

PLANOS

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1.4.2_Red de Aguas Pluviales

1.5_Perfiles Longitudinales Conexiones Exteriores

1.5.1-Red de Aguas Fecales

1.5.2-Red de Aguas Pluviales

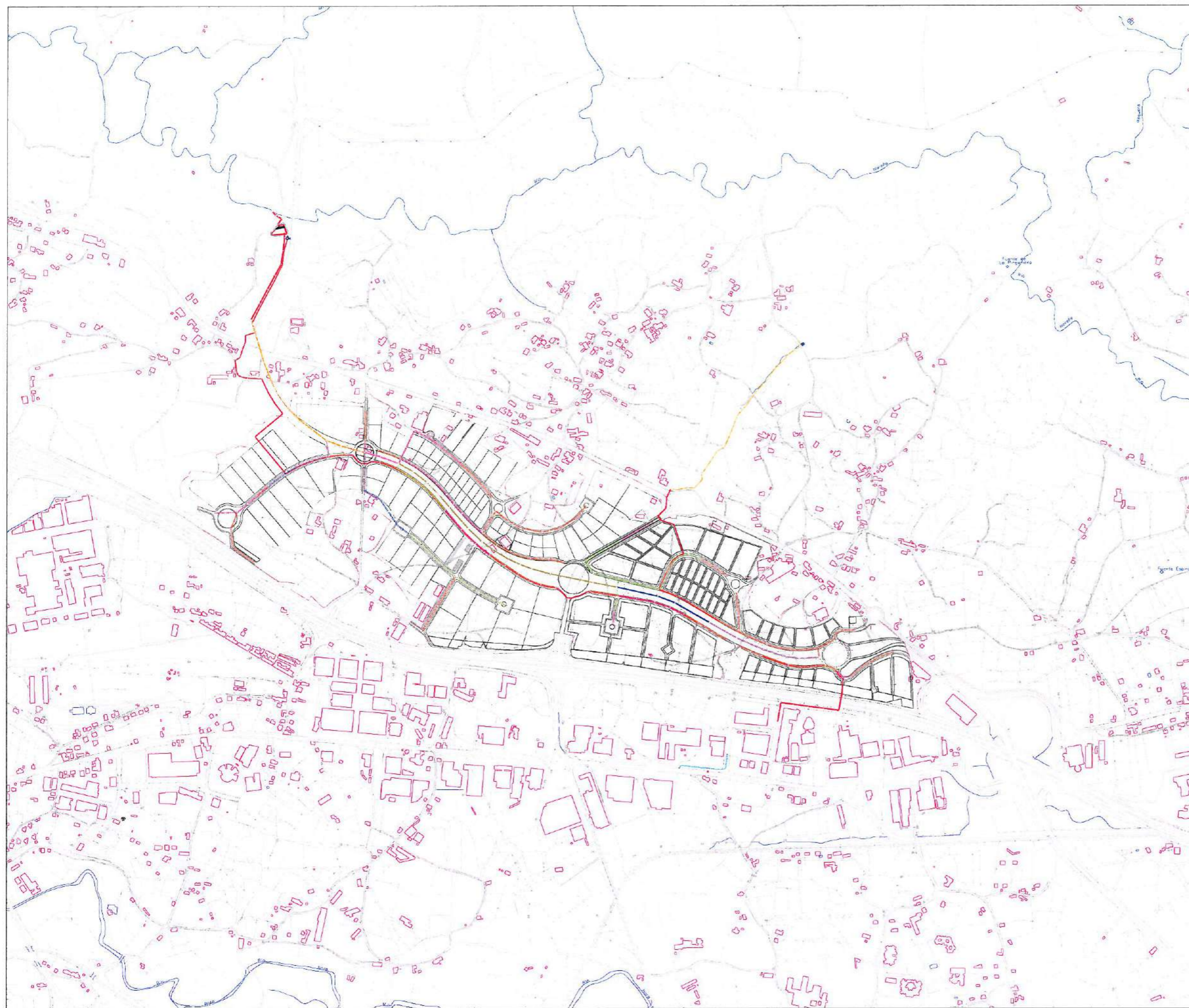
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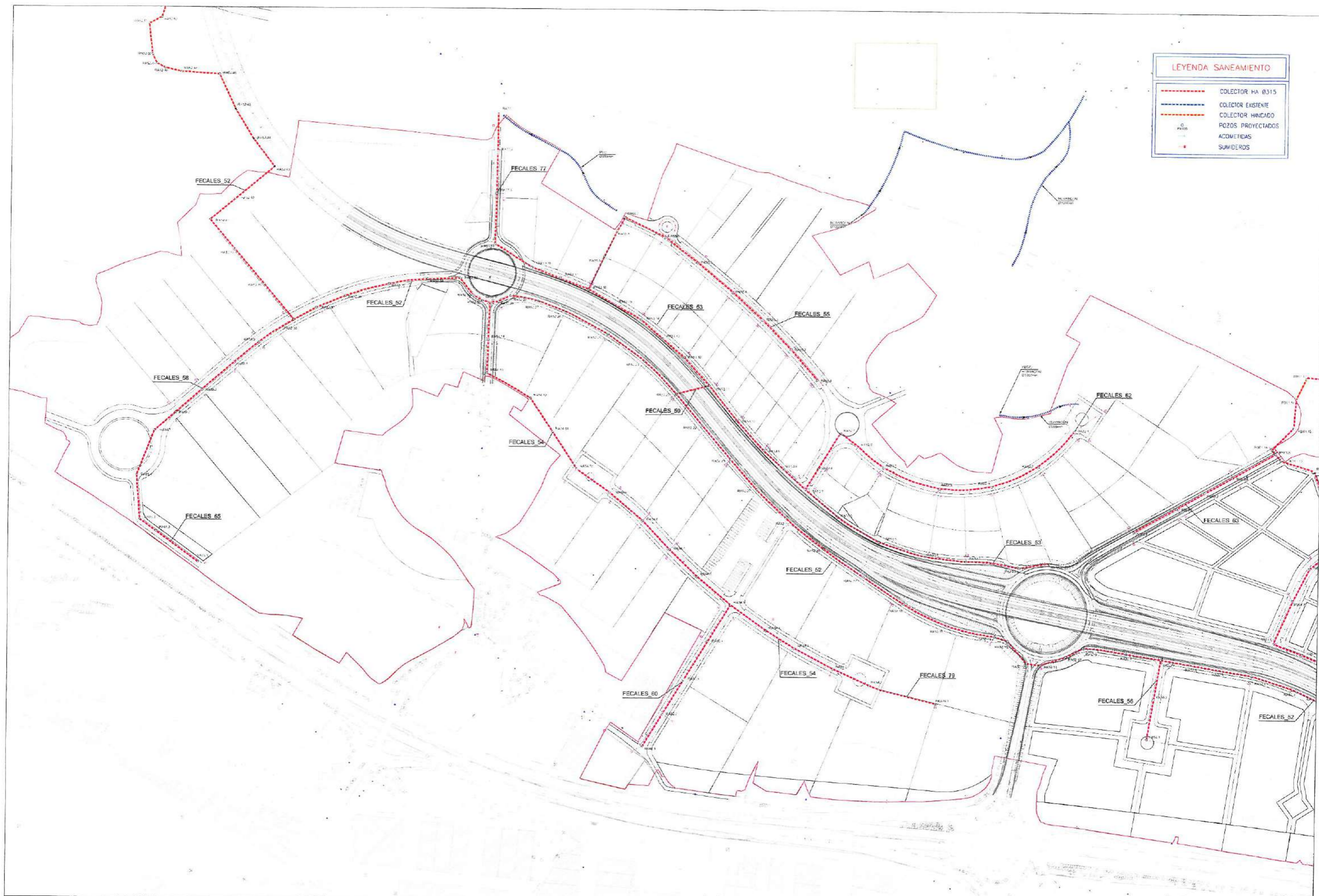
1.8_Balsa Decantación Red A

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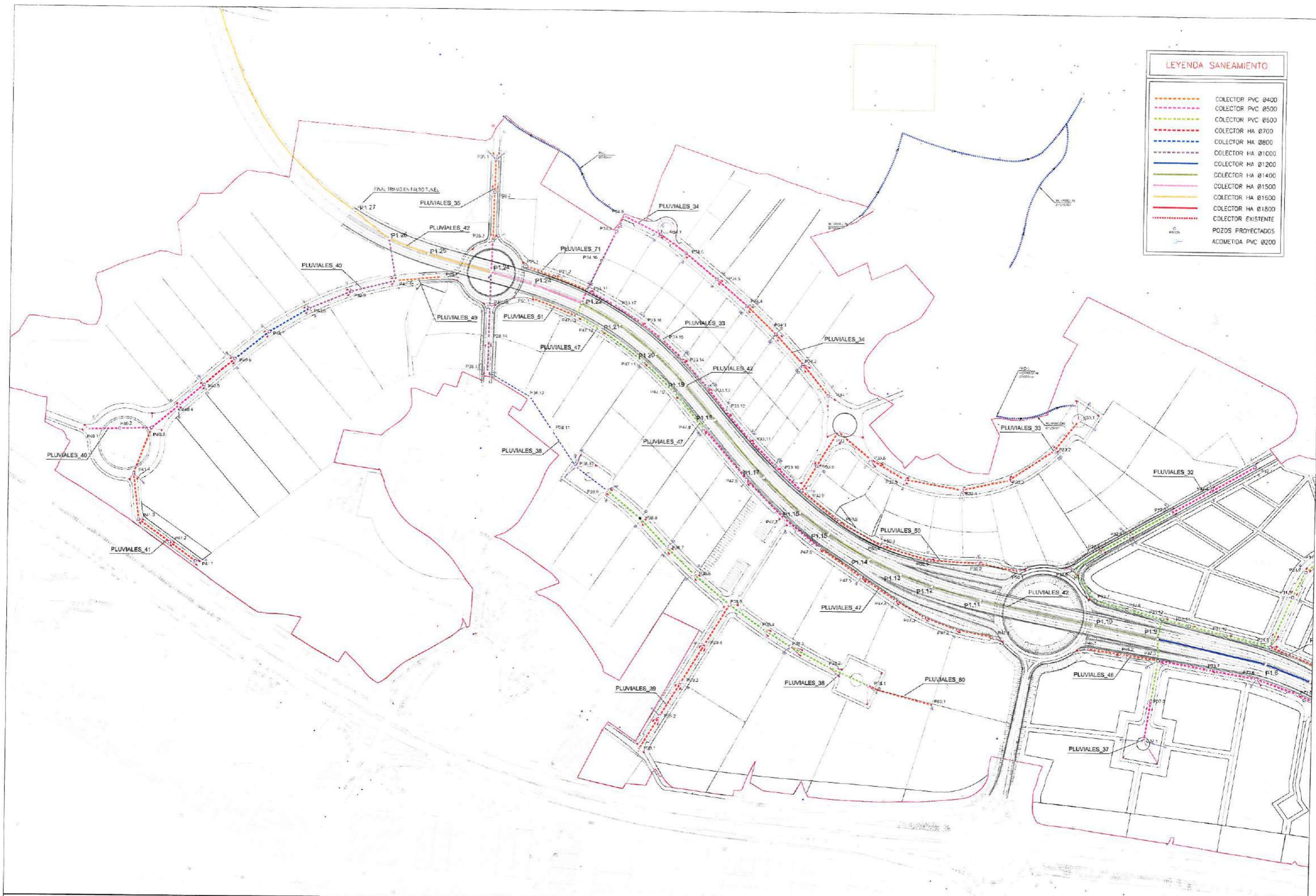


| LEYENDA SANEAMIENTO | |
|---|-------------------|
| --- | COLECTOR PVC Ø400 |
| --- | COLECTOR PVC Ø500 |
| --- | COLECTOR PVC Ø600 |
| --- | COLECTOR HA Ø700 |
| --- | COLECTOR HA Ø800 |
| --- | COLECTOR HA Ø1000 |
| --- | COLECTOR HA Ø1200 |
| --- | COLECTOR HA Ø1400 |
| --- | COLECTOR HA Ø1500 |
| --- | COLECTOR PVC 315 |

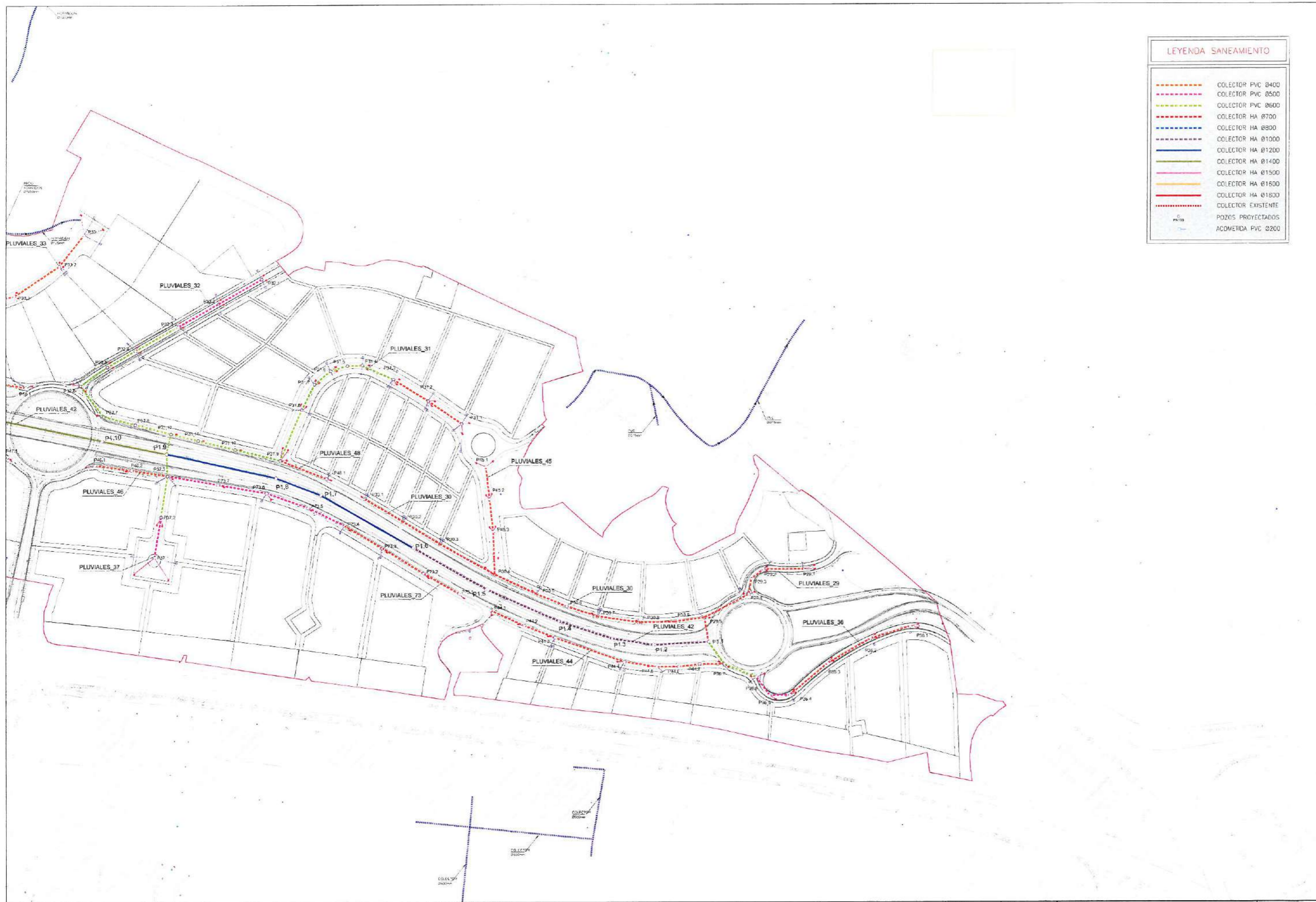




| LEYENDA SANEAMIENTO | |
|---|--------------------|
| --- | COLECTOR HA Ø315 |
| --- | COLECTOR EXISTENTE |
| --- | COLECTOR HINCADO |
| ● | POZOS PROYECTADOS |
| ● | ACOMETIDAS |
| — | SUMIDEROS |



| LEYENDA SANEAMIENTO | |
|---------------------|--------------------|
| | COLECTOR PVC Ø400 |
| | COLECTOR PVC Ø500 |
| | COLECTOR PVC Ø600 |
| | COLECTOR HA Ø700 |
| | COLECTOR HA Ø800 |
| | COLECTOR HA Ø1000 |
| | COLECTOR HA Ø1200 |
| | COLECTOR HA Ø1400 |
| | COLECTOR HA Ø1500 |
| | COLECTOR HA Ø1600 |
| | COLECTOR HA Ø1800 |
| | COLECTOR EXISTENTE |
| | POZOS PROYECTADOS |
| | ACOMETIDA PVC Ø200 |

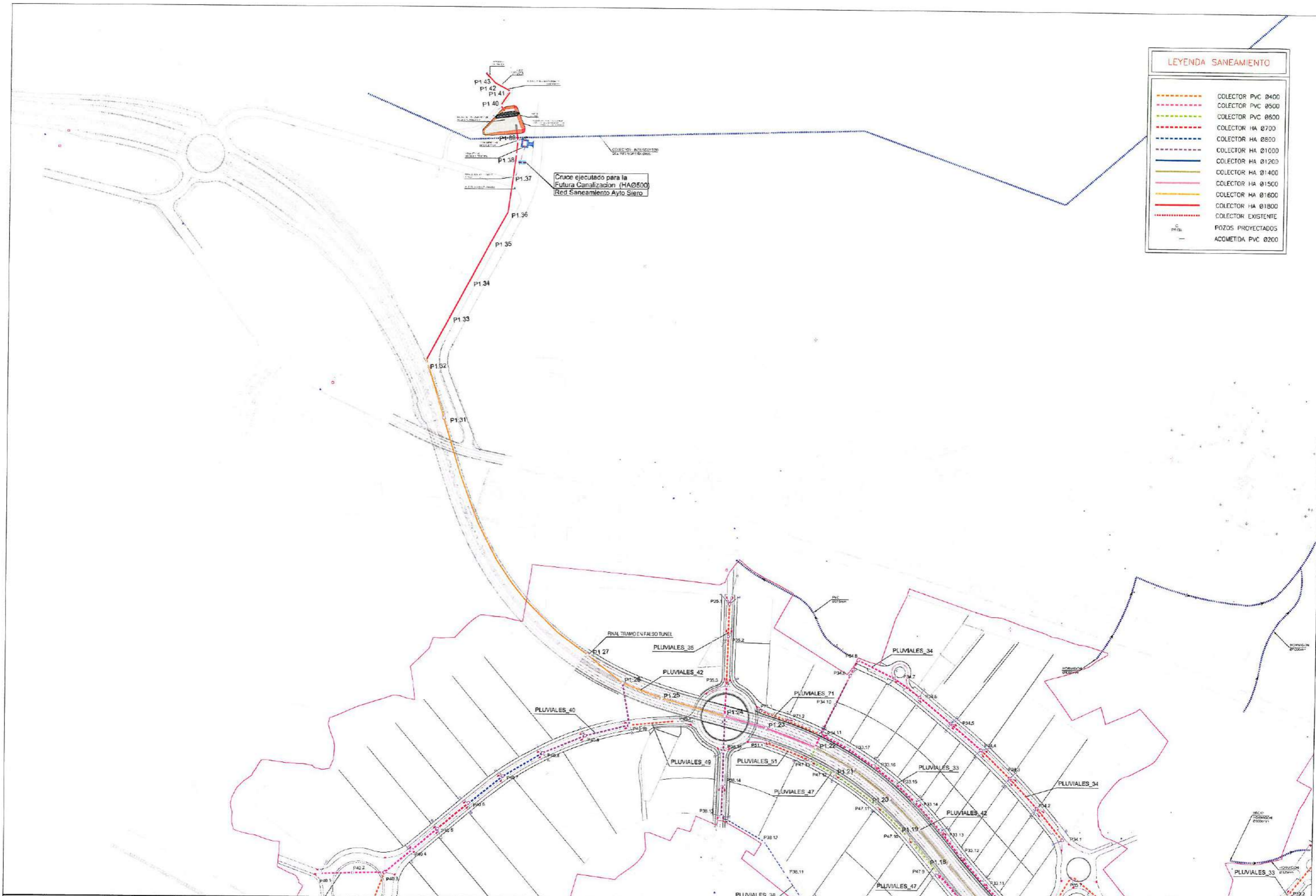


| LEYENDA SANEAMIENTO | |
|---------------------|--------------------|
| --- | COLECTOR PVC Ø400 |
| --- | COLECTOR PVC Ø500 |
| --- | COLECTOR PVC Ø600 |
| --- | COLECTOR HA Ø700 |
| --- | COLECTOR HA Ø800 |
| --- | COLECTOR HA Ø1000 |
| --- | COLECTOR HA Ø1200 |
| --- | COLECTOR HA Ø1400 |
| --- | COLECTOR HA Ø1500 |
| --- | COLECTOR HA Ø1600 |
| --- | COLECTOR HA Ø1800 |
| --- | COLECTOR EXISTENTE |
| ○ | POZOS PROYECTADOS |
| ○ | ACOMETIDA PVC Ø200 |

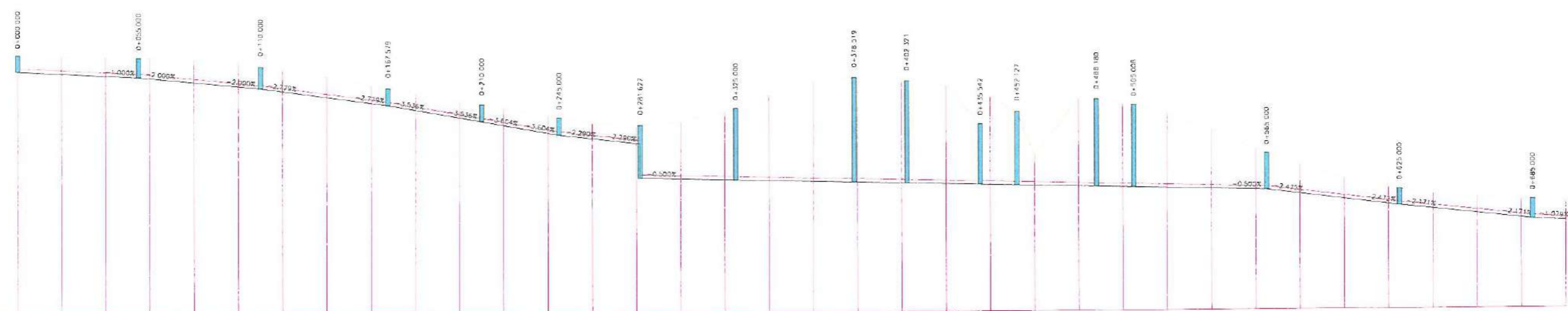




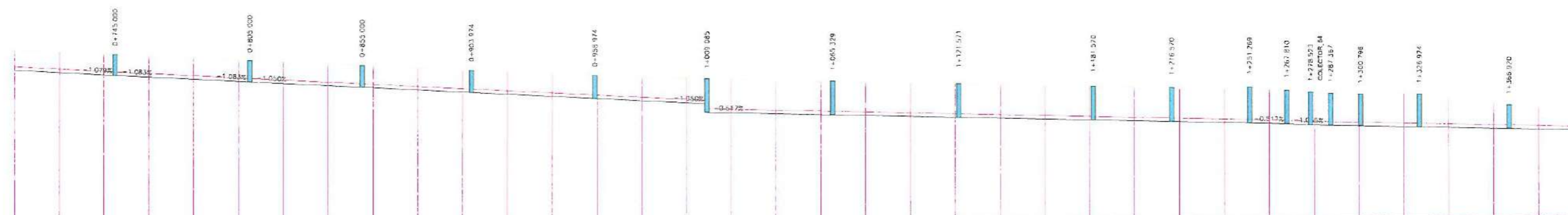
| LEYENDA SANEAMIENTO | |
|--|-----------------------|
| ---- | COLECTOR PVC Ø315 |
| ---- | COLECTOR HA Ø800 |
| ---- | COLECTOR HINCADO Ø315 |
| ---- | COLECTOR EXISTENTE |
| ● | POZOS PROYECTADOS |
| ○ | ACOMETIDAS |
| + | SUMIDORES |

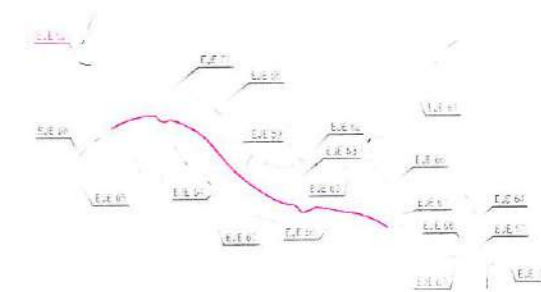


| LEYENDA SANEAMIENTO | |
|---------------------|--------------------|
| | COLECTOR PVC Ø400 |
| | COLECTOR PVC Ø500 |
| | COLECTOR PVC Ø600 |
| | COLECTOR HA Ø700 |
| | COLECTOR HA Ø800 |
| | COLECTOR HA Ø1000 |
| | COLECTOR HA Ø1200 |
| | COLECTOR HA Ø1400 |
| | COLECTOR HA Ø1500 |
| | COLECTOR HA Ø1600 |
| | COLECTOR HA Ø1800 |
| | COLECTOR EXISTENTE |
| | POZOS PROYECTADOS |
| | ACOMETIDA PVC Ø200 |



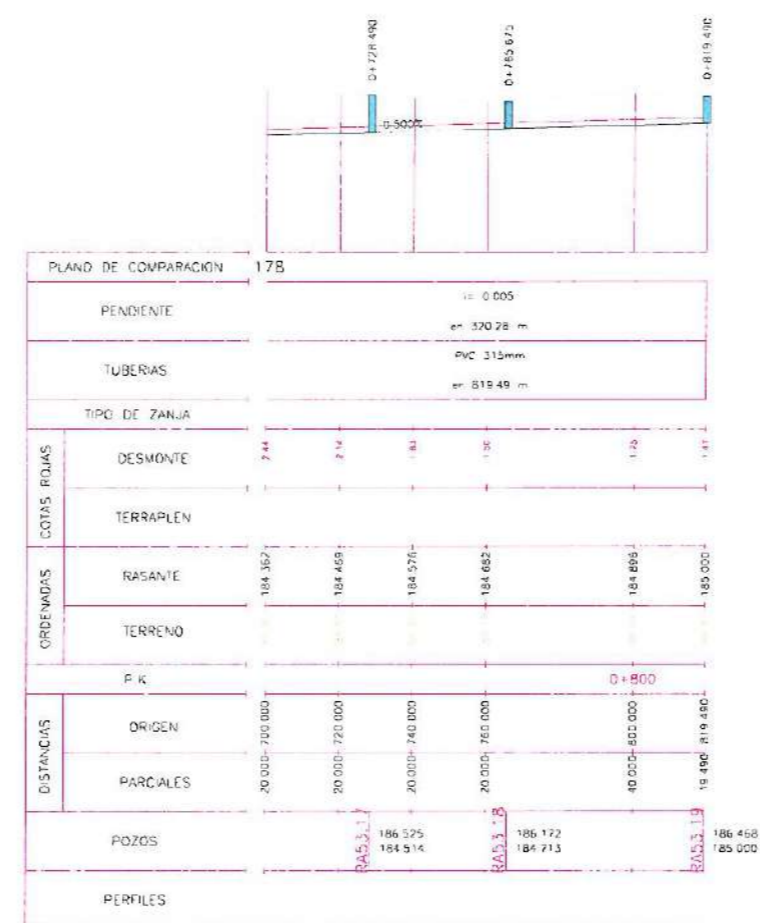
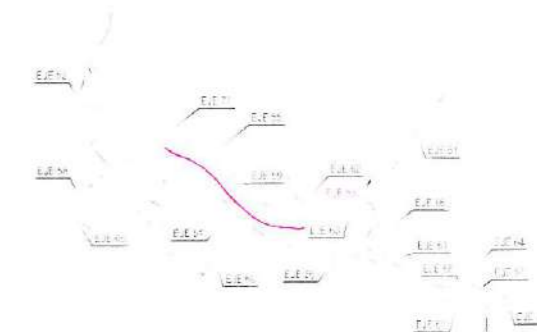
EJE 52
COLECTOR 52 FECALES

EJE 52
COLECTOR 52 FECALES

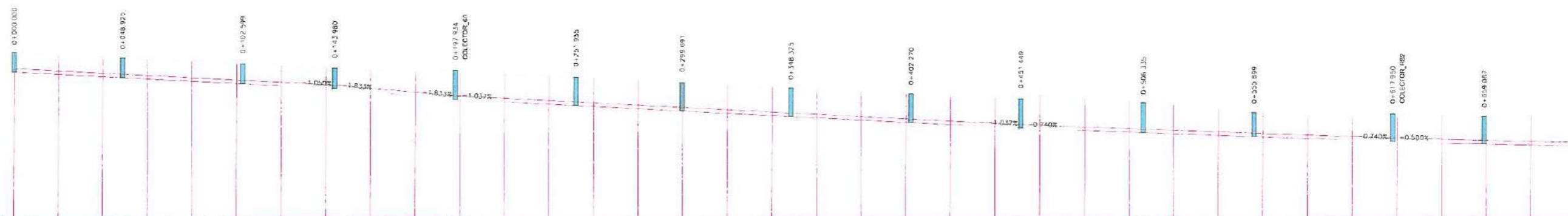


| | | |
|--------------------------|-----------------------------|---|
| PLANO DE COMPARACION 174 | | |
| PENDIENTE | $i = -0.000$ en 226.35 m | |
| TUBERIAS | PVC 215mm en 1557.75 m | |
| TIPO DE ZANJA | | |
| ORDENADAS | COBAS ROJAS | 1.44 1.43 1.37 1.18 1.10 1.10 1.15 1.26 1.44 |
| | TERRAPLEN | |
| ORDENADAS | RASANTE | 181.795 181.603 181.593 181.493 181.393 181.293 181.193 181.093 181.004 |
| | TERRENO | 181.795 181.603 181.593 181.493 181.393 181.293 181.193 181.093 181.004 |
| DISTANCIAS | P.K. | 1+400 |
| | ORIGEN | 20.000-400.000 |
| DISTANCIAS | PARCIALES | 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 17.758 |
| | POZOS | 182.523 182.201 181.719 182.512 182.569 181.443 182.512 182.576 181.247 182.442 181.004 |
| PERFILES | | |

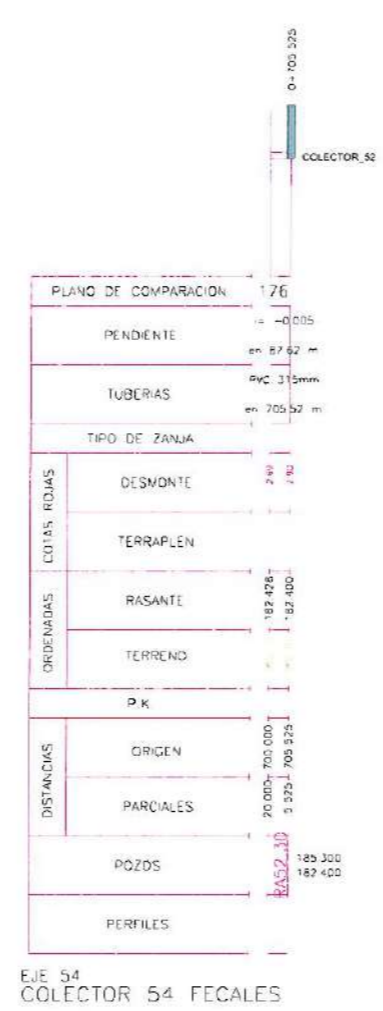
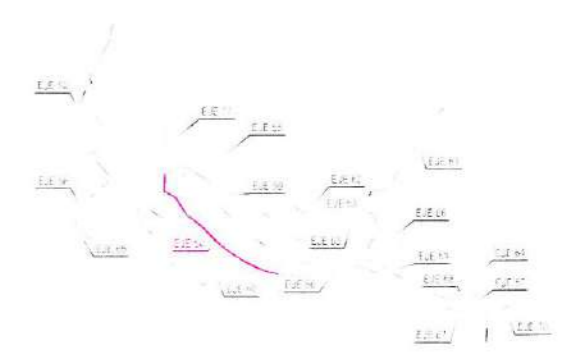
EJE 52
COLECTOR 52 FECALES

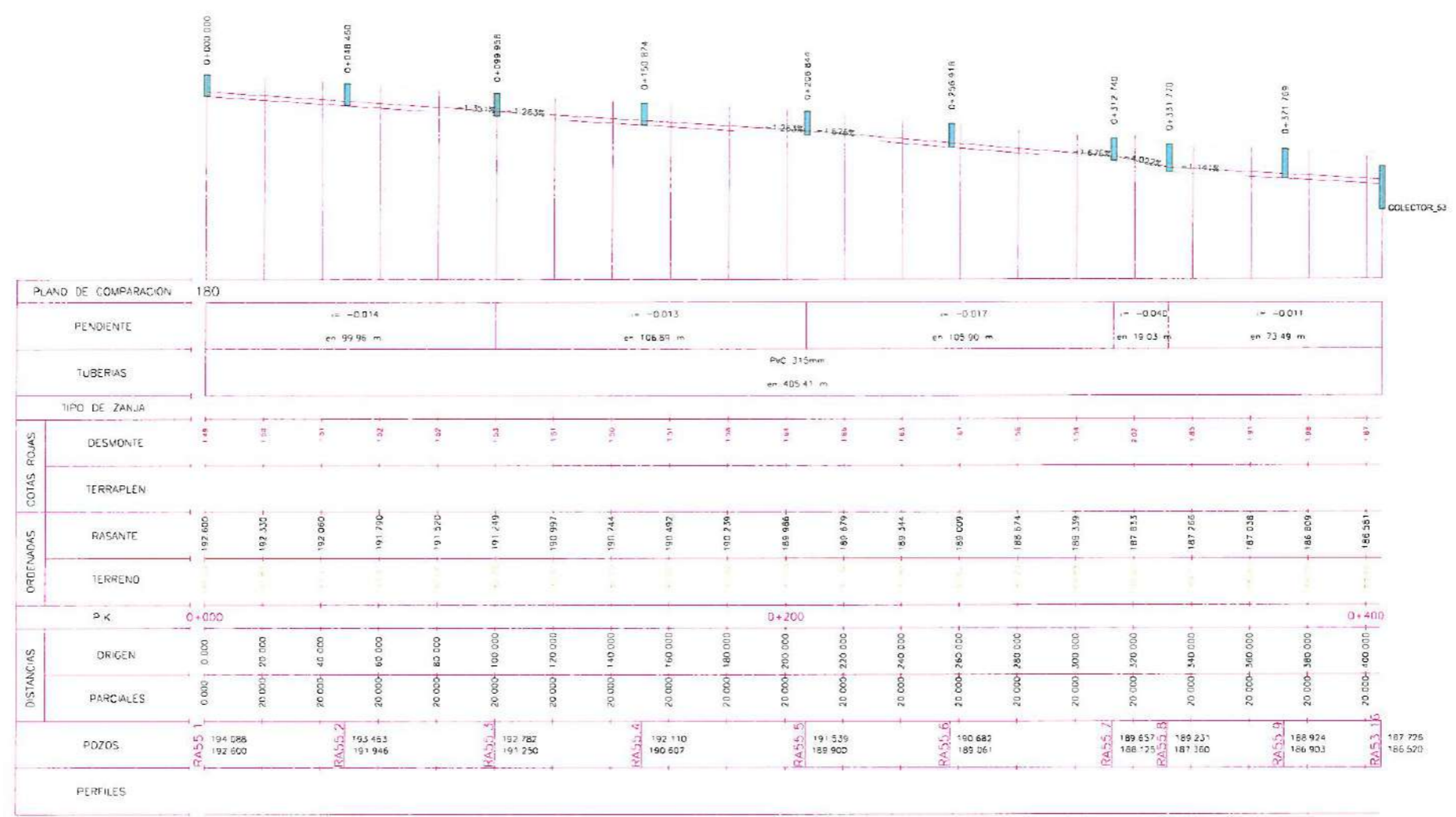
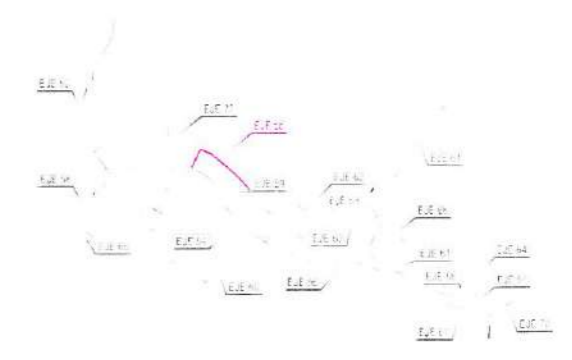


EJE 53
COLECTOR 53 FECALES

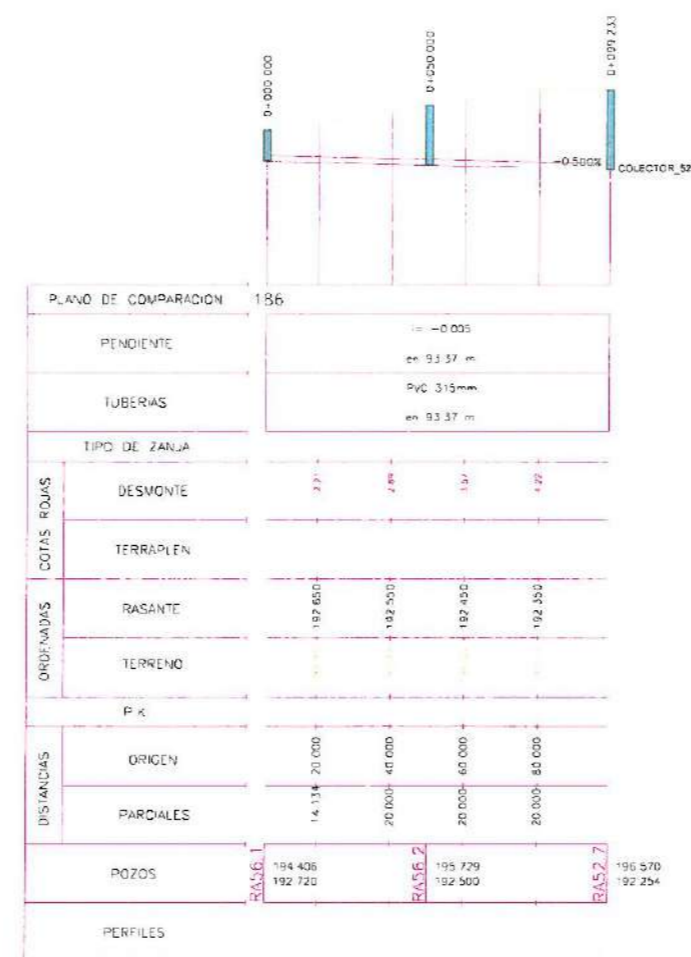
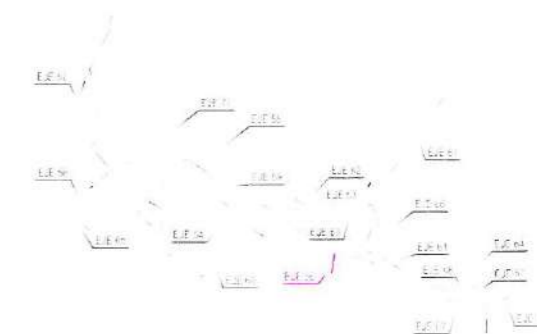


EJE 54
COLECTOR 54 FECALES

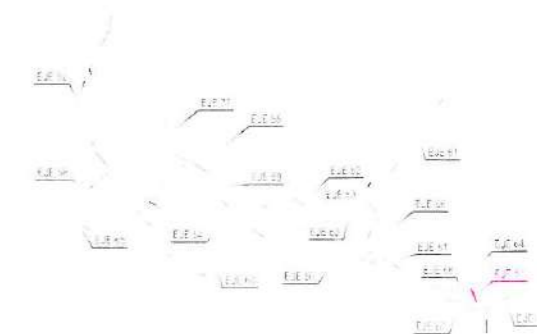




EJE 55
COLECTOR 55 FECALES

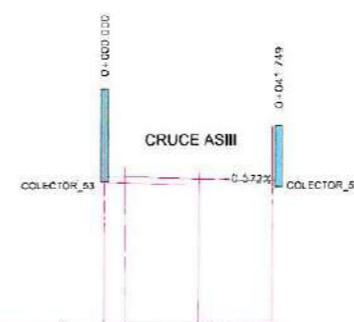


EJE 56
COLECTOR 56. FECALES



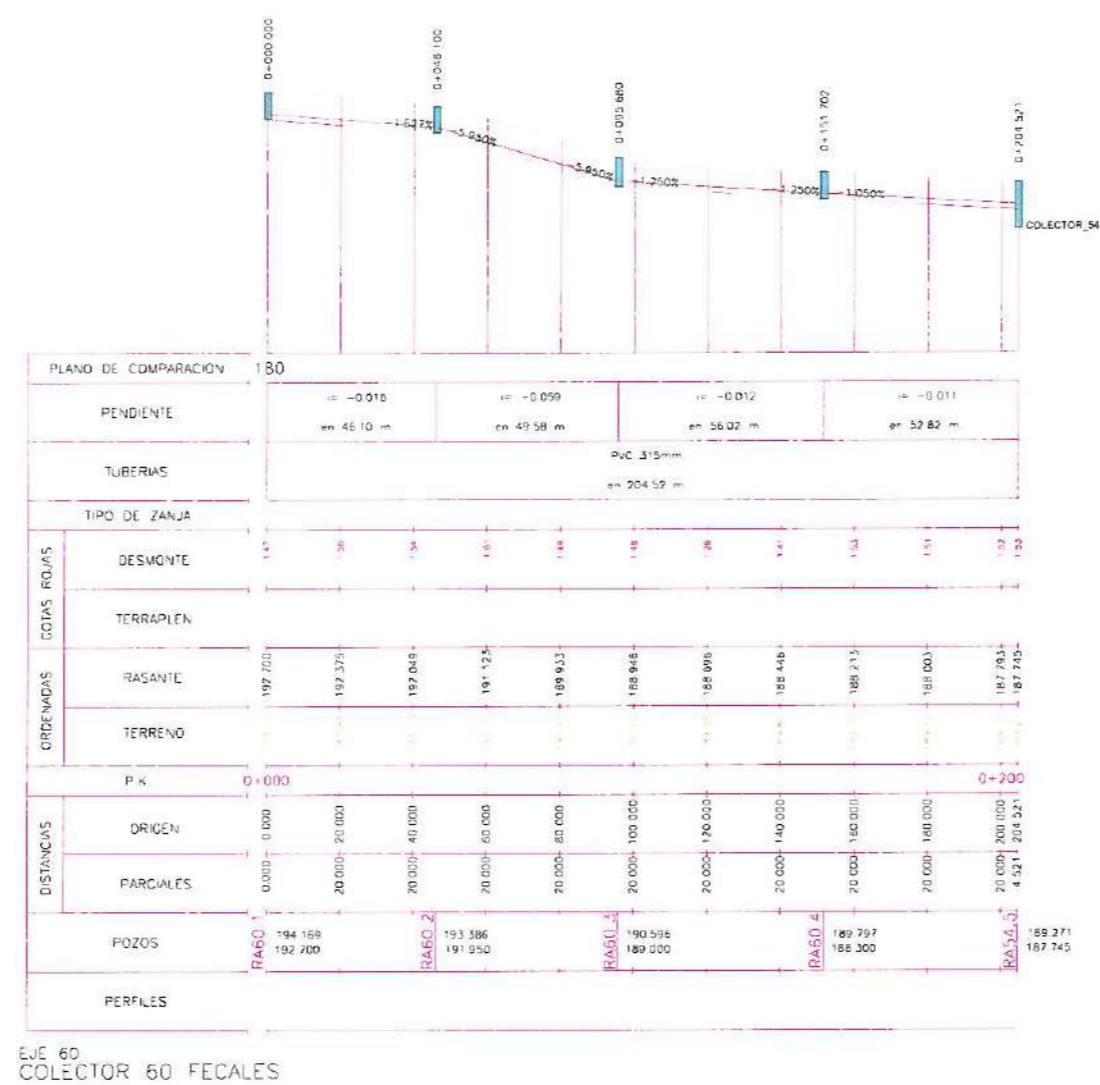
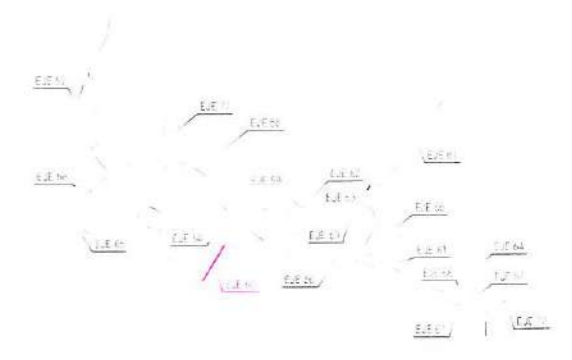
| | | |
|----------------------|------------|-----------------|
| PLANO DE COMPARACION | | 188 |
| PENDIENTE | -0.005 | |
| TUBERIAS | PVC 315mm | |
| TIPO DE ZANJA | en 65.57 m | |
| COTAS ROJAS | DESMONTE | 195.620 |
| | TERRAPLEN | 195.620 |
| ORDENADAS | RASANTE | 195.620 |
| | TERRENO | 195.620 |
| DISTANCIAS | P.K. | 0+000 |
| | ORIGEN | 0+000 |
| POZOS | PARCIALES | 0+000 - 20+000 |
| | PERFILES | 20+000 - 40+000 |
| POZOS | RC 64 | 197.669 |
| | RC 67 | 195.620 |
| POZOS | RC 67 | 197.202 |
| | RC 67 | 195.457 |
| POZOS | RC 67 | 195.887 |
| | RC 67 | 195.292 |

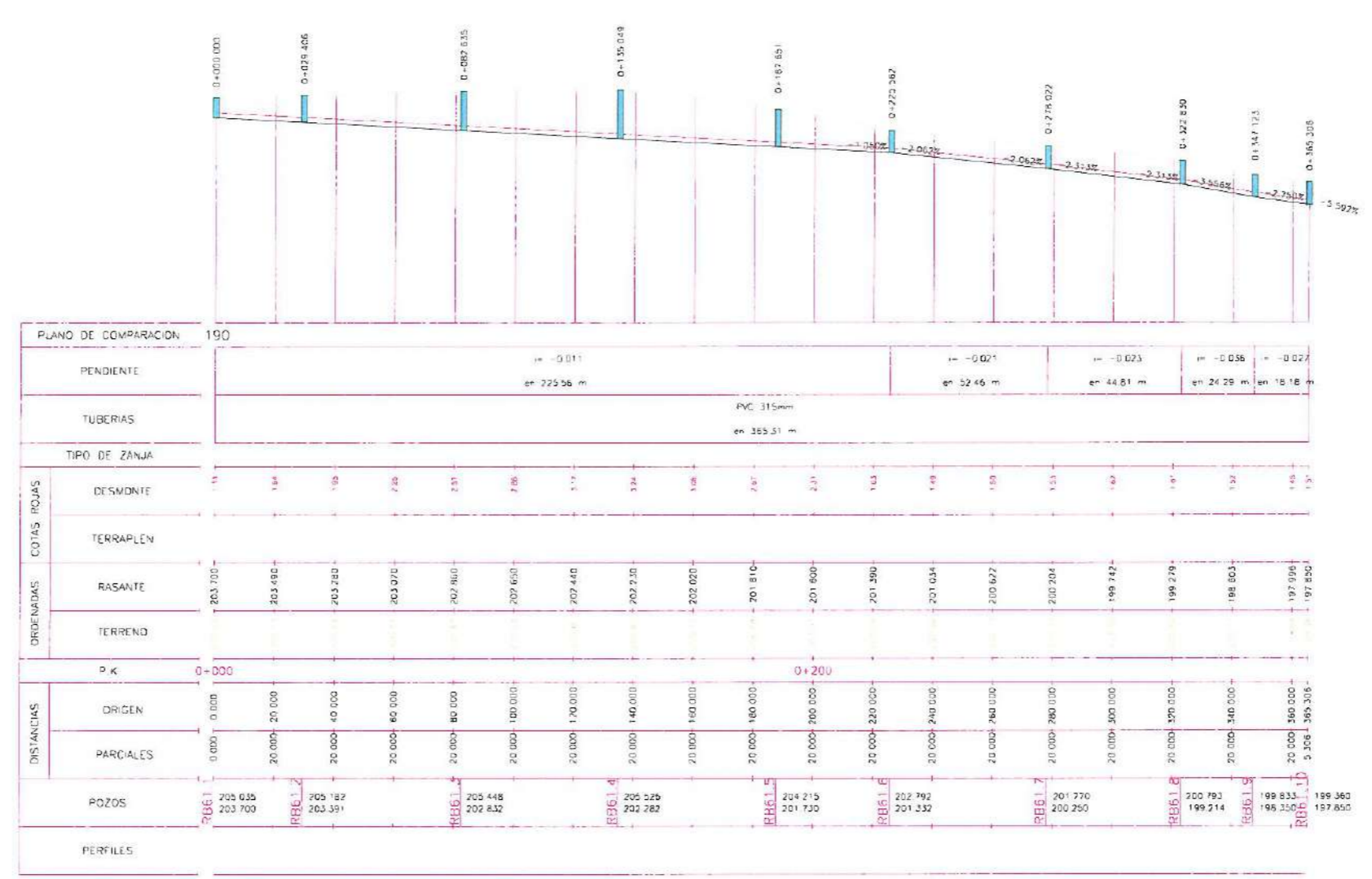
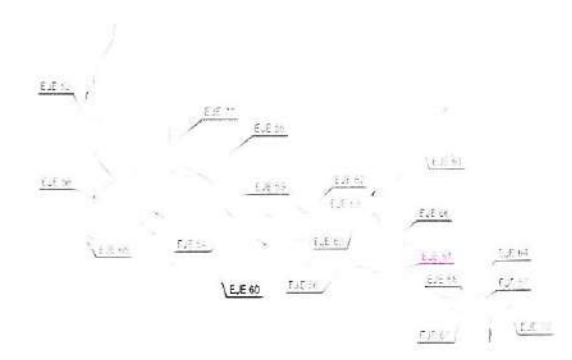
EJE 57
COLECTOR 57 FECALES



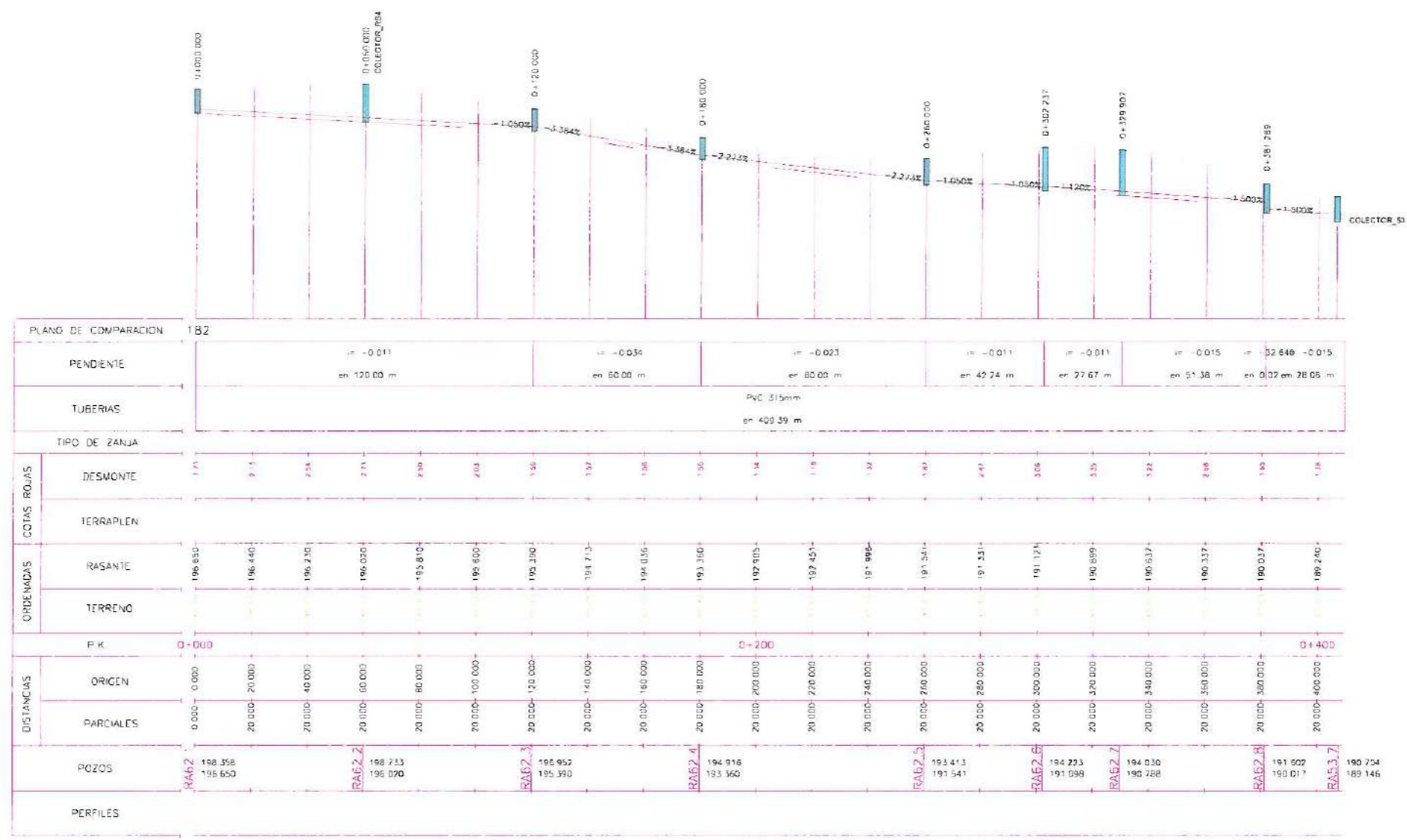
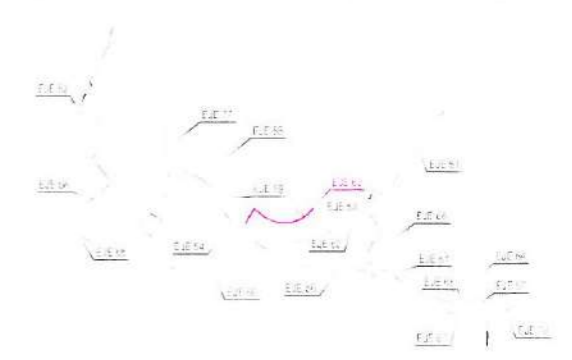
| PLANO DE COMPARACION 176 | |
|--------------------------|-----------------------------|
| PENDIENTE | 1:100000 en 47.52 m |
| TUBERIAS | PVC 315mm en 54.31 m |
| TIPO DE ZANJA | |
| DESMONTE | 3.81 0.40 3.36 |
| TERRAPLEN | |
| RASANTE | 183.729 183.524 183.510 |
| TERRENO | |
| P.K. | 0+000 |
| ORIGEN | 0+000 20+000 40+000 |
| PARCIALES | 12+555 20+000 20+000 40+000 |
| POZOS | 183.729 183.524 183.510 |
| PERFILES | |

EJE 59
COLECTOR 59 FECALES



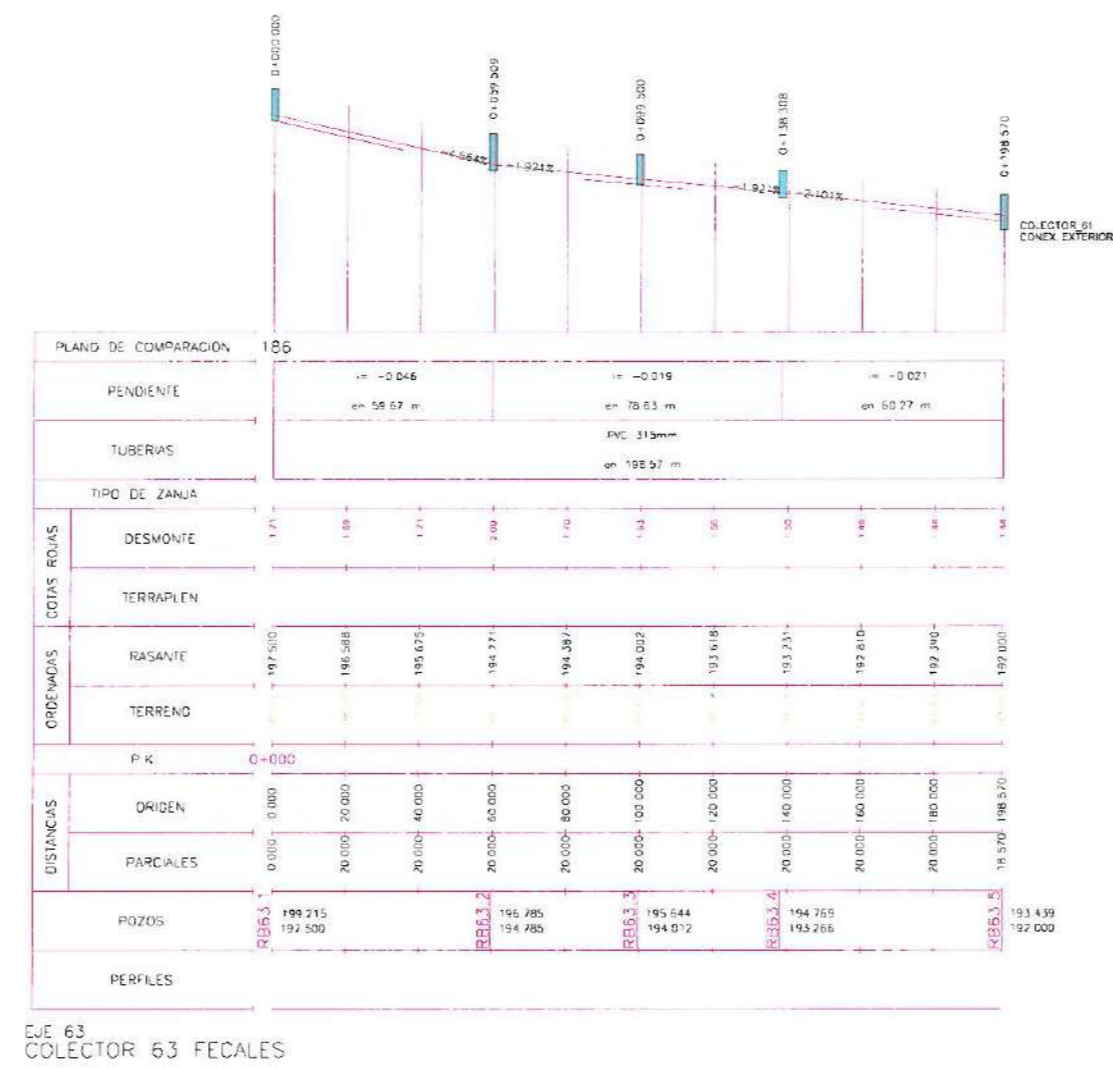
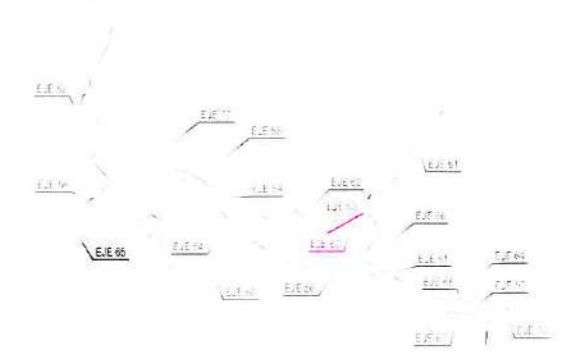


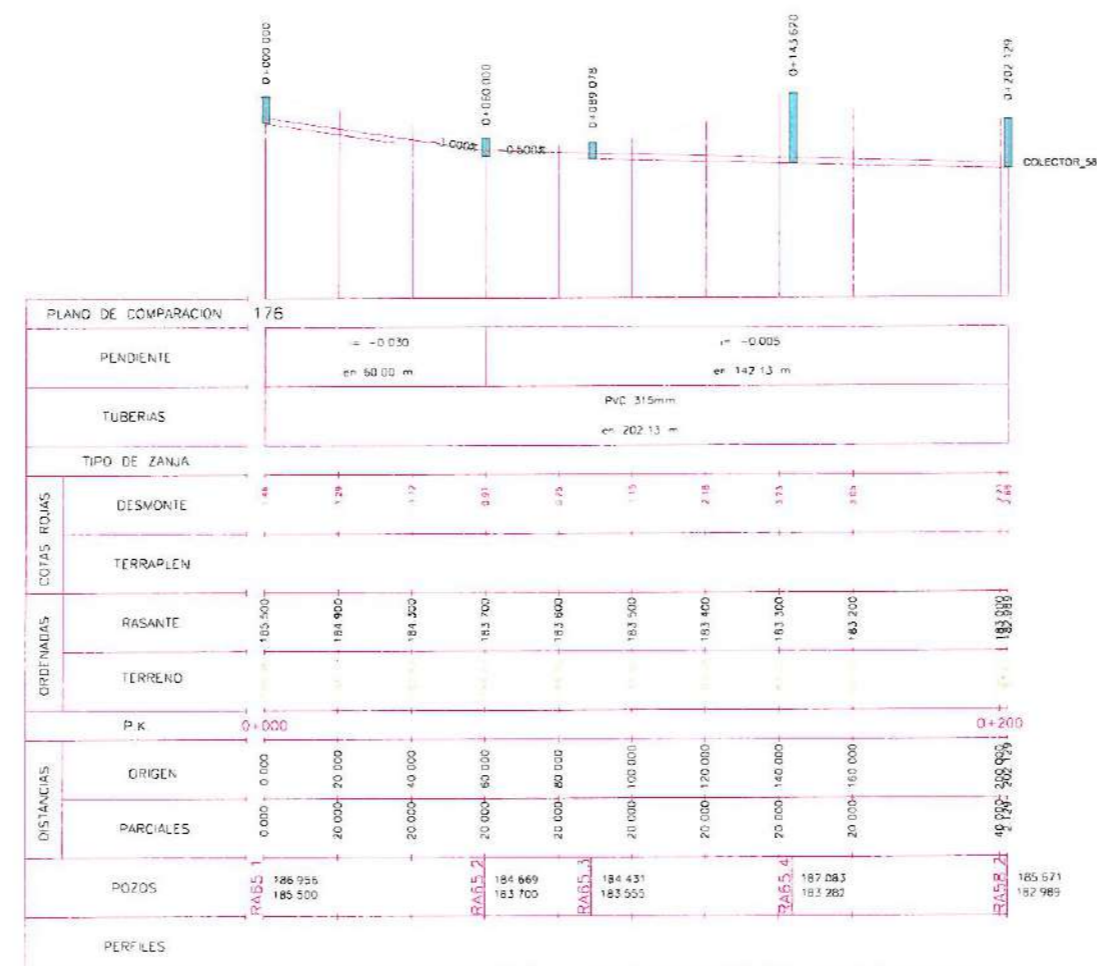
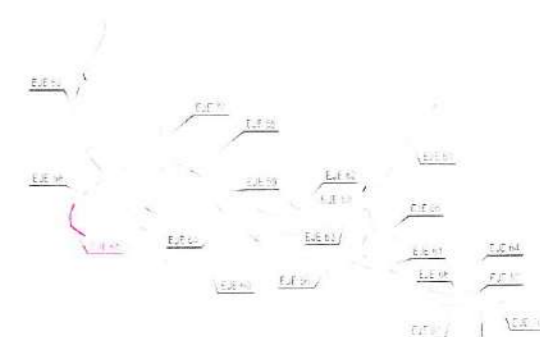
EJE 61
COLECTOR 61 FECALES



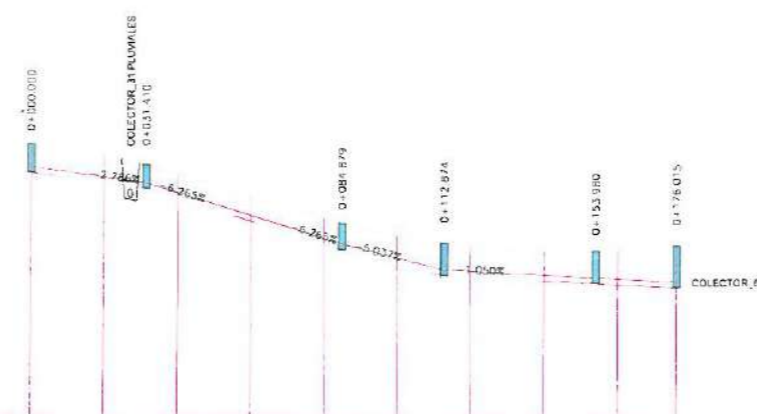
| | | |
|----------------------|--|---|
| PLANO DE COMPARACION | | 182 |
| PENDIENTE | <div> <div>-0.011</div> <div>en 120.00 m</div> </div> <div> <div>-0.034</div> <div>en 60.00 m</div> </div> <div> <div>-0.023</div> <div>en 80.00 m</div> </div> <div> <div>-0.011</div> <div>en 42.74 m</div> </div> <div> <div>-0.011</div> <div>en 27.67 m</div> </div> <div> <div>-0.015</div> <div>en 51.38 m</div> </div> <div> <div>-0.015</div> <div>en 32.64 m</div> </div> <div> <div>-0.015</div> <div>en 38.05 m</div> </div> | |
| TUBERIAS | <div>PVC 515mm</div> <div>en 400.39 m</div> | |
| TIPO DE ZANJA | | |
| COTAS ROJAS | DESMONTE | 1.71 2.15 2.34 2.71 2.90 2.03 1.56 1.97 1.86 1.56 1.34 1.19 1.32 1.90 2.49 3.06 3.35 3.22 2.98 1.80 1.38 |
| | TERRAPLEN | |
| ORDENADAS | RASANTE | 196.550 196.440 196.230 196.020 195.810 195.600 195.390 195.180 194.970 194.760 194.550 194.340 194.130 193.920 193.710 193.500 193.290 193.080 192.870 192.660 192.450 |
| | TERRENO | |
| F.K. | | |
| DISTANCIAS | ORIGEN | 0+000 0+200 0+400 |
| | PARCIALES | 0+000 20+000 40+000 60+000 80+000 100+000 120+000 140+000 160+000 180+000 200+000 220+000 240+000 260+000 280+000 300+000 320+000 340+000 360+000 380+000 400+000 |
| POZOS | <div>RA62.2 198.358 195.650</div> <div>RA62.3 198.733 195.020</div> <div>RA62.4 195.952 195.390</div> <div>RA62.5 194.916 193.360</div> <div>RA62.6 193.413 191.541</div> <div>RA62.7 194.223 191.099</div> <div>RA62.8 194.030 190.788</div> <div>RA62.9 191.502 190.017</div> <div>RA63.0 190.734 189.146</div> | |
| PERFILES | | |

EJE 62
COLECTOR 62 FECALES

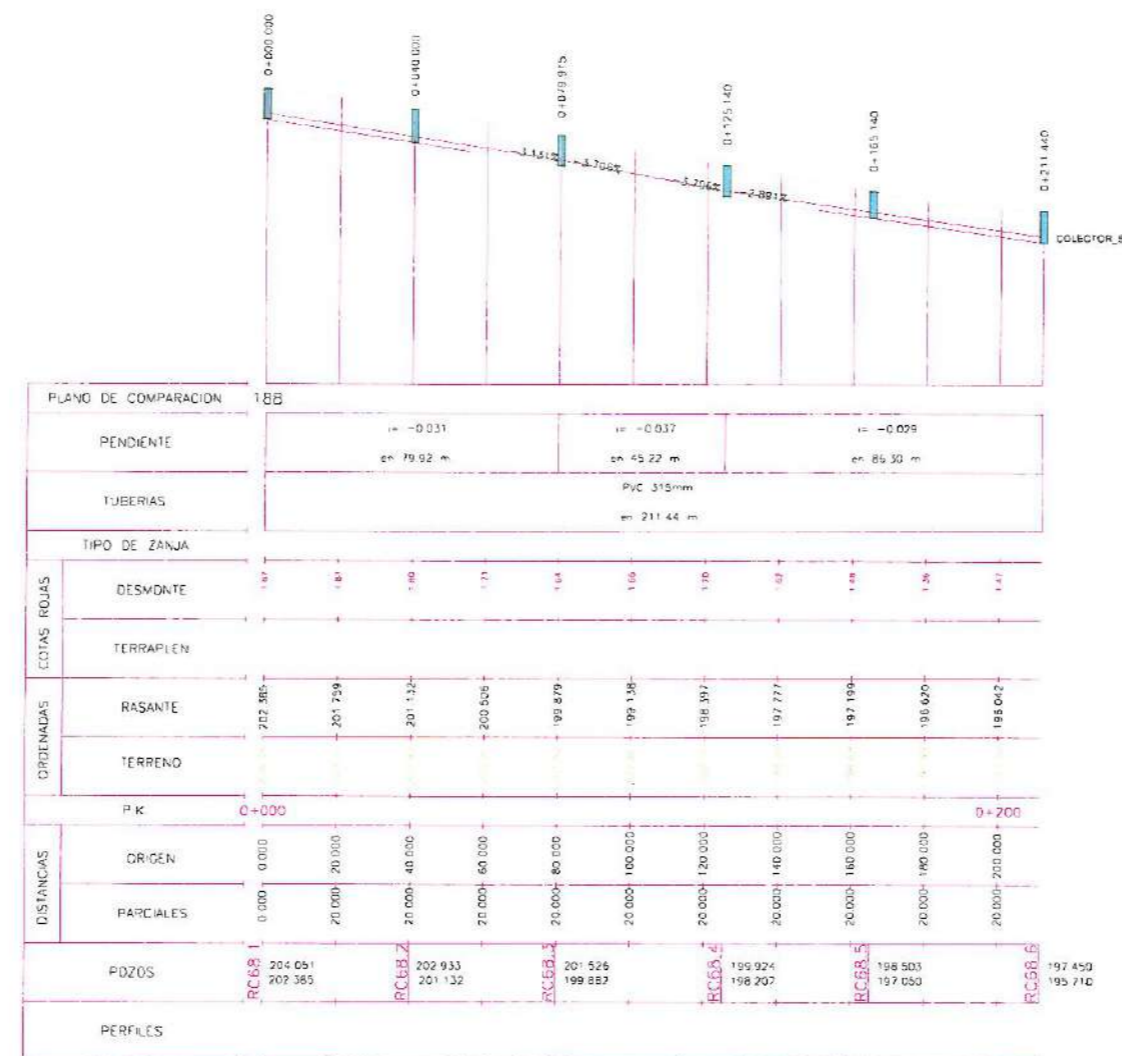




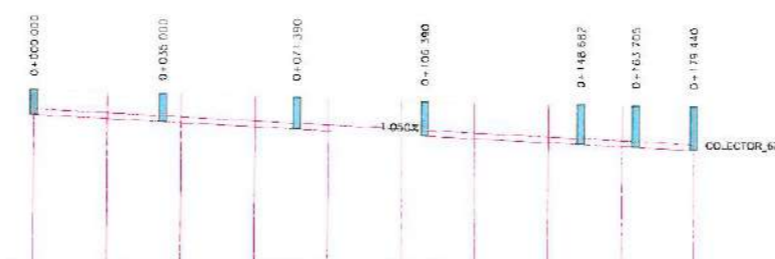
EJE 65
COLECTOR 65 FECALES

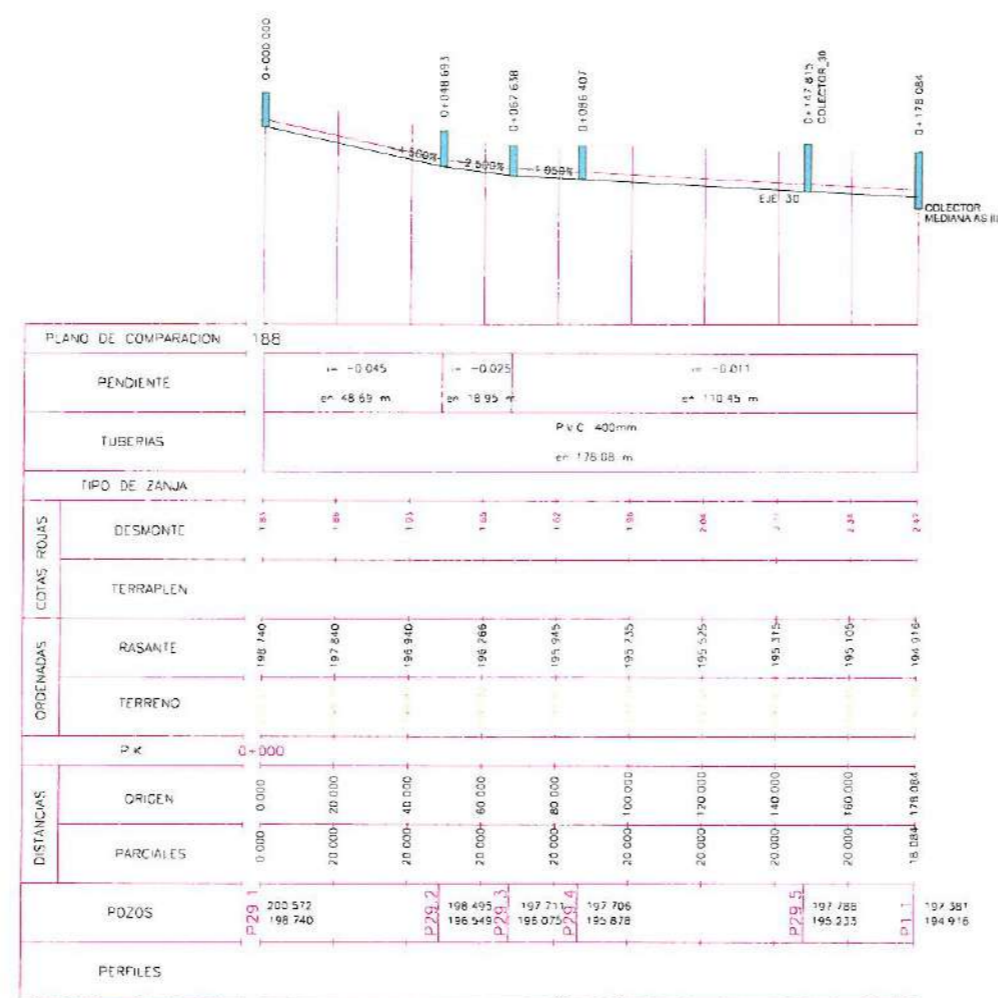
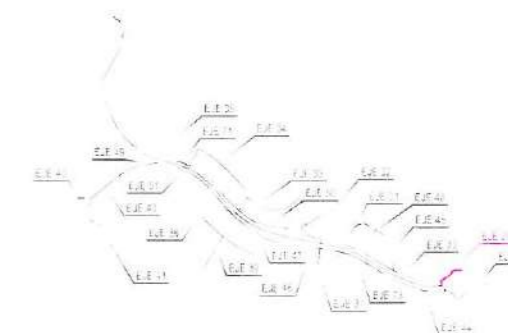


EJE 66
COLECTOR 66 FECALES

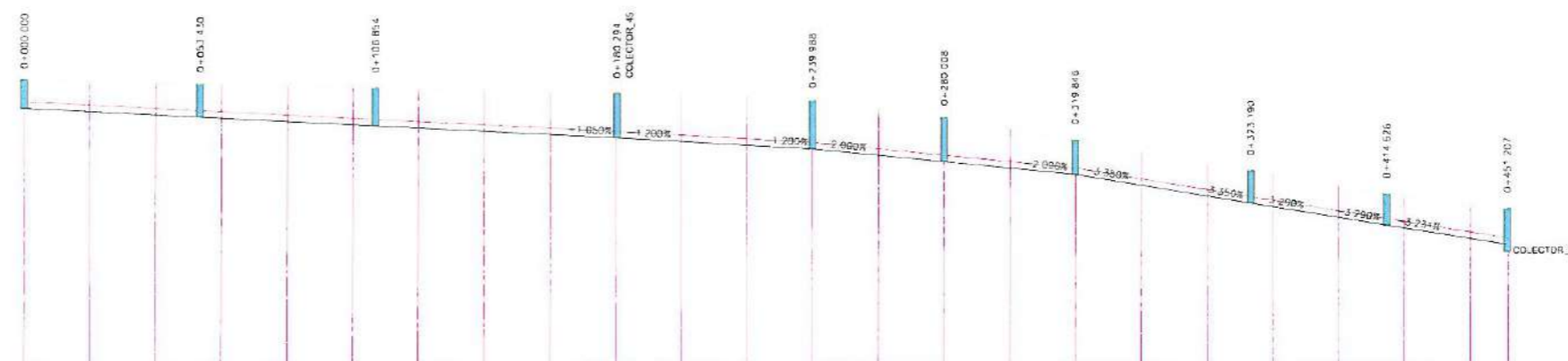
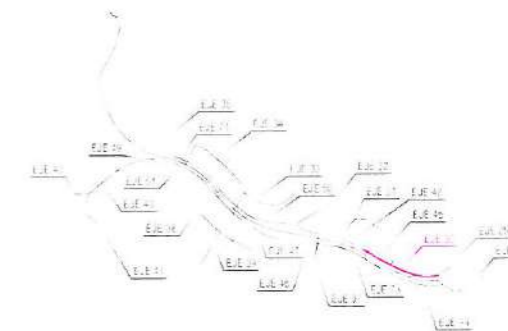


EJE 68
COLECTOR 68 FECALES

EJE 70
COLECTOR 70 FECALES

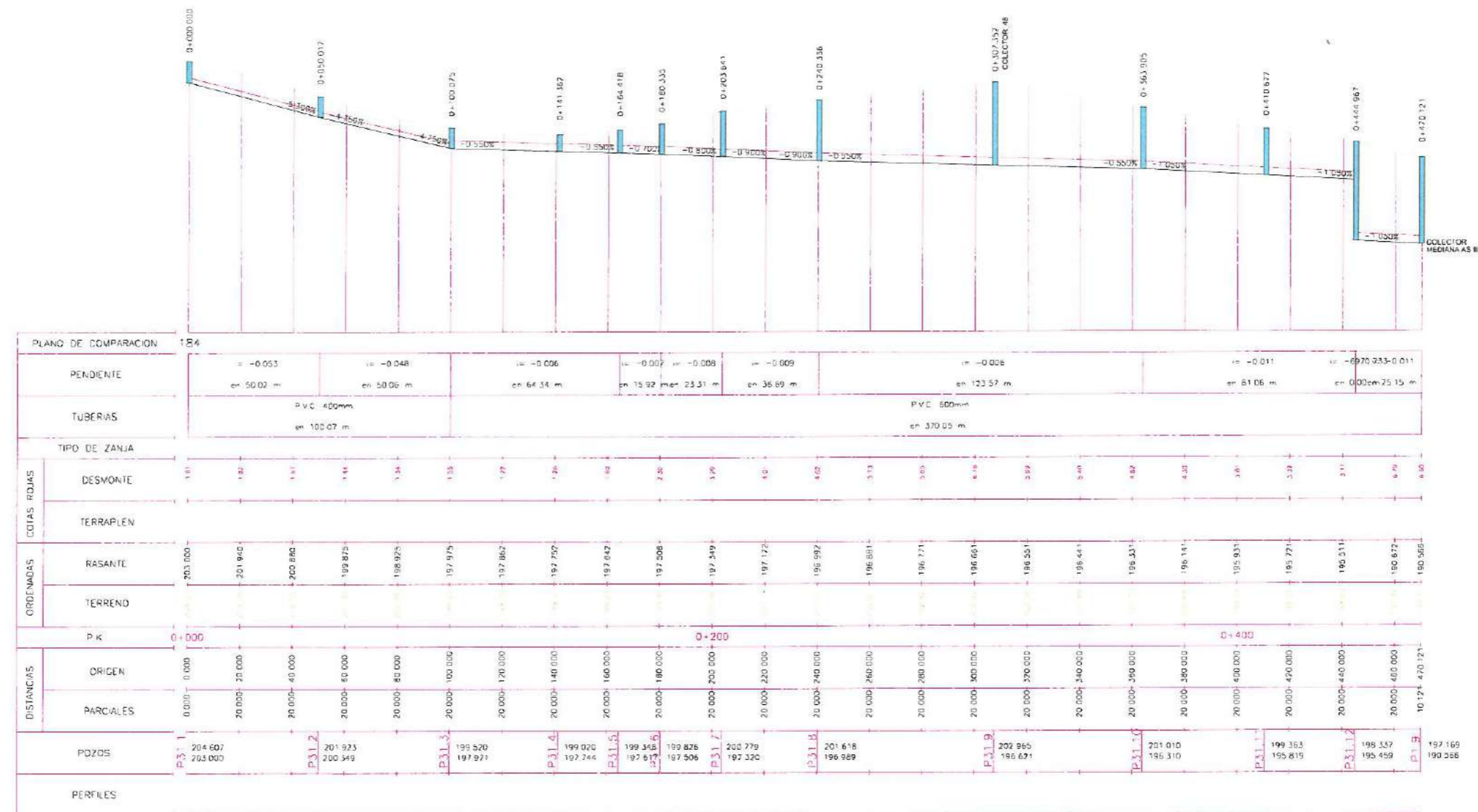


EJE 29
COLECTOR 29 PLUVIALES

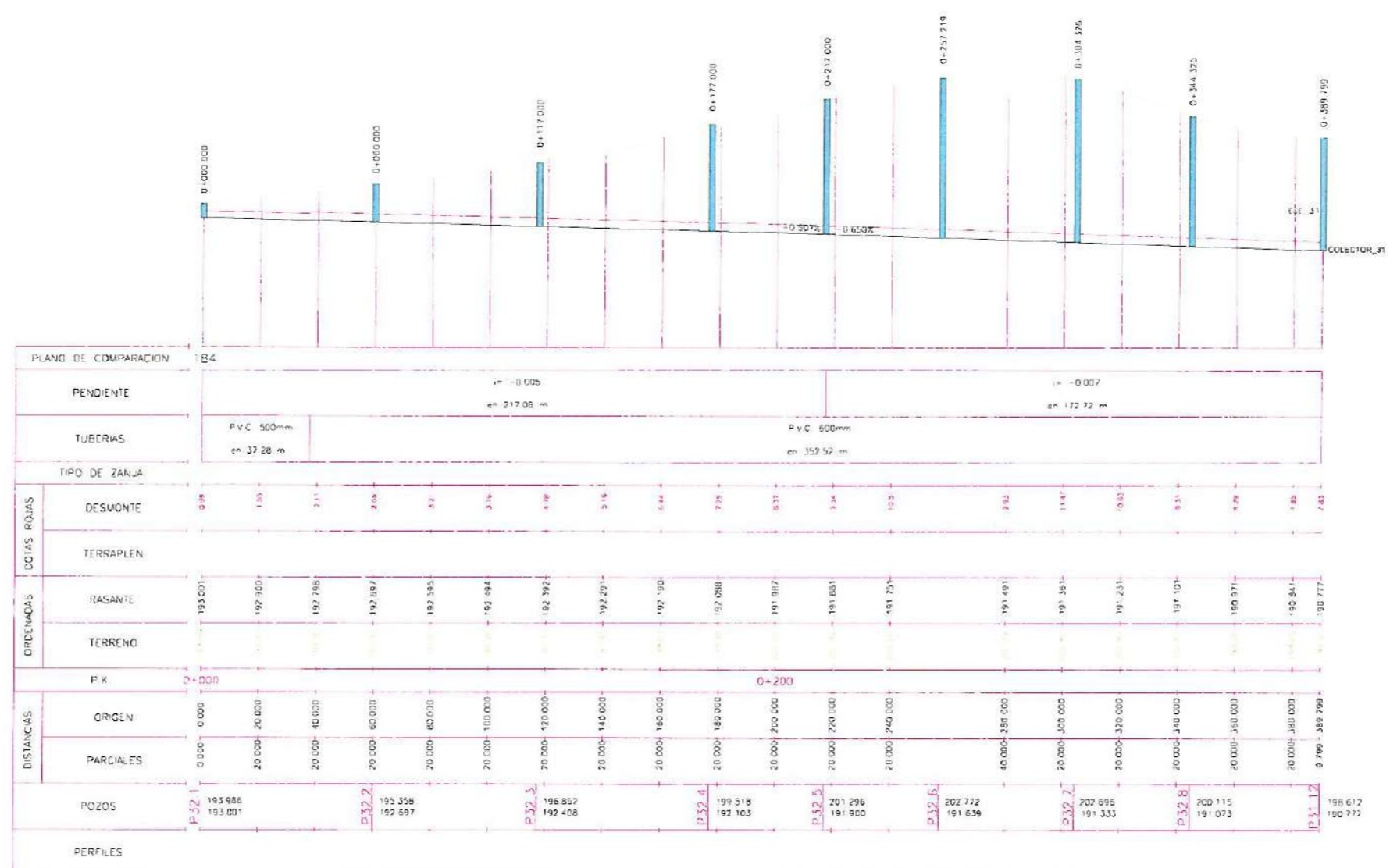
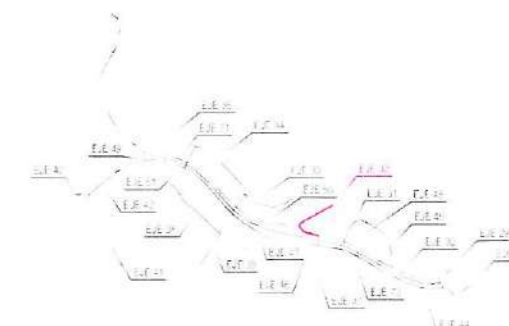


| PLANO DE COMPARACION | | 188 | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|-----------------------------|---------|---------|---------|----------------------|---------|---------|---------|----------------------|---------|---------|---------|----------------------|---------|----------------------|---------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| PENDIENTE | | -0.011 en 180.28 m | | | | -0.012 en 59.68 m | | | | -0.020 en 79.82 m | | | | -0.034 en 53.22 m | | -0.033 en 41.41 m | | -0.032 en 36.57 m | | | | | | | | |
| TUBERIAS | | P.V.C. 400mm en 451.54 m | | | | | | | | | | | | | | | | | | | | | | | | |
| TIPO DE ZANJA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COTAS ROJAS | DESMONTE | 1.71 | 1.82 | 1.93 | 2.04 | 2.15 | 2.26 | 2.37 | 2.47 | 2.58 | 2.69 | 2.80 | 2.89 | 2.94 | 2.99 | 3.07 | 3.16 | 3.20 | 3.28 | 3.36 | 3.40 | 3.48 | 3.56 | 3.67 | 3.75 | |
| | TERRAPLEN | | | | | | | | | | | | | | | | | | | | | | | | | |
| ORDENADAS | RASANTE | 203.850 | 203.640 | 203.430 | 203.220 | 203.010 | 202.800 | 202.590 | 202.380 | 202.170 | 201.960 | 201.750 | 201.540 | 201.480 | 201.470 | 201.440 | 201.440 | 198.638 | 198.638 | 198.988 | 198.988 | 198.298 | 197.542 | 196.974 | 196.191 | 195.273 |
| | TERRINO | | | | | | | | | | | | | | | | | | | | | | | | | |
| P.K. | | 0+000 | | | | | | | | 0+200 | | | | | | | | 0+400 | | | | | | | | |
| DISTANCIAS | ORIGEN | 0.000 | 20.000 | 40.000 | 60.000 | 80.000 | 100.000 | 120.000 | 140.000 | 160.000 | 180.000 | 200.000 | 220.000 | 240.000 | 260.000 | 280.000 | 300.000 | 320.000 | 340.000 | 360.000 | 380.000 | 400.000 | 420.000 | 440.000 | | |
| | PARCIALES | | | | | | | | | | | | | | | | | | | | | | | | | |
| POZOS | P.30.1 | 205.563 | 203.850 | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.2 | | | 205.296 | 203.289 | | | | | | | | | | | | | | | | | | | | | |
| PERFILES | P.30.3 | | | | | 205.029 | 202.728 | | | | | | | | | | | | | | | | | | | |
| | P.30.4 | | | | | | | 204.652 | 201.957 | | | | | | | | | | | | | | | | | |
| | P.30.5 | | | | | | | | | 204.156 | 201.240 | | | | | | | | | | | | | | | |
| | P.30.6 | | | | | | | | | | | 203.113 | 200.440 | | | | | | | | | | | | | |
| | P.30.7 | | | | | | | | | | | | | 201.716 | 199.643 | | | | | | | | | | | |
| | P.30.8 | | | | | | | | | | | | | | | 199.836 | 197.856 | | | | | | | | | |
| | P.30.9 | | | | | | | | | | | | | | | | | 198.377 | 196.493 | | | | | | | |
| | P.30.10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.12 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.13 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.15 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.17 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.30.18 | | | | | | | | | | | | | | | | | | | | | | | | | |

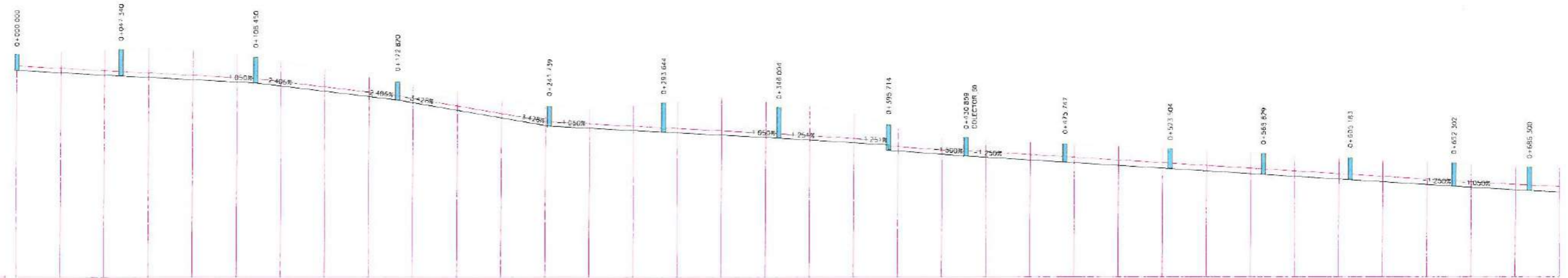
EJE 30
COLECTOR 30 PLUVIALES



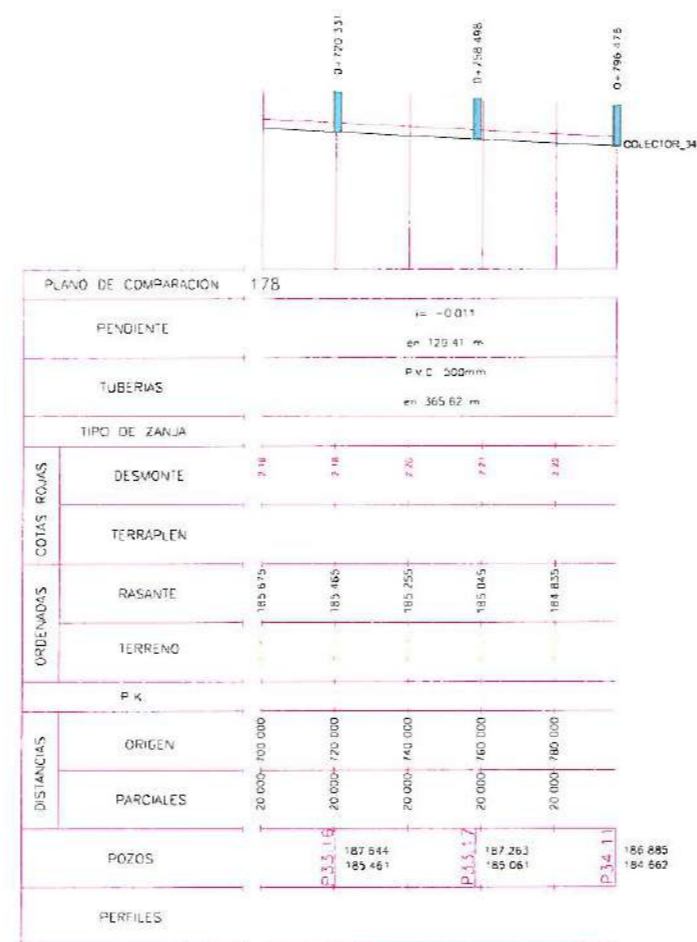
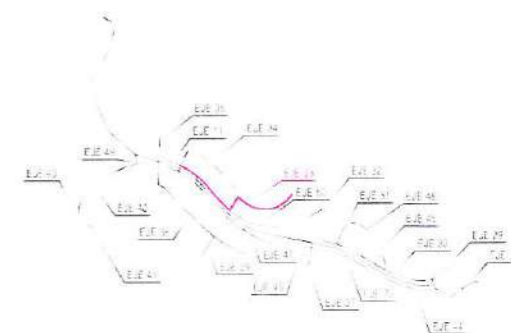
EJE 31
COLECTOR 31 PLUVIALES



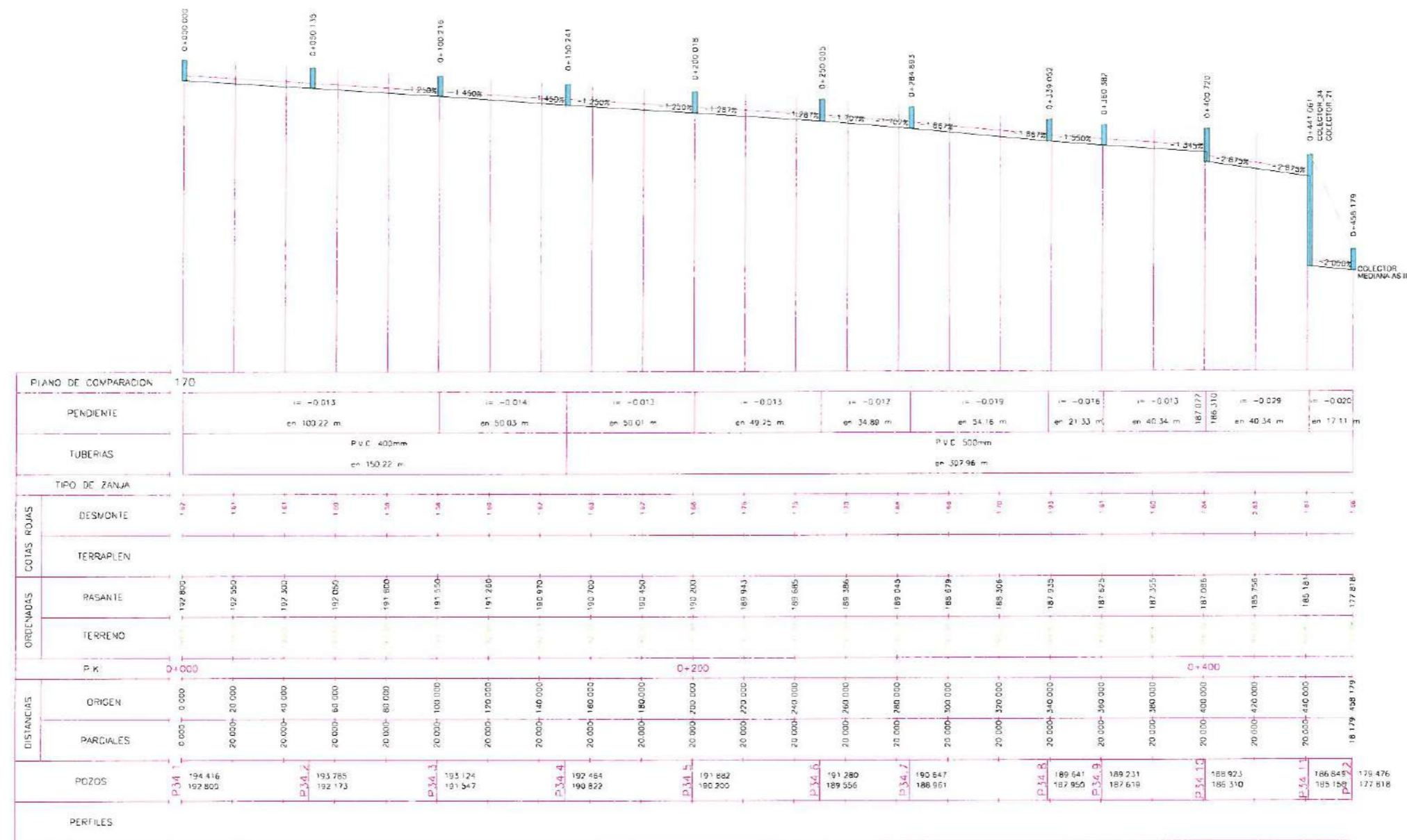
EJE 32
COLECTOR 32 PLUVIALES

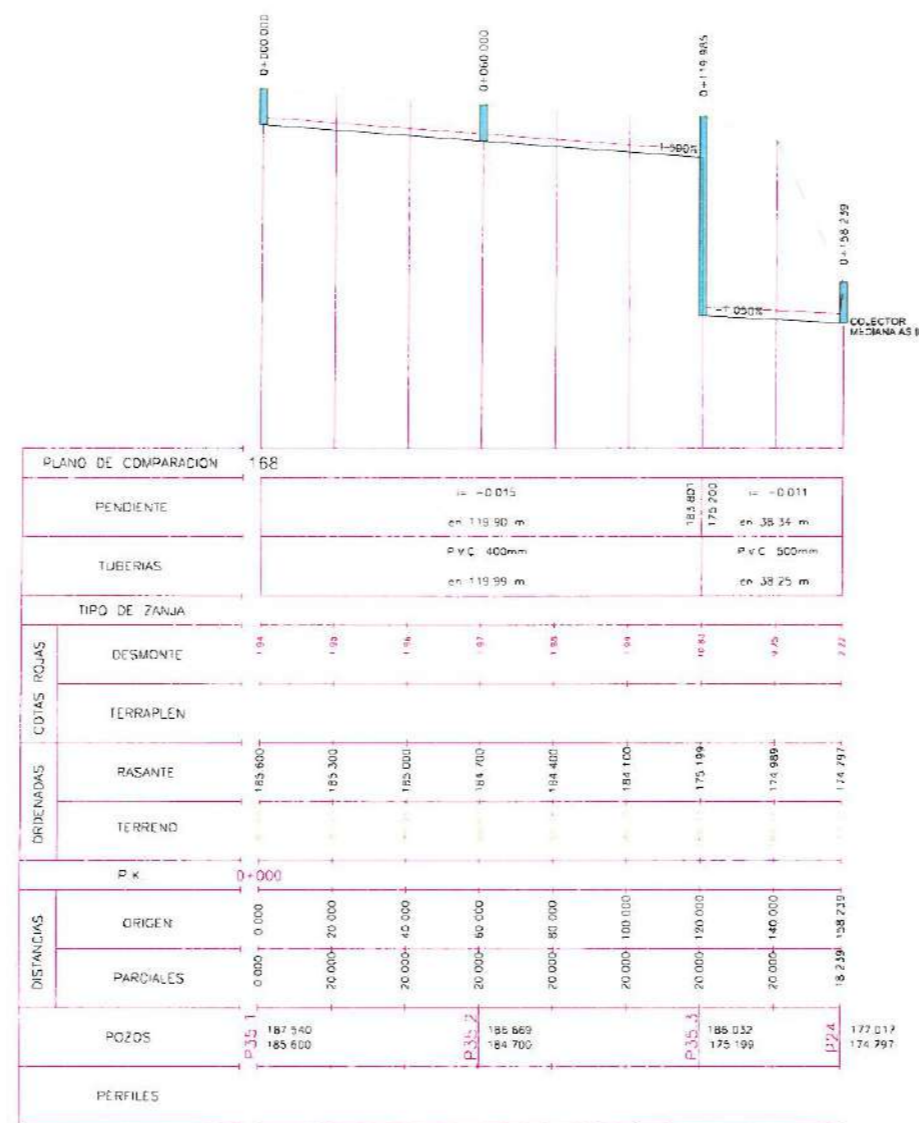
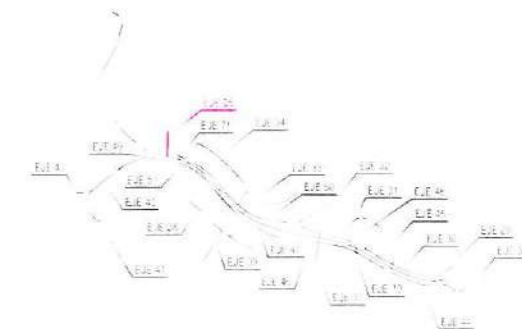


EJE 33
COLECTOR 33 PLUVIALES

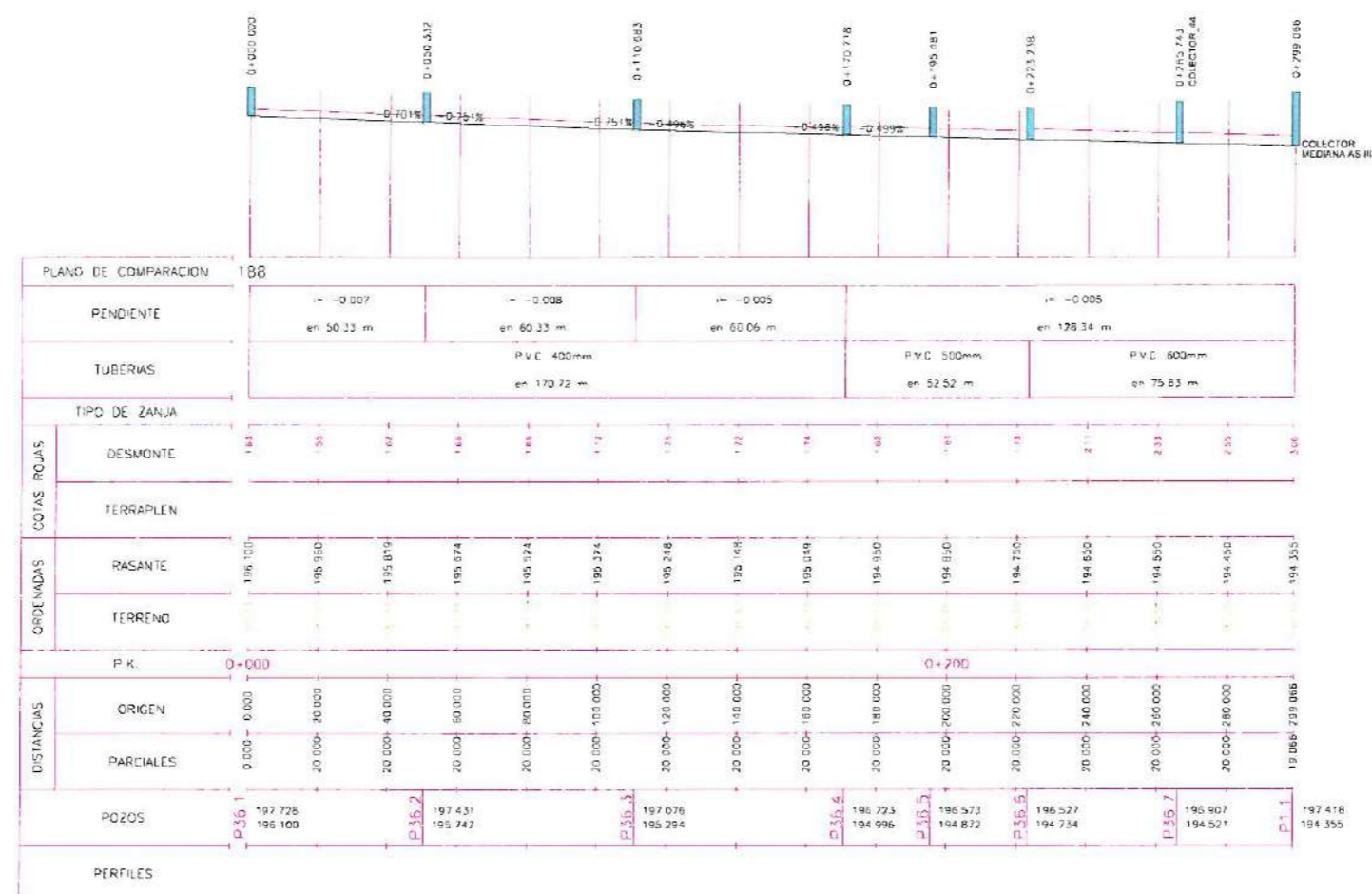
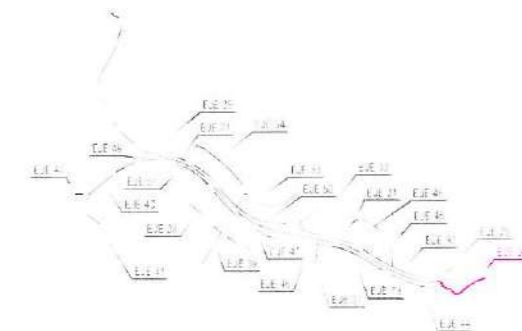


EJE 33
COLECTOR 33 PLUVIALES

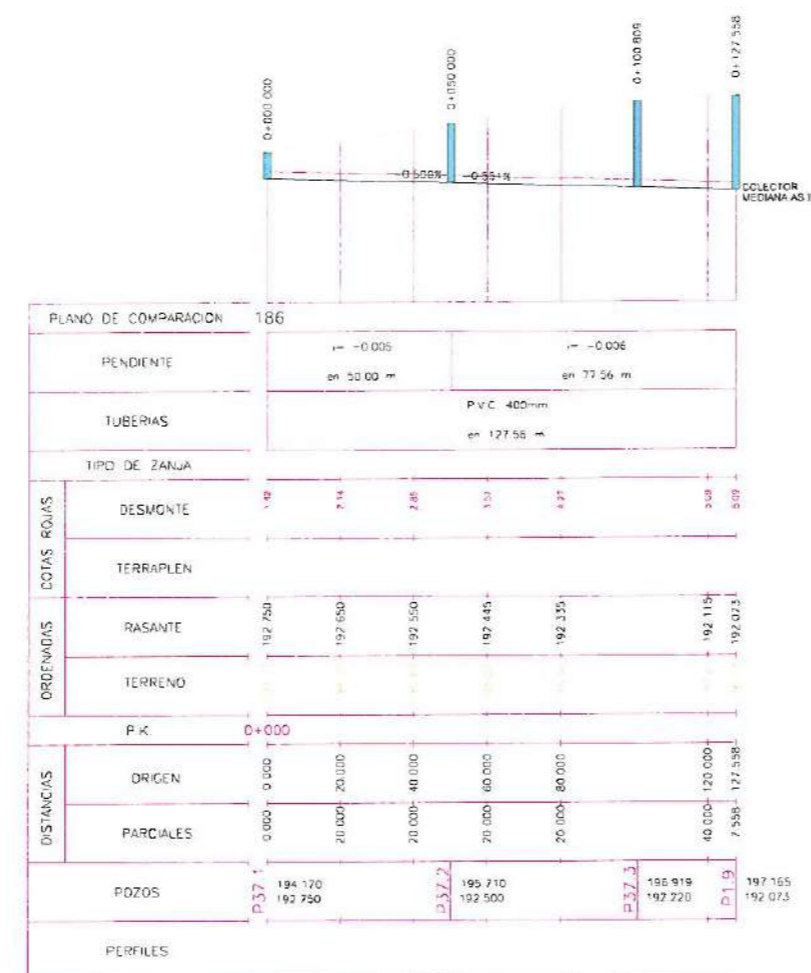
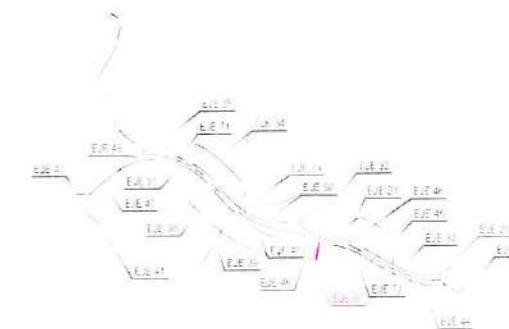




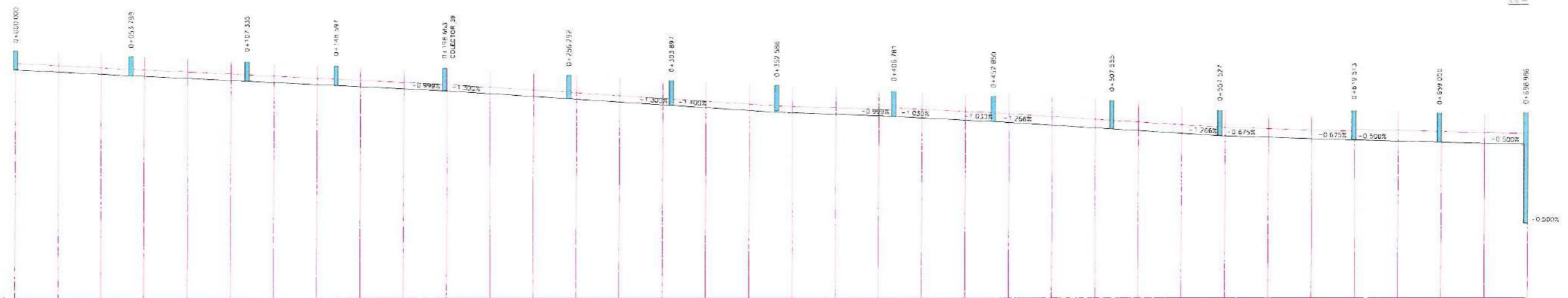
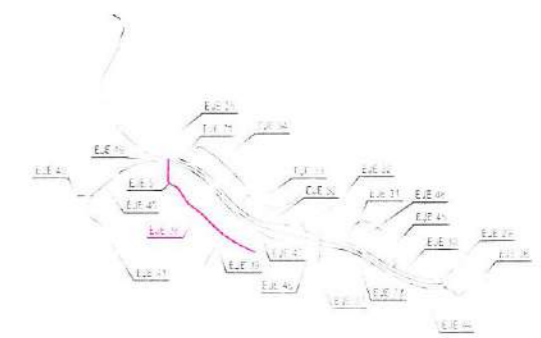
EJE 35
COLECTOR 35 PLUVIALES



EJE 36
COLECTOR 36 PLUVIALES

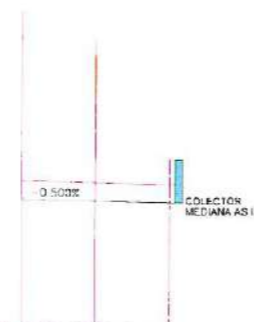
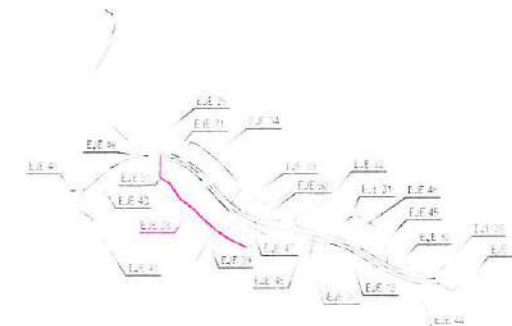


EJE 37
COLECTOR 37 PLUVIALES



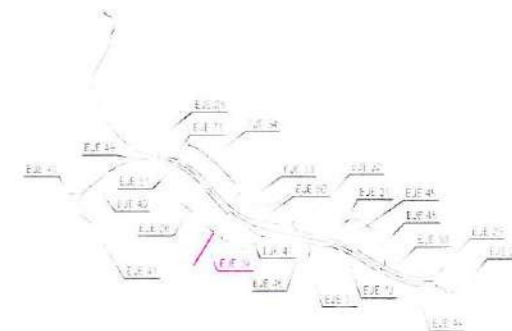
| PLANO DE COMPARACION 168 | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------|--------------------------|---------|--------------------------|---------|---------|
| PENDIENTE | | i = -0.010 en 198.85 m | | | i = -0.013 en 104.88 m | | | i = -0.014 en 48.85 m | | i = -0.010 en 54.25 m | | i = -0.010 en 47.23 m | | i = -0.013 en 103.48 m | | i = -0.007 en 80.73 m | | i = -0.005 en 80.04 m | | i = -0.005 en 54.20 m | | |
| TUBERIAS | | P.V.C. 600mm en 405.78 m | | | | | | | | | | n.A. 800mm en 212.73 m | | | | n.A. 1000mm en 123.05 m | | | | | | |
| TIPO DE ZANJA | | | | | | | | | | | | | | | | | | | | | | |
| COTAS ROJAS | DESMONTE | 176 | 176 | 176 | 176 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | |
| | TERRAPLEN | 176 | 176 | 176 | 176 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | 178 | |
| ORDENADAS | RASANTE | 189.200 | 189.000 | 188.800 | 188.600 | 188.400 | 188.200 | 188.000 | 187.800 | 187.600 | 187.400 | 187.198 | 186.938 | 186.618 | 186.418 | 186.158 | 185.898 | 185.687 | 185.487 | 185.287 | 185.088 | 184.888 |
| | TERRENO | 189.200 | 189.000 | 188.800 | 188.600 | 188.400 | 188.200 | 188.000 | 187.800 | 187.600 | 187.400 | 187.198 | 186.938 | 186.618 | 186.418 | 186.158 | 185.898 | 185.687 | 185.487 | 185.287 | 185.088 | 184.888 |
| P.K. | | 0+000 | | | | | | | | | | | | | | | | | | | | |
| DISTANCIAS | ORIGEN | 0+000 | 20+000 | 40+000 | 60+000 | 80+000 | 100+000 | 120+000 | 140+000 | 160+000 | 180+000 | 200+000 | 220+000 | 240+000 | 260+000 | 280+000 | 300+000 | 320+000 | 340+000 | 360+000 | 380+000 | 400+000 |
| | PARCIALES | 0+000 | 20+000 | 40+000 | 60+000 | 80+000 | 100+000 | 120+000 | 140+000 | 160+000 | 180+000 | 200+000 | 220+000 | 240+000 | 260+000 | 280+000 | 300+000 | 320+000 | 340+000 | 360+000 | 380+000 | 400+000 |
| POZOS | | P38.1 190.989 189.200 | P38.2 190.451 189.663 | P38.3 189.915 188.121 | P38.4 189.502 187.715 | P38.5 189.284 187.215 | P38.6 188.844 185.466 | P38.7 188.168 185.848 | P38.8 187.681 185.362 | P38.9 187.138 184.820 | P38.10 186.672 184.345 | P38.11 186.304 183.626 | P38.12 185.363 183.023 | P38.13 185.210 182.607 | P38.14 185.113 182.409 | P38.15 185.131 174.905 | | | | | | |
| PERFILES | | | | | | | | | | | | | | | | | | | | | | |

EJE 38
COLECTOR 38 PLUVIALES



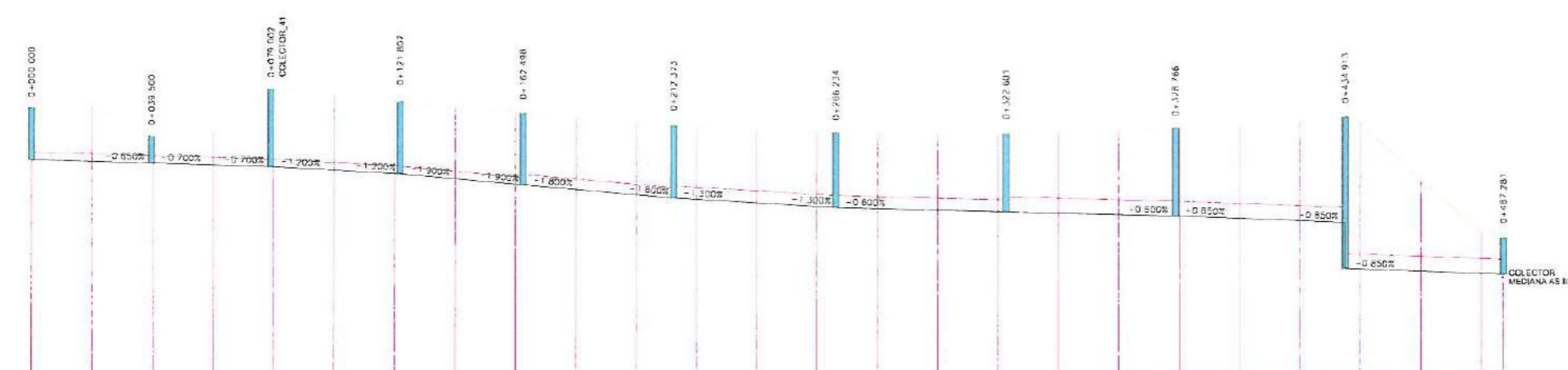
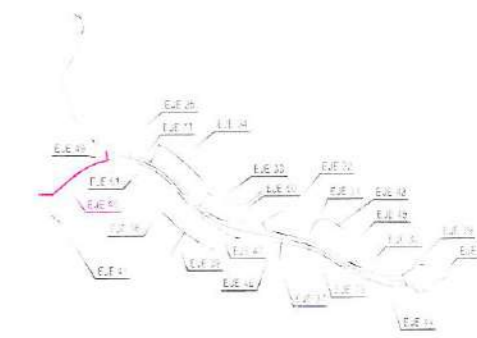
| | |
|--------------------------|---------------------------------|
| PLANO DE COMPARACION 168 | |
| PENDIENTE | $i = -0.005$ en 44.20 m |
| TUBERIAS | H.A. 1000mm en 123.05 m |
| TIPO DE ZANJA | |
| COTAS ROJAS | DESMONTE 12.20 0.34 2.44 |
| TERRAPLEN | |
| ORDENADAS | RASANTE 174.900 174.800 174.700 |
| TERRENO | |
| P.K. | |
| DISTANCIAS | ORDEN 20.000 20.000 20.000 |
| | PARCIALES 20.000 20.000 20.000 |
| POZOS | |
| PERFILES | |

EJE 38
COLECTOR 38 PLUVIALES



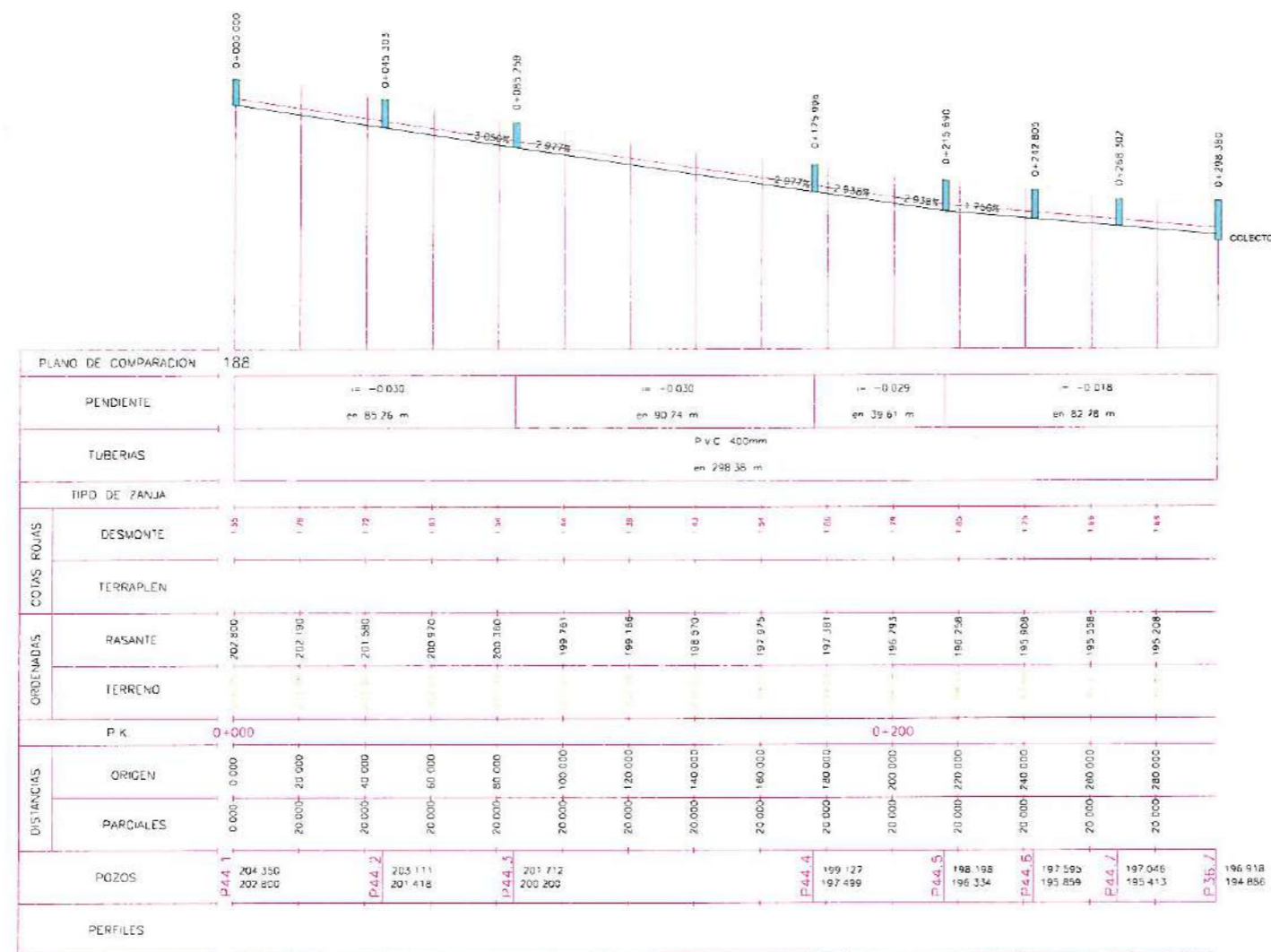
| PLANO DE COMPARACION | | 180 |
|----------------------|-------------|--|
| PENDIENTE | 1 | -0.028 en 49.26 m |
| | 2 | -0.043 en 49.58 m |
| TUBERIAS | 3 | -0.016 en 56.00 m |
| | 4 | -0.010 en 37.07 m |
| TIPO DE ZANJA | | P.V.C. 400mm en 211.91 m |
| ORDENADAS | COTAS ROJAS | 1.92 2.23 2.30 2.37 2.41 1.92 1.84 1.84 2.05 2.05 2.07 |
| | DESMONTE | |
| | TERRAPIEN | |
| | RASANTE | 192.350 191.782 191.713 190.484 189.617 188.719 188.422 188.065 187.747 187.541 187.336 187.213 |
| DISTANCIAS | PIK | 0+000 0+200 |
| | ORIGEN | 0.000 20.000 40.000 60.000 80.000 100.000 120.000 140.000 160.000 180.000 200.000 211.910 |
| | PARCIALES | 0.000 20.000 40.000 60.000 80.000 100.000 120.000 140.000 160.000 180.000 200.000 211.910 |
| POZOS | | P.39.1 194.282 192.350 P.39.2 193.499 190.950 P.39.3 190.729 188.800 P.39.4 189.833 187.800 P.39.5 189.281 187.213 |
| PERFILES | | |



EJE 39
COLECTOR 39 PLUVIALES

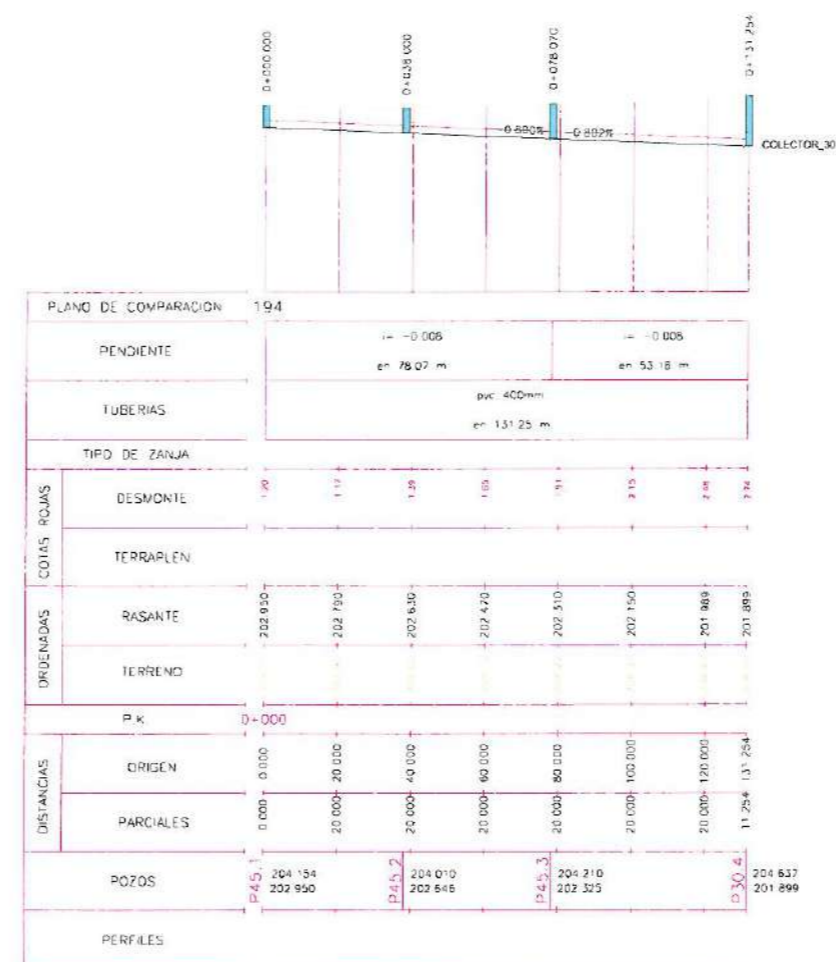
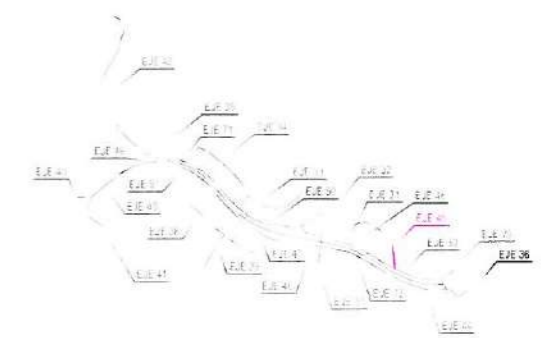


| PLANO DE COMPARACION | | 165 | | | | | | | | | | |
|----------------------|-----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| PENDIENTE | | i = -0.007 en 39.50 m | i = -0.007 en 39.50 m | i = -0.012 en 42.81 m | i = -0.019 en 40.69 m | i = -0.018 en 49.88 m | i = -0.013 en 53.85 m | i = -0.006 en 112.53 m | | i = -0.008 en 56.15 m | 176.420 173.387 | i = -0.008 en 52.37 m |
| TUBERIAS | | PVC 500mm en 162.50 m | | | | H-A 700mm en 49.87 m | H-A 800mm en 110.23 m | | H-A 1000mm en 164.68 m | | | |
| TIPO DE ZANJA | | | | | | | | | | | | |
| COTAS ROJAS | DESMONTE | 3.44 | 3.70 | 3.78 | 2.20 | 5.35 | 4.53 | 4.27 | 4.74 | 4.72 | 4.72 | 3.46 |
| | TERRAPLEN | | | | | | | | | | | |
| ORDENADAS | RASANTE | 181.000 | 180.870 | 180.740 | 180.600 | 180.450 | 180.215 | 179.975 | 179.607 | 179.227 | 178.855 | 178.505 |
| | TERRENO | 181.000 | 180.870 | 180.740 | 180.600 | 180.450 | 180.215 | 179.975 | 179.607 | 179.227 | 178.855 | 178.505 |
| P.K. | | 0+000 | | | | | | | | | | |
| DISTANCIAS | ORDEN | 0.000 | 20.000 | 40.000 | 60.000 | 80.000 | 100.000 | 120.000 | 140.000 | 160.000 | 180.000 | 200.000 |
| | PARCIALES | 0.000 | 20.000 | 40.000 | 60.000 | 80.000 | 100.000 | 120.000 | 140.000 | 160.000 | 180.000 | 200.000 |
| POZOS | | P40.1 184.439 181.000 | P40.2 182.506 180.743 | P40.3 185.575 180.467 | P40.4 184.708 179.953 | P40.5 183.895 179.180 | P40.6 183.061 178.792 | P40.7 182.535 177.582 | P40.8 182.398 177.244 | P40.9 182.683 176.907 | P40.10 183.388 173.387 | P41.06 175.340 172.942 |
| PERFILES | | | | | | | | | | | | |

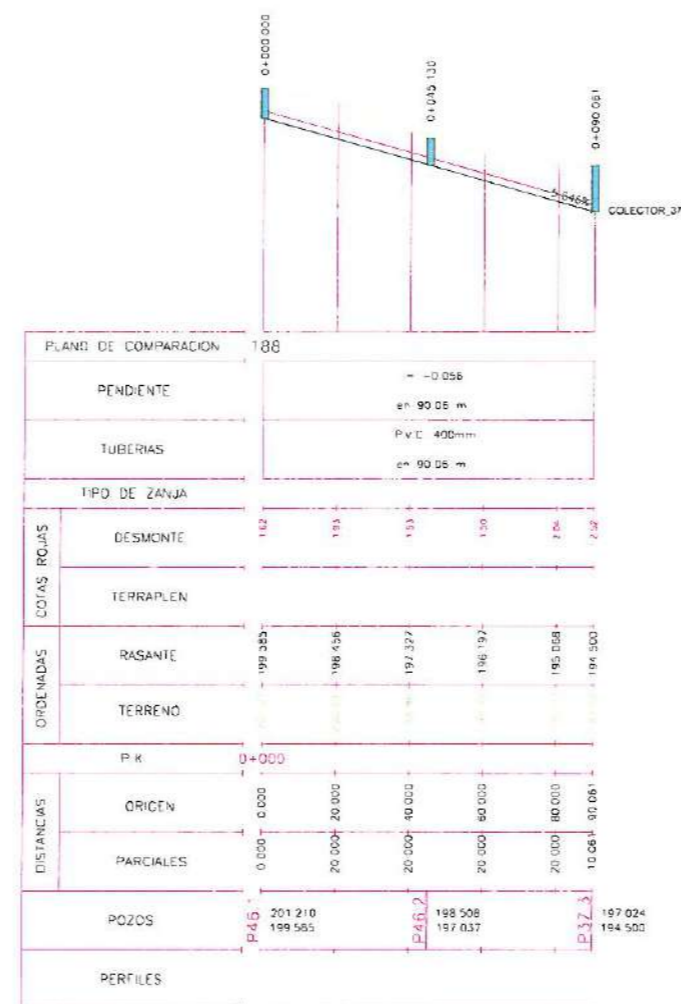
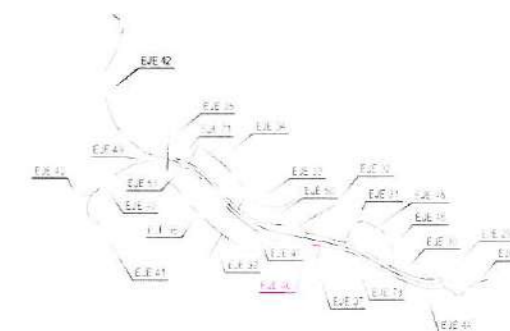
EJE 40
COLECTOR 40 PLUVIALES



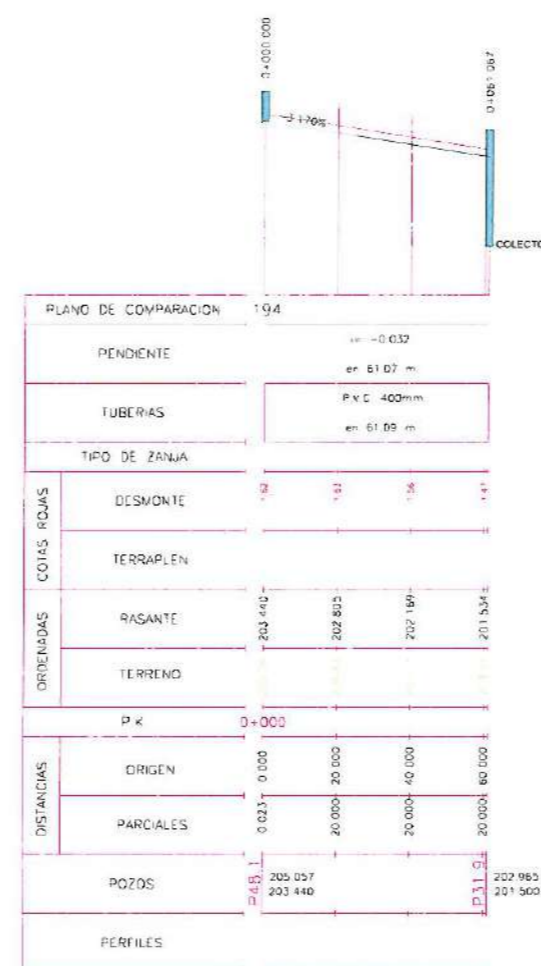
| | | | | | | |
|---|---|---|------------------------------------|----------------------------------|---|-----------------------------|
|  GOBIERNO DEL PRINCIPADO DE ASTURIAS | EMPRESA CONSTRUCTORA (U.T.E.)  UTE POLÍGONO DE BOBES | TÍTULO PROYECTO DE URBANIZACIÓN DEL PLAN PARCIAL "BOBES INDUSTRIAL" (SIERO) | ESCALAS H=1000 V=200 | FECHA OCTUBRE 2011 | TÍTULO DEL PLANO Drenaje y Saneamiento P. Longitudinales Polígono Red Pluviales | PLANO N. 1.4.2 |
| | | | | | | HOJA 15 DE 24 |



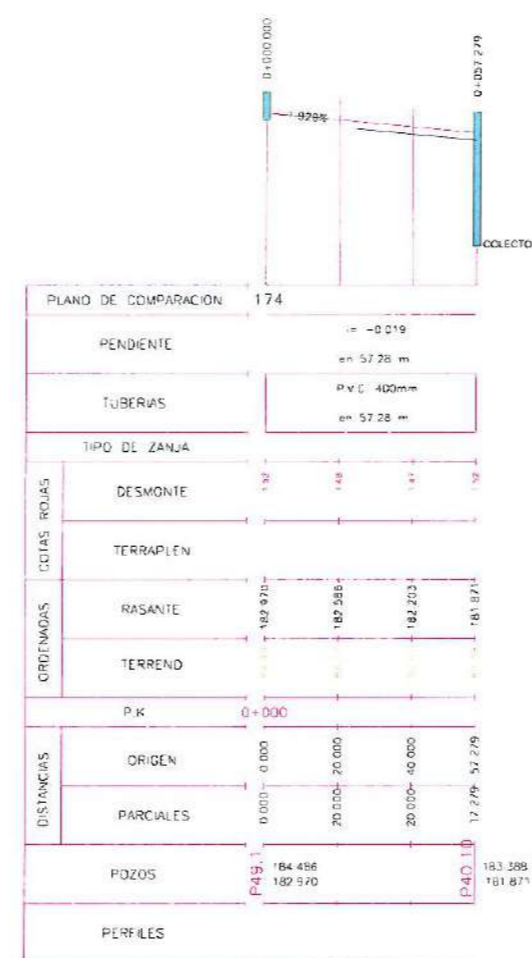
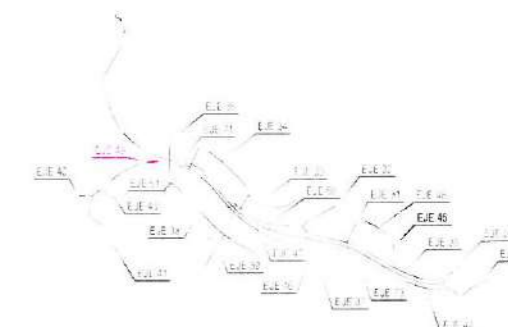
EJE 45
COLECTOR 45 PLUVIALES



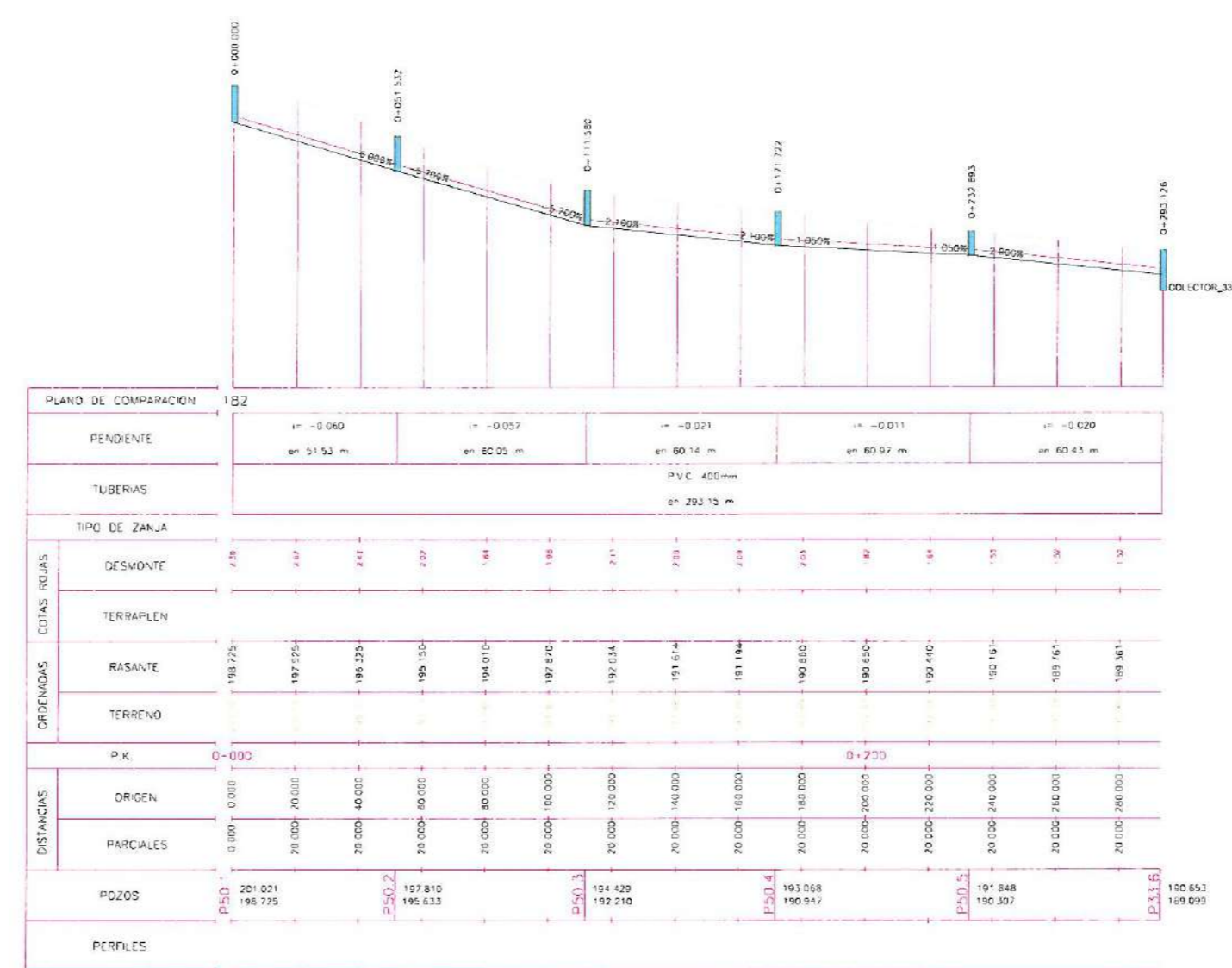
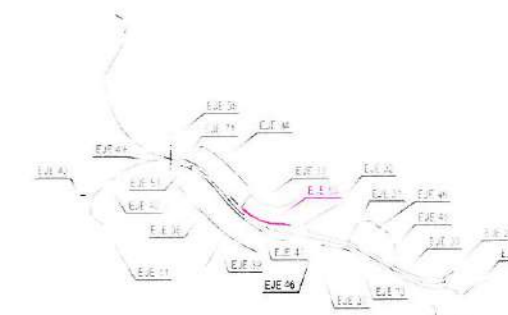
EJE 46
COLECTOR 46 PLUVIALES



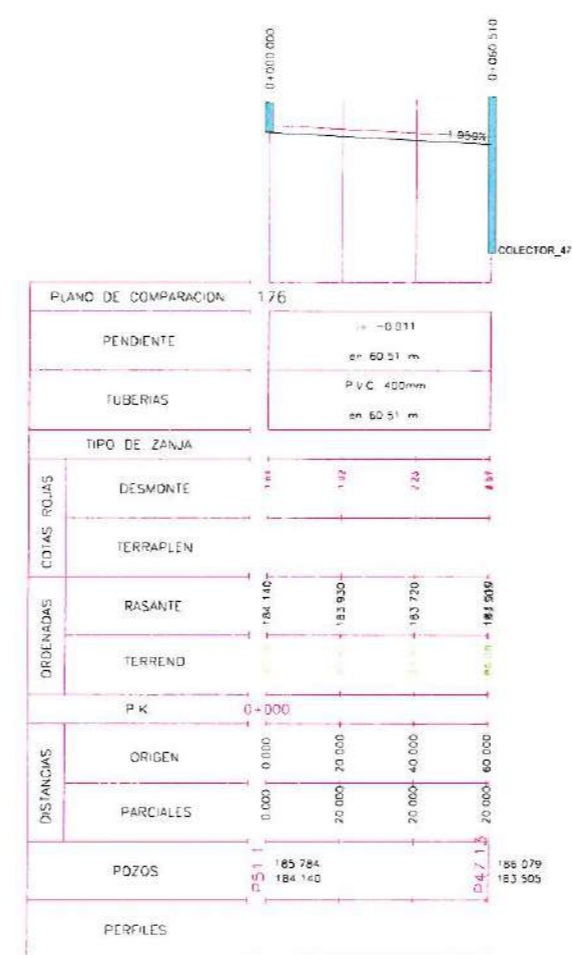
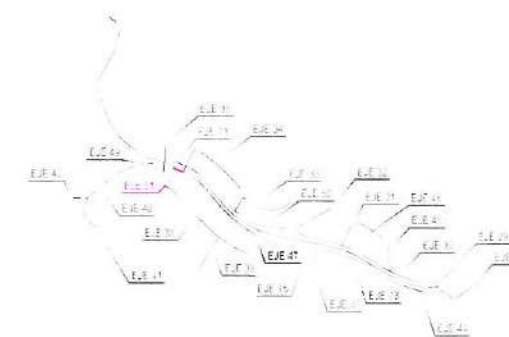
| | |
|---------|----------|
| PLANO N | 1.4.2 |
| HOJA | 19 DE 24 |



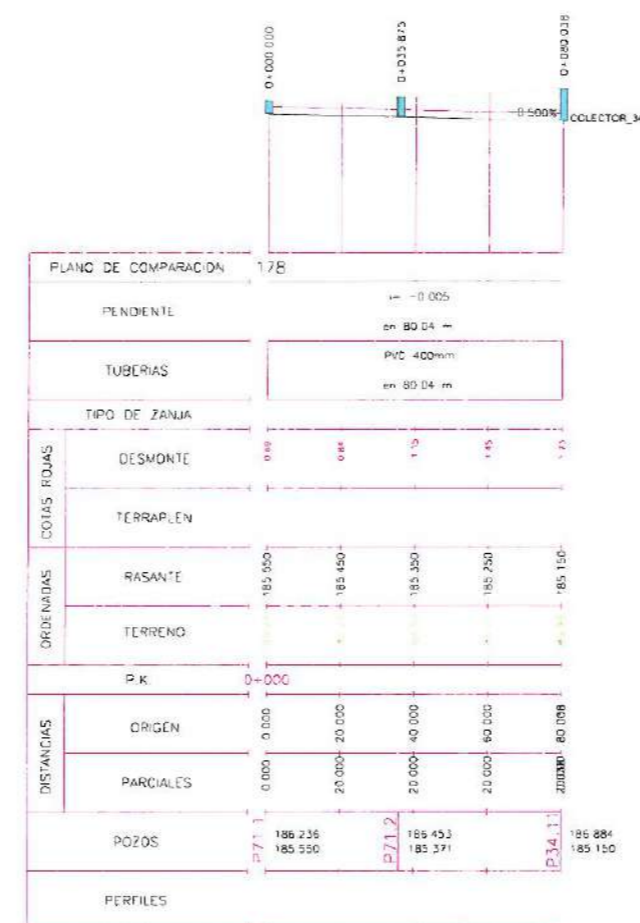
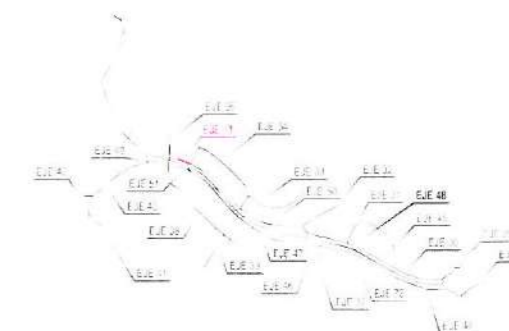
EJE 49
COLECTOR 49 PLUVIALES



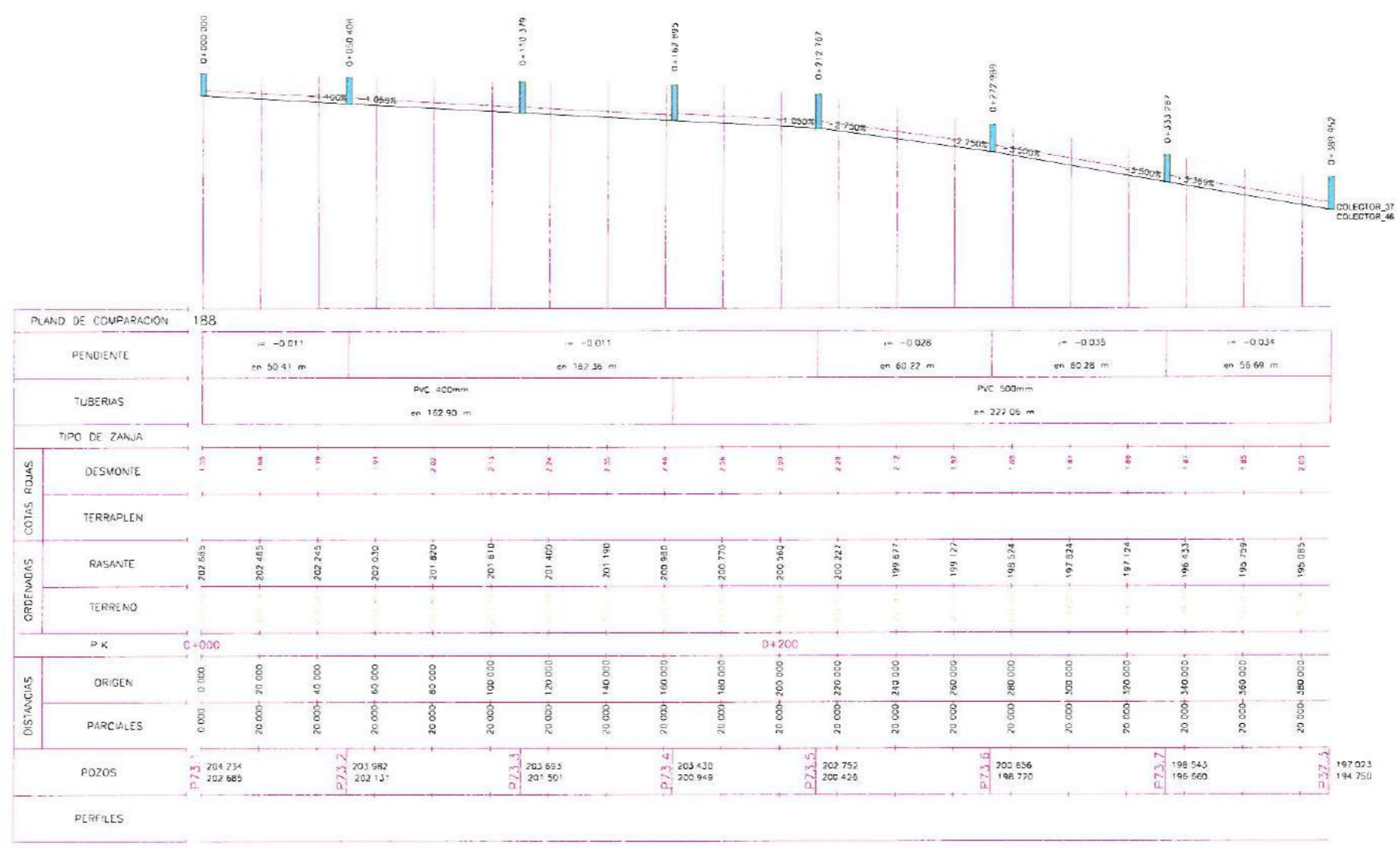
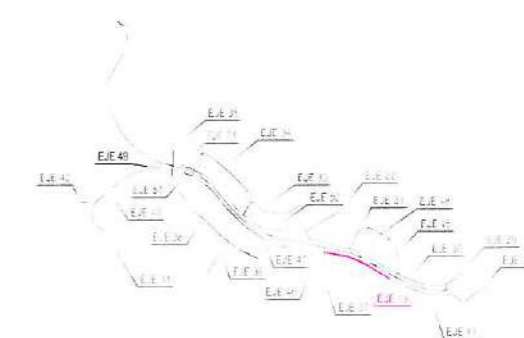
EJE 50
COLECTOR 50 PLUVIALES



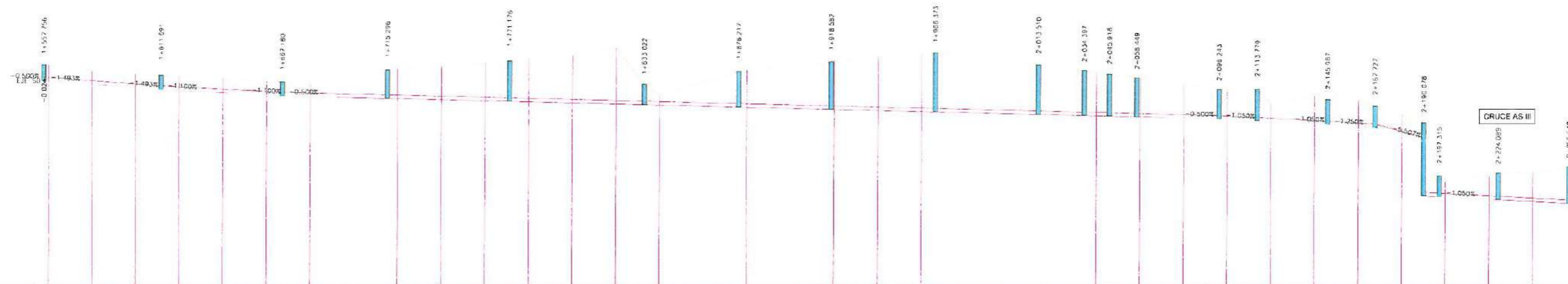
EJE 51
COLECTOR 51 PLUVIALES



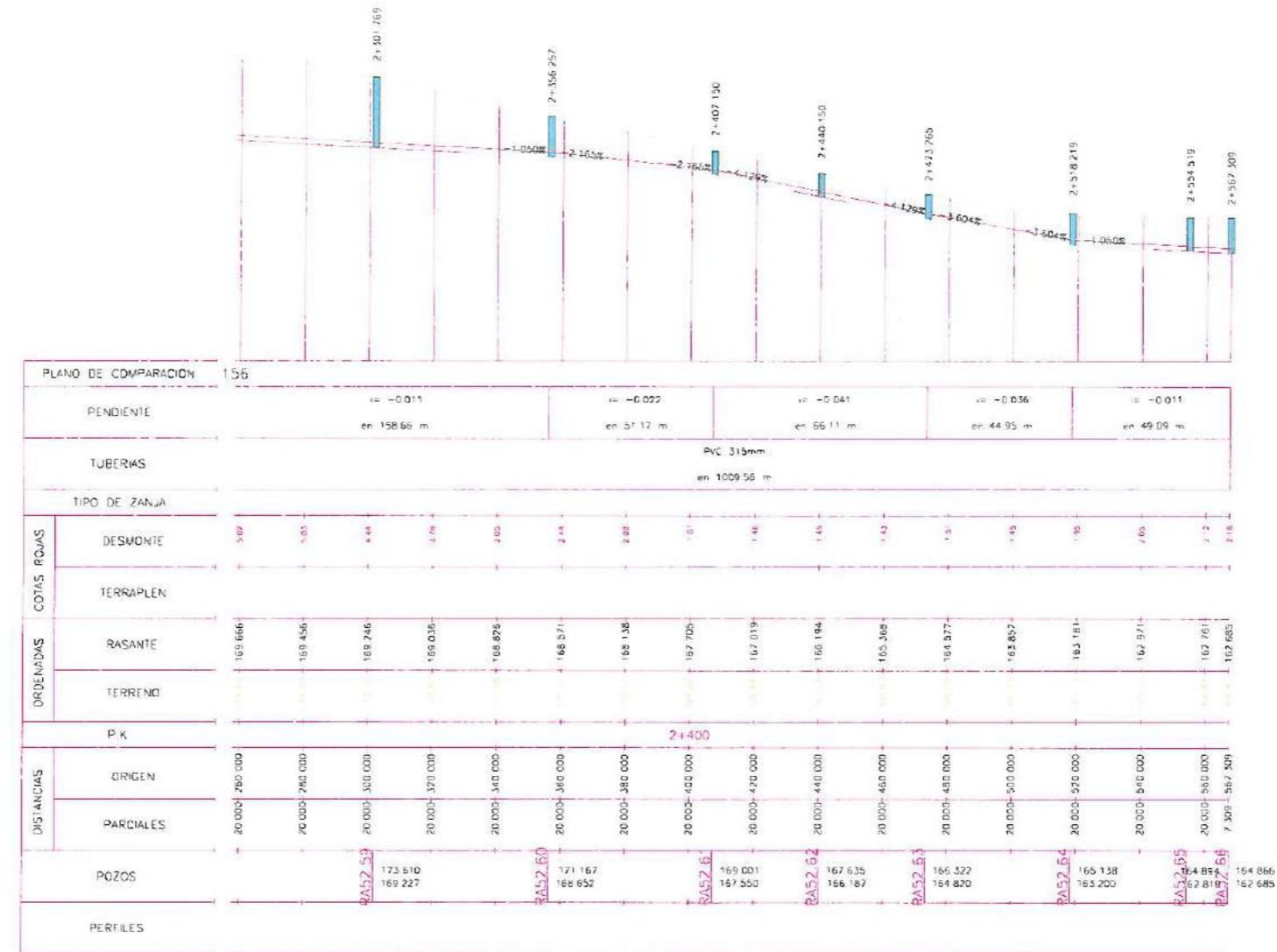
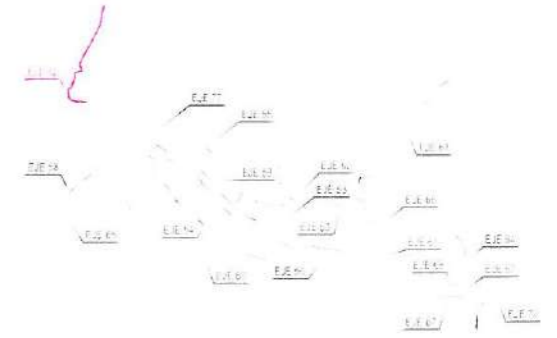
EJE 71
COLECTOR 71 PLUVIALES

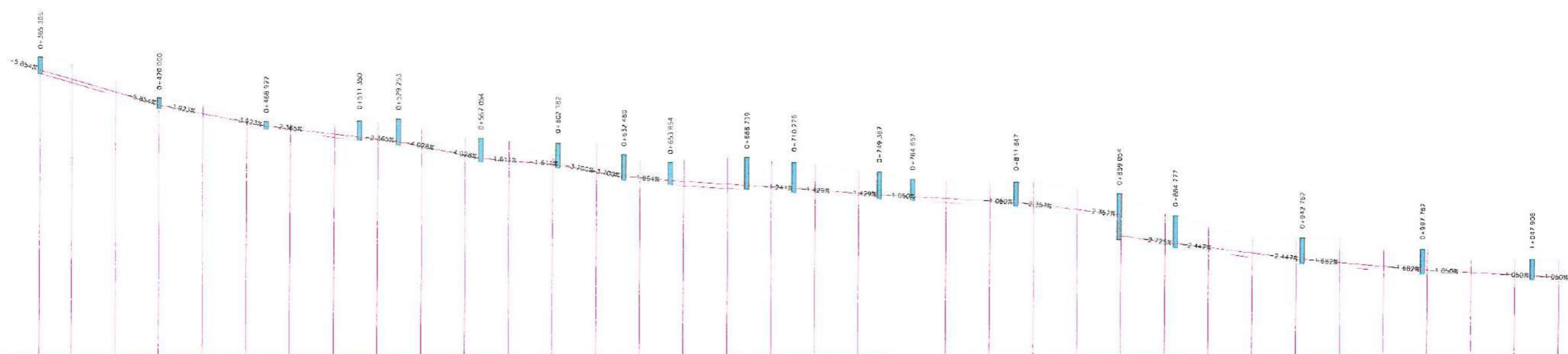


EJE 73
COLECTOR 73 PLUVIALES

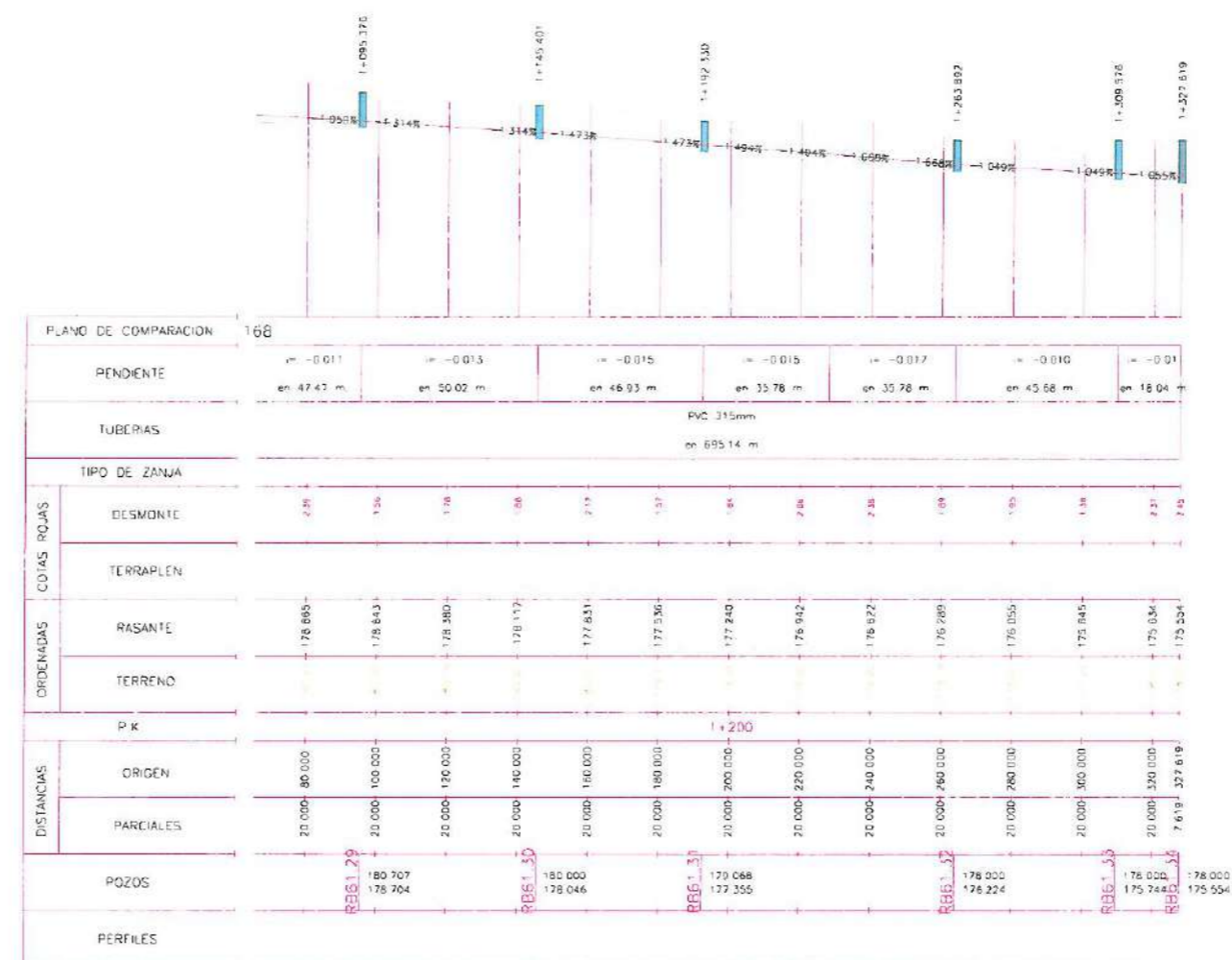


EJE 52
COLECTOR 52 FECALES

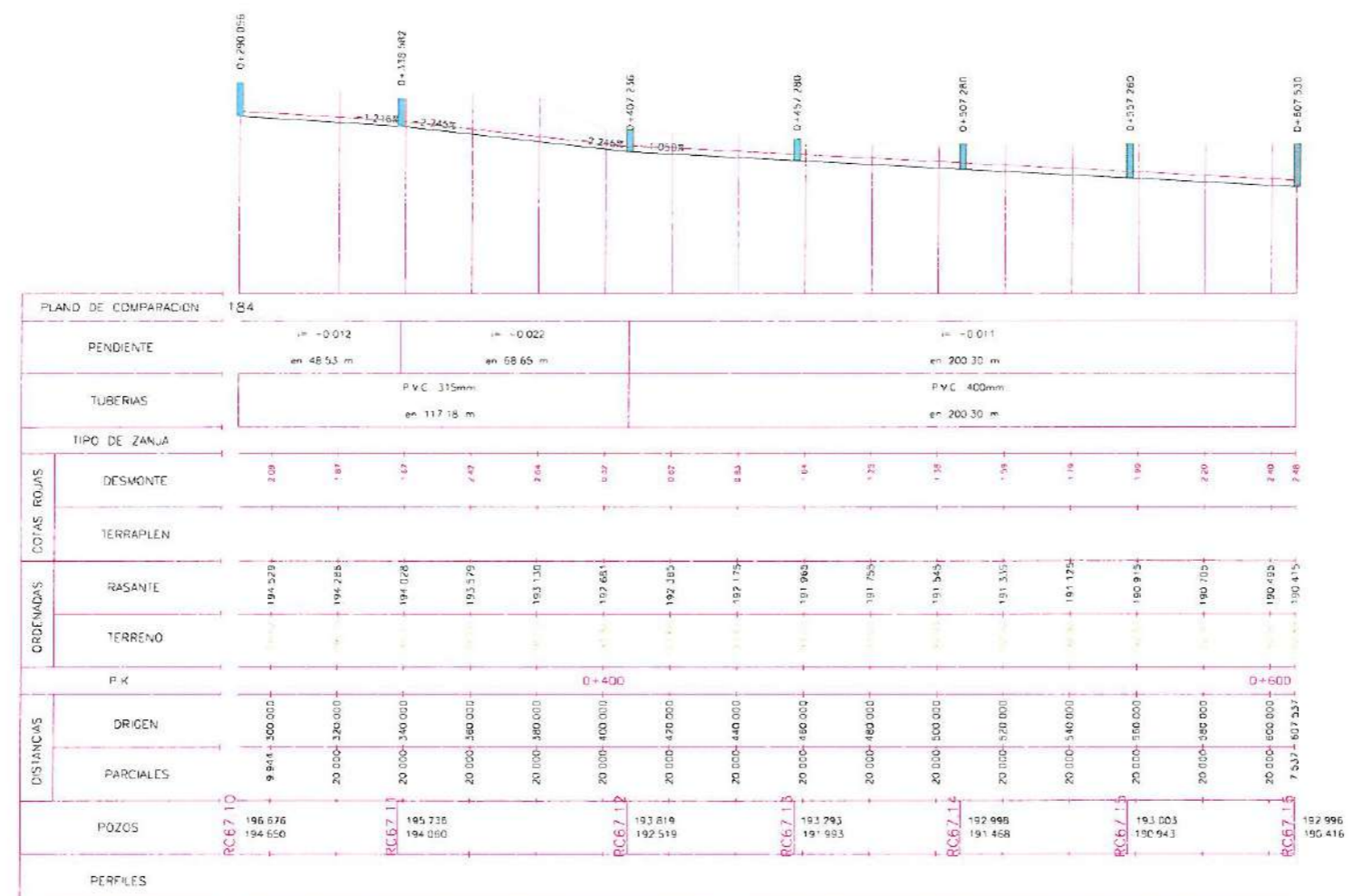
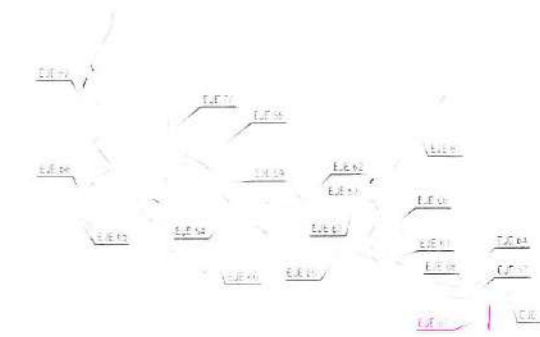




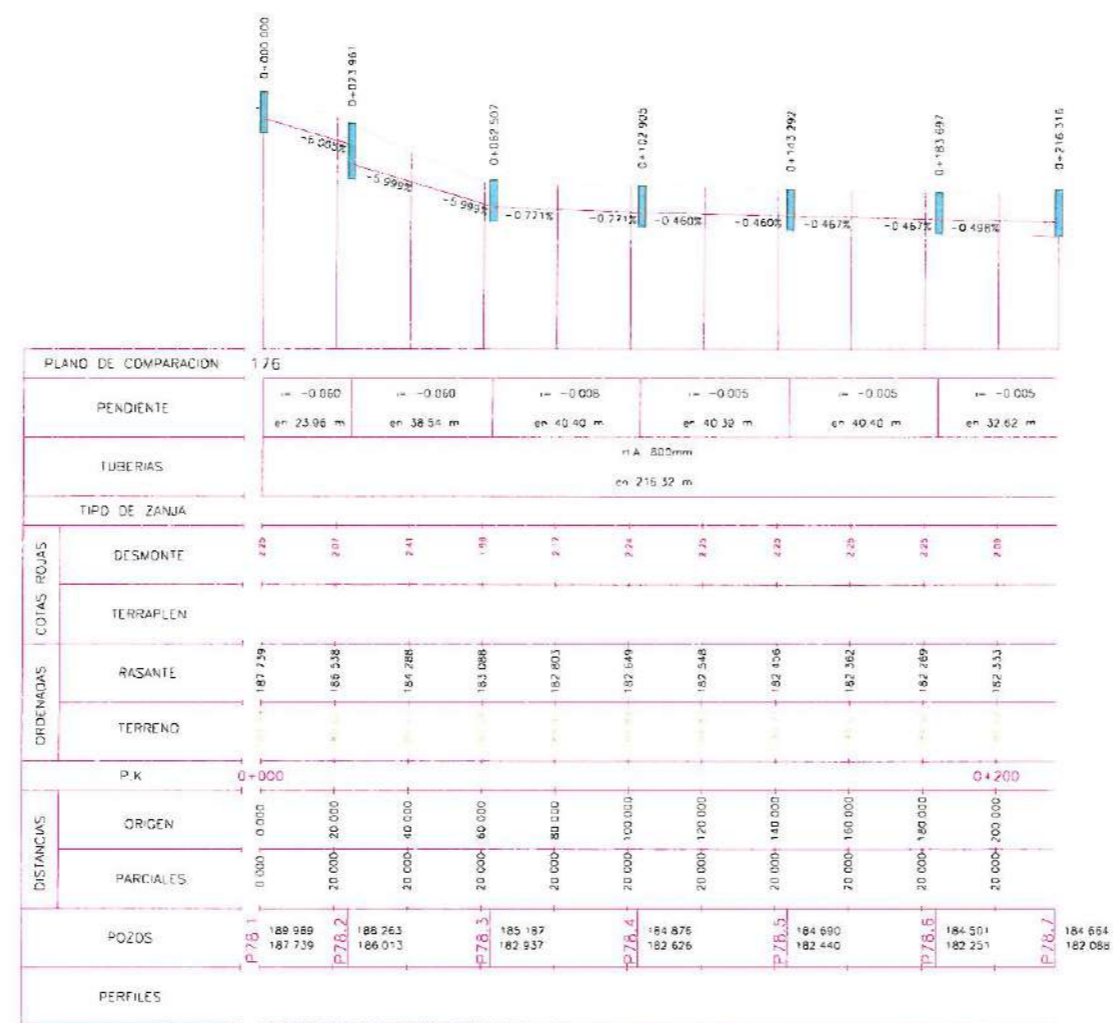
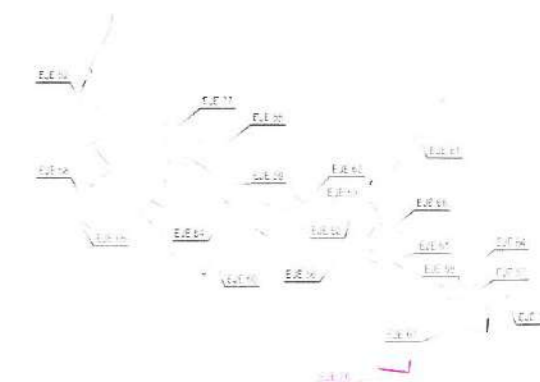
EJE 61
COLECTOR 61 FECALES



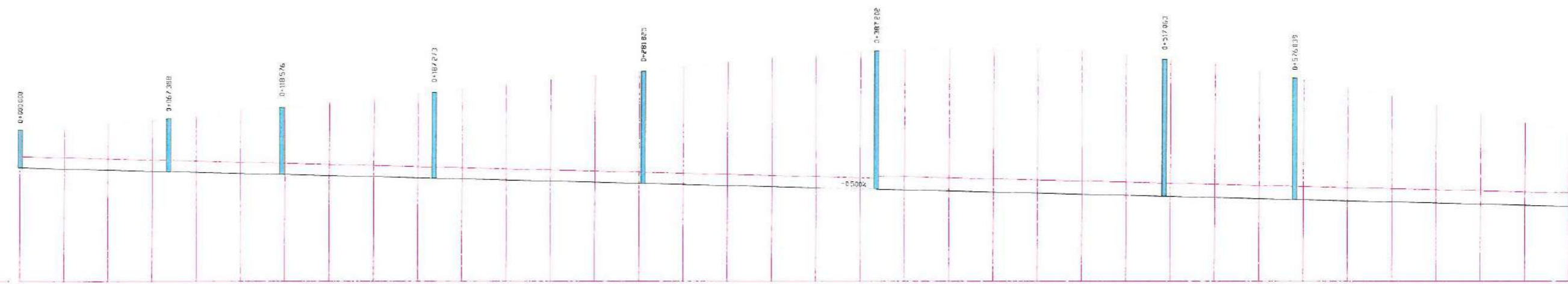
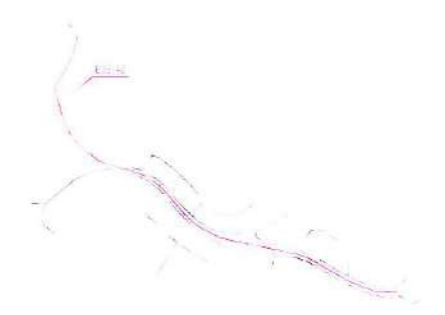
EJE 61
COLECTOR 61 FECALES



EJE 67
COLECTOR 67 FECALES

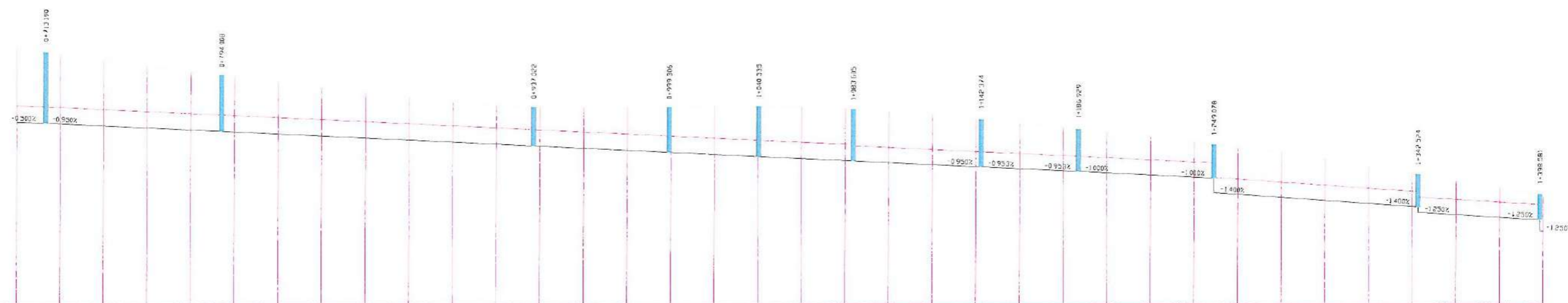
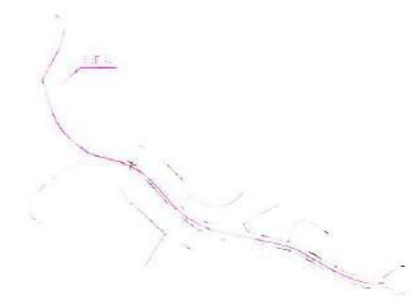


EJE 78
COLECTOR 78 FECALES



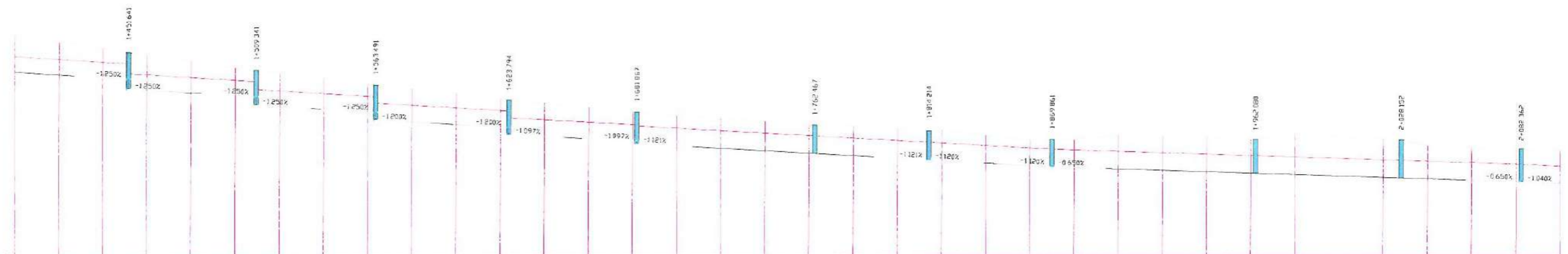
| | | | |
|----------------------|-----------|--|--|
| PLANO DE COMPARACION | | 1B4 | |
| PENDIENTE | | -0.000 | |
| TUBERIAS | | HA 1000 m en 387.20 m | |
| TIPO DE ZANJA | | HA 1200 m en 325.99 m | |
| COTAS ROJAS | DESMONTE | 3.41, 3.81, 4.16, 4.61, 5.12, 5.62, 6.32, 6.62, 7.10, 7.59, 8.11, 8.62, 9.16, 9.62, 10.07, 10.61, 11.13, 11.61, 12.04, 12.51, 12.62, 13.06, 13.22, 13.46, 13.79, 14.09, 14.36, 14.61, 14.84, 15.12, 15.43, 15.88 | |
| | TERRAPLEN | | |
| ORDENADAS | RASANTE | 194.768, 194.168, 194.068, 193.568, 193.868, 193.768, 193.568, 193.568, 193.468, 193.368, 193.268, 193.168, 193.068, 192.968, 192.868, 192.768, 192.668, 192.568, 192.468, 192.368, 192.268, 192.168, 192.068, 191.968, 191.868, 191.768, 191.668, 191.568, 191.468, 191.368, 191.268, 191.168, 191.068, 190.968, 190.868, 190.768 | |
| | TERRENO | | |
| PK | | 0+000, 0+200, 0+400, 0+600 | |
| DISTANCIAS | ORIGEN | 0.000, 20.000, 40.000, 60.000, 80.000, 100.000, 120.000, 140.000, 160.000, 180.000, 200.000, 220.000, 240.000, 260.000, 280.000, 300.000, 320.000, 340.000, 360.000, 380.000, 400.000, 420.000, 440.000, 460.000, 480.000, 500.000, 520.000, 540.000, 560.000, 580.000, 600.000, 620.000, 640.000, 660.000, 680.000, 700.000 | |
| | PARCIALES | 0.000, 20.000, 40.000, 60.000, 80.000, 100.000, 120.000, 140.000, 160.000, 180.000, 200.000, 220.000, 240.000, 260.000, 280.000, 300.000, 320.000, 340.000, 360.000, 380.000, 400.000, 420.000, 440.000, 460.000, 480.000, 500.000, 520.000, 540.000, 560.000, 580.000, 600.000, 620.000, 640.000, 660.000, 680.000, 700.000 | |
| POZOS | | P11 197.675 194.268, P12 198.689 193.931, P13 199.700 193.675, P14 201.079 193.332, P15 202.967 192.859, P16 204.798 192.338, P17 204.049 191.682, P18 202.249 191.388 | |
| PERFILES | | | |

EJE 42
COLECTOR DE MEDIANA



| PLANO DE COMPARACION | | 174 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------------|---------|---------------------------|---------|---------|---------|--------------------------|---------|--------------------------|---------|---------------------------|---------|--------------------------|---------|--------------------------|---------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---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| PENDIENTE | | i = -0.003 en 713.19 m | | i = -0.009 en 429.12 m | | | | i = -0.010 en 44.37 m | | i = -0.010 en 62.14 m | | i = -2.33625 en 0.01 m | | i = -0.014 en 92.44 m | | i = -0.013 en 36.06 m | | i = -0.013 en 107.52 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TUBERIAS | | HA 1400 mm en 850.30 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIPO DE ZANJA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COTAS ROJAS | DESMONTE | 5.82 | 6.38 | 5.99 | 5.89 | 5.37 | 5.16 | 4.74 | 4.43 | 4.12 | 3.87 | 3.69 | 3.60 | 3.39 | 3.77 | 4.43 | 4.69 | 4.76 | 4.74 | 4.73 | 4.63 | 4.30 | 4.17 | 3.95 | 3.73 | 3.55 | 3.24 | 3.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TERRAPLEN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ORDENADAS | RASANTE | 190.768 | 190.637 | 190.447 | 190.257 | 190.067 | 189.877 | 189.687 | 189.497 | 189.307 | 189.117 | 188.927 | 188.737 | 188.547 | 188.357 | 188.167 | 187.977 | 187.787 | 187.597 | 187.407 | 187.217 | 187.027 | 186.837 | 186.647 | 186.457 | 186.266 | 186.069 | 185.869 | 185.669 | 185.469 | 185.267 | 185.067 | 184.867 | 184.667 | 184.467 | 184.267 | 184.067 | 183.867 | 183.667 | 183.467 | 183.267 | 183.067 | 182.867 | 182.667 | 182.467 | 182.267 | 182.067 | 181.867 | 181.667 | 181.467 | 181.267 | 181.067 | 180.867 | 180.667 | 180.467 | 180.267 | 180.067 | 179.867 | 179.667 | 179.467 | 179.267 | 179.067 | 178.867 | 178.667 | 178.467 | 178.267 | 178.067 | 177.867 | 177.667 | 177.467 | 177.267 | 177.067 | 176.867 | 176.667 | 176.467 | 176.267 | 176.067 | 175.867 | 175.667 | 175.467 | 175.267 | 175.067 | 174.867 | 174.667 | 174.467 | 174.267 | 174.067 | 173.867 | 173.667 | 173.467 | 173.267 | 173.067 | 172.867 | 172.667 | 172.467 | 172.267 | 172.067 | 171.867 | 171.667 | 171.467 | 171.267 | 171.067 | 170.867 | 170.667 | 170.467 | 170.267 | 170.067 | 169.867 | 169.667 | 169.467 | 169.267 | 169.067 | 168.867 | 168.667 | 168.467 | 168.267 | 168.067 | 167.867 | 167.667 | 167.467 | 167.267 | 167.067 | 166.867 | 166.667 | 166.467 | 166.267 | 166.067 | 165.867 | 165.667 | 165.467 | 165.267 | 165.067 | 164.867 | 164.667 | 164.467 | 164.267 | 164.067 | 163.867 | 163.667 | 163.467 | 163.267 | 163.067 | 162.867 | 162.667 | 162.467 | 162.267 | 162.067 | 161.867 | 161.667 | 161.467 | 161.267 | 161.067 | 160.867 | 160.667 | 160.467 | 160.267 | 160.067 | 159.867 | 159.667 | 159.467 | 159.267 | 159.067 | 158.867 | 158.667 | 158.467 | 158.267 | 158.067 | 157.867 | 157.667 | 157.467 | 157.267 | 157.067 | 156.867 | 156.667 | 156.467 | 156.267 | 156.067 | 155.867 | 155.667 | 155.467 | 155.267 | 155.067 | 154.867 | 154.667 | 154.467 | 154.267 | 154.067 | 153.867 | 153.667 | 153.467 | 153.267 | 153.067 | 152.867 | 152.667 | 152.467 | 152.267 | 152.067 | 151.867 | 151.667 | 151.467 | 151.267 | 151.067 | 150.867 | 150.667 | 150.467 | 150.267 | 150.067 | 149.867 | 149.667 | 149.467 | 149.267 | 149.067 | 148.867 | 148.667 | 148.467 | 148.267 | 148.067 | 147.867 | 147.667 | 147.467 | 147.267 | 147.067 | 146.867 | 146.667 | 146.467 | 146.267 | 146.067 | 145.867 | 145.667 | 145.467 | 145.267 | 145.067 | 144.867 | 144.667 | 144.467 | 144.267 | 144.067 | 143.867 | 143.667 | 143.467 | 143.267 | 143.067 | 142.867 | 142.667 | 142.467 | 142.267 | 142.067 | 141.867 | 141.667 | 141.467 | 141.267 | 141.067 | 140.867 | 140.667 | 140.467 | 140.267 | 140.067 | 139.867 | 139.667 | 139.467 | 139.267 | 139.067 | 138.867 | 138.667 | 138.467 | 138.267 | 138.067 | 137.867 | 137.667 | 137.467 | 137.267 | 137.067 | 136.867 | 136.667 | 136.467 | 136.267 | 136.067 | 135.867 | 135.667 | 135.467 | 135.267 | 135.067 | 134.867 | 134.667 | 134.467 | 134.267 | 134.067 | 133.867 | 133.667 | 133.467 | 133.267 | 133.067 | 132.867 | 132.667 | 132.467 | 132.267 | 132.067 | 131.867 | 131.667 | 131.467 | 131.267 | 131.067 | 130.867 | 130.667 | 130.467 | 130.267 | 130.067 | 129.867 | 129.667 | 129.467 | 129.267 | 129.067 | 128.867 | 128.667 | 128.467 | 128.267 | 128.067 | 127.867 | 127.667 | 127.467 | 127.267 | 127.067 | 126.867 | 126.667 | 126.467 | 126.267 | 126.067 | 125.867 | 125.667 | 125.467 | 125.267 | 125.067 | 124.867 | 124.667 | 124.467 | 124.267 | 124.067 | 123.867 | 123.667 | 123.467 | 123.267 | 123.067 | 122.867 | 122.667 | 122.467 | 122.267 | 122.067 | 121.867 | 121.667 | 121.467 | 121.267 | 121.067 | 120.867 | 120.667 | 120.467 | 120.267 | 120.067 | 119.867 | 119.667 | 119.467 | 119.267 | 119.067 | 118.867 | 118.667 | 118.467 | 118.267 | 118.067 | 117.867 | 117.667 | 117.467 | 117.267 | 117.067 | 116.867 | 116.667 | 116.467 | 116.267 | 116.067 | 115.867 | 115.667 | 115.467 | 115.267 | 115.067 | 114.867 | 114.667 | 114.467 | 114.267 | 114.067 | 113.867 | 113.667 | 113.467 | 113.267 | 113.067 | 112.867 | 112.667 | 112.467 | 112.267 | 112.067 | 111.867 | 111.667 | 111.467 | 111.267 | 111.067 | 110.867 | 110.667 | 110.467 | 110.267 | 110.067 | 109.867 | 109.667 | 109.467 | 109.267 | 109.067 | 108.867 | 108.667 | 108.467 | 108.267 | 108.067 | 107.867 | 107.667 | 107.467 | 107.267 | 107.067 | 106.867 | 106.667 | 106.467 | 106.267 | 106.067 | 105.867 | 105.667 | 105.467 | 105.267 | 105.067 | 104.867 | 104.667 | 104.467 | 104.267 | 104.067 | 103.867 | 103.667 | 103.467 | 103.267 | 103.067 | 102.867 | 102.667 | 102.467 | 102.267 | 102.067 | 101.867 | 101.667 | 101.467 | 101.267 | 101.067 | 100.867 | 100.667 | 100.467 | 100.267 | 100.067 | 99.867 | 99.667 | 99.467 | 99.267 | 99.067 | 98.867 | 98.667 | 98.467 | 98.267 | 98.067 | 97.867 | 97.667 | 97.467 | 97.267 | 97.067 | 96.867 | 96.667 | 96.467 | 96.267 | 96.067 | 95.867 | 95.667 | 95.467 | 95.267 | 95.067 | 94.867 | 94.667 | 94.467 | 94.267 | 94.067 | 93.867 | 93.667 | 93.467 | 93.267 | 93.067 | 92.867 | 92.667 | 92.467 | 92.267 | 92.067 | 91.867 | 91.667 | 91.467 | 91.267 | 91.067 | 90.867 | 90.667 | 90.467 | 90.267 | 90.067 | 89.867 | 89.667 | 89.467 | 89.267 | 89.067 | 88.867 | 88.667 | 88.467 | 88.267 | 88.067 | 87.867 | 87.667 | 87.467 | 87.267 | 87.067 | 86.867 | 86.667 | 86.467 | 86.267 | 86.067 | 85.867 | 85.667 | 85.467 | 85.267 | 85.067 | 84.867 | 84.667 | 84.467 | 84.267 | 84.067 | 83.867 | 83.667 | 83.467 | 83.267 | 83.067 | 82.867 | 82.667 | 82.467 | 82.267 | 82.067 | 81.867 | 81.667 | 81.467 | 81.267 | 81.067 | 80.867 | 80.667 | 80.467 | 80.267 | 80.067 | 79.867 | 79.667 | 79.467 | 79.267 | 79.067 | 78.867 | 78.667 | 78.467 | 78.267 | 78.067 | 77.867 | 77.667 | 77.467 | 77.267 | 77.067 | 76.867 | 76.667 | 76.467 | 76.267 | 76.067 | 75.867 | 75.667 | 75.467 | 75.267 | 75.067 | 74.867 | 74.667 | 74.467 | 74.267 | 74.067 | 73.867 | 73.667 | 73.467 | 73.267 | 73.067 | 72.867 | 72.667 | 72.467 | 72.267 | 72.067 | 71.867 | 71.667 | 71.467 | 71.267 | 71.067 | 70.867 | 70.667 | 70.467 | 70.267 | 70.067 | 69.867 | 69.667 | 69.467 | 69.267 | 69.067 | 68.867 | 68.667 | 68.467 | 68.267 | 68.067 | 67.867 | 67.667 | 67.467 | 67.267 | 67.067 | 66.867 | 66.667 | 66.467 | 66.267 | 66.067 | 65.867 | 65.667 | 65.467 | 65.267 | 65.067 | 64.867 | 64.667 | 64.467 | 64.267 | 64.067 | 63.867 | 63.667 | 63.467 | 63.267 | 63.067 | 62.867 | 62.667 | 62.467 | 62.267 | 62.067 | 61.867 | 61.667 | 61.467 | 61.267 | 61.067 | 60.867 | 60.667 | 60.467 | 60.267 | 60.067 | 59.867 | 59.667 | 59.467 | 59.267 | 59.067 | 58.867 | 58.667 | 58.467 | 58.267 | 58.067 | 57.867 | 57.667 | 57.467 | 57.267 | 57.067 | 56.867 | 56.667 | 56.467 | 56.267 | 56.067 | 55.867 | 55.667 | 55.467 | 55.267 | 55.067 | 54.867 | 54.667 | 54.467 | 54.267 | 54.067 | 53.867 | 53.667 | 53.467 | 53.267 | 53.067 | 52.867 | 52.667 | 52.467 | 52.267 | 52.067 | 51.867 | 51.667 | 51.467 | 51.267 | 51.067 | 50.867 | 50.667 | 50.467 | 50.267 | 50.067 | 49.867 | 49.667 | 49.467 | 49.267 | 49.067 | 48.867 | 48.667 | 48.467 | 48.267 | 48.067 | 47.867 | 47.667 | 47.467 | 47.267 | 47.067 | 46.867 | 46.667 | 46.467 | 46.267 | 46.067 | 45.867 | 45.667 | 45.467 | 45.267 | 45.067 | 44.867 | 44.667 | 44.467 | 44.267 | 44.067 | 43.867 | 43.667 | 43.467 | 43.267 | 43.067 | 42.867 | 42.667 | 42.467 | 42.267 | 42.067 | 41.867 | 41.667 | 41.467 | 41.267 | 41.067 | 40.867 | 40.667 | 40.467 | 40.267 | 40.067 | 39.867 | 39.667 | 39.467 | 39.267 | 39.067 | 38.867 | 38.667 | 38.467 | 38.267 | 38.067 | 37.867 | 37.667 | 37.467 | 37.267 | 37.067 | 36.867 | 36.667 | 36.467 | 36.267 | 36.067 | 35.867 | 35.667 | 35.467 | 35.267 | 35.067 | 34.867 | 34.667 | 34.467 | 34.267 | 34.067 | 33.867 | 33.667 | 33.467 | 33.267 | 33.067 | 32.867 | 32.667 | 32.467 | 32.267 | 32.067 | 31.867 | 31.667 | 31.467 | 31.267 | 31.067 | 30.867 | 30.667 | 30.467 | 30.267 | 30.067 | 29.867 | 29.667 | 29.467 | 29.267 | 29.067 | 28.867 | 28.667 | 28.467 | 28.267 | 28.067 | 27.867 | 27.667 | 27.467 | 27.267 | 27.067 | 26.867 | 26.667 | 26.467 | 26.267 | 26.067 | 25.867 | 25.667 | 25.467 | 25.267 | 25.067 | 24.867 | 24.667 | 24.467 | 24.267 | 24.067 | 23.867 | 23.667 | 23.467 | 23.267 | 23.067 | 22.867 | 22.667 | 22.467 | 22.267 | 22.067 | 21.867 | 21.667 | 21.467 | 21.267 | 21.067 | 20.867 | 20.667 | 20.467 | 20.267 | 20.067 | 19.867 | 19.667 | 19.467 | 19.267 | 19.067 | 18.867 | 18.667 | 18.467 | 18.267 | 18.067 | 17.867 | 17.667 | 17.467 | 17.267 | 17.067 | 16.867 | 16.667 | 16.467 | 16.267 | 16.067 | 15.867 | 15.667 | 15.467 | 15.267 | 15.067 | 14.867 | 14.667 | 14.467 | 14.267 | 14.067 | 13.867 | 13.667 | 13.467 | 13.267 | 13.067 | 12.867 | 12.667 | 12.467 | 12.267 | 12.067 | 11.867 | 11.667 | 11.467 | 11.267 | 11.067 | 10.867 | 10.667 | 10.467 | 10.267 | 10.067 | 9.867 | 9.667 | 9.467 | 9.267 | 9.067 | 8.867 | 8.667 | 8.467 | 8.267 | 8.067 | 7.867 | 7.667 | 7.467 | 7.267 | 7.067 | 6.867 | 6.667 | 6.467 | 6.267 | 6.067 | 5.867 | 5.667 | 5.467 | 5.267 | 5.067 | 4.867 | 4.667 | 4.467 | 4.267 | 4.067 | 3.867 | 3.667 | 3.467 | 3.267 | 3.067 | 2.867 | 2.667 | 2.467 | 2.267 | 2.067 | 1.867 | 1.667 | 1.467 | 1.267 | 1.067 | 0.867 | 0.667 | 0.467 | 0.267 | 0.067 | -0.167 | -0.367 | -0.567 | -0.767 | -0.967 | -1.167 | -1.367 | -1.567 | -1.767 | -1.967 | -2.167 | -2.367 | -2.567 | -2.767 | -2.967 | -3.167 | -3.367 | -3.567 | -3.767 | -3.967 | -4.167 | -4.367 | -4.567 | -4.767 | -4.967 | -5.167 | -5.367 | -5.567 | -5.767 | -5.967 | -6.167 | -6.367 | -6.567 | -6.767 | -6.967 | -7.167 | -7.367 | -7.567 | -7.767 | -7.967 | -8.167 | -8.367 | -8.567 | -8.767 | -8.967 | -9.167 | -9.367 | -9.567 | -9.767 | -9.967 | -10.167 | -10.367 | -10.567 | -10.767 | -10.967 | -11.167 | -11.367 | -11.567 | -11.767 | -11.967 | -12.167 | -12.367 | -12.567 | -12.767 | -12.967 | -13.167 | -13.367 | -13.567 | -13.767 | -13.967 | -14 |

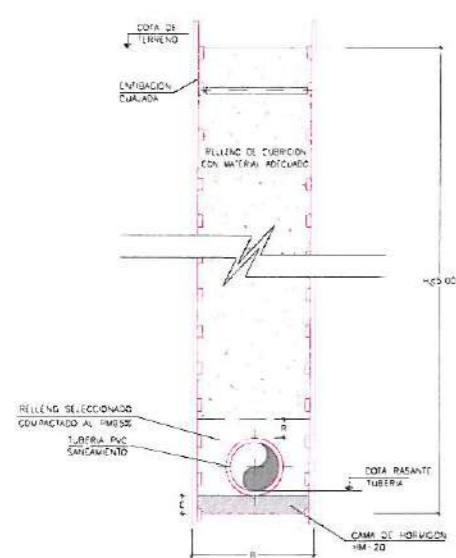
EJE 42
COLECTOR DE MEDIANA



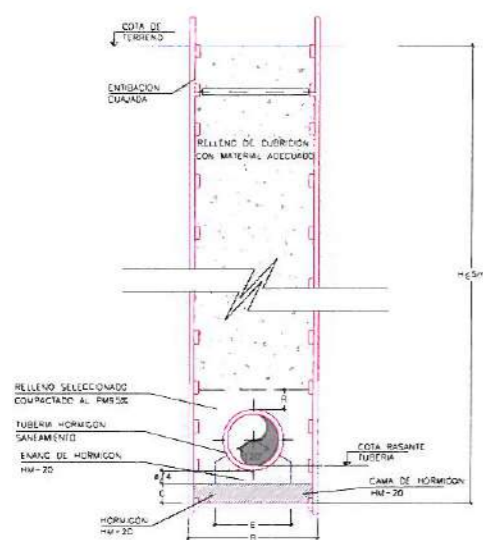
EJE 42
COLECTOR DE MEDIANA

EJE 42

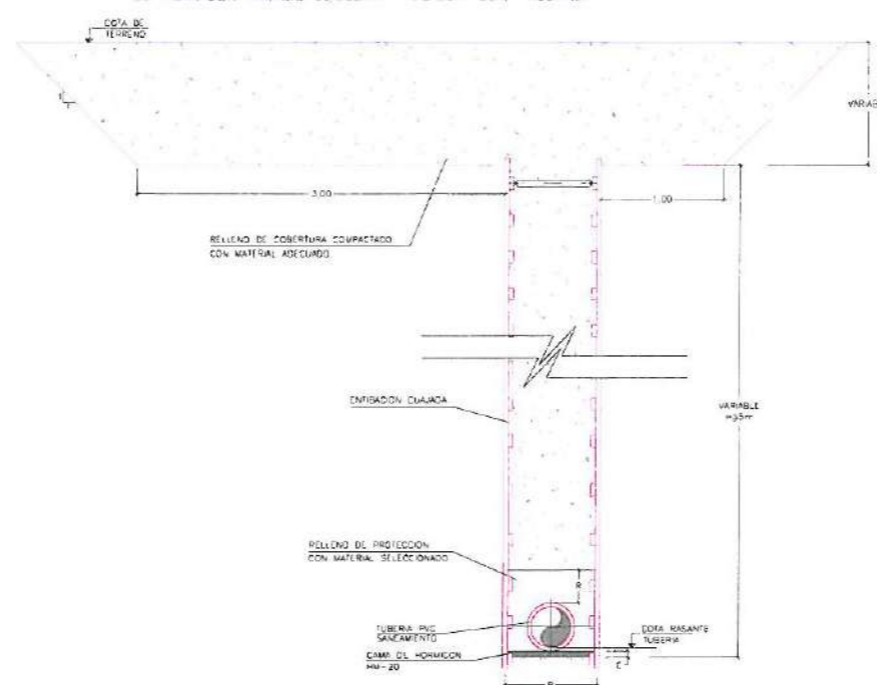
SECCION TIPO III
ZANJA DE SANEAMIENTO PARA TUBERIAS DE HORMIGON ARMADO $\phi \geq 500\text{mm}$ EN $H \leq 5.00\text{m}$ SIN PREZANJA



SECCION TIPO III
ZANJA DE SANEAMIENTO PARA TUBERIAS DE HORMIGON ARMADO $\phi \geq 500\text{mm}$ EN $H \leq 5.00\text{m}$ SIN PREZANJA



SECCION TIPO IV
ZANJA DE SANEAMIENTO PARA TUBERIAS DE HORMIGON ARMADO $\phi \geq 500\text{mm}$ EN $H \leq 5.00\text{m}$ CON PREZANJA



SECCION TIPO IV
ZANJA DE SANEAMIENTO PARA TUBERIAS DE HORMIGON ARMADO $\phi \geq 500\text{mm}$ EN $H \leq 5.00\text{m}$ CON PREZANJA

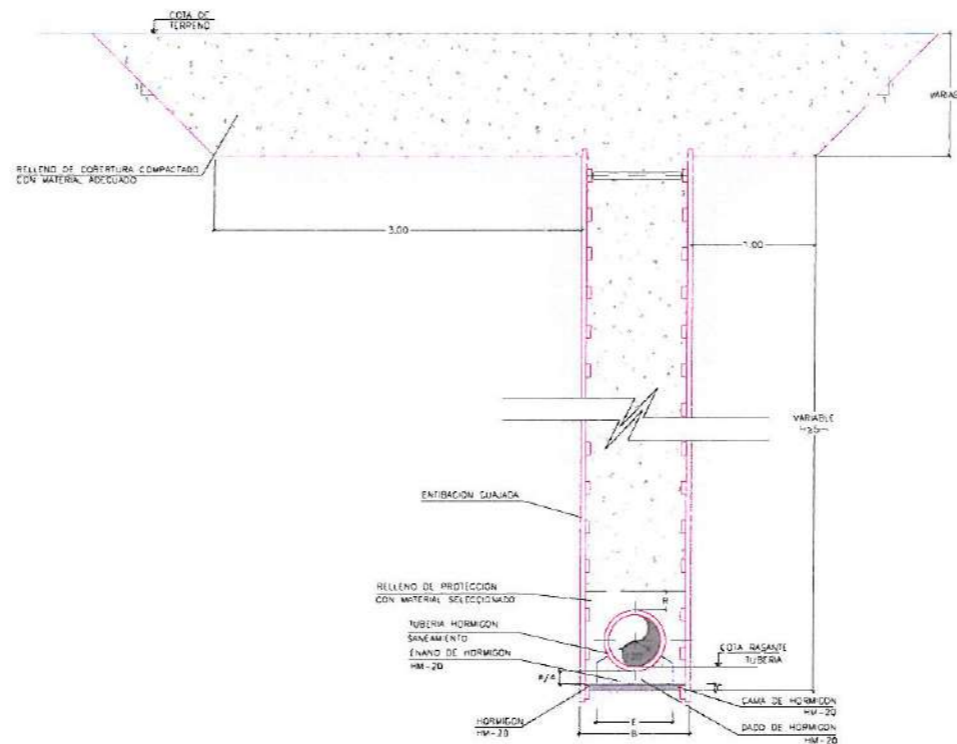
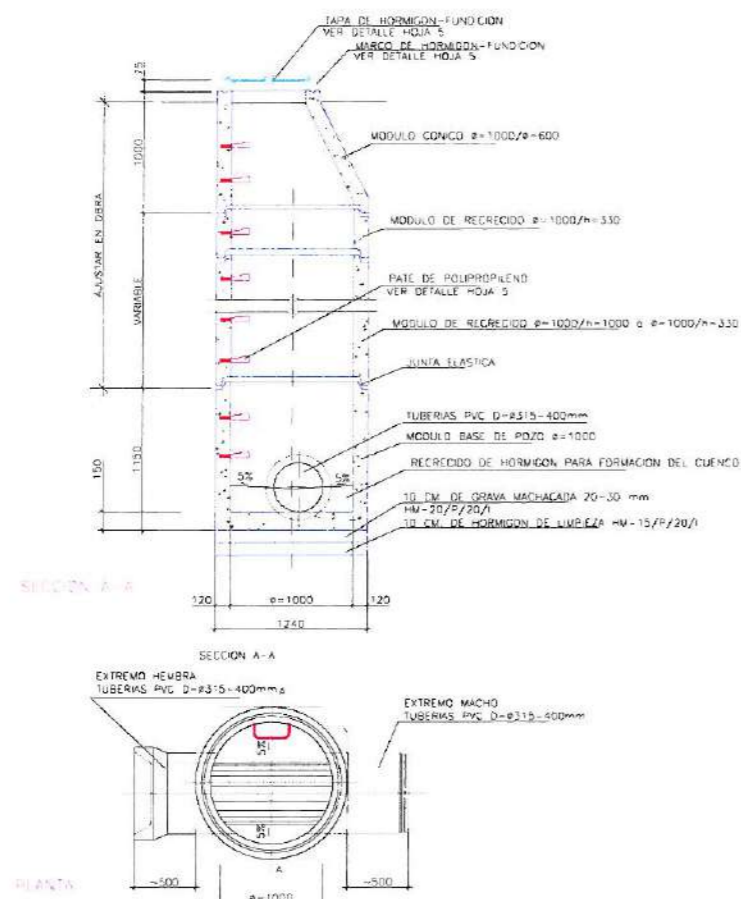


TABLA DE DIMENSIONES $\phi \geq 600$

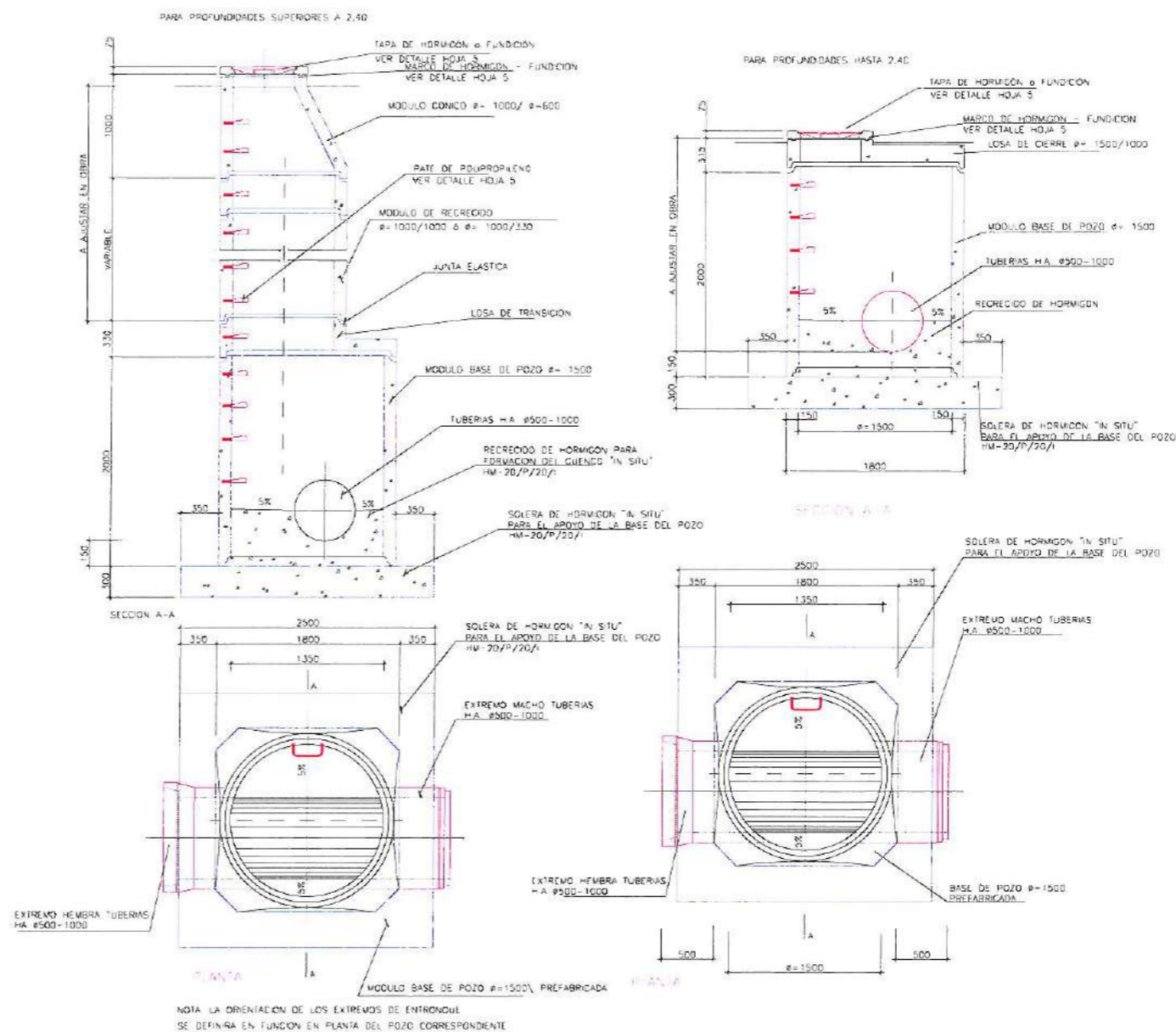
| | ϕ (mm) | B(m) | C(m) | R(m) | E(m) |
|---|-------------|------|------|------|------|
| HA- ENCHUFE CAMPAÑA JUNTA GOMA | 400 | 1.20 | 0.20 | 0.30 | 0.85 |
| | 500 | 1.40 | 0.20 | 0.30 | 0.80 |
| | 600 | 1.50 | 0.20 | 0.30 | 0.95 |
| | 700 | 1.70 | 0.23 | 0.30 | 1.00 |
| | 800 | 1.80 | 0.25 | 0.30 | 1.20 |
| | 900 | 1.90 | 0.25 | 0.30 | 1.40 |
| | 1000 | 2.00 | 0.30 | 0.30 | 1.45 |
| | 1200 | 2.30 | 0.35 | 0.30 | 1.70 |
| | 1400 | 2.50 | 0.35 | 0.30 | 2.10 |
| | 1500 | 2.80 | 0.35 | 0.30 | 2.25 |
| | 1600 | 2.90 | 0.40 | 0.30 | 2.40 |

| HORMIGON TIPO | f_{ck} (N/mm ²) | ELEMENTO | RECUBRIMIENTOS |
|-------------------|-------------------------------|--------------------|----------------|
| HM-20/B/25/I | 20 | CAPA DE NIVELACION | — |
| HA-30/B/20/IIa-Qb | 30 | PILOTES | 7.0cm |
| HA-30/B/20/IIa-Qb | 30 | ESTRIBOS | 3.0cm |
| HA-30/B/20/IIa-Qb | 30 | ENCEPADOS Y PILAS | 3.0cm |

POZO DE REGRUPO PREFABRICADO DE DIAMETRO 1000
PARA COLECTORES DE 400mm A 600mm
ESCALA 1/30
Cotas en mm

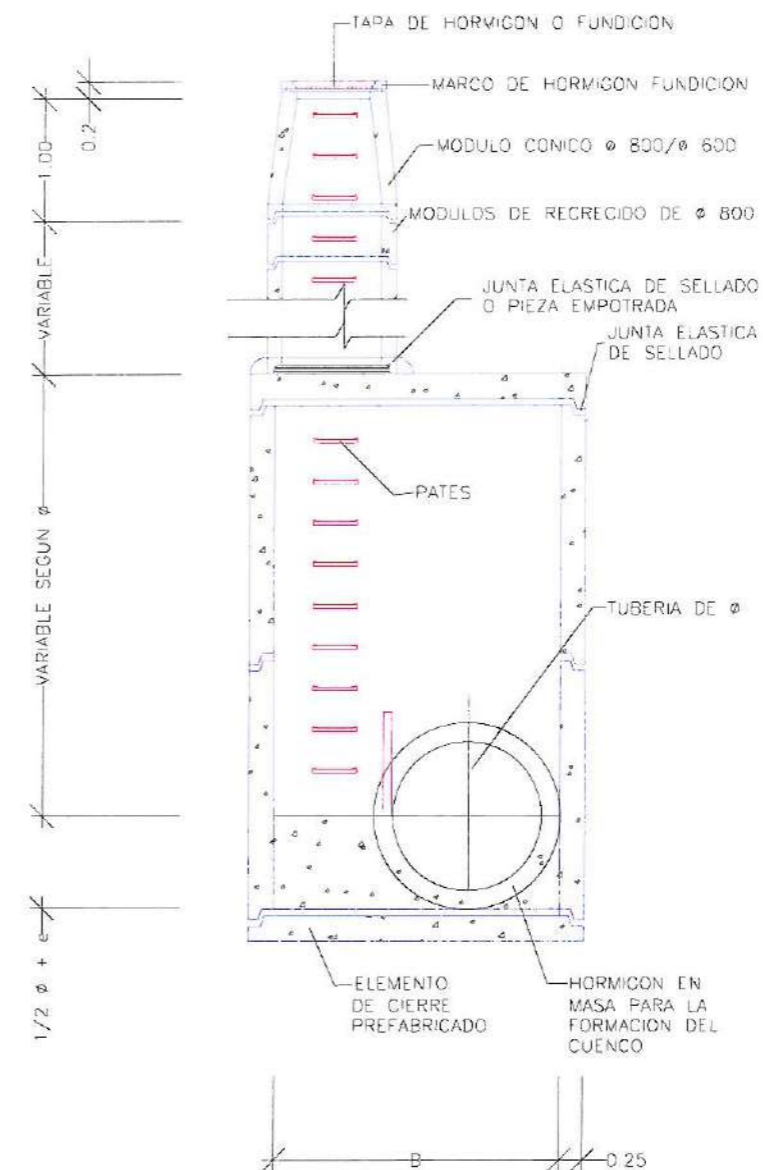
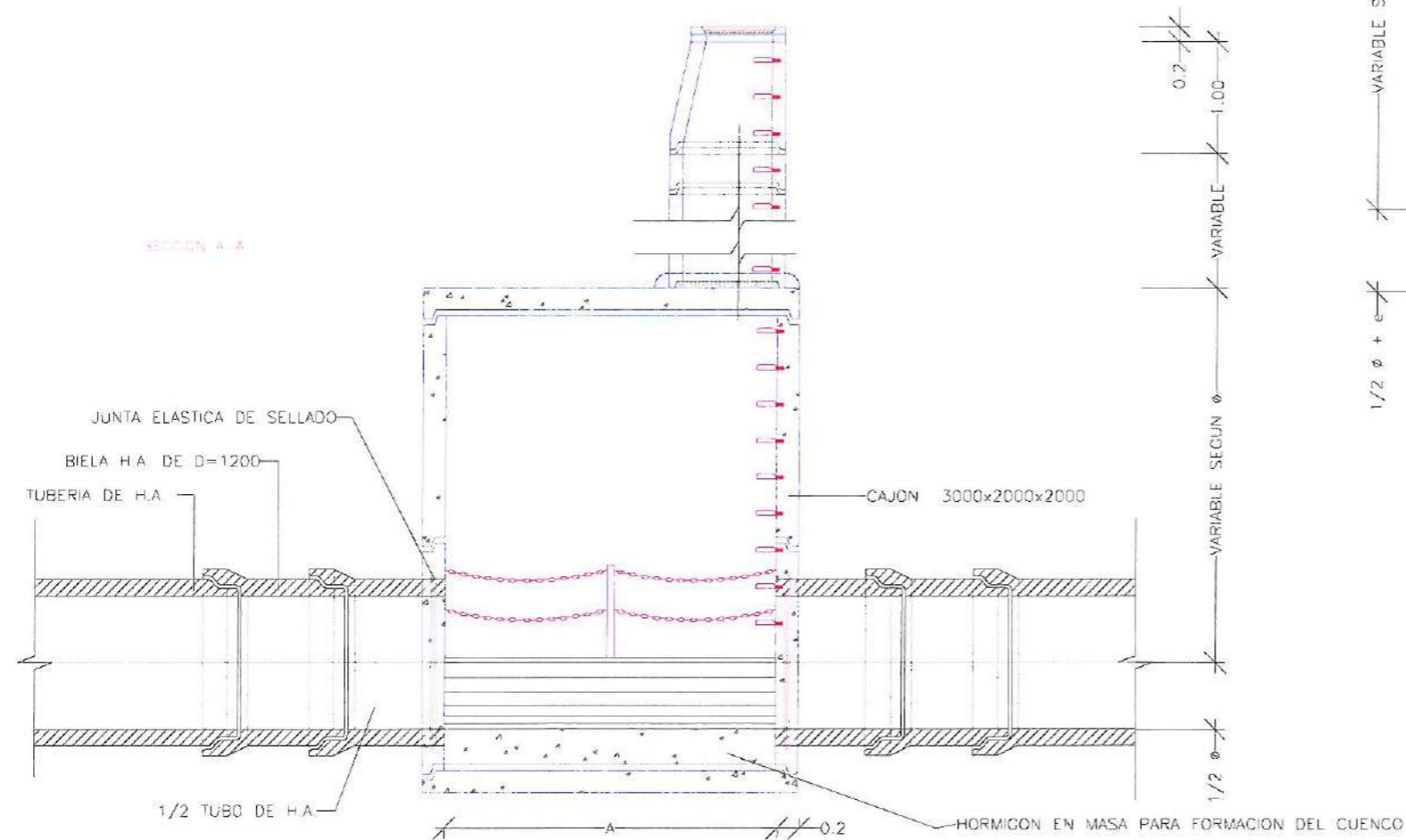
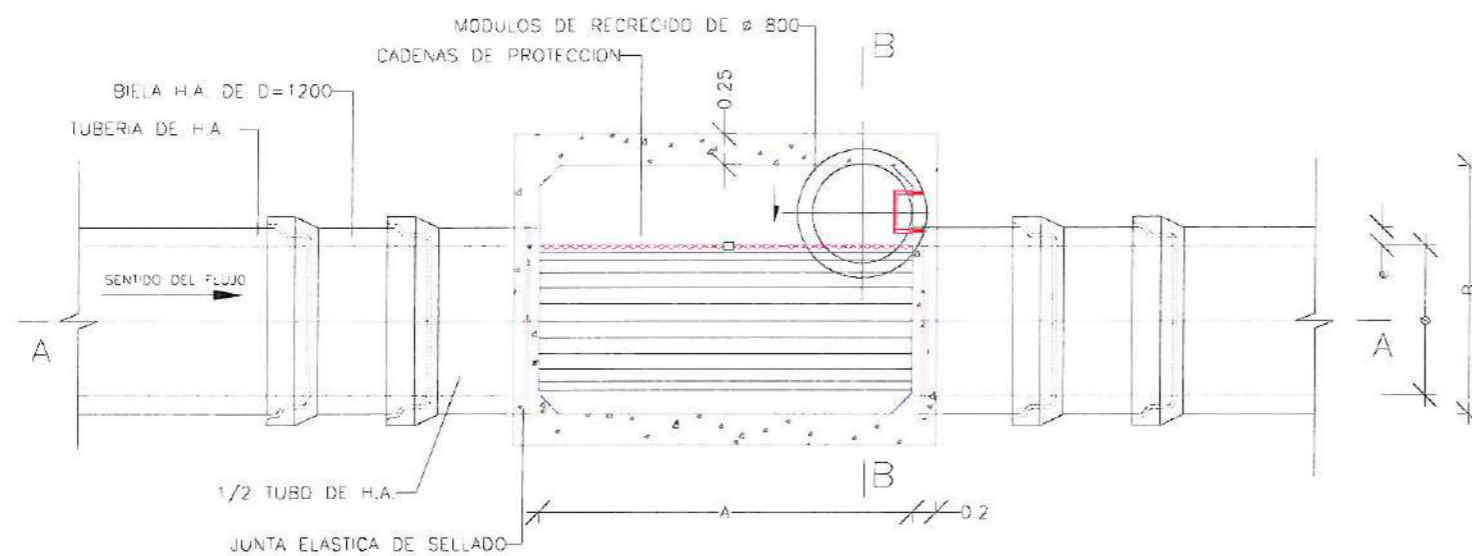


POZO DE REGRUPO HORMIGÓN ARMADO TIPO I
PARA COLECTORES DE 400mm A 600mm
ESCALA 1/30
Cotas en mm



NOTA: LA ORIENTACIÓN DE LOS EXTREMOS DE ENTROUNQUE SE DEFINIRÁ EN FUNCIÓN EN PLANTA DEL POZO CORRESPONDIENTE.

DETALLE DEL RECREcido HORMIGON ARMADO PARA LA LINDA DE B. D. A. 1/200 A 1/100
 ESCALA 1/30
 Cotas en mm



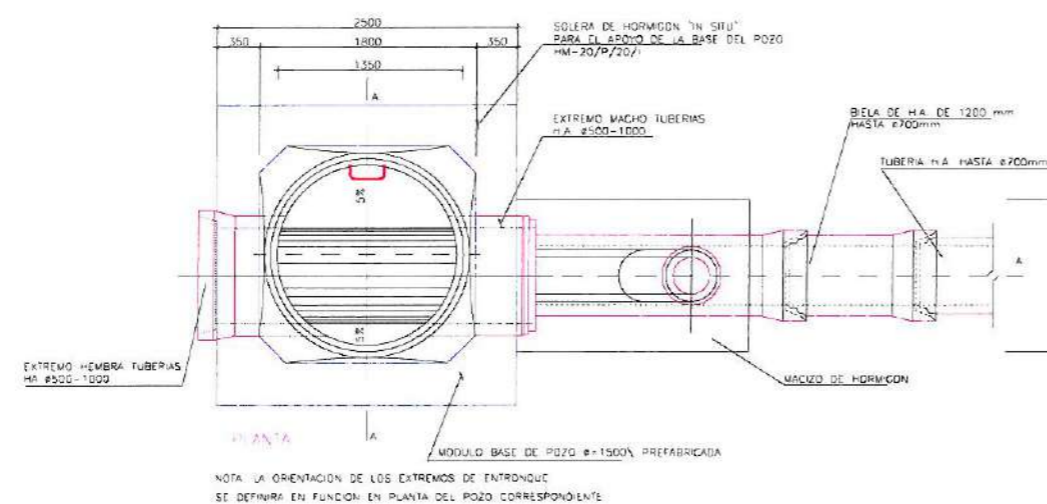
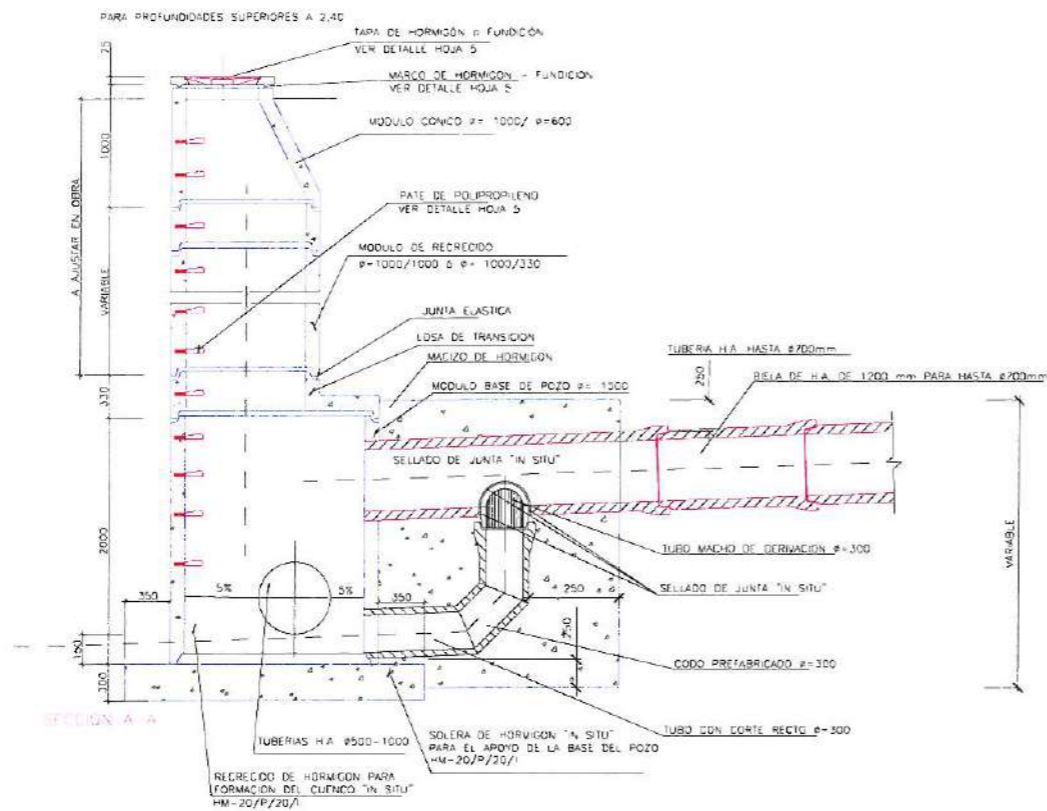
| D | A | B |
|------|------|------|
| 1200 | 3.00 | 2.00 |
| 1600 | 3.00 | 2.00 |

NOTA: PARA PROFUNDIDADES > 4.00m, SE UTILIZARAN MODULOS DE RECREcido DE 100 EN LUGAR DE 33. e ES EL ESPESOR NOMINAL DEL TUBO. COTAS EN m

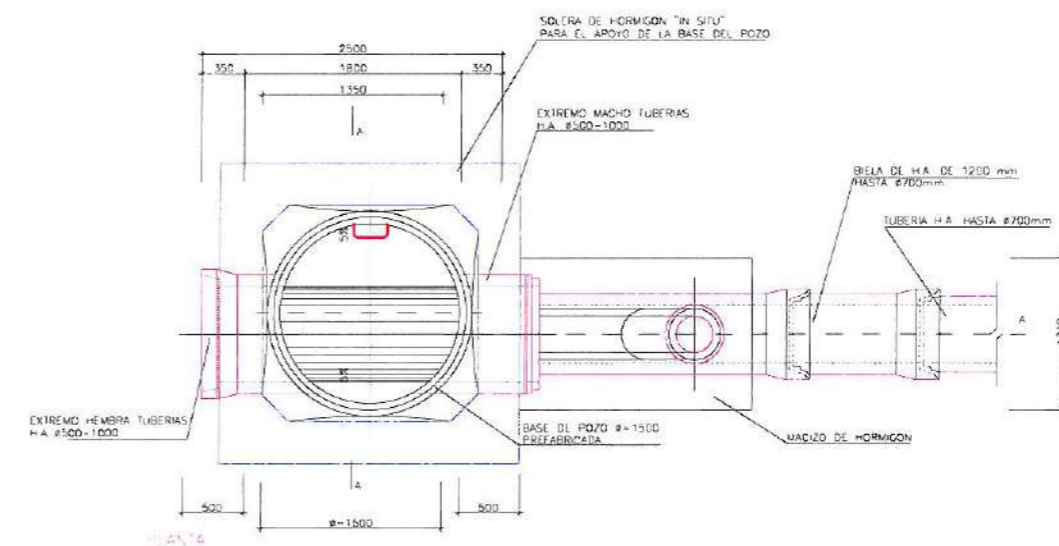
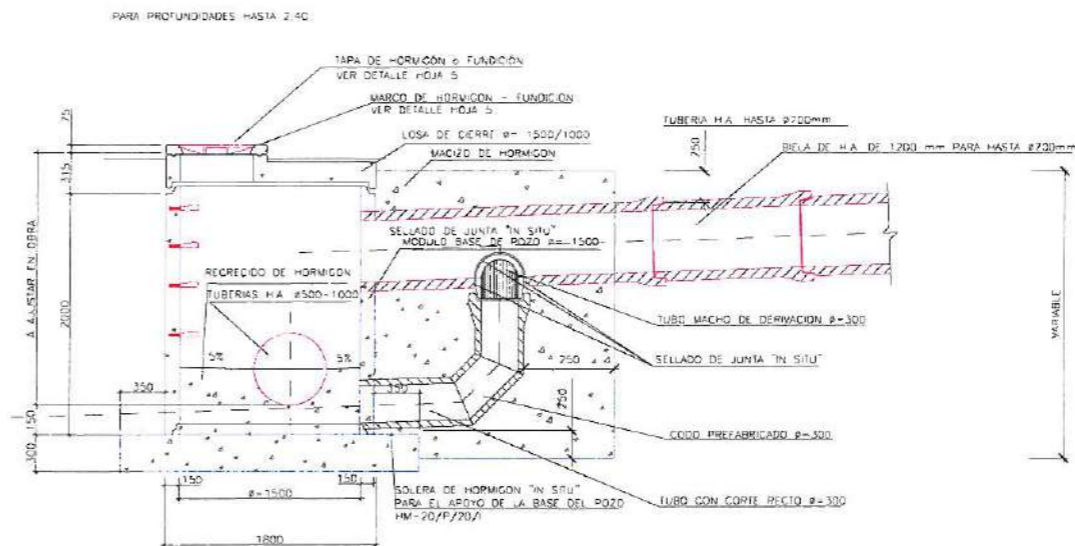
POZO DE RESERVA DE ALMACENAMIENTO DE AGUA
PARA EL ABASTECIMIENTO DE LA ZONA DE LA UTE POLIGONO DE BOBES

ESCALA 1/30

Cotas en mm



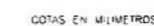
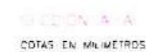
NOTA: LA ORIENTACION DE LOS EXTREMOS DE ENTROQUE SE DEFINIRA EN FUNCION EN PLANTA DEL POZO CORRESPONDIENTE



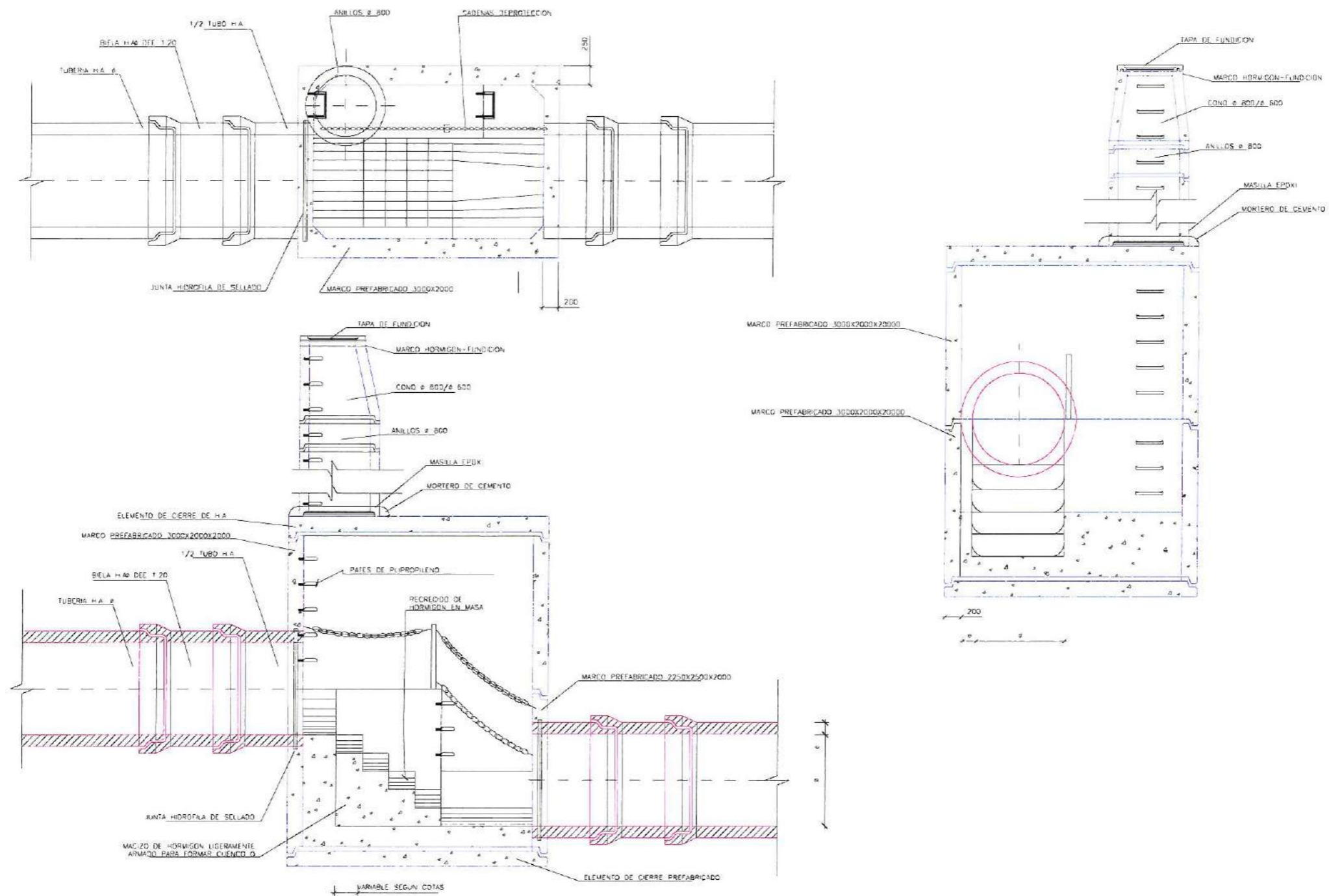
Colas en mm

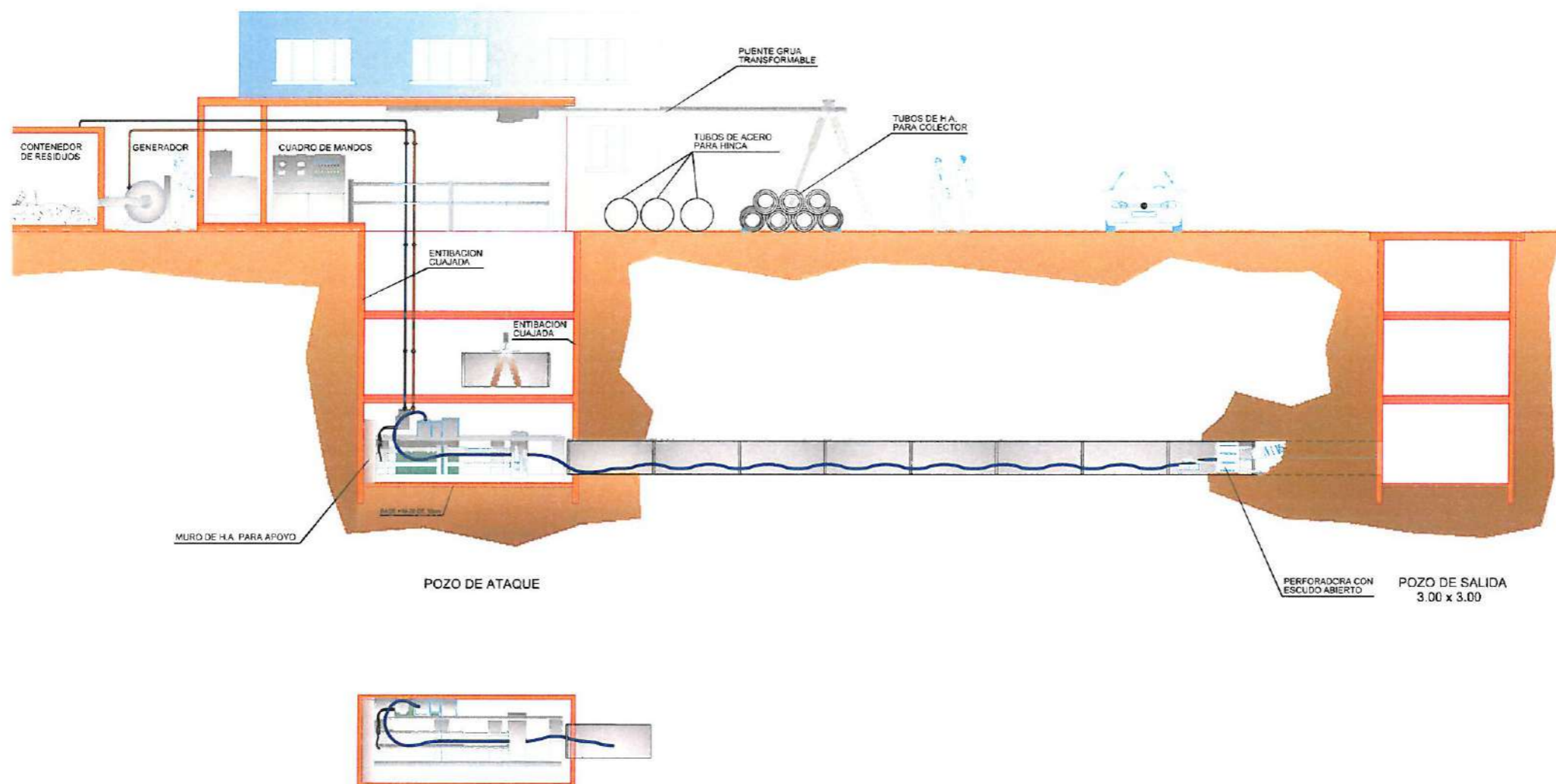


NOTA: La orientación de los extremos de entronque se definen sobre pedido en obra.

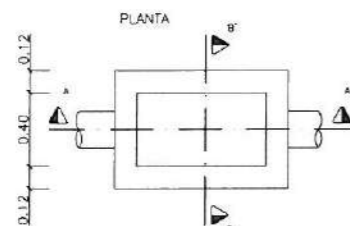
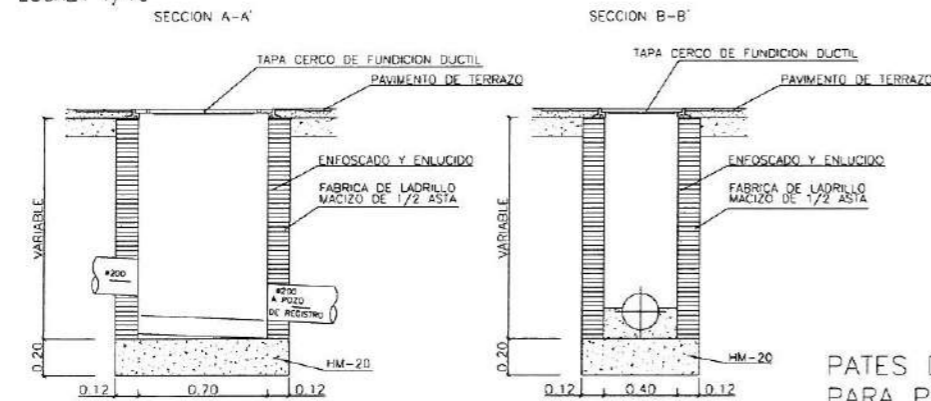


POZO DE RESECA DE HORMIGÓN ARMADO (P.H.)
 PARA COLECTORES DE Ø 1200 mm - A Ø 800 mm
 ESCALA 1/30
 Cotas en mm

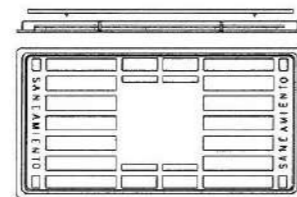




ARQUETA REGISTRO PARA
SANEAMIENTO DE 70x40
ESCALA 1/10

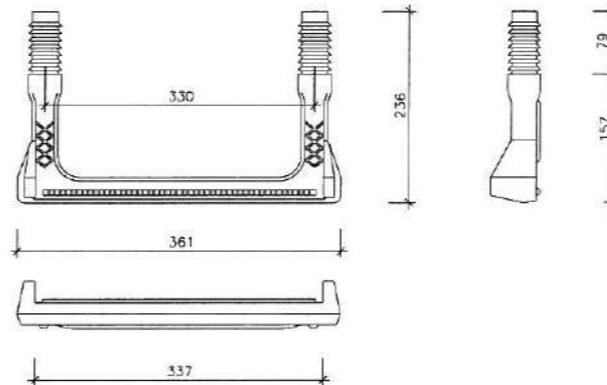


TAPA DE ACOMETIDA
ESCALA 1/20



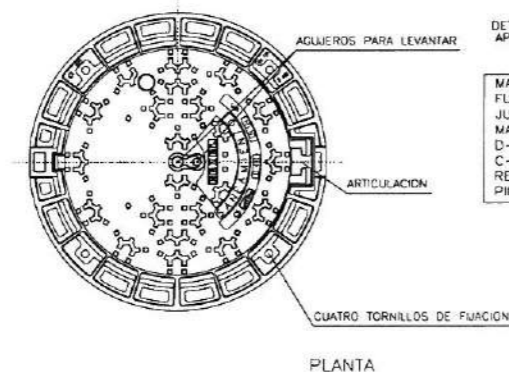
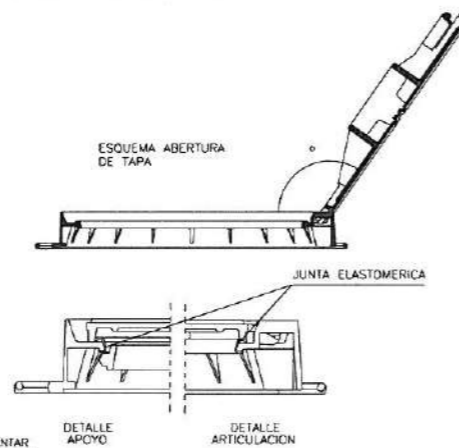
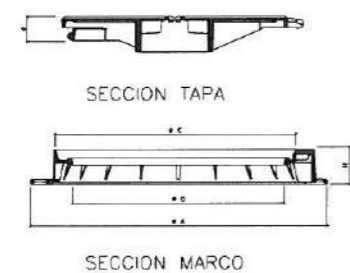
TAPA DE FUNDICION 40x70
CLASE C-250 EN 124

PATES DE POLIPROPILENO CON ALMA DE ACERO
PARA POZOS DE REGISTRO
S/E



NOTA:
-ARQUETA ACONDICIONADA PARA LA TOMA DE MUESTRAS SEGUN LEY 5/ 2000

CONJUNTO DE TAPA Y MARCO DE FUNDICION
PARA POZOS DE REGISTRO
ESCALA 1/10

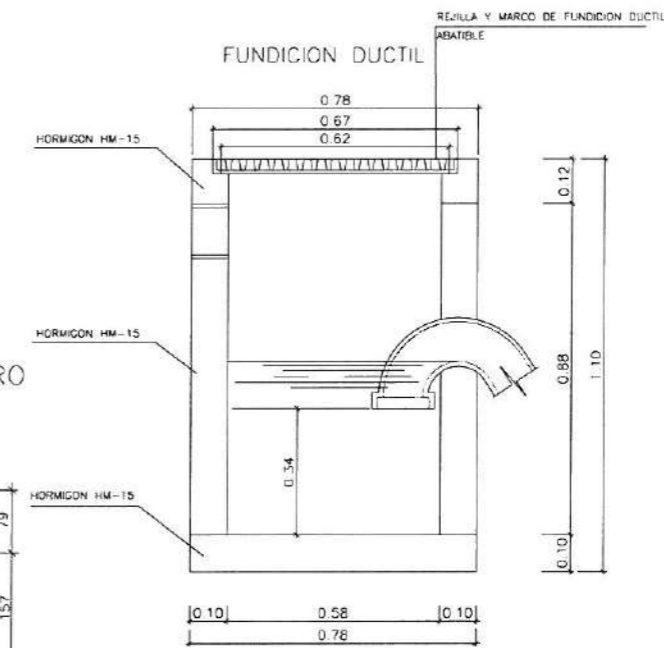


MATERIAL:
FUNDICION GF 500-7
JUNTA POLIURETANO EN MARCO
MARCO
D-400 EN CALZADA
C-250 EN ADERAS
REVESTIMIENTO
PINTURA HIDROSOLUBLE NEGRA

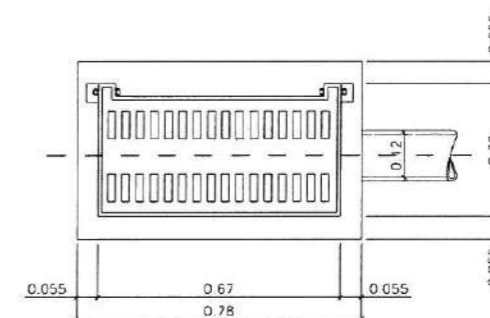
DIMENSIONES
p A e c o h e
850 650 600 100 60

NOTA:
-LAS ARQUETAS Y POZOS DE LA RED DE PLUVIALES LLEVARAN INSCRITO "PLUVIALES"
-LAS ARQUETAS Y POZOS DE LA RED DE FECALES LLEVARAN INSCRITO "FECALES"

SUMIDERO DE CALZADA
ESCALA 1/10

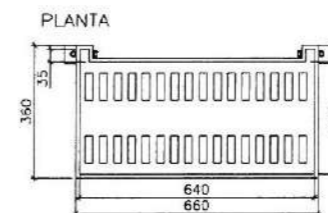


ALZADO-SECCION

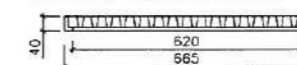


PLANTA

REJILLA ABATIBLE PARA SUMIDROS DE CALZADA
ESCALA 1/10

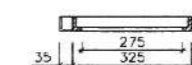


SECCION FRONTAL CERCO



ARTICULACION 105°

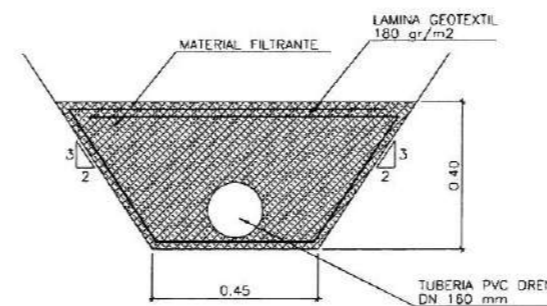
SECCION LATERAL



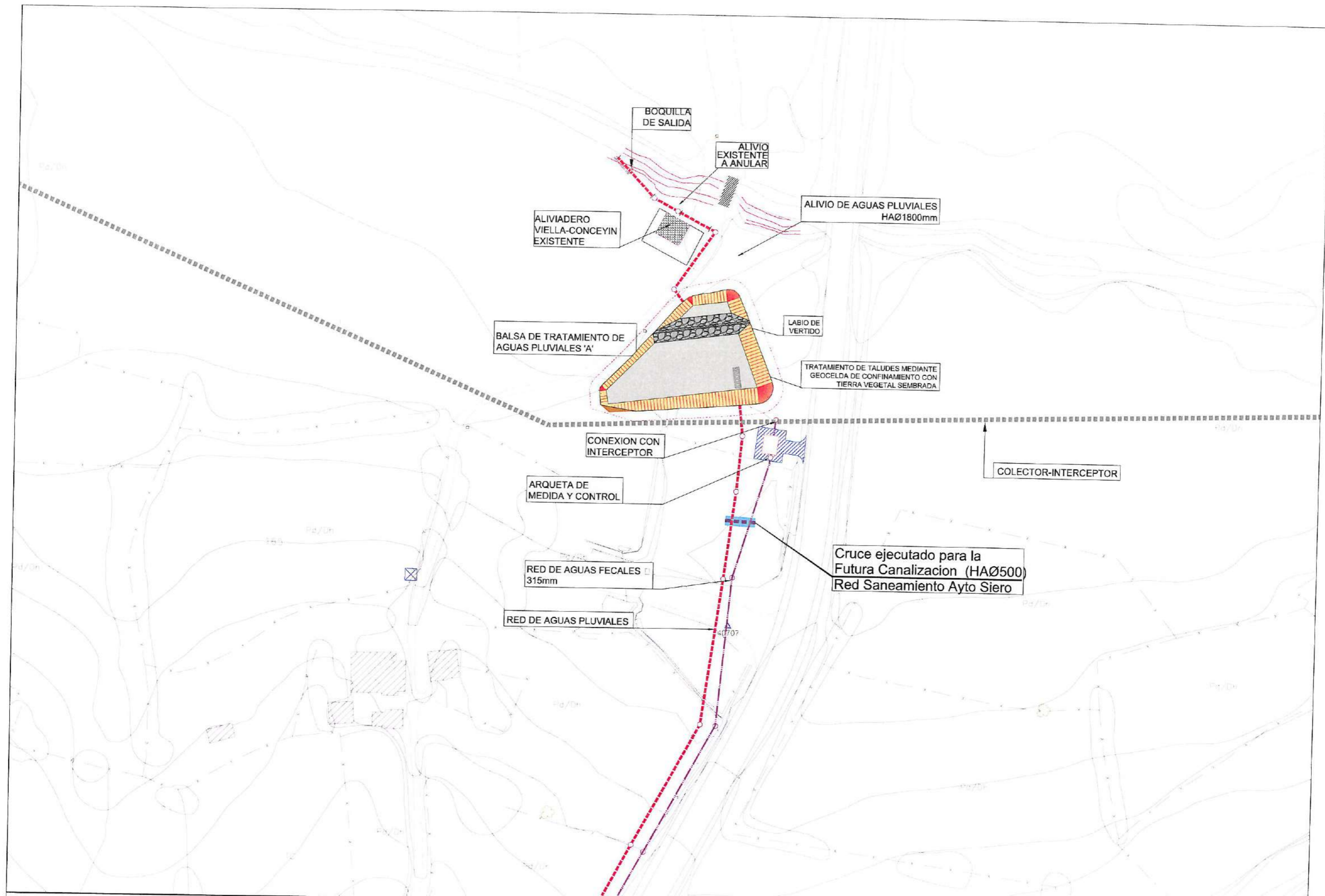
SECCION LATERAL CERCO

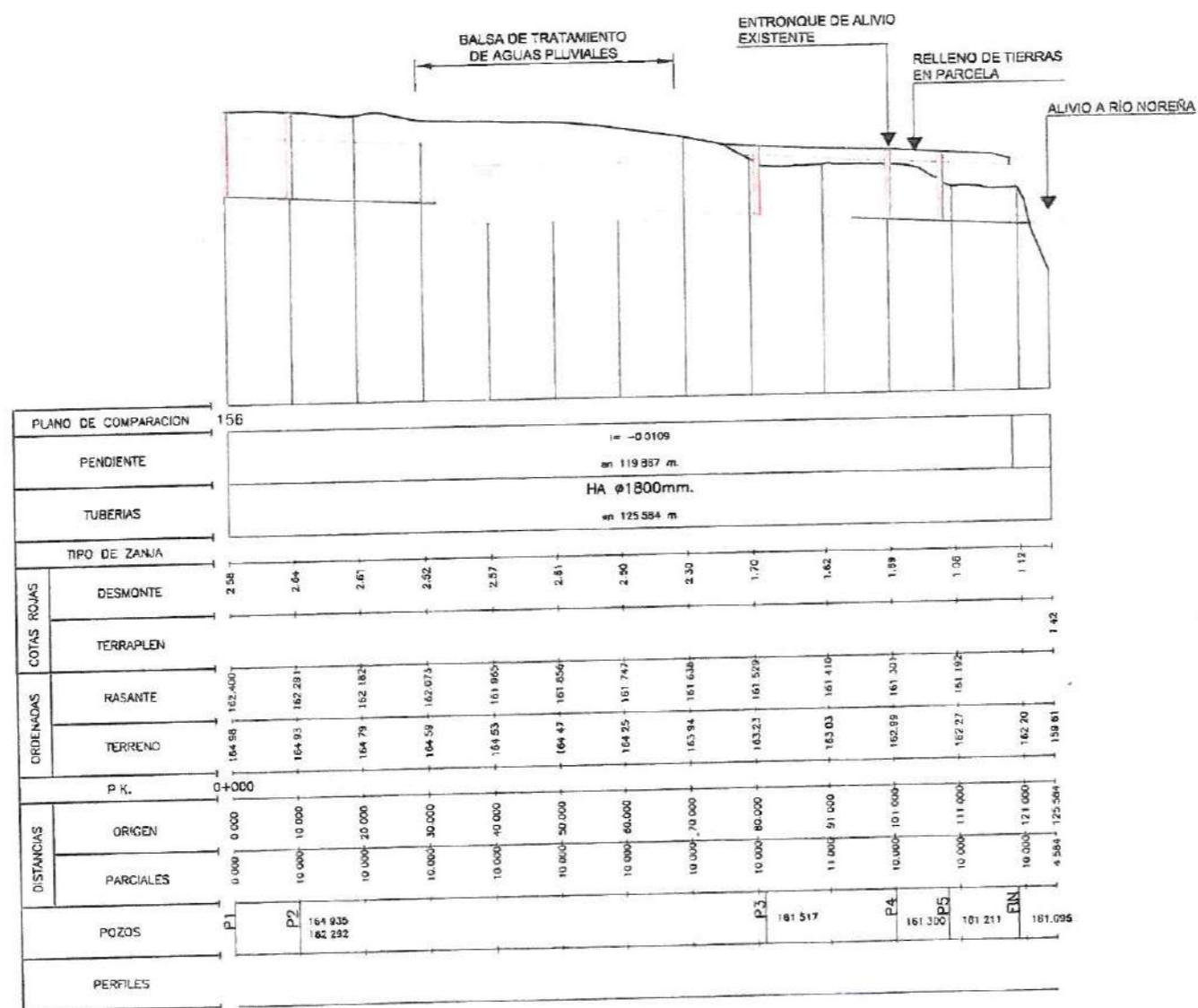
MATERIAL REJILLA Y CERCO
FUNDICION GF 500-7
MARCO:
EN 124 D-400
REVESTIMIENTO
PINTURA HIDROSOLUBLE NEGRA

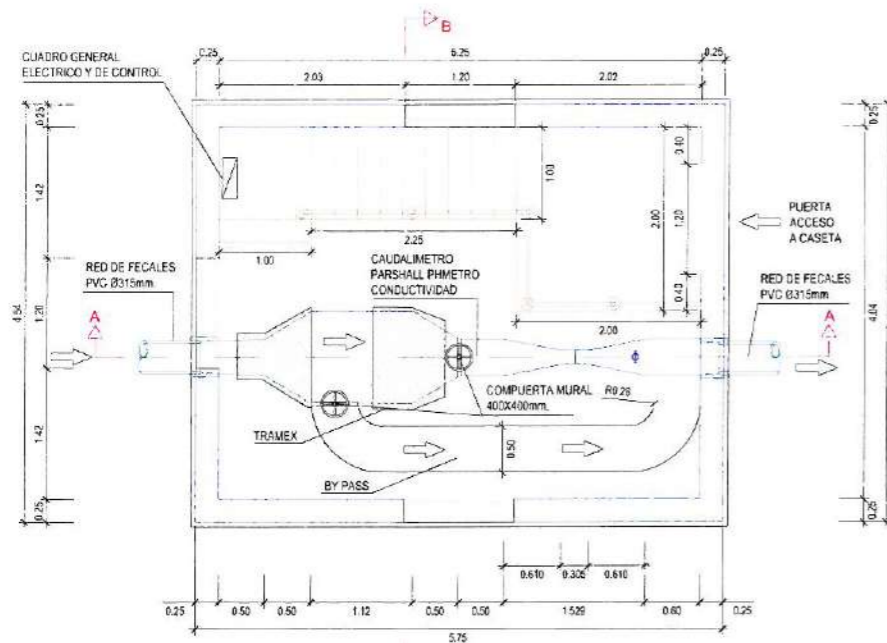
DRENAJE SUBTERRANEO
EN EXPLANACION DE VIALES
ESCALA 1/10



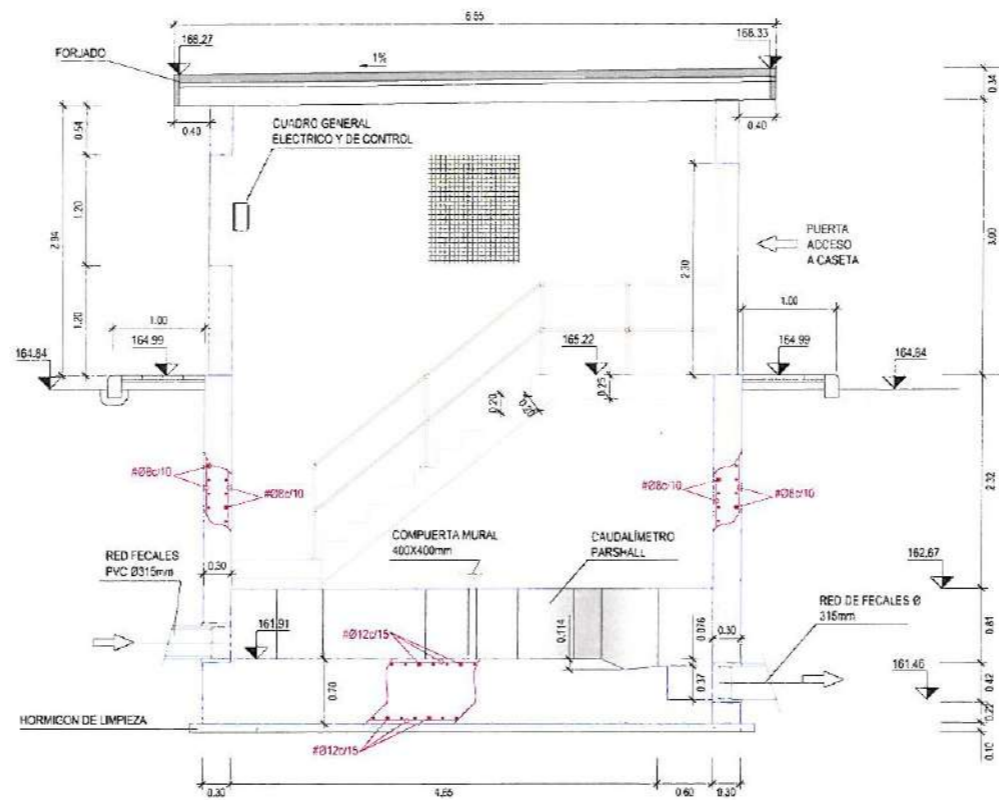
| CUADRO DE CARACTERISTICAS SEGUN EHE | | | | | | |
|-------------------------------------|---------------------|-------------------------------|------------------|-------------------------|-----|-----|
| ELEMENTO | LOCALIZACION | ESPECIFICACIONES DEL ELEMENTO | NIVEL DE CONTROL | COEFICIENTE PONDERACION | | |
| HORMIGON | ARQUETA Y POZOS REG | HM/20/P/20/1 | NORMAL | 1.5 | 1.5 | 1.5 |
| EJECUCION | ARQUETA Y POZOS REG | | NORMAL | | | 1.6 |



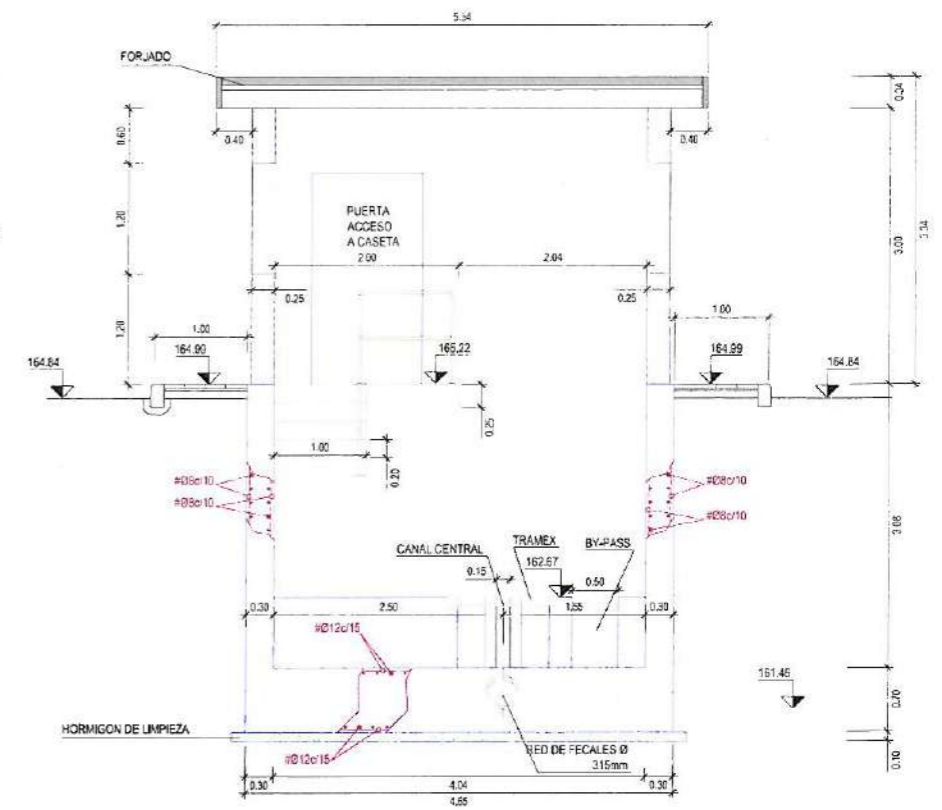




PLANTA
ESCALA 1:40



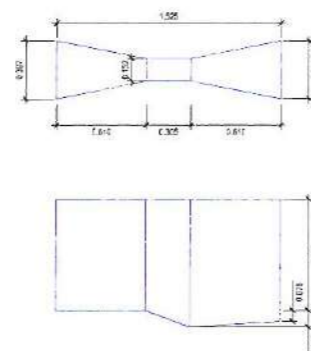
SECCION A-A
ESCALA 1:40



SECCION B-B
ESCALA 1:40

COTAS APROXIMADAS SEGÚN PROYECTO DE
URBANIZACIÓN PARA LA CONEXIÓN 'A'

DETALLE MEDIDOR PARSHALL 6"
ESCALA 1:25



SECCION TIPO DE FORJADO
SIN ESCALA



CUADRO DE MATERIALES SEGUN EHE-08

NIVELES DE CONTROL Y COEFICIENTES DE SEGURIDAD

- Acero para armaz. nivel normal (S = 1,15)
- Hormigón nivel estadístico (S = 1,50)
- Ejecución (Todo lo obra) nivel normal (S = 1,50)

ACERO PARA ARMAR

B-S035 $f_{yk} = 500 \text{ N/mm}^2$

PARA ANCLAJES Y SOLAPES, SE SEGUIRAN LAS PRESCRIPCIONES CONTENIDAS EN EL ARTICULO 60.5 DE LA INSTRUCCION EHE-08

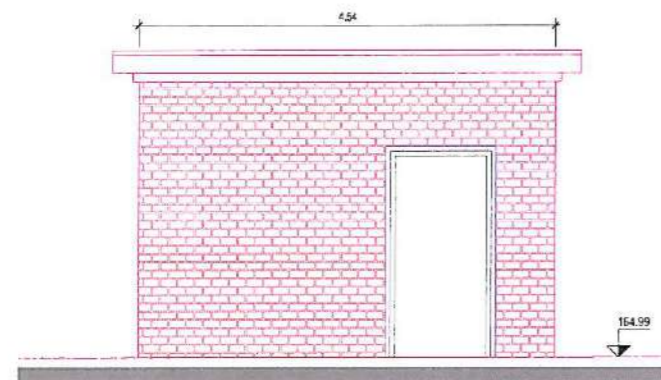
| HORMIGON TIPO | f_{ck} (N/mm ²) | ELEMENTO | REQUERIMIENTOS |
|------------------|-------------------------------|------------------|----------------|
| HL-150/B/20 | 15 | LIMPIEZA | — |
| HA-35/B/20/ha+0a | 30 | HASTIALES Y LOSA | 3,00m |

REQUERIMIENTOS OBTENIDOS PARA VIDA ÚTIL=50 AÑOS

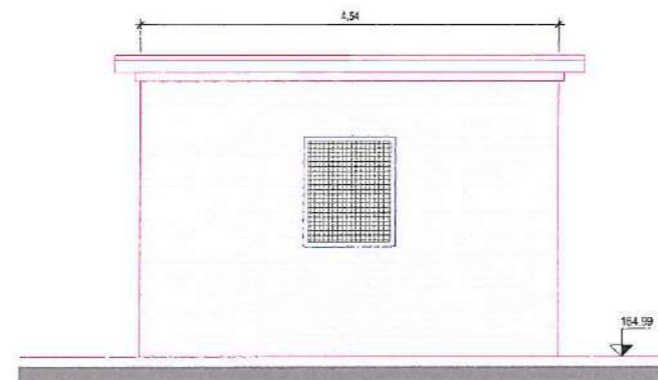
LA RELACION AGUA/CEMENTO MÁXIMA UTILIZADA SERA $A/C = 0,50$

PARA AMBIENTE $\alpha_a=0,01$ ELEMENTO ARMADO

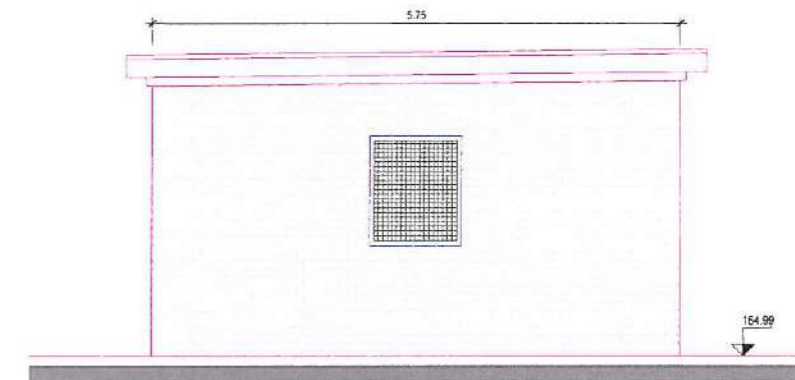
Y EL MÍNIMO CONTENIDO DE CEMENTO SERA DE 350 kg/m^3 PARA AMBIENTE $\alpha_a=0,01$ (EHE-08 TABLA 37.3.2 a)



ALZADO PRINCIPAL

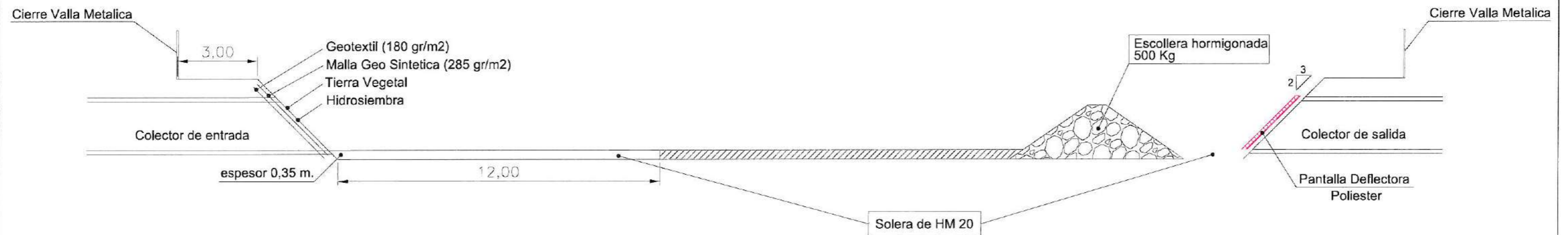


ALZADO POSTERIOR

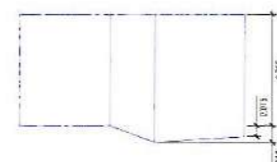
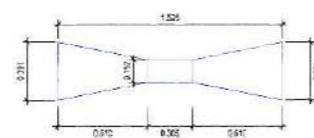


ALZADO LATERAL

SECCION LONGITUDINAL BALSA DECANTACION RED A PLUVIALES







Ficha de características de placas acrílicas

RUBERA Ru-120/15+5
RUBERA PEGADA

Canto: 15 milímetros 3/8 cm
Espesor: capa completa 5 cm
Ancho de placa: 1200 mm
Entrega mínima: 6 cm

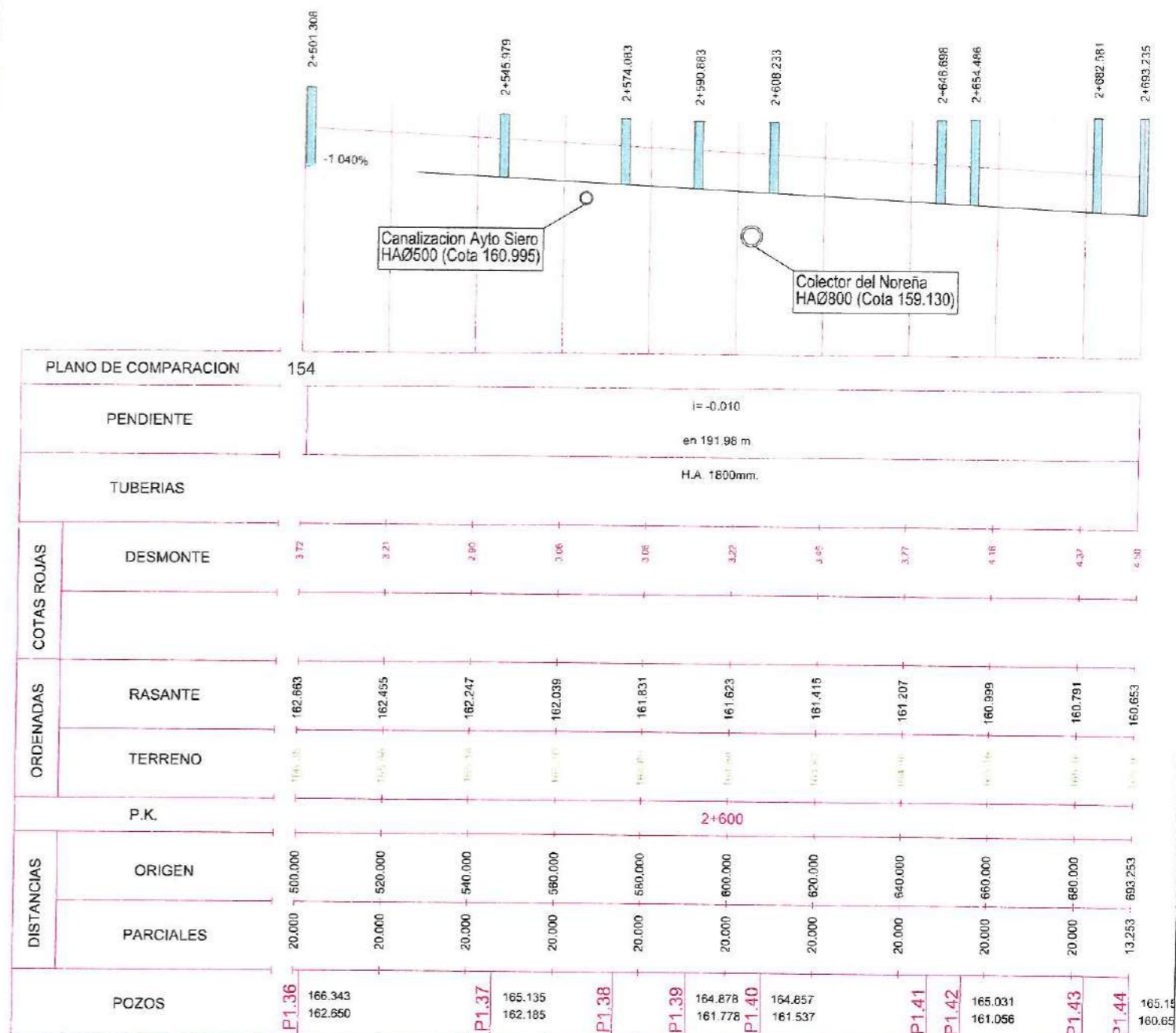
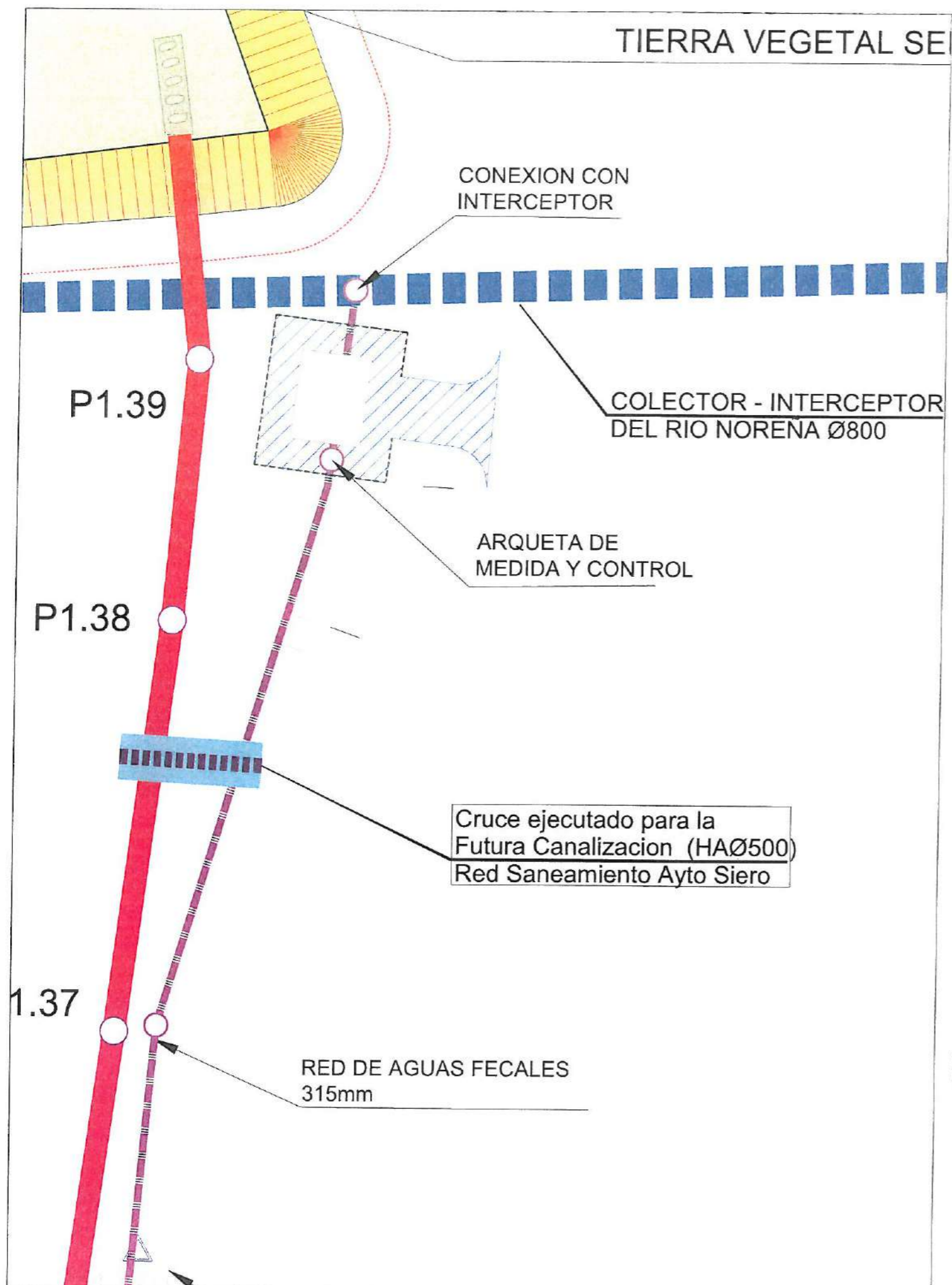
Hormigón de la losa RA-45 Cemento: 100 por 100
Hormigón de la copa y juntas RA-25 Control: Estructura
Acero de refuerzo: B 500 S Control: horma

Peso propio: 0,14663 kg/m²

Nota: El fabricante no podrá los suministros necesarios y la supervisión técnica adecuada.

Nota: Consultar las partes referentes a otros tipos de faja para la estructura principal y de las zonas





EJE 42
COLECTOR DE MEDIANA