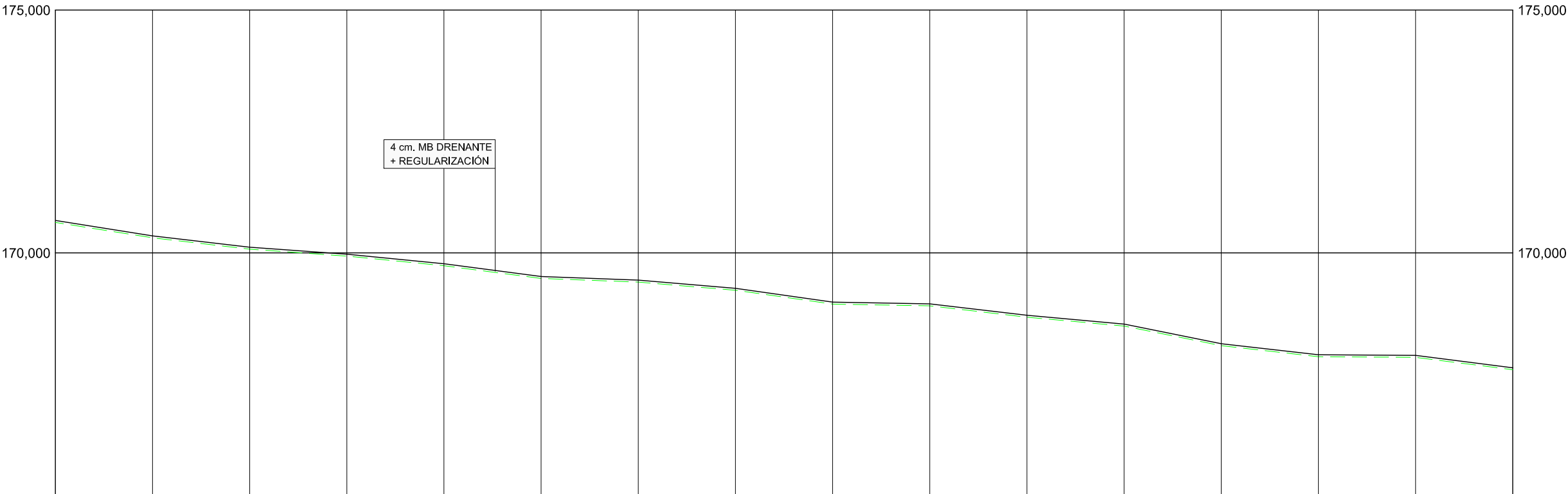
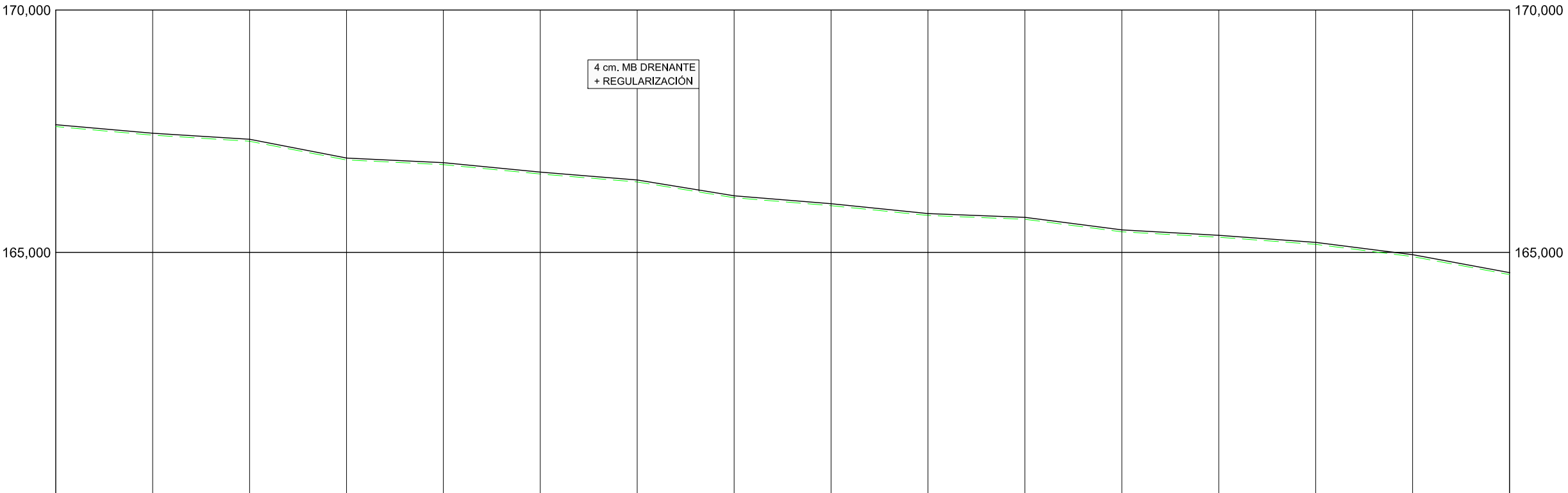
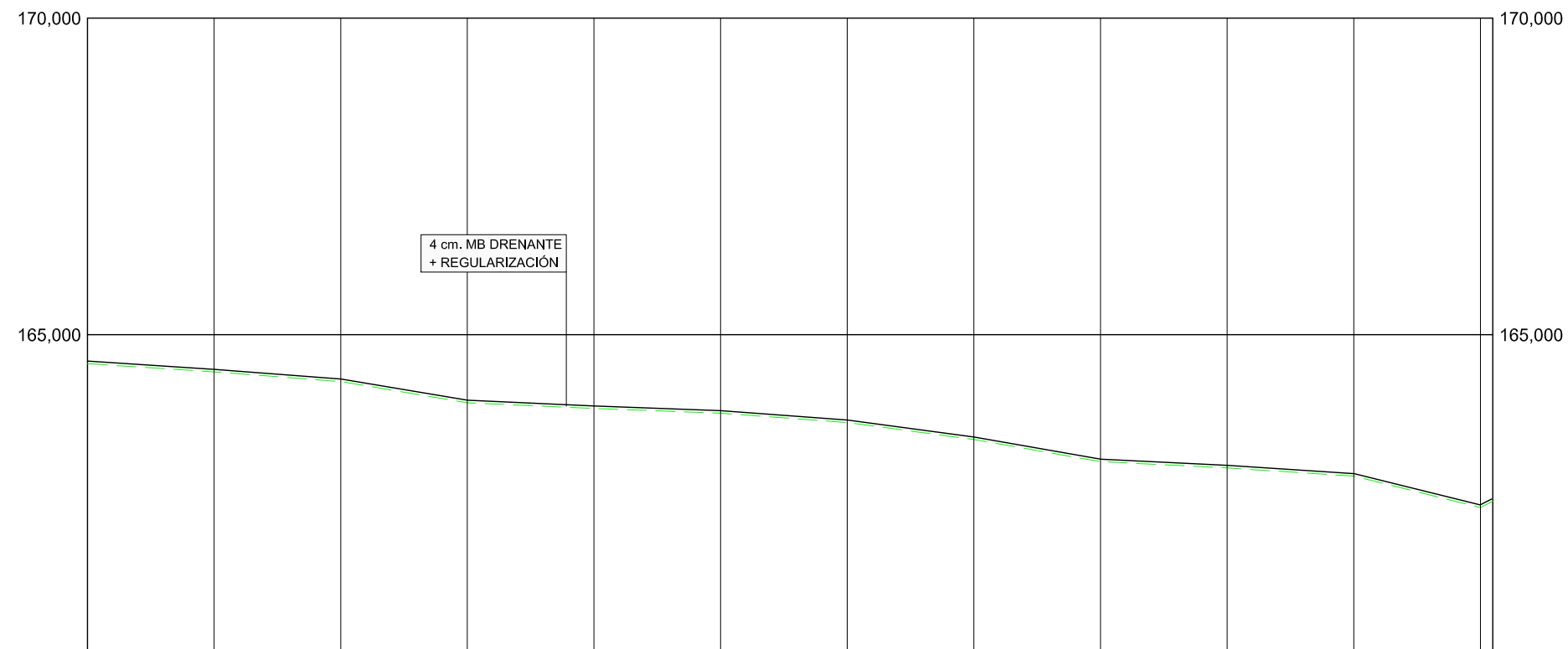




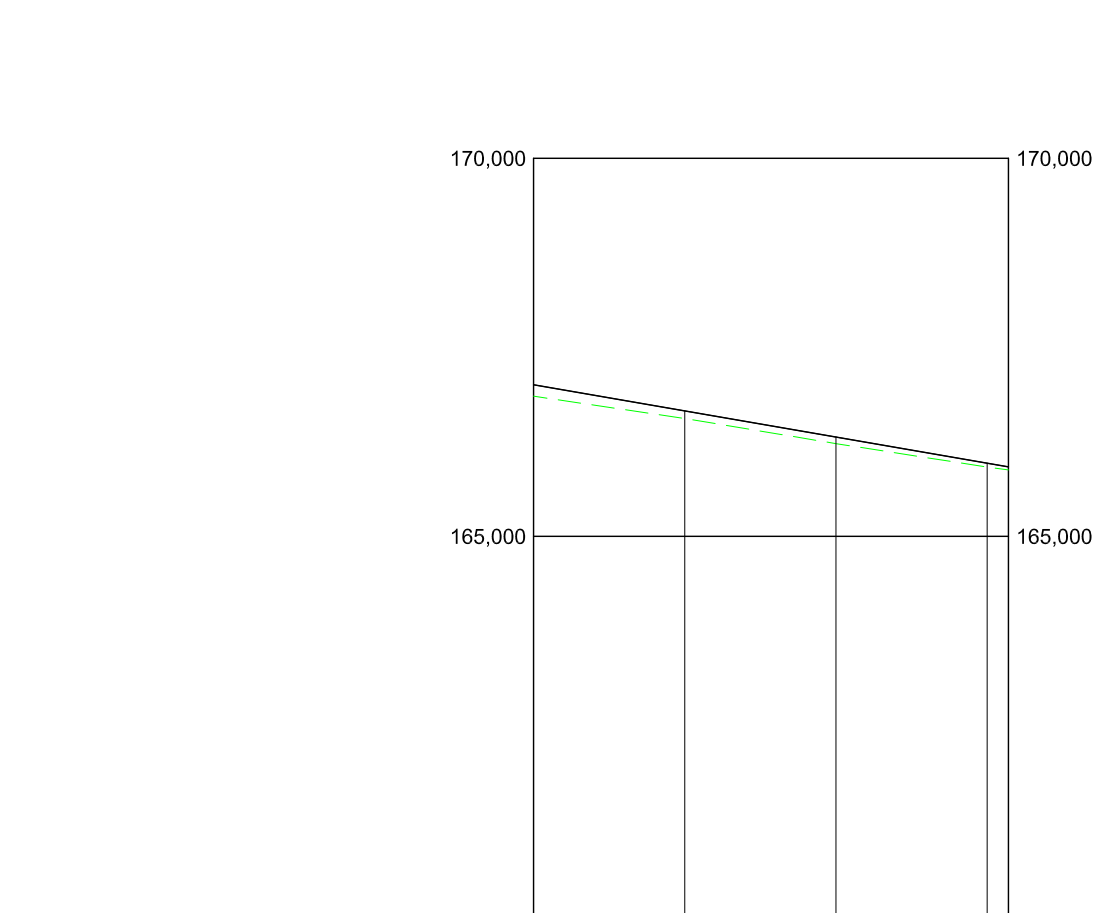
|                       |        |                                                                                                                                                                                                                                                                                                                                                                                        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| COTAS                 | ACTUAL | 170,628                                                                                                                                                                                                                                                                                                                                                                                | 170,311 | 170,077 | 169,934 | 169,736 | 169,474 | 169,399 | 169,231 | 168,946 | 168,910 | 168,677 | 168,494 | 168,091 | 167,862 | 167,850 | 167,595 |
| KILOMETRAJE           |        | 40+900                                                                                                                                                                                                                                                                                                                                                                                 |         |         |         |         | 41+000  |         |         |         |         | 41+100  |         |         |         |         | 41+200  |
| DIAGRAMA DE CURVATURA |        | <div><div>C = 200,00/R (mm.)</div><div><div><div>R=650,000</div><div>A=349,941</div><div>R=475,000</div><div>A=154,015</div><div>A=172,659</div></div></div></div>                                                                                                                                                                                                                     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| DIAGRAMA DE PERALTES  |        | <div><div>ESCALA 1%= 1,000 mm</div><div><div>Izquierdo</div><div>Derecho</div></div><div><div><div>40+934,032</div><div>41+003,442</div><div>41+096,770</div><div>41+132,576</div><div>41+147,576</div><div>41+162,576</div></div><div><div>-5,47</div><div>-5,47</div><div>-6,47</div><div>-6,47</div><div>-2,00</div><div>0,00</div><div>2,00</div><div>6,00</div></div></div></div> |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |



|                       |        |                                       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
|-----------------------|--------|---------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| COTAS                 | ACTUAL | 167,595                               | 167,419 | 167,293 | 166,907 | 166,811 | 166,617 | 166,453 | 166,128 | 165,964 | 165,762 | 165,683 | 165,424 | 165,313 | 165,166 | 164,913 | 164,543 |  |
| KILOMETRAJE           |        | 41+200                                |         | 41+300  |         |         |         |         |         | 41+400  |         |         |         |         |         | 41+500  |         |  |
| DIAGRAMA DE CURVATURA |        | A=172,659 R=554,750                   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
| C = 200,00/R (mm.)    |        | -----                                 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
| DIAGRAMA DE PERALTES  |        | 41+201,314 6,00 ----- 6,00 41+201,314 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
| ESCALA 1%= 1,000 mm   |        |                                       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
| Izquierdo -----       |        |                                       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
| Derecho -----         |        |                                       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |

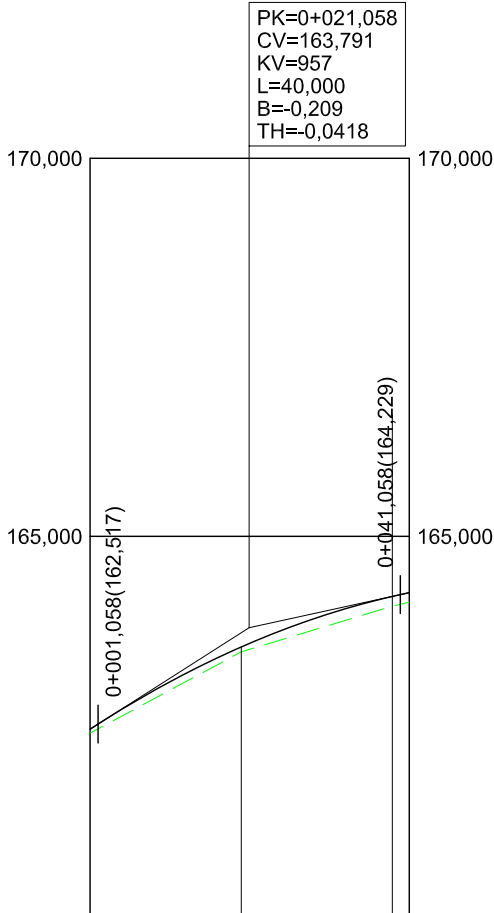


|                       |        |                                                                                                                                                                                                                                                            |         |         |         |         |         |         |         |         |         |         |         |            |
|-----------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|
| COTAS                 | ACTUAL | 164,543                                                                                                                                                                                                                                                    | 164,413 | 164,260 | 163,925 | 163,835 | 163,760 | 163,613 | 163,345 | 162,995 | 162,896 | 162,767 | 162,270 |            |
| KILOMETRAJE           |        | 41+500                                                                                                                                                                                                                                                     |         |         |         | 41+600  |         |         |         | 41+700  |         |         |         | 41+721,957 |
| DIAGRAMA DE CURVATURA |        | <div><div>R=554,750</div><div>A=162,772</div><div>C = 200,00/R (mm.)</div><div>A=382,859</div><div>R=-1.499,500</div></div>                                                                                                                                |         |         |         |         |         |         |         |         |         |         |         |            |
| DIAGRAMA DE PERALTES  |        | <div><div>ESCALA 1%= 1,000 mm</div><div>Izquierdo - - - - -</div><div>Derecho _____</div><div>41+506,07341+538,83341+553,83341+568,83341+651,587</div><div>6,002,000,00-2,00-2,99</div><div>41+506,07341+538,83341+553,83341+568,83341+651,587</div></div> |         |         |         |         |         |         |         |         |         |         |         |            |



| RAMPAS Y PENDIENTES   |             | -1,73%                                                                           |         |         |                    |
|-----------------------|-------------|----------------------------------------------------------------------------------|---------|---------|--------------------|
| COTAS                 | PROYECTADA  | 167,006                                                                          | 166,660 | 166,315 | 165,969<br>165,920 |
|                       | ACTUAL      | 166,853                                                                          | 166,558 | 166,226 | 165,916<br>165,877 |
|                       | DIFERENCIAS | 0,153                                                                            | 0,102   | 0,089   | 0,053<br>0,043     |
| KILOMETRAJE           |             | 0+000 0+062,822                                                                  |         |         |                    |
| DIAGRAMA DE CURVATURA |             | R=190,000                                                                        |         |         |                    |
| C = 25,00/R (mm.)     |             |                                                                                  |         |         |                    |
| DIAGRAMA DE PERALTES  |             | <div><div>0+000 6,00</div><div>0+020 7,00</div><div>0+000 0+020</div></div> 7,00 |         |         |                    |
| ESCALA 1%= 1,000 mm   |             |                                                                                  |         |         |                    |
| Izquierdo -----       |             |                                                                                  |         |         |                    |
| Derecho -----         |             |                                                                                  |         |         |                    |

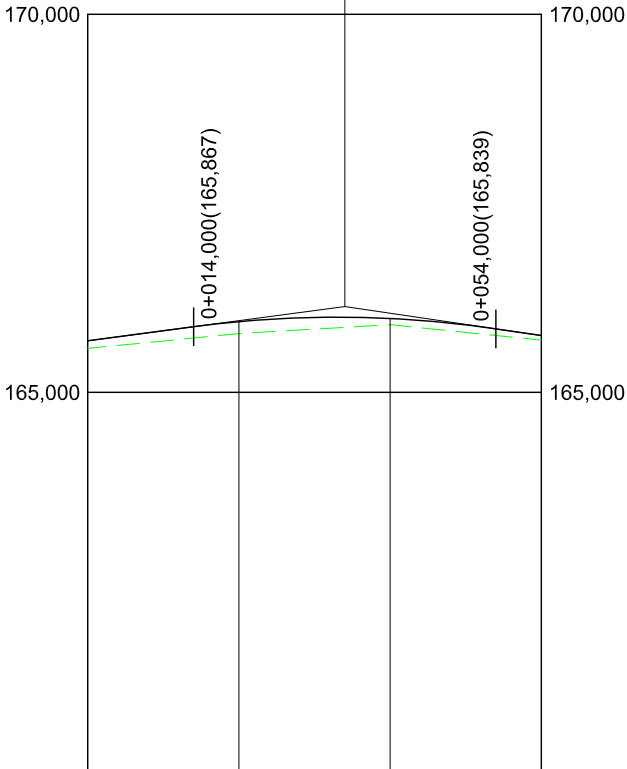
1.1.1 ENLACE ORONoz RAMAL DECELERACIÓN MARGEN DERECHA



| RAMPAS Y PENDIENTES   |             | 6,37%                                                                                    |         | 2,19%              |  |
|-----------------------|-------------|------------------------------------------------------------------------------------------|---------|--------------------|--|
| COTAS                 | PROYECTADA  | 162,450                                                                                  | 163,536 | 164,205<br>164,255 |  |
|                       | ACTUAL      | 162,396                                                                                  | 163,471 | 164,076<br>164,127 |  |
|                       | DIFERENCIAS | 0,054                                                                                    | 0,065   | 0,129<br>0,128     |  |
| KILOMETRAJE           |             | 0+000 0+042,239                                                                          |         |                    |  |
| DIAGRAMA DE CURVATURA |             | R=50,000 R=75,000                                                                        |         |                    |  |
| C = 25,00/R (mm.)     |             |                                                                                          |         |                    |  |
| DIAGRAMA DE PERALTES  |             | <div><div>0+000 7,00</div><div>0+021,694 7,00</div><div>0+000 0+021,694</div></div> 2,89 |         |                    |  |
| ESCALA 1%= 1,000 mm   |             |                                                                                          |         |                    |  |
| Izquierdo -----       |             |                                                                                          |         |                    |  |
| Derecho -----         |             |                                                                                          |         |                    |  |

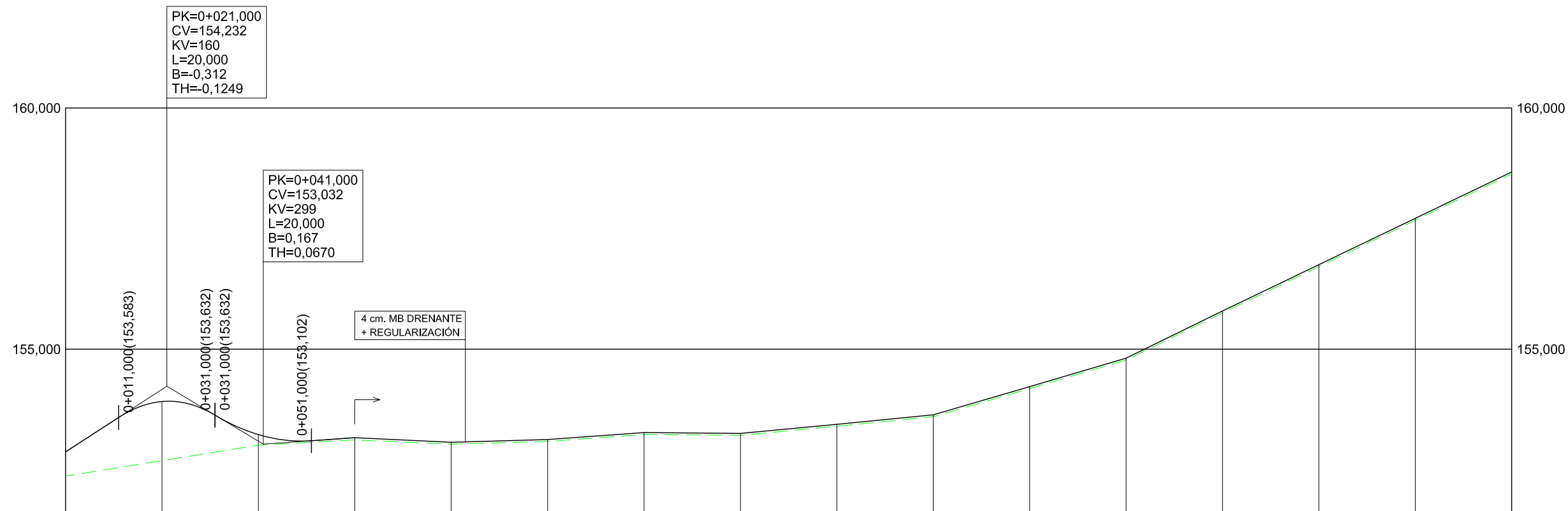
1.1.2 ENLACE ORONoz RAMAL ACELERACIÓN MARGEN DERECHA

PK=0+034,000  
CV=166,134  
KV=1.425  
L=40,000  
B=-0,140  
TH=-0,0281



| RAMPAS Y PENDIENTES   |             | 1,33%                                                                                                                             |         | -1,48%  |         |
|-----------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|
| COTAS                 | PROYECTADA  | 165,681                                                                                                                           | 165,935 | 165,976 | 165,750 |
|                       | ACTUAL      | 165,581                                                                                                                           | 165,777 | 165,894 | 165,690 |
|                       | DIFERENCIAS | 0,100                                                                                                                             | 0,158   | 0,082   | 0,060   |
| KILOMETRAJE           |             | 0+000                                                                                                                             |         | 0+060   |         |
| DIAGRAMA DE CURVATURA |             | <div><div>R=350,000</div><div>RECTA</div></div>                                                                                   |         |         |         |
| C = 25,00/R (mm.)     |             |                                                                                                                                   |         |         |         |
| DIAGRAMA DE PERALTES  |             | <div><div>0+000</div><div>-6,00</div><div>0+000</div><div>2,00</div><div>0+048,270</div><div>2,00</div><div>0+048,270</div></div> |         |         |         |
| ESCALA 1%= 1,000 mm   |             |                                                                                                                                   |         |         |         |
| Izquierdo — — — — —   |             |                                                                                                                                   |         |         |         |
| Derecho —————         |             |                                                                                                                                   |         |         |         |

1.1.3 ENLACE ORONOZ RAMAL DECELERACIÓN MARGEN IZQUIERDA

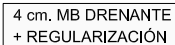


|                       |             |                                                                                                                                                                                                                                                                                                  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
|-----------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| RAMPAS Y PENDIENTES   |             | 6,49%                                                                                                                                                                                                                                                                                            |         | -6,00%  |         | 0,70%   |         |         |         |         |         |         |         |         |         |         |         |  |
| COTAS                 | PROYECTADA  | 152,870                                                                                                                                                                                                                                                                                          | 153,914 | 153,228 | 153,165 |         |         |         |         |         |         |         |         |         |         |         |         |  |
|                       | ACTUAL      | 152,367                                                                                                                                                                                                                                                                                          | 152,687 | 153,009 | 153,118 | 153,029 | 153,086 | 153,230 | 153,212 | 153,402 | 153,597 | 154,183 | 154,773 | 155,750 | 156,710 | 157,670 | 158,631 |  |
|                       | DIFERENCIAS | 0,503                                                                                                                                                                                                                                                                                            | 1,227   | 0,219   | 0,047   |         |         |         |         |         |         |         |         |         |         |         |         |  |
| KILOMETRAJE           |             | 0+000                                                                                                                                                                                                                                                                                            |         |         |         | 0+100   |         |         |         | 0+200   |         |         |         | 0+300   |         |         |         |  |
| DIAGRAMA DE CURVATURA |             | <div><div><div>R=50,000</div><div>C = 25,00/R (mm.)</div></div><div><div>RECTA</div><div>A=62,000</div><div>R=-85,000</div></div></div>                                                                                                                                                          |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |
| DIAGRAMA DE PERALTES  |             | <div><div><div>0+000</div><div>-2,00</div></div><div><div>0+000</div><div>0+241,263</div><div>-2,00</div><div>0+241,263</div><div>0+281,019</div><div>-7,00</div><div>0+281,019</div></div></div> <div>ESCALA 1%= 1,000 mm</div> <div>Izquierdo <div></div></div> <div>Derecho <div></div></div> |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |  |

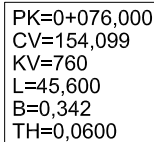
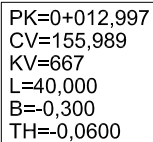
1.1.4 ENLACE ORONÓZ RAMAL ACELERACIÓN MARGEN IZQUIERDA





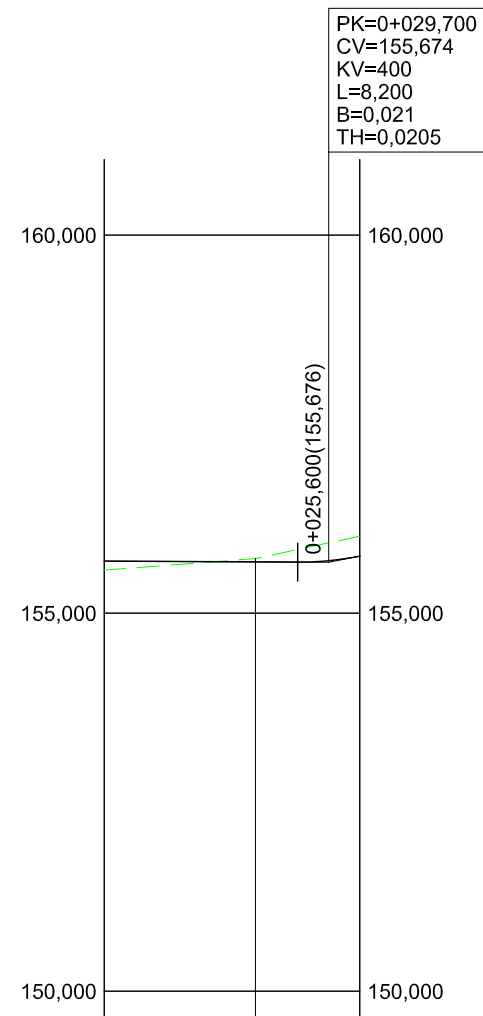


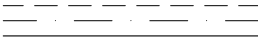
#### 1.1.4 ENLACE ORONÓZ RAMAL ACELERACIÓN MARGEN IZQUIERDA



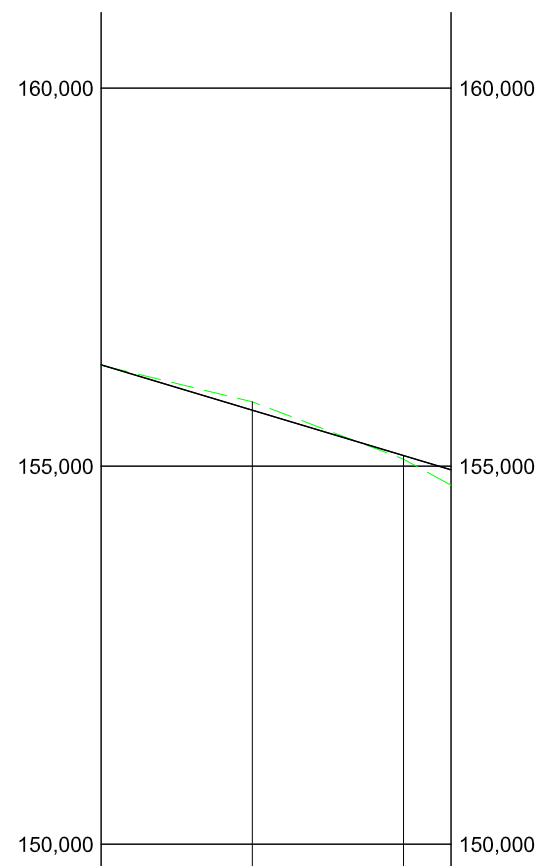
#### 1.1.5.1 ENLACE ORONZO-GLORIETA. GLORIETA





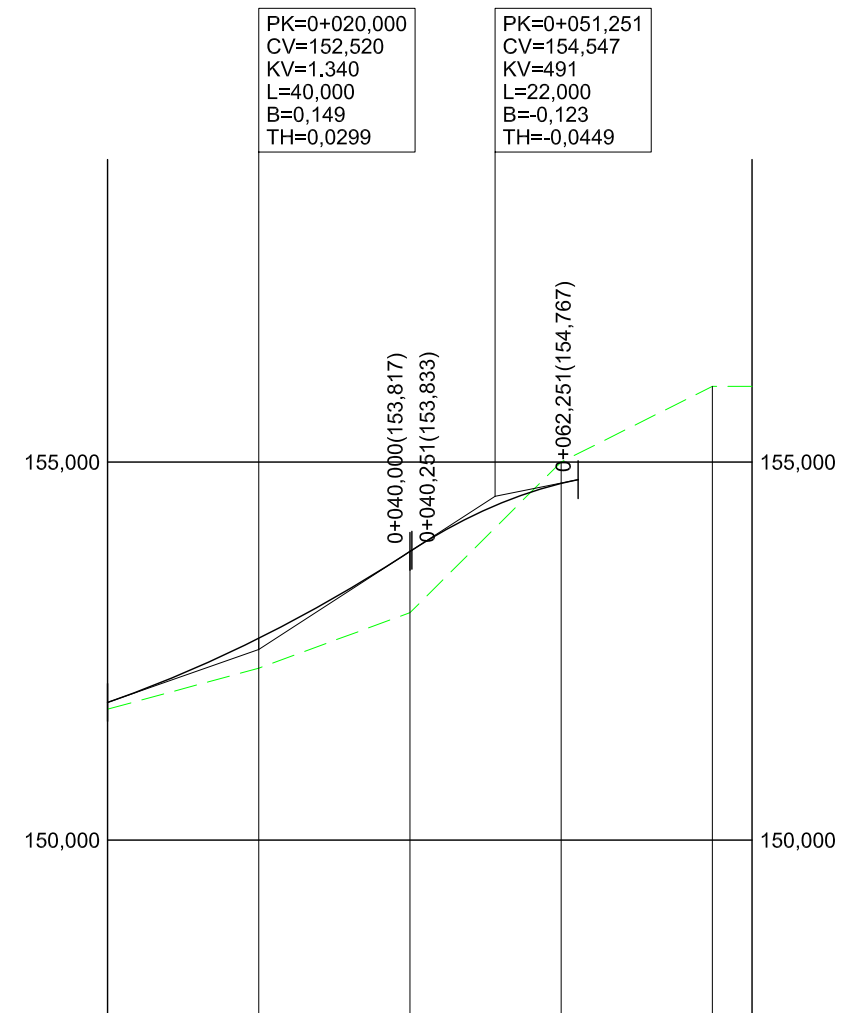
|                                                                                             |             |                                                                                                   |           |         |
|---------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------|-----------|---------|
| RAMPAS Y PENDIENTES                                                                         |             | -0,05%                                                                                            |           |         |
| COTAS                                                                                       | PROYECTADA  | 155,689                                                                                           | 155,679   | 155,756 |
|                                                                                             | ACTUAL      | 155,570                                                                                           | 155,722   | 156,018 |
|                                                                                             | DIFERENCIAS | 0,119                                                                                             | -0,043    | -0,262  |
| KILOMETRAJE                                                                                 |             | 0+000                                                                                             | 0+033,796 |         |
| DIAGRAMA DE CURVATURA<br><br>$C = 25,00/R \text{ (mm.)}$                                    |             | R=50,000<br> |           |         |
| DIAGRAMA DE PERALTES<br><br>ESCALA 1%= 1,000 mm<br><br>Izquierdo — — — — —<br>Derecho ————— |             | 2,00<br>     |           |         |

1.1.5.2A ENLACE ORONOS-GLORIA, N-121 B SALIDA



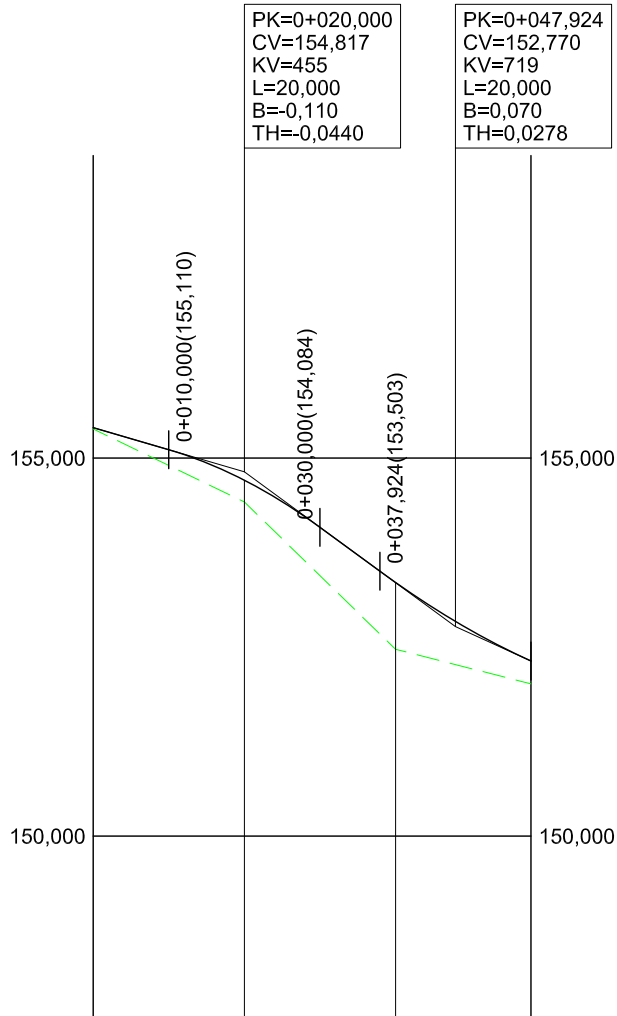
|                                                                                             |             |         |         |           |         |
|---------------------------------------------------------------------------------------------|-------------|---------|---------|-----------|---------|
| RAMPAS Y PENDIENTES                                                                         |             | -3,00%  |         |           |         |
| COTAS                                                                                       | PROYECTADA  | 156,342 | 155,742 | 155,142   | 154,953 |
|                                                                                             | ACTUAL      | 156,335 | 155,851 | 155,093   | 154,749 |
|                                                                                             | DIFERENCIAS | 0,007   | -0,109  | 0,049     | -0,204  |
| KILOMETRAJE                                                                                 |             | 0+000   |         | 0+046,298 |         |
| DIAGRAMA DE CURVATURA<br><br>$C = 25,00/R \text{ (mm.)}$                                    |             |         |         |           |         |
| DIAGRAMA DE PERALTES<br><br>ESCALA 1%= 1,000 mm<br><br>Izquierdo — — — — —<br>Derecho ————— |             |         |         |           |         |

1.1.5.2B ENLACE ORONOS-GLORIA, N-121 B ENTRADA



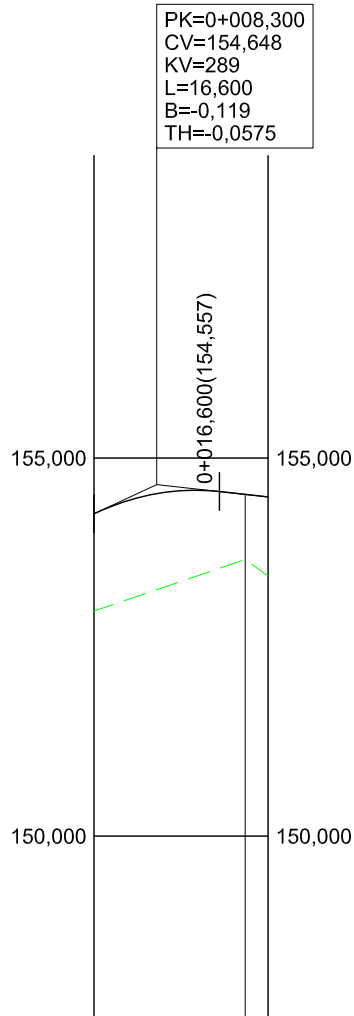
|                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RAMPAS Y PENDIENTES   |             | 6,49%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |         | 2,00%   |         |           |  |
| COTAS                 | PROYECTADA  | 151,820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 152,669 | 153,817 | 154,716 |         |         |           |  |
|                       | ACTUAL      | 151,730                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 152,273 | 153,007 | 155,000 | 156,000 | 156,000 |           |  |
|                       | DIFERENCIAS | 0,090                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0,396   | 0,810   | -0,284  |         |         |           |  |
| KILOMETRAJE           |             | 0+000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |         |         |         |         | 0+085,250 |  |
| DIAGRAMA DE CURVATURA |             | <div>RECTA</div> <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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|         |         |         |         |         |           |  |

### 1.1.5.3 ENLACE ORONÓZ-GLORIETA, ORONÓZ



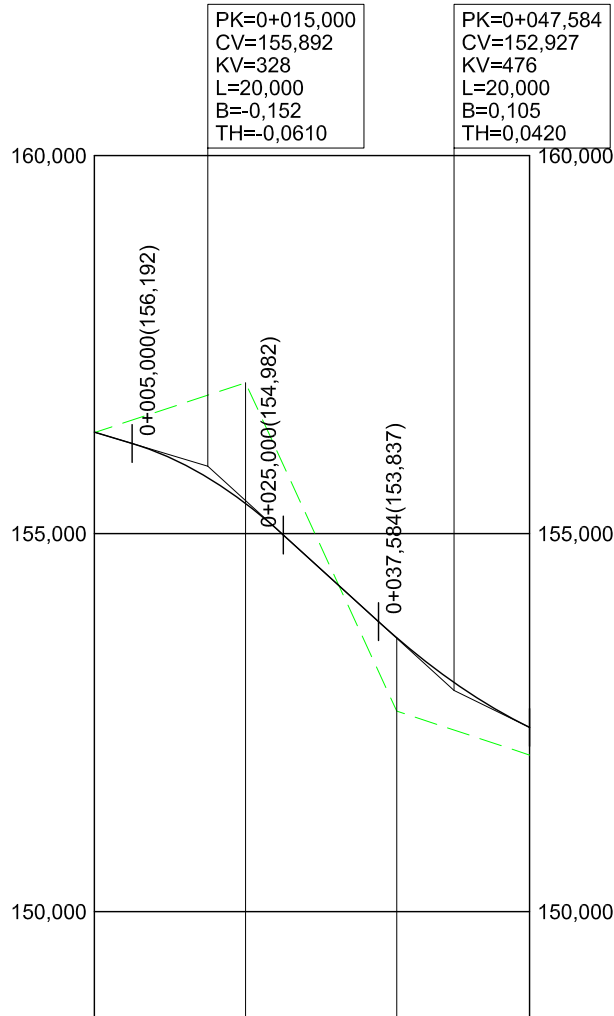
| RAMPAS Y PENDIENTES   |             | -2,93%      -7,33%   |         |         |         |
|-----------------------|-------------|----------------------|---------|---------|---------|
| COTAS                 | PROYECTADA  | 155,403              | 154,707 | 153,354 | 152,315 |
|                       | ACTUAL      | 155,384              | 154,418 | 152,470 | 152,013 |
|                       | DIFERENCIAS | 0,019                | 0,289   | 0,884   | 0,302   |
| KILOMETRAJE           |             | 0+000      0+057,923 |         |         |         |
| DIAGRAMA DE CURVATURA |             | R=50,000             |         |         |         |
| C = 25,00/R (mm.)     |             | -----                |         |         |         |
| DIAGRAMA DE PERALTES  |             | 2,00                 |         |         |         |
| ESCALA 1%= 1,000 mm   |             | -----                |         |         |         |
| Izquierdo -----       |             | -----                |         |         |         |
| Derecho -----         |             | -----                |         |         |         |

1.1.5.3A ENLACE ORONoz-GLORIETA. ORONoz SALIDA

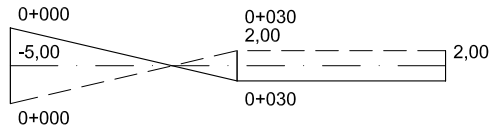


| RAMPAS Y PENDIENTES   |             | -1,11%               |                    |
|-----------------------|-------------|----------------------|--------------------|
| COTAS                 | PROYECTADA  | 154,263              | 154,519<br>154,486 |
|                       | ACTUAL      | 152,975              | 153,657<br>153,439 |
|                       | DIFERENCIAS | 1,288                | 0,862<br>1,047     |
| KILOMETRAJE           |             | 0+000      0+023,020 |                    |
| DIAGRAMA DE CURVATURA |             | R=30,000             |                    |
| C = 25,00/R (mm.)     |             | -----                |                    |
| DIAGRAMA DE PERALTES  |             | 2,00                 |                    |
| ESCALA 1%= 1,000 mm   |             | -----                |                    |
| Izquierdo -----       |             | -----                |                    |
| Derecho -----         |             | -----                |                    |

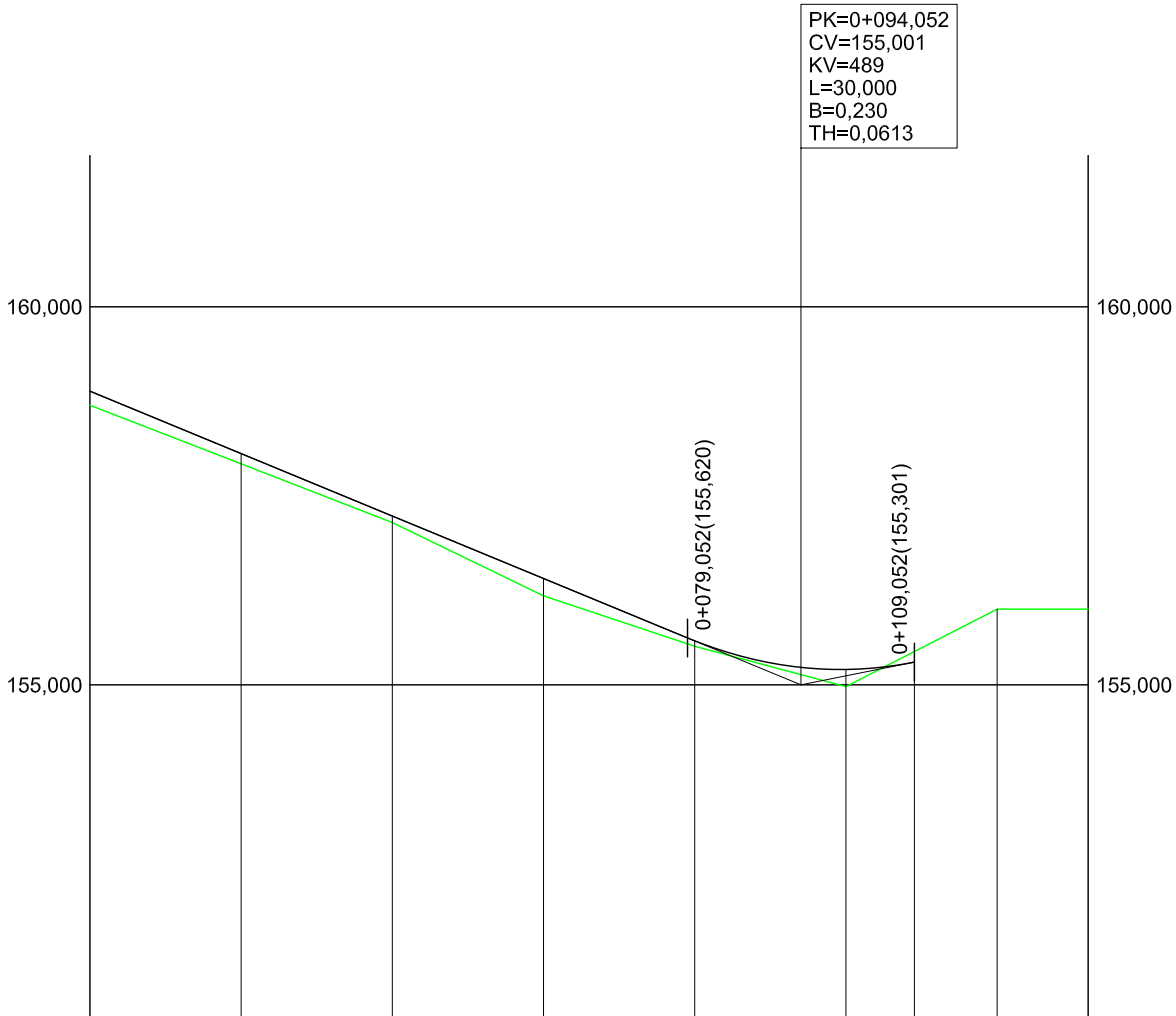
1.1.5.3B ENLACE ORONoz-GLORIETA. ORONoz ENTRADA



| RAMPAS Y PENDIENTES   |             | -3,00%      -9,10%                 |         |         |         |
|-----------------------|-------------|------------------------------------|---------|---------|---------|
| COTAS                 | PROYECTADA  | 156,342                            | 155,399 | 153,623 | 152,437 |
|                       | ACTUAL      | 156,336                            | 156,995 | 152,652 | 152,071 |
|                       | DIFERENCIAS | 0,006                              | -1,596  | 0,971   | 0,366   |
| KILOMETRAJE           |             | 0+000      R=22,000      0+057,583 |         |         |         |
| DIAGRAMA DE CURVATURA |             | -----                              |         |         |         |
| C = 25,00/R (mm.)     |             | -----                              |         |         |         |
| DIAGRAMA DE PERALTES  |             | 2,00                               |         |         |         |
| ESCALA 1%= 1,000 mm   |             | -----                              |         |         |         |
| Izquierdo -----       |             | -----                              |         |         |         |
| Derecho -----         |             | -----                              |         |         |         |

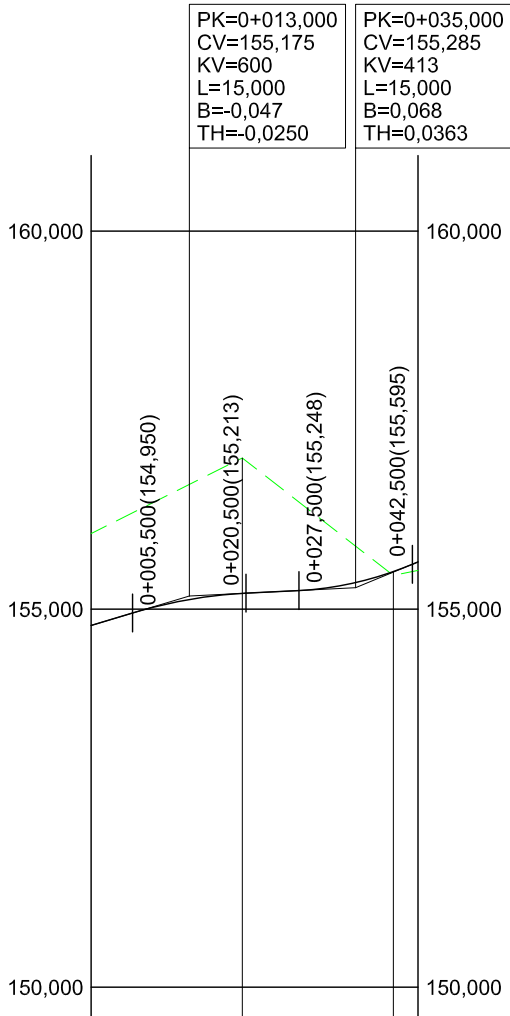


1.1.5.4 ENLACE ORONoz-GLORIETA. BYPASS N-121 B - ORONoz



| RAMPAS Y PENDIENTES   |             | -4,13%2,00%                                                                                                                                    |         |         |         |         |         |         |         |         |  |
|-----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| COTAS                 | PROYECTADA  | 158,885                                                                                                                                        | 158,059 | 157,233 | 156,407 | 155,582 | 155,203 | 155,301 |         |         |  |
|                       | ACTUAL      | 158,698                                                                                                                                        | 157,922 | 157,146 | 156,177 | 155,509 | 154,977 | 155,400 | 156,000 | 156,000 |  |
|                       | DIFERENCIAS | 0,187                                                                                                                                          | 0,137   | 0,087   | 0,230   | 0,073   | 0,226   | -0,099  |         |         |  |
| KILOMETRAJE           |             | 0+0000+1000+132,052                                                                                                                            |         |         |         |         |         |         |         |         |  |
| DIAGRAMA DE CURVATURA |             | <div>RECTA<div>RECTAR=-130,000</div></div>                                                                                                     |         |         |         |         |         |         |         |         |  |
| DIAGRAMA DE PERALTES  |             | <div>0+000-2,000+027,6930+048,9050+073,8160+093,8162,00</div> <div>ESCALA 1%= 1,000 mm</div> <div>Izquierdo-----</div> <div>Derecho-----</div> |         |         |         |         |         |         |         |         |  |

1.1.5.5 ENLACE ORONoz-GLORIETA. NA-1210

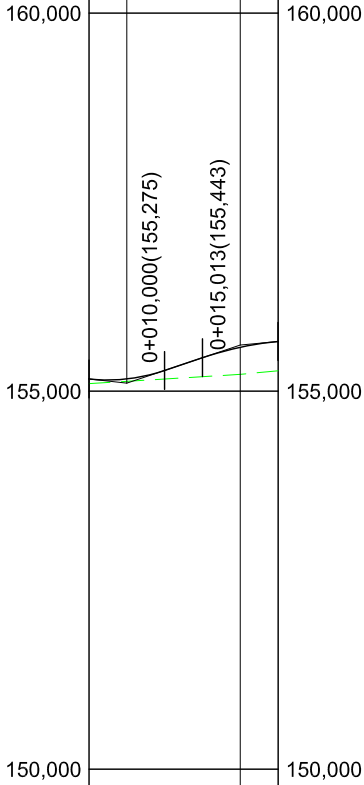


| RAMPAS Y PENDIENTES   |             | 3,00%                                                                                            | 0,50%   | 4,13%              |
|-----------------------|-------------|--------------------------------------------------------------------------------------------------|---------|--------------------|
| COTAS                 | PROYECTADA  | 154,785                                                                                          | 155,210 | 155,499<br>155,625 |
|                       | ACTUAL      | 156,000                                                                                          | 157,000 | 155,446<br>155,513 |
|                       | DIFERENCIAS | -1,215                                                                                           | -1,790  | 0,053<br>0,112     |
| KILOMETRAJE           |             | 0+0000+043,243                                                                                   |         |                    |
| DIAGRAMA DE CURVATURA |             | <div>R=50,000</div>                                                                              |         |                    |
| DIAGRAMA DE PERALTES  |             | <div>ESCALA 1%= 1,000 mm</div> <div>Izquierdo-----</div> <div>Derecho-----</div> <div>2,00</div> |         |                    |

1.1.5.5A ENLACE ORONoz-GLORIETA. NA-1210 SALIDA

PK=0+005,000  
CV=155,107  
KV=224  
L=10,000  
B=0,056  
TH=0,0446

PK=0+020,013  
CV=155,611  
KV=414  
L=10,000  
B=-0,030  
TH=-0,0241

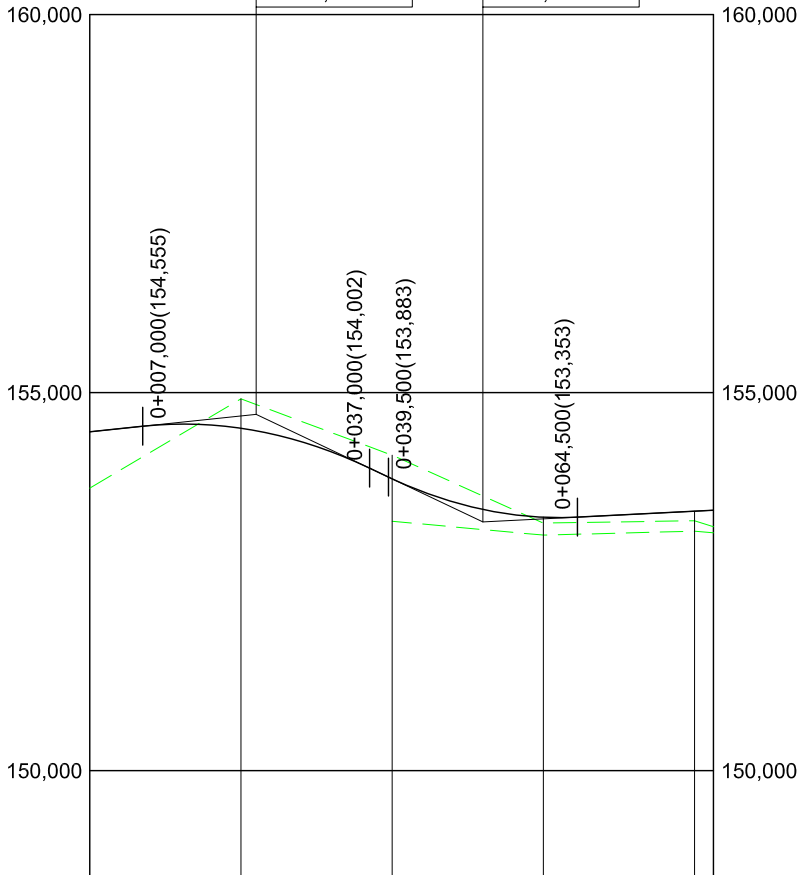


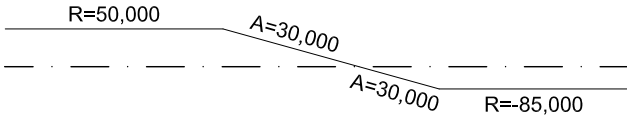
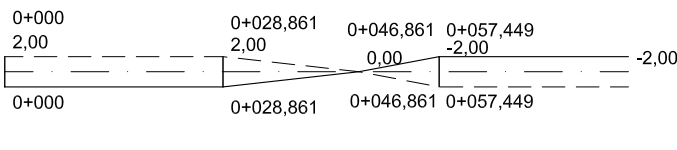
| RAMPAS Y PENDIENTES   |             | 3,36%    | 0,94%              |
|-----------------------|-------------|----------|--------------------|
| COTAS                 | PROYECTADA  | 155,162  | 155,581<br>155,659 |
|                       | ACTUAL      | 155,100  | 155,222<br>155,270 |
|                       | DIFERENCIAS | 0,062    | 0,359<br>0,389     |
| KILOMETRAJE           |             | 0+000    | 0+025,013          |
| DIAGRAMA DE CURVATURA |             | R=30,000 |                    |
| C = 25,00/R (mm.)     |             | -----    |                    |
| DIAGRAMA DE PERALTES  |             | -----    |                    |
| ESCALA 1%= 1,000 mm   |             | -----    |                    |
| Izquierdo -----       |             |          |                    |
| Derecho -----         |             |          |                    |

1.1.5.5B ENLACE ORONoz-GLORIETA, NA-1210 ENTRADA

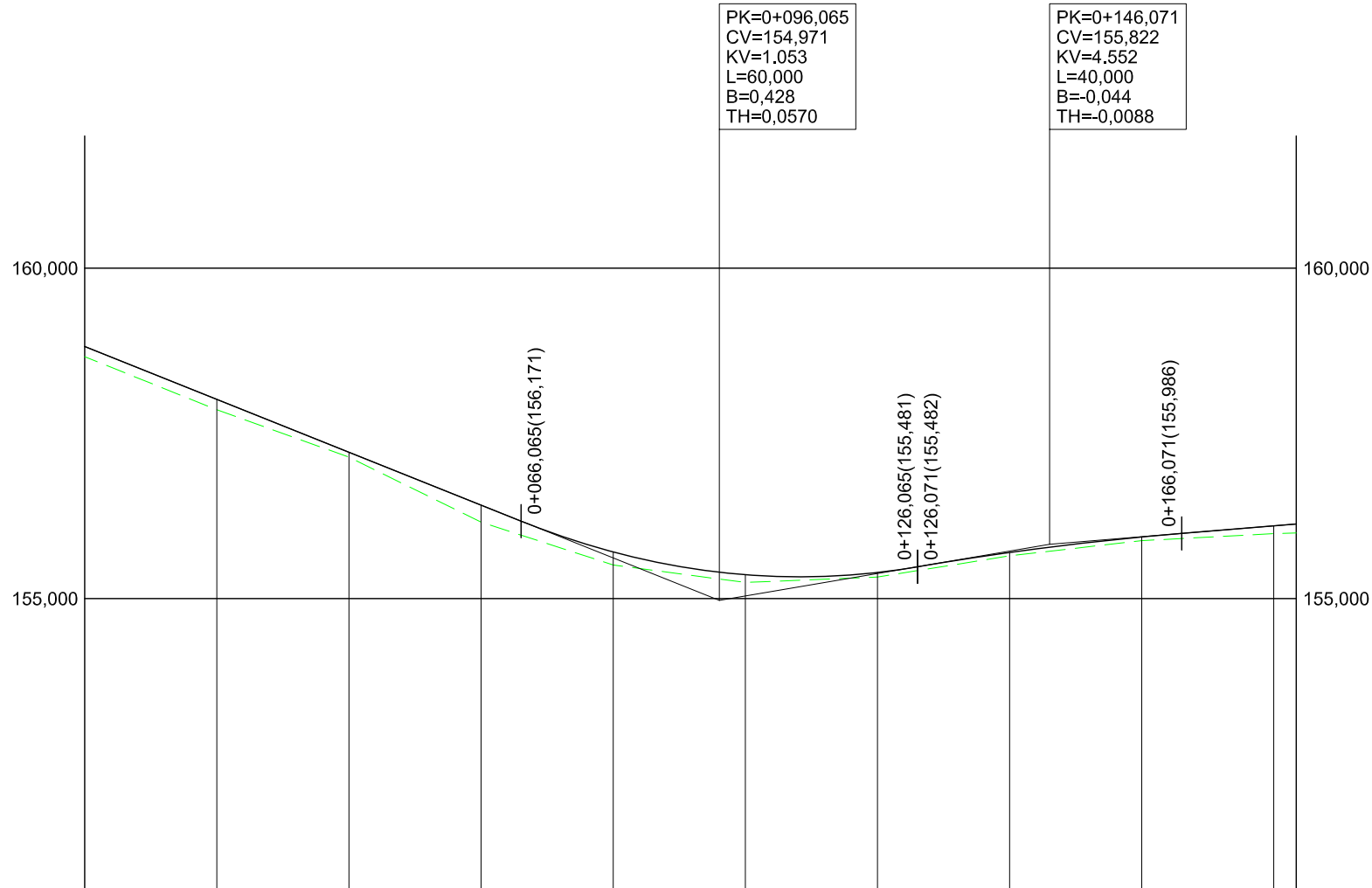
PK=0+022,000  
CV=154,713  
KV=518  
L=30,000  
B=-0,217  
TH=-0,0579

PK=0+052,000  
CV=153,291  
KV=477  
L=25,000  
B=0,164  
TH=0,0524



| RAMPAS Y PENDIENTES   |             | 1,05%                                                                                 |         | -4,74%    |         | 0,50%   |         |
|-----------------------|-------------|---------------------------------------------------------------------------------------|---------|-----------|---------|---------|---------|
| COTAS                 | PROYECTADA  | 154,482                                                                               | 154,529 | 153,860   | 153,352 | 153,431 | 153,443 |
|                       | ACTUAL      | 153,737                                                                               | 154,917 | 154,172   | 153,274 | 153,305 | 153,226 |
|                       | DIFERENCIAS | 0,745                                                                                 | -0,388  | -0,312    | 0,078   | 0,126   | 0,217   |
| KILOMETRAJE           |             | 0+000                                                                                 |         | 0+082,490 |         |         |         |
| DIAGRAMA DE CURVATURA |             |  |         |           |         |         |         |
| DIAGRAMA DE PERALTES  |             |  |         |           |         |         |         |

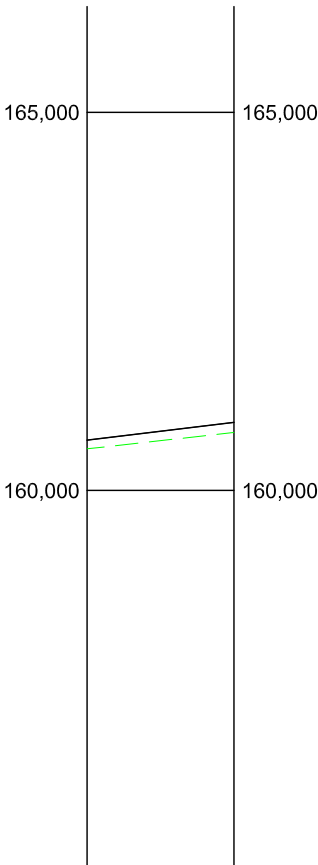
1.1.5.6 ENLACE ORONoz-GLORIETA, GLORIETA - RAMAL 4

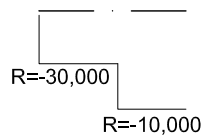
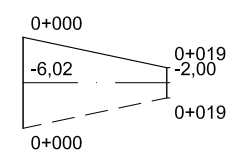


| RAMPAS Y PENDIENTES   |             | -4,00%1,70%0,82%                                 |         |         |         |         |         |         |         |         |         |
|-----------------------|-------------|--------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| COTAS                 | PROYECTADA  | 158,814                                          | 158,014 | 157,214 | 156,414 | 155,706 | 155,361 | 155,396 | 155,697 | 155,932 | 156,100 |
|                       | ACTUAL      | 158,660                                          | 157,857 | 157,139 | 156,156 | 155,508 | 155,243 | 155,325 | 155,646 | 155,876 | 155,982 |
|                       | DIFERENCIAS | 0,154                                            | 0,157   | 0,075   | 0,258   | 0,198   | 0,118   | 0,071   | 0,051   | 0,056   | 0,118   |
| KILOMETRAJE           |             | 0+0000+1000+183,389                              |         |         |         |         |         |         |         |         |         |
| DIAGRAMA DE CURVATURA |             | RECTA R=85,000 R=251,000                         |         |         |         |         |         |         |         |         |         |
| DIAGRAMA DE PERALTES  |             | ESCALA 1%= 1,000 mm<br>Izquierdo --- Derecho --- |         |         |         |         |         |         |         |         |         |

1.1.5.7 ENLACE ORONÓZ-GLORIETA. BYPASS N-1210 - N-121 B





|                       |             |                                                                                       |           |
|-----------------------|-------------|---------------------------------------------------------------------------------------|-----------|
| RAMPAS Y PENDIENTES   |             | 1,20%                                                                                 |           |
| COTAS                 | PROYECTADA  | 160,666                                                                               | 160,900   |
|                       | ACTUAL      | 160,550                                                                               | 160,767   |
|                       | DIFERENCIAS | 0,116                                                                                 | 0,133     |
| KILOMETRAJE           |             | 0+000                                                                                 | 0+019,440 |
| DIAGRAMA DE CURVATURA |             |  |           |
| DIAGRAMA DE PERALTES  |             |  |           |

1.1.6 ENLACE ORONÓZ. RAMAL DECELERACIÓN MARGEN IZQUIERDA N-1210