 | 191.02 | 2536.9 |
| | TERRAPLEN | 190.580 | 3824.52 | 46909.6 | EXC ESCALONADO | 0.635 | 15.48 | 502.5 |
| | TERR ESCALONADO | 0.635 | 15.48 | 502.5 | | | | |
| 380.000 | SANEO | 87.994 | 1807.63 | 18334.2 | D TIERRA | 11.830 | 360.88 | 35661.2 |
| | REVEST DESMON | 0.552 | 15.44 | 198.0 | ADECUADO COR | 6.995 | 164.69 | 2923.3 |
| | SUELO EST 3 | 4.198 | 98.85 | 1754.5 | VEGETAL | 9.110 | 185.62 | 2722.5 |
| | TERRAPLEN | 173.732 | 3664.39 | 50574.0 | EXC ESCALONADO | 0.632 | 12.75 | 515.3 |
| | TERR ESCALONADO | 0.632 | 12.75 | 515.3 | | | | |
| 400.000 | SANEO | 76.076 | 1656.67 | 19990.8 | D TIERRA | 77.826 | 782.55 | 36443.7 |
| | REVEST DESMON | 1.068 | 17.50 | 215.5 | ADECUADO COR | 6.995 | 139.90 | 3063.2 |
| | SUELO EST 3 | 4.198 | 83.96 | 1838.4 | VEGETAL | 8.212 | 176.39 | 2898.9 |
| | TERRAPLEN | 146.026 | 3145.97 | 53720.0 | EXC ESCALONADO | 1.265 | 14.90 | 530.2 |
| | TERR ESCALONADO | 1.265 | 14.90 | 530.2 | | | | |
| 420.000 | SANEO | 44.364 | 1248.42 | 21239.3 | D TIERRA | 201.785 | 2687.04 | 39130.8 |
| | REVEST DESMON | 1.110 | 21.82 | 237.4 | ADECUADO COR | 6.995 | 139.90 | 3203.1 |
| | SUELO EST 3 | 4.198 | 83.96 | 1922.4 | VEGETAL | 6.493 | 150.30 | 3049.2 |
| | TERRAPLEN | 85.569 | 2372.12 | 56092.1 | EXC ESCALONADO | 1.228 | 22.33 | 552.5 |
| | TERR ESCALONADO | 1.228 | 22.33 | 552.5 | | | | |
| 440.000 | SANEO | 29.304 | 713.02 | 21952.3 | D TIERRA | 279.496 | 5017.95 | 44148.7 |
| | REVEST DESMON | 0.382 | 19.07 | 256.4 | ADECUADO COR | 6.995 | 139.90 | 3343.0 |
| | SUELO EST 3 | 4.198 | 83.96 | 2006.4 | VEGETAL | 5.168 | 109.94 | 3159.1 |
| | TERRAPLEN | 40.859 | 1242.36 | 57334.4 | EXC ESCALONADO | 0.812 | 20.45 | 573.0 |
| | TERR ESCALONADO | 0.812 | 20.45 | 573.0 | | | | |
| 460.000 | SANEO | 21.225 | 354.05 | 22306.3 | D TIERRA | 251.822 | 5253.43 | 49402.2 |
| | REVEST DESMON | 0.486 | 6.99 | 263.4 | ADECUADO COR | 10.067 | 155.26 | 3498.2 |
| | SUELO EST 3 | 6.042 | 93.18 | 2099.5 | VEGETAL | 6.729 | 118.95 | 3278.1 |
| | TERRAPLEN | 17.623 | 358.87 | 57693.3 | EXC ESCALONADO | 1.538 | 14.58 | 587.5 |
| | TERR ESCALONADO | 1.538 | 14.58 | 587.5 | | | | |
| 480.000 | SANEO | 30.581 | 533.52 | 22839.9 | D TIERRA | 247.829 | 5115.11 | 54517.3 |
| | REVEST DESMON | 0.935 | 16.87 | 280.3 | ADECUADO COR | 6.995 | 165.93 | 3664.1 |
| | SUELO EST 3 | 4.198 | 99.58 | 2199.1 | VEGETAL | 4.211 | 123.04 | 3401.1 |
| | TERRAPLEN | 44.546 | 644.23 | 58337.5 | EXC ESCALONADO | 1.901 | 32.22 | 619.8 |
| | TERR ESCALONADO | 1.901 | 32.22 | 619.8 | | | | |
| 483.805 | SANEO | 33.529 | 121.22 | 22961.1 | D TIERRA | 241.691 | 931.68 | 55448.9 |
| | REVEST DESMON | 0.881 | 3.49 | 283.8 | ADECUADO COR | 6.995 | 26.62 | 3690.8 |
| | SUELO EST 3 | 4.198 | 15.97 | 2215.1 | VEGETAL | 4.227 | 16.14 | 3417.3 |
| | TERRAPLEN | 50.338 | 179.88 | 58517.4 | EXC ESCALONADO | 1.731 | 8.07 | 627.8 |
| | TERR ESCALONADO | 1.731 | 8.07 | 627.8 | | | | |

Istram 22.08.08.03 03/11/22 12:22:04 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 10 : E2 GLORIETA (PI 5.8 Y 6.0) (F4-10.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 22961.1 |
| D TIERRA | 55448.9 |
| REVEST DESMON | 283.8 |
| ADECUADO COR | 3690.8 |
| SUELO EST 3 | 2215.1 |
| VEGETAL | 3417.3 |
| TERRAPLEN | 58517.4 |
| EXC ESCALONADO | 627.8 |
| TERR ESCALONADO | 627.8 |

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 9.839 | 0.00 | 0.0 | ADECUADO COR | 4.517 | 0.00 | 0.0 |
| | SUELO EST 3 | 2.710 | 0.00 | 0.0 | REV EXT TERR | 0.037 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 9.306 | 175.53 | 175.5 | ADECUADO COR | 4.785 | 96.31 | 96.3 |
| | SUELO EST 3 | 2.871 | 57.77 | 57.8 | REV EXT TERR | 0.141 | 3.21 | 3.2 |
| 40.000 | D TIERRA | 9.655 | 190.10 | 365.6 | ADECUADO COR | 4.684 | 94.00 | 190.3 |
| | SUELO EST 3 | 2.811 | 56.40 | 114.2 | REV EXT TERR | 0.093 | 1.98 | 5.2 |
| 60.000 | D TIERRA | 12.548 | 205.56 | 571.2 | ADECUADO COR | 5.906 | 99.98 | 290.3 |
| | SUELO EST 3 | 3.544 | 59.98 | 174.2 | REV EXT TERR | 0.070 | 1.72 | 6.9 |
| 80.000 | D TIERRA | 13.017 | 308.78 | 880.0 | ADECUADO COR | 8.074 | 155.24 | 445.5 |
| | SUELO EST 3 | 4.844 | 93.14 | 267.3 | VEGETAL | 1.745 | 20.40 | 20.4 |
| | TERRAPLEN | 0.000 | 2.95 | 3.0 | REV EXT TERR | 0.130 | 2.27 | 9.2 |
| 88.522 | D TIERRA | 4.230 | 67.49 | 947.4 | ADECUADO COR | 3.241 | 45.69 | 491.2 |
| | SUELO EST 3 | 1.914 | 27.34 | 294.6 | VEGETAL | 0.036 | 6.04 | 26.4 |
| | REV EXT TERR | 0.350 | 1.37 | 10.5 | | | | |

Istram 22.08.08.03 03/11/22 12:22:04 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 11 : E2 VIAL 1 C-260 (11.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 947.4 |
| ADECUADO COR | 491.2 |
| SUELO EST 3 | 294.6 |
| VEGETAL | 26.4 |
| TERRAPLEN | 3.0 |
| REV EXT TERR | 10.5 |

Istram 22.08.08.03 03/11/22 12:22:04 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 12 : E2 VIAL 2 C-260 (F4-12.vol)

Istram 22.08.08.03 03/11/22 12:22:04 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 13 : E2 RAMAL 3 (F4-13.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 44.962 | D TIERRA | 20.455 | 0.00 | 0.0 | ADECUADO COR | 10.925 | 0.00 | 0.0 |
| | SUELO EST 3 | 6.555 | 0.00 | 0.0 | REV EXT TERR | 0.057 | 0.00 | 0.0 |
| 60.000 | D TIERRA | 19.989 | 307.89 | 307.9 | ADECUADO COR | 10.917 | 163.43 | 163.4 |
| | SUELO EST 3 | 6.550 | 98.06 | 98.1 | REV EXT TERR | 0.053 | 0.73 | 0.7 |
| 80.000 | D TIERRA | 18.264 | 382.59 | 690.5 | ADECUADO COR | 11.096 | 220.34 | 383.8 |
| | SUELO EST 3 | 6.658 | 132.21 | 230.3 | REV EXT TERR | 0.139 | 2.02 | 2.8 |
| 100.000 | SANEO | 7.920 | 111.10 | 111.1 | D TIERRA | 10.487 | 235.55 | 926.0 |
| | ADECUADO COR | 14.074 | 238.99 | 622.8 | SUELO EST 3 | 8.397 | 143.20 | 373.5 |
| | VEGETAL | 0.793 | 11.13 | 11.1 | TERRAPLEN | 3.059 | 22.44 | 22.4 |
| | REV EXT TERR | 0.327 | 4.65 | 7.4 | EXC ESCALONADO | 0.528 | 4.80 | 4.8 |
| | TERR ESCALONADO | 0.528 | 4.80 | 4.8 | | | | |
| 114.457 | SANEO | 0.000 | 53.89 | 165.0 | D TIERRA | 2.235 | 117.29 | 1043.3 |
| | ADECUADO COR | 4.330 | 182.32 | 805.1 | SUELO EST 3 | 2.300 | 106.85 | 480.3 |
| | VEGETAL | 0.000 | 5.40 | 16.5 | TERRAPLEN | 0.000 | 13.24 | 35.7 |
| | REV EXT TERR | 0.601 | 6.76 | 14.2 | EXC ESCALONADO | 0.000 | 2.14 | 6.9 |
| | TERR ESCALONADO | 0.000 | 2.14 | 6.9 | | | | |

Istram 22.08.08.03 03/11/22 12:22:04 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 12 : E2 VIAL 2 C-260 (F4-12.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 165.0 |
| D TIERRA | 1043.3 |
| ADECUADO COR | 805.1 |
| SUELO EST 3 | 480.3 |
| VEGETAL | 16.5 |
| TERRAPLEN | 35.7 |
| REV EXT TERR | 14.2 |
| EXC ESCALONADO | 6.9 |
| TERR ESCALONADO | 6.9 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 159.052 | D TIERRA | 7.363 | 0.00 | 0.0 | ADECUADO COR | 5.579 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.151 | 0.00 | 0.0 | VEGETAL | 1.524 | 0.00 | 0.0 |
| | TERRAPLEN | 23.872 | 0.00 | 0.0 | REV EXT TERR | 2.500 | 0.00 | 0.0 |
| | EXC ESCALONADO | 6.161 | 0.00 | 0.0 | TERR ESCALONADO | 6.161 | 0.00 | 0.0 |
| 160.000 | D TIERRA | 5.700 | 6.19 | 6.2 | ADECUADO COR | 5.580 | 5.29 | 5.3 |
| | SUELO EST 3 | 3.151 | 2.99 | 3.0 | VEGETAL | 1.069 | 1.23 | 1.2 |
| | TERRAPLEN | 24.598 | 22.97 | 23.0 | REV EXT TERR | 2.542 | 2.39 | 2.4 |
| | EXC ESCALONADO | 6.597 | 6.05 | 6.0 | TERR ESCALONADO | 6.597 | 6.05 | 6.0 |
| 180.000 | D TIERRA | 10.142 | 170.41 | 176.6 | ADECUADO COR | 5.578 | 111.58 | 116.9 |
| | SUELO EST 3 | 3.151 | 63.02 | 66.0 | VEGETAL | 3.475 | 44.83 | 46.1 |
| | TERRAPLEN | 21.238 | 451.34 | 474.3 | REV EXT TERR | 1.791 | 40.16 | 42.6 |
| | EXC ESCALONADO | 2.660 | 85.06 | 91.1 | TERR ESCALONADO | 2.660 | 85.06 | 91.1 |
| 200.000 | D TIERRA | 8.411 | 182.02 | 358.6 | ADECUADO COR | 5.579 | 111.57 | 228.4 |
| | SUELO EST 3 | 3.151 | 63.02 | 129.0 | VEGETAL | 2.690 | 62.91 | 109.0 |
| | TERRAPLEN | 22.484 | 439.43 | 913.7 | REV EXT TERR | 1.911 | 37.13 | 79.7 |
| | EXC ESCALONADO | 2.628 | 53.26 | 144.4 | TERR ESCALONADO | 2.628 | 53.26 | 144.4 |
| 220.000 | D TIERRA | 6.750 | 154.52 | 513.1 | ADECUADO COR | 5.579 | 111.58 | 340.0 |
| | SUELO EST 3 | 3.151 | 63.01 | 192.0 | VEGETAL | 2.723 | 53.54 | 162.5 |
| | TERRAPLEN | 23.981 | 448.85 | 1362.6 | REV EXT TERR | 1.992 | 39.01 | 118.7 |
| | EXC ESCALONADO | 2.936 | 55.66 | 200.0 | TERR ESCALONADO | 2.936 | 55.66 | 200.0 |
| 240.000 | D TIERRA | 0.000 | 33.07 | 546.2 | ADECUADO COR | 0.000 | 49.68 | 389.7 |
| | SUELO EST 3 | 0.000 | 29.02 | 221.1 | VEGETAL | 0.000 | 14.72 | 177.2 |
| | TERRAPLEN | 0.000 | 166.67 | 1529.3 | REV EXT TERR | 0.000 | 14.21 | 132.9 |
| | EXC ESCALONADO | 0.000 | 20.28 | 220.3 | TERR ESCALONADO | 0.000 | 20.28 | 220.3 |
| 260.000 | D TIERRA | 4.455 | 26.10 | 572.3 | ADECUADO COR | 5.579 | 67.74 | 457.4 |
| | SUELO EST 3 | 3.151 | 39.81 | 260.9 | VEGETAL | 0.942 | 9.16 | 186.4 |
| | TERRAPLEN | 34.319 | 321.21 | 1850.5 | REV EXT TERR | 2.279 | 19.81 | 152.7 |
| | EXC ESCALONADO | 3.260 | 25.24 | 245.6 | TERR ESCALONADO | 3.260 | 25.24 | 245.6 |
| 280.000 | D TIERRA | 6.564 | 111.03 | 683.3 | ADECUADO COR | 5.578 | 111.57 | 569.0 |
| | SUELO EST 3 | 3.149 | 63.00 | 323.9 | VEGETAL | 0.926 | 19.16 | 205.6 |
| | MUROS | 1.302 | 12.59 | 12.6 | TERRAPLEN | 24.275 | 611.94 | 2462.4 |
| | REV EXT TERR | 0.984 | 33.46 | 186.2 | EXC ESCALONADO | 3.166 | 63.94 | 309.5 |
| | TERR ESCALONADO | 3.166 | 63.94 | 309.5 | | | | |
| 300.000 | D TIERRA | 16.861 | 238.66 | 922.0 | REVEST DESMON | 0.373 | 3.14 | 3.1 |
| | ADECUADO COR | 6.553 | 127.52 | 696.5 | SUELO EST 3 | 3.722 | 72.36 | 396.2 |
| | VEGETAL | 1.092 | 20.40 | 226.0 | MUROS | 1.339 | 30.21 | 42.8 |
| | TERRAPLEN | 12.623 | 343.29 | 2805.7 | REV EXT TERR | 0.537 | 12.14 | 198.3 |
| | EXC ESCALONADO | 2.043 | 51.43 | 360.9 | TERR ESCALONADO | 2.043 | 51.43 | 360.9 |
| 320.000 | D TIERRA | 41.409 | 511.75 | 1433.7 | REVEST DESMON | 0.818 | 11.92 | 15.1 |
| | ADECUADO COR | 4.916 | 130.14 | 826.7 | SUELO EST 3 | 2.937 | 74.03 | 470.3 |
| | VEGETAL | 0.953 | 19.23 | 245.2 | MUROS | 0.000 | 12.10 | 54.9 |
| | TERRAPLEN | 0.105 | 151.11 | 2956.8 | REV EXT TERR | 0.000 | 15.54 | 213.8 |
| | EXC ESCALONADO | 0.000 | 27.95 | 388.9 | TERR ESCALONADO | 0.000 | 27.95 | 388.9 |
| 340.000 | SANEO | 0.000 | 48.81 | 48.8 | D TIERRA | 84.642 | 1186.87 | 2620.6 |
| | REVEST DESMON | 1.494 | 21.87 | 36.9 | ADECUADO COR | 5.657 | 111.02 | 937.7 |
| | SUELO EST 3 | 3.335 | 65.53 | 535.8 | VEGETAL | 1.337 | 19.91 | 265.1 |
| | TERRAPLEN | 0.107 | 1.43 | 2958.2 | | | | |
| 360.000 | SANEO | 14.777 | 196.45 | 245.3 | D TIERRA | 93.990 | 1770.16 | 4390.8 |
| | REVEST DESMON | 0.000 | 19.99 | 56.9 | ADECUADO COR | 5.758 | 114.33 | 1052.0 |
| | SUELO EST 3 | 3.394 | 67.40 | 603.2 | VEGETAL | 2.482 | 38.08 | 303.2 |
| | TERRAPLEN | 0.005 | 0.56 | 2958.8 | | | | |
| 380.000 | SANEO | 12.175 | 276.45 | 521.7 | D TIERRA | 105.560 | 2001.57 | 6392.3 |
| | REVEST DESMON | 0.000 | 13.17 | 70.1 | ADECUADO COR | 5.758 | 115.17 | 1167.2 |
| | SUELO EST 3 | 3.397 | 67.90 | 671.1 | VEGETAL | 3.259 | 58.23 | 361.4 |
| | TERRAPLEN | 0.008 | 0.15 | 2958.9 | | | | |
| 400.000 | SANEO | 9.569 | 219.81 | 741.5 | D TIERRA | 91.998 | 2194.39 | 8586.7 |
| | ADECUADO COR | 5.756 | 115.15 | 1282.3 | SUELO EST 3 | 3.401 | 68.01 | 739.1 |
| | VEGETAL | 1.836 | 49.02 | 410.4 | TERRAPLEN | 0.000 | 0.03 | 2959.0 |
| 403.529 | SANEO | 9.021 | 32.95 | 774.5 | D TIERRA | 70.042 | 291.86 | 8878.6 |
| | ADECUADO COR | 4.760 | 18.66 | 1301.0 | SUELO EST 3 | 2.856 | 11.01 | 750.1 |
| | VEGETAL | 1.817 | 6.46 | 416.9 | TERRAPLEN | 0.003 | 0.01 | 2959.0 |
| | REV EXT TERR | 0.087 | 0.15 | 214.0 | | | | |

Istram 22.08.08.03 03/11/22 12:22:05 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 13 : E2 RAMAL 3 (F4-13.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 774.5 |
| D TIERRA | 8878.6 |
| REVEST DESMON | 70.1 |
| ADECUADO COR | 1301.0 |
| SUELO EST 3 | 750.1 |
| VEGETAL | 416.9 |
| MUROS | 54.9 |
| TERRAPLEN | 2959.0 |
| REV EXT TERR | 214.0 |
| EXC ESCALONADO | 388.9 |
| TERR ESCALONADO | 388.9 |

Istram 22.08.08.03 03/11/22 12:22:05 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 15 : E2 RAMAL 2 (F4-15.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 24.808 | D TIERRA | 34.048 | 0.00 | 0.0 | REVEST DESMON | 0.578 | 0.00 | 0.0 |
| | ADECUADO COR | 6.695 | 0.00 | 0.0 | SUELO EST 3 | 4.015 | 0.00 | 0.0 |
| | VEGETAL | 0.110 | 0.00 | 0.0 | TERRAPLEN | 0.006 | 0.00 | 0.0 |
| 40.000 | D TIERRA | 39.555 | 590.14 | 590.1 | REVEST DESMON | 0.106 | 9.06 | 9.1 |
| | ADECUADO COR | 6.695 | 101.71 | 101.7 | SUELO EST 3 | 4.016 | 61.00 | 61.0 |
| | VEGETAL | 0.475 | 4.05 | 4.0 | TERRAPLEN | 0.013 | 0.11 | 0.1 |
| 60.000 | D TIERRA | 32.633 | 735.84 | 1326.0 | REVEST DESMON | 0.000 | 0.37 | 9.4 |
| | ADECUADO COR | 5.560 | 127.13 | 228.8 | SUELO EST 3 | 3.335 | 76.27 | 137.3 |
| | VEGETAL | 0.914 | 12.85 | 16.9 | TERRAPLEN | 0.107 | 0.83 | 0.9 |
| 80.000 | D TIERRA | 19.164 | 521.36 | 1847.3 | ADECUADO COR | 5.634 | 116.92 | 345.8 |
| | SUELO EST 3 | 3.380 | 70.08 | 207.4 | VEGETAL | 0.978 | 20.56 | 37.5 |
| | MUROS | 1.213 | 13.76 | 13.8 | TERRAPLEN | 1.288 | 6.39 | 7.3 |
| | REV EXT TERR | 0.000 | 0.41 | 0.4 | EXC ESCALONADO | 0.634 | 3.02 | 3.0 |
| | TERR ESCALONADO | 0.634 | 3.02 | 3.0 | | | | |
| 100.000 | D TIERRA | 6.170 | 240.73 | 2088.1 | REVEST DESMON | 0.033 | 0.12 | 9.5 |
| | ADECUADO COR | 5.865 | 114.32 | 460.1 | SUELO EST 3 | 3.348 | 67.75 | 275.1 |
| | VEGETAL | 2.214 | 29.64 | 67.1 | MUROS | 1.866 | 32.61 | 46.4 |
| | TERRAPLEN | 16.403 | 142.93 | 150.3 | REV EXT TERR | 0.298 | 1.84 | 2.2 |
| | EXC ESCALONADO | 2.294 | 29.79 | 32.8 | TERR ESCALONADO | 2.294 | 29.79 | 32.8 |
| 120.000 | D TIERRA | 0.273 | 20.01 | 2108.1 | REVEST DESMON | 0.000 | 0.03 | 9.6 |
| | ADECUADO COR | 6.043 | 111.87 | 572.0 | SUELO EST 3 | 3.425 | 63.63 | 338.7 |
| | VEGETAL | 3.257 | 51.02 | 118.1 | MUROS | 1.481 | 34.13 | 80.5 |
| | TERRAPLEN | 46.264 | 608.04 | 758.3 | REV EXT TERR | 1.214 | 13.62 | 15.9 |
| | EXC ESCALONADO | 2.918 | 53.31 | 86.1 | TERR ESCALONADO | 2.918 | 53.31 | 86.1 |
| 140.000 | SANEO | 1.188 | 5.94 | 5.9 | D TIERRA | 0.243 | 3.48 | 211.6 |
| | ADECUADO COR | 6.323 | 125.22 | 697.2 | SUELO EST 3 | 3.433 | 68.68 | 407.4 |
| | VEGETAL | 4.295 | 76.54 | 194.7 | MUROS | 0.761 | 22.77 | 103.3 |
| | TERRAPLEN | 84.189 | 1300.10 | 2058.4 | REV EXT TERR | 2.388 | 36.68 | 52.6 |
| | EXC ESCALONADO | 7.577 | 79.24 | 165.4 | TERR ESCALONADO | 7.577 | 79.24 | 165.4 |
| 160.000 | SANEO | 5.453 | 41.81 | 47.8 | D TIERRA | 0.550 | 7.94 | 2119.5 |
| | ADECUADO COR | 6.455 | 126.49 | 823.7 | SUELO EST 3 | 3.534 | 68.81 | 476.2 |
| | VEGETAL | 4.091 | 92.65 | 287.3 | MUROS | 0.000 | 6.25 | 109.5 |
| | TERRAPLEN | 120.198 | 2039.26 | 4097.7 | REV EXT TERR | 3.151 | 57.04 | 109.6 |
| | EXC ESCALONADO | 3.887 | 101.34 | 266.7 | TERR ESCALONADO | 3.887 | 101.34 | 266.7 |
| 180.000 | SANEO | 4.676 | 121.35 | 169.1 | D TIERRA | 0.490 | 10.55 | 2130.1 |
| | ADECUADO COR | 6.243 | 127.47 | 951.1 | SUELO EST 3 | 3.531 | 70.67 | 546.9 |
| | VEGETAL | 4.508 | 81.33 | 368.6 | TERRAPLEN | 135.082 | 2586.41 | 6684.1 |
| | REV EXT TERR | 3.251 | 64.40 | 174.0 | EXC ESCALONADO | 4.364 | 81.38 | 348.1 |
| | TERR ESCALONADO | 4.364 | 81.38 | 348.1 | | | | |
| 200.000 | SANEO | 3.656 | 84.39 | 253.5 | D TIERRA | 0.575 | 10.73 | 2140.8 |
| | ADECUADO COR | 5.879 | 120.93 | 1072.1 | SUELO EST 3 | 3.362 | 69.07 | 616.0 |
| | VEGETAL | 4.776 | 93.67 | 462.3 | TERRAPLEN | 132.144 | 2695.50 | 9379.6 |
| | REV EXT TERR | 3.090 | 63.47 | 237.5 | EXC ESCALONADO | 4.116 | 80.43 | 428.5 |
| | TERR ESCALONADO | 4.116 | 80.43 | 428.5 | | | | |
| 220.000 | SANEO | 0.000 | 87.84 | 341.3 | D TIERRA | 0.000 | 11.60 | 2152.4 |
| | ADECUADO COR | 0.000 | 95.88 | 1167.9 | SUELO EST 3 | 0.000 | 55.79 | 671.8 |
| | VEGETAL | 0.000 | 55.71 | 518.0 | TERRAPLEN | 0.000 | 1893.95 | 11273.5 |
| | REV EXT TERR | 0.000 | 45.29 | 282.8 | EXC ESCALONADO | 0.000 | 43.50 | 472.0 |
| | TERR ESCALONADO | 0.000 | 43.50 | 472.0 | | | | |

Istram 22.08.08.03 03/11/22 12:22:06 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 15 : E2 RAMAL 2 (F4-15.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 341.3 |
| D TIERRA | 2152.4 |
| REVEST DESMON | 9.6 |
| ADECUADO COR | 1167.9 |
| SUELO EST 3 | 671.8 |
| VEGETAL | 518.0 |
| MUROS | 109.5 |
| TERRAPLEN | 11273.5 |
| REV EXT TERR | 282.8 |
| EXC ESCALONADO | 472.0 |
| TERR ESCALONADO | 472.0 |

Istram 22.08.08.03 03/11/22 12:22:06 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 16 : E2 RAMAL 4 (F4-16_2.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 28.000 | D TIERRA | 67.061 | 0.00 | 0.0 | REVEST DESMON | 2.656 | 0.00 | 0.0 |
| | ADECUADO COR | 5.114 | 0.00 | 0.0 | SUELO EST 3 | 3.026 | 0.00 | 0.0 |
| | VEGETAL | 1.186 | 0.00 | 0.0 | TERRAPLEN | 0.772 | 0.00 | 0.0 |
| 40.000 | D TIERRA | 103.784 | 1024.93 | 1024.9 | REVEST DESMON | 2.248 | 29.96 | 30.0 |
| | ADECUADO COR | 6.469 | 70.79 | 70.8 | SUELO EST 3 | 3.829 | 41.93 | 41.9 |
| | VEGETAL | 1.473 | 16.64 | 16.6 | TERRAPLEN | 0.000 | 3.23 | 3.2 |
| 60.000 | D TIERRA | 103.381 | 2281.64 | 3306.6 | REVEST DESMON | 2.062 | 48.09 | 78.1 |
| | ADECUADO COR | 6.469 | 129.38 | 200.2 | SUELO EST 3 | 3.828 | 76.57 | 118.5 |
| | VEGETAL | 1.420 | 24.21 | 40.9 | TERRAPLEN | 0.750 | 5.93 | 9.2 |
| 80.000 | D TIERRA | 21.486 | 1376.30 | 4682.9 | REVEST DESMON | 1.356 | 32.32 | 110.4 |
| | ADECUADO COR | 6.122 | 125.91 | 326.1 | SUELO EST 3 | 3.620 | 74.49 | 193.0 |
| | VEGETAL | 0.000 | 16.16 | 57.0 | TERRAPLEN | 0.749 | 14.70 | 23.8 |
| 100.000 | D TIERRA | 0.232 | 147.05 | 4829.9 | REVEST DESMON | 0.973 | 23.53 | 133.9 |
| | ADECUADO COR | 6.519 | 129.72 | 455.8 | SUELO EST 3 | 3.698 | 74.40 | 267.4 |
| | TERRAPLEN | 0.802 | 15.64 | 39.5 | REV EXT TERR | 1.018 | 11.79 | 11.8 |
| 120.000 | D TIERRA | 1.342 | 26.44 | 4856.4 | REVEST DESMON | 0.000 | 2.36 | 136.3 |
| | ADECUADO COR | 5.427 | 112.14 | 568.0 | SUELO EST 3 | 3.055 | 63.24 | 330.6 |
| | TERRAPLEN | 25.229 | 320.57 | 360.1 | REV EXT TERR | 1.713 | 27.36 | 39.2 |
| | EXC ESCALONADO | 2.086 | 30.71 | 30.7 | TERR ESCALONADO | 2.086 | 30.71 | 30.7 |
| 140.000 | D TIERRA | 1.304 | 26.27 | 4882.6 | ADECUADO COR | 5.308 | 107.36 | 675.3 |
| | SUELO EST 3 | 2.984 | 60.39 | 391.0 | TERRAPLEN | 32.485 | 595.67 | 955.7 |
| | REV EXT TERR | 1.971 | 37.73 | 76.9 | EXC ESCALONADO | 2.882 | 49.27 | 80.0 |
| | TERR ESCALONADO | 2.882 | 49.27 | 80.0 | | | | |
| 160.000 | D TIERRA | 0.996 | 19.55 | 4902.2 | ADECUADO COR | 5.754 | 113.70 | 789.0 |
| | SUELO EST 3 | 3.446 | 64.76 | 455.8 | TERRAPLEN | 0.395 | 273.42 | 1229.1 |
| | REV EXT TERR | 0.075 | 23.34 | 100.2 | EXC ESCALONADO | 0.000 | 24.34 | 104.3 |
| | TERR ESCALONADO | 0.000 | 24.34 | 104.3 | | | | |
| 180.000 | D TIERRA | 2.207 | 32.64 | 4934.8 | REVEST DESMON | 0.086 | 1.57 | 137.8 |
| | ADECUADO COR | 6.260 | 122.11 | 911.1 | SUELO EST 3 | 3.555 | 70.18 | 526.0 |
| | TERRAPLEN | 0.002 | 0.23 | 1229.4 | REV EXT TERR | 1.904 | 24.13 | 124.3 |
| 200.000 | D TIERRA | 2.585 | 48.78 | 4983.6 | REVEST DESMON | 0.088 | 1.73 | 139.6 |
| | ADECUADO COR | 6.249 | 125.14 | 1036.3 | SUELO EST 3 | 3.551 | 71.08 | 597.0 |
| | TERRAPLEN | 0.001 | 0.03 | 1229.4 | REV EXT TERR | 1.570 | 31.62 | 156.0 |
| 220.000 | D TIERRA | 2.165 | 48.83 | 5032.4 | REVEST DESMON | 0.083 | 1.72 | 141.3 |
| | ADECUADO COR | 6.227 | 124.75 | 1161.0 | SUELO EST 3 | 3.543 | 70.95 | 668.0 |
| | TERRAPLEN | 0.002 | 0.03 | 1229.4 | REV EXT TERR | 1.709 | 33.04 | 189.0 |
| 240.000 | D TIERRA | 10.614 | 187.07 | 5219.5 | REVEST DESMON | 0.073 | 1.64 | 142.9 |
| | ADECUADO COR | 6.188 | 124.17 | 1285.2 | SUELO EST 3 | 3.526 | 70.71 | 738.7 |
| | TERRAPLEN | 22.577 | 313.67 | 1543.1 | REV EXT TERR | 1.764 | 34.85 | 223.9 |
| | EXC ESCALONADO | 2.499 | 38.71 | 143.0 | TERR ESCALONADO | 2.499 | 38.71 | 143.0 |
| 260.000 | D TIERRA | 5.056 | 170.89 | 5390.4 | REVEST DESMON | 0.000 | 1.17 | 144.1 |
| | ADECUADO COR | 5.151 | 117.88 | 1403.1 | SUELO EST 3 | 2.909 | 67.04 | 805.7 |
| | TERRAPLEN | 30.313 | 520.40 | 2063.5 | REV EXT TERR | 1.849 | 35.93 | 259.8 |
| | EXC ESCALONADO | 2.489 | 49.74 | 192.8 | TERR ESCALONADO | 2.489 | 49.74 | 192.8 |
| 280.000 | D TIERRA | 4.154 | 91.16 | 5481.6 | ADECUADO COR | 5.124 | 102.69 | 1505.8 |
| | SUELO EST 3 | 2.897 | 58.02 | 863.7 | TERRAPLEN | 33.722 | 653.25 | 2716.8 |
| | REV EXT TERR | 1.975 | 38.29 | 298.1 | EXC ESCALONADO | 2.692 | 52.74 | 245.5 |
| | TERR ESCALONADO | 2.692 | 52.74 | 245.5 | | | | |
| 300.000 | D TIERRA | 4.121 | 81.07 | 5562.6 | ADECUADO COR | 5.127 | 102.52 | 1608.3 |
| | SUELO EST 3 | 2.898 | 57.95 | 921.7 | TERRAPLEN | 37.538 | 733.85 | 3450.6 |
| | REV EXT TERR | 2.163 | 41.47 | 339.5 | EXC ESCALONADO | 2.542 | 55.36 | 300.9 |
| | TERR ESCALONADO | 2.542 | 55.36 | 300.9 | | | | |
| 320.000 | D TIERRA | 4.391 | 86.33 | 5648.9 | ADECUADO COR | 5.127 | 102.54 | 1710.8 |
| | SUELO EST 3 | 2.898 | 57.95 | 979.7 | TERRAPLEN | 43.205 | 828.81 | 4279.4 |
| | REV EXT TERR | 2.222 | 43.75 | 383.3 | EXC ESCALONADO | 2.485 | 49.49 | 350.4 |
| | TERR ESCALONADO | 2.485 | 49.49 | 350.4 | | | | |
| 340.000 | D TIERRA | 4.063 | 83.84 | 5732.8 | ADECUADO COR | 5.127 | 102.54 | 1813.3 |
| | SUELO EST 3 | 2.898 | 57.95 | 1037.6 | TERRAPLEN | 48.758 | 926.33 | 5205.7 |
| | REV EXT TERR | 2.386 | 46.12 | 429.4 | EXC ESCALONADO | 2.563 | 51.64 | 402.0 |
| | TERR ESCALONADO | 2.563 | 51.64 | 402.0 | | | | |
| 360.000 | D TIERRA | 3.844 | 77.36 | 5810.1 | ADECUADO COR | 5.127 | 102.54 | 1915.9 |
| | SUELO EST 3 | 2.898 | 57.95 | 1095.6 | TERRAPLEN | 49.902 | 995.33 | 6201.1 |
| | REV EXT TERR | 2.431 | 48.39 | 477.8 | EXC ESCALONADO | 2.718 | 52.48 | 454.5 |
| | TERR ESCALONADO | 2.718 | 52.48 | 454.5 | | | | |
| 380.000 | D TIERRA | 5.594 | 93.51 | 5903.7 | ADECUADO COR | 5.127 | 102.54 | 2018.4 |
| | SUELO EST 3 | 2.898 | 57.96 | 1153.5 | TERRAPLEN | 44.499 | 966.59 | 7167.7 |
| | REV EXT TERR | 2.229 | 47.17 | 525.0 | EXC ESCALONADO | 2.322 | 53.58 | 508.1 |
| | TERR ESCALONADO | 2.322 | 53.58 | 508.1 | | | | |
| 400.000 | D TIERRA | 5.730 | 113.66 | 6017.3 | ADECUADO COR | 5.127 | 102.54 | 2121.0 |
| | SUELO EST 3 | 2.898 | 57.95 | 1211.5 | TERRAPLEN | 43.670 | 891.74 | 8059.4 |
| | REV EXT TERR | 2.196 | 44.09 | 569.1 | EXC ESCALONADO | 2.923 | 47.54 | 555.6 |
| | TERR ESCALONADO | 2.923 | 47.54 | 555.6 | | | | |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 16 : E2 RAMAL 4 (F4-16_2.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 420.000 | D TIERRA | 6.166 | 117.46 | 6134.8 | ADECUADO COR | 5.127 | 102.54 | 2223.5 |
| | SUELO EST 3 | 2.898 | 57.96 | 1269.4 | TERRAPLEN | 39.309 | 833.01 | 8892.4 |
| | REV EXT TERR | 2.151 | 43.43 | 612.5 | EXC ESCALONADO | 2.292 | 78.85 | 634.4 |
| | TERR ESCALONADO | 2.292 | 78.85 | 634.4 | | | | |
| 440.000 | D TIERRA | 12.074 | 155.47 | 6290.2 | ADECUADO COR | 5.127 | 102.54 | 2326.0 |
| | SUELO EST 3 | 2.898 | 57.95 | 1327.4 | TERRAPLEN | 16.962 | 606.60 | 9499.0 |
| | REV EXT TERR | 1.529 | 39.03 | 651.5 | EXC ESCALONADO | 1.394 | 54.02 | 688.5 |
| | TERR ESCALONADO | 1.394 | 54.02 | 688.5 | | | | |
| 460.000 | D TIERRA | 0.000 | 296.15 | 6586.4 | ADECUADO COR | 0.000 | 84.60 | 2410.6 |
| | SUELO EST 3 | 0.000 | 47.81 | 1375.2 | TERRAPLEN | 0.000 | 290.74 | 9789.8 |
| | REV EXT TERR | 0.000 | 21.14 | 672.7 | EXC ESCALONADO | 0.000 | 16.15 | 704.6 |
| | TERR ESCALONADO | 0.000 | 16.15 | 704.6 | | | | |
| 620.000 | D TIERRA | 7.876 | 103.96 | 6690.4 | ADECUADO COR | 5.127 | 69.21 | 2479.9 |
| | SUELO EST 3 | 2.898 | 39.12 | 1414.3 | TERRAPLEN | 37.826 | 505.62 | 10295.4 |
| | REV EXT TERR | 2.107 | 28.45 | 701.1 | EXC ESCALONADO | 2.574 | 34.09 | 738.7 |
| | TERR ESCALONADO | 2.574 | 34.09 | 738.7 | | | | |
| 640.000 | D TIERRA | 8.221 | 159.16 | 6849.5 | ADECUADO COR | 5.097 | 102.17 | 2582.0 |
| | SUELO EST 3 | 2.884 | 57.78 | 1472.1 | TERRAPLEN | 39.827 | 784.24 | 11079.6 |
| | REV EXT TERR | 2.103 | 42.54 | 743.6 | EXC ESCALONADO | 2.668 | 52.76 | 791.5 |
| | TERR ESCALONADO | 2.668 | 52.76 | 791.5 | | | | |
| 660.000 | D TIERRA | 9.282 | 168.38 | 7017.9 | ADECUADO COR | 5.094 | 101.91 | 2683.9 |
| | SUELO EST 3 | 2.883 | 57.67 | 1529.8 | TERRAPLEN | 33.544 | 764.74 | 11844.3 |
| | REV EXT TERR | 1.894 | 40.93 | 784.6 | EXC ESCALONADO | 2.306 | 52.56 | 844.0 |
| | TERR ESCALONADO | 2.306 | 52.56 | 844.0 | | | | |
| 668.000 | D TIERRA | 9.705 | 176.08 | 7094.0 | ADECUADO COR | 5.094 | 40.76 | 2724.7 |
| | SUELO EST 3 | 2.883 | 23.06 | 1552.8 | TERRAPLEN | 30.153 | 251.89 | 12096.2 |
| | REV EXT TERR | 1.896 | 15.08 | 799.6 | EXC ESCALONADO | 2.328 | 18.61 | 862.6 |
| | TERR ESCALONADO | 2.328 | 18.61 | 862.6 | | | | |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 16 : E2 RAMAL 4 (F4-16_2.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 7094.0 |
| REVEST DESMON | 144.1 |
| ADECUADO COR | 2724.7 |
| SUELO EST 3 | 1552.8 |
| VEGETAL | 57.0 |
| TERRAPLEN | 12096.2 |
| REV EXT TERR | 799.6 |
| EXC ESCALONADO | 862.6 |
| TERR ESCALONADO | 862.6 |

Istram 22.08.08.03 03/11/22 12:22:07 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 19 : E2 RAMAL 5 (19.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 23.693 | D TIERRA | 7.198 | 0.00 | 0.0 | ADECUADO COR | 6.458 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.648 | 0.00 | 0.0 | REV EXT TERR | 0.507 | 0.00 | 0.0 |
| 36.262 | D TIERRA | 0.000 | 76.32 | 76.3 | ADECUADO COR | 5.261 | 74.39 | 74.4 |
| | SUELO EST 3 | 3.156 | 43.51 | 43.5 | REV EXT TERR | 0.200 | 4.48 | 4.5 |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 19 : E2 RAMAL 5 (19.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 76.3 |
| ADECUADO COR | 74.4 |
| SUELO EST 3 | 43.5 |
| REV EXT TERR | 4.5 |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 21 : E2 RAMAL 1 (F4-21.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 152.615 | D TIERRA | 1.621 | 0.00 | 0.0 | ADECUADO COR | 5.824 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.323 | 0.00 | 0.0 | TERRAPLEN | 82.017 | 0.00 | 0.0 |
| | REV EXT TERR | 3.329 | 0.00 | 0.0 | EXC ESCALONADO | 0.975 | 0.00 | 0.0 |
| | TERR ESCALONADO | 0.975 | 0.00 | 0.0 | | | | |
| 160.000 | D TIERRA | 1.375 | 11.21 | 11.2 | ADECUADO COR | 5.820 | 42.99 | 43.0 |
| | SUELO EST 3 | 3.321 | 24.53 | 24.5 | TERRAPLEN | 82.723 | 607.93 | 607.9 |
| | REV EXT TERR | 3.356 | 24.66 | 24.7 | EXC ESCALONADO | 0.923 | 7.05 | 7.0 |
| | TERR ESCALONADO | 0.923 | 7.05 | 7.0 | | | | |
| 180.000 | D TIERRA | 0.907 | 21.81 | 33.0 | ADECUADO COR | 5.676 | 113.92 | 156.9 |
| | SUELO EST 3 | 3.236 | 64.94 | 89.5 | TERRAPLEN | 85.090 | 1671.77 | 2279.7 |
| | REV EXT TERR | 2.371 | 57.26 | 81.9 | EXC ESCALONADO | 0.861 | 17.09 | 24.1 |
| | TERR ESCALONADO | 0.861 | 17.09 | 24.1 | | | | |
| 200.000 | D TIERRA | 0.000 | 10.54 | 43.6 | ADECUADO COR | 5.808 | 115.69 | 272.6 |
| | SUELO EST 3 | 3.315 | 66.02 | 155.5 | TERRAPLEN | 0.000 | 1096.12 | 3375.8 |
| | REV EXT TERR | 2.540 | 48.25 | 130.2 | EXC ESCALONADO | 0.000 | 11.01 | 35.2 |
| | TERR ESCALONADO | 0.000 | 11.01 | 35.2 | | | | |
| 220.000 | ADECUADO COR | 5.808 | 116.16 | 388.8 | SUELO EST 3 | 3.315 | 66.30 | 221.8 |
| | REV EXT TERR | 2.639 | 52.43 | 182.6 | | | | |
| 240.000 | ADECUADO COR | 5.808 | 116.16 | 504.9 | SUELO EST 3 | 3.315 | 66.30 | 288.1 |
| | REV EXT TERR | 3.532 | 65.37 | 248.0 | | | | |
| 260.000 | ADECUADO COR | 5.808 | 116.16 | 621.1 | SUELO EST 3 | 3.315 | 66.30 | 354.4 |
| | REV EXT TERR | 3.519 | 70.44 | 318.4 | | | | |
| 280.000 | ADECUADO COR | 5.815 | 116.19 | 737.3 | SUELO EST 3 | 3.318 | 66.31 | 420.7 |
| | TERRAPLEN | 58.983 | 245.54 | 3621.4 | REV EXT TERR | 1.413 | 61.00 | 379.4 |
| | EXC ESCALONADO | 1.553 | 5.94 | 41.1 | TERR ESCALONADO | 1.553 | 5.94 | 41.1 |
| 300.000 | ADECUADO COR | 5.828 | 116.15 | 853.4 | SUELO EST 3 | 3.325 | 66.43 | 487.1 |
| | TERRAPLEN | 56.896 | 1112.84 | 4734.2 | REV EXT TERR | 2.467 | 34.37 | 413.8 |
| | EXC ESCALONADO | 2.393 | 40.07 | 81.2 | TERR ESCALONADO | 2.393 | 40.07 | 81.2 |
| 320.000 | D TIERRA | 1.186 | 10.73 | 54.3 | ADECUADO COR | 5.228 | 114.78 | 968.2 |
| | SUELO EST 3 | 2.962 | 65.40 | 552.5 | TERRAPLEN | 25.830 | 818.84 | 5553.0 |
| | REV EXT TERR | 1.598 | 39.17 | 452.9 | EXC ESCALONADO | 2.065 | 46.97 | 128.1 |
| | TERR ESCALONADO | 2.065 | 46.97 | 128.1 | | | | |
| 340.000 | D TIERRA | 0.000 | 1.12 | 55.4 | REVEST DESMON | 0.528 | 6.19 | 6.2 |
| | ADECUADO COR | 5.826 | 113.66 | 1081.8 | SUELO EST 3 | 3.320 | 64.69 | 617.2 |
| | TERRAPLEN | 0.000 | 23.70 | 5576.7 | REV EXT TERR | 1.094 | 26.77 | 479.7 |
| | EXC ESCALONADO | 0.000 | 1.92 | 130.1 | TERR ESCALONADO | 0.000 | 1.92 | 130.1 |
| 360.000 | REVEST DESMON | 0.596 | 11.53 | 17.7 | ADECUADO COR | 5.106 | 112.15 | 1194.0 |
| | SUELO EST 3 | 3.064 | 64.78 | 682.0 | REV EXT TERR | 0.000 | 12.34 | 492.1 |
| 380.000 | D TIERRA | 47.779 | 529.03 | 584.4 | REVEST DESMON | 0.668 | 12.03 | 29.8 |
| | ADECUADO COR | 5.895 | 113.97 | 1308.0 | SUELO EST 3 | 3.537 | 68.38 | 750.4 |
| 400.000 | D TIERRA | 40.060 | 852.39 | 1436.8 | REVEST DESMON | 0.471 | 11.91 | 41.7 |
| | ADECUADO COR | 5.659 | 119.35 | 1427.3 | SUELO EST 3 | 3.395 | 71.61 | 822.0 |
| 413.637 | D TIERRA | 26.210 | 456.78 | 1893.6 | REVEST DESMON | 0.530 | 7.04 | 48.7 |
| | ADECUADO COR | 6.483 | 87.12 | 1514.4 | SUELO EST 3 | 3.890 | 52.29 | 874.3 |
| | REV EXT TERR | 0.160 | 1.77 | 493.8 | | | | |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 21 : E2 RAMAL 1 (F4-21.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 1893.6 |
| REVEST DESMON | 48.7 |
| ADECUADO COR | 1514.4 |
| SUELO EST 3 | 874.3 |
| TERRAPLEN | 5576.7 |
| REV EXT TERR | 493.8 |
| EXC ESCALONADO | 130.1 |
| TERR ESCALONADO | 130.1 |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 22 : E3 GLORIETA 1 (22.vol1)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 4.740 | 0.00 | 0.0 | ADECUADO COR | 8.798 | 0.00 | 0.0 |
| | SUELO EST 3 | 5.064 | 0.00 | 0.0 | TERRAPLEN | 0.021 | 0.00 | 0.0 |
| | REV EXT TERR | 0.589 | 0.00 | 0.0 | EXC ESCALONADO | 0.006 | 0.00 | 0.0 |
| | TERR ESCALONADO | 0.006 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 3.447 | 58.54 | 58.5 | ADECUADO COR | 8.840 | 164.12 | 164.1 |
| | SUELO EST 3 | 4.970 | 94.49 | 94.5 | TERRAPLEN | 0.026 | 1.13 | 1.1 |
| | REV EXT TERR | 0.718 | 9.20 | 9.2 | EXC ESCALONADO | 0.006 | 0.11 | 0.1 |
| | TERR ESCALONADO | 0.006 | 0.11 | 0.1 | | | | |
| 40.000 | SANEADO | 0.000 | 11.29 | 11.3 | D TIERRA | 8.376 | 88.01 | 146.6 |
| | ADECUADO COR | 10.418 | 173.04 | 337.2 | SUELO EST 3 | 6.076 | 97.75 | 192.2 |
| | VEGETAL | 0.000 | 0.94 | 0.9 | TERRAPLEN | 0.012 | 5.47 | 6.6 |
| | REV EXT TERR | 0.382 | 13.54 | 22.7 | EXC ESCALONADO | 0.004 | 0.06 | 0.2 |
| | TERR ESCALONADO | 0.004 | 0.06 | 0.2 | | | | |
| 60.000 | D TIERRA | 6.892 | 97.00 | 243.6 | ADECUADO COR | 10.343 | 167.65 | 504.8 |
| | SUELO EST 3 | 5.858 | 96.37 | 288.6 | VEGETAL | 0.916 | 2.07 | 3.0 |
| | TERRAPLEN | 0.923 | 1.11 | 7.7 | REV EXT TERR | 0.885 | 9.58 | 32.3 |
| | EXC ESCALONADO | 0.357 | 0.56 | 0.7 | TERR ESCALONADO | 0.357 | 0.56 | 0.7 |
| 80.000 | D TIERRA | 1.586 | 47.66 | 291.2 | ADECUADO COR | 8.222 | 164.97 | 669.8 |
| | SUELO EST 3 | 4.604 | 92.47 | 381.1 | VEGETAL | 3.046 | 44.01 | 47.0 |
| | TERRAPLEN | 9.355 | 149.44 | 157.1 | REV EXT TERR | 1.013 | 19.97 | 52.3 |
| | EXC ESCALONADO | 1.032 | 15.63 | 16.3 | TERR ESCALONADO | 1.032 | 15.63 | 16.3 |
| 100.000 | D TIERRA | 4.596 | 57.23 | 348.4 | ADECUADO COR | 7.340 | 165.78 | 835.6 |
| | SUELO EST 3 | 4.238 | 94.78 | 475.9 | VEGETAL | 0.000 | 19.44 | 66.5 |
| | TERRAPLEN | 0.000 | 41.98 | 199.1 | REV EXT TERR | 0.323 | 10.77 | 63.0 |
| | EXC ESCALONADO | 0.000 | 5.18 | 21.5 | TERR ESCALONADO | 0.000 | 5.18 | 21.5 |
| 120.000 | D TIERRA | 0.000 | 9.59 | 358.0 | ADECUADO COR | 8.027 | 165.72 | 1001.3 |
| | SUELO EST 3 | 4.456 | 92.85 | 568.7 | TERRAPLEN | 16.270 | 183.52 | 382.6 |
| | REV EXT TERR | 1.385 | 18.93 | 82.0 | EXC ESCALONADO | 0.085 | 6.44 | 28.0 |
| | TERR ESCALONADO | 0.085 | 6.44 | 28.0 | | | | |
| 140.000 | ADECUADO COR | 8.027 | 160.54 | 1161.8 | SUELO EST 3 | 4.456 | 89.13 | 657.8 |
| | TERRAPLEN | 18.810 | 350.24 | 732.9 | REV EXT TERR | 1.496 | 29.25 | 111.2 |
| | EXC ESCALONADO | 0.059 | 0.58 | 28.5 | TERR ESCALONADO | 0.059 | 0.58 | 28.5 |
| 160.000 | D TIERRA | 1.391 | 1.04 | 359.1 | ADECUADO COR | 8.436 | 161.17 | 1323.0 |
| | SUELO EST 3 | 4.702 | 89.50 | 747.3 | VEGETAL | 0.767 | 14.76 | 81.2 |
| | TERRAPLEN | 3.896 | 321.43 | 1054.3 | REV EXT TERR | 1.056 | 26.95 | 138.2 |
| | EXC ESCALONADO | 0.557 | 8.10 | 36.6 | TERR ESCALONADO | 0.557 | 8.10 | 36.6 |
| 163.363 | D TIERRA | 4.740 | 7.97 | 367.0 | ADECUADO COR | 8.798 | 29.47 | 1352.5 |
| | SUELO EST 3 | 5.064 | 16.57 | 763.9 | VEGETAL | 0.000 | 1.27 | 82.5 |
| | TERRAPLEN | 0.021 | 4.06 | 1058.4 | REV EXT TERR | 0.589 | 2.76 | 140.9 |
| | EXC ESCALONADO | 0.006 | 0.65 | 37.3 | TERR ESCALONADO | 0.006 | 0.65 | 37.3 |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 22 : E3 GLORIETA 1 (22.vol1)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEADO | 11.3 |
| D TIERRA | 367.0 |
| ADECUADO COR | 1352.5 |
| SUELO EST 3 | 763.9 |
| VEGETAL | 82.5 |
| TERRAPLEN | 1058.4 |
| REV EXT TERR | 140.9 |
| EXC ESCALONADO | 37.3 |
| TERR ESCALONADO | 37.3 |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 24 : E3 RAMAL 4 (24_V1.vol1)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 18.050 | SANEADO | 0.106 | 0.00 | 0.0 | D TIERRA | 9.049 | 0.00 | 0.0 |
| | ADECUADO COR | 6.865 | 0.00 | 0.0 | SUELO EST 3 | 3.945 | 0.00 | 0.0 |
| | VEGETAL | 0.083 | 0.00 | 0.0 | REV EXT TERR | 0.525 | 0.00 | 0.0 |
| 20.000 | SANEADO | 0.091 | 0.19 | 0.2 | D TIERRA | 9.762 | 18.34 | 18.3 |
| | ADECUADO COR | 6.806 | 13.33 | 13.3 | SUELO EST 3 | 3.935 | 7.68 | 7.7 |
| | VEGETAL | 0.094 | 0.17 | 0.2 | REV EXT TERR | 0.480 | 0.98 | 1.0 |
| 40.000 | SANEADO | 0.000 | 0.32 | 0.5 | D TIERRA | 17.685 | 275.88 | 294.2 |
| | REVEST DESMON | 0.000 | 0.09 | 0.1 | ADECUADO COR | 5.800 | 123.13 | 136.5 |
| | SUELO EST 3 | 3.476 | 72.31 | 80.0 | VEGETAL | 0.059 | 0.69 | 0.9 |
| | TERRAPLEN | 0.000 | 0.02 | 0.0 | REV EXT TERR | 0.020 | 4.59 | 5.6 |
| 60.000 | D TIERRA | 20.996 | 390.68 | 684.9 | REVEST DESMON | 0.083 | 0.62 | 0.7 |
| | ADECUADO COR | 5.411 | 111.14 | 247.6 | SUELO EST 3 | 3.243 | 66.60 | 146.6 |
| | VEGETAL | 0.216 | 2.08 | 2.9 | REV EXT TERR | 0.000 | 0.12 | 5.7 |
| 80.000 | D TIERRA | 17.768 | 401.46 | 1086.4 | REVEST DESMON | 0.173 | 2.88 | 3.6 |
| | ADECUADO COR | 5.236 | 107.35 | 355.0 | SUELO EST 3 | 3.142 | 64.35 | 210.9 |
| | VEGETAL | 0.382 | 4.84 | 7.8 | TERRAPLEN | 0.114 | 0.57 | 0.6 |
| 100.000 | SANEADO | 0.727 | 7.19 | 7.7 | D TIERRA | 11.963 | 290.03 | 1376.4 |
| | REVEST DESMON | 0.000 | 2.29 | 5.9 | ADECUADO COR | 6.741 | 122.49 | 477.4 |
| | SUELO EST 3 | 3.844 | 70.48 | 281.4 | VEGETAL | 0.999 | 14.24 | 22.0 |
| | TERRAPLEN | 6.501 | 58.47 | 59.1 | REV EXT TERR | 1.190 | 15.48 | 21.2 |
| | EXC ESCALONADO | 1.931 | 20.69 | 20.7 | TERR ESCALONADO | 1.931 | 20.69 | 20.7 |
| 120.000 | SANEADO | 2.393 | 27.91 | 35.6 | REVES CUNETA | 0.000 | 0.56 | 0.6 |
| | D TIERRA | 8.462 | 201.80 | 1578.2 | REVEST DESMON | 0.000 | 0.05 | 5.9 |
| | ADECUADO COR | 7.085 | 137.56 | 615.0 | SUELO EST 3 | 4.052 | 78.38 | 359.8 |
| | VEGETAL | 1.329 | 23.91 | 45.9 | TERRAPLEN | 16.029 | 209.02 | 268.1 |
| | REV EXT TERR | 1.702 | 28.54 | 49.7 | EXC ESCALONADO | 3.193 | 49.50 | 70.2 |
| | TERR ESCALONADO | 3.193 | 49.50 | 70.2 | | | | |
| 140.000 | SANEADO | 2.657 | 55.99 | 91.6 | D TIERRA | 5.985 | 133.68 | 1711.9 |
| | ADECUADO COR | 7.208 | 143.87 | 758.9 | SUELO EST 3 | 4.127 | 82.29 | 442.1 |
| | VEGETAL | 1.475 | 30.18 | 76.1 | TERRAPLEN | 28.939 | 459.69 | 727.8 |
| | REV EXT TERR | 2.239 | 40.27 | 90.0 | EXC ESCALONADO | 4.438 | 79.85 | 150.0 |
| | TERR ESCALONADO | 4.438 | 79.85 | 150.0 | | | | |
| 160.000 | SANEADO | 0.812 | 43.18 | 134.8 | D TIERRA | 7.730 | 132.58 | 1844.5 |
| | ADECUADO COR | 7.224 | 146.54 | 905.4 | SUELO EST 3 | 4.135 | 82.98 | 525.1 |
| | VEGETAL | 1.799 | 32.91 | 109.0 | TERRAPLEN | 17.623 | 510.25 | 1238.0 |
| | REV EXT TERR | 2.522 | 49.01 | 139.0 | EXC ESCALONADO | 4.057 | 94.56 | 244.6 |
| | TERR ESCALONADO | 4.057 | 94.56 | 244.6 | | | | |
| 172.175 | SANEADO | 0.000 | 3.99 | 138.8 | D TIERRA | 9.571 | 102.72 | 1947.2 |
| | ADECUADO COR | 7.183 | 84.23 | 989.6 | SUELO EST 3 | 4.121 | 48.20 | 573.3 |
| | VEGETAL | 0.332 | 13.64 | 122.7 | TERRAPLEN | 0.338 | 89.98 | 1328.0 |
| | REV EXT TERR | 1.079 | 25.95 | 164.9 | EXC ESCALONADO | 0.530 | 36.43 | 281.0 |
| | TERR ESCALONADO | 0.530 | 36.43 | 281.0 | | | | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 24 : E3 RAMAL 4 (24_V1.vol1)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEADO | 138.8 |
| REVES CUNETA | 0.6 |
| D TIERRA | 1947.2 |
| REVEST DESMON | 5.9 |
| ADECUADO COR | 989.6 |
| SUELO EST 3 | 573.3 |
| VEGETAL | 122.7 |
| TERRAPLEN | 1328.0 |
| REV EXT TERR | 164.9 |
| EXC ESCALONADO | 281.0 |
| TERR ESCALONADO | 281.0 |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 25 : E3 RAMAL 3 (25_V1.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 43.762 | D TIERRA | 9.096 | 0.00 | 0.0 | ADECUADO COR | 5.727 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.250 | 0.00 | 0.0 | VEGETAL | 1.619 | 0.00 | 0.0 |
| | TERRAPLEN | 8.617 | 0.00 | 0.0 | REV EXT TERR | 2.275 | 0.00 | 0.0 |
| | EXC ESCALONADO | 3.341 | 0.00 | 0.0 | TERR ESCALONADO | 3.341 | 0.00 | 0.0 |
| 60.000 | D TIERRA | 7.079 | 129.72 | 129.7 | ADECUADO COR | 5.999 | 97.40 | 97.4 |
| | SUELO EST 3 | 3.405 | 55.33 | 55.3 | VEGETAL | 2.380 | 33.99 | 34.0 |
| | TERRAPLEN | 20.557 | 253.50 | 253.5 | REV EXT TERR | 2.554 | 41.08 | 41.1 |
| | EXC ESCALONADO | 3.775 | 60.12 | 60.1 | TERR ESCALONADO | 3.775 | 60.12 | 60.1 |
| 80.000 | D TIERRA | 7.060 | 136.16 | 265.9 | ADECUADO COR | 6.022 | 121.06 | 218.5 |
| | SUELO EST 3 | 3.414 | 68.56 | 123.9 | VEGETAL | 2.393 | 47.32 | 81.3 |
| | TERRAPLEN | 17.908 | 393.70 | 647.2 | REV EXT TERR | 2.496 | 50.67 | 91.7 |
| | EXC ESCALONADO | 3.630 | 73.65 | 133.8 | TERR ESCALONADO | 3.630 | 73.65 | 133.8 |
| 100.000 | D TIERRA | 9.294 | 160.91 | 426.8 | ADECUADO COR | 5.810 | 118.49 | 337.0 |
| | SUELO EST 3 | 3.298 | 67.23 | 191.1 | VEGETAL | 1.756 | 40.37 | 121.7 |
| | TERRAPLEN | 11.183 | 316.63 | 963.8 | REV EXT TERR | 2.209 | 47.34 | 139.1 |
| | EXC ESCALONADO | 3.154 | 69.54 | 203.3 | TERR ESCALONADO | 3.154 | 69.54 | 203.3 |
| 120.000 | D TIERRA | 13.997 | 234.58 | 661.4 | REVEST DESMON | 0.060 | 0.33 | 0.3 |
| | ADECUADO COR | 5.616 | 115.93 | 452.9 | SUELO EST 3 | 3.191 | 65.89 | 257.0 |
| | VEGETAL | 1.203 | 29.02 | 150.7 | TERRAPLEN | 2.505 | 124.55 | 1088.4 |
| | REV EXT TERR | 1.498 | 36.93 | 176.0 | EXC ESCALONADO | 1.904 | 51.44 | 254.8 |
| | TERR ESCALONADO | 1.904 | 51.44 | 254.8 | | | | |
| 140.000 | D TIERRA | 17.692 | 317.11 | 978.5 | REVEST DESMON | 0.113 | 1.98 | 2.3 |
| | ADECUADO COR | 5.590 | 112.06 | 564.9 | SUELO EST 3 | 3.183 | 63.74 | 320.8 |
| | VEGETAL | 1.048 | 22.06 | 172.8 | TERRAPLEN | 0.933 | 31.50 | 1119.9 |
| | REV EXT TERR | 1.098 | 26.08 | 202.1 | EXC ESCALONADO | 1.091 | 30.79 | 285.5 |
| | TERR ESCALONADO | 1.091 | 30.79 | 285.5 | | | | |
| 160.000 | D TIERRA | 20.556 | 384.49 | 1363.0 | REVEST DESMON | 0.289 | 3.72 | 6.0 |
| | ADECUADO COR | 5.565 | 111.54 | 676.5 | SUELO EST 3 | 3.175 | 63.58 | 384.3 |
| | VEGETAL | 1.171 | 20.97 | 193.7 | TERRAPLEN | 1.194 | 17.48 | 1137.4 |
| | REV EXT TERR | 1.020 | 20.00 | 222.1 | EXC ESCALONADO | 1.172 | 19.84 | 305.4 |
| | TERR ESCALONADO | 1.172 | 19.84 | 305.4 | | | | |
| 180.000 | D TIERRA | 17.563 | 377.91 | 1740.9 | REVEST DESMON | 0.205 | 5.76 | 11.8 |
| | ADECUADO COR | 6.119 | 116.73 | 793.2 | SUELO EST 3 | 3.500 | 66.69 | 451.0 |
| | VEGETAL | 1.391 | 26.44 | 220.2 | TERRAPLEN | 3.120 | 45.61 | 1183.0 |
| | REV EXT TERR | 0.843 | 17.38 | 239.5 | EXC ESCALONADO | 0.761 | 18.17 | 323.6 |
| | TERR ESCALONADO | 0.761 | 18.17 | 323.6 | | | | |
| 200.000 | D TIERRA | 13.057 | 325.39 | 2066.3 | REVEST DESMON | 0.000 | 2.29 | 14.1 |
| | ADECUADO COR | 6.882 | 128.88 | 922.1 | SUELO EST 3 | 3.883 | 73.57 | 524.6 |
| | VEGETAL | 0.541 | 15.76 | 235.9 | TERRAPLEN | 0.110 | 15.17 | 1198.1 |
| | REV EXT TERR | 0.636 | 12.39 | 251.9 | EXC ESCALONADO | 0.000 | 5.01 | 328.6 |
| | TERR ESCALONADO | 0.000 | 5.01 | 328.6 | | | | |
| 206.812 | D TIERRA | 8.378 | 73.01 | 2139.3 | ADECUADO COR | 6.975 | 47.20 | 969.3 |
| | SUELO EST 3 | 3.882 | 26.45 | 551.0 | VEGETAL | 0.880 | 4.84 | 240.8 |
| | TERRAPLEN | 0.820 | 3.17 | 1201.3 | REV EXT TERR | 0.865 | 5.11 | 257.0 |
| | EXC ESCALONADO | 0.357 | 1.22 | 329.8 | TERR ESCALONADO | 0.357 | 1.22 | 329.8 |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 25 : E3 RAMAL 3 (25_V1.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 2139.3 |
| REVEST DESMON | 14.1 |
| ADECUADO COR | 969.3 |
| SUELO EST 3 | 551.0 |
| VEGETAL | 240.8 |
| TERRAPLEN | 1201.3 |
| REV EXT TERR | 257.0 |
| EXC ESCALONADO | 329.8 |
| TERR ESCALONADO | 329.8 |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 26 : E3 VIAL 2 N-260 (26.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 15.403 | 0.00 | 0.0 | ADECUADO COR | 5.999 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.599 | 0.00 | 0.0 | VEGETAL | 0.053 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 16.182 | 312.68 | 312.7 | ADECUADO COR | 6.440 | 123.78 | 123.8 |
| | SUELO EST 3 | 3.864 | 74.27 | 74.3 | VEGETAL | 0.132 | 2.47 | 2.5 |
| | TERRAPLEN | 0.009 | 0.05 | 0.0 | | | | |
| 40.000 | D TIERRA | 15.195 | 300.55 | 613.2 | ADECUADO COR | 7.071 | 122.99 | 246.8 |
| | SUELO EST 3 | 4.240 | 73.65 | 147.9 | VEGETAL | 0.294 | 2.09 | 4.6 |
| | TERRAPLEN | 0.107 | 0.18 | 0.2 | REV EXT TERR | 0.229 | 0.40 | 0.4 |
| 60.000 | SANEADO | 0.127 | 2.70 | 2.7 | D TIERRA | 10.554 | 270.86 | 884.1 |
| | ADECUADO COR | 11.311 | 175.35 | 422.1 | SUELO EST 3 | 6.424 | 102.13 | 250.1 |
| | VEGETAL | 0.928 | 8.36 | 12.9 | TERRAPLEN | 0.394 | 1.02 | 1.2 |
| | REV EXT TERR | 0.910 | 10.44 | 10.8 | EXC ESCALONADO | 0.237 | 0.34 | 0.3 |
| | TERR ESCALONADO | 0.237 | 0.34 | 0.3 | | | | |
| 71.689 | SANEADO | 0.410 | 0.24 | 2.9 | D TIERRA | 3.021 | 81.23 | 965.3 |
| | ADECUADO COR | 4.047 | 96.76 | 518.9 | SUELO EST 3 | 2.187 | 56.44 | 306.5 |
| | VEGETAL | 0.000 | 3.50 | 16.4 | TERRAPLEN | 0.000 | 5.32 | 6.6 |
| | REV EXT TERR | 0.515 | 4.47 | 15.3 | EXC ESCALONADO | 0.000 | 2.23 | 2.6 |
| | TERR ESCALONADO | 0.000 | 2.23 | 2.6 | | | | |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 26 : E3 VIAL 2 N-260 (26.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEADO | 2.9 |
| D TIERRA | 965.3 |
| ADECUADO COR | 518.9 |
| SUELO EST 3 | 306.5 |
| VEGETAL | 16.4 |
| TERRAPLEN | 6.6 |
| REV EXT TERR | 15.3 |
| EXC ESCALONADO | 2.6 |
| TERR ESCALONADO | 2.6 |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 27 : E3 VIAL 1 N-260 (PI 7.0) (27.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 1.967 | 0.00 | 0.0 | ADECUADO COR | 4.193 | 0.00 | 0.0 |
| | SUELO EST 3 | 2.205 | 0.00 | 0.0 | REV EXT TERR | 0.623 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 10.715 | 166.16 | 166.2 | ADECUADO COR | 7.883 | 166.23 | 166.2 |
| | SUELO EST 3 | 4.694 | 98.74 | 98.7 | VEGETAL | 0.000 | 1.72 | 1.7 |
| | REV EXT TERR | 0.341 | 4.13 | 4.1 | | | | |
| 40.000 | D TIERRA | 13.126 | 236.73 | 402.9 | ADECUADO COR | 6.597 | 140.45 | 306.7 |
| | SUELO EST 3 | 3.958 | 84.13 | 182.9 | REV EXT TERR | 0.047 | 3.93 | 8.1 |
| 60.000 | D TIERRA | 13.836 | 271.25 | 674.1 | REVEST DESMON | 0.003 | 0.00 | 0.0 |
| | ADECUADO COR | 6.202 | 126.74 | 433.4 | SUELO EST 3 | 3.721 | 76.05 | 258.9 |
| | REV EXT TERR | 0.000 | 0.34 | 8.4 | | | | |
| 80.000 | D TIERRA | 13.854 | 268.38 | 942.5 | REVEST DESMON | 0.000 | 0.02 | 0.0 |
| | ADECUADO COR | 6.528 | 123.18 | 556.6 | SUELO EST 3 | 3.917 | 73.91 | 332.8 |
| | REV EXT TERR | 0.025 | 0.33 | 8.7 | | | | |
| 100.000 | D TIERRA | 13.634 | 273.27 | 1215.8 | ADECUADO COR | 6.537 | 130.80 | 687.4 |
| | SUELO EST 3 | 3.922 | 78.47 | 411.3 | REV EXT TERR | 0.014 | 0.39 | 9.1 |
| 120.000 | D TIERRA | 13.625 | 272.68 | 1488.5 | ADECUADO COR | 6.553 | 130.86 | 818.3 |
| | SUELO EST 3 | 3.932 | 78.51 | 489.8 | REV EXT TERR | 0.036 | 0.55 | 9.7 |
| 140.000 | D TIERRA | 172.037 | 1064.17 | 2552.6 | REVEST DESMON | 3.262 | 16.31 | 16.3 |
| | ADECUADO COR | 5.895 | 128.04 | 946.3 | SUELO EST 3 | 3.537 | 76.83 | 566.6 |
| | VEGETAL | 0.009 | 0.05 | 1.8 | REV EXT TERR | 0.000 | 0.67 | 10.3 |
| 160.000 | D TIERRA | 13.184 | 2494.18 | 5046.8 | REVEST DESMON | 0.000 | 45.87 | 62.2 |
| | ADECUADO COR | 6.578 | 122.97 | 1069.3 | SUELO EST 3 | 3.947 | 73.78 | 640.4 |
| | VEGETAL | 0.002 | 0.06 | 1.8 | REV EXT TERR | 0.033 | 0.31 | 10.6 |
| 180.000 | SANE0 | 0.015 | 0.08 | 0.1 | D TIERRA | 13.259 | 265.82 | 5312.6 |
| | ADECUADO COR | 6.651 | 132.85 | 1202.1 | SUELO EST 3 | 3.991 | 79.71 | 720.1 |
| | VEGETAL | 0.001 | 0.02 | 1.8 | REV EXT TERR | 0.097 | 1.71 | 12.4 |
| 200.000 | SANE0 | 0.013 | 0.14 | 0.2 | D TIERRA | 13.360 | 265.56 | 5578.2 |
| | ADECUADO COR | 6.623 | 132.58 | 1334.7 | SUELO EST 3 | 3.974 | 79.55 | 799.7 |
| | VEGETAL | 0.001 | 0.01 | 1.9 | REV EXT TERR | 0.090 | 1.77 | 14.1 |
| 220.000 | SANE0 | 0.000 | 0.47 | 0.7 | D TIERRA | 13.800 | 271.88 | 5850.1 |
| | ADECUADO COR | 6.562 | 132.08 | 1466.8 | SUELO EST 3 | 3.937 | 79.24 | 878.9 |
| | VEGETAL | 0.000 | 0.04 | 1.9 | REV EXT TERR | 0.063 | 1.61 | 15.7 |
| 240.000 | SANE0 | 0.000 | 0.22 | 0.9 | D TIERRA | 13.686 | 275.96 | 6126.0 |
| | ADECUADO COR | 6.388 | 130.39 | 1597.2 | SUELO EST 3 | 3.833 | 78.23 | 957.1 |
| | VEGETAL | 0.000 | 0.02 | 1.9 | REV EXT TERR | 0.054 | 1.21 | 17.0 |
| 260.000 | SANE0 | 0.000 | 0.03 | 0.9 | D TIERRA | 11.825 | 258.31 | 6384.4 |
| | ADECUADO COR | 5.395 | 118.96 | 1716.1 | SUELO EST 3 | 3.237 | 71.37 | 1028.5 |
| | REV EXT TERR | 0.000 | 0.27 | 17.2 | | | | |
| 280.000 | D TIERRA | 13.322 | 257.72 | 6642.1 | REVEST DESMON | 0.000 | 0.03 | 62.2 |
| | ADECUADO COR | 6.142 | 116.62 | 1832.8 | SUELO EST 3 | 3.685 | 69.97 | 1098.5 |
| 300.000 | SANE0 | 1.283 | 2.09 | 3.0 | D TIERRA | 15.112 | 315.17 | 6957.2 |
| | ADECUADO COR | 8.568 | 155.86 | 1988.6 | SUELO EST 3 | 4.983 | 93.11 | 1191.6 |
| | VEGETAL | 0.110 | 0.18 | 2.1 | TERRAPLEN | 0.829 | 0.88 | 0.9 |
| | REV EXT TERR | 0.326 | 2.27 | 19.5 | EXC ESCALONADO | 0.462 | 0.70 | 0.7 |
| | TERR ESCALONADO | 0.462 | 0.70 | 0.7 | | | | |
| 306.318 | SANE0 | 0.000 | 4.06 | 7.1 | D TIERRA | 6.004 | 57.57 | 7014.8 |
| | ADECUADO COR | 3.266 | 32.24 | 2020.9 | SUELO EST 3 | 1.960 | 19.06 | 1210.7 |
| | VEGETAL | 0.000 | 0.34 | 2.4 | TERRAPLEN | 0.000 | 2.58 | 3.5 |
| | REV EXT TERR | 0.125 | 0.63 | 20.1 | EXC ESCALONADO | 0.000 | 1.06 | 1.8 |
| | TERR ESCALONADO | 0.000 | 1.06 | 1.8 | | | | |

Istram 22.08.08.03 03/11/22 12:22:08 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 27 : E3 VIAL 1 N-260 (PI 7.0) (27.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANE0 | 7.1 |
| D TIERRA | 7014.8 |
| REVEST DESMON | 62.2 |
| ADECUADO COR | 2020.9 |
| SUELO EST 3 | 1210.7 |
| VEGETAL | 2.4 |
| TERRAPLEN | 3.5 |
| REV EXT TERR | 20.1 |
| EXC ESCALONADO | 1.8 |
| TERR ESCALONADO | 1.8 |

Istram 22.08.08.03 03/11/22 12:22:09 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 28 : E3 GLORIETA 2 (28.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | SANE0 | 0.053 | 0.00 | 0.0 | D TIERRA | 12.195 | 0.00 | 0.0 |
| | ADECUADO COR | 9.776 | 0.00 | 0.0 | SUELO EST 3 | 5.733 | 0.00 | 0.0 |
| | REV EXT TERR | 0.369 | 0.00 | 0.0 | | | | |
| 20.000 | SANE0 | 0.000 | 0.02 | 0.0 | D TIERRA | 0.417 | 167.28 | 167.3 |
| | ADECUADO COR | 8.747 | 158.36 | 158.4 | SUELO EST 3 | 4.888 | 92.98 | 93.0 |
| | TERRAPLEN | 9.793 | 18.70 | 18.7 | REV EXT TERR | 1.123 | 6.22 | 6.2 |
| | EXC ESCALONADO | 0.273 | 0.62 | 0.6 | TERR ESCALONADO | 0.273 | 0.62 | 0.6 |
| 80.000 | D TIERRA | 0.000 | 6.02 | 173.3 | ADECUADO COR | 6.093 | 491.57 | 649.9 |
| | SUELO EST 3 | 3.479 | 277.37 | 370.4 | TERRAPLEN | 10.664 | 878.31 | 897.0 |
| | REV EXT TERR | 0.701 | 67.84 | 74.1 | EXC ESCALONADO | 0.032 | 3.82 | 4.4 |
| | TERR ESCALONADO | 0.032 | 3.82 | 4.4 | | | | |
| 100.000 | D TIERRA | 10.514 | 23.79 | 197.1 | ADECUADO COR | 8.187 | 163.75 | 813.7 |
| | SUELO EST 3 | 4.864 | 93.01 | 463.4 | VEGETAL | 0.000 | 9.00 | 9.0 |
| | TERRAPLEN | 0.000 | 175.36 | 1072.4 | REV EXT TERR | 0.358 | 16.84 | 90.9 |
| | EXC ESCALONADO | 0.000 | 1.73 | 6.2 | TERR ESCALONADO | 0.000 | 1.73 | 6.2 |
| 120.000 | SANE0 | 7.696 | 28.68 | 28.7 | D TIERRA | 8.804 | 219.09 | 416.2 |
| | ADECUADO COR | 8.473 | 155.11 | 968.8 | SUELO EST 3 | 4.910 | 92.56 | 555.9 |
| | VEGETAL | 0.644 | 2.39 | 11.4 | TERRAPLEN | 6.285 | 15.70 | 1088.1 |
| | REV EXT TERR | 0.459 | 4.03 | 94.9 | EXC ESCALONADO | 0.692 | 1.69 | 7.9 |
| | TERR ESCALONADO | 0.692 | 1.69 | 7.9 | | | | |
| 140.000 | SANE0 | 10.600 | 225.67 | 254.4 | D TIERRA | 23.298 | 91.89 | 508.1 |
| | REVEST DESMON | 0.315 | 2.18 | 2.2 | ADECUADO COR | 8.763 | 157.18 | 1126.0 |
| | SUELO EST 3 | 5.258 | 91.63 | 647.6 | VEGETAL | 1.477 | 27.52 | 38.9 |
| | TERRAPLEN | 6.809 | 152.86 | 1240.9 | REV EXT TERR | 0.090 | 7.62 | 102.6 |
| | EXC ESCALONADO | 0.645 | 13.57 | 21.4 | TERR ESCALONADO | 0.645 | 13.57 | 21.4 |
| 160.000 | SANE0 | 16.443 | 243.07 | 497.4 | D TIERRA | 5.458 | 211.76 | 719.8 |
| | REVEST DESMON | 0.177 | 1.02 | 3.2 | ADECUADO COR | 7.898 | 145.25 | 1271.2 |
| | SUELO EST 3 | 4.594 | 86.83 | 734.4 | VEGETAL | 1.468 | 26.07 | 65.0 |
| | TERRAPLEN | 10.387 | 67.21 | 1308.1 | REV EXT TERR | 0.295 | 1.35 | 103.9 |
| | EXC ESCALONADO | 0.563 | 5.03 | 26.5 | TERR ESCALONADO | 0.563 | 5.03 | 26.5 |
| 180.000 | SANE0 | 0.416 | 322.41 | 819.8 | D TIERRA | 8.731 | 16.95 | 736.8 |
| | REVEST DESMON | 0.000 | 0.28 | 3.5 | ADECUADO COR | 8.769 | 155.44 | 1426.7 |
| | SUELO EST 3 | 5.130 | 89.95 | 824.3 | VEGETAL | 0.000 | 27.94 | 92.9 |
| | TERRAPLEN | 0.000 | 225.12 | 1533.3 | REV EXT TERR | 0.367 | 8.23 | 112.1 |
| | EXC ESCALONADO | 0.000 | 9.41 | 35.9 | TERR ESCALONADO | 0.000 | 9.41 | 35.9 |
| 182.212 | SANE0 | 0.054 | 0.83 | 820.7 | D TIERRA | 12.194 | 23.05 | 759.8 |
| | ADECUADO COR | 9.776 | 20.36 | 1447.0 | SUELO EST 3 | 5.733 | 11.92 | 836.3 |
| | REV EXT TERR | 0.369 | 0.81 | 112.9 | | | | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 28 : E3 GLORIETA 2 (28.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANE0 | 820.7 |
| D TIERRA | 759.8 |
| REVEST DESMON | 3.5 |
| ADECUADO COR | 1447.0 |
| SUELO EST 3 | 836.3 |
| VEGETAL | 92.9 |
| TERRAPLEN | 1533.3 |
| REV EXT TERR | 112.9 |
| EXC ESCALONADO | 35.9 |
| TERR ESCALONADO | 35.9 |

Istram 22.08.08.03 03/11/22 12:22:09 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 29 : E3 VIAL 4 (29.vol)

Istram 22.08.08.03 03/11/22 12:22:09 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 29 : E3 VIAL 4 (29.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 6.055 | 0.00 | 0.0 | ADECUADO COR | 3.896 | 0.00 | 0.0 |
| | SUELO EST 3 | 2.149 | 0.00 | 0.0 | TERRAPLEN | 7.226 | 0.00 | 0.0 |
| | REV EXT TERR | 8.414 | 0.00 | 0.0 | EXC ESCALONADO | 0.910 | 0.00 | 0.0 |
| | TERR ESCALONADO | 0.910 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 9.573 | 171.93 | 171.9 | ADECUADO COR | 4.289 | 90.78 | 90.8 |
| | SUELO EST 3 | 2.573 | 51.79 | 51.8 | TERRAPLEN | 0.000 | 68.17 | 68.2 |
| | REV EXT TERR | 0.000 | 72.46 | 72.5 | EXC ESCALONADO | 0.000 | 47.43 | 47.4 |
| | TERR ESCALONADO | 0.000 | 47.43 | 47.4 | | | | |
| 40.000 | D TIERRA | 18.459 | 289.73 | 461.7 | ADECUADO COR | 6.548 | 115.10 | 205.9 |
| | SUELO EST 3 | 3.924 | 69.05 | 120.8 | | | | |
| 60.000 | D TIERRA | 0.000 | 129.80 | 591.5 | ADECUADO COR | 7.707 | 147.15 | 353.0 |
| | SUELO EST 3 | 4.260 | 82.83 | 203.7 | TERRAPLEN | 82.955 | 426.23 | 494.4 |
| | REV EXT TERR | 3.363 | 27.37 | 99.8 | EXC ESCALONADO | 0.656 | 10.04 | 57.5 |
| | TERR ESCALONADO | 0.656 | 10.04 | 57.5 | | | | |
| 80.000 | ADECUADO COR | 7.707 | 154.14 | 507.2 | SUELO EST 3 | 4.260 | 85.21 | 288.9 |
| | TERRAPLEN | 50.696 | 1390.48 | 1884.9 | REV EXT TERR | 2.123 | 57.99 | 157.8 |
| | EXC ESCALONADO | 0.985 | 11.01 | 68.5 | TERR ESCALONADO | 0.985 | 11.01 | 68.5 |
| 100.000 | ADECUADO COR | 7.724 | 154.25 | 661.4 | SUELO EST 3 | 4.273 | 85.29 | 374.2 |
| | TERRAPLEN | 20.955 | 696.12 | 2581.0 | REV EXT TERR | 1.301 | 34.02 | 191.8 |
| | EXC ESCALONADO | 0.812 | 18.81 | 87.3 | TERR ESCALONADO | 0.812 | 18.81 | 87.3 |
| 120.000 | D TIERRA | 0.572 | 48.29 | 639.8 | ADECUADO COR | 7.698 | 152.30 | 813.7 |
| | SUELO EST 3 | 4.292 | 85.53 | 459.7 | TERRAPLEN | 1.155 | 108.62 | 2689.6 |
| | REV EXT TERR | 0.619 | 14.69 | 206.5 | EXC ESCALONADO | 0.086 | 4.71 | 92.0 |
| | TERR ESCALONADO | 0.086 | 4.71 | 92.0 | | | | |
| 140.000 | D TIERRA | 4.691 | 62.00 | 701.8 | ADECUADO COR | 7.559 | 152.55 | 966.3 |
| | SUELO EST 3 | 4.309 | 86.11 | 545.8 | TERRAPLEN | 0.000 | 4.30 | 2693.9 |
| | REV EXT TERR | 0.498 | 10.98 | 217.5 | EXC ESCALONADO | 0.000 | 0.32 | 92.3 |
| | TERR ESCALONADO | 0.000 | 0.32 | 92.3 | | | | |
| 160.000 | D TIERRA | 3.409 | 86.08 | 787.8 | ADECUADO COR | 7.193 | 146.40 | 1112.7 |
| | SUELO EST 3 | 4.167 | 84.81 | 630.6 | VEGETAL | 0.106 | 0.55 | 0.5 |
| | REV EXT TERR | 0.332 | 7.80 | 225.3 | | | | |
| 180.000 | D TIERRA | 5.016 | 83.85 | 871.7 | ADECUADO COR | 6.281 | 136.27 | 1248.9 |
| | SUELO EST 3 | 3.730 | 79.56 | 710.2 | VEGETAL | 0.281 | 3.34 | 3.9 |
| | REV EXT TERR | 0.208 | 5.41 | 230.7 | | | | |
| 200.000 | D TIERRA | 13.011 | 201.78 | 1073.5 | REVEST DESMON | 0.165 | 2.40 | 2.4 |
| | ADECUADO COR | 6.972 | 136.40 | 1385.3 | SUELO EST 3 | 4.163 | 81.34 | 791.5 |
| | VEGETAL | 1.128 | 10.85 | 14.7 | REV EXT TERR | 0.116 | 2.87 | 233.6 |
| 220.000 | D TIERRA | 12.592 | 264.91 | 1338.4 | REVEST DESMON | 0.191 | 3.53 | 5.9 |
| | ADECUADO COR | 6.922 | 138.91 | 1524.2 | SUELO EST 3 | 4.133 | 82.94 | 874.5 |
| | VEGETAL | 1.375 | 24.95 | 39.7 | REV EXT TERR | 0.092 | 2.06 | 235.6 |
| 240.000 | SANEO | 0.514 | 1.29 | 1.3 | D TIERRA | 4.460 | 167.31 | 1505.7 |
| | REVEST DESMON | 0.000 | 2.39 | 8.3 | ADECUADO COR | 6.754 | 134.68 | 1658.9 |
| | SUELO EST 3 | 4.053 | 80.56 | 955.0 | VEGETAL | 3.199 | 50.13 | 89.8 |
| | TERRAPLEN | 0.038 | 0.61 | 2694.5 | REV EXT TERR | 0.104 | 1.69 | 237.3 |
| | EXC ESCALONADO | 0.007 | 0.02 | 92.3 | TERR ESCALONADO | 0.007 | 0.02 | 92.3 |
| 260.000 | SANEO | 0.164 | 6.51 | 7.8 | D TIERRA | 4.258 | 84.82 | 1590.5 |
| | ADECUADO COR | 7.261 | 141.87 | 1800.8 | SUELO EST 3 | 4.238 | 83.03 | 1038.0 |
| | VEGETAL | 3.887 | 74.29 | 164.1 | TERRAPLEN | 0.001 | 1.08 | 2695.6 |
| | REV EXT TERR | 0.368 | 5.95 | 243.3 | EXC ESCALONADO | 0.000 | 0.13 | 92.5 |
| | TERR ESCALONADO | 0.000 | 0.13 | 92.5 | | | | |
| 280.000 | SANEO | 0.164 | 3.30 | 11.1 | D TIERRA | 4.122 | 86.25 | 1676.7 |
| | ADECUADO COR | 7.256 | 145.15 | 1945.9 | SUELO EST 3 | 4.223 | 84.98 | 1123.0 |
| | VEGETAL | 3.892 | 77.66 | 241.8 | TERRAPLEN | 0.001 | 0.02 | 2695.6 |
| | REV EXT TERR | 0.372 | 7.28 | 250.6 | | | | |
| 300.000 | SANEO | 0.164 | 1.14 | 12.2 | D TIERRA | 2.074 | 65.66 | 1742.4 |
| | ADECUADO COR | 7.270 | 144.85 | 2090.8 | SUELO EST 3 | 4.199 | 83.79 | 1206.8 |
| | VEGETAL | 4.011 | 82.62 | 324.4 | TERRAPLEN | 1.591 | 15.42 | 2711.0 |
| | REV EXT TERR | 0.514 | 8.56 | 259.1 | EXC ESCALONADO | 0.025 | 0.17 | 92.6 |
| | TERR ESCALONADO | 0.025 | 0.17 | 92.6 | | | | |
| 320.000 | SANEO | 0.166 | 3.29 | 15.5 | D TIERRA | 0.096 | 17.26 | 1759.7 |
| | ADECUADO COR | 8.180 | 151.35 | 2242.1 | SUELO EST 3 | 4.611 | 86.40 | 1293.2 |
| | VEGETAL | 4.681 | 85.11 | 409.5 | TERRAPLEN | 8.159 | 85.61 | 2796.7 |
| | REV EXT TERR | 0.877 | 13.79 | 272.9 | EXC ESCALONADO | 0.038 | 0.74 | 93.4 |
| | TERR ESCALONADO | 0.038 | 0.74 | 93.4 | | | | |
| 340.000 | SANEO | 0.000 | 3.52 | 19.0 | D TIERRA | 14.633 | 31.60 | 1791.3 |
| | REVEST DESMON | 0.264 | 0.40 | 8.7 | ADECUADO COR | 10.432 | 186.90 | 2429.0 |
| | SUELO EST 3 | 6.075 | 106.27 | 1399.5 | VEGETAL | 3.462 | 105.17 | 514.7 |
| | TERRAPLEN | 8.302 | 243.10 | 3039.8 | REV EXT TERR | 0.698 | 18.25 | 291.2 |
| | EXC ESCALONADO | 0.525 | 3.65 | 97.0 | TERR ESCALONADO | 0.525 | 3.65 | 97.0 |
| 356.334 | D TIERRA | 18.708 | 581.34 | 2372.6 | REVEST DESMON | 0.742 | 4.17 | 12.9 |
| | ADECUADO COR | 3.445 | 145.51 | 2574.5 | SUELO EST 3 | 2.065 | 86.73 | 1486.2 |
| | VEGETAL | 1.279 | 12.60 | 527.3 | TERRAPLEN | 0.013 | 8.45 | 3048.2 |
| | REV EXT TERR | 0.000 | 1.50 | 292.7 | EXC ESCALONADO | 0.000 | 0.63 | 97.7 |
| | TERR ESCALONADO | 0.000 | 0.63 | 97.7 | | | | |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 19.0 |
| D TIERRA | 2372.6 |
| REVEST DESMON | 12.9 |
| ADECUADO COR | 2574.5 |
| SUELO EST 3 | 1486.2 |
| VEGETAL | 527.3 |
| TERRAPLEN | 3048.2 |
| REV EXT TERR | 292.7 |
| EXC ESCALONADO | 97.7 |
| TERR ESCALONADO | 97.7 |

Istram 22.08.08.03 03/11/22 12:22:09 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 32 : E3 RAMAL 5 (32.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | ADECUADO COR | 10.860 | 0.00 | 0.0 | SUELO EST 3 | 6.146 | 0.00 | 0.0 |
| | VEGETAL | 6.120 | 0.00 | 0.0 | TERRAPLEN | 30.430 | 0.00 | 0.0 |
| | REV EXT TERR | 1.491 | 0.00 | 0.0 | EXC ESCALONADO | 0.250 | 0.00 | 0.0 |
| | TERR ESCALONADO | 0.250 | 0.00 | 0.0 | | | | |
| 20.000 | ADECUADO COR | 10.861 | 217.21 | 217.2 | SUELO EST 3 | 6.146 | 122.91 | 122.9 |
| | VEGETAL | 0.464 | 73.46 | 73.5 | TERRAPLEN | 16.711 | 468.01 | 468.0 |
| | REV EXT TERR | 1.273 | 27.43 | 27.4 | EXC ESCALONADO | 0.173 | 4.42 | 4.4 |
| | TERR ESCALONADO | 0.173 | 4.42 | 4.4 | | | | |
| 40.000 | ADECUADO COR | 4.764 | 218.16 | 435.4 | SUELO EST 3 | 2.859 | 125.26 | 248.2 |
| | VEGETAL | 0.000 | 3.95 | 77.4 | TERRAPLEN | 7.574 | 336.24 | 804.3 |
| | REV EXT TERR | 0.000 | 19.55 | 47.0 | EXC ESCALONADO | 0.018 | 2.32 | 6.7 |
| | TERR ESCALONADO | 0.018 | 2.32 | 6.7 | | | | |
| 42.623 | ADECUADO COR | 5.275 | 6.30 | 441.7 | SUELO EST 3 | 2.805 | 3.78 | 251.9 |
| | TERRAPLEN | 7.728 | 9.86 | 814.1 | REV EXT TERR | 1.163 | 0.01 | 47.0 |
| | EXC ESCALONADO | 0.767 | 0.21 | 7.0 | TERR ESCALONADO | 0.767 | 0.21 | 7.0 |

Istram 22.08.08.03 03/11/22 12:22:09 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 32 : E3 RAMAL 5 (32.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| ADECUADO COR | 441.7 |
| SUELO EST 3 | 251.9 |
| VEGETAL | 77.4 |
| TERRAPLEN | 814.1 |
| REV EXT TERR | 47.0 |
| EXC ESCALONADO | 7.0 |
| TERR ESCALONADO | 7.0 |

Istram 22.08.08.03 03/11/22 12:22:09 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 34 : E3 VIAL 5 (34.vol)

Istram 22.08.08.03 03/11/22 12:22:09 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 39 : E3 VIAL 3 N-260 (39.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 11.436 | 0.00 | 0.0 | REVEST DESMON | 0.077 | 0.00 | 0.0 |
| | ADECUADO COR | 4.557 | 0.00 | 0.0 | SUELO EST 3 | 2.734 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 13.688 | 217.23 | 217.2 | REVEST DESMON | 0.000 | 0.15 | 0.1 |
| | ADECUADO COR | 6.276 | 104.78 | 104.8 | SUELO EST 3 | 3.734 | 60.70 | 60.7 |
| | TERRAPLEN | 0.000 | 13.83 | 13.8 | REV EXT TERR | 0.133 | 5.04 | 5.0 |
| | EXC ESCALONADO | 0.000 | 4.83 | 4.8 | TERR ESCALONADO | 0.000 | 4.83 | 4.8 |
| 40.000 | D TIERRA | 16.050 | 296.15 | 513.4 | ADECUADO COR | 6.969 | 136.09 | 240.9 |
| | SUELO EST 3 | 4.170 | 81.23 | 141.9 | REV EXT TERR | 0.106 | 2.28 | 7.3 |
| 60.000 | D TIERRA | 1.763 | 197.14 | 710.5 | ADECUADO COR | 6.906 | 142.35 | 383.2 |
| | SUELO EST 3 | 3.958 | 82.83 | 224.8 | TERRAPLEN | 2.221 | 24.56 | 38.4 |
| | REV EXT TERR | 0.449 | 7.60 | 14.9 | EXC ESCALONADO | 0.117 | 2.22 | 7.1 |
| | TERR ESCALONADO | 0.117 | 2.22 | 7.1 | | | | |
| 80.000 | D TIERRA | 5.721 | 58.02 | 768.5 | ADECUADO COR | 7.270 | 144.63 | 527.9 |
| | SUELO EST 3 | 4.291 | 83.81 | 308.6 | TERRAPLEN | 0.000 | 8.87 | 47.3 |
| | REV EXT TERR | 0.353 | 7.85 | 22.8 | EXC ESCALONADO | 0.000 | 0.57 | 7.6 |
| | TERR ESCALONADO | 0.000 | 0.57 | 7.6 | | | | |
| 100.000 | D TIERRA | 9.820 | 163.32 | 931.9 | ADECUADO COR | 6.623 | 140.94 | 668.8 |
| | SUELO EST 3 | 3.973 | 84.11 | 392.7 | REV EXT TERR | 0.129 | 5.34 | 28.1 |
| 120.000 | D TIERRA | 10.279 | 373.26 | 1305.1 | REVEST DESMON | 0.000 | 4.26 | 4.4 |
| | ADECUADO COR | 7.062 | 133.75 | 802.6 | SUELO EST 3 | 4.220 | 80.22 | 472.9 |
| | REV EXT TERR | 0.264 | 0.91 | 29.0 | | | | |
| 140.000 | D TIERRA | 9.846 | 204.25 | 1509.4 | ADECUADO COR | 6.549 | 138.21 | 940.8 |
| | SUELO EST 3 | 3.815 | 81.62 | 554.5 | REV EXT TERR | 0.211 | 4.83 | 33.8 |
| 160.000 | D TIERRA | 10.266 | 199.91 | 1709.3 | ADECUADO COR | 6.747 | 132.61 | 1073.4 |
| | SUELO EST 3 | 3.921 | 77.17 | 631.7 | REV EXT TERR | 0.226 | 4.34 | 38.2 |
| 180.000 | D TIERRA | 10.265 | 206.26 | 1915.6 | ADECUADO COR | 6.596 | 134.11 | 1207.5 |
| | SUELO EST 3 | 3.840 | 78.02 | 709.7 | REV EXT TERR | 0.214 | 4.40 | 42.6 |
| 200.000 | D TIERRA | 10.099 | 203.25 | 2118.8 | ADECUADO COR | 6.584 | 130.66 | 1338.1 |
| | SUELO EST 3 | 3.826 | 76.02 | 785.7 | REV EXT TERR | 0.222 | 4.31 | 46.9 |
| 220.000 | D TIERRA | 10.632 | 210.55 | 2329.3 | ADECUADO COR | 7.056 | 137.56 | 1475.7 |
| | SUELO EST 3 | 4.205 | 80.74 | 866.5 | REV EXT TERR | 0.264 | 4.74 | 51.6 |
| 240.000 | D TIERRA | 7.307 | 185.68 | 2515.0 | ADECUADO COR | 7.334 | 143.95 | 1619.7 |
| | SUELO EST 3 | 4.238 | 84.89 | 951.4 | REV EXT TERR | 0.446 | 6.82 | 58.5 |
| 260.000 | D TIERRA | 2.103 | 90.73 | 2605.8 | ADECUADO COR | 7.559 | 147.69 | 1767.3 |
| | SUELO EST 3 | 4.297 | 85.04 | 1036.4 | TERRAPLEN | 3.054 | 23.38 | 70.6 |
| | REV EXT TERR | 0.814 | 12.25 | 70.7 | EXC ESCALONADO | 0.020 | 0.24 | 7.9 |
| | TERR ESCALONADO | 0.020 | 0.24 | 7.9 | | | | |
| 280.000 | D TIERRA | 0.420 | 19.96 | 2625.7 | ADECUADO COR | 7.853 | 154.06 | 1921.4 |
| | SUELO EST 3 | 4.350 | 86.03 | 1122.4 | TERRAPLEN | 10.134 | 128.60 | 199.2 |
| | REV EXT TERR | 1.199 | 20.28 | 91.0 | EXC ESCALONADO | 0.029 | 0.64 | 8.5 |
| | TERR ESCALONADO | 0.029 | 0.64 | 8.5 | | | | |
| 300.000 | D TIERRA | 0.000 | 6.12 | 2631.8 | ADECUADO COR | 8.690 | 176.57 | 2098.0 |
| | SUELO EST 3 | 5.109 | 99.28 | 1221.7 | TERRAPLEN | 14.034 | 273.46 | 472.7 |
| | REV EXT TERR | 0.198 | 23.23 | 114.2 | EXC ESCALONADO | 0.083 | 0.97 | 9.5 |
| | TERR ESCALONADO | 0.083 | 0.97 | 9.5 | | | | |
| 303.327 | ADECUADO COR | 3.062 | 19.54 | 2117.5 | SUELO EST 3 | 1.838 | 11.71 | 1233.4 |
| | TERRAPLEN | 5.050 | 31.80 | 504.5 | REV EXT TERR | 0.000 | 0.05 | 114.3 |
| | EXC ESCALONADO | 0.030 | 0.19 | 9.6 | TERR ESCALONADO | 0.030 | 0.19 | 9.6 |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 34 : E3 VIAL 5 (34.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 2631.8 |
| REVEST DESMON | 4.4 |
| ADECUADO COR | 2117.5 |
| SUELO EST 3 | 1233.4 |
| TERRAPLEN | 504.5 |
| REV EXT TERR | 114.3 |
| EXC ESCALONADO | 9.6 |
| TERR ESCALONADO | 9.6 |

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 12.417 | 0.00 | 0.0 | ADECUADO COR | 6.130 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.508 | 0.00 | 0.0 | TERRAPLEN | 0.337 | 0.00 | 0.0 |
| | REV EXT TERR | 0.935 | 0.00 | 0.0 | EXC ESCALONADO | 0.761 | 0.00 | 0.0 |
| | TERR ESCALONADO | 0.761 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 13.466 | 254.04 | 254.0 | ADECUADO COR | 6.719 | 125.44 | 125.4 |
| | SUELO EST 3 | 3.861 | 71.86 | 71.9 | TERRAPLEN | 0.070 | 4.64 | 4.6 |
| | REV EXT TERR | 0.724 | 15.58 | 15.6 | EXC ESCALONADO | 0.198 | 9.22 | 9.2 |
| | TERR ESCALONADO | 0.198 | 9.22 | 9.2 | | | | |
| 40.000 | D TIERRA | 8.106 | 187.72 | 441.8 | ADECUADO COR | 6.026 | 133.29 | 258.7 |
| | SUELO EST 3 | 3.445 | 76.30 | 148.2 | VEGETAL | 0.012 | 0.12 | 0.1 |
| | TERRAPLEN | 10.255 | 233.26 | 237.9 | REV EXT TERR | 0.786 | 24.86 | 40.4 |
| | EXC ESCALONADO | 4.332 | 70.87 | 80.1 | TERR ESCALONADO | 4.332 | 70.87 | 80.1 |
| 60.000 | D TIERRA | 12.498 | 180.44 | 622.2 | ADECUADO COR | 6.471 | 123.80 | 382.5 |
| | SUELO EST 3 | 3.712 | 70.88 | 219.0 | VEGETAL | 0.000 | 0.06 | 0.2 |
| | TERRAPLEN | 1.660 | 332.17 | 570.1 | REV EXT TERR | 1.437 | 31.03 | 71.5 |
| | EXC ESCALONADO | 1.612 | 72.54 | 152.6 | TERR ESCALONADO | 1.612 | 72.54 | 152.6 |
| 80.000 | D TIERRA | 15.069 | 283.80 | 906.0 | ADECUADO COR | 6.420 | 127.66 | 510.2 |
| | SUELO EST 3 | 3.852 | 75.79 | 294.8 | TERRAPLEN | 0.000 | 7.88 | 577.9 |
| | REV EXT TERR | 0.000 | 6.82 | 78.3 | EXC ESCALONADO | 0.000 | 7.65 | 160.3 |
| | TERR ESCALONADO | 0.000 | 7.65 | 160.3 | | | | |
| 100.000 | D TIERRA | 16.566 | 314.93 | 1220.9 | REVEST DESMON | 0.060 | 0.56 | 0.6 |
| | ADECUADO COR | 6.804 | 132.84 | 643.0 | SUELO EST 3 | 4.082 | 79.70 | 374.5 |
| | REV EXT TERR | 0.037 | 0.41 | 78.7 | | | | |
| 120.000 | D TIERRA | 32.042 | 395.75 | 1616.7 | REVEST DESMON | 0.449 | 2.85 | 3.4 |
| | ADECUADO COR | 6.945 | 136.80 | 779.8 | SUELO EST 3 | 4.164 | 82.07 | 456.6 |
| | REV EXT TERR | 0.000 | 0.56 | 79.3 | | | | |
| 140.000 | D TIERRA | 18.615 | 595.16 | 2211.8 | REVEST DESMON | 0.053 | 7.71 | 11.1 |
| | ADECUADO COR | 6.945 | 138.90 | 918.7 | SUELO EST 3 | 4.165 | 83.29 | 539.9 |
| 160.000 | D TIERRA | 15.637 | 331.71 | 2543.6 | REVEST DESMON | 0.011 | 0.30 | 11.4 |
| | ADECUADO COR | 6.738 | 136.19 | 1054.9 | SUELO EST 3 | 4.043 | 81.70 | 621.6 |
| | REV EXT TERR | 0.001 | 0.25 | 79.5 | | | | |
| 180.000 | D TIERRA | 14.284 | 303.60 | 2847.2 | REVEST DESMON | 0.000 | 0.05 | 11.5 |
| | ADECUADO COR | 7.312 | 138.03 | 1193.0 | SUELO EST 3 | 4.216 | 81.96 | 703.6 |
| | REV EXT TERR | 0.369 | 2.25 | 81.8 | | | | |
| 200.000 | D TIERRA | 15.423 | 296.91 | 3144.1 | ADECUADO COR | 7.197 | 146.04 | 1339.0 |
| | SUELO EST 3 | 4.239 | 84.52 | 788.1 | REV EXT TERR | 0.239 | 6.86 | 88.6 |
| 220.000 | D TIERRA | 16.052 | 315.22 | 3459.3 | ADECUADO COR | 7.220 | 138.93 | 1477.9 |
| | SUELO EST 3 | 4.256 | 82.88 | 871.0 | REV EXT TERR | 0.256 | 2.26 | 90.9 |
| 240.000 | D TIERRA | 15.537 | 314.11 | 3773.4 | ADECUADO COR | 7.386 | 146.95 | 1624.9 |
| | SUELO EST 3 | 4.256 | 85.12 | 956.1 | REV EXT TERR | 0.364 | 6.88 | 97.8 |
| 260.000 | D TIERRA | 16.071 | 315.78 | 4089.2 | REVEST DESMON | 0.025 | 0.21 | 11.7 |
| | ADECUADO COR | 7.380 | 147.69 | 1772.6 | SUELO EST 3 | 4.256 | 85.13 | 1041.2 |
| | REV EXT TERR | 0.367 | 7.30 | 105.1 | | | | |
| 280.000 | D TIERRA | 16.747 | 329.24 | 4418.4 | REVEST DESMON | 0.029 | 0.59 | 12.3 |
| | ADECUADO COR | 7.314 | 146.99 | 1919.6 | SUELO EST 3 | 4.256 | 85.13 | 1126.3 |
| | REV EXT TERR | 0.313 | 6.83 | 111.9 | | | | |
| 300.000 | D TIERRA | 15.509 | 329.38 | 4747.8 | REVEST DESMON | 0.039 | 0.66 | 12.9 |
| | ADECUADO COR | 5.979 | 139.57 | 2059.1 | SUELO EST 3 | 3.587 | 81.78 | 1208.1 |
| | REV EXT TERR | 0.000 | 4.58 | 116.5 | | | | |
| 320.000 | D TIERRA | 15.090 | 306.44 | 5054.2 | REVEST DESMON | 0.023 | 0.63 | 13.6 |
| | ADECUADO COR | 6.224 | 121.96 | 2181.1 | SUELO EST 3 | 3.735 | 73.18 | 1281.3 |
| 340.000 | D TIERRA | 13.772 | 283.64 | 5337.9 | REVEST DESMON | 0.000 | 0.18 | 13.7 |
| | ADECUADO COR | 5.898 | 119.89 | 2301.0 | SUELO EST 3 | 3.539 | 71.94 | 1353.2 |
| 360.000 | D TIERRA | 17.739 | 314.72 | 5652.6 | ADECUADO COR | 11.253 | 155.15 | 2456.1 |
| | SUELO EST 3 | 6.443 | 91.18 | 1444.4 | TERRAPLEN | 0.913 | 1.83 | 579.8 |
| | REV EXT TERR | 0.781 | 6.85 | 123.3 | EXC ESCALONADO | 0.222 | 0.73 | 161.0 |
| | TERR ESCALONADO | 0.222 | 0.73 | 161.0 | | | | |
| 370.957 | D TIERRA | 6.004 | 140.97 | 5793.6 | ADECUADO COR | 3.264 | 84.33 | 2540.5 |
| | SUELO EST 3 | 1.958 | 49.73 | 1494.1 | TERRAPLEN | 0.000 | 1.23 | 581.0 |
| | REV EXT TERR | 0.124 | 2.00 | 125.3 | EXC ESCALONADO | 0.000 | 0.36 | 161.4 |
| | TERR ESCALONADO | 0.000 | 0.36 | 161.4 | | | | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 39 : E3 VIAL 3 N-260 (39.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 5793.6 |
| REVEST DESMON | 13.7 |
| ADECUADO COR | 2540.5 |
| SUELO EST 3 | 1494.1 |
| VEGETAL | 0.2 |
| TERRAPLEN | 581.0 |
| REV EXT TERR | 125.3 |
| EXC ESCALONADO | 161.4 |
| TERR ESCALONADO | 161.4 |

Istram 22.08.08.03 03/11/22 12:22:10 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 43 : E3 RAMAL 2 (43.vol)

Istram 22.08.08.03 03/11/22 12:22:10 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 44 : E3 RAMAL 1 (44.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | ADECUADO COR | 6.997 | 0.00 | 0.0 | SUELO EST 3 | 3.838 | 0.00 | 0.0 |
| | VEGETAL | 4.413 | 0.00 | 0.0 | TERRAPLEN | 21.559 | 0.00 | 0.0 |
| | REV EXT TERR | 1.534 | 0.00 | 0.0 | EXC ESCALONADO | 0.002 | 0.00 | 0.0 |
| | TERR ESCALONADO | 0.002 | 0.00 | 0.0 | | | | |
| 20.000 | ADECUADO COR | 5.165 | 103.30 | 103.3 | SUELO EST 3 | 2.914 | 58.27 | 58.3 |
| | VEGETAL | 3.121 | 59.71 | 59.7 | TERRAPLEN | 20.141 | 346.58 | 346.6 |
| | REV EXT TERR | 0.909 | 16.49 | 16.5 | EXC ESCALONADO | 0.077 | 0.73 | 0.7 |
| | TERR ESCALONADO | 0.077 | 0.73 | 0.7 | | | | |
| 40.000 | ADECUADO COR | 5.150 | 103.25 | 206.6 | SUELO EST 3 | 2.907 | 58.25 | 116.5 |
| | VEGETAL | 3.335 | 64.62 | 124.3 | TERRAPLEN | 25.808 | 455.53 | 802.1 |
| | REV EXT TERR | 1.072 | 19.64 | 36.1 | EXC ESCALONADO | 0.075 | 1.39 | 2.1 |
| | TERR ESCALONADO | 0.075 | 1.39 | 2.1 | | | | |
| 60.000 | ADECUADO COR | 5.224 | 103.29 | 309.8 | SUELO EST 3 | 2.958 | 58.37 | 174.9 |
| | VEGETAL | 3.582 | 69.23 | 193.6 | TERRAPLEN | 34.943 | 600.79 | 1402.9 |
| | REV EXT TERR | 1.247 | 23.50 | 59.6 | EXC ESCALONADO | 0.068 | 1.23 | 3.3 |
| | TERR ESCALONADO | 0.068 | 1.23 | 3.3 | | | | |
| 80.000 | ADECUADO COR | 5.539 | 106.74 | 416.6 | SUELO EST 3 | 3.155 | 60.59 | 235.5 |
| | VEGETAL | 4.026 | 75.33 | 268.9 | TERRAPLEN | 45.955 | 794.38 | 2197.3 |
| | REV EXT TERR | 1.492 | 27.10 | 86.7 | EXC ESCALONADO | 0.079 | 2.51 | 5.8 |
| | TERR ESCALONADO | 0.079 | 2.51 | 5.8 | | | | |
| 100.000 | ADECUADO COR | 6.855 | 124.19 | 540.8 | SUELO EST 3 | 3.829 | 70.98 | 306.5 |
| | VEGETAL | 5.047 | 91.02 | 359.9 | TERRAPLEN | 69.926 | 1153.59 | 3350.9 |
| | REV EXT TERR | 2.067 | 34.31 | 121.0 | EXC ESCALONADO | 0.023 | 0.62 | 6.5 |
| | TERR ESCALONADO | 0.023 | 0.62 | 6.5 | | | | |
| 120.000 | ADECUADO COR | 6.992 | 139.55 | 680.3 | SUELO EST 3 | 3.832 | 76.59 | 383.0 |
| | VEGETAL | 5.944 | 109.92 | 469.8 | TERRAPLEN | 95.279 | 1650.05 | 5000.9 |
| | REV EXT TERR | 2.930 | 49.98 | 171.0 | EXC ESCALONADO | 0.072 | 0.94 | 7.4 |
| | TERR ESCALONADO | 0.072 | 0.94 | 7.4 | | | | |
| 140.000 | ADECUADO COR | 6.998 | 139.99 | 820.3 | SUELO EST 3 | 3.839 | 76.76 | 459.8 |
| | VEGETAL | 7.069 | 129.61 | 599.4 | TERRAPLEN | 125.353 | 2201.19 | 7202.1 |
| | REV EXT TERR | 4.014 | 68.95 | 240.0 | EXC ESCALONADO | 0.054 | 1.46 | 8.9 |
| | TERR ESCALONADO | 0.054 | 1.46 | 8.9 | | | | |
| 160.000 | ADECUADO COR | 6.995 | 139.92 | 960.2 | SUELO EST 3 | 3.837 | 76.75 | 536.6 |
| | VEGETAL | 8.221 | 155.17 | 754.6 | TERRAPLEN | 155.017 | 2816.81 | 10018.9 |
| | REV EXT TERR | 5.195 | 94.11 | 334.1 | EXC ESCALONADO | 0.040 | 0.88 | 9.7 |
| | TERR ESCALONADO | 0.040 | 0.88 | 9.7 | | | | |
| 180.000 | ADECUADO COR | 7.001 | 139.96 | 1100.2 | SUELO EST 3 | 3.840 | 76.76 | 613.3 |
| | VEGETAL | 8.663 | 169.17 | 923.8 | TERRAPLEN | 175.537 | 3319.04 | 13338.0 |
| | REV EXT TERR | 5.621 | 108.48 | 442.6 | EXC ESCALONADO | 0.037 | 0.79 | 10.5 |
| | TERR ESCALONADO | 0.037 | 0.79 | 10.5 | | | | |
| 200.000 | ADECUADO COR | 6.994 | 139.99 | 1240.2 | SUELO EST 3 | 3.834 | 76.76 | 690.1 |
| | VEGETAL | 8.876 | 175.60 | 1099.4 | TERRAPLEN | 185.969 | 3623.59 | 16961.5 |
| | REV EXT TERR | 5.823 | 114.64 | 557.2 | EXC ESCALONADO | 0.044 | 0.80 | 11.3 |
| | TERR ESCALONADO | 0.044 | 0.80 | 11.3 | | | | |
| 220.000 | ADECUADO COR | 6.989 | 139.79 | 1380.0 | SUELO EST 3 | 3.830 | 76.60 | 766.7 |
| | VEGETAL | 8.392 | 176.55 | 1275.9 | TERRAPLEN | 187.308 | 3762.58 | 20724.1 |
| | REV EXT TERR | 5.282 | 115.04 | 672.2 | EXC ESCALONADO | 0.018 | 0.65 | 12.0 |
| | TERR ESCALONADO | 0.018 | 0.65 | 12.0 | | | | |
| 240.000 | ADECUADO COR | 7.003 | 139.91 | 1519.9 | SUELO EST 3 | 3.841 | 76.69 | 843.4 |
| | VEGETAL | 6.786 | 150.88 | 1426.8 | TERRAPLEN | 158.690 | 3495.93 | 24220.1 |
| | REV EXT TERR | 3.769 | 89.88 | 762.1 | EXC ESCALONADO | 0.165 | 1.66 | 13.6 |
| | TERR ESCALONADO | 0.165 | 1.66 | 13.6 | | | | |
| 260.000 | ADECUADO COR | 6.412 | 137.84 | 1657.7 | SUELO EST 3 | 3.663 | 76.44 | 919.8 |
| | VEGETAL | 4.934 | 118.17 | 1545.0 | TERRAPLEN | 117.634 | 2754.44 | 26974.5 |
| | REV EXT TERR | 2.522 | 62.34 | 824.5 | EXC ESCALONADO | 0.941 | 9.23 | 22.9 |
| | TERR ESCALONADO | 0.941 | 9.23 | 22.9 | | | | |
| 265.492 | ADECUADO COR | 5.652 | 33.57 | 1691.3 | SUELO EST 3 | 3.209 | 19.13 | 939.0 |
| | VEGETAL | 3.416 | 23.21 | 1568.2 | TERRAPLEN | 104.276 | 612.24 | 27586.7 |
| | REV EXT TERR | 3.060 | 15.35 | 839.8 | EXC ESCALONADO | 1.744 | 7.03 | 29.9 |
| | TERR ESCALONADO | 1.744 | 7.03 | 29.9 | | | | |

Istram 22.08.08.03 03/11/22 12:22:10 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 43 : E3 RAMAL 2 (43.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| ADECUADO COR | 1691.3 |
| SUELO EST 3 | 939.0 |
| VEGETAL | 1568.2 |
| TERRAPLEN | 27586.7 |
| REV EXT TERR | 839.8 |
| EXC ESCALONADO | 29.9 |
| TERR ESCALONADO | 29.9 |

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 161.122 | ADECUADO COR | 6.797 | 0.00 | 0.0 | SUELO EST 3 | 3.909 | 0.00 | 0.0 |
| | VEGETAL | 1.070 | 0.00 | 0.0 | TERRAPLEN | 27.893 | 0.00 | 0.0 |
| | REV EXT TERR | 2.601 | 0.00 | 0.0 | EXC ESCALONADO | 3.971 | 0.00 | 0.0 |
| | TERR ESCALONADO | 3.971 | 0.00 | 0.0 | | | | |
| 180.000 | ADECUADO COR | 7.526 | 137.99 | 138.0 | SUELO EST 3 | 4.156 | 77.54 | 77.5 |
| | VEGETAL | 4.741 | 50.07 | 50.1 | TERRAPLEN | 176.587 | 1723.03 | 1723.0 |
| | REV EXT TERR | 4.807 | 74.01 | 74.0 | EXC ESCALONADO | 4.543 | 96.38 | 96.4 |
| | TERR ESCALONADO | 4.543 | 96.38 | 96.4 | | | | |
| 200.000 | D TIERRA | 0.169 | 2.69 | 2.7 | ADECUADO COR | 7.528 | 150.52 | 288.5 |
| | SUELO EST 3 | 4.156 | 83.11 | 160.7 | VEGETAL | 10.740 | 162.17 | 212.2 |
| | TERRAPLEN | 250.627 | 4618.47 | 6341.5 | REV EXT TERR | 6.856 | 115.39 | 189.4 |
| | EXC ESCALONADO | 0.132 | 37.28 | 133.7 | TERR ESCALONADO | 0.132 | 37.28 | 133.7 |
| 220.000 | D TIERRA | 0.162 | 3.28 | 6.0 | ADECUADO COR | 7.524 | 150.61 | 439.1 |
| | SUELO EST 3 | 4.152 | 83.14 | 243.8 | VEGETAL | 9.773 | 205.31 | 417.6 |
| | TERRAPLEN | 197.846 | 4494.10 | 10835.6 | REV EXT TERR | 5.926 | 128.01 | 317.4 |
| | EXC ESCALONADO | 0.160 | 2.84 | 136.5 | TERR ESCALONADO | 0.160 | 2.84 | 136.5 |
| 240.000 | D TIERRA | 0.168 | 3.33 | 9.3 | ADECUADO COR | 7.518 | 150.38 | 589.5 |
| | SUELO EST 3 | 4.147 | 82.96 | 326.7 | VEGETAL | 8.402 | 183.36 | 600.9 |
| | TERRAPLEN | 146.379 | 3441.02 | 14276.6 | REV EXT TERR | 4.531 | 106.49 | 423.9 |
| | EXC ESCALONADO | 0.166 | 3.12 | 139.6 | TERR ESCALONADO | 0.166 | 3.12 | 139.6 |
| 260.000 | D TIERRA | 0.167 | 3.34 | 12.6 | ADECUADO COR | 7.518 | 150.37 | 739.9 |
| | SUELO EST 3 | 4.147 | 82.94 | 409.7 | VEGETAL | 6.625 | 149.12 | 750.0 |
| | TERRAPLEN | 96.278 | 2415.66 | 16692.3 | REV EXT TERR | 2.823 | 72.44 | 496.3 |
| | EXC ESCALONADO | 0.111 | 2.51 | 142.1 | TERR ESCALONADO | 0.111 | 2.51 | 142.1 |
| 280.000 | D TIERRA | 0.167 | 3.33 | 16.0 | ADECUADO COR | 7.384 | 150.15 | 890.0 |
| | SUELO EST 3 | 4.147 | 82.94 | 492.6 | VEGETAL | 5.304 | 118.50 | 868.5 |
| | TERRAPLEN | 57.798 | 1511.00 | 18203.3 | REV EXT TERR | 1.554 | 43.01 | 539.4 |
| | EXC ESCALONADO | 0.153 | 2.32 | 144.5 | TERR ESCALONADO | 0.153 | 2.32 | 144.5 |
| 300.000 | D TIERRA | 0.166 | 3.34 | 19.3 | ADECUADO COR | 6.234 | 137.32 | 1027.3 |
| | SUELO EST 3 | 3.548 | 78.32 | 571.0 | VEGETAL | 4.533 | 98.54 | 967.1 |
| | TERRAPLEN | 38.893 | 954.32 | 19157.6 | REV EXT TERR | 1.218 | 26.42 | 565.8 |
| | EXC ESCALONADO | 0.011 | 1.83 | 146.3 | TERR ESCALONADO | 0.011 | 1.83 | 146.3 |
| 320.000 | D TIERRA | 0.166 | 3.33 | 22.6 | ADECUADO COR | 5.688 | 117.33 | 1144.7 |
| | SUELO EST 3 | 3.228 | 66.65 | 637.6 | VEGETAL | 4.154 | 86.09 | 1053.2 |
| | TERRAPLEN | 30.023 | 678.17 | 19835.8 | REV EXT TERR | 1.093 | 23.19 | 589.0 |
| | EXC ESCALONADO | 0.008 | 0.20 | 146.5 | TERR ESCALONADO | 0.008 | 0.20 | 146.5 |
| 340.000 | D TIERRA | 0.166 | 3.33 | 26.0 | ADECUADO COR | 5.680 | 113.63 | 1258.3 |
| | SUELO EST 3 | 3.223 | 64.47 | 702.1 | VEGETAL | 3.991 | 81.47 | 1134.6 |
| | TERRAPLEN | 23.663 | 538.46 | 20374.2 | REV EXT TERR | 0.940 | 20.39 | 609.4 |
| | EXC ESCALONADO | 0.007 | 0.14 | 146.6 | TERR ESCALONADO | 0.007 | 0.14 | 146.6 |
| 360.000 | D TIERRA | 0.167 | 3.33 | 29.3 | ADECUADO COR | 5.680 | 113.60 | 1371.9 |
| | SUELO EST 3 | 3.223 | 64.45 | 766.5 | VEGETAL | 3.848 | 78.38 | 1213.0 |
| | TERRAPLEN | 18.398 | 420.02 | 20794.2 | REV EXT TERR | 0.802 | 17.42 | 626.8 |
| | EXC ESCALONADO | 0.020 | 0.17 | 146.8 | TERR ESCALONADO | 0.020 | 0.17 | 146.8 |
| 367.345 | D TIERRA | 0.000 | 1.23 | 30.5 | ADECUADO COR | 7.527 | 41.72 | 1413.6 |
| | SUELO EST 3 | 4.156 | 23.67 | 790.2 | VEGETAL | 4.688 | 28.07 | 1241.1 |
| | TERRAPLEN | 23.532 | 128.19 | 20922.4 | REV EXT TERR | 1.557 | 5.71 | 632.5 |
| | EXC ESCALONADO | 0.222 | 0.82 | 147.6 | TERR ESCALONADO | 0.222 | 0.82 | 147.6 |

Istram 22.08.08.03 03/11/22 12:22:11 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ED50 (HUSO 30)
 EJE : 44 : E3 RAMAL 1 (44.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 30.5 |
| ADECUADO COR | 1413.6 |
| SUELO EST 3 | 790.2 |
| VEGETAL | 1241.1 |
| TERRAPLEN | 20922.4 |
| REV EXT TERR | 632.5 |
| EXC ESCALONADO | 147.6 |
| TERR ESCALONADO | 147.6 |

Istram 22.08.08.03 03/11/22 12:22:11 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 45 : CAMINO MD_04 (F4-45.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 539.357 | D TIERRA | 5.443 | 0.00 | 0.0 | REVEST DESMON | 0.016 | 0.00 | 0.0 |
| | ADECUADO COR | 4.060 | 0.00 | 0.0 | VEGETAL | 2.290 | 0.00 | 0.0 |
| | TERRAPLEN | 0.231 | 0.00 | 0.0 | | | | |
| 540.000 | D TIERRA | 5.468 | 3.51 | 3.5 | REVEST DESMON | 0.018 | 0.01 | 0.0 |
| | ADECUADO COR | 4.060 | 2.61 | 2.6 | VEGETAL | 2.292 | 1.47 | 1.5 |
| | TERRAPLEN | 0.229 | 0.15 | 0.1 | | | | |
| 560.000 | D TIERRA | 4.182 | 108.42 | 111.9 | REVEST DESMON | 0.000 | 0.57 | 0.6 |
| | ADECUADO COR | 3.269 | 78.28 | 80.9 | VEGETAL | 2.091 | 45.34 | 46.8 |
| | TERRAPLEN | 0.347 | 4.65 | 4.8 | | | | |
| 570.856 | D TIERRA | 0.421 | 41.42 | 153.3 | ADECUADO COR | 0.727 | 42.87 | 123.8 |
| | VEGETAL | 0.305 | 21.60 | 68.4 | TERRAPLEN | 0.001 | 1.80 | 6.6 |
| | REV EXT TERR | 0.294 | 1.06 | 1.1 | | | | |
| | | | | | | | | |

Istram 22.08.08.03 03/11/22 12:22:11 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 45 : CAMINO MD_04 (F4-45.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|---------------|---------|
| D TIERRA | 153.3 |
| REVEST DESMON | 0.6 |
| ADECUADO COR | 123.8 |
| VEGETAL | 68.4 |
| TERRAPLEN | 6.6 |
| REV EXT TERR | 1.1 |

Istram 22.08.08.03 03/11/22 12:22:11 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 47 : CE 1.1 CD (F4-47.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 0.500 | 0.00 | 0.0 | ADECUADO COR | 0.023 | 0.00 | 0.0 |
| | REV EXT TERR | 0.107 | 0.00 | 0.0 | | | | |
| | | | | | | | | |
| 20.000 | D TIERRA | 2.301 | 30.03 | 30.0 | REVEST DESMON | 0.023 | 0.12 | 0.1 |
| | ADECUADO COR | 1.657 | 25.16 | 25.2 | VEGETAL | 1.679 | 25.43 | 25.4 |
| | TERRAPLEN | 0.042 | 0.66 | 0.7 | REV EXT TERR | 0.032 | 2.34 | 2.3 |
| 40.000 | D TIERRA | 1.858 | 42.18 | 72.2 | REVEST DESMON | 0.009 | 0.33 | 0.4 |
| | ADECUADO COR | 1.702 | 33.49 | 58.6 | VEGETAL | 1.717 | 33.88 | 59.3 |
| | TERRAPLEN | 0.043 | 0.85 | 1.5 | REV EXT TERR | 0.069 | 0.93 | 3.3 |
| 60.000 | SANEO | 0.563 | 13.67 | 13.7 | D TIERRA | 1.849 | 32.58 | 104.8 |
| | REVEST DESMON | 0.010 | 0.19 | 0.6 | ADECUADO COR | 1.673 | 33.84 | 92.5 |
| | VEGETAL | 1.591 | 31.73 | 91.0 | TERRAPLEN | 0.330 | 6.47 | 8.0 |
| 80.000 | REV EXT TERR | 0.045 | 1.21 | 4.5 | EXC ESCALONADO | 0.000 | 0.90 | 0.9 |
| | TERR ESCALONADO | 0.000 | 0.90 | 0.9 | | | | |
| | SANEO | 0.610 | 15.45 | 29.1 | D TIERRA | 1.904 | 29.81 | 134.6 |
| 100.000 | REVEST DESMON | 0.006 | 0.08 | 0.7 | ADECUADO COR | 1.673 | 32.61 | 125.1 |
| | VEGETAL | 1.583 | 30.37 | 121.4 | TERRAPLEN | 0.403 | 8.35 | 16.3 |
| | REV EXT TERR | 0.045 | 1.18 | 5.7 | | | | |
| 120.000 | SANEO | 0.000 | 47.83 | 76.9 | D TIERRA | 2.563 | 27.60 | 162.2 |
| | REVEST DESMON | 0.007 | 0.11 | 0.8 | ADECUADO COR | 1.646 | 33.40 | 158.5 |
| | VEGETAL | 1.184 | 22.86 | 144.3 | TERRAPLEN | 0.001 | 25.59 | 41.9 |
| 140.000 | REV EXT TERR | 0.022 | 0.85 | 6.5 | EXC ESCALONADO | 0.000 | 5.31 | 6.2 |
| | TERR ESCALONADO | 0.000 | 5.31 | 6.2 | | | | |
| | D TIERRA | 1.399 | 36.59 | 198.8 | REVEST DESMON | 0.000 | 0.03 | 0.9 |
| 160.000 | ADECUADO COR | 1.612 | 32.48 | 191.0 | VEGETAL | 1.568 | 28.39 | 172.7 |
| | TERRAPLEN | 0.028 | 0.34 | 42.3 | REV EXT TERR | 0.194 | 2.08 | 8.6 |
| | D TIERRA | 1.937 | 34.76 | 233.5 | ADECUADO COR | 1.508 | 31.43 | 222.4 |
| 180.000 | VEGETAL | 1.543 | 31.70 | 204.4 | TERRAPLEN | 0.043 | 0.77 | 43.0 |
| | REV EXT TERR | 0.115 | 1.99 | 10.6 | | | | |
| | D TIERRA | 0.540 | 31.35 | 264.9 | ADECUADO COR | 1.749 | 31.63 | 254.0 |
| 200.000 | VEGETAL | 1.752 | 30.64 | 235.0 | TERRAPLEN | 0.044 | 0.60 | 43.6 |
| | REV EXT TERR | 0.298 | 3.39 | 14.0 | | | | |
| | D TIERRA | 4.039 | 110.57 | 375.5 | REVEST DESMON | 0.141 | 5.89 | 6.7 |
| 220.000 | ADECUADO COR | 1.755 | 35.07 | 289.1 | VEGETAL | 2.038 | 41.90 | 276.9 |
| | TERRAPLEN | 0.107 | 1.61 | 45.3 | REV EXT TERR | 0.000 | 1.49 | 15.4 |
| | D TIERRA | 1.849 | 46.69 | 422.2 | REVEST DESMON | 0.000 | 0.61 | 7.4 |
| 240.000 | ADECUADO COR | 1.609 | 33.26 | 322.4 | VEGETAL | 1.635 | 34.67 | 311.6 |
| | TERRAPLEN | 0.043 | 1.29 | 46.5 | REV EXT TERR | 0.035 | 0.62 | 16.1 |
| | D TIERRA | 1.772 | 34.99 | 457.2 | ADECUADO COR | 1.574 | 31.53 | 353.9 |
| 260.000 | VEGETAL | 1.606 | 32.16 | 343.7 | TERRAPLEN | 0.043 | 0.86 | 47.4 |
| | REV EXT TERR | 0.036 | 0.77 | 16.8 | | | | |
| | D TIERRA | 1.482 | 30.34 | 487.5 | ADECUADO COR | 1.587 | 31.81 | 385.7 |
| 280.000 | VEGETAL | 1.615 | 32.39 | 376.1 | TERRAPLEN | 0.043 | 0.86 | 48.3 |
| | REV EXT TERR | 0.170 | 2.83 | 19.7 | | | | |
| | D TIERRA | 1.618 | 29.49 | 517.0 | ADECUADO COR | 1.570 | 31.82 | 417.5 |
| 300.000 | VEGETAL | 1.603 | 32.38 | 408.5 | TERRAPLEN | 0.043 | 0.86 | 49.1 |
| | REV EXT TERR | 0.157 | 3.46 | 23.1 | | | | |
| | D TIERRA | 1.732 | 30.70 | 547.7 | ADECUADO COR | 1.592 | 31.84 | 449.4 |
| 320.000 | VEGETAL | 1.623 | 32.44 | 440.9 | TERRAPLEN | 0.043 | 0.86 | 50.0 |
| | REV EXT TERR | 0.050 | 2.82 | 25.9 | | | | |
| | D TIERRA | 1.546 | 35.46 | 583.1 | ADECUADO COR | 1.570 | 32.25 | 481.6 |
| 340.000 | VEGETAL | 1.604 | 32.33 | 473.3 | TERRAPLEN | 0.043 | 0.74 | 50.7 |
| | REV EXT TERR | 0.152 | 1.39 | 27.3 | | | | |
| | D TIERRA | 2.444 | 77.14 | 660.3 | REVEST DESMON | 0.029 | 0.40 | 7.8 |
| 360.000 | ADECUADO COR | 1.677 | 64.83 | 546.4 | VEGETAL | 1.691 | 65.83 | 539.1 |
| | TERRAPLEN | 0.042 | 1.71 | 52.4 | REV EXT TERR | 0.045 | 3.96 | 31.3 |
| | D TIERRA | 2.874 | 49.86 | 710.1 | REVEST DESMON | 0.030 | 0.64 | 8.4 |
| 370.376 | ADECUADO COR | 1.755 | 33.35 | 579.8 | VEGETAL | 1.857 | 33.91 | 573.0 |
| | TERRAPLEN | 0.087 | 0.94 | 53.4 | REV EXT TERR | 0.000 | 0.56 | 31.9 |
| | D TIERRA | 2.176 | 26.28 | 736.4 | REVEST DESMON | 0.020 | 0.26 | 8.7 |
| | ADECUADO COR | 1.665 | 17.71 | 597.5 | VEGETAL | 1.687 | 18.34 | 591.3 |
| | TERRAPLEN | 0.042 | 0.66 | 54.0 | REV EXT TERR | 0.039 | 0.20 | 32.1 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 47 : CE 1.1 CD (F4-47.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 76.9 |
| D TIERRA | 736.4 |
| REVEST DESMON | 8.7 |
| ADECUADO COR | 597.5 |
| VEGETAL | 591.3 |
| TERRAPLEN | 54.0 |
| REV EXT TERR | 32.1 |
| EXC ESCALONADO | 6.2 |
| TERR ESCALONADO | 6.2 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 49 : CE 2.4 CD (F4-49.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 18.482 | D TIERRA | 4.855 | 0.00 | 0.0 | REVEST DESMON | 0.221 | 0.00 | 0.0 |
| | ADECUADO COR | 1.767 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 4.902 | 7.41 | 7.4 | REVEST DESMON | 0.220 | 0.33 | 0.3 |
| | ADECUADO COR | 1.767 | 2.68 | 2.7 | | | | |
| 40.000 | D TIERRA | 4.349 | 100.17 | 107.6 | REVEST DESMON | 0.245 | 4.56 | 4.9 |
| | ADECUADO COR | 1.767 | 35.34 | 38.0 | VEGETAL | 2.147 | 17.94 | 17.9 |
| | TERRAPLEN | 0.094 | 0.60 | 0.6 | | | | |
| 60.000 | D TIERRA | 4.130 | 80.03 | 187.6 | REVEST DESMON | 0.231 | 4.28 | 9.2 |
| | ADECUADO COR | 1.767 | 35.34 | 73.4 | VEGETAL | 2.134 | 42.31 | 60.2 |
| | TERRAPLEN | 0.095 | 1.88 | 2.5 | | | | |
| 65.804 | D TIERRA | 0.866 | 27.18 | 214.8 | REVEST DESMON | 0.225 | 1.48 | 10.7 |
| | ADECUADO COR | 0.267 | 11.01 | 84.4 | VEGETAL | 0.878 | 13.16 | 73.4 |
| | TERRAPLEN | 0.094 | 0.55 | 3.0 | | | | |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 49 : CE 2.4 CD (F4-49.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|---------------|---------|
| D TIERRA | 214.8 |
| REVEST DESMON | 10.7 |
| ADECUADO COR | 84.4 |
| VEGETAL | 73.4 |
| TERRAPLEN | 3.0 |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 50 : CE 2.5 CD (PI 2.4) (F4-50.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 40.000 | D TIERRA | 7.813 | 0.00 | 0.0 | REVEST DESMON | 0.263 | 0.00 | 0.0 |
| | ADECUADO COR | 4.074 | 0.00 | 0.0 | VEGETAL | 2.216 | 0.00 | 0.0 |
| | TERRAPLEN | 0.094 | 0.00 | 0.0 | | | | |
| 60.000 | D TIERRA | 7.690 | 151.97 | 152.0 | REVEST DESMON | 0.250 | 4.90 | 4.9 |
| | ADECUADO COR | 4.074 | 81.48 | 81.5 | VEGETAL | 2.203 | 43.95 | 44.0 |
| | TERRAPLEN | 0.094 | 1.88 | 1.9 | | | | |
| 80.000 | D TIERRA | 7.125 | 148.95 | 300.9 | REVEST DESMON | 0.198 | 4.55 | 9.4 |
| | ADECUADO COR | 4.074 | 81.48 | 163.0 | VEGETAL | 2.148 | 43.58 | 87.5 |
| | TERRAPLEN | 0.095 | 1.88 | 3.8 | | | | |
| 100.000 | D TIERRA | 6.114 | 132.54 | 433.5 | REVEST DESMON | 0.096 | 2.98 | 12.4 |
| | ADECUADO COR | 4.074 | 81.48 | 244.4 | VEGETAL | 2.043 | 41.95 | 129.5 |
| | TERRAPLEN | 0.171 | 2.56 | 6.3 | | | | |
| 120.000 | D TIERRA | 4.828 | 110.71 | 544.2 | REVEST DESMON | 0.007 | 0.94 | 13.4 |
| | ADECUADO COR | 3.852 | 80.37 | 324.8 | VEGETAL | 1.736 | 38.76 | 168.2 |
| | TERRAPLEN | 0.112 | 3.51 | 9.8 | REV EXT TERR | 0.004 | 0.02 | 0.0 |
| 140.000 | D TIERRA | 4.111 | 90.97 | 635.1 | REVEST DESMON | 0.000 | 0.04 | 13.4 |
| | ADECUADO COR | 3.663 | 76.69 | 401.5 | VEGETAL | 1.529 | 33.51 | 201.8 |
| | TERRAPLEN | 0.001 | 1.34 | 11.2 | REV EXT TERR | 0.039 | 0.49 | 0.5 |
| 160.000 | D TIERRA | 3.381 | 75.58 | 710.7 | ADECUADO COR | 3.992 | 76.81 | 478.3 |
| | VEGETAL | 1.666 | 32.06 | 233.8 | TERRAPLEN | 0.001 | 0.02 | 11.2 |
| | REV EXT TERR | 0.154 | 1.88 | 2.4 | | | | |
| 180.000 | SANE0 | 5.025 | 22.30 | 22.3 | D TIERRA | 0.538 | 51.84 | 762.5 |
| | ADECUADO COR | 4.025 | 81.20 | 559.5 | VEGETAL | 0.535 | 28.80 | 262.6 |
| | TERRAPLEN | 2.197 | 9.76 | 21.0 | REV EXT TERR | 0.153 | 3.57 | 6.0 |
| 200.000 | EXC ESCALONADO | 0.537 | 2.38 | 2.4 | TERR ESCALONADO | 0.537 | 2.38 | 2.4 |
| | SANE0 | 7.084 | 140.51 | 162.8 | D TIERRA | 0.000 | 2.79 | 765.3 |
| | REVEST DESMON | 0.000 | 0.29 | 13.7 | ADECUADO COR | 3.872 | 82.61 | 642.1 |
| | VEGETAL | 0.000 | 2.67 | 265.3 | TERRAPLEN | 0.603 | 32.11 | 53.1 |
| | REV EXT TERR | 0.053 | 3.00 | 9.0 | EXC ESCALONADO | 0.145 | 7.29 | 9.7 |
| 206.003 | TERR ESCALONADO | 0.145 | 7.29 | 9.7 | | | | |
| | SANE0 | 7.160 | 42.75 | 205.6 | ADECUADO COR | 3.914 | 23.37 | 665.5 |
| | TERRAPLEN | 0.602 | 3.62 | 56.7 | REV EXT TERR | 0.000 | 0.16 | 9.1 |
| | EXC ESCALONADO | 0.164 | 0.93 | 10.6 | TERR ESCALONADO | 0.164 | 0.93 | 10.6 |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 50 : CE 2.5 CD (PI 2.4) (F4-50.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANE0 | 205.6 |
| D TIERRA | 765.3 |
| REVEST DESMON | 13.7 |
| ADECUADO COR | 665.5 |
| VEGETAL | 265.3 |
| TERRAPLEN | 56.7 |
| REV EXT TERR | 9.1 |
| EXC ESCALONADO | 10.6 |
| TERR ESCALONADO | 10.6 |

Istram 22.08.08.03 03/11/22 12:22:11 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 51 : REPOSICION GI-8593 (F4-51.vol)

Istram 22.08.08.03 03/11/22 12:22:11 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 52 : CE 3.5 CD (52.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 7.889 | 0.00 | 0.0 | ADECUADO COR | 3.479 | 0.00 | 0.0 |
| | SUELO EST 3 | 2.087 | 0.00 | 0.0 | VEGETAL | 0.161 | 0.00 | 0.0 |
| | TERRAPLEN | 0.071 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 8.059 | 158.07 | 158.1 | ADECUADO COR | 3.664 | 70.96 | 71.0 |
| | SUELO EST 3 | 2.199 | 42.58 | 42.6 | VEGETAL | 0.000 | 0.13 | 0.1 |
| | TERRAPLEN | 0.000 | 0.06 | 0.1 | REV EXT TERR | 0.086 | 1.07 | 1.1 |
| 40.000 | D TIERRA | 7.150 | 154.74 | 312.8 | ADECUADO COR | 3.667 | 72.48 | 143.4 |
| | SUELO EST 3 | 2.200 | 43.49 | 86.1 | VEGETAL | 0.396 | 1.99 | 2.1 |
| | REV EXT TERR | 0.075 | 1.36 | 2.4 | | | | |
| 60.000 | D TIERRA | 4.764 | 121.55 | 434.4 | ADECUADO COR | 3.815 | 74.97 | 218.4 |
| | SUELO EST 3 | 2.289 | 44.98 | 131.1 | VEGETAL | 1.385 | 16.67 | 18.8 |
| | REV EXT TERR | 0.145 | 2.27 | 4.7 | | | | |
| 80.000 | D TIERRA | 3.374 | 73.14 | 507.5 | ADECUADO COR | 4.132 | 79.77 | 298.2 |
| | SUELO EST 3 | 2.392 | 46.94 | 178.0 | VEGETAL | 2.070 | 37.45 | 56.2 |
| | TERRAPLEN | 0.001 | 0.02 | 0.1 | REV EXT TERR | 0.301 | 4.48 | 9.2 |
| 100.000 | D TIERRA | 4.235 | 77.68 | 585.2 | ADECUADO COR | 3.965 | 81.16 | 379.3 |
| | SUELO EST 3 | 2.373 | 47.84 | 225.8 | VEGETAL | 1.985 | 38.55 | 94.8 |
| | TERRAPLEN | 0.001 | 0.02 | 0.1 | REV EXT TERR | 0.220 | 5.30 | 14.5 |
| 120.000 | D TIERRA | 5.373 | 97.32 | 682.5 | ADECUADO COR | 3.636 | 75.81 | 455.2 |
| | SUELO EST 3 | 2.181 | 45.47 | 271.3 | VEGETAL | 1.820 | 37.96 | 132.7 |
| | TERRAPLEN | 0.001 | 0.01 | 0.1 | REV EXT TERR | 0.062 | 2.73 | 17.2 |
| 140.000 | D TIERRA | 5.362 | 107.03 | 789.5 | ADECUADO COR | 3.606 | 72.37 | 527.5 |
| | SUELO EST 3 | 2.163 | 43.42 | 314.7 | VEGETAL | 1.805 | 36.24 | 169.0 |
| | TERRAPLEN | 0.001 | 0.01 | 0.1 | REV EXT TERR | 0.047 | 1.07 | 18.3 |
| 160.000 | D TIERRA | 5.535 | 111.33 | 900.9 | ADECUADO COR | 3.583 | 70.98 | 598.5 |
| | SUELO EST 3 | 2.150 | 42.59 | 357.3 | VEGETAL | 1.794 | 35.54 | 204.5 |
| | TERRAPLEN | 0.001 | 0.01 | 0.1 | REV EXT TERR | 0.043 | 0.45 | 18.7 |
| 180.000 | D TIERRA | 4.795 | 103.61 | 1004.5 | ADECUADO COR | 3.801 | 73.66 | 672.2 |
| | SUELO EST 3 | 2.280 | 44.19 | 401.5 | VEGETAL | 1.903 | 36.88 | 241.4 |
| | TERRAPLEN | 0.001 | 0.01 | 0.1 | REV EXT TERR | 0.141 | 1.73 | 20.5 |
| 200.000 | D TIERRA | 3.963 | 86.49 | 1091.0 | ADECUADO COR | 4.063 | 79.04 | 751.2 |
| | SUELO EST 3 | 2.420 | 47.32 | 448.8 | VEGETAL | 1.882 | 37.85 | 279.3 |
| | TERRAPLEN | 0.001 | 0.01 | 0.2 | REV EXT TERR | 0.268 | 4.28 | 24.7 |
| 220.000 | D TIERRA | 3.591 | 74.27 | 1165.2 | ADECUADO COR | 4.086 | 81.65 | 832.9 |
| | SUELO EST 3 | 2.373 | 48.07 | 496.9 | VEGETAL | 2.046 | 40.12 | 319.4 |
| | TERRAPLEN | 0.001 | 0.02 | 0.2 | REV EXT TERR | 0.279 | 5.54 | 30.3 |
| 240.000 | D TIERRA | 3.927 | 72.19 | 1237.4 | ADECUADO COR | 3.892 | 81.92 | 914.8 |
| | SUELO EST 3 | 2.334 | 47.41 | 544.3 | VEGETAL | 1.185 | 32.62 | 352.0 |
| | TERRAPLEN | 0.000 | 0.01 | 0.2 | REV EXT TERR | 0.180 | 5.57 | 35.9 |
| 260.000 | D TIERRA | 6.872 | 115.36 | 1352.8 | ADECUADO COR | 3.833 | 77.01 | 991.8 |
| | SUELO EST 3 | 2.300 | 46.20 | 590.5 | VEGETAL | 0.411 | 9.37 | 361.4 |
| | REV EXT TERR | 0.154 | 3.23 | 39.1 | | | | |
| 280.000 | D TIERRA | 8.310 | 152.01 | 1504.8 | ADECUADO COR | 4.034 | 77.50 | 1069.3 |
| | SUELO EST 3 | 2.392 | 46.35 | 636.9 | VEGETAL | 0.000 | 4.05 | 365.4 |
| | REV EXT TERR | 0.262 | 3.83 | 42.9 | | | | |
| 300.000 | D TIERRA | 7.587 | 159.06 | 1663.8 | ADECUADO COR | 3.478 | 74.90 | 1144.2 |
| | SUELO EST 3 | 2.087 | 44.66 | 681.5 | REV EXT TERR | 0.114 | 3.77 | 46.7 |
| 311.522 | D TIERRA | 7.501 | 86.51 | 1750.4 | ADECUADO COR | 3.380 | 39.27 | 1183.5 |
| | SUELO EST 3 | 2.028 | 23.56 | 705.1 | REV EXT TERR | 0.048 | 0.85 | 47.5 |

Istram 22.08.08.03 03/11/22 12:22:11 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 51 : REPOSICION GI-8593 (F4-51.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 1750.4 |
| ADECUADO COR | 1183.5 |
| SUELO EST 3 | 705.1 |
| VEGETAL | 365.4 |
| TERRAPLEN | 0.2 |
| REV EXT TERR | 47.5 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 0.215 | 0.00 | 0.0 | ADECUADO COR | 0.150 | 0.00 | 0.0 |
| | REV EXT TERR | 0.123 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 0.001 | 18.77 | 18.8 | ADECUADO COR | 1.840 | 40.79 | 40.8 |
| | VEGETAL | 1.551 | 23.25 | 23.2 | TERRAPLEN | 0.346 | 3.75 | 3.7 |
| | REV EXT TERR | 0.291 | 4.57 | 4.6 | EXC ESCALONADO | 0.001 | 0.13 | 0.1 |
| 40.000 | TERR ESCALONADO | 0.001 | 0.13 | 0.1 | | | | |
| | D TIERRA | 0.359 | 3.97 | 22.7 | ADECUADO COR | 1.755 | 35.72 | 76.5 |
| | VEGETAL | 1.466 | 29.90 | 53.1 | TERRAPLEN | 0.002 | 1.65 | 5.4 |
| | REV EXT TERR | 0.207 | 4.73 | 9.3 | EXC ESCALONADO | 0.000 | 0.02 | 0.1 |
| 60.000 | TERR ESCALONADO | 0.000 | 0.02 | 0.1 | | | | |
| | D TIERRA | 0.865 | 15.03 | 37.8 | ADECUADO COR | 1.671 | 33.81 | 110.3 |
| | VEGETAL | 1.395 | 28.22 | 81.4 | TERRAPLEN | 0.002 | 0.03 | 5.4 |
| | REV EXT TERR | 0.140 | 3.10 | 12.4 | | | | |
| 80.000 | D TIERRA | 1.285 | 20.18 | 58.0 | ADECUADO COR | 1.594 | 32.94 | 143.2 |
| | VEGETAL | 1.331 | 27.50 | 108.9 | TERRAPLEN | 0.001 | 0.03 | 5.5 |
| | REV EXT TERR | 0.076 | 2.41 | 14.8 | | | | |
| 100.000 | D TIERRA | 1.596 | 31.24 | 89.2 | ADECUADO COR | 1.698 | 33.35 | 176.6 |
| | VEGETAL | 1.486 | 28.94 | 137.8 | TERRAPLEN | 0.001 | 0.02 | 5.5 |
| | REV EXT TERR | 0.054 | 1.12 | 15.9 | | | | |
| 120.000 | D TIERRA | 1.655 | 31.36 | 120.6 | ADECUADO COR | 1.701 | 33.35 | 209.9 |
| | VEGETAL | 1.501 | 28.94 | 166.7 | TERRAPLEN | 0.001 | 0.02 | 5.5 |
| | REV EXT TERR | 0.057 | 1.15 | 17.1 | | | | |
| 140.000 | D TIERRA | 0.711 | 31.78 | 152.3 | REVEST DESMON | 0.000 | 0.28 | 0.3 |
| | ADECUADO COR | 1.676 | 33.56 | 243.5 | VEGETAL | 1.399 | 29.69 | 196.4 |
| | TERRAPLEN | 0.002 | 0.02 | 5.5 | REV EXT TERR | 0.132 | 1.25 | 18.3 |
| 160.000 | D TIERRA | 0.789 | 14.97 | 167.3 | ADECUADO COR | 1.684 | 33.71 | 277.2 |
| | VEGETAL | 1.405 | 28.14 | 224.6 | TERRAPLEN | 0.002 | 0.03 | 5.5 |
| | REV EXT TERR | 0.149 | 2.96 | 21.3 | | | | |
| 180.000 | D TIERRA | 0.938 | 16.94 | 184.2 | ADECUADO COR | 1.658 | 33.47 | 310.7 |
| | VEGETAL | 1.384 | 27.94 | 252.5 | TERRAPLEN | 0.002 | 0.03 | 5.6 |
| | REV EXT TERR | 0.129 | 2.82 | 24.1 | | | | |
| 200.000 | D TIERRA | 1.017 | 20.19 | 204.4 | ADECUADO COR | 1.642 | 32.88 | 343.6 |
| | VEGETAL | 1.371 | 27.45 | 280.0 | TERRAPLEN | 0.001 | 0.03 | 5.6 |
| | REV EXT TERR | 0.116 | 2.35 | 26.5 | | | | |
| 220.000 | D TIERRA | 0.459 | 15.11 | 219.5 | ADECUADO COR | 1.733 | 33.69 | 377.2 |
| | VEGETAL | 1.447 | 28.13 | 308.1 | TERRAPLEN | 0.002 | 0.03 | 5.6 |
| | REV EXT TERR | 0.189 | 3.00 | 29.5 | | | | |
| 240.000 | SANEADO | 0.167 | 3.18 | 3.2 | D TIERRA | 0.080 | 4.60 | 224.1 |
| | ADECUADO COR | 1.805 | 35.49 | 412.7 | VEGETAL | 1.762 | 34.44 | 342.5 |
| | TERRAPLEN | 0.099 | 0.73 | 6.4 | REV EXT TERR | 0.253 | 4.51 | 34.0 |
| | EXC ESCALONADO | 0.001 | 0.01 | 0.2 | TERR ESCALONADO | 0.001 | 0.01 | 0.2 |
| 260.000 | SANEADO | 0.161 | 3.31 | 6.5 | D TIERRA | 0.273 | 3.49 | 227.6 |
| | ADECUADO COR | 1.771 | 35.77 | 448.5 | VEGETAL | 1.731 | 34.99 | 377.5 |
| | TERRAPLEN | 0.038 | 1.87 | 8.2 | REV EXT TERR | 0.226 | 4.83 | 38.8 |
| | EXC ESCALONADO | 0.014 | 0.26 | 0.4 | TERR ESCALONADO | 0.014 | 0.26 | 0.4 |
| 280.000 | SANEADO | 0.165 | 3.28 | 9.8 | D TIERRA | 0.300 | 4.85 | 232.5 |
| | ADECUADO COR | 1.763 | 35.47 | 484.0 | VEGETAL | 1.722 | 34.65 | 412.2 |
| | TERRAPLEN | 0.010 | 0.66 | 8.9 | REV EXT TERR | 0.215 | 4.52 | 43.3 |
| | EXC ESCALONADO | 0.002 | 0.12 | 0.5 | TERR ESCALONADO | 0.002 | 0.12 | 0.5 |
| 300.000 | SANEADO | 0.000 | 2.47 | 12.2 | D TIERRA | 1.049 | 10.95 | 243.4 |
| | ADECUADO COR | 1.667 | 34.59 | 518.6 | VEGETAL | 1.933 | 35.34 | 447.5 |
| | TERRAPLEN | 0.293 | 1.54 | 10.4 | REV EXT TERR | 0.137 | 3.75 | 47.1 |
| 320.000 | D TIERRA | 1.649 | 28.93 | 272.4 | ADECUADO COR | 1.553 | 31.88 | 550.4 |
| | VEGETAL | 1.838 | 37.44 | 484.9 | TERRAPLEN | 0.293 | 5.86 | 16.3 |
| | REV EXT TERR | 0.045 | 1.56 | 48.6 | | | | |
| 340.000 | D TIERRA | 1.121 | 26.73 | 299.1 | ADECUADO COR | 1.653 | 32.27 | 582.7 |
| | VEGETAL | 1.921 | 37.78 | 522.7 | TERRAPLEN | 0.293 | 5.86 | 22.2 |
| | REV EXT TERR | 0.125 | 1.87 | 50.5 | | | | |
| 360.000 | D TIERRA | 1.300 | 25.60 | 324.7 | ADECUADO COR | 1.621 | 32.55 | 615.3 |
| | VEGETAL | 1.893 | 37.62 | 560.3 | TERRAPLEN | 0.293 | 5.86 | 28.0 |
| | REV EXT TERR | 0.099 | 2.09 | 52.6 | | | | |
| 380.000 | SANEADO | 0.166 | 0.83 | 13.1 | D TIERRA | 0.613 | 23.11 | 347.8 |
| | ADECUADO COR | 1.714 | 32.77 | 648.0 | VEGETAL | 1.680 | 36.71 | 597.1 |
| | TERRAPLEN | 0.002 | 4.40 | 32.4 | REV EXT TERR | 0.174 | 2.27 | 54.9 |
| 400.000 | SANEADO | 0.169 | 3.37 | 16.4 | D TIERRA | 0.263 | 7.47 | 355.3 |
| | ADECUADO COR | 1.769 | 35.04 | 683.1 | VEGETAL | 1.729 | 34.28 | 631.3 |
| | TERRAPLEN | 0.002 | 0.04 | 32.5 | REV EXT TERR | 0.219 | 4.10 | 59.0 |
| 420.000 | SANEADO | 0.900 | 14.42 | 30.9 | D TIERRA | 0.553 | 7.26 | 362.5 |
| | ADECUADO COR | 1.723 | 34.98 | 718.1 | VEGETAL | 2.021 | 39.13 | 670.5 |
| | TERRAPLEN | 0.002 | 0.05 | 32.5 | REV EXT TERR | 0.181 | 4.05 | 63.0 |
| 440.000 | SANEADO | 1.455 | 11.77 | 42.6 | D TIERRA | 0.840 | 28.63 | 391.2 |
| | ADECUADO COR | 1.715 | 34.11 | 752.2 | VEGETAL | 1.198 | 32.29 | 702.8 |
| | TERRAPLEN | 0.001 | 1.47 | 34.0 | REV EXT TERR | 0.175 | 3.35 | 66.4 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 52 : CE 3.5 CD (52.vol1)

Istram 22.08.08.03 03/11/22 12:22:11 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 52 : CE 3.5 CD (52.vol1)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 460.000 | SANEO | 1.498 | 29.74 | 72.4 | D TIERRA | 1.574 | 21.02 | 412.2 |
| | ADECUADO COR | 1.778 | 35.20 | 787.4 | VEGETAL | 0.083 | 14.41 | 717.2 |
| | TERRAPLEN | 0.001 | 0.02 | 34.0 | REV EXT TERR | 0.228 | 4.30 | 70.7 |
| 480.000 | SANEO | 1.492 | 29.97 | 102.3 | D TIERRA | 1.845 | 34.87 | 447.1 |
| | ADECUADO COR | 1.749 | 35.25 | 822.6 | VEGETAL | 0.000 | 0.41 | 717.6 |
| | REV EXT TERR | 0.203 | 4.29 | 74.9 | | | | |
| 500.000 | SANEO | 0.000 | 7.46 | 109.8 | D TIERRA | 5.062 | 77.67 | 524.7 |
| | REVEST DESMON | 0.028 | 0.16 | 0.4 | ADECUADO COR | 1.652 | 33.19 | 855.8 |
| | REV EXT TERR | 0.017 | 1.72 | 76.7 | | | | |
| 520.000 | D TIERRA | 8.376 | 130.03 | 654.7 | REVEST DESMON | 0.193 | 1.71 | 2.1 |
| | ADECUADO COR | 2.011 | 38.42 | 894.2 | REV EXT TERR | 0.000 | 0.09 | 76.7 |
| 540.000 | D TIERRA | 2.123 | 92.14 | 746.9 | REVEST DESMON | 0.000 | 1.55 | 3.7 |
| | ADECUADO COR | 1.605 | 37.04 | 931.3 | VEGETAL | 2.214 | 35.54 | 753.1 |
| | TERRAPLEN | 0.293 | 2.45 | 36.4 | REV EXT TERR | 0.087 | 0.37 | 77.1 |
| 560.000 | D TIERRA | 1.848 | 38.70 | 785.6 | ADECUADO COR | 1.655 | 32.79 | 964.1 |
| | VEGETAL | 2.253 | 44.83 | 797.9 | TERRAPLEN | 0.293 | 5.86 | 42.3 |
| | REV EXT TERR | 0.126 | 2.28 | 79.4 | | | | |
| 580.000 | D TIERRA | 1.952 | 37.40 | 823.0 | ADECUADO COR | 1.636 | 33.01 | 997.1 |
| | VEGETAL | 2.238 | 45.00 | 842.9 | TERRAPLEN | 0.293 | 5.87 | 48.2 |
| | REV EXT TERR | 0.111 | 2.46 | 81.9 | | | | |
| 600.000 | D TIERRA | 1.982 | 39.27 | 862.3 | ADECUADO COR | 1.631 | 32.68 | 1029.7 |
| | VEGETAL | 2.234 | 44.72 | 887.7 | TERRAPLEN | 0.293 | 5.86 | 54.0 |
| | REV EXT TERR | 0.107 | 2.19 | 84.0 | | | | |
| 620.000 | D TIERRA | 1.811 | 38.33 | 900.6 | ADECUADO COR | 1.660 | 32.83 | 1062.6 |
| | VEGETAL | 2.257 | 44.84 | 932.5 | TERRAPLEN | 0.293 | 5.86 | 59.9 |
| | REV EXT TERR | 0.130 | 2.32 | 86.4 | | | | |
| 640.000 | D TIERRA | 1.888 | 38.09 | 938.7 | ADECUADO COR | 1.646 | 32.87 | 1095.4 |
| | VEGETAL | 2.245 | 44.86 | 977.4 | TERRAPLEN | 0.293 | 5.86 | 65.8 |
| | REV EXT TERR | 0.119 | 2.34 | 88.7 | | | | |
| 660.000 | D TIERRA | 1.829 | 38.03 | 976.7 | ADECUADO COR | 1.677 | 32.97 | 1128.4 |
| | VEGETAL | 2.096 | 44.07 | 1021.4 | TERRAPLEN | 0.250 | 5.65 | 71.4 |
| | REV EXT TERR | 0.143 | 2.42 | 91.1 | | | | |
| 680.000 | SANEO | 0.000 | 4.82 | 114.6 | D TIERRA | 2.782 | 35.94 | 1012.6 |
| | ADECUADO COR | 1.631 | 33.15 | 1161.6 | VEGETAL | 1.118 | 37.51 | 1059.0 |
| | TERRAPLEN | 0.028 | 3.04 | 74.4 | REV EXT TERR | 0.107 | 2.57 | 93.7 |
| 700.000 | SANEO | 0.908 | 12.67 | 127.3 | D TIERRA | 0.000 | 21.12 | 1033.8 |
| | ADECUADO COR | 1.861 | 35.59 | 1197.1 | VEGETAL | 2.166 | 31.05 | 1090.0 |
| | TERRAPLEN | 0.657 | 7.70 | 82.1 | REV EXT TERR | 0.324 | 4.87 | 98.6 |
| | EXC ESCALONADO | 0.017 | 0.45 | 1.0 | TERR ESCALONADO | 0.017 | 0.45 | 1.0 |
| 720.000 | SANEO | 0.905 | 18.13 | 145.4 | ADECUADO COR | 1.855 | 37.18 | 1234.3 |
| | VEGETAL | 2.159 | 43.27 | 1133.3 | TERRAPLEN | 0.613 | 12.64 | 94.8 |
| | REV EXT TERR | 0.317 | 6.44 | 105.0 | EXC ESCALONADO | 0.026 | 0.40 | 1.4 |
| | TERR ESCALONADO | 0.026 | 0.40 | 1.4 | | | | |
| 740.000 | SANEO | 0.915 | 18.13 | 163.5 | ADECUADO COR | 1.860 | 37.11 | 1271.4 |
| | VEGETAL | 2.163 | 43.17 | 1176.5 | TERRAPLEN | 0.598 | 11.57 | 106.4 |
| | REV EXT TERR | 0.319 | 6.34 | 111.3 | EXC ESCALONADO | 0.003 | 0.42 | 1.8 |
| | TERR ESCALONADO | 0.003 | 0.42 | 1.8 | | | | |
| 760.000 | SANEO | 0.907 | 18.30 | 181.8 | D TIERRA | 0.198 | 1.10 | 1034.9 |
| | ADECUADO COR | 1.781 | 36.50 | 1307.9 | VEGETAL | 2.070 | 42.37 | 1218.8 |
| | TERRAPLEN | 0.022 | 5.58 | 111.9 | REV EXT TERR | 0.231 | 5.53 | 116.9 |
| | EXC ESCALONADO | 0.000 | 0.06 | 1.9 | TERR ESCALONADO | 0.000 | 0.06 | 1.9 |
| 780.000 | SANEO | 0.895 | 17.96 | 199.8 | D TIERRA | 0.512 | 8.03 | 1042.9 |
| | ADECUADO COR | 1.729 | 34.97 | 1342.9 | VEGETAL | 2.024 | 40.81 | 1259.6 |
| | TERRAPLEN | 0.002 | 0.13 | 112.1 | REV EXT TERR | 0.187 | 4.07 | 121.0 |
| 800.000 | SANEO | 0.895 | 17.90 | 217.7 | D TIERRA | 0.631 | 11.43 | 1054.3 |
| | ADECUADO COR | 1.710 | 34.39 | 1377.3 | VEGETAL | 2.008 | 40.32 | 1300.0 |
| | TERRAPLEN | 0.002 | 0.04 | 112.1 | REV EXT TERR | 0.171 | 3.57 | 124.5 |
| 820.000 | SANEO | 0.000 | 13.43 | 231.1 | D TIERRA | 1.639 | 18.23 | 1072.6 |
| | ADECUADO COR | 1.691 | 34.01 | 1411.3 | VEGETAL | 2.284 | 41.45 | 1341.4 |
| | TERRAPLEN | 0.293 | 1.49 | 113.6 | REV EXT TERR | 0.156 | 3.26 | 127.8 |
| 840.000 | D TIERRA | 1.797 | 34.97 | 1107.5 | ADECUADO COR | 1.672 | 33.48 | 1444.8 |
| | VEGETAL | 2.229 | 45.19 | 1386.6 | TERRAPLEN | 0.293 | 5.86 | 119.5 |
| | REV EXT TERR | 0.140 | 2.84 | 130.6 | | | | |
| 860.000 | SANEO | 0.900 | 4.50 | 235.6 | D TIERRA | 0.613 | 28.13 | 1135.7 |
| | ADECUADO COR | 1.715 | 33.91 | 1478.7 | VEGETAL | 2.012 | 44.11 | 1430.7 |
| | TERRAPLEN | 0.002 | 4.41 | 123.9 | REV EXT TERR | 0.175 | 3.18 | 133.8 |
| 880.000 | SANEO | 0.906 | 18.17 | 253.8 | D TIERRA | 0.093 | 5.97 | 1141.6 |
| | ADECUADO COR | 1.808 | 35.32 | 1514.0 | VEGETAL | 2.101 | 41.19 | 1471.9 |
| | TERRAPLEN | 0.159 | 0.94 | 124.8 | REV EXT TERR | 0.261 | 4.40 | 138.2 |
| | EXC ESCALONADO | 0.016 | 0.08 | 1.9 | TERR ESCALONADO | 0.016 | 0.08 | 1.9 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 900.000 | SANEO | 0.908 | 18.17 | 272.0 | D TIERRA | 0.056 | 0.65 | 1142.3 |
| | ADECUADO COR | 1.814 | 36.51 | 1550.5 | VEGETAL | 2.106 | 42.39 | 1514.3 |
| | TERRAPLEN | 0.175 | 5.31 | 130.1 | REV EXT TERR | 0.265 | 5.56 | 143.8 |
| | EXC ESCALONADO | 0.008 | 0.22 | 2.2 | TERR ESCALONADO | 0.008 | 0.22 | 2.2 |
| 920.000 | SANEO | 0.909 | 18.17 | 290.1 | D TIERRA | 0.097 | 1.75 | 1144.0 |
| | ADECUADO COR | 1.802 | 36.10 | 1586.6 | VEGETAL | 2.093 | 41.93 | 1556.2 |
| | TERRAPLEN | 0.115 | 2.55 | 132.7 | REV EXT TERR | 0.252 | 5.11 | 148.9 |
| | EXC ESCALONADO | 0.006 | 0.12 | 2.3 | TERR ESCALONADO | 0.006 | 0.12 | 2.3 |
| 940.000 | SANEO | 0.918 | 18.22 | 308.4 | D TIERRA | 0.014 | 1.49 | 1145.5 |
| | ADECUADO COR | 1.831 | 36.20 | 1622.8 | VEGETAL | 2.126 | 42.06 | 1598.3 |
| | TERRAPLEN | 0.302 | 3.57 | 136.2 | REV EXT TERR | 0.282 | 5.23 | 154.1 |
| | EXC ESCALONADO | 0.008 | 0.17 | 2.5 | TERR ESCALONADO | 0.008 | 0.17 | 2.5 |
| 960.000 | SANEO | 0.915 | 18.35 | 326.7 | D TIERRA | 0.000 | 0.07 | 1145.6 |
| | ADECUADO COR | 1.851 | 36.87 | 1659.7 | VEGETAL | 2.149 | 42.80 | 1641.1 |
| | TERRAPLEN | 0.482 | 8.15 | 144.4 | REV EXT TERR | 0.307 | 5.94 | 160.0 |
| | EXC ESCALONADO | 0.003 | 0.09 | 2.6 | TERR ESCALONADO | 0.003 | 0.09 | 2.6 |
| 980.000 | SANEO | 0.915 | 18.29 | 345.0 | ADECUADO COR | 1.860 | 37.12 | 1696.8 |
| | VEGETAL | 2.163 | 43.12 | 1684.2 | TERRAPLEN | 0.600 | 10.82 | 155.2 |
| | REV EXT TERR | 0.320 | 6.26 | 166.3 | EXC ESCALONADO | 0.003 | 0.05 | 2.6 |
| | TERR ESCALONADO | 0.003 | 0.05 | 2.6 | | | | |
| 1000.000 | SANEO | 0.905 | 18.24 | 363.2 | ADECUADO COR | 1.858 | 37.24 | 1734.1 |
| | VEGETAL | 2.162 | 43.31 | 1727.5 | TERRAPLEN | 0.606 | 12.62 | 167.8 |
| | REV EXT TERR | 0.320 | 6.46 | 172.8 | EXC ESCALONADO | 0.018 | 0.13 | 2.7 |
| | TERR ESCALONADO | 0.018 | 0.13 | 2.7 | | | | |
| 1020.000 | SANEO | 0.905 | 18.20 | 381.4 | ADECUADO COR | 1.861 | 37.23 | 1771.3 |
| | VEGETAL | 2.166 | 42.78 | 1770.3 | TERRAPLEN | 0.642 | 12.33 | 180.2 |
| | REV EXT TERR | 0.324 | 6.47 | 179.2 | EXC ESCALONADO | 0.017 | 0.45 | 3.2 |
| | TERR ESCALONADO | 0.017 | 0.45 | 3.2 | | | | |
| 1040.000 | SANEO | 0.997 | 18.63 | 400.1 | D TIERRA | 0.002 | 0.01 | 1145.6 |
| | ADECUADO COR | 1.842 | 37.05 | 1808.3 | VEGETAL | 2.050 | 42.63 | 1812.9 |
| | TERRAPLEN | 0.411 | 10.76 | 190.9 | REV EXT TERR | 0.298 | 6.23 | 185.5 |
| | EXC ESCALONADO | 0.017 | 0.34 | 3.5 | TERR ESCALONADO | 0.017 | 0.34 | 3.5 |
| 1060.000 | SANEO | 1.451 | 21.08 | 421.2 | D TIERRA | 0.049 | 0.28 | 1145.9 |
| | ADECUADO COR | 1.869 | 36.93 | 1845.3 | VEGETAL | 1.118 | 37.63 | 1850.6 |
| | TERRAPLEN | 0.449 | 7.90 | 198.8 | REV EXT TERR | 0.322 | 6.01 | 191.5 |
| | EXC ESCALONADO | 0.113 | 0.73 | 4.3 | TERR ESCALONADO | 0.113 | 0.73 | 4.3 |
| 1080.000 | SANEO | 0.905 | 21.74 | 442.9 | D TIERRA | 0.000 | 3.23 | 1149.1 |
| | ADECUADO COR | 1.894 | 36.94 | 1882.2 | VEGETAL | 2.227 | 34.89 | 1885.5 |
| | TERRAPLEN | 1.470 | 18.34 | 217.2 | REV EXT TERR | 0.411 | 6.22 | 197.7 |
| | EXC ESCALONADO | 0.029 | 2.55 | 6.8 | TERR ESCALONADO | 0.029 | 2.55 | 6.8 |
| 1100.000 | SANEO | 0.899 | 18.02 | 460.9 | ADECUADO COR | 1.880 | 37.71 | 1919.9 |
| | VEGETAL | 2.200 | 44.07 | 1929.5 | TERRAPLEN | 0.903 | 23.36 | 240.5 |
| | REV EXT TERR | 0.359 | 7.64 | 205.3 | EXC ESCALONADO | 0.028 | 0.60 | 7.4 |
| | TERR ESCALONADO | 0.028 | 0.60 | 7.4 | | | | |
| 1120.000 | SANEO | 0.900 | 17.97 | 478.9 | ADECUADO COR | 1.865 | 37.45 | 1957.4 |
| | VEGETAL | 2.162 | 43.60 | 1973.1 | TERRAPLEN | 0.618 | 14.78 | 255.3 |
| | REV EXT TERR | 0.322 | 6.79 | 212.1 | EXC ESCALONADO | 0.019 | 0.46 | 7.9 |
| | TERR ESCALONADO | 0.019 | 0.46 | 7.9 | | | | |
| 1140.000 | SANEO | 0.929 | 18.44 | 497.3 | ADECUADO COR | 1.852 | 37.17 | 1994.6 |
| | VEGETAL | 2.149 | 43.13 | 2016.3 | TERRAPLEN | 0.454 | 10.72 | 266.0 |
| | REV EXT TERR | 0.304 | 6.26 | 218.4 | EXC ESCALONADO | 0.019 | 0.37 | 8.2 |
| | TERR ESCALONADO | 0.019 | 0.37 | 8.2 | | | | |

| | | | | | | | | |
|----------|-----------------|-------|-------|--------|----------------|-------|-------|--------|
| 1340.000 | SANEO | 0.917 | 18.31 | 578.3 | ADECUADO COR | 1.881 | 37.60 | 2341.3 |
| | VEGETAL | 2.200 | 43.59 | 2455.3 | TERRAPLEN | 0.935 | 18.53 | 335.3 |
| | REV EXT TERR | 0.356 | 7.13 | 258.4 | EXC ESCALONADO | 0.000 | 0.29 | 9.7 |
| | TERR ESCALONADO | 0.000 | 0.29 | 9.7 | | | | |
| 1357.779 | SANEO | 0.000 | 13.40 | 591.7 | D TIERRA | 0.000 | 19.24 | 1379.2 |
| | ADECUADO COR | 0.000 | 35.00 | 2376.3 | VEGETAL | 0.000 | 30.66 | 2486.0 |
| | TERRAPLEN | 0.000 | 9.75 | 345.0 | REV EXT TERR | 0.000 | 4.91 | 263.3 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 53 : CE 4.8 CD (F4-53.vol)

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 52 : CE 3.5 CD (52.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

 *** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 591.7 |
| D TIERRA | 1379.2 |
| REVEST DESMON | 3.7 |
| ADECUADO COR | 2376.3 |
| VEGETAL | 2486.0 |
| TERRAPLEN | 345.0 |
| REV EXT TERR | 263.3 |
| EXC ESCALONADO | 9.7 |
| TERR ESCALONADO | 9.7 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 11.522 | 0.00 | 0.0 | REVEST DESMON | 0.074 | 0.00 | 0.0 |
| | ADECUADO COR | 4.937 | 0.00 | 0.0 | REV EXT TERR | 0.082 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 0.902 | 37.40 | 37.4 | REVEST DESMON | 0.000 | 0.06 | 0.1 |
| | ADECUADO COR | 1.882 | 41.27 | 41.3 | VEGETAL | 2.479 | 39.89 | 39.9 |
| | TERRAPLEN | 1.329 | 28.04 | 28.0 | REV EXT TERR | 0.374 | 7.22 | 7.2 |
| | EXC ESCALONADO | 0.031 | 0.21 | 0.2 | TERR ESCALONADO | 0.031 | 0.21 | 0.2 |
| 40.000 | D TIERRA | 1.182 | 19.36 | 56.8 | ADECUADO COR | 1.762 | 36.59 | 77.9 |
| | VEGETAL | 2.345 | 48.35 | 88.2 | TERRAPLEN | 0.294 | 14.08 | 42.1 |
| | REV EXT TERR | 0.214 | 5.84 | 13.1 | EXC ESCALONADO | 0.000 | 0.32 | 0.5 |
| | TERR ESCALONADO | 0.000 | 0.32 | 0.5 | | | | |
| 60.000 | D TIERRA | 1.990 | 34.01 | 90.8 | ADECUADO COR | 1.632 | 33.61 | 111.5 |
| | VEGETAL | 2.237 | 45.55 | 133.8 | TERRAPLEN | 0.293 | 5.87 | 48.0 |
| | REV EXT TERR | 0.108 | 2.95 | 16.0 | | | | |
| 80.000 | D TIERRA | 1.623 | 36.31 | 127.1 | ADECUADO COR | 1.698 | 33.25 | 144.7 |
| | VEGETAL | 2.293 | 45.22 | 179.0 | TERRAPLEN | 0.293 | 5.86 | 53.8 |
| | REV EXT TERR | 0.161 | 2.65 | 18.7 | | | | |
| 100.000 | D TIERRA | 1.705 | 33.93 | 161.0 | ADECUADO COR | 1.687 | 33.73 | 178.4 |
| | VEGETAL | 2.286 | 45.68 | 224.7 | TERRAPLEN | 0.293 | 5.87 | 59.7 |
| | REV EXT TERR | 0.152 | 3.04 | 21.7 | | | | |
| 120.000 | D TIERRA | 2.028 | 36.54 | 197.5 | ADECUADO COR | 1.628 | 33.30 | 211.7 |
| | VEGETAL | 2.234 | 45.33 | 270.0 | TERRAPLEN | 0.293 | 5.86 | 65.6 |
| | REV EXT TERR | 0.105 | 2.70 | 24.4 | | | | |
| 140.000 | D TIERRA | 2.125 | 41.49 | 239.0 | ADECUADO COR | 1.609 | 32.37 | 244.1 |
| | VEGETAL | 2.219 | 44.54 | 314.6 | TERRAPLEN | 0.293 | 5.86 | 71.4 |
| | REV EXT TERR | 0.089 | 1.95 | 26.3 | | | | |
| 160.000 | D TIERRA | 1.909 | 43.73 | 282.8 | ADECUADO COR | 1.645 | 31.89 | 276.0 |
| | VEGETAL | 2.247 | 44.12 | 358.7 | TERRAPLEN | 0.293 | 5.86 | 77.3 |
| | REV EXT TERR | 0.119 | 1.56 | 27.9 | | | | |
| 180.000 | D TIERRA | 2.261 | 38.03 | 320.8 | ADECUADO COR | 1.582 | 32.98 | 309.0 |
| | VEGETAL | 2.197 | 45.05 | 403.7 | TERRAPLEN | 0.293 | 5.86 | 83.2 |
| | REV EXT TERR | 0.068 | 2.44 | 30.3 | | | | |
| 200.000 | D TIERRA | 2.125 | 43.86 | 364.7 | ADECUADO COR | 1.603 | 31.85 | 340.8 |
| | VEGETAL | 2.210 | 44.07 | 447.8 | TERRAPLEN | 0.293 | 5.86 | 89.0 |
| | REV EXT TERR | 0.085 | 1.53 | 31.9 | | | | |
| 220.000 | D TIERRA | 1.664 | 38.32 | 403.0 | ADECUADO COR | 1.684 | 32.82 | 373.7 |
| | VEGETAL | 2.274 | 44.81 | 492.6 | TERRAPLEN | 0.293 | 5.86 | 94.9 |
| | REV EXT TERR | 0.151 | 2.31 | 34.2 | | | | |
| 240.000 | D TIERRA | 1.941 | 34.71 | 437.7 | ADECUADO COR | 1.636 | 33.47 | 407.1 |
| | VEGETAL | 2.236 | 45.35 | 538.0 | TERRAPLEN | 0.293 | 5.87 | 100.7 |
| | REV EXT TERR | 0.112 | 2.83 | 37.0 | | | | |
| 260.000 | D TIERRA | 1.831 | 37.67 | 475.4 | ADECUADO COR | 1.657 | 32.94 | 440.1 |
| | VEGETAL | 2.255 | 44.93 | 582.9 | TERRAPLEN | 0.293 | 5.86 | 106.6 |
| | REV EXT TERR | 0.128 | 2.40 | 39.4 | | | | |
| 280.000 | D TIERRA | 2.011 | 38.97 | 514.3 | ADECUADO COR | 1.623 | 32.69 | 472.8 |
| | VEGETAL | 2.226 | 44.71 | 627.6 | TERRAPLEN | 0.293 | 5.86 | 112.5 |
| | REV EXT TERR | 0.101 | 2.20 | 41.6 | | | | |
| 300.000 | D TIERRA | 1.931 | 38.37 | 552.7 | ADECUADO COR | 1.641 | 32.84 | 505.6 |
| | VEGETAL | 2.245 | 44.91 | 672.5 | TERRAPLEN | 0.293 | 5.86 | 118.3 |
| | REV EXT TERR | 0.114 | 2.31 | 43.9 | | | | |
| 320.000 | D TIERRA | 1.954 | 38.35 | 591.1 | ADECUADO COR | 1.632 | 32.79 | 538.4 |
| | VEGETAL | 2.234 | 44.85 | 717.4 | TERRAPLEN | 0.293 | 5.86 | 124.2 |
| | REV EXT TERR | 0.108 | 2.27 | 46.2 | | | | |
| 340.000 | D TIERRA | 2.125 | 40.75 | 631.8 | ADECUADO COR | 1.598 | 32.31 | 570.7 |
| | VEGETAL | 2.203 | 44.31 | 761.7 | TERRAPLEN | 0.293 | 5.86 | 130.1 |
| | REV EXT TERR | 0.081 | 1.90 | 48.1 | | | | |
| 360.000 | D TIERRA | 2.350 | 43.68 | 675.5 | ADECUADO COR | 1.723 | 31.99 | 602.7 |
| | VEGETAL | 2.490 | 44.38 | 806.1 | TERRAPLEN | 0.399 | 6.03 | 136.1 |
| | REV EXT TERR | 0.075 | 1.47 | 49.5 | | | | |
| 380.000 | D TIERRA | 1.879 | 41.30 | 716.8 | ADECUADO COR | 1.650 | 32.55 | 635.2 |
| | VEGETAL | 2.250 | 44.98 | 851.0 | TERRAPLEN | 0.293 | 6.07 | 142.2 |
| | REV EXT TERR | 0.123 | 1.87 | 51.4 | | | | |
| 400.000 | D TIERRA | 2.579 | 43.23 | 760.0 | ADECUADO COR | 1.684 | 32.78 | 668.0 |
| | VEGETAL | 2.412 | 45.50 | 896.5 | TERRAPLEN | 0.357 | 6.18 | 148.4 |
| | REV EXT TERR | 0.043 | 1.74 | 53.2 | | | | |
| 420.000 | D TIERRA | 1.904 | 48.07 | 808.1 | ADECUADO COR | 1.647 | 32.55 | 700.6 |
| | VEGETAL | 2.249 | 46.01 | 942.5 | TERRAPLEN | 0.293 | 6.58 | 154.9 |
| | REV EXT TERR | 0.120 | 1.14 | 54.3 | | | | |
| 440.000 | D TIERRA | 2.718 | 37.56 | 845.6 | REVEST DESMON | 0.015 | 0.03 | 0.1 |
| | ADECUADO COR | 1.686 | 33.24 | 733.8 | VEGETAL | 2.433 | 45.47 | 988.0 |
| | TERRAPLEN | 0.393 | 6.04 | 161.0 | REV EXT TERR | 0.045 | 2.46 | 56.8 |
| 447.848 | D TIERRA | 2.923 | 22.15 | 867.8 | REVEST DESMON | 0.042 | 0.23 | 0.3 |
| | ADECUADO COR | 1.672 | 13.20 | 747.0 | VEGETAL | 2.524 | 19.52 | 1007.5 |
| | TERRAPLEN | 0.392 | 3.09 | 164.1 | REV EXT TERR | 0.034 | 0.33 | 57.1 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 53 : CE 4.8 CD (F4-53.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 867.8 |
| REVEST DESMON | 0.3 |
| ADECUADO COR | 747.0 |
| VEGETAL | 1007.5 |
| TERRAPLEN | 164.1 |
| REV EXT TERR | 57.1 |
| EXC ESCALONADO | 0.5 |
| TERR ESCALONADO | 0.5 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 54 : CE 5.4 CD (F4-54.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 3.976 | 0.00 | 0.0 | REVEST DESMON | 0.243 | 0.00 | 0.0 |
| | ADECUADO COR | 1.719 | 0.00 | 0.0 | VEGETAL | 0.316 | 0.00 | 0.0 |
| | TERRAPLEN | 0.043 | 0.00 | 0.0 | REV EXT TERR | 0.076 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 3.259 | 74.36 | 74.4 | REVEST DESMON | 0.140 | 4.54 | 4.5 |
| | ADECUADO COR | 1.728 | 33.54 | 33.5 | VEGETAL | 0.000 | 5.44 | 5.4 |
| | TERRAPLEN | 0.000 | 1.08 | 1.1 | REV EXT TERR | 0.056 | 0.64 | 0.6 |
| 80.000 | SANEO | 17.141 | 175.52 | 175.5 | REVEST DESMON | 0.425 | 4.38 | 8.9 |
| | ADECUADO COR | 1.842 | 18.42 | 52.0 | TERRAPLEN | 14.053 | 115.98 | 117.1 |
| | REV EXT TERR | 0.463 | 4.47 | 5.1 | EXC ESCALONADO | 1.149 | 11.48 | 11.5 |
| | TERR ESCALONADO | 1.149 | 11.48 | 11.5 | | | | |
| 100.000 | SANEO | 17.169 | 339.67 | 515.2 | REVEST DESMON | 0.386 | 8.13 | 17.1 |
| | ADECUADO COR | 1.842 | 36.84 | 88.8 | TERRAPLEN | 17.297 | 308.96 | 426.0 |
| | REV EXT TERR | 0.488 | 9.22 | 14.3 | EXC ESCALONADO | 1.073 | 21.29 | 32.8 |
| | TERR ESCALONADO | 1.073 | 21.29 | 32.8 | | | | |
| 120.000 | SANEO | 17.208 | 353.36 | 868.6 | REVEST DESMON | 0.178 | 9.01 | 26.1 |
| | ADECUADO COR | 1.842 | 36.84 | 125.6 | TERRAPLEN | 15.669 | 355.67 | 781.7 |
| | REV EXT TERR | 0.562 | 10.70 | 25.0 | EXC ESCALONADO | 1.084 | 20.26 | 53.0 |
| | TERR ESCALONADO | 1.084 | 20.26 | 53.0 | | | | |
| 140.000 | SANEO | 13.620 | 324.17 | 1192.7 | REVEST DESMON | 0.000 | 0.80 | 26.9 |
| | ADECUADO COR | 1.668 | 35.17 | 160.8 | TERRAPLEN | 9.269 | 293.82 | 1075.5 |
| | REV EXT TERR | 0.830 | 13.84 | 38.9 | EXC ESCALONADO | 0.893 | 19.07 | 72.1 |
| | TERR ESCALONADO | 0.893 | 19.07 | 72.1 | | | | |
| 160.000 | SANEO | 13.397 | 286.01 | 1478.7 | REVEST DESMON | 0.000 | 1.12 | 28.0 |
| | ADECUADO COR | 1.642 | 34.33 | 195.2 | TERRAPLEN | 11.000 | 220.18 | 1295.7 |
| | REV EXT TERR | 0.116 | 5.17 | 44.0 | EXC ESCALONADO | 0.000 | 8.73 | 80.8 |
| | TERR ESCALONADO | 0.000 | 8.73 | 80.8 | | | | |
| 180.000 | SANEO | 15.820 | 282.18 | 1760.9 | REVEST DESMON | 0.242 | 1.40 | 29.4 |
| | ADECUADO COR | 1.767 | 33.49 | 228.6 | TERRAPLEN | 8.181 | 195.42 | 1491.1 |
| | REV EXT TERR | 0.000 | 0.60 | 44.6 | EXC ESCALONADO | 0.535 | 2.73 | 83.6 |
| | TERR ESCALONADO | 0.535 | 2.73 | 83.6 | | | | |
| 200.000 | SANEO | 13.703 | 289.41 | 2050.3 | REVEST DESMON | 0.000 | 1.21 | 30.6 |
| | ADECUADO COR | 1.675 | 34.40 | 263.0 | TERRAPLEN | 11.442 | 220.54 | 1711.7 |
| | REV EXT TERR | 0.146 | 2.64 | 47.3 | EXC ESCALONADO | 0.294 | 7.24 | 90.8 |
| | TERR ESCALONADO | 0.294 | 7.24 | 90.8 | | | | |
| 220.000 | SANEO | 14.559 | 307.59 | 2357.9 | REVEST DESMON | 0.268 | 3.52 | 34.1 |
| | ADECUADO COR | 1.842 | 36.52 | 299.6 | TERRAPLEN | 12.550 | 253.64 | 1965.3 |
| | REV EXT TERR | 0.312 | 4.44 | 51.7 | EXC ESCALONADO | 0.498 | 9.86 | 100.7 |
| | TERR ESCALONADO | 0.498 | 9.86 | 100.7 | | | | |
| 240.000 | SANEO | 15.168 | 302.88 | 2660.8 | REVEST DESMON | 0.000 | 0.30 | 34.4 |
| | ADECUADO COR | 1.741 | 36.05 | 335.6 | TERRAPLEN | 15.513 | 336.09 | 2301.4 |
| | REV EXT TERR | 0.541 | 10.67 | 62.4 | EXC ESCALONADO | 0.759 | 12.03 | 112.7 |
| | TERR ESCALONADO | 0.759 | 12.03 | 112.7 | | | | |
| 260.000 | SANEO | 14.105 | 304.54 | 2965.3 | REVEST DESMON | 0.029 | 0.85 | 35.3 |
| | ADECUADO COR | 1.703 | 35.51 | 371.1 | TERRAPLEN | 10.111 | 264.66 | 2566.1 |
| | REV EXT TERR | 0.070 | 5.87 | 68.3 | EXC ESCALONADO | 0.264 | 10.14 | 122.8 |
| | TERR ESCALONADO | 0.264 | 10.14 | 122.8 | | | | |
| 280.000 | SANEO | 14.404 | 290.12 | 3255.4 | REVEST DESMON | 0.086 | 1.09 | 36.3 |
| | ADECUADO COR | 1.717 | 34.67 | 405.8 | TERRAPLEN | 9.677 | 201.64 | 2767.7 |
| | REV EXT TERR | 0.099 | 0.57 | 68.8 | EXC ESCALONADO | 0.248 | 1.81 | 124.6 |
| | TERR ESCALONADO | 0.248 | 1.81 | 124.6 | | | | |
| 300.000 | SANEO | 0.000 | 229.05 | 3484.5 | D TIERRA | 3.241 | 16.20 | 90.6 |
| | REVEST DESMON | 0.210 | 3.01 | 39.3 | ADECUADO COR | 1.795 | 35.87 | 441.7 |
| | TERRAPLEN | 0.000 | 163.60 | 2931.3 | REV EXT TERR | 0.144 | 2.87 | 71.7 |
| | EXC ESCALONADO | 0.000 | 6.87 | 131.5 | TERR ESCALONADO | 0.000 | 6.87 | 131.5 |
| 320.000 | D TIERRA | 4.651 | 77.15 | 167.7 | REVEST DESMON | 0.285 | 5.02 | 44.4 |
| | ADECUADO COR | 1.735 | 35.50 | 477.2 | REV EXT TERR | 0.085 | 2.40 | 74.1 |
| 324.426 | D TIERRA | 4.712 | 20.72 | 188.4 | REVEST DESMON | 0.294 | 1.28 | 45.6 |
| | ADECUADO COR | 1.723 | 7.65 | 484.8 | REV EXT TERR | 0.075 | 0.35 | 74.5 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 54 : CE 5.4 CD (F4-54.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 3484.5 |
| D TIERRA | 188.4 |
| REVEST DESMON | 45.6 |
| ADECUADO COR | 484.8 |
| VEGETAL | 5.4 |
| TERRAPLEN | 2931.3 |
| REV EXT TERR | 74.5 |
| EXC ESCALONADO | 131.5 |
| TERR ESCALONADO | 131.5 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 55 : CE 5.4 CI (F4-55.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 11.365 | 0.00 | 0.0 | REVEST DESMON | 0.143 | 0.00 | 0.0 |
| | ADECUADO COR | 4.710 | 0.00 | 0.0 | REV EXT TERR | 0.066 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 5.275 | 162.14 | 162.1 | REVEST DESMON | 0.195 | 6.87 | 6.9 |
| | ADECUADO COR | 1.767 | 38.56 | 38.6 | REV EXT TERR | 0.000 | 0.05 | 0.1 |
| 40.000 | D TIERRA | 3.332 | 76.23 | 238.4 | REVEST DESMON | 0.000 | 0.86 | 7.7 |
| | ADECUADO COR | 1.655 | 33.84 | 72.4 | REV EXT TERR | 0.019 | 0.27 | 0.3 |
| 60.000 | D TIERRA | 20.614 | 119.10 | 357.5 | REVEST DESMON | 1.106 | 4.63 | 12.4 |
| | ADECUADO COR | 1.767 | 34.54 | 106.9 | REV EXT TERR | 0.000 | 0.07 | 0.4 |
| 80.000 | D TIERRA | 2.446 | 356.57 | 714.0 | REVEST DESMON | 0.000 | 18.28 | 30.7 |
| | ADECUADO COR | 1.631 | 34.90 | 141.8 | REV EXT TERR | 0.107 | 0.41 | 0.8 |
| 100.000 | D TIERRA | 2.416 | 46.80 | 760.8 | ADECUADO COR | 1.634 | 33.01 | 174.8 |
| | REV EXT TERR | 0.110 | 2.45 | 3.3 | | | | |
| 120.000 | D TIERRA | 2.618 | 49.28 | 810.1 | ADECUADO COR | 1.586 | 32.50 | 207.3 |
| | REV EXT TERR | 0.071 | 2.05 | 5.3 | | | | |
| 140.000 | D TIERRA | 3.486 | 61.22 | 871.3 | REVEST DESMON | 0.019 | 0.08 | 30.7 |
| | ADECUADO COR | 1.656 | 32.52 | 239.9 | REV EXT TERR | 0.021 | 0.84 | 6.1 |
| 160.000 | D TIERRA | 1.415 | 47.28 | 918.6 | REVEST DESMON | 0.000 | 0.13 | 30.9 |
| | ADECUADO COR | 1.816 | 34.30 | 274.2 | REV EXT TERR | 0.264 | 2.86 | 9.0 |
| 180.000 | D TIERRA | 2.244 | 37.26 | 955.9 | ADECUADO COR | 1.673 | 34.89 | 309.1 |
| | REV EXT TERR | 0.141 | 4.01 | 13.0 | | | | |
| 200.000 | D TIERRA | 3.333 | 55.41 | 1011.3 | REVEST DESMON | 0.013 | 0.04 | 30.9 |
| | ADECUADO COR | 1.676 | 32.66 | 341.7 | REV EXT TERR | 0.037 | 1.49 | 14.5 |
| 217.187 | D TIERRA | 3.408 | 57.79 | 1069.1 | REVEST DESMON | 0.000 | 0.13 | 31.0 |
| | ADECUADO COR | 1.649 | 28.60 | 370.3 | REV EXT TERR | 0.015 | 0.46 | 15.0 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 55 : CE 5.4 CI (F4-55.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|---------------|---------|
| D TIERRA | 1069.1 |
| REVEST DESMON | 31.0 |
| ADECUADO COR | 370.3 |
| REV EXT TERR | 15.0 |

Istram 22.08.08.03 03/11/22 12:22:12 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 56 : CE 6.2 CI (F4-56.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 0.268 | 0.00 | 0.0 | ADECUADO COR | 0.267 | 0.00 | 0.0 |
| | VEGETAL | 0.529 | 0.00 | 0.0 | TERRAPLEN | 0.132 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 4.402 | 71.51 | 71.5 | REVEST DESMON | 0.074 | 1.43 | 1.4 |
| | ADECUADO COR | 1.653 | 40.04 | 40.0 | VEGETAL | 3.178 | 58.98 | 59.0 |
| | TERRAPLEN | 0.471 | 5.97 | 6.0 | REV EXT TERR | 0.020 | 0.28 | 0.3 |
| 40.000 | D TIERRA | 3.549 | 77.56 | 149.1 | REVEST DESMON | 0.121 | 1.71 | 3.1 |
| | ADECUADO COR | 2.023 | 36.87 | 76.9 | VEGETAL | 2.804 | 58.77 | 117.7 |
| | TERRAPLEN | 0.196 | 6.12 | 12.1 | REV EXT TERR | 0.000 | 0.12 | 0.4 |
| 60.000 | D TIERRA | 7.388 | 108.01 | 257.1 | REVEST DESMON | 0.380 | 4.93 | 8.1 |
| | ADECUADO COR | 2.023 | 40.45 | 117.4 | VEGETAL | 3.075 | 58.60 | 176.3 |
| | TERRAPLEN | 0.098 | 2.20 | 14.3 | | | | |
| 80.000 | D TIERRA | 3.823 | 94.96 | 352.0 | REVEST DESMON | 0.048 | 3.92 | 12.0 |
| | ADECUADO COR | 2.023 | 38.87 | 156.2 | VEGETAL | 2.505 | 60.86 | 237.2 |
| | TERRAPLEN | 0.106 | 34.66 | 48.9 | REV EXT TERR | 0.000 | 5.13 | 5.5 |
| 100.000 | EXC ESCALONADO | 0.000 | 7.86 | 7.9 | TERR ESCALONADO | 0.000 | 7.86 | 7.9 |
| | D TIERRA | 2.461 | 65.19 | 417.2 | REVEST DESMON | 0.038 | 1.95 | 13.9 |
| | ADECUADO COR | 2.023 | 38.92 | 195.2 | VEGETAL | 2.702 | 55.30 | 292.5 |
| | TERRAPLEN | 0.284 | 4.97 | 53.9 | REV EXT TERR | 0.000 | 0.03 | 5.6 |
| 120.000 | D TIERRA | 1.755 | 38.52 | 455.8 | REVEST DESMON | 0.000 | 0.08 | 14.0 |
| | ADECUADO COR | 1.549 | 31.30 | 226.5 | VEGETAL | 2.302 | 48.11 | 340.6 |
| | TERRAPLEN | 0.362 | 7.99 | 61.9 | REV EXT TERR | 0.041 | 0.33 | 5.9 |
| 140.000 | D TIERRA | 1.282 | 30.86 | 486.6 | ADECUADO COR | 1.591 | 31.17 | 257.6 |
| | VEGETAL | 2.291 | 45.69 | 386.3 | TERRAPLEN | 0.362 | 7.23 | 69.1 |
| | REV EXT TERR | 0.076 | 1.00 | 6.9 | | | | |
| 160.000 | D TIERRA | 1.100 | 21.78 | 508.4 | ADECUADO COR | 1.615 | 32.38 | 290.0 |
| | VEGETAL | 2.287 | 45.96 | 432.3 | TERRAPLEN | 0.362 | 7.24 | 76.4 |
| | REV EXT TERR | 0.094 | 1.96 | 8.8 | | | | |
| 180.000 | D TIERRA | 1.145 | 23.98 | 532.4 | ADECUADO COR | 1.602 | 31.91 | 321.9 |
| | VEGETAL | 2.263 | 45.35 | 477.6 | TERRAPLEN | 0.362 | 7.23 | 83.6 |
| | REV EXT TERR | 0.084 | 1.58 | 10.4 | | | | |
| 200.000 | D TIERRA | 1.011 | 20.94 | 553.3 | ADECUADO COR | 1.615 | 32.28 | 354.2 |
| | VEGETAL | 2.249 | 45.20 | 522.8 | TERRAPLEN | 0.362 | 7.24 | 90.8 |
| | REV EXT TERR | 0.094 | 1.87 | 12.3 | | | | |
| 220.000 | D TIERRA | 0.999 | 21.01 | 574.3 | ADECUADO COR | 1.612 | 32.15 | 386.4 |
| | VEGETAL | 2.237 | 44.72 | 567.5 | TERRAPLEN | 0.361 | 7.23 | 98.1 |
| | REV EXT TERR | 0.092 | 1.77 | 14.1 | | | | |
| 240.000 | D TIERRA | 0.637 | 17.31 | 591.6 | ADECUADO COR | 1.671 | 32.68 | 419.0 |
| | VEGETAL | 2.259 | 44.74 | 612.3 | TERRAPLEN | 0.362 | 7.24 | 105.3 |
| | REV EXT TERR | 0.139 | 2.19 | 16.3 | | | | |
| 260.000 | D TIERRA | 0.067 | 5.66 | 597.3 | ADECUADO COR | 1.861 | 35.05 | 454.1 |
| | VEGETAL | 2.486 | 47.09 | 659.4 | TERRAPLEN | 0.938 | 9.18 | 114.5 |
| | REV EXT TERR | 0.300 | 4.12 | 20.4 | EXC ESCALONADO | 0.058 | 0.31 | 8.2 |
| | TERR ESCALONADO | 0.058 | 0.31 | 8.2 | | | | |
| 280.000 | D TIERRA | 0.000 | 1.32 | 598.6 | ADECUADO COR | 1.869 | 38.25 | 492.3 |
| | VEGETAL | 2.774 | 53.26 | 712.6 | TERRAPLEN | 2.546 | 46.98 | 161.5 |
| | REV EXT TERR | 0.397 | 8.52 | 28.9 | EXC ESCALONADO | 0.225 | 3.06 | 11.2 |
| | TERR ESCALONADO | 0.225 | 3.06 | 11.2 | | | | |
| 300.000 | D TIERRA | 0.022 | 0.17 | 598.8 | ADECUADO COR | 1.785 | 36.96 | 529.3 |
| | VEGETAL | 2.634 | 54.55 | 767.2 | TERRAPLEN | 0.543 | 27.26 | 188.7 |
| | REV EXT TERR | 0.231 | 6.17 | 35.1 | EXC ESCALONADO | 0.011 | 1.29 | 12.5 |
| | TERR ESCALONADO | 0.011 | 1.29 | 12.5 | | | | |
| 320.000 | D TIERRA | 0.512 | 8.30 | 607.1 | ADECUADO COR | 1.690 | 34.14 | 563.4 |
| | VEGETAL | 2.527 | 51.00 | 818.2 | TERRAPLEN | 0.492 | 9.52 | 198.2 |
| | REV EXT TERR | 0.155 | 3.36 | 38.4 | EXC ESCALONADO | 0.000 | 0.02 | 12.5 |
| | TERR ESCALONADO | 0.000 | 0.02 | 12.5 | | | | |
| 340.000 | D TIERRA | 0.592 | 9.79 | 616.9 | ADECUADO COR | 1.676 | 33.87 | 597.3 |
| | VEGETAL | 2.537 | 50.73 | 868.9 | TERRAPLEN | 0.407 | 9.42 | 207.7 |
| | REV EXT TERR | 0.143 | 3.14 | 41.6 | | | | |
| 360.000 | D TIERRA | 1.138 | 20.59 | 637.5 | ADECUADO COR | 1.578 | 32.07 | 629.4 |
| | VEGETAL | 2.455 | 49.71 | 918.6 | TERRAPLEN | 0.362 | 7.31 | 215.0 |
| | REV EXT TERR | 0.065 | 1.71 | 43.3 | | | | |
| 380.000 | D TIERRA | 1.003 | 19.23 | 656.7 | ADECUADO COR | 1.602 | 32.19 | 661.6 |
| | VEGETAL | 2.446 | 49.20 | 967.8 | TERRAPLEN | 0.466 | 8.87 | 223.8 |
| | REV EXT TERR | 0.084 | 1.80 | 45.1 | | | | |
| 400.000 | D TIERRA | 1.701 | 32.94 | 689.6 | REVEST DESMON | 0.014 | 0.28 | 14.3 |
| | ADECUADO COR | 1.658 | 32.77 | 694.3 | VEGETAL | 2.795 | 54.59 | 1022.4 |
| | TERRAPLEN | 0.545 | 9.93 | 233.8 | REV EXT TERR | 0.022 | 0.51 | 45.6 |
| 420.000 | D TIERRA | 0.000 | 18.37 | 708.0 | REVEST DESMON | 0.000 | 0.59 | 14.9 |
| | ADECUADO COR | 0.000 | 16.63 | 711.0 | VEGETAL | 0.000 | 24.70 | 1047.1 |
| | TERRAPLEN | 0.000 | 3.62 | 237.4 | REV EXT TERR | 0.000 | 0.26 | 45.9 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 56 : CE 6.2 CI (F4-56.vol)

Istram 22.08.08.03 03/11/22 12:22:13 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 57 : CE 7.4 CD (F4-57.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 708.0 |
| REVEST DESMON | 14.9 |
| ADECUADO COR | 711.0 |
| VEGETAL | 1047.1 |
| TERRAPLEN | 237.4 |
| REV EXT TERR | 45.9 |
| EXC ESCALONADO | 12.5 |
| TERR ESCALONADO | 12.5 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 0.669 | 0.00 | 0.0 | ADECUADO COR | 0.267 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 2.198 | 49.60 | 49.6 | REVEST DESMON | 0.000 | 0.01 | 0.0 |
| | ADECUADO COR | 1.541 | 34.42 | 34.4 | VEGETAL | 2.176 | 40.96 | 41.0 |
| | TERRAPLEN | 0.282 | 5.24 | 5.2 | REV EXT TERR | 0.036 | 1.26 | 1.3 |
| 40.000 | D TIERRA | 2.618 | 44.75 | 94.3 | ADECUADO COR | 1.657 | 31.60 | 66.0 |
| | VEGETAL | 2.413 | 44.83 | 85.8 | TERRAPLEN | 0.339 | 5.93 | 11.2 |
| | REV EXT TERR | 0.021 | 0.78 | 2.0 | | | | |
| 60.000 | D TIERRA | 1.974 | 45.24 | 139.6 | ADECUADO COR | 1.586 | 31.71 | 97.7 |
| | VEGETAL | 2.209 | 45.01 | 130.8 | TERRAPLEN | 0.283 | 5.93 | 17.1 |
| | REV EXT TERR | 0.072 | 0.89 | 2.9 | | | | |
| 80.000 | D TIERRA | 1.168 | 32.43 | 172.0 | ADECUADO COR | 1.726 | 32.78 | 130.5 |
| | VEGETAL | 2.306 | 44.87 | 175.7 | TERRAPLEN | 0.283 | 5.65 | 22.8 |
| | REV EXT TERR | 0.183 | 2.28 | 5.2 | | | | |
| 100.000 | D TIERRA | 1.306 | 24.13 | 196.1 | ADECUADO COR | 1.653 | 33.79 | 164.3 |
| | VEGETAL | 2.230 | 45.34 | 221.0 | TERRAPLEN | 0.282 | 6.20 | 29.0 |
| | REV EXT TERR | 0.125 | 3.11 | 8.3 | | | | |
| 120.000 | D TIERRA | 1.357 | 26.39 | 222.5 | ADECUADO COR | 1.676 | 33.39 | 197.7 |
| | VEGETAL | 2.274 | 45.17 | 266.2 | TERRAPLEN | 0.283 | 5.65 | 34.6 |
| | REV EXT TERR | 0.144 | 2.76 | 11.1 | | | | |
| 140.000 | D TIERRA | 1.766 | 31.74 | 254.3 | ADECUADO COR | 1.626 | 32.97 | 230.7 |
| | VEGETAL | 2.245 | 45.17 | 311.3 | TERRAPLEN | 0.283 | 5.65 | 40.3 |
| | REV EXT TERR | 0.103 | 2.42 | 13.5 | | | | |
| 160.000 | D TIERRA | 1.745 | 36.19 | 290.5 | ADECUADO COR | 1.630 | 32.40 | 263.1 |
| | VEGETAL | 2.250 | 44.85 | 356.2 | TERRAPLEN | 0.283 | 5.65 | 45.9 |
| | REV EXT TERR | 0.107 | 1.97 | 15.5 | | | | |
| 180.000 | D TIERRA | 1.800 | 39.00 | 329.5 | ADECUADO COR | 1.629 | 32.15 | 295.2 |
| | VEGETAL | 2.255 | 44.81 | 401.0 | TERRAPLEN | 0.283 | 5.65 | 51.6 |
| | REV EXT TERR | 0.106 | 1.77 | 17.3 | | | | |
| 200.000 | D TIERRA | 1.533 | 32.59 | 362.1 | ADECUADO COR | 1.683 | 33.20 | 328.4 |
| | VEGETAL | 2.302 | 45.61 | 446.6 | TERRAPLEN | 0.283 | 5.66 | 57.2 |
| | REV EXT TERR | 0.149 | 2.61 | 19.9 | | | | |
| 220.000 | D TIERRA | 1.023 | 24.36 | 386.4 | ADECUADO COR | 1.747 | 34.35 | 362.8 |
| | VEGETAL | 2.239 | 44.81 | 491.4 | TERRAPLEN | 0.283 | 5.66 | 62.9 |
| | REV EXT TERR | 0.201 | 3.53 | 23.4 | | | | |
| 240.000 | D TIERRA | 0.989 | 20.03 | 406.4 | ADECUADO COR | 1.772 | 35.28 | 398.0 |
| | VEGETAL | 2.286 | 45.31 | 536.7 | TERRAPLEN | 0.297 | 5.70 | 68.6 |
| | REV EXT TERR | 0.222 | 4.30 | 27.7 | EXC ESCALONADO | 0.008 | 0.02 | 0.0 |
| | TERR ESCALONADO | 0.008 | 0.02 | 0.0 | | | | |
| 260.000 | D TIERRA | 2.179 | 56.40 | 462.8 | ADECUADO COR | 1.677 | 33.36 | 431.4 |
| | VEGETAL | 2.109 | 24.71 | 561.4 | TERRAPLEN | 0.282 | 2.21 | 70.8 |
| | REV EXT TERR | 0.144 | 2.75 | 30.4 | EXC ESCALONADO | 0.000 | 0.04 | 0.1 |
| | TERR ESCALONADO | 0.000 | 0.04 | 0.1 | | | | |
| 280.000 | D TIERRA | 1.916 | 40.94 | 503.8 | ADECUADO COR | 1.682 | 33.52 | 464.9 |
| | VEGETAL | 2.245 | 44.24 | 605.7 | TERRAPLEN | 0.283 | 5.65 | 76.5 |
| | REV EXT TERR | 0.148 | 2.87 | 33.3 | | | | |
| 300.000 | D TIERRA | 1.619 | 35.25 | 539.0 | ADECUADO COR | 1.701 | 33.83 | 498.8 |
| | VEGETAL | 2.239 | 44.84 | 650.5 | TERRAPLEN | 0.283 | 5.66 | 82.1 |
| | REV EXT TERR | 0.163 | 3.11 | 36.4 | | | | |
| 320.000 | D TIERRA | 1.486 | 31.46 | 570.5 | ADECUADO COR | 1.683 | 33.80 | 532.6 |
| | VEGETAL | 2.193 | 44.32 | 694.8 | TERRAPLEN | 0.283 | 5.66 | 87.8 |
| | REV EXT TERR | 0.149 | 3.09 | 39.5 | | | | |
| 340.000 | D TIERRA | 1.384 | 28.68 | 599.2 | ADECUADO COR | 1.671 | 33.51 | 566.1 |
| | VEGETAL | 2.161 | 43.50 | 738.3 | TERRAPLEN | 0.283 | 5.66 | 93.4 |
| | REV EXT TERR | 0.139 | 2.86 | 42.4 | | | | |
| 360.000 | D TIERRA | 2.280 | 37.38 | 636.6 | ADECUADO COR | 1.548 | 32.07 | 598.1 |
| | VEGETAL | 2.092 | 42.44 | 780.8 | TERRAPLEN | 0.282 | 5.65 | 99.1 |
| | REV EXT TERR | 0.041 | 1.71 | 44.1 | | | | |
| 380.000 | D TIERRA | 1.053 | 32.12 | 668.7 | ADECUADO COR | 1.727 | 32.84 | 631.0 |
| | VEGETAL | 2.208 | 42.96 | 823.7 | TERRAPLEN | 0.283 | 5.66 | 104.7 |
| | REV EXT TERR | 0.184 | 2.31 | 46.4 | | | | |
| 400.000 | D TIERRA | 0.839 | 15.93 | 684.6 | ADECUADO COR | 1.768 | 35.43 | 666.4 |
| | VEGETAL | 2.249 | 43.77 | 867.5 | TERRAPLEN | 0.283 | 5.82 | 110.6 |
| | REV EXT TERR | 0.218 | 4.43 | 50.8 | EXC ESCALONADO | 0.000 | 0.04 | 0.1 |
| | TERR ESCALONADO | 0.000 | 0.04 | 0.1 | | | | |
| 420.000 | D TIERRA | 1.141 | 20.63 | 705.2 | ADECUADO COR | 1.743 | 35.19 | 701.6 |
| | VEGETAL | 2.152 | 42.91 | 910.4 | TERRAPLEN | 0.282 | 5.65 | 116.2 |
| | REV EXT TERR | 0.198 | 4.23 | 55.1 | | | | |
| 440.000 | D TIERRA | 7.142 | 108.13 | 813.4 | REVEST DESMON | 0.396 | 1.98 | 2.0 |
| | ADECUADO COR | 1.767 | 34.18 | 735.8 | VEGETAL | 0.777 | 22.48 | 932.9 |
| | TERRAPLEN | 0.069 | 3.36 | 119.6 | REV EXT TERR | 0.000 | 1.28 | 56.3 |
| 460.000 | D TIERRA | 2.774 | 94.56 | 907.9 | REVEST DESMON | 0.000 | 3.33 | 5.3 |
| | ADECUADO COR | 1.682 | 34.91 | 770.7 | VEGETAL | 2.363 | 34.33 | 967.2 |
| | TERRAPLEN | 0.286 | 2.55 | 122.1 | REV EXT TERR | 0.135 | 0.67 | 57.0 |
| 480.000 | D TIERRA | 2.280 | 42.43 | 950.4 | ADECUADO COR | 1.636 | 33.70 | 804.4 |
| | VEGETAL | 2.220 | 45.61 | 1012.8 | TERRAPLEN | 0.283 | 5.67 | 127.8 |
| | REV EXT TERR | 0.111 | 2.93 | 59.9 | | | | |

Istram 22.08.08.03 03/11/22 12:22:13 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 57 : CE 7.4 CD (F4-57.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 500.000 | D TIERRA | 1.602 | 37.68 | 988.0 | ADECUADO COR | 1.739 | 33.91 | 838.3 |
| | VEGETAL | 2.301 | 45.29 | 1058.1 | TERRAPLEN | 0.283 | 5.66 | 133.5 |
| | REV EXT TERR | 0.194 | 3.17 | 63.1 | | | | |
| 520.000 | D TIERRA | 1.582 | 30.67 | 1018.7 | ADECUADO COR | 1.744 | 35.02 | 873.3 |
| | VEGETAL | 2.304 | 46.18 | 1104.3 | TERRAPLEN | 0.283 | 5.66 | 139.1 |
| | REV EXT TERR | 0.199 | 4.09 | 67.2 | | | | |
| 540.000 | D TIERRA | 2.017 | 36.96 | 1055.7 | ADECUADO COR | 1.689 | 34.24 | 907.5 |
| | VEGETAL | 2.268 | 45.68 | 1150.0 | TERRAPLEN | 0.283 | 5.66 | 144.8 |
| | REV EXT TERR | 0.153 | 3.45 | 70.6 | | | | |
| 560.000 | D TIERRA | 1.956 | 40.66 | 1096.3 | ADECUADO COR | 1.690 | 33.64 | 941.2 |
| | VEGETAL | 2.221 | 44.99 | 1195.0 | TERRAPLEN | 0.283 | 5.66 | 150.4 |
| | REV EXT TERR | 0.155 | 2.97 | 73.6 | | | | |
| 580.000 | D TIERRA | 1.470 | 33.41 | 1129.7 | ADECUADO COR | 1.736 | 34.39 | 975.6 |
| | VEGETAL | 2.276 | 44.85 | 1239.8 | TERRAPLEN | 0.283 | 5.66 | 156.1 |
| | REV EXT TERR | 0.192 | 3.57 | 77.2 | | | | |
| 600.000 | D TIERRA | 1.097 | 25.78 | 1155.5 | ADECUADO COR | 1.764 | 35.01 | 1010.6 |
| | VEGETAL | 2.284 | 45.62 | 1285.4 | TERRAPLEN | 0.297 | 5.73 | 161.8 |
| | REV EXT TERR | 0.215 | 4.09 | 81.3 | | | | |
| 620.000 | D TIERRA | 2.891 | 38.86 | 1194.4 | ADECUADO COR | 1.621 | 33.66 | 1044.2 |
| | VEGETAL | 2.272 | 45.24 | 1330.7 | TERRAPLEN | 0.287 | 5.75 | 167.6 |
| | REV EXT TERR | 0.099 | 2.98 | 84.3 | | | | |
| 640.000 | D TIERRA | 2.590 | 55.13 | 1249.5 | ADECUADO COR | 1.691 | 32.97 | 1077.2 |
| | VEGETAL | 2.341 | 45.91 | 1376.6 | TERRAPLEN | 0.288 | 5.74 | 173.3 |
| | REV EXT TERR | 0.155 | 2.43 | 86.7 | | | | |
| 660.000 | D TIERRA | 2.254 | 51.20 | 1300.7 | ADECUADO COR | 1.729 | 34.28 | 1111.5 |
| | VEGETAL | 2.408 | 47.56 | 1424.1 | TERRAPLEN | 0.499 | 6.78 | 180.1 |
| | REV EXT TERR | 0.176 | 3.49 | 90.2 | EXC ESCALONADO | 0.058 | 0.28 | 0.4 |
| | TERR ESCALONADO | 0.058 | 0.28 | 0.4 | | | | |
| 680.000 | D TIERRA | 3.956 | 56.75 | 1357.5 | ADECUADO COR | 1.651 | 33.48 | 1145.0 |
| | VEGETAL | 2.433 | 46.80 | 1470.9 | TERRAPLEN | 0.333 | 7.49 | 187.6 |
| | REV EXT TERR | 0.017 | 2.44 | 92.6 | EXC ESCALONADO | 0.000 | 0.48 | 0.9 |
| | TERR ESCALONADO | 0.000 | 0.48 | 0.9 | | | | |
| 691.469 | D TIERRA | 0.666 | 48.94 | 1406.4 | ADECUADO COR | 0.267 | 20.51 | 1165.5 |
| | VEGETAL | 0.000 | 15.07 | 1486.0 | TERRAPLEN | 0.000 | 2.08 | 189.7 |
| | REV EXT TERR | 0.000 | 0.84 | 93.4 | | | | |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 57 : CE 7.4 CD (F4-57.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 1406.4 |
| REVEST DESMON | 5.3 |
| ADECUADO COR | 1165.5 |
| VEGETAL | 1486.0 |
| TERRAPLEN | 189.7 |
| REV EXT TERR | 93.4 |
| EXC ESCALONADO | 0.9 |
| TERR ESCALONADO | 0.9 |

Istram 22.08.08.03 03/11/22 12:22:13 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 58 : C ACCESO (PI 3.7) (F4-58.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | SANEO | 1.263 | 0.00 | 0.0 | D TIERRA | 1.234 | 0.00 | 0.0 |
| | ADECUADO COR | 0.867 | 0.00 | 0.0 | TERRAPLEN | 0.141 | 0.00 | 0.0 |
| 20.000 | SANEO | 0.000 | 51.77 | 51.8 | D TIERRA | 0.000 | 251.48 | 251.5 |
| | ADECUADO COR | 0.000 | 36.15 | 36.2 | VEGETAL | 0.000 | 6.70 | 6.7 |
| | TERRAPLEN | 0.000 | 1.36 | 1.4 | | | | |
| 40.000 | SANEO | 0.354 | 2.70 | 54.5 | D TIERRA | 1.871 | 14.89 | 266.4 |
| | ADECUADO COR | 2.125 | 14.86 | 51.0 | VEGETAL | 1.773 | 13.50 | 20.2 |
| | TERRAPLEN | 0.002 | 0.60 | 2.0 | REV EXT TERR | 0.018 | 0.04 | 0.0 |
| 52.738 | SANEO | 0.143 | 6.89 | 61.4 | D TIERRA | 0.040 | 16.27 | 282.6 |
| | ADECUADO COR | 0.854 | 41.30 | 92.3 | VEGETAL | 0.714 | 34.44 | 54.6 |
| | TERRAPLEN | 0.003 | 0.04 | 2.0 | REV EXT TERR | 0.206 | 1.31 | 1.4 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 58 : C ACCESO (PI 3.7) (F4-58.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|--------------|---------|
| SANEO | 61.4 |
| D TIERRA | 282.6 |
| ADECUADO COR | 92.3 |
| VEGETAL | 54.6 |
| TERRAPLEN | 2.0 |
| REV EXT TERR | 1.4 |

Istram 22.08.08.03 03/11/22 12:22:14 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 59 : C ACCESO (PI 4.5) (F4-59.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|----------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 2.884 | 0.00 | 0.0 | ADECUADO COR | 4.549 | 0.00 | 0.0 |
| | VEGETAL | 4.556 | 0.00 | 0.0 | TERRAPLEN | 0.001 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 0.000 | 29.26 | 29.3 | ADECUADO COR | 0.000 | 16.11 | 16.1 |
| | VEGETAL | 0.000 | 21.32 | 21.3 | | | | |
| 40.000 | D TIERRA | 0.836 | 5.19 | 34.5 | ADECUADO COR | 1.574 | 6.95 | 23.1 |
| | VEGETAL | 1.578 | 6.97 | 28.3 | TERRAPLEN | 0.002 | 0.01 | 0.0 |
| 54.639 | D TIERRA | 0.002 | 3.08 | 37.5 | ADECUADO COR | 4.800 | 28.61 | 51.7 |
| | VEGETAL | 4.805 | 28.67 | 57.0 | TERRAPLEN | 1.589 | 3.83 | 3.8 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 59 : C ACCESO (PI 4.5) (F4-59.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 37.5 |
| ADECUADO COR | 51.7 |
| VEGETAL | 57.0 |
| TERRAPLEN | 3.8 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 60 : PI 7.6 (Camino) (F4-60.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|----------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 6.476 | 0.00 | 0.0 | ADECUADO COR | 4.767 | 0.00 | 0.0 |
| | VEGETAL | 5.152 | 0.00 | 0.0 | TERRAPLEN | 0.136 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 23.932 | 292.09 | 292.1 | ADECUADO COR | 1.497 | 35.83 | 35.8 |
| | VEGETAL | 0.000 | 48.01 | 48.0 | TERRAPLEN | 0.000 | 1.86 | 1.9 |
| 40.000 | D TIERRA | 0.695 | 63.20 | 355.3 | ADECUADO COR | 1.652 | 30.27 | 66.1 |
| | VEGETAL | 1.655 | 29.58 | 77.6 | TERRAPLEN | 0.002 | 0.02 | 1.9 |
| 55.291 | D TIERRA | 2.088 | 14.75 | 370.0 | ADECUADO COR | 4.649 | 28.06 | 94.2 |
| | VEGETAL | 4.652 | 28.11 | 105.7 | TERRAPLEN | 0.002 | 0.03 | 1.9 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 60 : PI 7.6 (Camino) (F4-60.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 370.0 |
| ADECUADO COR | 94.2 |
| VEGETAL | 105.7 |
| TERRAPLEN | 1.9 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 61 : CE 6.2 CD (F4-61.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | SANEO | 14.083 | 0.00 | 0.0 | REVEST DESMON | 0.024 | 0.00 | 0.0 |
| | ADECUADO COR | 4.653 | 0.00 | 0.0 | TERRAPLEN | 4.271 | 0.00 | 0.0 |
| | REV EXT TERR | 0.018 | 0.00 | 0.0 | EXC ESCALONADO | 0.013 | 0.00 | 0.0 |
| | TERR ESCALONADO | 0.013 | 0.00 | 0.0 | | | | |
| 20.000 | SANEO | 0.000 | 29.88 | 29.9 | D TIERRA | 1.550 | 37.10 | 37.1 |
| | REVEST DESMON | 0.000 | 1.01 | 1.0 | ADECUADO COR | 1.538 | 37.22 | 37.2 |
| | VEGETAL | 1.284 | 29.06 | 29.1 | TERRAPLEN | 0.001 | 8.24 | 8.2 |
| | REV EXT TERR | 0.034 | 0.19 | 0.2 | EXC ESCALONADO | 0.000 | 0.02 | 0.0 |
| | TERR ESCALONADO | 0.000 | 0.02 | 0.0 | | | | |
| 40.000 | D TIERRA | 0.828 | 22.38 | 59.5 | ADECUADO COR | 1.677 | 32.46 | 69.7 |
| | VEGETAL | 1.400 | 27.10 | 56.2 | TERRAPLEN | 0.002 | 0.03 | 8.3 |
| | REV EXT TERR | 0.144 | 2.02 | 2.2 | | | | |
| 60.000 | D TIERRA | 0.836 | 16.35 | 75.8 | ADECUADO COR | 1.676 | 33.58 | 103.3 |
| | VEGETAL | 1.399 | 28.04 | 84.2 | TERRAPLEN | 0.002 | 0.03 | 8.3 |
| | REV EXT TERR | 0.143 | 2.92 | 5.1 | | | | |
| 80.000 | D TIERRA | 0.684 | 15.66 | 91.5 | ADECUADO COR | 1.702 | 33.70 | 137.0 |
| | VEGETAL | 1.421 | 28.14 | 112.3 | TERRAPLEN | 0.002 | 0.03 | 8.3 |
| | REV EXT TERR | 0.164 | 3.01 | 8.1 | | | | |
| 100.000 | D TIERRA | 0.380 | 10.83 | 102.3 | ADECUADO COR | 1.751 | 34.51 | 171.5 |
| | VEGETAL | 1.463 | 28.81 | 141.2 | TERRAPLEN | 0.002 | 0.04 | 8.4 |
| | REV EXT TERR | 0.204 | 3.67 | 11.8 | | | | |
| 120.000 | SANEO | 0.825 | 7.25 | 37.1 | D TIERRA | 0.577 | 9.19 | 111.5 |
| | REVEST DESMON | 0.029 | 0.08 | 1.1 | ADECUADO COR | 1.503 | 33.43 | 204.9 |
| | VEGETAL | 1.069 | 26.00 | 167.2 | TERRAPLEN | 0.045 | 0.25 | 8.6 |
| | REV EXT TERR | 0.087 | 3.01 | 14.8 | EXC ESCALONADO | 0.049 | 0.24 | 0.3 |
| | TERR ESCALONADO | 0.049 | 0.24 | 0.3 | | | | |
| 134.573 | SANEO | 2.453 | 30.09 | 67.2 | D TIERRA | 0.000 | 2.89 | 114.4 |
| | REVEST DESMON | 0.000 | 0.14 | 1.2 | ADECUADO COR | 0.841 | 16.77 | 221.7 |
| | VEGETAL | 0.045 | 5.88 | 173.0 | TERRAPLEN | 0.817 | 8.86 | 17.5 |
| | REV EXT TERR | 1.273 | 3.69 | 18.5 | EXC ESCALONADO | 0.239 | 3.65 | 3.9 |
| | TERR ESCALONADO | 0.239 | 3.65 | 3.9 | | | | |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 61 : CE 6.2 CD (F4-61.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEO | 67.2 |
| D TIERRA | 114.4 |
| REVEST DESMON | 1.2 |
| ADECUADO COR | 221.7 |
| VEGETAL | 173.0 |
| TERRAPLEN | 17.5 |
| REV EXT TERR | 18.5 |
| EXC ESCALONADO | 3.9 |
| TERR ESCALONADO | 3.9 |

Istram 22.08.08.03 03/11/22 12:22:14 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 62 : CE 7.4 CI (F4-62.vol)

Istram 22.08.08.03 03/11/22 12:22:15 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 62 : CE 7.4 CI (F4-62.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

***** RESUMEN DE VOLUMENES TOTALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 0.705 | 0.00 | 0.0 | ADECUADO COR | 0.267 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 1.149 | 69.27 | 69.3 | REVEST DESMON | 0.000 | 0.12 | 0.1 |
| | ADECUADO COR | 1.796 | 40.95 | 41.0 | REV EXT TERR | 0.283 | 2.57 | 2.6 |
| 40.000 | D TIERRA | 1.439 | 29.25 | 98.5 | ADECUADO COR | 1.761 | 35.31 | 76.3 |
| | REV EXT TERR | 0.251 | 5.03 | 7.6 | | | | |
| 60.000 | D TIERRA | 1.206 | 26.18 | 124.7 | ADECUADO COR | 1.756 | 35.25 | 111.5 |
| | REV EXT TERR | 0.259 | 5.15 | 12.8 | | | | |
| 80.000 | D TIERRA | 2.271 | 28.92 | 153.6 | ADECUADO COR | 1.658 | 34.54 | 146.1 |
| | REV EXT TERR | 0.152 | 4.50 | 17.3 | | | | |
| 100.000 | D TIERRA | 3.490 | 66.55 | 220.2 | REVEST DESMON | 0.000 | 0.56 | 0.7 |
| | ADECUADO COR | 1.568 | 33.86 | 179.9 | REV EXT TERR | 0.079 | 1.57 | 18.8 |
| 120.000 | D TIERRA | 3.374 | 68.67 | 288.8 | ADECUADO COR | 1.594 | 31.65 | 211.6 |
| | REV EXT TERR | 0.120 | 2.16 | 21.0 | | | | |
| 140.000 | D TIERRA | 3.433 | 67.39 | 356.2 | ADECUADO COR | 1.696 | 33.18 | 244.7 |
| | REV EXT TERR | 0.202 | 3.46 | 24.4 | | | | |
| 160.000 | D TIERRA | 3.108 | 65.60 | 421.8 | ADECUADO COR | 1.754 | 34.57 | 279.3 |
| | REV EXT TERR | 0.249 | 4.51 | 29.0 | | | | |
| 180.000 | D TIERRA | 3.427 | 66.29 | 488.1 | ADECUADO COR | 1.796 | 35.40 | 314.7 |
| | REV EXT TERR | 0.295 | 5.37 | 34.3 | | | | |
| 200.000 | D TIERRA | 3.372 | 63.03 | 551.2 | ADECUADO COR | 1.791 | 36.38 | 351.1 |
| | REV EXT TERR | 0.300 | 6.40 | 40.7 | | | | |
| 220.000 | D TIERRA | 2.832 | 64.23 | 615.4 | ADECUADO COR | 1.701 | 34.69 | 385.8 |
| | TERRAPLEN | 0.045 | 0.11 | 0.1 | REV EXT TERR | 0.298 | 5.63 | 46.4 |
| | EXC ESCALONADO | 0.039 | 0.10 | 0.1 | TERR ESCALONADO | 0.039 | 0.10 | 0.1 |
| 240.000 | D TIERRA | 2.243 | 62.55 | 677.9 | ADECUADO COR | 1.696 | 33.96 | 419.7 |
| | TERRAPLEN | 0.267 | 3.03 | 3.1 | REV EXT TERR | 0.289 | 5.45 | 51.8 |
| | EXC ESCALONADO | 0.099 | 1.45 | 1.5 | TERR ESCALONADO | 0.099 | 1.45 | 1.5 |
| 260.000 | D TIERRA | 0.934 | 41.26 | 719.2 | ADECUADO COR | 1.789 | 34.88 | 454.6 |
| | TERRAPLEN | 0.006 | 5.51 | 8.7 | REV EXT TERR | 0.332 | 7.19 | 59.0 |
| | EXC ESCALONADO | 0.000 | 1.85 | 3.4 | TERR ESCALONADO | 0.000 | 1.85 | 3.4 |
| 280.000 | D TIERRA | 3.602 | 50.20 | 769.4 | ADECUADO COR | 1.733 | 34.90 | 489.5 |
| | TERRAPLEN | 0.000 | 0.01 | 8.7 | REV EXT TERR | 0.257 | 5.24 | 64.2 |
| 300.000 | D TIERRA | 3.440 | 72.62 | 842.0 | ADECUADO COR | 1.675 | 34.84 | 524.4 |
| | REV EXT TERR | 0.155 | 4.20 | 68.4 | | | | |
| 320.000 | D TIERRA | 3.959 | 59.40 | 901.4 | ADECUADO COR | 1.597 | 33.87 | 558.2 |
| | REV EXT TERR | 0.126 | 4.45 | 72.9 | | | | |
| 340.000 | D TIERRA | 3.911 | 84.11 | 985.5 | ADECUADO COR | 1.625 | 31.51 | 589.7 |
| | REV EXT TERR | 0.150 | 2.16 | 75.1 | | | | |
| 360.000 | D TIERRA | 4.218 | 81.02 | 1066.5 | ADECUADO COR | 1.615 | 32.76 | 622.5 |
| | REV EXT TERR | 0.143 | 3.08 | 78.1 | | | | |
| 380.000 | D TIERRA | 4.718 | 81.01 | 1147.5 | ADECUADO COR | 1.678 | 32.20 | 654.7 |
| | REV EXT TERR | 0.039 | 2.30 | 80.4 | | | | |
| 400.000 | D TIERRA | 3.122 | 75.11 | 1222.7 | REVEST DESMON | 0.000 | 0.30 | 1.0 |
| | ADECUADO COR | 1.659 | 34.44 | 689.1 | REV EXT TERR | 0.167 | 2.10 | 82.5 |
| 420.000 | D TIERRA | 3.245 | 62.69 | 1285.3 | ADECUADO COR | 1.656 | 33.26 | 722.4 |
| | REV EXT TERR | 0.168 | 3.42 | 86.0 | | | | |
| 440.000 | D TIERRA | 4.074 | 77.27 | 1362.6 | ADECUADO COR | 1.598 | 32.15 | 754.5 |
| | REV EXT TERR | 0.128 | 2.61 | 88.6 | | | | |
| 460.000 | D TIERRA | 3.860 | 89.10 | 1451.7 | ADECUADO COR | 1.617 | 31.54 | 786.1 |
| | REV EXT TERR | 0.101 | 1.92 | 90.5 | | | | |
| 480.000 | D TIERRA | 4.238 | 77.21 | 1528.9 | ADECUADO COR | 1.698 | 33.24 | 819.3 |
| | REV EXT TERR | 0.198 | 3.17 | 93.7 | | | | |
| 500.000 | D TIERRA | 5.715 | 79.14 | 1608.1 | ADECUADO COR | 1.668 | 34.91 | 854.2 |
| | REV EXT TERR | 0.176 | 4.94 | 98.6 | | | | |
| 520.000 | D TIERRA | 4.100 | 95.75 | 1703.8 | ADECUADO COR | 1.653 | 34.12 | 888.4 |
| | TERRAPLEN | 0.000 | 0.03 | 8.7 | REV EXT TERR | 0.156 | 4.44 | 103.0 |
| | EXC ESCALONADO | 0.000 | 0.03 | 3.4 | TERR ESCALONADO | 0.000 | 0.03 | 3.4 |
| 540.000 | D TIERRA | 4.687 | 89.87 | 1793.7 | ADECUADO COR | 1.646 | 32.63 | 921.0 |
| | REV EXT TERR | 0.268 | 3.42 | 106.5 | | | | |
| 560.000 | D TIERRA | 4.593 | 99.25 | 1892.9 | ADECUADO COR | 1.662 | 33.14 | 954.1 |
| | REV EXT TERR | 0.166 | 3.42 | 109.9 | | | | |
| 580.000 | D TIERRA | 5.292 | 94.45 | 1987.4 | ADECUADO COR | 1.616 | 33.49 | 987.6 |
| | REV EXT TERR | 0.111 | 3.64 | 113.5 | | | | |
| 600.000 | D TIERRA | 5.970 | 114.39 | 2101.8 | REVEST DESMON | 0.032 | 0.35 | 1.3 |
| | ADECUADO COR | 1.731 | 33.94 | 1021.6 | REV EXT TERR | 0.082 | 1.71 | 115.2 |
| 620.000 | D TIERRA | 6.584 | 129.83 | 2231.6 | REVEST DESMON | 0.090 | 1.07 | 2.4 |
| | ADECUADO COR | 1.715 | 34.01 | 1055.6 | REV EXT TERR | 0.069 | 1.14 | 116.4 |
| 640.000 | D TIERRA | 7.710 | 136.99 | 2368.6 | REVEST DESMON | 0.147 | 2.67 | 5.1 |
| | ADECUADO COR | 1.645 | 34.15 | 1089.7 | REV EXT TERR | 0.012 | 1.24 | 117.6 |
| 660.000 | D TIERRA | 8.717 | 145.35 | 2514.0 | REVEST DESMON | 0.156 | 2.69 | 7.8 |
| | ADECUADO COR | 2.010 | 39.29 | 1129.0 | REV EXT TERR | 0.000 | 0.02 | 117.6 |
| 674.456 | D TIERRA | 19.008 | 142.65 | 2656.6 | REVEST DESMON | 1.531 | 3.09 | 10.8 |
| | ADECUADO COR | 4.697 | 32.50 | 1161.5 | REV EXT TERR | 0.053 | 0.07 | 117.7 |

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 2656.6 |
| REVEST DESMON | 10.8 |
| ADECUADO COR | 1161.5 |
| TERRAPLEN | 8.7 |
| REV EXT TERR | 117.7 |
| EXC ESCALONADO | 3.4 |
| TERR ESCALONADO | 3.4 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 63 : CE 8.1 CI (F4-63.vol)

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 63 : CE 8.1 CI (F4-63.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 11.596 | 0.00 | 0.0 | REVEST DESMON | 0.119 | 0.00 | 0.0 |
| | ADECUADO COR | 4.916 | 0.00 | 0.0 | VEGETAL | 0.188 | 0.00 | 0.0 |
| | TERRAPLEN | 0.006 | 0.00 | 0.0 | REV EXT TERR | 0.070 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 5.178 | 134.64 | 134.6 | REVEST DESMON | 0.312 | 3.54 | 3.5 |
| | ADECUADO COR | 2.011 | 43.58 | 43.6 | VEGETAL | 2.583 | 36.01 | 36.0 |
| | TERRAPLEN | 0.094 | 0.72 | 0.7 | REV EXT TERR | 0.000 | 0.09 | 0.1 |
| 40.000 | D TIERRA | 3.250 | 80.41 | 215.0 | REVEST DESMON | 0.213 | 4.87 | 8.4 |
| | ADECUADO COR | 1.808 | 36.13 | 79.7 | VEGETAL | 2.007 | 45.88 | 81.9 |
| | TERRAPLEN | 0.436 | 5.12 | 5.8 | REV EXT TERR | 0.152 | 1.33 | 1.4 |
| | EXC ESCALONADO | 0.005 | 0.01 | 0.0 | TERR ESCALONADO | 0.005 | 0.01 | 0.0 |
| 60.000 | D TIERRA | 2.986 | 64.45 | 279.5 | REVEST DESMON | 0.030 | 2.53 | 10.9 |
| | ADECUADO COR | 1.815 | 36.09 | 115.8 | VEGETAL | 1.786 | 38.92 | 120.8 |
| | TERRAPLEN | 0.563 | 8.12 | 14.0 | REV EXT TERR | 0.162 | 2.94 | 4.4 |
| | EXC ESCALONADO | 0.010 | 0.08 | 0.1 | TERR ESCALONADO | 0.010 | 0.08 | 0.1 |
| 80.000 | D TIERRA | 2.732 | 43.32 | 322.8 | REVEST DESMON | 0.010 | 0.16 | 11.1 |
| | ADECUADO COR | 1.805 | 34.90 | 150.7 | VEGETAL | 1.571 | 36.05 | 156.9 |
| | TERRAPLEN | 0.389 | 15.38 | 29.3 | REV EXT TERR | 0.147 | 4.54 | 8.9 |
| | EXC ESCALONADO | 0.001 | 0.90 | 1.0 | TERR ESCALONADO | 0.001 | 0.90 | 1.0 |
| 100.000 | D TIERRA | 4.443 | 65.60 | 388.4 | REVEST DESMON | 0.081 | 0.32 | 11.4 |
| | ADECUADO COR | 1.710 | 33.82 | 184.5 | VEGETAL | 1.367 | 29.35 | 186.2 |
| | TERRAPLEN | 0.292 | 6.34 | 35.7 | REV EXT TERR | 0.063 | 2.70 | 11.6 |
| 120.000 | D TIERRA | 4.757 | 84.33 | 472.7 | REVEST DESMON | 0.590 | 3.35 | 14.8 |
| | ADECUADO COR | 1.699 | 32.93 | 217.5 | VEGETAL | 1.388 | 25.74 | 211.9 |
| | TERRAPLEN | 0.371 | 6.24 | 41.9 | REV EXT TERR | 0.055 | 1.73 | 13.3 |
| 140.000 | D TIERRA | 4.122 | 90.73 | 563.5 | REVEST DESMON | 0.000 | 8.52 | 23.3 |
| | ADECUADO COR | 1.598 | 33.53 | 251.0 | VEGETAL | 0.578 | 24.74 | 236.7 |
| | TERRAPLEN | 0.106 | 5.45 | 47.4 | REV EXT TERR | 0.125 | 1.50 | 14.8 |
| 160.000 | D TIERRA | 3.916 | 95.09 | 658.6 | REVEST DESMON | 0.000 | 12.44 | 35.7 |
| | ADECUADO COR | 1.551 | 32.77 | 283.8 | VEGETAL | 1.346 | 15.85 | 252.5 |
| | TERRAPLEN | 0.292 | 2.45 | 49.8 | REV EXT TERR | 0.085 | 1.64 | 16.5 |
| 180.000 | D TIERRA | 4.352 | 75.30 | 733.9 | REVEST DESMON | 0.019 | 0.10 | 35.8 |
| | ADECUADO COR | 2.010 | 33.50 | 317.3 | VEGETAL | 0.609 | 21.38 | 273.9 |
| | TERRAPLEN | 0.020 | 4.48 | 54.3 | REV EXT TERR | 0.000 | 1.44 | 17.9 |
| 200.000 | D TIERRA | 3.212 | 102.04 | 835.9 | REVEST DESMON | 0.499 | 15.50 | 51.3 |
| | ADECUADO COR | 1.718 | 38.74 | 356.0 | VEGETAL | 1.505 | 15.54 | 289.5 |
| | TERRAPLEN | 0.361 | 2.36 | 56.7 | REV EXT TERR | 0.068 | 0.34 | 18.2 |
| 220.000 | D TIERRA | 2.652 | 56.38 | 892.3 | REVEST DESMON | 0.088 | 2.78 | 54.1 |
| | ADECUADO COR | 1.747 | 34.76 | 390.8 | VEGETAL | 1.660 | 32.45 | 321.9 |
| | TERRAPLEN | 0.293 | 6.02 | 62.7 | REV EXT TERR | 0.093 | 1.71 | 20.0 |
| 240.000 | D TIERRA | 3.058 | 58.50 | 950.8 | REVEST DESMON | 0.079 | 1.67 | 55.8 |
| | ADECUADO COR | 1.728 | 34.61 | 425.4 | VEGETAL | 1.505 | 31.56 | 353.5 |
| | TERRAPLEN | 0.292 | 5.85 | 68.5 | REV EXT TERR | 0.078 | 1.60 | 21.6 |
| 260.000 | D TIERRA | 2.940 | 59.83 | 1010.6 | REVEST DESMON | 0.075 | 1.52 | 57.3 |
| | ADECUADO COR | 1.753 | 34.83 | 460.2 | VEGETAL | 1.310 | 27.67 | 381.1 |
| | TERRAPLEN | 0.293 | 5.85 | 74.4 | REV EXT TERR | 0.098 | 1.78 | 23.3 |
| 280.000 | D TIERRA | 2.390 | 54.15 | 1064.8 | REVEST DESMON | 0.033 | 1.01 | 58.3 |
| | ADECUADO COR | 1.796 | 35.38 | 495.6 | VEGETAL | 1.182 | 24.93 | 406.1 |
| | TERRAPLEN | 0.349 | 6.13 | 80.5 | REV EXT TERR | 0.136 | 2.23 | 25.6 |
| | EXC ESCALONADO | 0.013 | 0.07 | 1.1 | TERR ESCALONADO | 0.013 | 0.07 | 1.1 |
| 300.000 | D TIERRA | 1.461 | 39.70 | 1104.5 | REVEST DESMON | 0.000 | 4.81 | 63.1 |
| | ADECUADO COR | 1.755 | 35.90 | 531.5 | VEGETAL | 1.299 | 26.61 | 432.7 |
| | TERRAPLEN | 0.685 | 10.84 | 91.4 | REV EXT TERR | 0.263 | 3.61 | 29.2 |
| | EXC ESCALONADO | 0.026 | 0.41 | 1.5 | TERR ESCALONADO | 0.026 | 0.41 | 1.5 |
| 320.000 | D TIERRA | 0.884 | 20.07 | 1124.5 | ADECUADO COR | 1.905 | 36.90 | 568.4 |
| | VEGETAL | 1.913 | 29.72 | 462.4 | TERRAPLEN | 1.295 | 19.39 | 110.7 |
| | REV EXT TERR | 0.484 | 7.51 | 36.7 | EXC ESCALONADO | 0.145 | 1.65 | 3.1 |
| | TERR ESCALONADO | 0.145 | 1.65 | 3.1 | | | | |
| 340.000 | D TIERRA | 0.772 | 16.32 | 1140.8 | ADECUADO COR | 1.824 | 37.09 | 605.5 |
| | VEGETAL | 1.692 | 33.85 | 496.3 | TERRAPLEN | 1.522 | 27.85 | 138.6 |
| | REV EXT TERR | 0.379 | 8.44 | 45.1 | EXC ESCALONADO | 0.150 | 2.49 | 5.6 |
| | TERR ESCALONADO | 0.150 | 2.49 | 5.6 | | | | |
| 360.000 | D TIERRA | 0.821 | 15.92 | 1156.8 | ADECUADO COR | 1.799 | 36.11 | 641.6 |
| | VEGETAL | 1.618 | 32.77 | 529.0 | TERRAPLEN | 1.413 | 28.00 | 166.6 |
| | REV EXT TERR | 0.369 | 7.26 | 52.4 | EXC ESCALONADO | 0.160 | 3.36 | 9.0 |
| | TERR ESCALONADO | 0.160 | 3.36 | 9.0 | | | | |
| 380.000 | D TIERRA | 1.009 | 20.60 | 1177.4 | ADECUADO COR | 1.757 | 35.56 | 677.2 |
| | VEGETAL | 1.659 | 31.76 | 560.8 | TERRAPLEN | 1.416 | 28.94 | 195.5 |
| | REV EXT TERR | 0.304 | 6.88 | 59.3 | EXC ESCALONADO | 0.275 | 3.55 | 12.5 |
| | TERR ESCALONADO | 0.275 | 3.55 | 12.5 | | | | |
| 400.000 | D TIERRA | 1.382 | 23.88 | 1201.3 | ADECUADO COR | 1.721 | 34.77 | 711.9 |
| | VEGETAL | 1.476 | 31.76 | 592.5 | TERRAPLEN | 0.822 | 21.67 | 217.2 |
| | REV EXT TERR | 0.246 | 5.47 | 64.7 | EXC ESCALONADO | 0.137 | 3.87 | 16.4 |
| | TERR ESCALONADO | 0.137 | 3.87 | 16.4 | | | | |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 420.000 | D TIERRA | 1.717 | 31.22 | 1232.5 | ADECUADO COR | 1.690 | 34.11 | 746.0 |
| | VEGETAL | 1.308 | 27.49 | 620.0 | TERRAPLEN | 0.549 | 13.35 | 230.5 |
| | REV EXT TERR | 0.211 | 4.58 | 69.3 | EXC ESCALONADO | 0.024 | 1.54 | 17.9 |
| | TERR ESCALONADO | 0.024 | 1.54 | 17.9 | | | | |
| 440.000 | D TIERRA | 2.273 | 40.90 | 1273.4 | REVEST DESMON | 0.447 | 5.58 | 68.7 |
| | ADECUADO COR | 1.817 | 35.78 | 781.8 | VEGETAL | 1.405 | 26.59 | 646.6 |
| | TERRAPLEN | 0.504 | 11.60 | 242.1 | REV EXT TERR | 0.166 | 3.71 | 73.0 |
| | EXC ESCALONADO | 0.024 | 0.57 | 18.5 | TERR ESCALONADO | 0.024 | 0.57 | 18.5 |
| 460.000 | D TIERRA | 2.304 | 46.71 | 1320.1 | REVEST DESMON | 0.522 | 9.75 | 78.5 |
| | ADECUADO COR | 1.797 | 36.15 | 818.0 | VEGETAL | 1.292 | 27.13 | 673.7 |
| | TERRAPLEN | 0.367 | 8.48 | 250.6 | REV EXT TERR | 0.138 | 3.03 | 76.1 |
| | EXC ESCALONADO | 0.040 | 0.52 | 19.0 | TERR ESCALONADO | 0.040 | 0.52 | 19.0 |
| 480.000 | D TIERRA | 2.216 | 41.06 | 1361.1 | REVEST DESMON | 0.000 | 1.17 | 79.6 |
| | ADECUADO COR | 1.762 | 34.62 | 852.6 | VEGETAL | 1.298 | 25.50 | 699.2 |
| | TERRAPLEN | 0.325 | 6.61 | 257.2 | REV EXT TERR | 0.245 | 4.02 | 80.1 |
| | EXC ESCALONADO | 0.004 | 0.19 | 19.2 | TERR ESCALONADO | 0.004 | 0.19 | 19.2 |
| 500.000 | D TIERRA | 2.990 | 53.00 | 1414.1 | REVEST DESMON | 0.516 | 2.58 | 82.2 |
| | ADECUADO COR | 1.811 | 35.07 | 887.7 | VEGETAL | 1.455 | 27.64 | 726.9 |
| | TERRAPLEN | 0.409 | 7.38 | 264.6 | REV EXT TERR | 0.156 | 4.33 | 84.4 |
| | EXC ESCALONADO | 0.042 | 0.38 | 19.6 | TERR ESCALONADO | 0.042 | 0.38 | 19.6 |
| 520.000 | D TIERRA | 3.516 | 67.35 | 1481.5 | REVEST DESMON | 0.514 | 10.67 | 92.9 |
| | ADECUADO COR | 1.812 | 36.36 | 924.0 | VEGETAL | 1.341 | 28.80 | 755.7 |
| | TERRAPLEN | 0.371 | 8.20 | 272.8 | REV EXT TERR | 0.157 | 3.40 | 87.8 |
| | EXC ESCALONADO | 0.021 | 0.83 | 20.4 | TERR ESCALONADO | 0.021 | 0.83 | 20.4 |
| 540.000 | D TIERRA | 3.424 | 70.58 | 1552.1 | REVEST DESMON | 0.388 | 9.71 | 102.6 |
| | ADECUADO COR | 1.816 | 36.26 | 960.3 | VEGETAL | 1.396 | 28.30 | 784.0 |
| | TERRAPLEN | 0.406 | 7.68 | 280.5 | REV EXT TERR | 0.162 | 3.18 | 91.0 |
| | EXC ESCALONADO | 0.019 | 0.39 | 20.8 | TERR ESCALONADO | 0.019 | 0.39 | 20.8 |
| 545.330 | D TIERRA | 3.567 | 18.63 | 1570.7 | REVEST DESMON | 0.497 | 2.36 | 105.0 |
| | ADECUADO COR | 1.818 | 9.68 | 970.0 | VEGETAL | 1.394 | 7.44 | 791.4 |
| | TERRAPLEN | 0.428 | 2.22 | 282.7 | REV EXT TERR | 0.166 | 0.88 | 91.9 |
| | EXC ESCALONADO | 0.020 | 0.10 | 20.9 | TERR ESCALONADO | 0.020 | 0.10 | 20.9 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 63 : CE 8.1 CI (F4-63.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 1570.7 |
| REVEST DESMON | 105.0 |
| ADECUADO COR | 970.0 |
| VEGETAL | 791.4 |
| TERRAPLEN | 282.7 |
| REV EXT TERR | 91.9 |
| EXC ESCALONADO | 20.9 |
| TERR ESCALONADO | 20.9 |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 77 : PI 6.2 (Camino) (F4-77.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 60.000 | D TIERRA | 16.711 | 170.07 | 170.1 | ADECUADO COR | 7.495 | 74.96 | 75.0 |
| | SUELO EST 3 | 4.497 | 44.98 | 45.0 | | | | |
| 77.719 | D TIERRA | 16.994 | 299.36 | 469.4 | ADECUADO COR | 7.495 | 132.80 | 207.8 |
| | SUELO EST 3 | 4.497 | 79.68 | 124.7 | | | | |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 77 : PI 6.2 (Camino) (F4-77.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 469.4 |
| ADECUADO COR | 207.8 |
| SUELO EST 3 | 124.7 |

Istram 22.08.08.03 03/11/22 12:22:15 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 78 : PI 8.1 (C-252) (F4-78.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 15.215 | 0.00 | 0.0 | ADECUADO COR | 6.395 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.687 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 15.510 | 283.90 | 283.9 | ADECUADO COR | 6.395 | 129.14 | 129.1 |
| | SUELO EST 3 | 3.687 | 74.25 | 74.2 | | | | |
| 40.000 | D TIERRA | 12.847 | 1113.83 | 1397.7 | ADECUADO COR | 6.395 | 127.90 | 257.0 |
| | SUELO EST 3 | 3.687 | 73.75 | 148.0 | | | | |
| 60.000 | D TIERRA | 13.038 | 253.62 | 1651.4 | ADECUADO COR | 6.695 | 131.65 | 388.7 |
| | SUELO EST 3 | 3.807 | 75.25 | 223.2 | | | | |
| 80.000 | D TIERRA | 12.917 | 263.19 | 1914.5 | ADECUADO COR | 6.694 | 131.80 | 520.5 |
| | SUELO EST 3 | 3.809 | 75.31 | 298.6 | | | | |
| 86.780 | D TIERRA | 12.858 | 87.63 | 2002.2 | ADECUADO COR | 6.694 | 45.39 | 565.9 |
| | SUELO EST 3 | 3.809 | 25.82 | 324.4 | | | | |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 78 : PI 8.1 (C-252) (F4-78.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 2002.2 |
| ADECUADO COR | 565.9 |
| SUELO EST 3 | 324.4 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ED50 (HUSO 30)
 EJE : 81 : E1 RAMAL 2 (81.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 16.780 | D TIERRA | 11.904 | 0.00 | 0.0 | ADECUADO COR | 5.088 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.053 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 11.602 | 37.84 | 37.8 | ADECUADO COR | 5.011 | 16.26 | 16.3 |
| | SUELO EST 3 | 3.007 | 9.76 | 9.8 | | | | |
| 40.000 | D TIERRA | 11.127 | 236.86 | 274.7 | ADECUADO COR | 6.049 | 112.31 | 128.6 |
| | SUELO EST 3 | 3.593 | 66.95 | 76.7 | REV EXT TERR | 0.280 | 3.68 | 3.7 |
| 60.000 | D TIERRA | 5.474 | 163.84 | 438.5 | ADECUADO COR | 6.474 | 125.49 | 254.1 |
| | SUELO EST 3 | 3.711 | 73.30 | 150.0 | TERRAPLEN | 0.209 | 1.04 | 1.0 |
| | REV EXT TERR | 0.612 | 8.12 | 11.8 | EXC ESCALONADO | 0.095 | 0.48 | 0.5 |
| | TERR ESCALONADO | 0.095 | 0.48 | 0.5 | | | | |
| 80.000 | D TIERRA | 0.425 | 47.55 | 486.1 | ADECUADO COR | 6.924 | 135.00 | 389.1 |
| | SUELO EST 3 | 3.791 | 75.37 | 225.4 | VEGETAL | 1.465 | 8.10 | 8.1 |
| | TERRAPLEN | 7.477 | 45.75 | 46.8 | REV EXT TERR | 1.107 | 16.10 | 27.9 |
| | EXC ESCALONADO | 0.430 | 3.48 | 4.0 | TERR ESCALONADO | 0.430 | 3.48 | 4.0 |
| 100.000 | D TIERRA | 0.093 | 4.04 | 490.1 | ADECUADO COR | 6.924 | 138.48 | 527.5 |
| | SUELO EST 3 | 3.791 | 75.81 | 301.2 | VEGETAL | 2.828 | 50.13 | 58.2 |
| | TERRAPLEN | 25.821 | 333.55 | 380.3 | REV EXT TERR | 1.870 | 29.81 | 57.7 |
| | EXC ESCALONADO | 0.729 | 12.15 | 16.1 | TERR ESCALONADO | 0.729 | 12.15 | 16.1 |
| 120.000 | D TIERRA | 0.358 | 3.17 | 493.3 | ADECUADO COR | 6.894 | 138.43 | 666.0 |
| | SUELO EST 3 | 3.773 | 75.78 | 377.0 | VEGETAL | 1.580 | 54.71 | 112.9 |
| | TERRAPLEN | 45.446 | 725.89 | 1106.2 | REV EXT TERR | 2.548 | 44.44 | 102.1 |
| | EXC ESCALONADO | 1.300 | 21.91 | 38.0 | TERR ESCALONADO | 1.300 | 21.91 | 38.0 |
| 140.000 | D TIERRA | 0.212 | 5.03 | 498.3 | ADECUADO COR | 6.707 | 136.01 | 802.0 |
| | SUELO EST 3 | 3.660 | 74.33 | 451.3 | VEGETAL | 3.234 | 52.02 | 165.0 |
| | TERRAPLEN | 66.588 | 1122.35 | 2228.6 | REV EXT TERR | 4.136 | 62.98 | 165.1 |
| | EXC ESCALONADO | 1.920 | 34.54 | 72.6 | TERR ESCALONADO | 1.920 | 34.54 | 72.6 |
| 160.000 | D TIERRA | 0.124 | 3.58 | 501.9 | ADECUADO COR | 6.589 | 132.59 | 934.6 |
| | SUELO EST 3 | 3.592 | 72.31 | 523.6 | VEGETAL | 3.692 | 69.89 | 234.8 |
| | TERRAPLEN | 80.743 | 1472.52 | 3701.1 | REV EXT TERR | 3.202 | 67.58 | 232.7 |
| | EXC ESCALONADO | 2.073 | 38.97 | 111.5 | TERR ESCALONADO | 2.073 | 38.97 | 111.5 |
| 180.000 | D TIERRA | 0.010 | 1.11 | 503.0 | ADECUADO COR | 6.571 | 131.67 | 1066.2 |
| | SUELO EST 3 | 3.586 | 71.80 | 595.4 | VEGETAL | 4.155 | 78.46 | 313.3 |
| | TERRAPLEN | 83.910 | 1674.84 | 5375.9 | REV EXT TERR | 2.808 | 60.05 | 292.8 |
| | EXC ESCALONADO | 2.524 | 46.93 | 158.5 | TERR ESCALONADO | 2.524 | 46.93 | 158.5 |
| 200.000 | D TIERRA | 0.010 | 0.34 | 503.4 | ADECUADO COR | 5.945 | 123.96 | 1190.2 |
| | SUELO EST 3 | 3.395 | 70.08 | 665.5 | VEGETAL | 3.982 | 82.04 | 395.3 |
| | TERRAPLEN | 79.556 | 1641.66 | 7017.6 | REV EXT TERR | 2.546 | 52.64 | 345.4 |
| | EXC ESCALONADO | 2.773 | 53.25 | 211.7 | TERR ESCALONADO | 2.773 | 53.25 | 211.7 |
| 207.526 | D TIERRA | 0.002 | 0.06 | 503.4 | ADECUADO COR | 5.816 | 44.26 | 1234.5 |
| | SUELO EST 3 | 3.321 | 25.28 | 690.8 | VEGETAL | 4.068 | 30.36 | 425.7 |
| | TERRAPLEN | 75.616 | 584.47 | 7602.1 | REV EXT TERR | 2.509 | 19.01 | 364.4 |
| | EXC ESCALONADO | 2.984 | 21.98 | 233.7 | TERR ESCALONADO | 2.984 | 21.98 | 233.7 |

Istram 22.08.08.03 03/11/22 12:22:16 200315
 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ED50 (HUSO 30)
 EJE : 81 : E1 RAMAL 2 (81.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 503.4 |
| ADECUADO COR | 1234.5 |
| SUELO EST 3 | 690.8 |
| VEGETAL | 425.7 |
| TERRAPLEN | 7602.1 |
| REV EXT TERR | 364.4 |
| EXC ESCALONADO | 233.7 |
| TERR ESCALONADO | 233.7 |

Istram 22.08.08.03 03/11/22 12:22:16 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 96 : CE 6.8 CD (F4-96.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 8.000 | D TIERRA | 2.897 | 0.00 | 0.0 | ADECUADO COR | 1.524 | 0.00 | 0.0 |
| | REV EXT TERR | 0.034 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 0.493 | 26.43 | 26.4 | ADECUADO COR | 1.897 | 20.43 | 20.4 |
| | TERRAPLEN | 0.788 | 1.56 | 1.6 | REV EXT TERR | 0.642 | 2.98 | 3.0 |
| | EXC ESCALONADO | 0.378 | 0.92 | 0.9 | TERR ESCALONADO | 0.378 | 0.92 | 0.9 |
| 30.553 | D TIERRA | 0.000 | 0.97 | 27.4 | ADECUADO COR | 4.908 | 23.38 | 43.8 |
| | TERRAPLEN | 15.434 | 44.25 | 45.8 | REV EXT TERR | 1.234 | 10.13 | 13.1 |
| | EXC ESCALONADO | 1.245 | 8.27 | 9.2 | TERR ESCALONADO | 1.245 | 8.27 | 9.2 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 96 : CE 6.8 CD (F4-96.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 27.4 |
| ADECUADO COR | 43.8 |
| TERRAPLEN | 45.8 |
| REV EXT TERR | 13.1 |
| EXC ESCALONADO | 9.2 |
| TERR ESCALONADO | 9.2 |

Istram 22.08.08.03 03/11/22 12:22:16 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 141 : PI 4.8 (GIV-6221) (F4-141.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 10.140 | 0.00 | 0.0 | ADECUADO COR | 5.380 | 0.00 | 0.0 |
| | SUELO EST 3 | 3.111 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 10.381 | 203.87 | 203.9 | ADECUADO COR | 4.899 | 101.68 | 101.7 |
| | SUELO EST 3 | 2.939 | 59.89 | 59.9 | | | | |
| 40.000 | D TIERRA | 0.000 | 38.71 | 242.6 | ADECUADO COR | 0.000 | 19.98 | 121.7 |
| | SUELO EST 3 | 0.000 | 11.98 | 71.9 | | | | |
| 60.000 | D TIERRA | 10.248 | 77.82 | 320.4 | ADECUADO COR | 5.525 | 39.37 | 161.0 |
| | SUELO EST 3 | 3.120 | 22.81 | 94.7 | | | | |
| 80.000 | D TIERRA | 10.074 | 205.06 | 525.5 | ADECUADO COR | 5.504 | 110.87 | 271.9 |
| | SUELO EST 3 | 3.118 | 62.39 | 157.1 | | | | |
| 89.393 | D TIERRA | 10.043 | 94.44 | 619.9 | ADECUADO COR | 5.434 | 51.42 | 323.3 |
| | SUELO EST 3 | 3.112 | 29.27 | 186.3 | | | | |

Istram 22.08.08.03 03/11/22 12:22:16 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 141 : PI 4.8 (GIV-6221) (F4-141.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 619.9 |
| ADECUADO COR | 323.3 |
| SUELO EST 3 | 186.3 |

Istram 22.08.08.03 03/11/22 12:22:16 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 144 : CE 7.4 CI-CD (PI 7.4) (F4-144.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 3.219 | 0.00 | 0.0 | ADECUADO COR | 2.710 | 0.00 | 0.0 |
| | TERRAPLEN | 0.002 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 4.211 | 68.89 | 68.9 | ADECUADO COR | 2.710 | 54.19 | 54.2 |
| | D TIERRA | 44.760 | 425.13 | 494.0 | ADECUADO COR | 1.940 | 46.72 | 100.9 |
| 60.000 | D TIERRA | 5.333 | 326.51 | 820.5 | ADECUADO COR | 2.710 | 44.58 | 145.5 |
| | TERRAPLEN | 0.000 | 0.14 | 0.2 | | | | |
| 80.000 | D TIERRA | 4.876 | 96.58 | 917.1 | ADECUADO COR | 2.710 | 54.20 | 199.7 |
| | TERRAPLEN | 0.001 | 0.02 | 0.2 | | | | |
| 91.450 | D TIERRA | 5.037 | 56.49 | 973.6 | ADECUADO COR | 2.710 | 31.03 | 230.7 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 144 : CE 7.4 CI-CD (PI 7.4) (F4-144.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 973.6 |
| ADECUADO COR | 230.7 |
| TERRAPLEN | 0.2 |

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PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 146 : CONNEXION CON AVDA. DE L'EMPORDÀ 1 (F4-146.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 2.666 | 0.00 | 0.0 | ADECUADO COR | 1.756 | 0.00 | 0.0 |
| | REV EXT TERR | 0.387 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 2.967 | 66.67 | 66.7 | REVEST DESMON | 0.000 | 0.03 | 0.0 |
| | ADECUADO COR | 1.552 | 32.59 | 32.6 | REV EXT TERR | 0.051 | 3.25 | 3.2 |
| 40.000 | D TIERRA | 0.794 | 39.00 | 105.7 | REVEST DESMON | 0.000 | 0.06 | 0.1 |
| | ADECUADO COR | 1.755 | 33.95 | 66.5 | TERRAPLEN | 0.587 | 1.98 | 2.0 |
| | REV EXT TERR | 0.300 | 3.32 | 6.6 | EXC ESCALONADO | 0.295 | 1.20 | 1.2 |
| | TERR ESCALONADO | 0.295 | 1.20 | 1.2 | | | | |
| 60.000 | D TIERRA | 0.000 | 23.02 | 128.7 | REVEST DESMON | 0.000 | 1.53 | 1.6 |
| | ADECUADO COR | 1.905 | 36.76 | 103.3 | TERRAPLEN | 9.669 | 70.76 | 72.7 |
| | REV EXT TERR | 1.260 | 11.60 | 18.2 | EXC ESCALONADO | 0.333 | 7.00 | 8.2 |
| | TERR ESCALONADO | 0.333 | 7.00 | 8.2 | | | | |
| 80.000 | D TIERRA | 0.000 | 71.92 | 200.6 | REVEST DESMON | 0.000 | 4.22 | 5.8 |
| | ADECUADO COR | 2.334 | 44.60 | 147.9 | TERRAPLEN | 1.473 | 92.72 | 165.5 |
| | REV EXT TERR | 0.472 | 12.35 | 30.5 | EXC ESCALONADO | 0.174 | 6.34 | 14.5 |
| | TERR ESCALONADO | 0.174 | 6.34 | 14.5 | | | | |
| 100.000 | D TIERRA | 3.513 | 28.84 | 229.4 | REVEST DESMON | 0.000 | 0.12 | 6.0 |
| | ADECUADO COR | 2.059 | 45.33 | 193.2 | TERRAPLEN | 0.000 | 3.46 | 168.9 |
| | REV EXT TERR | 0.121 | 5.99 | 36.5 | EXC ESCALONADO | 0.000 | 0.64 | 15.2 |
| | TERR ESCALONADO | 0.000 | 0.64 | 15.2 | | | | |
| 120.000 | D TIERRA | 4.769 | 74.45 | 303.9 | REVEST DESMON | 0.034 | 0.05 | 6.0 |
| | ADECUADO COR | 2.163 | 40.51 | 233.7 | REV EXT TERR | 0.000 | 1.25 | 37.8 |
| 140.000 | D TIERRA | 5.283 | 105.55 | 409.4 | REVEST DESMON | 0.114 | 2.14 | 8.1 |
| | ADECUADO COR | 2.163 | 43.14 | 276.9 | | | | |
| 160.000 | D TIERRA | 5.843 | 105.10 | 514.5 | REVEST DESMON | 0.128 | 1.91 | 10.1 |
| | ADECUADO COR | 2.064 | 41.25 | 318.1 | REV EXT TERR | 0.000 | 0.19 | 38.0 |
| 180.000 | D TIERRA | 4.307 | 105.65 | 620.2 | REVEST DESMON | 0.003 | 2.09 | 12.1 |
| | ADECUADO COR | 2.045 | 41.30 | 359.4 | REV EXT TERR | 0.004 | 0.00 | 38.0 |
| 200.000 | D TIERRA | 4.527 | 77.39 | 697.6 | REVEST DESMON | 0.001 | 0.00 | 12.2 |
| | ADECUADO COR | 2.114 | 39.65 | 399.1 | REV EXT TERR | 0.000 | 0.41 | 38.4 |
| 220.000 | D TIERRA | 3.545 | 83.55 | 781.1 | REVEST DESMON | 0.000 | 0.07 | 12.2 |
| | ADECUADO COR | 1.987 | 40.67 | 439.8 | REV EXT TERR | 0.059 | 0.23 | 38.6 |
| 240.000 | D TIERRA | 2.539 | 60.41 | 841.5 | ADECUADO COR | 2.146 | 41.48 | 481.2 |
| | REV EXT TERR | 0.185 | 2.57 | 41.2 | | | | |
| 260.000 | D TIERRA | 3.882 | 67.35 | 908.9 | ADECUADO COR | 1.950 | 40.38 | 521.6 |
| | REV EXT TERR | 0.019 | 1.63 | 42.8 | | | | |
| 280.000 | D TIERRA | 3.838 | 77.25 | 986.1 | ADECUADO COR | 1.940 | 39.17 | 560.8 |
| | REV EXT TERR | 0.020 | 0.52 | 43.3 | | | | |
| 300.000 | D TIERRA | 3.816 | 76.01 | 1062.1 | ADECUADO COR | 1.936 | 38.82 | 599.6 |
| | REV EXT TERR | 0.018 | 0.44 | 43.8 | | | | |
| 320.000 | D TIERRA | 3.910 | 77.38 | 1139.5 | ADECUADO COR | 1.918 | 38.52 | 638.1 |
| | REV EXT TERR | 0.000 | 0.14 | 43.9 | | | | |
| 340.000 | D TIERRA | 3.289 | 73.39 | 1212.9 | ADECUADO COR | 2.031 | 39.26 | 677.4 |
| | REV EXT TERR | 0.094 | 0.77 | 44.7 | | | | |
| 360.000 | D TIERRA | 3.936 | 66.90 | 1279.8 | ADECUADO COR | 2.006 | 40.63 | 718.0 |
| | REV EXT TERR | 0.037 | 1.86 | 46.5 | | | | |
| 380.000 | D TIERRA | 3.934 | 71.70 | 1351.5 | REVEST DESMON | 0.011 | 0.01 | 12.2 |
| | ADECUADO COR | 2.089 | 40.77 | 758.8 | REV EXT TERR | 0.040 | 1.36 | 47.9 |
| 400.000 | D TIERRA | 4.698 | 81.75 | 1433.3 | REVEST DESMON | 0.009 | 0.13 | 12.4 |
| | ADECUADO COR | 2.150 | 40.66 | 799.5 | REV EXT TERR | 0.000 | 0.27 | 48.2 |
| 420.000 | D TIERRA | 4.404 | 93.41 | 1526.7 | REVEST DESMON | 0.004 | 0.35 | 12.7 |
| | ADECUADO COR | 2.059 | 42.24 | 841.7 | REV EXT TERR | 0.020 | 0.05 | 48.2 |
| 440.000 | D TIERRA | 2.677 | 65.53 | 1592.2 | REVEST DESMON | 0.000 | 0.02 | 12.7 |
| | ADECUADO COR | 2.143 | 41.66 | 883.3 | REV EXT TERR | 0.185 | 2.35 | 50.6 |
| 460.000 | D TIERRA | 4.378 | 65.12 | 1657.3 | REVEST DESMON | 0.047 | 0.16 | 12.9 |
| | ADECUADO COR | 2.098 | 42.10 | 925.4 | REV EXT TERR | 0.049 | 2.43 | 53.0 |
| 480.000 | D TIERRA | 4.371 | 90.28 | 1747.6 | REVEST DESMON | 0.079 | 1.56 | 14.5 |
| | ADECUADO COR | 2.095 | 41.86 | 967.3 | REV EXT TERR | 0.046 | 0.88 | 53.9 |
| 500.000 | D TIERRA | 4.011 | 83.54 | 1831.1 | REVEST DESMON | 0.032 | 1.08 | 15.5 |
| | ADECUADO COR | 2.117 | 42.08 | 1009.4 | REV EXT TERR | 0.064 | 1.07 | 54.9 |
| 520.000 | D TIERRA | 3.954 | 74.51 | 1905.7 | REVEST DESMON | 0.039 | 0.27 | 15.8 |
| | ADECUADO COR | 2.159 | 43.12 | 1052.5 | REV EXT TERR | 0.100 | 1.94 | 56.9 |
| 537.711 | D TIERRA | 4.115 | 80.23 | 1985.9 | REVEST DESMON | 0.000 | 1.05 | 16.9 |
| | ADECUADO COR | 2.028 | 36.64 | 1089.1 | REV EXT TERR | 0.000 | 0.72 | 57.6 |

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PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 146 : CONNEXION CON AVDA. DE L'EMPORDÀ 1 (F4-146.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 1985.9 |
| REVEST DESMON | 16.9 |
| ADECUADO COR | 1089.1 |
| TERRAPLEN | 168.9 |
| REV EXT TERR | 57.6 |
| EXC ESCALONADO | 15.2 |
| TERR ESCALONADO | 15.2 |

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PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 147 : CE 1.1 CI (F4-147.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 1.949 | 0.00 | 0.0 | ADECUADO COR | 0.801 | 0.00 | 0.0 |
| | REV EXT TERR | 0.033 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 3.059 | 99.34 | 99.3 | REVEST DESMON | 0.200 | 3.37 | 3.4 |
| | ADECUADO COR | 1.690 | 46.37 | 46.4 | VEGETAL | 1.962 | 28.16 | 28.2 |
| | TERRAPLEN | 0.292 | 4.27 | 4.3 | REV EXT TERR | 0.049 | 0.75 | 0.7 |
| 40.000 | D TIERRA | 2.018 | 47.76 | 147.1 | REVEST DESMON | 0.156 | 3.92 | 7.3 |
| | ADECUADO COR | 1.742 | 34.61 | 81.0 | VEGETAL | 2.351 | 46.59 | 74.7 |
| | TERRAPLEN | 0.298 | 6.39 | 10.7 | REV EXT TERR | 0.089 | 1.61 | 2.4 |
| 60.000 | D TIERRA | 3.465 | 58.83 | 205.9 | REVEST DESMON | 0.126 | 3.06 | 10.4 |
| | ADECUADO COR | 2.010 | 35.76 | 116.7 | VEGETAL | 2.266 | 48.19 | 122.9 |
| | TERRAPLEN | 0.115 | 5.55 | 16.2 | REV EXT TERR | 0.000 | 1.04 | 3.4 |
| 80.000 | D TIERRA | 3.183 | 68.44 | 274.4 | REVEST DESMON | 0.082 | 1.87 | 12.2 |
| | ADECUADO COR | 1.649 | 34.34 | 151.1 | VEGETAL | 2.510 | 47.62 | 170.6 |
| | TERRAPLEN | 0.358 | 5.88 | 22.1 | REV EXT TERR | 0.013 | 0.10 | 3.5 |
| 100.000 | D TIERRA | 2.088 | 54.92 | 329.3 | REVEST DESMON | 0.000 | 1.42 | 13.6 |
| | ADECUADO COR | 1.616 | 33.04 | 184.1 | VEGETAL | 2.138 | 48.23 | 218.8 |
| | TERRAPLEN | 0.293 | 6.56 | 28.6 | REV EXT TERR | 0.088 | 0.78 | 4.3 |
| 120.000 | D TIERRA | 1.822 | 36.37 | 365.7 | ADECUADO COR | 1.737 | 33.87 | 218.0 |
| | VEGETAL | 2.277 | 44.38 | 263.2 | TERRAPLEN | 0.294 | 5.88 | 34.5 |
| | REV EXT TERR | 0.182 | 2.94 | 7.2 | EXC ESCALONADO | 0.000 | 0.02 | 0.0 |
| | TERR ESCALONADO | 0.000 | 0.02 | 0.0 | | | | |
| 140.000 | D TIERRA | 2.604 | 42.38 | 408.0 | ADECUADO COR | 1.672 | 34.32 | 252.3 |
| | VEGETAL | 2.290 | 45.85 | 309.0 | TERRAPLEN | 0.293 | 5.87 | 40.4 |
| | REV EXT TERR | 0.139 | 3.39 | 10.6 | | | | |
| 160.000 | D TIERRA | 7.289 | 79.88 | 487.9 | REVEST DESMON | 0.309 | 2.08 | 15.7 |
| | ADECUADO COR | 2.010 | 35.97 | 288.3 | VEGETAL | 2.554 | 48.78 | 357.8 |
| | TERRAPLEN | 0.056 | 6.06 | 46.5 | REV EXT TERR | 0.000 | 2.09 | 12.7 |
| | EXC ESCALONADO | 0.000 | 0.26 | 0.3 | TERR ESCALONADO | 0.000 | 0.26 | 0.3 |
| 180.000 | D TIERRA | 3.952 | 105.88 | 593.8 | REVEST DESMON | 0.027 | 3.14 | 18.9 |
| | ADECUADO COR | 1.711 | 37.69 | 326.0 | VEGETAL | 2.638 | 51.00 | 408.8 |
| | TERRAPLEN | 0.409 | 3.95 | 50.4 | REV EXT TERR | 0.066 | 0.23 | 12.9 |
| 200.000 | D TIERRA | 0.570 | 36.93 | 630.7 | REVEST DESMON | 0.000 | 0.13 | 19.0 |
| | ADECUADO COR | 1.832 | 35.42 | 361.4 | VEGETAL | 2.246 | 47.47 | 456.3 |
| | TERRAPLEN | 0.781 | 10.05 | 60.5 | REV EXT TERR | 0.297 | 4.15 | 17.1 |
| | EXC ESCALONADO | 0.050 | 0.63 | 0.9 | TERR ESCALONADO | 0.050 | 0.63 | 0.9 |
| 220.000 | D TIERRA | 0.612 | 11.00 | 641.7 | ADECUADO COR | 1.800 | 36.73 | 398.1 |
| | VEGETAL | 2.204 | 44.85 | 501.1 | TERRAPLEN | 0.571 | 16.30 | 76.8 |
| | REV EXT TERR | 0.264 | 5.96 | 23.0 | EXC ESCALONADO | 0.046 | 0.81 | 1.7 |
| | TERR ESCALONADO | 0.046 | 0.81 | 1.7 | | | | |
| 240.000 | D TIERRA | 0.795 | 20.69 | 662.4 | ADECUADO COR | 1.744 | 34.79 | 432.9 |
| | VEGETAL | 2.076 | 43.08 | 544.2 | TERRAPLEN | 0.329 | 7.73 | 84.5 |
| | REV EXT TERR | 0.209 | 4.07 | 27.1 | EXC ESCALONADO | 0.020 | 0.29 | 2.0 |
| | TERR ESCALONADO | 0.020 | 0.29 | 2.0 | | | | |
| 260.000 | D TIERRA | 2.152 | 31.64 | 694.1 | ADECUADO COR | 1.559 | 32.68 | 465.6 |
| | VEGETAL | 1.995 | 40.52 | 584.7 | TERRAPLEN | 0.293 | 6.04 | 90.5 |
| | REV EXT TERR | 0.051 | 2.25 | 29.4 | EXC ESCALONADO | 0.000 | 0.10 | 2.1 |
| | TERR ESCALONADO | 0.000 | 0.10 | 2.1 | | | | |
| 280.000 | D TIERRA | 2.167 | 38.77 | 732.8 | ADECUADO COR | 1.536 | 31.69 | 497.3 |
| | VEGETAL | 1.956 | 39.92 | 624.6 | TERRAPLEN | 0.293 | 5.86 | 96.4 |
| | REV EXT TERR | 0.031 | 1.40 | 30.8 | | | | |
| 300.000 | D TIERRA | 5.749 | 71.20 | 804.0 | REVEST DESMON | 0.223 | 1.65 | 20.6 |
| | ADECUADO COR | 2.010 | 37.83 | 535.1 | VEGETAL | 2.320 | 42.93 | 667.5 |
| | TERRAPLEN | 0.023 | 2.53 | 98.9 | REV EXT TERR | 0.000 | 0.16 | 30.9 |
| 320.000 | D TIERRA | 15.089 | 197.98 | 1002.0 | REVEST DESMON | 0.649 | 8.64 | 29.3 |
| | ADECUADO COR | 2.010 | 40.20 | 575.3 | VEGETAL | 0.000 | 34.50 | 702.0 |
| | TERRAPLEN | 0.000 | 0.32 | 99.2 | | | | |
| 340.000 | D TIERRA | 19.842 | 381.74 | 1383.7 | REVEST DESMON | 0.907 | 17.09 | 46.4 |
| | ADECUADO COR | 2.010 | 40.20 | 615.5 | | | | |
| 360.000 | D TIERRA | 11.304 | 340.05 | 1723.8 | REVEST DESMON | 0.427 | 14.87 | 61.2 |
| | ADECUADO COR | 2.010 | 40.20 | 655.7 | | | | |
| 369.924 | D TIERRA | 4.438 | 78.11 | 1801.9 | REVEST DESMON | 0.031 | 2.27 | 63.5 |
| | ADECUADO COR | 1.915 | 19.48 | 675.2 | REV EXT TERR | 0.035 | 0.17 | 31.1 |

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PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 147 : CE 1.1 CI (F4-147.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 1801.9 |
| REVEST DESMON | 63.5 |
| ADECUADO COR | 675.2 |
| VEGETAL | 702.0 |
| TERRAPLEN | 99.2 |
| REV EXT TERR | 31.1 |
| EXC ESCALONADO | 2.1 |
| TERR ESCALONADO | 2.1 |

Istram 22.08.08.03 03/11/22 12:22:17 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 154 : CE 2.5 CI (F4-154.vol)

Istram 22.08.08.03 03/11/22 12:22:17 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 154 : CE 2.5 CI (F4-154.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 5.641 | 0.00 | 0.0 | REVEST DESMON | 0.148 | 0.00 | 0.0 |
| | ADECUADO COR | 2.050 | 0.00 | 0.0 | VEGETAL | 0.836 | 0.00 | 0.0 |
| | TERRAPLEN | 0.212 | 0.00 | 0.0 | REV EXT TERR | 0.069 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 5.715 | 108.17 | 108.2 | REVEST DESMON | 0.187 | 3.16 | 3.2 |
| | ADECUADO COR | 1.648 | 35.58 | 35.6 | VEGETAL | 0.981 | 15.05 | 15.1 |
| | TERRAPLEN | 0.282 | 2.79 | 2.8 | REV EXT TERR | 0.015 | 1.04 | 1.0 |
| 40.000 | D TIERRA | 2.797 | 85.38 | 193.5 | REVEST DESMON | 0.039 | 2.96 | 6.1 |
| | ADECUADO COR | 1.704 | 33.74 | 69.3 | VEGETAL | 2.096 | 30.26 | 45.3 |
| | TERRAPLEN | 0.292 | 5.78 | 8.6 | REV EXT TERR | 0.059 | 0.94 | 2.0 |
| 60.000 | D TIERRA | 1.109 | 39.71 | 233.3 | REVEST DESMON | 0.000 | 0.23 | 6.4 |
| | ADECUADO COR | 1.723 | 33.02 | 102.3 | VEGETAL | 2.486 | 46.67 | 92.0 |
| | TERRAPLEN | 0.391 | 7.15 | 15.7 | REV EXT TERR | 0.224 | 2.02 | 4.0 |
| 80.000 | D TIERRA | 0.632 | 12.07 | 245.3 | ADECUADO COR | 1.782 | 35.93 | 138.3 |
| | VEGETAL | 2.556 | 51.24 | 143.2 | TERRAPLEN | 0.390 | 10.05 | 25.8 |
| | REV EXT TERR | 0.262 | 5.69 | 9.7 | EXC ESCALONADO | 0.000 | 0.82 | 0.8 |
| | TERR ESCALONADO | 0.000 | 0.82 | 0.8 | | | | |
| 100.000 | D TIERRA | 1.106 | 18.78 | 264.1 | ADECUADO COR | 1.720 | 34.78 | 173.1 |
| | VEGETAL | 2.482 | 49.83 | 193.1 | TERRAPLEN | 0.353 | 7.29 | 33.1 |
| | REV EXT TERR | 0.239 | 4.82 | 14.5 | | | | |
| 120.000 | D TIERRA | 2.304 | 28.32 | 292.4 | ADECUADO COR | 1.592 | 33.88 | 206.9 |
| | VEGETAL | 2.440 | 49.56 | 242.6 | TERRAPLEN | 0.338 | 6.75 | 39.8 |
| | REV EXT TERR | 0.137 | 4.25 | 18.8 | | | | |
| 160.000 | D TIERRA | 3.833 | 136.01 | 428.4 | REVEST DESMON | 0.094 | 2.26 | 8.6 |
| | ADECUADO COR | 1.638 | 65.05 | 272.0 | VEGETAL | 2.333 | 94.16 | 336.8 |
| | TERRAPLEN | 0.292 | 11.92 | 51.7 | REV EXT TERR | 0.018 | 1.28 | 20.1 |
| 180.000 | D TIERRA | 5.088 | 84.14 | 512.6 | REVEST DESMON | 0.104 | 1.93 | 10.6 |
| | ADECUADO COR | 2.048 | 34.86 | 306.8 | VEGETAL | 2.880 | 48.76 | 385.5 |
| | TERRAPLEN | 0.405 | 6.41 | 58.1 | REV EXT TERR | 0.000 | 0.31 | 20.4 |
| 200.000 | D TIERRA | 4.955 | 104.43 | 617.0 | REVEST DESMON | 0.104 | 2.19 | 12.7 |
| | ADECUADO COR | 2.048 | 40.96 | 347.8 | VEGETAL | 3.021 | 61.01 | 446.5 |
| | TERRAPLEN | 0.406 | 7.82 | 66.0 | | | | |
| 220.000 | D TIERRA | 6.120 | 109.71 | 726.7 | REVEST DESMON | 0.152 | 2.47 | 15.2 |
| | ADECUADO COR | 2.048 | 40.96 | 388.8 | VEGETAL | 3.296 | 62.92 | 509.5 |
| | TERRAPLEN | 0.388 | 7.93 | 73.9 | | | | |
| 240.000 | D TIERRA | 13.596 | 191.99 | 918.7 | REVEST DESMON | 0.404 | 5.36 | 20.6 |
| | ADECUADO COR | 2.048 | 40.96 | 429.7 | VEGETAL | 3.735 | 70.21 | 579.7 |
| | TERRAPLEN | 0.328 | 6.95 | 80.8 | | | | |
| 260.000 | D TIERRA | 5.538 | 215.54 | 1134.2 | REVEST DESMON | 0.159 | 6.31 | 26.9 |
| | ADECUADO COR | 1.760 | 39.67 | 469.4 | VEGETAL | 2.782 | 69.13 | 648.8 |
| | TERRAPLEN | 0.321 | 6.55 | 87.4 | | | | |
| 280.000 | D TIERRA | 1.336 | 87.69 | 1221.9 | REVEST DESMON | 0.000 | 1.94 | 28.8 |
| | ADECUADO COR | 1.729 | 35.10 | 504.5 | VEGETAL | 2.061 | 28.03 | 676.8 |
| | TERRAPLEN | 0.386 | 4.62 | 92.0 | REV EXT TERR | 0.221 | 3.18 | 23.6 |
| | EXC ESCALONADO | 0.026 | 0.35 | 1.2 | TERR ESCALONADO | 0.026 | 0.35 | 1.2 |
| 300.000 | D TIERRA | 1.085 | 28.24 | 1250.2 | REVEST DESMON | 0.000 | 0.44 | 29.3 |
| | ADECUADO COR | 1.698 | 34.59 | 539.1 | VEGETAL | 2.514 | 48.93 | 725.8 |
| | TERRAPLEN | 0.363 | 7.78 | 99.8 | REV EXT TERR | 0.191 | 3.24 | 26.8 |
| | EXC ESCALONADO | 0.000 | 0.13 | 1.3 | TERR ESCALONADO | 0.000 | 0.13 | 1.3 |
| 320.000 | D TIERRA | 1.748 | 28.96 | 1279.1 | ADECUADO COR | 1.648 | 33.16 | 572.2 |
| | VEGETAL | 1.821 | 43.75 | 769.5 | TERRAPLEN | 0.293 | 6.31 | 106.1 |
| | REV EXT TERR | 0.160 | 3.07 | 29.9 | | | | |
| 340.000 | D TIERRA | 2.878 | 49.39 | 1328.5 | REVEST DESMON | 0.084 | 1.03 | 30.3 |
| | ADECUADO COR | 1.782 | 35.17 | 607.4 | VEGETAL | 1.384 | 29.58 | 799.1 |
| | TERRAPLEN | 0.293 | 5.85 | 112.0 | REV EXT TERR | 0.123 | 2.56 | 32.4 |
| 360.000 | D TIERRA | 3.071 | 61.26 | 1389.8 | REVEST DESMON | 0.057 | 1.73 | 32.0 |
| | ADECUADO COR | 1.743 | 35.35 | 642.8 | VEGETAL | 1.415 | 27.25 | 826.3 |
| | TERRAPLEN | 0.293 | 5.86 | 117.8 | REV EXT TERR | 0.103 | 2.22 | 34.7 |
| 380.000 | D TIERRA | 2.516 | 55.78 | 1445.6 | REVEST DESMON | 0.042 | 0.91 | 32.9 |
| | ADECUADO COR | 1.733 | 34.72 | 677.5 | VEGETAL | 1.723 | 32.14 | 858.5 |
| | TERRAPLEN | 0.293 | 5.85 | 123.7 | REV EXT TERR | 0.095 | 1.95 | 36.6 |
| 400.000 | D TIERRA | 2.303 | 47.34 | 1492.9 | REVEST DESMON | 0.049 | 0.94 | 33.9 |
| | ADECUADO COR | 1.751 | 34.92 | 712.4 | VEGETAL | 1.783 | 34.57 | 893.0 |
| | TERRAPLEN | 0.293 | 5.85 | 129.5 | REV EXT TERR | 0.109 | 2.10 | 38.7 |
| 420.000 | D TIERRA | 2.478 | 47.30 | 1540.2 | REVEST DESMON | 0.029 | 0.84 | 34.7 |
| | ADECUADO COR | 1.787 | 35.35 | 747.7 | VEGETAL | 1.388 | 33.03 | 926.1 |
| | TERRAPLEN | 0.365 | 6.16 | 135.7 | REV EXT TERR | 0.144 | 2.49 | 41.2 |
| | EXC ESCALONADO | 0.002 | 0.01 | 1.3 | TERR ESCALONADO | 0.002 | 0.01 | 1.3 |
| 440.000 | D TIERRA | 1.526 | 39.96 | 1580.2 | REVEST DESMON | 0.000 | 0.15 | 34.8 |
| | ADECUADO COR | 1.790 | 35.19 | 782.9 | VEGETAL | 1.292 | 27.74 | 953.8 |
| | TERRAPLEN | 0.810 | 10.91 | 146.6 | REV EXT TERR | 0.379 | 5.22 | 46.4 |
| | EXC ESCALONADO | 0.172 | 1.14 | 2.5 | TERR ESCALONADO | 0.172 | 1.14 | 2.5 |
| 460.000 | D TIERRA | 1.115 | 26.11 | 1606.3 | ADECUADO COR | 1.858 | 36.83 | 819.8 |
| | VEGETAL | 1.108 | 23.15 | 977.0 | TERRAPLEN | 1.062 | 17.34 | 163.9 |
| | REV EXT TERR | 0.459 | 8.88 | 55.3 | EXC ESCALONADO | 0.283 | 4.67 | 7.1 |
| | TERR ESCALONADO | 0.283 | 4.67 | 7.1 | | | | |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 480.000 | D TIERRA | 0.891 | 23.70 | 1630.0 | ADECUADO COR | 1.882 | 36.99 | 856.8 |
| | VEGETAL | 1.002 | 18.77 | 995.7 | TERRAPLEN | 1.447 | 24.16 | 188.1 |
| | REV EXT TERR | 0.537 | 9.16 | 64.4 | EXC ESCALONADO | 0.295 | 4.65 | 11.8 |
| | TERR ESCALONADO | 0.295 | 4.65 | 11.8 | | | | |
| 500.000 | D TIERRA | 2.907 | 45.67 | 1675.6 | ADECUADO COR | 1.837 | 36.64 | 893.4 |
| | VEGETAL | 0.270 | 23.01 | 1018.7 | TERRAPLEN | 0.298 | 19.58 | 207.7 |
| | REV EXT TERR | 0.397 | 8.20 | 72.7 | EXC ESCALONADO | 0.083 | 3.61 | 15.4 |
| | TERR ESCALONADO | 0.083 | 3.61 | 15.4 | | | | |
| 520.000 | D TIERRA | 3.960 | 65.07 | 1740.7 | ADECUADO COR | 1.724 | 35.54 | 928.9 |
| | VEGETAL | 1.308 | 18.97 | 1037.7 | TERRAPLEN | 0.208 | 4.76 | 212.4 |
| | REV EXT TERR | 0.220 | 5.98 | 78.6 | EXC ESCALONADO | 0.000 | 0.79 | 16.2 |
| | TERR ESCALONADO | 0.000 | 0.79 | 16.2 | | | | |
| 540.000 | D TIERRA | 4.549 | 84.36 | 1825.1 | REVEST DESMON | 0.511 | 2.06 | 36.9 |
| | ADECUADO COR | 1.779 | 33.81 | 962.8 | VEGETAL | 1.532 | 28.99 | 1066.7 |
| | TERRAPLEN | 0.279 | 5.22 | 217.6 | REV EXT TERR | 0.120 | 2.85 | 81.5 |
| | D TIERRA | 4.260 | 90.07 | 1915.1 | REVEST DESMON | 0.502 | 10.24 | 47.1 |
| 560.000 | ADECUADO COR | 1.786 | 35.53 | 998.3 | VEGETAL | 1.261 | 28.08 | 1094.8 |
| | TERRAPLEN | 0.239 | 5.28 | 222.9 | REV EXT TERR | 0.129 | 2.38 | 83.9 |
| | D TIERRA | 3.748 | 78.72 | 1993.9 | REVEST DESMON | 0.460 | 9.38 | 56.5 |
| 580.000 | ADECUADO COR | 1.813 | 36.00 | 1034.3 | VEGETAL | 1.154 | 23.48 | 1118.3 |
| | TERRAPLEN | 0.209 | 4.14 | 227.1 | REV EXT TERR | 0.161 | 2.91 | 86.8 |
| 600.000 | D TIERRA | 3.486 | 73.51 | 2067.4 | REVEST DESMON | 0.451 | 8.95 | 65.5 |
| | ADECUADO COR | 1.816 | 36.29 | 1070.6 | VEGETAL | 1.156 | 21.94 | 1140.2 |
| | TERRAPLEN | 0.222 | 3.28 | 230.3 | REV EXT TERR | 0.178 | 3.35 | 90.1 |
| 620.000 | D TIERRA | 4.632 | 78.73 | 2146.1 | REVEST DESMON | 0.440 | 8.78 | 74.3 |
| | ADECUADO COR | 1.822 | 36.43 | 1107.0 | VEGETAL | 0.161 | 13.26 | 1153.5 |
| | TERRAPLEN | 0.002 | 1.31 | 231.7 | REV EXT TERR | 0.182 | 3.76 | 93.9 |
| 640.000 | D TIERRA | 5.722 | 98.45 | 2244.5 | REVEST DESMON | 0.488 | 9.42 | 83.7 |
| | ADECUADO COR | 1.753 | 36.00 | 1143.0 | VEGETAL | 0.950 | 16.99 | 1170.4 |
| | TERRAPLEN | 0.046 | 2.20 | 233.8 | REV EXT TERR | 0.102 | 3.01 | 96.9 |
| | D TIERRA | 4.451 | 108.12 | 2352.7 | REVEST DESMON | 0.427 | 9.28 | 93.0 |
| 660.000 | ADECUADO COR | 1.729 | 34.29 | 1177.3 | VEGETAL | 1.003 | 20.03 | 1190.5 |
| | TERRAPLEN | 0.280 | 3.03 | 236.9 | REV EXT TERR | 0.081 | 1.38 | 98.3 |
| | D TIERRA | 6.198 | 97.57 | 2450.2 | REVEST DESMON | 0.288 | 7.10 | 100.1 |
| 680.000 | ADECUADO COR | 1.665 | 34.17 | 1211.5 | VEGETAL | 0.000 | 16.01 | 1206.5 |
| | TERRAPLEN | 0.000 | 4.31 | 241.2 | REV EXT TERR | 0.027 | 1.23 | 99.5 |
| 700.000 | D TIERRA | 3.273 | 114.33 | 2564.6 | REVEST DESMON | 0.142 | 5.11 | 105.2 |
| | ADECUADO COR | 1.813 | 33.69 | 1245.1 | VEGETAL | 0.914 | 3.88 | 1210.4 |
| | TERRAPLEN | 0.289 | 1.23 | 242.4 | REV EXT TERR | 0.171 | 0.99 | 100.5 |
| | EXC ESCALONADO | 0.007 | 0.03 | 16.2 | TERR ESCALONADO | 0.007 | 0.03 | 16.2 |
| 720.000 | D TIERRA | 1.601 | 42.31 | 2606.9 | REVEST DESMON | 0.000 | 0.71 | 105.9 |
| | ADECUADO COR | 1.746 | 34.98 | 1280.1 | VEGETAL | 1.051 | 19.63 | 1230.0 |
| | TERRAPLEN | 0.724 | 11.01 | 253.4 | REV EXT TERR | 0.318 | 5.44 | 105.9 |
| | EXC ESCALONADO | 0.150 | 1.95 | 18.2 | TERR ESCALONADO | 0.150 | 1.95 | 18.2 |
| 740.000 | D TIERRA | 2.327 | 35.94 | 2642.8 | ADECUADO COR | 1.705 | 34.53 | 1314.7 |
| | VEGETAL | 0.534 | 18.30 | 1248.3 | TERRAPLEN | 0.100 | 8.31 | 261.7 |
| | REV EXT TERR | 0.215 | 5.18 | 111.1 | EXC ESCALONADO | 0.000 | 1.23 | 19.4 |
| | TERR ESCALONADO | 0.000 | 1.23 | 19.4 | | | | |
| 760.000 | D TIERRA | 2.299 | 51.28 | 2694.1 | ADECUADO COR | 1.652 | 33.62 | 1348.3 |
| | VEGETAL | 1.106 | 9.56 | 1257.9 | TERRAPLEN | 0.282 | 2.10 | 263.8 |
| | REV EXT TERR | 0.162 | 3.77 | 114.9 | | | | |
| 780.000 | D TIERRA | 3.189 | 57.61 | 2751.7 | REVEST DESMON | 0.027 | 0.45 | 106.3 |
| | ADECUADO COR | 1.736 | 34.26 | 1382.5 | VEGETAL | 1.092 | 21.54 | 1279.4 |
| | TERRAPLEN | 0.282 | 5.64 | 269.5 | REV EXT TERR | 0.084 | 2.04 | 116.9 |
| 800.000 | D TIERRA | 3.919 | 75.36 | 2827.1 | REVEST DESMON | 0.056 | 0.84 | 107.2 |
| | ADECUADO COR | 1.733 | 34.73 | 1417.3 | VEGETAL | 0.302 | 8.53 | 1287.9 |
| | TERRAPLEN | 0.046 | 1.85 | 271.3 | REV EXT TERR | 0.082 | 1.69 | 118.6 |
| 820.000 | D TIERRA | 3.700 | 74.58 | 2901.6 | REVEST DESMON | 0.061 | 1.14 | 108.3 |
| | ADECUADO COR | 1.716 | 34.53 | 1451.8 | VEGETAL | 1.107 | 16.01 | 1303.9 |
| | TERRAPLEN | 0.282 | 4.19 | 275.5 | REV EXT TERR | 0.069 | 1.54 | 120.1 |
| | D TIERRA | 3.417 | 72.98 | 2974.6 | REVEST DESMON | 0.047 | 1.16 | 109.5 |
| 840.000 | ADECUADO COR | 1.711 | 34.1 | | | | | |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 154 : CE 2.5 CI (F4-154.vol1)

Istram 22.08.08.03 03/11/22 12:22:17 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 154 : CE 2.5 CI (F4-154.vol1)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 920.000 | D TIERRA | 2.160 | 63.77 | 3237.6 | ADECUADO COR | 1.755 | 35.63 | 1623.1 |
| | VEGETAL | 1.148 | 5.53 | 1424.2 | TERRAPLEN | 0.289 | 1.38 | 298.9 |
| | REV EXT TERR | 0.247 | 5.36 | 136.3 | EXC ESCALONADO | 0.003 | 0.01 | 19.4 |
| | TERR ESCALONADO | 0.003 | 0.01 | 19.4 | | | | |
| 940.000 | D TIERRA | 2.551 | 45.03 | 3282.6 | ADECUADO COR | 1.622 | 34.00 | 1657.1 |
| | VEGETAL | 1.242 | 24.43 | 1448.7 | TERRAPLEN | 0.282 | 6.32 | 305.2 |
| | REV EXT TERR | 0.098 | 3.90 | 140.2 | EXC ESCALONADO | 0.000 | 0.06 | 19.5 |
| | TERR ESCALONADO | 0.000 | 0.06 | 19.5 | | | | |
| 960.000 | D TIERRA | 3.353 | 59.98 | 3342.6 | REVEST DESMON | 0.040 | 0.42 | 110.5 |
| | ADECUADO COR | 1.691 | 33.69 | 1690.8 | VEGETAL | 1.443 | 26.56 | 1475.2 |
| | TERRAPLEN | 0.282 | 5.64 | 310.8 | REV EXT TERR | 0.049 | 1.40 | 141.6 |
| 980.000 | D TIERRA | 3.707 | 71.07 | 3413.6 | REVEST DESMON | 0.018 | 0.53 | 111.0 |
| | ADECUADO COR | 1.650 | 33.34 | 1724.1 | VEGETAL | 1.617 | 29.53 | 1504.8 |
| | TERRAPLEN | 0.282 | 5.64 | 316.5 | REV EXT TERR | 0.016 | 0.61 | 142.2 |
| 1000.000 | D TIERRA | 3.949 | 83.75 | 3497.4 | REVEST DESMON | 0.024 | 0.42 | 111.4 |
| | ADECUADO COR | 1.636 | 32.67 | 1756.8 | VEGETAL | 1.482 | 25.34 | 1530.1 |
| | TERRAPLEN | 0.282 | 4.62 | 321.1 | REV EXT TERR | 0.017 | 0.23 | 142.5 |
| 1020.000 | D TIERRA | 3.328 | 85.20 | 3582.6 | REVEST DESMON | 0.033 | 0.78 | 112.2 |
| | ADECUADO COR | 1.694 | 34.16 | 1790.9 | VEGETAL | 1.417 | 33.14 | 1563.2 |
| | TERRAPLEN | 0.282 | 6.72 | 327.8 | REV EXT TERR | 0.064 | 0.40 | 142.9 |
| 1040.000 | D TIERRA | 2.958 | 59.74 | 3642.3 | REVEST DESMON | 0.044 | 0.70 | 112.9 |
| | ADECUADO COR | 1.751 | 34.74 | 1825.7 | VEGETAL | 1.412 | 29.06 | 1592.3 |
| | TERRAPLEN | 0.282 | 5.65 | 333.4 | REV EXT TERR | 0.109 | 1.96 | 144.8 |
| 1060.000 | D TIERRA | 2.634 | 54.27 | 3696.6 | REVEST DESMON | 0.028 | 0.76 | 113.7 |
| | ADECUADO COR | 1.770 | 35.23 | 1860.9 | VEGETAL | 1.447 | 29.11 | 1621.4 |
| | TERRAPLEN | 0.282 | 5.65 | 339.1 | REV EXT TERR | 0.126 | 2.37 | 147.2 |
| 1080.000 | D TIERRA | 3.742 | 58.78 | 3755.4 | REVEST DESMON | 0.025 | 0.53 | 114.2 |
| | ADECUADO COR | 1.720 | 35.06 | 1896.0 | VEGETAL | 0.471 | 24.14 | 1645.5 |
| | TERRAPLEN | 0.078 | 4.63 | 343.7 | REV EXT TERR | 0.084 | 2.23 | 149.4 |
| 1100.000 | D TIERRA | 3.539 | 72.21 | 3827.6 | REVEST DESMON | 0.072 | 1.11 | 115.3 |
| | ADECUADO COR | 1.725 | 34.29 | 1930.2 | VEGETAL | 1.506 | 24.56 | 1670.1 |
| | TERRAPLEN | 0.282 | 4.62 | 348.3 | REV EXT TERR | 0.089 | 1.60 | 151.0 |
| 1120.000 | D TIERRA | 4.610 | 80.82 | 3908.4 | REVEST DESMON | 0.117 | 1.93 | 117.2 |
| | ADECUADO COR | 1.687 | 34.17 | 1964.4 | VEGETAL | 1.425 | 29.71 | 1699.8 |
| | TERRAPLEN | 0.282 | 5.64 | 354.0 | REV EXT TERR | 0.058 | 1.51 | 152.5 |
| 1140.000 | D TIERRA | 5.985 | 104.27 | 4012.7 | REVEST DESMON | 0.143 | 2.61 | 119.8 |
| | ADECUADO COR | 1.640 | 33.24 | 1997.7 | VEGETAL | 1.262 | 28.15 | 1728.0 |
| | TERRAPLEN | 0.282 | 5.64 | 359.6 | REV EXT TERR | 0.020 | 0.76 | 153.3 |
| 1160.000 | D TIERRA | 7.600 | 138.30 | 4151.0 | REVEST DESMON | 0.244 | 3.58 | 123.4 |
| | ADECUADO COR | 1.751 | 34.47 | 2032.1 | VEGETAL | 1.521 | 27.99 | 1756.0 |
| | TERRAPLEN | 0.385 | 6.62 | 366.2 | REV EXT TERR | 0.000 | 0.10 | 153.4 |
| 1180.000 | D TIERRA | 7.646 | 155.93 | 4306.9 | REVEST DESMON | 0.367 | 6.94 | 130.4 |
| | ADECUADO COR | 1.751 | 35.02 | 2067.2 | VEGETAL | 1.391 | 30.37 | 1786.3 |
| | TERRAPLEN | 0.331 | 7.33 | 373.6 | | | | |
| 1200.000 | D TIERRA | 6.390 | 137.48 | 4444.4 | REVEST DESMON | 0.435 | 7.59 | 138.0 |
| | ADECUADO COR | 1.631 | 33.13 | 2100.3 | VEGETAL | 1.137 | 23.88 | 1810.2 |
| | TERRAPLEN | 0.291 | 6.04 | 379.6 | REV EXT TERR | 0.029 | 0.14 | 153.5 |
| 1220.000 | D TIERRA | 4.787 | 116.41 | 4560.8 | REVEST DESMON | 0.338 | 7.90 | 145.9 |
| | ADECUADO COR | 1.672 | 32.97 | 2133.3 | VEGETAL | 1.159 | 23.54 | 1833.8 |
| | TERRAPLEN | 0.282 | 5.76 | 385.4 | REV EXT TERR | 0.048 | 0.79 | 154.3 |
| 1240.000 | D TIERRA | 1.549 | 50.72 | 4611.5 | REVEST DESMON | 0.000 | 1.69 | 147.5 |
| | ADECUADO COR | 1.774 | 34.45 | 2167.7 | VEGETAL | 0.992 | 24.68 | 1858.4 |
| | TERRAPLEN | 0.472 | 6.98 | 392.4 | REV EXT TERR | 0.308 | 4.50 | 158.8 |
| | EXC ESCALONADO | 0.076 | 0.74 | 20.2 | TERR ESCALONADO | 0.076 | 0.74 | 20.2 |
| 1260.000 | D TIERRA | 2.443 | 40.61 | 4652.1 | REVEST DESMON | 0.061 | 0.30 | 147.8 |
| | ADECUADO COR | 1.828 | 34.98 | 2202.7 | VEGETAL | 0.934 | 18.47 | 1876.9 |
| | TERRAPLEN | 0.399 | 8.75 | 401.1 | REV EXT TERR | 0.203 | 4.64 | 163.5 |
| | EXC ESCALONADO | 0.062 | 1.34 | 21.5 | TERR ESCALONADO | 0.062 | 1.34 | 21.5 |
| 1280.000 | D TIERRA | 3.892 | 61.67 | 4713.8 | REVEST DESMON | 0.083 | 6.34 | 154.2 |
| | ADECUADO COR | 1.758 | 35.91 | 2238.6 | VEGETAL | 0.241 | 16.20 | 1893.1 |
| | TERRAPLEN | 0.026 | 5.57 | 406.7 | REV EXT TERR | 0.105 | 2.94 | 166.4 |
| | EXC ESCALONADO | 0.000 | 0.31 | 21.8 | TERR ESCALONADO | 0.000 | 0.31 | 21.8 |
| 1300.000 | D TIERRA | 3.694 | 75.41 | 4789.2 | REVEST DESMON | 0.078 | 1.63 | 155.8 |
| | ADECUADO COR | 1.807 | 35.80 | 2274.4 | VEGETAL | 0.461 | 7.92 | 1901.0 |
| | TERRAPLEN | 0.100 | 1.50 | 408.2 | REV EXT TERR | 0.150 | 2.67 | 169.1 |
| 1320.000 | D TIERRA | 3.110 | 67.49 | 4856.7 | REVEST DESMON | 0.056 | 1.37 | 157.2 |
| | ADECUADO COR | 1.802 | 36.10 | 2310.5 | VEGETAL | 1.314 | 19.13 | 1920.2 |
| | TERRAPLEN | 0.369 | 5.74 | 413.9 | REV EXT TERR | 0.143 | 2.94 | 172.0 |
| | EXC ESCALONADO | 0.013 | 0.11 | 22.0 | TERR ESCALONADO | 0.013 | 0.11 | 22.0 |
| 1340.000 | D TIERRA | 1.977 | 52.87 | 4909.6 | REVEST DESMON | 0.000 | 0.60 | 157.8 |
| | ADECUADO COR | 1.699 | 35.52 | 2346.0 | VEGETAL | 1.492 | 27.81 | 1948.0 |
| | TERRAPLEN | 0.414 | 7.78 | 421.7 | REV EXT TERR | 0.203 | 3.16 | 175.2 |
| | EXC ESCALONADO | 0.019 | 0.31 | 22.3 | TERR ESCALONADO | 0.019 | 0.31 | 22.3 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 1360.000 | D TIERRA | 1.197 | 29.57 | 4939.1 | ADECUADO COR | 1.756 | 34.70 | 2380.7 |
| | VEGETAL | 1.847 | 34.53 | 1982.5 | TERRAPLEN | 0.861 | 14.16 | 435.8 |
| | REV EXT TERR | 0.299 | 5.25 | 180.4 | EXC ESCALONADO | 0.118 | 1.55 | 23.8 |
| | TERR ESCALONADO | 0.118 | 1.55 | 23.8 | | | | |
| 1380.000 | D TIERRA | 0.953 | 21.36 | 4960.5 | ADECUADO COR | 1.805 | 35.58 | 2416.3 |
| | VEGETAL | 1.932 | 37.65 | 2020.1 | TERRAPLEN | 1.030 | 19.30 | 455.1 |
| | REV EXT TERR | 0.349 | 6.48 | 186.9 | EXC ESCALONADO | 0.123 | 2.43 | 26.2 |
| | TERR ESCALONADO | 0.123 | 2.43 | 26.2 | | | | |
| 1400.000 | D TIERRA | 1.034 | 20.03 | 4980.5 | ADECUADO COR | 1.817 | 36.19 | 2452.5 |
| | VEGETAL | 2.142 | 44.47 | 2064.6 | TERRAPLEN | 0.751 | 15.25 | 470.4 |
| | REV EXT TERR | 0.320 | 6.35 | 193.3 | EXC ESCALONADO | 0.026 | 1.41 | 27.7 |
| | TERR ESCALONADO | 0.026 | 1.41 | 27.7 | | | | |
| 1420.000 | D TIERRA | 1.012 | 21.54 | 5002.1 | ADECUADO COR | 1.784 | 36.05 | 2488.5 |
| | VEGETAL | 2.141 | 40.29 | 2104.9 | TERRAPLEN | 0.894 | 18.46 | 488.8 |
| | REV EXT TERR | 0.316 | 6.64 | 199.9 | EXC ESCALONADO | 0.114 | 1.81 | 29.5 |
| | TERR ESCALONADO | 0.114 | 1.81 | 29.5 | | | | |
| 1440.000 | D TIERRA | 1.527 | 26.42 | 5028.5 | ADECUADO COR | 1.732 | 35.33 | 2523.9 |
| | VEGETAL | 1.829 | 38.53 | 2143.4 | TERRAPLEN | 0.575 | 13.12 | 502.0 |
| | REV EXT TERR | 0.256 | 5.72 | 205.6 | EXC ESCALONADO | 0.095 | 2.75 | 32.2 |
| | TERR ESCALONADO | 0.095 | 2.75 | 32.2 | | | | |
| 1460.000 | D TIERRA | 1.882 | 34.26 | 5062.7 | ADECUADO COR | 1.706 | 34.27 | 2558.1 |
| | VEGETAL | 1.786 | 36.11 | 2179.6 | TERRAPLEN | 0.337 | 9.76 | 511.7 |
| | REV EXT TERR | 0.212 | 4.62 | 210.2 | EXC ESCALONADO | 0.013 | 1.25 | 33.5 |
| | TERR ESCALONADO | 0.013 | 1.25 | 33.5 | | | | |
| 1480.000 | D TIERRA | 2.599 | 45.05 | 5107.8 | ADECUADO COR | 1.643 | 33.37 | 2591.5 |
| | VEGETAL | 1.704 | 35.31 | 2214.9 | TERRAPLEN | 0.292 | 6.08 | 517.8 |
| | REV EXT TERR | 0.151 | 3.51 | 213.7 | EXC ESCALONADO | 0.000 | 0.06 | 33.5 |
| | TERR ESCALONADO | 0.000 | 0.06 | 33.5 | | | | |
| 1500.000 | D TIERRA | 3.551 | 61.54 | 5169.3 | REVEST DESMON | 0.071 | 0.68 | 158.5 |
| | ADECUADO COR | 1.742 | 34.38 | 2625.9 | VEGETAL | 1.634 | 33.54 | 2248.4 |
| | TERRAPLEN | 0.298 | 5.87 | 523.7 | REV EXT TERR | 0.090 | 2.12 | 215.9 |
| 1520.000 | D TIERRA | 6.635 | 85.19 | 5254.5 | REVEST DESMON | 0.197 | 2.61 | 161.1 |
| | ADECUADO COR | 1.681 | 34.71 | 2660.6 | VEGETAL | 1.773 | 32.54 | 2280.9 |
| | TERRAPLEN | 0.310 | 6.00 | 529.7 | REV EXT TERR | 0.028 | 1.63 | 217.5 |
| 1540.000 | D TIERRA | 5.490 | 109.24 | 5363.7 | REVEST DESMON | 0.548 | 7.17 | 168.3 |
| | ADECUADO COR | 1.719 | 33.47 | 2694.1 | VEGETAL | 1.428 | 33.76 | 2314.7 |
| | TERRAPLEN | 0.242 | 6.02 | 535.7 | REV EXT TERR | 0.068 | 0.50 | 218.0 |
| 1560.000 | D TIERRA | 4.926 | 96.87 | 5460.6 | REVEST DESMON | 0.000 | 8.66 | 176.9 |
| | ADECUADO COR | 1.602 | 34.06 | 2728.1 | VEGETAL | 0.530 | 25.74 | 2340.4 |
| | TERRAPLEN | 0.059 | 4.64 | 540.3 | REV EXT TERR | 0.100 | 1.77 | 219.8 |
| 1580.000 | D TIERRA | 5.039 | 101.50 | 5562.1 | ADECUADO COR | 1.622 | 32.21 | 2760.3 |
| | VEGETAL | 0.484 | 10.20 | 2350.6 | TERRAPLEN | 0.042 | 0.98 | 541.3 |
| | REV EXT TERR | 0.092 | 1.90 | 221.7 | | | | |
| 1600.000 | D TIERRA | 3.756 | 82.58 | 5644.7 | ADECUADO COR | 1.696 | 33.16 | 2793.5 |
| | VEGETAL | 0.229 | 14.60 | 2365.2 | TERRAPLEN | 0.013 | 2.56 | 543.9 |
| | REV EXT TERR | 0.163 | 2.58 | 224.2 | | | | |

Istram 22.08.08.03 03/11/22 12:22:17 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 154 : CE 2.5 CI (F4-154.vol)

Istram 22.08.08.03 03/11/22 12:22:17 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 154 : CE 2.5 CI (F4-154.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 1800.000 | D TIERRA | 2.010 | 41.92 | 6419.9 | ADECUADO COR | 1.793 | 35.49 | 3141.4 |
| | VEGETAL | 0.181 | 3.39 | 2390.3 | TERRAPLEN | 0.047 | 1.32 | 563.2 |
| | REV EXT TERR | 0.332 | 6.45 | 269.0 | EXC ESCALONADO | 0.005 | 0.18 | 37.1 |
| | TERR ESCALONADO | 0.005 | 0.18 | 37.1 | | | | |
| 1820.000 | D TIERRA | 1.333 | 31.37 | 6451.2 | ADECUADO COR | 1.839 | 36.39 | 3177.8 |
| | VEGETAL | 0.774 | 11.33 | 2401.6 | TERRAPLEN | 0.325 | 3.90 | 567.1 |
| | REV EXT TERR | 0.372 | 7.06 | 276.1 | EXC ESCALONADO | 0.011 | 0.32 | 37.4 |
| | TERR ESCALONADO | 0.011 | 0.32 | 37.4 | | | | |
| 1840.000 | D TIERRA | 1.712 | 28.86 | 6480.1 | ADECUADO COR | 1.773 | 36.28 | 3214.1 |
| | VEGETAL | 0.865 | 15.55 | 2417.2 | TERRAPLEN | 0.508 | 8.25 | 575.3 |
| | REV EXT TERR | 0.365 | 7.76 | 283.8 | EXC ESCALONADO | 0.168 | 2.43 | 39.8 |
| | TERR ESCALONADO | 0.168 | 2.43 | 39.8 | | | | |
| 1860.000 | D TIERRA | 2.679 | 48.77 | 6528.9 | ADECUADO COR | 1.709 | 34.32 | 3248.4 |
| | VEGETAL | 1.270 | 22.16 | 2439.4 | TERRAPLEN | 0.451 | 7.76 | 583.1 |
| | REV EXT TERR | 0.228 | 4.98 | 288.8 | EXC ESCALONADO | 0.007 | 0.91 | 40.7 |
| | TERR ESCALONADO | 0.007 | 0.91 | 40.7 | | | | |
| 1880.000 | D TIERRA | 2.606 | 52.02 | 6580.9 | ADECUADO COR | 1.791 | 34.98 | 3283.4 |
| | VEGETAL | 0.502 | 15.15 | 2454.5 | TERRAPLEN | 0.102 | 4.10 | 587.2 |
| | REV EXT TERR | 0.295 | 5.24 | 294.0 | EXC ESCALONADO | 0.000 | 0.04 | 40.8 |
| | TERR ESCALONADO | 0.000 | 0.04 | 40.8 | | | | |
| 1900.000 | D TIERRA | 1.931 | 60.06 | 6641.0 | REVEST DESMON | 0.000 | 1.41 | 182.9 |
| | ADECUADO COR | 1.830 | 36.25 | 3319.6 | VEGETAL | 0.965 | 14.90 | 2469.4 |
| | TERRAPLEN | 0.349 | 3.85 | 591.0 | REV EXT TERR | 0.341 | 4.79 | 298.8 |
| | EXC ESCALONADO | 0.053 | 0.26 | 41.0 | TERR ESCALONADO | 0.053 | 0.26 | 41.0 |
| 1920.000 | D TIERRA | 0.855 | 35.46 | 6676.4 | ADECUADO COR | 1.893 | 36.98 | 3356.6 |
| | VEGETAL | 0.966 | 10.40 | 2479.8 | TERRAPLEN | 0.672 | 5.33 | 596.4 |
| | REV EXT TERR | 0.457 | 7.69 | 306.5 | EXC ESCALONADO | 0.161 | 1.06 | 42.1 |
| | TERR ESCALONADO | 0.161 | 1.06 | 42.1 | | | | |
| 1940.000 | D TIERRA | 1.695 | 26.21 | 6702.6 | ADECUADO COR | 1.868 | 37.72 | 3394.3 |
| | VEGETAL | 0.115 | 5.75 | 2485.6 | TERRAPLEN | 0.305 | 7.60 | 604.0 |
| | REV EXT TERR | 0.433 | 9.04 | 315.6 | EXC ESCALONADO | 0.036 | 1.20 | 43.3 |
| | TERR ESCALONADO | 0.036 | 1.20 | 43.3 | | | | |
| 1960.000 | D TIERRA | 2.003 | 40.29 | 6742.9 | ADECUADO COR | 1.842 | 36.92 | 3431.3 |
| | VEGETAL | 0.801 | 6.69 | 2492.3 | TERRAPLEN | 0.217 | 4.01 | 608.0 |
| | REV EXT TERR | 0.356 | 7.72 | 323.3 | EXC ESCALONADO | 0.029 | 0.31 | 43.6 |
| | TERR ESCALONADO | 0.029 | 0.31 | 43.6 | | | | |
| 1980.000 | D TIERRA | 3.014 | 54.93 | 6797.8 | ADECUADO COR | 1.747 | 35.92 | 3467.2 |
| | VEGETAL | 1.240 | 14.41 | 2506.7 | TERRAPLEN | 0.303 | 3.33 | 611.3 |
| | REV EXT TERR | 0.250 | 6.05 | 329.3 | EXC ESCALONADO | 0.012 | 0.20 | 43.8 |
| | TERR ESCALONADO | 0.012 | 0.20 | 43.8 | | | | |
| 2000.000 | D TIERRA | 4.204 | 72.61 | 6870.5 | ADECUADO COR | 1.676 | 34.13 | 3501.3 |
| | VEGETAL | 0.295 | 14.51 | 2521.2 | TERRAPLEN | 0.046 | 2.95 | 614.3 |
| | REV EXT TERR | 0.154 | 4.14 | 333.5 | EXC ESCALONADO | 0.000 | 0.06 | 43.9 |
| | TERR ESCALONADO | 0.000 | 0.06 | 43.9 | | | | |
| 2020.000 | D TIERRA | 5.420 | 93.76 | 6964.2 | REVEST DESMON | 0.033 | 0.42 | 183.3 |
| | ADECUADO COR | 1.795 | 35.41 | 3536.7 | VEGETAL | 0.246 | 9.22 | 2530.4 |
| | TERRAPLEN | 0.035 | 1.48 | 615.7 | REV EXT TERR | 0.136 | 2.93 | 336.4 |
| | TERR ESCALONADO | 0.035 | 1.48 | 615.7 | | | | |
| 2040.000 | D TIERRA | 4.248 | 97.02 | 7061.2 | REVEST DESMON | 0.029 | 0.66 | 184.0 |
| | ADECUADO COR | 1.812 | 35.92 | 3572.6 | VEGETAL | 1.768 | 23.11 | 2553.5 |
| | TERRAPLEN | 0.470 | 4.76 | 620.5 | REV EXT TERR | 0.157 | 2.75 | 339.2 |
| | EXC ESCALONADO | 0.002 | 0.01 | 43.9 | TERR ESCALONADO | 0.002 | 0.01 | 43.9 |
| 2060.000 | D TIERRA | 3.941 | 79.90 | 7141.1 | REVEST DESMON | 0.000 | 0.15 | 184.1 |
| | ADECUADO COR | 1.728 | 34.69 | 3607.3 | VEGETAL | 1.787 | 35.62 | 2589.1 |
| | TERRAPLEN | 0.626 | 11.06 | 631.6 | REV EXT TERR | 0.246 | 4.25 | 343.4 |
| | EXC ESCALONADO | 0.006 | 0.09 | 44.0 | TERR ESCALONADO | 0.006 | 0.09 | 44.0 |
| 2080.000 | D TIERRA | 4.634 | 83.09 | 7224.2 | ADECUADO COR | 1.796 | 35.30 | 3642.6 |
| | VEGETAL | 0.806 | 28.43 | 2617.6 | TERRAPLEN | 0.192 | 9.21 | 640.8 |
| | REV EXT TERR | 0.290 | 5.49 | 348.9 | EXC ESCALONADO | 0.000 | 0.31 | 44.3 |
| | TERR ESCALONADO | 0.000 | 0.31 | 44.3 | | | | |
| 2100.000 | D TIERRA | 3.918 | 79.43 | 7303.7 | ADECUADO COR | 1.825 | 36.87 | 3679.5 |
| | VEGETAL | 1.104 | 14.12 | 2631.7 | TERRAPLEN | 0.235 | 2.43 | 643.2 |
| | REV EXT TERR | 0.347 | 7.02 | 355.9 | EXC ESCALONADO | 0.038 | 0.19 | 44.5 |
| | TERR ESCALONADO | 0.038 | 0.19 | 44.5 | | | | |
| 2120.000 | D TIERRA | 4.580 | 84.04 | 7387.7 | ADECUADO COR | 1.712 | 35.41 | 3714.9 |
| | VEGETAL | 1.804 | 31.27 | 2662.9 | TERRAPLEN | 0.890 | 13.41 | 656.6 |
| | REV EXT TERR | 0.278 | 6.26 | 362.2 | EXC ESCALONADO | 0.064 | 0.97 | 45.4 |
| | TERR ESCALONADO | 0.064 | 0.97 | 45.4 | | | | |
| 2140.000 | D TIERRA | 5.580 | 102.52 | 7490.2 | REVEST DESMON | 0.008 | 0.20 | 184.3 |
| | ADECUADO COR | 1.830 | 36.01 | 3750.9 | VEGETAL | 0.786 | 29.52 | 2692.5 |
| | TERRAPLEN | 0.201 | 13.84 | 670.4 | REV EXT TERR | 0.220 | 4.76 | 367.0 |
| | EXC ESCALONADO | 0.033 | 0.88 | 46.3 | TERR ESCALONADO | 0.033 | 0.88 | 46.3 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 2160.000 | D TIERRA | 5.779 | 110.10 | 7600.3 | REVEST DESMON | 0.039 | 0.44 | 184.8 |
| | ADECUADO COR | 1.830 | 36.60 | 3787.5 | VEGETAL | 1.878 | 31.95 | 2724.4 |
| | TERRAPLEN | 0.915 | 14.79 | 685.2 | REV EXT TERR | 0.228 | 4.51 | 371.5 |
| | EXC ESCALONADO | 0.066 | 1.18 | 47.5 | TERR ESCALONADO | 0.066 | 1.18 | 47.5 |
| 2180.000 | D TIERRA | 6.468 | 126.19 | 7726.5 | REVEST DESMON | 0.015 | 0.45 | 185.2 |
| | ADECUADO COR | 1.830 | 36.60 | 3824.1 | VEGETAL | 0.498 | 15.45 | 2739.9 |
| | TERRAPLEN | 0.160 | 7.00 | 692.2 | REV EXT TERR | 0.226 | 4.60 | 376.1 |
| | EXC ESCALONADO | 0.024 | 0.70 | 48.2 | TERR ESCALONADO | 0.024 | 0.70 | 48.2 |
| 2200.000 | D TIERRA | 6.295 | 134.55 | 7861.1 | REVEST DESMON | 0.000 | 0.22 | 185.5 |
| | ADECUADO COR | 1.768 | 36.29 | 3860.4 | VEGETAL | 1.958 | 14.62 | 2754.5 |
| | TERRAPLEN | 0.564 | 3.90 | 696.1 | REV EXT TERR | 0.278 | 4.60 | 380.7 |
| | EXC ESCALONADO | 0.016 | 0.21 | 48.4 | TERR ESCALONADO | 0.016 | 0.21 | 48.4 |
| 2220.000 | D TIERRA | 6.862 | 131.99 | 7993.1 | ADECUADO COR | 1.732 | 35.17 | 3895.6 |
| | VEGETAL | 1.937 | 38.75 | 2793.2 | TERRAPLEN | 0.677 | 11.85 | 708.0 |
| | REV EXT TERR | 0.267 | 5.55 | 386.2 | EXC ESCALONADO | 0.031 | 0.44 | 48.9 |
| | TERR ESCALONADO | 0.031 | 0.44 | 48.9 | | | | |
| 2240.000 | D TIERRA | 7.440 | 140.60 | 8133.7 | REVEST DESMON | 0.019 | 0.10 | 185.6 |
| | ADECUADO COR | 1.830 | 34.91 | 3930.5 | VEGETAL | 2.066 | 39.25 | 2832.5 |
| | TERRAPLEN | 0.843 | 16.33 | 724.3 | REV EXT TERR | 0.204 | 5.06 | 391.3 |
| | EXC ESCALONADO | 0.019 | 0.49 | 49.4 | TERR ESCALONADO | 0.019 | 0.49 | 49.4 |
| 2260.000 | D TIERRA | 8.230 | 156.18 | 8289.8 | REVEST DESMON | 0.061 | 0.80 | 186.4 |
| | ADECUADO COR | 1.822 | 36.54 | 3967.0 | VEGETAL | 2.343 | 43.86 | 2876.3 |
| | TERRAPLEN | 0.793 | 16.50 | 740.8 | REV EXT TERR | 0.175 | 3.85 | 395.1 |
| | EXC ESCALONADO | 0.060 | 0.58 | 49.9 | TERR ESCALONADO | 0.060 | 0.58 | 49.9 |
| 2280.000 | D TIERRA | 10.330 | 194.91 | 8484.7 | REVEST DESMON | 0.085 | 1.54 | 187.9 |
| | ADECUADO COR | 1.753 | 35.09 | 4002.1 | VEGETAL | 2.332 | 46.17 | 2922.5 |
| | TERRAPLEN | 0.293 | 8.36 | 749.2 | REV EXT TERR | 0.099 | 2.11 | 397.2 |
| | EXC ESCALONADO | 0.000 | 0.30 | 50.2 | TERR ESCALONADO | 0.000 | 0.30 | 50.2 |
| 2300.000 | D TIERRA | 11.745 | 222.66 | 8707.4 | REVEST DESMON | 0.112 | 1.88 | 189.8 |
| | ADECUADO COR | 1.722 | 34.59 | 4036.7 | VEGETAL | 2.385 | 47.33 | 2969.8 |
| | TERRAPLEN | 0.292 | 5.85 | 755.0 | REV EXT TERR | 0.073 | 1.58 | 398.8 |
| | EXC ESCALONADO | 0.000 | 0.30 | 50.2 | TERR ESCALONADO | 0.000 | 0.30 | 50.2 |
| 2320.000 | D TIERRA | 11.487 | 228.97 | 8936.4 | REVEST DESMON | 0.115 | 2.37 | 192.2 |
| | ADECUADO COR | 1.762 | 34.98 | 4071.7 | VEGETAL | 2.425 | 49.87 | 3019.7 |
| | TERRAPLEN | 0.293 | 5.85 | 760.9 | REV EXT TERR | 0.105 | 1.89 | 400.7 |
| | EXC ESCALONADO | 0.000 | 0.30 | 50.2 | TERR ESCALONADO | 0.000 | 0.30 | 50.2 |
| 2340.000 | D TIERRA | 11.406 | 230.63 | 9167.0 | REVEST DESMON | 0.133 | 2.42 | 194.6 |
| | ADECUADO COR | 1.783 | 35.48 | 4107.2 | VEGETAL | 2.571 | 49.43 | 3069.1 |
| | TERRAPLEN | 0.293 | 5.86 | 766.7 | REV EXT TERR | 0.123 | 2.30 | 403.0 |
| | EXC ESCALONADO | 0.000 | 0.30 | 50.2 | TERR ESCALONADO | 0.000 | 0.30 | 50.2 |
| 2360.000 | D TIERRA | 10.993 | 223.01 | 9390.0 | REVEST DESMON | 0.000 | 1.83 | 196.4 |
| | ADECUADO COR | 1.717 | 35.22 | 4142.4 | VEGETAL | 2.838 | 55.26 | 3124.4 |
| | TERRAPLEN | 0.294 | 5.86 | 772.6 | REV EXT TERR | 0.220 | 2.93 | 405.9 |
| | EXC ESCALONADO | 0.000 | 0.30 | 50.2 | TERR ESCALONADO | 0.000 | 0.30 | 50.2 |
| 2380.000 | D TIERRA | 13.571 | 235.13 | 9625.2 | ADECUADO COR | 1.816 | 34.89 | 4177.3 |
| | VEGETAL | 0.000 | 42.66 | 3167.1 | TERRAPLEN | 0.000 | 4.37 | 777.0 |
| | REV EXT TERR | 0.231 | 4.74 | 410.7 | | | | |
| 2383.817 | D TIERRA | 16.499 | 69.06 | 9694.2 | ADECUADO COR | 0.001 | 9.53 | 4186.8 |
| | | | | | | | | |

Istram 22.08.08.03 03/11/22 12:22:18 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 159 : ENLACE FIGUERES R7 (F4-159.vol)

Istram 23.03.03.01 13/03/23 12:07:18 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 160 : AVDA. DE L'EMPORDÀ (PI 0.4) (F4-160.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 660.000 | D TIERRA | 7.404 | 42.79 | 42.8 | ADECUADO COR | 6.908 | 38.38 | 38.4 |
| | SUELO EST 3 | 4.134 | 23.00 | 23.0 | VEGETAL | 3.456 | 19.20 | 19.2 |
| | REV EXT TERR | 0.193 | 0.98 | 1.0 | | | | |
| 680.000 | D TIERRA | 4.026 | 116.68 | 159.5 | ADECUADO COR | 7.182 | 141.25 | 179.6 |
| | SUELO EST 3 | 4.155 | 83.15 | 106.1 | VEGETAL | 3.628 | 70.83 | 90.0 |
| | TERRAPLEN | 0.054 | 0.11 | 0.1 | REV EXT TERR | 0.359 | 5.49 | 6.5 |
| | EXC ESCALONADO | 0.005 | 0.01 | 0.0 | TERR ESCALONADO | 0.005 | 0.01 | 0.0 |
| 700.000 | SANEADO | 8.398 | 35.63 | 35.6 | D TIERRA | 2.505 | 54.65 | 214.1 |
| | ADECUADO COR | 7.233 | 145.14 | 324.8 | SUELO EST 3 | 4.177 | 83.25 | 189.4 |
| | VEGETAL | 0.000 | 33.04 | 123.1 | TERRAPLEN | 5.217 | 80.70 | 80.8 |
| | REV EXT TERR | 0.480 | 11.09 | 17.6 | EXC ESCALONADO | 0.189 | 11.02 | 11.0 |
| | TERR ESCALONADO | 0.189 | 11.02 | 11.0 | | | | |
| 720.000 | SANEADO | 12.684 | 228.62 | 264.3 | D TIERRA | 1.842 | 14.96 | 229.1 |
| | REVEST DESMON | 0.032 | 0.09 | 0.1 | ADECUADO COR | 7.228 | 142.02 | 466.8 |
| | SUELO EST 3 | 4.173 | 82.14 | 271.5 | TERRAPLEN | 4.633 | 79.13 | 160.0 |
| | REV EXT TERR | 0.898 | 8.25 | 25.8 | EXC ESCALONADO | 0.793 | 3.72 | 14.7 |
| | TERR ESCALONADO | 0.793 | 3.72 | 14.7 | | | | |
| 740.000 | SANEADO | 5.658 | 172.58 | 436.8 | D TIERRA | 2.349 | 37.41 | 266.5 |
| | REVEST DESMON | 0.122 | 1.76 | 1.9 | ADECUADO COR | 6.103 | 135.27 | 602.1 |
| | SUELO EST 3 | 3.492 | 77.85 | 349.4 | TERRAPLEN | 1.767 | 86.28 | 246.2 |
| | REV EXT TERR | 0.000 | 8.90 | 34.7 | EXC ESCALONADO | 0.285 | 11.62 | 26.4 |
| | TERR ESCALONADO | 0.285 | 11.62 | 26.4 | | | | |
| 760.000 | SANEADO | 0.000 | 29.18 | 466.0 | D TIERRA | 7.652 | 110.77 | 377.3 |
| | REVEST DESMON | 0.000 | 0.65 | 2.5 | ADECUADO COR | 6.058 | 121.93 | 724.0 |
| | SUELO EST 3 | 3.443 | 69.16 | 418.6 | TERRAPLEN | 0.000 | 8.29 | 254.5 |
| | EXC ESCALONADO | 0.000 | 1.05 | 27.4 | TERR ESCALONADO | 0.000 | 1.05 | 27.4 |
| 780.000 | D TIERRA | 9.059 | 170.22 | 547.5 | ADECUADO COR | 6.070 | 122.08 | 846.1 |
| | SUELO EST 3 | 3.513 | 69.64 | 488.2 | | | | |
| 800.000 | D TIERRA | 10.997 | 198.32 | 745.8 | ADECUADO COR | 6.141 | 123.29 | 969.4 |
| | SUELO EST 3 | 3.561 | 70.85 | 559.1 | | | | |
| 820.000 | D TIERRA | 12.363 | 234.15 | 980.0 | ADECUADO COR | 6.064 | 122.33 | 1091.7 |
| | SUELO EST 3 | 3.613 | 71.82 | 630.9 | | | | |
| 840.000 | D TIERRA | 14.043 | 260.36 | 1240.3 | REVEST DESMON | 0.019 | 0.02 | 2.5 |
| | ADECUADO COR | 6.275 | 120.39 | 1212.1 | SUELO EST 3 | 3.763 | 72.04 | 702.9 |

Istram 22.08.08.03 03/11/22 12:22:18 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 159 : ENLACE FIGUERES R7 (F4-159.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|-----------------|---------|
| SANEADO | 466.0 |
| D TIERRA | 1240.3 |
| REVEST DESMON | 2.5 |
| ADECUADO COR | 1212.1 |
| SUELO EST 3 | 702.9 |
| VEGETAL | 123.1 |
| TERRAPLEN | 254.5 |
| REV EXT TERR | 34.7 |
| EXC ESCALONADO | 27.4 |
| TERR ESCALONADO | 27.4 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|----------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | TERRAPLEN | 5.088 | 0.00 | 0.0 | EXCAVA SANEADO | 0.116 | 0.00 | 0.0 |
| | FIRME | 3.041 | 0.00 | 0.0 | TERRAP SANEADO | 0.116 | 0.00 | 0.0 |
| | SUELO SEL2 | 5.463 | 0.00 | 0.0 | | | | |
| 20.000 | TERRAPLEN | 13.283 | 194.66 | 194.7 | EXCAVA SANEADO | 0.697 | 7.70 | 7.7 |
| | FIRME | 3.041 | 60.81 | 60.8 | TERRAP SANEADO | 0.697 | 7.70 | 7.7 |
| | SUELO SEL2 | 5.463 | 109.26 | 109.3 | | | | |
| 40.000 | TERRAPLEN | 8.689 | 224.20 | 418.9 | EXCAVA SANEADO | 0.211 | 6.46 | 14.2 |
| | FIRME | 3.041 | 60.81 | 121.6 | TERRAP SANEADO | 0.211 | 6.46 | 14.2 |
| | SUELO SEL2 | 5.463 | 109.26 | 218.5 | | | | |
| 60.000 | D TIERRA | 0.000 | 0.04 | 0.0 | TERRAPLEN | 11.409 | 180.85 | 599.7 |
| | EXCAVA SANEADO | 0.938 | 9.99 | 24.2 | FIRME | 3.040 | 60.80 | 182.4 |
| | TERRAP SANEADO | 0.938 | 9.99 | 24.2 | SUELO SEL2 | 5.460 | 109.06 | 327.6 |
| 80.000 | D TIERRA | 2.668 | 384.24 | 384.3 | TERRAPLEN | 6.705 | 78.03 | 677.7 |
| | EXCAVA SANEADO | 1.142 | 8.52 | 32.7 | FIRME | 3.088 | 62.09 | 244.5 |
| | TERRAP SANEADO | 1.142 | 8.52 | 32.7 | SUELO SEL2 | 5.068 | 98.93 | 426.5 |
| 100.000 | D TIERRA | 0.000 | 1.33 | 385.6 | TERRAPLEN | 4.764 | 156.98 | 834.7 |
| | EXCAVA SANEADO | 0.152 | 6.65 | 39.3 | FIRME | 2.903 | 54.58 | 299.1 |
| | TERRAP SANEADO | 0.152 | 6.65 | 39.3 | SUELO SEL2 | 4.523 | 92.07 | 518.6 |
| | SUELO SEL1 | 2.714 | 22.60 | 22.6 | | | | |
| 120.000 | D TIERRA | 7.296 | 69.80 | 455.4 | TERRAPLEN | 1.109 | 50.29 | 885.0 |
| | EXCAVA SANEADO | 0.032 | 1.96 | 41.3 | FIRME | 3.256 | 61.53 | 360.6 |
| | TERRAP SANEADO | 0.032 | 1.96 | 41.3 | SUELO SEL2 | 5.075 | 95.89 | 614.5 |
| | SUELO SEL1 | 3.045 | 57.54 | 80.1 | | | | |
| 140.000 | D TIERRA | 14.914 | 205.06 | 660.5 | TERRAPLEN | 0.000 | 8.99 | 894.0 |
| | EXCAVA SANEADO | 0.000 | 0.63 | 41.9 | FIRME | 3.635 | 68.86 | 429.5 |
| | TERRAP SANEADO | 0.000 | 0.63 | 41.9 | SUELO SEL2 | 7.267 | 108.01 | 722.5 |
| | SUELO SEL1 | 4.361 | 64.81 | 144.9 | | | | |
| 151.600 | D TIERRA | 0.808 | 8.63 | 669.1 | TERRAPLEN | 0.271 | 2.68 | 896.7 |
| | EXCAVA SANEADO | 0.016 | 0.24 | 42.2 | FIRME | 0.593 | 6.79 | 436.3 |
| | TERRAP SANEADO | 0.016 | 0.24 | 42.2 | | | | |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|----------------|---------|
| D TIERRA | 669.1 |
| TERRAPLEN | 896.7 |
| EXCAVA SANEADO | 42.2 |
| FIRME | 436.3 |
| TERRAP SANEADO | 42.2 |
| SUELO SEL2 | 722.5 |
| SUELO SEL1 | 144.9 |

Istram 22.08.08.03 03/11/22 12:22:18 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 210 : GLORIETA GIV-6228 (F4-210.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | SUELO EST 3 | 5.259 | 0.00 | 0.0 | TERRAPLEN | 19.500 | 0.00 | 0.0 |
| | REV EXT TERR | 0.404 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 0.139 | 0.51 | 0.5 | SUELO EST 3 | 4.048 | 90.43 | 90.4 |
| | TERRAPLEN | 16.429 | 369.46 | 369.5 | REV EXT TERR | 0.000 | 2.80 | 2.8 |
| | EXC ESCALONADO | 1.046 | 1.33 | 1.3 | TERR ESCALONADO | 1.046 | 1.33 | 1.3 |
| 40.000 | D TIERRA | 0.000 | 1.72 | 2.2 | SUELO EST 3 | 4.048 | 84.50 | 174.9 |
| | TERRAPLEN | 18.623 | 366.55 | 736.0 | REV EXT TERR | 0.000 | 0.72 | 3.5 |
| | EXC ESCALONADO | 0.988 | 29.09 | 30.4 | TERR ESCALONADO | 0.988 | 29.09 | 30.4 |
| 60.000 | D TIERRA | 0.000 | 0.01 | 2.2 | SUELO EST 3 | 5.259 | 88.41 | 263.4 |
| | TERRAPLEN | 19.209 | 356.93 | 1092.9 | REV EXT TERR | 0.388 | 1.90 | 5.4 |
| | EXC ESCALONADO | 1.413 | 14.42 | 44.8 | TERR ESCALONADO | 1.413 | 14.42 | 44.8 |
| 62.832 | SUELO EST 3 | 5.259 | 14.89 | 278.2 | TERRAPLEN | 19.500 | 54.83 | 1147.8 |
| | REV EXT TERR | 0.404 | 1.12 | 6.5 | EXC ESCALONADO | 1.264 | 3.88 | 48.7 |
| | TERR ESCALONADO | 1.264 | 3.88 | 48.7 | | | | |

Istram 22.08.08.03 03/11/22 12:22:18 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 210 : GLORIETA GIV-6228 (F4-210.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 2.2 |
| SUELO EST 3 | 278.2 |
| TERRAPLEN | 1147.8 |
| REV EXT TERR | 6.5 |
| EXC ESCALONADO | 48.7 |
| TERR ESCALONADO | 48.7 |

Istram 22.08.08.03 03/11/22 12:22:18 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 211 : GIV-6228 - NORTE (F4-211.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 1.866 | 0.00 | 0.0 | SUELO EST 3 | 5.087 | 0.00 | 0.0 |
| | TERRAPLEN | 1.978 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 0.000 | 12.09 | 12.1 | SUELO EST 3 | 0.000 | 38.96 | 39.0 |
| | TERRAPLEN | 0.000 | 20.18 | 20.2 | | | | |

Istram 22.08.08.03 03/11/22 12:22:19 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 211 : GIV-6228 - NORTE (F4-211.vol)

***** MEDICIONES DE LOS ACUERDOS EN LOS CRUCES*****
 ***** Cubicacion segun distancias compensadas*****

| PK | EJE AC | MATERIAL | VOL. PARCIAL | MATERIAL | VOL. PARCIAL |
|--------|--------|-----------|--------------|--------------|--------------|
| 20.000 | 210 DA | D TIERRA | 20.82 | SUELO EST 3 | 77.78 |
| | | TERRAPLEN | 1.77 | | |
| 20.000 | 210 IA | D TIERRA | 3.00 | SUELO EST 3 | 66.23 |
| | | TERRAPLEN | 53.00 | REV EXT TERR | 10.98 |

Istram 22.08.08.03 03/11/22 12:22:19 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 211 : GIV-6228 - NORTE (F4-211.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 35.9 |
| SUELO EST 3 | 183.0 |
| TERRAPLEN | 74.9 |
| REV EXT TERR | 11.0 |

Istram 23.03.03.01 13/03/23 12:07:19 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 212 : CALLE MIGJORN (F4-212.vol)

Istram 22.08.08.03 03/11/22 12:21:35 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 226 : Camino de enlace E2 (F4-226.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 9.000 | D TIERRA | 15.930 | 0.00 | 0.0 | REV EXT TERR | 0.012 | 0.00 | 0.0 |
| | FIRME | 4.423 | 0.00 | 0.0 | SUELO SEL2 | 7.063 | 0.00 | 0.0 |
| | SUELO SEL1 | 4.238 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 4.873 | 96.27 | 96.3 | REV EXT TERR | 0.494 | 3.31 | 3.3 |
| | FIRME | 4.235 | 46.57 | 46.6 | SUELO SEL2 | 7.511 | 78.67 | 78.7 |
| | SUELO SEL1 | 4.273 | 45.95 | 45.9 | | | | |
| 40.000 | D TIERRA | 2.997 | 76.05 | 172.3 | REV EXT TERR | 0.597 | 11.21 | 14.5 |
| | FIRME | 4.233 | 84.65 | 131.2 | SUELO SEL2 | 7.625 | 152.03 | 230.7 |
| | SUELO SEL1 | 4.271 | 85.41 | 131.4 | | | | |
| 60.000 | D TIERRA | 3.477 | 60.81 | 233.1 | TERRAPLEN | 0.023 | 0.08 | 0.1 |
| | REV EXT TERR | 0.567 | 11.80 | 26.3 | EXCAVA SANE0 | 0.015 | 0.05 | 0.1 |
| | FIRME | 4.235 | 84.67 | 215.9 | TERRAP SANE0 | 0.015 | 0.05 | 0.1 |
| | SUELO SEL2 | 7.516 | 151.73 | 382.4 | SUELO SEL1 | 4.274 | 85.44 | 216.8 |
| 80.000 | D TIERRA | 4.515 | 81.45 | 314.6 | TERRAPLEN | 0.118 | 1.53 | 1.6 |
| | REV EXT TERR | 0.515 | 10.77 | 37.1 | EXCAVA SANE0 | 0.019 | 0.38 | 0.4 |
| | FIRME | 4.237 | 84.72 | 300.6 | TERRAP SANE0 | 0.019 | 0.38 | 0.4 |
| | SUELO SEL2 | 7.355 | 148.56 | 531.0 | SUELO SEL1 | 4.242 | 85.22 | 302.0 |
| 100.000 | D TIERRA | 5.921 | 99.90 | 414.5 | TERRAPLEN | 0.004 | 1.72 | 3.3 |
| | REV EXT TERR | 0.440 | 9.85 | 46.9 | EXCAVA SANE0 | 0.001 | 0.18 | 0.6 |
| | FIRME | 4.237 | 84.75 | 385.4 | TERRAP SANE0 | 0.001 | 0.18 | 0.6 |
| | SUELO SEL2 | 7.266 | 146.43 | 677.4 | SUELO SEL1 | 4.197 | 84.53 | 386.5 |
| 120.000 | D TIERRA | 6.841 | 136.41 | 550.9 | REV EXT TERR | 0.398 | 7.85 | 54.8 |
| | FIRME | 4.235 | 84.69 | 470.1 | SUELO SEL2 | 7.275 | 144.64 | 822.1 |
| | SUELO SEL1 | 4.208 | 83.60 | 470.1 | | | | |
| 140.000 | D TIERRA | 6.393 | 128.42 | 679.3 | REV EXT TERR | 0.446 | 8.63 | 63.4 |
| | FIRME | 4.233 | 84.68 | 554.7 | SUELO SEL2 | 7.419 | 147.25 | 969.3 |
| | SUELO SEL1 | 4.268 | 84.94 | 555.1 | | | | |
| 160.000 | D TIERRA | 6.266 | 127.06 | 806.4 | REV EXT TERR | 0.460 | 9.13 | 72.6 |
| | FIRME | 4.233 | 84.65 | 639.4 | SUELO SEL2 | 7.475 | 149.13 | 1118.4 |
| | SUELO SEL1 | 4.270 | 85.40 | 640.5 | | | | |
| 180.000 | D TIERRA | 7.093 | 131.38 | 937.7 | REV EXT TERR | 0.381 | 8.48 | 81.0 |
| | FIRME | 4.243 | 84.75 | 724.1 | SUELO SEL2 | 7.326 | 148.18 | 1266.6 |
| | SUELO SEL1 | 4.276 | 85.51 | 726.0 | | | | |
| 200.000 | D TIERRA | 10.006 | 165.20 | 1102.9 | REV EXT TERR | 0.212 | 6.14 | 87.2 |
| | FIRME | 4.245 | 84.93 | 809.1 | SUELO SEL2 | 6.972 | 143.43 | 1410.1 |
| | SUELO SEL1 | 4.170 | 84.71 | 810.7 | | | | |
| 220.000 | D TIERRA | 11.335 | 220.22 | 1323.2 | REV EXT TERR | 0.120 | 2.89 | 90.1 |
| | FIRME | 4.225 | 84.65 | 893.7 | SUELO SEL2 | 6.783 | 136.65 | 1546.7 |
| | SUELO SEL1 | 4.069 | 81.96 | 892.7 | | | | |
| 240.000 | D TIERRA | 11.965 | 232.33 | 1555.5 | REV EXT TERR | 0.075 | 2.02 | 92.1 |
| | FIRME | 4.208 | 84.35 | 978.1 | SUELO SEL2 | 6.689 | 134.85 | 1681.6 |
| | SUELO SEL1 | 4.013 | 80.91 | 973.6 | | | | |
| 260.000 | D TIERRA | 10.659 | 228.08 | 1783.6 | REV EXT TERR | 0.157 | 2.22 | 94.3 |
| | FIRME | 4.235 | 84.42 | 1062.5 | SUELO SEL2 | 6.860 | 135.30 | 1816.9 |
| | SUELO SEL1 | 4.114 | 81.17 | 1054.7 | | | | |
| 280.000 | D TIERRA | 10.026 | 211.31 | 1994.9 | TERRAPLEN | 0.238 | 4.70 | 8.0 |
| | REV EXT TERR | 0.402 | 9.52 | 103.8 | EXCAVA SANE0 | 0.031 | 0.55 | 1.2 |
| | FIRME | 4.212 | 84.54 | 1147.0 | TERRAP SANE0 | 0.031 | 0.55 | 1.2 |
| | SUELO SEL2 | 7.177 | 143.06 | 1959.9 | SUELO SEL1 | 4.121 | 82.76 | 1137.5 |
| 300.000 | D TIERRA | 9.003 | 187.29 | 2182.2 | TERRAPLEN | 0.000 | 0.95 | 9.0 |
| | REV EXT TERR | 0.062 | 4.43 | 108.2 | EXCAVA SANE0 | 0.000 | 0.21 | 1.4 |
| | FIRME | 4.209 | 84.27 | 1231.3 | TERRAP SANE0 | 0.000 | 0.21 | 1.4 |
| | SUELO SEL2 | 6.686 | 139.89 | 2099.8 | SUELO SEL1 | 4.012 | 82.10 | 1219.5 |
| 320.000 | D TIERRA | 8.823 | 190.52 | 2372.7 | REV EXT TERR | 0.112 | 1.16 | 109.4 |
| | FIRME | 4.230 | 83.82 | 1315.1 | SUELO SEL2 | 6.768 | 132.72 | 2232.5 |
| | SUELO SEL1 | 4.061 | 79.63 | 1299.2 | | | | |
| 340.000 | D TIERRA | 0.000 | 91.83 | 2464.5 | TERRAPLEN | 0.000 | 1.55 | 10.5 |
| | REV EXT TERR | 0.000 | 3.84 | 113.2 | EXCAVA SANE0 | 0.000 | 0.27 | 1.7 |
| | FIRME | 0.000 | 56.01 | 1371.1 | TERRAP SANE0 | 0.000 | 0.27 | 1.7 |
| | SUELO SEL2 | 0.000 | 94.03 | 2326.5 | SUELO SEL1 | 0.000 | 55.79 | 1355.0 |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|--------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 5.369 | 0.00 | 0.0 | REV EST DESMON | 0.087 | 0.00 | 0.0 |
| | ADECUADO COR | 2.955 | 0.00 | 0.0 | REV EXT TERR | 0.010 | 0.00 | 0.0 |
| 2.000 | D TIERRA | 5.354 | 10.72 | 10.7 | REV EST DESMON | 0.086 | 0.17 | 0.2 |
| | ADECUADO COR | 2.955 | 5.91 | 5.9 | REV EXT TERR | 0.010 | 0.02 | 0.0 |
| 4.000 | D TIERRA | 5.330 | 10.68 | 21.4 | REV EST DESMON | 0.082 | 0.17 | 0.3 |
| | ADECUADO COR | 2.957 | 5.91 | 11.8 | REV EXT TERR | 0.010 | 0.02 | 0.0 |
| 6.000 | D TIERRA | 5.298 | 10.63 | 32.0 | REV EST DESMON | 0.078 | 0.16 | 0.5 |
| | ADECUADO COR | 2.961 | 5.92 | 17.7 | REV EXT TERR | 0.012 | 0.02 | 0.1 |
| 8.000 | D TIERRA | 5.260 | 10.56 | 42.6 | REV EST DESMON | 0.073 | 0.15 | 0.7 |
| | ADECUADO COR | 2.966 | 5.93 | 23.7 | REV EXT TERR | 0.013 | 0.02 | 0.1 |
| 10.000 | D TIERRA | 0.000 | 5.26 | 47.9 | REV EST DESMON | 0.067 | 0.14 | 0.8 |
| | ADECUADO COR | 2.972 | 5.94 | 29.6 | REV EXT TERR | 0.016 | 0.03 | 0.1 |
| 12.000 | D TIERRA | 5.164 | 5.16 | 53.0 | REV EST DESMON | 0.061 | 0.13 | 0.9 |
| | ADECUADO COR | 2.980 | 5.95 | 35.6 | REV EXT TERR | 0.019 | 0.03 | 0.1 |
| 14.000 | D TIERRA | 5.103 | 10.27 | 63.3 | REV EST DESMON | 0.053 | 0.11 | 1.0 |
| | ADECUADO COR | 2.987 | 5.97 | 41.5 | REV EXT TERR | 0.021 | 0.04 | 0.2 |
| 16.000 | D TIERRA | 5.029 | 10.13 | 73.4 | REV EST DESMON | 0.044 | 0.10 | 1.1 |
| | ADECUADO COR | 2.996 | 5.98 | 47.5 | REV EXT TERR | 0.025 | 0.05 | 0.2 |
| 18.000 | D TIERRA | 3.523 | 8.55 | 82.0 | REV EST DESMON | 0.000 | 0.04 | 1.2 |
| | ADECUADO COR | 1.857 | 4.85 | 52.4 | REV EXT TERR | 0.024 | 0.05 | 0.3 |
| 20.000 | D TIERRA | 5.567 | 9.09 | 91.1 | REV EST DESMON | 0.235 | 0.24 | 1.4 |
| | ADECUADO COR | 3.058 | 4.92 | 57.3 | REV EXT TERR | 0.044 | 0.07 | 0.4 |
| 22.000 | D TIERRA | 3.441 | 9.01 | 100.1 | REV EST DESMON | 0.000 | 0.24 | 1.6 |
| | ADECUADO COR | 2.048 | 5.11 | 62.4 | REV EXT TERR | 0.085 | 0.13 | 0.5 |
| 24.000 | D TIERRA | 3.518 | 6.96 | 107.0 | ADECUADO COR | 2.005 | 4.05 | 66.4 |
| | REV EXT TERR | 0.066 | 0.15 | 0.6 | | | | |
| 26.000 | D TIERRA | 3.587 | 7.10 | 114.1 | ADECUADO COR | 1.949 | 3.95 | 70.4 |
| | REV EXT TERR | 0.047 | 0.11 | 0.7 | | | | |
| 28.000 | D TIERRA | 3.620 | 7.21 | 121.3 | ADECUADO COR | 1.903 | 3.85 | 74.2 |
| | REV EXT TERR | 0.036 | 0.08 | 0.8 | | | | |
| 30.000 | D TIERRA | 3.665 | 7.29 | 128.6 | ADECUADO COR | 1.896 | 3.80 | 78.0 |
| | REV EXT TERR | 0.035 | 0.07 | 0.9 | | | | |
| 32.000 | D TIERRA | 3.715 | 7.38 | 136.0 | ADECUADO COR | 1.884 | 3.78 | 81.8 |
| | REV EXT TERR | 0.028 | 0.06 | 1.0 | | | | |
| 34.000 | D TIERRA | 7.072 | 10.79 | 146.8 | REV EST DESMON | 0.579 | 0.58 | 2.2 |
| | ADECUADO COR | 2.996 | 4.88 | 86.7 | REV EXT TERR | 0.022 | 0.05 | 1.0 |
| 36.000 | D TIERRA | 7.219 | 14.29 | 161.1 | REV EST DESMON | 0.605 | 1.18 | 3.4 |
| | ADECUADO COR | 2.986 | 5.98 | 92.7 | REV EXT TERR | 0.019 | 0.04 | 1.1 |
| 38.000 | D TIERRA | 7.319 | 14.54 | 175.6 | REV EST DESMON | 0.631 | 1.24 | 4.6 |
| | ADECUADO COR | 3.020 | 6.01 | 98.7 | REV EXT TERR | 0.033 | 0.05 | 1.1 |
| 40.000 | D TIERRA | 7.392 | 14.71 | 190.3 | REV EST DESMON | 0.661 | 1.29 | 5.9 |
| | ADECUADO COR | 3.026 | 6.05 | 104.7 | REV EXT TERR | 0.035 | 0.07 | 1.2 |
| 42.000 | D TIERRA | 7.546 | 14.94 | 205.3 | REV EST DESMON | 0.682 | 1.34 | 7.3 |
| | ADECUADO COR | 3.031 | 6.06 | 110.8 | REV EXT TERR | 0.037 | 0.07 | 1.2 |
| 44.000 | D TIERRA | 7.551 | 15.10 | 220.4 | REV EST DESMON | 0.684 | 1.37 | 8.6 |
| | ADECUADO COR | 3.038 | 6.07 | 116.9 | REV EXT TERR | 0.040 | 0.08 | 1.3 |
| 46.000 | D TIERRA | 7.567 | 15.12 | 235.5 | REV EST DESMON | 0.698 | 1.38 | 10.0 |
| | ADECUADO COR | 3.052 | 6.09 | 123.0 | REV EXT TERR | 0.046 | 0.09 | 1.4 |
| 48.000 | D TIERRA | 7.511 | 15.08 | 250.6 | REV EST DESMON | 0.721 | 1.42 | 11.4 |
| | ADECUADO COR | 3.057 | 6.11 | 129.1 | REV EXT TERR | 0.048 | 0.09 | 1.5 |
| 50.000 | D TIERRA | 3.722 | 11.23 | 261.8 | REV EST DESMON | 0.000 | 0.72 | 12.2 |
| | ADECUADO COR | 1.959 | 5.02 | 134.1 | REV EXT TERR | 0.053 | 0.10 | 1.6 |
| 52.000 | D TIERRA | 3.758 | 7.48 | 269.3 | ADECUADO COR | 1.989 | 3.95 | 138.0 |
| | REV EXT TERR | 0.060 | 0.11 | 1.7 | | | | |
| 54.000 | D TIERRA | 3.792 | 7.55 | 276.8 | ADECUADO COR | 2.013 | 4.00 | 142.0 |
| | REV EXT TERR | 0.069 | 0.13 | 1.8 | | | | |
| 56.000 | D TIERRA | 3.799 | 7.59 | 284.4 | ADECUADO COR | 2.022 | 4.03 | 146.1 |
| | REV EXT TERR | 0.072 | 0.14 | 2.0 | | | | |
| 58.000 | D TIERRA | 3.827 | 7.63 | 292.0 | ADECUADO COR | 2.072 | 4.09 | 150.2 |
| | REV EXT TERR | 0.092 | 0.16 | 2.1 | | | | |
| 60.000 | D TIERRA | 3.920 | 7.75 | 299.8 | ADECUADO COR | 2.090 | 4.16 | 154.3 |
| | REV EXT TERR | 0.099 | 0.19 | 2.3 | | | | |
| 62.000 | D TIERRA | 3.974 | 7.89 | 307.7 | ADECUADO COR | 2.076 | 4.17 | 158.5 |
| | REV EXT TERR | 0.094 | 0.19 | 2.5 | | | | |

Istram 22.08.08.03 03/11/22 12:21:35 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 226 : Camino de enlace E2 (F4-226.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 76.000 | D TIERRA | 4.007 | 7.95 | 363.1 | ADECUADO COR | 1.928 | 3.96 | 186.9 |
| | REV EXT TERR | 0.034 | 0.11 | 3.6 | | | | |
| 78.000 | D TIERRA | 3.934 | 7.94 | 371.1 | ADECUADO COR | 1.922 | 3.85 | 190.8 |
| | REV EXT TERR | 0.029 | 0.06 | 3.6 | | | | |
| 80.000 | D TIERRA | 4.032 | 7.97 | 379.1 | ADECUADO COR | 1.962 | 3.88 | 194.7 |
| | REV EXT TERR | 0.047 | 0.08 | 3.7 | | | | |
| 82.000 | D TIERRA | 4.102 | 8.13 | 387.2 | ADECUADO COR | 1.991 | 3.95 | 198.6 |
| | REV EXT TERR | 0.061 | 0.11 | 3.8 | | | | |
| 84.000 | D TIERRA | 4.175 | 8.28 | 395.5 | ADECUADO COR | 1.992 | 3.98 | 202.6 |
| | REV EXT TERR | 0.076 | 0.14 | 4.0 | | | | |
| 86.000 | D TIERRA | 4.268 | 8.44 | 403.9 | ADECUADO COR | 1.969 | 3.96 | 206.6 |
| | REV EXT TERR | 0.067 | 0.14 | 4.1 | | | | |
| 88.000 | D TIERRA | 3.783 | 8.05 | 412.0 | ADECUADO COR | 1.942 | 3.91 | 210.5 |
| | REV EXT TERR | 0.057 | 0.12 | 4.2 | | | | |
| 90.000 | D TIERRA | 3.546 | 7.33 | 419.3 | ADECUADO COR | 1.903 | 3.84 | 214.3 |
| | REV EXT TERR | 0.041 | 0.10 | 4.3 | | | | |
| 92.000 | D TIERRA | 3.520 | 7.07 | 426.4 | ADECUADO COR | 1.817 | 3.72 | 218.0 |
| | REV EXT TERR | 0.007 | 0.05 | 4.4 | | | | |
| 94.000 | D TIERRA | 7.179 | 10.70 | 437.1 | REVEST DESMON | 0.081 | 0.08 | 12.3 |
| | ADECUADO COR | 4.074 | 5.89 | 223.9 | | | | |
| 96.000 | D TIERRA | 7.562 | 14.74 | 451.8 | REVEST DESMON | 0.101 | 0.18 | 12.4 |
| | ADECUADO COR | 4.074 | 8.15 | 232.1 | | | | |
| 98.000 | D TIERRA | 7.975 | 15.54 | 467.3 | REVEST DESMON | 0.142 | 0.24 | 12.7 |
| | ADECUADO COR | 4.074 | 8.15 | 240.2 | | | | |
| 100.000 | D TIERRA | 8.402 | 16.38 | 483.7 | REVEST DESMON | 0.187 | 0.33 | 13.0 |
| | ADECUADO COR | 4.074 | 8.15 | 248.4 | | | | |
| 102.000 | D TIERRA | 7.183 | 15.58 | 499.3 | REVEST DESMON | 0.113 | 0.30 | 13.3 |
| | ADECUADO COR | 4.074 | 8.15 | 256.5 | | | | |
| 103.700 | D TIERRA | 7.067 | 12.11 | 511.4 | REVEST DESMON | 0.040 | 0.13 | 13.4 |
| | ADECUADO COR | 4.074 | 6.93 | 263.5 | | | | |

Istram 22.08.08.03 03/11/22 12:21:35 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 226 : Camino de enlace E2 (F4-226.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|---------------|---------|
| D TIERRA | 511.4 |
| REVEST DESMON | 13.4 |
| ADECUADO COR | 263.5 |
| REV EXT TERR | 4.4 |

Istram 22.08.08.03 03/11/22 12:22:19 200315
 PROYECTO :
 GRUPO : 26 : FASE IV - EXTREMOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 228 : INICIO CALZ. IZQ (F4-228.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 26.138 | 0.00 | 0.0 | ADECUADO COR | 10.077 | 0.00 | 0.0 |
| | SUELO EST 3 | 6.045 | 0.00 | 0.0 | REV EXT TERR | 0.328 | 0.00 | 0.0 |
| 20.000 | D TIERRA | 1.139 | 395.79 | 395.8 | ADECUADO COR | 10.471 | 209.31 | 209.3 |
| | SUELO EST 3 | 6.245 | 125.36 | 125.4 | VEGETAL | 1.523 | 8.38 | 8.4 |
| | TERRAPLEN | 0.002 | 0.01 | 0.0 | REV EXT TERR | 0.477 | 8.61 | 8.6 |
| 40.000 | D TIERRA | 1.048 | 21.28 | 417.1 | ADECUADO COR | 10.315 | 207.08 | 416.4 |
| | SUELO EST 3 | 6.134 | 123.76 | 249.1 | VEGETAL | 1.847 | 33.31 | 41.7 |
| | TERRAPLEN | 0.001 | 0.03 | 0.0 | REV EXT TERR | 0.620 | 9.72 | 18.3 |
| 60.000 | D TIERRA | 0.702 | 27.47 | 444.5 | ADECUADO COR | 9.946 | 207.50 | 623.9 |
| | SUELO EST 3 | 5.793 | 120.92 | 370.1 | VEGETAL | 1.600 | 32.59 | 74.3 |
| | REV EXT TERR | 1.173 | 20.95 | 39.3 | | | | |
| 80.000 | D TIERRA | 18.231 | 386.07 | 830.6 | ADECUADO COR | 9.636 | 195.41 | 819.3 |
| | SUELO EST 3 | 5.602 | 113.76 | 483.8 | VEGETAL | 0.000 | 0.80 | 75.1 |
| | TERRAPLEN | 0.671 | 12.12 | 12.2 | REV EXT TERR | 1.372 | 25.84 | 65.1 |
| | EXC ESCALONADO | 1.373 | 24.88 | 24.9 | TERR ESCALONADO | 1.373 | 24.88 | 24.9 |
| 100.000 | D TIERRA | 0.000 | 322.50 | 1153.1 | ADECUADO COR | 8.827 | 185.07 | 1004.4 |
| | SUELO EST 3 | 5.120 | 107.65 | 591.5 | VEGETAL | 2.298 | 1.15 | 76.2 |
| | TERRAPLEN | 0.845 | 4.05 | 16.2 | REV EXT TERR | 1.328 | 27.14 | 92.3 |
| | EXC ESCALONADO | 0.002 | 8.10 | 33.0 | TERR ESCALONADO | 0.002 | 8.10 | 33.0 |
| 120.000 | D TIERRA | 0.000 | 0.67 | 1153.8 | ADECUADO COR | 8.889 | 173.78 | 1178.1 |
| | SUELO EST 3 | 4.987 | 99.79 | 691.3 | VEGETAL | 2.671 | 87.54 | 163.8 |
| | TERRAPLEN | 0.643 | 26.04 | 42.3 | REV EXT TERR | 0.948 | 16.87 | 109.1 |
| | EXC ESCALONADO | 0.039 | 0.65 | 33.6 | TERR ESCALONADO | 0.039 | 0.65 | 33.6 |

Istram 22.08.08.03 03/11/22 12:22:19 200315
 PROYECTO :
 GRUPO : 26 : FASE IV - EXTREMOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 228 : INICIO CALZ. IZQ (F4-228.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------------|---------|
| D TIERRA | 1153.8 |
| ADECUADO COR | 1178.1 |
| SUELO EST 3 | 691.3 |
| VEGETAL | 163.8 |
| TERRAPLEN | 42.3 |
| REV EXT TERR | 109.1 |
| EXC ESCALONADO | 33.6 |
| TERR ESCALONADO | 33.6 |

Istram 22.08.08.03 03/11/22 12:22:19 200315
 PROYECTO :
 GRUPO : 26 : FASE IV - EXTREMOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 229 : FINAL CALZ. IZQ (F4-229.vol)

Istram 22.08.08.03 03/11/22 12:21:36 200315
 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 238 : ZONA INTERIOR 1 (ZONA 1.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 19.917 | 0.00 | 0.0 | ADECUADO COR | 9.063 | 0.00 | 0.0 |
| | SUELO EST 3 | 5.078 | 0.00 | 0.0 | VEGETAL | 0.553 | 0.00 | 0.0 |
| | REV EXT TERR | 1.811 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 17.757 | 389.87 | 389.9 | ADECUADO COR | 7.556 | 167.84 | 167.8 |
| | SUELO EST 3 | 4.358 | 95.21 | 95.2 | VEGETAL | 0.586 | 11.85 | 11.8 |
| | REV EXT TERR | 1.522 | 33.43 | 33.4 | | | | |
| 40.000 | D TIERRA | 13.384 | 331.23 | 721.1 | ADECUADO COR | 7.470 | 149.59 | 317.4 |
| | SUELO EST 3 | 4.306 | 86.23 | 181.4 | VEGETAL | 0.578 | 12.01 | 23.9 |
| | REV EXT TERR | 1.458 | 29.65 | 63.1 | | | | |
| 60.000 | D TIERRA | 15.672 | 287.65 | 1008.7 | ADECUADO COR | 7.467 | 149.33 | 466.8 |
| | SUELO EST 3 | 4.304 | 86.07 | 267.5 | VEGETAL | 0.627 | 11.96 | 35.8 |
| | REV EXT TERR | 1.773 | 30.95 | 94.0 | | | | |
| 80.000 | D TIERRA | 15.296 | 346.57 | 1355.3 | ADECUADO COR | 7.505 | 149.53 | 616.3 |
| | SUELO EST 3 | 4.325 | 86.17 | 353.7 | VEGETAL | 0.569 | 11.98 | 47.8 |
| | REV EXT TERR | 1.442 | 32.93 | 127.0 | | | | |
| 100.000 | D TIERRA | 15.441 | 312.50 | 1667.8 | ADECUADO COR | 7.660 | 151.26 | 767.6 |
| | SUELO EST 3 | 4.418 | 87.20 | 440.9 | VEGETAL | 0.473 | 10.47 | 58.3 |
| | REV EXT TERR | 1.138 | 23.76 | 150.7 | | | | |
| 120.000 | D TIERRA | 12.363 | 307.85 | 1975.7 | ADECUADO COR | 6.519 | 156.51 | 924.1 |
| | SUELO EST 3 | 3.733 | 89.08 | 530.0 | VEGETAL | 0.421 | 11.54 | 69.8 |
| | REV EXT TERR | 0.623 | 21.59 | 172.3 | | | | |
| 140.000 | D TIERRA | 14.540 | 251.68 | 2227.4 | ADECUADO COR | 7.727 | 134.91 | 1059.0 |
| | SUELO EST 3 | 4.475 | 78.00 | 608.0 | VEGETAL | 0.637 | 9.05 | 78.9 |
| | REV EXT TERR | 0.739 | 9.78 | 182.1 | | | | |
| 160.000 | D TIERRA | 14.471 | 284.32 | 2511.7 | ADECUADO COR | 7.581 | 150.52 | 1209.5 |
| | SUELO EST 3 | 4.385 | 87.99 | 696.0 | VEGETAL | 0.639 | 13.36 | 92.2 |
| | REV EXT TERR | 0.660 | 12.15 | 194.2 | | | | |
| 160.915 | D TIERRA | 14.562 | 13.28 | 2525.0 | ADECUADO COR | 7.604 | 6.95 | 1216.4 |
| | SUELO EST 3 | 4.391 | 4.02 | 700.0 | VEGETAL | 0.628 | 0.58 | 92.8 |
| | REV EXT TERR | 0.684 | 0.61 | 194.9 | | | | |

Istram 22.08.08.03 03/11/22 12:22:20 200315
 PROYECTO :
 GRUPO : 26 : FASE IV - EXTREMOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 229 : FINAL CALZ. IZQ (F4-229.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------|-------------|--------------|--------------|-----------|-------------|--------------|--------------|
| 0.000 | TERRAPLEN | 0.070 | 0.00 | 0.0 | | | | |
| 1.000 | TERRAPLEN | 0.065 | 0.07 | 0.1 | | | | |
| 2.000 | TERRAPLEN | 0.059 | 0.06 | 0.1 | | | | |
| 3.000 | TERRAPLEN | 0.054 | 0.06 | 0.2 | | | | |
| 4.000 | TERRAPLEN | 0.048 | 0.05 | 0.2 | | | | |
| 5.000 | TERRAPLEN | 4.104 | 2.08 | 2.3 | | | | |
| 6.000 | TERRAPLEN | 3.056 | 3.58 | 5.9 | | | | |
| 7.000 | TERRAPLEN | 2.491 | 2.77 | 8.7 | | | | |
| 8.000 | TERRAPLEN | 1.909 | 2.20 | 10.9 | | | | |
| 9.000 | TERRAPLEN | 1.631 | 1.77 | 12.6 | | | | |
| 10.000 | TERRAPLEN | 1.410 | 1.52 | 14.2 | | | | |
| 11.000 | TERRAPLEN | 1.193 | 1.30 | 15.5 | | | | |
| 12.000 | TERRAPLEN | 1.004 | 1.10 | 16.6 | | | | |
| 13.000 | TERRAPLEN | 0.939 | 0.97 | 17.5 | | | | |
| 14.000 | TERRAPLEN | 0.804 | 0.87 | 18.4 | | | | |
| 15.000 | TERRAPLEN | 0.615 | 0.71 | 19.1 | | | | |
| 16.000 | TERRAPLEN | 0.462 | 0.54 | 19.6 | | | | |
| 17.000 | TERRAPLEN | 0.345 | 0.40 | 20.1 | | | | |
| 18.000 | TERRAPLEN | 0.289 | 0.32 | 20.4 | | | | |
| 19.000 | TERRAPLEN | 0.261 | 0.27 | 20.6 | | | | |
| 20.000 | TERRAPLEN | 0.259 | 0.26 | 20.9 | | | | |
| 21.000 | TERRAPLEN | 0.261 | 0.26 | 21.2 | | | | |
| 22.000 | TERRAPLEN | 0.269 | 0.26 | 21.4 | | | | |
| 23.000 | TERRAPLEN | 0.279 | 0.27 | 21.7 | | | | |
| 24.000 | TERRAPLEN | 0.290 | 0.28 | 22.0 | | | | |
| 25.000 | TERRAPLEN | 0.299 | 0.29 | 22.3 | | | | |
| 26.000 | TERRAPLEN | 0.328 | 0.31 | 22.6 | | | | |
| 27.000 | TERRAPLEN | 0.367 | 0.35 | 22.9 | | | | |
| 28.000 | TERRAPLEN | 0.359 | 0.36 | 23.3 | | | | |
| 29.000 | TERRAPLEN | 0.339 | 0.35 | 23.7 | | | | |
| 30.000 | TERRAPLEN | 0.347 | 0.34 | 24.0 | | | | |
| 31.000 | TERRAPLEN | 0.341 | 0.34 | 24.3 | | | | |
| 32.000 | TERRAPLEN | 0.306 | 0.32 | 24.7 | | | | |
| 33.000 | TERRAPLEN | 0.271 | 0.29 | 25.0 | | | | |
| 34.000 | TERRAPLEN | 0.312 | 0.29 | 25.2 | | | | |
| 35.000 | TERRAPLEN | 0.324 | 0.32 | 25.6 | | | | |
| 36.000 | TERRAPLEN | 0.331 | 0.33 | 25.9 | | | | |
| 37.000 | TERRAPLEN | 0.333 | 0.33 | 26.2 | | | | |
| 38.000 | TERRAPLEN | 0.321 | 0.33 | 26.5 | | | | |
| 39.000 | TERRAPLEN | 0.255 | 0.29 | 26.8 | | | | |
| 40.000 | TERRAPLEN | 0.243 | 0.25 | 27.1 | | | | |
| 41.000 | TERRAPLEN | 0.271 | 0.26 | 27.3 | | | | |
| 42.000 | TERRAPLEN | 0.290 | 0.28 | 27.6 | | | | |
| 43.000 | TERRAPLEN | 0.313 | 0.30 | 27.9 | | | | |
| 44.000 | TERRAPLEN | 0.339 | 0.33 | 28.3 | | | | |
| 45.000 | TERRAPLEN | 0.370 | 0.35 | 28.6 | | | | |
| 46.000 | TERRAPLEN | 0.403 | 0.39 | 29.0 | | | | |
| 47.000 | TERRAPLEN | 0.445 | 0.42 | 29.4 | | | | |
| 48.000 | TERRAPLEN | 0.397 | 0.42 | 29.8 | | | | |
| 49.000 | TERRAPLEN | 0.378 | 0.39 | 30.2 | | | | |
| 50.000 | TERRAPLEN | 0.385 | 0.38 | 30.6 | | | | |
| 51.000 | TERRAPLEN | 0.421 | 0.40 | 31.0 | | | | |
| 52.000 | TERRAPLEN | 0.562 | 0.49 | 31.5 | | | | |
| 53.000 | TERRAPLEN | 0.618 | 0.59 | 32.1 | | | | |
| 54.000 | D TIERRA | 0.005 | 0.00 | 0.0 | TERRAPLEN | 0.615 | 0.62 | 32.7 |
| 55.000 | D TIERRA | 0.015 | 0.01 | 0.0 | TERRAPLEN | 0.600 | 0.61 | 33.3 |
| 56.000 | D TIERRA | 0.029 | 0.02 | 0.0 | TERRAPLEN | 0.603 | 0.60 | 33.9 |
| 57.000 | D TIERRA | 0.046 | 0.04 | 0.1 | TERRAPLEN | 0.643 | 0.62 | 34.5 |
| 58.000 | D TIERRA | 0.060 | 0.05 | 0.1 | TERRAPLEN | 0.684 | 0.66 | 35.2 |
| 59.000 | D TIERRA | 0.072 | 0.07 | 0.2 | TERRAPLEN | 0.699 | 0.69 | 35.9 |
| 60.000 | D TIERRA | 0.065 | 0.07 | 0.3 | TERRAPLEN | 0.718 | 0.71 | 36.6 |
| 61.000 | D TIERRA | 0.052 | 0.06 | 0.3 | TERRAPLEN | 0.774 | 0.75 | 37.3 |
| 62.000 | D TIERRA | 0.050 | 0.05 | 0.4 | TERRAPLEN | 0.864 | 0.82 | 38.2 |
| 63.000 | D TIERRA | 0.055 | 0.05 | 0.4 | TERRAPLEN | 0.966 | 0.91 | 39.1 |
| 64.000 | D TIERRA | 0.056 | 0.06 | 0.5 | TERRAPLEN | 1.010 | 0.99 | 40.1 |
| 65.000 | D TIERRA | 0.059 | 0.06 | 0.5 | TERRAPLEN | 1.058 | 1.03 | 41.1 |
| 66.000 | D TIERRA | 0.062 | 0.06 | 0.6 | TERRAPLEN | 1.105 | 1.08 | 42.2 |
| 67.000 | D TIERRA | 0.067 | 0.06 | 0.7 | TERRAPLEN | 1.146 | 1.13 | 43.3 |
| 68.000 | D TIERRA | 0.070 | 0.07 | 0.7 | TERRAPLEN | 1.197 | 1.17 | 44.5 |
| 69.000 | D TIERRA | 0.072 | 0.07 | 0.8 | TERRAPLEN | 1.248 | 1.22 | 45.7 |
| 70.000 | D TIERRA | 0.070 | 0.07 | 0.9 | TERRAPLEN | 1.322 | 1.29 | 47.0 |
| 71.000 | D TIERRA | 0.080 | 0.08 | 0.9 | TERRAPLEN | 1.384 | 1.35 | 48.3 |
| 72.000 | D TIERRA | 0.082 | 0.08 | 1.0 | TERRAPLEN | 1.421 | 1.40 | 49.7 |
| 73.000 | D TIERRA | 0.082 | 0.08 | 1.1 | TERRAPLEN | 1.433 | 1.43 | 51.2 |
| 74.000 | D TIERRA | 0.076 | 0.08 | 1.2 | TERRAPLEN | 1.468 | 1.45 | 52.6 |
| 75.000 | D TIERRA | 0.063 | 0.07 | 1.3 | TERRAPLEN | 1.548 | 1.51 | 54.1 |

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 2525.0 |
| ADECUADO COR | 1216.4 |
| SUELO EST 3 | 700.0 |
| VEGETAL | 92.8 |
| REV EXT TERR | 194.9 |

Istram 22.08.08.03 03/11/22 12:21:36 200315
 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 238 : ZONA INTERIOR 1 (ZONA 1.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------|-------------|--------------|--------------|-----------|-------------|--------------|--------------|
| 76.000 | D TIERRA | 0.049 | 0.06 | 1.3 | TERRAPLEN | 1.656 | 1.60 | 55.7 |
| 77.000 | D TIERRA | 0.027 | 0.04 | 1.4 | TERRAPLEN | 1.801 | 1.73 | 57.5 |
| 78.000 | D TIERRA | 0.013 | 0.02 | 1.4 | TERRAPLEN | 1.948 | 1.87 | 59.3 |
| 79.000 | D TIERRA | 0.007 | 0.01 | 1.4 | TERRAPLEN | 2.102 | 2.03 | 61.4 |
| 80.000 | D TIERRA | 0.004 | 0.01 | 1.4 | TERRAPLEN | 2.233 | 2.17 | 63.5 |
| 81.000 | TERRAPLEN | 2.368 | 2.30 | 65.8 | | | | |
| 82.000 | TERRAPLEN | 2.505 | 2.44 | 68.3 | | | | |
| 83.000 | TERRAPLEN | 2.724 | 2.61 | 70.9 | | | | |
| 84.000 | TERRAPLEN | 2.975 | 2.85 | 73.7 | | | | |
| 85.000 | TERRAPLEN | 3.199 | 3.09 | 76.8 | | | | |
| 86.000 | TERRAPLEN | 3.411 | 3.30 | 80.1 | | | | |
| 87.000 | TERRAPLEN | 3.630 | 3.52 | 83.6 | | | | |
| 88.000 | TERRAPLEN | 3.826 | 3.73 | 87.4 | | | | |
| 89.000 | TERRAPLEN | 3.995 | 3.91 | 91.3 | | | | |
| 90.000 | TERRAPLEN | 4.090 | 4.04 | 95.3 | | | | |
| 91.000 | TERRAPLEN | 4.161 | 4.13 | 99.4 | | | | |
| 92.000 | TERRAPLEN | 4.592 | 4.38 | 103.8 | | | | |
| 93.000 | TERRAPLEN | 5.361 | 4.98 | 108.8 | | | | |
| 94.000 | TERRAPLEN | 6.094 | 5.73 | 114.5 | | | | |
| 95.000 | TERRAPLEN | 6.930 | 6.51 | 121.0 | | | | |
| 96.000 | TERRAPLEN | 7.721 | 7.33 | 128.4 | | | | |
| 97.000 | TERRAPLEN | 8.596 | 8.16 | 136.5 | | | | |
| 98.000 | TERRAPLEN | 9.579 | 9.09 | 145.6 | | | | |
| 99.000 | TERRAPLEN | 10.544 | 10.06 | 155.7 | | | | |
| 100.000 | TERRAPLEN | 11.623 | 11.08 | 166.8 | | | | |
| 101.000 | TERRAPLEN | 12.685 | 12.15 | 178.9 | | | | |
| 102.000 | TERRAPLEN | 13.863 | 13.27 | 192.2 | | | | |
| 103.000 | TERRAPLEN | 16.668 | 15.27 | 207.4 | | | | |
| 104.000 | TERRAPLEN | 18.130 | 17.40 | 224.8 | | | | |
| 105.000 | TERRAPLEN | 19.441 | 18.79 | 243.6 | | | | |
| 106.000 | TERRAPLEN | 20.713 | 20.08 | 263.7 | | | | |
| 107.000 | TERRAPLEN | 22.236 | 21.47 | 285.2 | | | | |
| 108.000 | TERRAPLEN | 24.034 | 23.13 | 308.3 | | | | |
| 109.000 | TERRAPLEN | 26.563 | 25.30 | 333.6 | | | | |
| 110.000 | TERRAPLEN | 29.444 | 28.00 | 361.6 | | | | |
| 111.000 | TERRAPLEN | 32.714 | 31.08 | 392.7 | | | | |
| 112.000 | TERRAPLEN | 36.184 | 34.45 | 427.1 | | | | |
| 113.000 | TERRAPLEN | 88.359 | 62.27 | 489.4 | | | | |
| 114.000 | TERRAPLEN | 86.188 | 87.27 | 576.7 | | | | |
| 115.000 | TERRAPLEN | 83.373 | 84.78 | 661.5 | | | | |
| 116.000 | TERRAPLEN | 80.549 | 81.96 | 743.4 | | | | |
| 117.000 | TERRAPLEN | 78.060 | 79.30 | 822.7 | | | | |
| 118.000 | TERRAPLEN | 71.509 | 74.78 | 897.5 | | | | |
| 119.000 | TERRAPLEN | 71.295 | 71.40 | 968.9 | | | | |
| 120.000 | TERRAPLEN | 71.023 | 71.16 | 1040.1 | | | | |
| 121.000 | TERRAPLEN | 70.784 | 70.90 | 1111.0 | | | | |
| 122.000 | TERRAPLEN | 70.502 | 70.64 | 1181.6 | | | | |
| 123.000 | TERRAPLEN | 70.164 | 70.33 | 1252.0 | | | | |
| 124.000 | TERRAPLEN | 61.609 | 65.89 | 1317.8 | | | | |
| 125.000 | TERRAPLEN | 60.120 | 60.86 | 1378.7 | | | | |
| 126.000 | TERRAPLEN | 58.433 | 59.28 | 1438.0 | | | | |
| 127.000 | TERRAPLEN | 56.818 | 57.63 | 1495.6 | | | | |
| 128.000 | TERRAPLEN | 55.173 | 56.00 | 1551.6 | | | | |
| 129.000 | TERRAPLEN | 53.687 | 54.43 | 1606.0 | | | | |
| 130.000 | TERRAPLEN | 52.197 | 52.94 | 1659.0 | | | | |
| 131.000 | TERRAPLEN | 50.725 | 51.46 | 1710.4 | | | | |
| 132.000 | TERRAPLEN | 49.233 | 49.98 | 1760.4 | | | | |
| 133.000 | TERRAPLEN | 47.566 | 48.40 | 1808.8 | | | | |
| 134.000 | TERRAPLEN | 45.803 | 46.68 | 1855.5 | | | | |
| 135.000 | TERRAPLEN | 38.479 | 42.14 | 1897.6 | | | | |
| 136.000 | TERRAPLEN | 36.387 | 37.43 | 1935.1 | | | | |
| 137.000 | TERRAPLEN | 34.607 | 35.50 | 1970.6 | | | | |
| 138.000 | TERRAPLEN | 32.018 | 33.31 | 2003.9 | | | | |
| 139.000 | TERRAPLEN | 30.904 | 31.46 | 2035.4 | | | | |
| 140.000 | TERRAPLEN | 28.292 | 29.60 | 2065.0 | | | | |
| 141.000 | TERRAPLEN | 27.172 | 27.73 | 2092.7 | | | | |
| 142.000 | TERRAPLEN | 25.975 | 26.57 | 2119.3 | | | | |
| 143.000 | TERRAPLEN | 24.341 | 25.16 | 2144.4 | | | | |
| 144.000 | TERRAPLEN | 22.460 | 23.40 | 2167.8 | | | | |
| 145.000 | TERRAPLEN | 20.799 | 21.63 | 2189.4 | | | | |
| 146.000 | TERRAPLEN | 19.235 | 20.02 | 2209.5 | | | | |
| 147.000 | TERRAPLEN | 16.332 | 17.78 | 2227.2 | | | | |
| 148.000 | TERRAPLEN | 15.030 | 15.68 | 2242.9 | | | | |
| 149.000 | TERRAPLEN | 13.615 | 14.32 | 2257.3 | | | | |
| 150.000 | TERRAPLEN | 12.045 | 12.83 | 2270.1 | | | | |
| 151.000 | TERRAPLEN | 10.576 | 11.31 | 2281.4 | | | | |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 238 : ZONA INTERIOR 1 (ZONA 1.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 152.000 | TERRAPLEN | 9.251 | 9.91 | 2291.3 | | | | |
| 153.000 | TERRAPLEN | 7.600 | 8.43 | 2299.7 | | | | |
| 154.000 | TERRAPLEN | 6.758 | 7.18 | 2306.9 | | | | |
| 155.000 | TERRAPLEN | 5.954 | 6.36 | 2313.3 | | | | |
| 156.000 | TERRAPLEN | 5.155 | 5.55 | 2318.8 | | | | |
| 157.000 | TERRAPLEN | 4.380 | 4.77 | 2323.6 | | | | |
| 158.000 | TERRAPLEN | 3.535 | 3.96 | 2327.5 | | | | |
| 159.000 | TERRAPLEN | 2.940 | 3.24 | 2330.8 | | | | |
| 160.000 | TERRAPLEN | 2.404 | 2.67 | 2333.5 | | | | |
| 161.000 | TERRAPLEN | 1.922 | 2.16 | 2335.6 | | | | |
| 162.000 | TERRAPLEN | 1.469 | 1.70 | 2337.3 | | | | |
| 163.000 | TERRAPLEN | 1.011 | 1.24 | 2338.6 | | | | |
| 164.000 | TERRAPLEN | 0.620 | 0.82 | 2339.4 | | | | |
| 165.000 | TERRAPLEN | 0.250 | 0.43 | 2339.8 | | | | |
| 166.000 | TERRAPLEN | 0.075 | 0.16 | 2340.0 | | | | |
| 166.853 | TERRAPLEN | 0.076 | 0.06 | 2340.0 | | | | |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 238 : ZONA INTERIOR 1 (ZONA 1.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------|---------|
| D TIERRA | 1.4 |
| TERRAPLEN | 2340.0 |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 239 : Línea (ZONA 2.1.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|----------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 13.637 | 0.00 | 0.0 | | | | |
| 0.531 | D TIERRA | 15.575 | 7.76 | 7.8 | | | | |
| 1.000 | D TIERRA | 17.292 | 7.71 | 15.5 | | | | |
| 1.062 | D TIERRA | 17.594 | 1.08 | 16.5 | | | | |
| 1.593 | D TIERRA | 20.459 | 10.10 | 26.6 | | | | |
| 2.000 | D TIERRA | 22.195 | 8.68 | 35.3 | | | | |
| 3.000 | D TIERRA | 26.927 | 24.56 | 59.9 | | | | |
| 4.000 | D TIERRA | 31.962 | 29.44 | 89.3 | | | | |
| 5.000 | D TIERRA | 37.628 | 34.79 | 124.1 | | | | |
| 6.000 | D TIERRA | 55.209 | 46.42 | 170.5 | | | | |
| 7.000 | D TIERRA | 62.039 | 58.62 | 229.2 | | | | |
| 8.000 | D TIERRA | 69.179 | 65.61 | 294.8 | | | | |
| 9.000 | D TIERRA | 76.442 | 72.81 | 367.6 | | | | |
| 10.000 | D TIERRA | 66.265 | 71.35 | 438.9 | | | | |
| 11.000 | D TIERRA | 72.458 | 69.36 | 508.3 | | | | |
| 12.000 | D TIERRA | 79.072 | 75.76 | 584.1 | | | | |
| 12.210 | D TIERRA | 80.440 | 16.75 | 600.8 | | | | |
| 13.000 | D TIERRA | 92.768 | 68.42 | 669.2 | | | | |
| 14.000 | D TIERRA | 99.855 | 96.31 | 765.5 | | | | |
| 14.615 | D TIERRA | 104.327 | 62.79 | 828.3 | | | | |
| 14.626 | D TIERRA | 108.489 | 1.17 | 829.5 | | | | |
| 15.000 | D TIERRA | 111.548 | 41.15 | 870.7 | | | | |
| 16.000 | D TIERRA | 120.324 | 115.94 | 986.6 | | | | |
| 17.000 | D TIERRA | 130.087 | 125.21 | 1111.8 | | | | |
| 17.450 | D TIERRA | 142.805 | 61.40 | 1173.2 | | | | |
| 18.000 | D TIERRA | 150.085 | 80.54 | 1253.7 | VEGETAL | 0.416 | 0.11 | 0.1 |
| 19.000 | D TIERRA | 165.384 | 157.73 | 1411.5 | VEGETAL | 5.054 | 2.73 | 2.8 |
| 20.000 | D TIERRA | 184.892 | 175.14 | 1586.6 | VEGETAL | 11.188 | 8.12 | 11.0 |
| 20.097 | D TIERRA | 203.522 | 18.84 | 1605.4 | VEGETAL | 15.102 | 1.28 | 12.2 |
| 20.909 | D TIERRA | 320.766 | 212.86 | 1818.3 | VEGETAL | 18.207 | 13.52 | 25.8 |
| 21.000 | D TIERRA | 317.053 | 29.02 | 1847.3 | VEGETAL | 18.218 | 1.66 | 27.4 |
| 22.000 | D TIERRA | 310.998 | 314.03 | 2161.4 | VEGETAL | 18.532 | 18.37 | 45.8 |
| 22.829 | D TIERRA | 306.046 | 255.76 | 2417.1 | VEGETAL | 18.904 | 15.52 | 61.3 |
| 23.000 | D TIERRA | 282.456 | 50.32 | 2467.4 | VEGETAL | 21.065 | 3.42 | 64.7 |
| 24.000 | D TIERRA | 278.399 | 280.43 | 2747.9 | VEGETAL | 22.256 | 21.66 | 86.4 |
| 25.000 | D TIERRA | 274.357 | 276.38 | 3024.2 | VEGETAL | 23.253 | 22.75 | 109.2 |
| 26.000 | D TIERRA | 270.320 | 272.34 | 3296.6 | VEGETAL | 23.902 | 23.58 | 132.7 |
| 27.000 | D TIERRA | 266.392 | 268.36 | 3564.9 | VEGETAL | 24.218 | 24.06 | 156.8 |
| 28.000 | D TIERRA | 262.799 | 264.60 | 3829.5 | VEGETAL | 24.285 | 24.25 | 181.0 |
| 29.000 | D TIERRA | 259.517 | 261.16 | 4090.7 | VEGETAL | 24.339 | 24.31 | 205.4 |
| 30.000 | D TIERRA | 256.557 | 258.04 | 4348.7 | VEGETAL | 24.393 | 24.37 | 229.7 |
| 31.000 | D TIERRA | 253.621 | 255.09 | 4603.8 | VEGETAL | 24.453 | 24.42 | 254.1 |
| 32.000 | D TIERRA | 250.596 | 252.11 | 4855.9 | VEGETAL | 24.509 | 24.48 | 278.6 |
| 33.000 | D TIERRA | 247.496 | 249.05 | 5105.0 | VEGETAL | 24.559 | 24.53 | 303.2 |
| 33.441 | D TIERRA | 234.104 | 106.19 | 5211.2 | VEGETAL | 23.818 | 10.67 | 313.8 |
| 34.000 | D TIERRA | 232.219 | 130.34 | 5341.5 | VEGETAL | 23.834 | 13.32 | 327.1 |
| 35.000 | D TIERRA | 228.813 | 230.52 | 5572.0 | VEGETAL | 23.870 | 23.85 | 351.0 |
| 36.000 | D TIERRA | 225.375 | 227.09 | 5799.1 | VEGETAL | 23.906 | 23.89 | 374.9 |
| 37.000 | D TIERRA | 221.865 | 223.62 | 6022.7 | VEGETAL | 23.945 | 23.93 | 398.8 |
| 38.000 | D TIERRA | 218.363 | 220.11 | 6242.8 | VEGETAL | 23.980 | 23.96 | 422.8 |
| 39.000 | D TIERRA | 214.825 | 216.59 | 6459.4 | VEGETAL | 24.008 | 23.99 | 446.8 |
| 40.000 | D TIERRA | 211.273 | 213.05 | 6672.5 | VEGETAL | 24.036 | 24.02 | 470.8 |
| 41.000 | D TIERRA | 207.774 | 209.52 | 6882.0 | VEGETAL | 24.020 | 24.03 | 494.8 |
| 42.000 | D TIERRA | 204.312 | 206.04 | 7088.1 | VEGETAL | 23.969 | 23.99 | 518.8 |
| 43.000 | D TIERRA | 200.833 | 202.57 | 7290.6 | VEGETAL | 23.925 | 23.95 | 542.8 |
| 44.000 | D TIERRA | 197.354 | 199.09 | 7489.7 | VEGETAL | 23.878 | 23.90 | 566.7 |
| 44.029 | D TIERRA | 190.463 | 5.62 | 7495.3 | VEGETAL | 23.333 | 0.68 | 567.3 |
| 45.000 | D TIERRA | 186.895 | 183.21 | 7678.6 | VEGETAL | 23.247 | 22.61 | 590.0 |
| 46.000 | D TIERRA | 183.089 | 184.99 | 7863.5 | VEGETAL | 23.169 | 23.21 | 613.2 |
| 46.801 | D TIERRA | 174.863 | 143.36 | 8006.9 | VEGETAL | 22.780 | 18.40 | 631.6 |
| 47.000 | D TIERRA | 174.069 | 34.72 | 8041.6 | VEGETAL | 22.773 | 4.53 | 636.1 |
| 48.000 | D TIERRA | 170.012 | 172.04 | 8213.7 | VEGETAL | 22.751 | 22.76 | 658.9 |
| 49.000 | D TIERRA | 165.896 | 167.95 | 8381.6 | VEGETAL | 22.723 | 22.74 | 681.6 |
| 50.000 | D TIERRA | 161.741 | 163.82 | 8545.4 | VEGETAL | 22.703 | 22.71 | 704.3 |
| 51.000 | D TIERRA | 157.619 | 159.68 | 8705.1 | VEGETAL | 22.675 | 22.69 | 727.0 |
| 52.000 | D TIERRA | 153.529 | 155.57 | 8860.7 | VEGETAL | 22.648 | 22.66 | 749.7 |
| 53.000 | D TIERRA | 149.515 | 151.52 | 9012.2 | VEGETAL | 22.628 | 22.64 | 772.3 |
| 54.000 | D TIERRA | 145.571 | 147.54 | 9159.8 | VEGETAL | 22.720 | 22.67 | 795.0 |
| 54.595 | D TIERRA | 143.161 | 85.90 | 9245.7 | VEGETAL | 22.836 | 13.55 | 808.5 |
| 55.000 | D TIERRA | 135.187 | 56.37 | 9302.0 | VEGETAL | 23.162 | 9.31 | 817.8 |
| 56.000 | D TIERRA | 131.234 | 133.21 | 9435.2 | VEGETAL | 23.369 | 23.27 | 841.1 |
| 57.000 | D TIERRA | 126.820 | 129.03 | 9564.3 | VEGETAL | 23.566 | 23.47 | 864.6 |
| 58.000 | D TIERRA | 122.454 | 124.64 | 9688.9 | VEGETAL | 23.802 | 23.68 | 888.3 |
| 59.000 | D TIERRA | 118.191 | 120.32 | 9809.2 | VEGETAL | 24.318 | 24.06 | 912.3 |
| 60.000 | D TIERRA | 114.024 | 116.11 | 9925.3 | VEGETAL | 24.824 | 24.57 | 936.9 |
| 61.000 | D TIERRA | 109.851 | 111.94 | 10037.3 | VEGETAL | 25.431 | 25.13 | 962.0 |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 239 : Línea (ZONA 2.1.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|----------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 61.183 | D TIERRA | 105.137 | 19.67 | 10056.9 | VEGETAL | 26.896 | 4.79 | 966.8 |
| 62.000 | D TIERRA | 101.922 | 84.58 | 10141.5 | VEGETAL | 28.052 | 22.45 | 989.3 |
| 63.000 | D TIERRA | 98.068 | 99.99 | 10241.5 | VEGETAL | 29.490 | 26.77 | 1018.0 |
| 64.000 | D TIERRA | 94.309 | 96.19 | 10337.7 | VEGETAL | 30.548 | 30.02 | 1048.0 |
| 65.000 | D TIERRA | 90.627 | 92.47 | 10430.2 | VEGETAL | 31.208 | 30.88 | 1078.9 |
| 65.133 | D TIERRA | 90.143 | 12.02 | 10442.2 | VEGETAL | 31.268 | 4.15 | 1083.1 |
| 66.000 | D TIERRA | 70.634 | 69.70 | 10511.9 | VEGETAL | 33.066 | 27.89 | 1111.0 |
| 67.000 | D TIERRA | 66.859 | 68.75 | 10580.6 | VEGETAL | 33.689 | 33.38 | 1144.3 |
| 68.000 | D TIERRA | 111.798 | 89.33 | 10670.0 | VEGETAL | 0.000 | 16.84 | 1161.2 |
| 69.000 | D TIERRA | 1.509 | 56.65 | 10726.6 | | | | |
| 70.000 | D TIERRA | 10.589 | 6.05 | 10732.7 | | | | |
| 70.223 | D TIERRA | 12.273 | 2.55 | 10735.2 | | | | |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 239 : Línea (ZONA 2.1.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN |
|----------|---------|
| D TIERRA | 10735.2 |
| VEGETAL | 1161.2 |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 241 : ZONA INTERIOR 2.3 (ZONA 2.2.vol)

Istram 22.08.08.03 03/11/22 12:21:37 200315
 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 242 : ZONA INTERIOR 3.1 (ZONA 3.1.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------|-------------|--------------|--------------|-----------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 53.614 | 0.00 | 0.0 | TERRAPLEN | 4.382 | 0.00 | 0.0 |
| 1.000 | D TIERRA | 55.557 | 54.59 | 54.6 | TERRAPLEN | 3.980 | 4.18 | 4.2 |
| 2.000 | D TIERRA | 57.544 | 56.55 | 111.1 | TERRAPLEN | 3.589 | 3.78 | 8.0 |
| 3.000 | D TIERRA | 40.045 | 48.79 | 159.9 | VEGETAL | 19.460 | 9.73 | 9.7 |
| | TERRAPLEN | 0.000 | 1.79 | 9.8 | | | | |
| 4.000 | D TIERRA | 43.365 | 41.71 | 201.6 | VEGETAL | 18.642 | 19.05 | 28.8 |
| 5.000 | D TIERRA | 64.184 | 53.77 | 255.4 | VEGETAL | 0.000 | 9.32 | 38.1 |
| | TERRAPLEN | 2.570 | 1.28 | 11.0 | | | | |
| 6.000 | D TIERRA | 66.562 | 65.37 | 320.8 | TERRAPLEN | 2.266 | 2.42 | 13.5 |
| 7.000 | D TIERRA | 68.944 | 67.75 | 388.5 | TERRAPLEN | 1.978 | 2.12 | 15.6 |
| 8.000 | D TIERRA | 71.273 | 70.11 | 458.6 | TERRAPLEN | 1.704 | 1.84 | 17.4 |
| 9.000 | D TIERRA | 73.642 | 72.46 | 531.1 | TERRAPLEN | 1.426 | 1.57 | 19.0 |
| 10.000 | D TIERRA | 75.836 | 74.74 | 605.8 | TERRAPLEN | 1.184 | 1.31 | 20.3 |
| 11.000 | D TIERRA | 78.031 | 76.93 | 682.8 | TERRAPLEN | 0.958 | 1.07 | 21.4 |
| 12.000 | D TIERRA | 80.299 | 79.16 | 761.9 | TERRAPLEN | 0.749 | 0.85 | 22.2 |
| 13.000 | D TIERRA | 82.672 | 81.49 | 843.4 | TERRAPLEN | 0.562 | 0.66 | 22.9 |
| 14.000 | D TIERRA | 85.226 | 83.95 | 927.4 | TERRAPLEN | 0.391 | 0.48 | 23.4 |
| 15.000 | D TIERRA | 87.837 | 86.53 | 1013.9 | TERRAPLEN | 0.251 | 0.32 | 23.7 |
| 16.000 | D TIERRA | 90.780 | 89.31 | 1103.2 | TERRAPLEN | 0.131 | 0.19 | 23.9 |
| 17.000 | D TIERRA | 93.542 | 92.16 | 1195.4 | TERRAPLEN | 0.055 | 0.09 | 24.0 |
| 18.000 | D TIERRA | 96.233 | 94.89 | 1290.3 | TERRAPLEN | 0.013 | 0.03 | 24.0 |
| 19.000 | D TIERRA | 98.972 | 97.60 | 1387.9 | | | | |
| 20.000 | D TIERRA | 101.597 | 100.28 | 1488.1 | | | | |
| 21.000 | D TIERRA | 104.363 | 102.98 | 1591.1 | | | | |
| 22.000 | D TIERRA | 106.880 | 105.62 | 1696.7 | | | | |
| 23.000 | D TIERRA | 109.359 | 108.12 | 1804.9 | | | | |
| 24.000 | D TIERRA | 112.181 | 110.77 | 1915.6 | | | | |
| 25.000 | D TIERRA | 115.613 | 113.90 | 2029.5 | | | | |
| 26.000 | D TIERRA | 119.132 | 117.37 | 2146.9 | | | | |
| 27.000 | D TIERRA | 122.730 | 120.93 | 2267.8 | | | | |
| 28.000 | D TIERRA | 126.410 | 124.57 | 2392.4 | | | | |
| 29.000 | D TIERRA | 130.592 | 128.50 | 2520.9 | | | | |
| 30.000 | D TIERRA | 134.513 | 132.55 | 2653.5 | | | | |
| 31.000 | D TIERRA | 138.894 | 136.70 | 2790.2 | | | | |
| 32.000 | D TIERRA | 142.870 | 140.88 | 2931.0 | | | | |
| 33.000 | D TIERRA | 146.876 | 144.87 | 3075.9 | | | | |
| 34.000 | D TIERRA | 151.316 | 149.10 | 3225.0 | | | | |
| 35.000 | D TIERRA | 155.211 | 153.26 | 3378.3 | | | | |
| 36.000 | D TIERRA | 159.408 | 157.31 | 3535.6 | | | | |
| 37.000 | D TIERRA | 162.862 | 161.13 | 3696.7 | | | | |
| 38.000 | D TIERRA | 166.527 | 164.69 | 3861.4 | | | | |
| 39.000 | D TIERRA | 169.680 | 168.10 | 4029.5 | | | | |
| 40.000 | D TIERRA | 173.283 | 171.48 | 4201.0 | | | | |
| 41.000 | D TIERRA | 176.450 | 174.87 | 4375.9 | | | | |
| 42.000 | D TIERRA | 180.245 | 178.35 | 4554.2 | | | | |
| 43.000 | D TIERRA | 184.021 | 182.13 | 4736.3 | | | | |
| 44.000 | D TIERRA | 187.555 | 185.79 | 4922.1 | | | | |
| 45.000 | D TIERRA | 191.603 | 189.58 | 5111.7 | | | | |
| 46.000 | D TIERRA | 195.645 | 193.62 | 5305.3 | | | | |
| 47.000 | D TIERRA | 199.114 | 197.38 | 5502.7 | | | | |
| 48.000 | D TIERRA | 203.119 | 201.12 | 5703.8 | | | | |
| 49.000 | D TIERRA | 207.313 | 205.22 | 5909.1 | | | | |
| 50.000 | D TIERRA | 210.464 | 208.89 | 6117.9 | | | | |
| 51.000 | D TIERRA | 216.752 | 213.61 | 6331.5 | | | | |
| 52.000 | D TIERRA | 219.460 | 218.11 | 6549.7 | | | | |
| 53.000 | D TIERRA | 222.269 | 220.86 | 6770.5 | | | | |
| 54.000 | D TIERRA | 225.018 | 223.64 | 6994.2 | | | | |
| 55.000 | D TIERRA | 233.354 | 229.19 | 7223.3 | | | | |
| 56.000 | D TIERRA | 236.424 | 234.89 | 7458.2 | | | | |
| 57.000 | D TIERRA | 240.126 | 238.28 | 7696.5 | | | | |
| 58.000 | D TIERRA | 244.387 | 242.26 | 7938.8 | | | | |
| 59.000 | D TIERRA | 248.426 | 246.41 | 8185.2 | | | | |
| 60.000 | D TIERRA | 252.545 | 250.49 | 8435.7 | | | | |
| 61.000 | D TIERRA | 256.749 | 254.65 | 8690.3 | | | | |
| 62.000 | D TIERRA | 272.400 | 264.57 | 8954.9 | | | | |
| 63.000 | D TIERRA | 0.000 | 136.20 | 9091.1 | | | | |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 241 : ZONA INTERIOR 2.3 (ZONA 2.2.vol)

 * * * RESUMEN DE VOLUMENES TOTALES* * *

| MATERIAL | VOLUMEN |
|-----------|---------|
| D TIERRA | 9091.1 |
| VEGETAL | 38.1 |
| TERRAPLEN | 24.0 |

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | TERRAPLEN | 10.958 | 0.00 | 0.0 | | | | |
| 1.000 | TERRAPLEN | 12.333 | 11.65 | 11.6 | | | | |
| 2.000 | TERRAPLEN | 13.772 | 13.05 | 24.7 | | | | |
| 3.000 | TERRAPLEN | 15.251 | 14.51 | 39.2 | | | | |
| 4.000 | TERRAPLEN | 16.765 | 16.01 | 55.2 | | | | |
| 5.000 | TERRAPLEN | 18.320 | 17.54 | 72.8 | | | | |
| 6.000 | TERRAPLEN | 19.868 | 19.09 | 91.9 | | | | |
| 7.000 | TERRAPLEN | 21.444 | 20.66 | 112.5 | | | | |
| 8.000 | TERRAPLEN | 23.083 | 22.26 | 134.8 | | | | |
| 9.000 | TERRAPLEN | 24.774 | 23.93 | 158.7 | | | | |
| 10.000 | TERRAPLEN | 26.510 | 25.64 | 184.3 | | | | |
| 11.000 | TERRAPLEN | 28.226 | 27.37 | 211.7 | | | | |
| 12.000 | TERRAPLEN | 30.027 | 29.13 | 240.8 | | | | |
| 13.000 | TERRAPLEN | 31.850 | 30.94 | 271.8 | | | | |
| 14.000 | TERRAPLEN | 33.691 | 32.77 | 304.5 | | | | |
| 15.000 | TERRAPLEN | 35.595 | 34.64 | 339.2 | | | | |
| 16.000 | TERRAPLEN | 37.605 | 36.60 | 375.8 | | | | |
| 17.000 | TERRAPLEN | 39.598 | 38.60 | 414.4 | | | | |
| 18.000 | TERRAPLEN | 41.712 | 40.65 | 455.0 | | | | |
| 19.000 | TERRAPLEN | 43.895 | 42.80 | 497.9 | | | | |
| 20.000 | TERRAPLEN | 46.135 | 45.01 | 542.9 | | | | |
| 21.000 | TERRAPLEN | 48.434 | 47.28 | 590.2 | | | | |
| 22.000 | TERRAPLEN | 50.806 | 49.62 | 639.8 | | | | |
| 23.000 | TERRAPLEN | 53.147 | 51.98 | 691.7 | | | | |
| 24.000 | TERRAPLEN | 55.669 | 54.41 | 746.2 | | | | |
| 25.000 | TERRAPLEN | 58.274 | 56.97 | 803.1 | | | | |
| 26.000 | TERRAPLEN | 60.956 | 59.61 | 862.7 | | | | |
| 27.000 | TERRAPLEN | 63.744 | 62.35 | 925.1 | | | | |
| 28.000 | TERRAPLEN | 66.605 | 65.17 | 990.3 | | | | |
| 29.000 | TERRAPLEN | 69.567 | 68.09 | 1058.4 | | | | |
| 30.000 | TERRAPLEN | 72.632 | 71.10 | 1129.5 | | | | |
| 31.000 | TERRAPLEN | 75.677 | 74.15 | 1203.6 | | | | |
| 32.000 | TERRAPLEN | 78.937 | 77.31 | 1280.9 | | | | |
| 33.000 | TERRAPLEN | 82.316 | 80.63 | 1361.5 | | | | |
| 34.000 | TERRAPLEN | 85.870 | 84.09 | 1445.6 | | | | |
| 35.000 | TERRAPLEN | 89.541 | 87.71 | 1533.3 | | | | |
| 36.000 | TERRAPLEN | 93.439 | 91.49 | 1624.8 | | | | |
| 37.000 | TERRAPLEN | 97.467 | 95.45 | 1720.3 | | | | |
| 38.000 | TERRAPLEN | 101.504 | 99.49 | 1819.8 | | | | |
| 39.000 | TERRAPLEN | 105.667 | 103.59 | 1923.4 | | | | |
| 40.000 | TERRAPLEN | 109.955 | 107.61 | 2031.0 | | | | |
| 41.000 | TERRAPLEN | 114.108 | 111.83 | 2142.8 | | | | |
| 42.000 | TERRAPLEN | 119.996 | 117.05 | 2259.8 | | | | |
| 43.000 | TERRAPLEN | 125.974 | 122.99 | 2382.8 | | | | |
| 44.000 | TERRAPLEN | 130.599 | 128.29 | 2511.1 | | | | |
| 45.000 | TERRAPLEN | 136.572 | 133.59 | 2644.7 | | | | |
| 46.000 | TERRAPLEN | 142.635 | 139.60 | 2784.3 | | | | |
| 47.000 | TERRAPLEN | 148.780 | 145.71 | 2930.0 | | | | |
| 48.000 | TERRAPLEN | 155.015 | 151.90 | 3081.9 | | | | |
| 49.000 | TERRAPLEN | 160.537 | 157.78 | 3239.7 | | | | |
| 50.000 | TERRAPLEN | 166.911 | 163.72 | 3403.4 | | | | |
| 51.000 | TERRAPLEN | 173.657 | 170.28 | 3573.7 | | | | |
| 52.000 | TERRAPLEN | 181.747 | 177.70 | 3751.4 | | | | |
| 53.000 | TERRAPLEN | 189.978 | 185.86 | 3937.3 | | | | |
| 54.000 | TERRAPLEN | 199.069 | 194.52 | 4131.8 | | | | |
| 55.000 | TERRAPLEN | 208.680 | 203.87 | 4335.7 | | | | |
| 56.000 | TERRAPLEN | 218.378 | 213.53 | 4549.2 | | | | |
| 57.000 | TERRAPLEN | 228.093 | 223.24 | 4772.4 | | | | |
| 58.000 | TERRAPLEN | 237.879 | 232.99 | 5005.4 | | | | |
| 59.000 | TERRAPLEN | 248.489 | 243.18 | 5248.6 | | | | |
| 60.000 | TERRAPLEN | 264.073 | 256.28 | 5504.9 | | | | |
| 61.000 | TERRAPLEN | 277.334 | 270.70 | 5775.6 | | | | |
| 62.000 | TERRAPLEN | 290.774 | 284.05 | 6059.6 | | | | |
| 63.000 | TERRAPLEN | 304.403 | 297.59 | 6357.2 | | | | |
| 64.000 | TERRAPLEN | 318.645 | 311.52 | 6668.7 | | | | |
| 65.000 | TERRAPLEN | 335.376 | 327.01 | 6995.8 | | | | |
| 66.000 | TERRAPLEN | 355.453 | 345.41 | 7341.2 | | | | |
| 67.000 | TERRAPLEN | 377.039 | 366.25 | 7707.4 | | | | |
| 68.000 | TERRAPLEN | 398.938 | 387.99 | 8095.4 | | | | |
| 69.000 | TERRAPLEN | 421.151 | 410.04 | 8505.4 | | | | |
| 70.000 | TERRAPLEN | 0.000 | 210.58 | 8716.0 | | | | |

 * * * RESUMEN DE VOLUMENES TOTALES* * *

| MATERIAL | VOLUMEN |
|-----------|---------|
| TERRAPLEN | 8716.0 |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 243 : ZONA INTERIOR 3.1 (ZONA 3.2.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | TERRAPLEN | 6.680 | 0.00 | 0.0 | | | | |
| 1.000 | TERRAPLEN | 7.572 | 7.13 | 7.1 | | | | |
| 2.000 | TERRAPLEN | 8.483 | 8.03 | 15.2 | | | | |
| 3.000 | TERRAPLEN | 9.334 | 8.91 | 24.1 | | | | |
| 4.000 | TERRAPLEN | 10.136 | 9.74 | 33.8 | | | | |
| 5.000 | TERRAPLEN | 10.908 | 10.52 | 44.3 | | | | |
| 6.000 | TERRAPLEN | 11.676 | 11.29 | 55.6 | | | | |
| 7.000 | TERRAPLEN | 12.355 | 12.02 | 67.6 | | | | |
| 8.000 | TERRAPLEN | 13.365 | 12.86 | 80.5 | | | | |
| 9.000 | TERRAPLEN | 13.904 | 13.63 | 94.1 | | | | |
| 10.000 | TERRAPLEN | 14.707 | 14.31 | 108.4 | | | | |
| 11.000 | TERRAPLEN | 15.202 | 14.95 | 123.4 | | | | |
| 12.000 | TERRAPLEN | 15.657 | 15.43 | 138.8 | | | | |
| 13.000 | TERRAPLEN | 16.109 | 15.88 | 154.7 | | | | |
| 14.000 | TERRAPLEN | 16.656 | 16.38 | 171.1 | | | | |
| 15.000 | TERRAPLEN | 18.199 | 17.43 | 188.5 | | | | |
| 16.000 | TERRAPLEN | 19.031 | 18.62 | 207.1 | | | | |
| 17.000 | TERRAPLEN | 19.849 | 19.44 | 226.6 | | | | |
| 18.000 | TERRAPLEN | 20.791 | 20.32 | 246.9 | | | | |
| 19.000 | TERRAPLEN | 21.802 | 21.30 | 268.2 | | | | |
| 20.000 | TERRAPLEN | 22.861 | 22.33 | 290.5 | | | | |
| 21.000 | TERRAPLEN | 26.300 | 24.58 | 315.1 | | | | |
| 22.000 | TERRAPLEN | 27.477 | 26.89 | 342.0 | | | | |
| 23.000 | TERRAPLEN | 28.715 | 28.10 | 370.1 | | | | |
| 24.000 | TERRAPLEN | 29.998 | 29.36 | 399.4 | | | | |
| 25.000 | TERRAPLEN | 31.322 | 30.66 | 430.1 | | | | |
| 26.000 | TERRAPLEN | 32.694 | 32.01 | 462.1 | | | | |
| 27.000 | TERRAPLEN | 0.000 | 16.35 | 478.4 | | | | |

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 PROYECTO :
 GRUPO : 28 : ZONAS INTERIORES
 C.R.S. : ED50 (HUSO 30)
 EJE : 243 : ZONA INTERIOR 3.1 (ZONA 3.2.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------|---------|
| TERRAPLEN | 478.4 |

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 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 283 : GIV-6228 - SUR (F4-283.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 2.127 | 0.00 | 0.0 | SUELO EST 3 | 5.091 | 0.00 | 0.0 |
| | TERRAPLEN | 0.200 | 0.00 | 0.0 | | | | |
| 20.000 | D TIERRA | 0.000 | 8.67 | 8.7 | SUELO EST 3 | 0.000 | 32.42 | 32.4 |
| | TERRAPLEN | 0.000 | 2.59 | 2.6 | | | | |

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 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 283 : GIV-6228 - SUR (F4-283.vol)

***** MEDICIONES DE LOS ACUERDOS EN LOS CRUCES*****
 ***** Cubicacion segun distancias compensadas*****

| PK | EJE AC | MATERIAL | VOL. PARCIAL | MATERIAL | VOL. PARCIAL |
|--------|--------|-----------|--------------|--------------|--------------|
| 20.000 | 210 DA | D TIERRA | 3.51 | SUELO EST 3 | 60.16 |
| | | TERRAPLEN | 9.96 | | |
| 20.000 | 210 IA | D TIERRA | 16.29 | SUELO EST 3 | 84.84 |
| | | TERRAPLEN | 19.21 | REV EXT TERR | 12.24 |

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 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 283 : GIV-6228 - SUR (F4-283.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|--------------|---------|
| D TIERRA | 28.5 |
| SUELO EST 3 | 177.4 |
| TERRAPLEN | 31.8 |
| REV EXT TERR | 12.2 |

Istram 22.08.08.03 03/11/22 12:21:38 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol1)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | D TIERRA | 5.495 | 0.00 | 0.0 | REVEST DESMON | 0.002 | 0.00 | 0.0 |
| | ADECUADO COR | 3.300 | 0.00 | 0.0 | REV EXT TERR | 0.026 | 0.00 | 0.0 |
| 1.000 | D TIERRA | 5.276 | 5.39 | 5.4 | ADECUADO COR | 3.110 | 3.20 | 3.2 |
| | REV EXT TERR | 0.046 | 0.04 | 0.0 | | | | |
| 2.000 | D TIERRA | 7.010 | 6.14 | 11.5 | REVEST DESMON | 0.124 | 0.06 | 0.1 |
| | ADECUADO COR | 3.486 | 3.30 | 6.5 | REV EXT TERR | 0.000 | 0.02 | 0.1 |
| 3.000 | D TIERRA | 7.816 | 7.41 | 18.9 | REVEST DESMON | 0.207 | 0.17 | 0.2 |
| | ADECUADO COR | 3.486 | 3.49 | 10.0 | | | | |
| 4.000 | D TIERRA | 7.643 | 7.73 | 26.7 | REVEST DESMON | 0.197 | 0.20 | 0.4 |
| | ADECUADO COR | 3.486 | 3.49 | 13.5 | | | | |
| 5.000 | D TIERRA | 7.169 | 7.41 | 34.1 | REVEST DESMON | 0.153 | 0.17 | 0.6 |
| | ADECUADO COR | 3.486 | 3.49 | 17.0 | | | | |
| 6.000 | D TIERRA | 7.278 | 7.22 | 41.3 | REVEST DESMON | 0.165 | 0.16 | 0.8 |
| | ADECUADO COR | 3.486 | 3.49 | 20.4 | | | | |
| 7.000 | D TIERRA | 8.902 | 8.09 | 49.4 | REVEST DESMON | 0.147 | 0.16 | 0.9 |
| | ADECUADO COR | 4.326 | 3.91 | 24.4 | | | | |
| 8.000 | D TIERRA | 8.602 | 8.75 | 58.1 | REVEST DESMON | 0.118 | 0.13 | 1.1 |
| | ADECUADO COR | 4.326 | 4.33 | 28.7 | | | | |
| 9.000 | D TIERRA | 8.237 | 8.42 | 66.6 | REVEST DESMON | 0.097 | 0.11 | 1.2 |
| | ADECUADO COR | 4.229 | 4.28 | 33.0 | | | | |
| 10.000 | D TIERRA | 8.133 | 8.18 | 74.7 | REVEST DESMON | 0.095 | 0.10 | 1.3 |
| | ADECUADO COR | 4.192 | 4.21 | 37.2 | | | | |
| 11.000 | D TIERRA | 7.864 | 8.00 | 82.7 | REVEST DESMON | 0.095 | 0.10 | 1.4 |
| | ADECUADO COR | 4.096 | 4.14 | 41.3 | | | | |
| 12.000 | D TIERRA | 7.750 | 7.81 | 90.6 | REVEST DESMON | 0.092 | 0.09 | 1.4 |
| | ADECUADO COR | 4.097 | 4.10 | 45.4 | REV EXT TERR | 0.010 | 0.00 | 0.1 |
| 13.000 | D TIERRA | 7.646 | 7.70 | 98.3 | REVEST DESMON | 0.086 | 0.09 | 1.5 |
| | ADECUADO COR | 4.118 | 4.11 | 49.5 | REV EXT TERR | 0.018 | 0.01 | 0.1 |
| 14.000 | D TIERRA | 7.498 | 7.57 | 105.8 | REVEST DESMON | 0.074 | 0.08 | 1.6 |
| | ADECUADO COR | 4.144 | 4.13 | 53.6 | REV EXT TERR | 0.029 | 0.02 | 0.1 |
| 15.000 | D TIERRA | 7.327 | 7.41 | 113.2 | REVEST DESMON | 0.060 | 0.07 | 1.7 |
| | ADECUADO COR | 4.172 | 4.16 | 57.8 | REV EXT TERR | 0.040 | 0.03 | 0.1 |
| 16.000 | D TIERRA | 7.134 | 7.23 | 120.5 | REVEST DESMON | 0.045 | 0.05 | 1.7 |
| | ADECUADO COR | 4.202 | 4.19 | 62.0 | REV EXT TERR | 0.052 | 0.05 | 0.2 |
| 17.000 | D TIERRA | 6.923 | 7.03 | 127.5 | REVEST DESMON | 0.029 | 0.04 | 1.8 |
| | ADECUADO COR | 4.233 | 4.22 | 66.2 | REV EXT TERR | 0.064 | 0.06 | 0.2 |
| 18.000 | D TIERRA | 6.696 | 6.81 | 134.3 | REVEST DESMON | 0.013 | 0.02 | 1.8 |
| | ADECUADO COR | 4.266 | 4.25 | 70.5 | REV EXT TERR | 0.077 | 0.07 | 0.3 |
| 19.000 | D TIERRA | 6.044 | 6.37 | 140.7 | ADECUADO COR | 4.061 | 4.16 | 74.6 |
| | REV EXT TERR | 0.091 | 0.08 | 0.4 | | | | |
| 20.000 | D TIERRA | 5.871 | 5.96 | 146.6 | ADECUADO COR | 4.136 | 4.10 | 78.7 |
| | REV EXT TERR | 0.123 | 0.11 | 0.5 | | | | |
| 21.000 | D TIERRA | 5.695 | 5.78 | 152.4 | ADECUADO COR | 4.204 | 4.17 | 82.9 |
| | REV EXT TERR | 0.150 | 0.14 | 0.6 | | | | |
| 22.000 | D TIERRA | 5.524 | 5.61 | 158.0 | ADECUADO COR | 4.264 | 4.23 | 87.1 |
| | REV EXT TERR | 0.174 | 0.16 | 0.8 | | | | |
| 23.000 | D TIERRA | 5.355 | 5.44 | 163.5 | ADECUADO COR | 4.322 | 4.29 | 91.4 |
| | REV EXT TERR | 0.197 | 0.19 | 1.0 | | | | |
| 24.000 | D TIERRA | 5.190 | 5.27 | 168.7 | ADECUADO COR | 4.375 | 4.35 | 95.8 |
| | REV EXT TERR | 0.219 | 0.21 | 1.2 | | | | |
| 25.000 | D TIERRA | 5.030 | 5.11 | 173.8 | ADECUADO COR | 4.423 | 4.40 | 100.2 |
| | REV EXT TERR | 0.239 | 0.23 | 1.4 | | | | |
| 26.000 | D TIERRA | 4.874 | 4.95 | 178.8 | ADECUADO COR | 4.465 | 4.44 | 104.6 |
| | REV EXT TERR | 0.257 | 0.25 | 1.7 | | | | |
| 27.000 | D TIERRA | 4.724 | 4.80 | 183.6 | ADECUADO COR | 4.504 | 4.48 | 109.1 |
| | REV EXT TERR | 0.274 | 0.27 | 1.9 | | | | |
| 28.000 | D TIERRA | 4.581 | 4.65 | 188.3 | ADECUADO COR | 4.538 | 4.52 | 113.6 |
| | REV EXT TERR | 0.290 | 0.28 | 2.2 | | | | |
| 29.000 | D TIERRA | 4.447 | 4.51 | 192.8 | ADECUADO COR | 4.568 | 4.55 | 118.2 |
| | REV EXT TERR | 0.304 | 0.30 | 2.5 | | | | |
| 30.000 | D TIERRA | 4.323 | 4.39 | 197.1 | ADECUADO COR | 4.595 | 4.58 | 122.7 |
| | REV EXT TERR | 0.317 | 0.31 | 2.8 | | | | |
| 31.000 | D TIERRA | 4.209 | 4.27 | 201.4 | ADECUADO COR | 4.617 | 4.61 | 127.4 |
| | REV EXT TERR | 0.329 | 0.32 | 3.1 | | | | |
| 32.000 | D TIERRA | 4.104 | 4.16 | 205.6 | ADECUADO COR | 4.636 | 4.63 | 132.0 |
| | REV EXT TERR | 0.339 | 0.33 | 3.5 | | | | |
| 33.000 | D TIERRA | 4.012 | 4.06 | 209.6 | ADECUADO COR | 4.653 | 4.64 | 136.6 |
| | REV EXT TERR | 0.347 | 0.34 | 3.8 | | | | |
| 34.000 | D TIERRA | 3.933 | 3.97 | 213.6 | ADECUADO COR | 4.664 | 4.66 | 141.3 |
| | REV EXT TERR | 0.354 | 0.35 | 4.2 | | | | |
| 35.000 | D TIERRA | 3.868 | 3.90 | 217.5 | ADECUADO COR | 4.671 | 4.67 | 145.9 |
| | REV EXT TERR | 0.359 | 0.36 | 4.5 | | | | |
| 36.000 | D TIERRA | 3.815 | 3.84 | 221.3 | ADECUADO COR | 4.675 | 4.67 | 150.6 |
| | REV EXT TERR | 0.362 | 0.36 | 4.9 | | | | |
| 37.000 | D TIERRA | 3.775 | 3.79 | 225.1 | ADECUADO COR | 4.676 | 4.68 | 155.3 |
| | REV EXT TERR | 0.364 | 0.36 | 5.3 | | | | |

Istram 22.08.08.03 03/11/22 12:21:38 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol1)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 38.000 | D TIERRA | 3.752 | 3.76 | 228.9 | ADECUADO COR | 4.674 | 4.68 | 160.0 |
| | REV EXT TERR | 0.363 | 0.36 | 5.6 | | | | |
| 39.000 | D TIERRA | 3.743 | 3.75 | 232.6 | ADECUADO COR | 4.669 | 4.67 | 164.6 |
| | REV EXT TERR | 0.361 | 0.36 | 6.0 | | | | |
| 40.000 | D TIERRA | 3.741 | 3.74 | 236.4 | ADECUADO COR | 4.662 | 4.67 | 169.3 |
| | REV EXT TERR | 0.358 | 0.36 | 6.3 | | | | |
| 41.000 | D TIERRA | 3.741 | 3.74 | 240.1 | ADECUADO COR | 4.655 | 4.66 | 174.0 |
| | REV EXT TERR | 0.355 | 0.36 | 6.7 | | | | |
| 42.000 | D TIERRA | 3.740 | 3.74 | 243.9 | ADECUADO COR | 4.648 | 4.65 | 178.6 |
| | REV EXT TERR | 0.352 | 0.35 | 7.1 | | | | |
| 43.000 | D TIERRA | 3.738 | 3.74 | 247.6 | ADECUADO COR | 4.641 | 4.64 | 183.3 |
| | REV EXT TERR | 0.349 | 0.35 | 7.4 | | | | |
| 44.000 | D TIERRA | 3.735 | 3.74 | 251.3 | ADECUADO COR | 4.633 | 4.64 | 187.9 |
| | REV EXT TERR | 0.346 | 0.35 | 7.7 | | | | |
| 45.000 | D TIERRA | 3.732 | 3.73 | 255.1 | ADECUADO COR | 4.625 | 4.63 | 192.5 |
| | REV EXT TERR | 0.342 | 0.34 | 8.1 | | | | |
| 46.000 | D TIERRA | 3.729 | 3.73 | 258.8 | ADECUADO COR | 4.618 | 4.62 | 197.2 |
| | REV EXT TERR | 0.339 | 0.34 | 8.4 | | | | |
| 47.000 | D TIERRA | 3.725 | 3.73 | 262.5 | ADECUADO COR | 4.610 | 4.61 | 201.8 |
| | REV EXT TERR | 0.335 | 0.34 | 8.8 | | | | |
| 48.000 | D TIERRA | 3.721 | 3.72 | 266.3 | ADECUADO COR | 4.603 | 4.61 | 206.4 |
| | REV EXT TERR | 0.332 | 0.33 | 9.1 | | | | |
| 49.000 | D TIERRA | 3.720 | 3.72 | 270.0 | ADECUADO COR | 4.597 | 4.60 | 211.0 |
| | REV EXT TERR | 0.328 | 0.33 | 9.4 | | | | |
| 50.000 | D TIERRA | 3.719 | 3.72 | 273.7 | ADECUADO COR | 4.591 | 4.59 | 215.6 |
| | REV EXT TERR | 0.325 | 0.33 | 9.8 | | | | |
| 51.000 | D TIERRA | 3.718 | 3.72 | 277.4 | ADECUADO COR | 4.586 | 4.59 | 220.2 |
| | REV EXT TERR | 0.322 | 0.32 | 10.1 | | | | |
| 52.000 | D TIERRA | 3.716 | 3.72 | 281.1 | ADECUADO COR | 4.581 | 4.58 | 224.7 |
| | REV EXT TERR | 0.319 | 0.32 | 10.4 | | | | |
| 53.000 | D TIERRA | 3.715 | 3.72 | 284.9 | ADECUADO COR | 4.575 | 4.58 | 229.3 |
| | REV EXT TERR | 0.316 | 0.32 | 10.7 | | | | |
| 54.000 | D TIERRA | 3.714 | 3.71 | 288.6 | ADECUADO COR | 4.570 | 4.57 | 233.9 |
| | REV EXT TERR | 0.314 | 0.32 | 11.0 | | | | |
| 55.000 | D TIERRA | 3.715 | 3.71 | 292.3 | ADECUADO COR | 4.565 | 4.57 | 238.5 |
| | REV EXT TERR | 0.311 | 0.31 | 11.4 | | | | |
| 56.000 | D TIERRA | 3.716 | 3.72 | 296.0 | ADECUADO COR | 4.559 | 4.56 | 243.0 |
| | REV EXT TERR | 0.309 | 0.31 | 11.7 | | | | |
| 57.000 | D TIERRA | 3.718 | 3.72 | 299.7 | ADECUADO COR | 4.555 | 4.56 | 247.6 |
| | REV EXT TERR | 0.306 | 0.31 | 12.0 | | | | |
| 58.000 | D TIERRA | 3.722 | 3.72 | 303.4 | ADECUADO COR | 4.551 | 4.55 | 252.1 |
| | REV EXT TERR | 0.304 | 0.30 | 12.3 | | | | |
| 59.000 | D TIERRA | 3.724 | 3.72 | 307.2 | ADECUADO COR | 4.548 | 4.55 | 256.7 |
| | REV EXT TERR | 0.302 | 0.30 | 12.6 | | | | |
| 60.000 | D TIERRA | 3.727 | 3.73 | 310.9 | ADECUADO COR | 4.545 | 4.55 | 261.2 |
| | REV EXT TERR | 0.300 | 0.30 | 12.9 | | | | |
| 61.000 | D TIERRA | 3.732 | 3.73 | 314.6 | ADECUADO COR | 4.541 | 4.54 | 265.8 |
| | REV EXT TERR | 0.297 | 0.30 | 13.2 | | | | |
| 62.000 | D TIERRA | 3.736 | 3.73 | 318.3 | ADECUADO COR | 4.538 | 4.54 | 270.3 |
| | REV EXT TERR | 0.295 | 0.30 | 13.5 | | | | |
| 63.000 | D TIERRA | 3.740 | 3.74 | 322.1 | ADECUADO COR | 4.534 | 4.54 | 274.8 |
| | REV EXT TERR | 0.293 | 0.29 | 13.8 | | | | |
| 64.000 | D TIERRA | 3.784 | 3.76 | 325.8 | ADECUADO COR | 4.526 | 4.53 | 279.4 |
| | REV EXT TERR | 0.288 | 0.29 | 14.1 | | | | |
| 65.000 | D TIERRA | 3.835 | 3.81 | 329.7 | ADECUADO COR | 4.518 | 4.52 | 283.9 |
| | REV EXT TERR | 0.283 | 0.29 | 14.3 | | | | |
| 66.000 | D TIERRA | 3.882 | 3.86 | 333.5 | ADECUADO COR | 4.510 | 4.51 | 288.4 |
| | REV EXT TERR | 0.278 | 0.28 | 14.6 | | | | |
| 67.000 | D TIERRA | 3.929 | 3.91 | 337.4 | ADECUADO COR | 4.502 | 4.51 | 292.9 |
| | REV EXT TERR | 0.274 | 0.28 | 14.9 | | | | |
| 68.000 | D TIERRA | 3.974 | 3.95 | 341.4 | ADECUADO COR | 4.495 | 4.50 | 297.4 |
| | REV EXT TERR | 0.270 | 0.27 | 15.2 | | | | |
| 69.000 | D TIERRA | 4.019 | 4.00 | 345.4 | ADECUADO COR | 4.487 | 4.49 | 301.9 |
| | REV EXT TERR | 0.266 | 0.27 | 15.4 | | | | |
| 70.000 | D TIERRA | 4.064 | 4.04 | 349.4 | ADECUADO COR | 4.479 | 4.48 | 306.4 |
| | REV EXT TERR | 0.262 | 0.26 | 15.7 | | | | |
| 71.000 | D TIERRA | 4.108 | 4.09 | 353.5 | ADECUADO COR | 4.472 | 4.48 | 310.9 |
| | REV EXT TERR | 0.258 | 0.26 | 16.0 | | | | |
| 72.000 | D TIERRA | 4.151 | 4.13 | 357.6 | ADECUADO COR | 4.464 | 4.47 | 315.3 |
| | REV EXT TERR | 0.255 | 0.26 | 16.2 | | | | |
| 73.000 | D TIERRA | 4.193 | 4.17 | 361.8 | ADECUADO COR | 4.457 | 4.46 | 319.8 |
| | REV EXT TERR | 0.251 | 0.25 | 16.5 | | | | |
| 74.000 | D TIERRA | 4.236 | 4.21 | 366.0 | ADECUADO COR | 4.449 | 4.45 | 324.2 |
| | REV EXT TERR | 0.248 | 0.25 | 16.7 | | | | |
| 75.000 | D TIERRA | 4.277 | 4.26 | 370.3 | ADECUADO COR | | | |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol1)

Istram 22.08.08.03 03/11/22 12:21:38 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol1)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 76.000 | D TIERRA | 4.319 | 4.30 | 374.6 | ADECUADO COR | 4.435 | 4.44 | 333.1 |
| | REV EXT TERR | 0.241 | 0.24 | 17.2 | | | | |
| 77.000 | D TIERRA | 4.361 | 4.34 | 378.9 | ADECUADO COR | 4.428 | 4.43 | 337.6 |
| | REV EXT TERR | 0.238 | 0.24 | 17.4 | | | | |
| 78.000 | D TIERRA | 4.589 | 4.47 | 383.4 | ADECUADO COR | 4.421 | 4.42 | 342.0 |
| | REV EXT TERR | 0.271 | 0.25 | 17.7 | | | | |
| 79.000 | D TIERRA | 4.630 | 4.61 | 388.0 | ADECUADO COR | 4.414 | 4.42 | 346.4 |
| | REV EXT TERR | 0.268 | 0.27 | 18.0 | | | | |
| 80.000 | D TIERRA | 3.731 | 4.18 | 392.2 | ADECUADO COR | 3.679 | 4.05 | 350.4 |
| | REV EXT TERR | 0.307 | 0.29 | 18.3 | | | | |
| 81.000 | D TIERRA | 3.765 | 3.75 | 395.9 | ADECUADO COR | 3.670 | 3.67 | 354.1 |
| | REV EXT TERR | 0.303 | 0.31 | 18.6 | | | | |
| 82.000 | D TIERRA | 3.800 | 3.78 | 399.7 | ADECUADO COR | 3.661 | 3.67 | 357.8 |
| | REV EXT TERR | 0.300 | 0.30 | 18.9 | | | | |
| 83.000 | D TIERRA | 3.834 | 3.82 | 403.5 | ADECUADO COR | 3.652 | 3.66 | 361.4 |
| | REV EXT TERR | 0.296 | 0.30 | 19.2 | | | | |
| 84.000 | D TIERRA | 3.868 | 3.85 | 407.4 | ADECUADO COR | 3.643 | 3.65 | 365.1 |
| | REV EXT TERR | 0.292 | 0.29 | 19.5 | | | | |
| 85.000 | D TIERRA | 3.902 | 3.89 | 411.3 | ADECUADO COR | 3.634 | 3.64 | 368.7 |
| | REV EXT TERR | 0.289 | 0.29 | 19.7 | | | | |
| 86.000 | D TIERRA | 3.935 | 3.92 | 415.2 | ADECUADO COR | 3.625 | 3.63 | 372.4 |
| | REV EXT TERR | 0.285 | 0.29 | 20.0 | | | | |
| 87.000 | D TIERRA | 3.969 | 3.95 | 419.1 | ADECUADO COR | 3.616 | 3.62 | 376.0 |
| | REV EXT TERR | 0.282 | 0.28 | 20.3 | | | | |
| 88.000 | D TIERRA | 4.002 | 3.99 | 423.1 | ADECUADO COR | 3.607 | 3.61 | 379.6 |
| | REV EXT TERR | 0.278 | 0.28 | 20.6 | | | | |
| 89.000 | D TIERRA | 4.034 | 4.02 | 427.1 | ADECUADO COR | 3.598 | 3.60 | 383.2 |
| | REV EXT TERR | 0.275 | 0.28 | 20.9 | | | | |
| 90.000 | D TIERRA | 4.066 | 4.05 | 431.2 | ADECUADO COR | 3.589 | 3.59 | 386.8 |
| | REV EXT TERR | 0.271 | 0.27 | 21.1 | | | | |
| 91.000 | D TIERRA | 4.099 | 4.08 | 435.3 | ADECUADO COR | 3.579 | 3.58 | 390.4 |
| | REV EXT TERR | 0.267 | 0.27 | 21.4 | | | | |
| 92.000 | D TIERRA | 4.132 | 4.12 | 439.4 | ADECUADO COR | 3.570 | 3.57 | 394.0 |
| | REV EXT TERR | 0.264 | 0.27 | 21.7 | | | | |
| 93.000 | D TIERRA | 4.111 | 4.12 | 443.5 | ADECUADO COR | 3.580 | 3.57 | 397.5 |
| | REV EXT TERR | 0.268 | 0.27 | 21.9 | | | | |
| 94.000 | D TIERRA | 4.057 | 4.08 | 447.6 | ADECUADO COR | 3.602 | 3.59 | 401.1 |
| | REV EXT TERR | 0.276 | 0.27 | 22.2 | | | | |
| 95.000 | D TIERRA | 4.005 | 4.03 | 451.6 | ADECUADO COR | 3.622 | 3.61 | 404.7 |
| | REV EXT TERR | 0.284 | 0.28 | 22.5 | | | | |
| 96.000 | D TIERRA | 3.956 | 3.98 | 455.6 | ADECUADO COR | 3.641 | 3.63 | 408.4 |
| | REV EXT TERR | 0.292 | 0.29 | 22.8 | | | | |
| 97.000 | D TIERRA | 3.909 | 3.93 | 459.5 | ADECUADO COR | 3.658 | 3.65 | 412.0 |
| | REV EXT TERR | 0.298 | 0.30 | 23.1 | | | | |
| 98.000 | D TIERRA | 3.865 | 3.89 | 463.4 | ADECUADO COR | 3.674 | 3.67 | 415.7 |
| | REV EXT TERR | 0.305 | 0.30 | 23.4 | | | | |
| 99.000 | D TIERRA | 3.825 | 3.85 | 467.3 | ADECUADO COR | 3.688 | 3.68 | 419.4 |
| | REV EXT TERR | 0.310 | 0.31 | 23.7 | | | | |
| 100.000 | D TIERRA | 3.787 | 3.81 | 471.1 | ADECUADO COR | 3.702 | 3.69 | 423.1 |
| | REV EXT TERR | 0.316 | 0.31 | 24.0 | | | | |
| 101.000 | D TIERRA | 3.753 | 3.77 | 474.8 | ADECUADO COR | 3.713 | 3.71 | 426.8 |
| | REV EXT TERR | 0.320 | 0.32 | 24.3 | | | | |
| 102.000 | D TIERRA | 3.722 | 3.74 | 478.6 | ADECUADO COR | 3.724 | 3.72 | 430.5 |
| | REV EXT TERR | 0.325 | 0.32 | 24.6 | | | | |
| 103.000 | D TIERRA | 3.694 | 3.71 | 482.3 | ADECUADO COR | 3.734 | 3.73 | 434.2 |
| | REV EXT TERR | 0.328 | 0.33 | 25.0 | | | | |
| 104.000 | D TIERRA | 3.548 | 3.62 | 485.9 | ADECUADO COR | 3.785 | 3.76 | 438.0 |
| | REV EXT TERR | 0.354 | 0.34 | 25.3 | | | | |
| 105.000 | D TIERRA | 3.523 | 3.54 | 489.4 | ADECUADO COR | 3.795 | 3.79 | 441.8 |
| | REV EXT TERR | 0.358 | 0.36 | 25.7 | | | | |
| 106.000 | D TIERRA | 3.508 | 3.52 | 493.0 | ADECUADO COR | 3.801 | 3.80 | 445.6 |
| | REV EXT TERR | 0.361 | 0.36 | 26.0 | | | | |
| 107.000 | D TIERRA | 3.497 | 3.50 | 496.5 | ADECUADO COR | 3.807 | 3.80 | 449.4 |
| | REV EXT TERR | 0.363 | 0.36 | 26.4 | | | | |
| 108.000 | D TIERRA | 3.490 | 3.49 | 499.9 | ADECUADO COR | 3.811 | 3.81 | 453.2 |
| | REV EXT TERR | 0.365 | 0.36 | 26.8 | | | | |
| 109.000 | D TIERRA | 3.489 | 3.49 | 503.4 | ADECUADO COR | 3.813 | 3.81 | 457.0 |
| | REV EXT TERR | 0.366 | 0.37 | 27.1 | | | | |
| 110.000 | D TIERRA | 3.491 | 3.49 | 506.9 | ADECUADO COR | 3.815 | 3.81 | 460.8 |
| | REV EXT TERR | 0.367 | 0.37 | 27.5 | | | | |
| 111.000 | D TIERRA | 3.497 | 3.49 | 510.4 | ADECUADO COR | 3.815 | 3.81 | 464.6 |
| | REV EXT TERR | 0.367 | 0.37 | 27.9 | | | | |
| 112.000 | D TIERRA | 3.507 | 3.50 | 513.9 | ADECUADO COR | 3.814 | 3.81 | 468.4 |
| | REV EXT TERR | 0.366 | 0.37 | 28.2 | | | | |
| 113.000 | D TIERRA | 3.522 | 3.51 | 517.4 | ADECUADO COR | 3.811 | 3.81 | 472.2 |
| | REV EXT TERR | 0.365 | 0.37 | 28.6 | | | | |

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
| 114.000 | D TIERRA | 3.538 | 3.53 | 521.0 | ADECUADO COR | 3.806 | 3.81 | 476.0 |
| | REV EXT TERR | 0.362 | 0.36 | 28.9 | | | | |
| 115.000 | D TIERRA | 3.539 | 3.54 | 524.5 | ADECUADO COR | 3.803 | 3.80 | 479.8 |
| | REV EXT TERR | 0.360 | 0.36 | 29.3 | | | | |
| 116.000 | D TIERRA | 3.546 | 3.54 | 528.0 | ADECUADO COR | 3.798 | 3.80 | 483.6 |
| | REV EXT TERR | 0.358 | 0.36 | 29.7 | | | | |
| 117.000 | D TIERRA | 3.447 | 3.50 | 531.5 | ADECUADO COR | 3.825 | 3.81 | 487.5 |
| | REV EXT TERR | 0.368 | 0.36 | 30.0 | | | | |
| 118.000 | D TIERRA | 3.432 | 3.44 | 535.0 | ADECUADO COR | 3.829 | 3.83 | 491.3 |
| | REV EXT TERR | 0.369 | 0.37 | 30.4 | | | | |
| 119.000 | D TIERRA | 3.545 | 3.49 | 538.5 | ADECUADO COR | 3.796 | 3.81 | 495.1 |
| | REV EXT TERR | 0.354 | 0.36 | 30.8 | | | | |
| 120.000 | D TIERRA | 3.576 | 3.56 | 542.0 | ADECUADO COR | 3.787 | 3.79 | 498.9 |
| | REV EXT TERR | 0.350 | 0.35 | 31.1 | | | | |
| 121.000 | D TIERRA | 3.523 | 3.55 | 545.6 | ADECUADO COR | 3.805 | 3.80 | 502.7 |
| | REV EXT TERR | 0.356 | 0.35 | 31.5 | | | | |
| 122.000 | D TIERRA | 3.477 | 3.50 | 549.1 | ADECUADO COR | 3.821 | 3.81 | 506.5 |
| | REV EXT TERR | 0.361 | 0.36 | 31.8 | | | | |
| 123.000 | D TIERRA | 3.488 | 3.48 | 552.6 | ADECUADO COR | 3.821 | 3.82 | 510.3 |
| | REV EXT TERR | 0.360 | 0.36 | 32.2 | | | | |
| 124.000 | D TIERRA | 3.634 | 3.56 | 556.1 | ADECUADO COR | 3.785 | 3.80 | 514.1 |
| | REV EXT TERR | 0.345 | 0.35 | 32.5 | | | | |
| 125.000 | D TIERRA | 3.779 | 3.71 | 559.8 | ADECUADO COR | 3.744 | 3.76 | 517.9 |
| | REV EXT TERR | 0.328 | 0.34 | 32.9 | | | | |
| 126.000 | D TIERRA | 3.918 | 3.85 | 563.7 | ADECUADO COR | 3.693 | 3.72 | 521.6 |
| | REV EXT TERR | 0.308 | 0.32 | 33.2 | | | | |
| 127.000 | D TIERRA | 4.068 | 3.99 | 567.7 | ADECUADO COR | 3.645 | 3.67 | 525.3 |
| | REV EXT TERR | 0.290 | 0.30 | 33.5 | | | | |
| 128.000 | D TIERRA | 4.210 | 4.14 | 571.8 | ADECUADO COR | 3.587 | 3.62 | 528.9 |
| | REV EXT TERR | 0.272 | 0.28 | 33.8 | | | | |
| 129.000 | D TIERRA | 4.361 | 4.29 | 576.1 | ADECUADO COR | 3.556 | 3.57 | 532.5 |
| | REV EXT TERR | 0.264 | 0.27 | 34.0 | | | | |
| 130.000 | D TIERRA | 4.500 | 4.43 | 580.5 | ADECUADO COR | 3.535 | 3.55 | 536.0 |
| | REV EXT TERR | 0.263 | 0.26 | 34.3 | | | | |
| 131.000 | D TIERRA | 4.213 | 4.36 | 584.9 | ADECUADO COR | 3.614 | 3.57 | 539.6 |
| | REV EXT TERR | 0.265 | 0.26 | 34.6 | | | | |
| 132.000 | D TIERRA | 4.236 | 4.22 | 589.1 | ADECUADO COR | 3.598 | 3.61 | 543.2 |
| | REV EXT TERR | 0.268 | 0.27 | 34.8 | | | | |
| 133.000 | D TIERRA | 4.150 | 4.19 | 593.3 | ADECUADO COR | 3.667 | 3.63 | 546.8 |
| | REV EXT TERR | 0.288 | 0.28 | 35.1 | | | | |
| 134.000 | D TIERRA | 4.069 | 4.11 | 597.4 | ADECUADO COR | 3.734 | 3.70 | 550.5 |
| | REV EXT TERR | 0.307 | 0.30 | 35.4 | | | | |
| 135.000 | D TIERRA | 3.982 | 4.03 | 601.4 | ADECUADO COR | 3.793 | 3.76 | 554.3 |
| | REV EXT TERR | 0.326 | 0.32 | 35.7 | | | | |
| 136.000 | D TIERRA | 4.036 | 4.01 | 605.4 | ADECUADO COR | 3.758 | 3.78 | 558.1 |
| | REV EXT TERR | 0.317 | 0.32 | 36.1 | | | | |
| 137.000 | D TIERRA | 4.073 | 4.05 | 609.5 | ADECUADO COR | 3.711 | 3.73 | 561.8 |
| | REV EXT TERR | 0.306 | 0.31 | 36.4 | | | | |
| 138.000 | D TIERRA | 4.127 | 4.10 | 613.6 | ADECUADO COR | 3.662 | 3.69 | 565.5 |
| | REV EXT TERR | 0.290 | 0.30 | 36.7 | | | | |
| 139.000 | D TIERRA | 4.214 | 4.17 | 617.8 | ADECUADO COR | 3.610 | 3.64 | 569.1 |
| | REV EXT TERR | 0.270 | 0.28 | 36.9 | | | | |
| 140.000 | D TIERRA | 4.298 | 4.26 | 622.0 | ADECUADO COR | 3.552 | 3.58 | 572.7 |
| | REV EXT TERR | 0.249 | 0.26 | 37.2 | | | | |
| 141.000 | D TIERRA | 4.335 | 4.32 | 626.3 | ADECUADO COR | 3.516 | 3.53 | 576.2 |
| | REV EXT TERR | 0.238 | 0.24 | 37.4 | | | | |
| 142.000 | D TIERRA | 4.379 | 4.36 | 630.7 | ADECUADO COR | 3.480 | 3.50 | 579.7 |
| | REV EXT TERR | 0.227 | 0.23 | 37.7 | | | | |
| 143.000 | D TIERRA | 4.421 | 4.40 | 635.1 | ADECUADO COR | 3.439 | 3.46 | 583.2 |
| | REV EXT TERR | 0.211 | 0.22 | 37.9 | | | | |
| 144.000 | D TIERRA | 4.415 | 4.42 | 639.5 | ADECUADO COR | 3.427 | 3.43 | 586.6 |
| | REV EXT TERR | 0.207 | 0.21 | 38.1 | | | | |
| 145.000 | D TIERRA | 4.419 | 4.42 | 643.9 | ADECUADO COR | 3.413 | 3.42 | 590.0 |
| | REV EXT TERR | 0.201 | 0.20 | 38.3 | | | | |
| 146.000 | D TIERRA | 4.429 | 4.42 | 648.4 | ADECUADO COR | 3.397 | 3.40 | 593.5 |
| | REV EXT TERR | 0.195 | 0.20 | 38.5 | | | | |
| 147.000 | D TIERRA | 4.444 | 4.44 | 652.8 | ADECUADO COR | 3.380 | 3.39 | 596.8 |
| | REV EXT TERR | 0.188 | 0.19 | 38.7 | | | | |
| 148.000 | D TIERRA | 4.461 | 4.45 | 657.2 | ADECUADO COR | 3.365 | 3.37 | 600.2 |
| | REV EXT TERR | 0.182 | 0.18 | 38.9 | | | | |
| 149.000 | D TIERRA | 4.492 | 4.48 | 661.7 | ADECUADO COR | 3.346 | 3.36 | 603.6 |
| | REV EXT TERR | 0.175 | 0.18 | 39.1 | | | | |
| 150.000 | D TIERRA | 4.552 | 4.52 | 666.2 | ADECUADO COR | 3.317 | 3.33 | 606.9 |
| | REV EXT TERR | 0.164 | 0.17 | 39.2 | | | | |
| 151.000 | D TIERRA | 4.609 | 4.58 | 670.8 | ADECUADO COR | 3.290 | | |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 152.000 | D TIERRA | 4.647 | 4.63 | 675.5 | ADECUADO COR | 3.279 | 3.28 | 613.5 |
| | REV EXT TERR | 0.149 | 0.15 | 39.5 | | | | |
| 153.000 | D TIERRA | 4.655 | 4.65 | 680.1 | ADECUADO COR | 3.290 | 3.28 | 616.8 |
| | REV EXT TERR | 0.154 | 0.15 | 39.7 | | | | |
| 154.000 | D TIERRA | 4.676 | 4.67 | 684.8 | ADECUADO COR | 3.282 | 3.29 | 620.1 |
| | REV EXT TERR | 0.150 | 0.15 | 39.8 | | | | |
| 155.000 | D TIERRA | 4.720 | 4.70 | 689.5 | ADECUADO COR | 3.294 | 3.29 | 623.3 |
| | REV EXT TERR | 0.153 | 0.15 | 40.0 | | | | |
| 156.000 | D TIERRA | 4.833 | 4.78 | 694.2 | ADECUADO COR | 3.324 | 3.31 | 626.7 |
| | REV EXT TERR | 0.164 | 0.16 | 40.2 | | | | |
| 157.000 | D TIERRA | 4.405 | 4.62 | 698.9 | ADECUADO COR | 3.440 | 3.38 | 630.0 |
| | REV EXT TERR | 0.184 | 0.17 | 40.3 | | | | |
| 158.000 | D TIERRA | 4.495 | 4.45 | 703.3 | ADECUADO COR | 3.488 | 3.46 | 633.5 |
| | REV EXT TERR | 0.229 | 0.21 | 40.5 | | | | |
| 159.000 | D TIERRA | 4.561 | 4.53 | 707.8 | ADECUADO COR | 3.413 | 3.45 | 636.9 |
| | REV EXT TERR | 0.210 | 0.22 | 40.8 | | | | |
| 160.000 | D TIERRA | 4.647 | 4.60 | 712.4 | ADECUADO COR | 3.335 | 3.37 | 640.3 |
| | REV EXT TERR | 0.179 | 0.19 | 40.9 | | | | |
| 161.000 | D TIERRA | 4.779 | 4.71 | 717.2 | ADECUADO COR | 3.255 | 3.29 | 643.6 |
| | REV EXT TERR | 0.147 | 0.16 | 41.1 | | | | |
| 162.000 | D TIERRA | 4.899 | 4.84 | 722.0 | ADECUADO COR | 3.177 | 3.22 | 646.8 |
| | REV EXT TERR | 0.115 | 0.13 | 41.2 | | | | |
| 163.000 | D TIERRA | 5.432 | 5.17 | 727.2 | REVEST DESMON | 0.008 | 0.00 | 1.8 |
| | ADECUADO COR | 3.381 | 3.28 | 650.1 | REV EXT TERR | 0.049 | 0.08 | 41.3 |
| 164.000 | D TIERRA | 5.663 | 5.55 | 732.7 | REVEST DESMON | 0.026 | 0.02 | 1.8 |
| | ADECUADO COR | 3.342 | 3.36 | 653.5 | REV EXT TERR | 0.033 | 0.04 | 41.4 |
| 165.000 | D TIERRA | 5.892 | 5.78 | 738.5 | REVEST DESMON | 0.043 | 0.03 | 1.9 |
| | ADECUADO COR | 3.303 | 3.32 | 656.8 | REV EXT TERR | 0.018 | 0.03 | 41.4 |
| 166.000 | D TIERRA | 6.117 | 6.00 | 744.5 | REVEST DESMON | 0.061 | 0.05 | 1.9 |
| | ADECUADO COR | 3.265 | 3.28 | 660.1 | | | | |
| 167.000 | D TIERRA | 6.700 | 6.41 | 750.9 | REVEST DESMON | 0.076 | 0.07 | 2.0 |
| | ADECUADO COR | 3.461 | 3.36 | 663.4 | | | | |
| 168.000 | D TIERRA | 7.052 | 6.88 | 757.8 | REVEST DESMON | 0.108 | 0.09 | 2.1 |
| | ADECUADO COR | 3.510 | 3.49 | 666.9 | | | | |
| 169.000 | D TIERRA | 6.972 | 7.01 | 764.8 | REVEST DESMON | 0.099 | 0.10 | 2.2 |
| | ADECUADO COR | 3.510 | 3.51 | 670.4 | | | | |
| 169.434 | D TIERRA | 6.890 | 3.01 | 767.8 | REVEST DESMON | 0.091 | 0.04 | 2.2 |
| | ADECUADO COR | 3.510 | 1.52 | 672.0 | | | | |
| 170.000 | D TIERRA | 6.844 | 3.89 | 771.7 | REVEST DESMON | 0.080 | 0.05 | 2.3 |
| | ADECUADO COR | 3.539 | 1.99 | 674.0 | | | | |
| 171.000 | D TIERRA | 6.974 | 6.91 | 778.6 | REVEST DESMON | 0.084 | 0.08 | 2.3 |
| | ADECUADO COR | 3.591 | 3.57 | 677.5 | | | | |
| 171.279 | D TIERRA | 7.060 | 1.96 | 780.6 | REVEST DESMON | 0.090 | 0.02 | 2.4 |
| | ADECUADO COR | 3.605 | 1.00 | 678.5 | | | | |
| 172.000 | D TIERRA | 7.448 | 5.23 | 785.8 | REVEST DESMON | 0.106 | 0.07 | 2.4 |
| | ADECUADO COR | 3.719 | 2.64 | 681.2 | | | | |
| 173.000 | D TIERRA | 7.852 | 7.65 | 793.4 | REVEST DESMON | 0.112 | 0.11 | 2.5 |
| | ADECUADO COR | 3.877 | 3.80 | 685.0 | | | | |
| 173.071 | D TIERRA | 7.869 | 0.56 | 794.0 | REVEST DESMON | 0.110 | 0.01 | 2.6 |
| | ADECUADO COR | 3.888 | 0.28 | 685.2 | | | | |
| 174.000 | D TIERRA | 8.291 | 7.51 | 801.5 | REVEST DESMON | 0.086 | 0.09 | 2.6 |
| | ADECUADO COR | 4.143 | 3.73 | 689.0 | | | | |
| 174.759 | D TIERRA | 8.739 | 6.46 | 808.0 | REVEST DESMON | 0.069 | 0.06 | 2.7 |
| | ADECUADO COR | 4.351 | 3.22 | 692.2 | | | | |
| 175.000 | D TIERRA | 8.934 | 2.13 | 810.1 | REVEST DESMON | 0.062 | 0.02 | 2.7 |
| | ADECUADO COR | 4.450 | 1.06 | 693.3 | | | | |
| 175.548 | D TIERRA | 9.393 | 5.02 | 815.1 | REVEST DESMON | 0.037 | 0.03 | 2.7 |
| | ADECUADO COR | 4.674 | 2.50 | 695.8 | | | | |
| 176.000 | D TIERRA | 9.795 | 4.34 | 819.4 | REVEST DESMON | 0.041 | 0.02 | 2.8 |
| | ADECUADO COR | 4.880 | 2.16 | 697.9 | | | | |
| 176.291 | D TIERRA | 10.069 | 2.89 | 822.3 | REVEST DESMON | 0.045 | 0.01 | 2.8 |
| | ADECUADO COR | 5.011 | 1.44 | 699.4 | | | | |
| 176.876 | D TIERRA | 10.745 | 6.09 | 828.4 | REVEST DESMON | 0.052 | 0.03 | 2.8 |
| | ADECUADO COR | 5.378 | 3.04 | 702.4 | | | | |
| 177.000 | D TIERRA | 10.540 | 1.32 | 829.7 | REVEST DESMON | 0.053 | 0.01 | 2.8 |
| | ADECUADO COR | 5.209 | 0.66 | 703.0 | | | | |
| 177.620 | D TIERRA | 11.672 | 6.89 | 836.6 | REVEST DESMON | 0.064 | 0.04 | 2.8 |
| | ADECUADO COR | 5.755 | 3.40 | 706.4 | REV EXT TERR | 0.087 | 0.03 | 41.4 |
| 178.000 | D TIERRA | 12.340 | 4.56 | 841.2 | REVEST DESMON | 0.071 | 0.03 | 2.9 |
| | ADECUADO COR | 6.108 | 2.25 | 708.7 | REV EXT TERR | 0.083 | 0.03 | 41.5 |
| 178.177 | D TIERRA | 12.543 | 2.20 | 843.4 | REVEST DESMON | 0.071 | 0.01 | 2.9 |
| | ADECUADO COR | 6.268 | 1.10 | 709.8 | REV EXT TERR | 0.079 | 0.01 | 41.5 |
| 178.701 | D TIERRA | 13.136 | 6.73 | 850.1 | REVEST DESMON | 0.070 | 0.04 | 2.9 |
| | ADECUADO COR | 6.792 | 3.42 | 713.2 | REV EXT TERR | 0.023 | 0.03 | 41.5 |
| 179.000 | D TIERRA | 13.769 | 4.02 | 854.1 | REVEST DESMON | 0.069 | 0.02 | 2.9 |
| | ADECUADO COR | 7.215 | 2.09 | 715.3 | REV EXT TERR | 0.016 | 0.01 | 41.5 |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 179.423 | D TIERRA | 14.517 | 5.98 | 860.1 | REVEST DESMON | 0.067 | 0.03 | 3.0 |
| | ADECUADO COR | 7.821 | 3.18 | 718.5 | REV EXT TERR | 0.008 | 0.00 | 41.5 |
| 179.496 | D TIERRA | 14.664 | 1.07 | 861.2 | REVEST DESMON | 0.066 | 0.00 | 3.0 |
| | ADECUADO COR | 7.933 | 0.58 | 719.1 | REV EXT TERR | 0.006 | 0.00 | 41.5 |
| 179.876 | D TIERRA | 31.044 | 8.68 | 869.9 | REVEST DESMON | 2.251 | 0.44 | 3.4 |
| | ADECUADO COR | 11.534 | 3.70 | 722.8 | | | | |
| 179.971 | D TIERRA | 16.712 | 2.27 | 872.1 | REVEST DESMON | 0.063 | 0.11 | 3.5 |
| | ADECUADO COR | 9.295 | 0.99 | 723.8 | | | | |
| 180.000 | D TIERRA | 17.217 | 0.49 | 872.6 | REVEST DESMON | 0.062 | 0.00 | 3.5 |
| | ADECUADO COR | 9.597 | 0.27 | 724.0 | | | | |
| 180.103 | D TIERRA | 18.808 | 1.86 | 874.5 | REVEST DESMON | 0.064 | 0.01 | 3.5 |
| | ADECUADO COR | 10.519 | 1.04 | 725.1 | | | | |
| 180.589 | D TIERRA | 16.649 | 8.62 | 883.1 | REVEST DESMON | 0.063 | 0.03 | 3.6 |
| | ADECUADO COR | 9.352 | 4.83 | 729.9 | | | | |
| 181.000 | D TIERRA | 14.891 | 6.48 | 889.6 | REVEST DESMON | 0.043 | 0.02 | 3.6 |
| | ADECUADO COR | 8.416 | 3.65 | 733.5 | | | | |
| 181.651 | D TIERRA | 10.611 | 8.30 | 897.9 | REVEST DESMON | 0.000 | 0.01 | 3.6 |
| | ADECUADO COR | 6.704 | 4.92 | 738.5 | REV EXT TERR | 0.004 | 0.00 | 41.5 |
| 182.000 | D TIERRA | 8.393 | 3.32 | 901.2 | ADECUADO COR | 5.855 | 2.19 | 740.7 |
| | REV EXT TERR | 0.023 | 0.00 | 41.5 | | | | |
| 182.590 | D TIERRA | 6.620 | 4.43 | 905.6 | ADECUADO COR | 4.621 | 3.09 | 743.7 |
| | REV EXT TERR | 0.071 | 0.03 | 41.5 | | | | |
| 182.960 | D TIERRA | 0.024 | 1.23 | 906.9 | ADECUADO COR | 0.014 | 0.86 | 744.6 |
| | REV EXT TERR | 0.000 | 0.01 | 41.6 | | | | |

Istram 22.08.08.03 03/11/22 12:21:39 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN |
|---------------|---------|
| D TIERRA | 906.9 |
| REVEST DESMON | 3.6 |
| ADECUADO COR | 744.6 |
| REV EXT TERR | 41.6 |

Istram 22.08.08.03 03/11/22 12:21:39 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 317 : GIV-6228 - CARRIL BICI (F4-317.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|----------|-------------|--------------|--------------|-----------|-------------|--------------|--------------|
| 0.000 | VEGETAL | 1.791 | 0.00 | 0.0 | TERRAPLEN | 2.755 | 0.00 | 0.0 |
| 1.000 | VEGETAL | 1.796 | 1.79 | 1.8 | TERRAPLEN | 2.791 | 2.77 | 2.8 |
| 2.000 | VEGETAL | 1.800 | 1.80 | 3.6 | TERRAPLEN | 2.825 | 2.81 | 5.6 |
| 3.000 | VEGETAL | 1.804 | 1.80 | 5.4 | TERRAPLEN | 2.855 | 2.84 | 8.4 |
| 4.000 | VEGETAL | 1.807 | 1.81 | 7.2 | TERRAPLEN | 2.882 | 2.87 | 11.3 |
| 5.000 | VEGETAL | 1.807 | 1.81 | 9.0 | TERRAPLEN | 2.900 | 2.89 | 14.2 |
| 6.000 | VEGETAL | 1.804 | 1.81 | 10.8 | TERRAPLEN | 2.897 | 2.90 | 17.1 |
| 7.000 | VEGETAL | 1.801 | 1.80 | 12.6 | TERRAPLEN | 2.879 | 2.89 | 20.0 |
| 8.000 | VEGETAL | 1.797 | 1.80 | 14.4 | TERRAPLEN | 2.845 | 2.86 | 22.8 |
| 9.000 | VEGETAL | 1.793 | 1.80 | 16.2 | TERRAPLEN | 2.802 | 2.82 | 25.7 |
| 10.000 | VEGETAL | 1.790 | 1.79 | 18.0 | TERRAPLEN | 2.750 | 2.78 | 28.4 |
| 11.000 | VEGETAL | 1.782 | 1.79 | 19.8 | TERRAPLEN | 2.689 | 2.72 | 31.1 |
| 12.000 | VEGETAL | 1.774 | 1.78 | 21.6 | TERRAPLEN | 2.630 | 2.66 | 33.8 |
| 13.000 | VEGETAL | 1.766 | 1.77 | 23.3 | TERRAPLEN | 2.571 | 2.60 | 36.4 |
| 14.000 | VEGETAL | 1.759 | 1.76 | 25.1 | TERRAPLEN | 2.512 | 2.54 | 38.9 |
| 15.000 | VEGETAL | 1.751 | 1.75 | 26.9 | TERRAPLEN | 2.452 | 2.48 | 41.4 |
| 16.000 | VEGETAL | 1.743 | 1.75 | 28.6 | TERRAPLEN | 2.393 | 2.42 | 43.9 |
| 17.000 | VEGETAL | 1.736 | 1.74 | 30.3 | TERRAPLEN | 2.337 | 2.37 | 46.2 |
| 18.000 | VEGETAL | 1.729 | 1.73 | 32.1 | TERRAPLEN | 2.285 | 2.31 | 48.5 |
| 19.000 | VEGETAL | 1.722 | 1.73 | 33.8 | TERRAPLEN | 2.234 | 2.26 | 50.8 |
| 20.000 | VEGETAL | 1.716 | 1.72 | 35.5 | TERRAPLEN | 2.188 | 2.21 | 53.0 |
| 21.000 | VEGETAL | 1.710 | 1.71 | 37.2 | TERRAPLEN | 2.145 | 2.17 | 55.2 |
| 22.000 | VEGETAL | 1.704 | 1.71 | 38.9 | TERRAPLEN | 2.103 | 2.12 | 57.3 |
| 23.000 | VEGETAL | 1.699 | 1.70 | 40.6 | TERRAPLEN | 2.066 | 2.08 | 59.4 |
| 24.000 | VEGETAL | 1.695 | 1.70 | 42.3 | TERRAPLEN | 2.039 | 2.05 | 61.4 |
| 25.000 | VEGETAL | 1.692 | 1.69 | 44.0 | TERRAPLEN | 2.016 | 2.03 | 63.5 |
| 26.000 | VEGETAL | 1.688 | 1.69 | 45.7 | TERRAPLEN | 1.994 | 2.01 | 65.5 |
| 27.000 | VEGETAL | 1.685 | 1.69 | 47.4 | TERRAPLEN | 1.973 | 1.98 | 67.4 |
| 28.000 | VEGETAL | 1.683 | 1.68 | 49.1 | TERRAPLEN | 1.957 | 1.96 | 69.4 |
| 29.000 | VEGETAL | 1.681 | 1.68 | 50.8 | TERRAPLEN | 1.944 | 1.95 | 71.4 |
| 30.000 | VEGETAL | 1.680 | 1.68 | 52.5 | TERRAPLEN | 1.934 | 1.94 | 73.3 |
| 31.000 | VEGETAL | 1.679 | 1.68 | 54.1 | TERRAPLEN | 1.927 | 1.93 | 75.2 |
| 32.000 | VEGETAL | 1.679 | 1.68 | 55.8 | TERRAPLEN | 1.924 | 1.93 | 77.2 |
| 33.000 | VEGETAL | 1.679 | 1.68 | 57.5 | TERRAPLEN | 1.923 | 1.92 | 79.1 |
| 34.000 | VEGETAL | 1.679 | 1.68 | 59.2 | TERRAPLEN | 1.926 | 1.92 | 81.0 |
| 35.000 | VEGETAL | 1.680 | 1.68 | 60.8 | TERRAPLEN | 1.932 | 1.93 | 82.9 |
| 36.000 | VEGETAL | 1.681 | 1.68 | 62.5 | TERRAPLEN | 1.942 | 1.94 | 84.9 |
| 37.000 | VEGETAL | 1.683 | 1.68 | 64.2 | TERRAPLEN | 1.958 | 1.95 | 86.8 |
| 38.000 | VEGETAL | 1.686 | 1.68 | 65.9 | TERRAPLEN | 1.977 | 1.97 | 88.8 |
| 39.000 | VEGETAL | 1.689 | 1.69 | 67.6 | TERRAPLEN | 1.998 | 1.99 | 90.8 |
| 40.000 | VEGETAL | 1.692 | 1.69 | 69.3 | TERRAPLEN | 2.022 | 2.01 | 92.8 |
| 41.000 | VEGETAL | 1.696 | 1.69 | 71.0 | TERRAPLEN | 2.050 | 2.04 | 94.8 |
| 42.000 | VEGETAL | 1.700 | 1.70 | 72.7 | TERRAPLEN | 2.079 | 2.06 | 96.9 |
| 43.000 | VEGETAL | 1.704 | 1.70 | 74.4 | TERRAPLEN | 2.108 | 2.09 | 99.0 |
| 44.000 | VEGETAL | 1.708 | 1.71 | 76.1 | TERRAPLEN | 2.138 | 2.12 | 101.1 |
| 45.000 | VEGETAL | 1.714 | 1.71 | 77.8 | TERRAPLEN | 2.170 | 2.15 | 103.3 |
| 46.000 | VEGETAL | 1.720 | 1.72 | 79.5 | TERRAPLEN | 2.208 | 2.19 | 105.4 |
| 47.000 | VEGETAL | 1.726 | 1.72 | 81.2 | TERRAPLEN | 2.251 | 2.23 | 107.7 |
| 48.000 | VEGETAL | 1.732 | 1.73 | 83.0 | TERRAPLEN | 2.300 | 2.28 | 109.9 |
| 49.000 | VEGETAL | 1.739 | 1.74 | 84.7 | TERRAPLEN | 2.357 | 2.33 | 112.3 |
| 50.000 | VEGETAL | 1.747 | 1.74 | 86.4 | TERRAPLEN | 2.423 | 2.39 | 114.7 |
| 51.000 | VEGETAL | 1.756 | 1.75 | 88.2 | TERRAPLEN | 2.491 | 2.46 | 117.1 |
| 52.000 | VEGETAL | 1.768 | 1.76 | 89.9 | TERRAPLEN | 2.582 | 2.54 | 119.7 |
| 53.000 | VEGETAL | 1.776 | 1.77 | 91.7 | TERRAPLEN | 2.647 | 2.61 | 122.3 |
| 54.000 | VEGETAL | 1.784 | 1.78 | 93.5 | TERRAPLEN | 2.703 | 2.68 | 124.9 |
| 55.000 | VEGETAL | 1.793 | 1.79 | 95.3 | TERRAPLEN | 2.773 | 2.74 | 127.7 |
| 56.000 | VEGETAL | 1.802 | 1.80 | 97.1 | TERRAPLEN | 2.845 | 2.81 | 130.5 |
| 57.000 | VEGETAL | 1.812 | 1.81 | 98.9 | TERRAPLEN | 2.918 | 2.88 | 133.4 |
| 58.000 | VEGETAL | 1.821 | 1.82 | 100.7 | TERRAPLEN | 2.990 | 2.95 | 136.3 |
| 59.000 | VEGETAL | 1.830 | 1.83 | 102.5 | TERRAPLEN | 3.063 | 3.03 | 139.4 |
| 60.000 | VEGETAL | 1.834 | 1.83 | 104.4 | TERRAPLEN | 3.121 | 3.09 | 142.5 |
| 61.000 | VEGETAL | 1.838 | 1.84 | 106.2 | TERRAPLEN | 3.164 | 3.14 | 145.6 |
| 62.000 | VEGETAL | 1.842 | 1.84 | 108.0 | TERRAPLEN | 3.195 | 3.18 | 148.8 |
| 63.000 | VEGETAL | 1.843 | 1.84 | 109.9 | TERRAPLEN | 3.210 | 3.20 | 152.0 |
| 64.000 | VEGETAL | 1.849 | 1.85 | 111.7 | TERRAPLEN | 3.224 | 3.22 | 155.2 |
| 65.000 | VEGETAL | 1.849 | 1.85 | 113.6 | TERRAPLEN | 3.220 | 3.22 | 158.4 |
| 66.000 | VEGETAL | 1.848 | 1.85 | 115.4 | TERRAPLEN | 3.213 | 3.22 | 161.6 |
| 67.000 | VEGETAL | 1.847 | 1.85 | 117.3 | TERRAPLEN | 3.200 | 3.21 | 164.8 |
| 68.000 | VEGETAL | 1.846 | 1.85 | 119.1 | TERRAPLEN | 3.182 | 3.19 | 168.0 |
| 69.000 | VEGETAL | 1.843 | 1.84 | 121.0 | TERRAPLEN | 3.160 | 3.17 | 171.2 |
| 70.000 | VEGETAL | 1.840 | 1.84 | 122.8 | TERRAPLEN | 3.137 | 3.15 | 174.3 |
| 71.000 | VEGETAL | 1.837 | 1.84 | 124.6 | TERRAPLEN | 3.113 | 3.13 | 177.5 |
| 72.000 | VEGETAL | 1.834 | 1.84 | 126.5 | TERRAPLEN | 3.089 | 3.10 | 180.6 |
| 73.000 | VEGETAL | 1.831 | 1.83 | 128.3 | TERRAPLEN | 3.064 | 3.08 | 183.6 |
| 74.000 | VEGETAL | 1.827 | 1.83 | 130.1 | TERRAPLEN | 3.037 | 3.05 | 186.7 |
| 75.000 | VEGETAL | 1.823 | 1.83 | 132.0 | TERRAPLEN | 3.006 | 3.02 | 189.7 |

Istram 22.08.08.03 03/11/22 12:21:39 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 317 : GIV-6228 - CARRIL BICI (F4-317.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|----------|-------------|--------------|--------------|-----------|-------------|--------------|--------------|
| 76.000 | VEGETAL | 1.819 | 1.82 | 133.8 | TERRAPLEN | 2.973 | 2.99 | 192.7 |
| 77.000 | VEGETAL | 1.814 | 1.82 | 135.6 | TERRAPLEN | 2.938 | 2.96 | 195.7 |
| 78.000 | VEGETAL | 1.810 | 1.81 | 137.4 | TERRAPLEN | 2.904 | 2.92 | 198.6 |
| 79.000 | VEGETAL | 1.806 | 1.81 | 139.2 | TERRAPLEN | 2.869 | 2.89 | 201.5 |
| 80.000 | VEGETAL | 1.801 | 1.80 | 141.0 | TERRAPLEN | 2.834 | 2.85 | 204.3 |
| 81.000 | VEGETAL | 1.796 | 1.80 | 142.8 | TERRAPLEN | 2.798 | 2.82 | 207.1 |
| 82.000 | VEGETAL | 1.793 | 1.79 | 144.6 | TERRAPLEN | 2.770 | 2.78 | 209.9 |
| 83.000 | VEGETAL | 1.791 | 1.79 | 146.4 | TERRAPLEN | 2.755 | 2.76 | 212.7 |
| 84.000 | VEGETAL | 1.790 | 1.79 | 148.2 | TERRAPLEN | 2.750 | 2.75 | 215.4 |
| 84.817 | VEGETAL | 1.789 | 1.46 | 149.7 | TERRAPLEN | 2.745 | 2.24 | 217.7 |

Istram 22.08.08.03 03/11/22 12:21:39 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ED50 (HUSO 30)
 EJE : 317 : GIV-6228 - CARRIL BICI (F4-317.vol)

***** RESUMEN DE VOLUMENES TOTALES*****

| MATERIAL | VOLUMEN |
|-----------|---------|
| VEGETAL | 149.7 |
| TERRAPLEN | 217.7 |

| EJE | NOMBRE | SANEO | D TIERRA | REVEST DESMON | SUELO ADECUADO | SUELO EST 3 | VEGETAL | TERRAPLEN | TOT- U(Q100) | REV EXT TERR | EXC ESCALONADO | TERR ESCALONADO | RELLENO BERMA | DESBROCE |
|-----|----------------------------|----------|----------|------------------|-------------------|-------------|----------|-----------|-----------------|--------------|-------------------|--------------------|------------------|------------|
| | | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Superficie |
| | TRONCO | 13.797,6 | 66.319,5 | 6,7 | 122.434,5 | 71.253,9 | 31.104,9 | 456.681,6 | 61.535,2 | 20.489,2 | 34.895,8 | 34.896,3 | 9.399,1 | 290.670,99 |
| 1 | TRONCO N-II | 13.797,6 | 66.319,5 | 6,7 | 122.434,5 | 71.253,9 | 31.104,9 | 456.681,6 | 61.535,2 | 20.489,2 | 34.895,8 | 34.896,3 | 9399,1 | 290.670,99 |
| | E1-ENLACE C-31 | 0,0 | 3.439,6 | 13,2 | 4.967,7 | 2.806,9 | 1.479,6 | 18.165,7 | | 951,6 | 623,8 | 623,8 | 665,2 | 14.550,0 |
| 4 | E1 RAMAL 4 | 0,0 | 979,8 | 0,0 | 1.076,2 | 611,0 | 309,8 | 737,1 | | 112,8 | 52,0 | 52,0 | 145,4 | 2.727,49 |
| 5 | E1 RAMAL 3 | 0,0 | 501,1 | 2,4 | 1.015,5 | 577,4 | 0,4 | 1.149,8 | | 119,3 | 103,8 | 103,8 | 124,9 | 2.434,77 |
| 8 | E1 RAMAL 1 | 0,0 | 1.455,3 | 10,8 | 1.641,5 | 927,7 | 743,7 | 8.676,7 | | 355,1 | 234,3 | 234,3 | 227 | 5.311,14 |
| 81 | E1 RAMAL 2 | 0,0 | 503,4 | 0,0 | 1.234,5 | 690,8 | 425,7 | 7.602,1 | | 364,4 | 233,7 | 233,7 | 167,9 | 4.076,59 |
| | E2-ENLACE C-260 | 6.454,7 | 77.534,5 | 556,3 | 11.769,5 | 6.882,5 | 2.412,3 | 70.634,5 | | 1.819,4 | 2.488,3 | 2.488,3 | 1.023,6 | 74.804,4 |
| 10 | E2 GLORIETA (PI 5.8 Y 6.0) | 5.173,9 | 55.448,9 | 283,8 | 3.690,8 | 2.215,1 | 1.377,5 | 38.690,4 | | 0,0 | 627,8 | 627,8 | 1,5 | 46.518,86 |
| 11 | E2 VIAL 1 C-260 | 0,0 | 947,4 | 0,0 | 491,2 | 294,6 | 26,4 | 3,0 | | 10,5 | 0,0 | 0,0 | 5,8 | 1.027,44 |
| 12 | E2 VIAL 2 C-260 | 165,0 | 1.043,3 | 0,0 | 805,1 | 480,3 | 16,5 | 35,7 | | 14,2 | 6,9 | 6,9 | 63,2 | 1.611,50 |
| 13 | E2 RAMAL 3 | 774,5 | 8.878,6 | 70,1 | 1.301,0 | 750,1 | 416,9 | 2.959,0 | | 214,0 | 388,9 | 388,9 | 182,4 | 6.397,29 |
| 15 | E2 RAMAL 2 | 341,3 | 2.152,4 | 9,6 | 1.167,9 | 671,8 | 518,0 | 11.273,5 | | 282,8 | 472,0 | 472,0 | 155,2 | 3.975,85 |
| 16 | E2 RAMAL 4 | 0,0 | 7.094,0 | 144,1 | 2.724,7 | 1.552,8 | 57,0 | 12.096,2 | | 799,6 | 862,6 | 862,6 | 402,7 | 9.987,43 |
| 19 | E2 RAMAL 5 | 0,0 | 76,3 | 0,0 | 74,4 | 43,5 | 0,0 | 0,0 | | 4,5 | 0,0 | 0,0 | 9,4 | 174,21 |
| 21 | E2 RAMAL 1 | 0,0 | 1.893,6 | 48,7 | 1.514,4 | 874,3 | 0,0 | 5.576,7 | | 493,8 | 130,1 | 130,1 | 203,4 | 5.111,85 |
| | E3-ENLACE N-260 | 999,8 | 24.021,9 | 116,7 | 18.077,3 | 10.436,5 | 3.971,9 | 58.588,0 | | 2.762,7 | 1.141,6 | 1.141,6 | 2.093,7 | 47.776,3 |
| 22 | E3 GLORIETA 1 | 11,3 | 367,0 | 0,0 | 1.352,5 | 763,9 | 82,5 | 1.058,4 | | 140,9 | 37,3 | 37,3 | 149,4 | 3.059,92 |
| 24 | E3 RAMAL 4 | 138,8 | 1.947,2 | 5,9 | 989,6 | 573,3 | 122,7 | 1.328,0 | | 164,9 | 281,0 | 281,0 | 110,4 | 3.043,27 |
| 25 | E3 RAMAL 3 | 0,0 | 2.139,3 | 14,1 | 969,3 | 551,0 | 240,8 | 1.201,3 | | 257,0 | 329,8 | 329,8 | 91,4 | 3.609,44 |
| 26 | E3 VIAL 2 N-260 | 2,9 | 965,3 | 0,0 | 518,9 | 306,5 | 16,4 | 6,6 | | 15,3 | 2,6 | 2,6 | 49,5 | 1.120,93 |
| 27 | E3 VIAL 1 N-260 (PI 7.0) | 7,1 | 7.014,8 | 62,2 | 2.020,9 | 1.210,7 | 2,4 | 3,5 | | 20,1 | 1,8 | 1,8 | 230,5 | 4.043,15 |
| 28 | E3 GLORIETA 2 | 820,7 | 759,8 | 3,5 | 1.447,0 | 836,3 | 92,9 | 1.533,3 | | 112,9 | 35,9 | 35,9 | 198,7 | 3.216,76 |
| 29 | E3 VIAL 4 | 19,0 | 2.372,6 | 12,9 | 2.574,5 | 1.486,2 | 527,3 | 3.048,2 | | 292,7 | 97,7 | 97,7 | 262,4 | 6.192,24 |
| 32 | E3 RAMAL 5 | 0,0 | 0,0 | 0,0 | 441,7 | 251,9 | 77,4 | 814,1 | | 47,0 | 7,0 | 7,0 | 41,3 | 984,46 |
| 34 | E3 VIAL 5 | 0,0 | 2.631,8 | 4,4 | 2.117,5 | 1.233,4 | 0,0 | 504,5 | | 114,3 | 9,6 | 9,6 | 240,2 | 4.766,37 |
| 39 | E3 VIAL 3 N-260 | 0,0 | 5.793,6 | 13,7 | 2.540,5 | 1.494,1 | 0,2 | 581,0 | | 125,3 | 161,4 | 161,4 | 305,5 | 5.881,01 |
| 43 | E3 RAMAL 2 | 0,0 | 0,0 | 0,0 | 1.691,3 | 939,0 | 1.568,2 | 27.586,7 | | 839,8 | 29,9 | 29,9 | 228,2 | 6.375,34 |
| 44 | E3 RAMAL 1 | 0,0 | 30,5 | 0,0 | 1.413,6 | 790,2 | 1.241,1 | 20.922,4 | | 632,5 | 147,6 | 147,6 | 186,2 | 5.483,41 |
| | CAMINOS | 4.281,7 | 26.084,9 | 514,0 | 15.353,8 | 0,0 | 11.747,5 | 5.332,2 | | 1.323,7 | 266,2 | 266,2 | 165,2 | 81.979,6 |
| 47 | CE 1.1 CD | 76,9 | 736,4 | 8,7 | 597,5 | 0,0 | 591,3 | 54,0 | | 32,1 | 6,2 | 6,2 | 1,4 | 2.467,43 |
| 49 | CE 2.4 CD | 0,0 | 214,8 | 10,7 | 84,4 | 0,0 | 73,4 | 3,0 | | 0,0 | 0,0 | 0,0 | 0,0 | 406,01 |
| 52 | CE 3.5 CD | 591,7 | 1.379,2 | 3,7 | 2.376,3 | 0,0 | 2.486,0 | 345,0 | | 263,3 | 9,7 | 9,7 | 0,0 | 11.771,78 |
| 53 | CE 4.8 CD | 0,0 | 867,8 | 0,3 | 747,0 | 0,0 | 1.007,5 | 164,1 | | 57,1 | 0,5 | 0,5 | 0,0 | 4.089,73 |
| 54 | CE 5.4 CD | 3.484,5 | 188,4 | 45,6 | 484,8 | 0,0 | 5,4 | 2.931,3 | | 74,5 | 131,5 | 131,5 | 0,0 | 2.189,05 |
| 55 | CE 5.4 CI | 0,0 | 1.069,1 | 31,0 | 370,3 | 0,0 | 0,0 | 0,0 | | 15,0 | 0,0 | 0,0 | 0,0 | 1.519,55 |
| 56 | CE 6.2 CI | 0,0 | 708,0 | 14,9 | 711,0 | 0,0 | 1.047,1 | 237,4 | | 45,9 | 12,5 | 12,5 | 0,0 | 3.506,62 |
| 57 | CE 7.4 CD | 0,0 | 1.406,4 | 5,3 | 1.165,5 | 0,0 | 1.486,0 | 189,7 | | 93,4 | 0,9 | 0,9 | 0,0 | 6.260,27 |
| 58 | C ACCESO (PI 3.7) | 61,4 | 282,6 | 0,0 | 92,3 | 0,0 | 54,6 | 2,0 | | 1,4 | 0,0 | 0,0 | 0,0 | 389,76 |
| 59 | C ACCESO (PI 4.5) | 0,0 | 37,5 | 0,0 | 51,7 | 0,0 | 57,0 | 3,8 | | 0,0 | 0,0 | 0,0 | 0,0 | 196,90 |

| EJE | NOMBRE | SANEO | D TIERRA | REVEST DESMON | SUELO ADECUADO | SUELO EST 3 | VEGETAL | TERRAPLEN | TOT- U(Q100) | REV EXT TERR | EXC ESCALONADO | TERR ESCALONADO | RELLENO BERMA | DESBROCE |
|-----|------------------------------------|-----------------|------------------|------------------|-------------------|-----------------|-----------------|------------------|-----------------|-----------------|-------------------|--------------------|------------------|------------------|
| | | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Volumen | Superficie |
| 60 | PI 7.6 (Camino) | 0,0 | 370,0 | 0,0 | 94,2 | 0,0 | 105,7 | 1,9 | | 0,0 | 0,0 | 0,0 | 0,0 | 358,27 |
| 61 | CE 6.2 CD | 67,2 | 114,4 | 1,2 | 221,7 | 0,0 | 173,0 | 17,5 | | 18,5 | 3,9 | 3,9 | 0,0 | 776,77 |
| 62 | CE 7.4 CI | 0,0 | 2.656,6 | 10,8 | 1.161,5 | 0,0 | 0,0 | 8,7 | | 117,7 | 3,4 | 3,4 | 0,0 | 6.729,02 |
| 63 | CE 8.1 CI | 0,0 | 1.570,7 | 105,0 | 970,0 | 0,0 | 791,4 | 282,7 | | 91,9 | 20,9 | 20,9 | 0,0 | 5.974,28 |
| 96 | CE 6.8 CD | 0,0 | 27,4 | 0,0 | 43,8 | 0,0 | 0,0 | 45,8 | | 13,1 | 9,2 | 9,2 | 0,0 | 179,08 |
| 144 | CE 7.4 CI-CD (PI 7.4) | 0,0 | 973,6 | 0,0 | 230,7 | 0,0 | 0,0 | 0,2 | | 0,0 | 0,0 | 0,0 | 0,0 | 740,58 |
| 146 | CONNEXION CON AVDA. DE L'EMPORDÀ 1 | 0,0 | 1.985,9 | 16,9 | 1.089,1 | 0,0 | 0,0 | 168,9 | | 57,6 | 15,2 | 15,2 | 163,8 | 3.812,97 |
| 147 | CE 1.1 CI | 0,0 | 1.801,9 | 63,5 | 675,2 | 0,0 | 702,0 | 99,2 | | 31,1 | 2,1 | 2,1 | 0,0 | 3.598,42 |
| 154 | CE 2.5 CI | 0,0 | 9.694,2 | 196,4 | 4.186,8 | 0,0 | 3.167,1 | 777,0 | | 411,1 | 50,2 | 50,2 | 0,0 | 27.013,16 |
| | CAMINOS PAVIMENTADOS | 671,6 | 9.088,2 | 33,8 | 6.012,5 | 2.188,3 | 822,2 | 1.214,7 | | 206,7 | 80,2 | 80,2 | 328,7 | 12.410,0 |
| 45 | CAMINO MD_04 | 0,0 | 153,3 | 0,6 | 123,8 | 0,0 | 68,4 | 6,6 | | 1,1 | 0,0 | 0,0 | 5,6 | 273,65 |
| 50 | CE 2.5 CD (PI 2.4) | 205,6 | 765,3 | 13,7 | 665,5 | 0,0 | 265,3 | 56,7 | | 9,1 | 10,6 | 10,6 | 58,2 | 1.256,78 |
| 51 | REPOSICION GI-8593 | 0,0 | 1.750,4 | 0,0 | 1.183,5 | 705,1 | 365,4 | 0,2 | | 47,5 | 0,0 | 0,0 | 72,2 | 2.381,36 |
| 77 | PI 6.2 (Camino) | 0,0 | 469,4 | 0,0 | 207,8 | 124,7 | 0,0 | 0,0 | | 0,0 | 0,0 | 0,0 | 58,2 | 426,63 |
| 78 | PI 8.1 (C-252) | 0,0 | 2.002,2 | 0,0 | 565,9 | 324,4 | 0,0 | 0,0 | | 0,0 | 0,0 | 0,0 | 0,1 | 1.240,63 |
| 141 | PI 4.8 (GIV-6221) | 0,0 | 619,9 | 0,0 | 323,3 | 186,3 | 0,0 | 0,0 | | 0,0 | 0,0 | 0,0 | 17,2 | 673,58 |
| 159 | ENLACE FIGUERES R7 | 466,0 | 1.240,3 | 2,5 | 1.212,1 | 702,9 | 123,1 | 254,5 | | 34,7 | 27,4 | 27,4 | 57,2 | 2.536,34 |
| 160 | AVDA. DE L'EMPORDÀ (PI 0.4) | 0,0 | 669,1 | 0,0 | 722,5 | 144,9 | 0,0 | 896,7 | | 68,3 | 42,2 | 42,2 | 7,5 | 1.529,19 |
| 226 | CAMINO DE ENLACE E2 | 0,0 | 511,4 | 13,4 | 263,5 | 0,0 | 0,0 | 0,0 | | 4,4 | 0,0 | 0,0 | 32,7 | 718,66 |
| 314 | CONNEXION CON AVDA. DE L'EMPORDÀ 2 | 0,0 | 906,9 | 3,6 | 744,6 | 0,0 | 0,0 | 0,0 | | 41,6 | 0,0 | 0,0 | 19,8 | 1.373,17 |
| | FASE IV - EXTREMOS | 0,0 | 3.678,8 | 0,0 | 2.394,5 | 1.391,3 | 256,6 | 42,3 | | 304,0 | 33,6 | 33,6 | 383,9 | 3.613,1 |
| 228 | INICIO CALZ. IZQ | 0,0 | 1.153,8 | 0,0 | 1.178,1 | 691,3 | 163,8 | 42,3 | | 109,1 | 33,6 | 33,6 | 155,3 | 2.367,84 |
| 229 | FINAL CALZ. IZQ | 0,0 | 2.525,0 | 0,0 | 1.216,4 | 700,0 | 92,8 | 0,0 | | 194,9 | 0,0 | 0,0 | 228,6 | 1.245,26 |
| | ZONAS INTERIORES | 0,0 | 19.827,7 | 0,0 | 0,0 | 0,0 | 1.199,3 | 11.558,4 | | 0,0 | 0,0 | 0,0 | 0,0 | 13.205,4 |
| 238 | ZONA INTERIOR 1 | 0,0 | 1,4 | 0,0 | 0,0 | 0,0 | 0,0 | 2.340,0 | | 0,0 | 0,0 | 0,0 | 0,0 | 2.555,67 |
| 239 | LINEA | 0,0 | 10.735,2 | 0,0 | 0,0 | 0,0 | 1.161,2 | 0,0 | | 0,0 | 0,0 | 0,0 | 0,0 | 1.917,01 |
| 241 | ZONA INTERIOR 2.3 | 0,0 | 9.091,1 | 0,0 | 0,0 | 0,0 | 38,1 | 24,0 | | 0,0 | 0,0 | 0,0 | 0,0 | 2.870,91 |
| 242 | ZONA INTERIOR 3.1 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 8.716,0 | | 0,0 | 0,0 | 0,0 | 0,0 | 4.352,18 |
| 243 | ZONA INTERIOR 3.1 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 478,4 | | 0,0 | 0,0 | 0,0 | 0,0 | 1.509,61 |
| | MIGJORN | 0,0 | 2.568,3 | 0,0 | 2.400,5 | 2.081,3 | 149,7 | 1.500,7 | | 153,8 | 52,9 | 52,9 | 178,7 | 7.596,8 |
| 210 | GLORIETA GIV-6228 | 0,0 | 2,2 | 0,0 | 0,0 | 278,2 | 0,0 | 1.147,8 | | 6,5 | 48,7 | 48,7 | 1,5 | 1.205,83 |
| 211 | GIV-6228 - NORTE | 0,0 | 35,9 | 0,0 | 0,0 | 183,0 | 0,0 | 74,9 | | 11,0 | 0,0 | 0,0 | 8,7 | 455,01 |
| 212 | CALLE MIGJORN | 0,0 | 2.501,7 | 0,0 | 2.400,5 | 1.442,7 | 0,0 | 28,5 | | 124,1 | 4,2 | 4,2 | 160,2 | 4.995,95 |
| 283 | GIV-6228 - SUR | 0,0 | 28,5 | 0,0 | 0,0 | 177,4 | 0,0 | 31,8 | | 12,2 | 0,0 | 0,0 | 8,3 | 441,10 |
| 317 | GIV-6228 - CARRIL BICI | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 149,7 | 217,7 | | 0,0 | 0,0 | 0,0 | 0,0 | 498,89 |
| | TOTAL | 26.205,4 | 232.563,4 | 1.240,7 | 183.410,3 | 97.040,7 | 53.144,0 | 623.718,1 | 61.535,2 | 28.011,1 | 39.582,4 | 39.582,9 | 14.238,1 | 546.606,6 |

2. FIRMES

Istram 22.11.11.15 21/11/22 10:31:51 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.11.11.15 21/11/22 10:31:51 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| | | | | | | | | |
| 423.352 | Suelocemento | 3.318 | 0.00 | 0.0 | AC32bas35/50G 2 | 1.554 | 0.00 | 0.0 |
| | AC22bin35/50S | 0.906 | 0.00 | 0.0 | PA11 45/80-65C | 0.592 | 0.00 | 0.0 |
| | SC (Arc) | 2.977 | 0.00 | 0.0 | AC22bin35/50(a) | 0.621 | 0.00 | 0.0 |
| | PA1145/80-65(a) | 0.419 | 0.00 | 0.0 | C31 | 1.549 | 0.00 | 0.0 |
| 440.000 | Suelocemento | 3.318 | 55.23 | 55.2 | AC32bas35/50G 2 | 1.554 | 25.87 | 25.9 |
| | AC22bin35/50S | 0.906 | 15.09 | 15.1 | PA11 45/80-65C | 0.592 | 9.85 | 9.8 |
| | SC (Arc) | 2.977 | 49.56 | 49.6 | AC22bin35/50(a) | 0.621 | 10.34 | 10.3 |
| | PA1145/80-65(a) | 0.418 | 6.99 | 7.0 | C31 | 1.551 | 25.79 | 25.8 |
| 460.000 | Suelocemento | 3.318 | 66.37 | 121.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 57.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 33.2 | PA11 45/80-65C | 0.592 | 11.83 | 21.7 |
| | SC (Arc) | 2.813 | 59.56 | 109.1 | AC22bin35/50(a) | 0.606 | 12.42 | 22.8 |
| | PA1145/80-65(a) | 0.414 | 8.36 | 15.3 | C31 | 0.202 | 26.22 | 52.0 |
| 480.000 | Suelocemento | 3.318 | 42.17 | 163.8 | AC32bas35/50G 2 | 1.554 | 19.74 | 76.7 |
| | AC22bin35/50S | 0.906 | 11.51 | 44.7 | PA11 45/80-65C | 0.592 | 7.51 | 29.2 |
| | SC (Arc) | 2.977 | 38.93 | 148.0 | AC22bin35/50(a) | 0.621 | 8.10 | 30.9 |
| | PA1145/80-65(a) | 0.418 | 5.59 | 20.9 | C31 | 1.550 | 11.14 | 63.1 |
| 500.000 | Suelocemento | 3.318 | 66.36 | 230.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 107.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 62.8 | PA11 45/80-65C | 0.592 | 11.83 | 41.0 |
| | SC (Arc) | 2.977 | 59.55 | 207.6 | AC22bin35/50(a) | 0.621 | 12.42 | 43.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 29.3 | C31 | 1.844 | 36.50 | 99.6 |
| 520.000 | Suelocemento | 3.318 | 66.36 | 296.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 138.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 81.0 | PA11 45/80-65C | 0.592 | 11.83 | 52.9 |
| | SC (Arc) | 2.977 | 59.54 | 267.1 | AC22bin35/50(a) | 0.621 | 12.42 | 55.7 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 37.7 | C31 | 1.843 | 36.87 | 136.5 |
| 540.000 | Suelocemento | 3.318 | 66.36 | 362.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 169.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 99.1 | PA11 45/80-65C | 0.592 | 11.83 | 64.7 |
| | SC (Arc) | 2.977 | 59.54 | 326.7 | AC22bin35/50(a) | 0.621 | 12.42 | 68.1 |
| | PA1145/80-65(a) | 0.418 | 8.38 | 46.1 | C31 | 1.845 | 36.87 | 173.4 |
| 560.000 | Suelocemento | 3.318 | 66.36 | 429.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 201.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 117.2 | PA11 45/80-65C | 0.592 | 11.83 | 76.5 |
| | SC (Arc) | 2.977 | 59.54 | 386.2 | AC22bin35/50(a) | 0.621 | 12.42 | 80.6 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 54.4 | C31 | 1.843 | 36.87 | 210.3 |
| 580.000 | Suelocemento | 3.318 | 66.36 | 495.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 232.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 135.3 | PA11 45/80-65C | 0.592 | 11.83 | 88.4 |
| | SC (Arc) | 2.977 | 59.54 | 445.8 | AC22bin35/50(a) | 0.621 | 12.42 | 93.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 62.8 | C31 | 1.844 | 36.87 | 247.1 |
| 600.000 | Suelocemento | 3.318 | 66.36 | 561.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 263.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 153.5 | PA11 45/80-65C | 0.592 | 11.83 | 100.2 |
| | SC (Arc) | 2.977 | 59.54 | 505.3 | AC22bin35/50(a) | 0.621 | 12.42 | 105.4 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 71.2 | C31 | 1.843 | 36.87 | 284.0 |
| 620.000 | Suelocemento | 3.318 | 66.36 | 628.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 294.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 171.6 | PA11 45/80-65C | 0.592 | 11.83 | 112.0 |
| | SC (Arc) | 2.977 | 59.54 | 564.9 | AC22bin35/50(a) | 0.621 | 12.42 | 117.8 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 79.6 | C31 | 1.843 | 36.87 | 320.9 |
| 640.000 | Suelocemento | 3.318 | 66.36 | 694.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 325.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 189.7 | PA11 45/80-65C | 0.592 | 11.83 | 123.8 |
| | SC (Arc) | 2.977 | 59.54 | 624.4 | AC22bin35/50(a) | 0.621 | 12.42 | 130.2 |
| | PA1145/80-65(a) | 0.420 | 8.38 | 87.9 | C31 | 1.843 | 36.87 | 357.8 |
| 660.000 | Suelocemento | 3.318 | 66.36 | 761.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 356.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 207.8 | PA11 45/80-65C | 0.592 | 11.83 | 135.7 |
| | SC (Arc) | 2.977 | 59.54 | 683.9 | AC22bin35/50(a) | 0.621 | 12.42 | 142.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 96.3 | C31 | 1.843 | 36.87 | 394.6 |
| 680.000 | Suelocemento | 3.318 | 66.36 | 827.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 387.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 225.9 | PA11 45/80-65C | 0.592 | 11.83 | 147.5 |
| | SC (Arc) | 2.976 | 59.52 | 743.5 | AC22bin35/50(a) | 0.621 | 12.42 | 155.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 104.7 | C31 | 1.843 | 36.87 | 431.5 |
| 700.000 | Suelocemento | 3.318 | 66.36 | 893.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 418.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 244.1 | PA11 45/80-65C | 0.592 | 11.83 | 159.3 |
| | SC (Arc) | 2.974 | 59.50 | 803.0 | AC22bin35/50(a) | 0.621 | 12.43 | 167.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 113.1 | C31 | 1.970 | 38.37 | 469.9 |
| 720.000 | Suelocemento | 3.318 | 66.36 | 960.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 449.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 262.2 | PA11 45/80-65C | 0.592 | 11.83 | 171.2 |
| | SC (Arc) | 2.973 | 59.48 | 862.5 | AC22bin35/50(a) | 0.621 | 12.42 | 179.9 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 121.4 | C31 | 1.843 | 37.18 | 507.0 |
| 740.000 | Suelocemento | 3.318 | 66.36 | 1026.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 480.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 280.3 | PA11 45/80-65C | 0.592 | 11.83 | 183.0 |
| | SC (Arc) | 2.973 | 59.47 | 921.9 | AC22bin35/50(a) | 0.621 | 12.42 | 192.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 129.8 | C31 | 1.843 | 36.87 | 543.9 |
| 760.000 | Suelocemento | 3.318 | 66.36 | 1092.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 511.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 298.4 | PA11 45/80-65C | 0.592 | 11.83 | 194.8 |
| | SC (Arc) | 2.972 | 59.45 | 981.4 | AC22bin35/50(a) | 0.621 | 12.43 | 204.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 138.2 | C31 | 1.843 | 36.87 | 580.8 |
| 780.000 | Suelocemento | 3.318 | 66.36 | 1159.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 542.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 316.6 | PA11 45/80-65C | 0.592 | 11.83 | 206.7 |
| | SC (Arc) | 2.971 | 59.43 | 1040.8 | AC22bin35/50(a) | 0.621 | 12.42 | 217.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 146.5 | C31 | 1.844 | 36.87 | 617.6 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 800.000 | Suelocemento | 3.318 | 66.36 | 1225.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 574.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 334.7 | PA11 45/80-65C | 0.592 | 11.83 | 218.5 |
| | SC (Arc) | 2.970 | 59.41 | 1100.2 | AC22bin35/50(a) | 0.621 | 12.43 | 229.6 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 154.9 | C31 | 1.844 | 36.80 | 654.4 |
| 820.000 | Suelocemento | 3.318 | 66.36 | 1291.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 605.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 352.8 | PA11 45/80-65C | 0.592 | 11.83 | 230.3 |
| | SC (Arc) | 2.969 | 59.39 | 1159.6 | AC22bin35/50(a) | 0.621 | 12.43 | 242.1 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 163.3 | C31 | 1.843 | 36.87 | 691.3 |
| 840.000 | Suelocemento | 3.318 | 66.36 | 1358.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 636.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 370.9 | PA11 45/80-65C | 0.592 | 11.83 | 242.2 |
| | SC (Arc) | 2.968 | 59.37 | 1219.0 | AC22bin35/50(a) | 0.621 | 12.42 | 254.5 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 171.7 | C31 | 1.843 | 36.86 | 728.2 |
| 860.000 | Suelocemento | 3.318 | 66.36 | 1424.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 667.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 389.0 | PA11 45/80-65C | 0.592 | 11.83 | 254.0 |
| | SC (Arc) | 2.967 | 59.35 | 1278.3 | AC22bin35/50(a) | 0.621 | 12.43 | 266.9 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 180.0 | C31 | 1.844 | 36.86 | 765.0 |
| 880.000 | Suelocemento | 3.318 | 66.36 | 1491.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 698.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 407.2 | PA11 45/80-65C | 0.592 | 11.83 | 265.8 |
| | SC (Arc) | 2.966 | 59.33 | 1337.6 | AC22bin35/50(a) | 0.621 | 12.43 | 279.4 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 188.4 | C31 | 1.843 | 36.86 | 801.9 |
| 900.000 | Suelocemento | 3.318 | 66.36 | 1557.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 729.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 425.3 | PA11 45/80-65C | 0.592 | 11.83 | 277.7 |
| | SC (Arc) | 2.965 | 59.31 | 1397.0 | AC22bin35/50(a) | 0.621 | 12.42 | 291.8 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 196.8 | C31 | 2.095 | 38.75 | 840.7 |
| 920.000 | Suelocemento | 3.318 | 66.36 | 1623.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 760.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 443.4 | PA11 45/80-65C | 0.591 | 11.83 | 289.5 |
| | SC (Arc) | 2.965 | 59.30 | 1456.3 | AC22bin35/50(a) | 0.621 | 12.43 | 304.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 205.2 | C31 | 1.843 | 38.75 | 879.4 |
| 940.000 | Suelocemento | 3.318 | 66.36 | 1690.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 791.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 461.5 | PA11 45/80-65C | 0.592 | 11.83 | 301.3 |
| | SC (Arc) | 2.965 | 59.30 | 1515.6 | AC22bin35/50(a) | 0.621 | | |

Istram 22.11.11.15 21/11/22 10:31:51 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.11.11.15 21/11/22 10:31:51 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 1180.000 | Suelocemento | 3.318 | 58.72 | 2492.0 | AC32bas35/50G 2 | 1.554 | 27.51 | 1171.9 |
| | AC22bin35/50S | 0.906 | 16.04 | 663.9 | PA11 45/80-65C | 0.591 | 10.47 | 433.5 |
| | SC (Arc) | 2.965 | 51.69 | 2082.4 | AC22bin35/50(a) | 0.621 | 10.83 | 455.2 |
| | PA1145/80-65(a) | 0.418 | 7.30 | 306.8 | C31 | 1.549 | 20.03 | 1305.8 |
| 1200.000 | Suelocemento | 3.318 | 66.36 | 2558.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 1203.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 682.1 | PA11 45/80-65C | 0.592 | 11.83 | 445.3 |
| | SC (Arc) | 2.965 | 59.30 | 2141.7 | AC22bin35/50(a) | 0.621 | 12.43 | 467.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 315.2 | C31 | 1.675 | 32.56 | 1338.4 |
| 1220.000 | Suelocemento | 3.318 | 66.36 | 2624.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 1234.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 700.2 | PA11 45/80-65C | 0.592 | 11.83 | 457.1 |
| | SC (Arc) | 2.965 | 59.30 | 2201.0 | AC22bin35/50(a) | 0.621 | 12.43 | 480.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 323.6 | C31 | 1.549 | 31.30 | 1369.7 |
| 1240.000 | Suelocemento | 3.318 | 66.36 | 2691.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 1265.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 718.3 | PA11 45/80-65C | 0.591 | 11.83 | 468.9 |
| | SC (Arc) | 2.965 | 59.30 | 2260.3 | AC22bin35/50(a) | 0.621 | 12.43 | 492.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 331.9 | C31 | 1.549 | 30.98 | 1400.7 |
| 1260.000 | Suelocemento | 3.318 | 66.36 | 2757.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 1296.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 736.4 | PA11 45/80-65C | 0.592 | 11.83 | 480.8 |
| | SC (Arc) | 2.965 | 59.30 | 2319.6 | AC22bin35/50(a) | 0.621 | 12.43 | 504.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 340.3 | C31 | 1.549 | 30.98 | 1431.6 |
| 1280.000 | Suelocemento | 3.318 | 66.36 | 2823.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 1327.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 754.6 | PA11 45/80-65C | 0.592 | 11.83 | 492.6 |
| | SC (Arc) | 2.967 | 59.32 | 2378.9 | AC22bin35/50(a) | 0.621 | 12.43 | 517.3 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 348.7 | C31 | 1.255 | 28.05 | 1459.7 |
| 1300.000 | Suelocemento | 3.318 | 66.36 | 2890.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 1358.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 772.7 | PA11 45/80-65C | 0.592 | 11.83 | 504.4 |
| | SC (Arc) | 2.969 | 59.36 | 2438.2 | AC22bin35/50(a) | 0.621 | 12.43 | 529.7 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 357.1 | C31 | 1.255 | 25.11 | 1484.8 |
| 1320.000 | Suelocemento | 3.318 | 66.36 | 2956.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 1389.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 790.8 | PA11 45/80-65C | 0.592 | 11.83 | 516.3 |
| | SC (Arc) | 2.972 | 59.41 | 2497.6 | AC22bin35/50(a) | 0.621 | 12.42 | 542.1 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 365.4 | C31 | 1.255 | 25.10 | 1509.9 |
| 1340.000 | Suelocemento | 3.318 | 66.36 | 3022.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 1420.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 808.9 | PA11 45/80-65C | 0.592 | 11.83 | 528.1 |
| | SC (Arc) | 2.974 | 59.45 | 2557.1 | AC22bin35/50(a) | 0.621 | 12.43 | 554.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 373.8 | C31 | 1.549 | 28.05 | 1538.0 |
| 1360.000 | Suelocemento | 3.318 | 66.36 | 3089.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 1451.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 827.0 | PA11 45/80-65C | 0.592 | 11.83 | 539.9 |
| | SC (Arc) | 2.976 | 59.51 | 2616.6 | AC22bin35/50(a) | 0.621 | 12.42 | 567.0 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 382.2 | C31 | 1.549 | 30.99 | 1568.9 |
| 1380.000 | Suelocemento | 3.318 | 66.36 | 3155.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 1482.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 845.2 | PA11 45/80-65C | 0.592 | 11.83 | 551.8 |
| | SC (Arc) | 2.979 | 59.55 | 2676.2 | AC22bin35/50(a) | 0.621 | 12.42 | 579.4 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 390.6 | C31 | 1.549 | 30.98 | 1599.9 |
| 1400.000 | Suelocemento | 3.318 | 66.36 | 3222.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 1513.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 863.3 | PA11 45/80-65C | 0.592 | 11.83 | 563.6 |
| | SC (Arc) | 2.981 | 59.60 | 2735.8 | AC22bin35/50(a) | 0.621 | 12.42 | 591.8 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 398.9 | C31 | 1.549 | 30.98 | 1630.9 |
| 1420.000 | Suelocemento | 3.318 | 66.36 | 3288.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 1544.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 881.4 | PA11 45/80-65C | 0.592 | 11.83 | 575.4 |
| | SC (Arc) | 2.983 | 59.64 | 2795.4 | AC22bin35/50(a) | 0.622 | 12.42 | 604.3 |
| | PA1145/80-65(a) | 0.420 | 8.38 | 407.3 | C31 | 1.549 | 30.98 | 1661.9 |
| 1440.000 | Suelocemento | 3.319 | 66.36 | 3354.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 1576.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 899.5 | PA11 45/80-65C | 0.592 | 11.83 | 587.3 |
| | SC (Arc) | 2.986 | 59.69 | 2855.1 | AC22bin35/50(a) | 0.621 | 12.43 | 616.7 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 415.7 | C31 | 1.549 | 30.98 | 1692.9 |
| 1460.000 | Suelocemento | 3.318 | 66.37 | 3421.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 1607.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 917.7 | PA11 45/80-65C | 0.592 | 11.84 | 599.1 |
| | SC (Arc) | 2.988 | 59.75 | 2914.8 | AC22bin35/50(a) | 0.621 | 12.42 | 629.1 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 424.1 | C31 | 1.550 | 30.99 | 1723.9 |
| 1480.000 | Suelocemento | 3.318 | 66.36 | 3487.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 1638.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 935.8 | PA11 45/80-65C | 0.592 | 11.84 | 610.9 |
| | SC (Arc) | 2.944 | 59.56 | 2974.4 | AC22bin35/50(a) | 0.621 | 12.42 | 641.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 432.5 | C31 | 0.647 | 26.31 | 1750.2 |
| 1500.000 | Suelocemento | 3.318 | 66.37 | 3553.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 1669.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 953.9 | PA11 45/80-65C | 0.592 | 11.84 | 622.8 |
| | SC (Arc) | 2.993 | 58.83 | 3033.2 | AC22bin35/50(a) | 0.621 | 12.42 | 653.9 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 440.8 | C31 | 1.033 | 15.32 | 1765.5 |
| 1520.000 | Suelocemento | 3.319 | 66.36 | 3620.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 1700.3 |
| | AC22bin35/50S | 0.906 | 18.13 | 972.0 | PA11 45/80-65C | 0.592 | 11.83 | 634.6 |
| | SC (Arc) | 2.993 | 59.86 | 3093.1 | AC22bin35/50(a) | 0.621 | 12.42 | 666.4 |
| | PA1145/80-65(a) | 0.418 | 8.38 | 449.2 | C31 | 1.034 | 20.67 | 1786.2 |
| 1540.000 | Suelocemento | 3.318 | 66.36 | 3686.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 1731.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 990.1 | PA11 45/80-65C | 0.592 | 11.84 | 646.4 |
| | SC (Arc) | 2.993 | 59.85 | 3152.9 | AC22bin35/50(a) | 0.621 | 12.42 | 678.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 457.6 | C31 | 0.783 | 19.41 | 1805.6 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 1560.000 | Suelocemento | 3.318 | 66.36 | 3752.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 1762.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 1008.3 | PA11 45/80-65C | 0.592 | 11.84 | 658.3 |
| | SC (Arc) | 2.991 | 59.80 | 3212.7 | AC22bin35/50(a) | 0.621 | 12.42 | 691.2 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 466.0 | C31 | 0.914 | 21.35 | 1826.9 |
| 1580.000 | Suelocemento | 3.318 | 10.29 | 3763.2 | AC32bas35/50G 2 | 1.554 | 4.82 | 1767.3 |
| | AC22bin35/50S | 0.906 | 2.81 | 1011.1 | PA11 45/80-65C | 0.592 | 1.83 | 660.1 |
| | SC (Arc) | 2.991 | 9.27 | 3222.0 | AC22bin35/50(a) | 0.621 | 1.93 | 693.1 |
| | PA1145/80-65(a) | 0.418 | 1.30 | 467.3 | C31 | 0.793 | 2.64 | 1829.6 |
| 1600.000 | Suelocemento | 3.463 | 67.79 | 3831.0 | AC32bas35/50G 2 | 1.626 | 31.79 | 1799.1 |
| | AC22bin35/50S | 0.950 | 18.55 | 1029.6 | PA11 45/80-65C | 0.621 | 12.12 | 672.2 |
| | SC (Arc) | 2.992 | 59.83 | 3281.8 | AC22bin35/50(a) | 0.621 | 12.42 | 705.6 |
| | PA1145/80-65(a) | 0.418 | 8.38 | 475.6 | C31 | 1.550 | 21.88 | 1851.5 |
| 1620.000 | Suelocemento | 3.610 | 70.72 | 3901.7 | AC32bas35/50G 2 | 1.700 | 33.27 | 1832.3 |
| | AC22bin35/50S | 0.994 | 19.43 | 1049.0 | PA11 45/80-65C | 0.650 | 12.71 | 684.9 |
| | SC (Arc) | 2.998 | 59.88 | 3341.7 | AC22bin35/50(a) | 0.621 | 12.42 | 718.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 484.0 | C31 | 1.132 | 28.54 | 1880.0 |
| 1640.000 | Suelocemento | 0.000 | 57.67 | 3959.4 | AC32bas35/50G 2 | 0.000 | 27.25 | 1859.6 |
| | AC22bin35/50S | 0.000 | 15.96 | 1065.0 | PA11 45/80-65C | 0.000 | 10.44 | 695.4 |
| | SC (Arc) | 0.008 | 46.05 | 3387.8 | AC22bin35/50(a) | 0.000 | 9.48 | 727.5 |
| | PA1145/80-65(a) | 0.000 | 6.39 | 490.4 | C31 | 0.008 | 9.83 | 1889.8 |
| 1660.000 | Suelocemento | 4.045 | 32.33 | 3991.7 | AC32bas35/50G 2 | 1.917 | 15.25 | 1874.8 |
| | AC22bin35/50S | 1.124 | 8.93 | 1073.9 | PA11 45/80-65C | 0.737 | 5.84 | 701.2 |
| | SC (Arc) | 2.997 | 26.21 | 3414.0 | AC22bin35/50(a) | 0.621 | 5.38 | 732.8 |
| | PA1145/80-65(a) | 0.418 | 3.63 | 494.0 | C31 | 0.409 | 3.60 | 1893.4 |
| 1680.000 | Suelocemento | 4.310 | 83.55 | 4075.2 | AC32bas35/50G 2 | 2.050 | 39.67 | 1914.5 |
| | AC22bin35/50S | 1.204 | 23.28 | 1097.2 | PA11 45/80-65C | 0.790 | 15.27 | 716.5 |
| | SC (Arc) | 2.993 | 59.88 | 3473.9 | AC22bin35/50(a) | 0.621 | 12.42 | 745.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 502.4 | C31 | 1.257 | 19.18 | 1912.6 |
| 1700.000 | Suelocemento | 4.429 | 87.41 | 4162.7 | AC32bas35/50G 2 | 2.110 | 41.61 | 1956.1 |
| | AC22bin35/50S | 1.240 | 24.44 | 1121.7 | PA11 45/80-65C | 0.814 | 16.04 | 732.5 |
| | SC (Arc) | 2.993 | 59.85 | 3533.7 | AC22bin35/50(a) | 0.621 | 12.42 | 757.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 510.8 | C31 | 2.097 | 35.64 | 1948.3 |
| 1720.000 | Suelocemento | 4.547 | 89.76 | 4252.4 | AC32bas35/50G 2 | 2.169 | 42.78 | 1998.9 |
| | AC22bin35/50S | 1.275 | 25.15 | 1146.8 | PA11 45/80-65C | 0.837 | 16.51 | 749.1 |
| | SC (Arc) | 2.993 | 59.85 | 3593.6 | AC22bin35/50(a) | 0.621 | 12.42 | 770.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 519.1 | C31 | 1.257 | 27.24 | 1975.5 |
| 1740.000 | Suelocemento | 4.665 | 92.12 | 4344.5 | AC32bas35/50G 2 | 2.227 | 43.96 | 2042.8 |
| | AC22bin35/50S | 1.310 | 25.85 | 1172.7 | PA11 45/80-65C | 0.861 | 16.98 | 766.0 |
| | SC (Arc) | 2.993 | 59.86 | 3653.4 | AC22bin35/50(a) | 0.621 | 12.42 | 782.5 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 527.5 | C31 | 1.256 | 25.14 | 2000.6 |
| 1760.000 | Suelocemento | 4.783 | 94.48 | 4439.0 | AC32bas35/50G 2 | 2.286 | 45.13 | 2088.0 |
| | AC22bin35/50S | 1.346 | | | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|------------------|-------------|--------------|--------------|------------------|-------------|--------------|--------------|
| 1940.000 | Suelocemento | 4.817 | 93.95 | 5295.4 | AC32bas35/50G 2 | 2.303 | 44.87 | 2497.3 |
| | AC22bin35/50S | 1.356 | 26.40 | 1440.1 | PA11 45/80-65C | 0.892 | 17.35 | 941.8 |
| | SC (Arc) | 2.993 | 59.86 | 4252.0 | AC22bin35/50 (a) | 0.621 | 12.42 | 906.8 |
| | PA1145/80-65 (a) | 0.419 | 8.37 | 611.3 | C31 | 1.256 | 25.14 | 2252.0 |
| 1960.000 | Suelocemento | 3.319 | 95.88 | 5391.3 | AC32bas35/50G 2 | 1.554 | 45.84 | 2543.1 |
| | AC22bin35/50S | 0.906 | 26.98 | 1467.0 | PA11 45/80-65C | 0.592 | 17.74 | 959.6 |
| | SC (Arc) | 2.993 | 59.86 | 4311.9 | AC22bin35/50 (a) | 0.621 | 12.42 | 919.2 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 619.6 | C31 | 1.257 | 25.13 | 2277.1 |
| 1980.000 | Suelocemento | 3.318 | 66.37 | 5457.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 2574.2 |
| | AC22bin35/50S | 0.906 | 18.13 | 1485.2 | PA11 45/80-65C | 0.592 | 11.83 | 971.4 |
| | SC (Arc) | 2.993 | 59.86 | 4371.7 | AC22bin35/50 (a) | 0.621 | 12.42 | 931.6 |
| | PA1145/80-65 (a) | 0.419 | 8.37 | 628.0 | C31 | 1.256 | 25.14 | 2302.3 |
| 2000.000 | Suelocemento | 5.054 | 83.55 | 5541.2 | AC32bas35/50G 2 | 2.422 | 39.67 | 2613.9 |
| | AC22bin35/50S | 1.427 | 23.28 | 1508.4 | PA11 45/80-65C | 0.939 | 15.27 | 986.7 |
| | SC (Arc) | 2.993 | 59.86 | 4431.6 | AC22bin35/50 (a) | 0.621 | 12.42 | 944.0 |
| | PA1145/80-65 (a) | 0.420 | 8.38 | 636.4 | C31 | 1.256 | 25.14 | 2327.4 |
| 2020.000 | Suelocemento | 4.944 | 99.61 | 5640.8 | AC32bas35/50G 2 | 2.367 | 47.70 | 2661.6 |
| | AC22bin35/50S | 1.394 | 28.10 | 1536.6 | PA11 45/80-65C | 0.917 | 18.48 | 1005.2 |
| | SC (Arc) | 2.993 | 59.86 | 4491.4 | AC22bin35/50 (a) | 0.621 | 12.42 | 956.5 |
| | PA1145/80-65 (a) | 0.420 | 8.38 | 644.8 | C31 | 1.256 | 25.14 | 2352.5 |
| 2040.000 | Suelocemento | 4.872 | 98.25 | 5739.1 | AC32bas35/50G 2 | 2.331 | 47.02 | 2708.6 |
| | AC22bin35/50S | 1.373 | 27.69 | 1564.2 | PA11 45/80-65C | 0.902 | 18.21 | 1023.4 |
| | SC (Arc) | 2.993 | 59.86 | 4551.3 | AC22bin35/50 (a) | 0.621 | 12.42 | 968.9 |
| | PA1145/80-65 (a) | 0.420 | 8.38 | 653.1 | C31 | 1.256 | 25.13 | 2377.7 |
| 2060.000 | Suelocemento | 4.746 | 96.26 | 5835.4 | AC32bas35/50G 2 | 2.268 | 46.03 | 2754.6 |
| | AC22bin35/50S | 1.335 | 27.10 | 1591.3 | PA11 45/80-65C | 0.877 | 17.81 | 1041.2 |
| | SC (Arc) | 2.993 | 59.86 | 4611.1 | AC22bin35/50 (a) | 0.621 | 12.42 | 981.3 |
| | PA1145/80-65 (a) | 0.418 | 8.38 | 661.5 | C31 | 1.257 | 25.13 | 2402.8 |
| 2080.000 | Suelocemento | 1.369 | 78.50 | 5913.9 | AC32bas35/50G 2 | 0.659 | 37.42 | 2792.0 |
| | AC22bin35/50S | 0.387 | 22.01 | 1613.4 | PA11 45/80-65C | 0.254 | 14.46 | 1055.6 |
| | SC (Arc) | 0.839 | 51.72 | 4662.9 | AC22bin35/50 (a) | 0.158 | 10.76 | 992.1 |
| | PA1145/80-65 (a) | 0.106 | 7.26 | 668.8 | C31 | 0.209 | 12.29 | 2415.1 |
| 2100.000 | Suelocemento | 3.974 | 20.88 | 5934.7 | AC32bas35/50G 2 | 1.909 | 9.95 | 2802.0 |
| | AC22bin35/50S | 1.127 | 5.84 | 1619.2 | PA11 45/80-65C | 0.743 | 3.83 | 1059.5 |
| | SC (Arc) | 2.208 | 15.42 | 4678.3 | AC22bin35/50 (a) | 0.463 | 3.05 | 995.1 |
| | PA1145/80-65 (a) | 0.315 | 2.05 | 670.8 | C31 | 0.881 | 4.05 | 2419.1 |
| 2120.000 | Suelocemento | 4.145 | 84.36 | 6019.1 | AC32bas35/50G 2 | 1.968 | 40.10 | 2842.1 |
| | AC22bin35/50S | 1.155 | 23.55 | 1642.7 | PA11 45/80-65C | 0.757 | 15.45 | 1074.9 |
| | SC (Arc) | 2.993 | 59.25 | 4737.5 | AC22bin35/50 (a) | 0.621 | 12.29 | 1007.4 |
| | PA1145/80-65 (a) | 0.419 | 8.29 | 679.1 | C31 | 1.256 | 25.91 | 2445.0 |
| 2140.000 | Suelocemento | 4.061 | 81.86 | 6101.0 | AC32bas35/50G 2 | 1.925 | 38.83 | 2880.9 |
| | AC22bin35/50S | 1.129 | 22.78 | 1665.5 | PA11 45/80-65C | 0.740 | 14.93 | 1089.8 |
| | SC (Arc) | 2.993 | 59.86 | 4797.4 | AC22bin35/50 (a) | 0.621 | 12.42 | 1019.8 |
| | PA1145/80-65 (a) | 0.419 | 8.38 | 687.5 | C31 | 1.256 | 25.13 | 2470.2 |
| 2160.000 | Suelocemento | 4.053 | 81.09 | 6182.1 | AC32bas35/50G 2 | 1.922 | 38.44 | 2919.4 |
| | AC22bin35/50S | 1.127 | 22.54 | 1688.1 | PA11 45/80-65C | 0.739 | 14.78 | 1104.6 |
| | SC (Arc) | 2.993 | 59.86 | 4857.3 | AC22bin35/50 (a) | 0.621 | 12.42 | 1032.2 |
| | PA1145/80-65 (a) | 0.419 | 8.38 | 695.9 | C31 | 1.256 | 25.13 | 2495.3 |
| 2180.000 | Suelocemento | 4.053 | 81.07 | 6263.1 | AC32bas35/50G 2 | 1.922 | 38.43 | 2957.8 |
| | AC22bin35/50S | 1.127 | 22.54 | 1710.6 | PA11 45/80-65C | 0.739 | 14.77 | 1119.4 |
| | SC (Arc) | 2.993 | 59.86 | 4917.1 | AC22bin35/50 (a) | 0.621 | 12.42 | 1044.7 |
| | PA1145/80-65 (a) | 0.419 | 8.39 | 704.3 | C31 | 1.256 | 25.13 | 2520.4 |
| 2200.000 | Suelocemento | 4.053 | 81.07 | 6344.2 | AC32bas35/50G 2 | 1.922 | 38.43 | 2996.2 |
| | AC22bin35/50S | 1.127 | 22.54 | 1733.1 | PA11 45/80-65C | 0.739 | 14.77 | 1134.2 |
| | SC (Arc) | 2.993 | 59.86 | 4977.0 | AC22bin35/50 (a) | 0.621 | 12.42 | 1057.1 |
| | PA1145/80-65 (a) | 0.419 | 8.38 | 712.7 | C31 | 1.256 | 25.13 | 2545.6 |
| 2220.000 | Suelocemento | 4.053 | 81.07 | 6425.3 | AC32bas35/50G 2 | 1.922 | 38.43 | 3034.7 |
| | AC22bin35/50S | 1.127 | 22.54 | 1755.7 | PA11 45/80-65C | 0.739 | 14.77 | 1148.9 |
| | SC (Arc) | 2.993 | 59.86 | 5036.8 | AC22bin35/50 (a) | 0.621 | 12.42 | 1069.5 |
| | PA1145/80-65 (a) | 0.419 | 8.39 | 721.0 | C31 | 1.256 | 25.13 | 2570.7 |
| 2240.000 | Suelocemento | 4.053 | 81.07 | 6506.3 | AC32bas35/50G 2 | 1.922 | 38.43 | 3073.1 |
| | AC22bin35/50S | 1.127 | 22.54 | 1778.2 | PA11 45/80-65C | 0.739 | 14.77 | 1163.7 |
| | SC (Arc) | 2.993 | 59.86 | 5096.7 | AC22bin35/50 (a) | 0.621 | 12.42 | 1081.9 |
| | PA1145/80-65 (a) | 0.419 | 8.38 | 729.4 | C31 | 1.256 | 25.13 | 2595.8 |
| 2260.000 | Suelocemento | 5.654 | 98.37 | 6604.7 | AC32bas35/50G 2 | 2.722 | 47.08 | 3120.2 |
| | AC22bin35/50S | 1.607 | 27.73 | 1805.9 | PA11 45/80-65C | 1.059 | 18.23 | 1181.9 |
| | SC (Arc) | 2.993 | 59.86 | 5156.5 | AC22bin35/50 (a) | 0.621 | 12.42 | 1094.4 |
| | PA1145/80-65 (a) | 0.420 | 8.38 | 737.8 | C31 | 1.256 | 25.13 | 2620.9 |
| 2280.000 | Suelocemento | 5.318 | 109.83 | 6714.5 | AC32bas35/50G 2 | 2.554 | 52.81 | 3173.0 |
| | AC22bin35/50S | 1.506 | 31.16 | 1837.1 | PA11 45/80-65C | 0.992 | 20.53 | 1202.5 |
| | SC (Arc) | 2.993 | 59.86 | 5216.4 | AC22bin35/50 (a) | 0.621 | 12.42 | 1106.8 |
| | PA1145/80-65 (a) | 0.418 | 8.39 | 746.2 | C31 | 1.258 | 25.13 | 2646.1 |
| 2300.000 | Suelocemento | 5.006 | 103.17 | 6817.7 | AC32bas35/50G 2 | 2.398 | 49.48 | 3222.5 |
| | AC22bin35/50S | 1.413 | 29.16 | 1866.3 | PA11 45/80-65C | 0.929 | 19.20 | 1221.7 |
| | SC (Arc) | 2.993 | 59.86 | 5276.3 | AC22bin35/50 (a) | 0.621 | 12.42 | 1119.2 |
| | PA1145/80-65 (a) | 0.418 | 8.38 | 754.6 | C31 | 1.257 | 25.13 | 2671.2 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|------------------|-------------|--------------|--------------|------------------|-------------|--------------|--------------|
| 2320.000 | Suelocemento | 4.743 | 97.41 | 6915.1 | AC32bas35/50G 2 | 2.266 | 46.60 | 3269.1 |
| | AC22bin35/50S | 1.333 | 27.44 | 1893.7 | PA11 45/80-65C | 0.877 | 18.04 | 1239.7 |
| | SC (Arc) | 2.993 | 59.86 | 5336.1 | AC22bin35/50 (a) | 0.621 | 12.42 | 1131.6 |
| | PA1145/80-65 (a) | 0.418 | 8.38 | 762.9 | C31 | 1.258 | 25.14 | 2696.3 |
| 2340.000 | Suelocemento | 4.518 | 92.54 | 7007.6 | AC32bas35/50G 2 | 2.154 | 44.16 | 3313.2 |
| | AC22bin35/50S | 1.266 | 25.97 | 1919.7 | PA11 45/80-65C | 0.832 | 17.07 | 1256.8 |
| | SC (Arc) | 2.993 | 59.86 | 5396.0 | AC22bin35/50 (a) | 0.621 | 12.42 | 1144.1 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 771.3 | C31 | 1.258 | 27.25 | 2723.6 |
| 2360.000 | Suelocemento | 4.326 | 88.39 | 7096.0 | AC32bas35/50G 2 | 2.058 | 42.09 | 3355.3 |
| | AC22bin35/50S | 1.209 | 24.73 | 1944.4 | PA11 45/80-65C | 0.793 | 16.24 | 1273.0 |
| | SC (Arc) | 2.993 | 59.86 | 5455.8 | AC22bin35/50 (a) | 0.621 | 12.42 | 1156.5 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 779.7 | C31 | 1.257 | 35.64 | 2759.2 |
| 2380.000 | Suelocemento | 4.163 | 84.86 | 7180.9 | AC32bas35/50G 2 | 1.976 | 40.33 | 3395.7 |
| | AC22bin35/50S | 1.160 | 23.67 | 1968.1 | PA11 45/80-65C | 0.761 | 15.53 | 1288.6 |
| | SC (Arc) | 2.993 | 59.86 | 5515.7 | AC22bin35/50 (a) | 0.621 | 12.42 | 1168.9 |
| | PA1145/80-65 (a) | 0.419 | 8.37 | 788.1 | C31 | 1.256 | 25.14 | 2784.4 |
| 2400.000 | Suelocemento | 4.066 | 81.98 | 7262.9 | AC32bas35/50G 2 | 1.928 | 38.89 | 3434.5 |
| | AC22bin35/50S | 1.130 | 22.81 | 1990.9 | PA11 45/80-65C | 0.741 | 14.96 | 1303.5 |
| | SC (Arc) | 2.993 | 59.86 | 5575.6 | AC22bin35/50 (a) | 0.621 | 12.42 | 1181.3 |
| | PA1145/80-65 (a) | 0.419 | 8.38 | 796.4 | C31 | 1.256 | 25.13 | 2809.5 |
| 2420.000 | Suelocemento | 4.056 | 81.20 | 7344.1 | AC32bas35/50G 2 | 1.923 | 38.50 | 3473.0 |
| | AC22bin35/50S | 1.127 | 22.57 | 2013.5 | PA11 45/80-65C | 0.739 | 14.80 | 1318.3 |
| | SC (Arc) | 2.993 | 59.86 | 5635.4 | AC22bin35/50 (a) | 0.621 | 12.42 | 1193.7 |
| | PA1145/80-65 (a) | 0.419 | 8.37 | 804.8 | C31 | 1.256 | 25.13 | 2834.6 |
| 2440.000 | Suelocemento | 4.053 | 81.08 | 7425.1 | AC32bas35/50G 2 | 1.922 | 38.44 | 3511.5 |
| | AC22bin35/50S | 1.127 | 22.54 | 2036.0 | PA11 45/80-65C | 0.739 | 14.78 | 1333.1 |
| | SC (Arc) | 2.993 | 59.86 | 5695.3 | AC22bin35/50 (a) | 0.621 | 12.42 | 1206.2 |
| | PA1145/80-65 (a) | 0.419 | 8.38 | 813.2 | C31 | 1.256 | 25.13 | 2859.8 |
| 2460.000 | | | | | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
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Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
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*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 2700.000 | Suelocemento | 3.318 | 66.36 | 8336.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 3940.5 |
| | AC22bin35/50S | 0.906 | 18.13 | 2286.8 | PA11 45/80-65C | 0.592 | 11.83 | 1497.2 |
| | SC (Arc) | 2.993 | 59.86 | 6449.6 | AC22bin35/50(a) | 0.621 | 12.42 | 1362.7 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 918.8 | C31 | 1.256 | 25.12 | 3165.2 |
| 2720.000 | Suelocemento | 3.318 | 66.36 | 8402.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 3971.6 |
| | AC22bin35/50S | 0.906 | 18.13 | 2304.9 | PA11 45/80-65C | 0.592 | 11.83 | 1509.0 |
| | SC (Arc) | 2.993 | 59.86 | 6509.5 | AC22bin35/50(a) | 0.621 | 12.42 | 1375.1 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 927.2 | C31 | 1.256 | 25.12 | 3190.3 |
| 2740.000 | Suelocemento | 3.318 | 66.36 | 8468.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 4002.7 |
| | AC22bin35/50S | 0.906 | 18.13 | 2323.1 | PA11 45/80-65C | 0.592 | 11.83 | 1520.8 |
| | SC (Arc) | 2.993 | 59.86 | 6569.4 | AC22bin35/50(a) | 0.621 | 12.42 | 1387.5 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 935.5 | C31 | 1.256 | 25.12 | 3215.4 |
| 2760.000 | Suelocemento | 3.318 | 66.36 | 8535.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 4033.7 |
| | AC22bin35/50S | 0.906 | 18.13 | 2341.2 | PA11 45/80-65C | 0.592 | 11.83 | 1532.7 |
| | SC (Arc) | 2.993 | 59.86 | 6629.2 | AC22bin35/50(a) | 0.621 | 12.42 | 1400.0 |
| | PA1145/80-65(a) | 0.420 | 8.39 | 943.9 | C31 | 1.256 | 25.12 | 3240.6 |
| 2780.000 | Suelocemento | 3.318 | 66.36 | 8601.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 4064.8 |
| | AC22bin35/50S | 0.906 | 18.13 | 2359.3 | PA11 45/80-65C | 0.592 | 11.83 | 1544.5 |
| | SC (Arc) | 2.993 | 59.86 | 6689.1 | AC22bin35/50(a) | 0.621 | 12.42 | 1412.4 |
| | PA1145/80-65(a) | 0.420 | 8.40 | 952.3 | C31 | 1.256 | 25.12 | 3265.7 |
| 2800.000 | Suelocemento | 3.318 | 66.36 | 8667.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 4095.9 |
| | AC22bin35/50S | 0.906 | 18.13 | 2377.4 | PA11 45/80-65C | 0.592 | 11.83 | 1556.3 |
| | SC (Arc) | 2.993 | 59.86 | 6748.9 | AC22bin35/50(a) | 0.621 | 12.42 | 1424.8 |
| | PA1145/80-65(a) | 0.420 | 8.40 | 960.7 | C31 | 1.256 | 25.12 | 3290.8 |
| 2820.000 | Suelocemento | 3.318 | 66.36 | 8734.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 4127.0 |
| | AC22bin35/50S | 0.906 | 18.13 | 2395.6 | PA11 45/80-65C | 0.592 | 11.83 | 1568.2 |
| | SC (Arc) | 2.993 | 59.86 | 6808.8 | AC22bin35/50(a) | 0.621 | 12.42 | 1437.2 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 969.1 | C31 | 1.256 | 25.12 | 3315.9 |
| 2840.000 | Suelocemento | 3.318 | 66.36 | 8800.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 4158.1 |
| | AC22bin35/50S | 0.906 | 18.13 | 2413.7 | PA11 45/80-65C | 0.592 | 11.83 | 1580.0 |
| | SC (Arc) | 2.993 | 59.86 | 6888.6 | AC22bin35/50(a) | 0.621 | 12.42 | 1449.7 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 977.5 | C31 | 1.256 | 25.12 | 3341.1 |
| 2860.000 | Suelocemento | 3.318 | 66.36 | 8866.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 4189.1 |
| | AC22bin35/50S | 0.906 | 18.13 | 2431.8 | PA11 45/80-65C | 0.592 | 11.83 | 1591.8 |
| | SC (Arc) | 2.993 | 59.86 | 6928.5 | AC22bin35/50(a) | 0.621 | 12.42 | 1462.1 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 985.9 | C31 | 1.256 | 30.37 | 3371.4 |
| 2880.000 | Suelocemento | 3.318 | 66.36 | 8933.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 4220.2 |
| | AC22bin35/50S | 0.906 | 18.13 | 2449.9 | PA11 45/80-65C | 0.592 | 11.83 | 1603.7 |
| | SC (Arc) | 2.993 | 59.86 | 6988.4 | AC22bin35/50(a) | 0.621 | 12.42 | 1474.5 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 994.3 | C31 | 1.256 | 26.17 | 3397.6 |
| 2900.000 | Suelocemento | 4.249 | 80.33 | 9013.6 | AC32bas35/50G 2 | 2.048 | 38.48 | 4258.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 2468.1 | PA11 45/80-65C | 0.591 | 11.83 | 1615.5 |
| | SC (Arc) | 1.569 | 38.49 | 7026.8 | AC22bin35/50(a) | 0.621 | 12.42 | 1486.9 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 1002.7 | C31 | 1.256 | 25.12 | 3422.7 |
| 2920.000 | Suelocemento | 4.249 | 84.99 | 9098.6 | AC32bas35/50G 2 | 2.048 | 40.95 | 4299.7 |
| | AC22bin35/50S | 0.906 | 18.11 | 2486.2 | PA11 45/80-65C | 0.591 | 11.83 | 1627.3 |
| | SC (Arc) | 1.569 | 31.37 | 7058.2 | AC22bin35/50(a) | 0.621 | 12.42 | 1499.4 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 1011.1 | C31 | 1.256 | 25.12 | 3447.9 |
| 2940.000 | Suelocemento | 4.249 | 84.99 | 9183.6 | AC32bas35/50G 2 | 2.048 | 40.95 | 4340.6 |
| | AC22bin35/50S | 0.906 | 18.11 | 2504.3 | PA11 45/80-65C | 0.591 | 11.83 | 1639.2 |
| | SC (Arc) | 1.569 | 31.37 | 7089.6 | AC22bin35/50(a) | 0.621 | 12.42 | 1511.8 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 1019.4 | C31 | 1.256 | 25.12 | 3473.0 |
| 2960.000 | Suelocemento | 3.319 | 77.03 | 9260.6 | AC32bas35/50G 2 | 1.554 | 36.73 | 4377.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 2522.4 | PA11 45/80-65C | 0.592 | 11.83 | 1651.0 |
| | SC (Arc) | 2.993 | 43.55 | 7133.1 | AC22bin35/50(a) | 0.621 | 12.42 | 1524.2 |
| | PA1145/80-65(a) | 0.418 | 8.38 | 1027.8 | C31 | 1.257 | 25.13 | 3498.1 |
| 2980.000 | Suelocemento | 3.319 | 66.38 | 9327.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 4408.4 |
| | AC22bin35/50S | 0.906 | 18.13 | 2540.5 | PA11 45/80-65C | 0.592 | 11.83 | 1662.8 |
| | SC (Arc) | 2.993 | 59.86 | 7193.0 | AC22bin35/50(a) | 0.621 | 12.42 | 1536.6 |
| | PA1145/80-65(a) | 0.418 | 8.36 | 1036.2 | C31 | 1.404 | 25.51 | 3523.6 |
| 3000.000 | Suelocemento | 3.318 | 66.37 | 9393.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 4439.5 |
| | AC22bin35/50S | 0.906 | 18.13 | 2558.6 | PA11 45/80-65C | 0.592 | 11.83 | 1674.7 |
| | SC (Arc) | 2.993 | 59.86 | 7252.9 | AC22bin35/50(a) | 0.621 | 12.42 | 1549.0 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 1044.6 | C31 | 1.550 | 30.65 | 3554.3 |
| 3020.000 | Suelocemento | 3.318 | 66.36 | 9459.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 4470.6 |
| | AC22bin35/50S | 0.906 | 18.13 | 2576.8 | PA11 45/80-65C | 0.592 | 11.83 | 1686.5 |
| | SC (Arc) | 2.993 | 59.86 | 7312.7 | AC22bin35/50(a) | 0.621 | 12.42 | 1561.5 |
| | PA1145/80-65(a) | 0.419 | 8.39 | 1052.9 | C31 | 1.525 | 30.79 | 3585.1 |
| 3040.000 | Suelocemento | 3.318 | 66.36 | 9526.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 4501.7 |
| | AC22bin35/50S | 0.906 | 18.13 | 2594.9 | PA11 45/80-65C | 0.592 | 11.83 | 1698.3 |
| | SC (Arc) | 2.993 | 59.86 | 7372.6 | AC22bin35/50(a) | 0.621 | 12.42 | 1573.9 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 1061.3 | C31 | 1.464 | 29.93 | 3615.0 |
| 3060.000 | Suelocemento | 3.318 | 66.36 | 9592.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 4532.7 |
| | AC22bin35/50S | 0.906 | 18.13 | 2613.0 | PA11 45/80-65C | 0.592 | 11.83 | 1710.2 |
| | SC (Arc) | 2.863 | 59.21 | 7431.8 | AC22bin35/50(a) | 0.613 | 12.38 | 1586.3 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 1069.7 | C31 | 0.628 | 24.70 | 3639.7 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-------------------|-------------|--------------|--------------|
| 3080.000 | Suelocemento | 3.318 | 66.36 | 9658.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 4563.8 |
| | AC22bin35/50S | 0.906 | 18.13 | 2631.1 | PA11 45/80-65C | 0.592 | 11.83 | 1722.0 |
| | SC (Arc) | 2.950 | 57.69 | 7489.5 | AC22bin35/50(a) | 0.621 | 12.32 | 1598.6 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 1078.1 | C31 | 0.654 | 12.67 | 3652.4 |
| 3100.000 | Suelocemento | 3.319 | 66.36 | 9725.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 4594.9 |
| | AC22bin35/50S | 0.906 | 18.13 | 2649.3 | PA11 45/80-65C | 0.592 | 11.83 | 1733.8 |
| | SC (Arc) | 2.993 | 59.61 | 7549.1 | AC22bin35/50(a) | 0.621 | 12.42 | 1611.0 |
| | PA1145/80-65(a) | 0.418 | 8.38 | 1086.4 | C31 | 0.794 | 14.38 | 3666.7 |
| 3120.000 | Suelocemento | 3.318 | 66.37 | 9791.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 4626.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 2667.4 | PA11 45/80-65C | 0.592 | 11.83 | 1745.7 |
| | SC (Arc) | 2.992 | 59.85 | 7608.9 | AC22bin35/50(a) | 0.621 | 12.42 | 1623.4 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 1094.8 | C31 | 0.808 | 16.69 | 3683.4 |
| 3140.000 | Suelocemento | 3.318 | 66.37 | 9857.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 4657.1 |
| | AC22bin35/50S | 0.906 | 18.13 | 2685.5 | PA11 45/80-65C | 0.592 | 11.83 | 1757.5 |
| | SC (Arc) | 2.983 | 59.78 | 7668.7 | AC22bin35/50(a) | 0.621 | 12.42 | 1635.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1103.2 | C31 | 0.700 | 14.88 | 3698.3 |
| 3160.000 | Suelocemento | 3.318 | 66.37 | 9924.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 4688.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 2703.6 | PA11 45/80-65C | 0.592 | 11.84 | 1769.3 |
| | SC (Arc) | 2.912 | 59.09 | 7727.8 | AC22bin35/50(a) | 0.621 | 12.42 | 1648.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1111.6 | C31 | 0.640 | 13.35 | 3711.7 |
| 3180.000 | Suelocemento | 3.318 | 66.36 | 9990.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 4719.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 2721.8 | PA11 45/80-65C | 0.592 | 11.83 | 1781.2 |
| | SC (Arc) | 2.883 | 57.81 | 7785.6 | AC22bin35/50(a) | 0.619 | 12.39 | 1660.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1119.9 | C31 | 0.631 | 12.67 | 3724.3 |
| 3200.000 | Suelocemento | 3.318 | 66.36 | 10057.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 4750.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 2739.9 | PA11 45/80-65C | 0.592 | 11.83 | 1793.0 |
| | SC (Arc) | 2.982 | 57.96 | 7843.6 | AC22bin35/50(a) | 0.621 | 12.35 | 1673.0 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 1128.3 | C31 | 1.445 | 16.67 | 3741.0 |
| 3220.000 | Suelocemento | 3.318 | 66.36 | 10123.4 | AC32bas35/50G 2</ | | | |

Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 3460.000 | Suelocemento | 3.318 | 66.36 | 10919.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 5154.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 2975.5 | PA11 45/80-65C | 0.591 | 11.83 | 1946.8 |
| | SC (Arc) | 2.923 | 58.46 | 8611.9 | AC22bin35/50(a) | 0.621 | 12.43 | 1834.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1237.1 | C31 | 1.255 | 25.10 | 4116.0 |
| 3480.000 | Suelocemento | 3.318 | 66.36 | 10986.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 5185.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 2993.6 | PA11 45/80-65C | 0.591 | 11.83 | 1958.6 |
| | SC (Arc) | 2.923 | 58.46 | 8670.4 | AC22bin35/50(a) | 0.621 | 12.43 | 1847.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1245.5 | C31 | 1.255 | 25.10 | 4141.1 |
| 3500.000 | Suelocemento | 3.318 | 66.36 | 11052.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 5216.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 3011.7 | PA11 45/80-65C | 0.591 | 11.83 | 1970.4 |
| | SC (Arc) | 2.923 | 58.46 | 8728.9 | AC22bin35/50(a) | 0.621 | 12.43 | 1859.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1253.8 | C31 | 1.255 | 25.10 | 4166.2 |
| 3520.000 | Suelocemento | 3.318 | 66.36 | 11118.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 5247.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 3029.8 | PA11 45/80-65C | 0.591 | 11.83 | 1982.3 |
| | SC (Arc) | 2.923 | 58.46 | 8787.3 | AC22bin35/50(a) | 0.621 | 12.43 | 1871.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1262.2 | C31 | 1.255 | 25.10 | 4191.3 |
| 3540.000 | Suelocemento | 3.318 | 66.36 | 11185.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 5278.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 3048.0 | PA11 45/80-65C | 0.591 | 11.83 | 1994.1 |
| | SC (Arc) | 2.923 | 58.46 | 8845.8 | AC22bin35/50(a) | 0.621 | 12.43 | 1884.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1270.6 | C31 | 1.255 | 25.10 | 4216.4 |
| 3560.000 | Suelocemento | 3.318 | 66.36 | 11251.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 5309.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 3066.1 | PA11 45/80-65C | 0.591 | 11.83 | 2005.9 |
| | SC (Arc) | 2.923 | 58.46 | 8904.2 | AC22bin35/50(a) | 0.621 | 12.43 | 1896.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1278.9 | C31 | 1.255 | 25.10 | 4241.5 |
| 3580.000 | Suelocemento | 3.318 | 66.36 | 11317.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 5340.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 3084.2 | PA11 45/80-65C | 0.591 | 11.83 | 2017.8 |
| | SC (Arc) | 2.923 | 58.46 | 8962.7 | AC22bin35/50(a) | 0.621 | 12.43 | 1909.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1287.3 | C31 | 1.255 | 25.10 | 4266.6 |
| 3600.000 | Suelocemento | 3.318 | 66.36 | 11384.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 5371.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 3102.3 | PA11 45/80-65C | 0.591 | 11.83 | 2029.6 |
| | SC (Arc) | 2.923 | 58.46 | 9021.2 | AC22bin35/50(a) | 0.621 | 12.43 | 1921.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1295.7 | C31 | 1.255 | 25.10 | 4291.7 |
| 3620.000 | Suelocemento | 3.318 | 66.36 | 11450.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 5403.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 3120.4 | PA11 45/80-65C | 0.591 | 11.83 | 2041.4 |
| | SC (Arc) | 2.923 | 58.46 | 9079.6 | AC22bin35/50(a) | 0.621 | 12.43 | 1934.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1304.0 | C31 | 1.255 | 25.10 | 4316.8 |
| 3640.000 | Suelocemento | 3.318 | 66.36 | 11516.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 5434.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 3138.5 | PA11 45/80-65C | 0.591 | 11.83 | 2053.2 |
| | SC (Arc) | 2.923 | 58.46 | 9138.1 | AC22bin35/50(a) | 0.621 | 12.43 | 1946.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1312.4 | C31 | 1.255 | 25.10 | 4341.9 |
| 3660.000 | Suelocemento | 3.318 | 66.36 | 11583.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 5465.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 3156.7 | PA11 45/80-65C | 0.591 | 11.83 | 2065.1 |
| | SC (Arc) | 2.923 | 58.46 | 9196.5 | AC22bin35/50(a) | 0.621 | 12.43 | 1958.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1320.8 | C31 | 1.255 | 25.10 | 4367.0 |
| 3680.000 | Suelocemento | 3.318 | 66.36 | 11649.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 5496.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 3174.8 | PA11 45/80-65C | 0.591 | 11.83 | 2076.9 |
| | SC (Arc) | 2.923 | 58.46 | 9255.0 | AC22bin35/50(a) | 0.621 | 12.43 | 1971.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1329.1 | C31 | 1.255 | 25.10 | 4392.1 |
| 3700.000 | Suelocemento | 3.318 | 66.36 | 11716.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 5527.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 3192.9 | PA11 45/80-65C | 0.591 | 11.83 | 2088.7 |
| | SC (Arc) | 2.923 | 58.46 | 9313.5 | AC22bin35/50(a) | 0.621 | 12.43 | 1983.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1337.5 | C31 | 1.255 | 25.10 | 4417.2 |
| 3720.000 | Suelocemento | 3.318 | 66.36 | 11782.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 5558.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 3211.0 | PA11 45/80-65C | 0.591 | 11.83 | 2100.5 |
| | SC (Arc) | 2.923 | 58.46 | 9371.9 | AC22bin35/50(a) | 0.621 | 12.43 | 1996.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1345.9 | C31 | 1.255 | 25.10 | 4442.3 |
| 3740.000 | Suelocemento | 0.000 | 49.10 | 11831.5 | AC32bas35/50G 2 | 0.000 | 23.00 | 5581.4 |
| | AC22bin35/50S | 0.000 | 13.41 | 3224.4 | PA11 45/80-65C | 0.000 | 8.75 | 2109.3 |
| | SC (Arc) | 0.006 | 43.35 | 9415.3 | AC22bin35/50(a) | 0.000 | 9.19 | 2005.3 |
| | PA1145/80-65(a) | 0.000 | 6.19 | 1352.1 | C31 | 0.007 | 8.55 | 4450.8 |
| 3760.000 | Suelocemento | 3.318 | 60.39 | 11891.9 | AC32bas35/50G 2 | 1.554 | 28.28 | 5609.7 |
| | AC22bin35/50S | 0.906 | 16.49 | 3240.9 | PA11 45/80-65C | 0.591 | 10.76 | 2120.1 |
| | SC (Arc) | 2.923 | 53.28 | 9468.5 | AC22bin35/50(a) | 0.621 | 11.31 | 2016.6 |
| | PA1145/80-65(a) | 0.418 | 7.61 | 1359.7 | C31 | 1.255 | 11.36 | 4462.2 |
| 3780.000 | Suelocemento | 3.318 | 66.36 | 11958.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 5640.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 3259.0 | PA11 45/80-65C | 0.591 | 11.83 | 2131.9 |
| | SC (Arc) | 2.923 | 58.46 | 9527.0 | AC22bin35/50(a) | 0.621 | 12.43 | 2029.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1368.1 | C31 | 1.255 | 25.10 | 4487.3 |
| 3800.000 | Suelocemento | 3.318 | 66.36 | 12024.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 5671.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 3277.2 | PA11 45/80-65C | 0.591 | 11.83 | 2143.7 |
| | SC (Arc) | 2.936 | 58.53 | 9585.5 | AC22bin35/50(a) | 0.621 | 12.43 | 2041.5 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 1376.4 | C31 | 1.255 | 25.10 | 4512.4 |
| 3820.000 | Suelocemento | 3.318 | 66.36 | 12091.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 5702.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 3295.3 | PA11 45/80-65C | 0.592 | 11.83 | 2155.5 |
| | SC (Arc) | 2.957 | 58.93 | 9644.5 | AC22bin35/50(a) | 0.621 | 12.43 | 2053.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1384.8 | C31 | 1.256 | 25.11 | 4537.5 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 3840.000 | Suelocemento | 3.318 | 66.36 | 12157.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 5734.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 3313.4 | PA11 45/80-65C | 0.591 | 11.83 | 2167.4 |
| | SC (Arc) | 2.965 | 59.27 | 9703.7 | AC22bin35/50(a) | 0.621 | 12.43 | 2066.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1393.2 | C31 | 1.255 | 25.10 | 4562.6 |
| 3860.000 | Suelocemento | 3.318 | 66.36 | 12223.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 5765.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 3331.5 | PA11 45/80-65C | 0.591 | 11.83 | 2179.2 |
| | SC (Arc) | 2.965 | 59.30 | 9763.0 | AC22bin35/50(a) | 0.621 | 12.43 | 2078.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1401.5 | C31 | 1.255 | 25.10 | 4587.7 |
| 3880.000 | Suelocemento | 3.318 | 66.36 | 12290.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 5796.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 3349.6 | PA11 45/80-65C | 0.591 | 11.83 | 2191.0 |
| | SC (Arc) | 2.965 | 59.30 | 9822.3 | AC22bin35/50(a) | 0.621 | 12.43 | 2091.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1409.9 | C31 | 1.255 | 25.10 | 4612.8 |
| 3900.000 | Suelocemento | 3.318 | 66.36 | 12356.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 5827.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 3367.8 | PA11 45/80-65C | 0.591 | 11.83 | 2202.9 |
| | SC (Arc) | 2.965 | 59.30 | 9881.6 | AC22bin35/50(a) | 0.621 | 12.43 | 2103.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1418.3 | C31 | 1.255 | 25.10 | 4637.9 |
| 3920.000 | Suelocemento | 3.318 | 66.36 | 12422.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 5858.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 3385.9 | PA11 45/80-65C | 0.591 | 11.83 | 2214.7 |
| | SC (Arc) | 2.965 | 59.30 | 9940.9 | AC22bin35/50(a) | 0.621 | 12.43 | 2116.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1426.6 | C31 | 1.255 | 25.10 | 4663.0 |
| 3940.000 | Suelocemento | 3.318 | 66.36 | 12489.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 5889.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 3404.0 | PA11 45/80-65C | 0.591 | 11.83 | 2226.5 |
| | SC (Arc) | 2.965 | 59.30 | 10000.2 | AC22bin35/50(a) | 0.621 | 12.43 | 2128.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1435.0 | C31 | 1.255 | 25.10 | 4688.1 |
| 3960.000 | Suelocemento | 3.318 | 66.36 | 12555.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 5920.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 3422.1 | PA11 45/80-65C | 0.591 | 11.83 | 2238.4 |
| | SC (Arc) | 2.965 | 59.30 | 10059.5 | AC22bin35/50(a) | 0.621 | 12.43 | 2140.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1443.4 | C31 | 1.255 | 25.10 | 4713.2 |
| 3980.000 | Suelocemento | 3.318 | 66.3 | | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 4220.000 | Suelocemento | 3.318 | 66.36 | 13418.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 6324.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 3657.7 | PA11 45/80-65C | 0.591 | 11.83 | 2392.1 |
| | SC (Arc) | 2.965 | 59.30 | 10830.4 | AC22bin35/50(a) | 0.621 | 12.43 | 2302.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1552.1 | C31 | 1.255 | 25.10 | 5058.5 |
| 4240.000 | Suelocemento | 3.318 | 66.36 | 13484.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 6355.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 3675.8 | PA11 45/80-65C | 0.591 | 11.83 | 2404.0 |
| | SC (Arc) | 2.965 | 59.30 | 10889.7 | AC22bin35/50(a) | 0.621 | 12.43 | 2314.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1560.5 | C31 | 1.255 | 25.10 | 5083.6 |
| 4260.000 | Suelocemento | 3.318 | 66.36 | 13550.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 6386.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 3693.9 | PA11 45/80-65C | 0.591 | 11.83 | 2415.8 |
| | SC (Arc) | 2.965 | 59.30 | 10949.0 | AC22bin35/50(a) | 0.621 | 12.43 | 2327.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1568.9 | C31 | 1.255 | 25.10 | 5108.7 |
| 4280.000 | Suelocemento | 3.318 | 66.36 | 13617.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 6417.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 3712.1 | PA11 45/80-65C | 0.591 | 11.83 | 2427.6 |
| | SC (Arc) | 2.965 | 59.30 | 11008.2 | AC22bin35/50(a) | 0.621 | 12.43 | 2339.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1577.2 | C31 | 1.255 | 25.10 | 5133.8 |
| 4300.000 | Suelocemento | 3.318 | 66.36 | 13683.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 6448.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 3730.2 | PA11 45/80-65C | 0.591 | 11.83 | 2439.5 |
| | SC (Arc) | 2.965 | 59.30 | 11067.5 | AC22bin35/50(a) | 0.621 | 12.43 | 2352.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1585.6 | C31 | 1.255 | 25.10 | 5158.9 |
| 4320.000 | Suelocemento | 3.318 | 66.36 | 13750.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 6479.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 3748.3 | PA11 45/80-65C | 0.591 | 11.83 | 2451.3 |
| | SC (Arc) | 2.965 | 59.30 | 11126.8 | AC22bin35/50(a) | 0.621 | 12.43 | 2364.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1594.0 | C31 | 1.255 | 25.10 | 5184.0 |
| 4340.000 | Suelocemento | 3.318 | 66.36 | 13816.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 6511.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 3766.4 | PA11 45/80-65C | 0.591 | 11.83 | 2463.1 |
| | SC (Arc) | 2.965 | 59.30 | 11186.1 | AC22bin35/50(a) | 0.621 | 12.43 | 2376.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1602.3 | C31 | 1.255 | 25.10 | 5209.1 |
| 4360.000 | Suelocemento | 3.318 | 66.36 | 13882.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 6542.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 3784.6 | PA11 45/80-65C | 0.591 | 11.83 | 2475.0 |
| | SC (Arc) | 2.965 | 59.30 | 11245.4 | AC22bin35/50(a) | 0.621 | 12.43 | 2389.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1610.7 | C31 | 1.255 | 25.10 | 5234.2 |
| 4380.000 | Suelocemento | 3.318 | 66.36 | 13949.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 6573.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 3802.7 | PA11 45/80-65C | 0.591 | 11.83 | 2486.8 |
| | SC (Arc) | 2.965 | 59.30 | 11304.7 | AC22bin35/50(a) | 0.621 | 12.43 | 2401.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1619.1 | C31 | 1.255 | 25.10 | 5259.3 |
| 4400.000 | Suelocemento | 3.318 | 66.36 | 14015.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 6604.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 3820.8 | PA11 45/80-65C | 0.591 | 11.83 | 2498.6 |
| | SC (Arc) | 2.965 | 59.30 | 11364.0 | AC22bin35/50(a) | 0.621 | 12.43 | 2414.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1627.4 | C31 | 1.255 | 25.10 | 5284.4 |
| 4420.000 | Suelocemento | 3.318 | 66.36 | 14081.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 6635.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 3838.9 | PA11 45/80-65C | 0.591 | 11.83 | 2510.4 |
| | SC (Arc) | 2.965 | 59.30 | 11423.3 | AC22bin35/50(a) | 0.621 | 12.43 | 2426.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1635.8 | C31 | 1.255 | 25.10 | 5309.5 |
| 4440.000 | Suelocemento | 3.318 | 66.36 | 14148.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 6666.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 3857.0 | PA11 45/80-65C | 0.591 | 11.83 | 2522.3 |
| | SC (Arc) | 2.965 | 59.30 | 11482.6 | AC22bin35/50(a) | 0.621 | 12.43 | 2439.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1644.2 | C31 | 1.255 | 25.10 | 5334.6 |
| 4460.000 | Suelocemento | 3.318 | 66.36 | 14214.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 6697.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 3875.2 | PA11 45/80-65C | 0.591 | 11.83 | 2534.1 |
| | SC (Arc) | 2.965 | 59.30 | 11541.9 | AC22bin35/50(a) | 0.621 | 12.43 | 2451.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1652.5 | C31 | 1.255 | 25.10 | 5359.7 |
| 4480.000 | Suelocemento | 3.318 | 66.36 | 14280.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 6728.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 3893.3 | PA11 45/80-65C | 0.591 | 11.83 | 2545.9 |
| | SC (Arc) | 2.965 | 59.30 | 11601.2 | AC22bin35/50(a) | 0.621 | 12.43 | 2463.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1660.9 | C31 | 1.549 | 28.92 | 5388.6 |
| 4500.000 | Suelocemento | 3.318 | 66.36 | 14347.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 6759.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 3911.4 | PA11 45/80-65C | 0.591 | 11.83 | 2557.8 |
| | SC (Arc) | 2.965 | 59.30 | 11660.5 | AC22bin35/50(a) | 0.621 | 12.43 | 2476.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1669.3 | C31 | 1.549 | 37.28 | 5425.9 |
| 4520.000 | Suelocemento | 3.318 | 66.36 | 14413.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 6790.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 3929.5 | PA11 45/80-65C | 0.591 | 11.83 | 2569.6 |
| | SC (Arc) | 2.965 | 59.30 | 11719.8 | AC22bin35/50(a) | 0.621 | 12.43 | 2488.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1677.6 | C31 | 1.549 | 30.98 | 5456.9 |
| 4540.000 | Suelocemento | 3.318 | 66.36 | 14480.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 6821.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 3947.6 | PA11 45/80-65C | 0.591 | 11.83 | 2581.4 |
| | SC (Arc) | 2.965 | 59.30 | 11779.1 | AC22bin35/50(a) | 0.621 | 12.43 | 2501.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1686.0 | C31 | 1.549 | 30.98 | 5487.9 |
| 4560.000 | Suelocemento | 3.318 | 66.36 | 14546.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 6852.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 3965.8 | PA11 45/80-65C | 0.591 | 11.83 | 2593.3 |
| | SC (Arc) | 2.965 | 59.30 | 11838.4 | AC22bin35/50(a) | 0.621 | 12.43 | 2513.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1694.4 | C31 | 1.549 | 30.98 | 5518.8 |
| 4580.000 | Suelocemento | 3.318 | 66.36 | 14612.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 6884.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 3983.9 | PA11 45/80-65C | 0.591 | 11.83 | 2605.1 |
| | SC (Arc) | 2.965 | 59.30 | 11897.7 | AC22bin35/50(a) | 0.621 | 12.43 | 2526.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1702.7 | C31 | 1.549 | 30.98 | 5549.8 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 4600.000 | Suelocemento | 3.318 | 49.77 | 14662.4 | AC32bas35/50G 2 | 1.554 | 23.31 | 6907.3 |
| | AC22bin35/50S | 0.906 | 13.59 | 3997.5 | PA11 45/80-65C | 0.592 | 8.87 | 2614.0 |
| | SC (Arc) | 2.961 | 44.44 | 11942.1 | AC22bin35/50(a) | 0.621 | 9.32 | 2535.4 |
| | PA1145/80-65(a) | 0.418 | 6.27 | 1709.0 | C31 | 0.910 | 16.71 | 5566.5 |
| 4620.000 | Suelocemento | 3.318 | 66.36 | 14728.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 6938.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 4015.6 | PA11 45/80-65C | 0.592 | 11.83 | 2625.8 |
| | SC (Arc) | 2.965 | 59.26 | 12001.4 | AC22bin35/50(a) | 0.621 | 12.43 | 2547.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1717.4 | C31 | 1.549 | 28.90 | 5595.4 |
| 4640.000 | Suelocemento | 3.318 | 66.36 | 14795.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 6969.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 4033.7 | PA11 45/80-65C | 0.591 | 11.83 | 2637.6 |
| | SC (Arc) | 2.965 | 59.30 | 12060.7 | AC22bin35/50(a) | 0.621 | 12.43 | 2560.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1725.8 | C31 | 1.549 | 30.98 | 5626.4 |
| 4660.000 | Suelocemento | 3.318 | 66.36 | 14861.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 7000.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 4051.8 | PA11 45/80-65C | 0.591 | 11.83 | 2649.4 |
| | SC (Arc) | 2.965 | 59.30 | 12120.0 | AC22bin35/50(a) | 0.621 | 12.43 | 2572.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1734.1 | C31 | 1.549 | 30.98 | 5657.4 |
| 4680.000 | Suelocemento | 3.318 | 66.36 | 14927.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 7031.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 4070.0 | PA11 45/80-65C | 0.591 | 11.83 | 2661.3 |
| | SC (Arc) | 2.965 | 59.30 | 12179.3 | AC22bin35/50(a) | 0.621 | 12.43 | 2585.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1742.5 | C31 | 1.549 | 30.98 | 5688.4 |
| 4700.000 | Suelocemento | 3.318 | 66.36 | 14994.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 7062.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 4088.1 | PA11 45/80-65C | 0.591 | 11.83 | 2673.1 |
| | SC (Arc) | 2.965 | 59.30 | 12238.6 | AC22bin35/50(a) | 0.621 | 12.43 | 2597.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1750.9 | C31 | 1.255 | 27.46 | 5715.8 |
| 4720.000 | Suelocemento | 3.318 | 66.36 | 15060.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 7093.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 4106.2 | PA11 45/80-65C | 0.591 | 11.83 | 2684.9 |
| | SC (Arc) | 2.965 | 59.30 | 12297.9 | AC22bin35/50(a) | 0.621 | 12.43 | 2609.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 1759.2 | C31 | 1.255 | 25.10 | 5740.9 |
| 4740.000 | Suelocemento | 3.318 | | | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
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Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|------------------|-------------|--------------|--------------|------------------|-------------|--------------|--------------|
| 4980.000 | Suelocemento | 3.882 | 75.30 | 15941.4 | AC32bas35/50G 2 | 1.836 | 35.55 | 7511.5 |
| | AC22bin35/50S | 1.075 | 20.80 | 4330.2 | PA11 45/80-65C | 0.704 | 13.62 | 2831.2 |
| | SC (Arc) | 2.965 | 59.30 | 12924.6 | AC22bin35/50 (a) | 0.621 | 12.43 | 2761.2 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1861.1 | C31 | 1.549 | 30.99 | 6050.0 |
| 5000.000 | Suelocemento | 4.118 | 80.00 | 16021.4 | AC32bas35/50G 2 | 1.954 | 37.90 | 7549.4 |
| | AC22bin35/50S | 1.146 | 22.21 | 4352.4 | PA11 45/80-65C | 0.751 | 14.56 | 2845.8 |
| | SC (Arc) | 2.965 | 59.30 | 12983.9 | AC22bin35/50 (a) | 0.621 | 12.43 | 2773.6 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1869.5 | C31 | 1.549 | 39.18 | 6089.2 |
| 5020.000 | Suelocemento | 4.353 | 84.70 | 16106.1 | AC32bas35/50G 2 | 2.071 | 40.25 | 7589.6 |
| | AC22bin35/50S | 1.217 | 23.62 | 4376.0 | PA11 45/80-65C | 0.798 | 15.50 | 2861.3 |
| | SC (Arc) | 2.965 | 59.30 | 13043.2 | AC22bin35/50 (a) | 0.621 | 12.43 | 2786.0 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1877.8 | C31 | 1.549 | 30.99 | 6120.2 |
| 5040.000 | Suelocemento | 4.588 | 89.41 | 16195.5 | AC32bas35/50G 2 | 2.189 | 42.61 | 7632.2 |
| | AC22bin35/50S | 1.287 | 25.04 | 4401.0 | PA11 45/80-65C | 0.846 | 16.44 | 2877.7 |
| | SC (Arc) | 2.965 | 59.30 | 13102.5 | AC22bin35/50 (a) | 0.621 | 12.43 | 2798.5 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1886.2 | C31 | 1.549 | 30.99 | 6151.2 |
| 5060.000 | Suelocemento | 4.765 | 93.82 | 16289.3 | AC32bas35/50G 2 | 2.277 | 44.81 | 7677.1 |
| | AC22bin35/50S | 1.340 | 26.36 | 4427.4 | PA11 45/80-65C | 0.881 | 17.32 | 2895.0 |
| | SC (Arc) | 2.965 | 59.30 | 13161.8 | AC22bin35/50 (a) | 0.621 | 12.43 | 2810.9 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1894.6 | C31 | 1.549 | 30.99 | 6182.1 |
| 5080.000 | Suelocemento | 4.789 | 95.72 | 16385.1 | AC32bas35/50G 2 | 2.289 | 45.76 | 7722.8 |
| | AC22bin35/50S | 1.347 | 26.93 | 4454.3 | PA11 45/80-65C | 0.886 | 17.70 | 2912.7 |
| | SC (Arc) | 2.965 | 59.30 | 13221.1 | AC22bin35/50 (a) | 0.621 | 12.43 | 2823.3 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1902.9 | C31 | 1.549 | 30.99 | 6213.1 |
| 5100.000 | Suelocemento | 4.789 | 95.78 | 16480.9 | AC32bas35/50G 2 | 2.290 | 45.79 | 7768.6 |
| | AC22bin35/50S | 1.347 | 26.95 | 4481.3 | PA11 45/80-65C | 0.886 | 17.71 | 2930.4 |
| | SC (Arc) | 2.965 | 59.30 | 13280.4 | AC22bin35/50 (a) | 0.621 | 12.43 | 2835.7 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1911.3 | C31 | 1.549 | 30.99 | 6244.1 |
| 5120.000 | Suelocemento | 4.790 | 95.79 | 16576.6 | AC32bas35/50G 2 | 2.290 | 45.79 | 7814.4 |
| | AC22bin35/50S | 1.348 | 26.95 | 4508.2 | PA11 45/80-65C | 0.886 | 17.72 | 2948.1 |
| | SC (Arc) | 2.965 | 59.30 | 13339.7 | AC22bin35/50 (a) | 0.621 | 12.43 | 2848.2 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1919.7 | C31 | 1.549 | 30.99 | 6275.1 |
| 5140.000 | Suelocemento | 4.790 | 95.80 | 16672.4 | AC32bas35/50G 2 | 2.290 | 45.80 | 7860.2 |
| | AC22bin35/50S | 1.348 | 26.95 | 4535.2 | PA11 45/80-65C | 0.886 | 17.72 | 2965.9 |
| | SC (Arc) | 2.965 | 59.30 | 13399.0 | AC22bin35/50 (a) | 0.621 | 12.43 | 2860.6 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1928.0 | C31 | 1.402 | 30.62 | 6305.7 |
| 5160.000 | Suelocemento | 4.791 | 95.81 | 16768.3 | AC32bas35/50G 2 | 2.290 | 45.80 | 7906.0 |
| | AC22bin35/50S | 1.348 | 26.96 | 4562.1 | PA11 45/80-65C | 0.886 | 17.72 | 2983.6 |
| | SC (Arc) | 2.965 | 59.30 | 13458.3 | AC22bin35/50 (a) | 0.621 | 12.43 | 2873.0 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1936.4 | C31 | 1.256 | 25.48 | 6331.2 |
| 5180.000 | Suelocemento | 4.794 | 95.82 | 16864.1 | AC32bas35/50G 2 | 2.292 | 45.81 | 7951.8 |
| | AC22bin35/50S | 1.349 | 26.96 | 4589.1 | PA11 45/80-65C | 0.887 | 17.72 | 3001.3 |
| | SC (Arc) | 2.965 | 59.30 | 13517.6 | AC22bin35/50 (a) | 0.621 | 12.43 | 2885.4 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1944.8 | C31 | 1.255 | 25.11 | 6356.3 |
| 5200.000 | Suelocemento | 4.911 | 96.73 | 16960.8 | AC32bas35/50G 2 | 2.350 | 46.26 | 7998.1 |
| | AC22bin35/50S | 1.384 | 27.23 | 4616.3 | PA11 45/80-65C | 0.910 | 17.90 | 3019.2 |
| | SC (Arc) | 2.965 | 59.30 | 13576.9 | AC22bin35/50 (a) | 0.621 | 12.43 | 2897.9 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 1953.1 | C31 | 1.255 | 25.11 | 6381.4 |
| 5220.000 | Suelocemento | 5.273 | 101.61 | 17062.4 | AC32bas35/50G 2 | 2.531 | 48.71 | 8046.8 |
| | AC22bin35/50S | 1.493 | 28.70 | 4645.0 | PA11 45/80-65C | 0.982 | 18.88 | 3038.1 |
| | SC (Arc) | 2.958 | 59.23 | 13636.1 | AC22bin35/50 (a) | 0.610 | 12.36 | 2910.2 |
| | PA1145/80-65 (a) | 0.407 | 8.26 | 1961.4 | C31 | 1.279 | 25.28 | 6406.7 |
| 5240.000 | Suelocemento | 4.053 | 106.88 | 17169.3 | AC32bas35/50G 2 | 1.921 | 51.34 | 8098.1 |
| | AC22bin35/50S | 1.127 | 30.28 | 4675.3 | PA11 45/80-65C | 0.738 | 19.93 | 3058.0 |
| | SC (Arc) | 2.917 | 58.81 | 13694.9 | AC22bin35/50 (a) | 0.595 | 12.06 | 2922.3 |
| | PA1145/80-65 (a) | 0.397 | 8.04 | 1969.4 | C31 | 0.926 | 23.98 | 6430.7 |
| 5260.000 | Suelocemento | 4.053 | 81.07 | 17250.4 | AC32bas35/50G 2 | 1.921 | 38.44 | 8136.6 |
| | AC22bin35/50S | 1.127 | 22.54 | 4697.8 | PA11 45/80-65C | 0.738 | 14.77 | 3072.8 |
| | SC (Arc) | 2.856 | 57.74 | 13752.7 | AC22bin35/50 (a) | 0.584 | 11.79 | 2934.1 |
| | PA1145/80-65 (a) | 0.389 | 7.86 | 1977.3 | C31 | 1.002 | 19.28 | 6450.0 |
| 5280.000 | Suelocemento | 4.053 | 81.07 | 17331.4 | AC32bas35/50G 2 | 1.921 | 38.44 | 8175.0 |
| | AC22bin35/50S | 1.127 | 22.53 | 4720.4 | PA11 45/80-65C | 0.738 | 14.77 | 3087.6 |
| | SC (Arc) | 2.816 | 56.72 | 13809.4 | AC22bin35/50 (a) | 0.576 | 11.61 | 2945.7 |
| | PA1145/80-65 (a) | 0.384 | 7.74 | 1985.0 | C31 | 1.053 | 20.54 | 6470.5 |
| 5300.000 | Suelocemento | 4.053 | 81.08 | 17412.5 | AC32bas35/50G 2 | 1.921 | 38.44 | 8213.4 |
| | AC22bin35/50S | 1.126 | 22.53 | 4742.9 | PA11 45/80-65C | 0.739 | 14.77 | 3102.3 |
| | SC (Arc) | 2.794 | 56.09 | 13865.5 | AC22bin35/50 (a) | 0.572 | 11.49 | 2957.2 |
| | PA1145/80-65 (a) | 0.382 | 7.66 | 1992.7 | C31 | 1.078 | 21.33 | 6491.8 |
| 5320.000 | Suelocemento | 0.000 | 1.47 | 17414.0 | AC32bas35/50G 2 | 0.000 | 0.70 | 8214.1 |
| | AC22bin35/50S | 0.000 | 0.41 | 4743.3 | PA11 45/80-65C | 0.000 | 0.27 | 3102.6 |
| | SC (Arc) | 0.004 | 1.08 | 13866.5 | AC22bin35/50 (a) | 0.000 | 0.21 | 2957.4 |
| | PA1145/80-65 (a) | 0.000 | 0.14 | 1992.8 | C31 | 0.004 | 0.46 | 6492.3 |
| 5340.000 | SC (Arc) | 0.004 | 0.07 | 13866.6 | C31 | 0.004 | 0.07 | 6492.4 |
| 5360.000 | SC (Arc) | 0.003 | 0.07 | 13866.7 | C31 | 0.003 | 0.07 | 6492.4 |
| 5380.000 | SC (Arc) | 0.003 | 0.06 | 13866.8 | C31 | 0.003 | 0.07 | 6492.5 |
| 5400.000 | SC (Arc) | 0.003 | 0.06 | 13866.8 | C31 | 0.003 | 0.07 | 6492.6 |
| 5420.000 | SC (Arc) | 0.003 | 0.06 | 13866.9 | C31 | 0.004 | 0.07 | 6492.6 |
| 5440.000 | SC (Arc) | 0.003 | 0.06 | 13866.9 | C31 | 0.003 | 0.07 | 6492.7 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|------------------|-------------|--------------|--------------|------------------|-------------|--------------|--------------|
| 5460.000 | Suelocemento | 4.053 | 44.35 | 17458.3 | AC32bas35/50G 2 | 1.922 | 21.03 | 8235.2 |
| | AC22bin35/50S | 1.126 | 12.32 | 4755.6 | PA11 45/80-65C | 0.739 | 8.08 | 3110.7 |
| | SC (Arc) | 2.823 | 30.79 | 13897.7 | AC22bin35/50 (a) | 0.578 | 6.30 | 2963.7 |
| | PA1145/80-65 (a) | 0.386 | 4.21 | 1997.0 | C31 | 1.040 | 11.52 | 6504.2 |
| 5480.000 | Suelocemento | 4.053 | 81.07 | 17539.4 | AC32bas35/50G 2 | 1.922 | 38.43 | 8273.6 |
| | AC22bin35/50S | 1.127 | 22.53 | 4778.2 | PA11 45/80-65C | 0.739 | 14.77 | 3125.5 |
| | SC (Arc) | 2.885 | 57.06 | 13954.8 | AC22bin35/50 (a) | 0.590 | 11.68 | 2975.4 |
| | PA1145/80-65 (a) | 0.393 | 7.79 | 2004.8 | C31 | 0.964 | 20.05 | 6524.3 |
| 5500.000 | Suelocemento | 4.059 | 81.09 | 17620.5 | AC32bas35/50G 2 | 1.924 | 38.45 | 8312.0 |
| | AC22bin35/50S | 1.128 | 22.54 | 4800.7 | PA11 45/80-65C | 0.740 | 14.78 | 3140.2 |
| | SC (Arc) | 2.941 | 58.30 | 14013.1 | AC22bin35/50 (a) | 0.601 | 11.90 | 2987.3 |
| | PA1145/80-65 (a) | 0.401 | 7.94 | 2012.8 | C31 | 0.895 | 18.56 | 6542.8 |
| 5520.000 | Suelocemento | 4.092 | 81.45 | 17701.9 | AC32bas35/50G 2 | 1.941 | 38.62 | 8350.6 |
| | AC22bin35/50S | 1.138 | 22.65 | 4823.4 | PA11 45/80-65C | 0.746 | 14.85 | 3155.1 |
| | SC (Arc) | 2.964 | 59.10 | 14072.2 | AC22bin35/50 (a) | 0.612 | 12.13 | 2999.4 |
| | PA1145/80-65 (a) | 0.408 | 8.09 | 2020.9 | C31 | 0.856 | 17.46 | 6560.3 |
| 5540.000 | Suelocemento | 4.159 | 82.46 | 17784.4 | AC32bas35/50G 2 | 1.975 | 39.13 | 8389.8 |
| | AC22bin35/50S | 1.158 | 22.95 | 4846.3 | PA11 45/80-65C | 0.760 | 15.05 | 3170.1 |
| | SC (Arc) | 2.968 | 59.31 | 14131.5 | AC22bin35/50 (a) | 0.621 | 12.34 | 3011.7 |
| | PA1145/80-65 (a) | 0.416 | 8.24 | 2029.1 | C31 | 0.840 | 16.95 | 6577.3 |
| 5560.000 | Suelocemento | 4.240 | 84.03 | 17868.4 | AC32bas35/50G 2 | 2.015 | 39.91 | 8429.7 |
| | AC22bin35/50S | 1.183 | 23.42 | 4869.7 | PA11 45/80-65C | 0.776 | 15.36 | 3185.5 |
| | SC (Arc) | 2.961 | 59.34 | 14190.9 | AC22bin35/50 (a) | 0.621 | 12.42 | 3024.2 |
| | PA1145/80-65 (a) | 0.419 | 8.36 | 2037.5 | C31 | 0.837 | 16.75 | 6594.0 |
| 5580.000 | Suelocemento | 4.337 | 85.72 | 17954.1 | AC32bas35/50G 2 | 2.063 | 40.76 | 8470.4 |
| | AC22bin35/50S | 1.212 | 23.93 | 4893.7 | PA11 45/80-65C</ | | | |

Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 5840.000 | Suelocemento | 3.318 | 66.37 | 18896.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 8914.2 |
| | AC22bin35/50S | 0.906 | 18.13 | 5153.1 | PA11 45/80-65C | 0.592 | 11.84 | 3370.9 |
| | SC (Arc) | 3.010 | 60.21 | 15028.1 | AC22bin35/50(a) | 0.621 | 12.42 | 3198.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2154.7 | C31 | 0.839 | 16.79 | 6831.3 |
| 5860.000 | Suelocemento | 0.000 | 49.80 | 18946.0 | AC32bas35/50G 2 | 0.000 | 23.32 | 8937.5 |
| | AC22bin35/50S | 0.000 | 13.60 | 5166.7 | PA11 45/80-65C | 0.000 | 8.88 | 3379.8 |
| | SC (Arc) | 0.010 | 45.22 | 15073.3 | AC22bin35/50(a) | 0.000 | 9.32 | 3207.4 |
| | PA1145/80-65(a) | 0.000 | 6.28 | 2160.9 | C31 | 0.010 | 12.64 | 6844.0 |
| 5880.000 | SC (Arc) | 0.010 | 0.20 | 15073.5 | C31 | 0.010 | 0.20 | 6844.2 |
| 5900.000 | SC (Arc) | 0.010 | 0.20 | 15073.7 | C31 | 0.010 | 0.20 | 6844.4 |
| 5920.000 | SC (Arc) | 0.010 | 0.20 | 15073.9 | C31 | 0.010 | 0.20 | 6844.6 |
| 5940.000 | Suelocemento | 3.318 | 26.53 | 18972.5 | AC32bas35/50G 2 | 1.554 | 12.42 | 8949.9 |
| | AC22bin35/50S | 0.906 | 7.25 | 5173.9 | PA11 45/80-65C | 0.592 | 4.73 | 3384.5 |
| | SC (Arc) | 3.006 | 24.15 | 15098.1 | AC22bin35/50(a) | 0.621 | 4.97 | 3212.4 |
| | PA1145/80-65(a) | 0.418 | 3.34 | 2164.3 | C31 | 1.258 | 10.18 | 6854.7 |
| 5960.000 | Suelocemento | 3.318 | 66.37 | 19038.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 8981.0 |
| | AC22bin35/50S | 0.906 | 18.13 | 5192.1 | PA11 45/80-65C | 0.592 | 11.84 | 3396.3 |
| | SC (Arc) | 3.006 | 60.12 | 15158.2 | AC22bin35/50(a) | 0.621 | 12.42 | 3224.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2172.6 | C31 | 1.258 | 25.17 | 6879.9 |
| 5980.000 | Suelocemento | 3.318 | 66.37 | 19105.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 9012.1 |
| | AC22bin35/50S | 0.906 | 18.13 | 5210.2 | PA11 45/80-65C | 0.592 | 11.84 | 3408.2 |
| | SC (Arc) | 3.006 | 60.12 | 15218.3 | AC22bin35/50(a) | 0.621 | 12.42 | 3237.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2181.0 | C31 | 1.258 | 25.16 | 6905.1 |
| 6000.000 | Suelocemento | 0.000 | 61.79 | 19167.1 | AC32bas35/50G 2 | 0.000 | 28.94 | 9041.0 |
| | AC22bin35/50S | 0.000 | 16.88 | 5227.1 | PA11 45/80-65C | 0.000 | 11.02 | 3419.2 |
| | SC (Arc) | 0.010 | 55.98 | 15274.3 | AC22bin35/50(a) | 0.000 | 11.57 | 3248.8 |
| | PA1145/80-65(a) | 0.000 | 7.79 | 2188.8 | C31 | 0.010 | 29.17 | 6934.2 |
| 6020.000 | SC (Arc) | 0.010 | 0.20 | 15274.5 | C31 | 0.010 | 0.20 | 6934.4 |
| 6040.000 | SC (Arc) | 0.010 | 0.20 | 15274.7 | C31 | 0.010 | 0.20 | 6934.6 |
| 6060.000 | SC (Arc) | 0.010 | 0.20 | 15274.9 | C31 | 0.010 | 0.20 | 6934.8 |
| 6080.000 | Suelocemento | 3.318 | 14.53 | 19181.6 | AC32bas35/50G 2 | 1.554 | 6.81 | 9047.8 |
| | AC22bin35/50S | 0.906 | 3.97 | 5231.0 | PA11 45/80-65C | 0.592 | 2.59 | 3421.8 |
| | SC (Arc) | 3.010 | 13.34 | 15288.2 | AC22bin35/50(a) | 0.621 | 2.72 | 3251.5 |
| | PA1145/80-65(a) | 0.418 | 1.83 | 2190.6 | C31 | 0.996 | 4.51 | 6939.3 |
| 6100.000 | Suelocemento | 3.319 | 66.37 | 19248.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 9078.9 |
| | AC22bin35/50S | 0.906 | 18.13 | 5249.2 | PA11 45/80-65C | 0.592 | 11.84 | 3433.6 |
| | SC (Arc) | 3.010 | 60.21 | 15348.4 | AC22bin35/50(a) | 0.621 | 12.42 | 3263.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2199.0 | C31 | 1.193 | 23.44 | 6962.8 |
| 6120.000 | Suelocemento | 3.318 | 66.37 | 19314.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 9110.0 |
| | AC22bin35/50S | 0.906 | 18.13 | 5267.3 | PA11 45/80-65C | 0.592 | 11.84 | 3445.5 |
| | SC (Arc) | 3.010 | 60.21 | 15408.6 | AC22bin35/50(a) | 0.621 | 12.42 | 3276.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2207.4 | C31 | 1.115 | 22.99 | 6985.8 |
| 6140.000 | Suelocemento | 3.318 | 66.37 | 19380.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 9141.1 |
| | AC22bin35/50S | 0.906 | 18.13 | 5285.4 | PA11 45/80-65C | 0.592 | 11.84 | 3457.3 |
| | SC (Arc) | 3.010 | 60.21 | 15468.8 | AC22bin35/50(a) | 0.621 | 12.42 | 3288.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2215.7 | C31 | 0.995 | 21.44 | 7007.2 |
| 6160.000 | Suelocemento | 3.318 | 66.37 | 19447.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 9172.1 |
| | AC22bin35/50S | 0.906 | 18.13 | 5303.5 | PA11 45/80-65C | 0.592 | 11.84 | 3469.1 |
| | SC (Arc) | 3.011 | 60.21 | 15529.0 | AC22bin35/50(a) | 0.621 | 12.42 | 3301.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2224.1 | C31 | 0.995 | 19.90 | 7027.1 |
| 6180.000 | Suelocemento | 3.318 | 66.37 | 19513.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 9203.2 |
| | AC22bin35/50S | 0.906 | 18.13 | 5321.7 | PA11 45/80-65C | 0.592 | 11.84 | 3481.0 |
| | SC (Arc) | 3.011 | 60.21 | 15589.3 | AC22bin35/50(a) | 0.621 | 12.42 | 3313.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2232.5 | C31 | 0.995 | 19.90 | 7047.0 |
| 6200.000 | Suelocemento | 3.318 | 66.37 | 19579.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 9234.3 |
| | AC22bin35/50S | 0.906 | 18.13 | 5339.8 | PA11 45/80-65C | 0.592 | 11.84 | 3492.8 |
| | SC (Arc) | 3.010 | 60.21 | 15649.5 | AC22bin35/50(a) | 0.621 | 12.42 | 3326.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2240.8 | C31 | 0.995 | 19.90 | 7066.9 |
| 6220.000 | Suelocemento | 0.308 | 60.40 | 19640.2 | AC32bas35/50G 2 | 0.128 | 28.29 | 9262.6 |
| | AC22bin35/50S | 0.069 | 16.50 | 5356.3 | PA11 45/80-65C | 0.042 | 10.78 | 3503.6 |
| | SC (Arc) | 0.852 | 54.39 | 15703.9 | AC22bin35/50(a) | 0.158 | 11.23 | 3337.2 |
| | PA1145/80-65(a) | 0.105 | 7.57 | 2248.4 | C31 | 0.209 | 15.76 | 7082.7 |
| 6240.000 | Suelocemento | 4.959 | 19.46 | 19659.7 | AC32bas35/50G 2 | 2.374 | 9.26 | 9271.9 |
| | AC22bin35/50S | 1.398 | 5.44 | 5361.7 | PA11 45/80-65C | 0.920 | 3.57 | 3507.2 |
| | SC (Arc) | 3.003 | 13.96 | 15717.8 | AC22bin35/50(a) | 0.621 | 2.84 | 3340.1 |
| | PA1145/80-65(a) | 0.418 | 1.91 | 2250.3 | C31 | 0.921 | 6.07 | 7088.8 |
| 6260.000 | Suelocemento | 4.715 | 96.70 | 19756.4 | AC32bas35/50G 2 | 2.252 | 46.25 | 9318.1 |
| | AC22bin35/50S | 1.325 | 27.22 | 5389.0 | PA11 45/80-65C | 0.871 | 17.91 | 3525.1 |
| | SC (Arc) | 3.006 | 60.16 | 15778.0 | AC22bin35/50(a) | 0.621 | 12.42 | 3352.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2258.7 | C31 | 1.553 | 25.32 | 7114.1 |
| 6280.000 | Suelocemento | 4.507 | 92.16 | 19848.5 | AC32bas35/50G 2 | 2.148 | 43.98 | 9362.1 |
| | AC22bin35/50S | 1.263 | 25.86 | 5414.8 | PA11 45/80-65C | 0.830 | 17.00 | 3542.1 |
| | SC (Arc) | 3.006 | 60.12 | 15838.1 | AC22bin35/50(a) | 0.621 | 12.42 | 3364.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2267.1 | C31 | 1.258 | 27.81 | 7141.9 |
| 6300.000 | Suelocemento | 4.340 | 88.40 | 19936.9 | AC32bas35/50G 2 | 2.065 | 42.10 | 9404.2 |
| | AC22bin35/50S | 1.213 | 24.73 | 5439.6 | PA11 45/80-65C | 0.796 | 16.25 | 3558.3 |
| | SC (Arc) | 3.006 | 60.12 | 15898.2 | AC22bin35/50(a) | 0.621 | 12.42 | 3377.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2275.4 | C31 | 1.259 | 25.17 | 7167.1 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 6320.000 | Suelocemento | 5.798 | 115.30 | 20052.2 | AC32bas35/50G 2 | 2.794 | 55.55 | 9459.7 |
| | AC22bin35/50S | 1.650 | 32.81 | 5472.4 | PA11 45/80-65C | 1.088 | 21.62 | 3379.9 |
| | SC (Arc) | 3.006 | 60.12 | 15958.3 | AC22bin35/50(a) | 0.621 | 12.42 | 3389.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2283.8 | C31 | 1.258 | 25.17 | 7192.2 |
| 6340.000 | Suelocemento | 5.482 | 112.71 | 20164.9 | AC32bas35/50G 2 | 2.636 | 54.25 | 9514.0 |
| | AC22bin35/50S | 1.555 | 32.03 | 5504.4 | PA11 45/80-65C | 1.024 | 21.10 | 3601.0 |
| | SC (Arc) | 3.006 | 60.12 | 16018.4 | AC22bin35/50(a) | 0.621 | 12.42 | 3402.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2292.2 | C31 | 1.258 | 25.17 | 7217.4 |
| 6360.000 | Suelocemento | 5.226 | 106.96 | 20271.9 | AC32bas35/50G 2 | 2.508 | 51.38 | 9565.4 |
| | AC22bin35/50S | 1.479 | 30.31 | 5534.7 | PA11 45/80-65C | 0.973 | 19.95 | 3621.0 |
| | SC (Arc) | 3.006 | 60.12 | 16078.5 | AC22bin35/50(a) | 0.621 | 12.42 | 3414.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2300.5 | C31 | 1.259 | 25.17 | 7242.6 |
| 6380.000 | Suelocemento | 5.038 | 102.53 | 20374.4 | AC32bas35/50G 2 | 2.414 | 49.16 | 9614.5 |
| | AC22bin35/50S | 1.422 | 28.98 | 5563.7 | PA11 45/80-65C | 0.936 | 19.07 | 3640.0 |
| | SC (Arc) | 3.006 | 60.12 | 16138.7 | AC22bin35/50(a) | 0.621 | 12.42 | 3427.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2308.9 | C31 | 1.258 | 25.17 | 7267.7 |
| 6400.000 | Suelocemento | 4.910 | 99.39 | 20473.8 | AC32bas35/50G 2 | 2.350 | 47.59 | 9662.1 |
| | AC22bin35/50S | 1.384 | 28.03 | 5591.7 | PA11 45/80-65C | 0.910 | 18.44 | 3658.5 |
| | SC (Arc) | 3.006 | 60.12 | 16198.8 | AC22bin35/50(a) | 0.621 | 12.42 | 3439.5 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 2317.3 | C31 | 1.258 | 25.17 | 7292.9 |
| 6420.000 | Suelocemento | 4.831 | 97.34 | 20571.2 | AC32bas35/50G 2 | 2.310 | 46.57 | 9708.7 |
| | AC22bin35/50S | 1.360 | 27.42 | 5619.1 | PA11 45/80-65C | 0.894 | 18.03 | 3676.5 |
| | SC (Arc) | 3.006 | 60.12 | 16258.9 | AC22bin35/50(a) | 0.621 | 12.42 | 3451.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2325.6 | C31 | 2.099 | 31.47 | 7324.4 |
| 6440.000 | Suelocemento | 4.795 | 96.19 | 20667.3 | AC32bas35/50G 2 | 2.292 | 45.99 | 9754.7 |
| | AC22bin35/50S | 1.349 | 27.08 | 5646.2 | PA11 45/80-65C | 0.887 | 17.80 | 3694.3 |
| | SC (Arc) | 3.006 | 60.12 | 16319.0 | | | | |

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 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.11.11.15 21/11/22 10:31:52 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 6700.000 | Suelocemento | 4.788 | 95.77 | 21888.4 | AC32bas35/50G 2 | 2.289 | 45.78 | 10338.4 |
| | AC22bin35/50S | 1.347 | 26.95 | 5989.8 | PA11 45/80-65C | 0.886 | 17.72 | 3920.2 |
| | SC (Arc) | 3.006 | 60.12 | 17085.7 | AC22bin35/50(a) | 0.621 | 12.42 | 3622.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2440.7 | C31 | 1.258 | 25.17 | 7663.9 |
| 6720.000 | Suelocemento | 5.732 | 100.49 | 21988.9 | AC32bas35/50G 2 | 2.783 | 48.25 | 10386.7 |
| | AC22bin35/50S | 1.347 | 26.95 | 6016.7 | PA11 45/80-65C | 0.886 | 17.71 | 3937.9 |
| | SC (Arc) | 1.569 | 52.94 | 17138.6 | AC22bin35/50(a) | 0.621 | 12.42 | 3635.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2449.1 | C31 | 1.258 | 25.17 | 7689.1 |
| 6740.000 | Suelocemento | 5.732 | 114.64 | 22103.6 | AC32bas35/50G 2 | 2.783 | 55.65 | 10442.3 |
| | AC22bin35/50S | 1.347 | 26.94 | 6043.7 | PA11 45/80-65C | 0.886 | 17.71 | 3955.6 |
| | SC (Arc) | 1.569 | 31.38 | 17170.0 | AC22bin35/50(a) | 0.621 | 12.42 | 3647.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2457.4 | C31 | 1.258 | 25.17 | 7714.2 |
| 6760.000 | Suelocemento | 5.732 | 114.64 | 22218.2 | AC32bas35/50G 2 | 2.783 | 55.65 | 10498.0 |
| | AC22bin35/50S | 1.347 | 26.94 | 6070.6 | PA11 45/80-65C | 0.886 | 17.71 | 3973.3 |
| | SC (Arc) | 1.569 | 31.38 | 17201.4 | AC22bin35/50(a) | 0.621 | 12.43 | 3660.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2465.8 | C31 | 1.258 | 25.17 | 7739.4 |
| 6780.000 | Suelocemento | 5.732 | 114.64 | 22332.8 | AC32bas35/50G 2 | 2.783 | 55.65 | 10553.6 |
| | AC22bin35/50S | 1.347 | 26.94 | 6097.6 | PA11 45/80-65C | 0.886 | 17.71 | 3991.1 |
| | SC (Arc) | 1.569 | 31.38 | 17232.7 | AC22bin35/50(a) | 0.621 | 12.43 | 3672.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2474.2 | C31 | 1.258 | 25.17 | 7764.6 |
| 6800.000 | Suelocemento | 4.788 | 97.18 | 22430.0 | AC32bas35/50G 2 | 2.289 | 46.52 | 10600.1 |
| | AC22bin35/50S | 1.347 | 26.95 | 6124.5 | PA11 45/80-65C | 0.886 | 17.72 | 4008.8 |
| | SC (Arc) | 3.006 | 57.96 | 17290.7 | AC22bin35/50(a) | 0.621 | 12.42 | 3684.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2482.5 | C31 | 1.258 | 25.17 | 7789.7 |
| 6820.000 | Suelocemento | 4.788 | 95.77 | 22525.8 | AC32bas35/50G 2 | 2.289 | 45.78 | 10645.9 |
| | AC22bin35/50S | 1.347 | 26.95 | 6151.5 | PA11 45/80-65C | 0.886 | 17.72 | 4026.5 |
| | SC (Arc) | 3.006 | 60.12 | 17350.8 | AC22bin35/50(a) | 0.621 | 12.42 | 3697.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2490.9 | C31 | 1.258 | 25.17 | 7814.9 |
| 6840.000 | Suelocemento | 4.788 | 95.77 | 22621.6 | AC32bas35/50G 2 | 2.289 | 45.78 | 10691.7 |
| | AC22bin35/50S | 1.347 | 26.95 | 6178.4 | PA11 45/80-65C | 0.886 | 17.72 | 4044.2 |
| | SC (Arc) | 3.006 | 60.12 | 17410.9 | AC22bin35/50(a) | 0.621 | 12.42 | 3709.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2499.3 | C31 | 1.258 | 25.17 | 7840.1 |
| 6860.000 | Suelocemento | 4.788 | 95.77 | 22717.3 | AC32bas35/50G 2 | 2.289 | 45.78 | 10737.5 |
| | AC22bin35/50S | 1.347 | 26.95 | 6205.3 | PA11 45/80-65C | 0.886 | 17.72 | 4061.9 |
| | SC (Arc) | 3.006 | 60.12 | 17471.1 | AC22bin35/50(a) | 0.621 | 12.42 | 3722.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2507.6 | C31 | 1.258 | 25.17 | 7865.2 |
| 6880.000 | Suelocemento | 4.788 | 95.77 | 22813.1 | AC32bas35/50G 2 | 2.289 | 45.78 | 10783.3 |
| | AC22bin35/50S | 1.347 | 26.95 | 6232.3 | PA11 45/80-65C | 0.886 | 17.72 | 4079.6 |
| | SC (Arc) | 3.006 | 60.12 | 17531.2 | AC22bin35/50(a) | 0.621 | 12.42 | 3734.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2516.0 | C31 | 1.258 | 25.17 | 7890.4 |
| 6900.000 | Suelocemento | 4.788 | 95.77 | 22908.9 | AC32bas35/50G 2 | 2.289 | 45.78 | 10829.0 |
| | AC22bin35/50S | 1.347 | 26.95 | 6259.2 | PA11 45/80-65C | 0.886 | 17.72 | 4097.4 |
| | SC (Arc) | 3.006 | 60.12 | 17591.3 | AC22bin35/50(a) | 0.621 | 12.42 | 3747.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2524.4 | C31 | 1.678 | 28.31 | 7918.7 |
| 6920.000 | Suelocemento | 3.490 | 93.70 | 23002.6 | AC32bas35/50G 2 | 1.666 | 44.79 | 10873.8 |
| | AC22bin35/50S | 0.982 | 26.37 | 6285.6 | PA11 45/80-65C | 0.646 | 17.34 | 4114.7 |
| | SC (Arc) | 2.220 | 58.96 | 17650.3 | AC22bin35/50(a) | 0.463 | 12.17 | 3759.1 |
| | PA1145/80-65(a) | 0.313 | 8.20 | 2532.6 | C31 | 0.199 | 16.93 | 7935.7 |
| 6940.000 | Suelocemento | 2.394 | 19.48 | 23022.1 | AC32bas35/50G 2 | 1.145 | 9.26 | 10883.1 |
| | AC22bin35/50S | 0.674 | 5.43 | 6291.0 | PA11 45/80-65C | 0.443 | 3.55 | 4118.2 |
| | SC (Arc) | 1.197 | 14.51 | 17664.8 | AC22bin35/50(a) | 0.242 | 2.83 | 3762.0 |
| | PA1145/80-65(a) | 0.164 | 1.90 | 2534.5 | C31 | 0.209 | 2.51 | 7938.2 |
| 6960.000 | Suelocemento | 0.000 | 25.75 | 23047.8 | AC32bas35/50G 2 | 0.000 | 12.30 | 10895.4 |
| | AC22bin35/50S | 0.000 | 7.25 | 6298.3 | PA11 45/80-65C | 0.000 | 4.77 | 4123.0 |
| | SC (Arc) | 0.000 | 16.22 | 17681.0 | AC22bin35/50(a) | 0.000 | 3.37 | 3765.4 |
| | PA1145/80-65(a) | 0.000 | 2.28 | 2536.8 | C31 | 0.000 | 1.64 | 7939.8 |
| 7020.000 | Suelocemento | 4.943 | 36.19 | 23084.0 | AC32bas35/50G 2 | 2.366 | 17.32 | 10912.7 |
| | AC22bin35/50S | 1.394 | 10.20 | 6308.5 | PA11 45/80-65C | 0.917 | 6.71 | 4129.7 |
| | SC (Arc) | 3.011 | 22.12 | 17703.1 | AC22bin35/50(a) | 0.621 | 4.57 | 3769.9 |
| | PA1145/80-65(a) | 0.418 | 3.08 | 2539.8 | C31 | 0.733 | 5.50 | 7945.3 |
| 7040.000 | Suelocemento | 0.396 | 57.77 | 23141.8 | AC32bas35/50G 2 | 0.173 | 27.63 | 10940.3 |
| | AC22bin35/50S | 0.096 | 16.26 | 6324.7 | PA11 45/80-65C | 0.060 | 10.69 | 4140.4 |
| | SC (Arc) | 0.852 | 35.67 | 17738.8 | AC22bin35/50(a) | 0.158 | 7.33 | 3777.2 |
| | PA1145/80-65(a) | 0.105 | 5.01 | 2544.9 | C31 | 0.209 | 7.50 | 7952.8 |
| 7060.000 | Suelocemento | 5.275 | 74.12 | 23215.9 | AC32bas35/50G 2 | 2.532 | 35.61 | 10975.9 |
| | AC22bin35/50S | 1.493 | 21.01 | 6345.8 | PA11 45/80-65C | 0.984 | 13.83 | 4154.2 |
| | SC (Arc) | 2.999 | 41.71 | 17780.5 | AC22bin35/50(a) | 0.621 | 8.57 | 3785.8 |
| | PA1145/80-65(a) | 0.419 | 5.78 | 2550.6 | C31 | 1.308 | 13.44 | 7966.3 |
| 7080.000 | Suelocemento | 5.627 | 108.41 | 23324.3 | AC32bas35/50G 2 | 2.708 | 52.11 | 11028.1 |
| | AC22bin35/50S | 1.598 | 30.74 | 6376.5 | PA11 45/80-65C | 1.053 | 20.25 | 4174.5 |
| | SC (Arc) | 2.992 | 59.92 | 17840.4 | AC22bin35/50(a) | 0.621 | 12.42 | 3798.2 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 2559.0 | C31 | 1.306 | 26.15 | 7992.4 |
| 7100.000 | Suelocemento | 4.053 | 107.59 | 23431.9 | AC32bas35/50G 2 | 1.922 | 51.70 | 11079.8 |
| | AC22bin35/50S | 1.127 | 30.49 | 6407.0 | PA11 45/80-65C | 0.739 | 20.08 | 4194.6 |
| | SC (Arc) | 2.986 | 59.78 | 17900.2 | AC22bin35/50(a) | 0.621 | 12.42 | 3810.7 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 2567.4 | C31 | 1.304 | 26.11 | 8018.5 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 7120.000 | Suelocemento | 4.096 | 81.25 | 23513.1 | AC32bas35/50G 2 | 1.943 | 38.52 | 11118.3 |
| | AC22bin35/50S | 1.140 | 22.59 | 6429.6 | PA11 45/80-65C | 0.747 | 14.81 | 4209.4 |
| | SC (Arc) | 2.979 | 59.37 | 17959.5 | AC22bin35/50(a) | 0.621 | 12.42 | 3823.1 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 2575.8 | C31 | 1.182 | 19.15 | 8037.7 |
| 7140.000 | Suelocemento | 4.487 | 84.91 | 23598.0 | AC32bas35/50G 2 | 2.138 | 40.35 | 11158.6 |
| | AC22bin35/50S | 1.257 | 23.69 | 6453.3 | PA11 45/80-65C | 0.825 | 15.54 | 4224.9 |
| | SC (Arc) | 2.972 | 59.51 | 18019.1 | AC22bin35/50(a) | 0.621 | 12.43 | 3835.5 |
| | PA1145/80-65(a) | 0.419 | 8.38 | 2584.1 | C31 | 1.227 | 24.20 | 8061.9 |
| 7160.000 | Suelocemento | 3.318 | 96.93 | 23695.0 | AC32bas35/50G 2 | 1.554 | 46.36 | 11205.0 |
| | AC22bin35/50S | 0.906 | 27.29 | 6480.5 | PA11 45/80-65C | 0.591 | 17.94 | 4242.9 |
| | SC (Arc) | 2.966 | 59.38 | 18078.4 | AC22bin35/50(a) | 0.621 | 12.43 | 3847.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2592.5 | C31 | 1.255 | 24.76 | 8086.6 |
| 7180.000 | Suelocemento | 3.318 | 66.36 | 23761.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 11236.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 6498.7 | PA11 45/80-65C | 0.592 | 11.83 | 4254.7 |
| | SC (Arc) | 2.959 | 59.25 | 18137.7 | AC22bin35/50(a) | 0.621 | 12.43 | 3860.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2600.9 | C31 | 1.255 | 25.10 | 8111.7 |
| 7200.000 | Suelocemento | 3.318 | 66.36 | 23827.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 11267.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 6516.8 | PA11 45/80-65C | 0.591 | 11.83 | 4266.5 |
| | SC (Arc) | 2.953 | 59.12 | 18196.8 | AC22bin35/50(a) | 0.621 | 12.43 | 3872.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2609.3 | C31 | 1.255 | 25.10 | 8136.8 |
| 7220.000 | Suelocemento | 3.318 | 66.36 | 23894.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 11298.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 6534.9 | PA11 45/80-65C | 0.591 | 11.83 | 4278.4 |
| | SC (Arc) | 2.946 | 58.99 | 18255.8 | AC22bin35/50(a) | 0.621 | 12.43 | 3885.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2617.6 | C31 | 1.255 | 25.10 | 8161.9 |
| 7240.000 | Suelocemento | 3.318 | 66.36 | 23960.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 11329.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 6553.0 | PA11 45/80-65C | 0.591 | 11.83 | 4290.2 |
| | SC (Arc) | 2.940 | 58.86 | 18314.7 | AC22bin35/50(a) | 0.621 | 12.43 | 3897.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2626.0 | C31 | 1.248 | 25.07 | 8187.0 |
| 7260.000 | Suelocemento | 4.843 | 82.83 | 24043.2 | AC32bas35/50G 2 | 2.316 | 39.31 | 11368.6 |
| | AC22bin35/50S | 1.363 | 23.06 | 6576.1 | PA11 45/80-65C | 0.896 | 15.12 | 4305.3 |
| | SC (Arc) | 2.933 | 58.73 | 18373.4 | AC22bin35/50(a) | 0.621 | 12.43 | 3910.1 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 2634.4 | C31 | 1.240 | 24.91 | 8211.9 |
| 7280.000 | Suelocemento | 5.283 | 116.18 | 24159.4 | AC32bas35/50G 2 | 2.536 | 55.99 | 11424.6 |
| | AC22bin35/50S | 1.496 | 33.06 | 6609.2 | PA11 45/80-65C | 0.984 | 21.79 | 4327.1 |
| | SC (Arc) | 2.926 | 58.59 | 18432.0 | AC22bin35/50(a) | 0.621 | 12.43 | 3922.5 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 2642.7 | C31 | 1.255 | 25.07 | 8237.0 |
| 7300.000 | Suelocemento | 4.814 | 99.56 | 24259.0 | AC32bas35/50G 2 | 2.302 | 47.68 | 11472.3 |
| | AC22bin35/50S | 1.355 | 28.08 | 6637.2 | PA11 45/80-65C | 0.891 | 18.47 | 4345.6 |
| | SC (Arc) | 2.923 | 58.48 | 18490.5 | AC22bin35/50(a) | 0.621 | 12.43 | 3934.9 |
| | PA1145/80-65(a) | 0 | | | | | | |

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Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 7500.000 | Suelocemento | 3.872 | 79.79 | 25140.4 | AC32bas35/50G 2 | 1.831 | 37.80 | 11892.8 |
| | AC22bin35/50S | 1.072 | 22.15 | 6884.5 | PA11 45/80-65C | 0.702 | 14.52 | 4508.0 |
| | SC (Arc) | 2.965 | 59.26 | 19052.6 | AC22bin35/50(a) | 0.621 | 12.43 | 4054.1 |
| | PA1145/80-65(a) | 0.419 | 8.37 | 2731.4 | C31 | 1.255 | 25.11 | 8485.8 |
| 7520.000 | Suelocemento | 3.637 | 75.09 | 25215.5 | AC32bas35/50G 2 | 1.713 | 35.45 | 11928.3 |
| | AC22bin35/50S | 1.002 | 20.74 | 6905.2 | PA11 45/80-65C | 0.655 | 13.58 | 4521.5 |
| | SC (Arc) | 2.965 | 59.30 | 19111.9 | AC22bin35/50(a) | 0.621 | 12.43 | 4066.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2739.7 | C31 | 1.255 | 37.70 | 8523.5 |
| 7540.000 | Suelocemento | 3.482 | 70.93 | 25286.4 | AC32bas35/50G 2 | 1.636 | 33.37 | 11961.6 |
| | AC22bin35/50S | 0.955 | 19.49 | 6924.7 | PA11 45/80-65C | 0.624 | 12.74 | 4534.3 |
| | SC (Arc) | 2.965 | 59.30 | 19171.2 | AC22bin35/50(a) | 0.621 | 12.43 | 4079.0 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2748.1 | C31 | 1.256 | 25.11 | 8548.6 |
| 7560.000 | Suelocemento | 3.364 | 68.46 | 25354.9 | AC32bas35/50G 2 | 1.577 | 32.13 | 11993.8 |
| | AC22bin35/50S | 0.920 | 18.75 | 6943.5 | PA11 45/80-65C | 0.601 | 12.25 | 4546.5 |
| | SC (Arc) | 2.965 | 59.30 | 19230.5 | AC22bin35/50(a) | 0.621 | 12.43 | 4091.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2756.5 | C31 | 1.255 | 25.10 | 8573.7 |
| 7580.000 | Suelocemento | 3.318 | 66.54 | 25421.4 | AC32bas35/50G 2 | 1.554 | 31.17 | 12024.9 |
| | AC22bin35/50S | 0.906 | 18.18 | 6961.6 | PA11 45/80-65C | 0.591 | 11.87 | 4558.4 |
| | SC (Arc) | 2.965 | 59.30 | 19289.8 | AC22bin35/50(a) | 0.621 | 12.43 | 4103.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2764.8 | C31 | 1.256 | 25.10 | 8598.8 |
| 7600.000 | Suelocemento | 3.318 | 66.36 | 25487.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 12056.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 6979.8 | PA11 45/80-65C | 0.592 | 11.83 | 4570.2 |
| | SC (Arc) | 2.965 | 59.30 | 19349.1 | AC22bin35/50(a) | 0.621 | 12.43 | 4116.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2773.2 | C31 | 1.255 | 25.11 | 8623.9 |
| 7620.000 | Suelocemento | 3.318 | 66.36 | 25554.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 12087.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 6997.9 | PA11 45/80-65C | 0.591 | 11.83 | 4582.1 |
| | SC (Arc) | 2.965 | 59.30 | 19408.4 | AC22bin35/50(a) | 0.621 | 12.43 | 4128.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2781.6 | C31 | 1.255 | 25.10 | 8649.0 |
| 7640.000 | Suelocemento | 3.318 | 66.36 | 25620.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 12118.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 7016.0 | PA11 45/80-65C | 0.592 | 11.83 | 4593.9 |
| | SC (Arc) | 2.965 | 59.30 | 19467.7 | AC22bin35/50(a) | 0.621 | 12.43 | 4141.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2789.9 | C31 | 1.255 | 25.10 | 8674.1 |
| 7660.000 | Suelocemento | 3.318 | 66.36 | 25686.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 12149.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 7034.1 | PA11 45/80-65C | 0.591 | 11.83 | 4605.7 |
| | SC (Arc) | 2.965 | 59.30 | 19527.0 | AC22bin35/50(a) | 0.621 | 12.43 | 4153.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2798.3 | C31 | 1.255 | 25.10 | 8699.2 |
| 7680.000 | Suelocemento | 3.318 | 66.36 | 25753.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 12180.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 7052.2 | PA11 45/80-65C | 0.591 | 11.83 | 4617.5 |
| | SC (Arc) | 2.972 | 59.31 | 19586.3 | AC22bin35/50(a) | 0.621 | 12.42 | 4165.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2806.7 | C31 | 0.417 | 22.73 | 8721.9 |
| 7700.000 | Suelocemento | 3.318 | 66.36 | 25803.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 12203.7 |
| | AC22bin35/50S | 0.906 | 13.59 | 7065.8 | PA11 45/80-65C | 0.591 | 8.87 | 4626.4 |
| | SC (Arc) | 2.972 | 44.59 | 19630.9 | AC22bin35/50(a) | 0.621 | 9.32 | 4175.2 |
| | PA1145/80-65(a) | 0.418 | 6.27 | 2812.9 | C31 | 0.417 | 6.27 | 8728.2 |
| 7720.000 | Suelocemento | 3.318 | 66.36 | 25869.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 12234.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 7084.0 | PA11 45/80-65C | 0.591 | 11.83 | 4638.3 |
| | SC (Arc) | 2.965 | 59.31 | 19690.2 | AC22bin35/50(a) | 0.621 | 12.42 | 4187.7 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2821.3 | C31 | 1.255 | 22.31 | 8750.5 |
| 7740.000 | Suelocemento | 3.318 | 66.36 | 25935.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 12265.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 7102.1 | PA11 45/80-65C | 0.591 | 11.83 | 4650.1 |
| | SC (Arc) | 2.965 | 59.30 | 19749.5 | AC22bin35/50(a) | 0.621 | 12.43 | 4200.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2829.7 | C31 | 1.255 | 25.10 | 8775.6 |
| 7760.000 | Suelocemento | 3.318 | 66.36 | 26002.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 12296.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 7120.2 | PA11 45/80-65C | 0.592 | 11.83 | 4661.9 |
| | SC (Arc) | 2.965 | 59.30 | 19808.8 | AC22bin35/50(a) | 0.621 | 12.43 | 4212.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2838.0 | C31 | 1.255 | 25.10 | 8800.7 |
| 7780.000 | Suelocemento | 3.318 | 66.36 | 26068.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 12328.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 7138.3 | PA11 45/80-65C | 0.592 | 11.83 | 4673.7 |
| | SC (Arc) | 2.965 | 59.30 | 19868.1 | AC22bin35/50(a) | 0.621 | 12.43 | 4224.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2846.4 | C31 | 1.255 | 25.10 | 8825.8 |
| 7800.000 | Suelocemento | 3.318 | 66.36 | 26134.8 | AC32bas35/50G 2 | 1.554 | 31.08 | 12359.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 7156.4 | PA11 45/80-65C | 0.591 | 11.83 | 4685.6 |
| | SC (Arc) | 2.965 | 59.30 | 19927.4 | AC22bin35/50(a) | 0.621 | 12.43 | 4237.4 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2854.8 | C31 | 1.255 | 25.10 | 8850.9 |
| 7820.000 | Suelocemento | 3.318 | 66.36 | 26201.2 | AC32bas35/50G 2 | 1.554 | 31.08 | 12390.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 7174.6 | PA11 45/80-65C | 0.591 | 11.83 | 4697.4 |
| | SC (Arc) | 2.965 | 59.30 | 19986.7 | AC22bin35/50(a) | 0.621 | 12.43 | 4249.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2863.2 | C31 | 1.255 | 25.10 | 8876.0 |
| 7840.000 | Suelocemento | 3.318 | 66.36 | 26267.5 | AC32bas35/50G 2 | 1.554 | 31.08 | 12421.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 7192.7 | PA11 45/80-65C | 0.591 | 11.83 | 4709.2 |
| | SC (Arc) | 2.965 | 59.30 | 20046.0 | AC22bin35/50(a) | 0.621 | 12.43 | 4262.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2871.5 | C31 | 1.255 | 25.10 | 8901.1 |
| 7860.000 | Suelocemento | 3.318 | 66.36 | 26333.9 | AC32bas35/50G 2 | 1.554 | 31.08 | 12452.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 7210.8 | PA11 45/80-65C | 0.591 | 11.83 | 4721.1 |
| | SC (Arc) | 2.965 | 59.30 | 20105.3 | AC22bin35/50(a) | 0.621 | 12.43 | 4274.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2879.9 | C31 | 1.255 | 25.10 | 8926.2 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 7880.000 | Suelocemento | 3.318 | 66.36 | 26400.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 12483.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 7228.9 | PA11 45/80-65C | 0.591 | 11.83 | 4732.9 |
| | SC (Arc) | 2.965 | 59.30 | 20164.6 | AC22bin35/50(a) | 0.621 | 12.43 | 4287.1 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2888.3 | C31 | 1.255 | 25.10 | 8951.3 |
| 7900.000 | Suelocemento | 3.318 | 66.36 | 26466.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 12514.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 7247.1 | PA11 45/80-65C | 0.591 | 11.83 | 4744.7 |
| | SC (Arc) | 2.965 | 59.30 | 20223.9 | AC22bin35/50(a) | 0.621 | 12.43 | 4299.5 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2896.6 | C31 | 1.255 | 25.10 | 8976.4 |
| 7920.000 | Suelocemento | 3.318 | 66.36 | 26533.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 12545.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 7265.2 | PA11 45/80-65C | 0.591 | 11.83 | 4756.6 |
| | SC (Arc) | 2.965 | 59.30 | 20283.2 | AC22bin35/50(a) | 0.621 | 12.43 | 4311.9 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2905.0 | C31 | 1.255 | 25.10 | 9001.5 |
| 7940.000 | Suelocemento | 3.318 | 66.36 | 26599.3 | AC32bas35/50G 2 | 1.554 | 31.08 | 12576.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 7283.3 | PA11 45/80-65C | 0.591 | 11.83 | 4768.4 |
| | SC (Arc) | 2.965 | 59.30 | 20342.5 | AC22bin35/50(a) | 0.621 | 12.43 | 4324.3 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2913.4 | C31 | 1.255 | 25.10 | 9026.6 |
| 7960.000 | Suelocemento | 3.318 | 66.36 | 26665.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 12607.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 7301.4 | PA11 45/80-65C | 0.591 | 11.83 | 4780.2 |
| | SC (Arc) | 2.965 | 59.30 | 20401.7 | AC22bin35/50(a) | 0.621 | 12.43 | 4336.8 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2921.7 | C31 | 1.255 | 25.10 | 9051.7 |
| 7980.000 | Suelocemento | 3.318 | 66.36 | 26732.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 12638.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 7319.5 | PA11 45/80-65C | 0.591 | 11.83 | 4792.0 |
| | SC (Arc) | 2.965 | 59.30 | 20461.0 | AC22bin35/50(a) | 0.621 | 12.43 | 4349.2 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2930.1 | C31 | 1.255 | 25.10 | 9076.8 |
| 8000.000 | Suelocemento | 3.318 | 66.36 | 26798.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 12669.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 7337.7 | PA11 45/80-65C | 0.591 | 11.83 | 4803.9 |
| | SC (Arc) | 2.965 | 59.30 | 20520.3 | AC22bin35/50(a) | 0.621 | 12.43 | 4361.6 |
| | PA1145/80-65(a) | 0.418 | 8.37 | 2938.5 | C31 | 1.255 | 25.10 | 9101.9 |
| 8020.00 | | | | | | | | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|------------------|-------------|--------------|--------------|------------------|-------------|--------------|--------------|
| 8260.000 | Suelocemento | 3.318 | 66.36 | 27614.6 | AC32bas35/50G 2 | 1.554 | 31.08 | 13052.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 7560.6 | PA11 45/80-65C | 0.591 | 11.83 | 4949.4 |
| | SC (Arc) | 2.965 | 59.30 | 21249.8 | AC22bin35/50 (a) | 0.621 | 12.43 | 4514.4 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3041.4 | C31 | 1.255 | 25.10 | 9398.9 |
| 8280.000 | Suelocemento | 3.318 | 66.36 | 27681.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 13083.2 |
| | AC22bin35/50S | 0.906 | 18.12 | 7578.7 | PA11 45/80-65C | 0.592 | 11.83 | 4961.2 |
| | SC (Arc) | 2.965 | 59.30 | 21309.1 | AC22bin35/50 (a) | 0.621 | 12.43 | 4526.9 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3049.7 | C31 | 1.255 | 25.10 | 9424.0 |
| 8300.000 | Suelocemento | 3.318 | 66.36 | 27747.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 13114.3 |
| | AC22bin35/50S | 0.906 | 18.12 | 7596.8 | PA11 45/80-65C | 0.592 | 11.83 | 4973.0 |
| | SC (Arc) | 2.965 | 59.30 | 21368.4 | AC22bin35/50 (a) | 0.621 | 12.43 | 4539.3 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3058.1 | C31 | 2.095 | 31.40 | 9455.4 |
| 8320.000 | Suelocemento | 3.318 | 66.36 | 27813.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 13145.4 |
| | AC22bin35/50S | 0.906 | 18.12 | 7614.9 | PA11 45/80-65C | 0.591 | 11.83 | 4984.9 |
| | SC (Arc) | 2.965 | 59.30 | 21427.7 | AC22bin35/50 (a) | 0.621 | 12.43 | 4551.7 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3066.5 | C31 | 1.255 | 32.45 | 9487.8 |
| 8340.000 | Suelocemento | 3.318 | 66.36 | 27880.1 | AC32bas35/50G 2 | 1.554 | 31.08 | 13176.5 |
| | AC22bin35/50S | 0.906 | 18.12 | 7633.0 | PA11 45/80-65C | 0.591 | 11.83 | 4996.7 |
| | SC (Arc) | 2.950 | 59.20 | 21486.9 | AC22bin35/50 (a) | 0.621 | 12.43 | 4564.1 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3074.8 | C31 | 1.251 | 25.09 | 9512.9 |
| 8360.000 | Suelocemento | 3.318 | 66.36 | 27946.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 13207.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 7651.2 | PA11 45/80-65C | 0.591 | 11.83 | 5008.5 |
| | SC (Arc) | 2.929 | 58.80 | 21545.7 | AC22bin35/50 (a) | 0.621 | 12.43 | 4576.6 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3083.2 | C31 | 1.212 | 24.52 | 9537.4 |
| 8380.000 | Suelocemento | 4.180 | 76.87 | 28023.3 | AC32bas35/50G 2 | 2.048 | 37.10 | 13244.7 |
| | AC22bin35/50S | 0.906 | 18.12 | 7669.3 | PA11 45/80-65C | 0.591 | 11.83 | 5020.4 |
| | SC (Arc) | 1.570 | 41.99 | 21587.7 | AC22bin35/50 (a) | 0.621 | 12.43 | 4589.0 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3091.6 | C31 | 1.029 | 21.11 | 9558.5 |
| 8400.000 | Suelocemento | 4.180 | 83.60 | 28106.9 | AC32bas35/50G 2 | 2.048 | 40.95 | 13285.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 7687.4 | PA11 45/80-65C | 0.591 | 11.83 | 5032.2 |
| | SC (Arc) | 1.570 | 31.39 | 21619.1 | AC22bin35/50 (a) | 0.621 | 12.43 | 4601.4 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3099.9 | C31 | 0.998 | 20.34 | 9578.9 |
| 8420.000 | Suelocemento | 4.180 | 83.60 | 28190.5 | AC32bas35/50G 2 | 2.048 | 40.95 | 13326.6 |
| | AC22bin35/50S | 0.906 | 18.12 | 7705.5 | PA11 45/80-65C | 0.591 | 11.83 | 5044.0 |
| | SC (Arc) | 1.570 | 31.39 | 21650.5 | AC22bin35/50 (a) | 0.621 | 12.43 | 4613.8 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3108.3 | C31 | 0.917 | 19.35 | 9598.2 |
| 8440.000 | Suelocemento | 3.318 | 77.13 | 28267.6 | AC32bas35/50G 2 | 1.554 | 37.25 | 13363.8 |
| | AC22bin35/50S | 0.906 | 18.12 | 7723.6 | PA11 45/80-65C | 0.591 | 11.83 | 5055.8 |
| | SC (Arc) | 2.923 | 41.56 | 21692.0 | AC22bin35/50 (a) | 0.621 | 12.43 | 4626.3 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3116.7 | C31 | 1.222 | 18.26 | 9616.5 |
| 8460.000 | Suelocemento | 3.318 | 66.36 | 28334.0 | AC32bas35/50G 2 | 1.554 | 31.08 | 13394.9 |
| | AC22bin35/50S | 0.906 | 18.12 | 7741.8 | PA11 45/80-65C | 0.591 | 11.83 | 5067.7 |
| | SC (Arc) | 2.925 | 58.50 | 21750.5 | AC22bin35/50 (a) | 0.621 | 12.43 | 4638.7 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3125.0 | C31 | 0.820 | 18.32 | 9634.8 |
| 8480.000 | Suelocemento | 3.318 | 66.36 | 28400.4 | AC32bas35/50G 2 | 1.554 | 31.08 | 13426.0 |
| | AC22bin35/50S | 0.906 | 18.12 | 7759.9 | PA11 45/80-65C | 0.591 | 11.83 | 5079.5 |
| | SC (Arc) | 2.925 | 58.51 | 21809.0 | AC22bin35/50 (a) | 0.621 | 12.43 | 4651.1 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3133.4 | C31 | 0.782 | 16.11 | 9650.9 |
| 8500.000 | Suelocemento | 3.318 | 66.36 | 28466.7 | AC32bas35/50G 2 | 1.554 | 31.08 | 13457.1 |
| | AC22bin35/50S | 0.906 | 18.12 | 7778.0 | PA11 45/80-65C | 0.591 | 11.83 | 5091.3 |
| | SC (Arc) | 2.923 | 58.49 | 21867.5 | AC22bin35/50 (a) | 0.621 | 12.43 | 4663.5 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3141.8 | C31 | 1.255 | 17.56 | 9668.5 |
| 8520.000 | Suelocemento | 3.382 | 66.71 | 28533.4 | AC32bas35/50G 2 | 1.586 | 31.25 | 13488.3 |
| | AC22bin35/50S | 0.925 | 18.22 | 7796.2 | PA11 45/80-65C | 0.604 | 11.90 | 5103.2 |
| | SC (Arc) | 2.923 | 58.46 | 21926.0 | AC22bin35/50 (a) | 0.621 | 12.43 | 4676.0 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3150.1 | C31 | 1.240 | 31.40 | 9699.9 |
| 8540.000 | Suelocemento | 3.500 | 68.82 | 28602.3 | AC32bas35/50G 2 | 1.645 | 32.31 | 13520.6 |
| | AC22bin35/50S | 0.960 | 18.86 | 7815.1 | PA11 45/80-65C | 0.628 | 12.32 | 5115.5 |
| | SC (Arc) | 2.923 | 58.46 | 21984.5 | AC22bin35/50 (a) | 0.621 | 12.43 | 4688.4 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3158.5 | C31 | 1.255 | 24.92 | 9724.8 |
| 8560.000 | Suelocemento | 3.617 | 71.17 | 28673.4 | AC32bas35/50G 2 | 1.704 | 33.48 | 13554.1 |
| | AC22bin35/50S | 0.996 | 19.56 | 7834.6 | PA11 45/80-65C | 0.651 | 12.79 | 5128.3 |
| | SC (Arc) | 2.923 | 58.46 | 22042.9 | AC22bin35/50 (a) | 0.621 | 12.43 | 4700.8 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3166.9 | C31 | 1.252 | 25.08 | 9749.9 |
| 8580.000 | Suelocemento | 3.735 | 73.52 | 28746.9 | AC32bas35/50G 2 | 1.762 | 34.66 | 13588.8 |
| | AC22bin35/50S | 1.031 | 20.27 | 7854.9 | PA11 45/80-65C | 0.675 | 13.26 | 5141.6 |
| | SC (Arc) | 2.923 | 58.46 | 22101.4 | AC22bin35/50 (a) | 0.621 | 12.43 | 4713.3 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3175.2 | C31 | 1.253 | 25.06 | 9774.9 |
| 8600.000 | Suelocemento | 3.852 | 75.87 | 28822.8 | AC32bas35/50G 2 | 1.821 | 35.84 | 13624.6 |
| | AC22bin35/50S | 1.066 | 20.97 | 7875.9 | PA11 45/80-65C | 0.698 | 13.73 | 5155.3 |
| | SC (Arc) | 2.923 | 58.46 | 22159.8 | AC22bin35/50 (a) | 0.621 | 12.43 | 4725.7 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3183.6 | C31 | 1.255 | 25.10 | 9800.0 |
| 8620.000 | Suelocemento | 3.970 | 78.23 | 28901.0 | AC32bas35/50G 2 | 1.880 | 37.01 | 13661.6 |
| | AC22bin35/50S | 1.102 | 21.68 | 7897.5 | PA11 45/80-65C | 0.722 | 14.20 | 5169.5 |
| | SC (Arc) | 2.923 | 58.46 | 22218.3 | AC22bin35/50 (a) | 0.621 | 12.43 | 4738.1 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3192.0 | C31 | 1.255 | 25.10 | 9825.1 |

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|------------------|-------------|--------------|--------------|------------------|-------------|--------------|--------------|
| 8640.000 | Suelocemento | 4.055 | 80.48 | 28981.5 | AC32bas35/50G 2 | 1.922 | 38.14 | 13699.8 |
| | AC22bin35/50S | 1.127 | 22.35 | 7919.9 | PA11 45/80-65C | 0.739 | 14.65 | 5184.2 |
| | SC (Arc) | 2.923 | 58.46 | 22276.8 | AC22bin35/50 (a) | 0.621 | 12.43 | 4750.5 |
| | PA1145/80-65 (a) | 0.418 | 8.37 | 3200.3 | C31 | 1.255 | 25.10 | 9850.2 |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 1 : TRONCO N-II (F4-1_3.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|------------------|---------|-----------------|
| SUBRASANTE | | 245746.1 |
| Suelocemento | 29043.2 | 135317.5 |
| AC32bas35/50G 2 | 13729.0 | 129311.5 |
| AC22bin35/50S | 7937.0 | 125101.7 |
| PA11 45/80-65C | 5195.4 | 123106.6 |
| SC (Arc) | 22321.2 | 74611.5 |
| AC22bin35/50 (a) | 4760.0 | 76025.8 |
| PA1145/80-65 (a) | 3206.7 | 76643.9 |
| C31 | 9869.3 | |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 4 : E1 RAMAL 4 (F4-4.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 15.259 | Suelocemento | 1.636 | 0.00 | 0.0 | AC32base50/70G | 0.540 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.376 | 0.00 | 0.0 | PA11 45/80-60C | 0.295 | 0.00 | 0.0 |
| | ZA (Arc) | 0.725 | 0.00 | 0.0 | AC22bin50/70(a) | 0.134 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.105 | 0.00 | 0.0 | C31 | 0.958 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 1.598 | 7.67 | 7.7 | AC32base50/70G | 0.526 | 2.52 | 2.5 |
| | AC22bin50/70S | 0.366 | 1.76 | 1.8 | PA11 45/80-60C | 0.287 | 1.38 | 1.4 |
| | ZA (Arc) | 0.724 | 3.44 | 3.4 | AC22bin50/70(a) | 0.134 | 0.63 | 0.6 |
| | PA1145/80-60(a) | 0.105 | 0.50 | 0.5 | C31 | 0.956 | 4.54 | 4.5 |
| 40.000 | Suelocemento | 1.432 | 30.31 | 38.0 | AC32base50/70G | 0.467 | 9.92 | 12.4 |
| | AC22bin50/70S | 0.325 | 6.91 | 8.7 | PA11 45/80-60C | 0.254 | 5.41 | 6.8 |
| | ZA (Arc) | 0.721 | 14.45 | 17.9 | AC22bin50/70(a) | 0.134 | 2.68 | 3.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.6 | C31 | 0.910 | 18.92 | 23.5 |
| 60.000 | Suelocemento | 1.432 | 28.65 | 66.6 | AC32base50/70G | 0.467 | 9.33 | 21.8 |
| | AC22bin50/70S | 0.324 | 6.49 | 15.2 | PA11 45/80-60C | 0.254 | 5.07 | 11.9 |
| | ZA (Arc) | 0.719 | 14.39 | 32.3 | AC22bin50/70(a) | 0.134 | 2.68 | 6.0 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 4.7 | C31 | 0.868 | 17.22 | 40.7 |
| 80.000 | Suelocemento | 1.432 | 28.65 | 95.3 | AC32base50/70G | 0.467 | 9.33 | 31.1 |
| | AC22bin50/70S | 0.324 | 6.49 | 21.7 | PA11 45/80-60C | 0.254 | 5.07 | 16.9 |
| | ZA (Arc) | 0.722 | 14.41 | 46.7 | AC22bin50/70(a) | 0.134 | 2.68 | 8.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 6.8 | C31 | 0.961 | 18.36 | 59.0 |
| 100.000 | Suelocemento | 1.428 | 28.61 | 123.9 | AC32base50/70G | 0.467 | 9.34 | 40.4 |
| | AC22bin50/70S | 0.324 | 6.49 | 28.1 | PA11 45/80-60C | 0.254 | 5.07 | 22.0 |
| | ZA (Arc) | 0.725 | 14.47 | 61.2 | AC22bin50/70(a) | 0.134 | 2.68 | 11.4 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 8.9 | C31 | 0.958 | 19.20 | 78.2 |
| 120.000 | Suelocemento | 1.434 | 28.59 | 152.5 | AC32base50/70G | 0.471 | 9.36 | 49.8 |
| | AC22bin50/70S | 0.327 | 6.51 | 34.7 | PA11 45/80-60C | 0.256 | 5.09 | 27.1 |
| | ZA (Arc) | 0.729 | 14.54 | 75.7 | AC22bin50/70(a) | 0.134 | 2.68 | 14.0 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 11.0 | C31 | 0.961 | 19.17 | 97.4 |
| 140.000 | Suelocemento | 1.446 | 28.80 | 181.3 | AC32base50/70G | 0.476 | 9.47 | 59.3 |
| | AC22bin50/70S | 0.331 | 6.59 | 41.2 | PA11 45/80-60C | 0.259 | 5.15 | 32.3 |
| | ZA (Arc) | 0.731 | 14.60 | 90.3 | AC22bin50/70(a) | 0.134 | 2.68 | 16.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 13.1 | C31 | 0.947 | 19.22 | 116.6 |
| 160.000 | Suelocemento | 1.455 | 29.03 | 210.3 | AC32base50/70G | 0.479 | 9.57 | 68.8 |
| | AC22bin50/70S | 0.334 | 6.66 | 47.9 | PA11 45/80-60C | 0.261 | 5.21 | 37.5 |
| | ZA (Arc) | 0.731 | 14.62 | 104.9 | AC22bin50/70(a) | 0.134 | 2.67 | 19.4 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 15.2 | C31 | 0.942 | 18.69 | 135.3 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 4 : E1 RAMAL 4 (F4-4.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2023.7 |
| Suelocemento | 236.6 | 1099.6 |
| AC32base50/70G | 77.5 | 1044.1 |
| AC22bin50/70S | 53.9 | 1019.7 |
| PA11 45/80-60C | 42.2 | 998.5 |
| ZA (Arc) | 118.1 | 431.7 |
| AC22bin50/70(a) | 21.8 | 415.5 |
| PA1145/80-60(a) | 17.1 | 407.5 |
| C31 | 152.6 | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 5 : E1 RAMAL 3 (F4-5.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 160.201 | Suelocemento | 1.347 | 0.00 | 0.0 | AC32base50/70G | 0.439 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.305 | 0.00 | 0.0 | PA11 45/80-60C | 0.238 | 0.00 | 0.0 |
| | ZA (Arc) | 0.731 | 0.00 | 0.0 | AC22bin50/70(a) | 0.134 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.105 | 0.00 | 0.0 | C31 | 0.779 | 0.00 | 0.0 |
| 180.000 | Suelocemento | 1.436 | 27.55 | 27.6 | AC32base50/70G | 0.471 | 9.01 | 9.0 |
| | AC22bin50/70S | 0.328 | 6.27 | 6.3 | PA11 45/80-60C | 0.257 | 4.90 | 4.9 |
| | ZA (Arc) | 0.731 | 14.47 | 14.5 | AC22bin50/70(a) | 0.134 | 2.65 | 2.6 |
| | PA1145/80-60(a) | 0.105 | 2.08 | 2.1 | C31 | 0.774 | 15.38 | 15.4 |
| 200.000 | Suelocemento | 1.460 | 29.21 | 56.8 | AC32base50/70G | 0.482 | 9.60 | 18.6 |
| | AC22bin50/70S | 0.335 | 6.68 | 12.9 | PA11 45/80-60C | 0.263 | 5.23 | 10.1 |
| | ZA (Arc) | 0.731 | 14.62 | 29.1 | AC22bin50/70(a) | 0.134 | 2.68 | 5.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 4.2 | C31 | 0.925 | 15.47 | 30.9 |
| 220.000 | Suelocemento | 1.460 | 29.20 | 86.0 | AC32base50/70G | 0.482 | 9.63 | 28.2 |
| | AC22bin50/70S | 0.335 | 6.71 | 19.7 | PA11 45/80-60C | 0.263 | 5.25 | 15.4 |
| | ZA (Arc) | 0.731 | 14.62 | 43.7 | AC22bin50/70(a) | 0.134 | 2.68 | 8.0 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 6.3 | C31 | 0.925 | 18.49 | 49.3 |
| 240.000 | Suelocemento | 1.474 | 29.27 | 115.2 | AC32base50/70G | 0.481 | 9.63 | 37.9 |
| | AC22bin50/70S | 0.335 | 6.71 | 26.4 | PA11 45/80-60C | 0.262 | 5.25 | 20.6 |
| | ZA (Arc) | 0.731 | 14.62 | 58.3 | AC22bin50/70(a) | 0.134 | 2.68 | 10.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 8.4 | C31 | 0.790 | 17.91 | 67.3 |
| 260.000 | Suelocemento | 1.461 | 28.98 | 144.2 | AC32base50/70G | 0.482 | 9.59 | 47.5 |
| | AC22bin50/70S | 0.335 | 6.69 | 33.1 | PA11 45/80-60C | 0.262 | 5.25 | 25.9 |
| | ZA (Arc) | 0.731 | 14.62 | 72.9 | AC22bin50/70(a) | 0.134 | 2.67 | 13.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 10.5 | C31 | 0.918 | 14.67 | 81.9 |
| 280.000 | Suelocemento | 1.464 | 29.10 | 173.3 | AC32base50/70G | 0.482 | 9.61 | 57.1 |
| | AC22bin50/70S | 0.335 | 6.70 | 39.8 | PA11 45/80-60C | 0.262 | 5.25 | 31.1 |
| | ZA (Arc) | 0.730 | 14.61 | 87.6 | AC22bin50/70(a) | 0.134 | 2.68 | 16.0 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 12.6 | C31 | 0.951 | 17.23 | 99.2 |
| 300.000 | Suelocemento | 1.557 | 30.09 | 203.4 | AC32base50/70G | 0.513 | 9.90 | 67.0 |
| | AC22bin50/70S | 0.357 | 6.89 | 46.6 | PA11 45/80-60C | 0.280 | 5.40 | 36.5 |
| | ZA (Arc) | 0.727 | 14.57 | 102.1 | AC22bin50/70(a) | 0.134 | 2.68 | 18.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 14.7 | C31 | 0.958 | 19.06 | 116.2 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 5 : E1 RAMAL 3 (F4-5.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1877.2 |
| Suelocemento | 224.9 | 1049.4 |
| AC32base50/70G | 74.1 | 998.4 |
| AC22bin50/70S | 51.6 | 975.9 |
| PA11 45/80-60C | 40.4 | 956.2 |
| ZA (Arc) | 111.9 | 406.2 |
| AC22bin50/70(a) | 20.5 | 391.2 |
| PA1145/80-60(a) | 16.1 | 383.9 |
| C31 | 131.2 | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 8 : E1 RAMAL 1 (F4-8.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 198.678 | Suelocemento | 1.222 | 0.00 | 0.0 | AC32base50/70G | 0.393 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.272 | 0.00 | 0.0 | PA11 45/80-60C | 0.212 | 0.00 | 0.0 |
| | ZA (Arc) | 0.721 | 0.00 | 0.0 | AC22bin50/70(a) | 0.134 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.105 | 0.00 | 0.0 | C31 | 0.952 | 0.00 | 0.0 |
| 200.000 | Suelocemento | 1.222 | 1.62 | 1.6 | AC32base50/70G | 0.393 | 0.52 | 0.5 |
| | AC22bin50/70S | 0.272 | 0.36 | 0.4 | PA11 45/80-60C | 0.212 | 0.28 | 0.3 |
| | ZA (Arc) | 0.722 | 0.95 | 1.0 | AC22bin50/70(a) | 0.134 | 0.18 | 0.2 |
| | PA1145/80-60(a) | 0.105 | 0.14 | 0.1 | C31 | 0.956 | 1.26 | 1.3 |
| 220.000 | Suelocemento | 1.218 | 24.41 | 26.0 | AC32base50/70G | 0.393 | 7.87 | 8.4 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.8 | PA11 45/80-60C | 0.212 | 4.24 | 4.5 |
| | ZA (Arc) | 0.725 | 14.47 | 15.4 | AC22bin50/70(a) | 0.134 | 2.68 | 2.9 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.958 | 19.22 | 20.5 |
| 240.000 | Suelocemento | 1.214 | 24.32 | 50.3 | AC32base50/70G | 0.393 | 7.87 | 16.3 |
| | AC22bin50/70S | 0.272 | 5.44 | 11.2 | PA11 45/80-60C | 0.212 | 4.24 | 8.8 |
| | ZA (Arc) | 0.729 | 14.54 | 30.0 | AC22bin50/70(a) | 0.134 | 2.68 | 5.5 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 4.3 | C31 | 0.961 | 19.16 | 39.6 |
| 260.000 | Suelocemento | 1.210 | 24.23 | 74.6 | AC32base50/70G | 0.394 | 7.87 | 24.1 |
| | AC22bin50/70S | 0.272 | 5.44 | 16.7 | PA11 45/80-60C | 0.212 | 4.24 | 13.0 |
| | ZA (Arc) | 0.731 | 14.60 | 44.6 | AC22bin50/70(a) | 0.134 | 2.68 | 8.2 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 6.4 | C31 | 0.943 | 19.19 | 58.8 |
| 280.000 | Suelocemento | 1.208 | 24.17 | 98.7 | AC32base50/70G | 0.394 | 7.87 | 32.0 |
| | AC22bin50/70S | 0.272 | 5.45 | 22.1 | PA11 45/80-60C | 0.212 | 4.24 | 17.2 |
| | ZA (Arc) | 0.731 | 14.62 | 59.2 | AC22bin50/70(a) | 0.134 | 2.67 | 10.9 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 8.5 | C31 | 0.925 | 18.56 | 77.4 |
| 300.000 | Suelocemento | 1.208 | 24.16 | 122.9 | AC32base50/70G | 0.394 | 7.87 | 39.9 |
| | AC22bin50/70S | 0.272 | 5.45 | 27.6 | PA11 45/80-60C | 0.212 | 4.24 | 21.5 |
| | ZA (Arc) | 0.731 | 14.62 | 73.8 | AC22bin50/70(a) | 0.134 | 2.68 | 13.6 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 10.6 | C31 | 0.925 | 18.49 | 95.9 |
| 320.000 | Suelocemento | 1.208 | 24.16 | 147.1 | AC32base50/70G | 0.394 | 7.87 | 47.7 |
| | AC22bin50/70S | 0.272 | 5.45 | 33.0 | PA11 45/80-60C | 0.212 | 4.24 | 25.7 |
| | ZA (Arc) | 0.731 | 14.62 | 88.4 | AC22bin50/70(a) | 0.134 | 2.68 | 16.2 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 12.7 | C31 | 0.925 | 18.49 | 114.4 |
| 340.000 | Suelocemento | 1.208 | 24.16 | 171.2 | AC32base50/70G | 0.394 | 7.87 | 55.6 |
| | AC22bin50/70S | 0.272 | 5.45 | 38.5 | PA11 45/80-60C | 0.212 | 4.24 | 30.0 |
| | ZA (Arc) | 0.731 | 14.62 | 103.0 | AC22bin50/70(a) | 0.134 | 2.68 | 16.9 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 14.8 | C31 | 0.925 | 18.49 | 132.9 |
| 360.000 | Suelocemento | 1.208 | 24.16 | 195.4 | AC32base50/70G | 0.394 | 7.87 | 63.5 |
| | AC22bin50/70S | 0.272 | 5.45 | 43.9 | PA11 45/80-60C | 0.212 | 4.24 | 34.2 |
| | ZA (Arc) | 0.731 | 14.62 | 117.7 | AC22bin50/70(a) | 0.134 | 2.68 | 21.6 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 16.9 | C31 | 0.925 | 18.47 | 151.3 |
| 380.000 | Suelocemento | 1.208 | 24.16 | 219.5 | AC32base50/70G | 0.394 | 7.87 | 71.3 |
| | AC22bin50/70S | 0.272 | 5.45 | 49.4 | PA11 45/80-60C | 0.212 | 4.24 | 38.4 |
| | ZA (Arc) | 0.731 | 14.62 | 132.3 | AC22bin50/70(a) | 0.134 | 2.68 | 24.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 19.0 | C31 | 0.858 | 17.92 | 169.2 |
| 400.000 | Suelocemento | 1.208 | 24.16 | 243.7 | AC32base50/70G | 0.394 | 7.87 | 79.2 |
| | AC22bin50/70S | 0.272 | 5.45 | 54.8 | PA11 45/80-60C | 0.212 | 4.24 | 42.7 |
| | ZA (Arc) | 0.731 | 14.62 | 146.9 | AC22bin50/70(a) | 0.134 | 2.68 | 26.9 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 21.1 | C31 | 0.858 | 17.16 | 186.4 |
| 420.000 | Suelocemento | 1.222 | 24.23 | 267.9 | AC32base50/70G | 0.393 | 7.87 | 87.1 |
| | AC22bin50/70S | 0.272 | 5.45 | 60.3 | PA11 45/80-60C | 0.212 | 4.24 | 46.9 |
| | ZA (Arc) | 0.731 | 14.62 | 161.5 | AC22bin50/70(a) | 0.134 | 2.67 | 29.6 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 23.2 | C31 | 0.811 | 16.93 | 203.3 |
| 440.000 | Suelocemento | 1.212 | 24.09 | 292.0 | AC32base50/70G | 0.393 | 7.87 | 94.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 65.7 | PA11 45/80-60C | 0.212 | 4.24 | 51.2 |
| | ZA (Arc) | 0.730 | 14.13 | 175.6 | AC22bin50/70(a) | 0.134 | 2.68 | 32.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 25.3 | C31 | 0.629 | 8.20 | 211.5 |
| 460.000 | Suelocemento | 1.214 | 24.27 | 316.3 | AC32base50/70G | 0.393 | 7.87 | 102.8 |
| | AC22bin50/70S | 0.272 | 5.44 | 71.1 | PA11 45/80-60C | 0.212 | 4.24 | 55.4 |
| | ZA (Arc) | 0.729 | 14.58 | 190.2 | AC22bin50/70(a) | 0.134 | 2.68 | 35.0 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 27.4 | C31 | 0.955 | 16.89 | 228.4 |

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 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 8 : E1 RAMAL 1 (F4-8.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 3023.2 |
| Suelocemento | 328.8 | 1528.2 |
| AC32base50/70G | 106.9 | 1436.4 |
| AC22bin50/70S | 73.9 | 1395.6 |
| PA11 45/80-60C | 57.6 | 1360.2 |
| ZA (Arc) | 197.7 | 719.1 |
| AC22bin50/70(a) | 36.3 | 693.1 |
| PA1145/80-60(a) | 28.5 | 680.1 |
| C31 | 238.4 | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 10 : E2 GLORIETA (PI 5.8 Y 6.0) (F4-10.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|---------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.946 | 0.00 | 0.0 | AC32base50/70G | 1.034 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.740 | 0.00 | 0.0 | PA11 45/80-60C | 0.589 | 0.00 | 0.0 |
| | C31 | 0.003 | 0.00 | 0.0 | | | | |
| 20.000 | Suelocemento | 3.230 | 60.34 | 60.3 | AC32base50/70G | 1.134 | 21.18 | 21.2 |
| | AC22bin50/70S | 0.811 | 15.15 | 15.1 | PA11 45/80-60C | 0.646 | 12.06 | 12.1 |
| | C31 | 0.003 | 0.06 | 0.1 | | | | |
| 40.000 | Suelocemento | 3.413 | 81.59 | 141.9 | AC32base50/70G | 1.197 | 28.62 | 49.8 |
| | AC22bin50/70S | 0.856 | 20.46 | 35.6 | PA11 45/80-60C | 0.682 | 16.31 | 28.4 |
| | C31 | 0.003 | 0.06 | 0.1 | | | | |
| 60.000 | Suelocemento | 3.328 | 75.63 | 217.6 | AC32base50/70G | 1.168 | 26.53 | 76.3 |
| | AC22bin50/70S | 0.835 | 18.97 | 54.6 | PA11 45/80-60C | 0.665 | 15.12 | 43.5 |
| | C31 | 0.003 | 0.06 | 0.2 | | | | |
| 80.000 | Suelocemento | 2.964 | 60.93 | 278.5 | AC32base50/70G | 1.040 | 21.38 | 97.7 |
| | AC22bin50/70S | 0.744 | 15.29 | 69.9 | PA11 45/80-60C | 0.593 | 12.18 | 55.7 |
| | C31 | 0.003 | 0.07 | 0.3 | | | | |
| 100.000 | Suelocemento | 4.757 | 73.21 | 351.7 | AC32base50/70G | 1.668 | 25.68 | 123.4 |
| | AC22bin50/70S | 1.192 | 18.36 | 88.2 | PA11 45/80-60C | 0.952 | 14.64 | 70.3 |
| | C31 | 0.004 | 0.07 | 0.3 | | | | |
| 120.000 | Suelocemento | 2.946 | 67.89 | 419.6 | AC32base50/70G | 1.034 | 23.82 | 147.2 |
| | AC22bin50/70S | 0.740 | 17.03 | 105.3 | PA11 45/80-60C | 0.589 | 13.58 | 83.9 |
| | C31 | 0.003 | 0.07 | 0.4 | | | | |
| 140.000 | Suelocemento | 2.946 | 58.93 | 478.5 | AC32base50/70G | 1.034 | 20.68 | 167.9 |
| | AC22bin50/70S | 0.740 | 14.79 | 120.1 | PA11 45/80-60C | 0.589 | 11.79 | 95.7 |
| | C31 | 0.003 | 0.06 | 0.5 | | | | |
| 160.000 | Suelocemento | 2.946 | 58.93 | 537.4 | AC32base50/70G | 1.034 | 20.68 | 188.6 |
| | AC22bin50/70S | 0.740 | 14.79 | 134.8 | PA11 45/80-60C | 0.589 | 11.79 | 107.5 |
| | C31 | 0.003 | 0.06 | 0.5 | | | | |
| 180.000 | Suelocemento | 4.214 | 69.97 | 607.4 | AC32base50/70G | 1.478 | 24.55 | 213.1 |
| | AC22bin50/70S | 1.057 | 17.55 | 152.4 | PA11 45/80-60C | 0.843 | 13.99 | 121.5 |
| | C31 | 0.003 | 0.06 | 0.6 | | | | |
| 200.000 | Suelocemento | 2.946 | 67.42 | 674.8 | AC32base50/70G | 1.034 | 23.66 | 236.8 |
| | AC22bin50/70S | 0.740 | 16.92 | 169.3 | PA11 45/80-60C | 0.589 | 13.48 | 134.9 |
| | C31 | 0.003 | 0.07 | 0.7 | | | | |
| 220.000 | Suelocemento | 2.946 | 58.93 | 733.8 | AC32base50/70G | 1.034 | 20.68 | 257.5 |
| | AC22bin50/70S | 0.740 | 14.79 | 184.1 | PA11 45/80-60C | 0.589 | 11.78 | 146.7 |
| | C31 | 0.003 | 0.06 | 0.7 | | | | |
| 240.000 | Suelocemento | 2.946 | 58.93 | 792.7 | AC32base50/70G | 1.034 | 20.69 | 278.2 |
| | AC22bin50/70S | 0.740 | 14.79 | 198.9 | PA11 45/80-60C | 0.589 | 11.78 | 158.5 |
| | C31 | 0.003 | 0.06 | 0.8 | | | | |
| 260.000 | Suelocemento | 3.798 | 63.46 | 856.1 | AC32base50/70G | 1.332 | 22.27 | 300.4 |
| | AC22bin50/70S | 0.953 | 15.92 | 214.8 | PA11 45/80-60C | 0.759 | 12.69 | 171.2 |
| | C31 | 0.003 | 0.07 | 0.8 | | | | |
| 280.000 | Suelocemento | 3.105 | 63.98 | 920.1 | AC32base50/70G | 1.090 | 22.45 | 322.9 |
| | AC22bin50/70S | 0.779 | 16.06 | 230.9 | PA11 45/80-60C | 0.621 | 12.79 | 184.0 |
| | C31 | 0.003 | 0.06 | 0.9 | | | | |
| 300.000 | Suelocemento | 2.972 | 74.54 | 994.7 | AC32base50/70G | 1.043 | 26.15 | 349.0 |
| | AC22bin50/70S | 0.746 | 18.70 | 249.6 | PA11 45/80-60C | 0.594 | 14.90 | 198.9 |
| | C31 | 0.003 | 0.06 | 1.0 | | | | |
| 320.000 | Suelocemento | 2.946 | 59.06 | 1053.7 | AC32base50/70G | 1.034 | 20.73 | 369.8 |
| | AC22bin50/70S | 0.740 | 14.83 | 264.4 | PA11 45/80-60C | 0.589 | 11.81 | 210.7 |
| | C31 | 0.003 | 0.06 | 1.0 | | | | |
| 340.000 | Suelocemento | 2.946 | 58.93 | 1112.6 | AC32base50/70G | 1.034 | 20.69 | 390.4 |
| | AC22bin50/70S | 0.740 | 14.80 | 279.2 | PA11 45/80-60C | 0.589 | 11.78 | 222.5 |
| | C31 | 0.003 | 0.06 | 1.1 | | | | |
| 360.000 | Suelocemento | 3.872 | 65.32 | 1178.0 | AC32base50/70G | 1.358 | 22.93 | 413.4 |
| | AC22bin50/70S | 0.971 | 16.40 | 295.6 | PA11 45/80-60C | 0.774 | 13.06 | 235.6 |
| | C31 | 0.003 | 0.07 | 1.2 | | | | |
| 380.000 | Suelocemento | 2.946 | 73.36 | 1251.3 | AC32base50/70G | 1.034 | 25.73 | 439.1 |
| | AC22bin50/70S | 0.740 | 18.40 | 314.0 | PA11 45/80-60C | 0.589 | 14.67 | 250.2 |
| | C31 | 0.003 | 0.07 | 1.2 | | | | |
| 400.000 | Suelocemento | 2.946 | 58.93 | 1310.3 | AC32base50/70G | 1.034 | 20.68 | 459.8 |
| | AC22bin50/70S | | | | | | | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 10 : E2 GLORIETA (PI 5.8 Y 6.0) (F4-10.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|----------------|---------|-----------------|
| SUBRASANTE | | 44564.1 |
| Suelocemento | 1577.4 | 7527.6 |
| AC32base50/70G | 553.5 | 7537.9 |
| AC22bin50/70S | 395.8 | 7545.3 |
| PA11 45/80-60C | 315.4 | 7498.1 |
| C31 | 1.6 | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 11 : E2 VIAL 1 C-260 (11.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.087 | 0.00 | 0.0 | AC22bin50/70S | 0.759 | 0.00 | 0.0 |
| | PA11 50/70 | 0.375 | 0.00 | 0.0 | | | | |
| 20.000 | Suelocemento | 2.195 | 43.78 | 43.8 | AC22bin50/70S | 0.776 | 15.44 | 15.4 |
| | PA11 50/70 | 0.380 | 7.57 | 7.6 | C31 | 0.001 | 0.02 | 0.0 |
| 40.000 | Suelocemento | 2.163 | 43.37 | 87.2 | AC22bin50/70S | 0.775 | 15.52 | 31.0 |
| | PA11 50/70 | 0.380 | 7.59 | 15.2 | C31 | 0.001 | 0.02 | 0.0 |
| 60.000 | Suelocemento | 2.676 | 46.02 | 133.2 | AC22bin50/70S | 0.950 | 16.41 | 47.4 |
| | PA11 50/70 | 0.466 | 8.04 | 23.2 | C31 | 0.107 | 0.46 | 0.5 |
| 80.000 | Suelocemento | 3.552 | 68.54 | 201.7 | AC22bin50/70S | 1.253 | 24.22 | 71.6 |
| | PA11 50/70 | 0.618 | 11.94 | 35.1 | C31 | 0.414 | 5.27 | 5.8 |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 11 : E2 VIAL 1 C-260 (11.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|---------------|---------|-----------------|
| SUBRASANTE | | 989.8 |
| Suelocemento | 223.7 | 955.8 |
| AC22bin50/70S | 79.3 | 934.4 |
| PA11 50/70 | 38.9 | 923.0 |
| C31 | 6.1 | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 12 : E2 VIAL 2 C-260 (F4-12.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|---------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 44.962 | Suelocemento | 4.094 | 0.00 | 0.0 | AC32base50/70G | 1.400 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.989 | 0.00 | 0.0 | PA11 45/80-60C | 0.783 | 0.00 | 0.0 |
| | C31 | 0.920 | 0.00 | 0.0 | | | | |
| 60.000 | Suelocemento | 4.094 | 61.59 | 61.6 | AC32base50/70G | 1.400 | 21.06 | 21.1 |
| | AC22bin50/70S | 0.989 | 14.87 | 14.9 | PA11 45/80-60C | 0.783 | 11.77 | 11.8 |
| | C31 | 0.922 | 13.30 | 13.3 | | | | |
| 80.000 | Suelocemento | 4.094 | 81.89 | 143.5 | AC32base50/70G | 1.400 | 28.01 | 49.1 |
| | AC22bin50/70S | 0.989 | 19.77 | 34.6 | PA11 45/80-60C | 0.783 | 15.66 | 27.4 |
| | C31 | 0.996 | 19.31 | 32.6 | | | | |
| 100.000 | Suelocemento | 5.176 | 87.37 | 230.8 | AC32base50/70G | 1.780 | 29.94 | 79.0 |
| | AC22bin50/70S | 1.260 | 21.16 | 55.8 | PA11 45/80-60C | 1.000 | 16.76 | 44.2 |
| | C31 | 0.976 | 19.90 | 52.5 | | | | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 12 : E2 VIAL 2 C-260 (F4-12.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|----------------|---------|-----------------|
| SUBRASANTE | | 1592.8 |
| Suelocemento | 295.1 | 1393.8 |
| AC32base50/70G | 101.1 | 1370.1 |
| AC22bin50/70S | 71.4 | 1356.2 |
| PA11 45/80-60C | 56.6 | 1343.7 |
| C31 | 66.4 | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 13 : E2 RAMAL 3 (F4-13.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
 ***** CAPAS DE FIRME *****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 159.052 | Suelocemento | 1.233 | 0.00 | 0.0 | AC22bin50/70S | 0.427 | 0.00 | 0.0 |
| | PA11 50/70 | 0.211 | 0.00 | 0.0 | ZA (Arc) | 0.589 | 0.00 | 0.0 |
| | AC22bin50/70(a) | 0.214 | 0.00 | 0.0 | PA11 50/70(a) | 0.105 | 0.00 | 0.0 |
| | C31 | 0.782 | 0.00 | 0.0 | | | | |
| 160.000 | Suelocemento | 1.233 | 1.17 | 1.2 | AC22bin50/70S | 0.427 | 0.40 | 0.4 |
| | PA11 50/70 | 0.211 | 0.20 | 0.2 | ZA (Arc) | 0.589 | 0.56 | 0.6 |
| | AC22bin50/70(a) | 0.214 | 0.20 | 0.2 | PA11 50/70(a) | 0.105 | 0.10 | 0.1 |
| | C31 | 0.782 | 0.74 | 0.7 | | | | |
| 180.000 | Suelocemento | 1.233 | 24.66 | 25.8 | AC22bin50/70S | 0.427 | 8.54 | 8.9 |
| | PA11 50/70 | 0.211 | 4.22 | 4.4 | ZA (Arc) | 0.589 | 11.78 | 12.3 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 4.5 | PA11 50/70(a) | 0.105 | 2.10 | 2.2 |
| | C31 | 0.780 | 15.63 | 16.4 | | | | |
| 200.000 | Suelocemento | 1.233 | 24.66 | 50.5 | AC22bin50/70S | 0.427 | 8.54 | 17.5 |
| | PA11 50/70 | 0.211 | 4.22 | 8.6 | ZA (Arc) | 0.589 | 11.77 | 24.1 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 8.8 | PA11 50/70(a) | 0.105 | 2.10 | 4.3 |
| | C31 | 0.780 | 15.60 | 32.0 | | | | |
| 220.000 | Suelocemento | 1.233 | 24.66 | 75.1 | AC22bin50/70S | 0.427 | 8.54 | 26.0 |
| | PA11 50/70 | 0.211 | 4.22 | 12.9 | ZA (Arc) | 0.589 | 11.77 | 35.9 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 13.1 | PA11 50/70(a) | 0.105 | 2.10 | 6.4 |
| | C31 | 0.780 | 15.60 | 47.6 | | | | |
| 240.000 | Suelocemento | 1.310 | 25.38 | 100.5 | AC22bin50/70S | 0.438 | 8.64 | 34.7 |
| | PA11 50/70 | 0.212 | 4.23 | 17.1 | ZA (Arc) | 0.589 | 11.78 | 47.7 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 17.3 | PA11 50/70(a) | 0.105 | 2.10 | 8.5 |
| | C31 | 0.890 | 15.99 | 63.6 | | | | |
| 260.000 | Suelocemento | 1.233 | 25.09 | 125.6 | AC22bin50/70S | 0.427 | 8.60 | 43.3 |
| | PA11 50/70 | 0.211 | 4.23 | 21.3 | ZA (Arc) | 0.589 | 11.78 | 59.4 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 21.6 | PA11 50/70(a) | 0.105 | 2.10 | 10.6 |
| | C31 | 0.780 | 15.23 | 78.8 | | | | |
| 280.000 | Suelocemento | 1.232 | 24.65 | 150.3 | AC22bin50/70S | 0.427 | 8.54 | 51.8 |
| | PA11 50/70 | 0.211 | 4.22 | 25.5 | ZA (Arc) | 0.589 | 11.77 | 71.2 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 25.9 | PA11 50/70(a) | 0.105 | 2.10 | 12.7 |
| | C31 | 0.780 | 15.60 | 94.4 | | | | |
| 300.000 | Suelocemento | 1.310 | 25.91 | 176.2 | AC22bin50/70S | 0.438 | 8.72 | 60.5 |
| | PA11 50/70 | 0.212 | 4.24 | 29.8 | ZA (Arc) | 0.589 | 11.77 | 83.0 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 30.2 | PA11 50/70(a) | 0.105 | 2.10 | 14.8 |
| | C31 | 1.136 | 21.43 | 115.8 | | | | |
| 320.000 | Suelocemento | 1.341 | 26.37 | 202.6 | AC22bin50/70S | 0.449 | 8.82 | 69.3 |
| | PA11 50/70 | 0.218 | 4.27 | 34.1 | ZA (Arc) | 0.557 | 11.73 | 94.7 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 34.5 | PA11 50/70(a) | 0.105 | 2.10 | 16.9 |
| | C31 | 0.372 | 22.15 | 138.0 | | | | |
| 340.000 | Suelocemento | 1.397 | 27.38 | 229.9 | AC22bin50/70S | 0.470 | 9.19 | 78.5 |
| | PA11 50/70 | 0.228 | 4.46 | 38.5 | ZA (Arc) | 0.589 | 11.77 | 106.5 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 38.8 | PA11 50/70(a) | 0.105 | 2.10 | 19.0 |
| | C31 | 0.643 | 12.56 | 150.5 | | | | |
| 360.000 | Suelocemento | 1.443 | 28.48 | 258.4 | AC22bin50/70S | 0.487 | 9.59 | 88.1 |
| | PA11 50/70 | 0.236 | 4.66 | 43.2 | ZA (Arc) | 0.589 | 11.78 | 118.3 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 43.0 | PA11 50/70(a) | 0.105 | 2.10 | 21.1 |
| | C31 | 0.637 | 12.79 | 163.3 | | | | |
| 380.000 | Suelocemento | 1.444 | 28.86 | 287.3 | AC22bin50/70S | 0.487 | 9.73 | 97.9 |
| | PA11 50/70 | 0.236 | 4.73 | 47.9 | ZA (Arc) | 0.589 | 11.78 | 130.0 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 47.3 | PA11 50/70(a) | 0.105 | 2.10 | 23.2 |
| | C31 | 0.654 | 12.80 | 176.1 | | | | |
| 400.000 | Suelocemento | 1.447 | 28.91 | 316.2 | AC22bin50/70S | 0.487 | 9.73 | 107.6 |
| | PA11 50/70 | 0.236 | 4.73 | 52.6 | ZA (Arc) | 0.588 | 11.77 | 141.8 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 51.6 | PA11 50/70(a) | 0.105 | 2.10 | 25.3 |
| | C31 | 0.699 | 13.58 | 189.7 | | | | |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 13 : E2 RAMAL 3 (F4-13.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2637.9 |
| Suelocemento | 321.2 | 1355.6 |
| AC22bin50/70S | 109.3 | 1287.5 |
| PA11 50/70 | 53.5 | 1265.7 |
| ZA (Arc) | 143.9 | 624.4 |
| AC22bin50/70(a) | 52.3 | 623.9 |
| PA11 50/70(a) | 25.7 | 612.3 |
| C31 | 191.5 | |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 15 : E2 RAMAL 2 (F4-15.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
 ***** CAPAS DE FIRME *****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 24.808 | Suelocemento | 1.775 | 0.00 | 0.0 | AC22bin50/70S | 0.606 | 0.00 | 0.0 |
| | PA11 50/70 | 0.296 | 0.00 | 0.0 | ZA (Arc) | 0.587 | 0.00 | 0.0 |
| | AC22bin50/70(a) | 0.214 | 0.00 | 0.0 | PA11 50/70(a) | 0.105 | 0.00 | 0.0 |
| | C31 | 0.910 | 0.00 | 0.0 | | | | |
| 40.000 | Suelocemento | 1.776 | 26.98 | 27.0 | AC22bin50/70S | 0.606 | 9.20 | 9.2 |
| | PA11 50/70 | 0.296 | 4.49 | 4.5 | ZA (Arc) | 0.586 | 8.91 | 8.9 |
| | AC22bin50/70(a) | 0.214 | 3.25 | 3.3 | PA11 50/70(a) | 0.105 | 1.60 | 1.6 |
| | C31 | 0.909 | 13.82 | 13.8 | | | | |
| 60.000 | Suelocemento | 1.623 | 33.99 | 61.0 | AC22bin50/70S | 0.550 | 11.56 | 20.8 |
| | PA11 50/70 | 0.268 | 5.63 | 10.1 | ZA (Arc) | 0.577 | 11.74 | 20.6 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 7.5 | PA11 50/70(a) | 0.105 | 2.10 | 3.7 |
| | C31 | 0.481 | 16.50 | 30.3 | | | | |
| 80.000 | Suelocemento | 1.470 | 30.93 | 91.9 | AC22bin50/70S | 0.494 | 10.44 | 31.2 |
| | PA11 50/70 | 0.240 | 5.07 | 15.2 | ZA (Arc) | 0.584 | 11.62 | 32.3 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 11.8 | PA11 50/70(a) | 0.105 | 2.10 | 5.8 |
| | C31 | 0.751 | 14.84 | 45.2 | | | | |
| 100.000 | Suelocemento | 1.317 | 27.87 | 119.8 | AC22bin50/70S | 0.438 | 9.31 | 40.5 |
| | PA11 50/70 | 0.212 | 4.51 | 19.7 | ZA (Arc) | 0.583 | 11.67 | 43.9 |
| | AC22bin50/70(a) | 0.214 | 4.29 | 16.1 | PA11 50/70(a) | 0.105 | 2.10 | 7.9 |
| | C31 | 0.811 | 15.92 | 61.1 | | | | |
| 120.000 | Suelocemento | 1.318 | 26.25 | 146.0 | AC22bin50/70S | 0.438 | 8.75 | 49.3 |
| | PA11 50/70 | 0.212 | 4.23 | 24.0 | ZA (Arc) | 0.582 | 11.65 | 55.6 |
| | AC22bin50/70(a) | 0.214 | 4.29 | 20.4 | PA11 50/70(a) | 0.105 | 2.10 | 10.0 |
| | C31 | 0.823 | 13.35 | 74.4 | | | | |
| 140.000 | Suelocemento | 1.319 | 26.38 | 172.4 | AC22bin50/70S | 0.438 | 8.75 | 58.0 |
| | PA11 50/70 | 0.212 | 4.24 | 28.2 | ZA (Arc) | 0.581 | 11.63 | 67.2 |
| | AC22bin50/70(a) | 0.215 | 4.29 | 24.7 | PA11 50/70(a) | 0.105 | 2.10 | 12.1 |
| | C31 | 0.824 | 16.53 | 91.0 | | | | |
| 160.000 | Suelocemento | 1.319 | 26.38 | 198.8 | AC22bin50/70S | 0.438 | 8.75 | 66.8 |
| | PA11 50/70 | 0.212 | 4.23 | 32.4 | ZA (Arc) | 0.580 | 11.61 | 78.8 |
| | AC22bin50/70(a) | 0.215 | 4.29 | 29.0 | PA11 50/70(a) | 0.105 | 2.10 | 14.2 |
| | C31 | 0.892 | 16.51 | 107.5 | | | | |
| 180.000 | Suelocemento | 1.319 | 26.38 | 225.2 | AC22bin50/70S | 0.438 | 8.75 | 75.5 |
| | PA11 50/70 | 0.212 | 4.24 | 36.7 | ZA (Arc) | 0.580 | 11.60 | 90.4 |
| | AC22bin50/70(a) | 0.215 | 4.29 | 33.3 | PA11 50/70(a) | 0.105 | 2.10 | 16.3 |
| | C31 | 0.892 | 17.85 | 125.3 | | | | |
| 200.000 | Suelocemento | 1.319 | 26.39 | 251.5 | AC22bin50/70S | 0.437 | 8.75 | 84.3 |
| | PA11 50/70 | 0.212 | 4.24 | 40.9 | ZA (Arc) | 0.580 | 11.60 | 102.0 |
| | AC22bin50/70(a) | 0.214 | 4.29 | 37.6 | PA11 50/70(a) | 0.105 | 2.10 | 18.4 |
| | C31 | 0.892 | 17.84 | 143.2 | | | | |
| 220.000 | Suelocemento | 1.319 | 26.38 | 277.9 | AC22bin50/70S | 0.438 | 8.75 | 93.0 |
| | PA11 50/70 | 0.212 | 4.23 | 45.1 | ZA (Arc) | 0.580 | 11.60 | 113.6 |
| | AC22bin50/70(a) | 0.215 | 4.29 | 41.9 | PA11 50/70(a) | 0.105 | 2.10 | 20.5 |
| | C31 | 0.892 | 15.59 | 158.7 | | | | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 15 : E2 RAMAL 2 (F4-15.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2284.1 |
| Suelocemento | 284.1 | 1188.5 |
| AC22bin50/70S | 95.1 | 1116.7 |
| PA11 50/70 | 46.1 | 1090.7 |
| ZA (Arc) | 116.3 | 510.0 |
| AC22bin50/70(a) | 42.9 | 510.1 |
| PA11 50/70(a) | 21.0 | 500.2 |
| C31 | 162.9 | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 16 : E2 RAMAL 4 (F4-16_2.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 28.000 | Suelocemento | 1.631 | 0.00 | 0.0 | AC32base50/70G | 0.540 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.377 | 0.00 | 0.0 | PA11 45/80-60C | 0.296 | 0.00 | 0.0 |
| | ZA (Arc) | 0.731 | 0.00 | 0.0 | AC22bin50/70(a) | 0.134 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.105 | 0.00 | 0.0 | C31 | 0.702 | 0.00 | 0.0 |
| 40.000 | Suelocemento | 1.628 | 19.55 | 19.6 | AC32base50/70G | 0.541 | 6.49 | 6.5 |
| | AC22bin50/70S | 0.377 | 4.53 | 4.5 | PA11 45/80-60C | 0.296 | 3.55 | 3.6 |
| | ZA (Arc) | 0.731 | 8.77 | 8.8 | AC22bin50/70(a) | 0.134 | 1.60 | 1.6 |
| | PA1145/80-60(a) | 0.105 | 1.26 | 1.3 | C31 | 0.669 | 8.22 | 8.2 |
| 60.000 | Suelocemento | 1.628 | 32.56 | 32.6 | AC32base50/70G | 0.541 | 10.81 | 10.8 |
| | AC22bin50/70S | 0.377 | 7.55 | 7.6 | PA11 45/80-60C | 0.296 | 5.92 | 5.9 |
| | ZA (Arc) | 0.731 | 14.62 | 14.7 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.669 | 13.38 | 13.4 |
| 80.000 | Suelocemento | 1.482 | 31.10 | 31.2 | AC32base50/70G | 0.490 | 10.30 | 10.3 |
| | AC22bin50/70S | 0.341 | 7.18 | 7.2 | PA11 45/80-60C | 0.267 | 5.63 | 5.6 |
| | ZA (Arc) | 0.731 | 14.62 | 14.7 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.669 | 13.38 | 13.4 |
| 100.000 | Suelocemento | 1.327 | 28.17 | 28.2 | AC32base50/70G | 0.435 | 9.27 | 9.3 |
| | AC22bin50/70S | 0.302 | 6.45 | 6.5 | PA11 45/80-60C | 0.236 | 5.05 | 5.1 |
| | ZA (Arc) | 0.731 | 14.54 | 14.6 | AC22bin50/70(a) | 0.134 | 2.67 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.925 | 16.93 | 17.0 |
| 120.000 | Suelocemento | 1.196 | 24.63 | 24.7 | AC32base50/70G | 0.401 | 8.24 | 8.2 |
| | AC22bin50/70S | 0.284 | 5.81 | 5.8 | PA11 45/80-60C | 0.225 | 4.60 | 4.6 |
| | ZA (Arc) | 0.731 | 14.62 | 14.7 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.565 | 12.20 | 12.2 |
| 140.000 | Suelocemento | 1.146 | 23.43 | 23.5 | AC32base50/70G | 0.384 | 7.85 | 7.8 |
| | AC22bin50/70S | 0.271 | 5.55 | 5.6 | PA11 45/80-60C | 0.215 | 4.40 | 4.4 |
| | ZA (Arc) | 0.731 | 14.62 | 14.7 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.565 | 11.30 | 11.3 |
| 160.000 | Suelocemento | 1.208 | 23.38 | 23.4 | AC32base50/70G | 0.394 | 7.72 | 7.7 |
| | AC22bin50/70S | 0.272 | 5.40 | 5.4 | PA11 45/80-60C | 0.212 | 4.25 | 4.3 |
| | ZA (Arc) | 0.731 | 14.62 | 14.7 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.932 | 14.79 | 14.8 |
| 180.000 | Suelocemento | 1.208 | 24.16 | 24.2 | AC32base50/70G | 0.394 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.45 | 5.5 | PA11 45/80-60C | 0.212 | 4.24 | 4.2 |
| | ZA (Arc) | 0.731 | 14.62 | 14.7 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 1.047 | 20.88 | 20.9 |
| 200.000 | Suelocemento | 1.209 | 24.16 | 24.2 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.45 | 5.5 | PA11 45/80-60C | 0.212 | 4.24 | 4.2 |
| | ZA (Arc) | 0.731 | 14.62 | 14.7 | AC22bin50/70(a) | 0.134 | 2.67 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 1.064 | 21.03 | 21.0 |
| 220.000 | Suelocemento | 1.211 | 24.20 | 24.2 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.45 | 5.5 | PA11 45/80-60C | 0.212 | 4.24 | 4.2 |
| | ZA (Arc) | 0.731 | 14.61 | 14.6 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 1.096 | 21.60 | 21.6 |
| 240.000 | Suelocemento | 1.214 | 24.25 | 24.3 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.4 | PA11 45/80-60C | 0.212 | 4.24 | 4.2 |
| | ZA (Arc) | 0.729 | 14.60 | 14.6 | AC22bin50/70(a) | 0.134 | 2.67 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 1.100 | 22.00 | 22.0 |
| 260.000 | Suelocemento | 1.125 | 23.79 | 23.8 | AC32base50/70G | 0.377 | 7.77 | 7.8 |
| | AC22bin50/70S | 0.266 | 5.41 | 5.4 | PA11 45/80-60C | 0.211 | 4.23 | 4.2 |
| | ZA (Arc) | 0.727 | 14.56 | 14.6 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.495 | 18.69 | 18.7 |
| 280.000 | Suelocemento | 1.126 | 22.50 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.53 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.61 | 9.6 |
| 300.000 | Suelocemento | 1.126 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.44 | 9.4 |
| 320.000 | Suelocemento | 1.126 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.44 | 9.4 |
| 340.000 | Suelocemento | 1.126 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.44 | 9.4 |
| 360.000 | Suelocemento | 1.126 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.44 | 9.4 |
| 380.000 | Suelocemento | 1.125 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.44 | 9.4 |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 16 : E2 RAMAL 4 (F4-16_2.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 400.000 | Suelocemento | 1.126 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.44 | 9.4 |
| 420.000 | Suelocemento | 1.126 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.44 | 9.4 |
| 440.000 | Suelocemento | 1.126 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | 0.266 | 5.32 | 5.3 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 9.44 | 9.4 |
| 460.000 | Suelocemento | 1.217 | 22.83 | 22.8 | AC32base50/70G | 0.393 | 7.59 | 7.6 |
| | AC22bin50/70S | 0.272 | 5.34 | 5.3 | PA11 45/80-60C | 0.212 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.717 | 10.30 | 10.3 |
| 480.000 | Suelocemento | 1.217 | 24.35 | 24.4 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.4 | PA11 45/80-60C | 0.212 | 4.23 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.717 | 14.34 | 14.3 |
| 500.000 | Suelocemento | 1.217 | 24.35 | 24.4 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.4 | PA11 45/80-60C | 0.212 | 4.23 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.717 | 14.34 | 14.3 |
| 520.000 | Suelocemento | 1.217 | 24.35 | 24.4 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.4 | PA11 45/80-60C | 0.212 | 4.23 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.717 | 14.34 | 14.3 |
| 540.000 | Suelocemento | 1.217 | 24.35 | 24.4 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.4 | PA11 45/80-60C | 0.212 | 4.23 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.717 | 14.34 | 14.3 |
| 560.000 | Suelocemento | 1.217 | 24.35 | 24.4 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.4 | PA11 45/80-60C | 0.212 | 4.23 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.717 | 14.34 | 14.3 |
| 580.000 | Suelocemento | 1.217 | 24.35 | 24.4 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.4 | PA11 45/80-60C | 0.212 | 4.23 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.717 | 14.34 | 14.3 |
| 600.000 | Suelocemento | 1.217 | 24.35 | 24.4 | AC32base50/70G | 0.393 | 7.87 | 7.9 |
| | AC22bin50/70S | 0.272 | 5.44 | 5.4 | PA11 45/80-60C | 0.212 | 4.23 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.717 | 14.34 | 14.3 |
| 620.000 | Suelocemento | 1.126 | 23.11 | 23.1 | AC32base50/70G | 0.377 | 7.64 | 7.6 |
| | AC22bin50/70S | 0.266 | 5.36 | 5.4 | PA11 45/80-60C | 0.211 | 4.22 | 4.2 |
| | ZA (Arc) | 0.726 | 14.52 | 14.5 | AC22bin50/70(a) | 0.134 | 2.68 | 2.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.2 | C31 | 0.472 | 11.03 | 11.0 |
| 640.000 | Suelocemento | 1.125 | 22.51 | 22.5 | AC32base50/70G | 0.377 | 7.53 | 7.5 |
| | AC22bin50/70S | | | | | | | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 19 : E2 RAMAL 5 (19.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 23.693 | Suelocemento | 2.008 | 0.00 | 0.0 | AC22bin50/70S | 0.691 | 0.00 | 0.0 |
| | PA11 50/70 | 0.336 | 0.00 | 0.0 | C31 | 0.879 | 0.00 | 0.0 |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 19 : E2 RAMAL 5 (19.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|---------------|---------|-----------------|
| SUBRASANTE | | 141.0 |
| Suelocemento | 24.7 | 104.5 |
| AC22bin50/70S | 8.5 | 100.0 |
| PA11 50/70 | 4.1 | 97.7 |
| C31 | 9.9 | |

Istram 22.11.11.15 21/11/22 10:31:53 200315
 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 21 : E2 RAMAL 1 (F4-21.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 152.615 | Suelocemento | 1.221 | 0.00 | 0.0 | AC32base50/70G | 0.393 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.272 | 0.00 | 0.0 | PA11 45/80-60C | 0.212 | 0.00 | 0.0 |
| | ZA (Arc) | 0.723 | 0.00 | 0.0 | AC22bin50/70(a) | 0.134 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.105 | 0.00 | 0.0 | C31 | 0.862 | 0.00 | 0.0 |
| 160.000 | Suelocemento | 1.221 | 9.02 | 9.0 | AC32base50/70G | 0.393 | 2.90 | 2.9 |
| | AC22bin50/70S | 0.272 | 2.01 | 2.0 | PA11 45/80-60C | 0.212 | 1.56 | 1.6 |
| | ZA (Arc) | 0.723 | 5.34 | 5.3 | AC22bin50/70(a) | 0.134 | 0.99 | 1.0 |
| | PA1145/80-60(a) | 0.105 | 0.78 | 0.8 | C31 | 0.861 | 6.36 | 6.4 |
| 180.000 | Suelocemento | 1.222 | 24.43 | 33.5 | AC32base50/70G | 0.393 | 7.86 | 10.8 |
| | AC22bin50/70S | 0.272 | 5.43 | 7.4 | PA11 45/80-60C | 0.212 | 4.25 | 5.8 |
| | ZA (Arc) | 0.722 | 14.45 | 19.8 | AC22bin50/70(a) | 0.134 | 2.68 | 3.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.9 | C31 | 0.857 | 17.18 | 23.5 |
| 200.000 | Suelocemento | 1.222 | 24.45 | 57.9 | AC32base50/70G | 0.393 | 7.87 | 18.6 |
| | AC22bin50/70S | 0.272 | 5.44 | 12.9 | PA11 45/80-60C | 0.212 | 4.24 | 10.0 |
| | ZA (Arc) | 0.722 | 14.44 | 34.2 | AC22bin50/70(a) | 0.134 | 2.68 | 6.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 5.0 | C31 | 0.856 | 17.11 | 40.7 |
| 220.000 | Suelocemento | 1.222 | 24.45 | 82.3 | AC32base50/70G | 0.393 | 7.87 | 26.5 |
| | AC22bin50/70S | 0.272 | 5.44 | 18.3 | PA11 45/80-60C | 0.212 | 4.24 | 14.3 |
| | ZA (Arc) | 0.722 | 14.45 | 48.7 | AC22bin50/70(a) | 0.134 | 2.68 | 9.0 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 7.1 | C31 | 0.856 | 17.11 | 57.8 |
| 240.000 | Suelocemento | 1.222 | 24.45 | 106.8 | AC32base50/70G | 0.393 | 7.87 | 34.4 |
| | AC22bin50/70S | 0.272 | 5.44 | 23.7 | PA11 45/80-60C | 0.212 | 4.24 | 18.5 |
| | ZA (Arc) | 0.722 | 14.44 | 63.1 | AC22bin50/70(a) | 0.134 | 2.68 | 11.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 9.2 | C31 | 0.856 | 17.11 | 74.9 |
| 260.000 | Suelocemento | 1.222 | 24.45 | 131.2 | AC32base50/70G | 0.393 | 7.87 | 42.2 |
| | AC22bin50/70S | 0.272 | 5.44 | 29.2 | PA11 45/80-60C | 0.212 | 4.24 | 22.8 |
| | ZA (Arc) | 0.722 | 14.44 | 77.6 | AC22bin50/70(a) | 0.134 | 2.68 | 14.4 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 11.3 | C31 | 0.856 | 17.11 | 92.0 |
| 280.000 | Suelocemento | 1.222 | 24.44 | 155.7 | AC32base50/70G | 0.393 | 7.86 | 50.1 |
| | AC22bin50/70S | 0.271 | 5.44 | 34.6 | PA11 45/80-60C | 0.212 | 4.24 | 27.0 |
| | ZA (Arc) | 0.722 | 14.45 | 92.0 | AC22bin50/70(a) | 0.134 | 2.68 | 17.1 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 13.4 | C31 | 0.859 | 17.13 | 109.1 |
| 300.000 | Suelocemento | 1.221 | 24.43 | 180.1 | AC32base50/70G | 0.393 | 7.87 | 58.0 |
| | AC22bin50/70S | 0.272 | 5.43 | 40.1 | PA11 45/80-60C | 0.212 | 4.24 | 31.2 |
| | ZA (Arc) | 0.723 | 14.46 | 106.5 | AC22bin50/70(a) | 0.134 | 2.68 | 19.7 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 15.5 | C31 | 0.864 | 17.23 | 126.4 |
| 320.000 | Suelocemento | 1.182 | 24.40 | 204.5 | AC32base50/70G | 0.393 | 7.87 | 65.8 |
| | AC22bin50/70S | 0.272 | 5.44 | 45.5 | PA11 45/80-60C | 0.212 | 4.23 | 35.5 |
| | ZA (Arc) | 0.724 | 14.47 | 120.9 | AC22bin50/70(a) | 0.134 | 2.68 | 22.4 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 17.6 | C31 | 0.462 | 15.96 | 142.3 |
| 340.000 | Suelocemento | 1.316 | 25.30 | 229.8 | AC32base50/70G | 0.426 | 8.18 | 74.0 |
| | AC22bin50/70S | 0.295 | 5.67 | 51.2 | PA11 45/80-60C | 0.230 | 4.42 | 39.9 |

| | | | | | | | | |
|---------|-----------------|-------|-------|-------|-----------------|-------|-------|-------|
| | ZA (Arc) | 0.725 | 14.49 | 135.4 | AC22bin50/70(a) | 0.134 | 2.68 | 25.1 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 19.7 | C31 | 0.759 | 14.72 | 157.0 |
| 360.000 | Suelocemento | 1.409 | 27.25 | 257.1 | AC32base50/70G | 0.459 | 8.84 | 82.9 |
| | AC22bin50/70S | 0.319 | 6.14 | 57.3 | PA11 45/80-60C | 0.249 | 4.79 | 44.7 |
| | ZA (Arc) | 0.730 | 14.39 | 149.8 | AC22bin50/70(a) | 0.134 | 2.68 | 27.8 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 21.8 | C31 | 0.485 | 12.94 | 170.0 |
| 380.000 | Suelocemento | 1.495 | 29.06 | 286.1 | AC32base50/70G | 0.489 | 9.48 | 92.3 |
| | AC22bin50/70S | 0.340 | 6.59 | 63.9 | PA11 45/80-60C | 0.266 | 5.16 | 49.8 |
| | ZA (Arc) | 0.726 | 14.54 | 164.4 | AC22bin50/70(a) | 0.134 | 2.68 | 30.5 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 23.9 | C31 | 0.799 | 14.97 | 184.9 |
| 400.000 | Suelocemento | 1.508 | 30.70 | 316.8 | AC32base50/70G | 0.511 | 10.07 | 102.4 |
| | AC22bin50/70S | 0.361 | 7.02 | 70.9 | PA11 45/80-60C | 0.283 | 5.49 | 55.3 |
| | ZA (Arc) | 0.730 | 14.56 | 178.9 | AC22bin50/70(a) | 0.134 | 2.68 | 33.1 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 26.0 | C31 | 0.565 | 15.97 | 200.9 |

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 PROYECTO :
 GRUPO : 3 : E2-ENLACE C-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 21 : E2 RAMAL 1 (F4-21.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2877.6 |
| Suelocemento | 338.6 | 1562.0 |
| AC32base50/70G | 109.6 | 1473.6 |
| AC22bin50/70S | 75.9 | 1434.6 |
| PA11 45/80-60C | 59.3 | 1400.6 |
| ZA (Arc) | 188.9 | 691.8 |
| AC22bin50/70(a) | 35.0 | 665.9 |
| PA1145/80-60(a) | 27.4 | 652.9 |
| C31 | 213.5 | |

Istram 22.11.11.15 21/11/22 10:31:54 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 22 : E3 GLORIETA 1 (22.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.483 | 0.00 | 0.0 | AC32base50/70G | 0.837 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.589 | 0.00 | 0.0 | PA11 45/80-60C | 0.466 | 0.00 | 0.0 |
| | ZA (Arc) | 0.445 | 0.00 | 0.0 | AC22bin50/70(a) | 0.081 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.063 | 0.00 | 0.0 | C31 | 0.960 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 2.413 | 55.31 | 55.3 | AC32base50/70G | 0.813 | 18.73 | 18.7 |
| | AC22bin50/70S | 0.572 | 13.20 | 13.2 | PA11 45/80-60C | 0.452 | 10.44 | 10.4 |
| | ZA (Arc) | 0.445 | 8.90 | 8.9 | AC22bin50/70(a) | 0.081 | 1.63 | 1.6 |
| | PA1145/80-60(a) | 0.063 | 1.26 | 1.3 | C31 | 0.960 | 19.20 | 19.2 |
| 40.000 | Suelocemento | 3.160 | 45.29 | 100.6 | AC32base50/70G | 1.075 | 15.22 | 33.9 |
| | AC22bin50/70S | 0.759 | 10.69 | 23.9 | PA11 45/80-60C | 0.601 | 8.44 | 18.9 |
| | ZA (Arc) | 0.946 | 11.51 | 20.4 | AC22bin50/70(a) | 0.174 | 2.11 | 3.7 |
| | PA1145/80-60(a) | 0.137 | 1.65 | 2.9 | C31 | 0.960 | 19.20 | 38.4 |
| 60.000 | Suelocemento | 2.744 | 53.11 | 153.7 | AC32base50/70G | 0.929 | 17.96 | 51.9 |
| | AC22bin50/70S | 0.655 | 12.65 | 36.5 | PA11 45/80-60C | 0.518 | 10.00 | 28.9 |
| | ZA (Arc) | 0.837 | 12.60 | 33.0 | AC22bin50/70(a) | 0.154 | 2.31 | 6.0 |
| | PA1145/80-60(a) | 0.121 | 1.81 | 4.7 | C31 | 0.960 | 19.20 | 57.6 |
| 80.000 | Suelocemento | 2.157 | 42.57 | 196.3 | AC32base50/70G | 0.723 | 14.27 | 66.2 |
| | AC22bin50/70S | 0.508 | 10.01 | 46.6 | PA11 45/80-60C | 0.400 | 7.89 | 36.8 |
| | ZA (Arc) | 0.445 | 10.05 | 43.1 | AC22bin50/70(a) | 0.081 | 1.84 | 7.9 |
| | PA1145/80-60(a) | 0.063 | 1.43 | 6.1 | C31 | 0.960 | 19.20 | 76.8 |
| 100.000 | Suelocemento | 2.687 | 54.11 | 250.4 | AC32base50/70G | 0.909 | 18.31 | 84.5 |
| | AC22bin50/70S | 0.640 | 12.90 | 59.5 | PA11 45/80-60C | 0.507 | 10.20 | 47.0 |
| | ZA (Arc) | 0.445 | 8.90 | 52.0 | AC22bin50/70(a) | 0.081 | 1.63 | 9.5 |
| | PA1145/80-60(a) | 0.063 | 1.26 | 7.4 | C31 | 0.960 | 19.20 | 96.0 |
| 120.000 | Suelocemento | 2.054 | 45.51 | 295.9 | AC32base50/70G | 0.687 | 15.30 | 99.8 |
| | AC22bin50/70S | 0.482 | 10.75 | 70.2 | PA11 45/80-60C | 0.380 | 8.48 | 55.5 |
| | ZA (Arc) | 0.445 | 8.90 | 60.9 | AC22bin50/70(a) | 0.081 | 1.63 | 11.1 |
| | PA1145/80-60(a) | 0.063 | 1.26 | 8.7 | C31 | 0.960 | 19.20 | 115.2 |
| 140.000 | Suelocemento | 2.054 | 41.08 | 337.0 | AC32base50/70G | 0.687 | 13.75 | 113.5 |
| | AC22bin50/70S | 0.482 | 9.64 | 79.9 | PA11 45/80-60C | 0.380 | 7.60 | 63.1 |
| | ZA (Arc) | 0.445 | 8.90 | 69.8 | AC22bin50/70(a) | 0.081 | 1.63 | 12.8 |
| | PA1145/80-60(a) | 0.063 | 1.26 | 9.9 | C31 | 0.960 | 19.20 | 134.4 |
| 160.000 | Suelocemento | 2.226 | 41.34 | 378.3 | AC32base50/70G | 0.748 | 13.84 | 127.4 |
| | AC22bin50/70S | 0.525 | 9.71 | 89.6 | PA11 45/80-60C | 0.414 | 7.65 | 70.7 |
| | ZA (Arc) | 0.445 | 8.90 | 78.7 | AC22bin50/70(a) | 0.081 | 1.63 | 14.4 |
| | PA1145/80-60(a) | 0.063 | 1.26 | 11.2 | C31 | 0.960 | 19.20 | 153.6 |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 22 : E3 GLORIETA 1 (22.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2621.6 |
| Suelocemento | 386.3 | 1813.8 |
| AC32base50/70G | 130.1 | 1758.2 |
| AC22bin50/70S | 91.5 | 1733.7 |
| PA11 45/80-60C | 72.2 | 1712.5 |
| ZA (Arc) | 80.1 | 295.6 |
| AC22bin50/70(a) | 14.7 | 279.4 |
| PA1145/80-60(a) | 11.4 | 271.4 |
| C31 | 156.8 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 24 : E3 RAMAL 4 (24_V1.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 18.050 | Suelocemento | 1.641 | 0.00 | 0.0 | AC32base50/70G | 0.540 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.377 | 0.00 | 0.0 | PA11 45/80-60C | 0.296 | 0.00 | 0.0 |
| | ZA (Arc) | 0.728 | 0.00 | 0.0 | AC22bin50/70(a) | 0.134 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.105 | 0.00 | 0.0 | C31 | 0.744 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 1.640 | 3.20 | 3.2 | AC32base50/70G | 0.540 | 1.05 | 1.1 |
| | AC22bin50/70S | 0.377 | 0.74 | 0.7 | PA11 45/80-60C | 0.296 | 0.58 | 0.6 |
| | ZA (Arc) | 0.728 | 1.42 | 1.4 | AC22bin50/70(a) | 0.134 | 0.26 | 0.3 |
| | PA1145/80-60(a) | 0.105 | 0.20 | 0.2 | C31 | 0.749 | 1.46 | 1.5 |
| 40.000 | Suelocemento | 1.635 | 31.73 | 34.9 | AC32base50/70G | 0.540 | 10.44 | 11.5 |
| | AC22bin50/70S | 0.377 | 7.28 | 8.0 | PA11 45/80-60C | 0.296 | 5.71 | 6.3 |
| | ZA (Arc) | 0.731 | 14.59 | 16.0 | AC22bin50/70(a) | 0.134 | 2.68 | 2.9 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 2.3 | C31 | 0.472 | 12.49 | 13.9 |
| 60.000 | Suelocemento | 1.432 | 30.40 | 65.3 | AC32base50/70G | 0.467 | 9.96 | 21.5 |
| | AC22bin50/70S | 0.325 | 6.94 | 15.0 | PA11 45/80-60C | 0.254 | 5.44 | 11.7 |
| | ZA (Arc) | 0.731 | 14.62 | 30.6 | AC22bin50/70(a) | 0.134 | 2.67 | 5.6 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 4.4 | C31 | 0.567 | 10.19 | 24.1 |
| 80.000 | Suelocemento | 1.432 | 28.65 | 94.0 | AC32base50/70G | 0.467 | 9.34 | 30.8 |
| | AC22bin50/70S | 0.325 | 6.49 | 21.5 | PA11 45/80-60C | 0.254 | 5.08 | 16.8 |
| | ZA (Arc) | 0.731 | 14.62 | 45.2 | AC22bin50/70(a) | 0.134 | 2.68 | 8.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 6.5 | C31 | 0.511 | 11.06 | 35.2 |
| 100.000 | Suelocemento | 1.642 | 29.70 | 123.7 | AC32base50/70G | 0.540 | 9.70 | 40.5 |
| | AC22bin50/70S | 0.377 | 6.76 | 28.2 | PA11 45/80-60C | 0.296 | 5.29 | 22.1 |
| | ZA (Arc) | 0.731 | 14.62 | 59.9 | AC22bin50/70(a) | 0.134 | 2.68 | 11.0 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 8.6 | C31 | 0.813 | 14.85 | 50.0 |
| 120.000 | Suelocemento | 1.629 | 32.71 | 156.4 | AC32base50/70G | 0.541 | 10.81 | 51.3 |
| | AC22bin50/70S | 0.377 | 7.55 | 35.8 | PA11 45/80-60C | 0.296 | 5.92 | 28.0 |
| | ZA (Arc) | 0.731 | 14.62 | 74.5 | AC22bin50/70(a) | 0.134 | 2.68 | 13.6 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 10.7 | C31 | 0.930 | 15.97 | 66.0 |
| 140.000 | Suelocemento | 1.631 | 32.60 | 189.0 | AC32base50/70G | 0.540 | 10.81 | 62.1 |
| | AC22bin50/70S | 0.377 | 7.55 | 43.3 | PA11 45/80-60C | 0.296 | 5.92 | 33.9 |
| | ZA (Arc) | 0.731 | 14.61 | 89.1 | AC22bin50/70(a) | 0.134 | 2.68 | 16.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 12.8 | C31 | 0.961 | 18.95 | 85.0 |
| 160.000 | Suelocemento | 1.633 | 32.64 | 221.6 | AC32base50/70G | 0.540 | 10.81 | 72.9 |
| | AC22bin50/70S | 0.377 | 7.54 | 50.8 | PA11 45/80-60C | 0.296 | 5.92 | 39.9 |
| | ZA (Arc) | 0.729 | 14.60 | 103.7 | AC22bin50/70(a) | 0.134 | 2.68 | 19.0 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 14.9 | C31 | 0.962 | 19.29 | 104.2 |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 24 : E3 RAMAL 4 (24_V1.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1883.6 |
| Suelocemento | 241.5 | 1124.7 |
| AC32base50/70G | 79.5 | 1072.2 |
| AC22bin50/70S | 55.4 | 1049.1 |
| PA11 45/80-60C | 43.5 | 1029.0 |
| ZA (Arc) | 112.6 | 408.3 |
| AC22bin50/70(a) | 20.6 | 393.3 |
| PA1145/80-60(a) | 16.2 | 385.9 |
| C31 | 115.9 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 25 : E3 RAMAL 3 (25_V1.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
 ***** CAPAS DE FIRME *****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 43.762 | Suelocemento | 1.577 | 0.00 | 0.0 | AC22bin50/70S | 0.535 | 0.00 | 0.0 |
| | PA11 50/70 | 0.261 | 0.00 | 0.0 | ZA (Arc) | 0.584 | 0.00 | 0.0 |
| | AC22bin50/70(a) | 0.214 | 0.00 | 0.0 | PA11 50/70(a) | 0.105 | 0.00 | 0.0 |
| | C31 | 0.458 | 0.00 | 0.0 | | | | |
| 60.000 | Suelocemento | 1.576 | 25.61 | 25.6 | AC22bin50/70S | 0.535 | 8.69 | 8.7 |
| | PA11 50/70 | 0.261 | 4.24 | 4.2 | ZA (Arc) | 0.584 | 9.49 | 9.5 |
| | AC22bin50/70(a) | 0.214 | 3.47 | 3.5 | PA11 50/70(a) | 0.105 | 1.70 | 1.7 |
| | C31 | 0.460 | 7.45 | 7.5 | | | | |
| 80.000 | Suelocemento | 1.568 | 31.47 | 57.1 | AC22bin50/70S | 0.533 | 10.69 | 19.4 |
| | PA11 50/70 | 0.260 | 5.22 | 9.5 | ZA (Arc) | 0.584 | 11.67 | 21.2 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 7.8 | PA11 50/70(a) | 0.105 | 2.10 | 3.8 |
| | C31 | 0.461 | 9.23 | 16.7 | | | | |
| 100.000 | Suelocemento | 1.534 | 31.11 | 88.2 | AC22bin50/70S | 0.526 | 10.59 | 30.0 |
| | PA11 50/70 | 0.257 | 5.16 | 14.6 | ZA (Arc) | 0.584 | 11.68 | 32.8 |
| | AC22bin50/70(a) | 0.214 | 4.29 | 12.0 | PA11 50/70(a) | 0.105 | 2.10 | 5.9 |
| | C31 | 0.458 | 9.19 | 25.9 | | | | |
| 120.000 | Suelocemento | 1.319 | 29.29 | 117.5 | AC22bin50/70S | 0.438 | 9.86 | 39.8 |
| | PA11 50/70 | 0.212 | 4.79 | 19.4 | ZA (Arc) | 0.585 | 11.70 | 44.5 |
| | AC22bin50/70(a) | 0.214 | 4.28 | 16.3 | PA11 50/70(a) | 0.105 | 2.10 | 8.0 |
| | C31 | 0.710 | 11.81 | 37.7 | | | | |
| 140.000 | Suelocemento | 1.319 | 26.38 | 143.9 | AC22bin50/70S | 0.438 | 8.75 | 48.6 |
| | PA11 50/70 | 0.212 | 4.23 | 23.7 | ZA (Arc) | 0.586 | 11.71 | 56.2 |
| | AC22bin50/70(a) | 0.214 | 4.29 | 20.6 | PA11 50/70(a) | 0.105 | 2.10 | 10.1 |
| | C31 | 0.706 | 14.16 | 51.8 | | | | |
| 160.000 | Suelocemento | 1.319 | 26.38 | 170.2 | AC22bin50/70S | 0.438 | 8.75 | 57.3 |
| | PA11 50/70 | 0.212 | 4.23 | 27.9 | ZA (Arc) | 0.587 | 11.73 | 68.0 |
| | AC22bin50/70(a) | 0.215 | 4.29 | 24.9 | PA11 50/70(a) | 0.105 | 2.10 | 12.2 |
| | C31 | 0.703 | 14.09 | 65.9 | | | | |
| 180.000 | Suelocemento | 1.563 | 28.79 | 199.0 | AC22bin50/70S | 0.526 | 9.63 | 67.0 |
| | PA11 50/70 | 0.256 | 4.67 | 32.6 | ZA (Arc) | 0.586 | 11.73 | 79.7 |
| | AC22bin50/70(a) | 0.214 | 4.29 | 29.2 | PA11 50/70(a) | 0.105 | 2.10 | 14.3 |
| | C31 | 0.706 | 14.08 | 80.0 | | | | |
| 200.000 | Suelocemento | 1.902 | 34.21 | 233.2 | AC22bin50/70S | 0.652 | 11.61 | 78.6 |
| | PA11 50/70 | 0.319 | 5.67 | 38.2 | ZA (Arc) | 0.585 | 11.71 | 91.4 |
| | AC22bin50/70(a) | 0.214 | 4.29 | 33.5 | PA11 50/70(a) | 0.105 | 2.10 | 16.4 |
| | C31 | 0.456 | 12.83 | 92.8 | | | | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 25 : E3 RAMAL 3 (25_V1.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1795.5 |
| Suelocemento | 246.2 | 1028.9 |
| AC22bin50/70S | 83.0 | 974.6 |
| PA11 50/70 | 40.4 | 955.5 |
| ZA (Arc) | 95.4 | 416.1 |
| AC22bin50/70(a) | 34.9 | 416.0 |
| PA11 50/70(a) | 17.1 | 408.0 |
| C31 | 95.9 | |

Istram 22.11.11.15 21/11/22 10:31:54 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 26 : E3 VIAL 2 N-260 (26.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
 ***** CAPAS DE FIRME *****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 1.771 | 0.00 | 0.0 | AC22bin50/70S | 0.602 | 0.00 | 0.0 |
| | PA11 50/70 | 0.296 | 0.00 | 0.0 | ZA (Arc) | 0.716 | 0.00 | 0.0 |
| | AC22bin50/70(a) | 0.260 | 0.00 | 0.0 | PA11 50/70(a) | 0.126 | 0.00 | 0.0 |
| | C31 | 0.492 | 0.00 | 0.0 | | | | |
| 20.000 | Suelocemento | 1.771 | 35.41 | 35.4 | AC22bin50/70S | 0.602 | 12.03 | 12.0 |
| | PA11 50/70 | 0.296 | 5.92 | 5.9 | ZA (Arc) | 0.714 | 14.31 | 14.3 |
| | AC22bin50/70(a) | 0.260 | 5.21 | 5.2 | PA11 50/70(a) | 0.126 | 2.52 | 2.5 |
| | C31 | 0.716 | 12.03 | 12.0 | | | | |
| 40.000 | Suelocemento | 1.859 | 35.61 | 71.0 | AC22bin50/70S | 0.634 | 12.10 | 24.1 |
| | PA11 50/70 | 0.312 | 5.95 | 11.9 | ZA (Arc) | 0.712 | 14.28 | 28.6 |
| | AC22bin50/70(a) | 0.260 | 5.21 | 10.4 | PA11 50/70(a) | 0.126 | 2.52 | 5.0 |
| | C31 | 0.954 | 10.10 | 22.1 | | | | |
| 60.000 | Suelocemento | 3.406 | 48.31 | 119.3 | AC22bin50/70S | 1.196 | 16.72 | 40.9 |
| | PA11 50/70 | 0.593 | 8.26 | 20.1 | ZA (Arc) | 0.709 | 14.21 | 42.8 |
| | AC22bin50/70(a) | 0.261 | 5.21 | 15.6 | PA11 50/70(a) | 0.126 | 2.52 | 7.6 |
| | C31 | 0.931 | 19.09 | 41.2 | | | | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 26 : E3 VIAL 2 N-260 (26.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1054.5 |
| Suelocemento | 155.6 | 657.7 |
| AC22bin50/70S | 53.6 | 631.9 |
| PA11 50/70 | 26.4 | 626.2 |
| ZA (Arc) | 51.1 | 222.3 |
| AC22bin50/70(a) | 18.7 | 222.2 |
| PA11 50/70(a) | 9.0 | 215.1 |
| C31 | 52.0 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 27 : E3 VIAL 1 N-260 (PI 7.0) (27.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
 ***** CAPAS DE FIRME *****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 0.151 | 0.00 | 0.0 | AC32base50/70G | 0.018 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.007 | 0.00 | 0.0 | PA11 45/80-60C | 0.002 | 0.00 | 0.0 |
| | ZA (Arc) | 0.886 | 0.00 | 0.0 | AC22bin50/70(a) | 0.163 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.126 | 0.00 | 0.0 | C31 | 0.962 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 1.900 | 51.71 | 51.7 | AC32base50/70G | 0.630 | 17.41 | 17.4 |
| | AC22bin50/70S | 0.444 | 12.31 | 12.3 | PA11 45/80-60C | 0.352 | 9.77 | 9.8 |
| | ZA (Arc) | 0.888 | 17.74 | 17.7 | AC22bin50/70(a) | 0.163 | 3.26 | 3.3 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 2.5 | C31 | 1.011 | 19.59 | 19.6 |
| 40.000 | Suelocemento | 1.622 | 33.44 | 85.1 | AC32base50/70G | 0.533 | 11.01 | 28.4 |
| | AC22bin50/70S | 0.375 | 7.74 | 20.0 | PA11 45/80-60C | 0.296 | 6.12 | 15.9 |
| | ZA (Arc) | 0.890 | 17.79 | 35.5 | AC22bin50/70(a) | 0.163 | 3.25 | 6.5 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 5.0 | C31 | 0.922 | 19.98 | 39.6 |
| 60.000 | Suelocemento | 1.622 | 32.44 | 117.6 | AC32base50/70G | 0.533 | 10.66 | 39.1 |
| | AC22bin50/70S | 0.375 | 7.49 | 27.5 | PA11 45/80-60C | 0.296 | 5.92 | 21.8 |
| | ZA (Arc) | 0.892 | 17.83 | 53.4 | AC22bin50/70(a) | 0.163 | 3.25 | 9.8 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 7.6 | C31 | 0.597 | 14.56 | 54.1 |
| 80.000 | Suelocemento | 1.622 | 32.44 | 150.0 | AC32base50/70G | 0.533 | 10.66 | 49.7 |
| | AC22bin50/70S | 0.375 | 7.49 | 35.0 | PA11 45/80-60C | 0.296 | 5.92 | 27.7 |
| | ZA (Arc) | 0.890 | 17.64 | 71.0 | AC22bin50/70(a) | 0.163 | 3.25 | 13.0 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 10.1 | C31 | 0.881 | 12.21 | 66.4 |
| 100.000 | Suelocemento | 1.622 | 32.45 | 182.5 | AC32base50/70G | 0.533 | 10.66 | 60.4 |
| | AC22bin50/70S | 0.375 | 7.49 | 42.5 | PA11 45/80-60C | 0.296 | 5.92 | 33.6 |
| | ZA (Arc) | 0.890 | 17.80 | 88.8 | AC22bin50/70(a) | 0.163 | 3.25 | 16.3 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 12.6 | C31 | 0.887 | 17.77 | 84.1 |
| 120.000 | Suelocemento | 1.622 | 32.44 | 214.9 | AC32base50/70G | 0.533 | 10.66 | 71.1 |
| | AC22bin50/70S | 0.375 | 7.49 | 50.0 | PA11 45/80-60C | 0.296 | 5.92 | 39.6 |
| | ZA (Arc) | 0.890 | 17.80 | 106.6 | AC22bin50/70(a) | 0.163 | 3.25 | 19.5 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 15.1 | C31 | 0.897 | 17.82 | 101.9 |
| 140.000 | Suelocemento | 1.622 | 32.44 | 247.4 | AC32base50/70G | 0.533 | 10.66 | 81.7 |
| | AC22bin50/70S | 0.375 | 7.49 | 57.5 | PA11 45/80-60C | 0.296 | 5.92 | 45.5 |
| | ZA (Arc) | 0.894 | 17.82 | 124.4 | AC22bin50/70(a) | 0.163 | 3.25 | 22.8 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 17.6 | C31 | 0.325 | 15.25 | 117.2 |
| 160.000 | Suelocemento | 1.622 | 32.44 | 279.8 | AC32base50/70G | 0.533 | 10.66 | 92.4 |
| | AC22bin50/70S | 0.375 | 7.49 | 65.0 | PA11 45/80-60C | 0.296 | 5.92 | 51.4 |
| | ZA (Arc) | 0.890 | 17.85 | 142.3 | AC22bin50/70(a) | 0.163 | 3.25 | 26.0 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 20.2 | C31 | 0.910 | 10.81 | 128.0 |
| 180.000 | Suelocemento | 1.622 | 32.44 | 312.2 | AC32base50/70G | 0.533 | 10.66 | 103.0 |
| | AC22bin50/70S | 0.375 | 7.49 | 72.5 | PA11 45/80-60C | 0.296 | 5.92 | 57.3 |
| | ZA (Arc) | 0.890 | 17.80 | 160.1 | AC22bin50/70(a) | 0.163 | 3.25 | 29.3 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 22.7 | C31 | 0.951 | 18.91 | 146.9 |
| 200.000 | Suelocemento | 1.622 | 32.44 | 344.7 | AC32base50/70G | 0.533 | 10.66 | 113.7 |
| | AC22bin50/70S | 0.375 | 7.49 | 80.0 | PA11 45/80-60C | 0.296 | 5.92 | 63.2 |
| | ZA (Arc) | 0.890 | 17.80 | 177.9 | AC22bin50/70(a) | 0.163 | 3.25 | 32.5 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 25.2 | C31 | 0.938 | 18.81 | 165.7 |
| 220.000 | Suelocemento | 1.622 | 32.44 | 377.1 | AC32base50/70G | 0.533 | 10.66 | 124.4 |
| | AC22bin50/70S | 0.375 | 7.49 | 87.5 | PA11 45/80-60C | 0.296 | 5.92 | 69.2 |
| | ZA (Arc) | 0.890 | 17.80 | 195.7 | AC22bin50/70(a) | 0.163 | 3.25 | 35.8 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 27.7 | C31 | 0.903 | 18.53 | 184.3 |
| 240.000 | Suelocemento | 1.622 | 32.45 | 409.6 | AC32base50/70G | 0.533 | 10.66 | 135.0 |
| | AC22bin50/70S | 0.375 | 7.49 | 95.0 | PA11 45/80-60C | 0.296 | 5.92 | 75.1 |
| | ZA (Arc) | 0.892 | 17.81 | 213.5 | AC22bin50/70(a) | 0.163 | 3.25 | 39.0 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 30.2 | C31 | 0.779 | 17.44 | 201.7 |
| 260.000 | Suelocemento | 1.622 | 32.44 | 442.0 | AC32base50/70G | 0.533 | 10.66 | 145.7 |
| | AC22bin50/70S | 0.375 | 7.49 | 102.4 | PA11 45/80-60C | 0.296 | 5.92 | 81.0 |
| | ZA (Arc) | 0.803 | 17.39 | 230.9 | AC22bin50/70(a) | 0.160 | 3.24 | 42.3 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 32.8 | C31 | 0.159 | 9.76 | 211.5 |
| 280.000 | Suelocemento | 1.622 | 32.44 | 474.5 | AC32base50/70G | 0.533 | 10.66 | 156.3 |
| | AC22bin50/70S | 0.374 | 7.49 | 109.9 | PA11 45/80-60C | 0.296 | 5.92 | 86.9 |
| | ZA (Arc) | 0.894 | 17.76 | 248.6 | AC22bin50/70(a) | 0.163 | 3.25 | 45.5 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 35.3 | C31 | 0.600 | 7.02 | 218.5 |
| 300.000 | Suelocemento | 2.861 | 43.61 | 518.1 | AC32base50/70G | 0.967 | 14.57 | 170.9 |
| | AC22bin50/70S | 0.684 | 10.28 | 120.2 | PA11 45/80-60C | 0.544 | 8.15 | 95.1 |
| | ZA (Arc) | 0.886 | 17.77 | 266.4 | AC22bin50/70(a) | 0.163 | 3.26 | 48.8 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 37.8 | C31 | 0.972 | 17.52 | 236.0 |

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 4112.2 |
| Suelocemento | 530.2 | 2462.7 |
| AC32base50/70G | 174.9 | 2358.5 |
| AC22bin50/70S | 123.1 | 2327.9 |
| PA11 45/80-60C | 97.3 | 2303.4 |
| ZA (Arc) | 272.0 | 1009.0 |
| AC22bin50/70(a) | 49.8 | 949.2 |
| PA1145/80-60(a) | 38.6 | 919.1 |
| C31 | 242.1 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 28 : E3 GLORIETA 2 (28.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
 ***** CAPAS DE FIRME *****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 3.026 | 0.00 | 0.0 | AC32bas35/50G 1 | 1.465 | 0.00 | 0.0 |
| | AC22bin35/50S | 0.866 | 0.00 | 0.0 | PA11 45/80-65C | 0.571 | 0.00 | 0.0 |
| | SC (Arc) | 0.495 | 0.00 | 0.0 | AC22bin35/50(a) | 0.098 | 0.00 | 0.0 |
| | PA1145/80-65(a) | 0.063 | 0.00 | 0.0 | C31 | 1.072 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 2.349 | 56.30 | 56.3 | AC32bas35/50G 1 | 1.126 | 27.19 | 27.2 |
| | AC22bin35/50S | 0.662 | 16.05 | 16.0 | PA11 45/80-65C | 0.435 | 10.57 | 10.6 |
| | SC (Arc) | 0.495 | 9.91 | 9.9 | AC22bin35/50(a) | 0.098 | 1.95 | 2.0 |
| | PA1145/80-65(a) | 0.063 | 1.26 | 1.3 | C31 | 1.085 | 21.51 | 21.5 |
| 80.000 | Suelocemento | 2.154 | 143.30 | 199.6 | AC32bas35/50G 1 | 1.029 | 68.76 | 95.9 |
| | AC22bin35/50S | 0.604 | 40.46 | 56.5 | PA11 45/80-65C | 0.396 | 26.60 | 37.2 |
| | SC (Arc) | 0.499 | 29.79 | 39.7 | AC22bin35/50(a) | 0.098 | 5.86 | 7.8 |
| | PA1145/80-65(a) | 0.063 | 3.78 | 5.0 | C31 | 1.750 | 73.48 | 95.0 |
| 100.000 | Suelocemento | 2.359 | 47.66 | 247.3 | AC32bas35/50G 1 | 1.131 | 22.87 | 118.8 |
| | AC22bin35/50S | 0.666 | 13.45 | 70.0 | PA11 45/80-65C | 0.437 | 8.84 | 46.0 |
| | SC (Arc) | 0.495 | 9.95 | 49.6 | AC22bin35/50(a) | 0.098 | 1.95 | 9.8 |
| | PA1145/80-65(a) | 0.063 | 1.26 | 6.3 | C31 | 1.085 | 28.25 | 123.2 |
| 120.000 | Suelocemento | 2.436 | 54.08 | 301.3 | AC32bas35/50G 1 | 1.170 | 26.08 | 144.9 |
| | AC22bin35/50S | 0.689 | 15.38 | 85.3 | PA11 45/80-65C | 0.453 | 10.13 | 56.1 |
| | SC (Arc) | 0.495 | 9.91 | 59.6 | AC22bin35/50(a) | 0.098 | 1.95 | 11.7 |
| | PA1145/80-65(a) | 0.063 | 1.26 | 7.6 | C31 | 1.080 | 21.58 | 144.8 |
| 140.000 | Suelocemento | 2.731 | 43.82 | 345.2 | AC32bas35/50G 1 | 1.317 | 20.95 | 165.8 |
| | AC22bin35/50S | 0.777 | 12.30 | 97.6 | PA11 45/80-65C | 0.512 | 8.08 | 64.2 |
| | SC (Arc) | 0.495 | 9.91 | 69.5 | AC22bin35/50(a) | 0.098 | 1.95 | 13.7 |
| | PA1145/80-65(a) | 0.063 | 1.26 | 8.8 | C31 | 1.081 | 21.38 | 166.2 |
| 160.000 | Suelocemento | 2.344 | 53.56 | 398.7 | AC32bas35/50G 1 | 1.124 | 25.81 | 191.6 |
| | AC22bin35/50S | 0.661 | 15.22 | 112.9 | PA11 45/80-65C | 0.434 | 10.02 | 74.2 |
| | SC (Arc) | 0.496 | 9.91 | 79.4 | AC22bin35/50(a) | 0.098 | 1.95 | 15.6 |
| | PA1145/80-65(a) | 0.063 | 1.26 | 10.1 | C31 | 0.842 | 19.83 | 186.0 |
| 180.000 | Suelocemento | 2.605 | 43.22 | 441.9 | AC32bas35/50G 1 | 1.254 | 20.65 | 212.3 |
| | AC22bin35/50S | 0.739 | 12.12 | 125.0 | PA11 45/80-65C | 0.487 | 7.96 | 82.2 |
| | SC (Arc) | 0.496 | 9.92 | 89.3 | AC22bin35/50(a) | 0.098 | 1.95 | 17.6 |
| | PA1145/80-65(a) | 0.063 | 1.26 | 11.3 | C31 | 1.072 | 20.25 | 206.3 |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 28 : E3 GLORIETA 2 (28.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2996.4 |
| Suelocemento | 448.1 | 2104.5 |
| AC32bas35/50G 1 | 215.3 | 2031.6 |
| AC22bin35/50S | 126.7 | 2000.6 |
| PA11 45/80-65C | 83.4 | 1976.9 |
| SC (Arc) | 90.4 | 300.5 |
| AC22bin35/50(a) | 17.8 | 282.4 |
| PA1145/80-65(a) | 11.5 | 273.3 |
| C31 | 208.6 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 29 : E3 VIAL 4 (29.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|------------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 1.321 | 0.00 | 0.0 | AC22bin50/70S | 0.330 | 0.00 | 0.0 |
| | AC16surfB50/70S | 0.212 | 0.00 | 0.0 | ZA (Arc) | 0.264 | 0.00 | 0.0 |
| | AC16suf50/70 (a) | 0.042 | 0.00 | 0.0 | C31 | 0.008 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 1.552 | 28.74 | 28.7 | AC22bin50/70S | 0.393 | 7.23 | 7.2 |
| | AC16surfB50/70S | 0.254 | 4.65 | 4.7 | ZA (Arc) | 0.511 | 8.12 | 8.1 |
| | AC16suf50/70 (a) | 0.084 | 1.26 | 1.3 | C31 | 0.079 | 4.82 | 4.8 |
| 40.000 | Suelocemento | 1.784 | 33.36 | 62.1 | AC22bin50/70S | 0.456 | 8.49 | 15.7 |
| | AC16surfB50/70S | 0.296 | 5.49 | 10.1 | ZA (Arc) | 0.862 | 14.17 | 22.3 |
| | AC16suf50/70 (a) | 0.126 | 2.10 | 3.4 | C31 | 0.682 | 11.43 | 16.2 |
| 60.000 | Suelocemento | 1.784 | 35.67 | 97.8 | AC22bin50/70S | 0.456 | 9.12 | 24.8 |
| | AC16surfB50/70S | 0.296 | 5.91 | 16.1 | ZA (Arc) | 0.860 | 17.22 | 39.5 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 5.9 | C31 | 0.824 | 15.24 | 31.5 |
| 80.000 | Suelocemento | 1.784 | 35.67 | 133.4 | AC22bin50/70S | 0.456 | 9.12 | 34.0 |
| | AC16surfB50/70S | 0.296 | 5.91 | 22.0 | ZA (Arc) | 0.860 | 17.20 | 56.7 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 8.4 | C31 | 0.824 | 16.47 | 48.0 |
| 100.000 | Suelocemento | 1.783 | 35.67 | 169.1 | AC22bin50/70S | 0.456 | 9.12 | 43.1 |
| | AC16surfB50/70S | 0.296 | 5.91 | 27.9 | ZA (Arc) | 0.861 | 17.21 | 73.9 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 10.9 | C31 | 0.865 | 16.74 | 64.7 |
| 120.000 | Suelocemento | 1.784 | 35.67 | 204.8 | AC22bin50/70S | 0.456 | 9.12 | 52.2 |
| | AC16surfB50/70S | 0.296 | 5.91 | 33.8 | ZA (Arc) | 0.863 | 17.23 | 91.2 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 13.5 | C31 | 0.901 | 17.43 | 82.1 |
| 140.000 | Suelocemento | 1.784 | 35.69 | 240.5 | AC22bin50/70S | 0.456 | 9.12 | 61.3 |
| | AC16surfB50/70S | 0.296 | 5.91 | 39.7 | ZA (Arc) | 0.864 | 17.27 | 108.4 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 16.0 | C31 | 0.931 | 18.51 | 100.6 |
| 160.000 | Suelocemento | 1.784 | 35.68 | 276.1 | AC22bin50/70S | 0.456 | 9.12 | 70.5 |
| | AC16surfB50/70S | 0.296 | 5.91 | 45.6 | ZA (Arc) | 0.862 | 17.27 | 125.7 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 18.5 | C31 | 0.877 | 18.34 | 119.0 |
| 180.000 | Suelocemento | 1.783 | 35.67 | 311.8 | AC22bin50/70S | 0.456 | 9.12 | 79.6 |
| | AC16surfB50/70S | 0.296 | 5.91 | 51.5 | ZA (Arc) | 0.839 | 17.15 | 142.8 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 21.0 | C31 | 0.513 | 14.30 | 133.3 |
| 200.000 | Suelocemento | 1.784 | 35.67 | 347.5 | AC22bin50/70S | 0.456 | 9.12 | 88.7 |
| | AC16surfB50/70S | 0.296 | 5.91 | 57.5 | ZA (Arc) | 0.860 | 17.10 | 159.9 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 23.5 | C31 | 0.823 | 15.00 | 148.3 |
| 220.000 | Suelocemento | 1.784 | 35.67 | 383.2 | AC22bin50/70S | 0.456 | 9.12 | 97.8 |
| | AC16surfB50/70S | 0.296 | 5.91 | 63.4 | ZA (Arc) | 0.860 | 17.20 | 177.1 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 26.1 | C31 | 0.818 | 16.42 | 164.7 |
| 240.000 | Suelocemento | 1.784 | 35.67 | 418.8 | AC22bin50/70S | 0.456 | 9.12 | 107.0 |
| | AC16surfB50/70S | 0.296 | 5.91 | 69.3 | ZA (Arc) | 0.860 | 17.23 | 194.4 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 28.6 | C31 | 0.801 | 15.36 | 180.1 |
| 260.000 | Suelocemento | 1.783 | 35.67 | 454.5 | AC22bin50/70S | 0.456 | 9.12 | 116.1 |
| | AC16surfB50/70S | 0.296 | 5.91 | 75.2 | ZA (Arc) | 0.861 | 17.21 | 211.6 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 31.1 | C31 | 0.860 | 16.69 | 196.7 |
| 280.000 | Suelocemento | 1.783 | 35.67 | 490.2 | AC22bin50/70S | 0.456 | 9.12 | 125.2 |
| | AC16surfB50/70S | 0.296 | 5.91 | 81.1 | ZA (Arc) | 0.861 | 17.22 | 228.8 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 33.6 | C31 | 0.863 | 17.19 | 213.9 |
| 300.000 | Suelocemento | 1.784 | 35.67 | 525.8 | AC22bin50/70S | 0.456 | 9.12 | 134.3 |
| | AC16surfB50/70S | 0.296 | 5.91 | 87.0 | ZA (Arc) | 0.860 | 17.21 | 246.0 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 36.2 | C31 | 0.824 | 16.82 | 230.8 |
| 320.000 | Suelocemento | 2.054 | 36.82 | 562.7 | AC22bin50/70S | 0.530 | 9.44 | 143.8 |
| | AC16surfB50/70S | 0.345 | 6.12 | 93.1 | ZA (Arc) | 0.860 | 17.20 | 263.2 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 38.7 | C31 | 0.824 | 16.47 | 247.2 |
| 340.000 | Suelocemento | 3.383 | 52.93 | 615.6 | AC22bin50/70S | 0.892 | 13.83 | 157.6 |
| | AC16surfB50/70S | 0.587 | 9.05 | 102.2 | ZA (Arc) | 0.861 | 17.21 | 280.4 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 41.2 | C31 | 0.657 | 15.93 | 263.2 |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 29 : E3 VIAL 4 (29.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|------------------|---------|-----------------|
| SUBRASANTE | | 4901.5 |
| Suelocemento | 670.8 | 2828.6 |
| AC22bin50/70S | 172.2 | 2714.4 |
| AC16surfB50/70S | 111.8 | 2650.2 |
| ZA (Arc) | 294.5 | 1065.6 |
| AC16suf50/70 (a) | 43.3 | 1030.3 |
| C31 | 275.5 | |

Istram 22.11.11.15 21/11/22 10:31:54 200315
 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 32 : E3 RAMAL 5 (32.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|------------------|-------------|--------------|--------------|------------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.462 | 0.00 | 0.0 | AC32base50/70G | 0.827 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.585 | 0.00 | 0.0 | PA11 45/80-60C | 0.464 | 0.00 | 0.0 |
| | ZA (Arc) | 1.457 | 0.00 | 0.0 | AC22bin50/70 (a) | 0.268 | 0.00 | 0.0 |
| | PA1145/80-60 (a) | 0.210 | 0.00 | 0.0 | C31 | 1.039 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 2.462 | 49.24 | 49.2 | AC32base50/70G | 0.827 | 16.54 | 16.5 |
| | AC22bin50/70S | 0.585 | 11.69 | 11.7 | PA11 45/80-60C | 0.464 | 9.28 | 9.3 |
| | ZA (Arc) | 1.457 | 29.14 | 29.1 | AC22bin50/70 (a) | 0.268 | 5.35 | 5.4 |
| | PA1145/80-60 (a) | 0.210 | 4.20 | 4.2 | C31 | 1.040 | 20.79 | 20.8 |
| 40.000 | Suelocemento | 2.152 | 57.92 | 107.2 | AC32base50/70G | 0.719 | 19.58 | 36.1 |
| | AC22bin50/70S | 0.507 | 13.86 | 25.6 | PA11 45/80-60C | 0.402 | 11.01 | 20.3 |
| | ZA (Arc) | 1.453 | 29.10 | 58.2 | AC22bin50/70 (a) | 0.268 | 5.36 | 10.7 |
| | PA1145/80-60 (a) | 0.210 | 4.20 | 8.4 | C31 | 0.966 | 20.01 | 40.8 |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 32 : E3 RAMAL 5 (32.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|------------------|---------|-----------------|
| SUBRASANTE | | 876.9 |
| Suelocemento | 110.2 | 516.1 |
| AC32base50/70G | 37.1 | 501.6 |
| AC22bin50/70S | 26.2 | 497.3 |
| PA11 45/80-60C | 20.8 | 493.9 |
| ZA (Arc) | 62.1 | 225.8 |
| AC22bin50/70 (a) | 11.4 | 217.4 |
| PA1145/80-60 (a) | 9.0 | 213.1 |
| C31 | 43.3 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 34 : E3 VIAL 5 (34.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 1.412 | 0.00 | 0.0 | AC32base50/70G | 0.459 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.322 | 0.00 | 0.0 | PA11 45/80-60C | 0.254 | 0.00 | 0.0 |
| | ZA (Arc) | 0.249 | 0.00 | 0.0 | AC22bin50/70(a) | 0.058 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.042 | 0.00 | 0.0 | C31 | 0.507 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 1.516 | 28.75 | 28.8 | AC32base50/70G | 0.496 | 9.37 | 9.4 |
| | AC22bin50/70S | 0.348 | 6.57 | 6.6 | PA11 45/80-60C | 0.275 | 5.18 | 5.2 |
| | ZA (Arc) | 0.600 | 7.27 | 7.3 | AC22bin50/70(a) | 0.110 | 1.42 | 1.4 |
| | PA1145/80-60(a) | 0.084 | 1.05 | 1.1 | C31 | 0.946 | 11.77 | 11.8 |
| 40.000 | Suelocemento | 1.621 | 31.90 | 60.7 | AC32base50/70G | 0.533 | 10.47 | 19.8 |
| | AC22bin50/70S | 0.375 | 7.36 | 13.9 | PA11 45/80-60C | 0.296 | 5.82 | 11.0 |
| | ZA (Arc) | 0.883 | 16.25 | 23.5 | AC22bin50/70(a) | 0.163 | 2.99 | 4.4 |
| | PA1145/80-60(a) | 0.126 | 2.31 | 3.4 | C31 | 0.946 | 18.92 | 30.7 |
| 60.000 | Suelocemento | 1.621 | 32.43 | 93.1 | AC32base50/70G | 0.533 | 10.66 | 30.5 |
| | AC22bin50/70S | 0.374 | 7.49 | 21.4 | PA11 45/80-60C | 0.296 | 5.92 | 16.9 |
| | ZA (Arc) | 0.892 | 17.71 | 41.2 | AC22bin50/70(a) | 0.163 | 3.25 | 7.7 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 5.9 | C31 | 0.738 | 17.73 | 48.4 |
| 80.000 | Suelocemento | 1.622 | 32.44 | 125.5 | AC32base50/70G | 0.533 | 10.66 | 41.2 |
| | AC22bin50/70S | 0.375 | 7.49 | 28.9 | PA11 45/80-60C | 0.296 | 5.92 | 22.8 |
| | ZA (Arc) | 0.890 | 17.79 | 59.0 | AC22bin50/70(a) | 0.163 | 3.25 | 10.9 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 8.4 | C31 | 1.039 | 19.49 | 67.9 |
| 100.000 | Suelocemento | 1.622 | 32.44 | 158.0 | AC32base50/70G | 0.533 | 10.66 | 51.8 |
| | AC22bin50/70S | 0.375 | 7.49 | 36.4 | PA11 45/80-60C | 0.296 | 5.92 | 28.8 |
| | ZA (Arc) | 0.892 | 17.81 | 76.8 | AC22bin50/70(a) | 0.163 | 3.25 | 14.2 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 10.9 | C31 | 0.843 | 19.81 | 87.7 |
| 120.000 | Suelocemento | 1.622 | 32.44 | 190.4 | AC32base50/70G | 0.533 | 10.66 | 62.5 |
| | AC22bin50/70S | 0.374 | 7.49 | 43.9 | PA11 45/80-60C | 0.296 | 5.92 | 34.7 |
| | ZA (Arc) | 0.887 | 17.81 | 94.6 | AC22bin50/70(a) | 0.163 | 3.25 | 17.4 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 13.4 | C31 | 0.979 | 17.82 | 105.5 |
| 140.000 | Suelocemento | 1.621 | 32.43 | 222.8 | AC32base50/70G | 0.533 | 10.66 | 73.1 |
| | AC22bin50/70S | 0.375 | 7.49 | 51.4 | PA11 45/80-60C | 0.296 | 5.92 | 40.6 |
| | ZA (Arc) | 0.883 | 17.70 | 112.3 | AC22bin50/70(a) | 0.163 | 3.25 | 20.7 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 16.0 | C31 | 0.530 | 16.80 | 122.3 |
| 160.000 | Suelocemento | 1.621 | 32.43 | 255.3 | AC32base50/70G | 0.533 | 10.66 | 83.8 |
| | AC22bin50/70S | 0.375 | 7.49 | 58.9 | PA11 45/80-60C | 0.296 | 5.92 | 46.5 |
| | ZA (Arc) | 0.883 | 17.67 | 130.0 | AC22bin50/70(a) | 0.163 | 3.26 | 23.9 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 18.5 | C31 | 0.664 | 11.69 | 134.0 |
| 180.000 | Suelocemento | 1.621 | 32.43 | 287.7 | AC32base50/70G | 0.533 | 10.66 | 94.5 |
| | AC22bin50/70S | 0.375 | 7.49 | 66.4 | PA11 45/80-60C | 0.296 | 5.92 | 52.4 |
| | ZA (Arc) | 0.883 | 17.67 | 147.7 | AC22bin50/70(a) | 0.163 | 3.26 | 27.2 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 21.0 | C31 | 0.561 | 12.76 | 146.8 |
| 200.000 | Suelocemento | 1.621 | 32.43 | 320.1 | AC32base50/70G | 0.533 | 10.66 | 105.1 |
| | AC22bin50/70S | 0.375 | 7.49 | 73.9 | PA11 45/80-60C | 0.296 | 5.92 | 58.4 |
| | ZA (Arc) | 0.883 | 17.67 | 165.3 | AC22bin50/70(a) | 0.163 | 3.26 | 30.4 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 23.5 | C31 | 0.544 | 10.24 | 157.0 |
| 220.000 | Suelocemento | 1.621 | 32.43 | 352.5 | AC32base50/70G | 0.533 | 10.66 | 115.8 |
| | AC22bin50/70S | 0.374 | 7.49 | 81.4 | PA11 45/80-60C | 0.296 | 5.92 | 64.3 |
| | ZA (Arc) | 0.886 | 17.69 | 183.0 | AC22bin50/70(a) | 0.163 | 3.25 | 33.7 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 26.1 | C31 | 0.963 | 15.98 | 173.0 |
| 240.000 | Suelocemento | 1.621 | 32.43 | 385.0 | AC32base50/70G | 0.533 | 10.66 | 126.4 |
| | AC22bin50/70S | 0.374 | 7.49 | 88.8 | PA11 45/80-60C | 0.296 | 5.92 | 70.2 |
| | ZA (Arc) | 0.886 | 17.72 | 200.7 | AC22bin50/70(a) | 0.163 | 3.26 | 37.0 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 28.6 | C31 | 0.971 | 19.29 | 192.3 |
| 260.000 | Suelocemento | 1.621 | 32.43 | 417.4 | AC32base50/70G | 0.533 | 10.66 | 137.1 |
| | AC22bin50/70S | 0.375 | 7.49 | 96.3 | PA11 45/80-60C | 0.296 | 5.92 | 76.1 |
| | ZA (Arc) | 0.883 | 17.68 | 218.4 | AC22bin50/70(a) | 0.163 | 3.26 | 40.2 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 31.1 | C31 | 0.928 | 18.77 | 211.1 |
| 280.000 | Suelocemento | 1.653 | 32.47 | 449.9 | AC32base50/70G | 0.544 | 10.67 | 147.8 |
| | AC22bin50/70S | 0.382 | 7.50 | 103.8 | PA11 45/80-60C | 0.302 | 5.93 | 82.0 |
| | ZA (Arc) | 0.885 | 17.67 | 236.1 | AC22bin50/70(a) | 0.163 | 3.25 | 43.5 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 33.6 | C31 | 0.958 | 18.72 | 229.8 |
| 300.000 | Suelocemento | 2.960 | 42.92 | 492.8 | AC32base50/70G | 1.001 | 14.33 | 162.1 |
| | AC22bin50/70S | 0.708 | 10.11 | 113.9 | PA11 45/80-60C | 0.564 | 8.02 | 90.1 |
| | ZA (Arc) | 0.886 | 17.71 | 253.8 | AC22bin50/70(a) | 0.163 | 3.26 | 46.7 |
| | PA1145/80-60(a) | 0.127 | 2.52 | 36.1 | C31 | 0.960 | 19.27 | 249.1 |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 4072.3 |
| Suelocemento | 500.8 | 2326.9 |
| AC32base50/70G | 164.8 | 2223.6 |
| AC22bin50/70S | 115.9 | 2193.3 |
| PA11 45/80-60C | 91.6 | 2169.0 |
| ZA (Arc) | 256.8 | 960.1 |
| AC22bin50/70(a) | 47.3 | 900.9 |
| PA1145/80-60(a) | 36.6 | 871.2 |
| C31 | 252.3 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 39 : E3 VIAL 3 N-260 (39.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 1.621 | 0.00 | 0.0 | AC32base50/70G | 0.533 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.374 | 0.00 | 0.0 | PA11 45/80-60C | 0.296 | 0.00 | 0.0 |
| | ZA (Arc) | 0.602 | 0.00 | 0.0 | AC22bin50/70(a) | 0.110 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.084 | 0.00 | 0.0 | C31 | 0.538 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 1.621 | 32.43 | 32.4 | AC32base50/70G | 0.533 | 10.66 | 10.7 |
| | AC22bin50/70S | 0.374 | 7.49 | 7.5 | PA11 45/80-60C | 0.296 | 5.92 | 5.9 |
| | ZA (Arc) | 0.602 | 12.05 | 12.0 | AC22bin50/70(a) | 0.110 | 2.20 | 2.2 |
| | PA1145/80-60(a) | 0.084 | 1.68 | 1.7 | C31 | 0.950 | 12.74 | 12.7 |
| 40.000 | Suelocemento | 1.621 | 32.43 | 64.9 | AC32base50/70G | 0.533 | 10.66 | 21.3 |
| | AC22bin50/70S | 0.374 | 7.49 | 15.0 | PA11 45/80-60C | 0.296 | 5.92 | 11.8 |
| | ZA (Arc) | 0.598 | 12.03 | 24.1 | AC22bin50/70(a) | 0.110 | 2.20 | 4.4 |
| | PA1145/80-60(a) | 0.084 | 1.68 | 3.4 | C31 | 0.464 | 16.77 | 29.5 |
| 60.000 | Suelocemento | 1.621 | 32.43 | 97.3 | AC32base50/70G | 0.533 | 10.66 | 32.0 |
| | AC22bin50/70S | 0.374 | 7.49 | 22.5 | PA11 45/80-60C | 0.296 | 5.92 | 17.8 |
| | ZA (Arc) | 0.602 | 12.03 | 36.1 | AC22bin50/70(a) | 0.110 | 2.20 | 6.6 |
| | PA1145/80-60(a) | 0.084 | 1.68 | 5.0 | C31 | 0.796 | 11.70 | 41.2 |
| 80.000 | Suelocemento | 1.621 | 32.43 | 129.7 | AC32base50/70G | 0.533 | 10.66 | 42.6 |
| | AC22bin50/70S | 0.374 | 7.49 | 30.0 | PA11 45/80-60C | 0.296 | 5.92 | 23.7 |
| | ZA (Arc) | 0.752 | 13.54 | 49.6 | AC22bin50/70(a) | 0.136 | 2.47 | 9.1 |
| | PA1145/80-60(a) | 0.105 | 1.89 | 6.9 | C31 | 0.888 | 17.54 | 58.8 |
| 100.000 | Suelocemento | 1.621 | 32.43 | 162.1 | AC32base50/70G | 0.533 | 10.66 | 53.3 |
| | AC22bin50/70S | 0.374 | 7.49 | 37.4 | PA11 45/80-60C | 0.296 | 5.92 | 29.6 |
| | ZA (Arc) | 0.886 | 16.30 | 65.9 | AC22bin50/70(a) | 0.163 | 2.99 | 12.1 |
| | PA1145/80-60(a) | 0.126 | 2.31 | 9.2 | C31 | 0.954 | 18.81 | 77.6 |
| 120.000 | Suelocemento | 1.621 | 32.43 | 194.6 | AC32base50/70G | 0.533 | 10.66 | 63.9 |
| | AC22bin50/70S | 0.374 | 7.49 | 44.9 | PA11 45/80-60C | 0.296 | 5.92 | 35.5 |
| | ZA (Arc) | 0.886 | 17.72 | 83.7 | AC22bin50/70(a) | 0.163 | 3.25 | 15.3 |
| | PA1145/80-60(a) | 0.126 | 2.53 | 11.8 | C31 | 0.965 | 19.12 | 96.7 |
| 140.000 | Suelocemento | 1.621 | 32.43 | 227.0 | AC32base50/70G | 0.533 | 10.66 | 74.6 |
| | AC22bin50/70S | 0.374 | 7.49 | 52.4 | PA11 45/80-60C | 0.296 | 5.92 | 41.4 |
| | ZA (Arc) | 0.886 | 17.72 | 101.4 | AC22bin50/70(a) | 0.163 | 3.26 | 18.6 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 14.3 | C31 | 0.964 | 19.29 | 116.0 |
| 160.000 | Suelocemento | 1.621 | 32.43 | 259.4 | AC32base50/70G | 0.533 | 10.66 | 85.3 |
| | AC22bin50/70S | 0.374 | 7.49 | 59.9 | PA11 45/80-60C | 0.296 | 5.92 | 47.3 |
| | ZA (Arc) | 0.886 | 17.72 | 119.1 | AC22bin50/70(a) | 0.163 | 3.26 | 21.8 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 16.8 | C31 | 0.920 | 18.81 | 134.8 |
| 180.000 | Suelocemento | 1.621 | 32.43 | 291.8 | AC32base50/70G | 0.533 | 10.66 | 95.9 |
| | AC22bin50/70S | 0.374 | 7.49 | 67.4 | PA11 45/80-60C | 0.296 | 5.92 | 53.3 |
| | ZA (Arc) | 0.886 | 17.72 | 136.8 | AC22bin50/70(a) | 0.163 | 3.26 | 25.1 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 19.3 | C31 | 0.963 | 18.78 | 153.6 |
| 200.000 | Suelocemento | 1.622 | 32.43 | 324.3 | AC32base50/70G | 0.533 | 10.66 | 106.6 |
| | AC22bin50/70S | 0.374 | 7.49 | 74.9 | PA11 45/80-60C | 0.296 | 5.92 | 59.2 |
| | ZA (Arc) | 0.888 | 17.74 | 154.5 | AC22bin50/70(a) | 0.163 | 3.26 | 28.3 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 21.9 | C31 | 1.004 | 19.61 | 173.2 |
| 220.000 | Suelocemento | 1.622 | 32.44 | 356.7 | AC32base50/70G | 0.533 | 10.66 | 117.2 |
| | AC22bin50/70S | 0.375 | 7.49 | 82.4 | PA11 45/80-60C | 0.296 | 5.92 | 65.1 |
| | ZA (Arc) | 0.890 | 17.79 | 172.3 | AC22bin50/70(a) | 0.163 | 3.25 | 31.6 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 24.4 | C31 | 1.038 | 20.12 | 193.3 |
| 240.000 | Suelocemento | 1.622 | 32.44 | 389.1 | AC32base50/70G | 0.533 | 10.66 | 127.9 |
| | AC22bin50/70S | 0.375 | 7.49 | 89.9 | PA11 45/80-60C | 0.296 | 5.92 | 71.0 |
| | ZA (Arc) | 0.890 | 17.80 | 190.1 | AC22bin50/70(a) | 0.163 | 3.25 | 34.9 |
| | PA1145/80-60(a) | 0.126 | 2.52 | 26.9 | C31 | 1.038 | 20.76 | 214.1 |
| 260.000 | Suelocemento | 1.622 | 32.44 | 421.6 | AC32base50/70G | 0.533 | 10.66 | 138.6 |
| | AC22bin50/70S | 0.375 | 7.49 | 97.4 | PA11 45/80-60C | 0.296 | 5.92 | 76.9</ |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 39 : E3 VIAL 3 N-260 (39.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|------------------|---------|-----------------|
| SUBRASANTE | | 4977.9 |
| Suelocemento | 621.6 | 2886.1 |
| AC22base50/70G | 204.7 | 2760.0 |
| AC22bin50/70S | 143.9 | 2722.8 |
| PA11 45/80-60C | 113.8 | 2693.2 |
| ZA (Arc) | 304.9 | 1141.0 |
| AC22bin50/70 (a) | 56.1 | 1069.3 |
| PA1145/80-60 (a) | 43.4 | 1033.3 |
| C31 | 320.7 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 43 : E3 RAMAL 2 (43.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|------------------|-------------|--------------|--------------|----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 1.544 | 0.00 | 0.0 | AC22bin50/70S | 0.522 | 0.00 | 0.0 |
| | PA11 50/70 | 0.254 | 0.00 | 0.0 | ZA (Arc) | 0.587 | 0.00 | 0.0 |
| | AC22bin50/70 (a) | 0.214 | 0.00 | 0.0 | PA11 50/70 (a) | 0.105 | 0.00 | 0.0 |
| | C31 | 0.911 | 0.00 | 0.0 | | | | |
| 20.000 | Suelocemento | 1.544 | 30.88 | 30.9 | AC22bin50/70S | 0.522 | 10.44 | 10.4 |
| | PA11 50/70 | 0.254 | 5.08 | 5.1 | ZA (Arc) | 0.587 | 11.74 | 11.7 |
| | AC22bin50/70 (a) | 0.214 | 4.28 | 4.3 | PA11 50/70 (a) | 0.105 | 2.10 | 2.1 |
| | C31 | 0.911 | 18.21 | 18.2 | | | | |
| 40.000 | Suelocemento | 1.545 | 30.89 | 61.8 | AC22bin50/70S | 0.522 | 10.44 | 20.9 |
| | PA11 50/70 | 0.254 | 5.08 | 10.2 | ZA (Arc) | 0.586 | 11.74 | 23.5 |
| | AC22bin50/70 (a) | 0.214 | 4.28 | 8.6 | PA11 50/70 (a) | 0.105 | 2.10 | 4.2 |
| | C31 | 0.909 | 18.21 | 36.4 | | | | |
| 60.000 | Suelocemento | 1.547 | 30.92 | 92.7 | AC22bin50/70S | 0.522 | 10.44 | 31.3 |
| | PA11 50/70 | 0.254 | 5.07 | 15.2 | ZA (Arc) | 0.584 | 11.71 | 35.2 |
| | AC22bin50/70 (a) | 0.214 | 4.29 | 12.9 | PA11 50/70 (a) | 0.105 | 2.10 | 6.3 |
| | C31 | 0.909 | 18.18 | 54.6 | | | | |
| 80.000 | Suelocemento | 1.550 | 30.98 | 123.7 | AC22bin50/70S | 0.522 | 10.43 | 41.7 |
| | PA11 50/70 | 0.254 | 5.08 | 20.3 | ZA (Arc) | 0.581 | 11.65 | 46.8 |
| | AC22bin50/70 (a) | 0.214 | 4.29 | 17.1 | PA11 50/70 (a) | 0.105 | 2.10 | 8.4 |
| | C31 | 0.909 | 18.25 | 72.9 | | | | |
| 100.000 | Suelocemento | 1.550 | 31.01 | 154.7 | AC22bin50/70S | 0.522 | 10.43 | 52.2 |
| | PA11 50/70 | 0.254 | 5.07 | 25.4 | ZA (Arc) | 0.579 | 11.59 | 58.4 |
| | AC22bin50/70 (a) | 0.215 | 4.29 | 21.4 | PA11 50/70 (a) | 0.105 | 2.10 | 10.5 |
| | C31 | 0.875 | 17.74 | 90.6 | | | | |
| 120.000 | Suelocemento | 1.550 | 31.01 | 185.7 | AC22bin50/70S | 0.522 | 10.43 | 62.6 |
| | PA11 50/70 | 0.254 | 5.07 | 30.5 | ZA (Arc) | 0.580 | 11.58 | 70.0 |
| | AC22bin50/70 (a) | 0.215 | 4.29 | 25.7 | PA11 50/70 (a) | 0.105 | 2.10 | 12.6 |
| | C31 | 0.888 | 17.54 | 108.1 | | | | |
| 140.000 | Suelocemento | 1.549 | 31.00 | 216.7 | AC22bin50/70S | 0.522 | 10.43 | 73.0 |
| | PA11 50/70 | 0.254 | 5.08 | 35.5 | ZA (Arc) | 0.583 | 11.62 | 81.6 |
| | AC22bin50/70 (a) | 0.214 | 4.29 | 30.0 | PA11 50/70 (a) | 0.105 | 2.10 | 14.7 |
| | C31 | 0.912 | 18.15 | 126.3 | | | | |
| 160.000 | Suelocemento | 1.545 | 30.94 | 247.6 | AC22bin50/70S | 0.522 | 10.44 | 83.5 |
| | PA11 50/70 | 0.254 | 5.07 | 40.6 | ZA (Arc) | 0.586 | 11.69 | 93.3 |
| | AC22bin50/70 (a) | 0.214 | 4.29 | 34.3 | PA11 50/70 (a) | 0.105 | 2.10 | 16.8 |
| | C31 | 0.909 | 18.19 | 144.5 | | | | |
| 180.000 | Suelocemento | 1.543 | 30.89 | 278.5 | AC22bin50/70S | 0.522 | 10.44 | 93.9 |
| | PA11 50/70 | 0.254 | 5.08 | 45.7 | ZA (Arc) | 0.588 | 11.74 | 105.1 |
| | AC22bin50/70 (a) | 0.214 | 4.28 | 38.6 | PA11 50/70 (a) | 0.105 | 2.10 | 18.9 |
| | C31 | 0.914 | 18.22 | 162.7 | | | | |
| 200.000 | Suelocemento | 1.541 | 30.84 | 309.3 | AC22bin50/70S | 0.522 | 10.44 | 104.4 |
| | PA11 50/70 | 0.254 | 5.08 | 50.8 | ZA (Arc) | 0.589 | 11.78 | 116.8 |
| | AC22bin50/70 (a) | 0.214 | 4.28 | 42.9 | PA11 50/70 (a) | 0.105 | 2.10 | 21.0 |
| | C31 | 0.892 | 18.13 | 180.8 | | | | |
| 220.000 | Suelocemento | 1.540 | 30.81 | 340.1 | AC22bin50/70S | 0.522 | 10.44 | 114.8 |
| | PA11 50/70 | 0.254 | 5.08 | 55.8 | ZA (Arc) | 0.589 | 11.78 | 128.6 |
| | AC22bin50/70 (a) | 0.214 | 4.28 | 47.1 | PA11 50/70 (a) | 0.105 | 2.10 | 23.1 |
| | C31 | 0.878 | 17.59 | 198.4 | | | | |
| 240.000 | Suelocemento | 1.542 | 30.83 | 371.0 | AC22bin50/70S | 0.522 | 10.44 | 125.2 |
| | PA11 50/70 | 0.254 | 5.08 | 60.9 | ZA (Arc) | 0.589 | 11.78 | 140.4 |
| | AC22bin50/70 (a) | 0.214 | 4.28 | 51.4 | PA11 50/70 (a) | 0.105 | 2.10 | 25.2 |
| | C31 | 0.914 | 17.91 | 216.3 | | | | |
| 260.000 | Suelocemento | 1.545 | 30.87 | 401.8 | AC22bin50/70S | 0.522 | 10.44 | 135.7 |
| | PA11 50/70 | 0.254 | 5.08 | 66.0 | ZA (Arc) | 0.587 | 11.76 | 152.2 |
| | AC22bin50/70 (a) | 0.214 | 4.28 | 55.7 | PA11 50/70 (a) | 0.105 | 2.10 | 27.3 |
| | C31 | 0.910 | 18.27 | 234.6 | | | | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 43 : E3 RAMAL 2 (43.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|------------------|---------|-----------------|
| SUBRASANTE | | 3277.9 |
| Suelocemento | 410.3 | 1724.6 |
| AC22bin50/70S | 138.5 | 1628.9 |
| PA11 50/70 | 67.4 | 1594.4 |
| ZA (Arc) | 155.4 | 677.6 |
| AC22bin50/70 (a) | 56.9 | 677.4 |
| PA11 50/70 (a) | 27.9 | 664.3 |
| C31 | 239.6 | |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 44 : E3 RAMAL 1 (44.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 161.122 | Suelocemento | 1.642 | 0.00 | 0.0 | AC32base50/70G | 0.540 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.377 | 0.00 | 0.0 | PA11 45/80-60C | 0.296 | 0.00 | 0.0 |
| | ZA (Arc) | 0.722 | 0.00 | 0.0 | AC22bin50/70(a) | 0.134 | 0.00 | 0.0 |
| | PA1145/80-60(a) | 0.105 | 0.00 | 0.0 | C31 | 0.960 | 0.00 | 0.0 |
| 180.000 | Suelocemento | 1.638 | 30.97 | 31.0 | AC32base50/70G | 0.540 | 10.20 | 10.2 |
| | AC22bin50/70S | 0.377 | 7.11 | 7.1 | PA11 45/80-60C | 0.296 | 5.59 | 5.6 |
| | ZA (Arc) | 0.725 | 13.66 | 13.7 | AC22bin50/70(a) | 0.134 | 2.53 | 2.5 |
| | PA1145/80-60(a) | 0.105 | 1.98 | 2.0 | C31 | 0.958 | 18.14 | 18.1 |
| 200.000 | Suelocemento | 1.633 | 32.72 | 63.7 | AC32base50/70G | 0.540 | 10.81 | 21.0 |
| | AC22bin50/70S | 0.377 | 7.54 | 14.7 | PA11 45/80-60C | 0.296 | 5.92 | 11.5 |
| | ZA (Arc) | 0.729 | 14.54 | 28.2 | AC22bin50/70(a) | 0.134 | 2.68 | 5.2 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 4.1 | C31 | 0.961 | 19.17 | 37.3 |
| 220.000 | Suelocemento | 1.629 | 32.63 | 96.3 | AC32base50/70G | 0.540 | 10.81 | 31.8 |
| | AC22bin50/70S | 0.377 | 7.54 | 22.2 | PA11 45/80-60C | 0.296 | 5.92 | 17.4 |
| | ZA (Arc) | 0.731 | 14.60 | 42.8 | AC22bin50/70(a) | 0.134 | 2.68 | 7.9 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 6.2 | C31 | 0.942 | 19.18 | 56.5 |
| 240.000 | Suelocemento | 1.628 | 32.56 | 128.9 | AC32base50/70G | 0.541 | 10.81 | 42.6 |
| | AC22bin50/70S | 0.377 | 7.55 | 29.7 | PA11 45/80-60C | 0.296 | 5.92 | 23.3 |
| | ZA (Arc) | 0.731 | 14.62 | 57.4 | AC22bin50/70(a) | 0.134 | 2.68 | 10.6 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 8.3 | C31 | 0.925 | 18.55 | 75.0 |
| 260.000 | Suelocemento | 1.628 | 32.56 | 161.4 | AC32base50/70G | 0.541 | 10.81 | 53.4 |
| | AC22bin50/70S | 0.377 | 7.55 | 37.3 | PA11 45/80-60C | 0.296 | 5.92 | 29.3 |
| | ZA (Arc) | 0.731 | 14.62 | 72.0 | AC22bin50/70(a) | 0.134 | 2.68 | 13.2 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 10.4 | C31 | 0.925 | 18.49 | 93.5 |
| 280.000 | Suelocemento | 1.628 | 32.56 | 194.0 | AC32base50/70G | 0.541 | 10.81 | 64.2 |
| | AC22bin50/70S | 0.377 | 7.55 | 44.8 | PA11 45/80-60C | 0.296 | 5.92 | 35.2 |
| | ZA (Arc) | 0.731 | 14.62 | 86.7 | AC22bin50/70(a) | 0.134 | 2.68 | 15.9 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 12.5 | C31 | 0.925 | 18.49 | 112.0 |
| 300.000 | Suelocemento | 1.632 | 32.59 | 226.6 | AC32base50/70G | 0.540 | 10.81 | 75.1 |
| | AC22bin50/70S | 0.377 | 7.55 | 52.4 | PA11 45/80-60C | 0.296 | 5.92 | 41.1 |
| | ZA (Arc) | 0.731 | 14.62 | 101.3 | AC22bin50/70(a) | 0.134 | 2.68 | 18.6 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 14.6 | C31 | 0.965 | 18.83 | 130.9 |
| 320.000 | Suelocemento | 1.634 | 32.66 | 259.2 | AC32base50/70G | 0.540 | 10.81 | 85.9 |
| | AC22bin50/70S | 0.377 | 7.54 | 59.9 | PA11 45/80-60C | 0.296 | 5.92 | 47.0 |
| | ZA (Arc) | 0.729 | 14.58 | 115.9 | AC22bin50/70(a) | 0.134 | 2.68 | 21.3 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 16.7 | C31 | 0.960 | 19.24 | 150.1 |
| 340.000 | Suelocemento | 1.634 | 32.68 | 291.9 | AC32base50/70G | 0.540 | 10.81 | 96.7 |
| | AC22bin50/70S | 0.377 | 7.54 | 67.5 | PA11 45/80-60C | 0.296 | 5.92 | 52.9 |
| | ZA (Arc) | 0.729 | 14.57 | 130.4 | AC22bin50/70(a) | 0.134 | 2.68 | 23.9 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 18.8 | C31 | 0.960 | 19.20 | 169.3 |
| 360.000 | Suelocemento | 1.634 | 32.68 | 324.6 | AC32base50/70G | 0.540 | 10.81 | 107.5 |
| | AC22bin50/70S | 0.377 | 7.54 | 75.0 | PA11 45/80-60C | 0.296 | 5.92 | 58.9 |
| | ZA (Arc) | 0.729 | 14.57 | 145.0 | AC22bin50/70(a) | 0.134 | 2.68 | 26.6 |
| | PA1145/80-60(a) | 0.105 | 2.10 | 20.9 | C31 | 0.960 | 19.20 | 188.5 |

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 PROYECTO :
 GRUPO : 4 : E3-ENLACE N-260
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 44 : E3 RAMAL 1 (44.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2764.8 |
| Suelocemento | 336.6 | 1573.1 |
| AC32base50/70G | 111.4 | 1502.9 |
| AC22bin50/70S | 77.8 | 1472.0 |
| PA11 45/80-60C | 61.0 | 1445.1 |
| ZA (Arc) | 150.4 | 546.4 |
| AC22bin50/70(a) | 27.6 | 526.1 |
| PA1145/80-60(a) | 21.7 | 516.1 |
| C31 | 195.6 | |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 45 : CAMINO MD_04 (F4-45.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 539.357 | Zahorra Artific | 2.070 | 0.00 | 0.0 | AC16surfB50/70S | 0.265 | 0.00 | 0.0 |
| | C31 | 0.345 | 0.00 | 0.0 | | | | |
| 540.000 | Zahorra Artific | 2.070 | 1.33 | 1.3 | AC16surfB50/70S | 0.265 | 0.17 | 0.2 |
| | C31 | 0.345 | 0.22 | 0.2 | | | | |
| 560.000 | Zahorra Artific | 1.952 | 40.97 | 42.3 | AC16surfB50/70S | 0.264 | 5.30 | 5.5 |
| | C31 | 0.005 | 5.64 | 5.9 | | | | |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 45 : CAMINO MD_04 (F4-45.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 205.0 |
| Zahorra Artific | 68.3 | 175.8 |
| AC16surfB50/70S | 9.0 | 170.1 |
| C31 | 5.9 | |

Istram 22.11.11.15 21/11/22 10:31:54 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 47 : CE 1.1 CD (F4-47.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.023 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.734 | 26.21 | 26.2 | C31 | 0.009 | 0.04 | 0.0 |
| 40.000 | Zahorra Artific | 1.761 | 34.91 | 61.1 | C31 | 0.009 | 0.18 | 0.2 |
| 60.000 | Zahorra Artific | 1.746 | 35.10 | 96.2 | C31 | 0.009 | 0.18 | 0.4 |
| 80.000 | Zahorra Artific | 1.746 | 33.82 | 130.0 | C31 | 0.009 | 0.09 | 0.5 |
| 100.000 | Zahorra Artific | 1.725 | 34.86 | 164.9 | C31 | 0.009 | 0.18 | 0.7 |
| 120.000 | Zahorra Artific | 1.668 | 33.76 | 198.7 | C31 | 0.000 | 0.06 | 0.7 |
| 140.000 | Zahorra Artific | 1.583 | 32.79 | 231.5 | C31 | 0.000 | 0.02 | 0.7 |
| 160.000 | Zahorra Artific | 1.713 | 32.56 | 264.0 | | | | |
| 180.000 | Zahorra Artific | 1.771 | 35.13 | 299.1 | C31 | 0.009 | 0.13 | 0.9 |
| 200.000 | Zahorra Artific | 1.683 | 34.35 | 333.5 | C31 | 0.003 | 0.11 | 1.0 |
| 220.000 | Zahorra Artific | 1.646 | 32.94 | 366.4 | C31 | 0.001 | 0.02 | 1.0 |
| 240.000 | Zahorra Artific | 1.649 | 33.04 | 399.5 | | | | |
| 260.000 | Zahorra Artific | 1.631 | 33.00 | 432.5 | | | | |
| 280.000 | Zahorra Artific | 1.658 | 33.00 | 465.5 | | | | |
| 300.000 | Zahorra Artific | 1.631 | 33.63 | 499.1 | C31 | 0.000 | 0.06 | 1.1 |
| 340.000 | Zahorra Artific | 1.748 | 67.53 | 566.6 | C31 | 0.009 | 0.18 | 1.3 |
| 360.000 | Zahorra Artific | 1.771 | 34.74 | 601.4 | C31 | 0.009 | 0.18 | 1.4 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 47 : CE 1.1 CD (F4-47.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1988.0 |
| Zahorra Artific | 619.6 | 1905.9 |
| C31 | 1.5 | |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 49 : CE 2.4 CD (F4-49.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 18.482 | Zahorra Artific | 1.721 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.721 | 2.61 | 2.6 | | | | |
| 40.000 | Zahorra Artific | 1.721 | 34.42 | 37.0 | | | | |
| 60.000 | Zahorra Artific | 1.721 | 34.42 | 71.4 | | | | |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 49 : CE 2.4 CD (F4-49.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 280.8 |
| Zahorra Artific | 82.2 | 239.2 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 50 : CE 2.5 CD (PI 2.4) (F4-50.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 1.839 | 0.00 | 0.0 | AC16surfB50/70S | 0.263 | 0.00 | 0.0 |
| 20.000 | Zahorra Artific | 1.839 | 36.78 | 36.8 | AC16surfB50/70S | 0.263 | 5.25 | 5.3 |
| 40.000 | Zahorra Artific | 1.839 | 36.78 | 73.6 | AC16surfB50/70S | 0.263 | 5.25 | 10.5 |
| 40.000 | Zahorra Artific | 2.076 | 0.00 | 0.0 | AC16surfB50/70S | 0.265 | 0.00 | 0.0 |
| | C31 | 0.417 | 0.00 | 0.0 | | | | |
| 60.000 | Zahorra Artific | 2.076 | 41.53 | 115.1 | AC16surfB50/70S | 0.265 | 5.30 | 15.8 |
| | C31 | 0.417 | 8.34 | 8.3 | | | | |
| 80.000 | Zahorra Artific | 2.076 | 41.53 | 156.6 | AC16surfB50/70S | 0.265 | 5.30 | 21.1 |
| | C31 | 0.417 | 8.34 | 16.7 | | | | |
| 100.000 | Zahorra Artific | 2.076 | 41.53 | 198.2 | AC16surfB50/70S | 0.265 | 5.30 | 26.4 |
| | C31 | 0.417 | 8.34 | 25.0 | | | | |
| 120.000 | Zahorra Artific | 2.073 | 41.51 | 239.7 | AC16surfB50/70S | 0.265 | 5.30 | 31.7 |
| | C31 | 0.311 | 7.81 | 32.8 | | | | |
| 140.000 | Zahorra Artific | 2.070 | 41.44 | 281.1 | AC16surfB50/70S | 0.265 | 5.30 | 37.0 |
| | C31 | 0.204 | 6.02 | 38.8 | | | | |
| 160.000 | Zahorra Artific | 2.071 | 41.42 | 322.5 | AC16surfB50/70S | 0.265 | 5.30 | 42.3 |
| | C31 | 0.354 | 5.88 | 44.7 | | | | |
| 180.000 | Zahorra Artific | 2.071 | 41.42 | 363.9 | AC16surfB50/70S | 0.265 | 5.30 | 47.6 |
| | C31 | 0.319 | 7.20 | 51.9 | | | | |
| 200.000 | Zahorra Artific | 2.073 | 41.44 | 405.4 | AC16surfB50/70S | 0.265 | 5.30 | 52.9 |
| | C31 | 0.323 | 7.28 | 59.2 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 50 : CE 2.5 CD (PI 2.4) (F4-50.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1305.1 |
| Zahorra Artific | 417.8 | 1080.1 |
| AC16surfB50/70S | 54.5 | 1030.2 |
| C31 | 61.2 | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 51 : REPOSICION GI-8593 (F4-51.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 1.484 | 0.00 | 0.0 | AC22bin50/70S | 0.390 | 0.00 | 0.0 |
| | AC16surfB50/70S | 0.254 | 0.00 | 0.0 | C31 | 0.172 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 1.545 | 30.32 | 30.3 | AC22bin50/70S | 0.393 | 7.85 | 7.8 |
| | AC16surfB50/70S | 0.254 | 5.07 | 5.1 | C31 | 0.234 | 3.78 | 3.8 |
| 40.000 | Suelocemento | 1.544 | 30.89 | 61.2 | AC22bin50/70S | 0.393 | 7.87 | 15.7 |
| | AC16surfB50/70S | 0.254 | 5.08 | 10.1 | C31 | 0.220 | 4.21 | 8.0 |
| 60.000 | Suelocemento | 1.543 | 30.87 | 92.1 | AC22bin50/70S | 0.393 | 7.87 | 23.6 |
| | AC16surfB50/70S | 0.254 | 5.08 | 15.2 | C31 | 0.260 | 4.84 | 12.8 |
| 80.000 | Suelocemento | 1.544 | 30.87 | 123.0 | AC22bin50/70S | 0.393 | 7.87 | 31.4 |
| | AC16surfB50/70S | 0.254 | 5.08 | 20.3 | C31 | 0.284 | 5.42 | 18.2 |
| 100.000 | Suelocemento | 1.545 | 30.90 | 153.9 | AC22bin50/70S | 0.393 | 7.87 | 39.3 |
| | AC16surfB50/70S | 0.254 | 5.08 | 25.4 | C31 | 0.288 | 5.75 | 24.0 |
| 120.000 | Suelocemento | 1.549 | 30.94 | 184.8 | AC22bin50/70S | 0.393 | 7.87 | 47.2 |
| | AC16surfB50/70S | 0.254 | 5.08 | 30.5 | C31 | 0.225 | 5.32 | 29.3 |
| 140.000 | Suelocemento | 1.550 | 30.99 | 215.8 | AC22bin50/70S | 0.393 | 7.87 | 55.0 |
| | AC16surfB50/70S | 0.254 | 5.08 | 35.5 | C31 | 0.211 | 4.34 | 33.7 |
| 160.000 | Suelocemento | 1.550 | 30.99 | 246.8 | AC22bin50/70S | 0.393 | 7.87 | 62.9 |
| | AC16surfB50/70S | 0.254 | 5.07 | 40.6 | C31 | 0.199 | 3.57 | 37.2 |
| 180.000 | Suelocemento | 1.548 | 30.99 | 277.8 | AC22bin50/70S | 0.393 | 7.87 | 70.8 |
| | AC16surfB50/70S | 0.254 | 5.08 | 45.7 | C31 | 0.282 | 4.82 | 42.1 |
| 200.000 | Suelocemento | 1.545 | 30.93 | 308.7 | AC22bin50/70S | 0.393 | 7.87 | 78.6 |
| | AC16surfB50/70S | 0.254 | 5.08 | 50.8 | C31 | 0.292 | 5.84 | 47.9 |
| 220.000 | Suelocemento | 1.544 | 30.90 | 339.6 | AC22bin50/70S | 0.393 | 7.87 | 86.5 |
| | AC16surfB50/70S | 0.254 | 5.08 | 55.8 | C31 | 0.277 | 5.75 | 53.6 |
| 240.000 | Suelocemento | 1.543 | 30.87 | 370.5 | AC22bin50/70S | 0.393 | 7.87 | 94.4 |
| | AC16surfB50/70S | 0.254 | 5.08 | 60.9 | C31 | 0.279 | 5.54 | 59.2 |
| 260.000 | Suelocemento | 1.543 | 30.87 | 401.3 | AC22bin50/70S | 0.393 | 7.87 | 102.2 |
| | AC16surfB50/70S | 0.254 | 5.08 | 66.0 | C31 | 0.278 | 5.58 | 64.8 |
| 280.000 | Suelocemento | 1.545 | 30.89 | 432.2 | AC22bin50/70S | 0.393 | 7.87 | 110.1 |
| | AC16surfB50/70S | 0.254 | 5.07 | 71.1 | C31 | 0.287 | 5.59 | 70.3 |
| 300.000 | Suelocemento | 1.468 | 30.04 | 462.3 | AC22bin50/70S | 0.387 | 7.80 | 117.9 |
| | AC16surfB50/70S | 0.254 | 5.08 | 76.1 | C31 | 0.139 | 4.04 | 74.4 |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 51 : REPOSICION GI-8593 (F4-51.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2330.4 |
| Suelocemento | 479.2 | 2020.5 |
| AC22bin50/70S | 122.4 | 1926.0 |
| AC16surfB50/70S | 79.1 | 1871.0 |
| C31 | 75.8 | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 52 : CE 3.5 CD (52.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.114 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.717 | 39.75 | 39.8 | | | | |
| 40.000 | Zahorra Artific | 1.714 | 34.31 | 74.1 | | | | |
| 60.000 | Zahorra Artific | 1.696 | 34.01 | 108.1 | | | | |
| 80.000 | Zahorra Artific | 1.651 | 33.64 | 141.7 | | | | |
| 100.000 | Zahorra Artific | 1.699 | 33.69 | 175.4 | | | | |
| 120.000 | Zahorra Artific | 1.700 | 33.64 | 209.0 | | | | |
| 140.000 | Zahorra Artific | 1.694 | 33.76 | 242.8 | | | | |
| 160.000 | Zahorra Artific | 1.695 | 33.91 | 276.7 | | | | |
| 180.000 | Zahorra Artific | 1.686 | 33.82 | 310.5 | | | | |
| 200.000 | Zahorra Artific | 1.675 | 33.56 | 344.1 | | | | |
| 220.000 | Zahorra Artific | 1.707 | 33.84 | 377.9 | | | | |
| 240.000 | Zahorra Artific | 1.717 | 34.28 | 412.2 | | | | |
| 260.000 | Zahorra Artific | 1.712 | 34.28 | 446.5 | | | | |
| 280.000 | Zahorra Artific | 1.713 | 34.27 | 480.8 | | | | |
| 300.000 | Zahorra Artific | 1.691 | 34.11 | 514.9 | | | | |
| 320.000 | Zahorra Artific | 1.621 | 32.99 | 547.9 | | | | |
| 340.000 | Zahorra Artific | 1.682 | 33.23 | 581.1 | | | | |
| 360.000 | Zahorra Artific | 1.665 | 33.36 | 614.5 | | | | |
| 380.000 | Zahorra Artific | 1.705 | 33.43 | 647.9 | | | | |
| 400.000 | Zahorra Artific | 1.715 | 34.25 | 682.1 | | | | |
| 420.000 | Zahorra Artific | 1.703 | 34.20 | 716.3 | | | | |
| 440.000 | Zahorra Artific | 1.701 | 34.00 | 750.4 | | | | |
| 460.000 | Zahorra Artific | 1.715 | 34.20 | 784.6 | | | | |
| 480.000 | Zahorra Artific | 1.711 | 34.27 | 818.8 | | | | |
| 500.000 | Zahorra Artific | 1.666 | 33.47 | 852.3 | | | | |
| 520.000 | Zahorra Artific | 1.951 | 37.60 | 889.9 | | | | |
| 540.000 | Zahorra Artific | 1.658 | 36.60 | 926.5 | | | | |
| 560.000 | Zahorra Artific | 1.682 | 33.50 | 960.0 | | | | |
| 580.000 | Zahorra Artific | 1.673 | 33.59 | 993.6 | | | | |
| 600.000 | Zahorra Artific | 1.671 | 33.44 | 1027.0 | | | | |
| 620.000 | Zahorra Artific | 1.683 | 33.50 | 1060.5 | | | | |
| 640.000 | Zahorra Artific | 1.676 | 33.51 | 1094.0 | | | | |
| 660.000 | Zahorra Artific | 1.689 | 33.54 | 1127.6 | | | | |
| 680.000 | Zahorra Artific | 1.664 | 33.53 | 1161.1 | | | | |
| 700.000 | Zahorra Artific | 1.717 | 34.01 | 1195.1 | | | | |
| 720.000 | Zahorra Artific | 1.717 | 34.34 | 1229.5 | | | | |
| 740.000 | Zahorra Artific | 1.717 | 34.34 | 1263.8 | | | | |
| 760.000 | Zahorra Artific | 1.716 | 34.33 | 1298.1 | | | | |
| 780.000 | Zahorra Artific | 1.705 | 34.18 | 1332.3 | | | | |
| 800.000 | Zahorra Artific | 1.700 | 34.05 | 1366.4 | | | | |
| 820.000 | Zahorra Artific | 1.695 | 33.95 | 1400.3 | | | | |
| 840.000 | Zahorra Artific | 1.690 | 33.79 | 1434.1 | | | | |
| 860.000 | Zahorra Artific | 1.703 | 33.95 | 1468.1 | | | | |
| 880.000 | Zahorra Artific | 1.717 | 34.24 | 1502.3 | | | | |
| 900.000 | Zahorra Artific | 1.717 | 34.34 | 1536.6 | | | | |
| 920.000 | Zahorra Artific | 1.717 | 34.33 | 1571.0 | | | | |
| 940.000 | Zahorra Artific | 1.717 | 34.33 | 1605.3 | | | | |
| 960.000 | Zahorra Artific | 1.717 | 34.34 | 1639.6 | | | | |
| 980.000 | Zahorra Artific | 1.717 | 34.34 | 1674.0 | | | | |
| 1000.000 | Zahorra Artific | 1.717 | 34.34 | 1708.3 | | | | |
| 1020.000 | Zahorra Artific | 1.717 | 34.34 | 1742.6 | | | | |
| 1040.000 | Zahorra Artific | 1.717 | 34.34 | 1777.0 | | | | |
| 1060.000 | Zahorra Artific | 1.717 | 34.34 | 1811.3 | | | | |
| 1080.000 | Zahorra Artific | 1.717 | 34.34 | 1845.7 | | | | |
| 1100.000 | Zahorra Artific | 1.717 | 34.34 | 1880.0 | | | | |
| 1120.000 | Zahorra Artific | 1.717 | 34.34 | 1914.3 | | | | |
| 1140.000 | Zahorra Artific | 1.717 | 34.34 | 1948.7 | | | | |
| 1160.000 | Zahorra Artific | 1.691 | 33.94 | 1982.6 | | | | |
| 1180.000 | Zahorra Artific | 1.675 | 33.70 | 2016.3 | | | | |
| 1200.000 | Zahorra Artific | 1.693 | 33.55 | 2049.9 | | | | |
| 1240.000 | Zahorra Artific | 1.717 | 34.04 | 2118.1 | | | | |
| 1260.000 | Zahorra Artific | 1.696 | 34.04 | 2152.1 | | | | |
| 1280.000 | Zahorra Artific | 1.684 | 33.77 | 2185.9 | | | | |
| 1300.000 | Zahorra Artific | 1.714 | 34.08 | 2219.9 | | | | |
| 1320.000 | Zahorra Artific | 1.717 | 34.32 | 2254.3 | | | | |
| 1340.000 | Zahorra Artific | 1.717 | 34.34 | 2288.6 | | | | |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 52 : CE 3.5 CD (52.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 7778.9 |
| Zahorra Artific | 2321.9 | 6844.1 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 53 : CE 4.8 CD (F4-53.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 5.077 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.717 | 38.68 | 38.7 | | | | |
| 40.000 | Zahorra Artific | 1.714 | 34.33 | 73.0 | | | | |
| 60.000 | Zahorra Artific | 1.675 | 33.84 | 106.8 | | | | |
| 80.000 | Zahorra Artific | 1.702 | 33.73 | 140.6 | | | | |
| 100.000 | Zahorra Artific | 1.693 | 33.94 | 174.5 | | | | |
| 120.000 | Zahorra Artific | 1.673 | 33.80 | 208.3 | | | | |
| 140.000 | Zahorra Artific | 1.662 | 33.36 | 241.7 | | | | |
| 160.000 | Zahorra Artific | 1.680 | 33.00 | 274.7 | | | | |
| 180.000 | Zahorra Artific | 1.645 | 33.62 | 308.3 | | | | |
| 200.000 | Zahorra Artific | 1.654 | 32.99 | 341.3 | | | | |
| 220.000 | Zahorra Artific | 1.686 | 33.44 | 374.7 | | | | |
| 240.000 | Zahorra Artific | 1.673 | 33.73 | 408.4 | | | | |
| 260.000 | Zahorra Artific | 1.682 | 33.56 | 442.0 | | | | |
| 280.000 | Zahorra Artific | 1.665 | 33.40 | 475.4 | | | | |
| 300.000 | Zahorra Artific | 1.676 | 33.47 | 508.9 | | | | |
| 320.000 | Zahorra Artific | 1.664 | 33.45 | 542.3 | | | | |
| 340.000 | Zahorra Artific | 1.645 | 33.11 | 575.4 | | | | |
| 360.000 | Zahorra Artific | 1.710 | 32.91 | 608.4 | | | | |
| 380.000 | Zahorra Artific | 1.681 | 33.29 | 641.6 | | | | |
| 400.000 | Zahorra Artific | 1.691 | 33.47 | 675.1 | | | | |
| 420.000 | Zahorra Artific | 1.680 | 33.26 | 708.4 | | | | |
| 440.000 | Zahorra Artific | 1.692 | 33.59 | 742.0 | | | | |

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2475.1 |
| Zahorra Artific | 755.2 | 2253.7 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 54 : CE 5.4 CD (F4-54.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 1.708 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.709 | 33.57 | 33.6 | | | | |
| 40.000 | Zahorra Artific | 1.576 | 0.00 | 33.6 | | | | |
| 60.000 | Zahorra Artific | 1.576 | 31.52 | 65.1 | | | | |
| 80.000 | Zahorra Artific | 1.576 | 31.52 | 96.6 | | | | |
| 100.000 | Zahorra Artific | 1.717 | 32.93 | 129.5 | | | | |
| 120.000 | Zahorra Artific | 1.717 | 34.34 | 163.9 | | | | |
| 140.000 | Zahorra Artific | 1.717 | 34.34 | 198.2 | | | | |
| 160.000 | Zahorra Artific | 1.696 | 33.92 | 232.1 | | | | |
| 180.000 | Zahorra Artific | 1.680 | 34.12 | 266.3 | | | | |
| 200.000 | Zahorra Artific | 1.717 | 33.56 | 299.8 | | | | |
| 220.000 | Zahorra Artific | 1.656 | 33.62 | 333.4 | | | | |
| 240.000 | Zahorra Artific | 1.717 | 34.27 | 367.7 | | | | |
| 260.000 | Zahorra Artific | 1.678 | 34.01 | 401.7 | | | | |
| 280.000 | Zahorra Artific | 1.699 | 34.08 | 435.8 | | | | |
| 300.000 | Zahorra Artific | 1.708 | 34.10 | 469.9 | | | | |
| 320.000 | Zahorra Artific | 1.717 | 34.32 | 504.2 | | | | |
| 340.000 | Zahorra Artific | 1.713 | 34.32 | 538.5 | | | | |

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1831.5 |
| Zahorra Artific | 546.1 | 1622.5 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 55 : CE 5.4 CI (F4-55.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 4.854 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.717 | 37.76 | 37.8 | | | | |
| 40.000 | Zahorra Artific | 1.668 | 33.70 | 71.5 | | | | |
| 60.000 | Zahorra Artific | 1.717 | 33.95 | 105.4 | | | | |
| 80.000 | Zahorra Artific | 1.677 | 34.22 | 139.6 | | | | |
| 100.000 | Zahorra Artific | 1.673 | 33.65 | 173.3 | | | | |
| 120.000 | Zahorra Artific | 1.645 | 33.37 | 206.7 | | | | |
| 140.000 | Zahorra Artific | 1.670 | 33.19 | 239.8 | | | | |
| 160.000 | Zahorra Artific | 1.717 | 33.67 | 273.5 | | | | |
| 180.000 | Zahorra Artific | 1.693 | 34.18 | 307.7 | | | | |
| 200.000 | Zahorra Artific | 1.685 | 33.37 | 341.1 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 55 : CE 5.4 CI (F4-55.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1230.2 |
| Zahorra Artific | 369.9 | 1097.2 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 56 : CE 6.2 CI (F4-56.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.146 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.691 | 40.86 | 40.9 | | | | |
| 40.000 | Zahorra Artific | 2.052 | 37.53 | 78.4 | | | | |
| 60.000 | Zahorra Artific | 2.052 | 41.03 | 119.4 | | | | |
| 80.000 | Zahorra Artific | 2.052 | 38.49 | 157.9 | | | | |
| 100.000 | Zahorra Artific | 2.052 | 39.53 | 197.4 | | | | |
| 120.000 | Zahorra Artific | 1.646 | 32.91 | 230.4 | | | | |
| 140.000 | Zahorra Artific | 1.682 | 33.09 | 263.4 | | | | |
| 160.000 | Zahorra Artific | 1.699 | 34.04 | 297.5 | | | | |
| 180.000 | Zahorra Artific | 1.690 | 33.70 | 331.2 | | | | |
| 200.000 | Zahorra Artific | 1.699 | 33.97 | 365.2 | | | | |
| 220.000 | Zahorra Artific | 1.697 | 33.87 | 399.0 | | | | |
| 240.000 | Zahorra Artific | 1.731 | 34.21 | 433.2 | | | | |
| 260.000 | Zahorra Artific | 1.763 | 35.03 | 468.3 | | | | |
| 280.000 | Zahorra Artific | 1.762 | 35.25 | 503.5 | | | | |
| 300.000 | Zahorra Artific | 1.762 | 35.25 | 538.8 | | | | |
| 320.000 | Zahorra Artific | 1.740 | 34.91 | 573.7 | | | | |
| 340.000 | Zahorra Artific | 1.735 | 34.84 | 608.5 | | | | |
| 360.000 | Zahorra Artific | 1.671 | 33.79 | 642.3 | | | | |
| 380.000 | Zahorra Artific | 1.690 | 33.88 | 676.2 | | | | |
| 400.000 | Zahorra Artific | 1.696 | 33.72 | 709.9 | | | | |
| 420.000 | Zahorra Artific | 1.597 | 32.98 | 742.9 | | | | |
| 440.000 | Zahorra Artific | 1.597 | 31.94 | 774.8 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 56 : CE 6.2 CI (F4-56.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2560.4 |
| Zahorra Artific | 794.9 | 2343.4 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 57 : CE 7.4 CD (F4-57.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.142 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.612 | 35.68 | 35.7 | | | | |
| 40.000 | Zahorra Artific | 1.670 | 32.69 | 68.4 | | | | |
| 60.000 | Zahorra Artific | 1.648 | 32.80 | 101.2 | | | | |
| 80.000 | Zahorra Artific | 1.713 | 33.50 | 134.7 | | | | |
| 100.000 | Zahorra Artific | 1.684 | 33.65 | 168.3 | | | | |
| 120.000 | Zahorra Artific | 1.696 | 33.83 | 202.1 | | | | |
| 140.000 | Zahorra Artific | 1.671 | 33.66 | 235.8 | | | | |
| 160.000 | Zahorra Artific | 1.672 | 33.34 | 269.1 | | | | |
| 180.000 | Zahorra Artific | 1.672 | 33.17 | 302.3 | | | | |
| 200.000 | Zahorra Artific | 1.697 | 33.74 | 336.1 | | | | |
| 220.000 | Zahorra Artific | 1.712 | 34.12 | 370.2 | | | | |
| 240.000 | Zahorra Artific | 1.715 | 34.28 | 404.5 | | | | |
| 260.000 | Zahorra Artific | 1.696 | 33.71 | 438.2 | | | | |
| 280.000 | Zahorra Artific | 1.699 | 33.92 | 472.1 | | | | |
| 300.000 | Zahorra Artific | 1.704 | 34.03 | 506.1 | | | | |
| 320.000 | Zahorra Artific | 1.700 | 34.04 | 540.2 | | | | |
| 340.000 | Zahorra Artific | 1.695 | 33.94 | 574.1 | | | | |
| 360.000 | Zahorra Artific | 1.618 | 33.12 | 607.2 | | | | |
| 380.000 | Zahorra Artific | 1.709 | 33.39 | 640.6 | | | | |
| 400.000 | Zahorra Artific | 1.715 | 34.30 | 674.9 | | | | |
| 420.000 | Zahorra Artific | 1.708 | 34.26 | 709.2 | | | | |
| 440.000 | Zahorra Artific | 1.717 | 33.88 | 743.0 | | | | |
| 460.000 | Zahorra Artific | 1.701 | 34.26 | 777.3 | | | | |
| 480.000 | Zahorra Artific | 1.673 | 33.93 | 811.2 | | | | |
| 500.000 | Zahorra Artific | 1.710 | 33.91 | 845.1 | | | | |
| 520.000 | Zahorra Artific | 1.710 | 34.23 | 879.4 | | | | |
| 540.000 | Zahorra Artific | 1.698 | 34.08 | 913.5 | | | | |
| 560.000 | Zahorra Artific | 1.698 | 33.91 | 947.4 | | | | |
| 580.000 | Zahorra Artific | 1.708 | 34.09 | 981.5 | | | | |
| 600.000 | Zahorra Artific | 1.712 | 34.21 | 1015.7 | | | | |
| 620.000 | Zahorra Artific | 1.674 | 33.61 | 1049.3 | | | | |
| 640.000 | Zahorra Artific | 1.703 | 33.68 | 1083.0 | | | | |
| 660.000 | Zahorra Artific | 1.713 | 34.19 | 1117.2 | | | | |
| 680.000 | Zahorra Artific | 1.665 | 33.46 | 1150.6 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 57 : CE 7.4 CD (F4-57.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 3868.4 |
| Zahorra Artific | 1171.5 | 3472.6 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 58 : C ACCESO (PI 3.7) (F4-58.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.772 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 2.206 | 59.58 | 59.6 | | | | |
| 40.000 | Zahorra Artific | 2.229 | 44.78 | 104.4 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 58 : C ACCESO (PI 3.7) (F4-58.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 475.0 |
| Zahorra Artific | 147.2 | 457.0 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 59 : C ACCESO (PI 4.5) (F4-59.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 4.776 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.576 | 35.04 | 35.0 | | | | |
| 40.000 | Zahorra Artific | 1.631 | 31.67 | 66.7 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 59 : C ACCESO (PI 4.5) (F4-59.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 306.7 |
| Zahorra Artific | 95.1 | 295.4 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 60 : PI 7.6 (Camino) (F4-60.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 40.000 | Zahorra Artific | 1.685 | 18.32 | 18.3 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 60 : PI 7.6 (Camino) (F4-60.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 109.9 |
| Zahorra Artific | 35.2 | 105.0 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 61 : CE 6.2 CD (F4-61.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 4.816 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.609 | 37.10 | 37.1 | | | | |
| 40.000 | Zahorra Artific | 1.696 | 33.34 | 70.4 | | | | |
| 60.000 | Zahorra Artific | 1.696 | 33.94 | 104.4 | | | | |
| 80.000 | Zahorra Artific | 1.704 | 33.98 | 138.4 | | | | |
| 100.000 | Zahorra Artific | 1.713 | 34.17 | 172.5 | | | | |
| 120.000 | Zahorra Artific | 1.466 | 33.28 | 205.8 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 61 : CE 6.2 CD (F4-61.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 737.3 |
| Zahorra Artific | 222.1 | 654.8 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 62 : CE 7.4 CI (F4-62.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.142 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.713 | 41.09 | 41.1 | | | | |
| 40.000 | Zahorra Artific | 1.703 | 34.12 | 75.2 | | | | |
| 60.000 | Zahorra Artific | 1.696 | 34.03 | 109.2 | | | | |
| 80.000 | Zahorra Artific | 1.665 | 33.71 | 142.9 | | | | |
| 100.000 | Zahorra Artific | 1.631 | 33.81 | 176.8 | | | | |
| 120.000 | Zahorra Artific | 1.646 | 32.81 | 209.6 | | | | |
| 140.000 | Zahorra Artific | 1.700 | 33.52 | 243.1 | | | | |
| 160.000 | Zahorra Artific | 1.710 | 34.15 | 277.2 | | | | |
| 180.000 | Zahorra Artific | 1.717 | 34.27 | 311.5 | | | | |
| 200.000 | Zahorra Artific | 1.713 | 34.33 | 345.8 | | | | |
| 220.000 | Zahorra Artific | 1.648 | 33.56 | 379.4 | | | | |
| 240.000 | Zahorra Artific | 1.644 | 32.90 | 412.3 | | | | |
| 260.000 | Zahorra Artific | 1.709 | 33.64 | 445.9 | | | | |
| 280.000 | Zahorra Artific | 1.695 | 33.99 | 479.9 | | | | |
| 300.000 | Zahorra Artific | 1.645 | 33.75 | 513.7 | | | | |
| 320.000 | Zahorra Artific | 1.652 | 33.17 | 546.8 | | | | |
| 340.000 | Zahorra Artific | 1.675 | 32.81 | 579.6 | | | | |
| 360.000 | Zahorra Artific | 1.670 | 33.55 | 613.2 | | | | |
| 380.000 | Zahorra Artific | 1.687 | 33.11 | 646.3 | | | | |
| 400.000 | Zahorra Artific | 1.657 | 33.79 | 680.1 | | | | |
| 420.000 | Zahorra Artific | 1.662 | 33.22 | 713.3 | | | | |
| 440.000 | Zahorra Artific | 1.647 | 32.97 | 746.3 | | | | |
| 460.000 | Zahorra Artific | 1.648 | 32.71 | 779.0 | | | | |
| 480.000 | Zahorra Artific | 1.696 | 33.35 | 812.3 | | | | |
| 500.000 | Zahorra Artific | 1.694 | 34.10 | 846.5 | | | | |
| 520.000 | Zahorra Artific | 1.689 | 34.04 | 880.5 | | | | |
| 540.000 | Zahorra Artific | 1.686 | 33.55 | 914.0 | | | | |
| 560.000 | Zahorra Artific | 1.690 | 33.79 | 947.8 | | | | |
| 580.000 | Zahorra Artific | 1.652 | 33.38 | 981.2 | | | | |
| 600.000 | Zahorra Artific | 1.712 | 33.88 | 1015.1 | | | | |
| 620.000 | Zahorra Artific | 1.707 | 34.00 | 1049.1 | | | | |
| 640.000 | Zahorra Artific | 1.660 | 34.01 | 1083.1 | | | | |
| 660.000 | Zahorra Artific | 1.951 | 38.29 | 1121.4 | | | | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 62 : CE 7.4 CI (F4-62.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 3818.1 |
| Zahorra Artific | 1153.3 | 3439.9 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 63 : CE 8.1 CI (F4-63.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 5.079 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.951 | 42.84 | 42.8 | | | | |
| 40.000 | Zahorra Artific | 1.717 | 35.36 | 78.2 | | | | |
| 60.000 | Zahorra Artific | 1.717 | 34.34 | 112.5 | | | | |
| 80.000 | Zahorra Artific | 1.717 | 33.65 | 146.2 | | | | |
| 100.000 | Zahorra Artific | 1.705 | 33.63 | 179.8 | | | | |
| 120.000 | Zahorra Artific | 1.699 | 33.47 | 213.3 | | | | |
| 140.000 | Zahorra Artific | 1.646 | 33.75 | 247.0 | | | | |
| 160.000 | Zahorra Artific | 1.623 | 33.36 | 280.4 | | | | |
| 180.000 | Zahorra Artific | 1.951 | 34.23 | 314.6 | | | | |
| 200.000 | Zahorra Artific | 1.708 | 37.81 | 352.4 | | | | |
| 220.000 | Zahorra Artific | 1.715 | 34.27 | 386.7 | | | | |
| 240.000 | Zahorra Artific | 1.711 | 34.23 | 421.0 | | | | |

| | | | | |
|---------|-----------------|-------|-------|-------|
| 260.000 | Zahorra Artific | 1.716 | 34.29 | 455.2 |
| 280.000 | Zahorra Artific | 1.717 | 34.33 | 489.6 |
| 300.000 | Zahorra Artific | 1.695 | 34.23 | 523.8 |
| 320.000 | Zahorra Artific | 1.717 | 34.23 | 558.0 |
| 340.000 | Zahorra Artific | 1.716 | 34.33 | 592.4 |
| 360.000 | Zahorra Artific | 1.712 | 34.26 | 626.6 |
| 380.000 | Zahorra Artific | 1.694 | 34.07 | 660.7 |
| 400.000 | Zahorra Artific | 1.672 | 33.64 | 694.3 |
| 420.000 | Zahorra Artific | 1.649 | 33.22 | 727.6 |
| 440.000 | Zahorra Artific | 1.717 | 34.00 | 761.6 |
| 460.000 | Zahorra Artific | 1.717 | 34.34 | 795.9 |
| 480.000 | Zahorra Artific | 1.712 | 33.88 | 829.8 |
| 500.000 | Zahorra Artific | 1.717 | 34.02 | 863.8 |
| 520.000 | Zahorra Artific | 1.717 | 34.34 | 898.1 |
| 540.000 | Zahorra Artific | 1.717 | 34.34 | 932.5 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 63 : CE 8.1 CI (F4-63.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 3167.2 |
| Zahorra Artific | 941.6 | 2784.3 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 77 : PI 6.2 (Camino) (F4-77.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.080 | 0.00 | 0.0 | AC22bin50/70S | 0.567 | 0.00 | 0.0 |
| | AC16surfB50/70S | 0.378 | 0.00 | 0.0 | | | | |
| 20.000 | Suelocemento | 2.080 | 41.60 | 41.6 | AC22bin50/70S | 0.567 | 11.34 | 11.3 |
| | AC16surfB50/70S | 0.378 | 7.56 | 7.6 | | | | |
| 40.000 | Suelocemento | 2.080 | 41.60 | 83.2 | AC22bin50/70S | 0.567 | 11.34 | 22.7 |
| | AC16surfB50/70S | 0.378 | 7.56 | 15.1 | | | | |
| 60.000 | Suelocemento | 2.246 | 43.26 | 126.5 | AC22bin50/70S | 0.582 | 11.49 | 34.2 |
| | AC16surfB50/70S | 0.380 | 7.58 | 22.7 | C31 | 2.205 | 22.05 | 22.1 |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 77 : PI 6.2 (Camino) (F4-77.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 865.7 |
| Suelocemento | 166.3 | 713.6 |
| AC22bin50/70S | 44.5 | 704.6 |
| AC16surfB50/70S | 29.4 | 699.6 |
| C31 | 61.1 | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 78 : PI 8.1 (C-252) (F4-78.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.082 | 0.00 | 0.0 | AC22bin50/70S | 0.568 | 0.00 | 0.0 |
| | AC16surfB50/70S | 0.378 | 0.00 | 0.0 | | | | |
| 20.000 | Suelocemento | 2.082 | 41.64 | 41.6 | AC22bin50/70S | 0.568 | 11.36 | 11.4 |
| | AC16surfB50/70S | 0.378 | 7.56 | 7.6 | C31 | 0.001 | 0.02 | 0.0 |
| 40.000 | Suelocemento | 2.082 | 41.64 | 83.3 | AC22bin50/70S | 0.568 | 11.36 | 22.7 |
| | AC16surfB50/70S | 0.378 | 7.56 | 15.1 | C31 | 0.001 | 0.02 | 0.0 |
| 60.000 | Suelocemento | 2.082 | 41.64 | 124.9 | AC22bin50/70S | 0.568 | 11.36 | 34.1 |
| | AC16surfB50/70S | 0.378 | 7.56 | 22.7 | C31 | 0.001 | 0.02 | 0.1 |
| 80.000 | Suelocemento | 2.082 | 41.64 | 166.6 | AC22bin50/70S | 0.568 | 11.36 | 45.4 |
| | AC16surfB50/70S | 0.378 | 7.56 | 30.2 | C31 | 0.001 | 0.02 | 0.1 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 78 : PI 8.1 (C-252) (F4-78.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 953.0 |
| Suelocemento | 180.7 | 782.5 |
| AC22bin50/70S | 49.3 | 782.5 |
| AC16surfB50/70S | 32.8 | 781.1 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 81 : E1 RAMAL 2 (81.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|------------------|-------------|--------------|--------------|------------------|-------------|--------------|--------------|
| 16.780 | Suelocemento | 1.213 | 0.00 | 0.0 | AC32base50/70G | 0.393 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.272 | 0.00 | 0.0 | PA11 45/80-60C | 0.212 | 0.00 | 0.0 |
| | ZA (Arc) | 0.730 | 0.00 | 0.0 | AC22bin50/70 (a) | 0.134 | 0.00 | 0.0 |
| | PA1145/80-60 (a) | 0.105 | 0.00 | 0.0 | C31 | 0.698 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 1.222 | 3.92 | 3.9 | AC32base50/70G | 0.397 | 1.27 | 1.3 |
| | AC22bin50/70S | 0.275 | 0.88 | 0.9 | PA11 45/80-60C | 0.214 | 0.69 | 0.7 |
| | ZA (Arc) | 0.731 | 2.35 | 2.4 | AC22bin50/70 (a) | 0.134 | 0.43 | 0.4 |
| | PA1145/80-60 (a) | 0.105 | 0.34 | 0.3 | C31 | 0.622 | 2.12 | 2.1 |
| 40.000 | Suelocemento | 1.283 | 25.05 | 29.0 | AC32base50/70G | 0.419 | 8.16 | 9.4 |
| | AC22bin50/70S | 0.290 | 5.65 | 6.5 | PA11 45/80-60C | 0.226 | 4.40 | 5.1 |
| | ZA (Arc) | 0.731 | 14.61 | 17.0 | AC22bin50/70 (a) | 0.134 | 2.68 | 3.1 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 2.4 | C31 | 0.958 | 16.61 | 18.7 |
| 60.000 | Suelocemento | 1.343 | 26.26 | 55.2 | AC32base50/70G | 0.440 | 8.59 | 18.0 |
| | AC22bin50/70S | 0.306 | 5.96 | 12.5 | PA11 45/80-60C | 0.239 | 4.65 | 9.7 |
| | ZA (Arc) | 0.731 | 14.61 | 31.6 | AC22bin50/70 (a) | 0.134 | 2.68 | 5.8 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 4.5 | C31 | 0.937 | 18.95 | 37.7 |
| 80.000 | Suelocemento | 1.378 | 27.36 | 82.6 | AC32base50/70G | 0.453 | 8.99 | 27.0 |
| | AC22bin50/70S | 0.315 | 6.25 | 18.7 | PA11 45/80-60C | 0.246 | 4.88 | 14.6 |
| | ZA (Arc) | 0.731 | 14.62 | 46.2 | AC22bin50/70 (a) | 0.134 | 2.67 | 8.5 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 6.6 | C31 | 0.925 | 18.56 | 56.2 |
| 100.000 | Suelocemento | 1.378 | 27.57 | 110.2 | AC32base50/70G | 0.453 | 9.06 | 36.1 |
| | AC22bin50/70S | 0.315 | 6.30 | 25.0 | PA11 45/80-60C | 0.246 | 4.92 | 19.5 |
| | ZA (Arc) | 0.731 | 14.62 | 60.8 | AC22bin50/70 (a) | 0.134 | 2.68 | 11.1 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 8.7 | C31 | 0.925 | 18.49 | 74.7 |
| 120.000 | Suelocemento | 1.366 | 27.55 | 137.7 | AC32base50/70G | 0.449 | 9.06 | 45.1 |
| | AC22bin50/70S | 0.312 | 6.29 | 31.3 | PA11 45/80-60C | 0.244 | 4.92 | 24.5 |
| | ZA (Arc) | 0.731 | 14.62 | 75.4 | AC22bin50/70 (a) | 0.134 | 2.68 | 13.8 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 10.8 | C31 | 0.925 | 18.49 | 93.2 |
| 140.000 | Suelocemento | 1.287 | 26.53 | 164.2 | AC32base50/70G | 0.421 | 8.70 | 53.8 |
| | AC22bin50/70S | 0.292 | 6.04 | 37.4 | PA11 45/80-60C | 0.228 | 4.72 | 29.2 |
| | ZA (Arc) | 0.731 | 14.62 | 90.1 | AC22bin50/70 (a) | 0.134 | 2.68 | 16.5 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 12.9 | C31 | 0.925 | 18.49 | 111.7 |
| 160.000 | Suelocemento | 1.236 | 25.06 | 189.3 | AC32base50/70G | 0.402 | 8.17 | 62.0 |
| | AC22bin50/70S | 0.278 | 5.66 | 43.0 | PA11 45/80-60C | 0.217 | 4.41 | 33.6 |
| | ZA (Arc) | 0.730 | 14.61 | 104.7 | AC22bin50/70 (a) | 0.133 | 2.68 | 19.2 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 15.0 | C31 | 0.966 | 18.95 | 130.7 |
| 180.000 | Suelocemento | 1.238 | 24.75 | 214.0 | AC32base50/70G | 0.401 | 8.03 | 70.0 |
| | AC22bin50/70S | 0.277 | 5.56 | 48.6 | PA11 45/80-60C | 0.216 | 4.33 | 37.9 |
| | ZA (Arc) | 0.727 | 14.57 | 119.2 | AC22bin50/70 (a) | 0.134 | 2.68 | 21.8 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 17.1 | C31 | 0.957 | 19.21 | 149.9 |
| 200.000 | Suelocemento | 1.234 | 24.73 | 238.8 | AC32base50/70G | 0.398 | 7.99 | 78.0 |
| | AC22bin50/70S | 0.275 | 5.53 | 54.1 | PA11 45/80-60C | 0.214 | 4.30 | 42.2 |
| | ZA (Arc) | 0.723 | 14.50 | 133.7 | AC22bin50/70 (a) | 0.134 | 2.68 | 24.5 |
| | PA1145/80-60 (a) | 0.105 | 2.10 | 19.2 | C31 | 0.963 | 19.18 | 169.1 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 2 : E1-ENLACE C-31
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 81 : E1 RAMAL 2 (81.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|------------------|---------|-----------------|
| SUBRASANTE | | 2240.2 |
| Suelocemento | 248.1 | 1154.8 |
| AC32base50/70G | 81.0 | 1089.9 |
| AC22bin50/70S | 56.2 | 1061.2 |
| PA11 45/80-60C | 43.8 | 1036.4 |
| ZA (Arc) | 139.2 | 505.4 |
| AC22bin50/70 (a) | 25.5 | 486.7 |
| PA1145/80-60 (a) | 20.0 | 477.6 |
| C31 | 176.3 | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 96 : CE 6.8 CD (F4-96.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 8.000 | Zahorra Artific | 1.599 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.717 | 20.05 | 20.0 | | | | |

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 139.6 |
| Zahorra Artific | 41.6 | 123.7 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 141 : PI 4.8 (GIV-6221) (F4-141.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.013 | 0.00 | 0.0 | AC22bin50/70S | 0.519 | 0.00 | 0.0 |
| | AC16surfB50/70S | 0.338 | 0.00 | 0.0 | C31 | 0.310 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 2.014 | 40.14 | 40.1 | AC22bin50/70S | 0.519 | 10.38 | 10.4 |
| | AC16surfB50/70S | 0.338 | 6.75 | 6.8 | C31 | 0.289 | 5.56 | 5.6 |
| 40.000 | Suelocemento | 1.849 | 37.64 | 77.8 | AC22bin50/70S | 0.504 | 10.14 | 20.5 |
| | AC16surfB50/70S | 0.336 | 6.73 | 13.5 | C31 | 0.000 | 1.23 | 6.8 |
| 60.000 | Suelocemento | 2.013 | 38.23 | 116.0 | AC22bin50/70S | 0.519 | 10.20 | 30.7 |
| | AC16surfB50/70S | 0.338 | 6.73 | 20.2 | C31 | 0.310 | 2.11 | 8.9 |
| 80.000 | Suelocemento | 2.013 | 40.26 | 156.3 | AC22bin50/70S | 0.519 | 10.38 | 41.1 |
| | AC16surfB50/70S | 0.338 | 6.75 | 27.0 | C31 | 0.310 | 6.20 | 15.1 |

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 828.1 |
| Suelocemento | 175.2 | 745.5 |
| AC22bin50/70S | 46.0 | 726.1 |
| AC16surfB50/70S | 30.1 | 715.2 |
| C31 | 18.0 | |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 144 : CE 7.4 CI-CD (PI 7.4) (F4-144.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 2.022 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 2.022 | 40.43 | 40.4 | | | | |
| 40.000 | Zahorra Artific | 2.022 | 40.43 | 80.9 | | | | |
| 60.000 | Zahorra Artific | 2.022 | 40.43 | 121.3 | | | | |
| 80.000 | Zahorra Artific | 2.022 | 40.44 | 161.7 | | | | |

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 573.7 |
| Zahorra Artific | 184.9 | 457.3 |

Istram 22.11.11.15 21/11/22 10:31:55 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 146 : CONNEXION CON AVDA. DE L'EMPORDÀ 1 (F4-146.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 1.669 | 0.00 | 0.0 | C31 | 0.040 | 0.00 | 0.0 |
| 20.000 | Zahorra Artific | 1.621 | 32.83 | 32.8 | C31 | 0.003 | 1.03 | 1.0 |
| 40.000 | Zahorra Artific | 1.661 | 33.05 | 65.9 | C31 | 0.029 | 0.80 | 1.8 |
| 60.000 | Zahorra Artific | 1.669 | 33.34 | 99.2 | C31 | 0.047 | 1.11 | 2.9 |
| 80.000 | Zahorra Artific | 1.669 | 33.37 | 132.6 | C31 | 0.362 | 6.43 | 9.4 |
| 100.000 | Zahorra Artific | 1.648 | 33.37 | 166.0 | C31 | 0.335 | 7.41 | 16.8 |
| 120.000 | Zahorra Artific | 1.669 | 32.91 | 198.9 | C31 | 0.488 | 6.68 | 23.5 |
| 140.000 | Zahorra Artific | 1.669 | 33.39 | 232.3 | C31 | 0.488 | 9.61 | 33.1 |
| 160.000 | Zahorra Artific | 1.642 | 32.73 | 265.0 | C31 | 0.404 | 8.16 | 41.2 |
| 180.000 | Zahorra Artific | 1.626 | 32.68 | 297.7 | C31 | 0.401 | 8.29 | 49.5 |
| 200.000 | Zahorra Artific | 1.669 | 32.85 | 330.5 | C31 | 0.428 | 6.09 | 55.6 |
| 220.000 | Zahorra Artific | 1.645 | 33.00 | 363.5 | C31 | 0.298 | 7.13 | 62.8 |
| 240.000 | Zahorra Artific | 1.669 | 33.26 | 396.8 | C31 | 0.356 | 6.65 | 69.4 |
| 260.000 | Zahorra Artific | 1.633 | 32.97 | 429.7 | C31 | 0.278 | 6.18 | 75.6 |
| 280.000 | Zahorra Artific | 1.622 | 32.65 | 462.4 | C31 | 0.278 | 5.75 | 81.3 |
| 300.000 | Zahorra Artific | 1.628 | 32.56 | 495.0 | C31 | 0.269 | 5.47 | 86.8 |
| 320.000 | Zahorra Artific | 1.621 | 32.48 | 527.4 | C31 | 0.256 | 5.24 | 92.0 |
| 340.000 | Zahorra Artific | 1.663 | 32.83 | 560.3 | C31 | 0.312 | 5.58 | 97.6 |
| 360.000 | Zahorra Artific | 1.658 | 33.11 | 593.4 | C31 | 0.309 | 6.34 | 104.0 |
| 380.000 | Zahorra Artific | 1.659 | 33.29 | 626.7 | C31 | 0.405 | 6.54 | 110.5 |
| 400.000 | Zahorra Artific | 1.669 | 32.87 | 659.5 | C31 | 0.473 | 7.29 | 117.8 |
| 420.000 | Zahorra Artific | 1.669 | 33.30 | 692.8 | C31 | 0.363 | 8.64 | 126.4 |
| 440.000 | Zahorra Artific | 1.669 | 33.25 | 726.1 | C31 | 0.355 | 6.89 | 133.3 |
| 460.000 | Zahorra Artific | 1.663 | 33.38 | 759.5 | C31 | 0.407 | 7.10 | 140.4 |
| 480.000 | Zahorra Artific | 1.662 | 33.21 | 792.7 | C31 | 0.407 | 8.12 | 148.5 |
| 500.000 | Zahorra Artific | 1.668 | 33.29 | 826.0 | C31 | 0.412 | 8.17 | 156.7 |
| 520.000 | Zahorra Artific | 1.669 | 33.38 | 859.4 | C31 | 0.423 | 8.40 | 165.1 |

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 3604.6 |
| Zahorra Artific | 888.6 | 2688.6 |
| C31 | 172.0 | |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 147 : CE 1.1 CI (F4-147.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.832 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.695 | 46.99 | 47.0 | | | | |
| 40.000 | Zahorra Artific | 1.715 | 34.20 | 81.2 | | | | |
| 60.000 | Zahorra Artific | 1.951 | 35.33 | 116.5 | | | | |
| 80.000 | Zahorra Artific | 1.663 | 34.32 | 150.9 | | | | |
| 100.000 | Zahorra Artific | 1.671 | 33.47 | 184.3 | | | | |
| 120.000 | Zahorra Artific | 1.714 | 34.00 | 218.3 | | | | |
| 140.000 | Zahorra Artific | 1.693 | 34.17 | 252.5 | | | | |
| 160.000 | Zahorra Artific | 1.951 | 35.31 | 287.8 | | | | |
| 180.000 | Zahorra Artific | 1.705 | 37.02 | 324.8 | | | | |
| 200.000 | Zahorra Artific | 1.717 | 34.19 | 359.0 | | | | |
| 220.000 | Zahorra Artific | 1.714 | 34.32 | 393.3 | | | | |
| 240.000 | Zahorra Artific | 1.702 | 34.08 | 427.4 | | | | |
| 260.000 | Zahorra Artific | 1.631 | 33.31 | 460.7 | | | | |
| 280.000 | Zahorra Artific | 1.609 | 32.93 | 493.6 | | | | |
| 300.000 | Zahorra Artific | 1.951 | 37.32 | 531.0 | | | | |
| 320.000 | Zahorra Artific | 1.951 | 39.03 | 570.0 | | | | |
| 340.000 | Zahorra Artific | 1.951 | 39.03 | 609.0 | | | | |
| 360.000 | Zahorra Artific | 1.951 | 39.03 | 648.0 | | | | |

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2226.1 |
| Zahorra Artific | 667.2 | 2005.3 |

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 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 154 : CE 2.5 CI (F4-154.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 2.057 | 0.00 | 0.0 |
| 20.000 | Zahorra Artific | 1.663 | 35.63 | 35.6 |
| 40.000 | Zahorra Artific | 1.702 | 33.79 | 69.4 |
| 60.000 | Zahorra Artific | 1.712 | 33.46 | 102.9 |
| 80.000 | Zahorra Artific | 1.717 | 34.31 | 137.2 |
| 100.000 | Zahorra Artific | 1.706 | 34.21 | 171.4 |
| 120.000 | Zahorra Artific | 1.654 | 33.91 | 205.3 |
| 160.000 | Zahorra Artific | 1.638 | 65.44 | 270.8 |
| 180.000 | Zahorra Artific | 1.946 | 34.34 | 305.1 |
| 200.000 | Zahorra Artific | 1.946 | 38.92 | 344.0 |
| 220.000 | Zahorra Artific | 1.946 | 38.92 | 382.9 |
| 240.000 | Zahorra Artific | 1.946 | 38.92 | 421.9 |
| 260.000 | Zahorra Artific | 1.760 | 38.08 | 459.9 |
| 280.000 | Zahorra Artific | 1.700 | 33.91 | 493.8 |
| 300.000 | Zahorra Artific | 1.687 | 33.82 | 527.7 |
| 320.000 | Zahorra Artific | 1.659 | 33.30 | 561.0 |
| 340.000 | Zahorra Artific | 1.717 | 34.14 | 595.1 |
| 360.000 | Zahorra Artific | 1.687 | 34.28 | 629.4 |
| 380.000 | Zahorra Artific | 1.686 | 33.73 | 663.1 |
| 400.000 | Zahorra Artific | 1.687 | 33.74 | 696.9 |
| 420.000 | Zahorra Artific | 1.687 | 33.74 | 730.6 |
| 440.000 | Zahorra Artific | 1.709 | 33.77 | 764.4 |
| 460.000 | Zahorra Artific | 1.717 | 34.30 | 798.7 |
| 480.000 | Zahorra Artific | 1.717 | 34.34 | 833.0 |
| 500.000 | Zahorra Artific | 1.717 | 34.31 | 867.3 |
| 520.000 | Zahorra Artific | 1.681 | 34.01 | 901.3 |
| 540.000 | Zahorra Artific | 1.717 | 33.44 | 934.8 |
| 560.000 | Zahorra Artific | 1.717 | 34.34 | 969.1 |
| 580.000 | Zahorra Artific | 1.717 | 34.34 | 1003.4 |
| 600.000 | Zahorra Artific | 1.717 | 34.34 | 1037.8 |
| 620.000 | Zahorra Artific | 1.717 | 34.34 | 1072.1 |
| 640.000 | Zahorra Artific | 1.716 | 34.33 | 1106.4 |
| 660.000 | Zahorra Artific | 1.712 | 34.10 | 1140.5 |
| 680.000 | Zahorra Artific | 1.677 | 34.04 | 1174.6 |
| 700.000 | Zahorra Artific | 1.717 | 33.51 | 1208.1 |
| 720.000 | Zahorra Artific | 1.686 | 33.67 | 1241.7 |
| 740.000 | Zahorra Artific | 1.670 | 33.55 | 1275.3 |
| 760.000 | Zahorra Artific | 1.668 | 33.38 | 1308.7 |
| 780.000 | Zahorra Artific | 1.714 | 34.03 | 1342.7 |
| 800.000 | Zahorra Artific | 1.713 | 34.27 | 1377.0 |
| 820.000 | Zahorra Artific | 1.707 | 34.22 | 1411.2 |
| 840.000 | Zahorra Artific | 1.705 | 34.09 | 1445.3 |
| 860.000 | Zahorra Artific | 1.658 | 33.94 | 1479.2 |
| 880.000 | Zahorra Artific | 1.704 | 33.63 | 1512.9 |
| 900.000 | Zahorra Artific | 1.712 | 33.90 | 1546.8 |
| 920.000 | Zahorra Artific | 1.709 | 34.28 | 1581.0 |
| 940.000 | Zahorra Artific | 1.646 | 33.58 | 1614.6 |
| 960.000 | Zahorra Artific | 1.695 | 33.76 | 1648.4 |
| 980.000 | Zahorra Artific | 1.664 | 33.55 | 1681.9 |
| 1000.000 | Zahorra Artific | 1.636 | 32.76 | 1714.7 |
| 1020.000 | Zahorra Artific | 1.675 | 33.43 | 1748.1 |
| 1040.000 | Zahorra Artific | 1.687 | 33.68 | 1781.8 |
| 1060.000 | Zahorra Artific | 1.687 | 33.74 | 1815.5 |
| 1080.000 | Zahorra Artific | 1.684 | 33.72 | 1849.3 |
| 1100.000 | Zahorra Artific | 1.685 | 33.64 | 1882.9 |
| 1120.000 | Zahorra Artific | 1.672 | 33.60 | 1916.5 |
| 1140.000 | Zahorra Artific | 1.640 | 33.12 | 1949.6 |
| 1160.000 | Zahorra Artific | 1.687 | 33.51 | 1983.1 |
| 1180.000 | Zahorra Artific | 1.687 | 33.74 | 2016.9 |
| 1200.000 | Zahorra Artific | 1.632 | 32.82 | 2049.7 |
| 1220.000 | Zahorra Artific | 1.663 | 32.92 | 2082.6 |
| 1240.000 | Zahorra Artific | 1.703 | 33.65 | 2116.3 |
| 1260.000 | Zahorra Artific | 1.717 | 33.55 | 2149.8 |
| 1280.000 | Zahorra Artific | 1.717 | 34.33 | 2184.1 |
| 1300.000 | Zahorra Artific | 1.717 | 34.33 | 2218.5 |
| 1320.000 | Zahorra Artific | 1.717 | 34.34 | 2252.8 |
| 1340.000 | Zahorra Artific | 1.671 | 34.11 | 2286.9 |
| 1360.000 | Zahorra Artific | 1.693 | 33.67 | 2320.6 |
| 1380.000 | Zahorra Artific | 1.713 | 34.07 | 2354.7 |
| 1400.000 | Zahorra Artific | 1.716 | 34.31 | 2389.0 |
| 1420.000 | Zahorra Artific | 1.707 | 34.25 | 2423.2 |
| 1440.000 | Zahorra Artific | 1.679 | 34.00 | 2457.2 |
| 1460.000 | Zahorra Artific | 1.678 | 33.42 | 2490.6 |
| 1480.000 | Zahorra Artific | 1.668 | 33.50 | 2524.1 |
| 1500.000 | Zahorra Artific | 1.715 | 34.07 | 2558.2 |
| 1520.000 | Zahorra Artific | 1.689 | 34.22 | 2592.4 |
| 1540.000 | Zahorra Artific | 1.708 | 33.63 | 2626.1 |
| 1560.000 | Zahorra Artific | 1.643 | 33.91 | 2660.0 |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 154 : CE 2.5 CI (F4-154.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|----------|-----------------|-------------|--------------|--------------|
| 1580.000 | Zahorra Artific | 1.654 | 33.02 | 2693.0 |
| 1600.000 | Zahorra Artific | 1.664 | 33.06 | 2726.0 |
| 1620.000 | Zahorra Artific | 1.693 | 33.65 | 2759.7 |
| 1640.000 | Zahorra Artific | 1.670 | 33.38 | 2793.1 |
| 1660.000 | Zahorra Artific | 1.663 | 33.23 | 2826.3 |
| 1680.000 | Zahorra Artific | 1.693 | 33.52 | 2859.8 |
| 1700.000 | Zahorra Artific | 1.662 | 34.01 | 2893.9 |
| 1720.000 | Zahorra Artific | 1.716 | 33.81 | 2927.7 |
| 1740.000 | Zahorra Artific | 1.717 | 34.19 | 2961.8 |
| 1760.000 | Zahorra Artific | 1.717 | 34.33 | 2996.2 |
| 1780.000 | Zahorra Artific | 1.699 | 34.13 | 3030.3 |
| 1800.000 | Zahorra Artific | 1.710 | 34.05 | 3064.3 |
| 1820.000 | Zahorra Artific | 1.717 | 34.30 | 3098.6 |
| 1840.000 | Zahorra Artific | 1.702 | 34.25 | 3132.9 |
| 1860.000 | Zahorra Artific | 1.669 | 33.60 | 3166.5 |
| 1880.000 | Zahorra Artific | 1.712 | 33.84 | 3200.3 |
| 1900.000 | Zahorra Artific | 1.717 | 34.31 | 3234.7 |
| 1920.000 | Zahorra Artific | 1.717 | 34.33 | 3269.0 |
| 1940.000 | Zahorra Artific | 1.717 | 34.34 | 3303.3 |
| 1960.000 | Zahorra Artific | 1.717 | 34.34 | 3337.7 |
| 1980.000 | Zahorra Artific | 1.700 | 34.22 | 3371.9 |
| 2000.000 | Zahorra Artific | 1.644 | 33.38 | 3405.3 |
| 2020.000 | Zahorra Artific | 1.717 | 33.97 | 3439.2 |
| 2040.000 | Zahorra Artific | 1.717 | 34.34 | 3473.6 |
| 2060.000 | Zahorra Artific | 1.678 | 33.55 | 3507.1 |
| 2080.000 | Zahorra Artific | 1.715 | 34.00 | 3541.1 |
| 2100.000 | Zahorra Artific | 1.716 | 34.33 | 3575.4 |
| 2120.000 | Zahorra Artific | 1.659 | 33.89 | 3609.3 |
| 2140.000 | Zahorra Artific | 1.717 | 34.04 | 3643.4 |
| 2160.000 | Zahorra Artific | 1.717 | 34.34 | 3677.7 |
| 2180.000 | Zahorra Artific | 1.717 | 34.34 | 3712.1 |
| 2200.000 | Zahorra Artific | 1.704 | 34.27 | 3746.3 |
| 2220.000 | Zahorra Artific | 1.677 | 33.93 | 3780.3 |
| 2240.000 | Zahorra Artific | 1.717 | 33.54 | 3813.8 |
| 2260.000 | Zahorra Artific | 1.717 | 34.34 | 3848.1 |
| 2280.000 | Zahorra Artific | 1.716 | 34.26 | 3882.4 |
| 2300.000 | Zahorra Artific | 1.709 | 34.22 | 3916.6 |
| 2320.000 | Zahorra Artific | 1.717 | 34.30 | 3950.9 |
| 2340.000 | Zahorra Artific | 1.717 | 34.34 | 3985.2 |
| 2360.000 | Zahorra Artific | 1.706 | 34.28 | 4019.5 |
| 2380.000 | Zahorra Artific | 1.768 | 34.12 | 4053.6 |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 6 : CAMINOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 154 : CE 2.5 CI (F4-154.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 13651.6 |
| Zahorra Artific | 4063.2 | 12020.9 |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 159 : ENLACE FIGUERES R7 (F4-159.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|------------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 660.000 | Suelocemento | 1.784 | 9.96 | 10.0 | AC22bin50/70S | 0.456 | 2.55 | 2.5 |
| | AC16surfB50/70S | 0.296 | 1.65 | 1.7 | ZA (Arc) | 0.862 | 4.81 | 4.8 |
| | AC16suf50/70 (a) | 0.126 | 0.70 | 0.7 | C31 | 0.865 | 4.87 | 4.9 |
| 680.000 | Suelocemento | 1.784 | 35.67 | 45.6 | AC22bin50/70S | 0.456 | 9.12 | 11.7 |
| | AC16surfB50/70S | 0.296 | 5.91 | 7.6 | ZA (Arc) | 0.861 | 17.22 | 22.0 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 3.2 | C31 | 0.844 | 17.12 | 22.0 |
| 700.000 | Suelocemento | 1.784 | 35.67 | 81.3 | AC22bin50/70S | 0.456 | 9.12 | 20.8 |
| | AC16surfB50/70S | 0.296 | 5.91 | 13.5 | ZA (Arc) | 0.860 | 17.21 | 39.2 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 5.7 | C31 | 0.823 | 16.35 | 38.3 |
| 720.000 | Suelocemento | 1.784 | 35.67 | 117.0 | AC22bin50/70S | 0.456 | 9.12 | 29.9 |
| | AC16surfB50/70S | 0.296 | 5.91 | 19.4 | ZA (Arc) | 0.860 | 17.20 | 56.4 |
| | AC16suf50/70 (a) | 0.126 | 2.52 | 8.3 | C31 | 0.846 | 15.90 | 54.2 |
| 740.000 | Suelocemento | 1.702 | 35.01 | 152.0 | AC22bin50/70S | 0.449 | 9.07 | 39.0 |
| | AC16surfB50/70S | 0.295 | 5.91 | 25.3 | ZA (Arc) | 0.352 | 12.36 | 68.8 |
| | AC16suf50/70 (a) | 0.062 | 1.99 | 10.3 | C31 | 0.001 | 5.71 | 59.9 |
| 760.000 | Suelocemento | 1.716 | 34.08 | 186.1 | AC22bin50/70S | 0.453 | 8.99 | 48.0 |
| | AC16surfB50/70S | 0.297 | 5.90 | 31.2 | ZA (Arc) | 0.353 | 7.04 | 75.9 |
| | AC16suf50/70 (a) | 0.062 | 1.24 | 11.5 | C31 | 0.001 | 0.02 | 60.0 |
| 780.000 | Suelocemento | 1.769 | 34.85 | 220.9 | AC22bin50/70S | 0.468 | 9.21 | 57.2 |
| | AC16surfB50/70S | 0.307 | 6.05 | 37.3 | ZA (Arc) | 0.354 | 7.06 | 82.9 |
| | AC16suf50/70 (a) | 0.062 | 1.24 | 12.7 | C31 | 0.001 | 0.02 | 60.0 |
| 800.000 | Suelocemento | 1.823 | 35.92 | 256.8 | AC22bin50/70S | 0.482 | 9.50 | 66.7 |
| | AC16surfB50/70S | 0.317 | 6.24 | 43.5 | ZA (Arc) | 0.354 | 7.08 | 90.0 |
| | AC16suf50/70 (a) | 0.062 | 1.24 | 14.0 | C31 | 0.001 | 0.02 | 60.0 |
| 820.000 | Suelocemento | 1.878 | 37.01 | 293.8 | AC22bin50/70S | 0.497 | 9.80 | 76.5 |
| | AC16surfB50/70S | 0.327 | 6.44 | 49.9 | ZA (Arc) | 0.353 | 7.08 | 97.1 |
| | AC16suf50/70 (a) | 0.062 | 1.24 | 15.2 | C31 | 0.001 | 0.02 | 60.0 |
| 840.000 | Suelocemento | 1.933 | 38.11 | 332.0 | AC22bin50/70S | 0.512 | 10.09 | 86.6 |
| | AC16surfB50/70S | 0.337 | 6.64 | 56.6 | ZA (Arc) | 0.352 | 7.06 | 104.1 |
| | AC16suf50/70 (a) | 0.062 | 1.24 | 16.5 | C31 | 0.001 | 0.02 | 60.0 |

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 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 159 : ENLACE FIGUERES R7 (F4-159.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|------------------|---------|-----------------|
| SUBRASANTE | | 2282.1 |
| Suelocemento | 332.0 | 1410.1 |
| AC22bin50/70S | 86.6 | 1368.0 |
| AC16surfB50/70S | 56.6 | 1343.4 |
| ZA (Arc) | 104.1 | 392.8 |
| AC16suf50/70 (a) | 16.5 | 395.1 |
| C31 | 60.0 | |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 160 : AVDA. DE L'EMPORDÀ (PI 0.4) (F4-160.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 2.687 | 0.00 | 0.0 | AC16surfB50/70S | 0.354 | 0.00 | 0.0 |
| 20.000 | Zahorra Artific | 2.687 | 53.74 | 53.7 | AC16surfB50/70S | 0.354 | 7.08 | 7.1 |
| 40.000 | Zahorra Artific | 2.687 | 53.74 | 107.5 | AC16surfB50/70S | 0.354 | 7.08 | 14.2 |
| 60.000 | Zahorra Artific | 2.686 | 53.73 | 161.2 | AC16surfB50/70S | 0.354 | 7.08 | 21.2 |
| 80.000 | Zahorra Artific | 2.709 | 54.34 | 215.5 | AC16surfB50/70S | 0.372 | 7.57 | 28.8 |
| | Rellenos | 0.007 | 0.18 | 0.2 | | | | |
| 100.000 | Zahorra Artific | 0.000 | 26.87 | 242.4 | Suelocemento | 1.995 | 16.60 | 16.6 |
| | AC22bin50/70S | 0.544 | 4.53 | 4.5 | AC16surfB50/70S | 0.363 | 6.57 | 35.4 |
| 120.000 | Suelocemento | 2.238 | 42.30 | 58.9 | AC22bin50/70S | 0.611 | 11.54 | 16.1 |
| | AC16surfB50/70S | 0.407 | 7.69 | 43.1 | | | | |
| 140.000 | Suelocemento | 2.499 | 47.34 | 106.2 | AC22bin50/70S | 0.682 | 12.91 | 29.0 |
| | AC16surfB50/70S | 0.455 | 8.61 | 51.7 | | | | |
| 151.600 | AC16surfB50/70S | 0.593 | 6.79 | 58.5 | | | | |

PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ED50 (HUSO 30)
 EJE : 160 : AVDA. DE L'EMPORDÀ (PI 0.4) (F4-160.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1546.4 |
| Zahorra Artific | 242.4 | 652.7 |
| Suelocemento | 106.2 | 482.9 |
| AC22bin50/70S | 29.0 | 483.0 |
| AC16surfB50/70S | 58.5 | 1259.8 |
| Rellenos | 0.2 | |

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 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 210 : GLORIETA GIV-6228 (F4-210.vol)

Istram 22.11.11.15 21/11/22 10:31:56 200315
 GRUPO : 37 : MIGJORN
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 212 : CALLE MIGJORN (F4-212.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 4.619 | 0.00 | 0.0 | AC22base50/70G | 0.860 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.532 | 0.00 | 0.0 | AC16surfB50/70S | 0.526 | 0.00 | 0.0 |
| | C31 | 0.097 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 3.782 | 82.54 | 82.5 | AC22base50/70G | 0.757 | 16.09 | 16.1 |
| | AC22bin50/70S | 0.473 | 10.02 | 10.0 | AC16surfB50/70S | 0.473 | 9.98 | 10.0 |
| | C31 | 0.001 | 0.65 | 0.7 | | | | |
| 40.000 | Zahorra Artific | 3.783 | 78.36 | 160.9 | AC22base50/70G | 0.757 | 15.54 | 31.6 |
| | AC22bin50/70S | 0.473 | 9.70 | 19.7 | AC16surfB50/70S | 0.473 | 9.68 | 19.7 |
| | C31 | 0.001 | 0.21 | 0.9 | | | | |
| 60.000 | Zahorra Artific | 4.619 | 81.15 | 242.0 | AC22base50/70G | 0.860 | 15.92 | 47.6 |
| | AC22bin50/70S | 0.532 | 9.92 | 29.6 | AC16surfB50/70S | 0.526 | 9.89 | 29.5 |
| | C31 | 0.097 | 0.49 | 1.3 | | | | |

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 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 210 : GLORIETA GIV-6228 (F4-210.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1178.6 |
| Zahorra Artific | 255.1 | 604.7 |
| AC22base50/70G | 50.0 | 594.5 |
| AC22bin50/70S | 31.1 | 592.9 |
| AC16surfB50/70S | 31.0 | 590.8 |
| C31 | 1.6 | |

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 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 211 : GIV-6228 - NORTE (F4-211.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 4.164 | 0.00 | 0.0 | AC22base50/70G | 0.711 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.432 | 0.00 | 0.0 | AC16surfB50/70S | 0.423 | 0.00 | 0.0 |
| | C31 | 0.193 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 0.000 | 31.89 | 31.9 | AC22base50/70G | 0.000 | 5.47 | 5.5 |
| | AC22bin50/70S | 0.000 | 3.32 | 3.3 | AC16surfB50/70S | 0.000 | 3.25 | 3.3 |
| | C31 | 0.000 | 1.48 | 1.5 | | | | |

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 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 211 : GIV-6228 - NORTE (F4-211.vol)

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 81.5 |
| Zahorra Artific | 31.9 | 74.0 |
| AC22base50/70G | 5.5 | 64.5 |
| AC22bin50/70S | 3.3 | 62.9 |
| AC16surfB50/70S | 3.3 | 61.6 |
| C31 | 1.5 | |

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 9.000 | Suelocemento | 2.748 | 0.00 | 0.0 | AC22bin50/70S | 0.736 | 0.00 | 0.0 |
| | AC16surfB50/70S | 0.482 | 0.00 | 0.0 | Rellenos | 0.457 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 2.783 | 30.60 | 30.6 | AC22bin50/70S | 0.737 | 8.11 | 8.1 |
| | AC16surfB50/70S | 0.482 | 5.30 | 5.3 | Rellenos | 0.233 | 2.56 | 2.6 |
| 40.000 | Suelocemento | 2.782 | 55.64 | 86.2 | AC22bin50/70S | 0.737 | 14.75 | 22.9 |
| | AC16surfB50/70S | 0.482 | 9.64 | 14.9 | Rellenos | 0.232 | 4.63 | 7.2 |
| 60.000 | Suelocemento | 2.783 | 55.65 | 141.9 | AC22bin50/70S | 0.737 | 14.75 | 37.6 |
| | AC16surfB50/70S | 0.482 | 9.64 | 24.6 | Rellenos | 0.233 | 4.65 | 11.8 |
| 80.000 | Suelocemento | 2.783 | 55.65 | 197.5 | AC22bin50/70S | 0.737 | 14.75 | 52.3 |
| | AC16surfB50/70S | 0.482 | 9.64 | 34.2 | Rellenos | 0.235 | 4.69 | 16.5 |
| 100.000 | Suelocemento | 2.783 | 55.66 | 253.2 | AC22bin50/70S | 0.737 | 14.75 | 67.1 |
| | AC16surfB50/70S | 0.482 | 9.64 | 43.8 | Rellenos | 0.235 | 4.70 | 21.2 |
| 120.000 | Suelocemento | 2.783 | 55.66 | 308.9 | AC22bin50/70S | 0.737 | 14.75 | 81.8 |
| | AC16surfB50/70S | 0.482 | 9.64 | 53.5 | Rellenos | 0.234 | 4.66 | 25.9 |
| 140.000 | Suelocemento | 2.782 | 55.65 | 364.5 | AC22bin50/70S | 0.737 | 14.75 | 96.6 |
| | AC16surfB50/70S | 0.482 | 9.64 | 63.1 | Rellenos | 0.232 | 4.66 | 30.5 |
| 160.000 | Suelocemento | 2.782 | 55.64 | 420.1 | AC22bin50/70S | 0.737 | 14.75 | 111.3 |
| | AC16surfB50/70S | 0.482 | 9.64 | 72.8 | Rellenos | 0.231 | 4.63 | 35.2 |
| 180.000 | Suelocemento | 2.785 | 55.67 | 475.8 | AC22bin50/70S | 0.737 | 14.75 | 126.1 |
| | AC16surfB50/70S | 0.482 | 9.64 | 82.4 | Rellenos | 0.239 | 4.70 | 39.9 |
| 200.000 | Suelocemento | 2.786 | 55.72 | 531.5 | AC22bin50/70S | 0.737 | 14.75 | 140.8 |
| | AC16surfB50/70S | 0.482 | 9.64 | 92.0 | Rellenos | 0.240 | 4.83 | 44.7 |
| 220.000 | Suelocemento | 2.786 | 55.72 | 587.3 | AC22bin50/70S | 0.737 | 14.75 | 155.6 |
| | AC16surfB50/70S | 0.482 | 9.64 | 101.7 | Rellenos | 0.220 | 4.55 | 49.2 |
| 240.000 | Suelocemento | 2.786 | 55.72 | 643.0 | AC22bin50/70S | 0.737 | 14.75 | 170.3 |
| | AC16surfB50/70S | 0.482 | 9.64 | 111.3 | Rellenos | 0.203 | 4.25 | 53.5 |
| 260.000 | Suelocemento | 2.786 | 55.72 | 698.7 | AC22bin50/70S | 0.737 | 14.75 | 185.1 |
| | AC16surfB50/70S | 0.482 | 9.64 | 120.9 | Rellenos | 0.230 | 4.31 | 57.8 |
| 280.000 | Suelocemento | 2.786 | 55.72 | 754.4 | AC22bin50/70S | 0.737 | 14.75 | 199.8 |
| | AC16surfB50/70S | 0.482 | 9.64 | 130.6 | Rellenos | 0.207 | 4.44 | 62.2 |
| 300.000 | Suelocemento | 2.786 | 55.72 | 810.1 | AC22bin50/70S | 0.737 | 14.75 | 214.6 |
| | AC16surfB50/70S | 0.482 | 9.64 | 140.2 | Rellenos | 0.204 | 4.17 | 66.4 |
| 320.000 | Suelocemento | 2.786 | 55.74 | 865.9 | AC22bin50/70S | 0.737 | 14.75 | 229.3 |
| | AC16surfB50/70S | 0.482 | 9.64 | 149.8 | Rellenos | 0.224 | 3.70 | 70.1 |
| 340.000 | Suelocemento | 0.000 | 36.54 | 902.4 | AC22bin50/70S | 0.000 | 9.63 | 238.9 |
| | AC16surfB50/70S | 0.000 | 6.28 | 156.1 | Rellenos | 0.000 | 3.56 | 73.7 |

| PK | EJE AC | MATERIAL | VOL. PARCIAL | MATERIAL | VOL. PARCIAL |
|---------|--------|-----------------|--------------|-----------------|--------------|
| 349.000 | 210 DA | Suelocemento | 10.54 | AC22bin50/70S | 20.31 |
| | | AC16surfB50/70S | 3.30 | Rellenos | 4.68 |
| 349.000 | 210 IA | Zahorra Artific | 50.89 | AC22base50/70G | 4.16 |
| | | AC22bin50/70S | 0.15 | AC16surfB50/70S | 0.66 |
| | | Rellenos | 0.73 | | |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 4671.9 |
| Zahorra Artific | 50.9 | 127.2 |
| Suelocemento | 913.0 | 4140.7 |
| AC22base50/70G | 4.2 | 74.5 |
| AC22bin50/70S | 259.4 | 4045.7 |
| AC16surfB50/70S | 160.1 | 3985.3 |
| Rellenos | 79.1 | |

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 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 226 : Camino de enlace E2 (F4-226.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|---------------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific C31 | 1.233 | 0.00 | 0.0 | AC16surfB50/70S | 0.160 | 0.00 | 0.0 |
| 20.000 | Zahorra Artific C31 | 0.608 | 0.00 | 0.0 | AC16surfB50/70S | 0.160 | 3.20 | 3.2 |
| 40.000 | Zahorra Artific C31 | 1.291 | 24.69 | 24.7 | AC16surfB50/70S | 0.160 | 3.20 | 6.4 |
| 60.000 | Zahorra Artific C31 | 0.608 | 10.95 | 10.9 | AC16surfB50/70S | 0.160 | 3.20 | 9.6 |
| 80.000 | Zahorra Artific C31 | 1.275 | 24.38 | 49.1 | AC16surfB50/70S | 0.160 | 3.20 | 12.8 |
| 100.000 | Zahorra Artific C31 | 0.608 | 4.88 | 15.8 | AC16surfB50/70S | 0.160 | 3.20 | 16.0 |

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 438.1 |
| Zahorra Artific | 128.4 | 330.2 |
| AC16surfB50/70S | 16.6 | 311.2 |
| C31 | 34.4 | |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 26 : FASE IV - EXTREMOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 228 : INICIO CALZ. IZQ (F4-228.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 4.552 | 0.00 | 0.0 | AC32bas35/50G 1 | 1.165 | 0.00 | 0.0 |
| | AC32bas35/50G 2 | 1.001 | 0.00 | 0.0 | AC22bin35/50S | 0.850 | 0.00 | 0.0 |
| | PA11 45/80-65C | 0.562 | 0.00 | 0.0 | ZA (Arc) | 0.814 | 0.00 | 0.0 |
| | SC (Arc) | 0.671 | 0.00 | 0.0 | AC22bin35/50(a) | 0.195 | 0.00 | 0.0 |
| | PA1145/80-65(a) | 0.126 | 0.00 | 0.0 | C31 | 1.293 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 4.395 | 89.47 | 89.5 | AC32bas35/50G 1 | 1.123 | 22.88 | 22.9 |
| | AC32bas35/50G 2 | 0.964 | 19.66 | 19.7 | AC22bin35/50S | 0.818 | 16.69 | 16.7 |
| | PA11 45/80-65C | 0.542 | 11.04 | 11.0 | ZA (Arc) | 0.980 | 19.34 | 19.3 |
| | SC (Arc) | 0.804 | 15.87 | 15.9 | AC22bin35/50(a) | 0.235 | 4.64 | 4.6 |
| | PA1145/80-65(a) | 0.153 | 3.01 | 3.0 | C31 | 1.358 | 27.11 | 27.1 |
| 40.000 | Suelocemento | 4.237 | 86.32 | 175.8 | AC32bas35/50G 1 | 1.082 | 22.04 | 44.9 |
| | AC32bas35/50G 2 | 0.928 | 18.92 | 38.6 | AC22bin35/50S | 0.787 | 16.06 | 32.7 |
| | PA11 45/80-65C | 0.521 | 10.62 | 21.7 | ZA (Arc) | 0.997 | 19.79 | 39.1 |
| | SC (Arc) | 0.817 | 16.22 | 32.1 | AC22bin35/50(a) | 0.239 | 4.75 | 9.4 |
| | PA1145/80-65(a) | 0.155 | 3.08 | 6.1 | C31 | 1.360 | 27.19 | 54.3 |
| 60.000 | Suelocemento | 3.927 | 82.06 | 257.9 | AC32bas35/50G 1 | 0.998 | 20.91 | 65.8 |
| | AC32bas35/50G 2 | 0.855 | 17.93 | 56.5 | AC22bin35/50S | 0.725 | 15.20 | 47.9 |
| | PA11 45/80-65C | 0.479 | 10.05 | 31.7 | ZA (Arc) | 1.028 | 20.24 | 59.4 |
| | SC (Arc) | 0.842 | 16.58 | 48.7 | AC22bin35/50(a) | 0.247 | 4.86 | 14.3 |
| | PA1145/80-65(a) | 0.160 | 3.16 | 9.3 | C31 | 1.338 | 27.18 | 81.5 |
| 80.000 | Suelocemento | 3.547 | 74.83 | 332.7 | AC32bas35/50G 1 | 0.897 | 18.98 | 84.8 |
| | AC32bas35/50G 2 | 0.767 | 16.24 | 72.7 | AC22bin35/50S | 0.649 | 13.76 | 61.7 |
| | PA11 45/80-65C | 0.428 | 9.09 | 40.8 | ZA (Arc) | 1.079 | 20.98 | 80.3 |
| | SC (Arc) | 0.883 | 17.17 | 65.8 | AC22bin35/50(a) | 0.259 | 5.04 | 19.3 |
| | PA1145/80-65(a) | 0.168 | 3.27 | 12.5 | C31 | 1.362 | 27.07 | 108.6 |
| 100.000 | Suelocemento | 2.977 | 65.24 | 397.9 | AC32bas35/50G 1 | 0.745 | 16.42 | 101.2 |
| | AC32bas35/50G 2 | 0.634 | 14.00 | 86.7 | AC22bin35/50S | 0.535 | 11.84 | 73.5 |
| | PA11 45/80-65C | 0.353 | 7.81 | 48.6 | ZA (Arc) | 1.100 | 21.93 | 102.3 |
| | SC (Arc) | 0.899 | 17.93 | 83.8 | AC22bin35/50(a) | 0.264 | 5.26 | 24.6 |
| | PA1145/80-65(a) | 0.172 | 3.43 | 16.0 | C31 | 1.363 | 27.26 | 135.8 |
| 120.000 | Suelocemento | 2.552 | 54.38 | 452.3 | AC32bas35/50G 1 | 0.632 | 13.53 | 114.8 |
| | AC32bas35/50G 2 | 0.534 | 11.47 | 98.2 | AC22bin35/50S | 0.450 | 9.67 | 83.2 |
| | PA11 45/80-65C | 0.296 | 6.36 | 55.0 | ZA (Arc) | 1.337 | 24.32 | 126.6 |
| | SC (Arc) | 1.089 | 19.84 | 103.6 | AC22bin35/50(a) | 0.321 | 5.84 | 30.4 |
| | PA1145/80-65(a) | 0.210 | 3.81 | 19.8 | C31 | 1.365 | 27.28 | 163.1 |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 26 : FASE IV - EXTREMOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 228 : INICIO CALZ. IZQ (F4-228.vol)

***** RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2270.6 |
| Suelocemento | 452.3 | 1400.2 |
| AC32bas35/50G 1 | 114.8 | 1356.9 |
| AC32bas35/50G 2 | 98.2 | 1328.1 |
| AC22bin35/50S | 83.2 | 1313.7 |
| PA11 45/80-65C | 55.0 | 1304.1 |
| ZA (Arc) | 126.6 | 494.4 |
| SC (Arc) | 103.6 | 506.1 |
| AC22bin35/50(a) | 30.4 | 482.2 |
| PA1145/80-65(a) | 19.8 | 470.3 |
| C31 | 163.1 | |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 26 : FASE IV - EXTREMOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 229 : FINAL CALZ. IZQ (F4-229.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.552 | 0.00 | 0.0 | AC32bas35/50G 1 | 0.632 | 0.00 | 0.0 |
| | AC32bas35/50G 2 | 0.534 | 0.00 | 0.0 | AC22bin35/50S | 0.450 | 0.00 | 0.0 |
| | PA11 45/80-65C | 0.296 | 0.00 | 0.0 | ZA (Arc) | 1.341 | 0.00 | 0.0 |
| | SC (Arc) | 1.090 | 0.00 | 0.0 | AC22bin35/50(a) | 0.321 | 0.00 | 0.0 |
| | PA1145/80-65(a) | 0.210 | 0.00 | 0.0 | C31 | 1.523 | 0.00 | 0.0 |
| 20.000 | Suelocemento | 2.552 | 51.03 | 51.0 | AC32bas35/50G 1 | 0.632 | 12.63 | 12.6 |
| | AC32bas35/50G 2 | 0.534 | 10.69 | 10.7 | AC22bin35/50S | 0.450 | 9.00 | 9.0 |
| | PA11 45/80-65C | 0.296 | 5.92 | 5.9 | ZA (Arc) | 0.817 | 21.58 | 21.6 |
| | SC (Arc) | 0.670 | 17.61 | 17.6 | AC22bin35/50(a) | 0.195 | 5.17 | 5.2 |
| | PA1145/80-65(a) | 0.126 | 3.36 | 3.4 | C31 | 1.514 | 30.45 | 30.5 |
| 40.000 | Suelocemento | 2.552 | 51.03 | 102.1 | AC32bas35/50G 1 | 0.632 | 12.63 | 25.3 |
| | AC32bas35/50G 2 | 0.534 | 10.69 | 21.4 | AC22bin35/50S | 0.450 | 9.00 | 18.0 |
| | PA11 45/80-65C | 0.296 | 5.92 | 11.8 | ZA (Arc) | 0.817 | 16.33 | 37.9 |
| | SC (Arc) | 0.671 | 13.41 | 31.0 | AC22bin35/50(a) | 0.195 | 3.91 | 9.1 |
| | PA1145/80-65(a) | 0.126 | 2.52 | 5.9 | C31 | 1.483 | 29.74 | 60.2 |
| 60.000 | Suelocemento | 2.552 | 51.03 | 153.1 | AC32bas35/50G 1 | 0.632 | 12.63 | 37.9 |
| | AC32bas35/50G 2 | 0.534 | 10.69 | 32.1 | AC22bin35/50S | 0.450 | 9.00 | 27.0 |
| | PA11 45/80-65C | 0.296 | 5.92 | 17.7 | ZA (Arc) | 0.817 | 16.33 | 54.2 |
| | SC (Arc) | 0.670 | 13.41 | 44.4 | AC22bin35/50(a) | 0.196 | 3.91 | 13.0 |
| | PA1145/80-65(a) | 0.126 | 2.52 | 8.4 | C31 | 1.482 | 29.63 | 89.8 |
| 80.000 | Suelocemento | 2.552 | 51.03 | 204.1 | AC32bas35/50G 1 | 0.632 | 12.63 | 50.5 |
| | AC32bas35/50G 2 | 0.534 | 10.69 | 42.7 | AC22bin35/50S | 0.450 | 9.00 | 36.0 |
| | PA11 45/80-65C | 0.296 | 5.92 | 23.7 | ZA (Arc) | 0.817 | 16.34 | 70.6 |
| | SC (Arc) | 0.671 | 13.41 | 57.8 | AC22bin35/50(a) | 0.195 | 3.91 | 16.9 |
| | PA1145/80-65(a) | 0.126 | 2.52 | 10.9 | C31 | 1.498 | 29.71 | 119.5 |
| 100.000 | Suelocemento | 2.552 | 51.03 | 255.2 | AC32bas35/50G 1 | 0.632 | 12.63 | 63.2 |
| | AC32bas35/50G 2 | 0.534 | 10.69 | 53.4 | AC22bin35/50S | 0.450 | 9.00 | 45.0 |
| | PA11 45/80-65C | 0.296 | 5.91 | 29.6 | ZA (Arc) | 0.817 | 16.34 | 86.9 |
| | SC (Arc) | 0.671 | 13.41 | 71.2 | AC22bin35/50(a) | 0.195 | 3.91 | 20.8 |
| | PA1145/80-65(a) | 0.126 | 2.52 | 13.4 | C31 | 1.526 | 30.27 | 149.8 |
| 120.000 | Suelocemento | 2.552 | 51.03 | 306.2 | AC32bas35/50G 1 | 0.632 | 12.63 | 75.8 |
| | AC32bas35/50G 2 | 0.534 | 10.69 | 64.1 | AC22bin35/50S | 0.450 | 9.00 | 54.0 |
| | PA11 45/80-65C | 0.296 | 5.91 | 35.5 | ZA (Arc) | 0.433 | 16.15 | 103.1 |
| | SC (Arc) | 0.355 | 13.25 | 84.5 | AC22bin35/50(a) | 0.101 | 3.86 | 24.7 |
| | PA1145/80-65(a) | 0.063 | 2.49 | 15.9 | C31 | 1.356 | 30.44 | 180.2 |
| 140.000 | Suelocemento | 2.552 | 51.03 | 357.2 | AC32bas35/50G 1 | 0.632 | 12.63 | 88.4 |
| | AC32bas35/50G 2 | 0.535 | 10.69 | 74.8 | AC22bin35/50S | 0.450 | 9.00 | 63.0 |
| | PA11 45/80-65C | 0.296 | 5.91 | 41.4 | ZA (Arc) | 0.817 | 10.40 | 113.5 |
| | SC (Arc) | 0.671 | 8.52 | 93.0 | AC22bin35/50(a) | 0.195 | 2.44 | 27.1 |
| | PA1145/80-65(a) | 0.126 | 1.55 | 17.5 | C31 | 1.528 | 27.92 | 208.2 |
| 160.000 | Suelocemento | 2.552 | 51.03 | 408.3 | AC32bas35/50G 1 | 0.631 | 12.63 | 101.1 |
| | AC32bas35/50G 2 | 0.534 | 10.69 | 85.5 | AC22bin35/50S | 0.450 | 9.00 | 72.0 |
| | PA11 45/80-65C | 0.296 | 5.91 | 47.3 | ZA (Arc) | 0.817 | 16.35 | 129.8 |
| | SC (Arc) | 0.670 | 13.41 | 106.4 | AC22bin35/50(a) | 0.195 | 3.91 | 31.0 |
| | PA1145/80-65(a) | 0.126 | 2.52 | 20.0 | C31 | 1.526 | 30.46 | 238.6 |

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 PROYECTO :
 GRUPO : 26 : FASE IV - EXTREMOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 229 : FINAL CALZ. IZQ (F4-229.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 2287.3 |
| Suelocemento | 410.6 | 1255.2 |
| AC32bas35/50G 1 | 101.6 | 1197.3 |
| AC32bas35/50G 2 | 86.0 | 1158.7 |
| AC22bin35/50S | 72.4 | 1139.4 |
| PA11 45/80-65C | 47.6 | 1126.5 |
| ZA (Arc) | 130.6 | 511.1 |
| SC (Arc) | 107.0 | 526.9 |
| AC22bin35/50(a) | 31.2 | 494.8 |
| PA1145/80-65(a) | 20.1 | 478.8 |
| C31 | 240.0 | |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 283 : GIV-6228 - SUR (F4-283.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 4.197 | 0.00 | 0.0 | AC22base50/70G | 0.711 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.432 | 0.00 | 0.0 | AC16surfb50/70S | 0.423 | 0.00 | 0.0 |
| | C31 | 0.193 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 0.000 | 26.70 | 26.7 | AC22base50/70G | 0.000 | 4.52 | 4.5 |
| | AC22bin50/70S | 0.000 | 2.75 | 2.7 | AC16surfb50/70S | 0.000 | 2.69 | 2.7 |
| | C31 | 0.000 | 1.23 | 1.2 | | | | |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 37 : MIGJORN
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 283 : GIV-6228 - SUR (F4-283.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 68.1 |
| Zahorra Artific | 26.7 | 61.2 |
| AC22base50/70G | 4.5 | 53.3 |
| AC22bin50/70S | 2.7 | 52.0 |
| AC16surfb50/70S | 2.7 | 50.9 |
| C31 | 1.2 | |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol)

 * * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
 * * * CAPAS DE FIRME * * *

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|---------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 2.021 | 0.00 | 0.0 | AC16surfb50/70S | 0.265 | 0.00 | 0.0 |
| | C31 | 0.028 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 2.242 | 43.31 | 43.3 | AC16surfb50/70S | 0.268 | 5.34 | 5.3 |
| | C31 | 0.186 | 4.72 | 4.7 | | | | |
| 40.000 | Zahorra Artific | 2.252 | 45.04 | 88.3 | AC16surfb50/70S | 0.268 | 5.35 | 10.7 |
| | C31 | 0.284 | 5.34 | 10.1 | | | | |
| 60.000 | Zahorra Artific | 2.252 | 45.05 | 133.4 | AC16surfb50/70S | 0.268 | 5.35 | 16.0 |
| | C31 | 0.254 | 5.34 | 15.4 | | | | |
| 80.000 | Zahorra Artific | 2.075 | 44.96 | 178.4 | AC16surfb50/70S | 0.265 | 5.35 | 21.4 |
| | C31 | 0.001 | 4.86 | 20.3 | | | | |
| 100.000 | Zahorra Artific | 2.081 | 41.47 | 219.8 | AC16surfb50/70S | 0.265 | 5.30 | 26.7 |
| | C31 | 0.001 | 0.03 | 20.3 | | | | |
| 120.000 | Zahorra Artific | 2.086 | 41.69 | 261.5 | AC16surfb50/70S | 0.265 | 5.30 | 32.0 |
| | C31 | 0.001 | 0.03 | 20.3 | | | | |
| 140.000 | Zahorra Artific | 2.069 | 41.64 | 303.2 | AC16surfb50/70S | 0.265 | 5.30 | 37.3 |
| | C31 | 0.001 | 0.03 | 20.3 | | | | |
| 160.000 | Zahorra Artific | 2.005 | 40.36 | 343.5 | AC16surfb50/70S | 0.265 | 5.30 | 42.6 |
| | C31 | 0.001 | 0.03 | 20.4 | | | | |
| 180.000 | Zahorra Artific | 5.878 | 50.52 | 394.0 | AC16surfb50/70S | 0.803 | 6.66 | 49.3 |
| | C31 | 0.049 | 0.38 | 20.7 | | | | |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 PROYECTO :
 GRUPO : 12 : CAMINOS PAVIMENTADOS
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 314 : CONNEXION CON AVDA. DE L'EMPORDÀ 2 (F4-314.vol)

 * * * RESUMEN DE VOLUMENES TOTALES * * *

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 1220.6 |
| Zahorra Artific | 406.6 | 997.6 |
| AC16surfb50/70S | 51.0 | 958.7 |
| C31 | 20.8 | |

Istram 22.11.11.15 21/11/22 10:31:56 200315
 GRUPO : 37 : MIGJORN
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 317 : GIV-6228 - CARRIL BICI (F4-317.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|----------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 1.601 | 0.00 | 0.0 | SOL EST. | 0.905 | 0.00 | 0.0 |
| 20.000 | Zahorra Artific | 1.601 | 32.02 | 32.0 | SOL EST. | 0.905 | 18.10 | 18.1 |
| 40.000 | Zahorra Artific | 1.601 | 32.02 | 64.0 | SOL EST. | 0.905 | 18.10 | 36.2 |
| 60.000 | Zahorra Artific | 1.601 | 32.02 | 96.1 | SOL EST. | 0.905 | 18.10 | 54.3 |
| 80.000 | Zahorra Artific | 1.601 | 32.02 | 128.1 | SOL EST. | 0.905 | 18.10 | 72.4 |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 470.5 |
| Zahorra Artific | 135.8 | 391.8 |
| SOL EST. | 76.8 | 339.3 |

Istram 22.11.11.15 21/11/22 10:31:57 200315
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 330 : ACUERDO 211-210(1001).DA (crz\211DA1001.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 2.113 | 0.00 | 0.0 | AC22base50/70G | 0.356 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.216 | 0.00 | 0.0 | AC16surfB50/70S | 0.211 | 0.00 | 0.0 |
| | C31 | 0.096 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 2.268 | 54.53 | 54.5 | AC22base50/70G | 0.390 | 8.74 | 8.7 |
| | AC22bin50/70S | 0.238 | 5.28 | 5.3 | AC16surfB50/70S | 0.233 | 5.14 | 5.1 |
| | C31 | 0.096 | 4.14 | 4.1 | | | | |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 164.4 |
| Zahorra Artific | 64.6 | 149.0 |
| AC22base50/70G | 10.3 | 120.5 |
| AC22bin50/70S | 6.2 | 116.7 |
| AC16surfB50/70S | 6.0 | 113.3 |
| C31 | 4.9 | |

Istram 22.11.11.15 21/11/22 10:31:57 200315
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 330 : ACUERDO 211-210(1001).IA (crz\211IA1001.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.837 | 0.00 | 0.0 | AC22base50/70G | 0.104 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.059 | 0.00 | 0.0 | AC16surfB50/70S | 0.054 | 0.00 | 0.0 |
| | C31 | 0.096 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 2.288 | 43.89 | 43.9 | AC22base50/70G | 0.401 | 7.44 | 7.4 |
| | AC22bin50/70S | 0.245 | 4.51 | 4.5 | AC16surfB50/70S | 0.240 | 4.40 | 4.4 |
| | C31 | 0.096 | 2.18 | 2.2 | | | | |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 142.2 |
| Zahorra Artific | 55.9 | 129.1 |
| AC22base50/70G | 9.5 | 112.1 |
| AC22bin50/70S | 5.8 | 109.4 |
| AC16surfB50/70S | 5.7 | 106.9 |
| C31 | 2.7 | |

Istram 22.11.11.15 21/11/22 10:31:58 200315
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 330 : ACUERDO 212-210(1001).DA (crz\212DA1001.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|---------------|-------------|--------------|--------------|
| 0.000 | Suelocemento | 2.071 | 0.00 | 0.0 | AC22bin50/70S | 0.490 | 0.00 | 0.0 |
| | AC16surfB50/70S | 0.286 | 0.00 | 0.0 | C31 | 0.292 | 0.00 | 0.0 |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 96.5 |
| Suelocemento | 19.2 | 74.8 |
| AC22bin50/70S | 22.5 | 72.2 |
| AC16surfB50/70S | 4.2 | 70.0 |
| C31 | 6.8 | |

Istram 22.11.11.15 21/11/22 10:31:58 200315
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 330 : ACUERDO 212-210(1001).IA (crz\212IA1001.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.837 | 0.00 | 0.0 | AC22base50/70G | 0.104 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.059 | 0.00 | 0.0 | AC16surfB50/70S | 0.054 | 0.00 | 0.0 |
| | C31 | 0.096 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 2.402 | 45.42 | 45.4 | AC22base50/70G | 0.422 | 7.71 | 7.7 |
| | AC22bin50/70S | 0.129 | 3.26 | 3.3 | AC16surfB50/70S | 0.295 | 5.02 | 5.0 |
| | C31 | 0.086 | 2.24 | 2.2 | | | | |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 138.7 |
| Zahorra Artific | 54.6 | 126.5 |
| AC22base50/70G | 9.3 | 109.7 |
| AC22bin50/70S | 3.7 | 107.2 |
| AC16surfB50/70S | 6.2 | 104.3 |
| C31 | 2.6 | |

Istram 22.11.11.15 21/11/22 10:31:59 200315
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 330 : ACUERDO 283-210(1001).DA (crz\283DA1001.vol)

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
 *** CAPAS DE FIRME ***

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 2.099 | 0.00 | 0.0 | AC22base50/70G | 0.356 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.216 | 0.00 | 0.0 | AC16surfB50/70S | 0.211 | 0.00 | 0.0 |
| | C31 | 0.096 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 1.030 | 46.53 | 46.5 | AC22base50/70G | 0.142 | 7.73 | 7.7 |
| | AC22bin50/70S | 0.083 | 4.68 | 4.7 | AC16surfB50/70S | 0.078 | 4.56 | 4.6 |
| | C31 | 0.096 | 2.71 | 2.7 | | | | |

*** RESUMEN DE VOLUMENES TOTALES ***

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 125.9 |
| Zahorra Artific | 49.4 | 113.5 |
| AC22base50/70G | 8.1 | 95.3 |
| AC22bin50/70S | 4.9 | 92.4 |
| AC16surfB50/70S | 4.8 | 89.7 |
| C31 | 3.0 | |

Istram 22.11.11.15 21/11/22 10:31:59 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 330 : ACUERDO 283-210(1001).IA (crz\283IA1001.vol)

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
 ***** CAPAS DE FIRME *****

| PERFIL | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. | MATERIAL | AREA PERFIL | VOL. PARCIAL | VOL. ACUMUL. |
|--------|-----------------|-------------|--------------|--------------|-----------------|-------------|--------------|--------------|
| 0.000 | Zahorra Artific | 0.837 | 0.00 | 0.0 | AC22base50/70G | 0.104 | 0.00 | 0.0 |
| | AC22bin50/70S | 0.059 | 0.00 | 0.0 | AC16surfB50/70S | 0.054 | 0.00 | 0.0 |
| | C31 | 0.096 | 0.00 | 0.0 | | | | |
| 20.000 | Zahorra Artific | 2.790 | 48.75 | 48.7 | AC22base50/70G | 0.494 | 7.90 | 7.9 |
| | AC22bin50/70S | 0.303 | 4.77 | 4.8 | AC16surfB50/70S | 0.297 | 4.64 | 4.6 |
| | C31 | 0.097 | 3.37 | 3.4 | | | | |

Istram 22.11.11.15 21/11/22 10:31:59 200315
 PROYECTO :
 GRUPO : 1 : TRONCO
 C.R.S. : ETRS89 (HUSO 31)
 EJE : 330 : ACUERDO 283-210(1001).IA (crz\283IA1001.vol)

***** RESUMEN DE VOLUMENES TOTALES *****

| MATERIAL | VOLUMEN | AREAS DE RIEGOS |
|-----------------|---------|-----------------|
| SUBRASANTE | | 191.3 |
| Zahorra Artific | 75.6 | 174.3 |
| AC22base50/70G | 12.5 | 147.5 |
| AC22bin50/70S | 7.6 | 143.6 |
| AC16surfB50/70S | 7.4 | 140.1 |
| C31 | 4.5 | |

| DESVIÓ C-260 | | | | |
|------------------|-------------|----------|------------|------------|
| MATERIAL | VOLUM | DENSITAT | TOTAL (t) | SUPERFICIE |
| PA11 45/80-60C | 29,60 m3 | 1,95 | 57,72 t | 740,00 m2 |
| PA11 50/70 | 21,40 m3 | 1,95 | 41,73 t | 535,00 m2 |
| AC16surfB50/70S | 369,30 m3 | 2,37 | 875,24 t | |
| AC22bin50/70S | 649,60 m3 | 2,35 | 1.526,56 t | |
| AC32 base 50/70G | 35,60 m3 | | | |
| ZAHORRA | 2.098,70 m3 | | | |
| SUELO CEMENTO | 198,80 m3 | | | |

| RIEGOS | SUPERFICIE |
|---------------------------|--------------|
| C60BP3 ADH | 1.275,00 m2 |
| C60B3 ADH | 861,80 m2 |
| C50BF4 IMP | 9.704,50 m2 |
| C60B3 CUR (SUELO CEMENTO) | 861,80 m2 |
| C60B3 CUR (S-EST3) | 19.852,00 m2 |

| DESVIÓ N-260 | | | |
|-----------------|-----------|----------|-----------|
| MATERIAL | VOLUM | DENSITAT | TOTAL (t) |
| AC16surfB50/70S | 115,50 m3 | 2,37 | 273,74 t |
| AC22bin50/70S | 223,90 m3 | 2,35 | 526,17 t |
| ZAHORRA | 517,80 m3 | | |

| RIEGOS | SUPERFICIE |
|---------------------------|-------------|
| C60B3 ADH | 2.304,30 m2 |
| C50BF4 IMP | 2.431,70 m2 |
| C60B3 CUR (SUELO CEMENTO) | 0,00 m2 |
| C60B3 CUR (S-EST3) | 4.040,00 m2 |

3. DESBROCE

Istram 22.11.11.15 21/11/22 11:13:44 200315
 EJE: 1: TRONCO N-II

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | | | SUPERFICIE REAL | | | | | | | | |
|----------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|--------|----------|-----------|----------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | | | | | |
| | PLANTA | REAL | PLANTA | REAL | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | | | | | |
| 423.352 | 0.000 | 0.000 | 29.458 | 30.688 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | | | | |
| 440.000 | 2.269 | 2.270 | 31.416 | 32.645 | 11.728 | 495.701 | 11.846 | 513.289 | 2000.000 | 1.726 | 1.727 | 37.826 | 39.433 | 6879.183 | 40549.482 | 6977.721 | 41688.318 |
| 460.000 | 0.000 | 0.000 | 17.757 | 17.894 | 45.690 | 1086.107 | 45.819 | 1125.291 | 2020.000 | 2.159 | 2.159 | 40.858 | 42.561 | 6928.182 | 41891.591 | 7026.724 | 43082.151 |
| 480.000 | 0.303 | 0.303 | 28.925 | 30.678 | 47.782 | 1380.174 | 47.924 | 1431.908 | 2040.000 | 4.317 | 4.319 | 41.442 | 43.627 | 6992.518 | 42735.498 | 7091.233 | 43966.512 |
| 500.000 | 0.306 | 0.306 | 28.616 | 29.530 | 53.865 | 1969.958 | 54.010 | 2045.797 | 2060.000 | 3.870 | 3.885 | 45.887 | 48.263 | 7064.261 | 43619.845 | 7163.097 | 44894.566 |
| 520.000 | 2.419 | 2.432 | 29.395 | 29.968 | 58.271 | 2523.078 | 58.432 | 2613.123 | 2080.000 | 0.009 | 0.009 | 9.339 | 9.355 | 7087.327 | 44197.208 | 7186.204 | 45494.649 |
| 540.000 | 2.878 | 2.881 | 27.897 | 28.385 | 115.647 | 3090.068 | 115.916 | 3189.391 | 2100.000 | 0.000 | 0.000 | 29.955 | 31.193 | 7087.483 | 44339.259 | 7186.364 | 45641.299 |
| 560.000 | 2.745 | 2.745 | 27.973 | 28.424 | 174.093 | 3646.129 | 174.376 | 3754.313 | 2120.000 | 1.727 | 1.728 | 46.480 | 48.894 | 7131.421 | 45130.118 | 7230.316 | 46477.433 |
| 580.000 | 3.564 | 3.564 | 27.201 | 27.743 | 231.364 | 4203.617 | 231.649 | 4321.425 | 2140.000 | 2.337 | 2.337 | 44.931 | 47.340 | 7175.721 | 46039.761 | 7274.618 | 47435.604 |
| 600.000 | 2.676 | 2.677 | 27.916 | 28.412 | 290.445 | 4758.876 | 290.734 | 4887.631 | 2160.000 | 1.611 | 1.611 | 44.973 | 47.371 | 7213.001 | 46940.979 | 7311.900 | 48384.931 |
| 620.000 | 3.695 | 3.695 | 26.732 | 27.108 | 362.421 | 5296.174 | 362.725 | 5432.273 | 2180.000 | 2.635 | 2.635 | 43.322 | 45.853 | 7260.109 | 47822.295 | 7359.009 | 49313.766 |
| 640.000 | 4.273 | 4.279 | 25.997 | 26.464 | 434.069 | 5832.353 | 434.389 | 5976.584 | 2200.000 | 2.544 | 2.544 | 37.796 | 40.340 | 7303.995 | 48637.533 | 7402.896 | 50179.240 |
| 660.000 | 5.568 | 5.602 | 24.731 | 25.192 | 530.156 | 6342.850 | 530.693 | 6495.495 | 2220.000 | 0.000 | 0.000 | 33.634 | 35.464 | 7346.132 | 49351.679 | 7445.033 | 50934.954 |
| 680.000 | 7.118 | 7.183 | 23.020 | 23.443 | 638.099 | 6838.770 | 639.513 | 6999.821 | 2240.000 | 2.585 | 2.585 | 30.710 | 32.119 | 7388.712 | 50003.284 | 7487.614 | 51616.117 |
| 700.000 | 7.149 | 7.248 | 23.018 | 23.406 | 776.183 | 7304.727 | 779.227 | 7473.932 | 2260.000 | 4.502 | 4.502 | 49.671 | 51.765 | 7453.895 | 50797.026 | 7552.797 | 52445.197 |
| 720.000 | 7.414 | 7.541 | 22.137 | 22.422 | 924.572 | 7752.039 | 929.853 | 7927.862 | 2280.000 | 4.535 | 4.535 | 47.146 | 49.138 | 7540.399 | 51769.152 | 7639.307 | 53457.774 |
| 740.000 | 8.052 | 8.213 | 21.190 | 21.420 | 1086.108 | 8178.521 | 1094.262 | 8359.368 | 2300.000 | 5.205 | 5.205 | 44.293 | 46.194 | 7639.295 | 52680.160 | 7738.213 | 54407.533 |
| 760.000 | 9.085 | 9.269 | 20.192 | 20.471 | 1264.519 | 8584.674 | 1276.147 | 8770.385 | 2320.000 | 4.857 | 4.857 | 43.314 | 45.073 | 7736.227 | 53556.400 | 7835.147 | 55319.075 |
| 780.000 | 9.251 | 9.478 | 19.959 | 20.208 | 1441.411 | 8992.554 | 1457.130 | 9183.448 | 2340.000 | 4.772 | 4.772 | 44.424 | 46.214 | 7829.662 | 54421.793 | 7928.582 | 56219.050 |
| 800.000 | 10.216 | 10.460 | 19.103 | 19.410 | 1628.613 | 9389.092 | 1649.011 | 9585.294 | 2360.000 | 3.135 | 3.135 | 41.400 | 43.318 | 7920.757 | 55281.443 | 8019.678 | 57115.176 |
| 820.000 | 9.415 | 9.704 | 20.511 | 20.901 | 1822.451 | 9786.880 | 1848.154 | 9989.513 | 2380.000 | 2.418 | 2.418 | 42.002 | 43.998 | 7975.595 | 56113.827 | 8074.516 | 57983.426 |
| 840.000 | 10.202 | 10.312 | 19.956 | 20.440 | 2018.672 | 10192.642 | 2049.007 | 10403.793 | 2400.000 | 3.329 | 3.329 | 39.618 | 41.817 | 8040.184 | 56929.127 | 8139.108 | 58838.489 |
| 860.000 | 10.518 | 10.629 | 19.986 | 20.584 | 2226.890 | 10591.335 | 2259.344 | 10813.058 | 2420.000 | 3.312 | 3.312 | 40.739 | 42.925 | 8104.771 | 57736.764 | 8203.696 | 59686.656 |
| 880.000 | 9.265 | 9.433 | 21.468 | 22.052 | 2425.128 | 11005.608 | 2460.227 | 11238.574 | 2440.000 | 3.871 | 3.871 | 41.433 | 43.348 | 8173.218 | 58564.864 | 8272.147 | 60553.030 |
| 900.000 | 9.593 | 9.836 | 21.583 | 22.218 | 2614.438 | 11434.865 | 2653.465 | 11679.940 | 2460.000 | 3.750 | 3.753 | 42.162 | 44.225 | 8237.029 | 59414.062 | 8335.968 | 61440.468 |
| 920.000 | 8.983 | 9.118 | 22.098 | 22.825 | 2801.462 | 11870.217 | 2843.525 | 12128.522 | 2480.000 | 0.020 | 0.020 | 22.010 | 22.253 | 8238.924 | 59686.942 | 8337.876 | 61722.262 |
| 940.000 | 9.732 | 10.000 | 21.606 | 22.375 | 2990.182 | 12306.645 | 3035.308 | 12580.011 | 2500.000 | 3.288 | 3.288 | 43.322 | 45.515 | 8280.594 | 60356.293 | 8379.555 | 62422.827 |
| 960.000 | 9.562 | 9.857 | 22.018 | 22.841 | 3194.389 | 12732.284 | 3245.129 | 13021.275 | 2520.000 | 3.915 | 3.945 | 41.846 | 44.091 | 8348.864 | 61214.470 | 8447.971 | 63325.701 |
| 980.000 | 9.738 | 9.869 | 21.914 | 22.732 | 3384.690 | 13174.551 | 3440.647 | 13479.682 | 2540.000 | 0.000 | 0.000 | 42.228 | 44.776 | 8352.951 | 62055.098 | 8452.089 | 64213.509 |
| 1000.000 | 9.493 | 9.698 | 22.872 | 23.785 | 3568.049 | 13632.829 | 3627.412 | 13954.591 | 2560.000 | 0.000 | 0.000 | 41.691 | 44.415 | 8352.951 | 62894.570 | 8452.089 | 65105.753 |
| 1020.000 | 8.753 | 8.975 | 24.100 | 25.089 | 3743.415 | 14109.846 | 3806.917 | 14450.545 | 2580.000 | 0.000 | 0.000 | 40.624 | 43.216 | 8352.951 | 63718.076 | 8452.089 | 65981.946 |
| 1040.000 | 7.013 | 7.253 | 26.448 | 27.533 | 3899.213 | 14615.456 | 3965.188 | 14976.258 | 2600.000 | 0.000 | 0.000 | 39.682 | 42.194 | 8352.951 | 64511.010 | 8452.089 | 66826.318 |
| 1060.000 | 5.036 | 5.064 | 29.494 | 30.556 | 4024.109 | 15167.718 | 4091.206 | 15549.186 | 2620.000 | 0.000 | 0.000 | 38.791 | 41.023 | 8352.951 | 65303.255 | 8452.089 | 67666.149 |
| 1080.000 | 3.220 | 3.220 | 32.789 | 33.960 | 4116.484 | 15780.235 | 4183.847 | 16183.975 | 2640.000 | 0.000 | 0.000 | 37.122 | 39.316 | 8352.951 | 66056.944 | 8452.089 | 68464.049 |
| 1100.000 | 2.491 | 2.491 | 35.293 | 36.719 | 4169.773 | 16465.831 | 4237.137 | 16895.177 | 2660.000 | 0.000 | 0.000 | 36.370 | 38.233 | 8352.951 | 66790.786 | 8452.089 | 69238.263 |
| 1120.000 | 2.726 | 2.726 | 37.195 | 38.989 | 4224.294 | 17186.220 | 4291.663 | 17646.546 | 2680.000 | 0.000 | 0.000 | 35.667 | 37.477 | 8352.951 | 67511.157 | 8452.089 | 69995.168 |
| 1140.000 | 0.040 | 0.043 | 20.112 | 21.343 | 4252.962 | 17860.115 | 4320.390 | 18358.181 | 2700.000 | 0.000 | 0.000 | 35.054 | 36.870 | 8352.951 | 68219.114 | 8452.089 | 70740.033 |
| 1160.000 | 0.020 | 0.020 | 0.068 | 0.069 | 4253.159 | 17962.803 | 4320.596 | 18468.017 | 2720.000 | 0.000 | 0.000 | 34.665 | 36.255 | 8352.951 | 68915.344 | 8452.089 | 71470.555 |
| 1180.000 | 0.000 | 0.000 | 42.007 | 44.256 | 4253.613 | 18463.729 | 4321.084 | 18993.785 | 2740.000 | 0.000 | 0.000 | 33.978 | 35.287 | 8352.951 | 69600.045 | 8452.089 | 72184.134 |
| 1200.000 | 0.000 | 0.000 | 42.628 | 44.963 | 4253.613 | 19311.145 | 4321.084 | 19886.725 | 2760.000 | 0.000 | 0.000 | 33.850 | 35.163 | 8352.951 | 70278.418 | 8452.089 | 72888.606 |
| 1220.000 | 0.000 | 0.000 | 42.102 | 44.450 | 4253.613 | 20154.937 | 4321.084 | 20776.943 | 2780.000 | 0.000 | 0.000 | 33.565 | 34.797 | 8352.951 | 70952.678 | 8452.089 | 73589.316 |
| 1240.000 | 0.000 | 0.000 | 41.446 | 43.741 | 4253.613 | 20990.793 | 4321.084 | 21659.024 | 2800.000 | 0.000 | 0.000 | 33.587 | 34.566 | 8352.951 | 71621.062 | 8452.089 | 74276.500 |
| 1260.000 | 0.000 | 0.000 | 40.863 | 43.094 | 4253.613 | 21814.899 | 4321.084 | 22528.871 | 2820.000 | 6.152 | 6.153 | 33.259 | 34.608 | 8456.879 | 72297.920 | 8556.022 | 74978.415 |
| 1280.000 | 0.000 | 0.000 | 37.423 | 39.268 | 4253.613 | 22605.955 | 4321.084 | 23360.404 | 2840.000 | 4.883 | 4.920 | 33.946 | 34.729 | 8573.038 | 72963.150 | 8672.882 | 75663.619 |
| 1300.000 | 0.000 | 0.000 | 33.678 | 34.952 | 4253.613 | 23318.791 | 4321.084 | 24104.846 | 2860.000 | 4.981 | 5.010 | 34.225 | 34.966 | 8679.829 | 73634.952 | 8780.198 | 76349.906 |
| 1320.000 | 0.000 | 0.000 | 27.549 | 28.288 | 4253.613 | 23942.533 | 4321.084 | 24748.169 | 2880.000 | 5.272 | 5.272 | 31.986 | 32.640 | 8784.683 | 74285.967 | 8885.158 | 77014.367 |
| 1340.000 | 0.000 | 0.000 | 27.621 | 28.080 | 4253.613 | 24490.980 | 4321.084 | 25307.708 | 2900.000 | 5.180 | 5.180 | 30.416 | 30.869 | 8883.648 | 74918.487 | 8984.123 | 77658.342 |
| 1360.000 | 0.000 | 0.000 | 27.485 | 28.044 | 4253.613 | 25043.275 | 4321.084 | 25870.037 | 2920.000 | 5.276 | 5.278 | 29.215 | 29.606 | 8981.834 | 75521.775 | 9082.323 | 78270.378 |
| 1380.000 | 3.148 | 3.162 | 24.504 | 25.047 | 4285.335 | 25561.749 | 4352.912 | 26402.082 | 2940.000 | 5.378 | 5.378 | 28.209 | 28.566 | 9086.306 | 76100.403 | 9186.809 | 78856.690 |
| 1400.000 | 2.907 | 2.958 | 24.393 | 25.011 | 4343.744 | 26051.283 | 4412.041 | 26904.352 | 2960.000 | 4.456 | 4.456 | 28.100 | 28.417 | 9183.898 | 76663.821 | 9284.402 | 79426.839 |
| 1420.000 | 3.746 | 3.806 | 23.170 | 23.858 | 4414.481 | 26520.269 | 4483.740 | 27384.905 | 2980.000 | 4.284 | 4.284 | 27.881 | 28.144 | 9275.898 | 77215.232 | 9376.414 | 79983.876 |
| 1440.000 | 3.543 | 3.600 | 22.373 | 22.776 | 4486.702 | 26976.053 | 4557.116 | 27851.625 | 3000.000 | 6.364 | 6.366 | 25.502 | 25.835 | 9381.319 | 77752.020 | 9481.848 | 80525.324 |
| 1460.000 | 4.116 | 4.173 | 20.966 | 21.182 | 4560.234 | 27413.334 | 4631.840 | 28295.096 | 3020.000 | 5.828 | 5.828 | 25.493 | 25.831 | 9498.490 | 78266.512 | 9599.037 | 81046.489 |
| 1480.000 | 3.903 | 3.930 | 17.857 | 18.017 | 4663.189 | 27785.462 | 4735.599 | 28670.836 | 3040.000 | 6.060 | 6.070 | 24. | | | | | |

Istram 22.11.11.15 21/11/22 11:13:44 200315
 PROYECTO :
 EJE: 1: TRONCO N-II

Istram 22.11.11.15 21/11/22 11:13:44 200315
 PROYECTO :
 EJE: 1: TRONCO N-II

***** DESBROCES *****

***** DESBROCES *****

PK inicial : 0.000
 PK final : 10091.039

PK inicial : 0.000
 PK final : 10091.039

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|----------|-----------------|--------|-----------|--------|----------------------------|------------|-----------------|------------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 3500.000 | 5.963 | 5.963 | 27.272 | 27.882 | 13186.613 | 89552.528 | 13318.567 | 92549.158 |
| 3520.000 | 5.323 | 5.323 | 28.310 | 29.084 | 13307.702 | 90100.001 | 13439.674 | 93109.972 |
| 3540.000 | 4.723 | 4.724 | 29.458 | 30.290 | 13409.502 | 90676.253 | 13541.487 | 93701.871 |
| 3560.000 | 5.616 | 5.616 | 28.867 | 29.787 | 13516.996 | 91255.051 | 13648.984 | 94300.529 |
| 3580.000 | 5.125 | 5.126 | 29.697 | 30.715 | 13618.550 | 91845.416 | 13750.636 | 94910.134 |
| 3600.000 | 4.768 | 4.768 | 30.346 | 31.249 | 13721.622 | 92440.972 | 13853.725 | 95524.906 |
| 3620.000 | 0.000 | 0.000 | 30.021 | 31.091 | 13745.463 | 93039.137 | 13877.567 | 96142.797 |
| 3640.000 | 0.000 | 0.000 | 28.594 | 29.359 | 13745.463 | 93635.771 | 13877.569 | 96759.503 |
| 3660.000 | 1.860 | 1.860 | 29.896 | 30.707 | 13754.765 | 94213.889 | 13886.869 | 97353.209 |
| 3680.000 | 2.609 | 2.609 | 29.449 | 30.395 | 13800.577 | 94806.107 | 13932.682 | 97962.607 |
| 3700.000 | 2.710 | 2.710 | 29.367 | 30.357 | 13843.741 | 95405.270 | 13975.846 | 98581.485 |
| 3720.000 | 2.568 | 2.568 | 28.367 | 29.199 | 13898.384 | 95981.558 | 14030.491 | 99176.473 |
| 3740.000 | 0.000 | 0.000 | 0.000 | 0.000 | 13906.254 | 96286.364 | 14038.362 | 99493.125 |
| 3760.000 | 2.586 | 2.586 | 29.618 | 30.689 | 13918.504 | 96677.691 | 14050.612 | 99899.847 |
| 3780.000 | 2.816 | 2.816 | 29.054 | 30.086 | 13963.539 | 97272.439 | 14095.649 | 100515.522 |
| 3800.000 | 2.906 | 2.906 | 29.450 | 30.515 | 14015.393 | 97859.688 | 14147.504 | 101123.326 |
| 3820.000 | 2.372 | 2.372 | 30.533 | 31.619 | 14061.601 | 98466.502 | 14193.713 | 101751.596 |
| 3840.000 | 2.624 | 2.625 | 30.229 | 31.365 | 14111.388 | 99076.028 | 14243.501 | 102382.944 |
| 3860.000 | 3.237 | 3.237 | 29.376 | 30.318 | 14166.026 | 99676.396 | 14298.142 | 103004.596 |
| 3880.000 | 3.206 | 3.206 | 31.472 | 32.886 | 14231.910 | 100292.198 | 14364.031 | 103645.567 |
| 3900.000 | 3.108 | 3.108 | 31.513 | 33.041 | 14293.810 | 100925.118 | 14425.939 | 104309.077 |
| 3920.000 | 3.124 | 3.124 | 31.605 | 32.934 | 14361.682 | 101552.882 | 14493.813 | 104965.266 |
| 3940.000 | 3.503 | 3.503 | 30.136 | 31.281 | 14421.584 | 102172.167 | 14553.716 | 105608.251 |
| 3960.000 | 3.534 | 3.535 | 29.547 | 30.649 | 14487.010 | 102774.967 | 14619.143 | 106233.862 |
| 3980.000 | 2.501 | 2.501 | 29.169 | 30.037 | 14552.116 | 103355.997 | 14684.251 | 106834.112 |
| 4000.000 | 3.751 | 3.763 | 26.982 | 27.684 | 14623.497 | 103923.374 | 14755.753 | 107417.181 |
| 4020.000 | 3.949 | 3.972 | 25.804 | 26.290 | 14700.574 | 104449.784 | 14833.198 | 107955.574 |
| 4040.000 | 3.601 | 3.627 | 26.156 | 26.719 | 14782.750 | 104963.416 | 14915.856 | 108479.414 |
| 4060.000 | 5.321 | 5.349 | 24.115 | 24.660 | 14866.738 | 105471.469 | 15000.391 | 108998.353 |
| 4080.000 | 7.490 | 7.562 | 21.957 | 22.555 | 14991.903 | 105936.851 | 15126.623 | 109475.714 |
| 4100.000 | 6.431 | 6.493 | 23.031 | 23.548 | 15120.428 | 106398.420 | 15256.367 | 109948.325 |
| 4120.000 | 7.360 | 7.453 | 21.902 | 22.419 | 15258.406 | 106854.031 | 15395.909 | 110415.467 |
| 4140.000 | 7.827 | 7.909 | 21.539 | 22.030 | 15405.076 | 107293.008 | 15544.298 | 110864.310 |
| 4160.000 | 7.524 | 7.608 | 21.883 | 22.452 | 15566.795 | 107722.995 | 15707.954 | 111305.693 |
| 4180.000 | 9.203 | 9.288 | 19.906 | 20.490 | 15738.372 | 108139.662 | 15881.209 | 111734.655 |
| 4200.000 | 10.021 | 10.136 | 18.465 | 18.867 | 15926.782 | 108567.651 | 16071.487 | 112174.297 |
| 4220.000 | 8.721 | 8.836 | 21.388 | 21.897 | 16112.099 | 108974.134 | 16259.010 | 112589.740 |
| 4240.000 | 7.866 | 7.979 | 22.110 | 22.680 | 16278.451 | 109408.194 | 16427.726 | 113034.112 |
| 4260.000 | 8.443 | 8.597 | 23.153 | 24.071 | 16440.359 | 109857.402 | 16592.007 | 113497.227 |
| 4280.000 | 8.060 | 8.161 | 23.537 | 24.368 | 16603.260 | 110324.471 | 16757.736 | 113982.016 |
| 4300.000 | 7.800 | 7.895 | 23.529 | 24.282 | 16756.309 | 110800.803 | 16912.726 | 114474.023 |
| 4320.000 | 7.431 | 7.521 | 24.259 | 25.087 | 16905.861 | 111279.045 | 17064.126 | 114967.667 |
| 4340.000 | 7.187 | 7.278 | 24.958 | 25.951 | 17054.041 | 111774.688 | 17214.092 | 115482.453 |
| 4360.000 | 7.191 | 7.274 | 25.260 | 26.327 | 17203.858 | 112271.396 | 17365.673 | 115999.795 |
| 4380.000 | 6.818 | 6.895 | 24.303 | 25.109 | 17344.596 | 112768.896 | 17507.967 | 116516.373 |
| 4400.000 | 6.898 | 6.970 | 24.839 | 25.739 | 17483.014 | 113257.234 | 17647.889 | 117021.423 |
| 4420.000 | 6.995 | 7.068 | 27.950 | 29.422 | 17622.292 | 113797.164 | 17788.596 | 117587.474 |
| 4440.000 | 7.457 | 7.532 | 28.054 | 29.605 | 17761.448 | 114360.211 | 17929.238 | 118179.579 |
| 4460.000 | 6.700 | 6.781 | 29.237 | 30.938 | 17908.464 | 114925.877 | 18077.809 | 118777.234 |
| 4480.000 | 6.031 | 6.105 | 31.011 | 32.866 | 18045.163 | 115521.796 | 18216.149 | 119408.490 |
| 4500.000 | 7.132 | 7.191 | 30.005 | 31.897 | 18180.780 | 116141.183 | 18353.152 | 120065.075 |
| 4520.000 | 6.017 | 6.058 | 31.596 | 33.618 | 18303.035 | 116766.136 | 18476.429 | 120729.027 |
| 4540.000 | 4.661 | 4.687 | 33.504 | 35.528 | 18403.737 | 117423.279 | 18577.815 | 121426.568 |
| 4560.000 | 5.487 | 5.506 | 33.614 | 35.617 | 18510.059 | 118089.996 | 18684.598 | 122133.861 |
| 4580.000 | 4.489 | 4.508 | 35.498 | 37.803 | 18609.113 | 118782.243 | 18784.034 | 122868.701 |
| 4600.000 | 0.741 | 0.749 | 19.188 | 20.223 | 18625.694 | 119120.090 | 18800.791 | 123224.461 |
| 4620.000 | 3.523 | 3.523 | 37.432 | 39.826 | 18683.704 | 119782.317 | 18858.824 | 123929.171 |
| 4640.000 | 3.569 | 3.569 | 37.815 | 40.161 | 18754.562 | 120534.073 | 18929.683 | 124728.233 |
| 4660.000 | 3.900 | 3.900 | 37.943 | 40.409 | 18840.239 | 121279.415 | 19015.429 | 125521.205 |
| 4680.000 | 4.665 | 4.665 | 37.950 | 40.458 | 18929.065 | 122035.576 | 19104.255 | 126327.349 |
| 4700.000 | 4.787 | 4.787 | 37.998 | 40.660 | 19022.178 | 122793.236 | 19197.368 | 127136.081 |
| 4720.000 | 4.884 | 4.884 | 38.410 | 41.122 | 19110.480 | 123566.687 | 19285.670 | 127963.420 |
| 4740.000 | 4.595 | 4.596 | 39.087 | 41.814 | 19195.678 | 124350.984 | 19370.889 | 128801.759 |
| 4760.000 | 4.075 | 4.075 | 40.116 | 42.908 | 19288.158 | 125135.805 | 19463.665 | 129641.556 |
| 4780.000 | 4.830 | 4.830 | 39.908 | 42.796 | 19373.681 | 125939.229 | 19549.190 | 130502.048 |
| 4800.000 | 4.046 | 4.046 | 41.412 | 44.529 | 19459.547 | 126755.563 | 19635.057 | 131378.031 |
| 4820.000 | 4.903 | 4.903 | 41.181 | 44.337 | 19554.833 | 127575.492 | 19730.344 | 132261.466 |
| 4840.000 | 4.494 | 4.494 | 42.070 | 45.072 | 19646.181 | 128411.162 | 19821.692 | 133158.964 |
| 4860.000 | 0.020 | 0.020 | 29.876 | 32.685 | 19701.932 | 129153.095 | 19877.445 | 133959.211 |
| 4880.000 | 0.000 | 0.000 | 0.000 | 0.000 | 19702.236 | 129288.299 | 19877.755 | 134105.085 |
| 4900.000 | 3.636 | 3.636 | 44.241 | 47.239 | 19729.417 | 129683.274 | 19904.961 | 134517.915 |
| 4920.000 | 7.443 | 7.471 | 45.154 | 48.141 | 19873.454 | 130580.697 | 20049.286 | 135475.748 |
| 4940.000 | 7.434 | 7.513 | 45.084 | 48.113 | 20027.780 | 131477.092 | 20204.497 | 136432.545 |
| 4960.000 | 7.750 | 7.872 | 45.254 | 48.178 | 20188.560 | 132372.807 | 20367.077 | 137388.531 |
| 4980.000 | 8.598 | 8.702 | 44.970 | 47.908 | 20355.613 | 133274.028 | 20535.894 | 138351.349 |
| 5000.000 | 8.260 | 8.260 | 46.814 | 49.922 | 20517.897 | 134223.413 | 20698.280 | 139360.634 |
| 5020.000 | 7.702 | 7.703 | 48.030 | 51.132 | 20682.440 | 135167.548 | 20862.826 | 140366.806 |

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|----------|-----------------|--------|-----------|--------|----------------------------|------------|-----------------|------------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 5040.000 | 7.801 | 7.801 | 48.660 | 51.812 | 20847.875 | 136123.807 | 21028.264 | 141385.258 |
| 5060.000 | 8.275 | 8.277 | 48.233 | 51.129 | 21021.179 | 137080.940 | 21201.591 | 142402.853 |
| 5080.000 | 9.019 | 9.028 | 47.045 | 49.791 | 21197.579 | 138030.646 | 21378.135 | 143408.354 |
| 5100.000 | 9.185 | 9.191 | 46.432 | 49.380 | 21376.734 | 138968.716 | 21557.418 | 144402.131 |
| 5120.000 | 9.676 | 9.712 | 45.513 | 48.171 | 21564.931 | 139888.558 | 21746.057 | 145377.167 |
| 5140.000 | 13.377 | 13.421 | 41.245 | 43.840 | 21793.500 | 140760.496 | 21975.583 | 146301.591 |
| 5160.000 | 14.288 | 14.348 | 39.693 | 42.361 | 22056.504 | 141581.086 | 22239.668 | 147174.325 |
| 5180.000 | 12.966 | 13.084 | 40.887 | 43.336 | 22333.157 | 142382.547 | 22517.739 | 148026.454 |
| 5200.000 | 15.771 | 15.912 | 38.354 | 40.669 | 22616.684 | 143176.778 | 22803.829 | 148867.935 |
| 5220.000 | 16.102 | 16.198 | 39.497 | 41.789 | 22927.994 | 143962.068 | 23117.392 | 149699.041 |
| 5240.000 | 11.155 | 11.439 | 25.206 | 26.497 | 23225.565 | 144715.364 | 23420.090 | 150495.949 |
| 5260.000 | 10.079 | 10.356 | 26.357 | 27.795 | 23430.180 | 145239.750 | 23630.280 | 151047.479 |
| 5280.000 | 10.343 | 10.608 | 26.004 | 27.477 | 23636.785 | 145761.956 | 23842.307 | 151598.802 |
| 5300.000 | 8.530 | 9.051 | 27.986 | 30.093 | 23842.334 | 146284.219 | 24053.776 | 152151.844 |
| 5320.000 | 0.000 | 0.000 | 0.000 | 0.000 | 23845.492 | 146294.280 | 24057.123 | 152162.655 |
| 5340.000 | 0.000 | 0.000 | 0.000 | 0.000 | 23845.492 | 146294.280 | 24057.123 | 152162.655 |
| 5360.000 | 0.000 | 0.000 | 0.000 | 0.000 | 23845.492 | 146294.280 | 24057.123 | 152162.655 |
| 5380.000 | 0.000 | 0.000 | 0.000 | 0.000 | 23845.492 | 146294.280 | 24057.123 | 152162.655 |
| 5400.000 | 0.000 | 0.000 | 0.000 | 0.000 | 23845.492 | 146294.280 | 24057.123 | 152162.655 |
| 5420.000 | 0.000 | 0.000 | 0 | | | | | |

Istram 22.11.11.15 21/11/22 11:13:45 200315
 PROYECTO :
 EJE: 1: TRONCO N-II

Istram 22.11.11.15 21/11/22 11:13:45 200315
 PROYECTO :
 EJE: 1: TRONCO N-II

 * * * D E S B R O C E S * * *

PK inicial : 0.000
 PK final : 10091.039

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|----------|-----------------|--------|-----------|--------|----------------------------|------------|-----------------|------------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 6580.000 | 8.716 | 8.852 | 42.193 | 44.994 | 29215.369 | 172775.466 | 29538.956 | 179916.577 |
| 6600.000 | 6.755 | 6.860 | 44.440 | 47.375 | 29370.521 | 173638.052 | 29697.023 | 180836.221 |
| 6620.000 | 6.929 | 7.038 | 45.373 | 48.220 | 29508.263 | 174534.881 | 29836.847 | 181792.917 |
| 6640.000 | 2.658 | 2.740 | 23.054 | 25.768 | 29556.499 | 174883.300 | 29886.284 | 182179.082 |
| 6660.000 | 6.163 | 6.242 | 47.676 | 51.298 | 29650.590 | 175633.270 | 29982.128 | 182992.623 |
| 6680.000 | 5.629 | 5.708 | 50.188 | 54.081 | 29770.736 | 176612.912 | 30103.792 | 184048.621 |
| 6700.000 | 6.243 | 6.324 | 50.914 | 54.978 | 29882.654 | 177629.905 | 30217.235 | 185145.021 |
| 6720.000 | 5.779 | 5.845 | 51.897 | 56.059 | 30005.915 | 178655.528 | 30341.954 | 186253.378 |
| 6740.000 | 6.692 | 6.810 | 53.440 | 57.932 | 30112.527 | 179707.862 | 30450.266 | 187393.039 |
| 6760.000 | 7.201 | 7.385 | 52.982 | 57.521 | 30247.064 | 180779.045 | 30587.162 | 188554.791 |
| 6780.000 | 6.978 | 7.062 | 54.629 | 59.214 | 30386.104 | 181856.638 | 30728.605 | 189723.334 |
| 6800.000 | 7.945 | 8.100 | 54.327 | 59.689 | 30535.524 | 182949.609 | 30880.776 | 190920.952 |
| 6820.000 | 7.755 | 7.814 | 55.693 | 60.783 | 30694.895 | 184049.694 | 31041.722 | 192128.789 |
| 6840.000 | 8.226 | 8.259 | 56.037 | 61.190 | 30849.595 | 185175.427 | 31197.432 | 193356.447 |
| 6860.000 | 5.353 | 5.361 | 59.811 | 65.075 | 30994.900 | 186323.970 | 31343.144 | 194608.916 |
| 6880.000 | 5.052 | 5.081 | 59.590 | 64.905 | 31094.415 | 187527.496 | 31442.891 | 195919.486 |
| 6900.000 | 5.226 | 5.247 | 60.486 | 65.899 | 31197.573 | 188725.312 | 31546.811 | 197223.697 |
| 6920.000 | 0.000 | 0.000 | 15.791 | 15.865 | 31237.025 | 189454.672 | 31586.643 | 198016.576 |
| 6940.000 | 0.020 | 0.020 | 14.161 | 14.209 | 31237.138 | 189557.547 | 31586.756 | 198120.102 |
| 6960.000 | 0.411 | 0.411 | 37.973 | 39.229 | 31237.978 | 190239.727 | 31587.603 | 198822.300 |
| 6980.000 | 4.920 | 4.920 | 28.367 | 29.702 | 31294.612 | 190899.447 | 31644.314 | 199502.911 |
| 7000.000 | 5.332 | 5.333 | 40.702 | 43.153 | 31394.771 | 191613.919 | 31744.477 | 200254.224 |
| 7020.000 | 4.009 | 4.011 | 23.119 | 25.474 | 31487.038 | 192277.374 | 31836.800 | 200968.813 |
| 7040.000 | 0.020 | 0.020 | 4.700 | 4.705 | 31552.198 | 192515.222 | 31902.010 | 201217.192 |
| 7060.000 | 7.180 | 7.206 | 37.905 | 40.071 | 31600.876 | 193080.785 | 31950.932 | 201790.825 |
| 7080.000 | 7.357 | 7.436 | 32.135 | 34.404 | 31746.758 | 193774.416 | 32098.303 | 202537.923 |
| 7100.000 | 7.501 | 7.545 | 18.347 | 19.157 | 31896.905 | 194329.677 | 32249.620 | 203119.521 |
| 7120.000 | 4.635 | 4.635 | 23.616 | 24.981 | 31980.752 | 194744.978 | 32333.616 | 203547.516 |
| 7140.000 | 9.194 | 9.214 | 29.967 | 32.532 | 32101.039 | 195288.146 | 32453.965 | 204130.947 |
| 7160.000 | 0.000 | 0.000 | 33.122 | 35.345 | 32233.508 | 195974.382 | 32586.643 | 204862.344 |
| 7180.000 | 0.000 | 0.000 | 33.899 | 36.000 | 32233.508 | 196649.108 | 32586.643 | 205579.562 |
| 7200.000 | 0.000 | 0.000 | 31.345 | 33.528 | 32233.508 | 197314.094 | 32586.643 | 206287.530 |
| 7220.000 | 0.000 | 0.000 | 25.365 | 27.299 | 32233.508 | 197877.888 | 32586.643 | 206891.640 |
| 7240.000 | 2.533 | 2.534 | 18.526 | 20.329 | 32286.747 | 198287.499 | 32639.912 | 207338.078 |
| 7260.000 | 2.205 | 2.207 | 36.334 | 38.894 | 32337.728 | 198776.109 | 32690.908 | 207863.972 |
| 7280.000 | 7.410 | 7.430 | 36.152 | 38.856 | 32506.680 | 199526.597 | 32860.211 | 208669.726 |
| 7300.000 | 5.445 | 5.498 | 36.652 | 39.280 | 32645.674 | 200225.152 | 32999.758 | 209415.192 |
| 7320.000 | 11.108 | 11.548 | 38.813 | 41.343 | 32898.370 | 200974.758 | 33262.013 | 210213.970 |
| 7340.000 | 9.646 | 9.981 | 40.382 | 42.704 | 33104.016 | 201767.715 | 33475.840 | 211054.804 |
| 7360.000 | 9.399 | 9.574 | 40.412 | 42.906 | 33305.205 | 202567.610 | 33681.686 | 211903.027 |
| 7380.000 | 11.048 | 11.221 | 38.056 | 40.583 | 33518.434 | 203344.423 | 33898.345 | 212730.284 |
| 7400.000 | 12.036 | 12.455 | 35.846 | 38.059 | 33737.449 | 204098.635 | 34121.827 | 213533.651 |
| 7420.000 | 0.020 | 0.020 | 5.888 | 5.894 | 33822.631 | 204392.473 | 34208.830 | 213845.385 |
| 7440.000 | 5.054 | 5.200 | 38.919 | 41.710 | 33919.652 | 204932.508 | 34307.262 | 214412.842 |
| 7460.000 | 4.921 | 5.033 | 37.697 | 40.532 | 34025.734 | 205691.995 | 34416.061 | 215229.261 |
| 7480.000 | 4.681 | 4.740 | 37.137 | 39.885 | 34122.639 | 206438.109 | 34514.644 | 216030.557 |
| 7500.000 | 3.324 | 3.369 | 36.656 | 39.370 | 34191.916 | 207185.025 | 34584.882 | 216832.201 |
| 7520.000 | 4.473 | 4.547 | 34.315 | 37.051 | 34270.655 | 207922.857 | 34664.904 | 217624.423 |
| 7540.000 | 4.826 | 4.877 | 33.207 | 35.945 | 34358.719 | 208601.672 | 34753.992 | 218357.504 |
| 7560.000 | 4.296 | 4.362 | 32.828 | 35.429 | 34448.134 | 209264.175 | 34844.591 | 219073.713 |
| 7580.000 | 4.565 | 4.643 | 32.379 | 35.062 | 34536.546 | 209915.825 | 34934.482 | 219778.102 |
| 7600.000 | 4.058 | 4.138 | 32.854 | 35.545 | 34625.831 | 210564.112 | 35025.322 | 220480.489 |
| 7620.000 | 4.684 | 4.824 | 32.392 | 35.203 | 34713.694 | 211216.550 | 35115.104 | 221188.272 |
| 7640.000 | 4.504 | 4.602 | 31.984 | 34.601 | 34806.347 | 211860.606 | 35210.066 | 221887.127 |
| 7660.000 | 4.468 | 4.569 | 25.891 | 27.364 | 34906.575 | 212398.475 | 35312.289 | 222459.358 |
| 7680.000 | 3.325 | 3.394 | 15.423 | 16.830 | 34994.178 | 212864.992 | 35401.981 | 222954.401 |
| 7700.000 | 3.289 | 3.406 | 15.347 | 16.843 | 35044.311 | 213094.692 | 35453.060 | 223195.373 |
| 7720.000 | 5.445 | 5.559 | 26.143 | 27.724 | 35130.649 | 213577.518 | 35541.632 | 223708.376 |
| 7740.000 | 5.729 | 5.820 | 25.925 | 27.564 | 35234.756 | 214106.539 | 35647.855 | 224270.056 |
| 7760.000 | 5.068 | 5.146 | 25.936 | 27.365 | 35347.357 | 214621.202 | 35762.030 | 224815.149 |
| 7780.000 | 4.305 | 4.398 | 26.359 | 27.879 | 35444.728 | 215139.871 | 35861.108 | 225363.025 |
| 7800.000 | 4.802 | 4.890 | 26.236 | 27.452 | 35532.580 | 215667.192 | 35950.787 | 225918.499 |
| 7820.000 | 6.724 | 6.853 | 23.346 | 24.604 | 35634.051 | 216177.161 | 36055.745 | 226453.298 |
| 7840.000 | 6.579 | 6.867 | 25.121 | 26.473 | 35762.182 | 216657.938 | 36186.305 | 226959.917 |
| 7860.000 | 3.597 | 3.641 | 27.094 | 28.424 | 35850.768 | 217188.132 | 36276.941 | 227518.287 |
| 7880.000 | 3.340 | 3.386 | 27.911 | 29.360 | 35924.496 | 217734.864 | 36351.569 | 228093.281 |
| 7900.000 | 2.937 | 2.985 | 27.837 | 29.290 | 35993.423 | 218292.351 | 36421.442 | 228680.694 |
| 7920.000 | 1.483 | 1.506 | 29.831 | 31.295 | 36042.763 | 218862.237 | 36471.415 | 229280.806 |
| 7940.000 | 0.984 | 0.988 | 32.942 | 34.797 | 36076.791 | 219477.356 | 36505.726 | 229928.346 |
| 7960.000 | 0.897 | 0.897 | 33.872 | 35.873 | 36102.347 | 220136.521 | 36531.292 | 230625.501 |
| 7980.000 | 1.895 | 1.895 | 33.944 | 36.137 | 36135.269 | 220803.050 | 36564.214 | 231332.767 |
| 8000.000 | 1.650 | 1.650 | 37.790 | 40.729 | 36161.953 | 221545.963 | 36590.898 | 232130.968 |
| 8020.000 | 1.469 | 1.470 | 38.415 | 41.448 | 36191.808 | 222326.889 | 36620.756 | 232970.915 |
| 8040.000 | 1.551 | 1.565 | 38.939 | 41.839 | 36213.894 | 223110.114 | 36642.911 | 233814.406 |
| 8060.000 | 1.378 | 1.380 | 38.979 | 41.720 | 36246.862 | 223888.000 | 36675.963 | 234648.575 |
| 8080.000 | 1.458 | 1.458 | 38.702 | 41.327 | 36276.721 | 224665.283 | 36705.835 | 235480.031 |
| 8100.000 | 0.040 | 0.040 | 18.590 | 19.093 | 36294.175 | 225297.884 | 36723.289 | 236153.819 |

 * * * D E S B R O C E S * * *

PK inicial : 0.000
 PK final : 10091.039

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|----------|-----------------|-------|-----------|--------|----------------------------|------------|-----------------|------------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 8120.000 | 0.020 | 0.020 | 18.621 | 18.807 | 36294.374 | 225409.305 | 36723.488 | 236266.743 |
| 8140.000 | 4.584 | 4.584 | 37.034 | 39.662 | 36341.990 | 226005.972 | 36771.105 | 236900.802 |
| 8160.000 | 3.528 | 3.529 | 38.849 | 41.417 | 36422.440 | 226769.009 | 36851.559 | 237716.428 |
| 8180.000 | 4.566 | 4.566 | 37.484 | 40.028 | 36500.278 | 227536.260 | 36929.402 | 238534.993 |
| 8200.000 | 4.679 | 4.679 | 36.954 | 39.460 | 36593.412 | 228279.677 | 37022.537 | 239328.855 |
| 8220.000 | 4.261 | 4.261 | 32.178 | 33.656 | 36678.883 | 228994.420 | 37108.009 | 240086.777 |
| 8240.000 | 2.866 | 2.866 | 32.541 | 34.061 | 36755.680 | 229642.152 | 37184.806 | 240765.610 |
| 8260.000 | 3.100 | 3.100 | 29.980 | 31.134 | 36815.734 | 230260.701 | 37244.867 | 241409.467 |
| 8280.000 | 3.690 | 3.709 | 28.667 | 29.684 | 36888.108 | 230842.208 | 37317.425 | 242011.926 |
| 8300.000 | 3.947 | 3.990 | 30.746 | 31.870 | 36972.083 | 231420.356 | 37402.004 | 242610.964 |
| 8320.000 | 4.034 | 4.077 | 27.394 | 28.319 | 37053.988 | 231998.568 | 37484.798 | 243209.681 |
| 8340.000 | 7.082 | 7.141 | 23.450 | 24.308 | 37167.000 | 232506.042 | 37598.851 | 243734.839 |
| 8360.000 | 7.374 | 7.547 | 22.522 | 23.377 | 37315.041 | 232961.385 | 37749.122 | 244207.756 |
| 8380.000 | 6.001 | 6.087 | 23.057 | 23.796 | 37440.925 | 233421.599 | 37876.901 | 244683.523 |
| 8400.000 | 5.830 | 5.920 | 22.743 | 23.503 | 37573.276 | 233865.750 | 38011.094 | 245142.474 |
| 8420.000 | 6.487 | 6.552 | 21.531 | 22.392 | 37698.932 | 234306.516 | 38138.206 | 245598.000 |
| 8440.000 | 6.470 | 6.559 | 22.090 | 22.833 | 37811.883 | 234751.568 | 38252.515 | 246059.572 |
| 8460.000 | 5.229 | 5.293 | 21.396 | 22.185 | 37924.276 | 235186.287 | 38366.296 | 246509.636 |
| 8480.000 | 5.749 | 5.814 | 20.726 | 21.250 | 38026.950 | 235610.739 | 38 | |

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 EJE: 8: E1 RAMAL 1

 D E S B R O C E S

PK inicial : 0.000
 PK final : 476.583

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 198.678 | 2.093 | 2.093 | 20.298 | 20.322 | 0.000 | 0.000 | 0.000 | 0.000 |
| 200.000 | 2.684 | 2.684 | 19.783 | 19.810 | 3.475 | 26.176 | 3.476 | 26.209 |
| 220.000 | 2.994 | 2.994 | 20.261 | 20.362 | 55.935 | 431.635 | 55.944 | 432.416 |
| 240.000 | 2.662 | 2.683 | 22.005 | 22.687 | 116.391 | 852.438 | 116.438 | 861.948 |
| 260.000 | 2.684 | 2.684 | 23.183 | 23.899 | 170.270 | 1309.272 | 170.392 | 1333.139 |
| 280.000 | 2.734 | 2.734 | 21.473 | 21.668 | 222.640 | 1758.417 | 222.767 | 1792.012 |
| 300.000 | 3.196 | 3.196 | 19.436 | 19.471 | 281.873 | 2167.660 | 282.001 | 2203.912 |
| 320.000 | 2.197 | 2.198 | 18.483 | 18.594 | 337.192 | 2545.494 | 337.322 | 2583.053 |
| 340.000 | 2.222 | 2.223 | 16.395 | 16.603 | 391.125 | 2884.652 | 391.259 | 2925.544 |
| 360.000 | 2.547 | 2.547 | 14.679 | 15.063 | 450.822 | 3180.650 | 451.147 | 3234.063 |
| 380.000 | 6.020 | 6.044 | 8.627 | 8.954 | 547.164 | 3402.798 | 547.675 | 3462.987 |
| 400.000 | 7.083 | 7.218 | 7.554 | 7.744 | 684.487 | 3558.973 | 686.368 | 3624.523 |
| 420.000 | 13.620 | 13.762 | 0.000 | 0.000 | 926.938 | 3602.061 | 932.218 | 3668.914 |
| 440.000 | 14.163 | 14.237 | 0.277 | 0.283 | 1166.934 | 3610.316 | 1173.684 | 3677.446 |
| 460.000 | 15.075 | 15.136 | 0.264 | 0.267 | 1464.481 | 3613.709 | 1472.486 | 3680.896 |
| 470.280 | 12.993 | 13.056 | 2.171 | 2.234 | 1613.053 | 3621.921 | 1621.787 | 3689.351 |

Istram 22.11.11.15 21/11/22 11:13:46 200315
 EJE: 10: E2 GLORIETA (PI 5.8 Y 6.0)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 483.805

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 50.201 | 51.721 | 33.438 | 33.599 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 43.048 | 43.425 | 44.698 | 44.842 | 929.447 | 783.085 | 956.332 | 786.246 |
| 40.000 | 45.148 | 45.854 | 40.129 | 40.539 | 1739.003 | 1785.628 | 1772.053 | 1792.041 |
| 60.000 | 38.509 | 38.580 | 49.846 | 49.920 | 2582.307 | 2699.281 | 2626.250 | 2712.535 |
| 80.000 | 52.021 | 53.491 | 32.665 | 33.116 | 3520.312 | 3489.300 | 3577.464 | 3508.677 |
| 100.000 | 83.259 | 85.601 | 3.679 | 3.710 | 4854.150 | 3876.301 | 4946.664 | 3900.396 |
| 120.000 | 45.694 | 46.624 | 32.087 | 32.192 | 6300.823 | 4052.524 | 6430.302 | 4077.295 |
| 140.000 | 33.777 | 34.406 | 57.323 | 57.437 | 7138.335 | 4924.149 | 7282.525 | 4951.322 |
| 160.000 | 9.563 | 10.354 | 81.537 | 81.664 | 7553.615 | 6330.870 | 7711.949 | 6360.650 |
| 180.000 | 10.958 | 11.824 | 93.260 | 93.413 | 7657.152 | 8093.993 | 7826.613 | 8126.629 |
| 200.000 | 27.016 | 27.991 | 96.317 | 96.603 | 8143.790 | 10008.888 | 8335.691 | 10048.368 |
| 220.000 | 24.355 | 24.865 | 89.042 | 89.160 | 8660.946 | 11863.691 | 8867.904 | 11907.748 |
| 240.000 | 9.382 | 9.638 | 95.080 | 95.214 | 9059.642 | 13636.593 | 9274.120 | 13682.504 |
| 260.000 | 0.000 | 0.000 | 96.293 | 96.315 | 9171.071 | 15545.657 | 9388.420 | 15593.327 |
| 280.000 | 0.000 | 0.000 | 89.748 | 89.749 | 9171.071 | 17401.057 | 9388.420 | 17448.887 |
| 300.000 | 16.864 | 16.864 | 80.322 | 80.327 | 9382.919 | 19122.302 | 9600.268 | 19170.193 |
| 320.000 | 29.033 | 29.225 | 78.879 | 78.937 | 9912.019 | 20692.098 | 10130.765 | 20740.790 |
| 340.000 | 36.181 | 36.731 | 79.217 | 79.226 | 10571.385 | 22262.821 | 10797.404 | 22311.941 |
| 360.000 | 37.442 | 38.042 | 77.900 | 78.001 | 11267.956 | 23907.394 | 11508.878 | 23957.449 |
| 380.000 | 15.108 | 15.670 | 75.992 | 76.003 | 11681.758 | 25435.185 | 11931.438 | 25485.836 |
| 400.000 | 22.812 | 23.766 | 68.288 | 68.302 | 12037.921 | 26901.021 | 12305.340 | 26951.900 |
| 420.000 | 45.286 | 45.907 | 45.814 | 45.840 | 12689.725 | 28071.217 | 12974.118 | 28122.475 |
| 440.000 | 50.563 | 51.999 | 28.068 | 28.091 | 13604.668 | 28787.854 | 13906.461 | 28839.673 |
| 460.000 | 66.361 | 68.341 | 21.359 | 21.501 | 14927.217 | 29123.897 | 15263.497 | 29176.877 |
| 480.000 | 52.855 | 54.315 | 31.229 | 31.391 | 16117.767 | 29649.392 | 16486.824 | 29705.508 |
| 483.805 | 50.201 | 51.721 | 33.438 | 33.599 | 16315.193 | 29772.146 | 16689.998 | 29828.863 |

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 EJE: 11: E2 VIAL 1 C-260

 D E S B R O C E S

PK inicial : 0.000
 PK final : 88.522

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|--------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 9.045 | 9.046 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 9.581 | 9.582 | 0.000 | 0.000 | 163.577 | 29.237 | 163.591 | 29.238 |
| 40.000 | 9.379 | 9.383 | 0.000 | 0.000 | 351.770 | 29.237 | 351.825 | 29.238 |
| 60.000 | 11.821 | 11.823 | 0.000 | 0.000 | 551.920 | 29.237 | 552.020 | 29.238 |
| 80.000 | 15.061 | 15.063 | 1.092 | 1.092 | 897.325 | 38.542 | 897.464 | 38.545 |
| 88.522 | 0.000 | 0.000 | 6.492 | 6.493 | 941.271 | 86.019 | 941.415 | 86.026 |

Istram 22.11.11.15 21/11/22 11:13:46 200315
 PROYECTO :
 EJE: 12: E2 VIAL 2 C-260

 D E S B R O C E S

PK inicial : 0.000
 PK final : 114.457

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 44.962 | 21.860 | 21.861 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60.000 | 20.209 | 20.209 | 1.635 | 1.635 | 318.835 | 8.174 | 318.840 | 8.175 |
| 80.000 | 13.264 | 13.264 | 8.938 | 8.938 | 661.845 | 106.048 | 661.853 | 106.049 |
| 100.000 | 0.000 | 0.000 | 28.158 | 28.159 | 738.216 | 507.859 | 738.225 | 507.866 |
| 114.457 | 0.000 | 0.000 | 8.841 | 8.841 | 738.216 | 873.237 | 738.225 | 873.269 |

Istram 22.11.11.15 21/11/22 11:13:46 200315
 PROYECTO :
 EJE: 13: E2 RAMAL 3

 D E S B R O C E S

PK inicial : 0.000
 PK final : 427.246

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 159.052 | 5.238 | 5.416 | 20.661 | 23.226 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.000 | 5.036 | 5.453 | 20.037 | 22.314 | 4.870 | 19.291 | 5.152 | 21.586 |
| 180.000 | 8.374 | 8.374 | 16.932 | 18.222 | 141.349 | 379.819 | 144.015 | 415.071 |
| 200.000 | 7.829 | 7.829 | 17.327 | 18.447 | 296.807 | 728.039 | 299.479 | 787.011 |
| 220.000 | 7.115 | 7.118 | 17.806 | 18.882 | 444.909 | 1081.056 | 447.611 | 1161.749 |
| 240.000 | 0.000 | 0.000 | 0.000 | 0.000 | 472.901 | 1207.080 | 475.619 | 1294.405 |
| 260.000 | 4.476 | 4.483 | 18.539 | 19.823 | 489.245 | 1373.976 | 491.978 | 1468.376 |
| 280.000 | 6.445 | 6.501 | 12.490 | 13.904 | 589.128 | 1699.704 | 592.105 | 1821.986 |
| 300.000 | 12.371 | 12.753 | 9.111 | 10.219 | 799.422 | 1896.965 | 806.500 | 2044.703 |
| 320.000 | 20.539 | 21.807 | 0.000 | 0.000 | 1107.410 | 2052.139 | 1126.529 | 2215.866 |
| 340.000 | 26.206 | 27.249 | 0.899 | 1.006 | 1587.142 | 2063.623 | 1627.864 | 2228.641 |
| 360.000 | 35.914 | 37.060 | 0.485 | 0.504 | 2201.361 | 2074.800 | 2261.964 | 2240.424 |
| 380.000 | 44.157 | 45.318 | 0.048 | 0.057 | 2992.220 | 2090.981 | 3072.506 | 2257.891 |
| 400.000 | 41.283 | 42.599 | 1.026 | 1.100 | 3868.921 | 2106.351 | 3970.353 | 2274.729 |
| 403.529 | 40.651 | 42.267 | 0.154 | 0.163 | 4013.479 | 2108.682 | 4120.025 | 2277.261 |

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 PROYECTO :
 EJE: 15: E2 RAMAL 2

 D E S B R O C E S

PK inicial : 0.000
 PK final : 405.304

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 24.808 | 18.548 | 18.703 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.000 | 16.469 | 16.706 | 0.000 | 0.000 | 283.061 | 0.000 | 285.611 | 0.000 |
| 60.000 | 14.582 | 15.101 | 0.177 | 0.188 | 583.479 | 2.606 | 593.177 | 2.770 |
| 80.000 | 9.964 | 10.493 | 4.985 | 5.342 | 836.608 | 52.549 | 856.836 | 56.542 |
| 100.000 | 4.750 | 5.153 | 10.682 | 11.616 | 983.656 | 187.743 | 1013.471 | 204.743 |
| 120.000 | 2.420 | 2.420 | 15.433 | 16.657 | 1027.573 | 447.559 | 1058.609 | 485.926 |
| 140.000 | 1.738 | 1.738 | 21.472 | 22.779 | 1068.083 | 820.189 | 1099.119 | 883.467 |
| 160.000 | 1.643 | 1.643 | 24.821 | 25.751 | 1117.355 | 1274.445 | 1148.393 | 1360.154 |
| 180.000 | 2.405 | 2.405 | 24.412 | 25.162 | 1159.426 | 1766.824 | 1190.466 | 1869.117 |
| 200.000 | 2.668 | 2.668 | 23.528 | 24.022 | 1204.505 | 2252.470 | 1235.544 | 2366.953 |
| 220.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1246.271 | 2577.543 | 1277.325 | 2698.527 |
| 224.711 | 0.000 | 0.000 | 0.000 | 0.000 | 1246.271 | 2577.543 | 1277.325 | 2698.527 |

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 EJE: 16: E2 RAMAL 4

***** DESBROCES *****

PK inicial : 0.000
 PK final : 728.301

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 28.000 | 6.914 | 7.546 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.000 | 8.417 | 9.136 | 0.026 | 0.029 | 89.609 | 1.814 |
| 60.000 | 9.627 | 10.431 | 0.074 | 0.083 | 363.056 | 10.733 |
| 80.000 | 14.848 | 16.254 | 0.005 | 0.005 | 601.654 | 23.501 |
| 100.000 | 8.566 | 9.361 | 13.430 | 13.920 | 806.634 | 156.355 |
| 120.000 | 2.147 | 2.148 | 16.353 | 16.851 | 874.517 | 456.389 |
| 140.000 | 2.126 | 2.127 | 17.520 | 18.488 | 929.959 | 783.603 |
| 160.000 | 1.942 | 2.190 | 7.571 | 8.855 | 973.720 | 1050.639 |
| 180.000 | 5.124 | 5.893 | 13.876 | 15.165 | 1033.736 | 1273.781 |
| 200.000 | 5.798 | 6.031 | 11.460 | 12.489 | 1153.405 | 1504.662 |
| 220.000 | 5.815 | 6.055 | 12.715 | 13.835 | 1264.717 | 1750.721 |
| 240.000 | 8.124 | 8.298 | 14.425 | 15.525 | 1420.766 | 2027.187 |
| 260.000 | 3.948 | 3.993 | 16.841 | 17.958 | 1555.225 | 2335.092 |
| 280.000 | 3.382 | 3.382 | 17.643 | 19.032 | 1633.573 | 2674.971 |
| 300.000 | 4.279 | 4.280 | 16.919 | 17.714 | 1710.658 | 3020.465 |
| 320.000 | 4.368 | 4.368 | 17.104 | 17.954 | 1787.796 | 3369.851 |
| 340.000 | 4.256 | 4.256 | 17.471 | 18.490 | 1864.464 | 3725.263 |
| 360.000 | 4.184 | 4.184 | 17.696 | 18.781 | 1938.329 | 4087.946 |
| 380.000 | 4.267 | 4.267 | 17.417 | 18.289 | 2015.221 | 4448.810 |
| 400.000 | 4.318 | 4.318 | 17.396 | 18.383 | 2100.411 | 4797.416 |
| 420.000 | 4.905 | 4.905 | 16.797 | 17.655 | 2189.039 | 5140.964 |
| 440.000 | 6.827 | 7.194 | 14.224 | 14.622 | 2284.321 | 5469.841 |
| 460.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2401.015 | 5694.041 |
| 480.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2401.015 | 5694.041 |
| 500.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2401.015 | 5694.041 |
| 520.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2401.015 | 5694.041 |
| 540.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2401.015 | 5694.041 |
| 560.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2401.015 | 5694.041 |
| 580.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2401.015 | 5694.041 |
| 600.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2401.015 | 5694.041 |
| 620.000 | 5.276 | 5.281 | 16.896 | 17.682 | 2466.563 | 5926.463 |
| 640.000 | 4.823 | 4.828 | 17.495 | 18.343 | 2565.748 | 6272.608 |
| 660.000 | 5.341 | 5.344 | 16.744 | 17.756 | 2665.434 | 6620.217 |
| 668.000 | 5.418 | 5.424 | 16.615 | 17.573 | 2707.336 | 6754.447 |

Istram 22.11.11.15 21/11/22 11:13:47 200315
 EJE: 19: E2 RAMAL 5

***** DESBROCES *****

PK inicial : 0.000
 PK final : 66.134

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 23.693 | 3.438 | 3.440 | 12.985 | 12.992 | 0.000 | 0.000 |
| 36.262 | 9.599 | 9.599 | 0.934 | 0.934 | 31.752 | 142.392 |

Istram 22.11.11.15 21/11/22 11:13:47 200315
 EJE: 21: E2 RAMAL 1

***** DESBROCES *****

PK inicial : 0.000
 PK final : 437.527

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 152.615 | 3.138 | 3.138 | 20.010 | 20.180 | 0.000 | 0.000 |
| 160.000 | 2.625 | 2.625 | 20.464 | 20.609 | 19.264 | 151.439 |
| 180.000 | 1.633 | 1.633 | 21.108 | 21.271 | 65.294 | 561.668 |
| 200.000 | 2.004 | 2.005 | 20.862 | 21.010 | 107.155 | 977.532 |
| 220.000 | 2.236 | 2.236 | 20.491 | 20.617 | 144.188 | 1396.392 |
| 240.000 | 0.000 | 0.000 | 20.560 | 20.697 | 144.747 | 1806.864 |
| 260.000 | 0.000 | 0.000 | 20.720 | 20.829 | 144.748 | 2219.405 |
| 280.000 | 0.000 | 0.000 | 13.440 | 13.906 | 144.748 | 2602.499 |
| 300.000 | 0.000 | 0.000 | 19.332 | 20.089 | 144.748 | 2911.463 |
| 320.000 | 2.160 | 2.246 | 15.307 | 16.138 | 158.915 | 3273.456 |
| 340.000 | 7.881 | 8.577 | 8.670 | 9.234 | 255.538 | 3523.375 |
| 360.000 | 12.828 | 13.671 | 0.212 | 0.263 | 453.129 | 3614.012 |
| 380.000 | 16.437 | 17.087 | 0.000 | 0.000 | 744.358 | 3621.288 |
| 400.000 | 17.147 | 17.908 | 0.501 | 0.542 | 1083.911 | 3629.435 |
| 413.637 | 13.932 | 14.458 | 5.857 | 5.986 | 1303.378 | 3675.018 |

Istram 22.11.11.15 21/11/22 11:13:48 200315
 PROYECTO :
 EJE: 22: E3 GLORIETA 1

***** DESBROCES *****

PK inicial : 0.000
 PK final : 163.363

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 18.016 | 18.017 | 0.000 | 0.000 |
| 20.000 | 2.144 | 2.145 | 18.214 | 18.217 | 3.555 | 338.152 |
| 40.000 | 0.000 | 0.000 | 21.241 | 21.266 | 32.323 | 704.319 |
| 60.000 | 1.746 | 1.748 | 22.395 | 22.480 | 42.494 | 1038.358 |
| 80.000 | 1.171 | 1.171 | 19.229 | 19.413 | 78.920 | 1413.164 |
| 100.000 | 0.000 | 0.000 | 14.870 | 14.870 | 91.220 | 1759.342 |
| 120.000 | 0.000 | 0.000 | 19.312 | 19.320 | 91.220 | 2123.710 |
| 140.000 | 0.000 | 0.000 | 19.775 | 19.780 | 91.220 | 2516.192 |
| 160.000 | 0.000 | 0.000 | 18.717 | 18.807 | 91.220 | 2900.486 |
| 163.363 | 0.000 | 0.000 | 18.016 | 18.017 | 91.220 | 2962.669 |

Istram 22.11.11.15 21/11/22 11:13:48 200315
 PROYECTO :
 EJE: 24: E3 RAMAL 4

***** DESBROCES *****

PK inicial : 0.000
 PK final : 226.930

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 18.050 | 6.125 | 6.287 | 9.552 | 9.596 | 0.000 | 0.000 |
| 20.000 | 7.554 | 7.671 | 7.995 | 8.094 | 13.337 | 17.109 |
| 40.000 | 12.252 | 12.577 | 0.000 | 0.000 | 224.163 | 76.952 |
| 60.000 | 12.103 | 12.412 | 0.000 | 0.000 | 466.731 | 76.952 |
| 80.000 | 12.986 | 13.446 | 0.000 | 0.000 | 714.939 | 76.952 |
| 100.000 | 11.100 | 11.234 | 8.209 | 9.063 | 958.106 | 174.372 |
| 120.000 | 11.686 | 11.764 | 12.472 | 13.785 | 1205.461 | 374.572 |
| 140.000 | 3.527 | 3.530 | 22.827 | 24.496 | 1316.903 | 770.615 |
| 160.000 | 4.131 | 4.133 | 23.421 | 25.027 | 1391.324 | 1241.495 |
| 172.175 | 3.679 | 3.699 | 11.161 | 11.597 | 1431.836 | 1476.025 |

Istram 22.11.11.15 21/11/22 11:13:48 200315
 PROYECTO :
 EJE: 25: E3 RAMAL 3

***** DESBROCES *****

PK inicial : 0.000
 PK final : 221.376

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 43.762 | 11.081 | 11.174 | 12.519 | 13.929 | 0.000 | 0.000 |
| 60.000 | 7.389 | 7.404 | 17.381 | 18.905 | 128.276 | 271.765 |
| 80.000 | 4.583 | 4.588 | 19.872 | 21.404 | 225.021 | 668.171 |
| 100.000 | 10.652 | 10.712 | 12.427 | 13.719 | 402.386 | 968.501 |
| 120.000 | 12.899 | 13.262 | 7.472 | 8.334 | 637.387 | 1170.444 |
| 140.000 | 13.228 | 13.647 | 5.629 | 6.362 | 897.578 | 1304.279 |
| 160.000 | 14.094 | 14.341 | 5.270 | 5.958 | 1174.051 | 1403.739 |
| 180.000 | 12.795 | 12.998 | 6.009 | 6.576 | 1441.410 | 1518.302 |
| 200.000 | 12.299 | 12.416 | 4.952 | 5.110 | 1700.149 | 1609.864 |
| 206.812 | 2.766 | 2.778 | 15.219 | 15.416 | 1751.463 | 1678.568 |

Istram 22.11.11.15 21/11/22 11:13:48 200315
 PROYECTO :
 EJE: 26: E3 VIAL 2 N-260

 D E S B R O C E S

PK inicial : 0.000
 PK final : 71.689

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 12.008 | 12.063 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 13.197 | 13.248 | 0.000 | 0.000 | 249.301 | 0.000 | 250.299 | 0.000 |
| 40.000 | 16.027 | 16.101 | 0.208 | 0.218 | 513.503 | 0.580 | 515.252 | 0.600 |
| 60.000 | 2.062 | 2.072 | 23.850 | 24.077 | 721.727 | 188.913 | 724.179 | 190.798 |
| 71.689 | 1.975 | 1.975 | 8.348 | 8.348 | 724.732 | 390.337 | 727.215 | 393.717 |

Istram 22.11.11.15 21/11/22 11:13:48 200315
 PROYECTO :
 EJE: 27: E3 VIAL 1 N-260 (PI 7.0)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 306.318

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 8.614 | 8.614 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 15.775 | 15.788 | 8.650 | 324.075 | 8.723 | 324.302 |
| 40.000 | 13.204 | 13.207 | 0.000 | 0.000 | 184.963 | 428.857 | 185.099 | 429.144 |
| 60.000 | 13.028 | 13.029 | 0.000 | 0.000 | 442.338 | 428.857 | 442.512 | 429.144 |
| 80.000 | 13.066 | 13.067 | 0.000 | 0.000 | 692.395 | 428.857 | 692.587 | 429.144 |
| 100.000 | 13.085 | 13.086 | 0.000 | 0.000 | 954.187 | 428.857 | 954.387 | 429.144 |
| 120.000 | 13.116 | 13.119 | 0.000 | 0.000 | 1216.107 | 428.857 | 1216.346 | 429.144 |
| 140.000 | 12.894 | 12.970 | 0.000 | 0.000 | 1477.865 | 428.857 | 1478.538 | 429.144 |
| 160.000 | 13.166 | 13.166 | 0.000 | 0.000 | 1696.830 | 428.857 | 1698.443 | 429.144 |
| 180.000 | 13.311 | 13.321 | 0.000 | 0.000 | 1962.734 | 428.857 | 1964.530 | 429.144 |
| 200.000 | 13.257 | 13.266 | 0.000 | 0.000 | 2228.104 | 428.857 | 2230.043 | 429.144 |
| 220.000 | 13.134 | 13.143 | 0.000 | 0.000 | 2492.467 | 428.857 | 2494.627 | 429.144 |
| 240.000 | 12.787 | 12.798 | 0.000 | 0.000 | 2753.438 | 428.857 | 2755.819 | 429.144 |
| 260.000 | 10.799 | 10.799 | 0.000 | 0.000 | 2991.562 | 428.857 | 2994.037 | 429.144 |
| 280.000 | 12.294 | 12.294 | 0.000 | 0.000 | 3233.780 | 428.857 | 3236.257 | 429.144 |
| 300.000 | 15.079 | 15.126 | 2.168 | 2.259 | 3540.393 | 434.307 | 3543.194 | 434.864 |
| 306.318 | 6.543 | 6.543 | 0.000 | 0.000 | 3599.138 | 440.280 | 3602.071 | 441.074 |

Istram 22.11.11.15 21/11/22 11:13:48 200315
 PROYECTO :
 EJE: 28: E3 GLORIETA 2

 D E S B R O C E S

PK inicial : 0.000
 PK final : 182.212

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 8.680 | 8.691 | 12.192 | 12.221 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 1.916 | 1.916 | 19.771 | 19.780 | 156.300 | 174.164 | 156.345 | 174.253 |
| 80.000 | 0.000 | 0.000 | 13.820 | 13.820 | 184.521 | 1314.571 | 184.566 | 1314.693 |
| 100.000 | 0.000 | 0.000 | 16.384 | 16.384 | 184.521 | 1671.486 | 184.566 | 1671.611 |
| 120.000 | 8.635 | 8.650 | 8.522 | 8.571 | 326.737 | 1839.878 | 326.841 | 1840.150 |
| 140.000 | 12.407 | 12.710 | 7.684 | 7.795 | 400.519 | 2099.349 | 401.580 | 2100.420 |
| 160.000 | 7.538 | 7.685 | 10.650 | 10.684 | 650.553 | 2158.084 | 653.945 | 2159.395 |
| 180.000 | 5.691 | 5.700 | 14.065 | 14.098 | 714.385 | 2451.142 | 718.385 | 2452.887 |
| 182.212 | 8.680 | 8.691 | 12.193 | 12.222 | 730.724 | 2480.214 | 734.740 | 2482.021 |

Istram 22.11.11.15 21/11/22 11:13:48 200315
 PROYECTO :
 EJE: 29: E3 VIAL 4

 D E S B R O C E S

PK inicial : 0.000
 PK final : 356.334

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 5.343 | 5.387 | 5.272 | 5.536 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 8.588 | 8.616 | 0.000 | 0.000 | 149.633 | 136.642 | 150.795 | 160.135 |
| 40.000 | 13.491 | 13.617 | 0.000 | 0.000 | 386.637 | 136.642 | 388.987 | 160.135 |
| 60.000 | 0.000 | 0.000 | 27.015 | 27.052 | 437.471 | 456.276 | 440.363 | 482.932 |
| 80.000 | 0.000 | 0.000 | 21.944 | 22.248 | 437.471 | 959.013 | 440.363 | 987.834 |
| 100.000 | 0.000 | 0.000 | 18.479 | 18.618 | 437.471 | 1362.247 | 440.363 | 1394.914 |
| 120.000 | 0.000 | 0.000 | 15.665 | 15.750 | 437.471 | 1684.448 | 440.363 | 1718.174 |
| 140.000 | 0.000 | 0.000 | 15.165 | 15.166 | 437.471 | 1992.341 | 440.363 | 2026.526 |
| 160.000 | 0.226 | 0.252 | 14.243 | 14.376 | 438.667 | 2285.183 | 441.678 | 2320.579 |
| 180.000 | 1.120 | 1.179 | 11.453 | 11.637 | 454.794 | 2542.495 | 458.685 | 2581.215 |
| 200.000 | 8.548 | 8.738 | 7.518 | 7.663 | 569.764 | 2732.221 | 576.420 | 2774.172 |
| 220.000 | 8.990 | 9.168 | 7.090 | 7.205 | 752.050 | 2871.187 | 762.537 | 2915.769 |
| 240.000 | 4.495 | 4.549 | 11.379 | 11.510 | 889.069 | 3049.229 | 902.065 | 3096.249 |
| 260.000 | 1.163 | 1.163 | 15.553 | 15.553 | 957.377 | 3312.911 | 971.054 | 3360.460 |
| 280.000 | 1.829 | 1.829 | 14.904 | 14.904 | 988.301 | 3615.974 | 1001.978 | 3663.524 |
| 300.000 | 1.983 | 1.984 | 15.352 | 15.352 | 1028.985 | 3914.699 | 1042.663 | 3962.252 |
| 320.000 | 1.165 | 1.165 | 18.850 | 18.850 | 1061.640 | 4248.337 | 1075.318 | 4295.894 |
| 340.000 | 11.800 | 11.906 | 15.607 | 15.707 | 1138.673 | 4661.672 | 1152.790 | 4709.790 |
| 356.334 | 12.790 | 12.823 | 0.000 | 0.000 | 1428.861 | 4700.558 | 1443.411 | 4748.825 |

Istram 22.11.11.15 21/11/22 11:13:48 200315
 PROYECTO :
 EJE: 32: E3 RAMAL 5

 D E S B R O C E S

PK inicial : 0.000
 PK final : 42.623

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 25.225 | 25.234 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 24.318 | 24.319 | 0.000 | 494.544 | 0.000 | 494.596 |
| 40.000 | 0.000 | 0.000 | 9.529 | 9.529 | 0.000 | 971.745 | 0.000 | 971.806 |
| 42.623 | 0.000 | 0.000 | 12.733 | 12.734 | 0.000 | 984.338 | 0.000 | 984.461 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 PROYECTO :
 EJE: 34: E3 VIAL 5

 D E S B R O C E S

PK inicial : 0.000
 PK final : 305.098

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 10.903 | 10.917 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 10.903 | 11.014 | 2.082 | 2.083 | 179.988 | 33.878 | 182.707 | 46.037 |
| 40.000 | 12.548 | 12.626 | 2.014 | 2.014 | 414.213 | 88.485 | 418.258 | 100.703 |
| 60.000 | 0.885 | 0.942 | 13.449 | 13.700 | 574.696 | 228.972 | 580.198 | 244.662 |
| 80.000 | 0.000 | 0.000 | 14.551 | 14.602 | 581.273 | 515.191 | 587.261 | 533.396 |
| 100.000 | 3.513 | 3.524 | 9.744 | 9.756 | 598.838 | 779.711 | 604.883 | 798.432 |
| 120.000 | 1.196 | 1.196 | 12.939 | 12.939 | 883.379 | 810.616 | 889.656 | 829.346 |
| 140.000 | 5.767 | 5.767 | 7.375 | 7.375 | 969.691 | 1001.141 | 975.970 | 1019.874 |
| 160.000 | 6.984 | 6.984 | 8.746 | 8.746 | 1097.739 | 1155.193 | 1104.022 | 1173.930 |
| 180.000 | 7.900 | 7.900 | 7.512 | 7.512 | 1241.179 | 1324.545 | 1247.465 | 1343.287 |
| 200.000 | 7.736 | 7.736 | 7.661 | 7.662 | 1390.983 | 1480.468 | 1397.272 | 1499.212 |
| 220.000 | 4.755 | 4.755 | 11.536 | 11.536 | 1526.497 | 1664.141 | 1532.788 | 1682.887 |
| 240.000 | 1.912 | 1.912 | 15.133 | 15.133 | 1569.035 | 1953.818 | 1575.327 | 1972.568 |
| 260.000 | 1.330 | 1.330 | 17.257 | 17.257 | 1599.084 | 2278.746 | 1605.376 | 2297.498 |
| 280.000 | 2.170 | 2.170 | 18.161 | 18.161 | 1629.413 | 2636.950 | 1635.705 | 2655.705 |
| 300.000 | 0.000 | 0.000 | 17.392 | 17.393 | 1657.095 | 3045.151 | 1663.387 | 3063.910 |
| 303.327 | 0.000 | 0.000 | 6.125 | 6.125 | 1657.095 | 3084.227 | 1663.387 | 3102.987 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 EJE: 39: E3 VIAL 3 N-260

 D E S B R O C E S

PK inicial : 0.000
 PK final : 370.957

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 10.418 | 10.504 | 4.003 | 4.450 | 0.000 | 0.000 |
| 20.000 | 11.217 | 11.313 | 2.810 | 3.028 | 212.954 | 67.467 |
| 40.000 | 6.658 | 6.931 | 6.090 | 7.687 | 368.085 | 225.812 |
| 60.000 | 10.925 | 11.057 | 6.223 | 7.313 | 521.500 | 402.286 |
| 80.000 | 13.587 | 13.636 | 0.000 | 0.000 | 776.702 | 431.816 |
| 100.000 | 15.293 | 15.325 | 0.000 | 0.000 | 1069.749 | 431.816 |
| 120.000 | 18.583 | 18.616 | 0.000 | 0.000 | 1390.899 | 431.816 |
| 140.000 | 16.966 | 16.970 | 0.000 | 0.000 | 1757.428 | 431.816 |
| 160.000 | 14.960 | 15.001 | 0.000 | 0.000 | 2063.842 | 431.816 |
| 180.000 | 12.520 | 12.539 | 3.104 | 3.172 | 2347.278 | 447.338 |
| 200.000 | 13.541 | 13.567 | 1.827 | 1.858 | 2606.816 | 498.392 |
| 220.000 | 14.028 | 14.078 | 1.592 | 1.630 | 2898.763 | 508.790 |
| 240.000 | 13.231 | 13.314 | 2.782 | 2.903 | 3165.572 | 559.307 |
| 260.000 | 13.759 | 13.840 | 2.702 | 2.802 | 3437.165 | 614.360 |
| 280.000 | 14.053 | 14.146 | 2.151 | 2.211 | 3717.414 | 660.963 |
| 300.000 | 13.553 | 13.577 | 0.000 | 0.000 | 3997.738 | 691.667 |
| 320.000 | 13.979 | 13.994 | 0.000 | 0.000 | 4272.970 | 691.667 |
| 340.000 | 13.843 | 13.890 | 0.000 | 0.000 | 4534.569 | 691.667 |
| 360.000 | 16.964 | 17.011 | 8.613 | 8.917 | 4843.613 | 739.625 |
| 370.957 | 6.538 | 6.538 | 0.000 | 0.000 | 4979.715 | 784.289 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 EJE: 43: E3 RAMAL 2

 D E S B R O C E S

PK inicial : 0.000
 PK final : 328.617

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 17.902 | 17.902 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 12.793 | 12.794 | 0.000 | 248.831 |
| 40.000 | 0.000 | 0.000 | 13.463 | 13.464 | 0.000 | 510.698 |
| 60.000 | 0.000 | 0.000 | 14.461 | 14.464 | 0.000 | 790.131 |
| 80.000 | 0.000 | 0.000 | 16.231 | 16.232 | 0.000 | 1094.011 |
| 100.000 | 0.000 | 0.000 | 20.312 | 20.312 | 0.000 | 1460.586 |
| 120.000 | 0.000 | 0.000 | 23.900 | 23.900 | 0.000 | 1902.757 |
| 140.000 | 0.000 | 0.000 | 28.402 | 28.402 | 0.000 | 2423.729 |
| 160.000 | 0.000 | 0.000 | 33.137 | 33.137 | 0.000 | 3047.875 |
| 180.000 | 0.000 | 0.000 | 34.905 | 34.905 | 0.000 | 3729.543 |
| 200.000 | 0.000 | 0.000 | 35.754 | 35.754 | 0.000 | 4437.025 |
| 220.000 | 0.000 | 0.000 | 33.694 | 33.694 | 0.000 | 5147.338 |
| 240.000 | 0.000 | 0.000 | 27.383 | 27.394 | 0.000 | 5755.419 |
| 260.000 | 0.000 | 0.000 | 22.014 | 22.177 | 0.000 | 6248.693 |
| 265.492 | 0.000 | 0.000 | 22.767 | 23.326 | 0.000 | 6372.607 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 EJE: 44: E3 RAMAL 1

 D E S B R O C E S

PK inicial : 0.000
 PK final : 367.345

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 161.122 | 0.000 | 0.000 | 23.104 | 24.221 | 0.000 | 0.000 |
| 180.000 | 0.000 | 0.000 | 32.703 | 33.707 | 0.000 | 546.230 |
| 200.000 | 1.165 | 1.165 | 42.046 | 42.047 | 25.565 | 1288.072 |
| 220.000 | 1.159 | 1.159 | 38.183 | 38.184 | 59.554 | 2080.340 |
| 240.000 | 1.168 | 1.168 | 32.566 | 32.568 | 85.533 | 2792.211 |
| 260.000 | 1.916 | 1.916 | 24.709 | 24.710 | 120.840 | 3355.890 |
| 280.000 | 2.167 | 2.167 | 19.177 | 19.180 | 157.673 | 3795.570 |
| 300.000 | 1.165 | 1.165 | 17.092 | 17.092 | 191.848 | 4158.100 |
| 320.000 | 1.165 | 1.165 | 15.577 | 15.577 | 224.159 | 4472.658 |
| 340.000 | 2.165 | 2.165 | 13.923 | 13.923 | 261.240 | 4763.973 |
| 360.000 | 1.520 | 1.520 | 13.996 | 13.996 | 301.327 | 5039.902 |
| 367.345 | 0.000 | 0.000 | 19.001 | 19.010 | 313.741 | 5140.694 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 PROYECTO :
 EJE: 45: CAMINO MD_04

 D E S B R O C E S

PK inicial : 0.000
 PK final : 570.856

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 539.357 | 9.160 | 9.160 | 0.000 | 0.000 | 0.000 | 0.000 |
| 540.000 | 9.167 | 9.167 | 0.000 | 0.000 | 5.892 | 0.000 |
| 560.000 | 8.166 | 8.166 | 0.197 | 0.197 | 186.510 | 0.727 |
| 570.856 | 0.521 | 0.521 | 0.701 | 0.701 | 270.664 | 2.986 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 PROYECTO :
 EJE: 47: CE 1.1 CD

 D E S B R O C E S

PK inicial : 0.000
 PK final : 370.376

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 1.298 | 1.300 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 6.716 | 6.718 | 0.000 | 0.000 | 108.202 | 0.000 |
| 40.000 | 6.870 | 6.872 | 0.000 | 0.000 | 243.702 | 0.000 |
| 60.000 | 6.766 | 6.766 | 0.000 | 0.000 | 380.426 | 0.000 |
| 80.000 | 6.770 | 6.771 | 0.000 | 0.000 | 512.983 | 0.000 |
| 100.000 | 6.685 | 6.686 | 0.000 | 0.000 | 648.689 | 0.000 |
| 120.000 | 6.534 | 6.536 | 0.000 | 0.000 | 780.764 | 0.000 |
| 140.000 | 6.172 | 6.175 | 0.000 | 0.000 | 908.899 | 0.000 |
| 160.000 | 4.766 | 4.766 | 2.243 | 2.243 | 1026.406 | 11.216 |
| 180.000 | 8.153 | 8.154 | 0.000 | 0.000 | 1182.792 | 22.432 |
| 200.000 | 6.541 | 6.541 | 0.000 | 0.000 | 1323.340 | 22.432 |
| 220.000 | 6.425 | 6.425 | 0.000 | 0.000 | 1451.981 | 22.433 |
| 240.000 | 6.460 | 6.460 | 0.000 | 0.000 | 1581.526 | 22.433 |
| 260.000 | 6.411 | 6.411 | 0.000 | 0.000 | 1711.050 | 22.433 |
| 280.000 | 6.491 | 6.491 | 0.000 | 0.000 | 1840.809 | 22.433 |
| 300.000 | 6.418 | 6.418 | 0.000 | 0.000 | 1972.030 | 22.433 |
| 340.000 | 6.764 | 6.776 | 0.000 | 0.000 | 2235.336 | 22.433 |
| 360.000 | 7.429 | 7.434 | 0.000 | 0.000 | 2370.978 | 22.433 |
| 370.376 | 6.746 | 6.748 | 0.000 | 0.000 | 2444.353 | 22.433 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 PROYECTO :
 EJE: 49: CE 2.4 CD

 D E S B R O C E S

PK inicial : 0.000
 PK final : 65.804

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 18.482 | 8.542 | 8.575 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 8.538 | 8.568 | 0.000 | 0.000 | 12.964 | 0.000 |
| 40.000 | 8.590 | 8.590 | 0.000 | 0.000 | 183.582 | 0.000 |
| 60.000 | 8.536 | 8.536 | 0.000 | 0.000 | 352.830 | 0.000 |
| 65.804 | 3.511 | 3.511 | 0.000 | 0.000 | 405.482 | 0.000 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 PROYECTO :
 EJE: 50: CE 2.5 CD (PI 2.4)

*** DESBROCES ***

PK inicial : 0.000
 PK final : 216.314

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.000 | 8.867 | 8.870 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60.000 | 8.811 | 8.811 | 0.000 | 0.000 | 175.814 | 0.000 | 175.839 | 0.000 |
| 80.000 | 8.592 | 8.592 | 0.000 | 0.000 | 350.145 | 0.000 | 350.177 | 0.000 |
| 100.000 | 8.172 | 8.172 | 0.000 | 0.000 | 517.952 | 0.000 | 517.985 | 0.000 |
| 120.000 | 6.943 | 6.943 | 0.000 | 0.000 | 672.983 | 0.000 | 673.017 | 0.000 |
| 140.000 | 6.115 | 6.115 | 0.000 | 0.000 | 807.034 | 0.000 | 807.069 | 0.000 |
| 160.000 | 6.664 | 6.664 | 0.000 | 0.000 | 935.258 | 0.000 | 935.294 | 0.000 |
| 180.000 | 1.676 | 1.722 | 5.044 | 5.068 | 1048.428 | 22.381 | 1048.668 | 22.491 |
| 200.000 | 6.475 | 6.505 | 0.000 | 0.000 | 1146.479 | 68.887 | 1148.046 | 69.485 |
| 206.003 | 6.533 | 6.571 | 0.000 | 0.000 | 1185.525 | 68.887 | 1187.294 | 69.485 |

Istram 22.11.11.15 21/11/22 11:13:49 200315
 PROYECTO :
 EJE: 51: REPOSICION GI-8593

*** DESBROCES ***

PK inicial : 0.000
 PK final : 311.522

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 7.423 | 7.426 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 7.338 | 7.367 | 0.000 | 0.000 | 142.781 | 0.000 | 143.138 | 0.000 |
| 40.000 | 7.344 | 7.370 | 0.000 | 0.000 | 287.947 | 0.000 | 288.764 | 0.000 |
| 60.000 | 4.290 | 4.306 | 3.350 | 3.382 | 424.027 | 14.056 | 425.448 | 14.188 |
| 80.000 | 1.548 | 1.548 | 6.732 | 6.732 | 470.630 | 127.236 | 472.115 | 127.798 |
| 100.000 | 3.080 | 3.080 | 4.861 | 4.861 | 510.663 | 249.761 | 512.149 | 250.323 |
| 120.000 | 7.281 | 7.281 | 0.000 | 0.000 | 640.521 | 271.726 | 642.009 | 272.289 |
| 140.000 | 7.221 | 7.221 | 0.000 | 0.000 | 785.471 | 271.726 | 786.961 | 272.289 |
| 160.000 | 7.176 | 7.177 | 0.000 | 0.000 | 927.634 | 271.726 | 929.129 | 272.289 |
| 180.000 | 7.611 | 7.611 | 0.000 | 0.000 | 1075.154 | 271.726 | 1076.655 | 272.289 |
| 200.000 | 0.017 | 0.017 | 8.119 | 8.119 | 1138.992 | 366.172 | 1140.494 | 366.736 |
| 220.000 | 2.139 | 2.139 | 6.046 | 6.047 | 1161.910 | 506.775 | 1163.412 | 507.341 |
| 240.000 | 1.317 | 1.317 | 6.478 | 6.574 | 1195.172 | 637.905 | 1196.674 | 638.839 |
| 260.000 | 6.454 | 6.533 | 1.221 | 1.283 | 1279.500 | 707.790 | 1281.857 | 710.244 |
| 280.000 | 7.311 | 7.463 | 0.768 | 0.802 | 1421.240 | 721.248 | 1425.873 | 724.455 |
| 300.000 | 6.925 | 6.967 | 0.041 | 0.042 | 1562.136 | 730.347 | 1568.518 | 733.890 |
| 311.522 | 6.769 | 6.785 | 0.000 | 0.000 | 1640.602 | 730.528 | 1647.279 | 734.076 |

Istram 22.11.11.15 21/11/22 11:13:50 200315
 PROYECTO :
 EJE: 52: CE 3.5 CD

*** DESBROCES ***

PK inicial : 0.000
 PK final : 1357.779

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|----------|-----------------|--------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.511 | 0.511 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 6.212 | 6.212 | 60.274 | 76.803 | 60.280 | 76.829 |
| 40.000 | 3.719 | 3.719 | 2.144 | 2.144 | 98.835 | 157.928 | 98.841 | 157.954 |
| 60.000 | 5.582 | 5.582 | 0.000 | 0.000 | 205.898 | 163.756 | 205.907 | 163.782 |
| 80.000 | 5.323 | 5.324 | 0.000 | 0.000 | 315.903 | 163.756 | 315.923 | 163.782 |
| 100.000 | 6.236 | 6.236 | 0.000 | 0.000 | 437.427 | 163.756 | 437.455 | 163.782 |
| 120.000 | 6.514 | 6.515 | 0.000 | 0.000 | 558.818 | 163.756 | 558.853 | 163.782 |
| 140.000 | 5.597 | 5.602 | 0.000 | 0.000 | 684.608 | 163.756 | 684.675 | 163.782 |
| 160.000 | 5.622 | 5.622 | 0.000 | 0.000 | 797.169 | 163.756 | 797.261 | 163.782 |
| 180.000 | 5.535 | 5.535 | 0.000 | 0.000 | 908.924 | 163.756 | 909.017 | 163.782 |
| 200.000 | 5.484 | 5.484 | 0.000 | 0.000 | 1018.711 | 163.756 | 1018.806 | 163.782 |
| 220.000 | 4.111 | 4.111 | 1.678 | 1.678 | 1123.611 | 171.366 | 1123.709 | 171.392 |
| 240.000 | 2.110 | 2.110 | 6.111 | 6.111 | 1196.508 | 258.550 | 1196.607 | 258.576 |
| 260.000 | 4.816 | 4.816 | 3.281 | 3.281 | 1266.962 | 351.493 | 1267.065 | 351.523 |
| 280.000 | 4.824 | 4.824 | 3.235 | 3.235 | 1348.541 | 431.974 | 1348.645 | 432.006 |
| 300.000 | 6.734 | 6.734 | 1.000 | 1.000 | 1466.468 | 472.913 | 1466.573 | 472.944 |
| 320.000 | 6.764 | 6.764 | 0.588 | 0.588 | 1602.134 | 487.008 | 1602.240 | 487.040 |
| 340.000 | 6.830 | 6.831 | 0.853 | 0.853 | 1746.034 | 494.214 | 1746.140 | 494.246 |
| 360.000 | 6.639 | 6.639 | 0.933 | 0.933 | 1889.012 | 503.145 | 1889.122 | 503.177 |
| 380.000 | 7.274 | 7.274 | 0.614 | 0.614 | 2032.275 | 512.548 | 2032.388 | 512.581 |
| 400.000 | 3.765 | 3.765 | 4.317 | 4.318 | 2130.305 | 574.965 | 2130.420 | 574.998 |
| 420.000 | 7.063 | 7.063 | 2.187 | 2.187 | 2238.725 | 646.468 | 2238.842 | 646.502 |
| 440.000 | 8.249 | 8.249 | 0.960 | 0.960 | 2406.733 | 662.200 | 2406.853 | 662.235 |
| 460.000 | 4.354 | 4.354 | 5.095 | 5.095 | 2529.440 | 727.251 | 2529.564 | 727.288 |
| 480.000 | 6.122 | 6.122 | 3.218 | 3.218 | 2647.465 | 797.065 | 2647.589 | 797.103 |
| 500.000 | 9.123 | 9.123 | 0.839 | 0.839 | 2808.004 | 824.850 | 2808.132 | 824.888 |
| 520.000 | 10.945 | 10.948 | 0.000 | 0.000 | 3010.442 | 829.045 | 3010.591 | 829.083 |
| 540.000 | 7.857 | 7.857 | 1.000 | 1.000 | 3210.117 | 832.980 | 3210.280 | 833.018 |
| 560.000 | 8.012 | 8.012 | 1.000 | 1.000 | 3379.426 | 842.980 | 3379.592 | 843.019 |
| 580.000 | 8.951 | 8.952 | 0.000 | 0.000 | 3544.448 | 857.981 | 3544.619 | 858.019 |
| 600.000 | 8.934 | 8.934 | 0.000 | 0.000 | 3723.339 | 857.981 | 3723.514 | 858.019 |
| 620.000 | 9.029 | 9.029 | 0.000 | 0.000 | 3898.048 | 862.647 | 3898.229 | 862.686 |
| 640.000 | 7.981 | 7.981 | 1.000 | 1.000 | 4073.711 | 866.442 | 4073.899 | 866.481 |
| 660.000 | 8.087 | 8.087 | 1.000 | 1.000 | 4242.452 | 877.494 | 4242.649 | 877.534 |
| 680.000 | 7.917 | 7.919 | 1.000 | 1.000 | 4415.386 | 884.818 | 4415.606 | 884.858 |
| 700.000 | 3.495 | 3.495 | 6.350 | 6.350 | 4507.639 | 982.571 | 4507.917 | 982.664 |
| 720.000 | 3.492 | 3.492 | 6.322 | 6.322 | 4570.738 | 1116.138 | 4571.016 | 1116.232 |
| 740.000 | 2.499 | 2.499 | 7.330 | 7.330 | 4632.994 | 1250.124 | 4633.273 | 1250.221 |
| 760.000 | 4.649 | 4.649 | 4.802 | 4.802 | 4693.741 | 1382.358 | 4694.020 | 1382.455 |
| 780.000 | 6.765 | 6.765 | 2.499 | 2.499 | 4818.901 | 1443.872 | 4819.184 | 1443.970 |
| 800.000 | 7.518 | 7.518 | 1.680 | 1.680 | 4963.417 | 1483.971 | 4963.704 | 1484.071 |
| 820.000 | 9.135 | 9.135 | 0.000 | 0.000 | 5127.048 | 1503.662 | 5127.340 | 1503.763 |
| 840.000 | 9.000 | 9.000 | 0.071 | 0.071 | 5304.918 | 1507.353 | 5305.215 | 1507.453 |
| 860.000 | 8.526 | 8.527 | 0.690 | 0.690 | 5481.967 | 1513.355 | 5482.266 | 1513.456 |
| 880.000 | 3.813 | 3.813 | 5.765 | 5.765 | 5602.062 | 1581.457 | 5602.362 | 1581.558 |
| 900.000 | 3.546 | 3.546 | 6.051 | 6.051 | 5662.931 | 1713.622 | 5663.232 | 1713.724 |
| 920.000 | 4.238 | 4.238 | 5.309 | 5.309 | 5744.561 | 1823.161 | 5744.862 | 1823.264 |
| 940.000 | 2.751 | 2.751 | 6.925 | 6.925 | 5816.485 | 1942.945 | 5816.786 | 1943.049 |
| 960.000 | 2.624 | 2.624 | 7.151 | 7.151 | 5873.923 | 2080.251 | 5874.224 | 2080.355 |
| 980.000 | 3.499 | 3.499 | 6.330 | 6.330 | 5929.526 | 2220.692 | 5929.827 | 2220.796 |
| 1000.000 | 3.326 | 3.326 | 6.499 | 6.499 | 5988.638 | 2358.408 | 5988.940 | 2358.513 |
| 1020.000 | 2.921 | 2.921 | 6.920 | 6.920 | 6048.032 | 2495.878 | 6048.334 | 2495.983 |
| 1040.000 | 3.222 | 3.222 | 6.513 | 6.513 | 6108.908 | 2630.865 | 6109.210 | 2630.972 |
| 1060.000 | 3.359 | 3.362 | 6.483 | 6.487 | 6170.100 | 2764.627 | 6170.419 | 2764.755 |
| 1080.000 | 2.954 | 2.954 | 7.252 | 7.252 | 6227.148 | 2904.185 | 6227.494 | 2904.769 |
| 1100.000 | 3.489 | 3.489 | 6.491 | 6.492 | 6281.691 | 3051.262 | 6282.038 | 3051.850 |
| 1120.000 | 3.414 | 3.414 | 6.414 | 6.414 | 6349.219 | 3181.708 | 6349.568 | 3182.298 |
| 1140.000 | 3.508 | 3.508 | 6.265 | 6.265 | 6418.907 | 3308.128 | 6419.257 | 3308.720 |
| 1160.000 | 8.083 | 8.083 | 1.000 | 1.000 | 6567.030 | 3344.453 | 6567.396 | 3345.045 |
| 1180.000 | 7.950 | 7.950 | 1.000 | 1.000 | 6736.204 | 3355.758 | 6736.570 | 3356.349 |
| 1200.000 | 9.104 | 9.104 | 0.000 | 0.000 | 6901.854 | 3369.647 | 6902.222 | 3370.239 |
| 1240.000 | 3.079 | 3.079 | 6.635 | 6.636 | 7145.514 | 3502.357 | 7145.890 | 3502.959 |
| 1260.000 | 8.128 | 8.128 | 1.000 | 1.000 | 7292.062 | 3541.081 | 7292.472 | 3541.687 |
| 1280.000 | 8.023 | 8.023 | 1.000 | 1.000 | 7461.873 | 3552.503 | 7462.286 | 3553.109 |
| 1300.000 | 6.158 | 6.158 | 3.224 | 3.224 | 7622.548 | 3576.304 | 7622.962 | 3576.910 |
| 1320.000 | 3.121 | 3.122 | 6.772 | 6.772 | 7696.333 | 3695.228 | 7696.748 | 3695.834 |
| 1340.000 | 3.328 | 3.328 | 6.652 | 6.652 | 7755.500 | 3835.710 | 7755.914 | 3836.316 |
| 1357.779 | 0.000 | 0.000 | 0.000 | 0.000 | 7844.679 | 3926.083 | 7845.095 | 3926.690 |

Istram 22.11.11.15 21/11/22 11:13:50 200315
 EJE: 53: CE 4.8 CD

***** DESBROCES *****

PK inicial : 0.000
 PK final : 448.321

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 20.423 | 20.426 | 0.684 | 0.684 | 0.000 | 0.000 |
| 20.000 | 3.028 | 3.028 | 7.018 | 7.018 | 92.172 | 124.422 |
| 40.000 | 5.046 | 5.046 | 4.340 | 4.340 | 164.553 | 246.196 |
| 60.000 | 8.949 | 8.949 | 0.000 | 0.000 | 325.082 | 267.895 |
| 80.000 | 8.794 | 8.794 | 0.378 | 0.378 | 495.909 | 277.969 |
| 100.000 | 8.698 | 8.698 | 0.445 | 0.445 | 675.721 | 280.854 |
| 120.000 | 8.764 | 8.764 | 0.172 | 0.172 | 843.967 | 293.940 |
| 140.000 | 7.875 | 7.875 | 1.000 | 1.000 | 1016.249 | 299.801 |
| 160.000 | 7.987 | 7.987 | 1.000 | 1.000 | 1175.169 | 317.377 |
| 180.000 | 7.965 | 7.965 | 0.824 | 0.824 | 1338.147 | 334.590 |
| 200.000 | 8.840 | 8.840 | 0.000 | 0.000 | 1506.197 | 342.826 |
| 220.000 | 7.718 | 7.719 | 1.377 | 1.377 | 1668.571 | 359.709 |
| 240.000 | 7.945 | 7.946 | 1.000 | 1.000 | 1836.948 | 372.715 |
| 260.000 | 8.941 | 8.942 | 0.077 | 0.077 | 2001.263 | 388.100 |
| 280.000 | 8.001 | 8.001 | 0.902 | 0.902 | 2165.196 | 402.996 |
| 300.000 | 8.981 | 8.987 | 0.000 | 0.000 | 2336.266 | 411.567 |
| 320.000 | 8.937 | 8.937 | 0.000 | 0.000 | 2511.642 | 415.605 |
| 340.000 | 7.812 | 7.813 | 1.000 | 1.000 | 2679.966 | 424.695 |
| 360.000 | 9.575 | 9.577 | 0.385 | 0.385 | 2840.977 | 441.218 |
| 380.000 | 8.111 | 8.111 | 0.889 | 0.889 | 3008.761 | 453.359 |
| 400.000 | 8.646 | 8.647 | 1.000 | 1.000 | 3179.302 | 464.804 |
| 420.000 | 7.995 | 7.995 | 1.000 | 1.000 | 3346.923 | 481.241 |
| 440.000 | 10.009 | 10.010 | 0.000 | 0.000 | 3511.872 | 498.643 |
| 447.848 | 9.541 | 9.543 | 0.556 | 0.556 | 3590.526 | 498.998 |

Istram 22.11.11.15 21/11/22 11:13:50 200315
 EJE: 54: CE 5.4 CD

***** DESBROCES *****

PK inicial : 0.000
 PK final : 324.426

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 7.661 | 7.735 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 7.311 | 7.389 | 0.000 | 0.000 | 149.184 | 0.000 |
| 40.000 | 0.000 | 0.000 | 0.000 | 0.000 | 149.184 | 0.000 |
| 60.000 | 0.000 | 0.000 | 0.000 | 0.000 | 149.184 | 0.000 |
| 80.000 | 5.750 | 6.001 | 4.256 | 4.457 | 217.750 | 31.017 |
| 100.000 | 3.799 | 4.196 | 6.137 | 6.386 | 312.816 | 134.275 |
| 120.000 | 4.336 | 4.544 | 4.982 | 5.172 | 397.931 | 256.192 |
| 140.000 | 5.570 | 5.886 | 0.000 | 0.000 | 480.424 | 328.439 |
| 160.000 | 5.482 | 5.482 | 0.000 | 0.000 | 609.639 | 328.439 |
| 180.000 | 8.342 | 8.421 | 0.000 | 0.000 | 743.314 | 328.439 |
| 200.000 | 4.476 | 4.491 | 1.128 | 1.132 | 841.615 | 357.819 |
| 220.000 | 4.193 | 4.349 | 4.472 | 4.517 | 941.804 | 415.333 |
| 240.000 | 1.919 | 1.937 | 5.349 | 5.522 | 959.218 | 545.651 |
| 260.000 | 6.645 | 6.674 | 0.000 | 0.000 | 1047.348 | 601.908 |
| 280.000 | 6.926 | 6.974 | 0.000 | 0.000 | 1193.353 | 601.908 |
| 300.000 | 6.427 | 6.519 | 1.295 | 1.297 | 1318.030 | 626.677 |
| 320.000 | 7.814 | 7.908 | 0.000 | 0.000 | 1462.035 | 639.028 |
| 324.426 | 7.813 | 7.912 | 0.000 | 0.000 | 1496.617 | 639.028 |

Istram 22.11.11.15 21/11/22 11:13:50 200315
 EJE: 55: CE 5.4 CI

***** DESBROCES *****

PK inicial : 0.000
 PK final : 217.187

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 17.136 | 17.164 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 8.389 | 8.458 | 0.000 | 0.000 | 188.940 | 0.000 |
| 40.000 | 6.203 | 6.203 | 0.000 | 0.000 | 324.349 | 0.000 |
| 60.000 | 12.137 | 12.341 | 0.000 | 0.000 | 486.765 | 0.000 |
| 80.000 | 5.447 | 5.447 | 0.000 | 0.000 | 706.175 | 0.000 |
| 100.000 | 5.457 | 5.457 | 0.000 | 0.000 | 816.396 | 0.000 |
| 120.000 | 5.298 | 5.298 | 0.000 | 0.000 | 924.936 | 0.000 |
| 140.000 | 6.445 | 6.445 | 0.000 | 0.000 | 1042.859 | 0.000 |
| 160.000 | 0.000 | 0.000 | 6.099 | 6.099 | 1100.903 | 62.331 |
| 180.000 | 5.588 | 5.588 | 0.000 | 0.000 | 1171.651 | 108.256 |
| 200.000 | 6.488 | 6.488 | 0.000 | 0.000 | 1285.835 | 108.256 |
| 217.187 | 6.368 | 6.368 | 0.000 | 0.000 | 1396.051 | 108.256 |

Istram 22.11.11.15 21/11/22 11:13:50 200315
 PROYECTO :
 EJE: 56: CE 6.2 CI

***** DESBROCES *****

PK inicial : 0.000
 PK final : 452.593

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 1.763 | 1.764 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 10.388 | 10.391 | 0.205 | 0.205 | 193.353 | 3.257 |
| 40.000 | 9.345 | 9.353 | 0.000 | 0.000 | 386.180 | 6.315 |
| 60.000 | 10.247 | 10.271 | 0.000 | 0.000 | 581.503 | 6.315 |
| 80.000 | 8.349 | 8.420 | 0.000 | 0.000 | 740.899 | 51.637 |
| 100.000 | 9.006 | 9.008 | 0.000 | 0.000 | 923.642 | 53.230 |
| 120.000 | 7.149 | 7.151 | 0.525 | 0.525 | 1074.412 | 62.845 |
| 140.000 | 7.154 | 7.154 | 0.483 | 0.483 | 1215.994 | 73.581 |
| 160.000 | 6.622 | 6.622 | 1.000 | 1.000 | 1354.997 | 87.778 |
| 180.000 | 7.542 | 7.542 | 0.000 | 0.000 | 1494.872 | 99.077 |
| 200.000 | 7.387 | 7.387 | 0.111 | 0.111 | 1638.096 | 106.535 |
| 220.000 | 7.457 | 7.457 | 0.000 | 0.000 | 1777.731 | 115.966 |
| 240.000 | 6.572 | 6.572 | 0.957 | 0.957 | 1914.463 | 128.369 |
| 260.000 | 1.829 | 1.829 | 6.473 | 6.474 | 2014.581 | 185.295 |
| 280.000 | 2.728 | 2.728 | 6.667 | 6.667 | 2049.651 | 330.175 |
| 300.000 | 3.892 | 3.892 | 4.895 | 4.895 | 2105.546 | 457.124 |
| 320.000 | 8.423 | 8.423 | 0.000 | 0.000 | 2256.054 | 476.612 |
| 340.000 | 8.457 | 8.457 | 0.000 | 0.000 | 2416.122 | 485.640 |
| 360.000 | 7.183 | 7.183 | 1.000 | 1.000 | 2571.719 | 495.758 |
| 380.000 | 7.749 | 7.749 | 0.405 | 0.405 | 2727.821 | 503.653 |
| 400.000 | 8.321 | 8.321 | 0.995 | 0.995 | 2900.565 | 512.889 |
| 420.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2978.774 | 517.026 |
| 440.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2978.774 | 517.026 |
| 452.593 | 0.000 | 0.000 | 0.000 | 0.000 | 2978.774 | 517.026 |

Istram 22.11.11.15 21/11/22 11:13:50 200315
 PROYECTO :
 EJE: 57: CE 7.4 CD

***** DESBROCES *****

PK inicial : 0.000
 PK final : 691.469

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 1.803 | 1.803 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 8.359 | 8.359 | 0.346 | 0.346 | 177.150 | 10.080 |
| 40.000 | 8.651 | 8.652 | 1.000 | 1.000 | 337.996 | 28.538 |
| 60.000 | 8.782 | 8.782 | 0.056 | 0.056 | 505.707 | 40.853 |
| 80.000 | 8.504 | 8.508 | 0.719 | 0.719 | 672.645 | 53.392 |
| 100.000 | 8.400 | 8.407 | 0.522 | 0.522 | 822.775 | 84.674 |
| 120.000 | 8.761 | 8.761 | 0.333 | 0.333 | 996.455 | 91.676 |
| 140.000 | 8.982 | 8.982 | 0.000 | 0.000 | 1175.468 | 93.343 |
| 160.000 | 8.723 | 8.723 | 0.278 | 0.278 | 1353.496 | 94.732 |
| 180.000 | 8.021 | 8.021 | 1.000 | 1.000 | 1525.075 | 102.388 |
| 200.000 | 9.207 | 9.207 | 0.000 | 0.000 | 1693.177 | 116.729 |
| 220.000 | 6.491 | 6.491 | 2.466 | 2.466 | 1850.593 | 138.570 |
| 240.000 | 4.569 | 4.569 | 4.582 | 4.583 | 1954.846 | 215.620 |
| 260.000 | 9.009 | 9.009 | 0.000 | 0.000 | 2109.122 | 240.472 |
| 280.000 | 7.981 | 7.981 | 1.000 | 1.000 | 2283.395 | 246.041 |
| 300.000 | 8.957 | 8.957 | 0.000 | 0.000 | 2457.741 | 251.042 |
| 320.000 | 7.772 | 7.772 | 1.000 | 1.000 | 2634.462 | 251.578 |
| 340.000 | 8.099 | 8.100 | 0.546 | 0.546 | 2791.739 | 268.298 |
| 360.000 | 7.368 | 7.368 | 1.000 | 1.000 | 2953.341 | 276.434 |
| 380.000 | 7.913 | 7.913 | 0.917 | 0.917 | 3107.179 | 294.420 |
| 400.000 | 4.804 | 4.805 | 4.192 | 4.192 | 3203.498 | 377.527 |
| 420.000 | 6.080 | 6.080 | 2.887 | 2.888 | 3308.761 | 452.185 |
| 440.000 | 9.218 | 9.397 | 0.000 | 0.000 | 3475.204 | 474.013 |
| 460.000 | 7.491 | 7.530 | 1.962 | 2.009 | 3633.263 | 483.822 |
| 480.000 | 7.880 | 7.880 | 1.000 | 1.000 | 3800.878 | 498.632 |
| 500.000 | 6.912 | 6.912 | 2.292 | 2.292 | 3953.863 | 526.808 |
| 520.000 | 6.219 | 6.219 | 3.000 | 3.000 | 4081.124 | 584.338 |
| 540.000 | 8.071 | 8.071 | 1.000 | 1.000 | 4234.725 | 613.459 |
| 560.000 | 9.036 | 9.036 | 0.000 | 0.000 | 4400.430 | 628.460 |
| 580.000 | 6.588 | 6.588 | 2.518 | 2.518 | 4559.601 | 650.987 |
| 600.000 | 4.361 | 4.362 | 4.781 | 4.781 | 4678.038 | 715.083 |
| 620.000 | 9.089 | 9.090 | 0.000 | 0.000 | 4798.453 | 775.646 |
| 640.000 | 8.901 | 8.901 | 0.464 | 0.464 | 4979.761 | 777.968 |
| 660.000 | 3.903 | 3.908 | 5.728 | 5.743 | 5131.491 | 816.485 |
| 680.000 | 9.557 | 9.564 | 0.174 | 0.174 | 5272.882 | 862.322 |
| 691.469 | 1.787 | 1.787 | 0.000 | 0.000 | 5381.943 | 866.563 |

Istram 22.11.11.15 21/11/22 11:13:50 200315
 PROYECTO :
 EJE: 58: C ACCESO (PI 3.7)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 52.738

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|---------------------|---------------------|----------------------------|---------------------|---------------------|---------------------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- |
| 0.000 | 4.211 | 4.212 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 0.000 | 0.000 | 194.889 | 0.000 |
| 40.000 | 7.083 | 7.093 | 0.000 | 0.000 | 248.868 | 0.000 |
| 52.738 | 2.856 | 2.856 | 0.000 | 0.000 | 384.596 | 2.004 |

Istram 22.11.11.15 21/11/22 11:13:51 200315
 PROYECTO :
 EJE: 59: C ACCESO (PI 4.5)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 54.639

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|---------------------|---------------------|----------------------------|---------------------|---------------------|---------------------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- |
| 0.000 | 15.314 | 15.319 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 0.000 | 0.000 | 75.026 | 0.000 |
| 40.000 | 5.311 | 5.326 | 0.000 | 0.000 | 98.540 | 0.000 |
| 54.639 | 0.401 | 0.401 | 15.613 | 15.614 | 139.614 | 54.606 |

Istram 22.11.11.15 21/11/22 11:13:51 200315
 PROYECTO :
 EJE: 60: PI 7.6 (Camino)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 55.291

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|---------------------|---------------------|----------------------------|---------------------|---------------------|---------------------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- |
| 0.000 | 17.173 | 17.174 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 0.000 | 0.000 | 160.026 | 0.000 |
| 40.000 | 5.516 | 5.516 | 0.000 | 0.000 | 258.639 | 0.000 |
| 55.291 | 15.508 | 15.508 | 0.000 | 0.000 | 352.330 | 0.000 |

Istram 22.11.11.15 21/11/22 11:13:51 200315
 PROYECTO :
 EJE: 61: CE 6.2 CD

 D E S B R O C E S

PK inicial : 0.000
 PK final : 134.573

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|---------------------|---------------------|----------------------------|---------------------|---------------------|---------------------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- |
| 0.000 | 16.457 | 16.457 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 5.138 | 5.138 | 0.000 | 0.000 | 151.652 | 0.000 |
| 40.000 | 5.601 | 5.601 | 0.000 | 0.000 | 260.066 | 0.000 |
| 60.000 | 5.597 | 5.597 | 0.000 | 0.000 | 372.215 | 0.000 |
| 80.000 | 5.684 | 5.685 | 0.000 | 0.000 | 484.763 | 0.000 |
| 100.000 | 3.735 | 3.735 | 2.115 | 2.115 | 585.919 | 14.100 |
| 120.000 | 5.967 | 5.983 | 0.000 | 0.000 | 690.340 | 23.898 |
| 134.573 | 3.131 | 3.183 | 0.000 | 0.000 | 751.937 | 23.898 |

Istram 22.11.11.15 21/11/22 11:13:51 200315
 EJE: 62: CE 7.4 CI

 D E S B R O C E S

PK inicial : 0.000
 PK final : 674.456

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|---------------------|---------------------|----------------------------|---------------------|---------------------|---------------------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- |
| 0.000 | 2.209 | 2.209 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 2.199 | 2.240 | 6.825 | 6.842 | 151.092 | 44.495 |
| 40.000 | 3.471 | 3.502 | 5.329 | 5.338 | 206.669 | 165.801 |
| 60.000 | 2.633 | 2.665 | 6.188 | 6.203 | 268.236 | 280.520 |
| 80.000 | 5.228 | 5.260 | 3.475 | 3.477 | 340.227 | 385.873 |
| 100.000 | 8.732 | 8.733 | 0.000 | 0.000 | 505.418 | 398.286 |
| 120.000 | 8.430 | 8.431 | 0.385 | 0.385 | 672.277 | 406.695 |
| 140.000 | 9.575 | 9.575 | 0.313 | 0.313 | 851.212 | 419.238 |
| 160.000 | 6.133 | 6.133 | 4.009 | 4.009 | 1019.475 | 452.078 |
| 180.000 | 7.279 | 7.282 | 3.095 | 3.095 | 1161.552 | 514.587 |
| 200.000 | 6.056 | 6.057 | 4.493 | 4.495 | 1260.551 | 626.737 |
| 220.000 | 6.260 | 6.286 | 4.112 | 4.125 | 1380.144 | 715.352 |
| 240.000 | 4.171 | 4.203 | 5.868 | 5.896 | 1494.994 | 814.185 |
| 260.000 | 2.059 | 2.063 | 5.079 | 5.091 | 1581.254 | 927.277 |
| 280.000 | 6.950 | 6.956 | 3.287 | 3.293 | 1687.806 | 970.356 |
| 300.000 | 7.485 | 7.493 | 2.212 | 2.218 | 1842.337 | 1015.289 |
| 320.000 | 9.545 | 9.545 | 0.000 | 0.000 | 1989.588 | 1061.569 |
| 340.000 | 9.659 | 9.660 | 0.000 | 0.000 | 2169.274 | 1073.174 |
| 360.000 | 9.432 | 9.448 | 0.250 | 0.250 | 2354.980 | 1079.407 |
| 380.000 | 8.757 | 8.758 | 1.000 | 1.000 | 2536.506 | 1089.124 |
| 400.000 | 6.764 | 6.778 | 3.005 | 3.005 | 2681.642 | 1143.662 |
| 420.000 | 8.273 | 8.285 | 1.500 | 1.500 | 2827.343 | 1193.743 |
| 440.000 | 9.243 | 9.245 | 0.444 | 0.444 | 3011.679 | 1204.273 |
| 460.000 | 8.892 | 8.901 | 1.000 | 1.000 | 3198.289 | 1213.042 |
| 480.000 | 9.171 | 9.179 | 1.162 | 1.162 | 3381.642 | 1231.778 |
| 500.000 | 10.602 | 10.638 | 0.000 | 0.000 | 3543.599 | 1279.859 |
| 520.000 | 9.831 | 9.988 | 0.401 | 0.551 | 3743.549 | 1290.826 |
| 540.000 | 9.417 | 9.435 | 0.803 | 0.803 | 3939.980 | 1297.148 |
| 560.000 | 6.883 | 6.891 | 3.773 | 3.777 | 4114.129 | 1336.212 |
| 580.000 | 9.520 | 9.531 | 1.000 | 1.000 | 4305.646 | 1357.200 |
| 600.000 | 10.521 | 10.548 | 0.435 | 0.435 | 4511.673 | 1366.507 |
| 620.000 | 11.202 | 11.215 | 0.000 | 0.000 | 4721.326 | 1376.874 |
| 640.000 | 10.407 | 10.425 | 1.000 | 1.000 | 4939.895 | 1386.567 |
| 660.000 | 10.723 | 10.730 | 0.000 | 0.000 | 5154.158 | 1388.817 |
| 674.456 | 23.134 | 23.951 | 0.000 | 0.000 | 5320.902 | 1388.817 |

Istram 22.11.11.15 21/11/22 11:13:51 200315
 EJE: 63: CE 8.1 CI

 D E S B R O C E S

PK inicial : 0.000
 PK final : 545.330

| P.K. | ANCHOS OCUPADOS | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|---------------------|---------------------|----------------------------|---------------------|---------------------|---------------------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- | PLANTA- --REAL-- |
| 0.000 | 20.249 | 20.322 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 11.477 | 11.591 | 0.000 | 0.000 | 228.558 | 0.810 |
| 40.000 | 6.751 | 6.981 | 4.620 | 4.632 | 424.548 | 32.215 |
| 60.000 | 7.259 | 7.369 | 3.454 | 3.475 | 569.923 | 108.353 |
| 80.000 | 6.630 | 6.702 | 3.836 | 3.840 | 700.838 | 185.797 |
| 100.000 | 10.661 | 10.731 | 0.000 | 0.000 | 880.852 | 211.641 |
| 120.000 | 12.753 | 13.169 | 0.000 | 0.000 | 1088.094 | 221.642 |
| 140.000 | 8.901 | 8.903 | 1.000 | 1.000 | 1318.882 | 234.103 |
| 160.000 | 9.600 | 9.606 | 0.282 | 0.282 | 1569.261 | 240.513 |
| 180.000 | 9.472 | 9.483 | 0.000 | 0.000 | 1750.416 | 247.274 |
| 200.000 | 11.316 | 11.677 | 0.170 | 0.170 | 2002.941 | 248.122 |
| 220.000 | 9.553 | 9.579 | 0.172 | 0.172 | 2188.639 | 261.893 |
| 240.000 | 9.375 | 9.393 | 0.250 | 0.250 | 2377.456 | 266.506 |
| 260.000 | 9.219 | 9.252 | 0.368 | 0.368 | 2556.429 | 279.598 |
| 280.000 | 6.163 | 6.182 | 3.304 | 3.312 | 2721.782 | 304.233 |
| 300.000 | 5.039 | 5.282 | 5.598 | 5.611 | 2865.117 | 374.479 |
| 320.000 | 7.963 | 8.939 | 7.075 | 7.089 | 2956.791 | 508.027 |
| 340.000 | 3.060 | 3.061 | 6.701 | 6.718 | 3033.981 | 652.746 |
| 360.000 | 3.757 | 3.776 | 6.069 | 6.069 | 3105.243 | 776.210 |
| 380.000 | 3.799 | 3.812 | 5.710 | 5.755 | 3186.338 | 888.376 |
| 400.000 | 5.492 | 5.505 | 3.686 | 3.706 | 3279.602 | 981.599 |
| 420.000 | 5.332 | 5.348 | 3.717 | 3.727 | 3381.276 | 1062.124 |
| 440.000 | 8.424 | 8.732 | 2.672 | 2.692 | 3527.346 | 1123.541 |
| 460.000 | 8.609 | 9.006 | 2.704 | 2.738 | 3697.918 | 1177.274 |
| 480.000 | 6.829 | 7.412 | 5.407 | 5.413 | 3843.583 | 1264.469 |
| 500.000 | 9.774 | 10.182 | 1.760 | 1.783 | 4027.893 | 1313.564 |
| 520.000 | 9.242 | 9.586 | 2.262 | 2.271 | 4214.111 | 1359.557 |
| 540.000 | 8.884 | 9.121 | 2.174 | 2.192 | 4404.896 | 1396.803 |
| 545.330 | 10.309 | 10.625 | 1.114 | 1.137 | 4456.045 | 1405.567 |

Istram 22.11.11.15 21/11/22 11:13:51 200315
 PROYECTO :
 EJE: 77: PI 6.2 (Camino)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 77.719

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|--------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60.000 | 13.744 | 13.978 | 1.256 | 1.339 | 137.708 | 12.306 | 140.271 | 13.006 |
| 77.719 | 13.609 | 13.995 | 1.391 | 1.496 | 380.886 | 34.913 | 389.236 | 37.392 |

Istram 22.11.11.15 21/11/22 11:13:51 200315
 PROYECTO :
 EJE: 78: PI 8.1 (C-252)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 86.780

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|--------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 14.000 | 14.450 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 14.000 | 14.388 | 0.000 | 0.000 | 264.998 | 15.002 | 271.107 | 15.046 |
| 40.000 | 11.802 | 12.178 | 2.198 | 2.286 | 542.658 | 17.339 | 555.206 | 17.482 |
| 60.000 | 11.516 | 11.759 | 2.484 | 2.501 | 779.237 | 60.760 | 796.105 | 61.436 |
| 80.000 | 11.160 | 11.417 | 2.840 | 2.867 | 1015.507 | 104.489 | 1037.990 | 105.788 |
| 86.780 | 11.225 | 11.505 | 2.775 | 2.802 | 1091.365 | 123.552 | 1115.599 | 125.033 |

Istram 22.11.11.15 21/11/22 11:13:51 200315
 PROYECTO :
 EJE: 81: E1 RAMAL 2

 D E S B R O C E S

PK inicial : 0.000
 PK final : 404.965

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 16.780 | 11.290 | 11.372 | 1.000 | 1.081 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 11.163 | 11.252 | 1.000 | 1.057 | 36.904 | 2.465 | 37.232 | 2.635 |
| 40.000 | 11.440 | 11.514 | 3.048 | 3.161 | 277.333 | 31.160 | 279.998 | 32.519 |
| 60.000 | 2.200 | 2.201 | 13.974 | 13.994 | 369.507 | 241.796 | 372.862 | 246.185 |
| 80.000 | 2.454 | 2.454 | 15.943 | 15.960 | 413.408 | 540.569 | 416.770 | 545.147 |
| 100.000 | 1.233 | 1.234 | 20.119 | 20.210 | 444.913 | 906.364 | 448.275 | 912.629 |
| 120.000 | 2.348 | 2.348 | 21.866 | 22.094 | 483.536 | 1325.168 | 486.899 | 1335.449 |
| 140.000 | 2.395 | 2.395 | 24.086 | 24.691 | 531.274 | 1788.245 | 534.637 | 1806.238 |
| 160.000 | 1.277 | 1.277 | 25.137 | 25.580 | 566.693 | 2285.084 | 570.056 | 2311.682 |
| 180.000 | 1.472 | 1.472 | 23.118 | 23.811 | 605.612 | 2755.766 | 608.975 | 2793.587 |
| 200.000 | 1.850 | 1.850 | 21.554 | 22.449 | 638.623 | 3199.457 | 641.986 | 3253.125 |
| 207.526 | 1.087 | 1.087 | 21.982 | 22.851 | 652.330 | 3360.694 | 655.693 | 3420.899 |

Istram 22.11.11.15 21/11/22 11:13:52 200315
 PROYECTO :
 EJE: 96: CE 6.8 CD

 D E S B R O C E S

PK inicial : 0.000
 PK final : 30.553

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 8.000 | 5.091 | 5.093 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 7.664 | 7.753 | 45.468 | 26.205 | 45.551 | 26.491 |
| 30.553 | 0.000 | 0.000 | 20.143 | 20.324 | 45.468 | 131.844 | 45.551 | 133.530 |

Istram 22.11.11.15 21/11/22 11:13:52 200315
 PROYECTO :
 EJE: 141: PI 4.8 (GIV-6221)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 89.393

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 7.554 | 7.694 | 3.220 | 3.332 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 9.200 | 9.274 | 1.230 | 1.290 | 167.148 | 44.091 | 169.721 | 46.194 |
| 40.000 | 0.000 | 0.000 | 0.000 | 0.000 | 196.148 | 55.160 | 199.352 | 57.868 |
| 60.000 | 7.659 | 7.828 | 3.429 | 3.660 | 258.479 | 71.725 | 262.646 | 75.746 |
| 80.000 | 7.610 | 7.728 | 3.455 | 3.593 | 411.887 | 141.356 | 418.997 | 149.078 |
| 89.393 | 7.682 | 7.789 | 3.221 | 3.334 | 483.796 | 172.733 | 491.955 | 181.629 |

Istram 22.11.11.15 21/11/22 11:13:52 200315
 PROYECTO :
 EJE: 144: CE 7.4 CI-CD (PI 7.4)

 D E S B R O C E S

PK inicial : 0.000
 PK final : 91.450

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 4.666 | 4.708 | 3.334 | 3.361 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 6.227 | 6.304 | 1.773 | 1.786 | 91.954 | 68.046 | 93.027 | 68.567 |
| 40.000 | 8.000 | 8.001 | 0.000 | 0.000 | 240.662 | 78.080 | 245.842 | 78.697 |
| 60.000 | 7.568 | 7.580 | 0.432 | 0.433 | 385.951 | 91.374 | 395.683 | 92.436 |
| 80.000 | 7.288 | 7.307 | 0.712 | 0.717 | 530.642 | 106.683 | 540.852 | 107.872 |
| 91.450 | 7.371 | 7.387 | 0.629 | 0.633 | 614.371 | 114.553 | 624.782 | 115.796 |

Istram 22.11.11.15 21/11/22 11:13:52 200315
 PROYECTO :
 EJE: 146: CONEXION CON AVDA. DE L'EMPORDÀ 1

 D E S B R O C E S

PK inicial : 0.000
 PK final : 537.711

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 6.526 | 6.566 | 0.368 | 0.377 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 6.367 | 6.471 | 0.000 | 0.000 | 130.412 | 0.382 | 131.096 | 0.391 |
| 40.000 | 1.247 | 1.261 | 5.103 | 5.195 | 201.232 | 56.205 | 203.364 | 56.952 |
| 60.000 | 0.000 | 0.000 | 10.239 | 10.252 | 226.320 | 189.060 | 229.050 | 191.773 |
| 80.000 | 0.000 | 0.000 | 8.434 | 8.487 | 263.903 | 346.752 | 266.899 | 351.728 |
| 100.000 | 6.874 | 6.884 | 0.000 | 0.000 | 295.722 | 470.200 | 298.790 | 475.448 |
| 120.000 | 7.337 | 7.338 | 0.000 | 0.000 | 431.164 | 470.200 | 434.272 | 475.448 |
| 140.000 | 7.703 | 7.715 | 0.000 | 0.000 | 584.817 | 470.200 | 588.308 | 475.448 |
| 160.000 | 7.458 | 7.474 | 0.000 | 0.000 | 731.028 | 470.200 | 734.754 | 475.448 |
| 180.000 | 6.856 | 6.861 | 0.000 | 0.000 | 877.869 | 470.200 | 882.027 | 475.448 |
| 200.000 | 7.069 | 7.069 | 0.000 | 0.000 | 1010.262 | 470.200 | 1014.444 | 475.448 |
| 220.000 | 6.633 | 6.633 | 0.000 | 0.000 | 1146.217 | 470.200 | 1150.400 | 475.448 |
| 240.000 | 7.162 | 7.162 | 0.000 | 0.000 | 1284.675 | 470.200 | 1288.861 | 475.448 |
| 260.000 | 6.511 | 6.511 | 0.000 | 0.000 | 1419.473 | 470.200 | 1423.662 | 475.448 |
| 280.000 | 6.476 | 6.476 | 0.000 | 0.000 | 1550.251 | 470.200 | 1554.450 | 475.448 |
| 300.000 | 6.465 | 6.465 | 0.000 | 0.000 | 1679.844 | 470.200 | 1684.044 | 475.448 |
| 320.000 | 6.403 | 6.404 | 0.000 | 0.000 | 1808.450 | 470.200 | 1812.650 | 475.448 |
| 340.000 | 6.780 | 6.780 | 0.000 | 0.000 | 1939.525 | 470.200 | 1943.725 | 475.448 |
| 360.000 | 6.695 | 6.697 | 0.000 | 0.000 | 2075.164 | 470.200 | 2079.371 | 475.448 |
| 380.000 | 7.003 | 7.005 | 0.000 | 0.000 | 2211.287 | 470.200 | 2215.517 | 475.448 |
| 400.000 | 7.188 | 7.188 | 0.000 | 0.000 | 2347.474 | 470.200 | 2351.720 | 475.448 |
| 420.000 | 6.911 | 6.913 | 0.000 | 0.000 | 2489.671 | 470.200 | 2493.957 | 475.448 |
| 440.000 | 7.153 | 7.153 | 0.000 | 0.000 | 2628.786 | 470.200 | 2633.150 | 475.448 |
| 460.000 | 7.186 | 7.191 | 0.000 | 0.000 | 2769.485 | 470.630 | 2773.908 | 475.877 |
| 480.000 | 7.316 | 7.335 | 0.000 | 0.000 | 2915.515 | 470.630 | 2920.258 | 475.877 |
| 500.000 | 7.189 | 7.195 | 0.000 | 0.000 | 3060.328 | 470.630 | 3065.302 | 475.877 |
| 520.000 | 7.356 | 7.367 | 0.000 | 0.000 | 3205.176 | 470.809 | 3210.298 | 476.057 |
| 537.711 | 6.769 | 6.769 | 0.000 | 0.000 | 3331.673 | 470.809 | 3336.914 | 476.057 |

Istram 22.11.11.15 21/11/22 11:13:52 200315
 PROYECTO :
 EJE: 147: CE 1.1 CI

Istram 22.11.11.15 21/11/22 11:13:52 200315
 PROYECTO :
 EJE: 154: CE 2.5 CI

***** DESBROCES *****

PK inicial : 0.000
 PK final : 369.924

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 5.080 | 5.085 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 9.729 | 9.775 | 0.148 | 0.148 | 225.933 | 7.597 | 226.541 | 7.597 |
| 40.000 | 9.910 | 10.056 | 0.000 | 0.000 | 414.236 | 18.335 | 417.348 | 18.336 |
| 60.000 | 9.649 | 9.657 | 0.000 | 0.000 | 601.857 | 28.335 | 606.519 | 28.344 |
| 80.000 | 9.616 | 9.638 | 0.520 | 0.520 | 791.679 | 37.011 | 796.547 | 37.021 |
| 100.000 | 7.921 | 7.927 | 0.632 | 0.632 | 969.650 | 52.942 | 975.049 | 52.955 |
| 120.000 | 7.527 | 7.534 | 1.583 | 1.583 | 1119.480 | 80.623 | 1125.051 | 80.739 |
| 140.000 | 8.159 | 8.160 | 1.000 | 1.000 | 1287.408 | 96.082 | 1293.079 | 96.219 |
| 160.000 | 10.216 | 10.242 | 0.000 | 0.000 | 1432.781 | 145.866 | 1438.880 | 146.064 |
| 180.000 | 10.300 | 10.303 | 0.250 | 0.250 | 1633.973 | 148.702 | 1640.238 | 148.901 |
| 200.000 | 1.753 | 1.753 | 7.237 | 7.238 | 1748.451 | 224.180 | 1754.748 | 224.395 |
| 220.000 | 3.156 | 3.157 | 5.666 | 5.667 | 1790.178 | 362.021 | 1796.480 | 362.269 |
| 240.000 | 4.935 | 4.940 | 3.374 | 3.374 | 1905.646 | 418.945 | 1912.221 | 419.210 |
| 260.000 | 6.980 | 6.981 | 1.000 | 1.000 | 2043.386 | 443.314 | 2049.991 | 443.581 |
| 280.000 | 7.823 | 7.824 | 0.000 | 0.000 | 2191.364 | 455.022 | 2197.982 | 455.291 |
| 300.000 | 9.622 | 9.625 | 0.000 | 0.000 | 2369.223 | 455.022 | 2375.868 | 455.291 |
| 320.000 | 11.219 | 11.219 | 0.000 | 0.000 | 2576.633 | 455.022 | 2583.397 | 455.291 |
| 340.000 | 12.087 | 12.109 | 0.000 | 0.000 | 2815.063 | 455.022 | 2822.043 | 455.291 |
| 360.000 | 10.425 | 10.428 | 0.000 | 0.000 | 3045.327 | 455.022 | 3052.554 | 455.291 |
| 369.924 | 7.797 | 7.826 | 0.000 | 0.000 | 3135.742 | 455.022 | 3143.128 | 455.291 |

***** DESBROCES *****

PK inicial : 0.000
 PK final : 2383.817

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|----------|-----------------|--------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 11.714 | 11.747 | 0.148 | 0.149 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 10.212 | 10.232 | 0.455 | 0.455 | 214.978 | 4.440 | 215.477 | 4.443 |
| 40.000 | 9.630 | 9.634 | 0.444 | 0.444 | 411.700 | 18.208 | 412.622 | 18.218 |
| 60.000 | 9.199 | 9.201 | 0.750 | 0.750 | 599.033 | 27.430 | 600.014 | 27.441 |
| 80.000 | 7.315 | 7.332 | 2.948 | 2.948 | 724.407 | 107.777 | 725.710 | 107.804 |
| 100.000 | 9.448 | 9.454 | 0.479 | 0.479 | 895.206 | 137.668 | 896.672 | 137.696 |
| 120.000 | 8.819 | 8.828 | 1.000 | 1.000 | 1077.378 | 155.269 | 1079.104 | 155.297 |
| 140.000 | 10.094 | 10.120 | 0.344 | 0.344 | 1460.858 | 179.731 | 1463.174 | 179.759 |
| 160.000 | 11.836 | 11.853 | 1.000 | 1.000 | 1668.600 | 192.988 | 1671.432 | 193.016 |
| 180.000 | 12.929 | 12.953 | 0.000 | 0.000 | 1912.450 | 207.989 | 1915.592 | 208.018 |
| 200.000 | 13.192 | 13.203 | 0.000 | 0.000 | 2166.533 | 214.252 | 2169.960 | 214.281 |
| 220.000 | 14.858 | 14.987 | 0.214 | 0.214 | 2439.352 | 222.959 | 2443.540 | 222.990 |
| 240.000 | 11.132 | 11.163 | 0.000 | 0.000 | 2710.312 | 231.124 | 2715.355 | 231.160 |
| 260.000 | 4.958 | 5.071 | 4.931 | 4.935 | 2875.349 | 277.895 | 2881.975 | 278.239 |
| 280.000 | 7.502 | 7.528 | 2.714 | 2.714 | 3016.675 | 340.932 | 3024.019 | 341.309 |
| 300.000 | 9.017 | 9.022 | 0.609 | 0.609 | 3189.599 | 364.958 | 3197.218 | 365.336 |
| 320.000 | 8.020 | 8.049 | 2.208 | 2.208 | 3346.815 | 409.237 | 3354.866 | 409.624 |
| 340.000 | 9.550 | 9.573 | 0.500 | 0.500 | 3529.780 | 430.728 | 3538.358 | 431.116 |
| 360.000 | 9.302 | 9.316 | 0.694 | 0.694 | 3719.233 | 441.392 | 3728.166 | 441.780 |
| 380.000 | 9.133 | 9.151 | 0.918 | 0.918 | 3898.759 | 462.336 | 3908.033 | 462.724 |
| 400.000 | 6.824 | 6.840 | 3.335 | 3.338 | 4049.528 | 513.595 | 4059.158 | 514.002 |
| 420.000 | 5.371 | 5.373 | 4.994 | 5.005 | 4170.835 | 594.825 | 4180.619 | 595.358 |
| 440.000 | 3.912 | 4.073 | 7.573 | 7.598 | 4251.635 | 732.525 | 4262.705 | 733.299 |
| 460.000 | 4.085 | 4.085 | 6.999 | 7.027 | 4333.986 | 881.269 | 4348.603 | 882.672 |
| 480.000 | 6.555 | 6.786 | 7.580 | 7.600 | 4462.971 | 1027.845 | 4481.619 | 1029.963 |
| 500.000 | 10.641 | 11.013 | 3.106 | 3.108 | 4632.518 | 1135.789 | 4656.945 | 1138.100 |
| 520.000 | 12.063 | 12.419 | 1.957 | 1.957 | 4873.232 | 1167.594 | 4904.483 | 1169.917 |
| 540.000 | 12.048 | 12.377 | 1.873 | 1.874 | 5120.119 | 1200.450 | 5158.259 | 1202.783 |
| 560.000 | 10.620 | 10.906 | 3.208 | 3.212 | 5346.579 | 1250.482 | 5390.659 | 1252.866 |
| 580.000 | 11.322 | 11.636 | 2.426 | 2.444 | 5568.371 | 1304.193 | 5618.283 | 1306.728 |
| 600.000 | 12.079 | 12.354 | 1.730 | 1.739 | 5806.086 | 1341.692 | 5861.832 | 1344.500 |
| 620.000 | 12.927 | 13.255 | 1.000 | 1.000 | 6046.167 | 1379.900 | 6107.826 | 1382.796 |
| 640.000 | 11.814 | 12.062 | 0.329 | 0.329 | 6304.500 | 1389.177 | 6372.336 | 1392.076 |
| 660.000 | 11.229 | 11.353 | 0.229 | 0.229 | 6529.122 | 1400.633 | 6600.692 | 1403.536 |
| 680.000 | 9.922 | 9.988 | 1.073 | 1.086 | 6744.838 | 1411.456 | 6818.435 | 1414.415 |
| 700.000 | 6.587 | 6.639 | 4.010 | 4.024 | 6896.789 | 1472.767 | 6971.423 | 1476.032 |
| 720.000 | 6.312 | 6.318 | 3.765 | 3.767 | 7024.114 | 1549.661 | 7099.129 | 1553.054 |
| 740.000 | 8.004 | 8.012 | 1.933 | 1.935 | 7170.127 | 1603.625 | 7245.281 | 1607.052 |
| 760.000 | 9.894 | 9.901 | 0.357 | 0.357 | 7358.153 | 1619.440 | 7433.516 | 1622.877 |
| 780.000 | 9.745 | 9.759 | 0.640 | 0.640 | 7555.038 | 1628.773 | 7630.576 | 1632.211 |
| 800.000 | 10.309 | 10.354 | 0.000 | 0.000 | 7758.432 | 1631.973 | 7834.338 | 1635.411 |
| 820.000 | 10.005 | 10.125 | 0.267 | 0.267 | 7958.396 | 1637.806 | 8036.212 | 1641.244 |
| 840.000 | 9.087 | 9.105 | 1.000 | 1.000 | 8151.631 | 1649.505 | 8230.710 | 1652.944 |
| 860.000 | 9.172 | 9.199 | 1.429 | 1.439 | 8335.899 | 1671.650 | 8415.484 | 1675.139 |
| 880.000 | 5.232 | 5.256 | 5.820 | 5.849 | 8493.767 | 1730.715 | 8574.037 | 1734.745 |
| 900.000 | 6.074 | 6.074 | 4.361 | 4.367 | 8595.124 | 1843.789 | 8675.539 | 1848.040 |
| 920.000 | 9.651 | 9.666 | 0.222 | 0.222 | 8745.328 | 1896.657 | 8825.878 | 1900.971 |
| 940.000 | 10.265 | 10.277 | 0.000 | 0.000 | 8941.504 | 1903.381 | 9022.358 | 1907.696 |
| 960.000 | 9.872 | 9.874 | 0.250 | 0.250 | 9139.429 | 1908.781 | 9220.443 | 1913.108 |
| 980.000 | 10.166 | 10.168 | 0.000 | 0.000 | 9333.394 | 1917.527 | 9414.437 | 1921.854 |
| 1000.000 | 9.900 | 9.938 | 0.252 | 0.252 | 9547.366 | 1921.285 | 9628.674 | 1925.612 |
| 1020.000 | 9.684 | 9.704 | 0.661 | 0.661 | 9736.810 | 1937.342 | 9818.590 | 1941.670 |
| 1040.000 | 8.107 | 8.124 | 2.272 | 2.273 | 9911.482 | 1969.753 | 9993.636 | 1974.086 |
| 1060.000 | 9.636 | 9.643 | 0.600 | 0.600 | 10084.673 | 2003.339 | 10167.107 | 2007.675 |
| 1080.000 | 9.388 | 9.414 | 1.000 | 1.000 | 10273.492 | 2021.339 | 10356.267 | 2025.676 |
| 1100.000 | 10.521 | 10.563 | 0.000 | 0.000 | 10472.324 | 2031.835 | 10555.795 | 2036.172 |
| 1120.000 | 10.557 | 10.589 | 0.000 | 0.000 | 10683.018 | 2031.861 | 10767.250 | 2036.198 |
| 1140.000 | 11.599 | 11.648 | 0.644 | 0.644 | 10903.408 | 2040.302 | 10988.395 | 2044.640 |
| 1160.000 | 11.489 | 11.684 | 0.601 | 0.603 | 11138.959 | 2053.058 | 11226.847 | 2057.411 |
| 1180.000 | 11.106 | 11.383 | 0.212 | 0.216 | 11361.250 | 2059.019 | 11453.513 | 2063.425 |
| 1200.000 | 11.002 | 11.377 | 0.311 | 0.311 | 11576.999 | 2070.232 | 11675.468 | 2074.777 |
| 1220.000 | 5.944 | 5.954 | 4.370 | 4.375 | 11750.066 | 2104.903 | 11850.549 | 2109.580 |
| 1240.000 | 8.413 | 8.442 | 1.812 | 1.826 | 11891.628 | 2162.419 | 11992.432 | 2167.337 |
| 1260.000 | 10.230 | 10.252 | 0.000 | 0.000 | 12091.643 | 2186.690 | 12197.035 | 2191.705 |
| 1280.000 | 8.075 | 8.095 | 2.276 | 2.284 | 12266.072 | 2218.295 | 12371.881 | 2223.386 |
| 1300.000 | 8.375 | 8.403 | 1.979 | 1.990 | 12432.959 | 2258.791 | 12539.233 | 2264.051 |
| 1320.000 | 6.656 | 6.666 | 3.338 | 3.342 | 12588.660 | 2307.783 | 12695.308 | 2313.209 |
| 1340.000 | 5.136 | 5.141 | 5.004 | 5.015 | 12705.154 | 2393.005 | 12811.949 | 2398.585 |
| 1360.000 | 4.955 | 4.957 | 5.404 | 5.411 | 12811.656 | 2491.500 | 12918.526 | 2497.260 |
| 1380.000 | 3.845 | 3.846 | 6.589 | 6.591 | 12906.692 | 2605.059 | 13013.593 | 2610.889 |
| 1400.000 | 5.188 | 5.191 | 5.099 | 5.107 | 13004.421 | 2715.130 | 13111.355 | 2721.082 |
| 1420.000 | 7.050 | 7.055 | 3.002 | 3.014 | 13123.615 | 2800.160 | 13230.611 | 2806.360 |
| 1440.000 | 7.615 | 7.619 | 2.420 | 2.421 | 13264.586 | 2859.274 | 13371.698 | 2865.621 |
| 1460.000 | 10.085 | 10.091 | 0.000 | 0.000 | 13449.948 | 2874.843 | 13557.156 | 2881.198 |
| 1480.000 | 10.576 | 10.659 | 0.451 | 0.451 | 13655.945 | 2879.258 | 13763.744 | 2885.613 |
| 1500.000 | 11.829 | 12.048 | 0.435 | 0.452 | 13876.125 | 2887.133 | 13986.383 | 2893.544 |
| 1520.000 | 12.863 | 13.198 | 0.235 | 0.236 | 14117.122 | 2895.196 | 14233.717 | 2901.786 |

Istram 22.11.11.15 21/11/22 11:13:52 200315
 PROYECTO :
 EJE: 154: CE 2.5 CI

 * * * D E S B R O C E S * * *

PK inicial : 0.000
 PK final : 2383.817

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|----------|-----------------|--------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 1560.000 | 11.600 | 12.098 | 1.000 | 1.000 | 14367.899 | 2904.353 | 14493.789 | 2910.946 |
| 1580.000 | 12.622 | 13.056 | 0.000 | 0.000 | 14613.847 | 2910.263 | 14748.912 | 2916.856 |
| 1600.000 | 9.388 | 9.748 | 2.791 | 2.793 | 14834.556 | 2936.041 | 14977.430 | 2942.652 |
| 1620.000 | 8.458 | 8.678 | 3.245 | 3.247 | 15000.777 | 3005.089 | 15148.530 | 3011.741 |
| 1640.000 | 9.871 | 9.935 | 1.000 | 1.001 | 15179.101 | 3045.815 | 15328.981 | 3052.503 |
| 1660.000 | 10.111 | 10.209 | 0.000 | 0.000 | 15376.178 | 3057.167 | 15527.305 | 3063.877 |
| 1680.000 | 10.538 | 10.709 | 0.056 | 0.056 | 15569.260 | 3070.630 | 15724.121 | 3077.350 |
| 1700.000 | 7.203 | 7.220 | 3.596 | 3.613 | 15759.162 | 3097.077 | 15915.055 | 3103.889 |
| 1720.000 | 4.457 | 4.494 | 6.723 | 6.745 | 15892.513 | 3182.515 | 16048.889 | 3189.674 |
| 1740.000 | 4.384 | 4.395 | 6.745 | 6.745 | 15995.314 | 3306.227 | 16152.101 | 3313.603 |
| 1760.000 | 3.543 | 3.544 | 6.964 | 7.009 | 16076.550 | 3440.511 | 16233.595 | 3448.221 |
| 1780.000 | 6.420 | 6.425 | 3.601 | 3.635 | 16180.700 | 3540.637 | 16337.789 | 3549.136 |
| 1800.000 | 6.511 | 6.577 | 3.958 | 3.972 | 16313.629 | 3610.106 | 16471.108 | 3619.126 |
| 1820.000 | 4.252 | 4.377 | 6.837 | 6.843 | 16416.625 | 3726.461 | 16576.561 | 3735.626 |
| 1840.000 | 6.903 | 6.908 | 3.327 | 3.354 | 16515.464 | 3838.652 | 16676.220 | 3848.254 |
| 1860.000 | 7.178 | 7.197 | 2.844 | 2.856 | 16660.562 | 3894.294 | 16821.504 | 3904.109 |
| 1880.000 | 7.839 | 7.850 | 2.600 | 2.609 | 16810.486 | 3948.730 | 16971.613 | 3958.785 |
| 1900.000 | 4.003 | 4.015 | 6.667 | 6.670 | 16942.134 | 4032.515 | 17103.857 | 4042.746 |
| 1920.000 | 3.149 | 3.149 | 7.736 | 7.741 | 17015.848 | 4172.576 | 17177.621 | 4182.954 |
| 1940.000 | 3.232 | 3.232 | 7.635 | 7.645 | 17091.155 | 4315.160 | 17252.938 | 4325.678 |
| 1960.000 | 4.529 | 4.530 | 6.321 | 6.327 | 17165.592 | 4456.854 | 17327.384 | 4467.585 |
| 1980.000 | 6.949 | 6.952 | 3.695 | 3.700 | 17273.884 | 4563.563 | 17435.705 | 4574.394 |
| 2000.000 | 6.402 | 6.419 | 4.156 | 4.162 | 17415.581 | 4633.750 | 17577.601 | 4644.691 |
| 2020.000 | 8.399 | 8.428 | 2.760 | 2.762 | 17560.282 | 4708.262 | 17722.775 | 4719.287 |
| 2040.000 | 8.377 | 8.404 | 2.937 | 2.946 | 17725.514 | 4767.817 | 17888.560 | 4778.906 |
| 2060.000 | 7.898 | 7.917 | 3.249 | 3.263 | 17880.596 | 4834.375 | 18044.098 | 4845.694 |
| 2080.000 | 6.170 | 6.174 | 5.386 | 5.389 | 18025.054 | 4916.569 | 18188.719 | 4928.104 |
| 2100.000 | 5.330 | 5.331 | 6.307 | 6.309 | 18134.412 | 5039.837 | 18298.142 | 5051.439 |
| 2120.000 | 7.612 | 7.632 | 3.848 | 3.879 | 18272.188 | 5133.986 | 18436.062 | 5145.858 |
| 2140.000 | 8.516 | 8.542 | 3.442 | 3.472 | 18434.507 | 5207.976 | 18598.929 | 5220.524 |
| 2160.000 | 7.969 | 8.003 | 4.262 | 4.296 | 18599.283 | 5284.978 | 18764.271 | 5298.126 |
| 2180.000 | 7.514 | 7.559 | 4.742 | 4.782 | 18757.837 | 5370.883 | 18923.668 | 5384.808 |
| 2200.000 | 8.721 | 8.728 | 3.453 | 3.461 | 18925.401 | 5448.648 | 19091.800 | 5463.039 |
| 2220.000 | 8.851 | 8.871 | 3.339 | 3.368 | 19108.567 | 5509.195 | 19275.220 | 5523.967 |
| 2240.000 | 9.372 | 9.401 | 3.347 | 3.378 | 19283.696 | 5581.170 | 19450.867 | 5596.688 |
| 2260.000 | 8.469 | 8.526 | 4.554 | 4.593 | 19455.826 | 5666.570 | 19623.834 | 5682.720 |
| 2280.000 | 12.608 | 12.649 | 0.615 | 0.615 | 19683.811 | 5700.158 | 19852.751 | 5716.506 |
| 2300.000 | 13.142 | 13.218 | 0.333 | 0.333 | 19943.976 | 5706.785 | 20114.019 | 5723.132 |
| 2320.000 | 12.632 | 12.750 | 1.000 | 1.000 | 20208.811 | 5713.452 | 20381.158 | 5729.800 |
| 2340.000 | 9.305 | 9.496 | 4.565 | 4.565 | 20433.836 | 5763.240 | 20609.348 | 5779.589 |
| 2360.000 | 13.571 | 13.674 | 0.436 | 0.436 | 20672.438 | 5802.914 | 20850.714 | 5819.263 |
| 2380.000 | 8.987 | 9.019 | 5.162 | 5.169 | 20891.405 | 5863.049 | 21070.613 | 5879.421 |
| 2383.817 | 7.799 | 7.799 | 0.000 | 0.000 | 20944.255 | 5873.270 | 21123.518 | 5889.646 |

Istram 22.11.11.15 21/11/22 11:13:52 200315
 PROYECTO :
 EJE: 159: ENLACE FIGUERES R7

 * * * D E S B R O C E S * * *

PK inicial : 0.000
 PK final : 893.825

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 660.000 | 5.712 | 5.712 | 8.113 | 8.113 | 36.932 | 39.888 | 36.932 | 39.889 |
| 680.000 | 1.604 | 1.604 | 12.915 | 12.915 | 96.552 | 263.593 | 96.552 | 263.594 |
| 700.000 | 0.237 | 0.237 | 14.691 | 14.691 | 126.091 | 541.098 | 126.092 | 543.458 |
| 720.000 | 9.634 | 9.635 | 8.618 | 8.988 | 205.553 | 761.237 | 205.561 | 764.641 |
| 740.000 | 5.321 | 5.415 | 8.532 | 8.583 | 352.493 | 931.826 | 354.439 | 939.107 |
| 760.000 | 0.705 | 0.710 | 11.586 | 11.604 | 400.866 | 1140.707 | 403.484 | 1148.725 |
| 780.000 | 8.802 | 8.810 | 3.359 | 3.379 | 542.470 | 1244.672 | 545.193 | 1252.940 |
| 800.000 | 9.042 | 9.046 | 3.276 | 3.276 | 716.278 | 1319.656 | 719.104 | 1328.100 |
| 820.000 | 9.280 | 9.285 | 2.857 | 2.858 | 899.503 | 1381.449 | 902.409 | 1389.906 |
| 840.000 | 11.455 | 11.466 | 1.141 | 1.141 | 1103.080 | 1421.772 | 1106.103 | 1430.237 |

Istram 23.03.03.01 13/03/23 12:19:31 200315
 PROYECTO :
 EJE: 160: AVDA. DE L'EMPORDÀ (PI 0.4)

 * * * D E S B R O C E S * * *

PK inicial : 0.000
 PK final : 234.330

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 11.416 | 11.418 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 11.054 | 11.233 | 0.000 | 230.539 | 0.000 | 232.501 |
| 40.000 | 0.000 | 0.000 | 10.236 | 10.338 | 0.000 | 439.029 | 0.000 | 442.667 |
| 60.000 | 0.000 | 0.000 | 11.489 | 11.709 | 0.000 | 651.126 | 0.000 | 657.689 |
| 80.000 | 1.801 | 2.360 | 7.908 | 8.658 | 100.798 | 725.283 | 101.079 | 734.529 |
| 100.000 | 0.000 | 0.000 | 12.256 | 12.260 | 101.698 | 947.384 | 102.260 | 957.589 |
| 120.000 | 2.679 | 2.691 | 10.681 | 10.706 | 112.067 | 1192.983 | 112.666 | 1203.948 |
| 140.000 | 11.363 | 11.375 | 3.182 | 3.182 | 287.101 | 1296.852 | 288.094 | 1307.958 |
| 151.600 | 11.832 | 11.835 | 3.188 | 3.188 | 400.432 | 1355.897 | 401.482 | 1367.022 |

Istram 22.11.11.15 21/11/22 11:13:53 200315
 PROYECTO :
 EJE: 210: GLORIETA GIV-6228

 * * * D E S B R O C E S * * *

PK inicial : 0.000
 PK final : 62.832

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 21.203 | 21.797 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 17.964 | 18.199 | 0.000 | 384.906 | 0.000 | 391.153 |
| 40.000 | 0.000 | 0.000 | 17.913 | 18.009 | 0.000 | 750.820 | 0.000 | 761.565 |
| 60.000 | 0.000 | 0.000 | 21.141 | 21.718 | 0.000 | 1129.405 | 0.000 | 1144.213 |
| 62.832 | 0.000 | 0.000 | 21.203 | 21.797 | 0.000 | 1189.349 | 0.000 | 1205.830 |

Istram 22.11.11.15 21/11/22 11:13:53 200315
 PROYECTO :
 EJE: 211: GIV-6228 - NORTE

 * * * D E S B R O C E S * * *

PK inicial : 0.000
 PK final : 44.543

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------------|-----------------|-------|-----------|--------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 12.416 | 12.977 | 0.000 | 0.000 | 0.000 | 0.000 |
| -99999999.000 | 0.000 | 0.000 | 6.222 | 6.680 | 0.000 | 95.162 | 0.000 | 100.061 |

Istram 23.03.03.01 13/03/23 12:20:17 200315
 PROYECTO :
 EJE: 212: CALLE MIGJORN

 D E S B R O C E S

PK inicial : 0.000
 PK final : 366.954

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | | | SUPERFICIE REAL | | | |
|---------------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | |
| | PLANTA- | REAL- | PLANTA- | REAL- | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 9.000 | 15.393 | 15.396 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 15.134 | 15.147 | 49.026 | 109.702 | 49.036 | 109.880 | 49.026 | 109.702 | 49.036 | 109.880 |
| 40.000 | 0.000 | 0.000 | 15.565 | 15.567 | 49.026 | 417.899 | 49.036 | 418.204 | 49.026 | 417.899 | 49.036 | 418.204 |
| 60.000 | 0.000 | 0.000 | 15.438 | 15.441 | 49.026 | 728.615 | 49.036 | 728.971 | 49.026 | 728.615 | 49.036 | 728.971 |
| 80.000 | 0.000 | 0.000 | 15.220 | 15.222 | 49.026 | 1035.005 | 49.036 | 1035.406 | 49.026 | 1035.005 | 49.036 | 1035.406 |
| 100.000 | 0.095 | 0.095 | 14.813 | 14.815 | 49.074 | 1337.485 | 49.084 | 1337.918 | 49.074 | 1337.485 | 49.084 | 1337.918 |
| 120.000 | 0.000 | 0.000 | 14.732 | 14.733 | 64.277 | 1616.487 | 64.289 | 1616.951 | 64.277 | 1616.487 | 64.289 | 1616.951 |
| 140.000 | 0.000 | 0.000 | 14.930 | 14.932 | 64.277 | 1913.946 | 64.289 | 1914.449 | 64.277 | 1913.946 | 64.289 | 1914.449 |
| 160.000 | 0.000 | 0.000 | 14.990 | 14.992 | 64.277 | 2213.441 | 64.289 | 2213.993 | 64.277 | 2213.441 | 64.289 | 2213.993 |
| 180.000 | 0.000 | 0.000 | 14.664 | 14.666 | 64.277 | 2510.220 | 64.289 | 2510.815 | 64.277 | 2510.220 | 64.289 | 2510.815 |
| 200.000 | 2.356 | 2.356 | 11.598 | 11.600 | 72.000 | 2789.571 | 72.012 | 2790.206 | 72.000 | 2789.571 | 72.012 | 2790.206 |
| 220.000 | 6.159 | 6.159 | 7.417 | 7.418 | 171.977 | 2963.101 | 171.991 | 2963.761 | 171.977 | 2963.101 | 171.991 | 2963.761 |
| 240.000 | 13.388 | 13.388 | 0.000 | 0.000 | 405.874 | 2999.111 | 405.907 | 2999.777 | 405.874 | 2999.111 | 405.907 | 2999.777 |
| 260.000 | 4.406 | 4.406 | 9.323 | 9.325 | 590.080 | 3085.696 | 590.123 | 3086.378 | 590.080 | 3085.696 | 590.123 | 3086.378 |
| 280.000 | 11.173 | 11.192 | 3.681 | 4.100 | 742.099 | 3230.350 | 742.291 | 3238.765 | 742.099 | 3230.350 | 742.291 | 3238.765 |
| 300.000 | 8.695 | 8.754 | 4.687 | 5.152 | 939.722 | 3314.388 | 940.311 | 3331.848 | 939.722 | 3314.388 | 940.311 | 3331.848 |
| 320.000 | 7.769 | 7.771 | 5.776 | 6.167 | 1114.930 | 3404.619 | 1116.619 | 3430.150 | 1114.930 | 3404.619 | 1116.619 | 3430.150 |
| -99999999.000 | 0.000 | 0.000 | 6.027 | 6.275 | 1135.378 | 3572.275 | 1137.069 | 3602.663 | 1135.378 | 3572.275 | 1137.069 | 3602.663 |

Istram 22.11.11.15 21/11/22 11:13:53 200315
 PROYECTO :
 EJE: 226: Camino de enlace E2

 D E S B R O C E S

PK inicial : 0.000
 PK final : 103.700

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | | | SUPERFICIE REAL | | | |
|---------|-----------------|-------|-----------|-------|----------------------------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | |
| | PLANTA- | REAL- | PLANTA- | REAL- | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 5.813 | 5.816 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 6.682 | 6.806 | 0.000 | 0.000 | 113.893 | 2.000 | 114.076 | 2.005 | 113.893 | 2.000 | 114.076 | 2.005 |
| 40.000 | 8.506 | 8.794 | 0.000 | 0.000 | 241.077 | 11.839 | 244.662 | 12.313 | 241.077 | 11.839 | 244.662 | 12.313 |
| 60.000 | 5.661 | 5.922 | 0.926 | 1.006 | 382.092 | 18.574 | 390.766 | 19.582 | 382.092 | 18.574 | 390.766 | 19.582 |
| 80.000 | 5.697 | 5.967 | 0.667 | 0.727 | 498.812 | 31.009 | 513.075 | 33.125 | 498.812 | 31.009 | 513.075 | 33.125 |
| 100.000 | 8.601 | 8.601 | 0.000 | 0.000 | 631.400 | 37.482 | 648.353 | 39.832 | 631.400 | 37.482 | 648.353 | 39.832 |
| 103.700 | 7.927 | 7.927 | 0.000 | 0.000 | 661.878 | 37.482 | 678.833 | 39.832 | 661.878 | 37.482 | 678.833 | 39.832 |

Istram 22.11.11.15 21/11/22 11:13:53 200315
 PROYECTO :
 EJE: 228: INICIO CALZ. IZQ

 D E S B R O C E S

PK inicial : 0.000
 PK final : 663.128

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | | | SUPERFICIE REAL | | | |
|---------|-----------------|--------|-----------|--------|----------------------------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | |
| | PLANTA- | REAL- | PLANTA- | REAL- | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 19.951 | 20.028 | 0.211 | 0.217 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 18.525 | 18.653 | 0.783 | 0.818 | 402.771 | 7.086 | 405.104 | 7.371 | 402.771 | 7.086 | 405.104 | 7.371 |
| 40.000 | 17.566 | 17.844 | 1.520 | 1.757 | 764.875 | 27.243 | 770.516 | 29.149 | 764.875 | 27.243 | 770.516 | 29.149 |
| 60.000 | 16.220 | 16.283 | 2.912 | 3.162 | 1106.343 | 94.257 | 1114.806 | 103.741 | 1106.343 | 94.257 | 1114.806 | 103.741 |
| 80.000 | 16.621 | 16.662 | 5.862 | 6.646 | 1454.497 | 196.645 | 1463.997 | 220.300 | 1454.497 | 196.645 | 1463.997 | 220.300 |
| 100.000 | 11.824 | 11.846 | 4.441 | 4.496 | 1752.777 | 289.090 | 1762.835 | 318.729 | 1752.777 | 289.090 | 1762.835 | 318.729 |
| 120.000 | 3.273 | 3.276 | 13.043 | 13.190 | 1887.410 | 437.938 | 1897.748 | 470.087 | 1887.410 | 437.938 | 1897.748 | 470.087 |

Istram 22.11.11.15 21/11/22 11:13:53 200315
 PROYECTO :
 EJE: 229: FINAL CALZ. IZQ

 D E S B R O C E S

PK inicial : 0.000
 PK final : 160.915

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | | | SUPERFICIE REAL | | | |
|---------|-----------------|-------|-----------|--------|----------------------------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | |
| | PLANTA- | REAL- | PLANTA- | REAL- | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 2.362 | 2.493 | 10.080 | 11.077 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 2.446 | 2.539 | 6.483 | 7.144 | 51.158 | 167.592 | 53.596 | 184.760 | 51.158 | 167.592 | 53.596 | 184.760 |
| 40.000 | 2.147 | 2.220 | 4.705 | 5.001 | 95.887 | 288.814 | 99.765 | 317.433 | 95.887 | 288.814 | 99.765 | 317.433 |
| 60.000 | 2.584 | 2.658 | 5.173 | 5.649 | 142.624 | 386.362 | 147.964 | 422.258 | 142.624 | 386.362 | 147.964 | 422.258 |
| 80.000 | 2.628 | 2.727 | 4.560 | 4.949 | 193.958 | 497.575 | 200.973 | 545.306 | 193.958 | 497.575 | 200.973 | 545.306 |
| 100.000 | 2.969 | 3.128 | 4.097 | 4.387 | 249.678 | 586.928 | 259.197 | 641.989 | 249.678 | 586.928 | 259.197 | 641.989 |
| 120.000 | 1.906 | 1.973 | 2.111 | 2.290 | 313.138 | 663.859 | 325.941 | 725.254 | 313.138 | 663.859 | 325.941 | 725.254 |
| 140.000 | 3.844 | 3.991 | 1.746 | 1.873 | 360.999 | 693.749 | 375.464 | 757.195 | 360.999 | 693.749 | 375.464 | 757.195 |
| 160.000 | 4.112 | 4.235 | 1.259 | 1.404 | 441.082 | 716.663 | 458.082 | 781.971 | 441.082 | 716.663 | 458.082 | 781.971 |
| 160.915 | 4.123 | 4.249 | 1.343 | 1.502 | 444.850 | 717.854 | 461.964 | 783.301 | 444.850 | 717.854 | 461.964 | 783.301 |

Istram 22.11.11.15 21/11/22 11:13:53 200315
 PROYECTO :
 EJE: 238: ZONA INTERIOR 1

 D E S B R O C E S

PK inicial : 0.000
 PK final : 166.853

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | | | SUPERFICIE REAL | | | |
|---------|-----------------|-------|-----------|--------|----------------------------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | |
| | PLANTA- | REAL- | PLANTA- | REAL- | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 0.100 | 0.100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 0.756 | 0.756 | 0.000 | 39.976 | 0.000 | 40.052 | 0.000 | 39.976 | 0.000 | 40.052 |
| 40.000 | 0.000 | 0.000 | 3.007 | 3.009 | 0.000 | 73.754 | 0.000 | 73.866 | 0.000 | 73.754 | 0.000 | 73.866 |
| 60.000 | 1.370 | 1.372 | 4.308 | 4.313 | 6.615 | 153.759 | 6.623 | 153.959 | 6.615 | 153.759 | 6.623 | 153.959 |
| 80.000 | 0.438 | 0.442 | 10.098 | 10.133 | 32.777 | 283.215 | 32.892 | 283.697 | 32.777 | 283.215 | 32.892 | 283.697 |
| 100.000 | 0.000 | 0.000 | 22.612 | 22.807 | 33.140 | 595.140 | 33.258 | 597.540 | 33.140 | 595.140 | 33.258 | 597.540 |
| 120.000 | 0.000 | 0.000 | 60.568 | 60.626 | 33.140 | 1532.272 | 33.258 | 1538.260 | 33.140 | 1532.272 | 33.258 | 1538.260 |
| 140.000 | 0.000 | 0.000 | 19.548 | 19.684 | 33.140 | 2297.146 | 33.258 | 2305.119 | 33.140 | 2297.146 | 33.258 | 2305.119 |
| 160.000 | 0.000 | 0.000 | 2.823 | 2.840 | 33.140 | 2504.448 | 33.258 | 2514.484 | 33.140 | 2504.448 | 33.258 | 2514.484 |
| 166.853 | 0.000 | 0.000 | 0.100 | 0.100 | 33.140 | 2512.362 | 33.258 | 2522.409 | 33.140 | 2512.362 | 33.258 | 2522.409 |

Istram 22.11.11.15 21/11/22 11:13:54 200315
 PROYECTO :
 EJE: 239: Linea

 D E S B R O C E S

PK inicial : 0.000
 PK final : 70.223

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | | | SUPERFICIE REAL | | | |
|--------|-----------------|--------|-----------|-------|----------------------------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | |
| | PLANTA- | REAL- | PLANTA- | REAL- | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 10.619 | 10.627 | 0.000 | 0.000 | 67.234 | 0.000 | 67.276 | 0.000 | 67.234 | 0.000 | 67.276 | 0.000 |
| 40.000 | 37.288 | 37.923 | 0.000 | 0.000 | 809.390 | 28.541 | 827.462 | 28.748 | 809.390 | 28.541 | 827.462 | 28.748 |
| 60.000 | 36.347 | 36.609 | 0.000 | 0.000 | 1534.064 | 28.541 | 1560.248 | 28.748 | 1534.064 | 28.541 | 1560.248 | 28.748 |
| 70.223 | 8.228 | 8.529 | 0.000 | 0.000 | 1859.120 | 28.541 | 1888.263 | 28.748 | 1859.120 | 28.541 | 1888.263 | 28.748 |

Istram 22.11.11.15 21/11/22 11:13:54 200315
 PROYECTO :
 EJE: 241: ZONA INTERIOR 2.3

 D E S B R O C E S

PK inicial : 0.000
 PK final : 78.132

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | | | SUPERFICIE REAL | | | |
|------|-----------------|-------|-----------|-------|----------------------------|--|-----------|--|-----------------|--|-----------|--|
| | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | | DESMONTE | | TERRAPLEN | |
| | PLANTA- | REAL- | PLANTA- | REAL- | | | | | | | | |

Istram 22.11.11.15 21/11/22 11:13:54 200315
 PROYECTO :
 EJE: 242: ZONA INTERIOR 3.1

 D E S B R O C E S

PK inicial : 0.000
 PK final : 157.244

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 2.458 | 2.458 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 8.392 | 8.392 | 0.000 | 107.185 | 0.000 | 107.186 |
| 40.000 | 0.000 | 0.000 | 16.508 | 16.508 | 0.000 | 349.628 | 0.000 | 349.631 |
| 60.000 | 0.000 | 0.000 | 33.415 | 33.415 | 0.000 | 823.384 | 0.000 | 823.389 |
| 80.000 | 0.000 | 0.000 | 72.179 | 73.730 | 0.000 | 2016.799 | 0.000 | 2032.076 |
| 100.000 | 0.000 | 0.000 | 45.986 | 46.502 | 0.000 | 3196.880 | 0.000 | 3230.057 |
| 120.000 | 0.000 | 0.000 | 24.041 | 24.378 | 0.000 | 3876.505 | 0.000 | 3917.678 |
| 140.000 | 0.000 | 0.000 | 9.955 | 10.140 | 0.000 | 4206.333 | 0.000 | 4252.368 |
| 157.244 | 0.000 | 0.000 | 1.871 | 1.927 | 0.000 | 4303.729 | 0.000 | 4352.177 |

Istram 22.11.11.15 21/11/22 11:13:54 200315
 PROYECTO :
 EJE: 243: ZONA INTERIOR 3.1

 D E S B R O C E S

PK inicial : 0.000
 PK final : 126.513

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40.000 | 5.155 | 5.157 | 55.615 | 55.700 | 3.788 | 598.948 | 3.789 | 599.705 |
| 60.000 | 2.717 | 2.722 | 11.486 | 11.525 | 108.156 | 1071.237 | 108.277 | 1073.184 |
| 80.000 | 5.488 | 5.495 | 0.000 | 0.000 | 190.829 | 1157.298 | 191.248 | 1159.893 |
| 100.000 | 3.106 | 3.117 | 0.000 | 0.000 | 272.421 | 1157.298 | 273.177 | 1159.893 |
| 120.000 | 3.099 | 3.127 | 0.000 | 0.000 | 333.528 | 1157.298 | 336.201 | 1159.893 |
| 126.513 | 0.004 | 0.004 | 0.996 | 1.020 | 344.947 | 1159.209 | 347.767 | 1161.841 |

Istram 22.11.11.15 21/11/22 11:13:54 200315
 PROYECTO :
 EJE: 283: GIV-6228 - SUR

 D E S B R O C E S

PK inicial : 0.000
 PK final : 43.726

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------------|-----------------|-----------|----------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 11.798 | 12.199 | 0.000 | 0.000 | 0.000 | 0.000 |
| -99999999.000 | 0.000 | 0.000 | 5.870 | 6.153 | 0.000 | 74.800 | 0.000 | 78.201 |

Istram 22.11.11.15 21/11/22 11:13:54 200315
 PROYECTO :
 EJE: 314: CONNEXION CON AVDA. DE L'EMPORDÀ 2

 D E S B R O C E S

PK inicial : 0.000
 PK final : 182.960

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|---------|-----------------|-----------|----------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 5.531 | 5.532 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 6.903 | 6.907 | 0.000 | 0.000 | 139.649 | 0.000 | 139.765 | 0.000 |
| 40.000 | 1.528 | 1.533 | 6.356 | 6.363 | 212.948 | 78.858 | 213.138 | 78.919 |
| 60.000 | 1.595 | 1.611 | 6.067 | 6.076 | 244.989 | 202.105 | 245.397 | 202.334 |
| 80.000 | 2.230 | 2.244 | 5.016 | 5.016 | 282.885 | 316.478 | 283.623 | 316.817 |
| 100.000 | 2.744 | 2.754 | 4.527 | 4.527 | 386.337 | 355.670 | 387.265 | 356.010 |
| 120.000 | 1.158 | 1.168 | 6.288 | 6.291 | 412.550 | 478.076 | 413.639 | 478.455 |
| 140.000 | 7.159 | 7.179 | 0.000 | 0.000 | 507.257 | 531.785 | 509.025 | 532.183 |
| 160.000 | 6.561 | 6.572 | 0.000 | 0.000 | 641.833 | 531.786 | 643.865 | 532.183 |
| 180.000 | 16.238 | 16.260 | 0.000 | 0.000 | 803.498 | 531.786 | 806.364 | 532.183 |
| 182.960 | 0.034 | 0.034 | 0.000 | 0.000 | 838.097 | 531.786 | 840.990 | 532.183 |

Istram 22.11.11.15 21/11/22 11:13:54 200315
 PROYECTO :
 EJE: 317: GIV-6228 - CARRIL BICI

 D E S B R O C E S

PK inicial : 0.000
 PK final : 84.817

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-----------|----------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 5.970 | 5.970 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 5.721 | 5.721 | 0.000 | 118.386 | 0.000 | 118.390 |
| 40.000 | 0.000 | 0.000 | 5.641 | 5.641 | 0.000 | 230.909 | 0.000 | 230.914 |
| 60.000 | 0.000 | 0.000 | 6.114 | 6.114 | 0.000 | 347.881 | 0.000 | 347.886 |
| 80.000 | 0.000 | 0.000 | 6.003 | 6.003 | 0.000 | 470.094 | 0.000 | 470.100 |
| 84.817 | 0.000 | 0.000 | 5.964 | 5.964 | 0.000 | 498.887 | 0.000 | 498.893 |

Istram 22.11.11.15 21/11/22 11:13:55 200315
 PROYECTO :
 EJE: 330: ACUERDO 211-210(1001).DA

 D E S B R O C E S

PK inicial : 0.000
 PK final : 27.880

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-----------|----------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 6.162 | 6.216 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 6.219 | 6.250 | 0.000 | 148.240 | 0.000 | 149.887 |
| 27.880 | 0.000 | 0.000 | 2.862 | 2.862 | 0.000 | 179.029 | 0.000 | 180.687 |

Istram 22.11.11.15 21/11/22 11:13:56 200315
 PROYECTO :
 EJE: 330: ACUERDO 211-210(1001).IA

 D E S B R O C E S

PK inicial : 0.000
 PK final : 25.654

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-----------|----------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 3.319 | 3.319 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 6.842 | 7.282 | 0.000 | 131.252 | 0.000 | 135.209 |
| 25.654 | 0.000 | 0.000 | 6.238 | 6.699 | 0.000 | 167.755 | 0.000 | 174.266 |

Istram 22.11.11.15 21/11/22 11:13:56 200315
 PROYECTO :
 EJE: 330: ACUERDO 212-210(1001).DA

 D E S B R O C E S

PK inicial : 0.000
 PK final : 18.081

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-----------|----------|-----------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| 0.000 | 0.000 | 0.000 | 6.023 | 6.289 | 0.000 | 0.000 | 0.000 | 0.000 |
| 18.081 | 0.000 | 0.000 | 3.053 | 3.053 | 0.000 | 105.072 | 0.000 | 106.271 |

Istram 22.11.11.15 21/11/22 11:13:57 200315
 PROYECTO :
 EJE: 330: ACUERDO 212-210(1001).IA

 D E S B R O C E S

PK inicial : 0.000
 PK final : 23.949

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 2.855 | 2.855 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 6.166 | 6.348 | 0.000 | 123.379 | 0.000 | 125.871 |
| 23.949 | 1.063 | 1.063 | 4.697 | 4.869 | 0.618 | 146.148 | 0.618 | 149.325 |

Istram 22.11.11.15 21/11/22 11:13:57 200315
 PROYECTO :
 EJE: 330: ACUERDO 283-210(1001).DA

 D E S B R O C E S

PK inicial : 0.000
 PK final : 23.151

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 5.870 | 6.157 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 3.562 | 3.562 | 0.000 | 129.865 | 0.000 | 132.802 |
| 23.151 | 0.000 | 0.000 | 3.117 | 3.117 | 0.000 | 140.206 | 0.000 | 143.142 |

Istram 22.11.11.15 21/11/22 11:13:58 200315
 PROYECTO :
 EJE: 330: ACUERDO 283-210(1001).IA

 D E S B R O C E S

PK inicial : 0.000
 PK final : 31.546

| P.K. | ANCHOS OCUPADOS | | | | AREA DE DESBROCE EN PLANTA | | SUPERFICIE REAL | |
|--------|-----------------|-------|-----------|-------|----------------------------|-----------|-----------------|-----------|
| | DESMONTE | | TERRAPLEN | | DESMONTE | TERRAPLEN | DESMONTE | TERRAPLEN |
| | PLANTA | REAL | PLANTA | REAL | | | | |
| 0.000 | 0.000 | 0.000 | 3.098 | 3.098 | 0.000 | 0.000 | 0.000 | 0.000 |
| 20.000 | 0.000 | 0.000 | 7.662 | 7.827 | 0.000 | 138.058 | 0.000 | 139.554 |
| 31.546 | 0.000 | 0.000 | 6.265 | 6.360 | 0.000 | 216.753 | 0.000 | 219.751 |