

# **Anteproyecto de la Línea de Alta Velocidad Lugo-Ourense. Tramo Sarria-Oural**

Preliminary project of the High Speed Line Lugo-Ourense. Stretch of railway Sarria-Oural

## **DOCUMENTO 03: PRESUPUESTOS**



**Luis Mosquera Feijoo**

Grado en Tecnología de la Ingeniería Civil  
Proyecto Fin de Grado  
Octubre 2019



## INDICE DEL PROYECTO

### DOCUMENTO 01: MEMORIA

MEMORIA DESCRIPTIVA

MEMORIA JUSTIFICATIVA

ANEJO 01: ANTECEDENTES Y SITUACION ACTUAL

ANEJO 02: CARTOGRAFIA

ANEJO 03: ESTUDIO DE LAS ALTERNATIVAS

ANEJO 04: GEOLOGIA Y GEOTECNIA

ANEJO 05: SISMICIDAD

ANEJO 06: HIDROLOGÍA, CLIMATOLOGIA Y DRENAJE

ANEJO 07: IMPACTO AMBIENTAL

ANEJO 08: TRAZADO

ANEJO 09: PLATAFORMA Y SUPERESTRUCTURA

ANEJO 10: EXPROPIACIONES

### DOCUMENTO 02: PLANOS

1- SITUACION

2- PLANA DE CONJUNTO

3- PLANTA GENERAL

4- PLANTA DE DETALLE

5- PERFIL LONGITUDINAL

6- PERFILES TRANSVERSALES

7- SECCION TIPO

### DOCUMENTO 03: PRESUPUESTO

**1- MEDICIONES AUXILIARES**

**2- MEDICIONES**

**3- PRESUPUESTO**

**4- RESUMEN DEL PRESUPUESTO**



## ÍNDICE DE PRESUPUESTOS

<b>1. MEDICIONES AUXILIARES.....</b>	<b>2</b>
<b>1.1 MOVIMIENTOS DE TIERRA.....</b>	<b>3</b>
<b>1.1.1 RESUMEN DE VOLUMENES TOTALES .....</b>	<b>24</b>
<b>1.2 SUPERFICIE DE DESBROCE .....</b>	<b>25</b>
<b>1.1.2 RESUMEN DE LOS DESBROCES .....</b>	<b>30</b>
<b>1.3 ÁREAS DE SIEMBRA.....</b>	<b>31</b>
<b>1.1.3 RESUMEN DESBROCE.....</b>	<b>39</b>
<b>1.4 RESÚMENES Y OTROS .....</b>	<b>40</b>
<b>2. MEDICIONES .....</b>	<b>41</b>
<b>3. PRESUPUESTO .....</b>	<b>49</b>
<b>4. RESUMEN DEL PRESUPUESTO.....</b>	<b>57</b>



## 1. MEDICIONES AUXILIARES

## 1.1 MOVIMIENTOS DE TIERRA

**MEDICIONES DE LOS PERFILES TRANSVERSALES**

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
40.000	CAPA DE FORMA	7.232	0.00	0.0	FIRME	14.947	0.00	0.0
	SUBBALASTO	3.850	0.00	0.0	REVES CUNETAS	0.155	0.00	0.0
	D TIERRA	26.481	0.00	0.0	SUELO SEL 1	5.156	0.00	0.0
	BALASTO	3.866	0.00	0.0				
60.000	CAPA DE FORMA	7.232	144.64	144.6	FIRME	14.948	298.95	298.9
	SUBBALASTO	3.850	76.99	77.0	REVES CUNETAS	0.155	3.10	3.1
	D TIERRA	23.389	498.69	498.7	SUELO SEL 1	5.155	103.11	103.1
	BALASTO	3.866	77.31	77.3				
80.000	CAPA DE FORMA	7.232	144.64	289.3	FIRME	14.947	298.95	597.9
	SUBBALASTO	3.850	76.99	154.0	REVES CUNETAS	0.155	3.10	6.2
	D TIERRA	20.436	438.25	936.9	SUELO SEL 1	5.156	103.11	206.2
	BALASTO	3.866	77.31	154.6				
100.000	CAPA DE FORMA	8.179	154.11	443.4	FIRME	15.991	309.38	907.3
	SUBBALASTO	3.947	77.96	232.0	REVES CUNETAS	0.000	1.55	7.7
	D TIERRA	10.533	309.69	1246.6	SUELO SEL 1	5.733	108.89	315.1
	BALASTO	3.865	77.31	231.9				
180.000	CAPA DE FORMA	7.638	632.69	1076.1	FIRME	15.434	1257.01	2164.3
	SUBBALASTO	3.930	315.08	547.0	D TIERRA	13.655	967.54	2214.2
	SUELO SEL 1	5.379	444.48	759.6	BALASTO	3.866	309.24	541.2
220.000	CAPA DE FORMA	7.231	297.39	1373.5	FIRME	14.948	607.65	2771.9
	SUBBALASTO	3.851	155.63	702.7	REVES CUNETAS	0.155	3.09	10.8
	D TIERRA	26.519	803.48	3017.7	SUELO SEL 1	5.155	210.69	970.3
	BALASTO	3.866	154.62	695.8				
240.000	CAPA DE FORMA	7.231	144.63	1518.1	FIRME	14.948	298.96	3070.9
	SUBBALASTO	3.850	77.01	779.7	REVES CUNETAS	0.155	3.09	13.9
	D TIERRA	26.494	530.13	3547.8	SUELO SEL 1	5.156	103.11	1073.4
	BALASTO	3.866	77.32	773.1				
260.000	CAPA DE FORMA	7.232	144.63	1662.7	FIRME	14.948	298.95	3369.8
	SUBBALASTO	3.850	77.00	856.7	REVES CUNETAS	0.155	3.09	17.0
	D TIERRA	25.850	523.44	4071.2	SUELO SEL 1	5.155	103.10	1176.5
	BALASTO	3.866	77.32	850.4				

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
280.000	CAPA DE FORMA	7.231	144.63	1807.4	FIRME	14.948	298.95	3668.8
	SUBBALASTO	3.850	77.00	933.7	REVES CUNETAS	0.155	3.09	20.1
	D TIERRA	23.824	496.74	4568.0	SUELO SEL 1	5.156	103.10	1279.6
	BALASTO	3.866	77.32	927.8				
300.000	CAPA DE FORMA	7.232	144.63	1952.0	FIRME	14.947	298.95	3967.7
	SUBBALASTO	3.850	77.00	1010.7	REVES CUNETAS	0.155	3.09	23.2
	D TIERRA	21.554	453.78	5021.7	SUELO SEL 1	5.156	103.12	1382.7
	BALASTO	3.866	77.32	1005.1				
320.000	CAPA DE FORMA	7.231	144.62	2096.6	FIRME	14.947	298.94	4266.7
	SUBBALASTO	3.851	77.01	1087.7	REVES CUNETAS	0.155	3.09	26.3
	D TIERRA	19.099	406.54	5428.3	SUELO SEL 1	5.157	103.13	1485.8
	BALASTO	3.866	77.31	1082.4				
440.000	CAPA DE FORMA	8.267	929.84	3026.5	FIRME	16.077	1861.45	6128.1
	SUBBALASTO	3.945	467.77	1555.4	REVES CUNETAS	0.000	9.28	35.6
	D TIERRA	10.050	1748.97	7177.2	SUELO SEL 1	5.778	656.08	2141.9
	BALASTO	3.865	463.85	1546.3				
460.000	CAPA DE FORMA	8.543	168.10	3194.6	FIRME	16.355	324.32	6452.5
	SUBBALASTO	3.947	78.92	1634.4	D TIERRA	6.840	168.90	7346.1
	SUELO SEL 1	6.084	118.62	2260.5	BALASTO	3.865	77.31	1623.6
660.000	CAPA DE FORMA	8.639	0.00	3194.6	FIRME	17.168	0.00	6452.5
	SUBBALASTO	3.945	0.00	1634.4	D TIERRA	0.115	0.00	7346.1
	SUELO SEL 1	6.648	0.00	2260.5	TERRAPLEN	2.943	0.00	0.0
	BALASTO	4.584	0.00	1623.6				
680.000	CAPA DE FORMA	8.641	172.79	3367.4	FIRME	17.168	343.35	6795.8
	SUBBALASTO	3.945	78.90	1713.3	D TIERRA	1.322	14.37	7360.5
	SUELO SEL 1	6.504	131.52	2392.1	TERRAPLEN	0.986	39.29	39.3
	BALASTO	4.582	91.66	1715.2				
720.000	CAPA DE FORMA	8.640	345.61	3713.0	FIRME	17.168	686.71	7482.5
	SUBBALASTO	3.945	157.79	1871.0	D TIERRA	0.380	34.05	7394.6
	SUELO SEL 1	6.592	261.93	2654.0	TERRAPLEN	7.022	160.14	199.4
	BALASTO	4.584	183.31	1898.5				
760.000	CAPA DE FORMA	7.232	317.43	4030.4	FIRME	15.664	656.65	8139.2





PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	SUBBALASTO	3.850	155.89	2026.9	REVES CUNETAS	0.155	3.09	38.7
	D TIERRA	104.054	2088.70	9483.3	SUELO SEL 1	5.157	234.98	2889.0
	TERRAPLEN	0.000	140.43	339.9	BALASTO	4.583	183.32	2081.9
780.000	CAPA DE FORMA	7.232	144.64	4175.0	FIRME	15.665	313.29	8452.5
	SUBBALASTO	3.850	76.99	2103.9	REVES CUNETAS	0.155	3.09	41.8
	D TIERRA	311.961	4160.15	13643.4	SUELO SEL 1	5.156	103.12	2992.1
800.000	BALASTO	4.584	91.66	2173.5				
	CAPA DE FORMA	6.415	0.00	4175.0	FIRME	14.096	0.00	8452.5
	REVESTIMIENTO	16.207	0.00	0.0	SUBBALASTO	3.487	0.00	2103.9
820.000	BALASTO	4.195	0.00	2173.5	EXC TUNEL T	253.943	0.00	0.0
	CAPA DE FORMA	6.415	128.30	4303.3	FIRME	14.096	281.93	8734.4
	REVESTIMIENTO	16.206	324.13	324.1	SUBBALASTO	3.487	69.73	2173.7
840.000	BALASTO	4.194	83.89	2257.4	EXC TUNEL T	253.942	5078.85	5078.8
	CAPA DE FORMA	6.415	128.31	4431.6	FIRME	14.096	281.92	9016.3
	REVESTIMIENTO	16.209	324.15	648.3	SUBBALASTO	3.486	69.73	2243.4
860.000	BALASTO	4.194	83.89	2341.3	EXC TUNEL T	253.943	5078.86	10157.7
	CAPA DE FORMA	6.415	128.30	4559.9	FIRME	14.097	281.93	9298.2
	REVESTIMIENTO	16.207	324.16	972.4	SUBBALASTO	3.486	69.73	2313.1
880.000	BALASTO	4.195	83.89	2425.2	EXC TUNEL T	253.943	5078.86	15236.6
	CAPA DE FORMA	6.416	128.31	4688.3	FIRME	14.097	281.93	9580.2
	REVESTIMIENTO	16.207	324.14	1296.6	SUBBALASTO	3.486	69.72	2382.8
900.000	BALASTO	4.194	83.89	2509.1	EXC TUNEL T	253.943	5078.86	20315.4
	CAPA DE FORMA	6.416	128.32	4816.6	FIRME	14.097	281.93	9862.1
	REVESTIMIENTO	16.207	324.15	1620.7	SUBBALASTO	3.486	69.72	2452.6
920.000	BALASTO	4.195	83.89	2593.0	EXC TUNEL T	253.943	5078.86	25394.3
	CAPA DE FORMA	6.415	128.31	4944.9	FIRME	14.097	281.93	10144.0
	REVESTIMIENTO	16.207	324.14	1944.9	SUBBALASTO	3.486	69.73	2522.3
940.000	BALASTO	4.195	83.90	2676.9	EXC TUNEL T	253.943	5078.85	30473.1
	CAPA DE FORMA	6.415	128.30	5073.2	FIRME	14.097	281.93	10426.0
	REVESTIMIENTO	16.206	324.13	2269.0	SUBBALASTO	3.487	69.73	2592.0
960.000	BALASTO	4.195	83.90	2760.8	EXC TUNEL T	253.943	5078.86	35552.0
	CAPA DE FORMA	6.416	128.31	5201.5	FIRME	14.096	281.93	10707.9
	REVESTIMIENTO	16.208	324.14	2593.1	SUBBALASTO	3.486	69.73	2661.8
980.000	BALASTO	4.194	83.89	2844.7	EXC TUNEL T	253.944	5078.87	40630.9
	CAPA DE FORMA	6.415	128.31	5329.8	FIRME	14.097	281.93	10989.8
	REVESTIMIENTO	16.208	324.15	2917.3	SUBBALASTO	3.486	69.72	2731.5

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1.000.00	BALASTO	4.195	83.89	2928.5	EXC TUNEL T	253.942	5078.86	45709.7
	CAPA DE FORMA	6.415	128.31	5458.1	FIRME	14.097	281.93	11271.7
	REVESTIMIENTO	16.207	324.14	3241.4	SUBBALASTO	3.487	69.73	2801.2
1.020.000	BALASTO	4.195	83.90	3012.4	EXC TUNEL T	253.943	5078.86	50788.6
	CAPA DE FORMA	6.415	128.31	5586.4	FIRME	14.096	281.92	11553.7
	REVESTIMIENTO	16.209	324.16	3565.6	SUBBALASTO	3.486	69.73	2870.9
1.040.000	BALASTO	4.194	83.89	3096.3	EXC TUNEL T	253.943	5078.86	55867.4
	CAPA DE FORMA	6.415	128.31	5714.7	FIRME	14.097	281.93	11835.6
	REVESTIMIENTO	16.207	324.16	3889.7	SUBBALASTO	3.487	69.73	2940.7
1.060.000	BALASTO	4.195	83.89	3180.2	EXC TUNEL T	253.942	5078.85	60946.3
	CAPA DE FORMA	6.416	128.31	5843.0	FIRME	14.096	281.93	12117.5
	REVESTIMIENTO	16.208	324.15	4213.9	SUBBALASTO	3.486	69.73	3010.4
1.080.000	BALASTO	4.194	83.89	3264.1	EXC TUNEL T	253.943	5078.84	66025.1
	CAPA DE FORMA	6.415	128.31	5971.4	FIRME	14.096	281.92	12399.4
	REVESTIMIENTO	16.208	324.17	4538.1	SUBBALASTO	3.486	69.73	3080.1
1.100.000	BALASTO	4.194	83.88	3348.0	EXC TUNEL T	253.943	5078.85	71104.0
	CAPA DE FORMA	6.415	128.30	6099.7	FIRME	14.096	281.92	12681.4
	REVESTIMIENTO	16.208	324.17	4862.2	SUBBALASTO	3.486	69.73	3149.9
1.120.000	BALASTO	4.195	83.89	3431.9	EXC TUNEL T	253.943	5078.86	76182.9
	CAPA DE FORMA	6.416	128.31	6228.0	FIRME	14.096	281.93	12963.3
	REVESTIMIENTO	16.208	324.16	5186.4	SUBBALASTO	3.486	69.72	3219.6
1.140.000	BALASTO	4.194	83.89	3515.8	EXC TUNEL T	253.943	5078.86	81261.7
	CAPA DE FORMA	6.416	128.32	6356.3	FIRME	14.096	281.92	13245.2
	REVESTIMIENTO	16.208	324.16	5510.5	SUBBALASTO	3.486	69.72	3289.3
1.160.000	BALASTO	4.194	83.88	3599.6	EXC TUNEL T	253.943	5078.85	86340.6
	CAPA DE FORMA	6.415	128.31	6484.6	FIRME	14.096	281.92	13527.1
	REVESTIMIENTO	16.209	324.18	5834.7	SUBBALASTO	3.486	69.73	3359.0
1.180.000	BALASTO	4.194	83.88	3683.5	EXC TUNEL T	253.944	5078.86	91419.4
	CAPA DE FORMA	6.415	128.30	6612.9	FIRME	14.097	281.93	13809.1
	REVESTIMIENTO	16.207	324.17	6158.9	SUBBALASTO	3.487	69.73	3428.8
1.200.000	BALASTO	4.195	83.89	3767.4	EXC TUNEL T	253.942	5078.86	96498.3
	CAPA DE FORMA	6.416	128.31	6741.2	FIRME	14.096	281.93	14091.0
	REVESTIMIENTO	16.207	324.15	6483.0	SUBBALASTO	3.486	69.73	3498.5
1.220.000	BALASTO	4.194	83.89	3851.3	EXC TUNEL T	253.943	5078.85	101577.1
	CAPA DE FORMA	6.415	128.31	6869.5	FIRME	14.096	281.92	14372.9
	REVESTIMIENTO	16.209	324.16	6807.2	SUBBALASTO	3.486	69.72	3568.2
	BALASTO	4.194	83.88	3935.2	EXC TUNEL T	253.943	5078.86	106656.0



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1.240.000	CAPA DE FORMA	6.415	128.31	6997.8	FIRME	14.097	281.92	14654.8
	REVESTIMIENTO	16.208	324.16	7131.4	SUBBALASTO	3.487	69.73	3637.9
	BALASTO	4.195	83.89	4019.1	EXC TUNEL T	253.942	5078.85	111734.8
1.260.000	CAPA DE FORMA	6.416	128.31	7126.1	FIRME	14.096	281.93	14936.7
	REVESTIMIENTO	16.208	324.16	7455.5	SUBBALASTO	3.486	69.73	3707.7
	BALASTO	4.194	83.89	4103.0	EXC TUNEL T	253.943	5078.85	116813.7
1.280.000	CAPA DE FORMA	6.415	128.31	7254.4	FIRME	14.096	281.92	15218.7
	REVESTIMIENTO	16.209	324.17	7779.7	SUBBALASTO	3.486	69.72	3777.4
	BALASTO	4.194	83.88	4186.8	EXC TUNEL T	253.943	5078.85	121892.5
1.300.000	CAPA DE FORMA	6.415	128.31	7382.8	FIRME	14.097	281.92	15500.6
	REVESTIMIENTO	16.207	324.15	8103.8	SUBBALASTO	3.487	69.73	3847.1
	BALASTO	4.194	83.89	4270.7	EXC TUNEL T	253.942	5078.84	126971.4
1.320.000	CAPA DE FORMA	6.416	128.31	7511.1	FIRME	14.096	281.93	15782.5
	REVESTIMIENTO	16.208	324.15	8428.0	SUBBALASTO	3.486	69.73	3916.9
	BALASTO	4.194	83.88	4354.6	EXC TUNEL T	253.942	5078.84	132050.2
1.340.000	CAPA DE FORMA	6.415	128.31	7639.4	FIRME	14.096	281.92	16064.4
	REVESTIMIENTO	16.207	324.15	8752.1	SUBBALASTO	3.487	69.73	3986.6
	BALASTO	4.194	83.88	4438.5	EXC TUNEL T	253.943	5078.85	137129.1
1.360.000	CAPA DE FORMA	6.415	128.31	7767.7	FIRME	14.096	281.92	16346.4
	REVESTIMIENTO	16.208	324.15	9076.3	SUBBALASTO	3.486	69.73	4056.3
	BALASTO	4.194	83.88	4522.4	EXC TUNEL T	253.942	5078.85	142207.9
1.380.000	CAPA DE FORMA	6.415	128.30	7896.0	FIRME	14.097	281.93	16628.3
	REVESTIMIENTO	16.208	324.15	9400.4	SUBBALASTO	3.486	69.73	4126.0
	BALASTO	4.195	83.89	4606.3	EXC TUNEL T	253.943	5078.85	147286.8
1.400.000	CAPA DE FORMA	6.415	128.31	8024.3	FIRME	14.096	281.93	16910.2
	REVESTIMIENTO	16.208	324.15	9724.6	SUBBALASTO	3.486	69.73	4195.8
	BALASTO	4.194	83.89	4690.2	EXC TUNEL T	253.943	5078.85	152365.6
1.420.000	CAPA DE FORMA	6.416	128.31	8152.6	FIRME	14.096	281.92	17192.1
	REVESTIMIENTO	16.208	324.16	10048.8	SUBBALASTO	3.486	69.73	4265.5
	BALASTO	4.194	83.88	4774.1	EXC TUNEL T	253.943	5078.86	157444.5
1.440.000	CAPA DE FORMA	6.415	128.31	8280.9	FIRME	14.097	281.92	17474.1
	REVESTIMIENTO	16.207	324.16	10372.9	SUBBALASTO	3.486	69.73	4335.2
	BALASTO	4.195	83.89	4857.9	EXC TUNEL T	253.942	5078.85	162523.3
1.460.000	CAPA DE FORMA	7.231	0.00	8280.9	FIRME	15.664	0.00	17474.1
	SUBBALASTO	3.851	0.00	4335.2	REVES CUNETETA	0.155	0.00	41.8
	D TIERRA	370.906	0.00	13643.4	SUELO SEL 1	5.156	0.00	2992.1

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1.480.000	BALASTO	4.582	0.00	4857.9				
	CAPA DE FORMA	7.232	144.63	8425.5	FIRME	15.664	313.28	17787.3
	SUBBALASTO	3.850	77.01	4412.2	REVES CUNETETA	0.155	3.09	44.9
1.500.000	D TIERRA	295.492	6663.98	20307.4	SUELO SEL 1	5.156	103.12	3095.2
	BALASTO	4.582	91.64	4949.6				
	CAPA DE FORMA	7.232	144.64	8570.2	FIRME	15.665	313.29	18100.6
1.520.000	SUBBALASTO	3.850	76.99	4489.2	REVES CUNETETA	0.155	3.10	48.0
	D TIERRA	239.146	5346.38	25653.8	SUELO SEL 1	5.155	103.11	3198.3
	BALASTO	4.583	91.66	5041.2				
1.540.000	CAPA DE FORMA	7.231	144.63	8714.8	FIRME	15.664	313.29	18413.9
	SUBBALASTO	3.851	77.01	4566.2	REVES CUNETETA	0.155	3.09	51.1
	D TIERRA	203.893	4430.39	30084.2	SUELO SEL 1	5.156	103.11	3301.4
1.560.000	BALASTO	4.582	91.66	5132.9				
	CAPA DE FORMA	7.231	144.62	8859.4	FIRME	15.664	313.29	18727.2
	SUBBALASTO	3.851	77.02	4643.3	REVES CUNETETA	0.155	3.09	54.2
1.580.000	D TIERRA	182.114	3860.07	33944.2	SUELO SEL 1	5.156	103.11	3404.5
	BALASTO	4.582	91.64	5224.5				
	CAPA DE FORMA	7.232	144.63	9004.1	FIRME	15.254	309.18	19036.4
1.600.000	SUBBALASTO	3.850	77.01	4720.3	REVES CUNETETA	0.155	3.09	57.2
	D TIERRA	162.344	3444.58	37388.8	SUELO SEL 1	5.156	103.12	3507.7
	BALASTO	4.172	87.54	5312.1				
1.620.000	CAPA DE FORMA	7.231	144.63	9148.7	FIRME	14.948	302.01	19338.4
	SUBBALASTO	3.851	77.01	4797.3	REVES CUNETETA	0.155	3.09	60.3
	D TIERRA	130.966	2933.10	40321.9	SUELO SEL 1	5.156	103.12	3610.8
1.640.000	BALASTO	3.865	80.37	5392.5				
	CAPA DE FORMA	7.232	144.63	9293.3	FIRME	14.947	298.95	19637.3
	SUBBALASTO	3.850	77.01	4874.3	REVES CUNETETA	0.155	3.09	63.4
1.660.000	D TIERRA	96.067	2270.33	42592.2	SUELO SEL 1	5.156	103.12	3713.9
	BALASTO	3.865	77.31	5469.8				
	CAPA DE FORMA	7.232	144.64	9438.0	FIRME	14.947	298.94	19936.3
1.680.000	SUBBALASTO	3.850	77.00	4951.3	REVES CUNETETA	0.155	3.10	66.5
	D TIERRA	58.643	1547.10	44139.4	SUELO SEL 1	5.156	103.12	3817.0
	BALASTO	3.866	77.31	5547.1				
1.640.000	CAPA DE FORMA	7.935	151.67	9589.6	FIRME	15.699	306.46	20242.7



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	SUBBALASTO	3.897	77.47	5028.8	REVES CUNETETA	0.077	2.32	68.9
	D TIERRA	24.687	833.30	44972.7	SUELO SEL 1	5.907	110.64	3927.7
	TERRAPLEN	2.194	21.94	361.8	BALASTO	3.867	77.32	5624.4
1.660.000	CAPA DE FORMA	8.126	160.61	9750.2	FIRME	15.934	316.33	20559.1
	SUBBALASTO	3.943	78.40	5107.2	REVES CUNETETA	0.000	0.77	69.6
	D TIERRA	2.101	267.88	45240.5	SUELO SEL 1	6.012	119.20	4046.9
1.680.000	TERRAPLEN	25.435	276.29	638.1	BALASTO	3.865	77.32	5701.7
	CAPA DE FORMA	7.105	0.00	9750.2	FIRME	14.782	0.00	20559.1
1.700.000	SUBBALASTO	3.811	0.00	5107.2	BALASTO	3.865	0.00	5701.7
	CAPA DE FORMA	7.105	142.10	9892.3	FIRME	14.783	295.64	20854.7
1.720.000	SUBBALASTO	3.811	76.22	5183.4	BALASTO	3.867	77.32	5779.0
	CAPA DE FORMA	7.106	142.10	10034.4	FIRME	14.834	296.16	21150.9
1.740.000	SUBBALASTO	3.811	76.22	5259.6	BALASTO	3.918	77.84	5856.9
	CAPA DE FORMA	7.105	142.10	10176.5	FIRME	15.271	301.05	21451.9
1.760.000	SUBBALASTO	3.812	76.22	5335.8	BALASTO	4.355	82.72	5939.6
	CAPA DE FORMA	7.105	142.09	10318.6	FIRME	15.499	307.70	21759.6
1.780.000	SUBBALASTO	3.812	76.23	5412.1	BALASTO	4.583	89.37	6029.0
	CAPA DE FORMA	7.105	142.10	10460.7	FIRME	15.499	309.98	22069.6
1.800.000	SUBBALASTO	3.811	76.22	5488.3	BALASTO	4.583	91.66	6120.6
	CAPA DE FORMA	7.105	142.10	10602.8	FIRME	15.499	309.98	22379.6
1.820.000	SUBBALASTO	3.811	76.22	5564.5	BALASTO	4.583	91.66	6212.3
	CAPA DE FORMA	7.105	142.10	10744.9	FIRME	15.499	309.97	22689.6
1.840.000	SUBBALASTO	3.811	76.23	5640.7	BALASTO	4.582	91.65	6303.9
	CAPA DE FORMA	7.105	142.10	10887.0	FIRME	15.499	309.98	22999.5
1.860.000	SUBBALASTO	3.811	76.22	5716.9	BALASTO	4.583	91.66	6395.6
	CAPA DE FORMA	7.105	142.10	11029.1	FIRME	15.499	309.98	23309.5
1.880.000	SUBBALASTO	3.812	76.22	5793.2	BALASTO	4.583	91.66	6487.3
	CAPA DE FORMA	7.105	142.10	11171.2	FIRME	15.499	309.98	23619.5
1.900.000	SUBBALASTO	3.812	76.23	5869.4	BALASTO	4.582	91.65	6578.9
	CAPA DE FORMA	8.640	0.00	11171.2	FIRME	17.168	0.00	23619.5
1.920.000	SUBBALASTO	3.945	0.00	5869.4	SUELO SEL 1	6.659	0.00	4046.9
	TERRAPLEN	360.153	0.00	638.1	BALASTO	4.583	0.00	6578.9
	CAPA DE FORMA	8.639	172.79	11344.0	FIRME	17.168	343.36	23962.9
	SUBBALASTO	3.945	78.91	5948.3	SUELO SEL 1	6.659	133.19	4180.0
	TERRAPLEN	127.948	4881.01	5519.1	BALASTO	4.583	91.66	6670.6

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1.940.000	CAPA DE FORMA	8.076	167.15	11511.2	FIRME	16.601	337.69	24300.6
	SUBBALASTO	3.943	78.88	6027.2	D TIERRA	11.364	113.64	45354.2
	SUELO SEL 1	5.719	123.78	4303.8	TERRAPLEN	0.000	1279.48	6798.6
1.960.000	BALASTO	4.582	91.66	6762.2				
	CAPA DE FORMA	7.232	153.08	11664.2	FIRME	15.664	322.66	24623.2
	SUBBALASTO	3.850	77.93	6105.1	REVES CUNETETA	0.155	1.55	71.2
1.980.000	D TIERRA	115.475	1268.38	46622.5	SUELO SEL 1	5.156	108.75	4412.6
	BALASTO	4.583	91.65	6853.9				
	CAPA DE FORMA	7.231	144.62	11808.9	FIRME	15.664	313.29	24936.5
2.000.000	SUBBALASTO	3.850	77.00	6182.1	REVES CUNETETA	0.155	3.09	74.3
	D TIERRA	288.995	4044.69	50667.2	SUELO SEL 1	5.156	103.12	4515.7
	BALASTO	4.583	91.66	6945.5				
2.020.000	CAPA DE FORMA	7.231	144.62	11953.5	FIRME	15.664	313.29	25249.8
	SUBBALASTO	3.851	77.01	6259.1	REVES CUNETETA	0.155	3.09	77.4
	D TIERRA	430.252	7192.46	57859.7	SUELO SEL 1	5.156	103.12	4618.8
2.040.000	BALASTO	4.582	91.66	7037.2				
	CAPA DE FORMA	7.232	144.63	12098.1	FIRME	15.664	313.28	25563.1
	SUBBALASTO	3.850	77.01	6336.1	REVES CUNETETA	0.155	3.09	80.5
2.060.000	D TIERRA	559.745	9899.97	67759.7	SUELO SEL 1	5.157	103.12	4721.9
	BALASTO	4.583	91.65	7128.8				
	CAPA DE FORMA	7.232	144.63	12242.7	FIRME	15.665	313.29	25876.4
2.080.000	SUBBALASTO	3.850	76.99	6413.1	REVES CUNETETA	0.155	3.09	83.6
	D TIERRA	679.854	12396.00	80155.7	SUELO SEL 1	5.155	103.12	4825.0
	BALASTO	4.583	91.66	7220.5				
2.100.000	CAPA DE FORMA	7.231	144.63	12387.4	FIRME	15.664	313.29	26189.7
	SUBBALASTO	3.851	77.01	6490.1	REVES CUNETETA	0.155	3.09	86.6
	D TIERRA	734.224	14140.78	94296.4	SUELO SEL 1	5.156	103.11	4928.2
2.120.000	BALASTO	4.582	91.66	7312.2				
	CAPA DE FORMA	7.232	144.63	12532.0	FIRME	15.664	313.28	26502.9
	SUBBALASTO	3.850	77.01	6567.1	REVES CUNETETA	0.155	3.09	89.7
2.140.000	D TIERRA	696.981	14312.04	108608.5	SUELO SEL 1	5.156	103.12	5031.3
	BALASTO	4.582	91.65	7403.8				
	CAPA DE FORMA	7.232	144.64	12676.6	FIRME	15.664	313.28	26816.2
	SUBBALASTO	3.850	76.99	6644.1	REVES CUNETETA	0.155	3.10	92.8





PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	D TIERRA	595.843	12928.24	121536.7	SUELO SEL 1	5.155	103.12	5134.4
	BALASTO	4.583	91.65	7495.5				
2.120.000	CAPA DE FORMA	7.231	144.63	12821.3	FIRME	15.665	313.29	27129.5
	SUBBALASTO	3.850	76.99	6721.1	REVES CUNETAS	0.155	3.09	95.9
	D TIERRA	480.417	10762.61	132299.3	SUELO SEL 1	5.156	103.11	5237.5
	BALASTO	4.584	91.67	7587.1				
2.140.000	CAPA DE FORMA	7.232	144.63	12965.9	FIRME	15.664	313.29	27442.8
	SUBBALASTO	3.850	77.00	6798.1	REVES CUNETAS	0.155	3.09	99.0
	D TIERRA	389.990	8704.08	141003.4	SUELO SEL 1	5.156	103.12	5340.6
	BALASTO	4.582	91.66	7678.8				
2.160.000	CAPA DE FORMA	7.232	144.63	13110.5	FIRME	15.665	313.29	27756.1
	SUBBALASTO	3.850	77.00	6875.1	REVES CUNETAS	0.155	3.10	102.1
	D TIERRA	305.088	6950.78	147954.2	SUELO SEL 1	5.156	103.12	5443.8
	BALASTO	4.583	91.65	7770.4				
2.180.000	CAPA DE FORMA	7.231	144.63	13255.2	FIRME	15.665	313.29	28069.4
	SUBBALASTO	3.850	77.00	6952.1	REVES CUNETAS	0.155	3.09	105.2
	D TIERRA	228.335	5334.23	153288.4	SUELO SEL 1	5.156	103.12	5546.9
	BALASTO	4.583	91.66	7862.1				
2.200.000	CAPA DE FORMA	7.233	144.64	13399.8	FIRME	15.665	313.29	28382.7
	SUBBALASTO	3.850	77.00	7029.1	REVES CUNETAS	0.155	3.09	108.3
	D TIERRA	238.808	4671.43	157959.9	SUELO SEL 1	5.156	103.11	5650.0
	BALASTO	4.582	91.65	7953.8				
2.220.000	CAPA DE FORMA	7.232	144.65	13544.5	FIRME	15.664	313.29	28696.0
	SUBBALASTO	3.850	76.99	7106.1	REVES CUNETAS	0.155	3.10	111.4
	D TIERRA	289.754	5285.62	163245.5	SUELO SEL 1	5.156	103.11	5753.1
	BALASTO	4.582	91.64	8045.4				
2.240.000	CAPA DE FORMA	7.231	144.64	13689.1	FIRME	15.664	313.29	29009.2
	SUBBALASTO	3.851	77.01	7183.1	REVES CUNETAS	0.155	3.09	114.5
	D TIERRA	311.966	6017.20	169262.7	SUELO SEL 1	5.156	103.12	5856.2
	BALASTO	4.582	91.64	8137.0				
2.260.000	CAPA DE FORMA	7.232	144.63	13833.7	FIRME	15.664	313.28	29322.5
	SUBBALASTO	3.850	77.01	7260.1	REVES CUNETAS	0.155	3.09	117.6
	D TIERRA	291.387	6033.53	175296.2	SUELO SEL 1	5.156	103.12	5959.3
	BALASTO	4.582	91.64	8228.7				

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2.280.000	CAPA DE FORMA	7.232	144.64	13978.4	FIRME	15.664	313.28	29635.8
	SUBBALASTO	3.850	76.99	7337.1	REVES CUNETAS	0.155	3.09	120.7
	D TIERRA	238.035	5294.23	180590.4	SUELO SEL 1	5.157	103.12	6062.5
	BALASTO	4.583	91.65	8320.3				
2.300.000	CAPA DE FORMA	7.231	144.63	14123.0	FIRME	15.664	313.28	29949.1
	SUBBALASTO	3.851	77.01	7414.2	REVES CUNETAS	0.155	3.09	123.8
	D TIERRA	176.676	4147.11	184737.5	SUELO SEL 1	5.156	103.12	6165.6
	BALASTO	4.582	91.65	8412.0				
2.320.000	CAPA DE FORMA	7.232	144.63	14267.6	FIRME	15.665	313.29	30262.4
	SUBBALASTO	3.850	77.01	7491.2	REVES CUNETAS	0.155	3.09	126.9
	D TIERRA	119.116	2957.92	187695.5	SUELO SEL 1	5.156	103.12	6268.7
	BALASTO	4.583	91.65	8503.6				
2.340.000	CAPA DE FORMA	7.232	144.64	14412.2	FIRME	15.664	313.29	30575.7
	SUBBALASTO	3.850	77.00	7568.2	REVES CUNETAS	0.155	3.10	130.0
	D TIERRA	70.861	1899.76	189595.2	SUELO SEL 1	5.156	103.13	6371.8
	BALASTO	4.583	91.65	8595.3				
2.360.000	CAPA DE FORMA	7.936	151.67	14563.9	FIRME	16.416	320.80	30896.5
	SUBBALASTO	3.898	77.47	7645.6	REVES CUNETAS	0.077	2.32	132.3
	D TIERRA	33.843	1047.04	190642.3	SUELO SEL 1	5.908	110.64	6482.5
	TERRAPLEN	7.277	72.77	6871.4	BALASTO	4.583	91.65	8686.9
2.380.000	CAPA DE FORMA	8.224	161.59	14725.5	FIRME	16.727	331.43	31227.9
	SUBBALASTO	3.921	78.19	7723.8	REVES CUNETAS	0.077	1.55	133.8
	D TIERRA	8.101	419.44	191061.7	SUELO SEL 1	6.200	121.08	6603.5
	TERRAPLEN	145.046	1523.23	8394.6	BALASTO	4.582	91.65	8778.6
2.400.000	CAPA DE FORMA	8.865	170.89	14896.4	FIRME	17.416	341.43	31569.3
	SUBBALASTO	3.967	78.88	7802.7	REVES CUNETAS	0.000	0.77	134.6
	D TIERRA	0.422	85.23	191146.9	SUELO SEL 1	6.642	128.42	6732.0
	TERRAPLEN	235.461	3805.07	12199.7	BALASTO	4.583	91.66	8870.2
2.420.000	CAPA DE FORMA	8.928	177.94	15074.3	FIRME	17.479	348.95	31918.3
	SUBBALASTO	3.967	79.35	7882.1	D TIERRA	0.000	4.22	191151.1
	SUELO SEL 1	6.952	135.94	6867.9	TERRAPLEN	216.240	4517.01	16716.7
	BALASTO	4.583	91.67	8961.9				
2.440.000	CAPA DE FORMA	8.927	178.56	15252.9	FIRME	17.478	349.57	32267.8
	SUBBALASTO	3.969	79.36	7961.4	SUELO SEL 1	6.951	139.03	7006.9
	TERRAPLEN	178.129	3943.69	20660.4	BALASTO	4.582	91.66	9053.6



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2.460.000	CAPA DE FORMA	8.640	175.68	15428.6	FIRME	17.167	346.45	32614.3
	SUBBALASTO	3.945	79.13	8040.6	SUELO SEL 1	6.659	136.11	7143.0
	TERRAPLEN	135.387	3135.16	23795.5	BALASTO	4.582	91.64	9145.2
2.480.000	CAPA DE FORMA	8.639	172.79	15601.4	FIRME	17.167	343.34	32957.6
	SUBBALASTO	3.946	78.91	8119.5	SUELO SEL 1	6.660	133.19	7276.2
	TERRAPLEN	142.393	2777.79	26573.3	BALASTO	4.582	91.64	9236.9
2.500.000	CAPA DE FORMA	8.639	172.78	15774.1	FIRME	17.167	343.35	33301.0
	SUBBALASTO	3.946	78.92	8198.4	SUELO SEL 1	6.660	133.20	7409.4
	TERRAPLEN	174.807	3172.00	29745.3	BALASTO	4.582	91.64	9328.5
2.520.000	CAPA DE FORMA	8.640	172.79	15946.9	FIRME	17.167	343.34	33644.3
	SUBBALASTO	3.945	78.91	8277.3	SUELO SEL 1	6.659	133.19	7542.6
	TERRAPLEN	217.792	3925.99	33671.3	BALASTO	4.582	91.64	9420.1
2.540.000	CAPA DE FORMA	8.640	172.80	16119.7	FIRME	16.781	339.48	33983.8
	SUBBALASTO	3.945	78.90	8356.2	SUELO SEL 1	6.659	133.18	7675.8
	TERRAPLEN	213.032	4308.24	37979.5	BALASTO	4.196	87.78	9507.9
2.560.000	CAPA DE FORMA	8.640	172.80	16292.5	FIRME	16.451	332.32	34316.1
	SUBBALASTO	3.945	78.90	8435.1	SUELO SEL 1	6.659	133.18	7809.0
	TERRAPLEN	170.793	3838.24	41817.8	BALASTO	3.866	80.62	9588.6
2.580.000	CAPA DE FORMA	8.640	172.80	16465.3	FIRME	16.450	329.01	34645.1
	SUBBALASTO	3.945	78.90	8514.0	SUELO SEL 1	6.659	133.18	7942.2
	TERRAPLEN	101.860	2726.53	44544.3	BALASTO	3.866	77.32	9665.9
2.600.000	CAPA DE FORMA	8.639	172.79	16638.1	FIRME	16.451	329.01	34974.2
	SUBBALASTO	3.945	78.90	8592.9	SUELO SEL 1	6.659	133.19	8075.4
	TERRAPLEN	64.303	1661.64	46206.0	BALASTO	3.867	77.33	9743.2
2.620.000	CAPA DE FORMA	8.639	172.78	16810.9	FIRME	16.451	329.02	35303.2
	SUBBALASTO	3.945	78.90	8671.8	SUELO SEL 1	6.659	133.19	8208.5
	TERRAPLEN	36.668	1009.72	47215.7	BALASTO	3.867	77.34	9820.5
2.640.000	CAPA DE FORMA	8.639	172.78	16983.7	FIRME	16.451	329.02	35632.2
	SUBBALASTO	3.945	78.90	8750.7	SUELO SEL 1	6.659	133.18	8341.7
	TERRAPLEN	30.750	674.18	47889.9	BALASTO	3.867	77.34	9897.9
2.660.000	CAPA DE FORMA	8.639	172.78	17156.5	FIRME	16.451	329.02	35961.2
	SUBBALASTO	3.945	78.90	8829.6	SUELO SEL 1	6.659	133.18	8474.9
	TERRAPLEN	31.784	625.34	48515.2	BALASTO	3.867	77.34	9975.2
2.680.000	CAPA DE FORMA	8.640	172.79	17329.2	FIRME	16.450	329.01	36290.2
	SUBBALASTO	3.945	78.90	8908.5	SUELO SEL 1	6.659	133.19	8608.1
	TERRAPLEN	55.392	871.76	49387.0	BALASTO	3.865	77.32	10052.5

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2.700.000	CAPA DE FORMA	8.640	172.80	17502.0	FIRME	16.606	330.56	36620.8
	SUBBALASTO	3.945	78.90	8987.4	SUELO SEL 1	6.659	133.18	8741.3
	TERRAPLEN	58.472	1138.65	50525.6	BALASTO	4.021	78.86	10131.4
2.720.000	CAPA DE FORMA	7.926	165.66	17667.7	FIRME	16.291	328.97	36949.7
	SUBBALASTO	3.897	78.43	9065.8	REVES CUNETETA	0.077	0.77	135.4
	D TIERRA	40.507	405.07	191556.2	SUELO SEL 1	5.712	123.71	8865.0
	TERRAPLEN	0.000	584.72	51110.3	BALASTO	4.467	84.88	10216.3
2.740.000	CAPA DE FORMA	7.233	151.59	17819.3	FIRME	15.664	319.55	37269.3
	SUBBALASTO	3.850	77.47	9143.3	REVES CUNETETA	0.155	2.32	137.7
	D TIERRA	124.462	1649.69	193205.9	SUELO SEL 1	5.156	108.67	8973.7
	BALASTO	4.582	90.49	10306.8				
2.760.000	CAPA DE FORMA	7.233	144.65	17963.9	FIRME	15.664	313.29	37582.6
	SUBBALASTO	3.850	76.99	9220.3	REVES CUNETETA	0.155	3.09	140.8
	D TIERRA	126.297	2507.59	195713.5	SUELO SEL 1	5.156	103.12	9076.8
	BALASTO	4.582	91.64	10398.4				
2.780.000	CAPA DE FORMA	7.232	144.65	18108.6	FIRME	15.664	313.29	37895.9
	SUBBALASTO	3.850	76.99	9297.3	REVES CUNETETA	0.155	3.09	143.9
	D TIERRA	107.176	2334.74	198048.2	SUELO SEL 1	5.156	103.12	9179.9
	BALASTO	4.582	91.64	10490.1				
2.800.000	CAPA DE FORMA	7.231	144.63	18253.2	FIRME	15.664	313.29	38209.2
	SUBBALASTO	3.851	77.01	9374.3	REVES CUNETETA	0.155	3.09	147.0
	D TIERRA	177.275	2844.51	200892.7	SUELO SEL 1	5.156	103.12	9283.0
	BALASTO	4.582	91.64	10581.7				
2.820.000	CAPA DE FORMA	7.232	144.63	18397.9	FIRME	15.664	313.29	38522.4
	SUBBALASTO	3.850	77.01	9451.3	REVES CUNETETA	0.155	3.10	150.1
	D TIERRA	159.190	3364.65	204257.4	SUELO SEL 1	5.155	103.11	9386.1
	BALASTO	4.583	91.65	10673.4				
2.840.000	CAPA DE FORMA	7.232	144.64	18542.5	FIRME	15.664	313.29	38835.7
	SUBBALASTO	3.850	76.99	9528.3	REVES CUNETETA	0.155	3.10	153.2
	D TIERRA	151.241	3104.31	207361.7	SUELO SEL 1	5.156	103.11	9489.2
	BALASTO	4.583	91.65	10765.0				
2.860.000	CAPA DE FORMA	7.232	144.64	18687.1	FIRME	15.664	313.29	39149.0
	SUBBALASTO	3.850	76.99	9605.3	REVES CUNETETA	0.155	3.09	156.3
	D TIERRA	130.256	2814.98	210176.7	SUELO SEL 1	5.157	103.13	9592.4



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	BALASTO	4.583	91.65	10856.7				
2.880.000	CAPA DE FORMA	7.232	144.64	18831.8	FIRME	15.665	313.29	39462.3
	SUBBALASTO	3.850	76.99	9682.3	REVES CUNETAS	0.155	3.09	159.4
	D TIERRA	106.980	2372.36	212549.1	SUELO SEL 1	5.156	103.12	9695.5
	BALASTO	4.583	91.66	10948.3				
2.900.000	CAPA DE FORMA	7.231	144.63	18976.4	FIRME	15.664	313.29	39775.6
	SUBBALASTO	3.851	77.01	9759.3	REVES CUNETAS	0.155	3.09	162.5
	D TIERRA	88.660	1956.40	214505.4	SUELO SEL 1	5.156	103.11	9798.6
	BALASTO	4.582	91.66	11040.0				
2.920.000	CAPA DE FORMA	7.232	144.63	19121.0	FIRME	15.665	313.29	40088.9
	SUBBALASTO	3.850	77.01	9836.3	REVES CUNETAS	0.155	3.09	165.6
	D TIERRA	73.019	1616.79	216122.2	SUELO SEL 1	5.156	103.11	9901.7
	BALASTO	4.584	91.66	11131.6				
2.940.000	CAPA DE FORMA	7.232	144.63	19265.7	FIRME	15.665	313.30	40402.2
	SUBBALASTO	3.850	76.99	9913.3	REVES CUNETAS	0.155	3.10	168.7
	D TIERRA	49.964	1229.83	217352.1	SUELO SEL 1	5.156	103.12	10004.8
	BALASTO	4.584	91.67	11223.3				
2.960.000	CAPA DE FORMA	7.257	144.89	19410.5	FIRME	15.705	313.70	40715.9
	SUBBALASTO	3.866	77.15	9990.4	REVES CUNETAS	0.077	2.32	171.0
	D TIERRA	28.535	784.99	218137.1	SUELO SEL 1	5.170	103.26	10108.1
	BALASTO	4.582	91.66	11315.0				
2.980.000	CAPA DE FORMA	7.935	151.92	19562.5	FIRME	16.416	321.21	41037.1
	SUBBALASTO	3.899	77.65	10068.1	REVES CUNETAS	0.077	1.55	172.5
	D TIERRA	8.658	371.93	218509.0	SUELO SEL 1	5.907	110.77	10218.9
	TERRAPLEN	0.053	0.53	51110.9	BALASTO	4.582	91.64	11406.6
3.000.000	CAPA DE FORMA	8.639	165.74	19728.2	FIRME	17.168	335.84	41372.9
	SUBBALASTO	3.947	78.45	10146.5	REVES CUNETAS	0.000	0.77	173.3
	D TIERRA	0.198	88.56	218597.5	SUELO SEL 1	6.616	125.23	10344.1
	TERRAPLEN	13.408	134.61	51245.5	BALASTO	4.582	91.64	11498.2
3.020.000	CAPA DE FORMA	8.639	172.78	19901.0	FIRME	17.168	343.35	41716.3
	SUBBALASTO	3.945	78.91	10225.5	D TIERRA	0.000	1.98	218599.5
	SUELO SEL 1	6.659	132.75	10476.9	TERRAPLEN	53.888	672.96	51918.4
	BALASTO	4.584	91.66	11589.9				
3.040.000	CAPA DE FORMA	8.640	172.79	20073.8	FIRME	17.167	343.35	42059.6
	SUBBALASTO	3.945	78.90	10304.4	SUELO SEL 1	6.659	133.19	10610.0

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	TERRAPLEN	121.909	1757.97	53676.4	BALASTO	4.582	91.66	11681.6
3.060.000	CAPA DE FORMA	8.640	172.79	20246.6	FIRME	17.167	343.34	42403.0
	SUBBALASTO	3.945	78.90	10383.3	SUELO SEL 1	6.659	133.19	10743.2
	TERRAPLEN	225.678	3475.86	57152.3	BALASTO	4.582	91.64	11773.2
3.080.000	CAPA DE FORMA	8.640	172.79	20419.4	FIRME	17.167	343.34	42746.3
	SUBBALASTO	3.945	78.90	10462.2	SUELO SEL 1	6.659	133.19	10876.4
	TERRAPLEN	341.142	5668.20	62820.4	BALASTO	4.582	91.65	11864.9
3.100.000	CAPA DE FORMA	8.907	175.46	20594.8	FIRME	17.457	346.24	43092.6
	SUBBALASTO	3.968	79.13	10541.3	SUELO SEL 1	6.840	134.99	11011.4
	TERRAPLEN	402.409	7435.51	70256.0	BALASTO	4.582	91.65	11956.5
3.120.000	CAPA DE FORMA	8.763	176.70	20771.5	FIRME	17.314	347.70	43440.3
	SUBBALASTO	3.968	79.36	10620.6	SUELO SEL 1	6.726	135.66	11147.1
	TERRAPLEN	378.616	7810.25	78066.2	BALASTO	4.583	91.65	12048.2
3.140.000	CAPA DE FORMA	8.640	174.03	20945.5	FIRME	17.167	344.81	43785.1
	SUBBALASTO	3.945	79.13	10699.8	SUELO SEL 1	6.659	133.86	11280.9
	TERRAPLEN	277.864	6564.81	84631.0	BALASTO	4.583	91.65	12139.8
3.160.000	CAPA DE FORMA	8.640	172.79	21118.3	FIRME	17.107	342.75	44127.8
	SUBBALASTO	3.945	78.90	10778.7	SUELO SEL 1	6.659	133.19	11414.1
	TERRAPLEN	172.539	4504.03	89135.0	BALASTO	4.522	91.05	12230.9
3.180.000	CAPA DE FORMA	8.640	172.80	21291.1	FIRME	16.659	337.66	44465.5
	SUBBALASTO	3.945	78.90	10857.6	SUELO SEL 1	6.659	133.19	11547.3
	TERRAPLEN	132.272	3048.11	92183.2	BALASTO	4.074	85.96	12316.8
3.200.000	CAPA DE FORMA	8.638	172.79	21463.9	FIRME	16.450	331.09	44796.6
	SUBBALASTO	3.947	78.91	10936.5	SUELO SEL 1	6.659	133.19	11680.5
	TERRAPLEN	144.791	2770.64	94953.8	BALASTO	3.866	79.39	12396.2
3.220.000	CAPA DE FORMA	8.638	172.77	21636.7	FIRME	16.450	329.01	45125.6
	SUBBALASTO	3.947	78.93	11015.4	SUELO SEL 1	6.659	133.19	11813.7
	TERRAPLEN	156.617	3014.09	97967.9	BALASTO	3.866	77.31	12473.5
3.240.000	CAPA DE FORMA	8.638	172.76	21809.5	FIRME	16.450	329.01	45454.6
	SUBBALASTO	3.947	78.93	11094.4	SUELO SEL 1	6.659	133.19	11946.9
	TERRAPLEN	188.029	3446.46	101414.3	BALASTO	3.866	77.31	12550.8
3.260.000	CAPA DE FORMA	8.640	172.78	21982.2	FIRME	16.450	329.01	45783.6
	SUBBALASTO	3.945	78.91	11173.3	SUELO SEL 1	6.659	133.19	12080.1
	TERRAPLEN	220.609	4086.37	105500.7	BALASTO	3.866	77.31	12628.1
3.280.000	CAPA DE FORMA	8.640	172.80	22155.0	FIRME	16.450	329.01	46112.6
	SUBBALASTO	3.945	78.90	11252.2	SUELO SEL 1	6.659	133.19	12213.2
	TERRAPLEN	251.685	4722.94	110223.6	BALASTO	3.866	77.31	12705.5





PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3.300.000	CAPA DE FORMA	8.640	172.80	22327.8	FIRME	16.450	329.01	46441.6
	SUBBALASTO	3.945	78.90	11331.1	SUELO SEL 1	6.659	133.18	12346.4
	TERRAPLEN	291.638	5433.23	115656.9	BALASTO	3.866	77.31	12782.8
3.320.000	CAPA DE FORMA	8.640	172.80	22500.6	FIRME	16.450	329.00	46770.6
	SUBBALASTO	3.945	78.90	11410.0	SUELO SEL 1	6.659	133.19	12479.6
	TERRAPLEN	350.975	6426.13	122083.0	BALASTO	3.866	77.31	12860.1
3.340.000	CAPA DE FORMA	8.893	175.33	22676.0	FIRME	16.726	331.76	47102.4
	SUBBALASTO	3.967	79.12	11489.1	SUELO SEL 1	6.822	134.82	12614.4
	TERRAPLEN	434.595	7855.70	129938.7	BALASTO	3.866	77.32	12937.4
3.360.000	CAPA DE FORMA	8.928	178.21	22854.2	FIRME	16.762	334.88	47437.3
	SUBBALASTO	3.967	79.35	11568.4	SUELO SEL 1	6.952	137.74	12752.2
	TERRAPLEN	554.714	9893.09	139831.8	BALASTO	3.866	77.32	13014.7
3.380.000	CAPA DE FORMA	8.928	178.56	23032.7	FIRME	16.762	335.23	47772.5
	SUBBALASTO	3.967	79.35	11647.8	SUELO SEL 1	6.952	139.04	12891.2
	TERRAPLEN	695.448	12501.61	152333.4	BALASTO	3.866	77.32	13092.0
3.400.000	CAPA DE FORMA	9.072	180.00	23212.7	FIRME	16.928	336.90	48109.4
	SUBBALASTO	3.990	79.57	11727.4	SUELO SEL 1	7.029	139.81	13031.0
	TERRAPLEN	763.094	14585.42	166918.8	BALASTO	3.867	77.33	13169.4
3.420.000	CAPA DE FORMA	8.980	180.52	23393.3	FIRME	16.830	337.58	48447.0
	SUBBALASTO	3.983	79.73	11807.1	SUELO SEL 1	6.980	140.10	13171.1
	TERRAPLEN	762.362	15254.56	182173.4	BALASTO	3.867	77.34	13246.7
3.440.000	CAPA DE FORMA	8.927	179.08	23572.3	FIRME	16.762	335.92	48782.9
	SUBBALASTO	3.967	79.50	11886.6	SUELO SEL 1	6.952	139.32	13310.4
	TERRAPLEN	667.056	14294.18	196467.6	BALASTO	3.867	77.34	13324.1
3.460.000	CAPA DE FORMA	8.927	178.55	23750.9	FIRME	16.762	335.24	49118.1
	SUBBALASTO	3.967	79.35	11965.9	SUELO SEL 1	6.952	139.03	13449.5
	TERRAPLEN	502.175	11692.31	208159.9	BALASTO	3.867	77.34	13401.4
3.480.000	CAPA DE FORMA	8.907	178.34	23929.2	FIRME	16.739	335.01	49453.1
	SUBBALASTO	3.968	79.35	12045.3	SUELO SEL 1	6.839	137.91	13587.4
	TERRAPLEN	400.682	9028.57	217188.5	BALASTO	3.865	77.32	13478.7
3.500.000	CAPA DE FORMA	8.640	175.46	24104.7	FIRME	16.450	331.90	49785.0
	SUBBALASTO	3.945	79.13	12124.4	SUELO SEL 1	6.659	134.98	13722.4
	TERRAPLEN	329.858	7305.40	224493.9	BALASTO	3.865	77.31	13556.0
3.520.000	CAPA DE FORMA	8.640	172.80	24277.5	FIRME	16.450	329.00	50114.0
	SUBBALASTO	3.945	78.90	12203.3	SUELO SEL 1	6.659	133.18	13855.5
	TERRAPLEN	252.080	5819.39	230313.2	BALASTO	3.865	77.31	13633.3

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3.540.000	CAPA DE FORMA	8.640	172.80	24450.3	FIRME	16.450	329.00	50443.0
	SUBBALASTO	3.945	78.90	12282.2	SUELO SEL 1	6.659	133.18	13988.7
	TERRAPLEN	164.454	4165.34	234478.6	BALASTO	3.865	77.31	13710.6
3.560.000	CAPA DE FORMA	8.640	172.80	24623.1	FIRME	16.450	329.00	50772.1
	SUBBALASTO	3.945	78.90	12361.1	SUELO SEL 1	6.659	133.18	14121.9
	TERRAPLEN	89.956	2544.10	237022.7	BALASTO	3.865	77.31	13787.9
3.580.000	CAPA DE FORMA	8.640	172.80	24795.9	FIRME	16.451	329.01	51101.1
	SUBBALASTO	3.945	78.90	12440.0	SUELO SEL 1	6.659	133.18	14255.1
	TERRAPLEN	52.343	1422.99	238445.7	BALASTO	3.866	77.31	13865.2
3.600.000	CAPA DE FORMA	8.640	172.81	24968.7	FIRME	16.451	329.01	51430.1
	SUBBALASTO	3.945	78.90	12518.9	D TIERRA	0.210	2.10	218601.6
	SUELO SEL 1	6.587	132.46	14387.6	TERRAPLEN	24.202	765.45	239211.1
	BALASTO	3.866	77.31	13942.6				
3.620.000	CAPA DE FORMA	7.936	165.76	25134.4	FIRME	15.699	321.50	51751.6
	SUBBALASTO	3.897	78.42	12597.3	REVES CUNETETA	0.077	0.77	174.1
	D TIERRA	9.193	94.03	218695.7	SUELO SEL 1	5.906	124.93	14512.5
	TERRAPLEN	0.752	249.54	239460.7	BALASTO	3.866	77.32	14019.9
3.640.000	CAPA DE FORMA	7.232	151.68	25286.1	FIRME	14.948	306.47	52058.0
	SUBBALASTO	3.850	77.47	12674.8	REVES CUNETETA	0.155	2.32	176.4
	D TIERRA	41.200	503.93	219199.6	SUELO SEL 1	5.155	110.61	14623.1
	TERRAPLEN	0.000	7.52	239468.2	BALASTO	3.866	77.32	14097.2
3.660.000	CAPA DE FORMA	7.232	144.64	25430.8	FIRME	14.948	298.95	52357.0
	SUBBALASTO	3.850	76.99	12751.8	REVES CUNETETA	0.155	3.10	179.5
	D TIERRA	71.992	1131.91	220331.5	SUELO SEL 1	5.155	103.10	14726.2
	BALASTO	3.866	77.32	14174.5				
3.680.000	CAPA DE FORMA	7.232	144.64	25575.4	FIRME	14.948	298.96	52656.0
	SUBBALASTO	3.850	76.99	12828.8	REVES CUNETETA	0.155	3.10	182.6
	D TIERRA	94.030	1660.21	221991.7	SUELO SEL 1	5.155	103.09	14829.3
	BALASTO	3.867	77.33	14251.8				
3.700.000	CAPA DE FORMA	7.231	144.63	25720.0	FIRME	14.947	298.95	52954.9
	SUBBALASTO	3.851	77.01	12905.8	REVES CUNETETA	0.155	3.09	185.7
	D TIERRA	116.402	2104.32	224096.0	SUELO SEL 1	5.156	103.11	14932.4
	BALASTO	3.866	77.32	14329.2				
3.720.000	CAPA DE FORMA	7.231	144.62	25864.7	FIRME	14.948	298.95	53253.9
	SUBBALASTO	3.851	77.02	12982.8	REVES CUNETETA	0.155	3.09	188.8



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	D TIERRA	110.958	2273.60	226369.6	SUELO SEL 1	5.155	103.12	15035.5
	BALASTO	3.866	77.31	14406.5				
3.740.000	CAPA DE FORMA	7.231	144.63	26009.3	FIRME	15.035	299.83	53553.7
	SUBBALASTO	3.851	77.02	13059.8	REVES CUNETETA	0.155	3.09	191.9
	D TIERRA	68.405	1793.63	228163.3	SUELO SEL 1	5.156	103.11	15138.6
	BALASTO	3.953	78.19	14484.7				
3.760.000	CAPA DE FORMA	7.339	145.71	26155.0	FIRME	15.617	306.52	53860.2
	SUBBALASTO	3.884	77.34	13137.2	REVES CUNETETA	0.077	2.32	194.2
	D TIERRA	23.769	921.75	229085.0	SUELO SEL 1	5.216	103.71	15242.3
	BALASTO	4.394	83.47	14568.1				
3.780.000	CAPA DE FORMA	7.105	0.00	26155.0	FIRME	15.499	0.00	53860.2
	SUBBALASTO	3.812	0.00	13137.2	BALASTO	4.583	0.00	14568.1
3.800.000	CAPA DE FORMA	7.105	142.10	26297.1	FIRME	15.499	309.98	54170.2
	SUBBALASTO	3.812	76.23	13213.4	BALASTO	4.583	91.66	14659.8
3.820.000	CAPA DE FORMA	7.105	142.09	26439.2	FIRME	15.499	309.98	54480.2
	SUBBALASTO	3.811	76.22	13289.6	BALASTO	4.584	91.66	14751.5
3.840.000	CAPA DE FORMA	7.105	142.10	26581.3	FIRME	15.498	309.98	54790.2
	SUBBALASTO	3.811	76.22	13365.9	BALASTO	4.582	91.66	14843.1
3.860.000	CAPA DE FORMA	7.105	142.11	26723.4	FIRME	15.499	309.98	55100.1
	SUBBALASTO	3.811	76.22	13442.1	BALASTO	4.583	91.65	14934.8
3.880.000	CAPA DE FORMA	7.105	142.10	26865.5	FIRME	15.499	309.98	55410.1
	SUBBALASTO	3.811	76.22	13518.3	BALASTO	4.583	91.66	15026.4
3.900.000	CAPA DE FORMA	7.105	142.10	27007.6	FIRME	15.499	309.97	55720.1
	SUBBALASTO	3.811	76.22	13594.5	BALASTO	4.582	91.65	15118.1
3.920.000	CAPA DE FORMA	7.105	142.10	27149.7	FIRME	15.498	309.97	56030.0
	SUBBALASTO	3.811	76.22	13670.7	BALASTO	4.583	91.65	15209.7
3.940.000	CAPA DE FORMA	7.105	142.10	27291.8	FIRME	15.499	309.97	56340.0
	SUBBALASTO	3.811	76.22	13747.0	BALASTO	4.583	91.65	15301.4
3.960.000	CAPA DE FORMA	7.105	142.10	27433.9	FIRME	15.499	309.98	56650.0
	SUBBALASTO	3.811	76.22	13823.2	BALASTO	4.583	91.65	15393.0
3.980.000	CAPA DE FORMA	7.105	142.10	27576.0	FIRME	15.499	309.98	56960.0
	SUBBALASTO	3.811	76.22	13899.4	BALASTO	4.583	91.66	15484.7
4.000.000	CAPA DE FORMA	7.105	142.09	27718.1	FIRME	15.499	309.98	57270.0
	SUBBALASTO	3.811	76.22	13975.6	BALASTO	4.583	91.67	15576.4

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4.020.000	CAPA DE FORMA	7.105	142.09	27860.2	FIRME	15.499	309.98	57579.9
	SUBBALASTO	3.811	76.22	14051.9	BALASTO	4.583	91.67	15668.0
4.040.000	CAPA DE FORMA	7.105	142.10	28002.3	FIRME	15.499	309.98	57889.9
	SUBBALASTO	3.811	76.22	14128.1	BALASTO	4.583	91.67	15759.7
4.060.000	CAPA DE FORMA	7.105	142.10	28144.4	FIRME	15.499	309.98	58199.9
	SUBBALASTO	3.811	76.22	14204.3	BALASTO	4.582	91.66	15851.4
4.080.000	CAPA DE FORMA	7.105	142.10	28286.5	FIRME	15.499	309.97	58509.9
	SUBBALASTO	3.811	76.22	14280.5	BALASTO	4.583	91.65	15943.0
4.100.000	CAPA DE FORMA	7.105	142.09	28428.6	FIRME	15.499	309.98	58819.9
	SUBBALASTO	3.811	76.23	14356.7	BALASTO	4.583	91.66	16034.7
4.120.000	CAPA DE FORMA	8.640	0.00	28428.6	FIRME	17.167	0.00	58819.9
	SUBBALASTO	3.945	0.00	14356.7	D TIERRA	0.372	0.00	229085.0
	SUELO SEL 1	6.561	0.00	15242.3	TERRAPLEN	16.073	0.00	239468.2
	BALASTO	4.582	0.00	16034.7				
4.140.000	CAPA DE FORMA	7.232	158.72	28587.3	FIRME	15.664	328.30	59148.2
	SUBBALASTO	3.850	77.95	14434.7	REVES CUNETETA	0.155	1.55	195.7
	D TIERRA	38.836	392.08	229477.1	SUELO SEL 1	5.156	117.17	15359.5
	TERRAPLEN	0.000	160.73	239628.9	BALASTO	4.582	91.64	16126.3
4.160.000	CAPA DE FORMA	7.232	144.64	28731.9	FIRME	15.664	313.28	59461.4
	SUBBALASTO	3.850	76.99	14511.7	REVES CUNETETA	0.155	3.10	198.8
	D TIERRA	66.744	1055.80	230532.9	SUELO SEL 1	5.156	103.12	15462.6
	BALASTO	4.582	91.65	16218.0				
4.180.000	CAPA DE FORMA	7.232	144.63	28876.5	FIRME	15.664	313.28	59774.7
	SUBBALASTO	3.850	76.99	14588.7	REVES CUNETETA	0.155	3.09	201.9
	D TIERRA	64.146	1308.90	231841.8	SUELO SEL 1	5.156	103.13	15565.8
	BALASTO	4.582	91.65	16309.6				
4.200.000	CAPA DE FORMA	7.231	144.63	29021.2	FIRME	15.664	313.28	60088.0
	SUBBALASTO	3.850	76.99	14665.7	REVES CUNETETA	0.155	3.09	205.0
	D TIERRA	60.370	1245.17	233087.0	SUELO SEL 1	5.156	103.12	15668.9
	BALASTO	4.583	91.66	16401.3				
4.220.000	CAPA DE FORMA	7.232	144.63	29165.8	FIRME	15.664	313.28	60401.3
	SUBBALASTO	3.850	76.99	14742.7	REVES CUNETETA	0.155	3.09	208.1
	D TIERRA	59.782	1201.52	234288.5	SUELO SEL 1	5.156	103.12	15772.0
	BALASTO	4.583	91.66	16492.9				





PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4.240.000	CAPA DE FORMA	7.232	144.64	29310.4	FIRME	15.664	313.29	60714.6
	SUBBALASTO	3.850	77.00	14819.7	REVES CUNETAS	0.155	3.10	211.2
	D TIERRA	51.143	1109.25	235397.7	SUELO SEL 1	5.156	103.13	15875.1
	BALASTO	4.583	91.65	16584.6				
4.260.000	CAPA DE FORMA	7.232	144.63	29455.1	FIRME	15.665	313.29	61027.9
	SUBBALASTO	3.850	77.00	14896.7	REVES CUNETAS	0.155	3.10	214.3
	D TIERRA	38.112	892.54	236290.3	SUELO SEL 1	5.156	103.13	15978.3
	BALASTO	4.583	91.65	16676.2				
4.280.000	CAPA DE FORMA	7.338	145.70	29600.8	FIRME	15.804	314.68	61342.5
	SUBBALASTO	3.884	77.34	14974.0	REVES CUNETAS	0.077	2.32	216.6
	D TIERRA	20.076	581.88	236872.2	SUELO SEL 1	5.214	103.70	16082.0
	BALASTO	4.582	91.65	16767.9				
4.300.000	CAPA DE FORMA	8.639	159.77	29760.5	FIRME	17.168	329.71	61672.2
	SUBBALASTO	3.945	78.29	15052.3	REVES CUNETAS	0.000	0.77	217.4
	D TIERRA	0.298	203.74	237075.9	SUELO SEL 1	6.610	118.23	16200.2
	TERRAPLEN	6.515	65.15	239694.1	BALASTO	4.583	91.66	16859.5
4.320.000	CAPA DE FORMA	7.105	0.00	29760.5	FIRME	15.499	0.00	61672.2
	SUBBALASTO	3.811	0.00	15052.3	BALASTO	4.583	0.00	16859.5
4.340.000	CAPA DE FORMA	7.105	142.10	29902.6	FIRME	15.499	309.98	61982.2
	SUBBALASTO	3.811	76.22	15128.5	BALASTO	4.583	91.66	16951.2
4.360.000	CAPA DE FORMA	7.106	142.11	30044.8	FIRME	15.499	309.98	62292.2
	SUBBALASTO	3.811	76.22	15204.7	BALASTO	4.582	91.65	17042.8
4.380.000	CAPA DE FORMA	7.105	142.11	30186.9	FIRME	15.499	309.98	62602.2
	SUBBALASTO	3.811	76.22	15280.9	BALASTO	4.583	91.65	17134.5
4.400.000	CAPA DE FORMA	7.105	142.11	30329.0	FIRME	15.499	309.98	62912.2
	SUBBALASTO	3.811	76.22	15357.2	BALASTO	4.583	91.66	17226.1
4.420.000	CAPA DE FORMA	7.105	142.11	30471.1	FIRME	15.499	309.98	63222.1
	SUBBALASTO	3.811	76.22	15433.4	BALASTO	4.583	91.65	17317.8
4.440.000	CAPA DE FORMA	7.105	142.11	30613.2	FIRME	15.499	309.98	63532.1
	SUBBALASTO	3.811	76.22	15509.6	BALASTO	4.582	91.65	17409.4
4.460.000	CAPA DE FORMA	7.105	142.10	30755.3	FIRME	15.499	309.97	63842.1
	SUBBALASTO	3.812	76.23	15585.8	BALASTO	4.583	91.65	17501.1
4.480.000	CAPA DE FORMA	7.105	142.10	30897.4	FIRME	15.499	309.98	64152.1
	SUBBALASTO	3.811	76.22	15662.0	BALASTO	4.583	91.66	17592.8

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4.500.000	CAPA DE FORMA	7.105	142.10	31039.5	FIRME	15.499	309.98	64462.1
	SUBBALASTO	3.811	76.22	15738.3	BALASTO	4.583	91.66	17684.4
4.520.000	CAPA DE FORMA	7.105	142.10	31181.6	FIRME	15.500	309.98	64772.0
	SUBBALASTO	3.811	76.22	15814.5	BALASTO	4.583	91.66	17776.1
4.540.000	CAPA DE FORMA	7.105	142.11	31323.7	FIRME	15.500	309.99	65082.0
	SUBBALASTO	3.811	76.22	15890.7	BALASTO	4.584	91.67	17867.7
4.560.000	CAPA DE FORMA	7.105	142.10	31465.8	FIRME	15.499	309.99	65392.0
	SUBBALASTO	3.812	76.22	15966.9	BALASTO	4.583	91.66	17959.4
4.580.000	CAPA DE FORMA	7.105	142.10	31607.9	FIRME	15.499	309.98	65702.0
	SUBBALASTO	3.811	76.23	16043.2	BALASTO	4.582	91.65	18051.1
4.600.000	CAPA DE FORMA	7.105	142.10	31750.0	FIRME	15.499	309.98	66012.0
	SUBBALASTO	3.812	76.23	16119.4	BALASTO	4.583	91.65	18142.7
4.620.000	CAPA DE FORMA	7.105	142.09	31892.1	FIRME	15.499	309.98	66322.0
	SUBBALASTO	3.812	76.23	16195.6	BALASTO	4.583	91.66	18234.4
4.640.000	CAPA DE FORMA	7.105	142.10	32034.2	FIRME	15.498	309.98	66631.9
	SUBBALASTO	3.811	76.23	16271.8	BALASTO	4.582	91.65	18326.0
4.660.000	CAPA DE FORMA	8.639	0.00	32034.2	FIRME	16.812	0.00	66631.9
	SUBBALASTO	3.945	0.00	16271.8	SUELO SEL 1	6.660	0.00	16200.2
	TERRAPLEN	66.729	0.00	239694.1	BALASTO	4.228	0.00	18326.0
4.680.000	CAPA DE FORMA	8.640	172.79	32207.0	FIRME	16.450	332.62	66964.6
	SUBBALASTO	3.945	78.91	16350.7	SUELO SEL 1	6.659	133.19	16333.4
	TERRAPLEN	46.513	1132.42	240826.5	BALASTO	3.865	80.93	18406.9
4.700.000	CAPA DE FORMA	8.640	172.80	32379.8	FIRME	16.451	329.02	67293.6
	SUBBALASTO	3.945	78.90	16429.6	SUELO SEL 1	6.659	133.18	16466.6
	TERRAPLEN	44.758	912.71	241739.2	BALASTO	3.866	77.32	18484.3
4.720.000	CAPA DE FORMA	8.639	172.79	32552.6	FIRME	16.451	329.02	67622.6
	SUBBALASTO	3.945	78.91	16508.6	SUELO SEL 1	6.659	133.19	16599.7
	TERRAPLEN	48.758	935.16	242674.4	BALASTO	3.867	77.33	18561.6
4.740.000	CAPA DE FORMA	8.639	172.78	32725.3	FIRME	16.451	329.02	67951.6
	SUBBALASTO	3.945	78.91	16587.5	SUELO SEL 1	6.660	133.19	16732.9
	TERRAPLEN	52.575	1013.33	243687.7	BALASTO	3.867	77.34	18638.9
4.760.000	CAPA DE FORMA	8.639	172.78	32898.1	FIRME	16.451	329.02	68280.6
	SUBBALASTO	3.945	78.91	16666.4	SUELO SEL 1	6.660	133.19	16866.1
	TERRAPLEN	65.110	1176.84	244864.5	BALASTO	3.867	77.34	18716.3
4.780.000	CAPA DE FORMA	8.638	172.77	33070.9	FIRME	16.450	329.01	68609.7



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	SUBBALASTO	3.945	78.91	16745.3	SUELO SEL 1	6.659	133.19	16999.3
	TERRAPLEN	95.134	1602.44	246467.0	BALASTO	3.867	77.34	18793.6
4.800.000	CAPA DE FORMA	8.638	172.77	33243.7	FIRME	16.450	329.01	68938.7
	SUBBALASTO	3.947	78.92	16824.2	SUELO SEL 1	6.659	133.19	17132.5
	TERRAPLEN	123.935	2190.69	248657.7	BALASTO	3.866	77.32	18870.9
4.820.000	CAPA DE FORMA	8.638	172.77	33416.4	FIRME	16.450	329.01	69267.7
	SUBBALASTO	3.947	78.93	16903.1	SUELO SEL 1	6.659	133.19	17265.7
	TERRAPLEN	160.040	2839.75	251497.4	BALASTO	3.866	77.31	18948.2
4.840.000	CAPA DE FORMA	8.638	172.77	33589.2	FIRME	16.450	329.01	69596.7
	SUBBALASTO	3.947	78.93	16982.0	SUELO SEL 1	6.659	133.19	17398.9
	TERRAPLEN	206.032	3660.72	255158.1	BALASTO	3.866	77.31	19025.5
4.860.000	CAPA DE FORMA	8.640	172.78	33762.0	FIRME	16.450	329.01	69925.7
	SUBBALASTO	3.945	78.91	17061.0	SUELO SEL 1	6.659	133.19	17532.1
	TERRAPLEN	246.127	4521.59	259679.7	BALASTO	3.866	77.31	19102.9
4.880.000	CAPA DE FORMA	8.640	172.80	33934.8	FIRME	16.450	329.01	70254.7
	SUBBALASTO	3.945	78.90	17139.9	SUELO SEL 1	6.659	133.19	17665.2
	TERRAPLEN	229.133	4752.60	264432.3	BALASTO	3.866	77.31	19180.2
4.900.000	CAPA DE FORMA	8.640	172.80	34107.6	FIRME	16.450	329.01	70583.7
	SUBBALASTO	3.945	78.90	17218.8	SUELO SEL 1	6.659	133.19	17798.4
	TERRAPLEN	197.382	4265.16	268697.5	BALASTO	3.866	77.31	19257.5
4.920.000	CAPA DE FORMA	8.640	172.80	34280.4	FIRME	16.450	329.01	70912.7
	SUBBALASTO	3.945	78.90	17297.7	SUELO SEL 1	6.659	133.18	17931.6
	TERRAPLEN	157.364	3547.47	272245.0	BALASTO	3.866	77.31	19334.8
4.940.000	CAPA DE FORMA	8.640	172.80	34453.2	FIRME	16.451	329.01	71241.7
	SUBBALASTO	3.945	78.90	17376.5	SUELO SEL 1	6.659	133.19	18064.8
	TERRAPLEN	103.171	2605.36	274850.3	BALASTO	3.866	77.32	19412.1
4.960.000	CAPA DE FORMA	8.639	172.79	34626.0	FIRME	16.451	329.02	71570.7
	SUBBALASTO	3.945	78.90	17455.4	SUELO SEL 1	6.659	133.19	18198.0
	TERRAPLEN	58.028	1611.99	276462.3	BALASTO	3.867	77.33	19489.4
4.980.000	CAPA DE FORMA	8.639	172.78	34798.8	FIRME	16.790	332.41	71903.2
	SUBBALASTO	3.947	78.92	17534.4	SUELO SEL 1	6.659	133.18	18331.2
	TERRAPLEN	23.385	814.12	277276.4	BALASTO	4.204	80.71	19570.2
5.000.000	CAPA DE FORMA	8.509	171.47	34970.2	FIRME	17.036	338.26	72241.4
	SUBBALASTO	3.945	78.92	17613.3	D TIERRA	2.811	28.11	237104.0
	SUELO SEL 1	6.269	129.28	18460.5	TERRAPLEN	3.319	267.04	277543.5
	BALASTO	4.582	87.86	19658.0				
5.020.000	CAPA DE FORMA	8.123	166.32	35136.6	FIRME	16.649	336.85	72578.3

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	SUBBALASTO	3.944	78.89	17692.2	D TIERRA	9.470	122.81	237226.8
	SUELO SEL 1	5.837	121.07	18581.5	TERRAPLEN	0.000	33.19	277576.7
	BALASTO	4.582	91.64	19749.7				
5.040.000	CAPA DE FORMA	7.794	159.17	35295.7	FIRME	16.275	329.24	72907.5
	SUBBALASTO	3.898	78.41	17770.6	REVES CUNETETA	0.077	0.77	218.2
	D TIERRA	14.891	243.61	237470.4	SUELO SEL 1	5.507	113.44	18695.0
	BALASTO	4.583	91.66	19841.3				
5.060.000	CAPA DE FORMA	7.904	156.98	35452.7	FIRME	16.384	326.59	73234.1
	SUBBALASTO	3.898	77.95	17848.5	REVES CUNETETA	0.077	1.55	219.7
	D TIERRA	12.602	274.92	237745.3	SUELO SEL 1	5.650	111.56	18806.5
	BALASTO	4.582	91.65	19933.0				
5.080.000	CAPA DE FORMA	8.045	159.49	35612.2	FIRME	16.560	329.44	73563.5
	SUBBALASTO	3.933	78.31	17926.8	REVES CUNETETA	0.000	0.77	220.5
	D TIERRA	8.935	215.37	237960.7	SUELO SEL 1	5.886	115.36	18921.9
	BALASTO	4.582	91.64	20024.6				
5.100.000	CAPA DE FORMA	8.255	162.99	35775.2	FIRME	16.783	333.43	73896.9
	SUBBALASTO	3.946	78.79	18005.6	D TIERRA	4.693	136.28	238097.0
	SUELO SEL 1	6.083	119.68	19041.6	TERRAPLEN	0.982	9.82	277586.5
	BALASTO	4.582	91.64	20116.3				
5.120.000	CAPA DE FORMA	8.640	168.95	35944.1	FIRME	17.167	339.50	74236.5
	SUBBALASTO	3.945	78.91	18084.5	D TIERRA	0.304	49.96	238147.0
	SUELO SEL 1	6.566	126.49	19168.1	TERRAPLEN	18.866	198.48	277785.0
	BALASTO	4.583	91.65	20207.9				
5.140.000	CAPA DE FORMA	8.639	172.79	36116.9	FIRME	17.168	343.35	74579.8
	SUBBALASTO	3.946	78.91	18163.5	D TIERRA	0.000	3.04	238150.0
	SUELO SEL 1	6.659	132.25	19300.3	TERRAPLEN	38.464	573.30	278358.3
	BALASTO	4.582	91.65	20299.6				
5.160.000	CAPA DE FORMA	8.640	172.79	36289.7	FIRME	17.168	343.36	74923.2
	SUBBALASTO	3.945	78.91	18242.4	D TIERRA	0.594	5.94	238155.9
	SUELO SEL 1	6.524	131.83	19432.1	TERRAPLEN	15.460	539.23	278897.5
	BALASTO	4.584	91.66	20391.2				
5.180.000	CAPA DE FORMA	8.294	169.33	36459.0	FIRME	16.821	339.89	75263.1
	SUBBALASTO	3.945	78.90	18321.3	D TIERRA	3.673	42.67	238198.6
	SUELO SEL 1	6.106	126.30	19558.4	TERRAPLEN	1.987	174.47	279072.0
	BALASTO	4.583	91.66	20482.9				
5.200.000	CAPA DE FORMA	8.402	166.95	36626.0	FIRME	16.930	337.51	75600.6
	SUBBALASTO	3.946	78.91	18400.2	D TIERRA	4.355	80.28	238278.9



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	SUELO SEL 1	6.135	122.41	19680.9	TERRAPLEN	0.007	19.94	279091.9
	BALASTO	4.582	91.65	20574.5				
5.240.000	CAPA DE FORMA	8.640	340.83	36966.8	FIRME	17.168	681.97	76282.5
	SUBBALASTO	3.945	157.82	18558.0	D TIERRA	0.007	87.25	238366.1
	SUELO SEL 1	6.658	255.86	19936.7	TERRAPLEN	14.944	299.01	279390.9
	BALASTO	4.584	183.32	20757.8				
5.260.000	CAPA DE FORMA	8.640	172.80	37139.6	FIRME	17.167	343.35	76625.9
	SUBBALASTO	3.945	78.90	18636.9	D TIERRA	0.000	0.07	238366.2
	SUELO SEL 1	6.659	133.17	20069.9	TERRAPLEN	55.226	701.69	280092.6
	BALASTO	4.582	91.66	20849.5				
5.280.000	CAPA DE FORMA	8.642	172.81	37312.4	FIRME	17.169	343.36	76969.2
	SUBBALASTO	3.945	78.90	18715.8	SUELO SEL 1	6.659	133.19	20203.1
	TERRAPLEN	93.032	1482.58	281575.2	BALASTO	4.582	91.65	20941.2
5.300.000	CAPA DE FORMA	8.640	172.81	37485.3	FIRME	17.168	343.37	77312.6
	SUBBALASTO	3.946	78.91	18794.7	D TIERRA	0.035	0.35	238366.6
	SUELO SEL 1	6.649	133.08	20336.2	TERRAPLEN	40.313	1333.45	282908.6
	BALASTO	4.583	91.65	21032.8				
5.320.000	CAPA DE FORMA	7.868	165.07	37650.3	FIRME	16.346	335.14	77647.8
	SUBBALASTO	3.896	78.41	18873.1	REVES CUNETETA	0.077	0.77	221.3
	D TIERRA	26.236	262.71	238629.3	SUELO SEL 1	5.587	122.36	20458.5
	TERRAPLEN	0.000	403.13	283311.8	BALASTO	4.582	91.65	21124.5
5.340.000	CAPA DE FORMA	7.232	151.00	37801.3	FIRME	15.665	320.10	77967.9
	SUBBALASTO	3.850	77.45	18950.6	REVES CUNETETA	0.155	2.32	223.6
	D TIERRA	78.881	1051.16	239680.4	SUELO SEL 1	5.156	107.43	20566.0
	BALASTO	4.582	91.65	21216.1				
5.360.000	CAPA DE FORMA	7.232	144.64	37946.0	FIRME	15.664	313.28	78281.1
	SUBBALASTO	3.850	76.99	19027.6	REVES CUNETETA	0.155	3.09	226.7
	D TIERRA	127.454	2063.35	241743.8	SUELO SEL 1	5.157	103.14	20669.1
	BALASTO	4.582	91.65	21307.8				
5.380.000	CAPA DE FORMA	7.233	144.65	38090.6	FIRME	15.664	313.28	78594.4
	SUBBALASTO	3.848	76.98	19104.5	REVES CUNETETA	0.155	3.09	229.8
	D TIERRA	148.058	2755.12	244498.9	SUELO SEL 1	5.156	103.13	20772.2
	BALASTO	4.582	91.65	21399.4				
5.400.000	CAPA DE FORMA	7.232	144.65	38235.3	FIRME	15.664	313.28	78907.7
	SUBBALASTO	3.850	76.98	19181.5	REVES CUNETETA	0.155	3.09	232.9
	D TIERRA	137.364	2854.22	247353.1	SUELO SEL 1	5.156	103.12	20875.3

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	BALASTO	4.582	91.65	21491.0				
5.420.000	CAPA DE FORMA	7.232	144.64	38379.9	FIRME	15.664	313.28	79221.0
	SUBBALASTO	3.850	76.99	19258.5	REVES CUNETETA	0.155	3.09	236.0
	D TIERRA	107.577	2449.41	249802.5	SUELO SEL 1	5.157	103.14	20978.5
	BALASTO	4.582	91.65	21582.7				
5.440.000	CAPA DE FORMA	7.233	144.65	38524.6	FIRME	15.664	313.28	79534.2
	SUBBALASTO	3.848	76.98	19335.5	REVES CUNETETA	0.155	3.09	239.1
	D TIERRA	94.090	2016.67	251819.2	SUELO SEL 1	5.156	103.13	21081.6
	BALASTO	4.582	91.65	21674.3				
5.460.000	CAPA DE FORMA	7.232	144.65	38669.2	FIRME	15.664	313.28	79847.5
	SUBBALASTO	3.850	76.98	19412.5	REVES CUNETETA	0.155	3.09	242.2
	D TIERRA	102.765	1968.55	253787.8	SUELO SEL 1	5.157	103.13	21184.7
	BALASTO	4.582	91.65	21766.0				
5.480.000	CAPA DE FORMA	7.233	144.65	38813.9	FIRME	15.664	313.27	80160.8
	SUBBALASTO	3.848	76.98	19489.4	REVES CUNETETA	0.155	3.09	245.2
	D TIERRA	104.591	2073.56	255861.3	SUELO SEL 1	5.157	103.14	21287.9
	BALASTO	4.582	91.64	21857.6				
5.500.000	CAPA DE FORMA	7.232	144.65	38958.5	FIRME	15.663	313.27	80474.1
	SUBBALASTO	3.850	76.98	19566.4	REVES CUNETETA	0.155	3.09	248.3
	D TIERRA	86.890	1914.82	257776.1	SUELO SEL 1	5.156	103.13	21391.0
	BALASTO	4.582	91.64	21949.3				
5.520.000	CAPA DE FORMA	7.232	144.64	39103.2	FIRME	15.664	313.27	80787.3
	SUBBALASTO	3.850	76.99	19643.4	REVES CUNETETA	0.155	3.09	251.4
	D TIERRA	47.829	1347.19	259123.3	SUELO SEL 1	5.156	103.13	21494.1
	BALASTO	4.583	91.64	22040.9				
5.540.000	CAPA DE FORMA	7.518	147.50	39250.7	FIRME	15.998	316.62	81104.0
	SUBBALASTO	3.897	77.47	19720.9	REVES CUNETETA	0.077	2.32	253.8
	D TIERRA	25.687	735.16	259858.5	SUELO SEL 1	5.313	104.70	21598.8
	BALASTO	4.583	91.65	22132.6				
5.560.000	CAPA DE FORMA	7.739	152.57	39403.2	FIRME	16.218	322.16	81426.1
	SUBBALASTO	3.896	77.93	19798.8	REVES CUNETETA	0.077	1.55	255.3
	D TIERRA	27.045	527.32	260385.8	SUELO SEL 1	5.458	107.71	21706.5
	BALASTO	4.583	91.66	22224.2				
5.580.000	CAPA DE FORMA	7.936	156.75	39560.0	FIRME	16.416	326.34	81752.5





PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	SUBBALASTO	3.897	77.93	19876.7	REVES CUNETETA	0.077	1.55	256.9
	D TIERRA	16.430	434.75	260820.6	SUELO SEL 1	5.908	113.66	21820.2
	TERRAPLEN	0.004	0.04	283311.8	BALASTO	4.583	91.66	22315.9
5.600.000	CAPA DE FORMA	7.936	158.72	39718.7	FIRME	16.416	328.32	82080.8
	SUBBALASTO	3.897	77.95	19954.7	REVES CUNETETA	0.077	1.55	258.4
	D TIERRA	8.323	247.52	261068.1	SUELO SEL 1	5.909	118.17	21938.4
	TERRAPLEN	1.398	14.03	283325.8	BALASTO	4.583	91.65	22407.5
5.620.000	CAPA DE FORMA	8.041	159.77	39878.5	FIRME	16.552	329.68	82410.5
	SUBBALASTO	3.929	78.26	20033.0	REVES CUNETETA	0.000	0.77	259.2
	D TIERRA	4.756	130.79	261198.9	SUELO SEL 1	5.966	118.74	22057.1
	TERRAPLEN	3.018	44.16	283370.0	BALASTO	4.583	91.66	22499.2
5.640.000	CAPA DE FORMA	8.248	162.89	40041.4	FIRME	16.775	333.28	82743.7
	SUBBALASTO	3.945	78.74	20111.7	D TIERRA	3.955	87.10	261286.0
	SUELO SEL 1	6.080	120.46	22177.6	TERRAPLEN	1.967	49.85	283419.9
	BALASTO	4.582	91.65	22590.8				
5.660.000	CAPA DE FORMA	8.454	167.02	40208.4	FIRME	16.979	337.54	83081.3
	SUBBALASTO	3.943	78.88	20190.6	D TIERRA	2.488	64.43	261350.4
	SUELO SEL 1	6.219	122.99	22300.6	TERRAPLEN	4.798	67.66	283487.5
	BALASTO	4.583	91.65	22682.5				
5.680.000	CAPA DE FORMA	8.640	170.93	40379.3	FIRME	17.166	341.46	83422.7
	SUBBALASTO	3.945	78.88	20269.4	D TIERRA	0.000	24.88	261375.3
	SUELO SEL 1	6.661	128.80	22429.4	TERRAPLEN	24.950	297.48	283785.0
	BALASTO	4.582	91.64	22774.1				
5.700.000	CAPA DE FORMA	8.640	172.80	40552.1	FIRME	17.167	343.33	83766.1
	SUBBALASTO	3.945	78.90	20348.3	SUELO SEL 1	6.661	133.22	22562.6
	TERRAPLEN	60.816	857.65	284642.6	BALASTO	4.582	91.64	22865.8
5.720.000	CAPA DE FORMA	8.641	172.81	40724.9	FIRME	17.167	343.34	84109.4
	SUBBALASTO	3.943	78.88	20427.2	SUELO SEL 1	6.660	133.21	22695.8
	TERRAPLEN	61.738	1225.53	285868.2	BALASTO	4.583	91.65	22957.4
5.740.000	CAPA DE FORMA	7.936	165.77	40890.7	FIRME	16.415	335.82	84445.2
	SUBBALASTO	3.897	78.40	20505.6	REVES CUNETETA	0.077	0.77	259.9
	D TIERRA	6.697	66.97	261442.3	SUELO SEL 1	5.909	125.69	22821.5
	TERRAPLEN	3.171	649.09	286517.3	BALASTO	4.582	91.64	23049.1
5.760.000	CAPA DE FORMA	7.355	152.91	41043.6	FIRME	15.824	322.39	84767.6
	SUBBALASTO	3.886	77.84	20583.5	REVES CUNETETA	0.077	1.55	261.5
	D TIERRA	29.050	357.47	261799.7	SUELO SEL 1	5.225	111.33	22932.8

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	TERRAPLEN	0.000	31.71	286549.0	BALASTO	4.582	91.64	23140.7
5.780.000	CAPA DE FORMA	7.232	145.88	41189.5	FIRME	15.664	314.88	85082.5
	SUBBALASTO	3.850	77.36	20660.8	REVES CUNETETA	0.155	2.32	263.8
	D TIERRA	51.539	805.89	262605.6	SUELO SEL 1	5.156	103.81	23036.6
	BALASTO	4.582	91.64	23232.3				
5.800.000	CAPA DE FORMA	7.232	144.65	41334.1	FIRME	15.664	313.28	85395.8
	SUBBALASTO	3.851	77.00	20737.8	REVES CUNETETA	0.155	3.09	266.9
	D TIERRA	76.715	1282.55	263888.2	SUELO SEL 1	5.156	103.12	23139.7
	BALASTO	4.581	91.63	23324.0				
5.820.000	CAPA DE FORMA	7.232	144.64	41478.8	FIRME	15.664	313.28	85709.0
	SUBBALASTO	3.850	77.00	20814.8	REVES CUNETETA	0.155	3.09	270.0
	D TIERRA	95.043	1717.58	265605.7	SUELO SEL 1	5.157	103.13	23242.9
	BALASTO	4.582	91.64	23415.6				
5.840.000	CAPA DE FORMA	7.233	144.65	41623.4	FIRME	15.664	313.28	86022.3
	SUBBALASTO	3.848	76.98	20891.8	REVES CUNETETA	0.155	3.09	273.1
	D TIERRA	130.459	2255.02	267860.8	SUELO SEL 1	5.157	103.13	23346.0
	BALASTO	4.583	91.65	23507.3				
5.860.000	CAPA DE FORMA	7.233	144.66	41768.1	FIRME	15.665	313.29	86335.6
	SUBBALASTO	3.850	76.98	20968.8	REVES CUNETETA	0.155	3.09	276.2
	D TIERRA	169.553	3000.12	270860.9	SUELO SEL 1	5.156	103.13	23449.1
	BALASTO	4.583	91.66	23598.9				
5.880.000	CAPA DE FORMA	7.232	144.65	41912.7	FIRME	15.664	313.29	86648.9
	SUBBALASTO	3.850	76.99	21045.8	REVES CUNETETA	0.155	3.09	279.3
	D TIERRA	216.790	3863.44	274724.3	SUELO SEL 1	5.157	103.13	23552.3
	BALASTO	4.583	91.65	23690.6				
5.900.000	CAPA DE FORMA	7.233	144.65	42057.4	FIRME	15.664	313.28	86962.2
	SUBBALASTO	3.848	76.98	21122.8	REVES CUNETETA	0.155	3.09	282.4
	D TIERRA	280.160	4969.50	279693.8	SUELO SEL 1	5.157	103.14	23655.4
	BALASTO	4.583	91.66	23782.2				
5.920.000	CAPA DE FORMA	7.233	144.66	42202.0	FIRME	15.665	313.29	87275.5
	SUBBALASTO	3.850	76.98	21199.7	REVES CUNETETA	0.155	3.09	285.5
	D TIERRA	348.169	6283.29	285977.1	SUELO SEL 1	5.156	103.13	23758.5
	BALASTO	4.583	91.66	23873.9				
5.980.000	CAPA DE FORMA	7.233	433.95	42636.0	FIRME	15.665	939.89	88215.4



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	SUBBALASTO	3.851	231.01	21430.7	REVES CUNETETA	0.155	9.28	294.7
	D TIERRA	363.645	21354.40	307331.5	SUELO SEL 1	5.156	309.37	24067.9
	BALASTO	4.582	274.93	24148.8				
6.000.000	CAPA DE FORMA	7.231	144.64	42780.6	FIRME	15.664	313.28	88528.7
	SUBBALASTO	3.850	77.00	21507.8	REVES CUNETETA	0.155	3.09	297.8
	D TIERRA	310.738	6743.83	314075.3	SUELO SEL 1	5.157	103.13	24171.0
	BALASTO	4.583	91.64	24240.4				
6.020.000	CAPA DE FORMA	7.232	144.64	42925.3	FIRME	15.664	313.28	88841.9
	SUBBALASTO	3.850	76.99	21584.7	REVES CUNETETA	0.155	3.09	300.9
	D TIERRA	266.278	5770.16	319845.5	SUELO SEL 1	5.156	103.13	24274.2
	BALASTO	4.582	91.64	24332.1				
6.040.000	CAPA DE FORMA	7.232	144.65	43069.9	FIRME	15.664	313.28	89155.2
	SUBBALASTO	3.851	77.00	21661.7	REVES CUNETETA	0.155	3.09	304.0
	D TIERRA	218.891	4851.69	324697.2	SUELO SEL 1	5.156	103.12	24377.3
	BALASTO	4.582	91.63	24423.7				
6.060.000	CAPA DE FORMA	7.232	144.64	43214.6	FIRME	15.664	313.28	89468.5
	SUBBALASTO	3.850	77.00	21738.7	REVES CUNETETA	0.155	3.09	307.1
	D TIERRA	172.861	3917.53	328614.7	SUELO SEL 1	5.156	103.12	24480.4
	BALASTO	4.582	91.63	24515.4				
6.080.000	CAPA DE FORMA	7.233	144.65	43359.2	FIRME	15.664	313.28	89781.8
	SUBBALASTO	3.851	77.00	21815.8	REVES CUNETETA	0.155	3.09	310.2
	D TIERRA	133.781	3066.42	331681.1	SUELO SEL 1	5.156	103.12	24583.5
	BALASTO	4.581	91.63	24607.0				
6.100.000	CAPA DE FORMA	7.231	144.64	43503.8	FIRME	15.664	313.28	90095.1
	SUBBALASTO	3.851	77.01	21892.8	REVES CUNETETA	0.155	3.09	313.3
	D TIERRA	98.242	2320.23	334001.4	SUELO SEL 1	5.156	103.12	24686.6
	BALASTO	4.582	91.63	24698.6				
6.120.000	CAPA DE FORMA	7.231	144.63	43648.5	FIRME	15.664	313.28	90408.3
	SUBBALASTO	3.850	77.00	21969.8	REVES CUNETETA	0.155	3.09	316.4
	D TIERRA	67.007	1652.49	335653.9	SUELO SEL 1	5.157	103.13	24789.8
	BALASTO	4.583	91.65	24790.3				
6.140.000	CAPA DE FORMA	7.233	144.64	43793.1	FIRME	15.665	313.29	90721.6
	SUBBALASTO	3.850	76.99	22046.8	REVES CUNETETA	0.155	3.09	319.5
	D TIERRA	46.896	1139.03	336792.9	SUELO SEL 1	5.156	103.13	24892.9

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	BALASTO	4.583	91.65	24881.9				
6.160.000	CAPA DE FORMA	7.232	144.65	43937.8	FIRME	15.665	313.30	91034.9
	SUBBALASTO	3.851	77.00	22123.8	REVES CUNETETA	0.155	3.09	322.6
	D TIERRA	31.514	784.10	337577.0	SUELO SEL 1	5.157	103.13	24996.0
	BALASTO	4.582	91.65	24973.6				
6.180.000	CAPA DE FORMA	7.232	144.64	44082.4	FIRME	15.665	313.30	91348.2
	SUBBALASTO	3.851	77.01	22200.8	REVES CUNETETA	0.155	3.09	325.7
	D TIERRA	26.360	578.73	338155.7	SUELO SEL 1	5.156	103.13	25099.1
	BALASTO	4.582	91.65	25065.2				
6.200.000	CAPA DE FORMA	8.641	158.72	44241.1	FIRME	17.168	328.33	91676.6
	SUBBALASTO	3.945	77.95	22278.7	REVES CUNETETA	0.000	1.55	327.2
	D TIERRA	0.083	264.43	338420.2	SUELO SEL 1	6.646	118.02	25217.2
	TERRAPLEN	9.704	97.04	286646.0	BALASTO	4.583	91.65	25156.9
6.220.000	CAPA DE FORMA	8.640	172.81	44413.9	FIRME	17.168	343.37	92019.9
	SUBBALASTO	3.946	78.90	22357.6	D TIERRA	0.000	0.83	338421.0
	SUELO SEL 1	6.661	133.06	25350.2	TERRAPLEN	53.378	630.81	287276.8
	BALASTO	4.582	91.65	25248.5				
6.240.000	CAPA DE FORMA	7.106	0.00	44413.9	FIRME	15.498	0.00	92019.9
	SUBBALASTO	3.811	0.00	22357.6	BALASTO	4.582	0.00	25248.5
6.260.000	CAPA DE FORMA	7.107	142.13	44556.1	FIRME	15.500	309.98	92329.9
	SUBBALASTO	3.812	76.22	22433.9	BALASTO	4.582	91.63	25340.1
6.280.000	CAPA DE FORMA	7.105	142.12	44698.2	FIRME	15.499	309.99	92639.9
	SUBBALASTO	3.812	76.23	22510.1	BALASTO	4.582	91.64	25431.8
6.300.000	CAPA DE FORMA	7.106	142.11	44840.3	FIRME	15.499	309.98	92949.9
	SUBBALASTO	3.811	76.22	22586.3	BALASTO	4.582	91.64	25523.4
6.320.000	CAPA DE FORMA	7.107	142.13	44982.4	FIRME	15.499	309.98	93259.9
	SUBBALASTO	3.811	76.22	22662.5	BALASTO	4.582	91.64	25615.1
6.340.000	CAPA DE FORMA	7.105	142.12	45124.5	FIRME	15.499	309.98	93569.8
	SUBBALASTO	3.812	76.22	22738.7	BALASTO	4.582	91.64	25706.7
6.360.000	CAPA DE FORMA	7.106	142.11	45266.6	FIRME	15.499	309.97	93879.8
	SUBBALASTO	3.811	76.22	22815.0	BALASTO	4.582	91.64	25798.3
6.380.000	CAPA DE FORMA	7.106	142.11	45408.8	FIRME	15.498	309.97	94189.8
	SUBBALASTO	3.811	76.22	22891.2	BALASTO	4.582	91.64	25890.0
6.400.000	CAPA DE FORMA	7.106	142.11	45550.9	FIRME	15.498	309.97	94499.7
	SUBBALASTO	3.811	76.22	22967.4	BALASTO	4.582	91.64	25981.6





PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
6.420.000	CAPA DE FORMA	7.107	142.12	45693.0	FIRME	15.499	309.97	94809.7
	SUBBALASTO	3.811	76.22	23043.6	BALASTO	4.581	91.63	26073.3
6.440.000	CAPA DE FORMA	7.107	142.14	45835.1	FIRME	15.500	309.99	95119.7
	SUBBALASTO	3.811	76.22	23119.8	BALASTO	4.582	91.63	26164.9
6.460.000	CAPA DE FORMA	7.105	142.12	45977.3	FIRME	15.500	310.00	95429.7
	SUBBALASTO	3.812	76.22	23196.0	BALASTO	4.583	91.65	26256.5
6.480.000	CAPA DE FORMA	7.106	142.11	46119.4	FIRME	15.499	309.99	95739.7
	SUBBALASTO	3.811	76.22	23272.3	BALASTO	4.582	91.65	26348.2
6.500.000	CAPA DE FORMA	7.107	142.13	46261.5	FIRME	15.500	310.00	96049.7
	SUBBALASTO	3.811	76.22	23348.5	BALASTO	4.582	91.65	26439.8
6.520.000	CAPA DE FORMA	7.106	142.13	46403.6	FIRME	15.401	309.01	96358.7
	SUBBALASTO	3.812	76.22	23424.7	BALASTO	4.483	90.65	26530.5
6.540.000	CAPA DE FORMA	7.106	142.13	46545.8	FIRME	14.954	303.55	96662.2
	SUBBALASTO	3.811	76.22	23500.9	BALASTO	4.038	85.21	26615.7
6.560.000	CAPA DE FORMA	7.107	142.13	46687.9	FIRME	14.782	297.36	96959.6
	SUBBALASTO	3.809	76.20	23577.1	BALASTO	3.866	79.03	26694.7
6.580.000	CAPA DE FORMA	7.106	142.13	46830.0	FIRME	14.782	295.64	97255.2
	SUBBALASTO	3.811	76.20	23653.3	BALASTO	3.866	77.31	26772.0
6.600.000	CAPA DE FORMA	8.641	0.00	46830.0	FIRME	16.450	0.00	97255.2
	SUBBALASTO	3.945	0.00	23653.3	SUELO SEL 1	6.660	0.00	25350.2
	TERRAPLEN	288.581	0.00	287276.8	BALASTO	3.865	0.00	26772.0
6.620.000	CAPA DE FORMA	8.642	172.82	47002.8	FIRME	16.450	329.00	97584.3
	SUBBALASTO	3.943	78.88	23732.2	SUELO SEL 1	6.660	133.19	25483.4
	TERRAPLEN	106.268	3948.49	291225.3	BALASTO	3.866	77.30	26849.3
6.640.000	CAPA DE FORMA	8.640	172.82	47175.7	FIRME	16.451	329.01	97913.3
	SUBBALASTO	3.945	78.88	23811.1	SUELO SEL 1	6.660	133.20	25616.6
	TERRAPLEN	40.202	1464.70	292690.0	BALASTO	3.866	77.31	26926.7
6.660.000	CAPA DE FORMA	8.612	172.53	47348.2	FIRME	16.423	328.74	98242.0
	SUBBALASTO	3.945	78.90	23890.0	D TIERRA	5.869	58.69	338479.7
	SUELO SEL 1	6.259	129.19	25745.8	TERRAPLEN	0.000	402.02	293092.0
	BALASTO	3.866	77.31	27004.0				
6.680.000	CAPA DE FORMA	7.234	158.46	47506.7	FIRME	14.948	313.71	98555.7
	SUBBALASTO	3.848	77.93	23967.9	REVES CUNETAS	0.155	1.55	328.8
	D TIERRA	38.619	444.88	338924.6	SUELO SEL 1	5.156	114.15	25860.0
	BALASTO	3.867	77.32	27081.3				

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
6.700.000	CAPA DE FORMA	7.232	144.65	47651.3	FIRME	14.947	298.95	98854.7
	SUBBALASTO	3.851	76.99	24044.9	REVES CUNETAS	0.155	3.09	331.9
	D TIERRA	84.372	1229.91	340154.5	SUELO SEL 1	5.156	103.12	25963.1
	BALASTO	3.865	77.32	27158.6				
6.720.000	CAPA DE FORMA	7.233	144.65	47796.0	FIRME	14.947	298.94	99153.6
	SUBBALASTO	3.848	76.99	24121.9	REVES CUNETAS	0.155	3.09	335.0
	D TIERRA	125.446	2098.18	342252.6	SUELO SEL 1	5.156	103.12	26066.2
	BALASTO	3.866	77.31	27235.9				
6.740.000	CAPA DE FORMA	7.233	144.67	47940.6	FIRME	14.948	298.95	99452.5
	SUBBALASTO	3.848	76.96	24198.9	REVES CUNETAS	0.155	3.10	338.1
	D TIERRA	150.991	2764.37	345017.0	SUELO SEL 1	5.156	103.12	26169.3
	BALASTO	3.867	77.32	27313.2				
6.760.000	CAPA DE FORMA	7.233	144.66	48085.3	FIRME	14.947	298.95	99751.5
	SUBBALASTO	3.850	76.98	24275.8	REVES CUNETAS	0.155	3.09	341.2
	D TIERRA	170.005	3209.96	348227.0	SUELO SEL 1	5.156	103.12	26272.4
	BALASTO	3.865	77.31	27390.5				
6.780.000	CAPA DE FORMA	7.232	144.64	48229.9	FIRME	14.947	298.94	100050.4
	SUBBALASTO	3.850	76.99	24352.8	REVES CUNETAS	0.155	3.09	344.3
	D TIERRA	194.641	3646.46	351873.4	SUELO SEL 1	5.156	103.12	26375.6
	BALASTO	3.866	77.30	27467.8				
6.800.000	CAPA DE FORMA	7.232	144.64	48374.6	FIRME	14.947	298.94	100349.4
	SUBBALASTO	3.850	76.99	24429.8	REVES CUNETAS	0.155	3.09	347.3
	D TIERRA	216.195	4108.36	355981.8	SUELO SEL 1	5.157	103.13	26478.7
	BALASTO	3.865	77.31	27545.2				
6.820.000	CAPA DE FORMA	6.426	0.00	48374.6	FIRME	13.492	0.00	100349.4
	REVESTIMIENTO	17.818	0.00	10372.9	SUBBALASTO	3.491	0.00	24429.8
	BALASTO	3.575	0.00	27545.2	EXC TUNEL T	255.643	0.00	162523.3
6.840.000	CAPA DE FORMA	6.426	128.52	48503.1	FIRME	13.492	269.85	100619.2
	REVESTIMIENTO	17.818	356.36	10729.3	SUBBALASTO	3.492	69.83	24499.7
	BALASTO	3.574	71.50	27616.6	EXC TUNEL T	255.644	5112.87	167636.2
6.860.000	CAPA DE FORMA	6.426	128.52	48631.6	FIRME	13.492	269.84	100889.1
	REVESTIMIENTO	17.817	356.35	11085.6	SUBBALASTO	3.490	69.82	24569.5
	BALASTO	3.576	71.51	27688.2	EXC TUNEL T	255.643	5112.87	172749.1
6.880.000	CAPA DE FORMA	6.425	128.51	48760.1	FIRME	13.492	269.84	101158.9
	REVESTIMIENTO	17.820	356.37	11442.0	SUBBALASTO	3.491	69.81	24639.3



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	BALASTO	3.575	71.52	27759.7	EXC TUNEL T	255.644	5112.87	177862.0
6.900.000	CAPA DE FORMA	6.425	128.50	48888.6	FIRME	13.492	269.84	101428.7
	REVESTIMIENTO	17.819	356.39	11798.4	SUBBALASTO	3.491	69.83	24709.1
	BALASTO	3.575	71.51	27831.2	EXC TUNEL T	255.645	5112.89	182974.8
6.920.000	CAPA DE FORMA	6.425	128.50	49017.1	FIRME	13.492	269.84	101698.6
	REVESTIMIENTO	17.819	356.37	12154.8	SUBBALASTO	3.491	69.83	24778.9
	BALASTO	3.575	71.51	27902.7	EXC TUNEL T	255.643	5112.89	188087.7
6.940.000	CAPA DE FORMA	6.425	128.50	49145.6	FIRME	13.492	269.84	101968.4
	REVESTIMIENTO	17.818	356.37	12511.1	SUBBALASTO	3.492	69.83	24848.8
	BALASTO	3.575	71.50	27974.2	EXC TUNEL T	255.645	5112.88	193200.6
6.960.000	CAPA DE FORMA	6.426	128.51	49274.1	FIRME	13.492	269.84	102238.3
	REVESTIMIENTO	17.816	356.35	12867.5	SUBBALASTO	3.492	69.84	24918.6
	BALASTO	3.575	71.50	28045.7	EXC TUNEL T	255.643	5112.88	198313.5
6.980.000	CAPA DE FORMA	6.425	128.51	49402.6	FIRME	13.492	269.84	102508.1
	REVESTIMIENTO	17.818	356.35	13223.8	SUBBALASTO	3.491	69.83	24988.4
	BALASTO	3.575	71.50	28117.2	EXC TUNEL T	255.643	5112.87	203426.4
7.000.000	CAPA DE FORMA	6.426	128.51	49531.1	FIRME	13.491	269.83	102777.9
	REVESTIMIENTO	17.820	356.38	13580.2	SUBBALASTO	3.490	69.81	25058.2
	BALASTO	3.575	71.51	28188.7	EXC TUNEL T	255.644	5112.88	208539.2
7.020.000	CAPA DE FORMA	6.425	128.51	49659.7	FIRME	13.491	269.81	103047.7
	REVESTIMIENTO	17.822	356.42	13936.6	SUBBALASTO	3.491	69.81	25128.1
	BALASTO	3.574	71.50	28260.2	EXC TUNEL T	255.646	5112.90	213652.1
7.040.000	CAPA DE FORMA	6.425	128.50	49788.1	FIRME	13.624	271.15	103318.9
	REVESTIMIENTO	17.472	352.94	14289.6	SUBBALASTO	3.491	69.82	25197.9
	BALASTO	3.708	72.83	28333.0	EXC TUNEL T	255.294	5109.40	218761.5
7.060.000	CAPA DE FORMA	6.418	128.43	49916.6	FIRME	13.998	276.21	103595.1
	REVESTIMIENTO	16.474	339.46	14629.0	SUBBALASTO	3.488	69.79	25267.7
	BALASTO	4.091	78.00	28411.0	EXC TUNEL T	254.237	5095.31	223856.8
7.080.000	CAPA DE FORMA	6.415	128.33	50044.9	FIRME	14.097	280.94	103876.0
	REVESTIMIENTO	16.207	326.81	14955.8	SUBBALASTO	3.487	69.75	25337.4
	BALASTO	4.194	82.86	28493.9	EXC TUNEL T	253.944	5081.81	228938.6
7.100.000	CAPA DE FORMA	6.416	128.31	50173.2	FIRME	14.096	281.93	104158.0
	REVESTIMIENTO	16.207	324.14	15280.0	SUBBALASTO	3.486	69.73	25407.2
	BALASTO	4.194	83.89	28577.8	EXC TUNEL T	253.943	5078.86	234017.5
7.120.000	CAPA DE FORMA	6.416	128.32	50301.5	FIRME	14.097	281.93	104439.9
	REVESTIMIENTO	16.207	324.13	15604.1	SUBBALASTO	3.486	69.72	25476.9
	BALASTO	4.195	83.89	28661.6	EXC TUNEL T	253.942	5078.85	239096.4

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
7.140.000	CAPA DE FORMA	6.415	128.31	50429.8	FIRME	14.096	281.92	104721.8
	REVESTIMIENTO	16.209	324.16	15928.3	SUBBALASTO	3.487	69.73	25546.6
	BALASTO	4.194	83.88	28745.5	EXC TUNEL T	253.942	5078.84	244175.2
7.160.000	CAPA DE FORMA	6.416	128.31	50558.2	FIRME	14.096	281.91	105003.7
	REVESTIMIENTO	16.209	324.18	16252.5	SUBBALASTO	3.487	69.74	25616.3
	BALASTO	4.193	83.87	28829.4	EXC TUNEL T	253.943	5078.85	249254.0
7.180.000	CAPA DE FORMA	6.417	128.33	50686.5	FIRME	14.096	281.92	105285.7
	REVESTIMIENTO	16.207	324.17	16576.6	SUBBALASTO	3.485	69.71	25686.1
	BALASTO	4.194	83.87	28913.3	EXC TUNEL T	253.943	5078.86	254332.9
7.200.000	CAPA DE FORMA	6.417	128.34	50814.8	FIRME	14.096	281.92	105567.6
	REVESTIMIENTO	16.207	324.14	16900.8	SUBBALASTO	3.486	69.71	25755.8
	BALASTO	4.194	83.88	28997.2	EXC TUNEL T	253.944	5078.87	259411.8
7.220.000	CAPA DE FORMA	6.415	128.32	50943.1	FIRME	14.096	281.92	105849.5
	REVESTIMIENTO	16.207	324.14	17224.9	SUBBALASTO	3.486	69.72	25825.5
	BALASTO	4.194	83.88	29081.0	EXC TUNEL T	253.943	5078.87	264490.6
7.240.000	CAPA DE FORMA	6.416	128.32	51071.5	FIRME	14.096	281.92	106131.4
	REVESTIMIENTO	16.208	324.15	17549.1	SUBBALASTO	3.486	69.72	25895.2
	BALASTO	4.194	83.88	29164.9	EXC TUNEL T	253.943	5078.86	269569.5
7.260.000	CAPA DE FORMA	6.415	128.31	51199.8	FIRME	14.096	281.92	106413.3
	REVESTIMIENTO	16.207	324.15	17873.2	SUBBALASTO	3.487	69.73	25964.9
	BALASTO	4.194	83.88	29248.8	EXC TUNEL T	253.941	5078.84	274648.3
7.280.000	CAPA DE FORMA	6.416	128.31	51328.1	FIRME	14.097	281.92	106695.3
	REVESTIMIENTO	16.207	324.14	18197.3	SUBBALASTO	3.486	69.73	26034.7
	BALASTO	4.194	83.89	29332.7	EXC TUNEL T	253.943	5078.84	279727.2
7.300.000	CAPA DE FORMA	6.417	128.33	51456.4	FIRME	14.097	281.93	106977.2
	REVESTIMIENTO	16.208	324.15	18521.5	SUBBALASTO	3.485	69.71	26104.4
	BALASTO	4.195	83.89	29416.6	EXC TUNEL T	253.945	5078.88	284806.0
7.320.000	CAPA DE FORMA	6.416	128.34	51584.7	FIRME	14.097	281.93	107259.1
	REVESTIMIENTO	16.205	324.13	18845.6	SUBBALASTO	3.486	69.71	26174.1
	BALASTO	4.194	83.89	29500.5	EXC TUNEL T	253.943	5078.87	289884.9
7.340.000	CAPA DE FORMA	6.415	128.32	51713.1	FIRME	14.096	281.93	107541.1
	REVESTIMIENTO	16.208	324.13	19169.8	SUBBALASTO	3.486	69.72	26243.8
	BALASTO	4.194	83.89	29584.4	EXC TUNEL T	253.944	5078.87	294963.8
7.360.000	CAPA DE FORMA	6.417	128.32	51841.4	FIRME	14.096	281.92	107823.0
	REVESTIMIENTO	16.207	324.15	19493.9	SUBBALASTO	3.485	69.71	26313.5
	BALASTO	4.194	83.89	29668.2	EXC TUNEL T	253.942	5078.86	300042.7



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
7.380.000	CAPA DE FORMA	6.416	128.33	51969.7	FIRME	14.096	281.92	108104.9
	REVESTIMIENTO	16.207	324.15	19818.1	SUBBALASTO	3.486	69.71	26383.2
	BALASTO	4.194	83.88	29752.1	EXC TUNEL T	253.941	5078.84	305121.5
7.400.000	CAPA DE FORMA	6.416	128.32	52098.0	FIRME	14.096	281.92	108386.8
	REVESTIMIENTO	16.208	324.16	20142.2	SUBBALASTO	3.487	69.73	26452.9
	BALASTO	4.193	83.87	29836.0	EXC TUNEL T	253.943	5078.85	310200.3
7.420.000	CAPA DE FORMA	6.416	128.32	52226.4	FIRME	14.096	281.92	108668.7
	REVESTIMIENTO	16.208	324.16	20466.4	SUBBALASTO	3.486	69.73	26522.7
	BALASTO	4.194	83.87	29919.9	EXC TUNEL T	253.943	5078.86	315279.2
7.440.000	CAPA DE FORMA	6.417	128.33	52354.7	FIRME	14.096	281.92	108950.7
	REVESTIMIENTO	16.207	324.15	20790.5	SUBBALASTO	3.486	69.72	26592.4
	BALASTO	4.193	83.87	30003.7	EXC TUNEL T	253.943	5078.86	320358.0
7.460.000	CAPA DE FORMA	6.417	128.34	52483.0	FIRME	14.097	281.93	109232.6
	REVESTIMIENTO	16.208	324.15	21114.7	SUBBALASTO	3.486	69.72	26662.1
	BALASTO	4.194	83.87	30087.6	EXC TUNEL T	253.945	5078.88	325436.9
7.480.000	CAPA DE FORMA	6.416	128.33	52611.4	FIRME	14.096	281.93	109514.5
	REVESTIMIENTO	16.206	324.14	21438.8	SUBBALASTO	3.486	69.72	26731.8
	BALASTO	4.194	83.88	30171.5	EXC TUNEL T	253.943	5078.87	330515.8
7.500.000	CAPA DE FORMA	6.415	128.31	52739.7	FIRME	14.097	281.93	109796.4
	REVESTIMIENTO	16.207	324.13	21763.0	SUBBALASTO	3.487	69.73	26801.6
	BALASTO	4.195	83.89	30255.4	EXC TUNEL T	253.943	5078.86	335594.7
7.520.000	CAPA DE FORMA	6.416	128.31	52868.0	FIRME	14.097	281.94	110078.4
	REVESTIMIENTO	16.205	324.12	22087.1	SUBBALASTO	3.487	69.74	26871.3
	BALASTO	4.194	83.89	30339.3	EXC TUNEL T	253.941	5078.84	340673.5
7.540.000	CAPA DE FORMA	6.416	128.32	52996.3	FIRME	14.097	281.94	110360.3
	REVESTIMIENTO	16.207	324.12	22411.2	SUBBALASTO	3.486	69.73	26941.0
	BALASTO	4.195	83.89	30423.2	EXC TUNEL T	253.943	5078.84	345752.3
7.560.000	CAPA DE FORMA	6.416	128.32	53124.6	FIRME	14.095	281.92	110642.2
	REVESTIMIENTO	16.209	324.16	22735.4	SUBBALASTO	3.486	69.72	27010.8
	BALASTO	4.194	83.88	30507.0	EXC TUNEL T	253.942	5078.84	350831.2
7.580.000	CAPA DE FORMA	6.417	128.33	53252.9	FIRME	14.096	281.91	110924.2
	REVESTIMIENTO	16.208	324.17	23059.5	SUBBALASTO	3.486	69.72	27080.5
	BALASTO	4.193	83.87	30590.9	EXC TUNEL T	253.943	5078.85	355910.0
7.600.000	CAPA DE FORMA	6.417	128.34	53381.3	FIRME	14.096	281.92	111206.1
	REVESTIMIENTO	16.207	324.15	23383.7	SUBBALASTO	3.485	69.71	27150.2
	BALASTO	4.194	83.87	30674.8	EXC TUNEL T	253.943	5078.86	360988.9

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
7.620.000	CAPA DE FORMA	6.416	128.33	53509.6	FIRME	14.096	281.92	111488.0
	REVESTIMIENTO	16.207	324.14	23707.8	SUBBALASTO	3.486	69.71	27219.9
	BALASTO	4.194	83.88	30758.7	EXC TUNEL T	253.943	5078.86	366067.7
7.640.000	CAPA DE FORMA	6.415	128.31	53637.9	FIRME	14.096	281.92	111769.9
	REVESTIMIENTO	16.206	324.13	24032.0	SUBBALASTO	3.487	69.73	27289.6
	BALASTO	4.194	83.88	30842.5	EXC TUNEL T	253.941	5078.84	371146.6
7.660.000	CAPA DE FORMA	6.416	128.31	53766.2	FIRME	14.097	281.92	112051.8
	REVESTIMIENTO	16.208	324.14	24356.1	SUBBALASTO	3.487	69.74	27359.4
	BALASTO	4.194	83.88	30926.4	EXC TUNEL T	253.943	5078.84	376225.4
7.680.000	CAPA DE FORMA	6.416	128.32	53894.6	FIRME	14.096	281.92	112333.8
	REVESTIMIENTO	16.207	324.15	24680.2	SUBBALASTO	3.486	69.73	27429.1
	BALASTO	4.194	83.88	31010.3	EXC TUNEL T	253.941	5078.84	381304.3
7.700.000	CAPA DE FORMA	6.416	128.32	54022.9	FIRME	14.097	281.93	112615.7
	REVESTIMIENTO	16.206	324.13	25004.4	SUBBALASTO	3.486	69.72	27498.8
	BALASTO	4.194	83.89	31094.2	EXC TUNEL T	253.943	5078.84	386383.1
7.720.000	CAPA DE FORMA	6.417	128.33	54151.2	FIRME	14.096	281.93	112897.6
	REVESTIMIENTO	16.208	324.14	25328.5	SUBBALASTO	3.485	69.71	27568.5
	BALASTO	4.195	83.89	31178.1	EXC TUNEL T	253.945	5078.88	391462.0
7.740.000	CAPA DE FORMA	6.416	128.33	54279.5	FIRME	14.096	281.93	113179.6
	REVESTIMIENTO	16.206	324.14	25652.7	SUBBALASTO	3.486	69.71	27638.2
	BALASTO	4.194	83.89	31262.0	EXC TUNEL T	253.943	5078.87	396540.9
7.760.000	CAPA DE FORMA	6.415	128.31	54407.8	FIRME	14.096	281.92	113461.5
	REVESTIMIENTO	16.206	324.12	25976.8	SUBBALASTO	3.487	69.73	27707.9
	BALASTO	4.194	83.89	31345.9	EXC TUNEL T	253.942	5078.85	401619.7
7.780.000	CAPA DE FORMA	6.415	128.30	54536.1	FIRME	14.096	281.92	113743.4
	REVESTIMIENTO	16.208	324.14	26300.9	SUBBALASTO	3.486	69.73	27777.7
	BALASTO	4.194	83.89	31429.7	EXC TUNEL T	253.943	5078.85	406698.6
7.800.000	CAPA DE FORMA	6.416	128.32	54664.5	FIRME	14.096	281.92	114025.3
	REVESTIMIENTO	16.208	324.16	26625.1	SUBBALASTO	3.486	69.72	27847.4
	BALASTO	4.194	83.88	31513.6	EXC TUNEL T	253.941	5078.84	411777.4
7.820.000	CAPA DE FORMA	6.417	128.33	54792.8	FIRME	14.097	281.93	114307.2
	REVESTIMIENTO	16.207	324.15	26949.2	SUBBALASTO	3.486	69.72	27917.1
	BALASTO	4.193	83.87	31597.5	EXC TUNEL T	253.943	5078.85	416856.2
7.840.000	CAPA DE FORMA	6.417	128.34	54921.1	FIRME	14.097	281.93	114589.2
	REVESTIMIENTO	16.208	324.15	27273.4	SUBBALASTO	3.486	69.72	27986.8
	BALASTO	4.194	83.87	31681.4	EXC TUNEL T	253.945	5078.88	421935.1





PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
7.860.000	CAPA DE FORMA	6.417	128.34	55049.5	FIRME	14.096	281.92	114871.1
	REVESTIMIENTO	16.207	324.15	27597.5	SUBBALASTO	3.485	69.71	28056.5
	BALASTO	4.194	83.88	31765.3	EXC TUNEL T	253.943	5078.88	427014.0
7.880.000	CAPA DE FORMA	6.416	128.33	55177.8	FIRME	14.096	281.92	115153.0
	REVESTIMIENTO	16.207	324.14	27921.7	SUBBALASTO	3.486	69.71	28126.3
	BALASTO	4.194	83.88	31849.1	EXC TUNEL T	253.943	5078.86	432092.9
7.900.000	CAPA DE FORMA	6.416	128.32	55306.1	FIRME	14.096	281.93	115434.9
	REVESTIMIENTO	16.207	324.14	28245.8	SUBBALASTO	3.486	69.72	28196.0
	BALASTO	4.194	83.88	31933.0	EXC TUNEL T	253.943	5078.86	437171.7
7.920.000	CAPA DE FORMA	6.416	128.32	55434.4	FIRME	14.097	281.93	115716.9
	REVESTIMIENTO	16.207	324.14	28570.0	SUBBALASTO	3.486	69.72	28265.7
	BALASTO	4.195	83.89	32016.9	EXC TUNEL T	253.943	5078.86	442250.6
7.940.000	CAPA DE FORMA	6.417	128.33	55562.8	FIRME	14.097	281.94	115998.8
	REVESTIMIENTO	16.205	324.12	28894.1	SUBBALASTO	3.486	69.72	28335.4
	BALASTO	4.194	83.89	32100.8	EXC TUNEL T	253.942	5078.85	447329.4
7.960.000	CAPA DE FORMA	6.416	128.33	55691.1	FIRME	14.097	281.94	116280.8
	REVESTIMIENTO	16.206	324.11	29218.2	SUBBALASTO	3.486	69.72	28405.1
	BALASTO	4.194	83.89	32184.7	EXC TUNEL T	253.943	5078.84	452408.3
7.980.000	CAPA DE FORMA	6.417	128.33	55819.4	FIRME	14.096	281.93	116562.7
	REVESTIMIENTO	16.210	324.16	29542.3	SUBBALASTO	3.486	69.72	28474.9
	BALASTO	4.193	83.88	32268.6	EXC TUNEL T	253.944	5078.86	457487.1
8.000.000	CAPA DE FORMA	6.417	128.34	55947.8	FIRME	14.096	281.92	116844.6
	REVESTIMIENTO	16.207	324.17	29866.5	SUBBALASTO	3.485	69.71	28544.6
	BALASTO	4.194	83.87	32352.4	EXC TUNEL T	253.942	5078.86	462566.0
8.020.000	CAPA DE FORMA	6.415	128.32	56076.1	FIRME	14.096	281.92	117126.5
	REVESTIMIENTO	16.207	324.14	30190.7	SUBBALASTO	3.486	69.71	28614.3
	BALASTO	4.194	83.88	32436.3	EXC TUNEL T	253.943	5078.85	467644.8
8.040.000	CAPA DE FORMA	6.416	128.32	56204.4	FIRME	14.096	281.92	117408.4
	REVESTIMIENTO	16.208	324.15	30514.8	SUBBALASTO	3.486	69.72	28684.0
	BALASTO	4.194	83.88	32520.2	EXC TUNEL T	253.943	5078.86	472723.7
8.060.000	CAPA DE FORMA	6.415	128.31	56332.7	FIRME	14.096	281.92	117690.4
	REVESTIMIENTO	16.207	324.14	30838.9	SUBBALASTO	3.487	69.73	28753.7
	BALASTO	4.194	83.88	32604.1	EXC TUNEL T	253.941	5078.84	477802.5
8.080.000	CAPA DE FORMA	6.416	128.31	56461.0	FIRME	14.096	281.92	117972.3
	REVESTIMIENTO	16.209	324.15	31163.1	SUBBALASTO	3.487	69.74	28823.5
	BALASTO	4.193	83.88	32688.0	EXC TUNEL T	253.943	5078.84	482881.4

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
8.100.000	CAPA DE FORMA	6.417	128.33	56589.4	FIRME	14.096	281.93	118254.2
	REVESTIMIENTO	16.210	324.18	31487.3	SUBBALASTO	3.486	69.73	28893.2
	BALASTO	4.194	83.87	32771.8	EXC TUNEL T	253.944	5078.87	487960.3
8.120.000	CAPA DE FORMA	6.416	128.33	56717.7	FIRME	14.096	281.93	118536.1
	REVESTIMIENTO	16.206	324.15	31811.4	SUBBALASTO	3.486	69.72	28962.9
	BALASTO	4.194	83.88	32855.7	EXC TUNEL T	253.943	5078.87	493039.1
8.140.000	CAPA DE FORMA	6.416	128.32	56846.0	FIRME	14.096	281.93	118818.1
	REVESTIMIENTO	16.208	324.14	32135.6	SUBBALASTO	3.486	69.72	29032.6
	BALASTO	4.195	83.89	32939.6	EXC TUNEL T	253.945	5078.88	498118.0
8.160.000	CAPA DE FORMA	6.416	128.32	56974.3	FIRME	14.096	281.93	119100.0
	REVESTIMIENTO	16.207	324.15	32459.7	SUBBALASTO	3.486	69.72	29102.4
	BALASTO	4.194	83.89	33023.5	EXC TUNEL T	253.942	5078.87	503196.9
8.180.000	CAPA DE FORMA	6.415	128.31	57102.6	FIRME	14.096	281.92	119381.9
	REVESTIMIENTO	16.207	324.14	32783.9	SUBBALASTO	3.487	69.73	29172.1
	BALASTO	4.194	83.89	33107.4	EXC TUNEL T	253.942	5078.84	508275.7
8.200.000	CAPA DE FORMA	6.415	128.30	57230.9	FIRME	14.096	281.92	119663.8
	REVESTIMIENTO	16.208	324.15	33108.0	SUBBALASTO	3.487	69.74	29241.8
	BALASTO	4.194	83.88	33191.3	EXC TUNEL T	253.942	5078.84	513354.6
8.220.000	CAPA DE FORMA	6.416	128.31	57359.2	FIRME	14.096	281.92	119945.8
	REVESTIMIENTO	16.209	324.17	33432.2	SUBBALASTO	3.487	69.74	29311.6
	BALASTO	4.193	83.87	33275.1	EXC TUNEL T	253.943	5078.85	518433.4
8.240.000	CAPA DE FORMA	6.417	128.33	57487.6	FIRME	14.096	281.92	120227.7
	REVESTIMIENTO	16.207	324.17	33756.3	SUBBALASTO	3.485	69.71	29381.3
	BALASTO	4.194	83.87	33359.0	EXC TUNEL T	253.943	5078.86	523512.3
8.260.000	CAPA DE FORMA	6.417	128.34	57615.9	FIRME	14.097	281.92	120509.6
	REVESTIMIENTO	16.208	324.15	34080.5	SUBBALASTO	3.486	69.71	29451.0
	BALASTO	4.194	83.88	33442.9	EXC TUNEL T	253.945	5078.88	528591.1
8.280.000	CAPA DE FORMA	6.415	128.32	57744.2	FIRME	14.096	281.92	120791.5
	REVESTIMIENTO	16.207	324.15	34404.6	SUBBALASTO	3.486	69.72	29520.7
	BALASTO	4.194	83.88	33526.8	EXC TUNEL T	253.943	5078.87	533670.0
8.300.000	CAPA DE FORMA	6.416	128.32	57872.5	FIRME	14.096	281.92	121073.4
	REVESTIMIENTO	16.207	324.14	34728.8	SUBBALASTO	3.486	69.72	29590.4
	BALASTO	4.194	83.88	33610.7	EXC TUNEL T	253.943	5078.86	538748.9
8.320.000	CAPA DE FORMA	6.416	128.32	58000.9	FIRME	14.097	281.93	121355.4
	REVESTIMIENTO	16.205	324.13	35052.9	SUBBALASTO	3.487	69.73	29660.1
	BALASTO	4.194	83.88	33694.5	EXC TUNEL T	253.942	5078.84	543827.7



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
8.340.000	CAPA DE FORMA	6.416	128.32	58129.2	FIRME	14.097	281.94	121637.3
	REVESTIMIENTO	16.207	324.12	35377.0	SUBBALASTO	3.486	69.73	29729.9
	BALASTO	4.195	83.89	33778.4	EXC TUNEL T	253.943	5078.85	548906.6
8.360.000	CAPA DE FORMA	6.417	128.33	58257.5	FIRME	14.097	281.94	121919.2
	REVESTIMIENTO	16.205	324.12	35701.2	SUBBALASTO	3.485	69.71	29799.6
	BALASTO	4.195	83.90	33862.3	EXC TUNEL T	253.942	5078.85	553985.4
8.380.000	CAPA DE FORMA	6.416	128.33	58385.8	FIRME	14.097	281.94	122201.2
	REVESTIMIENTO	16.206	324.11	36025.3	SUBBALASTO	3.486	69.71	29869.3
	BALASTO	4.194	83.90	33946.2	EXC TUNEL T	253.943	5078.84	559064.3
8.400.000	CAPA DE FORMA	6.417	128.33	58514.2	FIRME	14.096	281.93	122483.1
	REVESTIMIENTO	16.208	324.14	36349.4	SUBBALASTO	3.486	69.72	29939.0
	BALASTO	4.193	83.88	34030.1	EXC TUNEL T	253.944	5078.86	564143.1
8.420.000	CAPA DE FORMA	6.417	128.34	58642.5	FIRME	14.096	281.92	122765.0
	REVESTIMIENTO	16.207	324.15	36673.6	SUBBALASTO	3.485	69.71	30008.7
	BALASTO	4.194	83.88	34114.0	EXC TUNEL T	253.942	5078.86	569222.0
8.440.000	CAPA DE FORMA	6.415	128.32	58770.8	FIRME	14.096	281.92	123047.0
	REVESTIMIENTO	16.206	324.13	36997.7	SUBBALASTO	3.487	69.71	30078.4
	BALASTO	4.194	83.88	34197.9	EXC TUNEL T	253.942	5078.84	574300.8
8.460.000	CAPA DE FORMA	6.416	128.31	58899.1	FIRME	14.097	281.92	123328.9
	REVESTIMIENTO	16.208	324.14	37321.8	SUBBALASTO	3.487	69.74	30148.2
	BALASTO	4.194	83.88	34281.7	EXC TUNEL T	253.943	5078.85	579379.7
8.480.000	CAPA DE FORMA	6.416	128.32	59027.5	FIRME	14.096	281.92	123610.8
	REVESTIMIENTO	16.207	324.15	37646.0	SUBBALASTO	3.486	69.73	30217.9
	BALASTO	4.194	83.88	34365.6	EXC TUNEL T	253.941	5078.84	584458.5
8.500.000	CAPA DE FORMA	6.417	128.33	59155.8	FIRME	14.097	281.92	123892.7
	REVESTIMIENTO	16.207	324.14	37970.1	SUBBALASTO	3.486	69.72	30287.6
	BALASTO	4.193	83.88	34449.5	EXC TUNEL T	253.943	5078.84	589537.3
8.520.000	CAPA DE FORMA	6.417	128.34	59284.1	FIRME	14.097	281.93	124174.7
	REVESTIMIENTO	16.208	324.15	38294.3	SUBBALASTO	3.486	69.72	30357.3
	BALASTO	4.194	83.87	34533.4	EXC TUNEL T	253.945	5078.87	594616.2
8.540.000	CAPA DE FORMA	6.416	128.33	59412.4	FIRME	14.096	281.93	124456.6
	REVESTIMIENTO	16.206	324.14	38618.4	SUBBALASTO	3.486	69.72	30427.1
	BALASTO	4.194	83.88	34617.2	EXC TUNEL T	253.943	5078.87	599695.1
8.560.000	CAPA DE FORMA	6.415	128.31	59540.8	FIRME	14.097	281.93	124738.5
	REVESTIMIENTO	16.207	324.12	38942.5	SUBBALASTO	3.487	69.73	30496.8
	BALASTO	4.195	83.89	34701.1	EXC TUNEL T	253.943	5078.86	604774.0

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
8.580.000	CAPA DE FORMA	6.416	128.32	59669.1	FIRME	14.097	281.94	125020.5
	REVESTIMIENTO	16.206	324.13	39266.7	SUBBALASTO	3.487	69.74	30566.5
	BALASTO	4.194	83.89	34785.0	EXC TUNEL T	253.942	5078.85	609852.8
8.600.000	CAPA DE FORMA	6.422	128.38	59797.5	FIRME	13.829	279.26	125299.7
	REVESTIMIENTO	16.928	331.34	39598.0	SUBBALASTO	3.490	69.77	30636.3
	BALASTO	3.917	81.11	34866.1	EXC TUNEL T	254.726	5086.68	614939.5
8.620.000	CAPA DE FORMA	6.425	128.48	59925.9	FIRME	13.492	273.21	125572.9
	REVESTIMIENTO	17.819	347.48	39945.5	SUBBALASTO	3.491	69.82	30706.1
	BALASTO	3.575	74.92	34941.0	EXC TUNEL T	255.643	5103.69	620043.2
8.640.000	CAPA DE FORMA	6.425	128.50	60054.4	FIRME	13.492	269.84	125842.8
	REVESTIMIENTO	17.819	356.38	40301.9	SUBBALASTO	3.491	69.83	30775.9
	BALASTO	3.575	71.51	35012.6	EXC TUNEL T	255.645	5112.88	625156.1
8.660.000	CAPA DE FORMA	6.425	128.50	60182.9	FIRME	13.491	269.83	126112.6
	REVESTIMIENTO	17.820	356.39	40658.3	SUBBALASTO	3.491	69.83	30845.8
	BALASTO	3.575	71.50	35084.1	EXC TUNEL T	255.645	5112.89	630268.9
8.680.000	CAPA DE FORMA	6.425	128.50	60311.4	FIRME	13.492	269.83	126382.4
	REVESTIMIENTO	17.818	356.39	41014.6	SUBBALASTO	3.492	69.83	30915.6
	BALASTO	3.575	71.50	35155.6	EXC TUNEL T	255.644	5112.89	635381.8
8.700.000	CAPA DE FORMA	6.426	128.51	60440.0	FIRME	13.492	269.84	126652.3
	REVESTIMIENTO	17.818	356.37	41371.0	SUBBALASTO	3.492	69.84	30985.4
	BALASTO	3.574	71.49	35227.0	EXC TUNEL T	255.645	5112.89	640494.7
8.740.000	CAPA DE FORMA	6.425	257.01	60697.0	FIRME	13.492	539.67	127191.9
	REVESTIMIENTO	17.820	712.76	42083.8	SUBBALASTO	3.491	139.66	31125.1
	BALASTO	3.575	142.99	35370.0	EXC TUNEL T	255.644	10225.77	650720.5
8.760.000	CAPA DE FORMA	6.425	128.50	60825.5	FIRME	13.492	269.84	127461.8
	REVESTIMIENTO	17.819	356.39	42440.2	SUBBALASTO	3.491	69.83	31194.9
	BALASTO	3.575	71.51	35441.5	EXC TUNEL T	255.645	5112.90	655833.4
8.780.000	CAPA DE FORMA	6.425	128.50	60954.0	FIRME	13.492	269.84	127731.6
	REVESTIMIENTO	17.819	356.37	42796.5	SUBBALASTO	3.491	69.83	31264.7
	BALASTO	3.575	71.51	35513.1	EXC TUNEL T	255.644	5112.89	660946.3
8.800.000	CAPA DE FORMA	6.425	128.50	61082.5	FIRME	13.492	269.84	128001.4
	REVESTIMIENTO	17.818	356.37	43152.9	SUBBALASTO	3.492	69.83	31334.6
	BALASTO	3.575	71.50	35584.6	EXC TUNEL T	255.645	5112.89	666059.2
8.820.000	CAPA DE FORMA	6.426	128.51	61211.0	FIRME	13.492	269.84	128271.3
	REVESTIMIENTO	17.817	356.34	43509.2	SUBBALASTO	3.492	69.84	31404.4
	BALASTO	3.575	71.50	35656.1	EXC TUNEL T	255.643	5112.88	671172.1





PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
8.840.000	CAPA DE FORMA	6.425	128.51	61339.5	FIRME	13.492	269.84	128541.1
	REVESTIMIENTO	17.817	356.34	43865.6	SUBBALASTO	3.491	69.83	31474.3
	BALASTO	3.575	71.50	35727.6	EXC TUNEL T	255.643	5112.87	676284.9
8.860.000	CAPA DE FORMA	6.426	128.51	61468.0	FIRME	13.492	269.84	128811.0
	REVESTIMIENTO	17.817	356.34	44221.9	SUBBALASTO	3.491	69.83	31544.1
	BALASTO	3.575	71.51	35799.1	EXC TUNEL T	255.641	5112.85	681397.8
8.880.000	CAPA DE FORMA	6.425	128.51	61596.5	FIRME	13.491	269.83	129080.8
	REVESTIMIENTO	17.821	356.38	44578.3	SUBBALASTO	3.491	69.83	31613.9
	BALASTO	3.574	71.50	35870.6	EXC TUNEL T	255.646	5112.87	686510.6
8.900.000	CAPA DE FORMA	6.424	128.50	61725.0	FIRME	13.491	269.82	129350.6
	REVESTIMIENTO	17.820	356.41	44934.7	SUBBALASTO	3.491	69.83	31683.7
	BALASTO	3.575	71.50	35942.1	EXC TUNEL T	255.644	5112.90	691623.5
8.920.000	CAPA DE FORMA	6.425	128.49	61853.5	FIRME	13.491	269.81	129620.4
	REVESTIMIENTO	17.821	356.41	45291.1	SUBBALASTO	3.491	69.83	31753.6
	BALASTO	3.574	71.50	36013.6	EXC TUNEL T	255.645	5112.90	696736.4
8.940.000	CAPA DE FORMA	6.425	128.50	61982.0	FIRME	13.492	269.83	129890.3
	REVESTIMIENTO	17.820	356.41	45647.5	SUBBALASTO	3.492	69.83	31823.4
	BALASTO	3.575	71.49	36085.0	EXC TUNEL T	255.644	5112.90	701849.3
8.960.000	CAPA DE FORMA	6.425	128.51	62110.5	FIRME	13.492	269.84	130160.1
	REVESTIMIENTO	17.817	356.37	46003.9	SUBBALASTO	3.491	69.83	31893.2
	BALASTO	3.575	71.50	36156.5	EXC TUNEL T	255.644	5112.88	706962.2
8.980.000	CAPA DE FORMA	6.426	128.51	62239.0	FIRME	13.492	269.84	130429.9
	REVESTIMIENTO	17.817	356.34	46360.2	SUBBALASTO	3.491	69.83	31963.0
	BALASTO	3.575	71.51	36228.1	EXC TUNEL T	255.642	5112.86	712075.1
9.000.000	CAPA DE FORMA	6.425	128.51	62367.5	FIRME	13.492	269.84	130699.8
	REVESTIMIENTO	17.819	356.36	46716.6	SUBBALASTO	3.491	69.83	32032.9
	BALASTO	3.575	71.51	36299.6	EXC TUNEL T	255.644	5112.86	717188.0
9.020.000	CAPA DE FORMA	6.424	128.50	62496.0	FIRME	13.491	269.83	130969.6
	REVESTIMIENTO	17.820	356.39	47073.0	SUBBALASTO	3.491	69.83	32102.7
	BALASTO	3.575	71.51	36371.1	EXC TUNEL T	255.645	5112.89	722300.8
9.040.000	CAPA DE FORMA	6.425	128.49	62624.5	FIRME	13.492	269.83	131239.4
	REVESTIMIENTO	17.819	356.39	47429.4	SUBBALASTO	3.491	69.83	32172.5
	BALASTO	3.575	71.51	36442.6	EXC TUNEL T	255.643	5112.88	727413.7
9.060.000	CAPA DE FORMA	6.425	128.50	62753.0	FIRME	13.492	269.84	131509.3
	REVESTIMIENTO	17.819	356.38	47785.8	SUBBALASTO	3.492	69.83	32242.4
	BALASTO	3.575	71.50	36514.1	EXC TUNEL T	255.645	5112.88	732526.6

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
9.080.000	CAPA DE FORMA	6.426	128.51	62881.5	FIRME	13.492	269.84	131779.1
	REVESTIMIENTO	17.818	356.37	48142.1	SUBBALASTO	3.492	69.84	32312.2
	BALASTO	3.574	71.49	36585.6	EXC TUNEL T	255.645	5112.90	737639.5
9.100.000	CAPA DE FORMA	6.425	128.51	63010.0	FIRME	13.492	269.84	132049.0
	REVESTIMIENTO	17.818	356.36	48498.5	SUBBALASTO	3.491	69.83	32382.0
	BALASTO	3.575	71.50	36657.1	EXC TUNEL T	255.643	5112.88	742752.4
9.120.000	CAPA DE FORMA	6.426	128.51	63138.5	FIRME	13.491	269.83	132318.8
	REVESTIMIENTO	17.819	356.37	48854.8	SUBBALASTO	3.491	69.83	32451.9
	BALASTO	3.574	71.50	36728.6	EXC TUNEL T	255.644	5112.87	747865.3
9.140.000	CAPA DE FORMA	6.425	128.51	63267.1	FIRME	13.492	269.83	132588.6
	REVESTIMIENTO	17.819	356.38	49211.2	SUBBALASTO	3.491	69.83	32521.7
	BALASTO	3.575	71.50	36800.1	EXC TUNEL T	255.643	5112.88	752978.1
9.160.000	CAPA DE FORMA	6.425	128.51	63395.6	FIRME	13.492	269.84	132858.5
	REVESTIMIENTO	17.820	356.39	49567.6	SUBBALASTO	3.491	69.83	32591.5
	BALASTO	3.575	71.51	36871.6	EXC TUNEL T	255.644	5112.88	758091.0
9.180.000	CAPA DE FORMA	6.425	128.50	63524.1	FIRME	13.492	269.84	133128.3
	REVESTIMIENTO	17.819	356.39	49924.0	SUBBALASTO	3.492	69.83	32661.3
	BALASTO	3.575	71.50	36943.1	EXC TUNEL T	255.646	5112.90	763203.9
9.200.000	CAPA DE FORMA	6.426	128.51	63652.6	FIRME	13.492	269.84	133398.1
	REVESTIMIENTO	17.817	356.36	50280.4	SUBBALASTO	3.492	69.84	32731.2
	BALASTO	3.575	71.50	37014.6	EXC TUNEL T	255.644	5112.90	768316.8
9.220.000	CAPA DE FORMA	6.425	128.51	63781.1	FIRME	13.492	269.84	133668.0
	REVESTIMIENTO	17.817	356.34	50636.7	SUBBALASTO	3.491	69.83	32801.0
	BALASTO	3.575	71.50	37086.1	EXC TUNEL T	255.643	5112.88	773429.7
9.240.000	CAPA DE FORMA	6.426	128.52	63909.6	FIRME	13.493	269.85	133937.8
	REVESTIMIENTO	17.816	356.33	50993.0	SUBBALASTO	3.491	69.83	32870.8
	BALASTO	3.575	71.51	37157.6	EXC TUNEL T	255.642	5112.85	778542.6
9.260.000	CAPA DE FORMA	6.425	128.52	64038.1	FIRME	13.492	269.85	134207.7
	REVESTIMIENTO	17.818	356.34	51349.4	SUBBALASTO	3.491	69.83	32940.7
	BALASTO	3.575	71.51	37229.1	EXC TUNEL T	255.644	5112.86	783655.4
9.280.000	CAPA DE FORMA	6.426	128.51	64166.6	FIRME	13.492	269.84	134477.5
	REVESTIMIENTO	17.817	356.35	51705.7	SUBBALASTO	3.490	69.81	33010.5
	BALASTO	3.576	71.52	37300.6	EXC TUNEL T	255.641	5112.85	788768.3
9.300.000	CAPA DE FORMA	6.425	128.51	64295.1	FIRME	13.491	269.82	134747.3
	REVESTIMIENTO	17.822	356.38	52062.1	SUBBALASTO	3.491	69.81	33080.3
	BALASTO	3.574	71.51	37372.1	EXC TUNEL T	255.646	5112.87	793881.1



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
9.320.000	CAPA DE FORMA	6.425	128.50	64423.6	FIRME	13.492	269.83	135017.2
	REVESTIMIENTO	17.819	356.41	52418.5	SUBBALASTO	3.492	69.83	33150.1
	BALASTO	3.575	71.49	37443.6	EXC TUNEL T	255.645	5112.91	798994.0
9.340.000	CAPA DE FORMA	6.425	128.50	64552.1	FIRME	13.491	269.83	135287.0
	REVESTIMIENTO	17.820	356.39	52774.9	SUBBALASTO	3.491	69.83	33219.9
	BALASTO	3.575	71.50	37515.1	EXC TUNEL T	255.644	5112.89	804106.9
9.360.000	CAPA DE FORMA	6.426	128.51	64680.6	FIRME	13.492	269.84	135556.8
	REVESTIMIENTO	17.818	356.38	53131.3	SUBBALASTO	3.491	69.83	33289.8
	BALASTO	3.575	71.50	37586.6	EXC TUNEL T	255.643	5112.87	809219.8
9.380.000	CAPA DE FORMA	6.425	128.51	64809.2	FIRME	13.492	269.84	135826.7
	REVESTIMIENTO	17.818	356.36	53487.6	SUBBALASTO	3.491	69.83	33359.6
	BALASTO	3.575	71.51	37658.1	EXC TUNEL T	255.644	5112.87	814332.7
9.400.000	CAPA DE FORMA	7.233	0.00	64809.2	FIRME	14.948	0.00	135826.7
	SUBBALASTO	3.848	0.00	33359.6	REVES CUNETAS	0.155	0.00	347.3
	D TIERRA	152.305	0.00	355981.8	SUELO SEL 1	5.156	0.00	26478.7
	BALASTO	3.867	0.00	37658.1				
9.420.000	CAPA DE FORMA	7.233	144.66	64953.8	FIRME	14.948	298.96	136125.6
	SUBBALASTO	3.850	76.98	33436.6	REVES CUNETAS	0.155	3.09	350.4
	D TIERRA	114.514	2668.19	358650.0	SUELO SEL 1	5.156	103.12	26581.8
	BALASTO	3.866	77.32	37735.4				
9.440.000	CAPA DE FORMA	7.232	144.64	65098.5	FIRME	14.947	298.95	136424.6
	SUBBALASTO	3.851	77.00	33513.6	REVES CUNETAS	0.155	3.09	353.5
	D TIERRA	84.043	1985.57	360635.5	SUELO SEL 1	5.156	103.12	26684.9
	BALASTO	3.865	77.31	37812.7				
9.460.000	CAPA DE FORMA	7.232	144.64	65243.1	FIRME	14.948	298.95	136723.5
	SUBBALASTO	3.850	77.00	33590.6	REVES CUNETAS	0.155	3.09	356.6
	D TIERRA	62.319	1463.61	362099.2	SUELO SEL 1	5.157	103.13	26788.0
	BALASTO	3.866	77.31	37890.0				
9.480.000	CAPA DE FORMA	7.232	144.65	65387.8	FIRME	14.948	298.95	137022.5
	SUBBALASTO	3.850	76.99	33667.6	REVES CUNETAS	0.155	3.09	359.7
	D TIERRA	40.835	1031.54	363130.7	SUELO SEL 1	5.156	103.12	26891.2
	BALASTO	3.866	77.31	37967.3				
9.500.000	CAPA DE FORMA	7.360	145.92	65533.7	FIRME	15.112	300.60	137323.1
	SUBBALASTO	3.888	77.37	33744.9	REVES CUNETAS	0.077	2.32	362.0
	D TIERRA	15.722	565.57	363696.3	SUELO SEL 1	5.226	103.82	26995.0

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	BALASTO	3.864	77.30	38044.6				
9.520.000	CAPA DE FORMA	8.640	160.00	65693.7	FIRME	16.450	315.62	137638.7
	SUBBALASTO	3.945	78.33	33823.3	REVES CUNETAS	0.000	0.77	362.8
	D TIERRA	0.072	157.94	363854.2	SUELO SEL 1	6.651	118.77	27113.8
	TERRAPLEN	5.314	53.14	293145.2	BALASTO	3.866	77.30	38121.9
9.540.000	CAPA DE FORMA	8.642	172.82	65866.5	FIRME	16.450	329.01	137967.7
	SUBBALASTO	3.943	78.88	33902.2	D TIERRA	0.000	0.72	363854.9
	SUELO SEL 1	6.660	133.11	27246.9	TERRAPLEN	36.281	415.95	293561.1
	BALASTO	3.866	77.31	38199.3				
9.560.000	CAPA DE FORMA	8.640	172.82	66039.3	FIRME	16.449	329.00	138296.7
	SUBBALASTO	3.945	78.88	33981.0	SUELO SEL 1	6.660	133.19	27380.1
	TERRAPLEN	71.603	1078.84	294640.0	BALASTO	3.865	77.30	38276.6
9.580.000	CAPA DE FORMA	8.640	172.80	66212.1	FIRME	16.451	329.00	138625.7
	SUBBALASTO	3.945	78.90	34059.9	SUELO SEL 1	6.662	133.21	27513.3
	TERRAPLEN	121.692	1932.95	296572.9	BALASTO	3.866	77.30	38353.9
9.620.000	CAPA DE FORMA	8.641	345.62	66557.7	FIRME	16.452	658.04	139283.8
	SUBBALASTO	3.946	157.81	34217.7	SUELO SEL 1	6.660	266.44	27779.7
	TERRAPLEN	105.554	4544.92	301117.8	BALASTO	3.865	154.61	38508.5
9.640.000	CAPA DE FORMA	8.640	172.81	66730.5	FIRME	16.450	329.02	139612.8
	SUBBALASTO	3.945	78.90	34296.6	SUELO SEL 1	6.660	133.20	27912.9
	TERRAPLEN	80.424	1859.79	302977.6	BALASTO	3.866	77.31	38585.8
9.660.000	CAPA DE FORMA	8.642	172.82	66903.4	FIRME	16.451	329.02	139941.8
	SUBBALASTO	3.943	78.88	34375.5	SUELO SEL 1	6.660	133.20	28046.1
	TERRAPLEN	44.344	1247.68	304225.3	BALASTO	3.867	77.32	38663.1
9.680.000	CAPA DE FORMA	8.055	166.97	67070.3	FIRME	15.864	323.15	140264.9
	SUBBALASTO	3.944	78.87	34454.4	D TIERRA	7.925	79.25	363934.2
	SUELO SEL 1	5.676	123.36	28169.5	TERRAPLEN	0.000	443.44	304668.7
	BALASTO	3.866	77.32	38740.4				
9.700.000	CAPA DE FORMA	7.232	152.86	67223.2	FIRME	14.947	308.11	140573.1
	SUBBALASTO	3.850	77.93	34532.3	REVES CUNETAS	0.155	1.55	364.4
	D TIERRA	57.395	653.21	364587.4	SUELO SEL 1	5.156	108.33	28277.8
	BALASTO	3.866	77.31	38817.7				
9.720.000	CAPA DE FORMA	7.232	144.64	67367.8	FIRME	14.947	298.94	140872.0
	SUBBALASTO	3.850	76.99	34609.3	REVES CUNETAS	0.155	3.09	367.5
	D TIERRA	134.477	1918.72	366506.1	SUELO SEL 1	5.157	103.13	28380.9
	BALASTO	3.865	77.31	38895.0				



PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
9.740.000	CAPA DE FORMA	7.232	144.64	67512.5	FIRME	14.947	298.94	141170.9
	SUBBALASTO	3.851	77.00	34686.3	REVES CUNETAS	0.155	3.09	370.6
	D TIERRA	224.391	3588.69	370094.8	SUELO SEL 1	5.156	103.12	28484.1
	BALASTO	3.865	77.30	38972.3				
9.760.000	CAPA DE FORMA	7.232	144.64	67657.1	FIRME	14.949	298.96	141469.9
	SUBBALASTO	3.851	77.01	34763.3	REVES CUNETAS	0.155	3.09	373.6
	D TIERRA	335.015	5594.07	375688.9	SUELO SEL 1	5.157	103.13	28587.2
	BALASTO	3.866	77.31	39049.6				
9.780.000	CAPA DE FORMA	7.233	144.65	67801.8	FIRME	14.996	299.45	141769.3
	SUBBALASTO	3.850	77.00	34840.3	REVES CUNETAS	0.155	3.09	376.7

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	PERFIL	VOL. PARCIAL	VOL. ACUMUL.
	D TIERRA	420.461	7554.76	383243.6	SUELO SEL 1	5.156	103.13	28690.3
	BALASTO	3.914	77.80	39127.4				
9.800.000	CAPA DE FORMA	7.232	144.65	67946.4	FIRME	15.044	300.40	142069.7
	SUBBALASTO	3.850	76.99	34917.3	REVES CUNETAS	0.155	3.09	379.8
	D TIERRA	497.779	9182.40	392426.0	SUELO SEL 1	5.156	103.12	28793.4
	BALASTO	3.962	78.76	39206.2				
9.820.000	CAPA DE FORMA	7.233	144.65	68091.0	FIRME	15.093	301.37	142371.1
	SUBBALASTO	3.850	76.99	34994.3	REVES CUNETAS	0.155	3.09	382.9
	D TIERRA	571.455	10692.34	403118.4	SUELO SEL 1	5.156	103.12	28896.5
	BALASTO	4.011	79.73	39285.9				

### 1.1.1 RESUMEN DE VOLUMENES TOTALES

MATERIAL	VOLUMEN
CAPA DE FORMA	68091.0
FIRME	142371.1
REVESTIMIENTO	53487.6
SUBBALASTO	34994.3
REVESTIMIENTO CUNETAS	382.9
D TIERRA	403118.4
SUELO SEL 1	28896.5
TERRAPLEN	304668.7
BALASTO	39285.9
EXC TUNEL T	814332.7



## 1.2 SUPERFICIE DE DESBROCE

**DESBROCE**

PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
40.000	15.565	15.588	0.000	0.000	0.000	0.000	0.000	0.000
60.000	15.115	15.133	0.000	0.000	306.807	0.000	307.205	0.000
80.000	14.472	14.482	0.000	0.000	602.680	0.000	603.347	0.000
100.000	14.344	14.347	0.000	0.000	890.836	0.000	891.632	0.000
180.000	13.458	13.460	0.000	0.000	2002.916	0.000	2003.893	0.000
220.000	15.459	15.459	0.000	0.000	2581.260	0.000	2582.263	0.000
240.000	15.456	15.456	0.000	0.000	2890.404	0.000	2891.407	0.000
260.000	15.372	15.372	0.000	0.000	3198.680	0.000	3199.683	0.000
280.000	15.108	15.108	0.000	0.000	3503.476	0.000	3504.479	0.000
300.000	14.799	14.799	0.000	0.000	3802.538	0.000	3803.541	0.000
320.000	14.467	14.467	0.000	0.000	4095.195	0.000	4096.198	0.000
440.000	14.454	14.454	0.000	0.000	5830.485	0.000	5831.490	0.000
460.000	9.603	9.603	5.618	5.618	6071.064	56.180	6072.068	56.180
660.000	0.000	0.000	17.262	17.265	7031.408	2344.216	7032.413	2344.429
680.000	0.000	0.000	16.378	16.382	7031.408	2680.621	7032.413	2680.894
720.000	0.000	0.000	17.841	17.868	7031.408	3365.013	7032.413	3365.896
760.000	25.732	27.657	0.000	0.000	7546.054	3721.843	7585.546	3723.258
780.000	36.951	39.217	0.000	0.000	8172.889	3721.843	8254.286	3723.258
1460.000	44.609	47.279	0.000	0.000	8618.981	3721.843	8727.077	3723.258
1480.000	40.712	43.085	0.000	0.000	9472.189	3721.843	9630.718	3723.258
1500.000	35.655	37.158	0.000	0.000	10235.858	3721.843	10433.149	3723.258
1520.000	32.802	34.113	0.000	0.000	10920.428	3721.843	11145.859	3723.258
1540.000	31.351	32.796	0.000	0.000	11561.953	3721.843	11814.945	3723.258
1560.000	30.101	31.714	0.000	0.000	12176.472	3721.843	12460.044	3723.258
1580.000	28.071	29.813	0.000	0.000	12758.191	3721.843	13075.318	3723.258

PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
1600.000	24.709	26.017	0.000	0.000	13285.986	3721.843	13633.614	3723.258
1620.000	20.267	21.162	0.000	0.000	13735.739	3721.843	14105.404	3723.258
1640.000	14.051	14.658	6.974	7.258	14078.915	3791.586	14463.605	3795.836
1660.000	2.345	2.441	19.126	19.700	14242.880	4052.587	14634.596	4065.419
1680.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1700.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1720.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1740.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1760.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1780.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1800.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1820.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1840.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1860.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1880.000	0.000	0.000	0.000	0.000	14266.335	4243.844	14659.011	4262.423
1900.000	0.000	0.000	48.964	49.109	14266.335	4733.480	14659.011	4753.516
1920.000	0.000	0.000	34.219	34.496	14266.335	5565.309	14659.011	5589.566
1940.000	14.307	14.321	0.000	0.000	14409.409	5907.502	14802.223	5934.523
1960.000	23.648	23.694	0.000	0.000	14788.962	5907.502	15182.376	5934.523
1980.000	33.916	34.240	0.000	0.000	15364.600	5907.502	15761.720	5934.523
2000.000	39.876	40.950	0.000	0.000	16102.517	5907.502	16513.624	5934.523
2020.000	47.238	49.975	0.000	0.000	16973.651	5907.502	17422.877	5934.523
2040.000	51.213	54.729	0.000	0.000	17958.158	5907.502	18469.920	5934.523
2060.000	53.836	57.732	0.000	0.000	19008.648	5907.502	19594.531	5934.523
2080.000	53.086	57.827	0.000	0.000	20077.865	5907.502	20750.117	5934.523





PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
2100.000	49.430	54.240	0.000	0.000	21103.019	5907.502	21870.784	5934.523
2120.000	47.006	52.555	0.000	0.000	22067.377	5907.502	22938.737	5934.523
2140.000	44.989	50.483	0.000	0.000	22987.331	5907.502	23969.122	5934.523
2160.000	40.411	45.314	0.000	0.000	23841.328	5907.502	24927.095	5934.523
2180.000	36.777	40.451	0.000	0.000	24613.206	5907.502	25784.747	5934.523
2200.000	37.929	41.610	0.000	0.000	25360.271	5907.502	26605.353	5934.523
2220.000	39.105	43.346	0.000	0.000	26130.612	5907.502	27454.905	5934.523
2240.000	39.082	43.133	0.000	0.000	26912.482	5907.502	28319.690	5934.523
2260.000	37.552	40.801	0.000	0.000	27678.821	5907.502	29159.032	5934.523
2280.000	34.837	37.353	0.000	0.000	28402.711	5907.502	29940.573	5934.523
2300.000	31.123	33.037	0.000	0.000	29062.312	5907.502	30644.472	5934.523
2320.000	26.578	28.070	0.000	0.000	29639.325	5907.502	31255.544	5934.523
2340.000	21.381	22.472	0.000	0.000	30118.919	5907.502	31760.965	5934.523
2360.000	15.410	16.465	11.925	13.003	30486.826	6026.751	32150.341	6064.557
2380.000	6.691	7.360	39.551	44.287	30707.833	6541.508	32388.591	6637.457
2400.000	0.514	0.571	44.779	49.272	30779.879	7384.801	32467.897	7573.042
2420.000	0.000	0.000	43.637	46.946	30785.016	8268.959	32473.605	8535.224
2440.000	0.000	0.000	41.997	44.497	30785.016	9125.305	32473.605	9449.657
2460.000	0.000	0.000	39.050	40.997	30785.016	9935.784	32473.605	10304.600
2480.000	0.000	0.000	36.445	37.381	30785.016	10690.737	32473.605	11088.387
2500.000	0.000	0.000	37.572	38.392	30785.016	11430.905	32473.605	11846.125
2520.000	0.000	0.000	40.159	40.851	30785.016	12208.216	32473.605	12638.559
2540.000	0.000	0.000	39.381	39.704	30785.016	13003.621	32473.605	13444.112
2560.000	0.000	0.000	36.858	37.069	30785.016	13766.015	32473.605	14211.846
2580.000	0.000	0.000	31.172	31.241	30785.016	14446.315	32473.605	14894.949
2600.000	0.000	0.000	26.627	26.677	30785.016	15024.309	32473.605	15474.124
2620.000	0.000	0.000	22.594	22.643	30785.016	15516.520	32473.605	15967.315
2640.000	0.000	0.000	22.061	22.209	30785.016	15963.066	32473.605	16415.833

PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
2660.000	0.000	0.000	22.395	22.552	30785.016	16407.620	32473.605	16863.440
2680.000	0.000	0.000	25.283	25.521	30785.016	16884.398	32473.605	17344.169
2700.000	0.000	0.000	23.475	23.577	30785.016	17371.978	32473.605	17835.151
2720.000	18.492	19.075	0.000	0.000	30969.937	17606.725	32664.353	18070.917
2740.000	23.951	24.178	0.000	0.000	31394.364	17606.725	33096.878	18070.917
2760.000	25.260	25.260	0.000	0.000	31886.474	17606.725	33591.259	18070.917
2780.000	23.107	23.192	0.000	0.000	32370.147	17606.725	34075.786	18070.917
2800.000	28.801	28.853	0.000	0.000	32889.222	17606.725	34596.236	18070.917
2820.000	27.813	27.883	0.000	0.000	33455.355	17606.725	35163.588	18070.917
2840.000	27.256	27.341	0.000	0.000	34006.038	17606.725	35715.823	18070.917
2860.000	25.693	25.790	0.000	0.000	34535.519	17606.725	36247.129	18070.917
2880.000	23.838	23.943	0.000	0.000	35030.825	17606.725	36744.453	18070.917
2900.000	22.143	22.279	0.000	0.000	35490.639	17606.725	37206.669	18070.917
2920.000	20.592	20.703	0.000	0.000	35917.993	17606.725	37636.484	18070.917
2940.000	18.240	18.364	0.000	0.000	36306.312	17606.725	38027.150	18070.917
2960.000	15.428	15.555	0.000	0.000	36642.993	17606.725	38366.341	18070.917
2980.000	9.284	9.329	6.671	6.722	36890.121	17673.434	38615.188	18138.138
3000.000	0.000	0.000	19.087	19.162	36982.965	17931.015	38708.482	18396.976
3020.000	0.000	0.000	24.973	25.094	36982.965	18371.616	38708.482	18839.529
3040.000	0.000	0.000	32.126	32.308	36982.965	18942.605	38708.482	19413.548
3060.000	0.000	0.000	40.829	41.076	36982.965	19672.157	38708.482	20147.396
3080.000	0.000	0.000	49.295	49.528	36982.965	20573.396	38708.482	21053.444
3100.000	0.000	0.000	51.949	52.283	36982.965	21585.832	38708.482	22071.560
3120.000	0.000	0.000	50.790	51.091	36982.965	22613.226	38708.482	23105.302
3140.000	0.000	0.000	43.133	43.424	36982.965	23552.458	38708.482	24050.453
3160.000	0.000	0.000	36.070	36.336	36982.965	24344.489	38708.482	24848.058
3180.000	0.000	0.000	31.893	31.997	36982.965	25024.124	38708.482	25531.395
3200.000	0.000	0.000	34.072	34.221	36982.965	25683.773	38708.482	26193.579



PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
3220.000	0.000	0.000	34.678	34.741	36982.965	26371.274	38708.482	26883.199
3240.000	0.000	0.000	37.605	37.739	36982.965	27094.107	38708.482	27607.993
3260.000	0.000	0.000	40.290	40.441	36982.965	27873.056	38708.482	28389.788
3280.000	0.000	0.000	42.619	42.775	36982.965	28702.142	38708.482	29221.946
3300.000	0.000	0.000	45.447	45.601	36982.965	29582.800	38708.482	30105.703
3320.000	0.000	0.000	48.920	49.086	36982.965	30526.470	38708.482	31052.570
3340.000	0.000	0.000	54.035	54.199	36982.965	31556.022	38708.482	32085.419
3360.000	0.000	0.000	60.473	60.649	36982.965	32701.106	38708.482	33233.901
3380.000	0.000	0.000	67.761	68.009	36982.965	33983.448	38708.482	34520.483
3400.000	0.000	0.000	68.163	68.411	36982.965	35342.685	38708.482	35884.675
3420.000	0.000	0.000	68.358	68.646	36982.965	36707.894	38708.482	37255.245
3440.000	0.000	0.000	67.424	67.754	36982.965	38065.723	38708.482	38619.253
3460.000	0.000	0.000	59.592	59.871	36982.965	39335.886	38708.482	39895.502
3480.000	0.000	0.000	52.694	52.959	36982.965	40458.740	38708.482	41023.800
3500.000	0.000	0.000	48.341	48.665	36982.965	41469.090	38708.482	42040.046
3520.000	0.000	0.000	43.959	44.422	36982.965	42392.098	38708.482	42970.915
3540.000	0.000	0.000	39.083	39.771	36982.965	43222.525	38708.482	43812.842
3560.000	0.000	0.000	28.959	29.159	36982.965	43902.953	38708.482	44502.147
3580.000	0.000	0.000	24.759	24.982	36982.965	44440.140	38708.482	45043.555
3600.000	0.000	0.000	20.881	21.100	36982.965	44896.537	38708.482	45504.367
3620.000	8.653	8.745	8.219	8.309	37069.496	45187.527	38795.934	45798.449
3640.000	17.542	17.779	0.000	0.000	37331.450	45269.712	39061.180	45881.537
3660.000	20.837	21.057	0.000	0.000	37715.240	45269.712	39449.541	45881.537
3680.000	22.646	22.926	0.000	0.000	38150.070	45269.712	39889.371	45881.537
3700.000	23.941	24.199	0.000	0.000	38615.947	45269.712	40360.622	45881.537
3720.000	23.557	23.787	0.000	0.000	39090.933	45269.712	40840.486	45881.537
3740.000	20.172	20.269	0.000	0.000	39528.225	45269.712	41281.048	45881.537
3760.000	14.880	14.945	0.000	0.000	39878.743	45269.712	41633.191	45881.537

PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
3780.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3800.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3820.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3840.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3860.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3880.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3900.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3920.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3940.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3960.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
3980.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
4000.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
4020.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
4060.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
4080.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
4100.000	0.000	0.000	0.000	0.000	40027.541	45269.712	41782.644	45881.537
4120.000	0.000	0.000	20.745	21.005	40027.541	45477.164	41782.644	46091.584
4140.000	17.096	17.186	0.000	0.000	40198.497	45684.616	41954.507	46301.631
4160.000	19.782	19.857	0.000	0.000	40567.276	45684.616	42324.935	46301.631
4180.000	19.894	19.926	0.000	0.000	40964.039	45684.616	42722.763	46301.631
4200.000	19.376	19.393	0.000	0.000	41356.744	45684.616	43115.952	46301.631
4220.000	19.292	19.307	0.000	0.000	41743.433	45684.616	43502.948	46301.631
4240.000	18.350	18.357	0.000	0.000	42119.858	45684.616	43879.584	46301.631
4260.000	16.880	16.884	0.000	0.000	42472.161	45684.616	44231.989	46301.631
4280.000	14.292	14.315	0.000	0.000	42783.878	45684.616	44543.977	46301.631
4300.000	0.000	0.000	17.681	17.699	42926.793	45861.431	44687.127	46478.623
4320.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4340.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615



PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
4360.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4380.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4400.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4420.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4440.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4460.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4480.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4500.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4520.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4540.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4560.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4580.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4600.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4620.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4640.000	0.000	0.000	0.000	0.000	42926.793	46038.246	44687.127	46655.615
4660.000	0.000	0.000	26.153	26.169	42926.793	46299.775	44687.127	46917.309
4680.000	0.000	0.000	23.847	23.889	42926.793	46799.775	44687.127	47417.894
4700.000	0.000	0.000	23.469	23.521	42926.793	47272.940	44687.127	47892.001
4720.000	0.000	0.000	23.978	24.030	42926.793	47747.414	44687.127	48367.518
4740.000	0.000	0.000	24.500	24.551	42926.793	48232.193	44687.127	48853.331
4760.000	0.000	0.000	25.881	25.918	42926.793	48736.005	44687.127	49358.026
4780.000	0.000	0.000	29.198	29.242	42926.793	49286.802	44687.127	49909.625
4800.000	0.000	0.000	32.059	32.125	42926.793	49899.377	44687.127	50523.293
4820.000	0.000	0.000	36.046	36.163	42926.793	50580.428	44687.127	51206.179
4840.000	0.000	0.000	40.056	40.172	42926.793	51341.451	44687.127	51969.534
4860.000	0.000	0.000	41.653	41.863	42926.793	52158.545	44687.127	52789.888
4880.000	0.000	0.000	40.563	40.869	42926.793	52980.705	44687.127	53617.214
4900.000	0.000	0.000	38.328	38.633	42926.793	53769.610	44687.127	54412.243

PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
4920.000	0.000	0.000	35.430	35.668	42926.793	54507.181	44687.127	55155.256
4940.000	0.000	0.000	30.676	30.833	42926.793	55168.232	44687.127	55820.269
4960.000	0.000	0.000	25.414	25.505	42926.793	55729.125	44687.127	56383.649
4980.000	0.000	0.000	20.997	21.097	42926.793	56193.234	44687.127	56849.661
5000.000	3.523	3.530	13.588	13.661	42962.022	56539.089	44722.426	57197.237
5020.000	14.604	14.625	0.000	0.000	43143.290	56674.971	44903.975	57333.848
5040.000	14.660	14.690	0.000	0.000	43435.935	56674.971	45197.128	57333.848
5060.000	14.877	14.913	0.000	0.000	43731.312	56674.971	45493.160	57333.848
5080.000	10.399	10.424	4.340	4.350	43984.071	56718.367	45746.528	57377.349
5100.000	5.493	5.508	10.332	10.385	44142.988	56865.088	45905.849	57524.700
5120.000	0.000	0.000	19.476	19.611	44197.919	57163.171	45960.934	57824.659
5140.000	0.000	0.000	22.529	22.791	44197.919	57583.224	45960.934	58248.681
5160.000	0.042	0.042	19.454	19.599	44198.340	58003.058	45961.356	58672.587
5180.000	4.592	4.615	11.802	11.868	44244.684	58315.620	46007.926	58987.261
5200.000	4.666	4.676	10.739	10.758	44337.267	58541.037	46100.832	59213.520
5240.000	0.000	0.000	19.724	19.805	44430.583	59150.303	46194.348	59824.777
5260.000	0.000	0.000	24.948	25.137	44430.583	59597.026	46194.348	60274.196
5280.000	0.000	0.000	29.033	29.419	44430.583	60136.845	46194.348	60819.755
5300.000	0.000	0.000	24.637	25.179	44430.583	60673.551	46194.348	61365.737
5320.000	16.439	16.653	0.000	0.000	44594.969	60919.923	46360.878	61617.528
5340.000	21.261	21.487	0.000	0.000	44971.968	60919.923	46742.283	61617.528
5360.000	25.176	25.321	0.000	0.000	45436.337	60919.923	47210.367	61617.528
5380.000	26.903	26.985	0.000	0.000	45957.124	60919.923	47733.423	61617.528
5400.000	26.185	26.290	0.000	0.000	46488.005	60919.923	48266.171	61617.528
5420.000	23.914	24.026	0.000	0.000	46988.997	60919.923	48769.328	61617.528
5440.000	22.536	22.623	0.000	0.000	47453.495	60919.923	49235.812	61617.528
5460.000	23.456	23.598	0.000	0.000	47913.414	60919.923	49698.018	61617.528
5480.000	23.681	23.884	0.000	0.000	48384.783	60919.923	50172.831	61617.528



PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
5500.000	21.992	22.132	0.000	0.000	48841.506	60919.923	50632.987	61617.528
5520.000	17.998	18.068	0.000	0.000	49241.407	60919.923	51034.985	61617.528
5540.000	15.596	15.729	0.000	0.000	49577.354	60919.923	51372.955	61617.528
5560.000	16.187	16.380	0.000	0.000	49895.191	60919.923	51694.050	61617.528
5580.000	13.293	13.473	3.708	3.760	50189.991	60957.007	51992.578	61655.129
5600.000	8.146	8.227	9.001	9.123	50404.379	61084.103	52209.571	61783.965
5620.000	5.059	5.097	11.649	11.779	50536.434	61290.605	52342.803	61992.991
5640.000	4.575	4.598	12.065	12.159	50632.777	61527.746	52439.753	62232.378
5660.000	3.091	3.108	14.162	14.248	50709.435	61790.022	52516.814	62496.448
5680.000	0.000	0.000	21.117	21.254	50740.344	62142.814	52547.892	62851.466
5700.000	0.000	0.000	25.682	25.825	50740.344	62610.805	52547.892	63322.256
5720.000	0.000	0.000	25.361	25.449	50740.344	63121.235	52547.892	63834.997
5740.000	6.716	6.809	10.959	11.115	50807.508	63484.429	52615.984	64200.643
5760.000	15.726	15.888	0.000	0.000	51031.932	63594.016	52842.954	64311.797
5780.000	18.575	18.734	0.000	0.000	51374.938	63594.016	53189.176	64311.797
5800.000	21.120	21.200	0.000	0.000	51771.881	63594.016	53588.524	64311.797
5820.000	23.761	23.880	0.000	0.000	52220.684	63594.016	54039.333	64311.797
5840.000	26.505	26.579	0.000	0.000	52723.344	63594.016	54543.927	64311.797
5860.000	29.233	29.290	0.000	0.000	53280.728	63594.016	55102.616	64311.797
5880.000	32.011	32.031	0.000	0.000	53893.170	63594.016	55715.827	64311.797
5900.000	35.440	35.444	0.000	0.000	54567.683	63594.016	56390.577	64311.797
5920.000	39.044	39.073	0.000	0.000	55312.521	63594.016	57135.746	64311.797
5980.000	40.215	40.228	0.000	0.000	57690.279	63594.016	59514.778	64311.797
6000.000	37.165	37.189	0.000	0.000	58464.081	63594.016	60288.949	64311.797
6020.000	34.682	34.706	0.000	0.000	59182.549	63594.016	61007.898	64311.797
6040.000	31.886	31.914	0.000	0.000	59848.220	63594.016	61674.089	64311.797
6060.000	28.781	28.798	0.000	0.000	60454.890	63594.016	62281.209	64311.797
6080.000	25.926	25.940	0.000	0.000	61001.960	63594.016	62828.593	64311.797

PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
6100.000	23.016	23.029	0.000	0.000	61491.379	63594.016	63318.283	64311.797
6120.000	20.238	20.262	0.000	0.000	61923.925	63594.016	63751.190	64311.797
6140.000	17.835	17.836	0.000	0.000	62304.655	63594.016	64132.171	64311.797
6160.000	16.168	16.172	0.000	0.000	62644.679	63594.016	64472.254	64311.797
6180.000	15.443	15.457	0.000	0.000	62960.783	63594.016	64788.546	64311.797
6200.000	0.000	0.000	18.278	18.303	63115.210	63776.793	64943.118	64494.824
6220.000	0.000	0.000	24.317	24.379	63115.210	64202.742	64943.118	64921.645
6240.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6260.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6280.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6300.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6340.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6360.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6380.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6400.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6420.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6440.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6460.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6480.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6500.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6520.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6540.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6560.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6580.000	0.000	0.000	0.000	0.000	63115.210	64445.914	64943.118	65165.440
6600.000	0.000	0.000	45.061	45.273	63115.210	64896.525	64943.118	65618.171
6620.000	0.000	0.000	31.040	31.101	63115.210	65657.539	64943.118	66381.911
6640.000	0.000	0.000	23.159	23.178	63115.210	66199.535	64943.118	66924.696
6660.000	5.470	5.471	10.186	10.188	63169.911	66532.984	64997.824	67258.353





PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
6680.000	16.797	16.801	0.000	0.000	63392.586	66634.841	65220.538	67360.235
6700.000	20.846	20.934	0.000	0.000	63769.023	66634.841	65597.888	67360.235
6720.000	24.900	25.110	0.000	0.000	64226.490	66634.841	66058.327	67360.235
6740.000	26.934	27.113	0.000	0.000	64744.832	66634.841	66580.552	67360.235
6760.000	28.586	28.822	0.000	0.000	65300.027	66634.841	67139.899	67360.235
6780.000	30.489	30.821	0.000	0.000	65890.778	66634.841	67736.330	67360.235
6800.000	31.947	32.339	0.000	0.000	66515.140	66634.841	68367.934	67360.235
9400.000	27.405	27.409	0.000	0.000	66789.191	66634.841	68642.027	67360.235
9420.000	24.516	24.519	0.000	0.000	67308.398	66634.841	69161.311	67360.235
9440.000	21.952	21.965	0.000	0.000	67773.079	66634.841	69626.151	67360.235
9460.000	19.683	19.713	0.000	0.000	68189.432	66634.841	70042.928	67360.235
9480.000	17.201	17.204	0.000	0.000	68558.268	66634.841	70412.097	67360.235
9500.000	13.750	13.752	0.000	0.000	68867.775	66634.841	70721.663	67360.235
9520.000	0.000	0.000	17.550	17.554	69005.274	66810.340	70859.188	67535.777
9540.000	0.000	0.000	22.061	22.064	69005.274	67206.444	70859.188	67931.964

PK	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	PLANTA	REAL	PLANTA	REAL				
9560.000	0.000	0.000	26.443	26.445	69005.274	67691.479	70859.188	68417.058
9580.000	0.000	0.000	31.748	31.755	69005.274	68273.391	70859.188	68999.062
9620.000	0.000	0.000	29.907	29.912	69005.274	69506.487	70859.188	70232.399
9640.000	0.000	0.000	27.193	27.198	69005.274	70077.484	70859.188	70803.492
9660.000	0.000	0.000	22.871	22.901	69005.274	70578.123	70859.188	71304.483
9680.000	9.339	9.363	4.860	4.872	69098.664	70855.434	70952.822	71582.217
9700.000	19.343	19.353	0.000	0.000	69385.487	70904.038	71239.984	71630.939
9720.000	26.306	26.326	0.000	0.000	69841.975	70904.038	71696.768	71630.939
9740.000	33.171	33.260	0.000	0.000	70436.737	70904.038	72292.627	71630.939
9760.000	39.492	39.670	0.000	0.000	71163.368	70904.038	73021.929	71630.939
9780.000	43.201	43.256	0.000	0.000	71990.298	70904.038	73851.188	71630.939
9800.000	46.634	46.687	0.000	0.000	72888.647	70904.038	74750.617	71630.939
9820.000	49.108	49.126	0.000	0.000	73846.069	70904.038	75708.745	71630.939

 1.1.2 RESUMEN DE LOS DESBROCES

AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
73846.069	70904.038	75708.745	71630.939



## 1.3 ÁREAS DE SIEMBRA

**SUPERFICIES DE SIEMBRA**

P.K.	ÁREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
40.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0	0	0	0
60.0	6.72	28.36	0.00	0.00	6.7	28.4	0.0	0.0	7	28	0	0
80.0	2.44	17.18	0.00	0.00	9.2	45.5	0.0	0.0	9	46	0	0
100.0	0.28	4.98	0.00	0.00	9.4	50.5	0.0	0.0	9	51	0	0
180.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	9	51	0	0
220.0	19.22	19.22	0.00	0.00	19.2	19.2	0.0	0.0	29	70	0	0
240.0	19.19	19.19	0.00	0.00	38.4	38.4	0.0	0.0	48	89	0	0
260.0	18.50	18.66	0.00	0.00	56.9	57.1	0.0	0.0	66	108	0	0
280.0	15.94	16.30	0.00	0.00	72.8	73.4	0.0	0.0	82	124	0	0
300.0	11.88	12.25	0.00	0.00	84.7	85.6	0.0	0.0	94	136	0	0
320.0	7.25	7.82	0.00	0.00	92.0	93.5	0.0	0.0	101	144	0	0
440.0	14.40	16.75	0.00	0.00	106.4	110.2	0.0	0.0	116	161	0	0
460.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	116	161	0	0
660.0	0.00	0.00	95.78	55.95	0.0	0.0	95.8	55.9	116	161	96	56
680.0	0.00	0.00	14.11	5.61	0.0	0.0	109.9	61.6	116	161	110	62
720.0	0.00	0.00	48.77	4.59	0.0	0.0	158.7	66.1	116	161	159	66
760.0	26.46	302.55	39.70	4.56	26.5	302.6	198.4	70.7	142	463	198	71
780.0	89.24	398.43	0.00	0.00	115.7	701.0	0.0	0.0	232	862	198	71
800.0	76.01	247.16	0.00	0.00	191.7	948.1	0.0	0.0	308	1109	198	71
820.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
840.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
860.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
880.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
900.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
920.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71

P.K.	ÁREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
940.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
960.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
980.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1000.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1020.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1040.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1060.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1080.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1100.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1120.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1140.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1160.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1180.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1200.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1220.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1240.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1260.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1280.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1300.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1320.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1340.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1360.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1380.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1400.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1420.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71



P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
1440.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	308	1109	198	71
1460.0	108.37	323.09	0.00	0.00	108.4	323.1	0.0	0.0	416	1432	198	71
1480.0	199.90	607.91	0.00	0.00	308.3	931.0	0.0	0.0	616	2040	198	71
1500.0	171.71	509.48	0.00	0.00	480.0	1440.5	0.0	0.0	787	2549	198	71
1520.0	146.85	422.47	0.00	0.00	626.8	1862.9	0.0	0.0	934	2972	198	71
1540.0	121.01	387.43	0.00	0.00	747.8	2250.4	0.0	0.0	1055	3359	198	71
1560.0	97.97	372.28	0.00	0.00	845.8	2622.7	0.0	0.0	1153	3732	198	71
1580.0	73.24	350.62	0.00	0.00	919.1	2973.3	0.0	0.0	1227	4082	198	71
1600.0	47.89	299.72	0.00	0.00	966.9	3273.0	0.0	0.0	1274	4382	198	71
1620.0	18.86	218.38	0.00	0.00	985.8	3491.4	0.0	0.0	1293	4600	198	71
1640.0	0.58	133.11	32.31	0.00	986.4	3624.5	32.3	0.0	1294	4733	231	71
1660.0	0.00	46.49	113.56	0.00	0.0	3671.0	145.9	0.0	1294	4780	344	71
1680.0	0.00	0.00	81.25	0.00	0.0	0.0	227.1	0.0	1294	4780	425	71
1700.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1720.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1740.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1760.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1780.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1800.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1820.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1840.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1860.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1880.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	1294	4780	425	71
1900.0	0.00	0.00	172.79	223.38	0.0	0.0	172.8	223.4	1294	4780	598	294
1920.0	0.00	0.00	248.45	366.69	0.0	0.0	421.2	590.1	1294	4780	847	661
1940.0	0.00	0.00	75.66	143.31	0.0	0.0	496.9	733.4	1294	4780	922	804
1960.0	66.99	68.04	0.00	0.00	67.0	68.0	0.0	0.0	1361	4848	922	804

P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
1980.0	189.40	225.87	0.00	0.00	256.4	293.9	0.0	0.0	1550	5074	922	804
2000.0	260.53	384.23	0.00	0.00	516.9	678.1	0.0	0.0	1811	5458	922	804
2020.0	271.66	561.51	0.00	0.00	788.6	1239.6	0.0	0.0	2082	6019	922	804
2040.0	275.98	717.52	0.00	0.00	1064.6	1957.2	0.0	0.0	2358	6737	922	804
2060.0	292.36	794.45	0.00	0.00	1356.9	2751.6	0.0	0.0	2651	7531	922	804
2080.0	282.89	830.41	0.00	0.00	1639.8	3582.0	0.0	0.0	2934	8362	922	804
2100.0	242.56	808.42	0.00	0.00	1882.4	4390.4	0.0	0.0	3176	9170	922	804
2120.0	191.37	773.63	0.00	0.00	2073.7	5164.1	0.0	0.0	3368	9944	922	804
2140.0	142.25	759.95	0.00	0.00	2216.0	5924.0	0.0	0.0	3510	10704	922	804
2160.0	103.33	705.59	0.00	0.00	2319.3	6629.6	0.0	0.0	3613	11409	922	804
2180.0	84.35	608.44	0.00	0.00	2403.7	7238.0	0.0	0.0	3698	12018	922	804
2200.0	90.06	567.64	0.00	0.00	2493.7	7805.7	0.0	0.0	3788	12586	922	804
2220.0	99.31	591.31	0.00	0.00	2593.0	8397.0	0.0	0.0	3887	13177	922	804
2240.0	104.38	602.54	0.00	0.00	2697.4	8999.5	0.0	0.0	3991	13779	922	804
2260.0	108.88	576.08	0.00	0.00	2806.3	9575.6	0.0	0.0	4100	14355	922	804
2280.0	107.16	517.77	0.00	0.00	2913.5	10093.4	0.0	0.0	4207	14873	922	804
2300.0	93.93	440.08	0.00	0.00	3007.4	10533.5	0.0	0.0	4301	15313	922	804
2320.0	66.57	350.64	0.00	0.00	3074.0	10884.1	0.0	0.0	4368	15664	922	804
2340.0	27.15	252.29	0.00	0.00	3101.1	11136.4	0.0	0.0	4395	15916	922	804
2360.0	2.62	169.21	89.12	0.00	3103.7	11305.6	89.1	0.0	4398	16085	1012	804
2380.0	0.00	100.18	425.12	0.00	0.0	11405.8	514.2	0.0	4398	16186	1437	804
2400.0	0.00	31.32	680.50	0.00	0.0	11437.1	1194.7	0.0	4398	16217	2117	804
2420.0	0.00	0.00	652.04	14.49	0.0	0.0	1846.8	14.5	4398	16217	2769	819
2440.0	0.00	0.00	589.50	36.77	0.0	0.0	2436.3	51.3	4398	16217	3359	855
2460.0	0.00	0.00	530.03	51.24	0.0	0.0	2966.3	102.5	4398	16217	3889	907
2480.0	0.00	0.00	445.38	77.37	0.0	0.0	3411.7	179.9	4398	16217	4334	984
2500.0	0.00	0.00	397.47	107.51	0.0	0.0	3809.1	287.4	4398	16217	4732	1091



P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
2520.0	0.00	0.00	411.10	138.52	0.0	0.0	4220.2	425.9	4398	16217	5143	1230
2540.0	0.00	0.00	395.05	176.31	0.0	0.0	4615.3	602.2	4398	16217	5538	1406
2560.0	0.00	0.00	324.46	207.23	0.0	0.0	4939.8	809.5	4398	16217	5862	1614
2580.0	0.00	0.00	233.15	199.87	0.0	0.0	5172.9	1009.3	4398	16217	6095	1813
2600.0	0.00	0.00	162.42	147.65	0.0	0.0	5335.3	1157.0	4398	16217	6258	1961
2620.0	0.00	0.00	122.15	84.83	0.0	0.0	5457.5	1241.8	4398	16217	6380	2046
2640.0	0.00	0.00	111.83	40.26	0.0	0.0	5569.3	1282.1	4398	16217	6492	2086
2660.0	0.00	0.00	121.12	28.58	0.0	0.0	5690.4	1310.6	4398	16217	6613	2115
2680.0	0.00	0.00	147.36	41.06	0.0	0.0	5837.8	1351.7	4398	16217	6760	2156
2700.0	0.00	0.00	130.27	71.14	0.0	0.0	5968.1	1422.8	4398	16217	6890	2227
2720.0	50.95	0.00	44.73	45.10	50.9	0.0	6012.8	1467.9	4449	16217	6935	2272
2740.0	134.48	55.77	0.00	0.00	185.4	55.8	0.0	0.0	4583	16273	6935	2272
2760.0	162.45	134.69	0.00	0.00	347.9	190.5	0.0	0.0	4746	16407	6935	2272
2780.0	153.21	132.00	0.00	0.00	501.1	322.5	0.0	0.0	4899	16539	6935	2272
2800.0	166.58	168.69	0.00	0.00	667.7	491.1	0.0	0.0	5065	16708	6935	2272
2820.0	175.30	226.52	0.00	0.00	843.0	717.7	0.0	0.0	5241	16935	6935	2272
2840.0	160.78	219.20	0.00	0.00	1003.8	936.9	0.0	0.0	5401	17154	6935	2272
2860.0	143.94	206.05	0.00	0.00	1147.7	1142.9	0.0	0.0	5545	17360	6935	2272
2880.0	119.24	182.42	0.00	0.00	1267.0	1325.3	0.0	0.0	5665	17542	6935	2272
2900.0	92.64	158.82	0.00	0.00	1359.6	1484.2	0.0	0.0	5757	17701	6935	2272
2920.0	70.49	135.08	0.00	0.00	1430.1	1619.2	0.0	0.0	5828	17836	6935	2272
2940.0	45.23	105.12	0.00	0.00	1475.3	1724.4	0.0	0.0	5873	17941	6935	2272
2960.0	14.32	70.98	0.00	0.00	1489.6	1795.3	0.0	0.0	5887	18012	6935	2272
2980.0	0.00	28.23	9.63	0.00	0.0	1823.6	9.6	0.0	5887	18041	6945	2272
3000.0	0.00	1.47	43.39	3.35	0.0	1825.0	53.0	3.3	5887	18042	6988	2275
3020.0	0.00	0.00	109.67	35.27	0.0	0.0	162.7	38.6	5887	18042	7098	2311
3040.0	0.00	0.00	203.64	98.01	0.0	0.0	366.3	136.6	5887	18042	7302	2409

P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
3060.0	0.00	0.00	317.12	175.09	0.0	0.0	683.5	311.7	5887	18042	7619	2584
3080.0	0.00	0.00	431.98	266.58	0.0	0.0	1115.4	578.3	5887	18042	8051	2850
3100.0	0.00	0.00	507.80	318.98	0.0	0.0	1623.2	897.3	5887	18042	8558	3169
3120.0	0.00	0.00	521.22	321.54	0.0	0.0	2144.5	1218.8	5887	18042	9080	3491
3140.0	0.00	0.00	460.56	281.66	0.0	0.0	2605.0	1500.5	5887	18042	9540	3773
3160.0	0.00	0.00	362.15	205.16	0.0	0.0	2967.2	1705.6	5887	18042	9902	3978
3180.0	0.00	0.00	272.36	159.86	0.0	0.0	3239.5	1865.5	5887	18042	10175	4138
3200.0	0.00	0.00	252.14	156.07	0.0	0.0	3491.7	2021.6	5887	18042	10427	4294
3220.0	0.00	0.00	262.22	179.46	0.0	0.0	3753.9	2201.0	5887	18042	10689	4473
3240.0	0.00	0.00	283.19	200.96	0.0	0.0	4037.1	2402.0	5887	18042	10972	4674
3260.0	0.00	0.00	335.73	215.86	0.0	0.0	4372.8	2617.9	5887	18042	11308	4890
3280.0	0.00	0.00	370.30	241.55	0.0	0.0	4743.1	2859.4	5887	18042	11678	5131
3300.0	0.00	0.00	403.53	270.30	0.0	0.0	5146.6	3129.7	5887	18042	12082	5402
3320.0	0.00	0.00	444.64	304.92	0.0	0.0	5591.3	3434.6	5887	18042	12526	5707
3340.0	0.00	0.00	497.76	350.14	0.0	0.0	6089.0	3784.8	5887	18042	13024	6057
3360.0	0.00	0.00	570.61	406.07	0.0	0.0	6659.6	4190.8	5887	18042	13595	6463
3380.0	0.00	0.00	671.44	460.67	0.0	0.0	7331.1	4651.5	5887	18042	14266	6924
3400.0	0.00	0.00	718.63	500.02	0.0	0.0	8049.7	5151.5	5887	18042	14985	7424
3420.0	0.00	0.00	715.41	509.80	0.0	0.0	8765.1	5661.3	5887	18042	15700	7933
3440.0	0.00	0.00	730.01	487.57	0.0	0.0	9495.1	6148.9	5887	18042	16430	8421
3460.0	0.00	0.00	678.65	438.29	0.0	0.0	10173.8	6587.2	5887	18042	17109	8859
3480.0	0.00	0.00	575.16	374.03	0.0	0.0	10748.9	6961.2	5887	18042	17684	9233
3500.0	0.00	0.00	509.30	314.99	0.0	0.0	11258.2	7276.2	5887	18042	18193	9548
3520.0	0.00	0.00	466.77	257.95	0.0	0.0	11725.0	7534.2	5887	18042	18660	9806
3540.0	0.00	0.00	423.46	190.00	0.0	0.0	12148.5	7724.2	5887	18042	19084	9996
3560.0	0.00	0.00	309.33	123.85	0.0	0.0	12457.8	7848.0	5887	18042	19393	10120
3580.0	0.00	0.00	191.04	69.98	0.0	0.0	12648.8	7918.0	5887	18042	19584	10190





P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
3600.0	0.00	0.00	139.15	24.77	0.0	0.0	12788.0	7942.8	5887	18042	19723	10215
3620.0	0.00	7.20	72.40	2.03	0.0	7.2	12860.4	7944.8	5887	18049	19796	10217
3640.0	3.97	51.91	15.78	0.00	4.0	59.1	12876.2	0.0	5891	18101	19811	10217
3660.0	30.24	113.72	0.00	0.00	34.2	172.8	0.0	0.0	5921	18215	19811	10217
3680.0	61.69	154.44	0.00	0.00	95.9	327.3	0.0	0.0	5983	18369	19811	10217
3700.0	82.41	177.63	0.00	0.00	178.3	504.9	0.0	0.0	6066	18547	19811	10217
3720.0	92.60	180.32	0.00	0.00	270.9	685.2	0.0	0.0	6158	18727	19811	10217
3740.0	74.69	144.92	0.00	0.00	345.6	830.1	0.0	0.0	6233	18872	19811	10217
3760.0	29.07	74.22	0.00	0.00	374.7	904.4	0.0	0.0	6262	18946	19811	10217
3780.0	0.00	17.42	0.00	0.00	0.0	921.8	0.0	0.0	6262	18964	19811	10217
3800.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3820.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3840.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3860.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3880.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3900.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3920.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3940.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3960.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
3980.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
4000.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
4020.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
4040.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
4060.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
4080.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
4100.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6262	18964	19811	10217
4120.0	0.00	0.00	55.95	1.08	0.0	0.0	55.9	1.1	6262	18964	19867	10218

P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
4140.0	8.92	33.45	55.95	1.08	8.9	33.4	111.9	2.2	6271	18997	19923	10219
4160.0	37.75	84.98	0.00	0.00	46.7	118.4	0.0	0.0	6309	19082	19923	10219
4180.0	62.18	100.12	0.00	0.00	108.8	218.5	0.0	0.0	6371	19182	19923	10219
4200.0	65.07	91.49	0.00	0.00	173.9	310.0	0.0	0.0	6436	19274	19923	10219
4220.0	63.14	84.91	0.00	0.00	237.1	395.0	0.0	0.0	6499	19359	19923	10219
4240.0	58.02	75.52	0.00	0.00	295.1	470.5	0.0	0.0	6557	19434	19923	10219
4260.0	43.80	55.62	0.00	0.00	338.9	526.1	0.0	0.0	6601	19490	19923	10219
4280.0	17.20	31.26	0.00	0.00	356.1	557.3	0.0	0.0	6618	19521	19923	10219
4300.0	0.00	9.13	17.18	3.03	0.0	566.5	17.2	3.0	6618	19530	19940	10222
4320.0	0.00	0.00	17.18	3.03	0.0	0.0	34.4	6.1	6618	19530	19958	10225
4340.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4360.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4380.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4400.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4420.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4440.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4460.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4480.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4500.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4520.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4540.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4560.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4580.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4600.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4640.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	6618	19530	19958	10225
4660.0	0.00	0.00	68.74	53.28	0.0	0.0	68.7	53.3	6618	19530	20026	10278
4680.0	0.00	0.00	128.51	87.82	0.0	0.0	197.2	141.1	6618	19530	20155	10366



P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
4700.0	0.00	0.00	118.75	65.33	0.0	0.0	316.0	206.4	6618	19530	20274	10431
4720.0	0.00	0.00	121.19	64.46	0.0	0.0	437.2	270.9	6618	19530	20395	10496
4740.0	0.00	0.00	127.54	70.50	0.0	0.0	564.7	341.4	6618	19530	20522	10566
4760.0	0.00	0.00	137.19	83.73	0.0	0.0	701.9	425.1	6618	19530	20659	10650
4780.0	0.00	0.00	165.48	111.90	0.0	0.0	867.4	537.0	6618	19530	20825	10762
4800.0	0.00	0.00	208.68	142.95	0.0	0.0	1076.1	680.0	6618	19530	21034	10905
4820.0	0.00	0.00	260.41	173.52	0.0	0.0	1336.5	853.5	6618	19530	21294	11079
4840.0	0.00	0.00	314.15	215.90	0.0	0.0	1650.6	1069.4	6618	19530	21608	11294
4860.0	0.00	0.00	359.48	237.95	0.0	0.0	2010.1	1307.4	6618	19530	21968	11532
4880.0	0.00	0.00	382.39	221.13	0.0	0.0	2392.5	1528.5	6618	19530	22350	11754
4900.0	0.00	0.00	369.15	194.40	0.0	0.0	2761.7	1722.9	6618	19530	22719	11948
4920.0	0.00	0.00	331.30	170.56	0.0	0.0	3093.0	1893.4	6618	19530	23051	12118
4940.0	0.00	0.00	269.65	140.24	0.0	0.0	3362.6	2033.7	6618	19530	23320	12259
4960.0	0.00	0.00	191.46	98.05	0.0	0.0	3554.1	2131.7	6618	19530	23512	12357
4980.0	0.00	0.00	123.68	49.51	0.0	0.0	3677.8	2181.3	6618	19530	23635	12406
5000.0	0.00	0.00	69.14	12.05	0.0	0.0	3746.9	2193.3	6618	19530	23704	12418
5020.0	0.00	0.00	21.13	0.00	0.0	0.0	3768.0	0.0	6618	19530	23726	12418
5040.0	0.00	4.00	0.00	0.00	0.0	4.0	0.0	0.0	6618	19534	23726	12418
5060.0	0.00	6.02	0.00	0.00	0.0	10.0	0.0	0.0	6618	19540	23726	12418
5080.0	0.00	2.02	1.65	0.00	0.0	12.0	1.6	0.0	6618	19542	23727	12418
5100.0	0.00	0.00	12.91	0.00	0.0	0.0	14.6	0.0	6618	19542	23740	12418
5120.0	0.00	0.00	51.79	1.25	0.0	0.0	66.3	1.3	6618	19542	23792	12420
5140.0	0.00	0.00	109.85	10.40	0.0	0.0	176.2	11.7	6618	19542	23902	12430
5160.0	0.00	0.00	111.46	9.15	0.0	0.0	287.7	20.8	6618	19542	24013	12439
5180.0	0.00	0.00	59.55	0.00	0.0	0.0	347.2	0.0	6618	19542	24073	12439
5200.0	0.00	0.00	20.75	0.00	0.0	0.0	368.0	0.0	6618	19542	24094	12439
5240.0	0.00	0.00	82.03	14.14	0.0	0.0	450.0	14.1	6618	19542	24176	12453

P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
5260.0	0.00	0.00	119.07	33.23	0.0	0.0	569.1	47.4	6618	19542	24295	12487
5280.0	0.00	0.00	201.54	62.65	0.0	0.0	770.6	110.0	6618	19542	24496	12549
5300.0	0.00	0.00	218.32	42.13	0.0	0.0	988.9	152.1	6618	19542	24715	12591
5320.0	0.00	26.31	98.17	5.63	0.0	26.3	1087.1	157.8	6618	19569	24813	12597
5340.0	28.74	98.85	0.00	0.00	28.7	125.2	0.0	0.0	6647	19667	24813	12597
5360.0	88.56	169.34	0.00	0.00	117.3	294.5	0.0	0.0	6735	19837	24813	12597
5380.0	135.62	202.07	0.00	0.00	252.9	496.6	0.0	0.0	6871	20039	24813	12597
5400.0	144.65	207.32	0.00	0.00	397.6	703.9	0.0	0.0	7016	20246	24813	12597
5420.0	121.99	187.71	0.00	0.00	519.6	891.6	0.0	0.0	7138	20434	24813	12597
5440.0	98.91	159.18	0.00	0.00	618.5	1050.8	0.0	0.0	7236	20593	24813	12597
5460.0	93.72	157.90	0.00	0.00	712.2	1208.7	0.0	0.0	7330	20751	24813	12597
5480.0	93.71	174.10	0.00	0.00	805.9	1382.8	0.0	0.0	7424	20925	24813	12597
5500.0	84.02	163.08	0.00	0.00	889.9	1545.9	0.0	0.0	7508	21088	24813	12597
5520.0	54.74	112.00	0.00	0.00	944.7	1657.9	0.0	0.0	7563	21200	24813	12597
5540.0	16.49	62.75	0.00	0.00	961.2	1720.6	0.0	0.0	7579	21263	24813	12597
5560.0	0.00	51.47	0.00	0.00	0.0	1772.1	0.0	0.0	7579	21314	24813	12597
5580.0	0.00	44.95	8.50	0.00	0.0	1817.0	8.5	0.0	7579	21359	24821	12597
5600.0	0.00	23.44	28.73	0.00	0.0	1840.5	37.2	0.0	7579	21383	24850	12597
5620.0	0.00	5.85	45.66	0.00	0.0	1846.3	82.9	0.0	7579	21389	24896	12597
5640.0	0.00	0.00	46.62	0.00	0.0	0.0	129.5	0.0	7579	21389	24942	12597
5660.0	0.00	0.00	45.57	0.00	0.0	0.0	175.1	0.0	7579	21389	24988	12597
5680.0	0.00	0.00	76.80	9.07	0.0	0.0	251.9	9.1	7579	21389	25065	12606
5700.0	0.00	0.00	135.02	42.84	0.0	0.0	386.9	51.9	7579	21389	25200	12649
5720.0	0.00	0.00	157.45	71.41	0.0	0.0	544.3	123.3	7579	21389	25357	12720
5740.0	0.00	5.42	101.80	37.65	0.0	5.4	646.1	161.0	7579	21394	25459	12758
5760.0	0.00	34.49	26.94	0.00	0.0	39.9	673.1	0.0	7579	21429	25486	12758
5780.0	14.37	77.98	0.00	0.00	14.4	117.9	0.0	0.0	7594	21507	25486	12758



P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
5800.0	53.39	109.16	0.00	0.00	67.8	227.0	0.0	0.0	7647	21616	25486	12758
5820.0	101.70	134.19	0.00	0.00	169.5	361.2	0.0	0.0	7749	21750	25486	12758
5840.0	152.70	159.36	0.00	0.00	322.2	520.6	0.0	0.0	7901	21909	25486	12758
5860.0	202.32	187.13	0.00	0.00	524.5	707.7	0.0	0.0	8104	22096	25486	12758
5880.0	244.58	222.74	0.00	0.00	769.1	930.5	0.0	0.0	8348	22319	25486	12758
5900.0	285.09	270.01	0.00	0.00	1054.2	1200.5	0.0	0.0	8633	22589	25486	12758
5920.0	330.83	323.72	0.00	0.00	1385.0	1524.2	0.0	0.0	8964	22913	25486	12758
5980.0	1079.77	1086.46	0.00	0.00	2464.8	2610.7	0.0	0.0	10044	23999	25486	12758
6000.0	336.44	359.07	0.00	0.00	2801.2	2969.7	0.0	0.0	10380	24358	25486	12758
6020.0	291.33	325.93	0.00	0.00	3092.5	3295.7	0.0	0.0	10672	24684	25486	12758
6040.0	253.48	289.11	0.00	0.00	3346.0	3584.8	0.0	0.0	10925	24973	25486	12758
6060.0	213.63	245.53	0.00	0.00	3559.6	3830.3	0.0	0.0	11139	25219	25486	12758
6080.0	174.64	200.22	0.00	0.00	3734.3	4030.5	0.0	0.0	11313	25419	25486	12758
6100.0	135.51	157.83	0.00	0.00	3869.8	4188.3	0.0	0.0	11449	25577	25486	12758
6120.0	95.55	117.35	0.00	0.00	3965.3	4305.7	0.0	0.0	11545	25694	25486	12758
6140.0	62.66	76.97	0.00	0.00	4028.0	4382.7	0.0	0.0	11607	25771	25486	12758
6160.0	37.86	44.19	0.00	0.00	4065.9	4426.9	0.0	0.0	11645	25815	25486	12758
6180.0	17.71	30.52	0.00	0.00	4083.6	4457.4	0.0	0.0	11663	25846	25486	12758
6200.0	4.76	14.23	22.08	5.29	4088.3	4471.6	22.1	5.3	11667	25860	25508	12763
6220.0	0.00	0.00	87.27	40.07	0.0	0.0	109.4	45.4	11667	25860	25595	12803
6240.0	0.00	0.00	65.19	34.77	0.0	0.0	174.5	80.1	11667	25860	25660	12838
6260.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6280.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6300.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6320.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6340.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6380.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838

P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
6400.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6420.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6440.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6460.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6480.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6500.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6520.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6540.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6560.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6580.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	11667	25860	25660	12838
6600.0	0.00	0.00	143.04	206.23	0.0	0.0	143.0	206.2	11667	25860	25803	13044
6620.0	0.00	0.00	217.94	312.09	0.0	0.0	361.0	518.3	11667	25860	26021	13356
6640.0	0.00	0.00	111.39	155.41	0.0	0.0	472.4	673.7	11667	25860	26133	13512
6660.0	0.00	0.00	36.49	49.55	0.0	0.0	508.9	723.3	11667	25860	26169	13561
6680.0	19.98	18.16	0.00	0.00	20.0	18.2	0.0	0.0	11687	25878	26169	13561
6700.0	61.27	72.28	0.00	0.00	81.3	90.4	0.0	0.0	11749	25951	26169	13561
6720.0	96.12	152.03	0.00	0.00	177.4	242.5	0.0	0.0	11845	26103	26169	13561
6740.0	124.25	209.99	0.00	0.00	301.6	452.5	0.0	0.0	11969	26313	26169	13561
6760.0	145.93	240.42	0.00	0.00	447.6	692.9	0.0	0.0	12115	26553	26169	13561
6780.0	160.53	276.11	0.00	0.00	608.1	969.0	0.0	0.0	12276	26829	26169	13561
6800.0	174.74	309.44	0.00	0.00	782.8	1278.4	0.0	0.0	12450	27139	26169	13561
6820.0	90.72	161.67	0.00	0.00	873.5	1440.1	0.0	0.0	12541	27300	26169	13561
6840.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
6860.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
6880.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
6900.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
6920.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561



P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
6940.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
6960.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
6980.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7000.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7020.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7040.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7060.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7080.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7100.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7120.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7140.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7160.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7180.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7220.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7240.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7260.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7280.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7300.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7320.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7340.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7360.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7380.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7400.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7420.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7440.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7460.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7480.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561

P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
7500.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7520.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7540.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7560.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7580.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7600.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7620.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7640.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7660.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7680.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7700.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7720.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7740.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7760.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7780.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7800.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7820.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7840.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7860.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7880.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7900.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7920.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7940.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7960.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
7980.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8000.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8020.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561





P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
8040.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8060.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8080.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8100.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8120.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8140.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8160.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8180.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8200.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8220.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8240.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8260.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8280.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8300.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8320.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8340.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8360.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8380.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8400.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8420.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8440.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8460.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8480.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8500.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8520.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8540.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8560.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561

P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
8580.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8600.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8620.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8640.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8660.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8680.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8700.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8740.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8760.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8780.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8800.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8820.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8840.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8860.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8880.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8920.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8940.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8960.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
8980.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9000.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9020.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9040.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9060.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9080.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9100.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9120.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9140.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561



P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
9160.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9180.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9200.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9220.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9240.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9260.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9280.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9300.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9320.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9340.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9360.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9380.0	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	12541	27300	26169	13561
9400.0	96.33	91.83	0.00	0.00	96.3	91.8	0.0	0.0	12637	27392	26169	13561
9420.0	170.15	165.32	0.00	0.00	266.5	257.1	0.0	0.0	12808	27557	26169	13561
9440.0	125.75	132.60	0.00	0.00	392.2	389.7	0.0	0.0	12933	27690	26169	13561
9460.0	83.90	106.10	0.00	0.00	476.1	495.8	0.0	0.0	13017	27796	26169	13561
9480.0	51.49	71.32	0.00	0.00	527.6	567.2	0.0	0.0	13069	27868	26169	13561

P.K.	AREAS PARCIALES				SUPERFICIE POR ZONAS				SUPERFICIE ACUMULADA			
	DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN		DESMONTE		TERRAPLÉN	
	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr	Iz	Dr
9500.0	19.52	25.39	0.00	0.00	547.1	592.5	0.0	0.0	13088	27893	26169	13561
9520.0	0.00	1.06	12.83	5.80	0.0	593.6	12.8	5.8	13088	27894	26182	13567
9540.0	0.00	0.00	52.16	39.31	0.0	0.0	65.0	45.1	13088	27894	26234	13606
9560.0	0.00	0.00	103.61	94.74	0.0	0.0	168.6	139.8	13088	27894	26338	13701
9580.0	0.00	0.00	164.98	149.80	0.0	0.0	333.6	289.6	13088	27894	26503	13851
9620.0	0.00	0.00	361.78	351.03	0.0	0.0	695.4	640.7	13088	27894	26865	14202
9640.0	0.00	0.00	149.25	152.41	0.0	0.0	844.6	793.1	13088	27894	27014	14354
9660.0	0.00	0.00	118.44	98.66	0.0	0.0	963.1	891.7	13088	27894	27132	14453
9680.0	0.00	0.00	49.39	33.19	0.0	0.0	1012.4	924.9	13088	27894	27182	14486
9700.0	36.00	38.15	0.00	0.00	36.0	38.2	0.0	0.0	13124	27932	27182	14486
9720.0	119.45	127.31	0.00	0.00	155.5	165.5	0.0	0.0	13244	28059	27182	14486
9740.0	208.27	234.04	0.00	0.00	363.7	399.5	0.0	0.0	13452	28293	27182	14486
9760.0	285.49	343.31	0.00	0.00	649.2	742.8	0.0	0.0	13737	28637	27182	14486
9780.0	353.83	416.82	0.00	0.00	1003.0	1159.6	0.0	0.0	14091	29054	27182	14486
9800.0	409.20	462.45	0.00	0.00	1412.3	1622.1	0.0	0.0	14500	29516	27182	14486
9820.0	455.14	500.05	0.00	0.00	1867.4	2122.1	0.0	0.0	14956	30016	27182	14486

### 1.1.3 RESUMEN DESBROCE

AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
73846.069	70904.038	75708.745	71630.939



## 1.4 RESÚMENES Y OTROS

MATERIAL	VOLUMEN
CAPA DE FORMA	68091.0
FIRME	142371.1
REVESTIMIENTO	53487.6
SUBBALASTO	34994.3
REVESTIMIENTO CUNETA	382.9
D TIERRA	403118.4
SUELO SEL 1	28896.5
TERRAPLEN	304668.7
BALASTO	39285.9
EXC TUNEL T	814332.7



## 2. MEDICIONES





CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
<b>CAPÍTULO 01 ACTUACIONES PREVIAS</b>							
1.1	<b>m² DESPEJE Y DESBROCE DEL TERRENO</b> m². Despeje y desbroce del terreno por medios mecánicos incluso carga y transporte de productos a vertedero o gestor autorizado hasta una distancia de 60 km. Desmante + Terraplén (Según mediciones auxiliares)	1	147.338,00	1,00	1,00	147.338,00	
							147.338,00
1.2	<b>m³ DEMOLICIÓN COMPLETA EDIFICIO A MÁQUINA</b> m3. Demolición, sobre rasante, de elementos varios de un edificio estructuralmente aislado, mediante empuje de máquina hasta 2/3 de la altura de ataque de la misma, irriego de escombros, carga mecánica de estos sobre camión, transporte a vertedero y p.p. de costes indirectos, según NTE/ADD-20. Edificio 1 Edificio 2 Edificio 3 Edificio 4 Edificio 5 Edificio 6	1 1 1 1 1 1	11,26 10,52 5,20 17,30 9,50 8,15	13,40 8,41 9,36 15,91 5,99 7,45	6,50 5,70 5,74 6,10 5,50 6,10	980,75 504,30 279,38 1.678,98 312,98 370,38	
							4.126,77
1.3	<b>m² DEMOLICIÓN O.F. HORMIGÓN ARMADO</b> m2. Demolición de obra de fábrica de hormigón armado, incluso corte de acero y retirada del material resultante a vertedero.						7.806,00
1.4	<b>m LEVANTE Y DESGÜACE DE VÍA</b> m. Levante y desguace de vía de cualquier tipo, incluyendo retirada de balasto a vertedero y acopio y clasificación de carriles, travessías, pequeño material y posterior carga sobre vagón.						350,00

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
<b>CAPÍTULO 02 MOVIMIENTO DE TIERRAS</b>							
2.2	<b>m³ TERRAPLEN PROCEDENTE EXCAVACIÓN</b> m³. Terraplén procedente de excavación incluso extensión, humectación y compactación hasta el 95% P.M. utilizando rodillo vibratorio. Según mediciones auxiliares		304668,7			304.668,70	
							304.668,70
2.3	<b>m³ DESMONTE TERRENO SIN CLASIFICAR</b> m³. Desmante en terreno sin clasificar de la explanación, con empleo de medios mecánicos y explosivos, incluso transporte de los productos de la excavación a vertedero o lugar de empleo, a cualquier distancia. Según mediciones auxiliares		403118,4			403.118,40	
							403.118,40



CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
<b>CAPÍTULO 03 DRENAJE</b>							
03.1	m DRENAJE LONGITUDINAL Ud. Drenaje longitudinal de línea férrea en superficie. Incluye cunetas de plataforma, bajantes, arquetas, pasos de cunetas, desagüe de puntos singulares y conexiones transversales						9.820,00
03.2	Ud EMBOQUILLE CON ALETAS Ud. Emboquille de hormigón armado HA-25 para obras de drenaje de 1800 mm de diámetro, incluso armaduras, encofrado, impermeabilización de paramentos soterrados, hormigón de HM-15 de 10 cm de grueso, excavación relleno y compactación, así como parte proporcional de costes indirectos.						
	ODT1	2					2,00
	ODT2	2					2,00
	ODT3	2					2,00
	ODT 4	2					2,00
03.3	m TUBO PARA ODT m. Tubo de hormigón armado de diámetro 1500 mm sobre cama de hormigón estructural HNE-20 de 10cm de espesor clase 90 con unión elástica y junta de goma i/suministro, transporte a obra y colocación						8,00
	ODT 1	17,98					17,98
	ODT 2	24,1					24,10
	ODT 3	16,77					16,77
	ODT 4	15,12					15,12
							73,97

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
<b>CAPÍTULO 04 SUPERESTRUCTURA DE LA VÍA</b>							
04.01	m³ BALASTO Balasto tipo I, colocado y compactado en intervalo programado, incluso transporte, acopios y cargas intermedias necesarias. Según mediciones auxiliares		39285,9				39.285,90
04.02	ml VÍA ÚNICA Y TRAVIESA POLIVALENTE SOBRE BALASTO Suministro y montaje de vía en ancho de vía 1,668 metros, con carril UIC-60, traviesas monobloque polivalente PR-01 y sujeciones SKL-1, rectificadas y primera nivelación.		2	9.820,00			19.640,00
04.03	ml LIBERACIÓN DE TENSIONES EN VÍA Liberación de tensiones en vía, ambos hilos, incluso cortes y soldaduras aluminotérmicas necesarias.						19.640,00
	TRONCO	2	9.470,00				18.940,00
	MODIFICACIÓN FFCC	2	350,00				700,00
04.04	ml SEGUNDA NIVELACIÓN DE VÍA ml. Segunda nivelación, incluso alineación y perfilado de vía.		2	9.470,00			18.940,00
	TRONCO	2	9.470,00				18.940,00
	MODIFICACIÓN FFCC	2	350,00				700,00
04.05	ml AMOLADO DE VÍA ml. Amolado de vía.		2	9.470,00			18.940,00
	TRONCO	2	9.470,00				18.940,00
	MODIFICACIÓN FFCC	2	350,00				700,00
04.06	m³ SUB-BALASTO m³. Sub-balasto bajo vía según especificaciones RENFE, extendido.						19.640,00
04.07	m REPLANTEO Y PIQUETADO DE LA VÍA m. Replanteo y piquetado de vía incluyendo suministro y colocación de piquetes, totalmente terminado.		2	9.470,00			18.940,00
	TRONCO	2	9.470,00				18.940,00
	MODIFICACIÓN FFCC	2	350,00				700,00
04.08	m³ CAPA DE FORMA CON MAT PROCEDENTE DE LA EXCAV DE LA TRAZA m3. Relleno con material seleccionado de 40 cm incluso extensión, humectación y compactación mediante compactador vibratorio para mejorar la explanada.						19.640,00
							68.091,00



CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
<b>CAPÍTULO 05 ESTRUCTURAS</b>							
05.01	<b>m2 ESTRUCTURA DE HASTA 20 METROS DE ALTURA DE PILA</b>						
	M2. Viaducto para ferrocarril constituido por losa de hormigón in situ aligerada con pilas de hasta 20 metros de altura.						
	VIADUCTO 1	1	219,80	13,00		2.857,40	
							2.857,40
05.02	<b>m2 ESTRUCTURA DE 20 A 40 METROS DE ALTURA DE PILA</b>						
	M2. Viaducto para ferrocarril constituido por losa de hormigón in situ aligerada con pilas de 20 a 40 metros de altura.						
	VIADUCTO 2	1	325,00	13,00		4.225,00	
	VIADUCTO 3	1	345,00	13,00		4.485,00	
	VIADUCTO4	1	358,00	13,00		4.654,00	
							13.364,00
05.04	<b>m2 ESTRUCTURA EN PASOS SUPERIORES</b>						
	m2. Paso superior						
	P.S.-0	1	25,00	13,00		325,00	
	P.S.-1	1	25,00	13,00		325,00	
	P.S.-2	1	25,00	13,00		325,00	
	P.S.-3	1	25,00	13,00		325,00	
	P.S.-4	1	25,00	13,00		325,00	
							1.625,00
05.03	<b>m2 ESTRUCTURA EN PASOS INFERIORES</b>						
	m2. Paso inferior						
	P.I.-1	1	25,00	13,00		325,00	
	P.I.-2	1	25,00	13,00		325,00	
							650,00

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
<b>CAPÍTULO 06 TÚNELES</b>							
16.1	<b>ml TÚNEL VÍA DOBLE</b>						
	ml. Túnel para vía doble ejecutado en mina. Incluye la excavación, el sostenimiento, el revestimiento y la contrabóveda.						
	TÚNEL - 1	1	670,89			670,89	
	TÚNEL - 2	1	2.586,70			2.586,70	
							3.257,59



CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
<b>CAPÍTULO 07 INSTALACIONES</b>							
07.1	ml <b>INSTALACIONES DE SEÑALIZACIÓN EN VÍA DOBLE</b>						
	Ud. Suministro y montaje de las instalaciones de señalización para vía doble de ancho internacional.	1	9.820,00			9.820,00	
							9.820,00
07.2	ml <b>INSTALACIONES DE TELECOMUNICACIÓN EN VÍA DOBLE</b>						
	Suministro y montaje de las instalaciones de comunicaciones para vía doble de ancho internacional	1	9.820,00			9.820,00	
							9.820,00

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
<b>CAPÍTULO 08 OBRAS COMPLEMENTARIAS</b>							
08.01	ml <b>CERRAMIENTOS</b>						
	ml Cerramiento metálico de la línea, incluso puertas de acceso cada 2 ó 3 kilómetros.						
	TRONCO	1	9.470,00			9.470,00	
	ESTACIÓN FFCC.	1	350,00			350,00	
							9.820,00
08.03	m2 <b>REPOSICIÓN DE CARRETERAS PRINCIPALES (SIN ESTRUCTURA)</b>						
	ml. Reposición de firmes en carreteras principales sin estructura afectadas por el trazado de la línea consistente en el fresado de firme bituminoso y reposición del mismo, incluyendo riegos, betún y filler así como compactado, totalmente terminada.						
	CARRETERA 1	1	105,36	9,00		948,24	
							948,24
08.04	m2 <b>REPOSICIÓN DE CARRETERAS SECUNDARIAS (SIN ESTRUCTURA)</b>						
	ml. Reposición de carreteras secundarias sin estructura afectadas por el trazado de la línea, que comprende las labores de fresado de firme bituminoso, riegos, filler y compactación, totalmente colocada, i p.p. de costes indirectos.						
	Carretera 1	1	2.212,54	7,50		16.594,05	
							16.594,05
08.02	m2 <b>REPOSICIÓN DE CAMINOS</b>						
	ml. Reposición de caminos de servicio afectados por el trazado de la línea que incluye rasanteo y colocación de firme de hormigón en masa, incluyendo parte proporcional de costes indirectos.						
	Camino 1	1	3.848,88	5,00		19.244,40	
							19.244,40
08.05	UD <b>CREACIÓN DE ROTONDA</b>						
	Ud. Partida alzada para la creación de rotonda y retranqueo de entradas a la misma a la altura del pk. 0+780.						
							1,00



CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
--------	---------	-----	----------	---------	--------	-----------	----------

**CAPÍTULO 09 ORDENACIÓN ECOLÓGICA, ESTÉTICA Y PAISAJÍSTICA**

09.1	m <sup>2</sup> HIDROSIEMBRA EN TALUDES						
	m <sup>2</sup> . hidrosiembra en taludes a base de 20 gr. de semilla de Pratenses, 5 gr. de Arbustivas, 300 gr. de Mulch, 40 gr. de abono, 20 gr. de estabilizador, incluso colocación de manta orgánica biodegradable de coco de 400 g/m <sup>2</sup> .						
	Superficie en desmonte	75708,745				75.708,75	
	Superficie en terraplén	71630,939				71.630,94	
							147.339,69
09.2	m <sup>2</sup> EXTENDIDO TIERRA VEGETAL						
	Extensión de una capa de 30 centímetros de tierra vegetal.						
	Superficie en desmonte	75708,745				75.708,75	
	Superficie en terraplén	71630,939				71.630,94	
							147.339,69
09.4	PA MEDIDAS DE PROTECCIÓN DEL PATRIMONIO						
	u. Partida alzada de abono íntegro para medidas de protección del patrimonio.						1,00

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
--------	---------	-----	----------	---------	--------	-----------	----------

**CAPÍTULO 10 LIMPIEZA Y TERMINACIÓN DE OBRAS**

10.01	UD P.A. Limpieza y terminación de obras						
	Partida alzada de abono íntegro calculada según la orden circular 15/2003 sobre señalización de los tramos afectados por la puesta en servicio de las obras -Remate de obras-						1,00





CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
--------	---------	-----	----------	---------	--------	-----------	----------

**CAPÍTULO 11 GESTIÓN DE RESIDUOS**

11.1 Gestión de Residuos

U. Partida alzada a justificar según el anexo correspondiente destinada al pago de las tareas de gestión de residuos durante la obra.

1,00

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
--------	---------	-----	----------	---------	--------	-----------	----------

**CAPÍTULO 12 SEGURIDAD Y SALUD**

12.1 UD Seguridad y Salud

Partida alzada a justificar según el anejo correspondiente destinada al pago de las tareas de seguridad y salud durante la obra.

1,00



CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
--------	---------	-----	----------	---------	--------	-----------	----------

**CAPÍTULO 13 REPOSICIÓN DE SERVICIOS**

13.1 UD PARTIDA ALZADA SERVICIOS AFECTADOS

Ud. Partida alzada a justificar en reposición de servicios.

1,00



### 3. PRESUPUESTO



CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE	CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE
<b>CAPÍTULO 01 ACTUACIONES PREVIAS</b>					<b>CAPÍTULO 02 MOVIMIENTO DE TIERRAS</b>				
1.1	m <sup>2</sup> DESPEJE Y DESBROCE DEL TERRENO m <sup>2</sup> . Despeje y desbroce del terreno por medios mecánicos incluso carga y transporte de productos a vertedero o gestor autorizado hasta una distancia de 60 km.	147.338,00	0,57	83.982,66	2.2	m <sup>3</sup> TERRAPLEN PROCEDENTE EXCAVACIÓN m <sup>3</sup> . Terraplén procedente de excavación incluso extensión, humectación y compactación hasta el 95% P.M. utilizando rodillo vibratorio.	304.668,70	0,91	277.248,52
1.2	m <sup>3</sup> DEMOLICIÓN COMPLETA EDIFICIO A MÁQUINA m3. Demolición, sobre rasante, de elementos varios de un edificio estructuralmente aislado, mediante empuje de máquina hasta 2/3 de la altura de ataque de la misma, i/riego de escombros, carga mecánica de estos sobre camión, transporte a vertedero y p.p. de costes indirectos, según NTE/ADD-20.	4.126,77	4,16	17.167,36	2.3	m <sup>3</sup> DESMONTE TERRENO SIN CLASIFICAR m <sup>3</sup> .Desmorte en terreno sin clasificar de la explanación, con empleo de medios mecánicos y explosivos, incluso transporte de los productos de la excavación a vertedero o lugar de empleo, a cualquier distancia.	403.118,40	2,64	1.064.232,58
1.3	m <sup>2</sup> DEMOLICIÓN O.F. HORMIGÓN ARMADO m2. Demolición de obra de fábrica de hormigón armado, incluso corte de acero y retirada del material resultante a vertedero.	7.806,00	21,66	169.077,96	<b>TOTAL CAPÍTULO 02 MOVIMIENTO DE TIERRAS..... 1.341.481,10</b>				
1.4	m LEVANTE Y DESGÜACE DE VÍA m. Levante y desguace de vía de cualquier tipo, incluyendo retirada de balasto a vertedero y acopio y clasificación de carriles, travесías, pequeño material y posterior carga sobre vagón.	350,00	9,92	3.472,00					
<b>TOTAL CAPÍTULO 01 ACTUACIONES PREVIAS .....</b>				<b>273.699,98</b>					



CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE	CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE
<b>CAPÍTULO 03 DRENAJE</b>					<b>CAPÍTULO 04 SUPERESTRUCTURA DE LA VÍA</b>				
03.1	m DRENAJE LONGITUDINAL Ud. Drenaje longitudinal de línea férrea en superficie. Incluye cunetas de plataforma, bajantes, arquetas, pasos de cunetas, desagüe de puntos singulares y conexiones transversales	9.820,00	6,61	64.910,20	04.01	m <sup>3</sup> BALASTO Balasto tipo I, colocado y compactado en intervalo programado, incluso transporte, acopios y cargas intermedias necesarias.	39.285,90	28,45	1.117.683,86
03.2	Ud EMBOQUILLE CON ALETAS Ud. Emboquille de hormigón armado HA-25 para obras de drenaje de 1800 mm de diámetro, incluso armaduras, encofrado, impermeabilización de paramentos soterrados, hormigón de HM-15 de 10 cm de grueso, excavación relleno y compactación, así como parte proporcional de costes indirectos.	8,00	2.963,23	23.705,84	04.02	ml VÍA ÚNICA Y TRAVIESA POLIVALENTE SOBRE BALASTO Suministro y montaje de vía en ancho de vía 1,668 metros, con carril UIC-60, traviesas monobloque polivalente PR-01 y sujeciones SKL-1, rectificado y primera nivelación.	19.640,00	281,10	5.520.804,00
03.3	m TUBO PARA ODT m. Tubo de hormigón armado de diámetro 1500 mm sobre cama de hormigón estructural HNE-20 de 10cm de espesor clase 90 con unión elástica y junta de goma i/suministro, transporte a obra y colocación	73,97	324,68	24.016,58	04.03	ml LIBERACIÓN DE TENSIONES EN VÍA Liberación de tensiones en vía, ambos hilos, incluso cortes y soldaduras aluminotérmicas necesarias.	19.640,00	3,00	58.920,00
	<b>TOTAL CAPÍTULO 03 DRENAJE .....</b>			<b>112.632,62</b>	04.04	ml SEGUNDA NIVELACIÓN DE VÍA ml. Segunda nivelación, incluso alineación y perfilado de vía.	19.640,00	2,55	50.082,00
					04.05	ml AMOLADO DE VÍA ml. Amolado de vía.	19.640,00	8,10	159.084,00
					04.06	m <sup>3</sup> SUB-BALASTO m <sup>3</sup> . Sub-balasto bajo vía según especificaciones RENFE, extendido.	34.994,30	16,41	574.256,46
					04.07	m REPLANTEO Y PIQUETADO DE LA VÍA m. Replanteo y piquetado de vía incluyendo suministro y colocación de piquetes, totalmente terminado.	19.640,00	3,19	62.651,60
					04.08	m <sup>3</sup> CAPA DE FORMA CON MAT PROCEDENTE DE LA EXCAV DE LA TRAZA m3. Relleno con material seleccionado de 40 cm incluso extensión, humectación y compactación mediante compactador vibratorio para mejorar la explanada.	68.091,00	2,58	175.674,78
						<b>TOTAL CAPÍTULO 04 SUPERESTRUCTURA DE LA VÍA .....</b>			<b>7.719.156,70</b>





CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE	CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE
<b>CAPÍTULO 05 ESTRUCTURAS</b>					<b>CAPÍTULO 06 TÚNELES</b>				
05.01	m2 ESTRUCTURA DE HASTA 20 METROS DE ALTURA DE PILA M2. Viaducto para ferrocarril constituido por losa de hormigón in situ aligerada con pilas de hasta 20 metros de altura.	2.857,40	575,00	1.643.005,00	16.1	ml TÚNEL VÍA DOBLE ml. Túnel para vía doble ejecutado en mina. Incluye la excavación, el sostenimiento, el revestimiento y la contrabóveda.	3.257,59	12.000,00	39.091.080,00
05.02	m2 ESTRUCTURA DE 20 A 40 METROS DE ALTURA DE PILA M2. Viaducto para ferrocarril constituido por losa de hormigón in situ aligerada con pilas de 20 a 40 metros de altura.	13.364,00	625,00	8.352.500,00	<b>TOTAL CAPÍTULO 06 TÚNELES..... 39.091.080,00</b>				
05.04	m2 ESTRUCTURA EN PASOS SUPERIORES m2. Paso superior	1.625,00	575,00	934.375,00					
05.03	m2 ESTRUCTURA EN PASOS INFERIORES m2. Paso inferior	650,00	700,00	455.000,00					
<b>TOTAL CAPÍTULO 05 ESTRUCTURAS.....</b>				<b>11.384.880,00</b>					



CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE	CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE
<b>CAPÍTULO 07 INSTALACIONES</b>					<b>CAPÍTULO 08 OBRAS COMPLEMENTARIAS</b>				
07.1	ml INSTALACIONES DE SEÑALIZACIÓN EN VÍA DOBLE Ud. Suministro y montaje de las instalaciones de señalización para vía doble de ancho internacional.	9.820,00	150,00	1.473.000,00	08.01	ml CERRAMIENTOS ml Cerramiento metálico de la línea, incluso puertas de acceso cada 2 ó 3 kilómetros.	9.820,00	26,50	260.230,00
07.2	ml INSTALACIONES DE TELECOMUNICACIÓN EN VÍA DOBLE Suministro y montaje de las instalaciones de comunicaciones para vía doble de ancho internacional	9.820,00	150,00	1.473.000,00	08.03	m2 REPOSICIÓN DE CARRETERAS PRINCIPALES (SIN ESTRUCTURA) ml. Reposición de firmes en carreteras principales sin estructura afectadas por el trazado de la línea consistente en el fresado de firme bituminoso y reposición del mismo, incluyendo riegos, betún y filler así como compactado, totalmente terminada.	948,24	60,25	57.131,46
	<b>TOTAL CAPÍTULO 07 INSTALACIONES .....</b>			<b>2.946.000,00</b>	08.04	m2 REPOSICIÓN DE CARRETERAS SECUNDARIAS (SIN ESTRUCTURA) ml. Reposición de carreteras secundarias sin estructura afectadas por el trazado de la línea, que comprende las labores de fresado de firme bituminoso, riegos, filler y compactación, totalmente colocada, i.p.p. de costes indirectos.	16.594,05	24,75	410.702,74
					08.02	m2 REPOSICIÓN DE CAMINOS ml. Reposición de caminos de servicio afectados por el trazado de la línea que incluye rasanteo y colocación de firme de hormigón en masa, incluyendo parte proporcional de costes indirectos.	19.244,40	31,09	598.308,40
					08.05	UD CREACIÓN DE ROTONDA Ud. Partida alzada para la creación de rotonda y retranqueo de entradas a la misma a la altura del pk. 0+780.	1,00	235.500,00	235.500,00
						<b>TOTAL CAPÍTULO 08 OBRAS COMPLEMENTARIAS .....</b>			<b>1.561.872,60</b>



CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE	CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE
<b>CAPÍTULO 09 ORDENACIÓN ECOLÓGICA, ESTÉTICA Y PAISAJÍSTICA</b>					<b>CAPÍTULO 10 LIMPIEZA Y TERMINACIÓN DE OBRAS</b>				
09.1	m <sup>2</sup> HIDROSIEMBRA EN TALUDES m <sup>2</sup> . hidrosiembra en taludes a base de 20 gr. de semilla de Pratenses, 5 gr. de Arbustivas, 300 gr. de Mulch, 40 gr. de abono, 20 gr. de estabilizador, incluso colocación de manta orgánica biodegradable de coco de 400 g/m <sup>2</sup> .	147.339,69	2,55	375.716,21	10.01	UD P.A. Limpieza y terminación de obras Partida alzada de abono íntegro calculada según la orden circular 15/2003 sobre señalización de los tramos afectados por la puesta en servicio de las obras -Remate de obras-	1,00	50.000,00	50.000,00
09.2	m <sup>2</sup> EXTENDIDO TIERRA VEGETAL Extensión de una capa de 30 centímetros de tierra vegetal.	147.339,69	0,78	114.924,96	<b>TOTAL CAPÍTULO 10 LIMPIEZA Y TERMINACIÓN DE OBRAS ..... 50.000,00</b>				
09.4	PA MEDIDAS DE PROTECCIÓN DEL PATRIMONIO u. Partida alzada de abono íntegro para medidas de protección del patrimonio.	1,00	57.080,10	57.080,10					
<b>TOTAL CAPÍTULO 09 ORDENACIÓN ECOLÓGICA, ESTÉTICA Y PAISAJÍSTICA.....</b>				<b>547.721,27</b>					



CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE	CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE
<b>CAPÍTULO 11 GESTIÓN DE RESIDUOS</b>					<b>CAPÍTULO 12 SEGURIDAD Y SALUD</b>				
11.1	Gestión de Residuos				12.1	UD Seguridad y Salud			
	U. Partida alzada a justificar según el anexo correspondiente destinada al pago de las tareas de gestión de residuos durante la obra.	1,00	400.000,00	400.000,00		Partida alzada a justificar según el anejo correspondiente destinada al pago de las tareas de seguridad y salud durante la obra.	1,00	1.280.835,20	1.280.835,20
	<b>TOTAL CAPÍTULO 11 GESTIÓN DE RESIDUOS .....</b>			<b>400.000,00</b>		<b>TOTAL CAPÍTULO 12 SEGURIDAD Y SALUD .....</b>			<b>1.280.835,20</b>



CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE
<b>CAPÍTULO 13 REPOSICIÓN DE SERVICIOS</b>				
13.1	UD PARTIDA ALZADA SERVICIOS AFECTADOS			
	Ud. Partida alzada a justificar en reposición de servicios.	1,00	80.000,00	80.000,00
	<b>TOTAL CAPÍTULO 13 REPOSICIÓN DE SERVICIOS.....</b>			<b>80.000,00</b>
	<b>TOTAL .....</b>			<b>66.789.359,47</b>





## 4. RESUMEN DEL PRESUPUESTO



**RESUMEN DEL PRESUPUESTO**

**Línea de alta velocidad Lugo – Ourense. Tramo: Sarria - Oural**

CAPITULO	RESUMEN	EUROS	%
01	ACTUACIONES PREVIAS.....	273.699,98	0,41
02	MOVIMIENTO DE TIERRAS.....	1.341.481,10	2,01
03	DRENAJE.....	112.632,62	0,17
04	SUPERESTRUCTURA DE LA VÍA.....	7.719.156,70	11,56
05	ESTRUCTURAS.....	11.384.880,00	17,05
06	TÚNELES.....	39.091.080,00	58,53
07	INSTALACIONES.....	2.946.000,00	4,41
08	OBRAS COMPLEMENTARIAS.....	1.561.872,60	2,34
09	ORDENACIÓN ECOLÓGICA, ESTÉTICA Y PAISAJÍSTICA.....	547.721,27	0,82
10	LIMPIEZA Y TERMINACIÓN DE OBRAS.....	50.000,00	0,07
11	GESTIÓN DE RESIDUOS.....	400.000,00	0,60
12	SEGURIDAD Y SALUD.....	1.280.835,20	1,92
13	REPOSICIÓN DE SERVICIOS.....	80.000,00	0,12

<b>TOTAL EJECUCIÓN MATERIAL</b>		<b>66.789.359,47</b>
13,00 % Gastos generales.....	8.682.616,73	
6,00 % Beneficio industrial.....	4.007.361,57	
SUMA DE G.G. y B.I.		12.689.978,30
<b>TOTAL PRESUPUESTO BASE DE LICITACIÓN SIN IVA</b>		<b>79.479.337,77</b>
21,00 % I.V.A.....	16.690.660,93	
<b>TOTAL PRESUPUESTO BASE DE LICITACIÓN CON IVA</b>		<b>96.169.998,70</b>

Asciende el presupuesto general a la expresada cantidad de NOVENTA Y SEIS MILLONES CIENTO SESENTA Y NUEVE MIL NOVECIENTOS NOVENTA Y OCHO EUROS con SETENTA CÉNTIMOS

En A Coruña

Diciembre de 2019

