ROVELLA CARRANZA

CONSORCIO
ROVELLA CARRANZA S.A. Y ASOCIADOS

MINISTERIO DE OBRAS PÚBLICAS Y COMUNICACIONES - DIRECCIÓN DE VIALIDAD
LICITACION PUBLICA NACIONAL N° 85/2014
OBRA: HABILITACION DE LA RN 9, TRAMO MCAL. ESTIGARRIBIA - LA PATRIA (58 KM) Y MANTENIMIENTO DEL TRAMO LA PATRIA - TTE. INFANTE RIVAROLA (115 KM) - FASE II
CONTRATISTA: CONSORCIO ROVELLA CARRANZA S.A. Y ASOCIADOS

CONVENIO MODIFICATORIO N° 04

## CANTIDADES Y PRESUPUESTOS COMPARATIVOS ADENDA - CM 04 - ANEXO 2

EJECUCION DE LAS OBRAS DE RECOSNTRUCION DE LA RUTA N° 9 EN EL TRAMO MARISCAL ESTIGARRIBIA - LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800, y 580+000 al 630+000)

| ÍTEM | SECC. EE. TT. | DESCRIPCIÓN | Un. | PRECIO UNITARIO | CANTIDADES | | | | | Diferencia de Cantidades C.M.N° 03 - C.M.N°04 | PRECIO TOTAL | | | | | Incremento de Precios C.M.N°: 03 - C.M.N°04 | % de Incidencia por Item | % de Incidencia sobre Contrato |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CONTRACTUAL | S/ RESOLUCION MINISTERIAL 2165 | C.M. N°: 02 | C.M. N°03 | C.M. N°04 | | CONTRACTUAL | S/ RESOLUCION MINISTERIAL 2165 | C.M. N°: 02 | C.M. N°03 | C.M. N°04 | | | |
| | 1 | MOVIMIENTO DE SUELO | | | | | | | | | | | | | | | | |
| 1 | 1.1 | Limpieza de Franja de Dominio | km | 8,433.099 | 64.10 | 64.10 | 25.06 | 35.81 | 35.81 | 0.00 | 540,561,646 | 540,561,646 | 211,366,256 | 301,951,795 | 301,951,795 | 0 | 0.00% | 0.00% |
| 2 | 1.2 | Excavación No Clasificada | m3 | 26.215 | 15,384.00 | 15,384.00 | 92,226.40 | 99,752.80 | 99,752.80 | 0.00 | 403,291,560 | 403,291,560 | 2,417,715,076 | 2,615,019,652 | 2,615,019,652 | 0 | 0.00% | 0.00% |
| 3 | 1.3 | Excavación de Zanjas de Drenaje | m3 | 26.215 | 1,282.00 | 1,282.00 | 1,282.00 | 0.00 | 0.00 | 0.00 | 33,607,630 | 33,607,630 | 33,607,630 | 0 | 0 | 0 | | 0.00% |
| 4 | 1.4 | Terraplén | m3 | 41.457 | 32,155.00 | 32,155.00 | 130,379.94 | 133,317.66 | 133,317.66 | 0.00 | 1,333,049,835 | 1,333,049,835 | 5,405,161,255 | 5,526,950,428 | 5,526,950,428 | 0 | 0.00% | 0.00% |
| 5 | 1.5 | Base de Asiento para Suelo Cemento microfisurado | m3 | 33.143 | 139,296.00 | 139,296.00 | 145,723.60 | 139,982.00 | 139,982.00 | 0.00 | 4,616,687,328 | 4,616,687,328 | 4,829,717,275 | 4,639,423,426 | 4,639,423,426 | 0 | 0.00% | 0.00% |
| 6 | 1.6 | Remoción de Capa de Suelo Cemento Existente | m3 | 13.751 | 92,304.00 | 92,304.00 | 80,433.60 | 139,212.00 | 91,158.08 | -48,053.92 | 1,269,272,304 | 1,269,272,304 | 1,106,042,434 | 1,914,304,212 | 1,253,514,758 | -660,789,454 | -34.52% | -0.21% |
| | 2 | PAVIMENTOS | | | | | | | | | | | | | | | | |
| | 2.2 | Capa de Concreto Asfáltico con Polímero | | | | | | | | | | | | | | | | |
| 7 | 2.2.1 | Base Inferior de Concreto Asfáltico con Polimero | m3 | 1621745 | 23,454.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38,036,407,230 | 0 | 0 | 0 | 0 | 0 | | 0.00% |
| 8 | 2.2.2 | Base Superior de concreto Asfáltico con Polimero | m3 | 1608316 | 23,133.50 | 43,604.40 | 43,839.60 | 43,579.90 | 43,579.90 | 0.00 | 37,205,978,186 | 70,129,654,190 | 70,507,930,114 | 70,090,250,448 | 70,090,250,448 | 0 | 0.00% | 0.00% |
| 9 | 2.2.3 | Carpeta de Concreto Asfáltico con Polimero | m3 | 1677930 | 22,813.00 | 32,880.47 | 33,057.12 | 32,956.67 | 32,956.67 | 0.00 | 38,278,617,090 | 55,171,127,027 | 55,467,524,972 | 55,298,976,903 | 55,298,976,903 | 0 | 0.00% | 0.00% |
| 11 | 2.2.5 | Lomadas en Banquina | Un. | 92,168 | 3,205.00 | 3,205.00 | 3,205.00 | 3,205.00 | 3,223.00 | 18.00 | 295,398,440 | 295,398,440 | 295,398,440 | 295,398,440 | 297,057,464 | 1,659,024 | 0.56% | 0.00% |
| 12 | 2.3 | Tratamiento Superficial Simple en Banquina | m2 | 9,086 | 166,660.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,514,272,760 | 0 | 0 | 0 | 0 | 0 | | 0.00% |
| 13 | 2.5 | Base de Suelo Ripio en Banquina | m3 | 519,613 | 17,563.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9,126,170,964 | 0 | 0 | 0 | 0 | 0 | | 0.00% |
| 14 | 2.8 | Sub Rasante de Suelo Seleccionado; CBR>12 % | m3 | 35,307 | 212,580.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7,505,562,060 | 0 | 0 | 0 | 0 | 0 | | 0.00% |
| | 2.11 | Riegos con Material Asfáltico | | | | | | | | | | | | | | | | |
| 15 | 2.11.1 | Riego de Imprimación | lts | 7,363 | 806,014.00 | 773,400.00 | 777,600.00 | 630,496.87 | 630,496.87 | 0.00 | 5,949,407,082 | 5,694,544,200 | 5,725,468,800 | 4,642,348,429 | 4,642,348,429 | 0 | 0.00% | 0.00% |
| 16 | 2.11.2 | Riego de Liga | lts | 6,217 | 562,896.00 | 437,260.00 | 192,110.00 | 188,530.66 | 188,886.95 | 356.29 | 3,499,524,432 | 2,718,445,420 | 1,194,347,870 | 1,172,095,110 | 1,174,310,159 | 2,215,049 | 0.19% | 0.00% |
| | 3 | OBRAS COMPLEMENTARIAS | | | | | | | | | | | | | | | | |
| 17 | 3.1 | Protección Vegetal de Taludes | m2 | 4,086 | 320,500.00 | 320,500.00 | 320,500.00 | 863,125.00 | 863,125.00 | 0.00 | 1,309,563,000 | 1,309,563,000 | 1,309,563,000 | 3,526,728,750 | 3,526,728,750 | 0 | 0.00% | 0.00% |
| 18 | 3.2 | Señalización Vertical | m2 | 1,565,283 | 128.20 | 128.20 | 128.20 | 167.04 | 182.98 | 15.94 | 200,669,281 | 200,669,281 | 200,669,281 | 261,454,872 | 286,411,570 | 24,946,698 | 9.54% | 0.01% |
| 19 | 3.3 | Señalización Horizontal | m2 | 32,610 | 19,230.00 | 19,230.00 | 19,230.00 | 16,641.24 | 16,641.24 | 0.00 | 627,090,300 | 627,090,300 | 627,090,300 | 542,670,755 | 542,670,755 | 0 | 0.00% | 0.00% |
| 20 | 3.5 | Reposición de Mojones de Kilometraje | Un. | 349,053 | 64.00 | 64.00 | 64.00 | 65.00 | 65.00 | 0.00 | 22,339,392 | 22,339,392 | 22,339,392 | 22,688,445 | 22,688,445 | 0 | 0.00% | 0.00% |
| 21 | 3.7 | Cordón de Hormigón | ml. | 130,440 | 126.00 | 126.00 | 126.00 | 542.50 | 411.80 | -130.70 | 16,435,440 | 16,435,440 | 16,435,440 | 70,763,700 | 53,715,192 | -17,048,508 | -24.09% | -0.01% |
| 22 | 3.9 | Baranda de Defensa Tipo Flex Beam | ml. | 228,531 | 9,500.00 | 9,500.00 | 9,500.00 | 13,244.00 | 13,244.00 | 0.00 | 2,171,044,500 | 2,171,044,500 | 2,171,044,500 | 3,026,664,564 | 3,026,664,564 | 0 | 0.00% | 0.00% |
| 23 | 3.10 | Pórtico de Señalización | Un. | 83,481.60 | 4.00 | 4.00 | 4.00 | 0.00 | 0.00 | 0.00 | 333,926,400 | 333,926,400 | 333,926,400 | 0 | 0 | 0 | | 0.00% |
| 24 | 2.2.4 | Sub Base de Suelo-Cemento microfisurado a 18 kg/cm2 | m3 | 396,344 | | 108,970.00 | 109,565.00 | 110,219.50 | 110,219.50 | 0.00 | 0 | 40,032,417,870 | 39,042,830,360 | 39,276,057,508 | 39,276,057,508 | 0 | 0.00% | 0.00% |
| SUB TOTAL I.V.A. INCLUIDO | | | | | | | | | | | 154,288,876,850 | 186,919,125,763 | 190,918,178,795 | 193,223,757,437 | 192,574,740,246 | -649,017,191 | | -0.21% |

-649,017,191

Folio Nº: 016 (DieciSeis)

Ing. Ezequiel Romano
Representante Legal

ROVELLA CARRANZA

CONSORCIO
ROVELLA CARRANZA S.A. Y ASOCIADOS

Concret Mix S.A.

MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES - DIRECCION DE VIALIDAD
LICITACION PUBLICA NACIONAL N° 86/2014
OBRA: HABILITACION DE LA RN 9, TRAMO MCAL. ESTIGARRIBIA - LA PATRIA (58 KM) Y MANTENIMIENTO DEL TRAMO LA PATRIA - TTE. INFANTE RIVAROLA (115 KM) - FASE II
CONTRATISTA: CONSORCIO ROVELLA CARRANZA S.A. Y ASOCIADOS

CONVENIO MODIFICATORIO N° 04

## CANTIDADES Y PRESUPUESTOS COMPARATIVOS ADENDA - CM 04 - ANEXO 2

EJECUCION DE LAS OBRAS DE RECAPADO EN EL RAMAL LA PATRIA - INFANTE RIVAROLA (de progresiva 647+000 a progresiva 761+200)

| ITEM | SECC. EE. TT. | DESCRIPCION | Un. | PRECIO UNITARIO | CANTIDADES | | | | | Diferencia de Cantidades C.M N° 03 - C.M N°04 | PRECIO TOTAL | | | | | Incremento de Precios C.M N°. 03 - C.M N°04 | % de Incidencia por Item | % de Incidencia sobre Contrato |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CONTRACTUAL | S/ RESOLUCION MINISTERIAL 2165 | C.M. N°. 02 | C.M. N°03 | C.M. N°04 | | CONTRACTUAL | S/ RESOLUCION MINISTERIAL 2165 | C.M. N°. 02 | C.M. N°03 | C.M. N°04 | | | |
| | 1 | MOVIMIENTO DE SUELO | | | | | | | | | | | | | | | | |
| 1 | 1.1 | Limpieza de Franja de Dominio | km | 8.433.277 | 115 | 114,60 | 44,57 | 63,65 | 63,65 | 0,00 | 966.453.544 | 966.453.544 | 375.843.045 | 536.740.600 | 536.740.600 | 0 | 0,00% | 0,00% |
| 2 | 1.3 | Excavación de Zanjas de Drenaje | m3 | 26.211 | 2.292 | 2.292,00 | 2.292,00 | 300,00 | 312,00 | 12,00 | 60.075.612 | 60.075.612 | 60.075.612 | 7.863.300 | 8.177.832 | 314.532 | 4,00% | 0,00% |
| 3 | 1.4 | Terraplén | m3 | 48.449 | 6.650 | 6.650,00 | 6.650,00 | 2.881,69 | 2.881,69 | 0,00 | 322.185.850 | 322.185.850 | 322.185.850 | 139.615.229 | 139.615.229 | 0 | 0,00% | 0,00% |
| | 2 | PAVIMENTOS | | | | | | | | | | | | | | | | |
| | 2.2 | Capa de Concreto Asfáltico con Polímero | | | | | | | | | | | | | | | | |
| 4 | 2.2.2 | Base Superior de concreto Asfáltico con Polímero | m3 | 1.703.160 | 13.995 | 13.995,00 | 13.995,00 | 12.663,22 | 12.867,73 | 204,51 | 23.835.724.200 | 23.835.724.200 | 23.835.724.200 | 21.567.493.182 | 21.915.801.430 | 348.308.248 | 1,61% | 0,11% |
| 5 | 2.2.3 | Carpeta de Concreto Asfáltico con Polímero | m3 | 1.781.479 | 44.254 | 44.253,63 | 44.240,80 | 46.003,51 | 47.252,70 | 1.249,19 | 78.836.912.519 | 78.836.912.519 | 78.814.056.143 | 81.954.286.991 | 84.179.697.197 | 2.225.410.206 | 2,72% | 0,72% |
| 6 | 2.2.5 | Lomadas en Banquina | Un. | 92.430 | 5.730 | 5.730,00 | 5.730,00 | 5.729,00 | 5.729,00 | 0,00 | 529.623.900 | 529.623.900 | 529.623.900 | 529.531.470 | 529.531.470 | 0 | 0,00% | 0,00% |
| 7 | 2.3 | Tratamiento Superficial Simple en Banquina | m2 | 10.200 | 297.960 | 297.960,00 | 0,00 | 0,00 | 0,00 | 0,00 | 3.039.192.000 | 3.039.192.000 | 0 | 0 | 0 | 0 | | 0,00% |
| 8 | 2.5 | Base de Suelo Ripio en Banquina | m3 | 573.081 | 33.830 | 33.830,40 | 0,00 | 1.596,82 | 1.685,22 | 88,39 | 19.387.559.462 | 19.387.559.462 | 0 | 915.108.263 | 965.765.027 | 50.656.764 | 5,54% | 0,02% |
| 9 | 2.8 | Sub Rasante de Suelo Seleccionado; CBR>12 % | m3 | 33.310 | 2.250 | 2.250,00 | 2.250,00 | 2.661,37 | 2.808,69 | 147,32 | 74.947.500 | 74.947.500 | 74.947.500 | 88.650.226 | 93.557.551 | 4.907.325 | 5,54% | 0,00% |
| | 2.11 | Riegos con Material Asfaltico | | | | | | | | | | | | | | | | |
| 10 | 2.11.1 | Riego de Imprimación | lts | 7.453 | 365.052 | 365.052,00 | 31.640,00 | 9.652,54 | 9.652,54 | 0,00 | 2.720.732.556 | 2.720.732.556 | 235.812.920 | 71.940.350 | 71.940.350 | 0 | 0,00% | 0,00% |
| 11 | 2.11.2 | Riego de Liga | lts | 6.243 | 447.120 | 447.120,00 | 619.020,00 | 533.887,26 | 560.442,98 | 26.555,72 | 2.791.370.160 | 2.791.370.160 | 3.864.541.860 | 3.333.058.143 | 3.498.845.504 | 165.787.361 | 4,97% | 0,05% |
| | 2.12 | Bacheo | | | | | | | | | | | | | | | | |
| 12 | 2.12.1 | Bacheo Superficial | m3 | 2.566.355 | | 0,00 | 3.034,00 | 5.180,25 | 4.589,37 | -590,88 | 0 | 0 | 7.786.320.185 | 13.294.353.453 | 11.777.957.930 | -1.516.395.523 | -11,41% | -0,49% |
| 13 | 2.12.2 | Bacheo Intermedio | m3 | 1.385.070 | | 0,00 | 1.654,00 | 0,00 | 0,00 | 0,00 | 0 | 0 | 2.290.905.780 | 0 | 0 | 0 | | 0,00% |
| 14 | 2.12.3 | Bacheo Profundo | m3 | 997.862 | | 0,00 | 3.230,00 | 65,69 | 58,19 | -7,50 | 0 | 0 | 3.223.094.260 | 65.547.060 | 58.063.095 | -7.483.965 | -11,42% | 0,00% |
| 15 | 2.12.4 | Sellado de Fisuras | ml. | 14.528 | | 0,00 | 9.970,20 | 0,00 | 0,00 | 0,00 | 0 | 0 | 144.847.066 | 0 | 0 | 0 | | 0,00% |
| 16 | 2.12.5 | Capa de Concreto Asfáltico con Polímero para Banquina | m3 | 1.976.731 | | 0,00 | 16.458,36 | 15.185,61 | 15.067,00 | -118,61 | 0 | 0 | 32.533.404.796 | 30.017.856.157 | 29.783.405.977 | -234.450.180 | -0,78% | -0,08% |
| 17 | 2.13 | Hormigón fck 150 kg/cm2 | m3 | 1.376.493 | 0 | 0,00 | 0,00 | 3,84 | 3,84 | 0,00 | 0 | 0 | 0 | 5.285.733 | 5.285.733 | 0 | 0,00% | 0,00% |
| 18 | 2.14 | Hormigón fck 240 kg/cm2 | m3 | 1.833.770 | 0 | 0,00 | 0,00 | 17,04 | 17,04 | 0,00 | 0 | 0 | 0 | 31.247.441 | 31.247.441 | 0 | 0,00% | 0,00% |
| 19 | 2.15 | Acero para Alcantarillas | tn | 7.278.656 | 0 | 0,00 | 0,00 | 2,32 | 2,32 | 0,00 | 0 | 0 | 0 | 16.857.367 | 16.857.367 | 0 | 0,00% | 0,00% |
| | 3 | OBRAS COMPLEMENTARIAS | | | | | | | | | | | | | | | | |
| 20 | 3.1 | Protección Vegetal de Taludes | m2 | 4.086 | 458.400 | 458.400,00 | 458.400,00 | 458.248,00 | 458.248,00 | 0,00 | 1.873.022.400 | 1.873.022.400 | 1.873.022.400 | 1.872.401.328 | 1.872.401.328 | 0 | 0,00% | 0,00% |
| 21 | 3.2 | Señalización Vertical | m2 | 1.565.277 | 229 | 229,20 | 229,20 | 276,87 | 354,84 | 77,98 | 358.761.488 | 358.761.488 | 358.761.488 | 433.370.417 | 555.426.804 | 122.056.387 | 28,16% | 0,04% |
| 22 | 3.3 | Señalización Horizontal | m2 | 32.610 | 34.380 | 34.380,00 | 34.380,00 | 32.382,56 | 32.120,07 | -262,49 | 1.121.131.800 | 1.121.131.800 | 1.121.131.800 | 1.055.995.220 | 1.047.435.503 | -8.559.717 | -0,81% | 0,00% |
| 23 | 3.5 | Reposición de Mojones de Kilometraje | Un. | 349.059 | 114 | 114,00 | 114,00 | 5,00 | 9,00 | 4,00 | 39.792.726 | 39.792.726 | 39.792.726 | 1.745.295 | 3.141.531 | 1.396.236 | 80,00% | 0,00% |
| 24 | 3.6.1 | Tacha Reflectiva Bidireccional | Un. | 32.610 | 772 | 772,00 | 772,00 | 772,00 | 772,00 | 0,00 | 25.174.920 | 25.174.920 | 25.174.920 | 25.174.920 | 25.174.920 | 0 | 0,00% | 0,00% |
| 25 | 3.6.2 | Tachones Reflectivos Bidireccional | Un. | 81.652 | 105 | 105,00 | 105,00 | 105,00 | 105,00 | 0,00 | 8.573.460 | 8.573.460 | 8.573.460 | 8.573.460 | 8.573.460 | 0 | 0,00% | 0,00% |
| 26 | 3.7 | Cordón de Hormigón | ml. | 130.440 | 617 | 617,00 | 617,00 | 727,00 | 769,70 | 42,70 | 80.481.480 | 80.481.480 | 80.481.480 | 94.829.880 | 100.399.668 | 5.569.788 | 5,87% | 0,00% |
| 27 | 3.9 | Baranda de Defensa Tipo Flex Beam | ml. | 228.531 | 3.900 | 3.900,00 | 3.900,00 | 3.348,00 | 3.364,00 | 16,00 | 891.270.900 | 891.270.900 | 891.270.900 | 765.121.788 | 768.778.284 | 3.656.496 | 0,48% | 0,00% |
| 28 | 3.10 | Porticos de Señalizacion | Un. | 83.481.600 | 4 | 4,00 | 4,00 | 0,00 | 0,00 | 0,00 | 333.926.400 | 333.926.400 | 333.926.400 | 0 | 0 | 0 | | 0,00% |
| | 3.11 | Iluminacion | | | | | | | | 0,00 | | | | 0 | 0 | 0 | | |
| 29 | 3.11.1 | Intercepción La Patria | gl | 157.180.200 | 1 | 1,00 | 1,00 | 0,00 | 0,00 | 0,00 | 157.180.200 | 157.180.200 | 157.180.200 | 0 | 0 | 0 | | 0,00% |
| 30 | 3.11.2 | Intercepción Infante Rivarola | gl | 157.180.200 | 1 | 1,00 | 1,00 | 0,00 | 0,00 | 0,00 | 157.180.200 | 157.180.200 | 157.180.200 | 0 | 0 | 0 | | 0,00% |
| SUB TOTAL I.V.A. INCLUIDO | | | | | | | | | | | 137.611.273.278 | 137.611.273.278 | 159.137.879.092 | 156.832.647.273 | 157.993.821.231 | 1.161.173.958 | | 0,38% |
| | | | | | | | | | | | | | | | | -1.161.173.958 | | |

Folio Nº: 017 (Diecisiete)

ING. EZEQUIEL ROMANO
REPRESENTANTE TECNICO
Consorcio Rovella Carranza S.A. y Asoc.

ROVELLA CARRANZA

CONSORCIO ROVELLA CARRANZA S.A. Y ASOCIADOS

Concret Mix S.A.

MINISTERIO DE OBRAS PÚBLICAS Y COMUNICACIONES - DIRECCIÓN DE VIALIDAD
LICITACIÓN PÚBLICA NACIONAL N° 86/2014
OBRA: HABILITACION DE LA RN 9, TRAMO MCAL. ESTIGARRIBIA - LA PATRIA (58 KM) Y MANTENIMIENTO DEL TRAMO LA PATRIA - TTE. INFANTE RIVAROLA (115 KM) - FASE II
CONTRATISTA: CONSORCIO ROVELLA CARRANZA S.A. Y ASOCIADOS

CONVENIO MODIFICATORIO N° 04

## CANTIDADES Y PRESUPUESTOS COMPARATIVOS ADENDA - CM 04 - ANEXO 2

EJECUCION DE LAS OBRAS DE RECOSNTRUCION DE LA RUTA N° 9 EN EL TRAMO MARISCAL ESTIGARRIBIA - LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800, y 580+000 al 630+000) Y OBRAS DE RECAPADO EN EL RAMAL LA PATRIA - INFANTE RIVAROLA (de progresiva 647+000 a progresiva 761+200)

| ITEM | SECC. EE. TT. | DESCRIPCIÓN | Un. | PRECIO UNITARIO | CANTIDADES | | | | | Diferencia de Cantidades C.M.N°: 03 - C.M.N°04 | PRECIO TOTAL | | | | | Incremento de Precios C.M.N°: 03 - C.M.N°04 | % de Incidencia por Item | % de Incidencia sobre Contrato |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CONTRACTUAL | S/ RESOLUCION MINISTERIAL 2165 | C.M. N°: 02 | C.M. N°03 | C.M. N°04 | | CONTRACTUAL | S/ RESOLUCION MINISTERIAL 2165 | C.M. N°: 02 | C.M. N°03 | C.M. N°04 | | | |
| | 4 | **OBRAS DE SEGURIDAD VIAL** | | | | | | | | | | | | | | | | |
| 1 | 4.1 | Señalización Transitoria en Zona de Obras | gl. | 782,640,000 | 1 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 782,640,000 | 782,640,000 | 782,640,000 | 782,640,000 | 782,640,000 | 0 | 0.00% | 0.00% |
| 2 | 4.2 | Planes de Manejo de Tránsito en Construcción | gl. | 1,146,975,687 | 1 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1,146,975,687 | 1,146,975,687 | 1,146,975,687 | 1,146,975,687 | 1,146,975,687 | 0 | 0.00% | 0.00% |
| | 5 | **SERVICIOS ESPECIALIZADOS** | | | | | | | | | | | | | | | | |
| | 5.1 | Servicios Especializados | gl | 4,344,688,677 | 1 | 1.00 | 1.3112 | 1.3112 | 1.06 | -0.26 | 4,344,688,677 | 4,344,688,677 | 5,696,842,687 | 5,696,842,687 | 4,587,587,555 | -1,109,255,132 | -19.47% | -0.36% |
| | 6 | **MOVILIZACION DE OBRA** | | | | | | | | | | | | | | | | |
| 12 | 6.1 | Movilizacion de Obra | gl | 9,183,773,199 | 1 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9,183,773,199 | 9,183,773,199 | 9,183,773,199 | 9,183,773,199 | 9,183,773,199 | 0 | 0.00% | 0.00% |
| SUB TOTAL I.V.A. INCLUIDO | | | | | | | | | | | **15,458,077,563** | **15,458,077,563** | **16,810,231,572** | **16,810,231,573** | **15,700,976,441** | -1,109,255,132 | | **-0.36%** |

| | | | | | |
|---|---|---|---|---|---|
| TOTAL I.V.A. INCLUIDO | **307,358,227,700** | **339,988,476,603** | **366,866,636,283** | **366,866,636,283** | **366,269,537,918** | -597,098,365 |
| PORCENTAJE RESPECTO AL MONTO DEL CONTRATO | **100%** | **110.62%** | **119.36%** | **119.36%** | **119.17%** | **-0.19%** |

Ing. Ezequiel Romano
Representante Legal

Folio Nº: 018 (DieciOcho)

**ITEM** Servicios Especializados

| Actividades / Insumos | Un. | Consumo | Unit Gs | Total Gs | CANTIDADES ANTERIOR | dic-17 | ene-18 | feb-18 | mar-18 | abr-18 | may-18 | jun-18 | jul-18 | ago-18 | sep-18 | oct-18 | nov-18 | dic-18 | ene-19 | feb-19 | mar-19 | abr-19 | may-19 | jun-19 | jul-19 | ago-19 | CANTIDAD CONTRACTUAL: PRESENTE | ACUMULADO | 1,31 gl. MONTO PARCIAL | ACUMULADO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aditivo | mes | | 400.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Computadora | Un | 3 | 6.299.999 | 18.899.997 | 3,00 | | | | | | | | | | | | | | | | | | | | | | | 3,00 | - | 18.899.997 |
| Fotocopiadora Multifuncional | gl | 1 | 31.500.000 | 31.500.000 | | | | | | | | | | | | | | | | | | | | | | | | - | - |
| Gasoil | lts. | 52800 | 5.300 | 279.840.000 | 25.040,00 | | | | | | | | 755,00 | | | | | | | | | | | | | | | - | - |
| Gas oil en Asuncion | lts. | 36000 | 4.950 | 178.200.000 | 31.012,00 | | | | | | | | 810,00 | 400,00 | 400,00 | 400,00 | 400,00 | 400,00 | 400,00 | 400,00 | 400,00 | 400,00 | 400,00 | 400,00 | 400,00 | | | 755,00 | 25.795,00 | 4.001.500,00 | 136.713.500 |
| Impresora a chorro | Un. | 2 | 1.500.000 | 3.000.000 | 2,00 | | | | | | | | | | | | | | | | | | | | | | 5.610,00 | 36.622,00 | 27.769.500,00 | 181.278.000 |
| Insumos de oficina | mes | 45 | 333.333 | 15.000.000 | 11,42 | | | | | | | | | | | | | | | | | | | | | | | 2,00 | - | 3.000.000 |
| Luz | mes | 72 | 600.000 | 43.200.000 | 59,86 | | | | | | | | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | 2,83 | | | 11,42 | - | 3.808.000 |
| Mantenimiento de Camioneta | mes | 111 | 1.500.000 | 166.500.000 | 39,31 | | | | | | | | 3,21 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | | | 36,79 | 96,66 | 22.074.000,00 | 47.987.240 |
| Mueblerio para Oficina | gl | 2 | 40.000.000 | 80.000.000 | | | | | | | | | | | | | | | | | | | | | | | | 15,21 | 54,60 | 22.800.000,00 | 81.783.540 |
| Movilidad | mes | 111 | 6.124.999 | 679.874.889 | 85,00 | | | | | | | | 3,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | | | | | - | - |
| Oficina de campo | mes | 30 | 2.000.000 | 60.000.000 | 30,00 | | | | | | | | 1,00 | | | | | | | | | | | | | | | 15,00 | 100,00 | 91.874.985,00 | 612.499.900 |
| Oficina en el microcentro | gl | 1 | 750.000.000 | 750.000.000 | 0,47 | | | | | | | | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | 0,02 | | | 1,00 | 31,00 | 2.000.000,00 | 62.000.000 |
| Personal de apoyo | gl | 30 | 32.000.000 | 960.000.000 | 16,64 | | | | | | | | 0,58 | 0,50 | 0,50 | 0,50 | 0,50 | 0,50 | 0,50 | 0,50 | 0,50 | 0,50 | 0,50 | 0,50 | 0,50 | | | 0,228 | 0,70 | 170.831.667,00 | 534.844.267 |
| Seguro de Camioneta | mes | 111 | 550.000 | 61.050.000 | 85,00 | | | | | | | | 3,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | 1,00 | | | 6,62 | 23,46 | 211.885.564,60 | 750.819.460 |
| Instalaciones de señales debiles | gl | 1 | 95.700.000 | 95.700.000 | 0,37 | | | | | | | | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | | | 15,00 | 100,00 | 8.250.000,00 | 55.000.000 |
| Telefono Movil | mes | 162 | 150.000 | 24.300.000 | 90,00 | | | | | | | | 3,00 | | | | | | | | | | | | | | | 1.144 | 1.53 | 109.490.800,00 | 146.243.690 |
| Viaticos del Personal | mes | 3 | 600.000 | 1.800.000 | | | | | | | | | | | | | | | | | | | | | | | | 3,00 | 93,00 | 450.000,00 | 13.950.000 |
| Equipamiento Oficina Central UCP-CAF-MOPC | gl | 1 | 180.000.000 | 180.000.000 | 0,54 | | | | | | | | | | | | | | | | | | | | | | | | | - | - |
| Hospedaje y Consumición | gl | 30 | 6.420.000 | 192.600.000 | 26,04 | | | | | | | | 0,80 | | | | | | | | | | | | | | | 0,543 | - | 97.808.069 |
| **Equipos de laboratorio** | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0,800 | 26,84 | 5.136.000,00 | 172.333.363 |
| Viscosimetro rotacional | un | 1,00 un | 131.955.000 | 131.955.000 | 1,00 | | | | | | | | | | | | | | | | | | | | | | | | | - | - |
| Equipo de medicion de ahuellamiento de lab (wheel tracking test) | un | 1,00 un | 74.080.000 | 74.080.000 | 1,00 | | | | | | | | | | | | | | | | | | | | | | | 1,00 | - | 131.955.000 |
| Perfilometro estático de referencia | un | 1,00 un | 55.560.000 | 55.560.000 | 1,00 | | | | | | | | | | | | | | | | | | | | | | | 1,00 | - | 74.080.000 |
| Controlador de compactación no nuclear | un | 1,00 un | 74.080.000 | 74.080.000 | 1,00 | | | | | | | | | | | | | | | | | | | | | | | 1,00 | - | 55.560.000 |
| Deflectómetro de impacto Rolano (LWD) | un | 1,00 un | 162.050.000 | 162.050.000 | 1,00 | | | | | | | | | | | | | | | | | | | | | | | 1,00 | - | 74.080.000 |
| Mantenimiento deflectometro FWD | gl | 1,00 un | 130.000.000 | 130.000.000 | 0,78 | | | | | | | | | | | | | | | | | | | | | | | 1,00 | - | 162.050.000 |
| | | TOTALES | | 4.367.389.880 | | | | | | | | | | | | | | | | | | | | | | | | 0,78 | - | 101.314.903 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 676.574.067 Gs | 3.517.009.779 Gs |

**Total CM 03:** 4.367.389.880 Gs
**Total a Certificar:** 3.517.009.779 Gs
**Diferencia:** 850.380.101 Gs

**José D. Bogarín C.**
**Representante Legal**

ING. EZEQUIEL ROMANO
REPRESENTANTE TECNICO
Consorcio Rovella Carranza S.A. y Asoc.

Folio Nº: 019 (DieciNueve)

Ing. Ezequiel Romano
Representante Técnico

Ing. Luis Fernandez
Residente de Fiscalización

EJECUCION DE LAS OBRAS DE RECONSTRUCCIÓN DE LA RUTA Nº 9 EN EL TRAMO MARISCAL ESTIGARRIBIA – LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800 y 580+000 al 630+000)
Llamado MOPC Nº 86/2014

## COMPUTO METRICO - ANEXO 5

### 1.0 MOVIMIENTO DE SUELOS

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud Km | Ancho real | Ancho Proy. | TASA Ha/Km | SUP. Há | Long. Equivalente Km | | CANT a Comp. | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.1 | Limpieza de Franja de Dominio | km | | | | | | | | | | | | 35.81 |
| | | | 548+650 | 562+500 | 13.85 | 50 | 90 | 9.00 | 69 | 7.69 | | 7.69 | 7.69 | |
| | | | 578+200 | 578+800 | 0.60 | 50 | 90 | 9.00 | 3 | 0.33 | | 0.33 | 8.03 | |
| | | | 580+000 | 630+000 | 50.00 | 50 | 90 | 9.00 | 250 | 27.78 | | 27.78 | 35.81 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 35.81 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.2 | Excavacion No Clasificada | m3 | | | | | | | | | | | | 99,752.80 |
| | según Planilla Computo | | 548+650 | 562+500 | 13,850.00 | | | | | | | | - | |
| | | | 580+000 | 630+000 | 50,000.00 | | | | | | | | - | |
| | | | | | | | | | | | | | - | |
| | | | | | | | | | | | | | 99,752.80 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3/km | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.3 | Excavacion de Zanjas de Drenaje | m3 | | | | | | | | | | | | - |
| | | | 549+000 | 562+500 | 13.50 | | | | | 0.00 | | | - | |
| | | | 578+200 | 578+800 | 0.60 | | | | | 0.00 | | | - | |
| | | | 580+000 | 630+000 | 50.00 | | | | | 0.00 | | | - | |
| | | | | | | | | | | | | | - | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.4 | Terraplen | m3 | | | | | | | | | | | | 133,317.66 |
| | según Planilla Computo | | 548+650 | 562+500 | 13,850.00 | | | | | | | | | |
| | | | 580+000 | 630+000 | 50,000.00 | | | | | | | | | |
| | | | 629+000 | 629+640 | 640.00 | | | | | | | | | |
| | | | | | | | | | | | | | 133,317.66 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.5 | Base de Asiento para Suelo Cemento microfisurado | m3 | | | | | | | | | | | | 139,982.00 |
| | En todo el ancho | | 548+650 | 562+500 | 13,850.00 | 10.80 | 0.20 | | 149,580.00 | 29,916.00 | | 1.00 | 29,916.00 | |
| | | | 578+200 | 578+800 | 600.00 | 10.80 | 0.20 | | 6,480.00 | 1,296.00 | | 1.00 | 1,296.00 | |
| | Excavación No Clasificada | | 580+000 | 630+000 | 50,000.00 | 10.80 | 0.20 | | 540,000.00 | 108,000.00 | | 1.00 | 108,000.00 | |
| | | | | | | | | | | | | | - | |
| | En Accesos y darsenas para estacionamiento | | 548+650 | 562+500 | | | 0.20 | | 275.00 | 55.00 | | 3.0 | 165.00 | |
| | | | 580+000 | 630+000 | | | 0.20 | | 275.00 | 55.00 | | 11.0 | 605.00 | |
| | | | | | | | | | | | | | 139,982.00 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho a | Esp. e | COEF | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.6 | Remoción de Capa de Suelo Cemento Existente | m3 | | | | | | | | | | | | 91,158.08 |
| | En calzada | | 548+650 | 562+500 | 13,850.00 | 10.40 | 0.17 | 80% | 144,040.00 | 24,486.80 | | 1.00 | 19,589.44 | |
| | | | 578+200 | 578+800 | 600.00 | 10.40 | 0.17 | 80% | 6,240.00 | 1,060.80 | | 1.00 | 848.64 | |
| | | | 580+000 | 630+000 | 50,000.00 | 10.40 | 0.17 | 80% | 520,000.00 | 88,400.00 | | 1.00 | 70,720.00 | |
| | | | | | | | | | | | | | 91,158.08 | |

### 2.0 PAVIMENTOS

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho m | Esp. m | Lado | SUP. m2 | VOL. m3 | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.1 | Base Inferior de Concreto Asfáltico con Polímero | m3 | | | | | | | | | | | | - |
| | En calzada | | | | | | | | | | | | - | |
| | | | | | | | | | | | | | - | |
| | | | | | | | | | | | | | - | |
| | En Accesos y darsenas para estacionamiento | | | | | | | | | | | | - | |
| | | | | | | | | | | | | | - | |
| | | | | | | | | | | | | | - | |

Ing. Ezequiel Romano
Representante Legal



Folio Nº: 020 (Veinte)

**EJECUCION DE LAS OBRAS DE RECONSTRUCCIÓN DE LA RUTA Nº 9 EN EL TRAMO MARISCAL ESTIGARRIBIA – LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800 y 580+000 al 630+000)**
**Llamado MOPC Nº 86/2014**

## COMPUTO METRICO - ANEXO 5

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS | | Longitud | Ancho | Esp. | Lado | SUP. | VOL. | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | INI. | FIN | m | m | m | | m2 | m3 | | | | |
| 2.2.2 | **Base Superior de concreto Asfáltico con Polímero** | m3 | | | | | | | | | | | | |
| | En calzada | | 548+650 | 562+500 | 13,850.00 | 7.10 | 0.07 | | 98,335.00 | 6,883.45 | | 1.00 | 6,883.45 | **43,579.90** |
| | | | 578+200 | 578+800 | 600.00 | 7.10 | 0.07 | | 4,260.00 | 298.20 | | 1.00 | 298.20 | |
| | | | 580+000 | 630+000 | 50,000.00 | 7.10 | 0.07 | | 355,000.00 | 24,850.00 | | 1.00 | 24,850.00 | |
| | En Accesos y darsenas para estacionamiento | | | | | | | | | | | | | |
| | | | 548+650 | 562+500 | | | 0.07 | | 275.00 | 19.25 | | 3.0 | 57.75 | |
| | | | 580+000 | 630+000 | | | 0.07 | | 275.00 | 19.25 | | 11.0 | 211.75 | |
| | Banquina Asfaltada | | | | | | | | | | | | | |
| | | | 548+650 | 562+500 | 13,850.00 | 1.25 | 0.07 | | 17,312.50 | 1,211.88 | | 2.0 | 2,423.75 | |
| | | | 578+200 | 578+800 | 600.00 | 1.25 | 0.07 | | 750.00 | 52.50 | | 2.00 | 105.00 | |
| | | | 580+000 | 630+000 | 50,000.00 | 1.25 | 0.07 | | 62,500.00 | 4,375.00 | | 2.00 | 8,750.00 | |
| | | | | | | | | | | | | | **43,579.90** | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS | | Longitud | Ancho | Esp. | Lado | SUP. | VOL. | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | INI. | FIN | m | m | m | | m2 | m3 | | | | |
| 2.2.3 | **Carpeta de Concreto Asfáltico con Polímero** | m3 | | | | | | | | | | | | |
| | En calzada | | 548+650 | 562+500 | 13,850.00 | 7.00 | 0.07 | | 96,950.00 | 6,786.50 | | 1.00 | 6,786.50 | **32,956.67** |
| | | | 578+200 | 578+800 | 600.00 | 7.00 | 0.07 | | 4,200.00 | 294.00 | | 1.00 | 294.00 | |
| | | | 580+000 | 630+000 | 50,000.00 | 7.00 | 0.07 | | 350,000.00 | 24,500.00 | | 1.00 | 24,500.00 | |
| | En Accesos y darsenas para estacionamiento | | | | | | | | | | | | | |
| | | | 548+650 | 562+500 | | | 0.07 | | 437.50 | 30.63 | | 3.0 | 91.88 | |
| | | | 580+000 | 630+000 | | | 0.07 | | 437.50 | 30.63 | | 11.0 | 336.88 | |
| | Cuñas en Banquinas | | | | | | | | | | | | | |
| | | | 548+650 | 562+500 | 13,850.00 | 0.21 | 0.07 | | | 101.80 | | 2.0 | 203.60 | |
| | | | 578+200 | 578+800 | 600.00 | 0.21 | 0.07 | | | 4.41 | | 2.0 | 8.82 | |
| | | | 580+000 | 630+000 | 50,000.00 | 0.21 | 0.07 | | | 367.50 | | 2.0 | 735.00 | |
| | | | | | | | | | | | | | **32,956.67** | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS | | Longitud | Ancho | Esp. | Lado | SUP. | VOL. | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | INI. | FIN | m | m | m | | m2 | m3 | | | | |
| 2.2.4 | **Sub Base de Suelo-Cemento microfisurado a 18 kg/cm2** | m3 | | | | | | | | | | | | |
| | En calzada | | 548+650 | 562+500 | 13,850.00 | 10.00 | 0.17 | | 138,500.00 | 23,545.00 | | 1.00 | 23,545.00 | **110,219.50** |
| | | | 578+200 | 578+800 | 600.00 | 10.00 | 0.17 | | 6,000.00 | 1,020.00 | | 1.00 | 1,020.00 | |
| | | | 580+000 | 630+000 | 50,000.00 | 10.00 | 0.17 | | 500,000.00 | 85,000.00 | | 1.00 | 85,000.00 | |
| | En Accesos y darsenas para estacionamiento | | | | | | | | | | | | | |
| | | | 548+650 | 562+500 | 13,850.00 | | 0.17 | | 275.00 | 46.75 | | 3.00 | 140.25 | |
| | | | 578+200 | 578+800 | 600.00 | | 0.17 | | 275.00 | 46.75 | | - | - | |
| | | | 580+000 | 630+000 | 50,000.00 | | 0.17 | | 275.00 | 46.75 | | 11.00 | 514.25 | |
| | | | | | | | | | | | | | **110,219.50** | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS | | Longitud | Ancho | Esp. | Lado | Frecuencia | CANTIDAD | VOL | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | INI. | FIN | m | m | m | | m | Un | lts | | | |
| 2.2.5 | **Lomadas en Banquina** | Un. | | | | | | | | | | | | |
| | En calzada | | 548+650 | 562+500 | 13,850.00 | | | | 40.00 | 346.25 | | 2.00 | 693.00 | **3,223.00** |
| | | | 578+200 | 578+800 | 600.00 | | | | 40.00 | 15.00 | | 2.00 | 30.00 | |
| | | | 580+000 | 630+000 | 50,000.00 | | | | 40.00 | 1,250.00 | | 2.00 | 2,500.00 | |
| | | | | | | | | | | | | | **3,223.00** | |

Ing. Ezequiel Romano
Representante Legal



Folio Nº: 021 (VeintiUno)

**EJECUCION DE LAS OBRAS DE RECONSTRUCCIÓN DE LA RUTA Nº 9 EN EL TRAMO MARISCAL ESTIGARRIBIA – LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800 y 580+000 al 630+000)**
**Llamado MOPC Nº 86/2014**

## COMPUTO METRICO - ANEXO 5

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS | | Longitud | Ancho | Esp. | TASA | SUP. | VOL. | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | INI. | FIN | m | a | e | | m2 | lts | | | | |
| 2.11.1 | Riego de Imprimación | lts | | | | | | | | | | | | 630,496.87 |
| | En calzada y banquina | | | | | | | | | | | | | |
| | | | 562+025 | 561+830 | 195 | 10.00 | | 1.16 | 1,950 | 2,258.00 | | | 2,258.00 | |
| | | | 556+660 | 556+230 | 430 | 10.00 | | 1.04 | 4,300 | 4,470.00 | | | 4,470.00 | |
| | | | 557+160 | 556+660 | 500 | 10.00 | | 0.96 | 5,000 | 4,786.00 | | | 4,786.00 | |
| | | | 557+540 | 557+160 | 380 | 10.00 | | 0.98 | 3,800 | 3,727.00 | | | 3,727.00 | |
| | | | 558+040 | 557+540 | 500 | 10.00 | | 0.98 | 5,000 | 4,917.00 | | | 4,917.00 | |
| | | | 556+230 | 555+920 | 310 | 10.00 | | 1.01 | 3,100 | 3,134.00 | | | 3,134.00 | |
| | | | 558+240 | 558+040 | 200 | 10.00 | | 0.90 | 2,000 | 1,808.00 | | | 1,808.00 | |
| | | | 558+840 | 558+240 | 600 | 10.00 | | 0.91 | 6,000 | 5,455.00 | | | 5,455.00 | |
| | | | 559+340 | 558+840 | 500 | 10.00 | | 1.00 | 5,000 | 5,018.00 | | | 5,018.00 | |
| | | | 559+840 | 559+340 | 500 | 10.00 | | 0.98 | 5,000 | 4,891.00 | | | 4,891.00 | |
| | | | 560+340 | 559+840 | 500 | 10.00 | | 1.06 | 5,000 | 5,295.00 | | | 5,295.00 | |
| | | | 560+840 | 560+340 | 500 | 10.00 | | 0.99 | 5,000 | 4,967.00 | | | 4,967.00 | |
| | | | 561+340 | 560+840 | 500 | 10.00 | | 0.99 | 5,000 | 4,932.00 | | | 4,932.00 | |
| | | | 561+830 | 561+340 | 490 | 10.00 | | 1.00 | 4,900 | 4,918.00 | | | 4,918.00 | |
| | | | 555+920 | 555+420 | 500 | 10.00 | | 0.98 | 5,000 | 4,903.00 | | | 4,903.00 | |
| | | | 555+420 | 554+920 | 500 | 10.00 | | 1.01 | 5,000 | 5,053.00 | | | 5,053.00 | |
| | | | 554+920 | 554+420 | 500 | 10.00 | | 0.97 | 5,000 | 4,855.00 | | | 4,855.00 | |
| | | | 554+420 | 554+040 | 380 | 10.00 | | 0.98 | 3,800 | 3,724.00 | | | 3,724.00 | |
| | | | 554+040 | 553+690 | 350 | 10.00 | | 0.97 | 3,500 | 3,384.50 | | | 3,384.50 | |
| | | | 553+690 | 553+390 | 300 | 10.00 | | 0.98 | 3,000 | 2,935.00 | | | 2,935.00 | |
| | | | 553+390 | 553+000 | 390 | 10.00 | | 1.01 | 3,900 | 3,947.00 | | | 3,947.00 | |
| | | | 553+000 | 552+500 | 500 | 10.00 | | 0.97 | 5,000 | 4,864.00 | | | 4,864.00 | |
| | | | 552+500 | 552+300 | 200 | 10.00 | | 1.00 | 2,000 | 1,999.00 | | | 1,999.00 | |
| | | | 552+300 | 552+100 | 200 | 10.00 | | 0.98 | 2,000 | 1,951.00 | | | 1,951.00 | |
| | | | 552+100 | 551+600 | 500 | 10.00 | | 0.98 | 5,000 | 4,898.00 | | | 4,898.00 | |
| | | | 552+400 | | 125 | 2.20 | | 0.93 | 275 | 254.93 | | | 254.93 | |
| | | | 551+600 | 551+100 | 500 | 10.00 | | 0.98 | 5,000 | 4,900.00 | | | 4,900.00 | |
| | | | 551+100 | 550+800 | 300 | 10.00 | | 0.99 | 3,000 | 2,961.00 | | | 2,961.00 | |
| | | | 550+800 | 550+400 | 400 | 10.00 | | 0.99 | 4,000 | 3,960.00 | | | 3,960.00 | |
| | | | 550+400 | 549+900 | 500 | 10.00 | | 0.99 | 5,000 | 4,945.00 | | | 4,945.00 | |
| | | | 549+900 | 549+400 | 500 | 10.00 | | 0.98 | 5,000 | 4,900.00 | | | 4,900.00 | |
| | | | 549+400 | 549+000 | 400 | 10.00 | | 1.02 | 4,000 | 4,072.00 | | | 4,072.00 | |
| | | | 557+400 | | 125 | 2.20 | | 1.03 | 275 | 284.08 | | | 284.08 | |
| | | | 549+000 | 548+650 | 350 | 10.00 | | 0.93 | 3,500 | 3,250.00 | | | 3,250.00 | |
| | | | 562+400 | | 125 | 2.20 | | 0.92 | 275 | 253.00 | | | 253.00 | |
| | | | 562+025 | 562+500 | 475 | 10.00 | | 1.01 | 4,750 | 4,808.00 | | | 4,808.00 | |
| | | | 578+200 | 578+600 | 400 | 10.00 | | 1.01 | 4,000 | 4,041.00 | | | 4,041.00 | |
| | | | 578+600 | 578+800 | 200 | 10.00 | | 0.99 | 2,000 | 1,983.00 | | | 1,983.00 | |
| | | | 580+000 | 580+400 | 400 | 10.00 | | 1.03 | 4,000 | 4,119.00 | | | 4,119.00 | |
| | | | 580+400 | 580+800 | 400 | 10.00 | | 0.98 | 4,000 | 3,931.00 | | | 3,931.00 | |
| | | | 580+800 | 581+200 | 400 | 10.00 | | 0.97 | 4,000 | 3,862.00 | | | 3,862.00 | |
| | | | 582+000 | 582+400 | 400 | 10.00 | | 1.09 | 4,000 | 4,361.00 | | | 4,361.00 | |
| | | | 582+160 | | 125 | 2.20 | | 1.16 | 275 | 319.00 | | | 319.00 | |
| | | | 582+400 | 582+800 | 400 | 10.00 | | 1.11 | 4,000 | 4,458.00 | | | 4,458.00 | |
| | | | 581+200 | 581+600 | 400 | 10.00 | | 1.13 | 4,000 | 4,520.00 | | | 4,520.00 | |
| | | | 581+600 | 582+000 | 400 | 10.00 | | 0.99 | 4,000 | 3,944.00 | | | 3,944.00 | |
| | | | 582+800 | 583+200 | 400 | 10.00 | | 0.98 | 4,000 | 3,916.00 | | | 3,916.00 | |
| | | | 583+200 | 583+600 | 400 | 10.00 | | 1.00 | 4,000 | 4,012.00 | | | 4,012.00 | |
| | | | 583+600 | 584+100 | 500 | 10.00 | | 0.97 | 5,000 | 4,826.00 | | | 4,826.00 | |
| | | | 584+100 | 584+400 | 300 | 10.00 | | 0.98 | 3,000 | 2,952.00 | | | 2,952.00 | |
| | | | 584+400 | 584+900 | 500 | 10.00 | | 0.96 | 5,000 | 4,783.00 | | | 4,783.00 | |
| | | | 584+900 | 585+400 | 500 | 10.00 | | 0.98 | 5,000 | 4,891.00 | | | 4,891.00 | |
| | | | 585+400 | 585+900 | 500 | 10.00 | | 1.02 | 5,000 | 5,085.00 | | | 5,085.00 | |
| | | | 585+900 | 586+400 | 500 | 10.00 | | 0.94 | 5,000 | 4,692.00 | | | 4,692.00 | |
| | | | 586+400 | 586+900 | 500 | 10.00 | | 0.98 | 5,000 | 4,882.00 | | | 4,882.00 | |
| | | | 586+900 | 587+300 | 400 | 10.00 | | 1.11 | 4,000 | 4,444.00 | | | 4,444.00 | |
| | | | 587+160 | | 125 | 2.20 | | 1.16 | 275 | 320.00 | | | 320.00 | |
| | | | 587+300 | 587+800 | 500 | 10.00 | | 0.94 | 5,000 | 4,679.00 | | | 4,679.00 | |
| | | | 587+800 | 588+400 | 600 | 10.00 | | 0.99 | 6,000 | 5,939.00 | | | 5,939.00 | |
| | | | 588+400 | 588+900 | 500 | 10.00 | | 1.01 | 5,000 | 5,034.00 | | | 5,034.00 | |
| | | | 588+900 | 589+200 | 300 | 10.00 | | 0.98 | 3,000 | 2,948.00 | | | 2,948.00 | |
| | | | 589+200 | 589+500 | 300 | 10.00 | | 0.98 | 3,000 | 2,952.00 | | | 2,952.00 | |
| | | | 589+500 | 589+900 | 400 | 10.00 | | 0.94 | 4,000 | 3,748.00 | | | 3,748.00 | |
| | | | 589+900 | 590+200 | 300 | 10.00 | | 0.96 | 3,000 | 2,865.00 | | | 2,865.00 | |
| | | | 590+200 | 590+500 | 300 | 10.00 | | 1.00 | 3,000 | 3,014.00 | | | 3,014.00 | |
| | | | 590+500 | 590+800 | 300 | 10.00 | | 1.04 | 3,000 | 3,124.00 | | | 3,124.00 | |
| | | | 590+800 | 591+200 | 400 | 10.00 | | 0.86 | 4,000 | 3,427.00 | | | 3,427.00 | |
| | | | 591+200 | 591+800 | 600 | 10.00 | | 0.89 | 6,000 | 5,342.00 | | | 5,342.00 | |
| | | | 591+800 | 592+400 | 600 | 10.00 | | 0.91 | 6,000 | 5,480.00 | | | 5,480.00 | |
| | | | 592+400 | 593+000 | 600 | 10.00 | | 0.93 | 6,000 | 5,608.00 | | | 5,608.00 | |
| | | | 593+000 | 593+400 | 400 | 10.00 | | 0.97 | 4,000 | 3,874.00 | | | 3,874.00 | |
| | | | 593+100 | | 125 | 2.20 | | 1.11 | 275 | 306.00 | | | 306.00 | |
| | | | 593+400 | 593+900 | 500 | 10.00 | | 1.02 | 5,000 | 5,099.00 | | | 5,099.00 | |
| | | | 593+900 | 594+400 | 500 | 10.00 | | 0.98 | 5,000 | 4,916.00 | | | 4,916.00 | |
| | | | 561+520 | 561+830 | -310 | 10.00 | | 1.00 | -3,100 | -3,111.39 | | | -3,111.39 | |
| | | | 562+025 | 561+830 | -195 | 10.00 | | 1.16 | -1,950 | -2,258.00 | | | -2,258.00 | |
| | | | 593+900 | 594+400 | 500 | 10.00 | | 0.86 | 5,000 | 4,783.00 | | | 4,783.00 | |
| | | | 594+400 | 594+900 | 500 | 10.00 | | 0.94 | 5,000 | 4,706.00 | | | 4,706.00 | |
| | | | 594+900 | 595+500 | 600 | 10.00 | | 0.81 | 6,000 | 4,864.00 | | | 4,864.00 | |
| | | | 595+500 | 596+100 | 600 | 10.00 | | 0.84 | 6,000 | 5,025.00 | | | 5,025.00 | |
| | | | 596+100 | 596+400 | 300 | 10.00 | | 1.08 | 3,000 | 3,244.00 | | | 3,244.00 | |
| | | | 596+400 | 596+700 | 300 | 10.00 | | 0.84 | 3,000 | 2,516.00 | | | 2,516.00 | |
| | | | 596+700 | 596+900 | 200 | 10.00 | | 1.06 | 2,000 | 2,116.00 | | | 2,116.00 | |
| | | | 596+900 | 597+400 | 500 | 10.00 | | 0.96 | 5,000 | 4,816.00 | | | 4,816.00 | |
| | | | 597+400 | 597+800 | 400 | 10.00 | | 0.93 | 4,000 | 3,732.00 | | | 3,732.00 | |
| | | | 597+800 | 598+000 | 200 | 10.00 | | 1.04 | 2,000 | 2,071.00 | | | 2,071.00 | |
| | | | 598+000 | 598+200 | 200 | 10.00 | | 0.98 | 2,000 | 1,951.00 | | | 1,951.00 | |
| | | | 598+200 | 598+400 | 200 | 10.00 | | 1.04 | 2,000 | 2,077.00 | | | 2,077.00 | |
| | | | 598+400 | 598+600 | 200 | 10.00 | | 0.90 | 2,000 | 1,808.00 | | | 1,808.00 | |
| | | | 598+600 | 598+700 | 100 | 10.00 | | 0.84 | 1,000 | 844.00 | | | 844.00 | |
| | | | 598+700 | 598+800 | 100 | 10.00 | | 0.84 | 1,000 | 840.00 | | | 840.00 | |
| | | | 598+800 | 598+900 | 100 | 10.00 | | 0.98 | 1,000 | 975.00 | | | 975.00 | |
| | | | 598+900 | 599+100 | 200 | 10.00 | | 0.88 | 2,000 | 1,760.00 | | | 1,760.00 | |
| | | | 599+100 | 599+700 | 600 | 10.00 | | 1.04 | 6,000 | 6,226.00 | | | 6,226.00 | |
| | | | 599+700 | 600+100 | 400 | 10.00 | | 1.07 | 4,000 | 4,287.00 | | | 4,287.00 | |
| | | | 600+100 | 600+500 | 400 | 10.00 | | 1.02 | 4,000 | 4,098.00 | | | 4,098.00 | |
| | | | 600+500 | 600+900 | 400 | 10.00 | | 0.93 | 4,000 | 3,737.00 | | | 3,737.00 | |
| | | | 600+900 | 601+300 | 400 | 10.00 | | 1.04 | 4,000 | 4,144.00 | | | 4,144.00 | |
| | | | 601+300 | 601+700 | 400 | 10.00 | | 1.01 | 4,000 | 4,034.00 | | | 4,034.00 | |
| | | | 601+700 | 602+100 | 400 | 10.00 | | 0.98 | 4,000 | 3,901.00 | | | 3,901.00 | |
| | | | 602+100 | 602+400 | 300 | 10.00 | | 0.96 | 3,000 | 2,887.00 | | | 2,887.00 | |
| | | | 602+400 | 602+700 | 300 | 10.00 | | 0.90 | 3,000 | 2,711.00 | | | 2,711.00 | |
| | | | 602+000 | | 125 | 2.20 | | 0.85 | 275 | 235.00 | | | 235.00 | |
| | | | 602+700 | 603+100 | 400 | 10.00 | | 1.02 | 4,000 | 4,098.00 | | | 4,098.00 | |
| | | | 603+100 | 603+500 | 400 | 10.00 | | 1.12 | 4,000 | 4,467.00 | | | 4,467.00 | |
| | | | 603+500 | 603+800 | 300 | 10.00 | | 0.89 | 3,000 | 2,673.00 | | | 2,673.00 | |
| | | | 603+800 | 604+100 | 300 | 10.00 | | 1.03 | 3,000 | 3,090.00 | | | 3,090.00 | |
| | | | 604+100 | 604+600 | 500 | 10.00 | | 1.04 | 5,000 | 5,220.00 | | | 5,220.00 | |

Ing. Ezequiel Romano
Representante Legal



Folio Nº: 022 (VeintiDos)

**EJECUCION DE LAS OBRAS DE RECONSTRUCCIÓN DE LA RUTA Nº 9 EN EL TRAMO MARISCAL ESTIGARRIBIA – LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800 y 580+000 al 630+000)**
**Llamado MOPC Nº 86/2014**

## COMPUTO METRICO - ANEXO 5

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 604+600 | 605+200 | 600 | 10.00 | | 0.82 | 6,000 | 4,914.00 | | | 4,914.00 |
| | | | 605+200 | 605+700 | 500 | 10.00 | | 0.90 | 5,000 | 4,484.00 | | | 4,484.00 |
| | | | 605+700 | 606+200 | 500 | 10.00 | | 0.86 | 5,000 | 4,309.00 | | | 4,309.00 |
| | | | 606+200 | 606+800 | 600 | 10.00 | | 0.82 | 6,000 | 4,918.00 | | | 4,918.00 |
| | | | 606+400 | | 125 | 2.20 | | 0.96 | 275 | 263.00 | | | 263.00 |
| | | | 606+400 | | 13 | 7.00 | | 0.78 | 91 | 71.00 | | | 71.00 |
| | | | 606+800 | 607+400 | 600 | 10.00 | | 0.86 | 6,000 | 5,141.00 | | | 5,141.00 |
| | | | 607+400 | 607+700 | 300 | 10.00 | | 0.84 | 3,000 | 2,532.00 | | | 2,532.00 |
| | | | 607+700 | 608+300 | 600 | 10.00 | | 0.87 | 6,000 | 5,226.00 | | | 5,226.00 |
| | | | 608+300 | 608+600 | 300 | 10.00 | | 0.96 | 3,000 | 2,887.00 | | | 2,887.00 |
| | | | 608+600 | 609+200 | 600 | 10.00 | | 0.91 | 6,000 | 5,432.00 | | | 5,432.00 |
| | | | 609+200 | 609+600 | 400 | 10.00 | | 0.92 | 4,000 | 3,668.00 | | | 3,668.00 |
| | | | 609+600 | 610+000 | 400 | 10.00 | | 0.92 | 4,000 | 3,666.00 | | | 3,666.00 |
| | | | 610+000 | 610+400 | 400 | 10.00 | | 1.01 | 4,000 | 4,030.00 | | | 4,030.00 |
| | | | 610+400 | 610+700 | 300 | 10.00 | | 0.91 | 3,000 | 2,725.00 | | | 2,725.00 |
| | | | 610+700 | 610+900 | 200 | 10.00 | | 0.98 | 2,000 | 1,955.00 | | | 1,955.00 |
| | | | 610+900 | 611+400 | 500 | 10.00 | | 0.87 | 5,000 | 4,330.00 | | | 4,330.00 |
| | | | 611+700 | 612+100 | 400 | 10.00 | | 0.88 | 4,000 | 3,526.00 | | | 3,526.00 |
| | | | 612+100 | 612+500 | 400 | 10.00 | | 0.87 | 4,000 | 3,460.00 | | | 3,460.00 |
| | | | 612+500 | 612+900 | 400 | 10.00 | | 0.86 | 4,000 | 3,433.00 | | | 3,433.00 |
| | | | 612+900 | 613+200 | 300 | 10.00 | | 0.94 | 3,000 | 2,833.00 | | | 2,833.00 |
| | | | 611+400 | 611+700 | 300 | 10.00 | | 0.89 | 3,000 | 2,657.00 | | | 2,657.00 |
| | | | 611+400 | | 125 | 2.20 | | 0.89 | 275 | 244.00 | | | 244.00 |
| | | | 613+200 | 613+600 | 400 | 10.00 | | 0.98 | 4,000 | 3,900.00 | | | 3,900.00 |
| | | | 613+600 | 613+900 | 300 | 10.00 | | 0.98 | 3,000 | 2,946.00 | | | 2,946.00 |
| | | | 613+900 | 614+300 | 400 | 10.00 | | 0.92 | 4,000 | 3,692.00 | | | 3,692.00 |
| | | | 614+300 | 614+700 | 400 | 10.00 | | 1.12 | 4,000 | 4,477.00 | | | 4,477.00 |
| | | | 614+700 | 615+300 | 600 | 10.00 | | 0.93 | 6,000 | 5,607.00 | | | 5,607.00 |
| | | | 615+300 | 615+600 | 300 | 10.00 | | 0.93 | 3,000 | 2,784.00 | | | 2,784.00 |
| | | | 615+600 | 615+900 | 300 | 10.00 | | 0.84 | 3,000 | 2,508.00 | | | 2,508.00 |
| | | | 615+900 | 616+400 | 500 | 10.00 | | 0.94 | 5,000 | 4,691.00 | | | 4,691.00 |
| | | | 616+400 | 616+800 | 400 | 10.00 | | 0.90 | 4,000 | 3,601.00 | | | 3,601.00 |
| | | | 616+800 | 617+100 | 300 | 10.00 | | 1.01 | 3,000 | 3,030.00 | | | 3,030.00 |
| | | | 617+100 | | 125 | 2.20 | | 0.90 | 275 | 247.00 | | | 247.00 |
| | | | 617+100 | | 13 | 7.00 | | 0.96 | 91 | 87.00 | | | 87.00 |
| | | | 617+100 | 617+300 | 200 | 10.00 | | 1.02 | 2,000 | 2,039.00 | | | 2,039.00 |
| | | | 617+300 | 617+600 | 300 | 10.00 | | 1.00 | 3,000 | 3,009.00 | | | 3,009.00 |
| | | | 617+600 | 617+800 | 200 | 10.00 | | 0.92 | 2,000 | 1,845.00 | | | 1,845.00 |
| | | | 617+800 | 618+000 | 200 | 10.00 | | 1.03 | 2,000 | 2,055.00 | | | 2,055.00 |
| | | | 618+000 | 618+300 | 300 | 10.00 | | 0.93 | 3,000 | 2,801.00 | | | 2,801.00 |
| | | | 618+300 | 618+500 | 200 | 10.00 | | 0.99 | 2,000 | 1,984.00 | | | 1,984.00 |
| | | | 618+500 | 619+000 | 500 | 10.00 | | 0.91 | 5,000 | 4,545.00 | | | 4,545.00 |
| | | | 619+000 | 619+400 | 400 | 10.00 | | 1.04 | 4,000 | 4,141.00 | | | 4,141.00 |
| | | | 619+400 | 619+700 | 300 | 10.00 | | 0.91 | 3,000 | 2,728.00 | | | 2,728.00 |
| | | | 619+700 | 620+100 | 400 | 10.00 | | 0.93 | 4,000 | 3,726.00 | | | 3,726.00 |
| | | | 620+100 | 620+400 | 300 | 10.00 | | 1.06 | 3,000 | 3,171.00 | | | 3,171.00 |
| | | | 620+400 | 620+800 | 400 | 10.00 | | 0.89 | 4,000 | 3,548.00 | | | 3,548.00 |
| | | | 620+800 | 621+000 | 200 | 10.00 | | 0.92 | 2,000 | 1,849.00 | | | 1,849.00 |
| | | | 621+000 | 621+200 | 200 | 10.00 | | 0.99 | 2,000 | 1,974.00 | | | 1,974.00 |
| | | | 621+200 | 621+700 | 500 | 10.00 | | 0.93 | 5,000 | 4,659.00 | | | 4,659.00 |
| | | | 621+700 | 622+000 | 300 | 10.00 | | 1.00 | 3,000 | 3,000.00 | | | 3,000.00 |
| | | | 622+000 | 622+300 | 300 | 10.00 | | 0.97 | 3,000 | 2,912.00 | | | 2,912.00 |
| | | | 622+300 | 622+800 | 500 | 10.00 | | 0.91 | 5,000 | 4,533.00 | | | 4,533.00 |
| | | | 622+800 | 623+100 | 300 | 10.00 | | 0.97 | 3,000 | 2,918.00 | | | 2,918.00 |
| | | | 623+100 | 623+200 | 100 | 10.00 | | 1.08 | 1,000 | 1,078.00 | | | 1,078.00 |
| | | | 623+200 | 623+500 | 300 | 10.00 | | 1.01 | 3,000 | 3,040.00 | | | 3,040.00 |
| | | | 623+500 | 623+800 | 300 | 10.00 | | 0.97 | 3,000 | 2,907.00 | | | 2,907.00 |
| | | | 623+460 | | 125 | 2.20 | | 0.93 | 275 | 256.00 | | | 256.00 |
| | | | 623+460 | | 13 | 7.00 | | 0.98 | 91 | 89.00 | | | 89.00 |
| | | | 623+800 | 624+300 | 500 | 10.00 | | 1.00 | 5,000 | 5,012.00 | | | 5,012.00 |
| | | | 624+300 | 624+800 | 500 | 10.00 | | 0.97 | 5,000 | 4,841.00 | | | 4,841.00 |
| | | | 624+800 | 625+300 | 500 | 10.00 | | 0.96 | 5,000 | 4,788.00 | | | 4,788.00 |
| | | | 625+300 | 625+800 | 500 | 10.00 | | 0.96 | 5,000 | 4,821.00 | | | 4,821.00 |
| | | | 625+800 | 626+300 | 500 | 10.00 | | 0.96 | 5,000 | 4,784.00 | | | 4,784.00 |
| | | | 626+300 | 626+700 | 400 | 10.00 | | 1.05 | 4,000 | 4,214.00 | | | 4,214.00 |
| | | | 626+700 | 627+100 | 400 | 10.00 | | 1.03 | 4,000 | 4,131.00 | | | 4,131.00 |
| | | | 627+100 | 627+700 | 600 | 10.00 | | 0.97 | 6,000 | 5,816.00 | | | 5,816.00 |
| | | | 627+700 | 628+200 | 500 | 10.00 | | 0.92 | 5,000 | 4,586.00 | | | 4,586.00 |
| | | | 628+200 | 628+600 | 400 | 10.00 | | 1.03 | 4,000 | 4,113.00 | | | 4,113.00 |
| | | | 628+600 | 629+000 | 400 | 10.00 | | 0.99 | 4,000 | 3,968.00 | | | 3,968.00 |
| | | | 629+000 | 629+400 | 400 | 10.00 | | 0.98 | 4,000 | 3,902.00 | | | 3,902.00 |
| | | | 629+400 | 629+800 | 400 | 10.00 | | 0.97 | 4,000 | 3,870.00 | | | 3,870.00 |
| | | | 629+800 | 630+000 | 200 | 10.00 | | 0.98 | 2,000 | 1,965.00 | | | 1,965.00 |
| | | | 548+650 | 549+000 | -350 | 10.00 | | 0.93 | -3,500 | -3,250.00 | | | -3,250.00 |
| | | | 597+100 | | 125 | 2.20 | | 0.93 | 275 | 256.00 | | | 256.00 |
| | | | 623+380 | | 125 | 2.20 | | 0.99 | 275 | 272.80 | | | 272.80 |
| | | | 628+680 | | 125 | 2.20 | | 0.97 | 275 | 266.57 | | | 266.57 |
| | | | 561+520 | 561+830 | 310 | 10.00 | | 1.00 | 3,100 | 3,111.39 | | | 3,111.39 |
| | | | 561+830 | 562+025 | 195 | 10.00 | | 1.16 | 1,950 | 2,258.00 | | | 2,258.00 |
| | | | 548+650 | 549+000 | 350 | 10.00 | | 0.93 | 3,500 | 3,250.00 | | | 3,250.00 |
| | | | | | | | | | | | | | **630,496.87** |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS | | Longitud | Ancho | Lado | TASA | SUP. | VOL. | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | INI. | FIN | m | a | | | m2 | lts | | | | |
| 2.11.2 | **Riego de Liga** | lts | | | | | | | | | | | | **188,886.95** |
| | En calzada y banquina - Base Sup. De Concr. Asfaltico | | 548+650 | 562+500 | 13,850 | 9.60 | A.L. | 0.40 | 132,960 | 53,184.00 | | 0.00 | - | |
| | | | 578+200 | 578+800 | 600 | 9.60 | A.L. | 0.40 | 5,760 | 2,304.00 | | 0.00 | - | |
| | | | 580+000 | 630+000 | 50,000 | 9.60 | A.L. | 0.40 | 480,000 | 192,000.00 | | 0.00 | - | |
| | En calzada - Carpeta de Concr. Asfaltico | | 562+500 | 561+958 | 542 | 3.71 | LD | 0.39 | 2,011 | 793.94 | | 1.00 | 793.94 | |
| | | | 562+500 | 561+284 | 1,216 | 3.71 | LI | 0.38 | 4,511 | 1,735.22 | | 1.00 | 1,735.22 | |
| | | | 561+284 | 560+425 | 859 | 3.71 | LI | 0.38 | 3,187 | 1,222.18 | | 1.00 | 1,222.18 | |
| | | | 561+958 | 561+629 | 329 | 3.71 | LD | 0.39 | 1,221 | 475.94 | | 1.00 | 475.94 | |
| | | | 561+629 | 560+435 | 1,194 | 3.71 | LD | 0.37 | 4,430 | 1,650.42 | | 1.00 | 1,650.42 | |
| | | | 560+435 | 559+328 | 1,107 | 3.71 | LD | 0.38 | 4,107 | 1,579.40 | | 1.00 | 1,579.40 | |
| | | | 560+425 | 559+280 | 1,145 | 3.71 | LI | 0.38 | 4,248 | 1,593.18 | | 1.00 | 1,593.18 | |
| | | | 559+328 | 558+165 | 1,163 | 3.71 | LD | 0.39 | 4,315 | 1,663.14 | | 1.00 | 1,663.14 | |
| | | | 558+165 | 557+290 | 875 | 3.71 | LD | 0.40 | 3,246 | 1,296.38 | | 1.00 | 1,296.38 | |
| | | | 559+280 | 558+387 | 893 | 3.71 | LI | 0.37 | 3,313 | 1,237.02 | | 1.00 | 1,237.02 | |
| | | | 558+387 | 557+236 | 1,151 | 3.71 | LI | 0.39 | 4,270 | 1,654.66 | | 1.00 | 1,654.66 | |
| | | | 557+236 | 556+205 | 1,031 | 3.71 | LI | 0.40 | 3,825 | 1,521.10 | | 1.00 | 1,521.10 | |
| | | | 557+290 | 556+285 | 1,005 | 3.71 | LD | 0.39 | 3,729 | 1,465.98 | | 1.00 | 1,465.98 | |
| | | | 556+285 | 555+945 | 340 | 3.71 | LD | 0.41 | 1,261 | 520.04 | | 1.00 | 520.04 | |
| | | | 556+205 | 555+665 | 550 | 3.71 | LI | 0.38 | 2,041 | 765.32 | | 1.00 | 765.32 | |
| | | | 555+945 | 555+665 | 280 | 3.71 | LD | 0.39 | 1,039 | 400.68 | | 1.00 | 400.68 | |
| | | | 555+665 | 555+175 | 490 | 3.71 | LD | 0.40 | 1,818 | 726.38 | | 1.00 | 726.38 | |
| | | | 555+655 | 555+148 | 507 | 3.71 | LI | 0.38 | 1,881 | 710.94 | | 1.00 | 710.94 | |
| | | | 555+148 | 554+775 | 373 | 3.71 | LI | 0.39 | 1,384 | 536.49 | | 1.00 | 536.49 | |
| | | | 554+775 | 554+037 | 738 | 3.71 | LI | 0.38 | 2,738 | 1,051.35 | | 1.00 | 1,051.35 | |
| | | | 555+175 | 554+025 | 1,150 | 3.71 | LD | 0.39 | 4,267 | 1,675.86 | | 1.00 | 1,675.86 | |
| | | | 554+037 | 552+967 | 1,070 | 3.71 | LI | 0.39 | 3,970 | 1,528.52 | | 1.00 | 1,528.52 | |
| | | | 552+967 | 552+410 | 557 | 3.71 | LI | 0.40 | 2,066 | 825.23 | | 1.00 | 825.23 | |
| | | | 552+410 | 551+707 | 703 | 3.71 | I | 0.40 | 2,608 | 1,043.25 | | 1.00 | 1,043.25 | |

Ing. Ezequiel Romano
Representante Legal



Folio Nº: 023 (VeintiTres)

**EJECUCION DE LAS OBRAS DE RECONSTRUCCIÓN DE LA RUTA Nº 9 EN EL TRAMO MARISCAL ESTIGARRIBIA – LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800 y 580+000 al 630+000)**
**Llamado MOPC Nº 86/2014**

## COMPUTO METRICO - ANEXO 5

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 554+025 | 553+565 | 460 | 3.71 | D | 0.40 | 1,707 | 682.64 | 1.00 | 682.64 | |
| | | | 553+565 | 552+990 | 575 | 3.71 | D | 0.40 | 2,133 | 853.30 | 1.00 | 853.30 | |
| | | | 552+990 | 551+960 | 1,030 | 3.71 | D | 0.41 | 3,821 | 1,583.64 | 1.00 | 1,583.64 | |
| | | | 551+960 | 551+270 | 690 | 3.71 | D | 0.41 | 2,560 | 1,037.74 | 1.00 | 1,037.74 | |
| | | | 551+707 | 551+305 | 402 | 3.71 | I | 0.41 | 1,491 | 616.92 | 1.00 | 616.92 | |
| | | | 551+305 | 550+515 | 790 | 3.71 | I | 0.40 | 2,931 | 1,181.90 | 1.00 | 1,181.90 | |
| | | | 550+515 | 549+365 | 1,150 | 3.71 | I | 0.41 | 4,267 | 1,763.84 | 1.00 | 1,763.84 | |
| | | | 551+270 | 550+790 | 480 | 3.71 | D | 0.41 | 1,781 | 723.98 | 1.00 | 723.98 | |
| | | | 550+790 | 549+830 | 960 | 3.71 | D | 0.41 | 3,562 | 1,461.74 | 1.00 | 1,461.74 | |
| | | | 549+265 | 548+650 | 615 | 3.71 | I | 0.41 | 2,282 | 937.04 | 1.00 | 937.04 | |
| | | | 549+730 | 549+126 | 604 | 3.71 | D | 0.41 | 2,241 | 908.42 | 1.00 | 908.42 | |
| | | | 549+126 | 548+650 | 476 | 3.71 | D | 0.41 | 1,766 | 717.62 | 1.00 | 717.62 | |
| | | | 578+200 | 578+800 | 600 | 3.71 | I | 0.40 | 2,226 | 886.16 | 1.00 | 886.16 | |
| | | | 578+200 | 578+800 | 600 | 3.71 | D | 0.40 | 2,226 | 881.92 | 1.00 | 881.92 | |
| | | | 580+195 | 580+745 | 550 | 3.71 | D | 0.41 | 2,041 | 832.10 | 1.00 | 832.10 | |
| | | | 580+745 | 581+465 | 720 | 3.71 | D | 0.39 | 2,671 | 1,030.32 | 1.00 | 1,030.32 | |
| | | | 579+980 | 581+020 | 1,040 | 3.71 | I | 0.40 | 3,858 | 1,543.36 | 1.00 | 1,543.36 | |
| | | | 581+020 | 581+797 | 777 | 3.71 | I | 0.39 | 2,883 | 1,128.90 | 1.00 | 1,128.90 | |
| | | | 581+797 | 582+320 | 523 | 3.71 | I | 0.40 | 1,940 | 779.10 | 1.00 | 779.10 | |
| | | | 581+465 | 581+635 | 170 | 3.71 | D | 0.41 | 631 | 258.64 | 1.00 | 258.64 | |
| | | | 581+635 | 582+295 | 660 | 3.71 | D | 0.39 | 2,449 | 960.36 | 1.00 | 960.36 | |
| | | | 582+320 | 582+900 | 580 | 3.71 | I | 0.39 | 2,152 | 839.20 | 1.00 | 839.20 | |
| | | | 582+900 | 583+900 | 1,000 | 3.71 | I | 0.41 | 3,710 | 1,521.10 | 1.00 | 1,521.10 | |
| | | | 582+295 | 582+700 | 405 | 3.71 | D | 0.38 | 1,503 | 570.97 | 1.00 | 570.97 | |
| | | | 582+700 | 583+400 | 700 | 3.71 | D | 0.38 | 2,597 | 986.86 | 1.00 | 986.86 | |
| | | | 583+900 | 584+700 | 800 | 3.71 | I | 0.39 | 2,968 | 1,157.52 | 1.00 | 1,157.52 | |
| | | | 583+400 | 583+600 | 200 | 3.71 | D | 0.37 | 742 | 274.54 | 1.00 | 274.54 | |
| | | | 583+600 | 584+340 | 740 | 3.71 | D | 0.40 | 2,745 | 1,098.16 | 1.00 | 1,098.16 | |
| | | | 584+340 | 585+300 | 960 | 3.71 | D | 0.41 | 3,562 | 1,460.26 | 1.00 | 1,460.26 | |
| | | | 585+300 | 585+800 | 500 | 3.71 | D | 0.36 | 1,855 | 667.80 | 1.00 | 667.80 | |
| | | | 584+700 | 585+000 | 300 | 3.71 | I | 0.37 | 1,113 | 411.81 | 1.00 | 411.81 | |
| | | | 585+000 | 586+200 | 1,200 | 3.71 | I | 0.37 | 4,452 | 1,647.24 | 1.00 | 1,647.24 | |
| | | | 586+200 | 586+900 | 700 | 3.71 | I | 0.40 | 2,597 | 1,038.80 | 1.00 | 1,038.80 | |
| | | | 585+800 | 586+200 | 400 | 3.71 | D | 0.39 | 1,484 | 578.76 | 1.00 | 578.76 | |
| | | | 586+200 | 586+700 | 500 | 3.71 | D | 0.37 | 1,855 | 686.35 | 1.00 | 686.35 | |
| | | | 586+700 | 587+600 | 900 | 3.71 | D | 0.39 | 3,339 | 1,302.21 | 1.00 | 1,302.21 | |
| | | | 587+600 | 588+400 | 800 | 3.71 | D | 0.38 | 2,968 | 1,127.84 | 1.00 | 1,127.84 | |
| | | | 586+900 | 588+300 | 1,400 | 3.71 | I | 0.41 | 5,194 | 2,129.54 | 1.00 | 2,129.54 | |
| | | | 588+300 | 589+100 | 800 | 3.71 | I | 0.40 | 2,968 | 1,187.20 | 1.00 | 1,187.20 | |
| | | | 589+100 | 590+100 | 1,000 | 3.71 | I | 0.38 | 3,710 | 1,409.80 | 1.00 | 1,409.80 | |
| | | | 588+400 | 589+000 | 600 | 3.71 | D | 0.36 | 2,226 | 801.36 | 1.00 | 801.36 | |
| | | | 589+000 | 590+100 | 1,100 | 3.71 | D | 0.40 | 4,081 | 1,632.40 | 1.00 | 1,632.40 | |
| | | | 590+100 | 590+300 | 200 | 3.71 | I | 0.41 | 742 | 304.22 | 1.00 | 304.22 | |
| | | | 590+100 | 590+700 | 600 | 3.71 | D | 0.39 | 2,226 | 868.14 | 1.00 | 868.14 | |
| | | | 590+300 | 591+300 | 1,000 | 3.71 | I | 0.37 | 3,710 | 1,372.70 | 1.00 | 1,372.70 | |
| | | | 590+700 | 591+900 | 1,200 | 3.71 | D | 0.38 | 4,452 | 1,691.76 | 1.00 | 1,691.76 | |
| | | | 591+300 | 592+400 | 1,100 | 3.71 | I | 0.40 | 4,081 | 1,632.40 | 1.00 | 1,632.40 | |
| | | | 592+400 | 593+300 | 900 | 3.71 | I | 0.37 | 3,339 | 1,235.43 | 1.00 | 1,235.43 | |
| | | | 591+900 | 592+400 | 500 | 3.71 | D | 0.40 | 1,855 | 742.00 | 1.00 | 742.00 | |
| | | | 591+400 | 591+800 | 400 | 3.71 | D | 0.39 | 1,484 | 578.76 | 1.00 | 578.76 | |
| | | | 591+800 | 593+680 | 1,880 | 3.71 | D | 0.38 | 6,975 | 2,650.42 | 1.00 | 2,650.42 | |
| | | | 593+600 | 594+000 | 400 | 3.71 | D | 0.41 | 1,484 | 608.44 | 1.00 | 608.44 | |
| | | | 594+000 | 594+800 | 800 | 3.71 | D | 0.40 | 2,968 | 1,187.20 | 1.00 | 1,187.20 | |
| | | | 593+250 | 594+300 | 1,050 | 3.71 | I | 0.38 | 3,896 | 1,480.29 | 1.00 | 1,480.29 | |
| | | | 594+300 | 595+200 | 900 | 3.71 | I | 0.37 | 3,339 | 1,235.43 | 1.00 | 1,235.43 | |
| | | | 594+800 | 595+500 | 700 | 3.71 | D | 0.39 | 2,597 | 1,012.83 | 1.00 | 1,012.83 | |
| | | | 595+500 | 596+400 | 900 | 3.71 | D | 0.38 | 3,339 | 1,268.82 | 1.00 | 1,268.82 | |
| | | | 595+200 | 595+740 | 540 | 3.71 | I | 0.41 | 2,003 | 821.39 | 1.00 | 821.39 | |
| | | | 595+740 | 596+900 | 1,160 | 3.71 | I | 0.40 | 4,304 | 1,721.44 | 1.00 | 1,721.44 | |
| | | | 596+900 | 598+000 | 1,100 | 3.71 | I | 0.38 | 4,081 | 1,550.78 | 1.00 | 1,550.78 | |
| | | | 596+400 | 597+500 | 1,100 | 3.71 | D | 0.36 | 4,081 | 1,469.16 | 1.00 | 1,469.16 | |
| | | | 597+500 | 597+800 | 300 | 3.71 | D | 0.39 | 1,113 | 434.07 | 1.00 | 434.07 | |
| | | | 597+800 | 598+700 | 900 | 3.71 | D | 0.38 | 3,339 | 1,268.82 | 1.00 | 1,268.82 | |
| | | | 598+700 | 599+400 | 700 | 3.71 | D | 0.41 | 2,597 | 1,064.77 | 1.00 | 1,064.77 | |
| | | | 598+000 | 599+000 | 1,000 | 3.71 | I | 0.40 | 3,710 | 1,484.00 | 1.00 | 1,484.00 | |
| | | | 599+400 | 599+700 | 300 | 3.71 | D | 0.41 | 1,113 | 456.33 | 1.00 | 456.33 | |
| | | | 599+700 | 600+900 | 1,200 | 3.71 | D | 0.40 | 4,452 | 1,780.80 | 1.00 | 1,780.80 | |
| | | | 599+000 | 600+000 | 1,000 | 3.71 | I | 0.39 | 3,710 | 1,446.90 | 1.00 | 1,446.90 | |
| | | | 600+000 | 601+100 | 1,100 | 3.71 | I | 0.38 | 4,081 | 1,550.78 | 1.00 | 1,550.78 | |
| | | | 601+100 | 602+200 | 1,100 | 3.71 | I | 0.41 | 4,081 | 1,673.21 | 1.00 | 1,673.21 | |
| | | | 600+850 | 601+880 | 1,030 | 3.71 | D | 0.40 | 3,821 | 1,528.52 | 1.00 | 1,528.52 | |
| | | | 601+880 | 602+200 | 320 | 3.71 | D | 0.39 | 1,187 | 463.01 | 1.00 | 463.01 | |
| | | | 602+200 | 603+300 | 1,100 | 3.71 | I | 0.40 | 4,081 | 1,632.40 | 1.00 | 1,632.40 | |
| | | | 602+200 | 602+500 | 300 | 3.71 | D | 0.38 | 1,113 | 422.94 | 1.00 | 422.94 | |
| | | | 602+500 | 603+800 | 1,300 | 3.71 | D | 0.40 | 4,823 | 1,929.20 | 1.00 | 1,929.20 | |
| | | | 603+800 | 604+800 | 1,000 | 3.71 | D | 0.39 | 3,710 | 1,446.90 | 1.00 | 1,446.90 | |
| | | | 603+300 | 604+800 | 1,500 | 3.71 | I | 0.38 | 5,565 | 2,114.70 | 1.00 | 2,114.70 | |
| | | | 604+800 | 605+500 | 700 | 3.71 | I | 0.37 | 2,597 | 963.54 | 1.00 | 963.54 | |
| | | | 604+800 | 606+080 | 1,280 | 3.71 | D | 0.35 | 4,749 | 1,669.50 | 1.00 | 1,669.50 | |
| | | | 606+080 | 606+300 | 220 | 3.71 | D | 0.38 | 816 | 309.52 | 1.00 | 309.52 | |
| | | | 605+500 | 605+800 | 300 | 3.71 | I | 0.36 | 1,113 | 397.50 | 1.00 | 397.50 | |
| | | | 605+800 | 606+200 | 400 | 3.71 | I | 0.34 | 1,484 | 508.80 | 1.00 | 508.80 | |
| | | | 606+200 | 607+100 | 900 | 3.71 | I | 0.34 | 3,339 | 1,135.26 | 1.00 | 1,135.26 | |
| | | | 606+300 | 606+400 | 100 | 3.71 | D | 0.38 | 371 | 140.98 | 1.00 | 140.98 | |
| | | | 606+400 | 607+300 | 900 | 3.71 | D | 0.34 | 3,339 | 1,135.26 | 1.00 | 1,135.26 | |
| | | | 607+300 | 608+100 | 800 | 3.71 | D | 0.38 | 2,968 | 1,127.84 | 1.00 | 1,127.84 | |
| | | | 607+100 | 607+300 | 200 | 3.71 | I | 0.38 | 742 | 281.96 | 1.00 | 281.96 | |
| | | | 607+300 | 608+350 | 1,050 | 3.71 | I | 0.35 | 3,896 | 1,363.43 | 1.00 | 1,363.43 | |
| | | | 608+350 | 608+600 | 250 | 3.71 | I | 0.38 | 928 | 352.45 | 1.00 | 352.45 | |
| | | | 608+100 | 609+400 | 1,300 | 3.71 | D | 0.38 | 4,823 | 1,832.74 | 1.00 | 1,832.74 | |
| | | | 608+600 | 609+800 | 1,200 | 3.71 | I | 0.37 | 4,452 | 1,647.24 | 1.00 | 1,647.24 | |
| | | | 609+800 | 610+700 | 900 | 3.71 | I | 0.37 | 3,339 | 1,235.43 | 1.00 | 1,235.43 | |
| | | | 609+400 | 609+700 | 300 | 3.71 | D | 0.37 | 1,113 | 411.81 | 1.00 | 411.81 | |
| | | | 609+700 | 610+920 | 1,220 | 3.71 | D | 0.35 | 4,526 | 1,605.90 | 1.00 | 1,605.90 | |
| | | | 610+920 | 611+900 | 980 | 3.71 | D | 0.38 | 3,636 | 1,381.60 | 1.00 | 1,381.60 | |
| | | | 610+700 | 611+000 | 300 | 3.71 | I | 0.36 | 1,113 | 400.68 | 1.00 | 400.68 | |
| | | | 611+000 | 611+800 | 800 | 3.71 | I | 0.39 | 2,968 | 1,157.52 | 1.00 | 1,157.52 | |
| | | | 611+900 | 612+100 | 200 | 3.71 | D | 0.37 | 742 | 274.54 | 1.00 | 274.54 | |
| | | | 612+100 | 613+000 | 900 | 3.71 | D | 0.37 | 3,339 | 1,235.43 | 1.00 | 1,235.43 | |
| | | | 611+800 | 612+100 | 300 | 3.71 | I | 0.38 | 1,113 | 422.94 | 1.00 | 422.94 | |
| | | | 612+100 | 612+900 | 800 | 3.71 | I | 0.39 | 2,968 | 1,157.52 | 1.00 | 1,157.52 | |
| | | | 612+900 | 613+500 | 600 | 3.71 | I | 0.40 | 2,226 | 890.40 | 1.00 | 890.40 | |
| | | | 613+000 | 613+200 | 200 | 3.71 | D | 0.39 | 742 | 289.38 | 1.00 | 289.38 | |
| | | | 613+200 | 614+300 | 1,100 | 3.71 | D | 0.40 | 4,081 | 1,632.40 | 1.00 | 1,632.40 | |
| | | | 614+300 | 615+300 | 1,000 | 3.71 | D | 0.38 | 3,710 | 1,409.80 | 1.00 | 1,409.80 | |
| | | | 613+500 | 613+800 | 300 | 3.71 | I | 0.37 | 1,113 | 411.81 | 1.00 | 411.81 | |
| | | | 613+800 | 615+100 | 1,300 | 3.71 | I | 0.38 | 4,823 | 1,832.74 | 1.00 | 1,832.74 | |
| | | | 615+100 | 616+200 | 1,100 | 3.71 | I | 0.39 | 4,081 | 1,591.59 | 1.00 | 1,591.59 | |
| | | | 615+300 | 616+200 | 900 | 3.71 | D | 0.39 | 3,339 | 1,302.21 | 1.00 | 1,302.21 | |
| | | | 616+200 | 616+500 | 300 | 3.71 | D | 0.40 | 1,113 | 445.20 | 1.00 | 445.20 | |
| | | | 616+500 | 617+600 | 1,100 | 3.71 | D | 0.38 | 4,081 | 1,550.78 | 1.00 | 1,550.78 | |
| | | | 616+200 | 616+600 | 400 | 3.71 | I | 0.36 | 1,484 | 534.24 | 1.00 | 534.24 | |
| | | | 616+600 | 617+500 | 900 | 3.71 | I | 0.39 | 3,339 | 1,302.21 | 1.00 | 1,302.21 | |
| | | | 617+600 | 618+800 | 1,200 | 3.71 | D | 0.38 | 4,452 | 1,691.76 | 1.00 | 1,691.76 | |

Ing. Ezequiel Romano
Representante Legal



Folio Nº 024 (Veinticuatro)

**EJECUCION DE LAS OBRAS DE RECONSTRUCCIÓN DE LA RUTA Nº 9 EN EL TRAMO MARISCAL ESTIGARRIBIA – LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800 y 580+000 al 630+000)**
**Llamado MOPC Nº 86/2014**

## COMPUTO METRICO - ANEXO 5

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 617+500 | 617+800 | 300 | 3.71 | I | 0.41 | 1,113 | 456.33 | | 1.00 | 456.33 | |
| | | | 617+800 | 618+700 | 900 | 3.71 | I | 0.40 | 3,339 | 1,335.60 | | 1.00 | 1,335.60 | |
| | | | 618+700 | 619+400 | 700 | 3.71 | I | 0.41 | 2,597 | 1,064.77 | | 1.00 | 1,064.77 | |
| | | | 619+400 | 620+600 | 1,200 | 3.71 | I | 0.41 | 4,452 | 1,825.32 | | 1.00 | 1,825.32 | |
| | | | 618+800 | 619+100 | 300 | 3.71 | D | 0.39 | 1,113 | 434.07 | | 1.00 | 434.07 | |
| | | | 619+100 | 620+500 | 1,400 | 3.71 | D | 0.37 | 5,194 | 1,921.78 | | 1.00 | 1,921.78 | |
| | | | 620+500 | 621+400 | 900 | 3.71 | D | 0.38 | 3,339 | 1,268.82 | | 1.00 | 1,268.82 | |
| | | | 621+400 | 622+400 | 1,000 | 3.71 | D | 0.40 | 3,710 | 1,484.00 | | 1.00 | 1,484.00 | |
| | | | 622+400 | 623+200 | 800 | 3.71 | D | 0.37 | 2,968 | 1,098.16 | | 1.00 | 1,098.16 | |
| | | | 620+500 | 621+000 | 500 | 3.71 | I | 0.40 | 1,855 | 742.00 | | 1.00 | 742.00 | |
| | | | 621+000 | 621+900 | 900 | 3.71 | I | 0.39 | 3,339 | 1,302.21 | | 1.00 | 1,302.21 | |
| | | | 621+900 | 622+600 | 700 | 3.71 | I | 0.38 | 2,597 | 986.86 | | 1.00 | 986.86 | |
| | | | 622+600 | 623+400 | 800 | 3.71 | I | 0.41 | 2,968 | 1,216.88 | | 1.00 | 1,216.88 | |
| | | | 623+200 | 623+900 | 700 | 3.71 | D | 0.40 | 2,597 | 1,038.80 | | 1.00 | 1,038.80 | |
| | | | 623+400 | 624+300 | 900 | 3.71 | I | 0.38 | 3,339 | 1,268.82 | | 1.00 | 1,268.82 | |
| | | | 623+900 | 624+800 | 900 | 3.71 | D | 0.37 | 3,339 | 1,235.43 | | 1.00 | 1,235.43 | |
| | | | 624+800 | 625+200 | 400 | 3.71 | D | 0.39 | 1,484 | 578.76 | | 1.00 | 578.76 | |
| | | | 624+300 | 625+000 | 700 | 3.71 | I | 0.38 | 2,597 | 986.86 | | 1.00 | 986.86 | |
| | | | 625+200 | 626+200 | 1,000 | 3.71 | D | 0.41 | 3,710 | 1,521.10 | | 1.00 | 1,521.10 | |
| | | | 625+000 | 625+500 | 500 | 3.71 | I | 0.39 | 1,855 | 723.45 | | 1.00 | 723.45 | |
| | | | 625+500 | 626+300 | 800 | 3.71 | I | 0.37 | 2,968 | 1,098.16 | | 1.00 | 1,098.16 | |
| | | | 626+300 | 627+200 | 900 | 3.71 | I | 0.38 | 3,339 | 1,268.82 | | 1.00 | 1,268.82 | |
| | | | 626+200 | 627+200 | 1,000 | 3.71 | D | 0.40 | 3,710 | 1,484.00 | | 1.00 | 1,484.00 | |
| | | | 627+200 | 628+200 | 1,000 | 3.71 | D | 0.39 | 3,710 | 1,446.90 | | 1.00 | 1,446.90 | |
| | | | 627+200 | 627+800 | 600 | 3.71 | I | 0.39 | 2,226 | 868.14 | | 1.00 | 868.14 | |
| | | | 627+800 | 629+000 | 1,200 | 3.71 | I | 0.40 | 4,452 | 1,780.80 | | 1.00 | 1,780.80 | |
| | | | 629+000 | 630+000 | 1,000 | 3.71 | I | 0.38 | 3,710 | 1,409.80 | | 1.00 | 1,409.80 | |
| | | | 628+200 | 629+500 | 1,300 | 3.71 | D | 0.37 | 4,823 | 1,784.51 | | 1.00 | 1,784.51 | |
| | | | 629+500 | 630+000 | 500 | 3.71 | D | 0.39 | 1,855 | 723.45 | | 1.00 | 723.45 | |
| | | | | | | | | | | | | | | |
| | En Darsena | | | | | | | | | | | | | |
| | | | 552+400 | | 125 | 3.50 | I | 0.38 | 438 | 166.25 | | 1.00 | 166.25 | |
| | | | 557+400 | | 125 | 3.50 | D | 0.39 | 438 | 170.63 | | 1.00 | 170.63 | |
| | | | 562+400 | | 125 | 3.50 | I | 0.41 | 438 | 179.38 | | 1.00 | 179.38 | |
| | | | 582+160 | | 125 | 3.50 | D | 0.41 | 438 | 179.38 | | 1.00 | 179.38 | |
| | | | 587+160 | | 125 | 3.50 | I | 0.37 | 438 | 161.88 | | 1.00 | 161.88 | |
| | | | 593+100 | | 125 | 3.50 | D | 0.40 | 438 | 175.00 | | 1.00 | 175.00 | |
| | | | 597+100 | | 125 | 3.50 | I | 0.39 | 438 | 170.63 | | 1.00 | 170.63 | |
| | | | 602+000 | | 125 | 3.50 | D | 0.39 | 438 | 170.63 | | 1.00 | 170.63 | |
| | | | 606+400 | | 125 | 3.50 | I | 0.40 | 438 | 175.00 | | 1.00 | 175.00 | |
| | | | 611+400 | | 125 | 3.50 | D | 0.39 | 438 | 170.63 | | 1.00 | 170.63 | |
| | | | 617+100 | | 125 | 3.50 | I | 0.40 | 438 | 175.00 | | 1.00 | 175.00 | |
| | | | 623+380 | | 125 | 3.50 | D | 0.38 | 438 | 166.25 | | 1.00 | 166.25 | |
| | | | 623+460 | | 125 | 3.50 | I | 0.39 | 438 | 170.63 | | 1.00 | 170.63 | |
| | | | 628+680 | | 125 | 3.50 | D | 0.38 | 438 | 166.25 | | 1.00 | 166.25 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 188,886.95 | |

**3.0 OBRAS COMPLEMENTARIAS**

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS | | Longitud | Ancho | Esp. | Lado | SUP. | SUP. ACUM. | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | INI. | FIN | km | a | e | | m2 | m2 | | | | |
| 3.1 | **Protección Vegetal de Taludes** | m2 | | | | | | | | | | | | **863,125.00** |
| | Según Planilla de Computo | | 549+000 | 562+500 | 13.50 | var. | | 2 | 192,925 | 192,924.50 | | | 192,924.50 | |
| | | | 578+200 | 578+800 | 0.60 | var. | | 2 | 7,342 | 200,266.00 | | | 7,341.50 | |
| | | | 580+000 | 630+000 | 50.00 | var. | | 2 | 662,859 | 863,125.00 | | | 662,859.00 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 863,125.00 | |

Ing. Ezequiel Romano
Representante Legal



Folio Nº: 025 (VeintiCinco)

(VEINTICINCO DIECISEIS)

**EJECUCION DE LAS OBRAS DE RECONSTRUCCIÓN DE LA RUTA Nº 9 EN EL TRAMO MARISCAL ESTIGARRIBIA – LA PATRIA (sectores comprendidos entre las progresivas 548+650 al 562+500, 578+200 al 578+800 y 580+000 al 630+000)**
**Llamado MOPC Nº 86/2014**

## COMPUTO METRICO - ANEXO 5

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.2 | **Señalizacion Vertical** | m2 | | | | | | | | | | | | 182.98 |
| | según Planilla Computo | | | | | | | | | | | | 182.98 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 182.98 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.3 | **Señalizacion Horizontal** | m2 | | | | | | | | | | | | 16,641.24 |
| | según Planilla Computo | | | | | | | | | | | | 16,641.24 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 16,641.24 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.5 | **Reposición de Mojones de Kilometraje** | Un. | | | | | | | | | | | | 65.00 |
| | | | 549+000 | 562+500 | 13.50 | | | | | | | | 14.00 | |
| | | | 578+200 | 578+800 | 0.60 | | | | | | | | - | |
| | | | 580+000 | 630+000 | 50.00 | | | | | | | | 51.00 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 65.00 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | Longitud m | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.7 | **Cordón de Hormigón** | ml. | | | | | | | | | | | | 411.80 |
| | según Planilla Computo | | | | | | | | | | | | 411.80 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 411.80 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | Longitud m | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.9 | **Baranda de Defensa Tipo Flex Beam** | ml. | | | | | | | | | | | | 13,244.00 |
| | según Planilla Computo | | 549+000 | 562+500 | | | | | | | | | 13,244.00 | |
| | | | 580+000 | 630+000 | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 13,244.00 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | Longitud m | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3.10 | **Pórtico de Señalización** | Un. | | | | | | | | | | | | - |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | - | |

| 4.0 | SERVICIOS ESPECIALIZADOS |
|---|---|

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.1 | **Servicios Especializados** | gl | | | | | | | | | | | | 1.06 |
| | | | 549+000 | 562+500 | 13.50 | | | | | | | | 0.35 | |
| | | | 578+200 | 578+800 | 0.60 | | | | | | | | 0.35 | |
| | | | 580+000 | 630+000 | 50.00 | | | | | | | | 0.35 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1.06 | |

| 5.0 | MOVILIZACION DE OBRA |
|---|---|

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud km | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.1 | **Movilizacion de Obra** | gl | | | | | | | | | | | | 1.00 |
| | | | 549+000 | 562+500 | 13.50 | | | | | | | | 0.33 | |
| | | | 578+200 | 578+800 | 0.60 | | | | | | | | 0.33 | |
| | | | 580+000 | 630+000 | 50.00 | | | | | | | | 0.33 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1.00 | |

Ing. Ezequiel Romano
Representante Legal



Folio Nº: 026 (VeintiSeis)
MS CIENTO QUINCE)

# Diseño Final de Ingeniería La Patria-Infante Rivarola (Refuerzos 2da INTERVENCION)
## Progresiva 647+000 a 761+600

## 1.0 MOVIMIENTO DE SUELOS

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud Km | Ancho real | Ancho Proy. | TASA Ha/Km | SUP. Há | Long. Equivalente Km | | CANT a Comp. | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.1 | Limpieza de Franja de Dominio | km | | | | | | | | | | | | |
| | | | 647+000 | 761+562 | 114,56 | 50 | 90 | 9,00 | 573 | 63,65 | | 63,65 | 63,65 | 63,65 |
| | | | | | | | | | | | | | 63,65 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho a | Esp. e | TASA | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.3 | Excavacion de Zanjas de Drenaje | m3 | | | | | | | | | | | | |
| | En Interseccion LA PATRIA | | | | 320,00 | 1,50 | 0,65 | | | 312,00 | | | 312,00 | 312,00 |
| | | | | | | | | | | | | | 312,00 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho a | Esp. e | Lado | SUP. m2 | VOL. m3 | VOL lts | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.4 | Terraplen | m3 | | | | | | | | | | | | |
| | En Accesos y darsena para Estacionamiento | | 647+000 | 761+562 | | | 0,30 | | 241,08 | 72,32 | | 25,00 | 1.808,07 | 2.881,69 |
| | En interseccion LA PATRIA | | | | | | 0,35 | | 1.350,00 | 472,32 | | 1,00 | 472,32 | |
| | En estacionamiento en Aduana Paraguaya | | | | | | | | | | | | | |
| | | | 760+726 | 761+026 | 300 | 1,75 | 0,40 | DER | 525 | 210 | | 1,00 | 210,00 | |
| | | | 761+155 | 761+259 | 104 | 1,75 | 0,40 | DER | 182 | 73 | | 1,00 | 72,80 | |
| | | | 761+160 | 761+354 | 194 | 1,75 | 0,40 | IZQ | 340 | 136 | | 1,00 | 135,80 | |
| | | | 761+384 | 761+562 | 178 | 1,75 | 0,40 | DER | 312 | 125 | | 1,00 | 124,60 | |
| | | | 761+479 | 761+562 | 83 | 1,75 | 0,40 | IZQ | 145 | 58 | | 1,00 | 58,10 | |
| | | | | | | | | | | | | | 2.881,69 | |

## 2.0 PAVIMENTOS

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho m | Esp. m | Lado | SUP. m2 | VOL. m3 | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.2 | Base Superior de concreto Asfáltico con Polímero | m3 | | | | | | | | | | | | |
| | En calzada | | | | | | | | | | | | | 12.867,73 |
| | | | 750+400 | 748+000 | 2.400 | 7,20 | 0,05 | I y D | 17.280 | 864,00 | | | 864,00 | |
| | | | 733+000 | 729+400 | 3.600 | 7,20 | 0,04 | I y D | 25.920 | 1.036,80 | | | 1.036,80 | |
| | | | 719+000 | 716+416 | 2.584 | 3,60 | 0,05 | D | 9.302 | 465,12 | | | 465,12 | |
| | | | 719+000 | 714+780 | 4.220 | 3,60 | 0,05 | I | 15.192 | 759,60 | | | 759,60 | |
| | | | 716+416 | 709+820 | 6.596 | 3,60 | 0,05 | D | 23.746 | 1.187,28 | | | 1.187,28 | |
| | | | 714+780 | 709+787 | 4.993 | 3,60 | 0,05 | I | 17.975 | | | | 898,74 | |
| | | | 709+787 | 708+000 | 1.787,00 | 3,60 | 0,05 | I | 6.433 | | | | 321,66 | |
| | | | 709+820 | 708+000 | 1.820 | 3,60 | 0,05 | D | 6.552 | 328 | | | 327,60 | |
| | | | 708+000 | 702+000 | 6.000 | 7,20 | 0,05 | I y D | 43.200 | 2.160 | | | 2.160,00 | |
| | | | 667+000 | 681+000 | 14.000 | 7,20 | 0,04 | I y D | 100.800 | 4.032 | | | 4.032,00 | |
| | | | 761+026 | 760+700 | 326 | 1,75 | 0,05 | LD | 571 | 29 | | | 28,53 | |
| | | | 761+155 | 761+562 | 407 | 1,75 | 0,05 | LD | 712 | 36 | | | 35,61 | |
| | | | 761+160 | 761+562 | 402 | 1,75 | 0,05 | LI | 704 | 35 | | | 35,18 | |
| | Rotonda Infante (Militares) | | | | 690 | 1,75 | 0,05 | LD | 1.208 | 60 | | | 60,38 | |
| | Rotonda Infante (Militares) | | | | 610 | 1,75 | 0,05 | LI | 1.068 | 53 | | | 53,38 | |
| | En interseccion LA PATRIA | | | | | | 0,05 | | 1.350 | 0 | | | 67,50 | |
| | En darsenas | | | | | | | | | | | | | |
| | | | 759+760 | | 107,14 | 2,25 | 0,05 | IZQ | 241 | | | | 12,05 | |
| | | | 754+760 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 749+760 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 749+760 | | 125 | 3,50 | 0,05 | IZQ | 438 | 22 | | | 21,88 | |
| | | | 744+760 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 738+340 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 733+020 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 733+020 | | 125 | 3,50 | 0,04 | DER | 438 | 18 | | | 17,50 | |
| | | | 731+640 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 731+640 | | 125 | 3,50 | 0,04 | IZQ | 438 | 18 | | | 17,50 | |
| | | | 728+300 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 724+740 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 716+900 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 716+900 | | 125 | 3,50 | 0,05 | IZQ | 438 | 22 | | | 21,88 | |
| | | | 711+940 | | 107 | 2,25 | 0,06 | IZQ | 241 | 14 | | | 14,46 | |
| | | | 711+940 | | 125 | 3,50 | 0,05 | IZQ | 438 | 22 | | | 21,88 | |
| | | | 706+712 | | 107 | 2,25 | 0,07 | DER | 241 | 17 | | | 16,87 | |
| | | | 706+712 | | 125 | 3,50 | 0,05 | DER | 438 | 22 | | | 21,88 | |
| | | | 702+537 | | 107 | 2,25 | 0,07 | IZQ | 241 | 17 | | | 16,87 | |
| | | | 702+538 | | 125 | 3,50 | 0,05 | IZQ | 438 | 22 | | | 21,88 | |
| | | | 699+895 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 694+200 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 691+470 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 682+470 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 686+320 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 682+400 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 677+460 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 672+200 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 649+720 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 646+600 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 677+460 | | 125 | 3,50 | 0,04 | IZQ | 438 | 18 | | | 17,50 | |
| | | | 672+200 | | 125 | 3,50 | 0,04 | IZQ | 438 | 18 | | | 17,50 | |
| | | | 669+620 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 669+620 | | 125 | 3,50 | 0,04 | DER | 438 | 18 | | | 17,50 | |
| | | | 666+700 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | 664+700 | | 107 | 2,25 | 0,05 | IZQ | 241 | 12 | | | 12,05 | |
| | | | 659+880 | | 107 | 2,25 | 0,05 | DER | 241 | 12 | | | 12,05 | |
| | | | | | | | | | | | | | 12.867,73 | |

| Nº | ITEMS DE OBRA | UNID. | KILOMETROS INI. | KILOMETROS FIN | Longitud m | Ancho m | Esp. m | Lado | SUP. m2 | VOL. m3 | | CANT | TOT. | Cantidad Adoptada |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.3 | Carpeta de Concreto Asfáltico con Polímero | m3 | | | | | | | | | | | | |
| | En estacionamiento en Aduana Paraguaya | | | | | | | | | | | | | 47.252,70 |
| | | | 761+026 | 760+700 | 326 | | 0,05 | DER | | | | | 48,90 | |
| | | | 761+026 | 761+073 | 47 | | 0,05 | DER | | | | | 7,05 | |
| | | | 761+118 | 761+259 | 141 | | 0,05 | DER | | | | | 21,15 | |
| | | | 761+000 | 761+073 | 73 | | 0,05 | IZQ | | | | | 10,95 | |
| | | | 761+118 | 761+354 | 236 | | 0,05 | IZQ | | | | | 35,40 | |
| | | | 761+259 | 761+384 | 125 | | 0,05 | DER | | | | | 18,75 | |
| | | | 761+354 | 761+479 | 125 | | 0,05 | IZQ | | | | | 18,75 | |
| | | | 761+384 | 761+562 | 178 | | 0,05 | DER | | | | | 26,70 | |
| | | | 761+479 | 761+562 | 83 | | 0,05 | IZQ | | | | | 12,45 | |
| | En calzada | | | | | | | | | | | | | |
| | | | 761+562 | 761+000 | 562 | | 0,05 | I y D | | | | | 199,51 | |
| | | | 761+000 | 750+400 | 10.600 | | 0,05 | I y D | | | | | 3.763,00 | |
| | | | 750+400 | 748+000 | 2.400 | | 0,05 | I y D | | | | | 852,00 | |
| | | | 748+000 | 744+000 | 4.000 | | 0,07 | I y D | | | | | 1.988,00 | |
| | | | 744+000 | 733+000 | 11.000 | | 0,05 | I y D | | | | | 3.905,00 | |
| | | | 733+000 | 729+400 | 3.600 | | 0,04 | I y D | | | | | 1.022,40 | |
| | | | 729+400 | 726+000 | 3.400 | | 0,05 | I y D | | | | | 1.207,00 | |
| | | | 726+000 | 722+000 | 4.000 | | 0,07 | I y D | | | | | 1.988,00 | |
| | | | 722+000 | 719+000 | 3.000 | | 0,07 | I y D | | | | | 1.491,00 | |

ING. EZEQUIEL ROMANO
REPRESENTANTE TECNICO
Consorcio Rovella Carranza S.A. y Asoc.



Folio Nº: 027 (VeintiSiete)