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1.- OBJETO

El presente anejo topográfico tiene por objeto dotar y justificar los datos y cartografía imprescindibles para definir los parámetros geométricos relativos al **Proyecto de Urbanización del Polígono Industrial San Carlos. T.M de Redován (Alicante)**. Los pasos en la elaboración de este trabajo han sido los siguientes:

- Toma de datos en campo del área del estudio.
- Cálculo de dichas observaciones.
- Análisis de los resultados obtenidos.
- Estimación de los parámetros geométricos fundamentales.
- Diseño de los planos necesarios.

2.- ANTECEDENTES

De acuerdo con el encargo recibido por Excmo. Ayuntamiento del Redován, el Equipo Redactor que suscribe, redacta el presente Anejo, que consta de tres actuaciones que se diseñan y localizan de la siguiente manera:

- Comprobación de la cartografía utilizada del área de estudio.
- Situación de las bases de replanteo.
- Definición geométrica, de dicha urbanización.

3.- METODOLOGÍA ADOPTADA

3.1.- SEÑALIZACIÓN

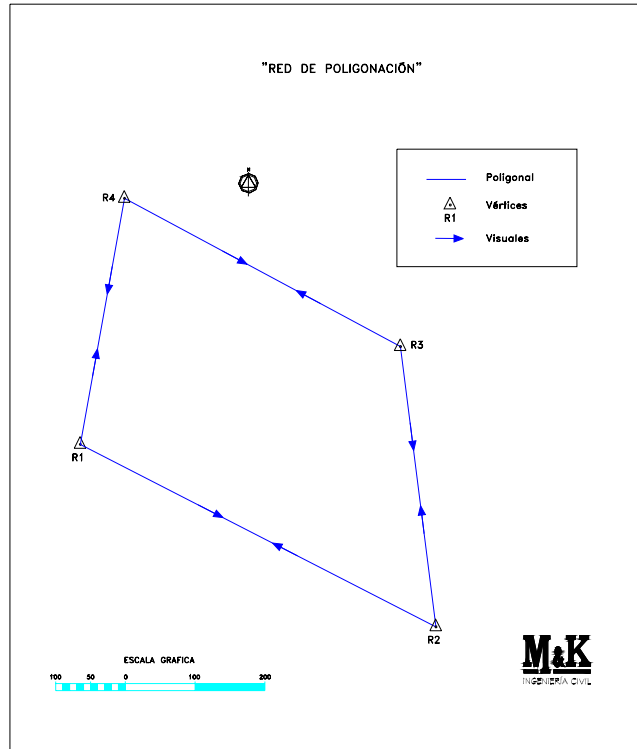
La señalización utilizada en las bases replanteadas: Clavo tipo Geopunto, remarcado con pintura.

3.2.- PLANIMETRÍA

Se ha planificado una **red de poligonación**, para observar toda la superficie, evitando que aparezcan zonas de poca o nula visibilidad. La poligonal es un itinerario cerrado. En ella se ha utilizado el método de radiación, teniendo especial cuidado al visar a los vértices y realizando la regla de Bessel en cada una de las observaciones. Sus características son:

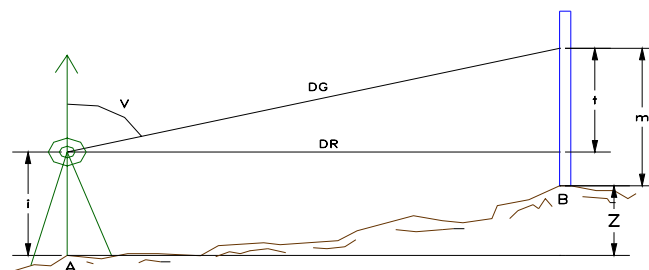
- El vértice principal es R1 es la base de partida y llegada.
- Posee una longitud total de 1787.03 metros
- Tiene un acimut de partida (θ_{R1-R2}) de 130.1903^g.
- Es de 4 ejes.
- Con una distancia media de 447 m, necesaria para cubrir toda la zona de este estudio.

En el cuadro se muestra el diseño de la red de poligonación con todos los vértices, así como las visuales entre ellos. Se observa la buena configuración de la figura, al ser un cuadrilátero bastante regular sin ángulos agudos y en el que las distancias de los ejes no difieren mucho.



3.3.- ALTIMETRÍA

Para calcular la ALTIMETRÍA y teniendo en cuenta que se ha trabajado con una Estación Total, se ha realizado una Nivelación por el Método de Nivelación Trigonométrica o por pendientes. La expresión del cálculo del desnivel entre dos puntos, como se muestra en la figura es:



$$Z_1^2 = t + i - m$$

$$t = DR \cdot \cotg.V$$

Siendo: i = altura del instrumento.

m = altura de la mira.

DR = distancia reducida.

V = ángulo vertical.

4.- DOTACIÓN DE COORDENADAS

4.1.- SISTEMA DE COORDENADAS

Se ha utilizado un **Sistema de Coordenadas U.T.M.**, en todas las actuaciones, ya que era posible la observación a vértices de la Red DGCGCCT y vértices geodésicos desde algunas de las bases del itinerario, además de servirnos como enlace geográfico en futuros trabajos en esa zona.

4.2.- DATOS DE OBSERVACIÓN.

La utilización del *Método de Radiación* en la observación de una poligonal requiere una serie de cuidados como son:

- Señalar cuidadosamente los puntos destacados con clavos, estacas con clavo fino, señales grabadas en bordillo, etc.
- Realizar las visuales a la cabeza del clavo o centro de la señal, para evitar en la medida que sea posible, el error de dirección.
- Utilización de la regla de Bessel que provoca la eliminación de los errores de colimación y eclímetro.
- Medición de las distancias dos veces.

La toma de datos en campo, se ha efectuado cumpliendo todos los requisitos necesarios para aplicar el método.

4.3.- PLANIMETRÍA

Para determinar las coordenadas (x,y) de las bases utilizadas, se ha partido de las coordenadas U.T.M. de la base **R1** y a partir de éstas , con los datos de campo (Ángulo Horizontal, Distancia Reducida) obtenemos las coordenadas de las demás bases. Las coordenadas generales resultantes:

| ESTACIÓN | X | Y |
|----------|------------|-------------|
| R1 | 681278.194 | 4222676.382 |
| R2 | 681788.359 | 4222414.516 |
| R3 | 681737.451 | 4222816.755 |
| R4 | 681341.608 | 4223029.486 |

A partir de las coordenadas de los puntos de estación y de los datos de campo, se obtienen las coordenadas de todos los puntos radiados.

4.4.- ALTIMETRÍA

Para determinar la cota de las bases (Nivelación Trigonométrica), se ha partido de las coordenadas sobre el nivel del mar de la base R1, a partir de esta cota, y de los datos de campo (Ángulo Cenital, Distancia Reducida y cabeza de mira), se halla la cota de los demás vértices.

| ESTACIÓN | Z |
|----------|-------|
| R1 | 38.34 |
| R2 | 65.13 |
| R3 | 73.77 |
| R4 | 40.00 |

Una vez conocida la cota de las estaciones desde donde se han radiado todos los puntos, se calcula la cota de cada uno.

5.- MOVIMIENTO DE TIERRAS.

Para el cálculo de volúmenes se extraen perfiles transversales de toda la zona afectada, entre el terreno y el proyecto a construir. Este método es el más preciso para realizar el movimiento de tierras de las calles y manzanas. El diseño de los perfiles transversales en cada zona, así como su disposición se observan en el plano N°4.1. PLANTA GUIA DE PERFILES.

El volumen total en viales:

| | |
|---------------------------------|---------------------------|
| <i>Superficie de Desmante:</i> | 2.731.556 m ² |
| <i>Superficie de Terraplén:</i> | 128.885 m ² |
| <i>Volumen de Desmante:</i> | 48.822.659 m ³ |
| <i>Volumen de Terraplén:</i> | 2.477.324 m ³ |

Se observa que el movimiento de tierras está descompensado debido a la orografía del terreno en la parte superior del Camino de la Sierra, ya que el proyecto se ha diseñado intentando realizar la mínima cubicación posible, pero cumpliendo con unas pendientes en viales, razonables para la circulación de vehículos.

A continuación se acompañan los listados correspondientes al cálculo del movimiento de tierras obtenido. Teniendo en cuenta el paquete de firme.

CALLE-1

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------------|------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los | DESMONTES | TERRAPLENES |
| | DESMONTES m2 | TERRAPLENES m2 | perfiles | — | — |
| | | | — | — | — |
| | | | metros | m3 | m3 |
| 0.000 | 8.010 | 0.000 | — | — | — |
| 20.000 | 8.929 | 0.000 | 20.000 | 169.383 | 0.000 |
| 40.000 | 9.409 | 0.000 | 20.000 | 183.376 | 0.000 |
| 60.000 | 9.762 | 0.000 | 20.000 | 191.712 | 0.000 |
| 80.000 | 8.995 | 0.000 | 20.000 | 187.573 | 0.000 |
| 100.000 | 8.847 | 0.000 | 20.000 | 178.418 | 0.000 |
| 120.000 | 8.651 | 0.000 | 20.000 | 174.972 | 0.000 |
| 140.000 | 8.478 | 0.000 | 20.000 | 171.283 | 0.000 |
| 160.000 | 7.991 | 0.000 | 20.000 | 164.689 | 0.000 |
| 180.000 | 7.944 | 0.000 | 20.000 | 159.355 | 0.000 |
| 200.000 | 8.080 | 0.000 | 20.000 | 160.248 | 0.000 |
| 220.000 | 8.232 | 0.000 | 20.000 | 163.128 | 0.000 |
| 240.000 | 8.596 | 0.000 | 20.000 | 168.281 | 0.000 |
| 260.000 | 9.322 | 0.000 | 20.000 | 179.177 | 0.000 |
| 280.000 | 9.320 | 0.000 | 20.000 | 186.422 | 0.000 |
| 300.000 | 4.617 | 0.000 | 20.000 | 139.372 | 0.000 |
| 320.000 | 7.473 | 0.000 | 20.000 | 120.905 | 0.000 |
| 340.000 | 7.114 | 0.059 | 20.000 | 145.878 | 0.587 |
| 360.000 | 9.570 | 0.000 | 20.000 | 166.844 | 0.587 |
| 380.000 | 8.641 | 0.000 | 20.000 | 182.115 | 0.000 |
| 400.000 | 12.170 | 0.000 | 20.000 | 208.115 | 0.000 |

MOVIMIENTO DE TIERRAS

PERFILES

| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
|----------------------|-----------------------|-------------------|-----------------------|-------------------|-------------|
| Número de P.K. | S U P E R F I C I E S | | entre los perfiles | DESMONTES | TERRAPLENES |
| | DESMONTES m2 | TERRAPLENES m2 | — metros | — m3 | — m3 |
| 400.000 | 12.170 | 0.000 | 20.000 | 238.041 | 0.000 |
| 420.000 | 11.634 | 0.000 | 20.000 | 235.153 | 0.000 |
| 440.000 | 11.881 | 0.000 | 20.000 | 225.599 | 0.000 |
| 460.000 | 10.679 | 0.000 | 20.000 | 208.469 | 0.000 |
| 480.000 | 10.168 | 0.000 | 20.000 | 156.052 | 17.561 |
| 500.000 | 5.437 | 1.756 | 20.000 | 106.477 | 32.615 |
| 520.000 | 5.211 | 1.505 | 20.000 | 177.787 | 22.653 |
| 540.000 | 12.568 | 0.760 | 20.000 | 221.311 | 13.638 |
| 560.000 | 9.563 | 0.604 | 20.000 | 202.949 | 10.170 |
| 580.000 | 10.732 | 0.413 | 20.000 | 214.160 | 5.760 |
| 600.000 | 10.684 | 0.163 | 20.000 | 210.048 | 3.028 |
| 620.000 | 10.321 | 0.140 | 20.000 | 177.710 | 16.720 |
| 640.000 | 7.450 | 1.532 | 20.000 | 144.669 | 15.726 |
| 660.000 | 7.016 | 0.040 | 40.000 | 243.440 | 31.403 |
| 700.000 | 5.156 | 1.530 | 20.000 | 137.778 | 15.797 |
| 720.000 | 8.622 | 0.050 | 20.000 | 209.721 | 0.875 |
| 740.000 | 12.350 | 0.038 | 20.000 | 278.555 | 0.375 |
| 760.000 | 15.506 | 0.000 | 20.000 | 298.502 | 0.006 |
| 780.000 | 14.345 | 0.001 | 20.000 | 240.373 | 0.722 |
| 800.000 | 9.693 | 0.072 | 20.000 | 221.401 | 0.716 |
| 820.000 | 12.447 | 0.000 | | | |

MOVIMIENTO DE TIERRAS

PERFILES

| Número de P.K. | P E R F I L E S | | DISTANCIAS entre los perfiles — metros | V O L U M E N E S | |
|----------------------|-----------------|-------------------|--|-------------------|-------------------|
| | DESMONTE m2 | TERRAPLENES m2 | | DESMONTE m3 | TERRAPLENES m3 |
| 820.000 | 12.447 | 0.000 | 20.000 | 846.798 | 0.000 |
| 840.000 | 72.232 | 0.000 | 20.000 | 880.816 | 0.000 |
| 860.000 | 15.849 | 0.000 | 20.000 | 360.995 | 0.000 |
| 880.000 | 20.250 | 0.000 | 20.000 | 500.662 | 0.000 |
| 900.000 | 29.816 | 0.000 | 20.000 | 458.359 | 0.000 |
| 920.000 | 16.020 | 0.000 | | | |

Superficie total de Desmonte = 535.782 m2

Superficie total de Terraplén = 8.662 m2

Volumen total de Desmonte = 10597.070 m3

Volumen total de Terraplén = 188.937 m3

Calle-2

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------|--------------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los perfiles | DESMONTES | TERRAPLENES |
| | DESMONTES | TERRAPLENES | — | — | — |
| | m2 | m2 | metros | m3 | m3 |
| 0.000 | 14.328 | 0.000 | 20.000 | 630.419 | 0.000 |
| 20.000 | 48.714 | 0.000 | 20.000 | 928.238 | 0.000 |
| 40.000 | 44.110 | 0.000 | 20.000 | 925.693 | 0.000 |
| 60.000 | 48.459 | 0.000 | 20.000 | 1108.657 | 0.000 |
| 80.000 | 62.407 | 0.000 | 20.000 | 1397.831 | 0.000 |
| 100.000 | 77.377 | 0.000 | 20.000 | 1430.735 | 0.000 |
| 120.000 | 65.697 | 0.000 | | | |

Superficie total de Desmonte = 361.091 m2

Superficie total de Terraplén = 0.000 m2

Volumen total de Desmonte = 6421.574 m3

Volumen total de Terraplén = 0.000 m3

Calle-3

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------------|-------------|--|-------------------|-------------|
| Número de P.K. | P E R F I L E S | | DISTANCIAS entre los perfiles — metros | V O L U M E N E S | |
| | DES-MONTES | TERRAPLENES | | DES-MONTES | TERRAPLENES |
| | S U P E R F I C I E S m2 | | | | |
| 0.000 | 8.533 | 0.082 | — | — | — |
| 20.000 | 11.279 | 0.000 | 20.000 | 198.121 | 0.818 |
| 40.000 | 11.380 | 0.000 | 20.000 | 226.590 | 0.000 |
| 60.000 | 12.438 | 0.000 | 20.000 | 238.171 | 0.000 |
| 80.000 | 8.767 | 0.097 | 20.000 | 212.044 | 0.973 |
| 100.000 | 16.322 | 0.000 | 20.000 | 250.888 | 0.973 |
| 120.000 | 18.262 | 0.000 | 20.000 | 345.835 | 0.000 |
| 140.000 | 12.085 | 0.000 | 20.000 | 303.468 | 0.000 |
| 160.000 | 4.278 | 1.721 | 20.000 | 163.637 | 17.213 |
| 180.000 | 3.942 | 1.725 | 20.000 | 82.202 | 34.466 |
| 200.000 | 2.243 | 2.305 | 20.000 | 61.850 | 40.308 |
| 220.000 | 1.494 | 4.549 | 20.000 | 37.370 | 68.541 |
| 240.000 | 0.412 | 5.726 | 20.000 | 19.057 | 102.743 |
| 260.000 | 16.112 | 0.026 | 20.000 | 165.241 | 57.521 |

Superficie total de Desmorte = 127.546 m2

Superficie total de Terraplén = 16.232 m2

Volumen total de Desmorte = 2304.472 m3

Volumen total de Terraplén = 323.554 m3

Calle-4

| MOVIMIENTO DE TIERRAS | | | | PERFILES | | |
|-----------------------|------------------------------------|----------------|-------------------------------|-------------------|-------------|--|
| Número de P.K. | P E R F I L E S | | DISTANCIAS entre los perfiles | V O L U M E N E S | | |
| | S U P E R F I C I E S DESMONTES m2 | TERRAPLENES m2 | | DES MONTES | TERRAPLENES | |
| | | | — metros | — m3 | — m3 | |
| 0.000 | 43.672 | 0.000 | — | — | — | |
| 20.000 | 28.548 | 0.000 | 20.000 | 722.202 | 0.000 | |
| 40.000 | 16.213 | 0.000 | 20.000 | 447.613 | 0.000 | |
| 60.000 | 7.940 | 0.207 | 20.000 | 241.533 | 2.071 | |
| 80.000 | 4.203 | 0.538 | 20.000 | 121.434 | 7.455 | |
| 100.000 | 2.204 | 1.118 | 20.000 | 64.070 | 16.560 | |
| 120.000 | 15.272 | 0.000 | 20.000 | 174.766 | 11.176 | |

Superficie total de Desmonte = 118.053 m2

Superficie total de Terraplén = 1.863 m2

Volumen total de Desmonte = 1771.618 m3

Volumen total de Terraplén = 37.263 m3

Calle-5

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------------|-------------------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los | DESMONTES | TERRAPLENES |
| | DESMONTES m2 | TERRAPLENES m2 | perfiles — metros | — m3 | — m3 |
| 0.000 | 4.719 | 0.000 | 20.000 | 47.193 | 43.210 |
| 20.000 | 0.000 | 4.321 | 20.000 | 0.000 | 129.186 |
| 40.000 | 0.000 | 8.598 | 20.000 | 0.000 | 165.497 |
| 60.000 | 0.000 | 7.952 | 20.000 | 0.202 | 95.840 |
| 80.000 | 0.020 | 1.632 | 20.000 | 47.915 | 16.319 |
| 100.000 | 4.771 | 0.000 | 20.000 | 71.888 | 1.279 |
| 120.000 | 2.417 | 0.128 | 20.000 | 60.754 | 1.498 |
| 140.000 | 3.658 | 0.022 | 20.000 | 70.831 | 0.219 |
| 160.000 | 3.425 | 0.000 | 20.000 | 128.648 | 0.000 |
| 180.000 | 9.440 | 0.000 | 16.258 | 138.943 | 4.231 |
| 196.258 | 7.653 | 0.520 | | | |

Superficie total de Desmonte = 36.104 m2
Superficie total de Terraplén = 23.173 m2
Volumen total de Desmonte = 566.374 m3
Volumen total de Terraplén = 457.279 m3

Calle-6

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------|------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los | DESMONTES | TERRAPLENES |
| | DESMONTES | TERRAPLENES | perfiles | — | — |
| | m2 | m2 | — | — | — |
| | | | metros | m3 | m3 |
| 0.000 | 7.661 | 0.000 | 20.000 | 76.670 | 14.375 |
| 20.000 | 0.006 | 1.438 | 20.000 | 0.058 | 116.417 |
| 40.000 | 0.000 | 10.204 | 20.000 | 0.000 | 142.340 |
| 60.000 | 0.000 | 4.030 | 20.000 | 4.782 | 44.166 |
| 80.000 | 0.478 | 0.387 | 20.000 | 42.302 | 3.874 |
| 100.000 | 3.752 | 0.001 | 20.000 | 109.072 | 0.006 |
| 120.000 | 7.155 | 0.000 | 20.000 | 149.140 | 0.000 |
| 140.000 | 7.759 | 0.000 | 20.000 | 461.495 | 0.000 |
| 160.000 | 38.391 | 0.000 | 20.000 | 719.553 | 0.000 |
| 180.000 | 33.564 | 0.000 | 20.000 | 783.600 | 0.000 |
| 200.000 | 44.796 | 0.000 | | | |

Superficie total de Desmonte = 143.562 m2

Superficie total de Terraplén = 16.059 m2

Volumen total de Desmonte = 2346.672 m3

Volumen total de Terraplén = 321.178 m3

Calle-7

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------------|------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los | DESMONTES | TERRAPLENES |
| | DESMONTES m2 | TERRAPLENES m2 | perfiles | — | — |
| | | | — | — | — |
| | | | metros | m3 | m3 |
| 0.000 | 5.112 | 0.000 | 20.000 | 51.122 | 51.991 |
| 20.000 | 0.000 | 5.199 | 20.000 | 0.000 | 122.584 |
| 40.000 | 0.000 | 7.059 | 20.000 | 0.000 | 94.974 |
| 60.000 | 0.000 | 2.438 | 20.000 | 17.837 | 27.451 |
| 80.000 | 1.784 | 0.307 | 20.000 | 208.042 | 3.071 |
| 100.000 | 19.020 | 0.000 | 20.000 | 302.122 | 0.000 |
| 120.000 | 11.192 | 0.000 | 20.000 | 327.816 | 0.000 |
| 140.000 | 21.590 | 0.000 | | | |

Superficie total de Desmonte = 58.698 m2
Superficie total de Terraplén = 15.004 m2
Volumen total de Desmonte = 906.939 m3
Volumen total de Terraplén = 300.070 m3

Calle-8

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------|----------------|-------------------------------|-------------------|----------------|
| Número de P.K. | P E R F I L E S | | DISTANCIAS entre los perfiles | V O L U M E N E S | |
| | DESMONTES m2 | TERRAPLENES m2 | | DESMONTES m3 | TERRAPLENES m3 |
| 0.000 | 8.988 | 0.000 | — | — | — |
| 20.000 | 11.949 | 0.000 | 20.000 | 209.370 | 0.000 |
| 40.000 | 15.367 | 0.000 | 20.000 | 273.156 | 0.000 |
| 60.000 | 31.876 | 0.000 | 20.000 | 472.433 | 0.000 |

Superficie total de Desmorte = 68.180 m2
Superficie total de Terraplén = 0.000 m2
Volumen total de Desmorte = 954.959 m3
Volumen total de Terraplén = 0.000 m3

Calle-9

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------|--------------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los perfiles | DESMONTES | TERRAPLENES |
| | DESMONTES | TERRAPLENES | — | — | — |
| | m2 | m2 | metros | m3 | m3 |
| 0.000 | 10.359 | 0.000 | 20.000 | 442.157 | 0.000 |
| 20.000 | 33.857 | 0.000 | 20.000 | 855.545 | 0.000 |
| 40.000 | 51.697 | 0.000 | 20.000 | 1192.083 | 0.000 |
| 60.000 | 67.511 | 0.000 | 20.000 | 1600.566 | 0.000 |
| 80.000 | 92.546 | 0.000 | 20.000 | 2179.294 | 0.000 |
| 100.000 | 125.384 | 0.000 | 20.000 | 2854.963 | 0.000 |
| 120.000 | 160.113 | 0.000 | 20.000 | 3475.022 | 0.000 |
| 140.000 | 187.390 | 0.000 | 20.000 | 3962.767 | 0.000 |
| 160.000 | 208.887 | 0.000 | | | |

Superficie total de Desmorte = 937.743 m2
Superficie total de Terraplén = 0.000 m2
Volumen total de Desmorte = 16562.398 m3
Volumen total de Terraplén = 0.000 m3

Calle-10

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------|--------------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los perfiles | DESMONTES | TERRAPLENES |
| | DESMONTES | TERRAPLENES | — | — | — |
| | m2 | m2 | metros | m3 | m3 |
| 0.000 | 4.892 | 0.000 | — | — | — |
| 20.000 | 5.180 | 0.000 | 20.000 | 100.721 | 0.000 |
| 40.000 | 5.913 | 0.000 | 20.000 | 110.927 | 0.000 |
| 60.000 | 6.724 | 0.000 | 20.000 | 126.373 | 0.000 |
| 80.000 | 8.233 | 0.000 | 20.000 | 149.574 | 0.000 |
| 100.000 | 10.202 | 0.000 | 20.000 | 184.348 | 0.000 |
| 120.000 | 10.700 | 0.000 | 20.000 | 209.019 | 0.000 |
| 140.000 | 10.049 | 0.000 | 20.000 | 207.493 | 0.000 |
| 160.000 | 9.276 | 0.000 | 20.000 | 193.249 | 0.000 |
| 180.000 | 8.841 | 0.000 | 20.000 | 181.165 | 0.000 |
| 200.000 | 10.349 | 0.000 | 20.000 | 191.899 | 0.000 |
| 220.000 | 7.086 | 0.000 | 20.000 | 174.350 | 0.000 |
| 229.839 | 8.392 | 0.000 | 9.839 | 76.141 | 0.000 |

Superficie total de Desmorte = 105.837 m2

Superficie total de Terraplén = 0.000 m2

Volumen total de Desmorte = 1905.259 m3

Volumen total de Terraplén = 0.000 m3

Calle-11

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------|-------------|-------------------------------|-------------------|-------------|
| Número de P.K. | P E R F I L E S | | DISTANCIAS entre los perfiles | V O L U M E N E S | |
| | DESMontES | TERRAPLENES | | DESMontES | TERRAPLENES |
| | m2 | m2 | — | — | — |
| | | | metros | m3 | m3 |
| 0.000 | 19.232 | 0.000 | 20.000 | 395.862 | 0.000 |
| 20.000 | 20.355 | 0.000 | 20.000 | 386.656 | 0.000 |
| 40.000 | 18.311 | 0.000 | 20.000 | 349.738 | 0.000 |
| 60.000 | 16.663 | 0.000 | 20.000 | 324.115 | 0.000 |
| 80.000 | 15.749 | 0.000 | 20.000 | 308.139 | 0.000 |
| 100.000 | 15.065 | 0.000 | 20.000 | 301.557 | 0.000 |
| 120.000 | 15.091 | 0.000 | 20.000 | 302.962 | 0.000 |
| 140.000 | 15.206 | 0.000 | 20.000 | 287.353 | 0.000 |
| 160.000 | 13.530 | 0.000 | 20.000 | 220.096 | 1.263 |
| 180.000 | 8.480 | 0.126 | 10.675 | 54.586 | 17.556 |
| 190.675 | 1.747 | 3.163 | | | |

Superficie total de Desmonte = 159.427 m2
Superficie total de Terraplén = 3.289 m2
Volumen total de Desmonte = 2931.064 m3
Volumen total de Terraplén = 18.819 m3

Calle-12

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------|-------------------|--|-------------------|-------------------|
| Número de P.K. | P E R F I L E S | | DISTANCIAS entre los perfiles — metros | V O L U M E N E S | |
| | DESMontES m2 | TERRAPLENES m2 | | DESMontES m3 | TERRAPLENES m3 |
| 0.000 | 1.366 | 0.391 | 20.000 | 15.429 | 18.764 |
| 20.000 | 0.177 | 1.485 | 20.000 | 12.286 | 27.028 |
| 40.000 | 1.052 | 1.218 | 20.000 | 10.933 | 37.194 |
| 60.000 | 0.041 | 2.502 | 20.000 | 1.557 | 40.849 |
| 80.000 | 0.114 | 1.583 | 20.000 | 1.143 | 54.907 |
| 100.000 | 0.000 | 3.907 | 20.000 | 5.587 | 73.467 |
| 120.000 | 0.559 | 3.439 | 20.000 | 9.087 | 70.302 |
| 140.000 | 0.350 | 3.591 | 20.000 | 11.944 | 60.712 |
| 160.000 | 0.844 | 2.480 | 20.000 | 39.488 | 32.247 |
| 180.000 | 3.104 | 0.744 | | | |

Superficie total de Desmonte = 7.608 m2
Superficie total de Terraplén = 21.341 m2
Volumen total de Desmonte = 107.453 m3
Volumen total de Terraplén = 415.471 m3

Calle-13

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------------|---------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los | DESMONTES | TERRAPLENES |
| | DESMONTES m2 | TERRAPLENES m2 | perfiles — | — | — |
| | | | metros | m3 | m3 |
| 0.000 | 0.631 | 0.346 | — | — | — |
| | | | 20.000 | 18.883 | 5.287 |
| 20.000 | 1.257 | 0.182 | — | — | — |
| | | | 20.000 | 32.844 | 2.002 |
| 40.000 | 2.027 | 0.018 | — | — | — |
| | | | 20.000 | 46.817 | 0.178 |
| 60.000 | 2.654 | 0.000 | — | — | — |
| | | | 20.000 | 37.336 | 2.599 |
| 80.000 | 1.079 | 0.260 | — | — | — |
| | | | 20.000 | 15.724 | 6.147 |
| 100.000 | 0.493 | 0.355 | — | — | — |
| | | | 20.000 | 5.755 | 10.049 |
| 120.000 | 0.082 | 0.650 | — | — | — |
| | | | 20.000 | 0.822 | 21.097 |
| 140.000 | 0.000 | 1.460 | — | — | — |
| | | | 20.000 | 0.000 | 28.720 |
| 160.000 | 0.000 | 1.412 | — | — | — |

Superficie total de Desmonte = 8.225 m2

Superficie total de Terraplén = 4.683 m2

Volumen total de Desmonte = 158.182 m3

Volumen total de Terraplén = 76.080 m3

Calle-14

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|----------------|--------------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los perfiles | DESMONTES | TERRAPLENES |
| | DESMONTES m2 | TERRAPLENES m2 | — | — | — |
| | | | metros | m3 | m3 |
| 0.000 | 3.376 | 0.000 | 20.000 | 68.701 | 0.000 |
| 20.000 | 3.494 | 0.000 | 20.000 | 64.687 | 0.000 |
| 40.000 | 2.974 | 0.000 | 20.000 | 46.108 | 0.000 |
| 60.000 | 1.636 | 0.000 | 20.000 | 24.994 | 2.157 |
| 80.000 | 0.863 | 0.216 | 20.000 | 9.910 | 6.906 |
| 100.000 | 0.128 | 0.475 | 20.000 | 2.731 | 9.400 |
| 120.000 | 0.145 | 0.465 | 20.000 | 2.420 | 9.694 |
| 140.000 | 0.097 | 0.504 | 20.000 | 1.515 | 10.688 |
| 160.000 | 0.055 | 0.564 | 20.000 | 1.086 | 11.248 |
| 180.000 | 0.054 | 0.560 | | | |

Superficie total de Desmorte = 12.822 m2
Superficie total de Terraplén = 2.785 m2
Volumen total de Desmorte = 222.150 m3
Volumen total de Terraplén = 50.092 m3

Calle-15

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------------|------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los | DESMONTES | TERRAPLENES |
| | DESMTONES m2 | TERRAPLENES m2 | perfiles | — | — |
| | | | — | — | — |
| | | | metros | m3 | m3 |
| 0.000 | 0.811 | 0.237 | — | — | — |
| | | | 20.000 | 12.709 | 5.875 |
| 20.000 | 0.460 | 0.351 | — | — | — |
| | | | 20.000 | 5.855 | 8.305 |
| 40.000 | 0.126 | 0.480 | — | — | — |
| | | | 20.000 | 1.309 | 12.114 |
| 60.000 | 0.005 | 0.732 | — | — | — |
| | | | 20.000 | 0.052 | 17.368 |
| 80.000 | 0.000 | 1.005 | — | — | — |
| | | | 20.000 | 0.000 | 23.439 |
| 100.000 | 0.000 | 1.339 | — | — | — |
| | | | 20.000 | 1.716 | 18.956 |
| 120.000 | 0.172 | 0.557 | — | — | — |
| | | | 20.000 | 1.716 | 30.517 |
| 140.000 | 0.000 | 2.495 | — | — | — |

| | | |
|--------------------------------------|----------|-------------------|
| Superficie total de Desmonte | = | 1.573 m2 |
| Superficie total de Terraplén | = | 7.194 m2 |
| Volumen total de Desmonte | = | 23.358 m3 |
| Volumen total de Terraplén | = | 116.574 m3 |

Calle-16

| MOVIMIENTO DE TIERRAS | | | PERFILES | | |
|-----------------------|-----------------------|-------------------|------------|-------------------|-------------|
| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
| Número de P.K. | S U P E R F I C I E S | | entre los | DESMONTES | TERRAPLENES |
| | DESMONTES m2 | TERRAPLENES m2 | perfiles | — | — |
| | | | — | — | — |
| | | | metros | m3 | m3 |
| 0.000 | 15.466 | 0.000 | — | — | — |
| | | | 20.000 | 290.859 | 0.000 |
| 20.000 | 13.620 | 0.000 | — | — | — |
| | | | 20.000 | 271.750 | 0.000 |
| 40.000 | 13.555 | 0.000 | — | — | — |
| | | | 20.000 | 270.679 | 0.000 |
| 60.000 | 13.513 | 0.000 | — | — | — |
| | | | 20.000 | 268.649 | 0.000 |
| 80.000 | 13.352 | 0.000 | — | — | — |
| | | | 20.000 | 272.623 | 0.000 |
| 100.000 | 13.910 | 0.000 | — | — | — |
| | | | 20.000 | 139.101 | 11.930 |
| 120.000 | 0.000 | 1.193 | — | — | — |
| | | | 20.000 | 0.000 | 44.714 |
| 140.000 | 0.000 | 3.278 | — | — | — |
| | | | 20.000 | 0.000 | 57.808 |
| 160.000 | 0.000 | 2.502 | — | — | — |
| | | | 20.000 | 5.979 | 28.942 |
| 180.000 | 0.598 | 0.392 | — | — | — |
| | | | 20.000 | 6.555 | 11.509 |
| 200.000 | 0.058 | 0.759 | — | — | — |
| | | | 20.000 | 11.554 | 9.413 |
| 220.000 | 1.098 | 0.182 | — | — | — |
| | | | 20.000 | 25.037 | 2.585 |
| 240.000 | 1.406 | 0.076 | — | — | — |
| | | | 20.000 | 32.499 | 0.764 |
| 260.000 | 1.844 | 0.000 | — | — | — |
| | | | 20.000 | 74.229 | 0.000 |
| 280.000 | 5.579 | 0.000 | — | — | — |
| | | | 20.000 | 90.068 | 0.000 |
| 300.000 | 3.428 | 0.000 | — | — | — |
| | | | 20.000 | 73.145 | 0.000 |
| 320.000 | 3.887 | 0.000 | — | — | — |
| | | | 20.000 | 71.381 | 0.000 |
| 340.000 | 3.252 | 0.000 | — | — | — |
| | | | 20.000 | 57.796 | 0.000 |
| 360.000 | 2.528 | 0.000 | — | — | — |
| | | | 20.000 | 40.883 | 0.000 |
| 380.000 | 1.560 | 0.000 | — | — | — |
| | | | 20.000 | 19.371 | 2.172 |
| 400.000 | 0.377 | 0.217 | — | — | — |

MOVIMIENTO DE TIERRAS

PERFILES

| P E R F I L E S | | | DISTANCIAS | V O L U M E N E S | |
|-----------------|-----------------------|-------------|--------------------|-------------------|-------------|
| Número de P.K. | S U P E R F I C I E S | | entre los perfiles | DESMONTES | TERRAPLENES |
| | DESMONTES | TERRAPLENES | — | — | — |
| | m2 | m2 | metros | m3 | m3 |
| 400.000 | 0.377 | 0.217 | — | — | — |
| 420.000 | 1.719 | 0.000 | 20.000 | 20.959 | 2.172 |

Superficie total de Desmorte = 110.748 m2
Superficie total de Terraplén = 8.600 m2
Volumen total de Desmorte = 2043.117 m3
Volumen total de Terraplén = 172.007 m3

6.- DESCRIPCIÓN DE LOS APARATOS

La toma de datos de campo se ha realizado con un taquímetro electrónico TC600, de la casa LEICA. Las características técnicas del instrumento utilizado son:

| | |
|--------------------------------|--|
| <i>ANTEOJO:</i> | AUMENTOS: 28x DIÁMETRO LIBRE DEL OBJETIVO: 28 mm. DISTANCIA DE MIRA MÍNIMA: 2 m. |
| <i>MEDICIÓN DE ÁNGULOS:</i> | ABSOLUTA, CONTINUA |
| <i>DESVIACIÓN ESTÁNDAR:</i> | Hz. : 5'' V. : 5'' |
| <i>SENSIBILIDAD DEL NIVEL:</i> | BURBUJA DE NIVEL: 4'/2 mm. NIVEL ELECTRÓNICO: 5'' |
| <i>HILO DE PLOMADA ÓPTICO:</i> | En la base nivelante, enfocable, Aumento: 2x |
| <i>PANTALLA:</i> | Posición del anteojo: Y 4 líneas a 16 caracteres |
| <i>TECLADO:</i> | Posición del anteojo: Y 7 teclas de función, presión de obturación: 30g |
| <i>MEDICIÓN DE DISTANCIA:</i> | Frecuencia de medición: 50 Mhz. 30 m. de onda portadora 0.860 μ m infrarroja |
| <i>DESVIACIÓN ESTÁNDAR:</i> | 3 mm. + 3ppm. |

7.- JUSTIFICACIÓN DEL MÉTODO

7.1.- PLANIMETRÍA.

En el método de Radiación hay que tener siempre presente que, el error que se comete en la determinación de un punto destacado crece con la distancia, y puede tener zonas inadmisibles si se levantan puntos próximos desde distancias largas.

En nuestro caso, el área de estudio, ha sido repartida en la toma de puntos entre varias bases, por lo que la zona de radiado desde cada punto de estación es de poca extensión y la visual de mayor longitud será de corta distancia, dando lugar a un error que queda dentro de la tolerancia requerida.

7.2.- ALTIMETRÍA.

Se ha adoptado la nivelación trigonométrica por dos principales motivos. El primer factor es que la toma de datos se realiza a la par que la radiación, con el taquímetro electrónico, reduciendo el tiempo de la observación en campo. Además, al ser ejes cortos, se evitan los errores de refracción y esfericidad terrestre, sin por ello perder la precisión necesaria para la realización del trabajo.

8.- PLANOS

Se realiza una transferencia de los datos de la Estación Total al ordenador por medio del programa informático **TCTOOLS**, que incorpora la Estación Total utilizada.

Una vez en el ordenador, se convierten los datos a formato ASCII para su posterior tratamiento con programas de edición gráfica.

9.- DATOS DE CAMPO.

Se adjuntan listados de datos de campo.

| | | | | | |
|----------|------------|------------|----------|--------|--------|
| R3R20101 | +30.06600 | +101.35400 | +405.545 | +1.560 | +1.543 |
| R3R20102 | +230.05900 | +298.64500 | +0.000 | +1.560 | +1.543 |
| R3R20103 | +230.06000 | +298.64400 | +405.535 | +1.560 | +1.543 |
| R3R20104 | +30.06400 | +101.35300 | +405.536 | +1.560 | +1.543 |
| R3R20105 | +230.05800 | +298.64900 | +405.544 | +1.560 | +1.543 |
| R3R10106 | +119.19200 | +104.69300 | +481.530 | +1.560 | +1.543 |
| R3R10107 | +319.19200 | +295.30800 | +481.533 | +1.560 | +1.543 |
| R3R10108 | +119.19300 | +104.69300 | +481.529 | +1.560 | +1.543 |
| R3R10109 | +319.19100 | +295.30700 | +481.536 | +1.560 | +1.543 |
| R3R40110 | +169.47000 | +104.77900 | +450.651 | +1.560 | +1.543 |
| R3R40111 | +369.47000 | +295.22100 | +450.643 | +1.560 | +1.543 |
| R3R40112 | +169.46900 | +104.78100 | +450.644 | +1.560 | +1.543 |
| R3R40113 | +369.47100 | +295.22000 | +450.657 | +1.560 | +1.543 |
| R2R30114 | +111.37900 | +98.64800 | +405.551 | +1.560 | +1.595 |
| R2R30115 | +311.38200 | +301.35100 | +405.550 | +1.560 | +1.595 |
| R2R30116 | +111.37900 | +98.65100 | +405.545 | +1.560 | +1.595 |
| R2R30117 | +311.37900 | +301.35100 | +405.555 | +1.560 | +1.595 |
| R2R10118 | +49.58400 | +102.97700 | +574.094 | +1.560 | +1.595 |
| R2R10119 | +249.58200 | +297.02400 | +574.071 | +1.560 | +1.595 |
| R2R10120 | +49.58500 | +102.97600 | +574.059 | +1.560 | +1.595 |
| R2R10121 | +249.58100 | +297.02600 | +574.088 | +1.560 | +1.595 |
| R1R20122 | +259.65500 | +97.03100 | +574.088 | +1.560 | +1.583 |
| R1R20123 | +59.65700 | +302.97000 | +574.079 | +1.560 | +1.583 |
| R1R20124 | +259.65400 | +97.03200 | +574.077 | +1.560 | +1.583 |
| R1R20125 | +59.65600 | +302.97200 | +574.070 | +1.560 | +1.583 |
| R1R20126 | +210.57200 | +95.32000 | +481.523 | +1.560 | +1.583 |
| R1R20127 | +10.58200 | +304.68100 | +481.527 | +1.560 | +1.583 |
| R1R20128 | +210.57400 | +95.32100 | +481.525 | +1.560 | +1.583 |
| R1R20129 | +10.58000 | +304.67800 | +481.529 | +1.560 | +1.583 |
| R1R40130 | +340.77800 | +300.28000 | +358.764 | +1.560 | +1.583 |
| R1R40131 | +140.77800 | +99.71800 | +358.743 | +1.560 | +1.583 |
| R1R40132 | +340.77600 | +300.28300 | +358.761 | +1.560 | +1.583 |
| R4R30133 | +249.24200 | +95.23700 | +450.643 | +1.560 | +1.597 |
| R4R30134 | +49.24100 | +304.76400 | +450.647 | +1.560 | +1.597 |
| R4R30135 | +249.24300 | +95.23900 | +450.632 | +1.560 | +1.597 |
| R4R30136 | +49.24200 | +304.76500 | +450.641 | +1.560 | +1.597 |
| R4R10137 | +329.16200 | +100.31100 | +358.754 | +1.560 | +1.597 |
| R4R10138 | +129.15600 | +299.68900 | +358.763 | +1.560 | +1.597 |
| R4R10139 | +329.16400 | +100.31200 | +358.761 | +1.560 | +1.597 |
| R4R10140 | +129.15600 | +299.69100 | +358.784 | +1.560 | +1.597 |
| P1R40141 | +186.88800 | +100.59500 | +155.583 | +1.560 | +1.467 |
| P1R40142 | +386.88800 | +299.40300 | +155.579 | +1.560 | +1.467 |
| P1R40143 | +187.85600 | +101.29200 | +98.433 | +1.560 | +1.467 |
| P1R40144 | +186.73400 | +101.23400 | +99.813 | +1.560 | +1.467 |
| P1R40145 | +184.38600 | +100.78300 | +103.790 | +1.560 | +1.467 |
| P1R40146 | +178.75400 | +101.29200 | +112.628 | +1.560 | +1.467 |
| P1R40147 | +177.98300 | +100.74200 | +114.188 | +1.560 | +1.467 |
| P1R40148 | +173.24900 | +101.25500 | +124.920 | +1.560 | +1.467 |
| P1R40149 | +173.25800 | +100.70500 | +124.836 | +1.560 | +1.467 |
| P1R40150 | +172.94700 | +101.24800 | +123.849 | +1.560 | +1.467 |
| P1R40151 | +178.09900 | +101.28000 | +112.065 | +1.560 | +1.467 |
| P1R40152 | +181.79600 | +101.30200 | +104.760 | +1.560 | +1.467 |
| P1000153 | +185.12000 | +101.39400 | +95.635 | +1.560 | +1.467 |
| P1000154 | +187.21100 | +100.80800 | +99.207 | +1.560 | +1.467 |
| P1000155 | +186.28800 | +101.53700 | +88.978 | +1.560 | +1.467 |
| P1000156 | +185.19600 | +101.80200 | +78.904 | +1.560 | +1.467 |
| P1000157 | +182.09100 | +102.05100 | +71.107 | +1.560 | +1.467 |
| P1000158 | +177.79800 | +102.34200 | +63.860 | +1.560 | +1.467 |
| P1000159 | +164.85800 | +103.03300 | +50.343 | +1.560 | +1.467 |
| P1000160 | +117.60700 | +104.15900 | +37.419 | +1.560 | +1.467 |
| P1000161 | +92.97300 | +103.87300 | +41.039 | +1.560 | +1.467 |

| | | | | | |
|----------|------------|------------|----------|--------|--------|
| P1000162 | +67.62400 | +103.01500 | +53.984 | +1.560 | +1.467 |
| P1000163 | +52.87800 | +102.30700 | +72.117 | +1.560 | +1.467 |
| P1000164 | +47.88100 | +101.97000 | +86.038 | +1.560 | +1.467 |
| P1000165 | +47.62600 | +102.01200 | +84.573 | +1.560 | +1.467 |
| P1000166 | +46.98900 | +102.04100 | +82.100 | +1.560 | +1.467 |
| P1000167 | +45.81600 | +102.09200 | +79.946 | +1.560 | +1.467 |
| P1000168 | +44.30900 | +102.13700 | +78.492 | +1.560 | +1.467 |
| P1000169 | +38.11300 | +102.01600 | +75.890 | +1.560 | +1.467 |
| P1000170 | +40.93500 | +102.31600 | +65.593 | +1.560 | +1.467 |
| P1000171 | +52.14400 | +102.36300 | +71.006 | +1.560 | +1.467 |
| P1000172 | +67.01200 | +103.00500 | +53.433 | +1.560 | +1.467 |
| P1000173 | +81.45000 | +103.50500 | +44.923 | +1.560 | +1.467 |
| P1000174 | +105.33000 | +104.12200 | +37.530 | +1.560 | +1.467 |
| P1000175 | +105.35000 | +103.95500 | +32.766 | +1.560 | +1.467 |
| P1000176 | +112.09000 | +101.95100 | +32.039 | +2.560 | +1.467 |
| P1000177 | +115.18100 | +102.39000 | +36.457 | +2.560 | +1.467 |
| P1000178 | +130.45100 | +104.11600 | +37.112 | +1.560 | +1.467 |
| P1000179 | +142.99500 | +103.79300 | +39.222 | +1.560 | +1.467 |
| P1000180 | +166.61900 | +102.94700 | +50.881 | +1.560 | +1.467 |
| P1000181 | +181.50200 | +102.09900 | +68.846 | +1.560 | +1.467 |
| P1000182 | +190.73900 | +101.57000 | +85.170 | +1.560 | +1.467 |
| P1000183 | +193.54800 | +101.41600 | +89.844 | +1.560 | +1.467 |
| P1000184 | +197.20100 | +101.22600 | +95.885 | +1.560 | +1.467 |
| P1000185 | +176.20700 | +101.35000 | +105.671 | +1.560 | +1.467 |
| P1000186 | +179.32500 | +101.46200 | +98.888 | +1.560 | +1.467 |
| P1000187 | +181.07300 | +101.60300 | +92.471 | +1.560 | +1.467 |
| P1000188 | +181.35500 | +101.76600 | +84.584 | +1.560 | +1.467 |
| P1000189 | +179.39900 | +101.93400 | +77.555 | +1.560 | +1.467 |
| P1000190 | +165.67800 | +102.64700 | +59.373 | +1.560 | +1.467 |
| P1000191 | +144.74100 | +103.49600 | +46.927 | +1.560 | +1.467 |
| P1000192 | +117.83600 | +103.86000 | +43.123 | +1.560 | +1.467 |
| P1000193 | +88.81000 | +103.30900 | +49.048 | +1.560 | +1.467 |
| P1000194 | +69.30800 | +102.77500 | +61.417 | +1.560 | +1.467 |
| P1000195 | +57.81300 | +102.34400 | +74.755 | +1.560 | +1.467 |
| P1000196 | +51.76100 | +101.98700 | +89.327 | +1.560 | +1.467 |
| P1000197 | +53.97300 | +101.92400 | +90.518 | +1.560 | +1.467 |
| P1000198 | +55.58300 | +101.86100 | +90.045 | +1.560 | +1.467 |
| P1000199 | +58.35700 | +101.22800 | +83.180 | +2.560 | +1.467 |
| P1000200 | +57.66800 | +102.07300 | +80.992 | +1.560 | +1.467 |
| P1000201 | +63.95300 | +102.55000 | +69.333 | +1.560 | +1.467 |
| P1000202 | +64.75500 | +102.34500 | +69.480 | +1.560 | +1.467 |
| P1000203 | +80.24000 | +102.82200 | +56.249 | +1.560 | +1.467 |
| P1000204 | +87.43600 | +102.93000 | +52.567 | +1.560 | +1.467 |
| P1000205 | +94.69300 | +103.05100 | +50.062 | +1.560 | +1.467 |
| P1000206 | +123.95200 | +103.27400 | +47.029 | +1.560 | +1.467 |
| P1000207 | +153.66100 | +102.70800 | +55.507 | +1.560 | +1.467 |
| P1000208 | +162.84700 | +102.26300 | +61.824 | +1.560 | +1.467 |
| P1000209 | +169.78900 | +102.00600 | +68.671 | +1.560 | +1.467 |
| P1000210 | +176.79800 | +101.82700 | +78.396 | +1.560 | +1.467 |
| P1000211 | +177.69500 | +101.77800 | +79.905 | +1.560 | +1.467 |
| P1000212 | +179.27500 | +101.68600 | +84.803 | +1.560 | +1.467 |
| P1000213 | +179.36800 | +101.58600 | +90.369 | +1.560 | +1.467 |
| P1000214 | +178.44800 | +101.48600 | +95.706 | +1.560 | +1.467 |
| P1000215 | +176.20600 | +101.40000 | +101.380 | +1.560 | +1.467 |
| P1000216 | +172.38600 | +101.28700 | +108.672 | +1.560 | +1.467 |
| P1000217 | +193.30900 | +101.46500 | +84.611 | +1.560 | +1.467 |
| P1000218 | +195.65100 | +100.71200 | +82.178 | +1.560 | +1.467 |
| P1000219 | +198.04900 | +100.67000 | +86.078 | +1.560 | +1.467 |
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| P1000221 | +201.06600 | +100.61600 | +86.876 | +1.560 | +1.467 |
| P1000222 | +201.48400 | +100.65400 | +86.554 | +1.560 | +1.467 |

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| P1000224 | +211.56800 | +99.94400 | +83.230 | +1.560 | +1.467 |
| P1000225 | +228.23900 | +99.13500 | +78.627 | +1.560 | +1.467 |
| P1000226 | +242.84800 | +98.12700 | +79.356 | +1.560 | +1.467 |
| P1000227 | +253.46200 | +97.33700 | +82.605 | +1.560 | +1.467 |
| P1000228 | +267.07100 | +96.27100 | +91.121 | +1.560 | +1.467 |
| P1R40229 | +08.13200 | +100.57600 | +155.567 | +1.560 | +1.410 |
| P1R40230 | +208.13200 | +299.42700 | +155.581 | +1.560 | +1.410 |
| P1000231 | +15.91600 | +101.13400 | +81.899 | +1.560 | +1.410 |
| P1000232 | +16.40500 | +100.77400 | +81.483 | +1.560 | +1.410 |
| P1000233 | +10.74900 | +100.97600 | +70.932 | +1.560 | +1.410 |
| P1000234 | +10.44400 | +101.58400 | +71.539 | +1.560 | +1.410 |
| P1000235 | +398.73700 | +101.29400 | +52.520 | +1.560 | +1.410 |
| P1000236 | +398.06200 | +102.22800 | +52.773 | +1.560 | +1.410 |
| P1000237 | +383.50000 | +101.76600 | +39.529 | +1.560 | +1.410 |
| P1000238 | +381.84000 | +102.70000 | +39.434 | +1.560 | +1.410 |
| P1000239 | +383.10000 | +101.95100 | +36.981 | +1.560 | +1.410 |
| P1000240 | +382.31300 | +102.87500 | +37.920 | +1.560 | +1.410 |
| P1000241 | +359.87100 | +102.40700 | +30.029 | +1.560 | +1.410 |
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| P1000243 | +335.02100 | +102.63500 | +28.650 | +1.560 | +1.410 |
| P1000244 | +333.14500 | +101.45900 | +29.582 | +2.560 | +1.410 |
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| P1000246 | +333.27900 | +101.09000 | +23.557 | +1.560 | +1.410 |
| P1000247 | +361.34500 | +101.07600 | +24.688 | +1.560 | +1.410 |
| P1000248 | +360.50300 | +102.29900 | +24.998 | +1.560 | +1.410 |
| P1000249 | +388.81900 | +101.71000 | +31.530 | +1.560 | +1.410 |
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| P1000251 | +389.82600 | +101.08000 | +31.163 | +1.560 | +1.410 |
| P1000252 | +319.02200 | +102.61200 | +7.838 | +1.560 | +1.410 |
| P1000253 | +321.88600 | +99.10900 | +7.017 | +1.560 | +1.410 |
| P1000254 | +397.72500 | +101.31000 | +12.358 | +1.560 | +1.410 |
| P1000255 | +398.83000 | +98.92400 | +12.002 | +1.560 | +1.410 |
| P1000256 | +17.81800 | +100.69900 | +22.878 | +1.560 | +1.410 |
| P1000257 | +19.55000 | +99.52700 | +23.214 | +1.560 | +1.410 |
| P1000258 | +19.80900 | +99.77300 | +23.329 | +1.560 | +1.410 |
| P1000259 | +18.80500 | +101.86500 | +24.378 | +1.560 | +1.410 |
| P1000260 | +18.77000 | +100.91000 | +24.253 | +1.560 | +1.410 |
| P1000261 | +21.13200 | +101.56800 | +27.422 | +1.560 | +1.410 |
| P1000262 | +21.20700 | +100.93500 | +27.413 | +1.560 | +1.410 |
| P1000263 | +10.22900 | +102.80000 | +29.453 | +1.560 | +1.410 |
| P1000264 | +10.19400 | +100.65400 | +29.507 | +1.560 | +1.410 |
| P1000265 | +06.85600 | +103.08800 | +26.713 | +1.560 | +1.410 |
| P1000266 | +06.80800 | +100.83200 | +26.654 | +1.560 | +1.410 |
| P1000267 | +02.24100 | +101.61900 | +27.319 | +1.560 | +1.410 |
| P1000268 | +03.04000 | +100.73400 | +26.326 | +1.560 | +1.410 |
| P1000269 | +09.47400 | +101.99700 | +31.212 | +1.560 | +1.410 |
| P1000270 | +08.74300 | +100.81300 | +30.204 | +1.560 | +1.410 |
| P1000271 | +11.09400 | +100.71300 | +30.565 | +1.560 | +1.410 |
| P1000272 | +12.49300 | +100.38600 | +30.789 | +1.560 | +1.410 |
| P1000273 | +12.51700 | +101.31900 | +31.279 | +1.560 | +1.410 |
| P1000274 | +14.37800 | +99.95400 | +31.348 | +1.560 | +1.410 |
| P1000275 | +22.27500 | +99.67000 | +46.485 | +2.560 | +1.410 |
| P1000276 | +23.09000 | +98.50600 | +46.121 | +2.560 | +1.410 |
| P1000277 | +27.58500 | +99.65100 | +63.320 | +2.560 | +1.410 |
| P1000278 | +28.23400 | +98.88300 | +62.928 | +2.560 | +1.410 |
| P1000279 | +31.39700 | +99.70400 | +82.482 | +2.560 | +1.410 |
| P1000280 | +31.92800 | +99.18600 | +82.204 | +2.560 | +1.410 |
| P1000281 | +32.16500 | +99.27000 | +83.233 | +2.560 | +1.410 |
| P1000282 | +46.34400 | +98.67300 | +77.598 | +2.560 | +1.410 |
| P1000283 | +46.72500 | +98.40700 | +77.861 | +2.560 | +1.410 |

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|----------|------------|-----------|---------|--------|--------|
| P1000284 | +48.42500 | +99.69100 | +53.249 | +1.560 | +1.410 |
| P1000285 | +49.30100 | +98.92500 | +53.343 | +1.560 | +1.410 |
| P1000286 | +59.52600 | +99.60500 | +26.141 | +1.560 | +1.410 |
| P1000287 | +59.88100 | +98.27100 | +27.955 | +1.560 | +1.410 |
| P1000288 | +61.04500 | +99.10400 | +25.492 | +1.560 | +1.410 |
| P1000289 | +62.49800 | +97.94600 | +26.394 | +1.560 | +1.410 |
| P1000290 | +66.68100 | +97.73100 | +25.975 | +1.560 | +1.410 |
| P1000291 | +67.78700 | +98.00200 | +25.911 | +1.560 | +1.410 |
| P1000292 | +65.54800 | +99.43500 | +23.883 | +1.560 | +1.410 |
| P1000293 | +63.37400 | +98.40000 | +24.822 | +1.560 | +1.410 |
| P1000294 | +65.88400 | +98.11600 | +24.495 | +1.560 | +1.410 |
| P1000295 | +68.62200 | +97.94100 | +23.585 | +1.560 | +1.410 |
| P1000296 | +102.65500 | +98.45000 | +15.494 | +1.560 | +1.410 |
| P1000297 | +102.80000 | +96.49200 | +15.858 | +1.560 | +1.410 |
| P1000298 | +149.57400 | +97.18800 | +15.322 | +1.560 | +1.410 |
| P1000299 | +148.32700 | +96.91900 | +16.427 | +1.560 | +1.410 |
| P1000300 | +147.47300 | +93.38600 | +16.671 | +1.560 | +1.410 |
| P1000301 | +90.26500 | +96.81400 | +18.823 | +1.560 | +1.410 |
| P1000302 | +91.15300 | +93.37200 | +19.664 | +1.560 | +1.410 |
| P1000303 | +71.24800 | +97.38200 | +25.996 | +1.560 | +1.410 |
| P1000304 | +73.45200 | +95.07100 | +26.075 | +1.560 | +1.410 |
| P1000305 | +73.88000 | +97.17300 | +27.651 | +1.560 | +1.410 |
| P1000306 | +74.17200 | +95.29500 | +26.910 | +1.560 | +1.410 |
| P1000307 | +75.42900 | +95.31700 | +27.887 | +1.560 | +1.410 |
| P1000308 | +74.20200 | +95.71200 | +29.520 | +1.560 | +1.410 |
| P1000309 | +76.19900 | +95.72300 | +27.903 | +1.560 | +1.410 |
| P1000310 | +70.74400 | +96.41300 | +37.802 | +1.560 | +1.410 |
| P1000311 | +68.36100 | +95.83200 | +38.295 | +2.560 | +1.410 |
| P1000312 | +69.73500 | +94.78700 | +38.573 | +2.560 | +1.410 |
| P1000313 | +58.23900 | +97.51400 | +56.759 | +2.560 | +1.410 |
| P1000314 | +59.12300 | +96.39300 | +56.911 | +2.560 | +1.410 |
| P1000315 | +54.42300 | +98.03300 | +75.834 | +2.560 | +1.410 |
| P1000316 | +55.35900 | +97.26800 | +75.621 | +2.560 | +1.410 |
| P1000317 | +55.07400 | +97.48500 | +77.632 | +2.560 | +1.410 |
| P1000318 | +71.97200 | +97.22300 | +79.750 | +2.560 | +1.410 |
| P1000319 | +72.67300 | +96.73700 | +81.512 | +2.560 | +1.410 |
| P1000320 | +73.54200 | +96.44600 | +79.534 | +2.560 | +1.410 |
| P1000321 | +82.37800 | +96.56200 | +62.100 | +2.560 | +1.410 |
| P1000322 | +83.41900 | +95.52700 | +63.078 | +2.560 | +1.410 |
| P1000323 | +94.39300 | +95.78000 | +52.258 | +2.560 | +1.410 |
| P1000324 | +94.02900 | +94.77100 | +54.380 | +2.560 | +1.410 |
| P1000325 | +96.13800 | +94.72700 | +54.289 | +2.560 | +1.410 |
| P1000326 | +96.47800 | +94.82300 | +54.302 | +2.560 | +1.410 |
| P1000327 | +97.39500 | +96.05600 | +52.988 | +2.560 | +1.410 |
| P1000328 | +96.06000 | +95.34700 | +53.400 | +2.560 | +1.410 |
| P1000329 | +97.86600 | +94.83200 | +54.956 | +2.560 | +1.410 |
| P1000330 | +101.03600 | +96.25200 | +55.202 | +2.560 | +1.410 |
| P1000331 | +99.54700 | +95.00300 | +56.362 | +2.560 | +1.410 |
| P1000332 | +100.80500 | +94.92200 | +56.945 | +2.560 | +1.410 |
| P1000333 | +102.89900 | +94.93600 | +56.247 | +2.560 | +1.410 |
| P1000334 | +116.77600 | +95.47800 | +49.862 | +2.560 | +1.410 |
| P1000335 | +117.00900 | +94.51500 | +50.685 | +2.560 | +1.410 |
| P1000336 | +141.67800 | +94.97100 | +46.223 | +2.560 | +1.410 |
| P1000337 | +139.74000 | +94.14400 | +47.855 | +2.560 | +1.410 |
| P1000338 | +141.09200 | +95.26800 | +63.758 | +2.560 | +1.410 |
| P1000339 | +141.29000 | +95.17800 | +59.224 | +2.560 | +1.410 |
| P1000340 | +133.97800 | +95.35400 | +59.570 | +2.560 | +1.410 |
| P1000341 | +134.27900 | +95.37300 | +63.972 | +2.560 | +1.410 |
| P1000342 | +134.26400 | +94.58600 | +64.818 | +2.560 | +1.410 |
| P1000343 | +140.99300 | +94.48900 | +63.885 | +2.560 | +1.410 |
| P1000344 | +124.54700 | +95.55600 | +65.738 | +2.560 | +1.410 |

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| P1000345 | +124.42500 | +94.52700 | +67.269 | +2.560 | +1.410 |
| P1000346 | +123.32800 | +94.18200 | +68.455 | +2.560 | +1.410 |
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| P1000349 | +109.83700 | +95.68200 | +70.829 | +2.560 | +1.410 |
| P1000350 | +111.11300 | +94.44200 | +71.393 | +2.560 | +1.410 |
| P1000351 | +109.70800 | +94.84600 | +71.495 | +2.560 | +1.410 |
| P1000352 | +108.82400 | +95.51700 | +70.207 | +2.560 | +1.410 |
| P1000353 | +108.60100 | +94.37200 | +72.206 | +2.560 | +1.410 |
| P1000354 | +98.42000 | +96.06100 | +76.578 | +2.560 | +1.410 |
| P1000355 | +98.72000 | +94.87700 | +78.094 | +2.560 | +1.410 |
| P1000356 | +86.61200 | +96.40500 | +88.342 | +2.560 | +1.410 |
| P1000357 | +87.32000 | +95.55100 | +89.750 | +2.560 | +1.410 |
| P1000358 | +97.11400 | +95.83400 | +98.555 | +2.560 | +1.410 |
| P1000359 | +96.60800 | +95.66000 | +99.695 | +2.560 | +1.410 |
| P1000360 | +97.58900 | +95.63400 | +99.558 | +2.560 | +1.410 |
| P1000361 | +98.22300 | +95.54900 | +97.947 | +2.560 | +1.410 |
| P1000362 | +104.16700 | +95.44500 | +90.427 | +2.560 | +1.410 |
| P1000363 | +104.25600 | +95.23000 | +90.852 | +2.560 | +1.410 |
| P1000364 | +125.75100 | +94.72700 | +78.578 | +2.560 | +1.410 |
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| P1000366 | +126.59200 | +94.83700 | +81.427 | +2.560 | +1.410 |
| P1000367 | +127.58100 | +95.44900 | +81.123 | +2.560 | +1.410 |
| P1000368 | +127.06700 | +94.81900 | +81.323 | +2.560 | +1.410 |
| P1000369 | +129.20300 | +95.25200 | +96.050 | +2.560 | +1.410 |
| P1000370 | +139.84300 | +95.02900 | +95.465 | +2.560 | +1.410 |
| P1000371 | +140.46800 | +94.66500 | +93.514 | +3.650 | +1.410 |
| P1000372 | +139.75300 | +94.32000 | +94.383 | +3.650 | +1.410 |
| P1000373 | +135.05900 | +95.19800 | +93.800 | +3.650 | +1.410 |
| P1000374 | +135.04000 | +94.97100 | +94.729 | +2.560 | +1.410 |
| P1000375 | +130.09000 | +95.99800 | +94.458 | +2.560 | +1.410 |
| P1000376 | +128.81600 | +95.31100 | +95.035 | +2.560 | +1.410 |
| P1000377 | +128.16000 | +94.99800 | +96.184 | +2.560 | +1.410 |
| P1000378 | +117.61900 | +95.45700 | +98.848 | +2.560 | +1.410 |
| P1000379 | +117.90400 | +94.90400 | +99.997 | +2.560 | +1.410 |
| P1000380 | +105.24000 | +95.80900 | +107.541 | +2.560 | +1.410 |
| P1000381 | +105.48700 | +95.37200 | +108.354 | +2.560 | +1.410 |
| P1000382 | +104.18100 | +95.03300 | +110.894 | +3.650 | +1.410 |
| P1000383 | +104.23800 | +95.03300 | +110.860 | +3.650 | +1.410 |
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| P1000387 | +114.07600 | +95.02600 | +133.173 | +3.650 | +1.410 |
| P1000388 | +120.78900 | +95.16300 | +123.748 | +3.650 | +1.410 |
| P1000389 | +120.80800 | +94.71800 | +124.280 | +3.650 | +1.410 |
| P1000390 | +125.02600 | +95.03600 | +121.050 | +3.650 | +1.410 |
| P1000391 | +125.30100 | +94.62000 | +122.140 | +3.650 | +1.410 |
| P1000392 | +125.10200 | +94.99200 | +120.821 | +3.650 | +1.410 |
| P1000393 | +126.37000 | +94.64300 | +121.906 | +3.650 | +1.410 |
| P1000394 | +133.86600 | +95.04100 | +117.808 | +3.650 | +1.410 |
| P1000395 | +133.65900 | +94.48400 | +118.707 | +3.650 | +1.410 |
| P1000396 | +139.82400 | +94.78800 | +116.679 | +3.650 | +1.410 |
| P1000397 | +139.25800 | +94.42300 | +118.180 | +3.650 | +1.410 |
| P1000398 | +146.93600 | +96.26200 | +46.245 | +1.530 | +1.410 |
| P1000399 | +149.44400 | +96.28100 | +35.792 | +1.530 | +1.410 |
| P1000400 | +153.99800 | +96.73200 | +26.943 | +1.530 | +1.410 |
| P1000401 | +156.18900 | +96.58900 | +27.353 | +1.530 | +1.410 |
| P1000402 | +168.48700 | +96.77500 | +19.185 | +1.530 | +1.410 |
| P1000403 | +186.54000 | +98.83900 | +24.924 | +1.530 | +1.410 |
| P1000404 | +186.55000 | +96.64100 | +24.967 | +1.530 | +1.410 |
| P1000405 | +191.53500 | +98.93200 | +29.132 | +1.530 | +1.410 |

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| P1000406 | +191.44600 | +97.20600 | +29.232 | +1.530 | +1.410 |
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| P1000408 | +196.06400 | +97.67200 | +32.629 | +1.530 | +1.410 |
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| P1000411 | +211.40900 | +99.21100 | +68.531 | +1.530 | +1.410 |
| P1000412 | +211.13500 | +98.88200 | +67.409 | +1.530 | +1.410 |
| P1000413 | +221.74800 | +100.16800 | +63.542 | +1.530 | +1.410 |
| P1000414 | +220.89700 | +99.80300 | +64.467 | +1.530 | +1.410 |
| P1000415 | +221.55600 | +100.69800 | +38.611 | +1.530 | +1.410 |
| P1000416 | +220.49600 | +99.84600 | +38.273 | +1.530 | +1.410 |
| P1000417 | +237.46600 | +102.83600 | +6.896 | +1.530 | +1.410 |
| P1000418 | +232.67300 | +100.06600 | +6.885 | +1.530 | +1.410 |
| P1000419 | +232.27500 | +100.90400 | +6.678 | +1.530 | +1.410 |
| P1000420 | +278.47700 | +105.12900 | +9.768 | +1.530 | +1.410 |
| P1000421 | +272.33700 | +103.66900 | +9.847 | +1.530 | +1.410 |
| P1000422 | +235.30400 | +102.02800 | +29.030 | +1.530 | +1.410 |
| P1000423 | +234.14200 | +101.29900 | +28.407 | +1.530 | +1.410 |
| P1000424 | +228.40200 | +100.79900 | +61.373 | +1.530 | +1.410 |
| P1000425 | +227.88600 | +100.31500 | +62.664 | +1.530 | +1.410 |
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| P1000426 | +237.47400 | +101.53200 | +60.352 | +1.530 | +1.410 |
| P1000427 | +236.33800 | +101.06400 | +59.490 | +1.530 | +1.410 |
| P1000428 | +245.32900 | +102.19700 | +36.810 | +1.530 | +1.410 |
| P1000429 | +244.52500 | +101.44800 | +36.491 | +1.530 | +1.410 |
| P1000430 | +302.28000 | +105.78100 | +13.932 | +1.530 | +1.410 |
| P1000431 | +301.18400 | +104.12200 | +13.305 | +1.530 | +1.410 |
| P1000432 | +301.74600 | +104.91500 | +13.213 | +1.530 | +1.410 |
| P1000433 | +314.91800 | +105.27400 | +21.001 | +1.530 | +1.410 |
| P1000434 | +314.15300 | +104.29900 | +20.229 | +1.530 | +1.410 |
| P1000435 | +263.50100 | +103.18300 | +36.259 | +1.530 | +1.410 |
| P1000436 | +262.96400 | +102.36600 | +35.913 | +1.530 | +1.410 |
| P1000437 | +248.77600 | +101.70400 | +61.973 | +1.530 | +1.410 |
| P1000438 | +248.09100 | +101.50200 | +61.888 | +1.530 | +1.410 |
| P1000439 | +259.65000 | +102.42400 | +63.263 | +1.530 | +1.410 |
| P1000440 | +258.10700 | +101.86900 | +63.809 | +1.530 | +1.410 |
| P1000441 | +274.75400 | +103.53900 | +44.747 | +1.530 | +1.410 |
| P1000442 | +274.00200 | +102.63400 | +44.306 | +1.530 | +1.410 |
| P1000443 | +321.47900 | +104.88600 | +28.674 | +1.530 | +1.410 |
| P1000444 | +321.18300 | +104.37900 | +27.924 | +1.530 | +1.410 |
| P1000445 | +325.54400 | +104.10000 | +31.453 | +1.530 | +1.410 |
| P1000446 | +318.18700 | +103.44100 | +19.405 | +1.530 | +1.410 |
| P1000447 | +292.04700 | +102.80500 | +8.790 | +1.530 | +1.410 |
| P1000448 | +157.93100 | +97.11200 | +17.833 | +1.530 | +1.410 |
| P1000449 | +19.19800 | +101.08700 | +65.997 | +1.530 | +1.410 |
| P1000450 | +394.67600 | +101.26300 | +104.365 | +1.530 | +1.410 |
| P1000451 | +393.75500 | +101.26100 | +102.532 | +1.530 | +1.410 |
| P1000452 | +394.87600 | +101.28000 | +100.879 | +1.530 | +1.410 |
| P1000453 | +395.86000 | +101.29400 | +102.689 | +1.530 | +1.410 |
| P1000454 | +393.58200 | +101.25000 | +83.193 | +1.530 | +1.410 |
| P1000455 | +379.09300 | +101.51900 | +69.037 | +1.530 | +1.410 |
| P1000456 | +362.08200 | +101.59400 | +69.856 | +1.530 | +1.410 |
| P1000457 | +361.01100 | +101.80300 | +63.135 | +1.530 | +1.410 |
| P1000458 | +349.53400 | +101.72700 | +66.446 | +1.530 | +1.410 |
| P1000459 | +330.59700 | +102.58900 | +47.669 | +1.530 | +1.410 |
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| P1000461 | +347.44100 | +101.65300 | +74.445 | +1.530 | +1.410 |
| P1000462 | +349.48000 | +101.56400 | +80.417 | +1.530 | +1.410 |
| P1000463 | +346.90000 | +101.43900 | +102.675 | +1.530 | +1.410 |
| P1000464 | +339.80400 | +101.74800 | +82.185 | +1.530 | +1.410 |
| P1000465 | +328.84800 | +100.14600 | +63.988 | +3.650 | +1.410 |

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| P1000466 | +315.15300 | +100.13200 | +79.983 | +3.650 | +1.410 |
| P1000467 | +314.66900 | +100.23600 | +85.692 | +3.650 | +1.410 |
| P1000468 | +303.51100 | +100.20900 | +76.846 | +3.650 | +1.410 |
| P1000469 | +302.12800 | +100.24900 | +70.044 | +3.650 | +1.410 |
| P1000470 | +295.96800 | +100.24900 | +63.846 | +3.650 | +1.410 |
| P1000471 | +291.76100 | +100.24400 | +69.371 | +3.650 | +1.410 |
| P1000472 | +299.05900 | +100.01800 | +74.188 | +3.650 | +1.410 |
| P1000473 | +299.14700 | +99.15300 | +71.995 | +3.650 | +1.410 |
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| P1000476 | +328.99800 | +100.29800 | +50.863 | +3.650 | +1.410 |
| P1000477 | +331.41300 | +100.29700 | +50.817 | +3.650 | +1.410 |
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| P1000482 | +313.61500 | +101.04200 | +90.692 | +2.560 | +1.410 |
| P1000483 | +314.74100 | +101.03400 | +91.897 | +2.560 | +1.410 |
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| P1000489 | +307.93500 | +100.18300 | +132.521 | +3.650 | +1.410 |
| P1000490 | +305.18200 | +100.29700 | +147.885 | +3.650 | +1.410 |
| P1000491 | +307.75200 | +100.32000 | +151.410 | +3.650 | +1.410 |
| P1000492 | +284.79600 | +100.43800 | +131.057 | +3.650 | +1.410 |
| P1000493 | +288.17100 | +100.36700 | +110.467 | +3.650 | +1.410 |
| P1000494 | +281.76600 | +100.49000 | +97.140 | +3.650 | +1.410 |
| P1000495 | +282.72200 | +100.42900 | +76.186 | +3.650 | +1.410 |
| P1000496 | +279.77700 | +100.54200 | +82.449 | +3.650 | +1.410 |
| P1000497 | +280.62500 | +100.56700 | +83.236 | +3.650 | +1.410 |
| P1000498 | +280.41900 | +100.40400 | +83.656 | +3.650 | +1.410 |
| P1000499 | +277.50000 | +100.35800 | +90.595 | +3.650 | +1.410 |
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| P1000503 | +270.02600 | +100.47400 | +109.416 | +3.650 | +1.410 |
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| P1000505 | +269.07500 | +100.45900 | +128.562 | +3.650 | +1.410 |
| P1000506 | +272.82600 | +100.56400 | +114.315 | +3.650 | +1.410 |
| P1000507 | +277.03900 | +100.50800 | +105.178 | +3.650 | +1.410 |
| P1000508 | +282.24100 | +100.47400 | +111.844 | +3.650 | +1.410 |
| P1000509 | +291.89100 | +100.39600 | +114.572 | +3.650 | +1.410 |
| P1000510 | +289.85900 | +100.46300 | +96.689 | +3.650 | +1.410 |
| P1000511 | +301.17500 | +100.35100 | +99.835 | +3.650 | +1.410 |
| P1000512 | +306.02600 | +100.26300 | +120.041 | +3.650 | +1.410 |
| P1000513 | +304.70000 | +100.25300 | +135.549 | +3.650 | +1.410 |
| P1000514 | +307.71200 | +100.27600 | +142.880 | +3.650 | +1.410 |
| P1R40515 | +08.09200 | +100.57300 | +155.581 | +1.560 | +1.410 |
| P1R40516 | +208.09000 | +299.42600 | +155.538 | +1.560 | +1.410 |
| P1R40517 | +156.17000 | +100.60200 | +155.579 | +1.560 | +1.475 |
| P1R40518 | +356.16800 | +299.39900 | +155.570 | +1.560 | +1.475 |
| P1P20519 | +292.06100 | +95.56800 | +134.254 | +1.560 | +1.475 |
| P1P20520 | +92.05400 | +304.42900 | +134.258 | +1.560 | +1.475 |
| P1P20521 | +292.05900 | +95.56800 | +134.226 | +1.560 | +1.475 |
| P1P20522 | +92.05800 | +304.43000 | +134.258 | +1.560 | +1.475 |
| P1000523 | +265.42900 | +95.91500 | +153.274 | +1.560 | +1.475 |
| P1000524 | +258.68600 | +94.96700 | +136.259 | +3.650 | +1.475 |
| P1000525 | +254.87600 | +95.12600 | +145.566 | +3.650 | +1.475 |
| P1000526 | +253.28600 | +95.11000 | +147.686 | +3.650 | +1.475 |

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| P1000527 | +253.99700 | +95.22700 | +151.269 | +3.650 | +1.475 |
| P1000528 | +249.12400 | +96.03700 | +118.141 | +1.560 | +1.475 |
| P1000529 | +242.87800 | +96.47000 | +106.793 | +1.560 | +1.475 |
| P1000530 | +231.23500 | +97.35800 | +95.380 | +1.560 | +1.475 |
| P1000531 | +220.63300 | +98.21900 | +86.989 | +1.560 | +1.475 |
| P1000532 | +209.61700 | +98.05800 | +83.681 | +2.560 | +1.475 |
| P1000533 | +393.36000 | +100.02900 | +175.601 | +1.560 | +1.475 |
| P1000534 | +394.57800 | +100.09500 | +162.803 | +1.560 | +1.475 |
| P1000535 | +396.11200 | +100.15500 | +163.753 | +1.560 | +1.475 |
| P1000536 | +396.51500 | +100.26900 | +158.939 | +1.560 | +1.475 |
| P1000537 | +399.10900 | +100.44000 | +160.726 | +1.560 | +1.475 |
| P1000538 | +398.56500 | +100.30800 | +165.684 | +1.560 | +1.475 |
| P1000539 | +399.75300 | +100.35200 | +166.705 | +1.560 | +1.475 |
| P1000540 | +0.85900 | +100.72900 | +163.661 | +1.560 | +1.475 |
| P1000541 | +02.27000 | +100.88300 | +164.948 | +1.560 | +1.475 |
| P1000542 | +02.45100 | +101.04100 | +157.654 | +1.560 | +1.475 |
| P1000543 | +397.28600 | +100.37100 | +153.237 | +1.560 | +1.475 |
| P1000544 | +399.15100 | +100.55800 | +148.211 | +1.560 | +1.475 |
| P1000545 | +399.90400 | +100.67400 | +140.665 | +1.560 | +1.475 |
| P1000546 | +398.55200 | +100.63400 | +140.224 | +1.560 | +1.475 |
| P1000547 | +397.64300 | +100.48900 | +146.949 | +1.560 | +1.475 |
| P1000548 | +396.13100 | +100.33000 | +151.768 | +1.560 | +1.475 |
| P1000549 | +394.38400 | +100.24100 | +145.823 | +1.560 | +1.475 |
| P1000550 | +391.80300 | +99.81000 | +156.606 | +1.560 | +1.475 |
| P1000551 | +391.32100 | +99.60500 | +161.178 | +2.560 | +1.475 |
| P1000552 | +391.45000 | +99.18700 | +158.524 | +2.560 | +1.475 |
| P1000553 | +390.86800 | +98.76900 | +165.673 | +2.560 | +1.475 |
| P1000554 | +386.89000 | +98.66600 | +164.508 | +3.650 | +1.475 |
| P1000555 | +387.64000 | +98.70500 | +151.947 | +3.650 | +1.475 |
| P1000556 | +388.62400 | +98.76500 | +142.779 | +3.650 | +1.475 |
| P1000557 | +391.21100 | +100.13600 | +132.110 | +1.560 | +1.475 |
| P1000558 | +391.00900 | +99.96600 | +131.677 | +1.560 | +1.475 |
| P1000559 | +391.10300 | +100.12900 | +112.053 | +1.560 | +1.475 |
| P1000560 | +392.41100 | +100.03800 | +111.985 | +1.560 | +1.475 |
| P1000561 | +394.58700 | +100.13500 | +117.509 | +1.560 | +1.475 |
| P1000562 | +394.13800 | +100.11500 | +131.947 | +1.560 | +1.475 |
| P1000563 | +399.20700 | +100.92500 | +116.481 | +1.560 | +1.475 |
| P1000564 | +01.01600 | +100.98900 | +116.694 | +1.560 | +1.475 |
| P1000565 | +06.62200 | +102.13800 | +74.388 | +1.560 | +1.475 |
| P1000566 | +02.61300 | +102.05200 | +73.374 | +1.560 | +1.475 |

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| R4R10600 | +95.50500 | +100.29500 | +358.761 | +1.530 | +1.525 |
| R4R10601 | +295.50200 | +299.70600 | +358.765 | +1.530 | +1.525 |
| R4000602 | +95.46800 | +100.28900 | +372.750 | +1.530 | +1.525 |
| R4000603 | +94.55200 | +100.29300 | +357.120 | +1.530 | +1.525 |
| R4000604 | +96.11100 | +100.27300 | +353.089 | +1.530 | +1.525 |
| R4000605 | +96.38800 | +100.27400 | +344.221 | +1.530 | +1.525 |
| R4000606 | +95.07300 | +100.28800 | +337.526 | +1.530 | +1.525 |
| R4000607 | +96.85100 | +100.27900 | +328.563 | +1.530 | +1.525 |
| R4000608 | +96.58900 | +100.31400 | +321.742 | +1.530 | +1.525 |
| R4000609 | +95.49600 | +100.29500 | +318.429 | +1.530 | +1.525 |
| R4000610 | +96.12800 | +100.35400 | +292.057 | +1.530 | +1.525 |
| R4000611 | +97.32000 | +100.43500 | +281.083 | +1.530 | +1.525 |
| R4000612 | +96.49000 | +100.38400 | +275.884 | +1.530 | +1.525 |
| R4000613 | +98.36900 | +100.32500 | +276.833 | +1.530 | +1.525 |
| R4000614 | +100.86900 | +100.38300 | +279.137 | +1.530 | +1.525 |
| R4000615 | +98.20400 | +100.58900 | +240.773 | +1.530 | +1.525 |
| R4000616 | +97.25500 | +100.40400 | +238.503 | +1.530 | +1.525 |
| R4000617 | +101.26000 | +100.47400 | +209.394 | +1.530 | +1.525 |
| R4000618 | +102.31100 | +100.45700 | +186.601 | +1.530 | +1.525 |
| R4000619 | +103.71200 | +100.48600 | +164.699 | +1.530 | +1.525 |
| R4000620 | +98.49700 | +100.48600 | +195.076 | +1.530 | +1.525 |
| R4000621 | +98.38200 | +100.46700 | +204.511 | +1.530 | +1.525 |
| R4000622 | +99.24300 | +100.54400 | +173.076 | +1.530 | +1.525 |
| R4000623 | +100.86000 | +100.65700 | +140.068 | +1.530 | +1.525 |
| R4000624 | +102.44700 | +100.73800 | +118.027 | +1.530 | +1.525 |
| R4000625 | +107.23100 | +100.65800 | +128.212 | +1.530 | +1.525 |
| R4000626 | +107.78900 | +100.66100 | +127.870 | +1.530 | +1.525 |
| R4000627 | +109.42000 | +100.00300 | +128.808 | +2.560 | +1.525 |
| R4000628 | +117.28000 | +100.00100 | +110.726 | +2.560 | +1.525 |
| R4000629 | +118.70200 | +99.96800 | +113.004 | +2.560 | +1.525 |
| R4000630 | +118.77900 | +99.99500 | +99.602 | +2.560 | +1.525 |
| R4000631 | +129.52900 | +100.84300 | +76.604 | +1.530 | +1.525 |
| R4000632 | +130.21600 | +100.82400 | +77.583 | +1.530 | +1.525 |
| R4000633 | +136.39100 | +101.08500 | +68.770 | +1.530 | +1.525 |
| R4000634 | +179.65400 | +101.43200 | +41.127 | +1.530 | +1.525 |
| R4000635 | +196.05000 | +101.52100 | +39.481 | +1.530 | +1.525 |
| R4000636 | +223.42100 | +103.10700 | +25.690 | +1.530 | +1.525 |
| R4000637 | +165.74700 | +102.53600 | +32.500 | +1.530 | +1.525 |
| R4000638 | +135.72400 | +101.20500 | +58.135 | +1.530 | +1.525 |
| R4000639 | +128.75900 | +101.31200 | +55.056 | +1.530 | +1.525 |
| R4000640 | +123.44500 | +101.28600 | +57.727 | +1.530 | +1.525 |
| R4000641 | +119.16400 | +101.28600 | +58.499 | +1.530 | +1.525 |
| R4000642 | +114.76000 | +101.29700 | +57.907 | +1.530 | +1.525 |
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| R4000644 | +186.66500 | +103.54700 | +20.334 | +1.530 | +1.525 |
| R4000645 | +187.85300 | +103.49200 | +20.629 | +1.530 | +1.525 |
| R4000646 | +187.08500 | +103.45500 | +21.078 | +1.530 | +1.525 |
| R4000647 | +149.09800 | +102.23000 | +32.706 | +1.530 | +1.525 |
| R4000648 | +133.50000 | +101.45300 | +49.416 | +1.530 | +1.525 |
| R4000649 | +121.52500 | +101.16600 | +54.569 | +1.530 | +1.525 |
| R4000650 | +107.21600 | +101.14600 | +83.586 | +1.530 | +1.525 |
| R4000651 | +109.17200 | +101.09500 | +86.033 | +1.530 | +1.525 |
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| R4000653 | +281.97300 | +108.99000 | +7.442 | +1.530 | +1.525 |
| R4000654 | +128.53700 | +104.75200 | +16.608 | +1.530 | +1.525 |
| R4000655 | +104.50400 | +102.05700 | +41.167 | +1.530 | +1.525 |
| R4000656 | +97.08500 | +101.96400 | +40.514 | +1.530 | +1.525 |
| R4000657 | +93.83700 | +102.18000 | +30.569 | +1.530 | +1.525 |
| R4000658 | +90.06900 | +101.77100 | +36.691 | +1.530 | +1.525 |

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| R4000659 | +84.77600 | +99.88800 | +39.739 | +1.530 | +1.525 |
| R4000660 | +82.55700 | +101.60300 | +43.476 | +1.530 | +1.525 |
| R4000661 | +83.24500 | +101.64800 | +44.538 | +1.530 | +1.525 |
| R4000662 | +89.56700 | +101.70200 | +44.837 | +1.530 | +1.525 |
| R4000663 | +96.39700 | +101.88100 | +44.159 | +1.530 | +1.525 |
| R4000664 | +67.38800 | +100.90000 | +54.410 | +1.530 | +1.525 |
| R4000665 | +73.75100 | +101.20700 | +51.558 | +1.530 | +1.525 |
| R4000666 | +88.17100 | +101.30800 | +57.161 | +1.530 | +1.525 |
| R4000667 | +89.44000 | +101.44800 | +54.466 | +1.530 | +1.525 |
| R4000668 | +98.46800 | +101.42100 | +58.893 | +1.530 | +1.525 |
| R4000669 | +91.32300 | +101.23900 | +61.555 | +1.530 | +1.525 |
| R4000670 | +91.34800 | +100.94300 | +72.421 | +1.530 | +1.525 |
| R4000671 | +91.34900 | +100.86800 | +79.192 | +1.530 | +1.525 |
| R4000672 | +91.40500 | +100.76300 | +91.361 | +1.530 | +1.525 |
| R4000673 | +91.41900 | +100.68600 | +99.453 | +1.530 | +1.525 |
| R4000674 | +91.42900 | +100.66500 | +110.188 | +1.530 | +1.525 |
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| R4000676 | +84.40800 | +99.96600 | +107.021 | +1.530 | +1.525 |
| R4000677 | +84.43400 | +100.15500 | +107.025 | +1.530 | +1.525 |
| R4000678 | +84.86700 | +100.32400 | +106.963 | +1.530 | +1.525 |
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| R4000681 | +83.20200 | +100.40600 | +80.946 | +1.530 | +1.525 |
| R4000682 | +84.15300 | +100.36500 | +90.799 | +1.530 | +1.525 |
| R4000683 | +78.81700 | +99.88300 | +66.322 | +1.530 | +1.525 |
| R4000684 | +80.64900 | +100.50100 | +65.823 | +1.530 | +1.525 |
| R4000685 | +78.40400 | +100.47000 | +64.473 | +1.530 | +1.525 |
| R4000686 | +65.45700 | +99.87100 | +70.841 | +1.530 | +1.525 |
| R4000687 | +66.34100 | +100.26700 | +68.268 | +1.530 | +1.525 |
| R4000688 | +63.51800 | +99.86500 | +66.352 | +1.530 | +1.525 |
| R4000689 | +65.06700 | +100.33800 | +65.037 | +1.530 | +1.525 |
| R4000690 | +63.01000 | +100.34500 | +64.430 | +1.530 | +1.525 |
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| R4000692 | +45.49600 | +99.86900 | +74.434 | +1.530 | +1.525 |
| R4000693 | +54.11400 | +100.73100 | +56.440 | +1.530 | +1.525 |
| R4000694 | +79.17100 | +100.84200 | +55.904 | +1.530 | +1.525 |
| R4000695 | +90.35600 | +100.83200 | +68.747 | +1.530 | +1.525 |
| R4000696 | +90.61200 | +100.71700 | +85.096 | +1.530 | +1.525 |
| R4000697 | +90.79500 | +100.52400 | +101.507 | +1.530 | +1.525 |
| R4000698 | +88.00100 | +100.99500 | +57.639 | +1.530 | +1.525 |
| R4000699 | +86.45900 | +100.96700 | +59.554 | +1.530 | +1.525 |
| R4000700 | +88.50900 | +100.92700 | +62.334 | +1.530 | +1.525 |
| R4000701 | +90.83600 | +100.95500 | +61.798 | +1.530 | +1.525 |
| R4000702 | +89.32300 | +100.47800 | +109.351 | +1.530 | +1.525 |
| R4000703 | +89.69400 | +100.50100 | +107.882 | +1.530 | +1.525 |
| R4000704 | +90.28800 | +100.51900 | +107.164 | +1.530 | +1.525 |
| R4000705 | +91.14600 | +100.51900 | +106.816 | +1.530 | +1.525 |
| R4000706 | +83.71800 | +100.14800 | +111.084 | +1.530 | +1.525 |
| R4000707 | +83.73600 | +100.39000 | +110.880 | +1.530 | +1.525 |
| R4000708 | +94.40500 | +100.99800 | +86.538 | +1.530 | +1.525 |
| R4000709 | +98.20200 | +100.99800 | +87.493 | +1.530 | +1.525 |
| R4000710 | +91.41600 | +100.66800 | +113.896 | +1.530 | +1.525 |
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| R4000716 | +95.65900 | +100.64300 | +154.278 | +1.530 | +1.525 |
| R4000717 | +85.87200 | +100.07500 | +150.097 | +2.560 | +1.525 |
| R4000718 | +85.88500 | +100.08100 | +150.098 | +2.560 | +1.525 |
| R4000719 | +85.74400 | +99.97600 | +145.180 | +2.560 | +1.525 |

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| R4000722 | +91.59200 | +100.49000 | +182.894 | +2.560 | +1.525 |
| R4000723 | +91.64700 | +100.46800 | +211.480 | +1.530 | +1.525 |
| R4000724 | +86.03300 | +100.46700 | +154.690 | +1.530 | +1.525 |
| R4000725 | +90.15600 | +100.10800 | +149.799 | +2.560 | +1.525 |
| R4000726 | +90.29600 | +100.30800 | +165.211 | +2.000 | +1.525 |
| R4000727 | +90.49100 | +100.32000 | +176.230 | +2.000 | +1.525 |
| R4000728 | +87.89200 | +100.45200 | +211.536 | +1.560 | +1.525 |
| R4000729 | +93.04700 | +100.54900 | +186.809 | +1.560 | +1.525 |
| R4000730 | +95.03500 | +100.53100 | +192.054 | +1.560 | +1.525 |
| R1R40731 | +195.41300 | +99.71100 | +358.778 | +1.530 | +1.560 |
| R1R40732 | +395.41100 | +300.28400 | +358.756 | +1.530 | +1.560 |
| R1000733 | +199.47000 | +99.92500 | +183.193 | +1.530 | +1.560 |
| R1000734 | +205.03600 | +98.57100 | +167.314 | +4.650 | +1.560 |
| R1000735 | +202.17600 | +99.99400 | +130.909 | +1.530 | +1.560 |
| R1000736 | +200.57700 | +100.00200 | +122.379 | +1.530 | +1.560 |
| R1000737 | +197.94400 | +100.05800 | +121.240 | +1.530 | +1.560 |
| R1000738 | +203.54400 | +99.95900 | +116.106 | +1.530 | +1.560 |
| R1000739 | +204.92100 | +99.99800 | +103.978 | +1.530 | +1.560 |
| R1000740 | +206.06900 | +99.98900 | +96.203 | +1.530 | +1.560 |
| R1000741 | +209.97200 | +100.07800 | +76.239 | +1.530 | +1.560 |
| R1000742 | +210.96500 | +98.15900 | +71.881 | +3.650 | +1.560 |
| R1000743 | +221.97600 | +100.15600 | +46.787 | +1.530 | +1.560 |
| R1000744 | +228.17500 | +100.27400 | +39.483 | +1.530 | +1.560 |
| R1000745 | +243.51900 | +100.03600 | +48.864 | +1.530 | +1.560 |
| R1000746 | +256.44200 | +99.86400 | +65.188 | +1.530 | +1.560 |
| R1000747 | +264.72100 | +99.74500 | +85.333 | +1.530 | +1.560 |
| R1000748 | +268.71100 | +99.75000 | +101.305 | +1.530 | +1.560 |
| R1000749 | +268.87200 | +99.74100 | +101.198 | +1.530 | +1.560 |
| R1000750 | +270.71600 | +99.77700 | +111.859 | +1.530 | +1.560 |
| R1000751 | +270.87500 | +99.90000 | +71.116 | +1.530 | +1.560 |
| R1000752 | +263.81700 | +100.12500 | +52.058 | +1.530 | +1.560 |
| R1000753 | +247.64100 | +100.50600 | +33.429 | +1.530 | +1.560 |
| R1000754 | +230.56200 | +100.24900 | +40.036 | +1.530 | +1.560 |
| R1000755 | +243.34800 | +100.70500 | +30.633 | +1.530 | +1.560 |
| R1000756 | +254.87500 | +100.72000 | +27.340 | +1.530 | +1.560 |
| R1000757 | +252.29400 | +100.25900 | +32.370 | +1.530 | +1.560 |
| R1000758 | +254.56100 | +100.05700 | +36.696 | +1.530 | +1.560 |
| R1000759 | +264.70800 | +99.76300 | +50.580 | +1.530 | +1.560 |
| R1000760 | +266.74300 | +99.81000 | +40.430 | +1.530 | +1.560 |
| R1000761 | +268.54600 | +99.71200 | +40.679 | +1.530 | +1.560 |
| R1000762 | +275.97300 | +99.94000 | +32.804 | +1.530 | +1.560 |
| R1000763 | +305.72600 | +99.87900 | +33.268 | +1.530 | +1.560 |
| R1000764 | +312.63400 | +99.68100 | +41.272 | +1.530 | +1.560 |
| R1000765 | +314.73700 | +99.82100 | +41.074 | +1.530 | +1.560 |
| R1000766 | +310.24700 | +99.61700 | +51.152 | +1.530 | +1.560 |
| R1000767 | +309.93900 | +99.32500 | +61.520 | +1.530 | +1.560 |
| R1000768 | +318.81600 | +99.85700 | +43.800 | +1.530 | +1.560 |
| R1000769 | +330.95000 | +100.61600 | +32.221 | +1.530 | +1.560 |
| R1000770 | +324.84800 | +100.62800 | +29.912 | +1.530 | +1.560 |
| R1000771 | +306.51500 | +100.62900 | +25.725 | +1.530 | +1.560 |
| R1000772 | +304.03100 | +100.46700 | +26.759 | +1.530 | +1.560 |
| R1000773 | +277.52300 | +100.66000 | +25.756 | +1.530 | +1.560 |
| R1000774 | +275.50600 | +100.82300 | +24.621 | +1.530 | +1.560 |
| R1000775 | +272.92100 | +101.84400 | +19.459 | +1.530 | +1.560 |
| R1000776 | +271.49600 | +101.49400 | +21.459 | +1.530 | +1.560 |
| R1000777 | +214.78700 | +100.48800 | +39.359 | +1.530 | +1.560 |
| R1000778 | +224.48200 | +100.56400 | +30.104 | +1.530 | +1.560 |
| R1000779 | +271.16000 | +101.63300 | +18.026 | +1.530 | +1.560 |
| R1000780 | +345.60000 | +100.66100 | +30.916 | +1.530 | +1.560 |

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| R1000783 | +372.22200 | +100.36500 | +118.717 | +1.530 | +1.560 |
| R1000784 | +366.83200 | +100.31400 | +75.059 | +1.530 | +1.560 |
| R1000785 | +365.19600 | +100.38100 | +66.854 | +1.530 | +1.560 |
| R1000786 | +366.21400 | +101.26900 | +71.762 | +2.560 | +1.560 |
| R1000787 | +359.49200 | +100.50300 | +68.650 | +1.530 | +1.560 |
| R1000788 | +354.25000 | +100.39600 | +56.046 | +1.530 | +1.560 |
| R1000789 | +352.24900 | +100.39600 | +52.417 | +1.530 | +1.560 |
| R1000790 | +336.07400 | +100.97800 | +62.306 | +1.530 | +1.560 |
| R1000791 | +336.68600 | +100.71100 | +95.691 | +1.530 | +1.560 |
| R1000792 | +319.03300 | +99.71500 | +115.895 | +1.530 | +1.560 |
| R1000793 | +310.59000 | +99.71700 | +109.526 | +1.530 | +1.560 |
| R1000794 | +331.09600 | +99.57200 | +142.735 | +3.650 | +1.560 |
| R1000795 | +341.22100 | +99.60200 | +146.490 | +3.650 | +1.560 |
| R1000796 | +330.96900 | +99.48100 | +162.063 | +2.560 | +1.560 |
| R1000797 | +338.56100 | +99.65100 | +179.818 | +2.560 | +1.560 |
| R1000798 | +341.88800 | +99.66000 | +190.248 | +2.560 | +1.560 |
| R1000799 | +339.43600 | +99.74900 | +223.875 | +2.560 | +1.560 |
| R1000800 | +340.29300 | +99.79800 | +225.715 | +2.560 | +1.560 |
| R1000801 | +343.47600 | +99.92200 | +191.015 | +2.560 | +1.560 |
| R1000802 | +343.86100 | +99.92500 | +192.394 | +3.650 | +1.560 |
| R1000803 | +342.30600 | +99.68500 | +178.262 | +3.650 | +1.560 |
| R1000804 | +350.57800 | +99.47300 | +140.125 | +3.650 | +1.560 |
| R1000805 | +348.03400 | +99.47200 | +123.216 | +3.650 | +1.560 |
| R1000806 | +352.52300 | +99.37700 | +119.873 | +3.650 | +1.560 |
| R1000807 | +348.04000 | +99.34100 | +103.045 | +3.650 | +1.560 |
| R1000808 | +354.97200 | +99.11600 | +95.395 | +3.650 | +1.560 |
| R1000809 | +315.74000 | +100.36400 | +73.774 | +1.530 | +1.560 |
| R1000810 | +311.74200 | +100.03400 | +92.893 | +1.530 | +1.560 |
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| R1R40812 | +09.06200 | +300.28500 | +358.755 | +1.530 | +1.583 |
| R1S10813 | +204.41200 | +100.29200 | +84.795 | +1.530 | +1.583 |
| R1S10814 | +04.40800 | +299.70800 | +84.805 | +1.530 | +1.583 |
| R1S10815 | +204.41400 | +100.29400 | +84.807 | +1.530 | +1.583 |
| R1S10816 | +04.40700 | +299.70700 | +84.799 | +1.530 | +1.583 |
| R1000817 | +285.88000 | +100.62200 | +27.511 | +1.530 | +1.583 |
| R1000818 | +289.60000 | +100.55300 | +28.085 | +1.530 | +1.583 |
| R1000819 | +284.47400 | +99.53200 | +50.378 | +1.530 | +1.583 |
| R1000820 | +286.79700 | +99.46600 | +43.461 | +1.530 | +1.583 |
| R1000821 | +289.47400 | +98.87800 | +44.096 | +1.530 | +1.583 |
| R1000822 | +295.92100 | +97.63300 | +38.415 | +2.560 | +1.583 |
| R1000823 | +312.66000 | +97.57700 | +38.639 | +2.560 | +1.583 |
| R1000824 | +319.05300 | +98.81000 | +44.544 | +1.530 | +1.583 |
| R1000824 | +319.05300 | +98.81000 | +44.544 | +1.530 | +1.583 |
| R1000825 | +321.87800 | +99.34500 | +43.906 | +1.530 | +1.583 |
| R1000826 | +323.46600 | +99.53300 | +50.954 | +1.530 | +1.583 |
| R1000827 | +385.01800 | +99.94500 | +32.576 | +1.530 | +1.583 |
| R1000828 | +387.60700 | +100.02000 | +44.295 | +1.530 | +1.583 |
| R1000829 | +390.20300 | +100.16200 | +73.007 | +1.530 | +1.583 |
| R1000830 | +391.12100 | +100.35800 | +96.975 | +1.530 | +1.583 |
| R1000831 | +390.14900 | +100.31100 | +61.804 | +1.530 | +1.583 |
| R1000832 | +389.88200 | +100.26800 | +57.701 | +3.650 | +1.583 |
| R1000833 | +389.64200 | +100.50600 | +53.518 | +1.530 | +1.583 |
| R1000834 | +40.35700 | +100.36000 | +21.692 | +1.530 | +1.583 |
| R1000835 | +18.51300 | +100.49000 | +2799.839 | +1.530 | +1.583 |
| R1000836 | +08.02900 | +100.35600 | +13.979 | +1.530 | +1.583 |
| S1R10837 | +165.34300 | +99.66100 | +84.815 | +1.530 | +1.415 |
| S1R10838 | +365.34200 | +300.33900 | +84.827 | +1.530 | +1.415 |
| S1R10839 | +165.35100 | +99.65900 | +84.799 | +1.530 | +1.415 |
| S1R10840 | +365.33900 | +300.34000 | +84.808 | +1.530 | +1.415 |

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| S1000842 | +59.03000 | +98.65800 | +37.782 | +1.530 | +1.415 |
| S1000843 | +61.35400 | +99.09500 | +66.595 | +1.530 | +1.415 |
| S1000844 | +65.61100 | +99.11900 | +66.381 | +1.530 | +1.415 |
| S1000845 | +59.53200 | +99.31500 | +93.244 | +1.530 | +1.415 |
| S1000846 | +59.82200 | +99.45700 | +98.300 | +1.530 | +1.415 |
| S1000847 | +60.44700 | +99.46400 | +97.772 | +1.530 | +1.415 |
| S1000848 | +58.20900 | +99.18700 | +68.781 | +1.530 | +1.415 |
| S1000849 | +57.17600 | +99.19100 | +68.003 | +1.530 | +1.415 |
| S1000850 | +45.48200 | +98.24800 | +70.862 | +2.560 | +1.415 |
| S1000851 | +44.89900 | +98.23100 | +72.263 | +2.560 | +1.415 |
| S1000852 | +45.94000 | +98.25800 | +75.928 | +2.560 | +1.415 |
| S1000853 | +57.84400 | +98.17200 | +72.884 | +2.560 | +1.415 |
| S1000854 | +68.73600 | +99.60000 | +146.668 | +1.750 | +1.415 |
| S1000855 | +69.96300 | +99.56000 | +117.035 | +1.530 | +1.415 |
| S1000856 | +70.97900 | +99.51100 | +109.030 | +1.570 | +1.415 |
| S1000857 | +72.01000 | +99.45400 | +87.769 | +1.570 | +1.415 |
| S1000858 | +75.22000 | +99.12000 | +63.263 | +1.750 | +1.415 |
| S1000859 | +81.85000 | +98.72800 | +40.226 | +1.750 | +1.415 |
| S1000860 | +83.37700 | +98.91700 | +40.553 | +1.530 | +1.415 |
| S1000861 | +91.99400 | +98.71300 | +26.248 | +1.530 | +1.415 |
| S1000862 | +85.29800 | +98.71300 | +25.283 | +1.530 | +1.415 |
| S1000863 | +42.33200 | +96.20700 | +25.900 | +2.560 | +1.415 |
| S1000864 | +28.37100 | +98.85700 | +29.127 | +1.530 | +1.415 |
| S1000865 | +398.30000 | +98.02300 | +49.923 | +2.560 | +1.415 |
| S1000866 | +391.49100 | +97.36000 | +62.404 | +3.650 | +1.415 |
| S1000867 | +390.81200 | +97.32500 | +61.526 | +3.650 | +1.415 |
| S1000868 | +390.18300 | +99.53200 | +65.385 | +1.530 | +1.415 |
| S1000869 | +399.97000 | +99.58600 | +70.624 | +1.530 | +1.415 |
| S1000870 | +399.84400 | +99.51300 | +71.708 | +1.530 | +1.415 |
| S1000871 | +13.37300 | +99.59500 | +82.893 | +1.530 | +1.415 |
| S1000872 | +13.25400 | +99.47200 | +83.980 | +1.530 | +1.415 |
| S1000873 | +13.25400 | +99.47200 | +0.000 | +1.530 | +1.415 |
| S1000874 | +24.16200 | +98.21500 | +100.006 | +3.650 | +1.415 |
| S1000875 | +23.57900 | +98.18800 | +100.505 | +3.650 | +1.415 |
| S1000876 | +23.98900 | +97.99100 | +90.939 | +3.650 | +1.415 |
| S1000877 | +13.61200 | +97.53000 | +72.114 | +3.650 | +1.415 |
| S1000878 | +27.88400 | +98.98700 | +50.754 | +1.530 | +1.415 |
| S1000879 | +45.85900 | +98.93900 | +48.143 | +1.530 | +1.415 |
| S1000880 | +383.94500 | +98.78500 | +95.138 | +2.560 | +1.415 |
| S1000881 | +389.62500 | +99.42100 | +72.191 | +1.530 | +1.415 |
| S1000882 | +393.59800 | +99.32900 | +86.695 | +1.530 | +1.415 |
| S1000883 | +01.84600 | +99.37300 | +93.082 | +1.530 | +1.415 |
| S1000884 | +12.73900 | +99.40600 | +105.956 | +1.530 | +1.415 |
| S1000885 | +27.57500 | +97.67500 | +87.483 | | |

10.- RESEÑAS.

Se adjuntan listados de reseñas de las bases de replanteo.

RESEÑAS DE BASES DE REPLANTEO

VÉRTICE: R-1

SITUACIÓN:

En la carretera nacional N-340, enfrente del concesionario de Seat y el edificio de la Inspección Técnica de Vehículos (ITV).

La base se encuentra situada en el arcén de la carretera



COORDENADAS:

$X_{UTM} = 681.278,194$

$Y_{UTM} = 4.222.676,382$

$Z = 38.34$

SEÑAL: Clavo tipo Geopunto, remarcada con pintura.



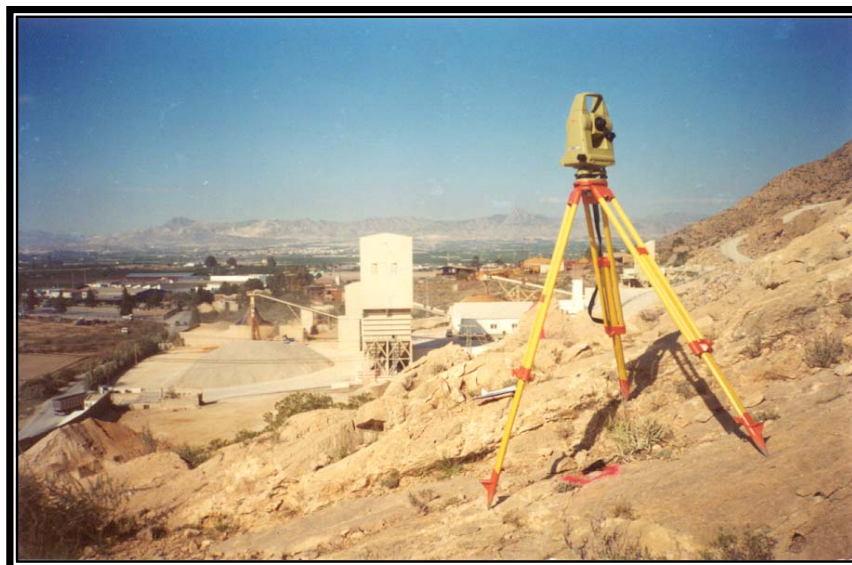
RESEÑAS DE BASES DE REPLANTEO

VÉRTICE: R-2

SITUACIÓN:

En la ladera de la montaña situada entre la cantera de áridos y una casa con un establo de caballos.

La base se encuentra situada después de una torre eléctrica.



COORDENADAS:

$X_{UTM} = 681.788,359$

$Y_{UTM} = 4.222.414,516$

$Z = 65.13$

SEÑAL: Clavo tipo Geopunto, remarcada con pintura.



RESEÑAS DE BASES DE REPLANTEO

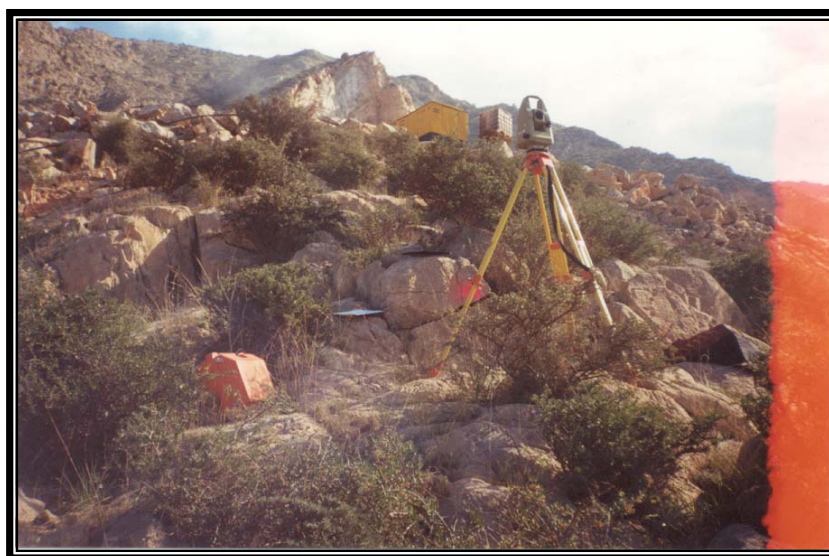
VÉRTICE: R-3

SITUACIÓN:

En la ladera de la montaña situada dentro de la cantera de áridos.

Enfrente se encuentra la empresa de productos químicos.

A la base se accede por la cantera.



COORDENADAS:

$X_{UTM} = 681.737,451$

$Y_{UTM} = 4.222.816,755$

$Z = 73.77$

SEÑAL: Clavo tipo Geopunto, remarcada con pintura.



RESEÑAS DE BASES DE REPLANTEO

VÉRTICE: R-4

SITUACIÓN:

En la carretera nacional N-340, Alicante- Murcia encima de un murete de piedra, ante de la intersección en forma de isleta que conduce al polígono.



COORDENADAS:

$X_{UTM} = 681.341,608$

$Y_{UTM} = 4.223.029,486$

$Z = 40.00$

SEÑAL: Clavo tipo Geopunto, remarcada con pintura.

