



## **ÍNDICE**

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1. INTRODUCCIÓN

El presente Anejo contiene los datos necesarios para el replanteo, a partir de las bases de replanteo del eje principal de la obra.

Aunque en los siguientes apartados se describe los listados correspondiente a la actuación global de la urbanización de la rúa Severino Cobas, la fase que se desarrolla en el presente proyecto discurre entre el cruce con la Travesa de Santa Cristina (P.K. 0+300) y el cruce con la Baixada a Capitán (P.K. 0+560).

2. CÁLCULOS DE REPLANTEO

A continuación se incluyen los listados para el replanteo del eje del tronco desde las bases cuyas coordenadas se indican.

3. RED DE BASES DE REPLANTEO

Se han implantado un total de 6 bases de replanteo a lo largo del trazado.

Para ello se han utilizado técnicas GPS con los mismos equipos descritos anteriormente.

Coordenadas de BASES DE REPLANTEO

| Nombre | X           | Y             | Z       |
|--------|-------------|---------------|---------|
| BR-1   | 525 104,902 | 4 675 187,886 | 62,302  |
| BR-2   | 525 015,510 | 4 674 836,904 | 44,247  |
| BR-3   | 526 117,224 | 4 674 405,025 | 131,413 |
| BR-4   | 526 361,445 | 4 675 252,231 | 79.921  |
| BR-5   | 525 996,731 | 4 675 082,894 | 50,910  |
| BR-6   | 525 893,369 | 4 675 139,132 | 44,323  |
| BR-7   | 525 786,992 | 4 675 053,331 | 39,871  |
| BR-8   | 525 573,819 | 4 675 081,471 | 40,373  |
| BR-9   | 525 433,358 | 4 675 046,544 | 41,490  |

| Nombre | X           | Y             | Z      |
|--------|-------------|---------------|--------|
| BR-10  | 525 355,396 | 4 675 003,738 | 42,700 |
| BR-11  | 525 277,358 | 4 674 996,816 | 41,806 |
| BR-12  | 525 198,889 | 4 674 948,309 | 44,279 |
| BR-13  | 525 132,912 | 4 675 014,666 | 50,325 |
| BR-14  | 525 055,484 | 4 675 042,301 | 55,505 |



#### 4. LISTADOS

##### 4.1. EJE RUA SEVERINO COBAS

PROYECTO : URBANIZACIÓN RUA SEVERINO COBAS  
EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*  
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BR : BR14 X: 525055.484 Y: 4675042.301 Z: 55.505  
BO : BR13 X: 525132.912 Y: 4675014.666 Z: 50.325  
Distancia: 82.212 Azimut: 121.8246

| TIPO  | PK | Estacc. | Azimut     | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|------------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| RECTA |    | 0.000   | 116.480443 | 0.000   | 525056.385 | 4675038.040 | 186.727894 | 4.355    | 64.903335  | 318.871823 | 80.017    |
| RECTA |    | 20.000  | 116.480443 | 0.000   | 525075.719 | 4675032.920 | 127.635561 | 22.304   | 5.811001   | 319.668313 | 60.035    |
| RECTA |    | 40.000  | 116.480443 | 0.000   | 525095.053 | 4675027.800 | 122.362505 | 42.142   | 0.537946   | 321.258842 | 40.073    |
| CLOT. |    | 58.579  | 116.480443 | 0.000   | 525113.013 | 4675023.044 | 120.563426 | 60.666   | 398.738866 | 325.369645 | 21.591    |
| CLOT. |    | 60.000  | 116.551840 | 0.000   | 525114.386 | 4675022.680 | 120.470593 | 62.084   | 398.646033 | 325.991668 | 20.185    |
| CIRC. |    | 69.167  | 120.445549 | 0.000   | 525123.188 | 4675020.122 | 120.153236 | 71.244   | 398.328676 | 332.552755 | 11.150    |
| CIRC. |    | 80.000  | 128.558763 | 0.000   | 525133.221 | 4675016.058 | 120.726590 | 82.047   | 398.902030 | 13.913018  | 1.426     |

EJE : 1: EJE RUA SEVERINO COBAS

BR : BR13 X: 525132.912 Y: 4675014.666 Z: 50.325  
BO : BR14 X: 525055.484 Y: 4675042.301 Z: 55.505  
Distancia: 82.212 Azimut: 321.8246

| TIPO  | PK | Estacc. | Azimut     | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|------------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| RECTA |    | 0.000   | 116.480443 | 0.000   | 525056.385 | 4675038.040 | 318.871823 | 80.017   | 397.047264 | 186.727894 | 4.355     |
| RECTA |    | 20.000  | 116.480443 | 0.000   | 525075.719 | 4675032.920 | 319.668313 | 60.035   | 397.843753 | 127.635561 | 22.304    |
| RECTA |    | 40.000  | 116.480443 | 0.000   | 525095.053 | 4675027.800 | 321.258842 | 40.073   | 399.434282 | 122.362505 | 42.142    |
| CLOT. |    | 58.579  | 116.480443 | 0.000   | 525113.013 | 4675023.044 | 325.369645 | 21.591   | 3.545085   | 120.563426 | 60.666    |
| CLOT. |    | 60.000  | 116.551840 | 0.000   | 525114.386 | 4675022.680 | 325.991668 | 20.185   | 4.167108   | 120.470593 | 62.084    |
| CIRC. |    | 69.167  | 120.445549 | 0.000   | 525123.188 | 4675020.122 | 332.552755 | 11.150   | 10.728195  | 120.153236 | 71.244    |
| CIRC. |    | 80.000  | 128.558763 | 0.000   | 525133.221 | 4675016.058 | 13.913018  | 1.426    | 92.088458  | 120.726590 | 82.047    |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*

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BR : BR13 X: 525132.912 Y: 4675014.666 Z: 50.325

BO : BR12 X: 525198.889 Y: 4674948.309 Z: 44.279

Distancia: 93.575 Azimut: 150.1828

| TIPO  | PK      | Estacc.    | Azimut | Dis.Eje    | X           | Y          | Ang.Azimu. | Dis.Redu   | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|---------|------------|--------|------------|-------------|------------|------------|------------|------------|------------|-----------|
| CIRC. | 80.000  | 128.558763 | 0.000  | 525133.221 | 4675016.058 | 13.913018  | 1.426      | 263.730211 | 350.993014 | 94.351     |           |
| CIRC. | 100.000 | 143.538051 | 0.000  | 525150.061 | 4675005.353 | 131.671273 | 19.514     | 381.488467 | 354.930508 | 75.088     |           |
| CLOT. | 113.226 | 153.444141 | 0.000  | 525159.622 | 4674996.234 | 138.452866 | 32.453     | 388.270059 | 356.301545 | 61.957     |           |
| CLOT. | 120.000 | 156.894600 | 0.000  | 525163.985 | 4674991.054 | 141.366989 | 39.027     | 391.184183 | 356.407297 | 55.185     |           |
| CLOT. | 123.815 | 157.409247 | 0.000  | 525166.359 | 4674988.068 | 142.769168 | 42.734     | 392.586361 | 356.345637 | 51.371     |           |
| CIRC. | 128.483 | 154.326227 | 0.000  | 525169.313 | 4674984.454 | 144.102230 | 47.305     | 393.919424 | 356.342043 | 46.703     |           |
| CIRC. | 140.000 | 139.113879 | 0.000  | 525177.845 | 4674976.759 | 144.613734 | 58.787     | 394.430927 | 359.455574 | 35.387     |           |
| CIRC. | 160.000 | 112.696969 | 0.000  | 525196.081 | 4674968.900 | 139.915384 | 78.005     | 389.732578 | 391.369961 | 20.781     |           |

EJE : 1: EJE RUA SEVERINO COBAS

BR : BR12 X: 525198.889 Y: 4674948.309 Z: 44.279

BO : BR13 X: 525132.912 Y: 4675014.666 Z: 50.325

Distancia: 93.575 Azimut: 350.1828

| TIPO  | PK      | Estacc.    | Azimut | Dis.Eje    | X           | Y          | Ang.Azimu. | Dis.Redu  | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|---------|------------|--------|------------|-------------|------------|------------|-----------|------------|------------|-----------|
| CIRC. | 80.000  | 128.558763 | 0.000  | 525133.221 | 4675016.058 | 350.993014 | 94.351     | 0.810207  | 13.913018  | 1.426      |           |
| CIRC. | 100.000 | 143.538051 | 0.000  | 525150.061 | 4675005.353 | 354.930508 | 75.088     | 4.747701  | 131.671273 | 19.514     |           |
| CLOT. | 113.226 | 153.444141 | 0.000  | 525159.622 | 4674996.234 | 356.301545 | 61.957     | 6.118739  | 138.452866 | 32.453     |           |
| CLOT. | 120.000 | 156.894600 | 0.000  | 525163.985 | 4674991.054 | 356.407297 | 55.185     | 6.224491  | 141.366989 | 39.027     |           |
| CLOT. | 123.815 | 157.409247 | 0.000  | 525166.359 | 4674988.068 | 356.345637 | 51.371     | 6.162830  | 142.769168 | 42.734     |           |
| CIRC. | 128.483 | 154.326227 | 0.000  | 525169.313 | 4674984.454 | 356.342043 | 46.703     | 6.159237  | 144.102230 | 47.305     |           |
| CIRC. | 140.000 | 139.113879 | 0.000  | 525177.845 | 4674976.759 | 359.455574 | 35.387     | 9.272768  | 144.613734 | 58.787     |           |
| CIRC. | 160.000 | 112.696969 | 0.000  | 525196.081 | 4674968.900 | 391.369961 | 20.781     | 41.187155 | 139.915384 | 78.005     |           |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*  
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BR : BR12 X: 525198.889 Y: 4674948.309 Z: 44.279  
BO : BR11 X: 525277.358 Y: 4674996.816 Z: 41.806  
Distancia: 92.251 Azimut: 64.7522

| TIPO  | PK | Estacc. | Azimut     | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|------------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. |    | 160.000 | 112.696969 | 0.000   | 525196.081 | 4674968.900 | 391.369961 | 20.781   | 326.617758 | 278.937657 | 85.938    |
| CIRC. |    | 180.000 | 86.280060  | 0.000   | 525215.937 | 4674969.059 | 43.783977  | 26.855   | 379.031774 | 272.979223 | 67.402    |
| CLOT. |    | 195.580 | 65.700893  | 0.000   | 525230.359 | 4674974.772 | 55.488796  | 41.117   | 390.736593 | 272.079692 | 51.912    |
| CLOT. |    | 200.000 | 62.626612  | 0.000   | 525234.079 | 4674977.157 | 56.284375  | 45.503   | 391.532171 | 272.856228 | 47.534    |
| CLOT. |    | 200.249 | 62.617872  | 0.000   | 525234.286 | 4674977.295 | 56.318742  | 45.751   | 391.566539 | 272.909794 | 47.289    |
| CIRC. |    | 213.895 | 66.322733  | 0.000   | 525245.790 | 4674984.632 | 58.047800  | 59.322   | 393.295596 | 276.551526 | 33.838    |
| CIRC. |    | 220.000 | 69.637583  | 0.000   | 525251.138 | 4674987.575 | 58.971720  | 65.359   | 394.219517 | 278.428140 | 27.801    |
| CIRC. |    | 240.000 | 80.497111  | 0.000   | 525269.601 | 4674995.200 | 62.723100  | 84.847   | 397.970896 | 286.922312 | 7.923     |

EJE : 1: EJE RUA SEVERINO COBAS

BR : BR11 X: 525277.358 Y: 4674996.816 Z: 41.806  
BO : BR12 X: 525198.889 Y: 4674948.309 Z: 44.279  
Distancia: 92.251 Azimut: 264.7522

| TIPO  | PK | Estacc. | Azimut     | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|------------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. |    | 160.000 | 112.696969 | 0.000   | 525196.081 | 4674968.900 | 278.937657 | 85.938   | 14.185454  | 391.369961 | 20.781    |
| CIRC. |    | 180.000 | 86.280060  | 0.000   | 525215.937 | 4674969.059 | 272.979223 | 67.402   | 8.227019   | 43.783977  | 26.855    |
| CLOT. |    | 195.580 | 65.700893  | 0.000   | 525230.359 | 4674974.772 | 272.079692 | 51.912   | 7.327489   | 55.488796  | 41.117    |
| CLOT. |    | 200.000 | 62.626612  | 0.000   | 525234.079 | 4674977.157 | 272.856228 | 47.534   | 8.104024   | 56.284375  | 45.503    |
| CLOT. |    | 200.249 | 62.617872  | 0.000   | 525234.286 | 4674977.295 | 272.909794 | 47.289   | 8.157591   | 56.318742  | 45.751    |
| CIRC. |    | 213.895 | 66.322733  | 0.000   | 525245.790 | 4674984.632 | 276.551526 | 33.838   | 11.799323  | 58.047800  | 59.322    |
| CIRC. |    | 220.000 | 69.637583  | 0.000   | 525251.138 | 4674987.575 | 278.428140 | 27.801   | 13.675937  | 58.971720  | 65.359    |
| CIRC. |    | 240.000 | 80.497111  | 0.000   | 525269.601 | 4674995.200 | 286.922312 | 7.923    | 22.170109  | 62.723100  | 84.847    |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*

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BR : BR11 X: 525277.358 Y: 4674996.816 Z: 41.806

BO : BR10 X: 525355.396 Y: 4675003.738 Z: 42.700

Distancia: 78.344 Azimut: 94.3679

| TIPO  | PK | Estacc. | Azimut    | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|-----------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. |    | 240.000 | 80.497111 | 0.000   | 525269.601 | 4674995.200 | 286.922312 | 7.923    | 192.554414 | 293.685202 | 86.219    |
| CLOT. |    | 255.882 | 89.120795 | 0.000   | 525285.022 | 4674998.951 | 82.704101  | 7.955    | 388.336203 | 295.676127 | 70.537    |
| CLOT. |    | 260.000 | 91.140750 | 0.000   | 525289.090 | 4674999.584 | 85.248071  | 12.054   | 390.880173 | 296.017165 | 66.436    |
| CLOT. |    | 277.205 | 94.909639 | 0.000   | 525306.207 | 4675001.296 | 90.191246  | 29.195   | 395.823347 | 296.842636 | 49.250    |
| CLOT. |    | 280.000 | 94.840559 | 0.000   | 525308.993 | 4675001.521 | 90.601224  | 31.983   | 396.233325 | 296.960306 | 46.456    |
| CIRC. |    | 291.605 | 93.076174 | 0.000   | 525320.549 | 4675002.584 | 91.547680  | 43.574   | 397.179782 | 297.893112 | 34.866    |
| CIRC. |    | 300.000 | 90.938373 | 0.000   | 525328.877 | 4675003.635 | 91.621920  | 51.969   | 397.254021 | 299.753929 | 26.519    |
| CIRC. |    | 320.000 | 85.845415 | 0.000   | 525348.541 | 4675007.261 | 90.724597  | 71.945   | 396.356699 | 330.221778 | 7.708     |

EJE : 1: EJE RUA SEVERINO COBAS

BR : BR10 X: 525355.396 Y: 4675003.738 Z: 42.700

BO : BR11 X: 525277.358 Y: 4674996.816 Z: 41.806

Distancia: 78.344 Azimut: 294.3679

| TIPO  | PK | Estacc. | Azimut    | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|-----------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. |    | 240.000 | 80.497111 | 0.000   | 525269.601 | 4674995.200 | 293.685202 | 86.219   | 399.317304 | 286.922312 | 7.923     |
| CLOT. |    | 255.882 | 89.120795 | 0.000   | 525285.022 | 4674998.951 | 295.676127 | 70.537   | 1.308229   | 82.704101  | 7.955     |
| CLOT. |    | 260.000 | 91.140750 | 0.000   | 525289.090 | 4674999.584 | 296.017165 | 66.436   | 1.649267   | 85.248071  | 12.054    |
| CLOT. |    | 277.205 | 94.909639 | 0.000   | 525306.207 | 4675001.296 | 296.842636 | 49.250   | 2.474737   | 90.191246  | 29.195    |
| CLOT. |    | 280.000 | 94.840559 | 0.000   | 525308.993 | 4675001.521 | 296.960306 | 46.456   | 2.592407   | 90.601224  | 31.983    |
| CIRC. |    | 291.605 | 93.076174 | 0.000   | 525320.549 | 4675002.584 | 297.893112 | 34.866   | 3.525213   | 91.547680  | 43.574    |
| CIRC. |    | 300.000 | 90.938373 | 0.000   | 525328.877 | 4675003.635 | 299.753929 | 26.519   | 5.386030   | 91.621920  | 51.969    |
| CIRC. |    | 320.000 | 85.845415 | 0.000   | 525348.541 | 4675007.261 | 330.221778 | 7.708    | 35.853879  | 90.724597  | 71.945    |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*  
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BR : BR10 X: 525355.396 Y: 4675003.738 Z: 42.700  
BO : BR9 X: 525433.358 Y: 4675046.544 Z: 41.490

Distancia: 88.941 Azimut: 68.0339

| TIPO  | PK | Estacc. | Azimut    | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|-----------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. |    | 320.000 | 85.845415 | 0.000   | 525348.541 | 4675007.261 | 330.221778 | 7.708    | 262.187924 | 272.387752 | 93.473    |
| CIRC. |    | 340.000 | 80.752457 | 0.000   | 525367.851 | 4675012.447 | 61.154337  | 15.198   | 393.120483 | 269.446967 | 73.850    |
| CIRC. |    | 360.000 | 75.659499 | 0.000   | 525386.686 | 4675019.159 | 70.849154  | 34.883   | 2.815301   | 266.219377 | 54.114    |
| CLOT. |    | 372.174 | 72.559424 | 0.000   | 525397.865 | 4675023.974 | 71.692423  | 47.044   | 3.658569   | 263.941288 | 42.061    |
| CLOT. |    | 380.000 | 71.108081 | 0.000   | 525404.933 | 4675027.334 | 71.699707  | 54.870   | 3.665853   | 262.165740 | 34.307    |
| CLOT. |    | 386.574 | 70.725959 | 0.000   | 525410.830 | 4675030.240 | 71.609154  | 61.443   | 3.575301   | 260.118024 | 27.809    |
| CLOT. |    | 400.000 | 71.299740 | 0.000   | 525422.879 | 4675036.162 | 71.485074  | 74.869   | 3.451220   | 250.296835 | 14.751    |

EJE : 1: EJE RUA SEVERINO COBAS

BR : BR9 X: 525433.358 Y: 4675046.544 Z: 41.490  
BO : BR10 X: 525355.396 Y: 4675003.738 Z: 42.700

Distancia: 88.941 Azimut: 268.0339

| TIPO  | PK | Estacc. | Azimut    | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|-----------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. |    | 320.000 | 85.845415 | 0.000   | 525348.541 | 4675007.261 | 272.387752 | 93.473   | 4.353898   | 330.221778 | 7.708     |
| CIRC. |    | 340.000 | 80.752457 | 0.000   | 525367.851 | 4675012.447 | 269.446967 | 73.850   | 1.413113   | 61.154337  | 15.198    |
| CIRC. |    | 360.000 | 75.659499 | 0.000   | 525386.686 | 4675019.159 | 266.219377 | 54.114   | 398.185523 | 70.849154  | 34.883    |
| CLOT. |    | 372.174 | 72.559424 | 0.000   | 525397.865 | 4675023.974 | 263.941288 | 42.061   | 395.907435 | 71.692423  | 47.044    |
| CLOT. |    | 380.000 | 71.108081 | 0.000   | 525404.933 | 4675027.334 | 262.165740 | 34.307   | 394.131887 | 71.699707  | 54.870    |
| CLOT. |    | 386.574 | 70.725959 | 0.000   | 525410.830 | 4675030.240 | 260.118024 | 27.809   | 392.084170 | 71.609154  | 61.443    |
| CLOT. |    | 400.000 | 71.299740 | 0.000   | 525422.879 | 4675036.162 | 250.296835 | 14.751   | 382.262981 | 71.485074  | 74.869    |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*  
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BR : BR9 X: 525433.358 Y: 4675046.544 Z: 41.490  
BO : BR8 X: 525573.819 Y: 4675081.471 Z: 40.373

Distancia: 144.738 Azimut: 84.4845

| TIPO  | PK | Estacc. | Azimut    | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|-----------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CLOT. |    | 400.000 | 71.299740 | 0.000   | 525422.879 | 4675036.162 | 250.296835 | 14.751   | 165.812333 | 281.434983 | 157.593   |
| CIRC. |    | 408.796 | 72.297860 | 0.000   | 525430.824 | 4675039.938 | 223.319499 | 7.076    | 138.834998 | 282.004444 | 148.905   |
| CIRC. |    | 420.000 | 73.882875 | 0.000   | 525441.041 | 4675044.534 | 116.291049 | 7.942    | 31.806547  | 282.726729 | 137.820   |
| CIRC. |    | 440.000 | 76.712296 | 0.000   | 525459.553 | 4675052.100 | 86.693454  | 26.778   | 2.208952   | 283.983237 | 117.980   |
| CIRC. |    | 460.000 | 79.541718 | 0.000   | 525478.382 | 4675058.837 | 83.031926  | 46.672   | 398.547424 | 285.175653 | 98.084    |
| CLOT. |    | 465.559 | 80.328121 | 0.000   | 525483.667 | 4675060.560 | 82.702417  | 52.225   | 398.217915 | 285.490084 | 92.545    |
| CLOT. |    | 480.000 | 82.709829 | 0.000   | 525497.500 | 4675064.706 | 82.433853  | 66.664   | 397.949351 | 286.233915 | 78.139    |
| CIRC. |    | 487.337 | 84.179278 | 0.000   | 525504.589 | 4675066.594 | 82.532607  | 73.999   | 398.048105 | 286.524326 | 70.810    |
| CIRC. |    | 500.000 | 86.866548 | 0.000   | 525516.926 | 4675069.449 | 82.969437  | 86.650   | 398.484935 | 286.742382 | 58.150    |
| CIRC. |    | 520.000 | 91.110680 | 0.000   | 525536.624 | 4675072.890 | 84.097188  | 106.573  | 399.612686 | 285.565889 | 38.172    |
| CIRC. |    | 540.000 | 95.354812 | 0.000   | 525556.507 | 4675075.012 | 85.537627  | 126.397  | 1.053125   | 277.265500 | 18.478    |





EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*  
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BR : BR8 X: 525573.819 Y: 4675081.471 Z: 40.373  
BO : BR9 X: 525433.358 Y: 4675046.544 Z: 41.490

Distancia: 144.738 Azimut: 284.4845

| TIPO  | PK | Estacc. | Azimut    | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|-----------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CLOT. |    | 400.000 | 71.299740 | 0.000   | 525422.879 | 4675036.162 | 281.434983 | 157.593  | 396.950481 | 250.296835 | 14.751    |
| CIRC. |    | 408.796 | 72.297860 | 0.000   | 525430.824 | 4675039.938 | 282.004444 | 148.905  | 397.519942 | 223.319499 | 7.076     |
| CIRC. |    | 420.000 | 73.882875 | 0.000   | 525441.041 | 4675044.534 | 282.726729 | 137.820  | 398.242227 | 116.291049 | 7.942     |
| CIRC. |    | 440.000 | 76.712296 | 0.000   | 525459.553 | 4675052.100 | 283.983237 | 117.980  | 399.498735 | 86.693454  | 26.778    |
| CIRC. |    | 460.000 | 79.541718 | 0.000   | 525478.382 | 4675058.837 | 285.175653 | 98.084   | 0.691151   | 83.031926  | 46.672    |
| CLOT. |    | 465.559 | 80.328121 | 0.000   | 525483.667 | 4675060.560 | 285.490084 | 92.545   | 1.005582   | 82.702417  | 52.225    |
| CLOT. |    | 480.000 | 82.709829 | 0.000   | 525497.500 | 4675064.706 | 286.233915 | 78.139   | 1.749413   | 82.433853  | 66.664    |
| CIRC. |    | 487.337 | 84.179278 | 0.000   | 525504.589 | 4675066.594 | 286.524326 | 70.810   | 2.039824   | 82.532607  | 73.999    |
| CIRC. |    | 500.000 | 86.866548 | 0.000   | 525516.926 | 4675069.449 | 286.742382 | 58.150   | 2.257880   | 82.969437  | 86.650    |
| CIRC. |    | 520.000 | 91.110680 | 0.000   | 525536.624 | 4675072.890 | 285.565889 | 38.172   | 1.081387   | 84.097188  | 106.573   |
| CIRC. |    | 540.000 | 95.354812 | 0.000   | 525556.507 | 4675075.012 | 277.265500 | 18.478   | 392.780999 | 85.537627  | 126.397   |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*  
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BR : BR8 X: 525573.819 Y: 4675081.471 Z: 40.373  
BO : BR7 X: 525786.992 Y: 4675053.331 Z: 39.871

Distancia: 215.022 Azimut: 108.3554

| TIPO  | PK | Estacc. | Azimut     | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|------------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. |    | 540.000 | 95.354812  | 0.000   | 525556.507 | 4675075.012 | 277.265500 | 18.478   | 168.910081 | 305.970835 | 231.502   |
| CIRC. |    | 560.000 | 99.598944  | 0.000   | 525576.488 | 4675075.804 | 171.982371 | 6.264    | 63.626951  | 306.770779 | 211.701   |
| CIRC. |    | 580.000 | 103.843075 | 0.000   | 525596.477 | 4675075.264 | 117.023695 | 23.493   | 8.668276   | 307.296774 | 191.774   |
| CLOT. |    | 582.059 | 104.279942 | 0.000   | 525598.531 | 4675075.132 | 115.984885 | 25.512   | 7.629465   | 307.331866 | 189.718   |
| CLOT. |    | 600.000 | 106.486254 | 0.000   | 525616.401 | 4675073.542 | 111.719775 | 43.314   | 3.364355   | 307.507500 | 171.784   |
| RECTA |    | 603.392 | 106.543479 | 0.000   | 525619.775 | 4675073.195 | 111.342792 | 46.695   | 2.987372   | 307.527302 | 168.393   |
| RECTA |    | 620.000 | 106.543479 | 0.000   | 525636.295 | 4675071.491 | 110.084083 | 63.268   | 1.728663   | 307.634944 | 151.787   |
| RECTA |    | 640.000 | 106.543479 | 0.000   | 525656.190 | 4675069.439 | 109.233849 | 83.245   | 0.878429   | 307.800573 | 131.790   |
| RECTA |    | 660.000 | 106.543479 | 0.000   | 525676.084 | 4675067.387 | 108.712763 | 103.231  | 0.357344   | 308.025452 | 111.795   |
| CLOT. |    | 678.911 | 106.543479 | 0.000   | 525694.895 | 4675065.447 | 108.376940 | 122.132  | 0.021520   | 308.327125 | 92.890    |
| CLOT. |    | 680.000 | 106.551189 | 0.000   | 525695.979 | 4675065.335 | 108.360755 | 123.221  | 0.005336   | 308.348258 | 91.801    |
| CIRC. |    | 698.511 | 109.039029 | 0.000   | 525714.362 | 4675063.181 | 108.238438 | 141.728  | 399.883018 | 308.581626 | 73.295    |
| CIRC. |    | 700.000 | 109.418297 | 0.000   | 525715.836 | 4675062.966 | 108.248735 | 143.218  | 399.893316 | 308.568205 | 71.805    |
| CLOT. |    | 709.228 | 111.768285 | 0.000   | 525724.937 | 4675061.438 | 108.390630 | 152.440  | 0.035210   | 308.269654 | 62.583    |
| CLOT. |    | 720.000 | 113.757525 | 0.000   | 525735.488 | 4675059.272 | 108.687271 | 163.186  | 0.331851   | 307.310869 | 51.846    |
| CLOT. |    | 728.828 | 114.263834 | 0.000   | 525744.101 | 4675057.333 | 108.964533 | 171.984  | 0.609113   | 305.923035 | 43.078    |
| CIRC. |    | 737.816 | 107.835703 | 0.000   | 525752.922 | 4675055.633 | 109.121187 | 180.957  | 0.765767   | 304.294792 | 34.148    |
| CIRC. |    | 740.000 | 104.711716 | 0.000   | 525755.095 | 4675055.418 | 109.087245 | 183.139  | 0.731826   | 304.159622 | 31.965    |
| CLOT. |    | 743.230 | 100.091580 | 0.000   | 525758.322 | 4675055.296 | 108.971607 | 186.350  | 0.616187   | 304.357138 | 28.737    |
| CIRC. |    | 752.234 | 91.341063  | 0.000   | 525767.291 | 4675055.998 | 108.333885 | 195.142  | 399.978466 | 308.566794 | 19.881    |
| CIRC. |    | 760.000 | 87.354432  | 0.000   | 525774.948 | 4675057.291 | 107.616841 | 202.577  | 399.261421 | 320.224528 | 12.679    |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*

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BR : BR7 X: 525786.992 Y: 4675053.331 Z: 39.871

Distancia: 215.022 Azimut: 308.3554

BO : BR8 X: 525573.819 Y: 4675081.471 Z: 40.373

| TIPO  | PK      | Estacc.    | Azimut | Dis.Eje    | X           | Y          | Ang.Azimu. | Dis.Redu   | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|---------|------------|--------|------------|-------------|------------|------------|------------|------------|------------|-----------|
| CIRC. | 540.000 | 95.354812  | 0.000  | 525556.507 | 4675075.012 | 305.970835 | 231.502    | 397.615415 | 277.265500 | 18.478     |           |
| CIRC. | 560.000 | 99.598944  | 0.000  | 525576.488 | 4675075.804 | 306.770779 | 211.701    | 398.415360 | 171.982371 | 6.264      |           |
| CIRC. | 580.000 | 103.843075 | 0.000  | 525596.477 | 4675075.264 | 307.296774 | 191.774    | 398.941354 | 117.023695 | 23.493     |           |
| CLOT. | 582.059 | 104.279942 | 0.000  | 525598.531 | 4675075.132 | 307.331866 | 189.718    | 398.976446 | 115.984885 | 25.512     |           |
| CLOT. | 600.000 | 106.486254 | 0.000  | 525616.401 | 4675073.542 | 307.507500 | 171.784    | 399.152080 | 111.719775 | 43.314     |           |
| RECTA | 603.392 | 106.543479 | 0.000  | 525619.775 | 4675073.195 | 307.527302 | 168.393    | 399.171882 | 111.342792 | 46.695     |           |
| RECTA | 620.000 | 106.543479 | 0.000  | 525636.295 | 4675071.491 | 307.634944 | 151.787    | 399.279524 | 110.084083 | 63.268     |           |
| RECTA | 640.000 | 106.543479 | 0.000  | 525656.190 | 4675069.439 | 307.800573 | 131.790    | 399.445153 | 109.233849 | 83.245     |           |
| RECTA | 660.000 | 106.543479 | 0.000  | 525676.084 | 4675067.387 | 308.025452 | 111.795    | 399.670032 | 108.712763 | 103.231    |           |
| CLOT. | 678.911 | 106.543479 | 0.000  | 525694.895 | 4675065.447 | 308.327125 | 92.890     | 399.971705 | 108.376940 | 122.132    |           |
| CLOT. | 680.000 | 106.551189 | 0.000  | 525695.979 | 4675065.335 | 308.348258 | 91.801     | 399.992838 | 108.360755 | 123.221    |           |
| CIRC. | 698.511 | 109.039029 | 0.000  | 525714.362 | 4675063.181 | 308.581626 | 73.295     | 0.226206   | 108.238438 | 141.728    |           |
| CIRC. | 700.000 | 109.418297 | 0.000  | 525715.836 | 4675062.966 | 308.568205 | 71.805     | 0.212785   | 108.248735 | 143.218    |           |
| CLOT. | 709.228 | 111.768285 | 0.000  | 525724.937 | 4675061.438 | 308.269654 | 62.583     | 399.914235 | 108.390630 | 152.440    |           |
| CLOT. | 720.000 | 113.757525 | 0.000  | 525735.488 | 4675059.272 | 307.310869 | 51.846     | 398.955449 | 108.687271 | 163.186    |           |
| CLOT. | 728.828 | 114.263834 | 0.000  | 525744.101 | 4675057.333 | 305.923035 | 43.078     | 397.567615 | 108.964533 | 171.984    |           |
| CIRC. | 737.816 | 107.835703 | 0.000  | 525752.922 | 4675055.633 | 304.294792 | 34.148     | 395.939372 | 109.121187 | 180.957    |           |
| CIRC. | 740.000 | 104.711716 | 0.000  | 525755.095 | 4675055.418 | 304.159622 | 31.965     | 395.804203 | 109.087245 | 183.139    |           |
| CLOT. | 743.230 | 100.091580 | 0.000  | 525758.322 | 4675055.296 | 304.357138 | 28.737     | 396.001718 | 108.971607 | 186.350    |           |
| CIRC. | 752.234 | 91.341063  | 0.000  | 525767.291 | 4675055.998 | 308.566794 | 19.881     | 0.211374   | 108.333885 | 195.142    |           |
| CIRC. | 760.000 | 87.354432  | 0.000  | 525774.948 | 4675057.291 | 320.224528 | 12.679     | 11.869108  | 107.616841 | 202.577    |           |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*
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BR : BR7 X: 525786.992 Y: 4675053.331 Z: 39.871
BO : BR6 X: 525893.369 Y: 4675139.132 Z: 44.323
Distancia: 136.667 Azimut: 56.7903

| TIPO  | PK | Estacc. | Azimut    | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|---------|-----------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. |    | 760.000 | 87.354432 | 0.000   | 525774.948 | 4675057.291 | 320.224528 | 12.679   | 263.434273 | 261.502002 | 143.950   |
| CIRC. |    | 780.000 | 77.088044 | 0.000   | 525794.152 | 4675062.799 | 41.221039  | 11.870   | 384.430784 | 258.252014 | 125.183   |
| CIRC. |    | 800.000 | 66.821655 | 0.000   | 525812.223 | 4675071.318 | 60.572758  | 30.986   | 3.782502   | 255.682561 | 105.752   |
| CIRC. |    | 820.000 | 56.555267 | 0.000   | 525828.691 | 4675082.628 | 61.010119  | 50.962   | 4.219864   | 254.287413 | 85.883    |
| CLOT. |    | 822.929 | 55.051867 | 0.000   | 525830.942 | 4675084.502 | 60.727434  | 53.882   | 3.937179   | 254.233891 | 82.955    |
| CLOT. |    | 839.257 | 50.861131 | 0.000   | 525842.888 | 4675095.629 | 58.760457  | 70.096   | 1.970202   | 254.717854 | 66.640    |
| CLOT. |    | 840.000 | 50.868164 | 0.000   | 525843.420 | 4675096.147 | 58.677808  | 70.833   | 1.887553   | 254.761299 | 65.898    |
| CIRC. |    | 859.257 | 55.954089 | 0.000   | 525857.583 | 4675109.187 | 57.384999  | 90.016   | 0.594743   | 255.642889 | 46.662    |
| CIRC. |    | 860.000 | 56.332615 | 0.000   | 525858.156 | 4675109.660 | 57.374831  | 90.759   | 0.584576   | 255.634789 | 45.919    |
| CLOT. |    | 876.963 | 64.971806 | 0.000   | 525871.970 | 4675119.482 | 57.890454  | 107.690  | 1.100199   | 252.709476 | 29.052    |
| CLOT. |    | 880.000 | 66.312904 | 0.000   | 525874.577 | 4675121.041 | 58.103517  | 110.705  | 1.313262   | 251.210086 | 26.085    |
| CIRC. |    | 885.902 | 67.742956 | 0.000   | 525879.710 | 4675123.952 | 58.560446  | 116.551  | 1.770191   | 246.645103 | 20.420    |
| CLOT. |    | 898.570 | 69.145530 | 0.000   | 525890.854 | 4675129.977 | 59.526578  | 129.081  | 2.736323   | 217.070806 | 9.494     |
| CLOT. |    | 900.000 | 69.954578 | 0.000   | 525892.122 | 4675130.638 | 59.634778  | 130.494  | 2.844523   | 209.280553 | 8.585     |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*  
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BR : BR6 X: 525893.369 Y: 4675139.132 Z: 44.323  
BO : BR7 X: 525786.992 Y: 4675053.331 Z: 39.871

Distancia: 136.667 Azimut: 256.7903

| TIPO  | PK Estacc. | Azimut    | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|------------|-----------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CIRC. | 760.000    | 87.354432 | 0.000   | 525774.948 | 4675057.291 | 261.502002 | 143.950  | 4.711747   | 320.224528 | 12.679    |
| CIRC. | 780.000    | 77.088044 | 0.000   | 525794.152 | 4675062.799 | 258.252014 | 125.183  | 1.461759   | 41.221039  | 11.870    |
| CIRC. | 800.000    | 66.821655 | 0.000   | 525812.223 | 4675071.318 | 255.682561 | 105.752  | 398.892306 | 60.572758  | 30.986    |
| CIRC. | 820.000    | 56.555267 | 0.000   | 525828.691 | 4675082.628 | 254.287413 | 85.883   | 397.497158 | 61.010119  | 50.962    |
| CLOT. | 822.929    | 55.051867 | 0.000   | 525830.942 | 4675084.502 | 254.233891 | 82.955   | 397.443636 | 60.727434  | 53.882    |
| CLOT. | 839.257    | 50.861131 | 0.000   | 525842.888 | 4675095.629 | 254.717854 | 66.640   | 397.927599 | 58.760457  | 70.096    |
| CLOT. | 840.000    | 50.868164 | 0.000   | 525843.420 | 4675096.147 | 254.761299 | 65.898   | 397.971044 | 58.677808  | 70.833    |
| CIRC. | 859.257    | 55.954089 | 0.000   | 525857.583 | 4675109.187 | 255.642889 | 46.662   | 398.852634 | 57.384999  | 90.016    |
| CIRC. | 860.000    | 56.332615 | 0.000   | 525858.156 | 4675109.660 | 255.634789 | 45.919   | 398.844534 | 57.374831  | 90.759    |
| CLOT. | 876.963    | 64.971806 | 0.000   | 525871.970 | 4675119.482 | 252.709476 | 29.052   | 395.919221 | 57.890454  | 107.690   |
| CLOT. | 880.000    | 66.312904 | 0.000   | 525874.577 | 4675121.041 | 251.210086 | 26.085   | 394.419831 | 58.103517  | 110.705   |
| CIRC. | 885.902    | 67.742956 | 0.000   | 525879.710 | 4675123.952 | 246.645103 | 20.420   | 389.854848 | 58.560446  | 116.551   |
| CLOT. | 898.570    | 69.145530 | 0.000   | 525890.854 | 4675129.977 | 217.070806 | 9.494    | 360.280551 | 59.526578  | 129.081   |
| CLOT. | 900.000    | 69.954578 | 0.000   | 525892.122 | 4675130.638 | 209.280553 | 8.585    | 352.490298 | 59.634778  | 130.494   |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*  
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BR : BR6 X: 525893.369 Y: 4675139.132 Z: 44.323  
BO : BR5 X: 525996.731 Y: 4675082.894 Z: 50.910

Distancia: 117.671 Azimut: 131.7223

| TIPO  | PK       | Estacc.    | Azimut | Dis.Eje    | X           | Y          | Ang.Azimu. | Dis.Redu   | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----------|------------|--------|------------|-------------|------------|------------|------------|------------|------------|-----------|
| CLOT. | 900.000  | 69.954578  | 0.000  | 525892.122 | 4675130.638 | 209.280553 | 8.585      | 77.558252  | 327.257757 | 114.989    |           |
| CIRC. | 902.496  | 74.485351  | 0.000  | 525894.378 | 4675131.704 | 191.406956 | 7.496      | 59.684655  | 328.328270 | 113.396    |           |
| CIRC. | 920.000  | 120.168169 | 0.000  | 525911.494 | 4675132.423 | 122.568867 | 19.327     | 390.846565 | 333.510838 | 98.583     |           |
| CLOT. | 924.092  | 130.848659 | 0.000  | 525915.258 | 4675130.829 | 123.081953 | 23.411     | 391.359652 | 333.855973 | 94.529     |           |
| RECTA | 928.192  | 136.198108 | 0.000  | 525918.771 | 4675128.720 | 124.765003 | 27.454     | 393.042702 | 333.830636 | 90.431     |           |
| RECTA | 940.000  | 136.198108 | 0.000  | 525928.722 | 4675122.362 | 128.198383 | 39.129     | 396.476082 | 333.475194 | 78.632     |           |
| RECTA | 960.000  | 136.198108 | 0.000  | 525945.575 | 4675111.593 | 130.902726 | 59.024     | 399.180425 | 332.547016 | 58.656     |           |
| RECTA | 980.000  | 136.198108 | 0.000  | 525962.428 | 4675100.824 | 132.242348 | 78.973     | 0.520047   | 330.661209 | 38.706     |           |
| RECTA | 1000.000 | 136.198108 | 0.000  | 525979.281 | 4675090.054 | 133.041468 | 98.942     | 1.319167   | 324.789335 | 18.862     |           |
| RECTA | 1020.000 | 136.198108 | 0.000  | 525996.134 | 4675079.285 | 133.572136 | 118.921    | 1.849835   | 210.435861 | 3.658      |           |
| RECTA | 1020.311 | 136.198108 | 0.000  | 525996.396 | 4675079.118 | 133.578989 | 119.232    | 1.856688   | 205.626532 | 3.791      |           |



EJE : 1: EJE RUA SEVERINO COBAS

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\* \* \* DATOS PARA REPLANTEO DE PUNTOS \* \* \*
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BR : BR5 X: 525996.731 Y: 4675082.894 Z: 50.910 Distancia: 117.671 Azimut: 331.7223
BO : BR6 X: 525893.369 Y: 4675139.132 Z: 44.323

| TIPO  | PK | Estacc.  | Azimut     | Dis.Eje | X          | Y           | Ang.Azimu. | Dis.Redu | Angulo 1-2 | Ang.Az(BO) | Dis.R(BO) |
|-------|----|----------|------------|---------|------------|-------------|------------|----------|------------|------------|-----------|
| CLOT. |    | 900.000  | 69.954578  | 0.000   | 525892.122 | 4675130.638 | 327.257757 | 114.989  | 395.535456 | 209.280553 | 8.585     |
| CIRC. |    | 902.496  | 74.485351  | 0.000   | 525894.378 | 4675131.704 | 328.328270 | 113.396  | 396.605969 | 191.406956 | 7.496     |
| CIRC. |    | 920.000  | 120.168169 | 0.000   | 525911.494 | 4675132.423 | 333.510838 | 98.583   | 1.788537   | 122.568867 | 19.327    |
| CLOT. |    | 924.092  | 130.848659 | 0.000   | 525915.258 | 4675130.829 | 333.855973 | 94.529   | 2.133671   | 123.081953 | 23.411    |
| RECTA |    | 928.192  | 136.198108 | 0.000   | 525918.771 | 4675128.720 | 333.830636 | 90.431   | 2.108334   | 124.765003 | 27.454    |
| RECTA |    | 940.000  | 136.198108 | 0.000   | 525928.722 | 4675122.362 | 333.475194 | 78.632   | 1.752893   | 128.198383 | 39.129    |
| RECTA |    | 960.000  | 136.198108 | 0.000   | 525945.575 | 4675111.593 | 332.547016 | 58.656   | 0.824715   | 130.902726 | 59.024    |
| RECTA |    | 980.000  | 136.198108 | 0.000   | 525962.428 | 4675100.824 | 330.661209 | 38.706   | 398.938908 | 132.242348 | 78.973    |
| RECTA |    | 1000.000 | 136.198108 | 0.000   | 525979.281 | 4675090.054 | 324.789335 | 18.862   | 393.067034 | 133.041468 | 98.942    |
| RECTA |    | 1020.000 | 136.198108 | 0.000   | 525996.134 | 4675079.285 | 210.435861 | 3.658    | 278.713560 | 133.572136 | 118.921   |
| RECTA |    | 1020.311 | 136.198108 | 0.000   | 525996.396 | 4675079.118 | 205.626532 | 3.791    | 273.904231 | 133.578989 | 119.232   |