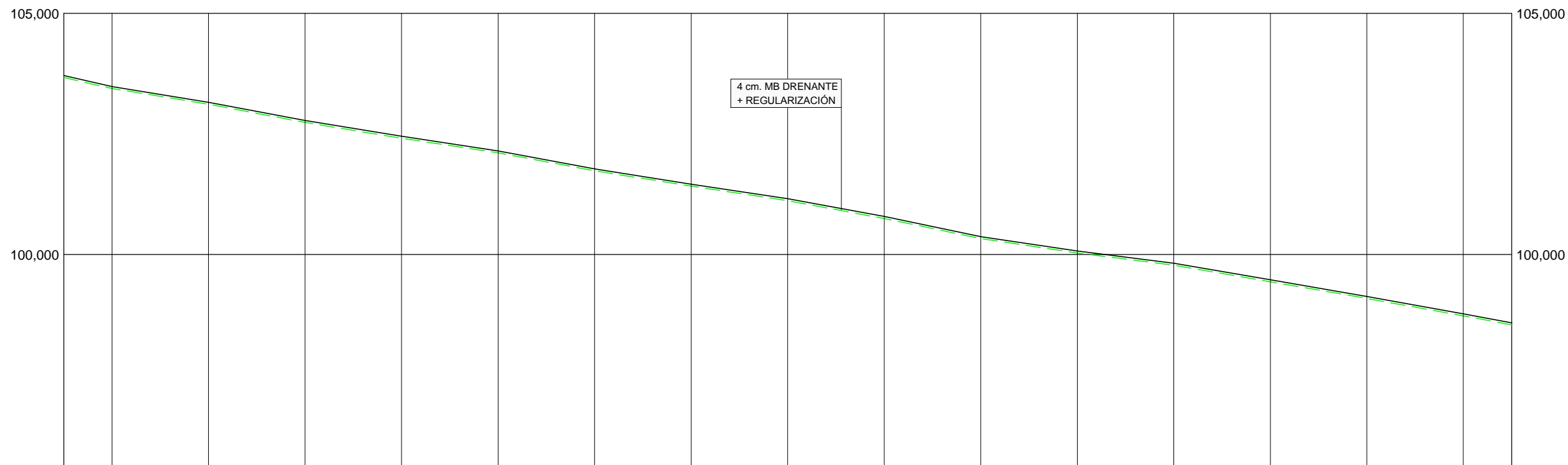
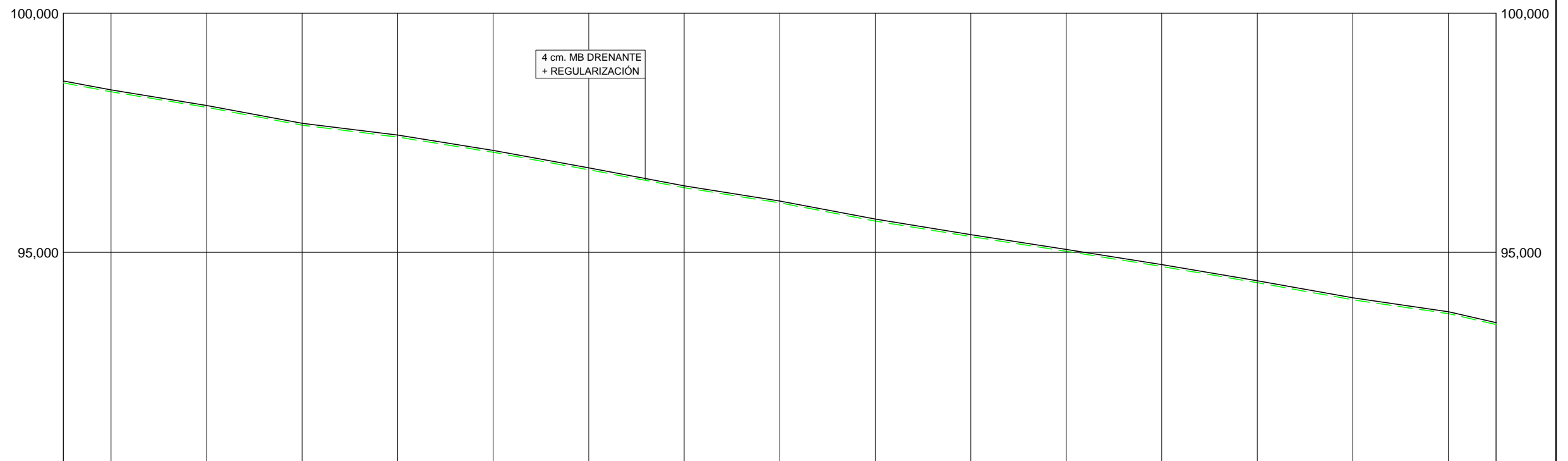


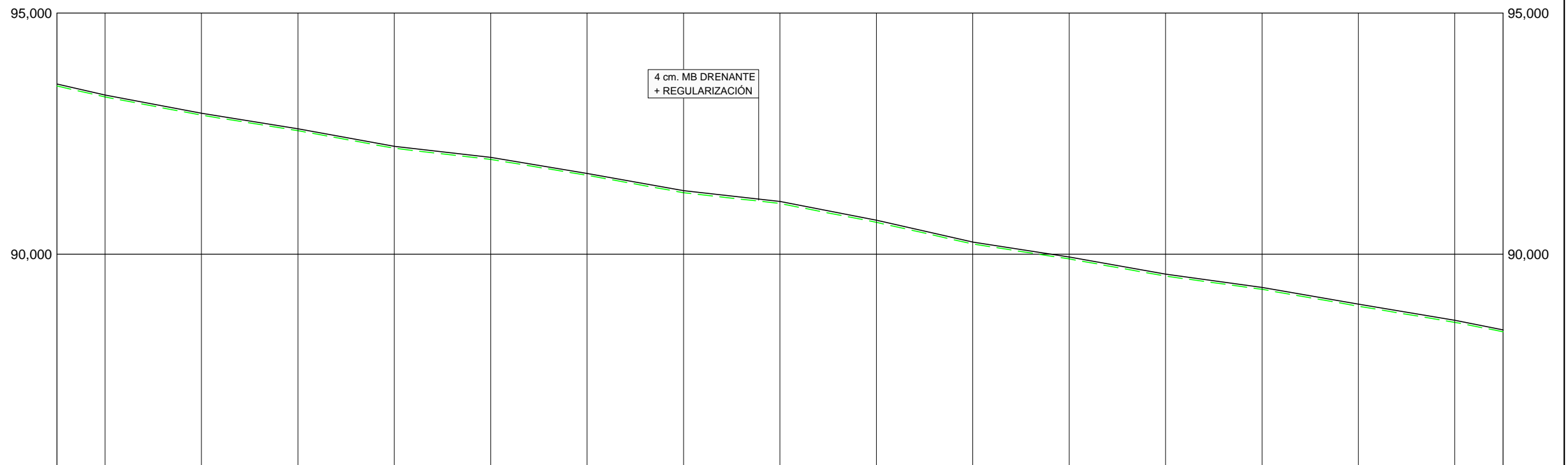
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|-----------------------|--------------------------------------|---------------|---------|---------|---------|---------|---------|------------|---------|---------|------------|---------|---------|------------|---------|---------|---------|---------|--|
| COTAS | ACTUAL | 105,223 | 105,399 | 105,509 | 105,566 | 105,649 | 105,728 | 105,702 | 105,600 | 105,466 | 105,416 | 105,268 | 105,081 | 104,838 | 104,497 | 104,154 | 103,898 | 103,669 | |
| KILOMETRAJE | | 52+700 | | | 52+800 | | | | | | 52+900 | | | | | | 52+970 | | |
| DIAGRAMA DE CURVATURA | | $R=1.125,000$ | | | | | | | | | | | | | | | | | |
| | $C = 200,00/R \text{ (mm.)}$ | $A=389,282$ | | | | | | | | | | | | | | | | | |
| DIAGRAMA DE PERALTES | | $A=303,350$ | | | | | | | | | | | | | | | | | |
| | ESCALA 1% = 1,000 mm | $3,72$ | | | | | | | | | | | | | | | | | |
| | Izquierdo — — — — — Derecho ————— | $3,72$ | | | | | | | | | | | | | | | | | |
| | | $2,00$ | | | | | | | | | | | | | | | | | |
| | | $0,00$ | | | | | | | | | | | | | | | | | |
| | | $-2,00$ | | | | | | | | | | | | | | | | | |
| | | 52+798,995 | | | | | | 52+909,698 | | | 52+933,698 | | | 52+957,698 | | | | | |



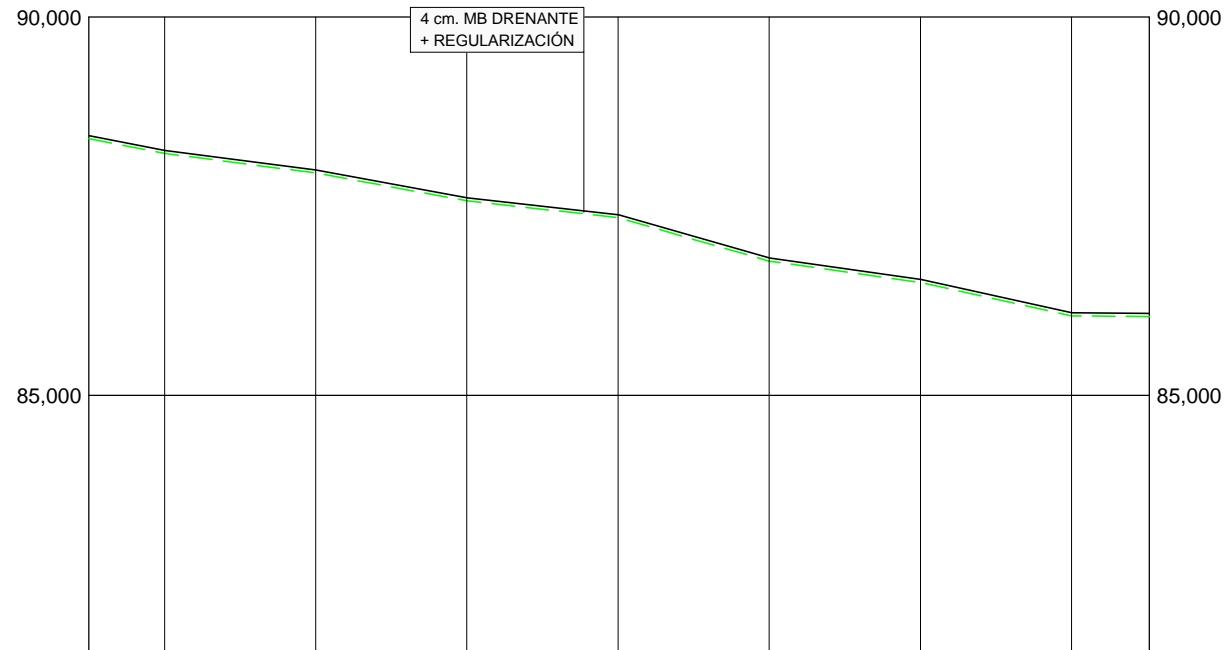
| | | | | | | | | | | | | | | | | | | |
|-----------------------|--------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| COTAS | ACTUAL | 103,669 | 103,441 | 103,116 | 102,738 | 102,410 | 102,108 | 101,736 | 101,418 | 101,117 | 100,747 | 100,331 | 100,032 | 99,779 | 99,435 | 99,089 | 98,728 | 98,542 |
| KILOMETRAJE | | 53+000 | | | | 53+100 | | | | 53+200 | | | | | 53+270 | | | |
| DIAGRAMA DE CURVATURA | | <p>$C = 200,00/R$ (mm.)</p> <p>A=303,350 R=-800,000 A=280,133</p> | | | | | | | | | | | | | | | | |
| DIAGRAMA DE PERALTES | | <p>ESCALA 1% = 1,000 mm</p> <p>Izquierdo </p> <p>Derecho </p> <p style="text-align: center;">-4,77 53+048,725 -4,77 53+261,251</p> | | | | | | | | | | | | | | | | |



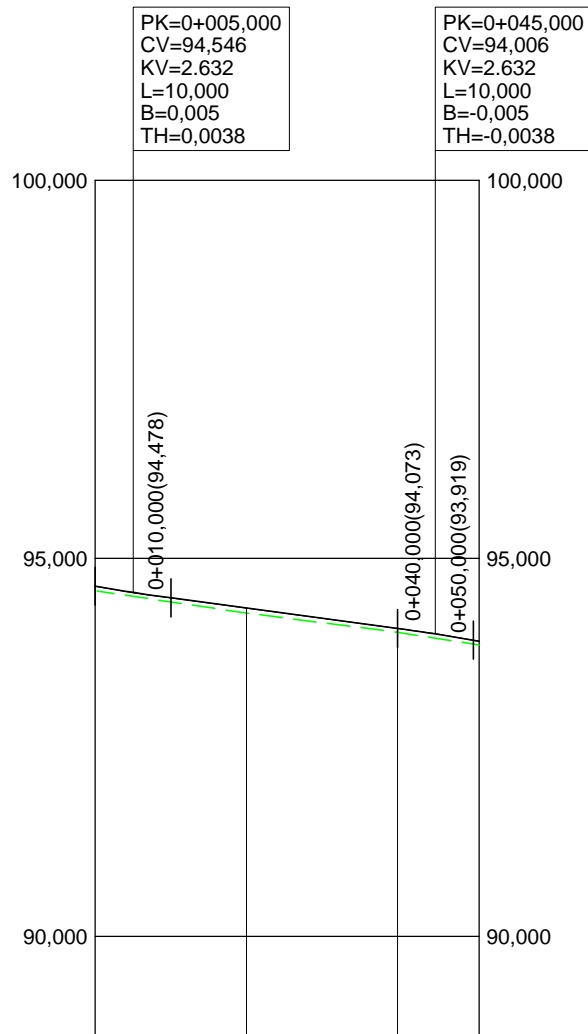
| | | | | | | | | | | | | | | | | | | |
|-----------------------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| COTAS | ACTUAL | 98,542 | 98,357 | 98,032 | 97,659 | 97,410 | 97,092 | 96,726 | 96,351 | 96,034 | 95,654 | 95,330 | 95,021 | 94,704 | 94,364 | 94,007 | 93,718 | 93,489 |
| KILOMETRAJE | | 53+300 | | | | | 53+400 | | | | | 53+500 | | | | | 53+570 | |
| DIAGRAMA DE CURVATURA | | $C = 200,00/R \text{ (mm.)}$ | | | | | | | | | | | | | | | | |
| DIAGRAMA DE PERALTES | | ESCALA 1%= 1,000 mm Izquierdo - - - - - Derecho _____ | | | | | | | | | | | | | | | | |



| | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| COTAS | ACTUAL | 93,489 | 93,260 | 92,884 | 92,562 | 92,197 | 91,967 | 91,636 | 91,277 | 91,052 | 90,663 | 90,213 | 89,903 | 89,547 | 89,273 | 88,924 | 88,589 | 88,393 | |
| KILOMETRAJE | | 53+600 | | | | 53+700 | | | | 53+800 | | | | | 53+870 | | | | |
| DIAGRAMA DE CURVATURA | | $A=500,000$ $R=2.600,000$ | | | | | | | | | | | | | | | | | |
| C = 200,00/R (mm.) | | | | | | | | | | | | | | | | | | | |
| DIAGRAMA DE PERALTES | | $2,00$ $53+590,560$ $2,00$ | | | | | | | | | | | | | | | | | |
| ESCALA 1% = 1,000 mm | | | | | | | | | | | | | | | | | | | |
| Izquierdo — — — — — | | | | | | | | | | | | | | | | | | | |
| Derecho ————— | | | | | | | | | | | | | | | | | | | |

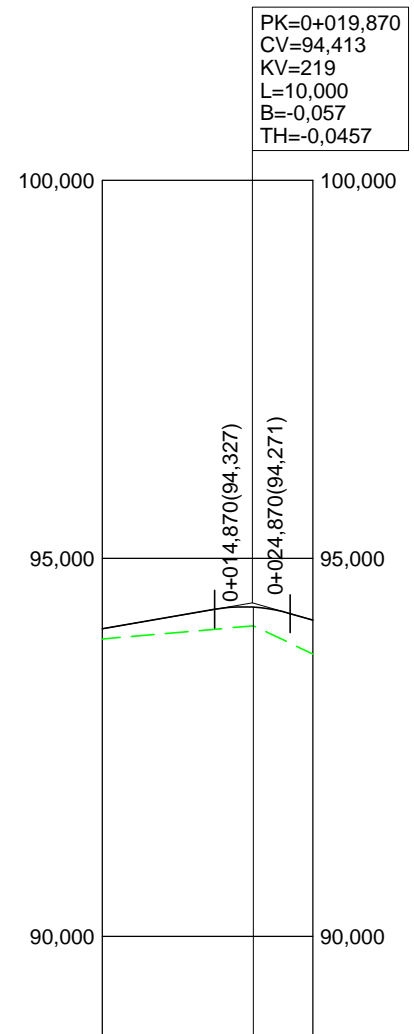


| | | | | | | | | | | |
|-----------------------|--------|-------------|--------|--------|--------|--------|--------|--------|-------------------|--|
| COTAS | ACTUAL | 88,393 | 88,198 | 87,939 | 87,572 | 87,348 | 86,774 | 86,490 | 86,050 | |
| KILOMETRAJE | | 53+900 | | | | | | | 54+000 54+010,277 | |
| DIAGRAMA DE CURVATURA | | R=2.600,000 | | | | | | | | |
| C = 200,00/R (mm.) | | RECTA | | | | | | | | |
| DIAGRAMA DE PERALTES | | | | | | | | | | |
| ESCALA 1% = 1,000 mm | | | | | | | | | | |
| Izquierdo - - - - - | | | | | | | | | | |
| Derecho ————— | | | | | | | | | | |



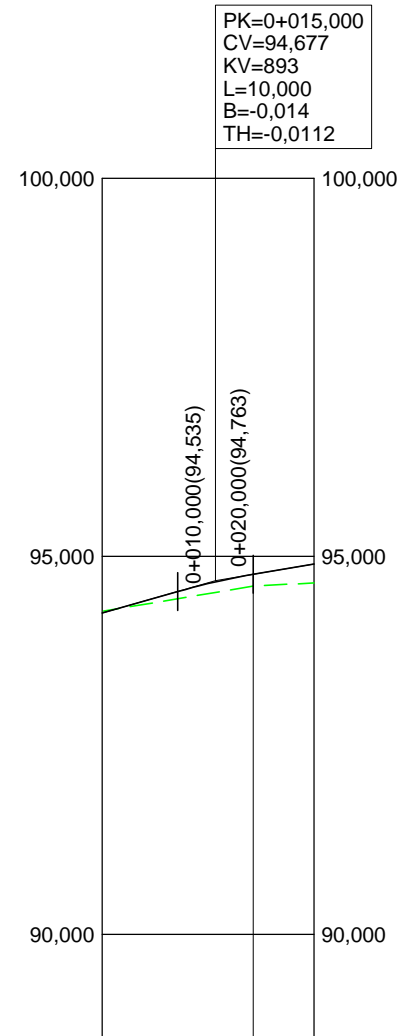
| | | | | | |
|-----------------------|-------------|--------|--------|-----------|--------|
| RAMPAS Y PENDIENTES | | -1,35% | | -1,73% | |
| COTAS | PROYECTADA | 94,632 | 94,343 | 94,073 | 93,906 |
| | ACTUAL | | 94,277 | 94,023 | 93,855 |
| | DIFERENCIAS | | 0,066 | 0,050 | 0,051 |
| KILOMETRAJE | | 0+000 | | 0+050,763 | |
| DIAGRAMA DE CURVATURA | | | | | |
| DIAGRAMA DE PERALTES | | | | | |
| ESCALA 1% = 1,000 mm | | | | | |
| Izquierdo — — — — — | | | | | |
| Derecho — — — — — | | | | | |

1.1.1 INT. SUNBILLA NORTE-NORTE ACCESO MARGEN DERECHA



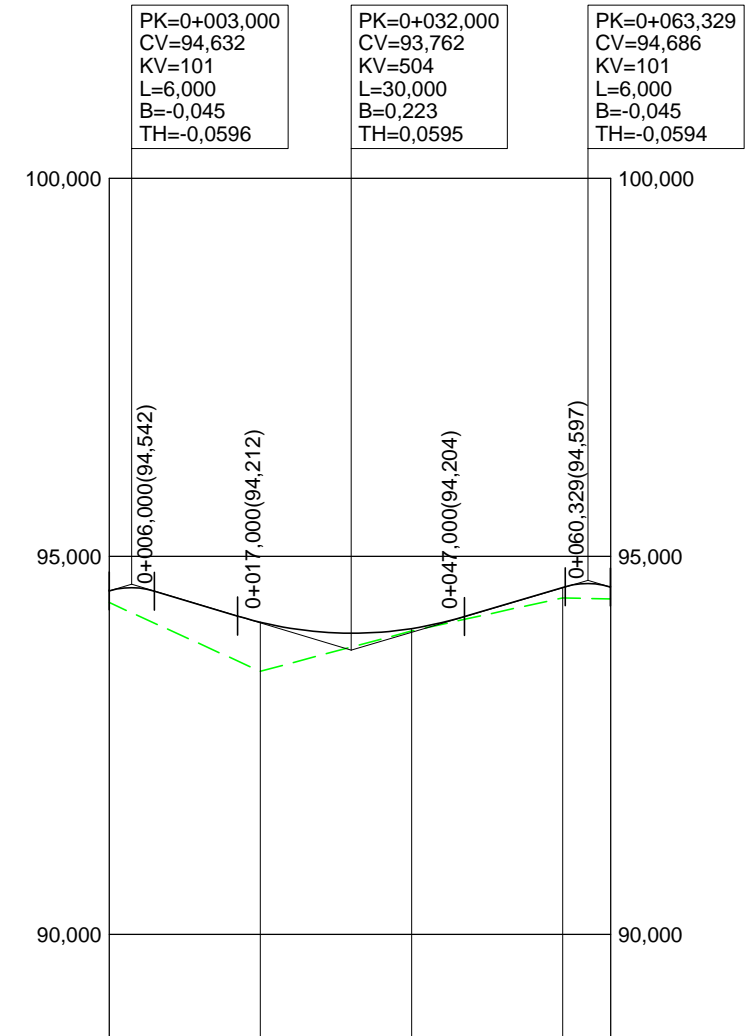
| | | | | | |
|-----------------------|-------------|--------|--------|-----------|--|
| RAMPAS Y PENDIENTES | | 1,73% | | -2,84% | |
| COTAS | PROYECTADA | 94,070 | 94,355 | 94,186 | |
| | ACTUAL | 93,933 | 94,108 | | |
| | DIFERENCIAS | 0,137 | 0,247 | | |
| KILOMETRAJE | | 0+000 | | 0+027,860 | |
| DIAGRAMA DE CURVATURA | | | | | |
| DIAGRAMA DE PERALTES | | | | | |
| ESCALA 1% = 1,000 mm | | | | | |
| Izquierdo — — — — — | | | | | |
| Derecho — — — — — | | | | | |

1.1.2 INT. SUNBILLA NORTE-NORTE RAMAL DECELERACIÓN MARGEN IZQUIERDA



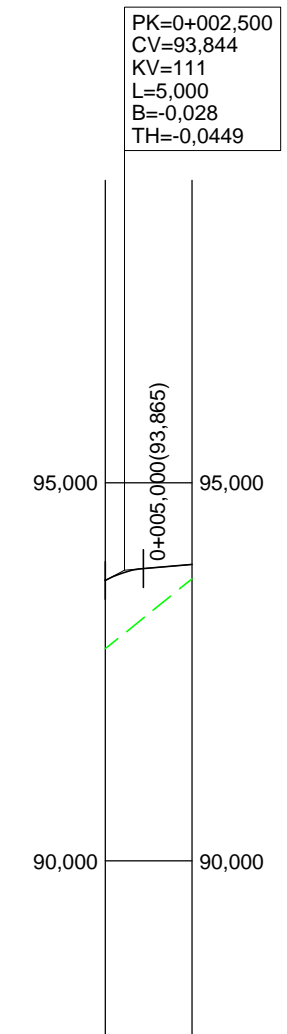
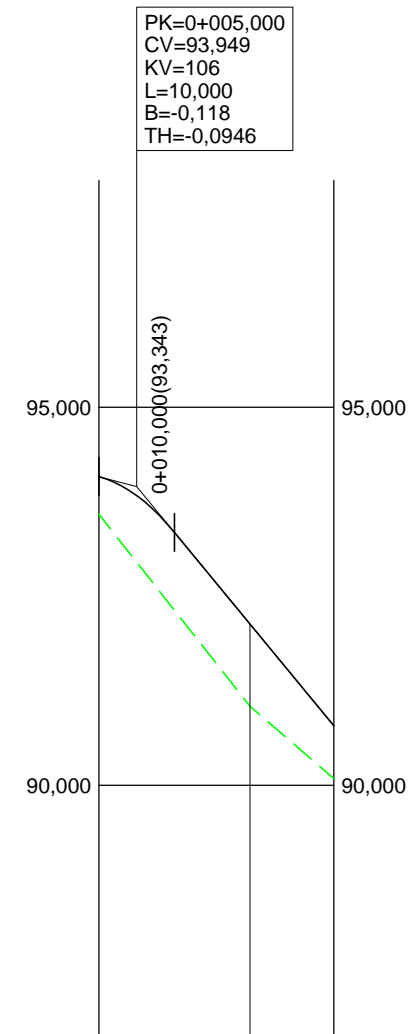
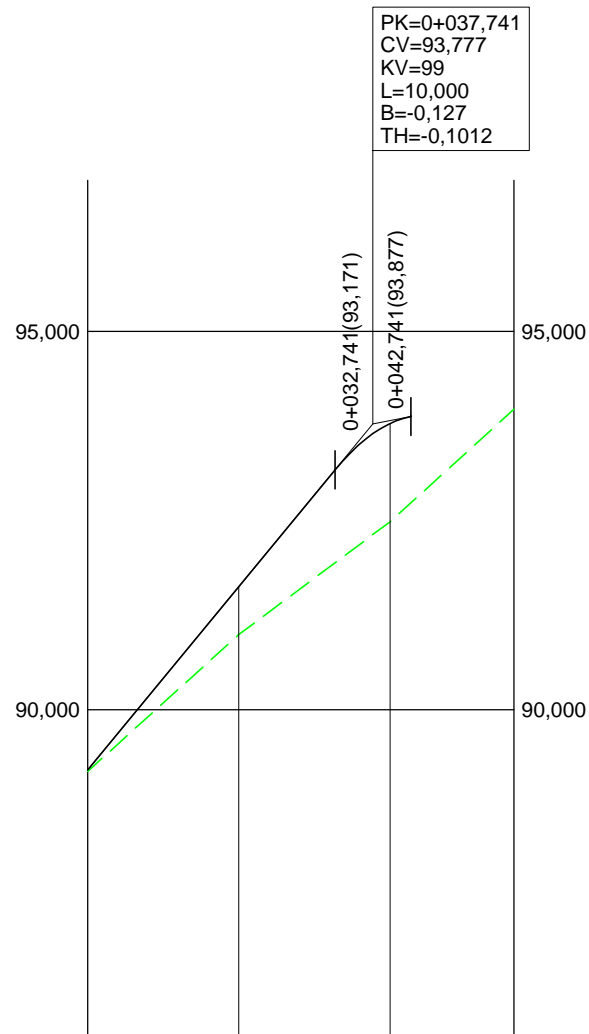
| | | | | |
|-----------------------|-------------|----------|-----------|--------|
| RAMPAS Y PENDIENTES | | 2,85% | 1,73% | |
| COTAS | PROYECTADA | 94,250 | 94,763 | 94,902 |
| | ACTUAL | | 94,606 | 94,649 |
| | DIFERENCIAS | | 0,157 | 0,253 |
| KILOMETRAJE | | 0+000 | 0+028,024 | |
| DIAGRAMA DE CURVATURA | | R=18,500 | | |
| C = 25,00/R (mm.) | | | | |
| DIAGRAMA DE PERALTES | | | | |
| ESCALA 1%= 1,000 mm | | | | |
| Izquierdo - - - - - | | | | |
| Derecho - - - - - | | | | |

1.1.3 INT. SUNBILLA NORTE-NORTE RAMAL ACELERACIÓN MARGEN IZQUIERDA



| | | | | | | |
|-----------------------|-------------|--------|--------|--------|-----------|--------|
| RAMPAS Y PENDIENTES | | -3,00% | 2,95% | -2,99% | | |
| COTAS | PROYECTADA | 94,543 | 94,131 | 94,046 | 94,588 | 94,596 |
| | ACTUAL | 94,389 | 93,481 | 94,013 | 94,451 | |
| | DIFERENCIAS | 0,154 | 0,650 | 0,033 | 0,137 | |
| KILOMETRAJE | | 0+000 | | | 0+066,329 | |
| DIAGRAMA DE CURVATURA | | | | | | |
| C = 25,00/R (mm.) | | | | | | |
| DIAGRAMA DE PERALTES | | | | | | |
| ESCALA 1%= 1,000 mm | | | | | | |
| Izquierdo - - - - - | | | | | | |
| Derecho - - - - - | | | | | | |

1.1.4 INT. SUNBILLA NORTE-NORTE GLORIETA GOTA MARGEN IZQUIERDA



| | | | | | |
|-----------------------|-------------|---------------------|--------|-----------|--------|
| RAMPAS Y PENDIENTES | | 12,12% | | 2,00% | |
| COTAS | PROYECTADA | 89,203 | 91,627 | 93,784 | |
| | ACTUAL | 89,183 | 90,993 | 92,485 | 93,972 |
| | DIFERENCIAS | 0,020 | 0,634 | 1,299 | |
| KILOMETRAJE | | 0+000 | | 0+056,409 | |
| DIAGRAMA DE CURVATURA | | C = 25,00/R (mm.) | | | |
| | | | | | |
| DIAGRAMA DE PERALTES | | ESCALA 1%= 1,000 mm | | | |
| | | | | | |

| | | | | | |
|-----------------------|-------------|---------------------|--------|-----------|--|
| RAMPAS Y PENDIENTES | | -12,12% | | | |
| COTAS | PROYECTADA | 94,082 | 92,131 | 90,788 | |
| | ACTUAL | 93,584 | 91,043 | | |
| | DIFERENCIAS | 0,498 | 1,088 | | |
| KILOMETRAJE | | 0+000 | | 0+031,082 | |
| DIAGRAMA DE CURVATURA | | R=20,000 | | | |
| | | C = 25,00/R (mm.) | | | |
| DIAGRAMA DE PERALTES | | ESCALA 1%= 1,000 mm | | | |
| | | | | | |

| | | | | | |
|-----------------------|-------------|---------------------|--------|-----------|--|
| RAMPAS Y PENDIENTES | | 0,85% | | | |
| COTAS | PROYECTADA | 93,710 | 93,920 | | |
| | ACTUAL | 92,806 | 93,727 | | |
| | DIFERENCIAS | 0,904 | 0,193 | | |
| KILOMETRAJE | | 0+000 | | 0+011,435 | |
| DIAGRAMA DE CURVATURA | | R=30,000 | | | |
| | | C = 25,00/R (mm.) | | | |
| DIAGRAMA DE PERALTES | | ESCALA 1%= 1,000 mm | | | |
| | | | | | |

1.1.5 INT. SUNBILLA NORTE-NORTE NA-1210 MARGEN IZQUIERDA

1.1.5A INT. SUNBILLA NORTE-NORTE NA-1210 MARGEN IZQUIERDA SALIDA

1.1.5B INT. SUNBILLA NORTE-NORTE NA-1210 MARGEN IZQUIERDA ENTRADA