



MOVIMIENTOS DE TIERRAS



Istram 9.04 18/02/20 10:33:38 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 1: BORDILLO MEDIANA CALZADA ESTE

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	2.401	0.00	0.0	TERRAPLEN	0.065	0.00	0.0
20.000	D TIERRA	0.835	32.36	32.4	TERRAPLEN	0.306	3.71	3.7
40.000	D TIERRA	0.432	12.67	45.0	TERRAPLEN	0.488	7.93	11.6
60.000	D TIERRA	0.440	8.72	53.7	TERRAPLEN	0.485	9.73	21.4
80.000	D TIERRA	0.686	11.26	65.0	TERRAPLEN	0.179	6.64	28.0
91.245	D TIERRA	1.171	10.44	75.4	TERRAPLEN	0.138	1.78	29.8
91.245	D TIERRA	1.171	0.00	75.4	TERRAPLEN	0.138	0.00	29.8
93.605	D TIERRA	1.719	3.41	78.8	TERRAPLEN	0.131	0.32	30.1
93.605	D TIERRA	3.375	0.00	78.8	TERRAPLEN	0.131	0.00	30.1
100.000	D TIERRA	3.446	21.81	100.7	TERRAPLEN	0.117	0.79	30.9
120.000	D TIERRA	3.527	69.72	170.4	TERRAPLEN	0.060	1.77	32.7
140.000	D TIERRA	3.890	74.17	244.5	TERRAPLEN	0.000	0.60	33.3
159.357	D TIERRA	4.209	78.39	322.9	TERRAPLEN	0.000	0.00	33.3
159.357	D TIERRA	4.209	0.00	322.9	TERRAPLEN	0.000	0.00	33.3
160.000	D TIERRA	4.012	2.64	325.6	TERRAPLEN	0.000	0.00	33.3
161.714	D TIERRA	2.027	5.18	330.8	TERRAPLEN	0.000	0.00	33.3
161.714	D TIERRA	2.026	0.00	330.8	TERRAPLEN	0.000	0.00	33.3
168.673	D TIERRA	1.749	13.14	343.9	TERRAPLEN	0.001	0.00	33.3
168.673	D TIERRA	0.160	0.00	343.9	TERRAPLEN	0.000	0.00	33.3
178.390	D TIERRA	0.043	0.98	344.9	TERRAPLEN	0.008	0.04	33.3
180.000	D TIERRA	0.043	0.07	344.9	TERRAPLEN	0.006	0.01	33.3
183.762	D TIERRA	0.136	0.34	345.3	TERRAPLEN	0.000	0.01	33.3
187.770	D TIERRA	0.241	0.76	346.0	TERRAPLEN	0.000	0.00	33.3
191.734	D TIERRA	0.233	0.94	347.0	TERRAPLEN	0.000	0.00	33.3
198.375	D TIERRA	0.234	1.55	348.5	TERRAPLEN	0.000	0.00	33.3
200.000	D TIERRA	0.236	0.38	348.9	TERRAPLEN	0.000	0.00	33.3
201.092	D TIERRA	0.225	0.25	349.2	TERRAPLEN	0.000	0.00	33.3
206.302	D TIERRA	0.081	0.80	350.0	TERRAPLEN	0.005	0.01	33.3
206.302	D TIERRA	0.812	0.00	350.0	TERRAPLEN	0.018	0.00	33.3
218.361	D TIERRA	0.565	8.31	358.3	TERRAPLEN	0.201	1.32	34.7
220.000	D TIERRA	0.460	0.84	359.1	TERRAPLEN	0.278	0.39	35.0
220.000	D TIERRA	0.463	0.00	359.1	TERRAPLEN	0.139	0.00	35.0
240.000	D TIERRA	1.013	14.76	373.9	TERRAPLEN	0.108	2.47	37.5
249.885	D TIERRA	0.915	9.53	383.4	TERRAPLEN	0.247	1.76	39.3
249.885	D TIERRA	0.915	0.00	383.4	TERRAPLEN	0.247	0.00	39.3
252.245	D TIERRA	1.597	2.96	386.3	TERRAPLEN	0.209	0.54	39.8
252.245	D TIERRA	3.123	0.00	386.3	TERRAPLEN	0.209	0.00	39.8
260.000	D TIERRA	3.138	24.28	410.6	TERRAPLEN	0.078	1.11	40.9
266.648	D TIERRA	3.178	21.00	431.6	TERRAPLEN	0.036	0.38	41.3
278.188	D TIERRA	3.281	37.27	468.9	TERRAPLEN	0.057	0.54	41.8
278.188	D TIERRA	3.281	0.00	468.9	TERRAPLEN	0.057	0.00	41.8
280.000	D TIERRA	1.917	4.71	473.6	TERRAPLEN	0.062	0.11	42.0
280.548	D TIERRA	1.105	0.83	474.4	TERRAPLEN	0.099	0.04	42.0
280.548	D TIERRA	1.105	0.00	474.4	TERRAPLEN	0.099	0.00	42.0
289.528	D TIERRA	0.540	7.39	481.8	TERRAPLEN	0.276	1.69	43.7
300.000	D TIERRA	0.715	6.57	488.4	TERRAPLEN	0.153	2.25	45.9
303.583	D TIERRA	0.605	2.36	490.8	TERRAPLEN	0.211	0.65	46.6
303.583	D TIERRA	0.605	0.00	490.8	TERRAPLEN	0.211	0.00	46.6
305.942	D TIERRA	1.592	2.59	493.3	TERRAPLEN	0.215	0.50	47.1
305.942	D TIERRA	2.750	0.00	493.3	TERRAPLEN	0.215	0.00	47.1
312.408	D TIERRA	2.655	17.47	510.8	TERRAPLEN	0.317	1.72	48.8
320.000	D TIERRA	2.599	19.94	530.8	TERRAPLEN	0.438	2.87	51.7
340.000	D TIERRA	2.131	47.30	578.1	TERRAPLEN	0.523	9.61	61.3
360.000	D TIERRA	2.755	48.86	626.9	TERRAPLEN	0.240	7.63	68.9
380.000	D TIERRA	2.910	56.65	683.6	TERRAPLEN	0.036	2.76	71.7
389.544	D TIERRA	2.940	27.92	711.5	TERRAPLEN	0.045	0.39	72.1
400.000	D TIERRA	3.065	31.39	742.9	TERRAPLEN	0.029	0.39	72.4
400.174	D TIERRA	3.070	0.53	743.4	TERRAPLEN	0.028	0.01	72.5
409.812	D TIERRA	3.531	31.81	775.2	TERRAPLEN	0.000	0.14	72.6
409.812	D TIERRA	3.531	0.00	775.2	TERRAPLEN	0.000	0.00	72.6
410.804	D TIERRA	3.118	3.30	778.5	TERRAPLEN	0.000	0.00	72.6
412.171	D TIERRA	1.475	3.14	781.7	TERRAPLEN	0.004	0.00	72.6
412.171	D TIERRA	1.475	0.00	781.7	TERRAPLEN	0.004	0.00	72.6
420.000	D TIERRA	1.748	12.62	794.3	TERRAPLEN	0.000	0.02	72.6



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 1: BORDILLO MEDIANA CALZADA ESTE

* * * RESUMEN DE VOLUMENES TOTALES * * *	
MATERIAL	VOLUMEN
D TIERRA	794.3
TERRAPLEN	72.6

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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 2: BORDILLO MEDIANA CALZADA OESTE

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	1.858	0.00	0.0	TERRAPLEN	0.015	0.00	0.0
4.640	D TIERRA	0.105	4.55	4.6	TERRAPLEN	1.572	3.68	3.7
4.640	D TIERRA	0.105	0.00	4.6	TERRAPLEN	1.572	0.00	3.7
7.000	D TIERRA	1.415	1.79	6.3	TERRAPLEN	0.339	2.25	5.9
7.000	D TIERRA	3.985	0.00	6.3	TERRAPLEN	0.339	0.00	5.9
20.000	D TIERRA	4.437	54.74	61.1	TERRAPLEN	0.106	2.89	8.8
40.000	D TIERRA	4.020	84.56	145.6	TERRAPLEN	0.133	2.39	11.2
60.000	D TIERRA	4.276	82.96	228.6	TERRAPLEN	0.110	2.43	13.6
80.000	D TIERRA	4.168	84.44	313.0	TERRAPLEN	0.109	2.20	15.8
91.109	D TIERRA	4.196	46.46	359.5	TERRAPLEN	0.124	1.30	17.1
91.109	D TIERRA	4.196	0.00	359.5	TERRAPLEN	0.124	0.00	17.1
93.469	D TIERRA	0.130	5.10	364.6	TERRAPLEN	1.249	1.62	18.8
93.469	D TIERRA	0.130	0.00	364.6	TERRAPLEN	1.249	0.00	18.8
100.000	D TIERRA	0.130	0.85	365.5	TERRAPLEN	1.927	10.37	29.1
102.895	D TIERRA	0.137	0.39	365.8	TERRAPLEN	2.031	5.73	34.9
120.000	D TIERRA	0.138	2.35	368.2	TERRAPLEN	1.356	28.97	63.8
137.105	D TIERRA	0.150	2.46	370.7	TERRAPLEN	2.043	29.07	92.9
140.000	D TIERRA	0.154	0.44	371.1	TERRAPLEN	2.099	5.99	98.9
148.333	D TIERRA	0.147	1.25	372.4	TERRAPLEN	1.000	12.91	111.8
148.333	D TIERRA	0.147	0.00	372.4	TERRAPLEN	1.000	0.00	111.8
150.693	D TIERRA	1.653	2.12	374.5	TERRAPLEN	0.013	1.20	113.0
150.693	D TIERRA	4.449	0.00	374.5	TERRAPLEN	0.013	0.00	113.0
159.354	D TIERRA	4.744	39.81	414.3	TERRAPLEN	0.000	0.06	113.1
159.354	D TIERRA	4.744	0.00	414.3	TERRAPLEN	0.000	0.00	113.1
160.000	D TIERRA	3.842	2.77	417.1	TERRAPLEN	0.000	0.00	113.1
161.714	D TIERRA	0.252	3.51	420.6	TERRAPLEN	0.624	0.54	113.6
161.714	D TIERRA	0.252	0.00	420.6	TERRAPLEN	0.624	0.00	113.6
172.143	D TIERRA	0.159	2.14	422.7	TERRAPLEN	0.767	7.25	120.8
180.000	D TIERRA	0.148	1.21	423.9	TERRAPLEN	0.882	6.48	127.3
191.974	D TIERRA	0.147	1.76	425.7	TERRAPLEN	2.116	17.95	145.3
194.227	D TIERRA	0.147	0.33	426.0	TERRAPLEN	1.859	4.48	149.7
200.000	D TIERRA	0.140	0.83	426.8	TERRAPLEN	1.046	8.38	158.1
211.804	D TIERRA	0.132	1.60	428.4	TERRAPLEN	1.281	13.73	171.9
220.000	D TIERRA	0.120	1.03	429.5	TERRAPLEN	2.082	13.78	185.6
220.000	D TIERRA	0.128	0.00	429.5	TERRAPLEN	1.948	0.00	185.6
240.000	D TIERRA	0.153	2.82	432.3	TERRAPLEN	0.983	29.31	214.9
251.443	D TIERRA	0.159	1.79	434.1	TERRAPLEN	1.118	12.02	227.0
251.443	D TIERRA	0.159	0.00	434.1	TERRAPLEN	1.118	0.00	227.0
253.803	D TIERRA	1.574	2.04	436.1	TERRAPLEN	0.017	1.34	228.3
253.803	D TIERRA	4.244	0.00	436.1	TERRAPLEN	0.017	0.00	228.3
253.962	D TIERRA	4.241	0.67	436.8	TERRAPLEN	0.017	0.00	228.3
260.000	D TIERRA	4.199	25.48	462.3	TERRAPLEN	0.010	0.08	228.4
267.398	D TIERRA	4.189	31.03	493.3	TERRAPLEN	0.002	0.05	228.4
280.000	D TIERRA	4.161	52.61	545.9	TERRAPLEN	0.027	0.18	228.6
280.834	D TIERRA	4.177	3.48	549.4	TERRAPLEN	0.025	0.02	228.6
300.000	D TIERRA	4.290	81.14	630.5	TERRAPLEN	0.001	0.24	228.9
308.778	D TIERRA	4.116	36.90	667.4	TERRAPLEN	0.070	0.31	229.2
320.000	D TIERRA	4.046	45.80	713.2	TERRAPLEN	0.232	1.69	230.9
321.543	D TIERRA	4.027	6.23	719.5	TERRAPLEN	0.254	0.37	231.3
334.307	D TIERRA	3.907	50.63	770.1	TERRAPLEN	0.270	3.34	234.6



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 2: BORDILLO MEDIANA CALZADA OESTE

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
340.000	D TIERRA	3.968	22.42	792.5	TERRAPLEN	0.271	1.54	236.1
354.202	D TIERRA	3.929	56.08	848.6	TERRAPLEN	0.185	3.24	239.4
354.202	D TIERRA	3.929	0.00	848.6	TERRAPLEN	0.185	0.00	239.4
356.562	D TIERRA	0.118	4.78	853.4	TERRAPLEN	1.537	2.03	241.4
356.562	D TIERRA	0.118	0.00	853.4	TERRAPLEN	1.537	0.00	241.4
360.000	D TIERRA	0.120	0.41	853.8	TERRAPLEN	1.477	5.18	246.6
380.000	D TIERRA	0.111	2.32	856.1	TERRAPLEN	1.634	31.11	277.7
400.000	D TIERRA	0.123	2.35	858.4	TERRAPLEN	1.829	34.63	312.3
402.894	D TIERRA	0.135	0.37	858.8	TERRAPLEN	1.852	5.33	317.7
412.763	D TIERRA	0.293	2.11	860.9	TERRAPLEN	1.531	16.69	334.4
420.000	D TIERRA	0.304	2.16	863.1	TERRAPLEN	1.000	9.16	343.5

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
D TIERRA	863.1
TERRAPLEN	343.5

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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 3: GLORIETA INTERSECCION CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	10.926	0.00	0.0	TERRAPLEN	0.582	0.00	0.0
2.000	D TIERRA	10.316	21.24	21.2	TERRAPLEN	0.491	1.07	1.1
4.000	D TIERRA	9.601	19.92	41.2	TERRAPLEN	0.422	0.91	2.0
6.000	D TIERRA	8.926	18.53	59.7	TERRAPLEN	0.376	0.80	2.8
8.000	D TIERRA	8.423	17.35	77.0	TERRAPLEN	0.334	0.71	3.5
10.000	D TIERRA	8.088	16.51	93.5	TERRAPLEN	0.288	0.62	4.1
10.500	D TIERRA	7.999	4.02	97.6	TERRAPLEN	0.278	0.14	4.3
12.000	D TIERRA	7.848	11.89	109.5	TERRAPLEN	0.247	0.39	4.7
14.000	D TIERRA	7.820	15.67	125.1	TERRAPLEN	0.214	0.46	5.1
16.000	D TIERRA	7.505	15.32	140.4	TERRAPLEN	0.181	0.40	5.5
18.000	D TIERRA	7.588	15.09	155.5	TERRAPLEN	0.144	0.33	5.8
20.000	D TIERRA	7.878	15.47	171.0	TERRAPLEN	0.111	0.25	6.1
22.000	D TIERRA	8.516	16.39	187.4	TERRAPLEN	0.088	0.20	6.3
24.000	D TIERRA	8.916	17.43	204.8	TERRAPLEN	0.067	0.16	6.4
26.000	D TIERRA	9.092	18.01	222.8	TERRAPLEN	0.050	0.12	6.6
28.000	D TIERRA	9.193	18.28	241.1	TERRAPLEN	0.034	0.08	6.6
30.000	D TIERRA	9.070	18.26	259.4	TERRAPLEN	0.022	0.06	6.7
32.000	D TIERRA	8.850	17.92	277.3	TERRAPLEN	0.014	0.04	6.7
34.000	D TIERRA	8.583	17.43	294.7	TERRAPLEN	0.008	0.02	6.8
36.000	D TIERRA	8.457	17.04	311.8	TERRAPLEN	0.003	0.01	6.8
37.500	D TIERRA	8.490	12.71	324.5	TERRAPLEN	0.001	0.00	6.8
38.000	D TIERRA	8.479	4.24	328.7	TERRAPLEN	0.000	0.00	6.8
40.000	D TIERRA	8.473	16.95	345.7	TERRAPLEN	0.001	0.00	6.8
42.000	D TIERRA	8.768	17.24	362.9	TERRAPLEN	0.001	0.00	6.8
44.000	D TIERRA	8.841	17.61	380.5	TERRAPLEN	0.002	0.00	6.8
46.000	D TIERRA	9.480	18.32	398.9	TERRAPLEN	0.004	0.01	6.8
48.000	D TIERRA	9.894	19.37	418.2	TERRAPLEN	0.007	0.01	6.8
50.000	D TIERRA	10.266	20.16	438.4	TERRAPLEN	0.011	0.02	6.8



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 3: GLORIETA INTERSECCION CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
52.000	D TIERRA	10.325	20.59	459.0	TERRAPLEN	0.025	0.04	6.8
54.000	D TIERRA	10.255	20.58	479.6	TERRAPLEN	0.081	0.11	7.0
56.000	D TIERRA	9.512	19.77	499.3	TERRAPLEN	0.166	0.25	7.2
58.000	D TIERRA	8.166	17.68	517.0	TERRAPLEN	0.278	0.44	7.6
60.000	D TIERRA	6.671	14.84	531.8	TERRAPLEN	0.415	0.69	8.3
62.000	D TIERRA	5.360	12.03	543.9	TERRAPLEN	0.610	1.03	9.4
64.000	D TIERRA	4.417	9.78	553.6	TERRAPLEN	0.903	1.51	10.9
64.500	D TIERRA	4.224	2.16	555.8	TERRAPLEN	0.988	0.47	11.3
66.000	D TIERRA	3.666	5.92	561.7	TERRAPLEN	1.276	1.70	13.0
68.000	D TIERRA	3.602	7.27	569.0	TERRAPLEN	1.755	3.03	16.1
70.000	D TIERRA	3.621	7.22	576.2	TERRAPLEN	2.209	3.96	20.0
72.000	D TIERRA	3.579	7.20	583.4	TERRAPLEN	2.551	4.76	24.8
74.000	D TIERRA	3.699	7.28	590.7	TERRAPLEN	2.856	5.41	30.2
75.478	D TIERRA	3.820	5.56	596.3	TERRAPLEN	3.055	4.37	34.6
76.000	D TIERRA	3.889	2.01	598.3	TERRAPLEN	3.118	1.61	36.2
78.000	D TIERRA	3.911	7.80	606.1	TERRAPLEN	3.297	6.41	42.6
80.000	D TIERRA	3.855	7.77	613.8	TERRAPLEN	3.481	6.78	49.4
82.000	D TIERRA	3.745	7.60	621.4	TERRAPLEN	3.596	7.08	56.5
84.000	D TIERRA	3.666	7.41	628.8	TERRAPLEN	3.650	7.25	63.7
86.000	D TIERRA	3.697	7.36	636.2	TERRAPLEN	3.649	7.30	71.0
88.000	D TIERRA	3.763	7.46	643.7	TERRAPLEN	3.603	7.25	78.3
90.000	D TIERRA	3.897	7.66	651.3	TERRAPLEN	3.498	7.10	85.4
92.000	D TIERRA	3.953	7.85	659.2	TERRAPLEN	3.332	6.83	92.2
92.478	D TIERRA	3.931	1.88	661.1	TERRAPLEN	3.282	1.58	93.8
94.000	D TIERRA	3.879	5.94	667.0	TERRAPLEN	3.080	4.84	98.6
96.000	D TIERRA	3.823	7.70	674.7	TERRAPLEN	2.631	5.71	104.3
98.000	D TIERRA	4.696	8.52	683.2	TERRAPLEN	2.198	4.83	109.1
100.000	D TIERRA	5.627	10.32	693.5	TERRAPLEN	1.777	3.97	113.1
102.000	D TIERRA	6.821	12.45	706.0	TERRAPLEN	1.340	3.12	116.2
104.000	D TIERRA	8.254	15.08	721.1	TERRAPLEN	0.931	2.27	118.5
106.000	D TIERRA	9.804	18.06	739.1	TERRAPLEN	0.784	1.72	120.2
108.000	D TIERRA	10.777	20.58	759.7	TERRAPLEN	0.682	1.47	121.7
109.478	D TIERRA	10.994	16.09	775.8	TERRAPLEN	0.606	0.95	122.6
109.956	D TIERRA	10.926	5.24	781.0	TERRAPLEN	0.582	0.28	122.9

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
D TIERRA	781.0
TERRAPLEN	122.9



Istram 9.04 18/02/20 10:33:39 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 4: RAMAL NORESTE GLORIETA CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	1.557	0.00	0.0				
12.834	D TIERRA	0.820	15.25	15.3	TERRAPLEN	0.013	0.08	0.1
15.000	D TIERRA	0.539	1.47	16.7	TERRAPLEN	0.026	0.04	0.1
16.151	D TIERRA	0.454	0.57	17.3	TERRAPLEN	0.056	0.05	0.2
18.000	D TIERRA	0.452	0.84	18.1	TERRAPLEN	0.107	0.15	0.3
20.000	D TIERRA	0.483	0.94	19.1	TERRAPLEN	0.092	0.20	0.5
20.812	D TIERRA	0.503	0.40	19.5	TERRAPLEN	0.080	0.07	0.6
22.000	D TIERRA	0.544	0.62	20.1	TERRAPLEN	0.062	0.08	0.7
24.000	D TIERRA	0.669	1.21	21.3	TERRAPLEN	0.049	0.11	0.8
26.000	D TIERRA	0.841	1.51	22.8	TERRAPLEN	0.034	0.08	0.9
28.000	D TIERRA	1.130	1.97	24.8	TERRAPLEN	0.027	0.06	0.9
28.790	D TIERRA	1.179	0.91	25.7	TERRAPLEN	0.028	0.02	0.9
29.051	D TIERRA	1.196	0.31	26.0	TERRAPLEN	0.028	0.01	1.0
30.000	D TIERRA	1.252	1.16	27.2	TERRAPLEN	0.028	0.03	1.0
32.000	D TIERRA	0.888	2.14	29.3	TERRAPLEN	0.032	0.06	1.0
33.205	D TIERRA	0.714	0.97	30.3	TERRAPLEN	0.037	0.04	1.1
34.000	D TIERRA	0.668	0.55	30.8	TERRAPLEN	0.040	0.03	1.1
36.000	D TIERRA	0.576	1.24	32.1	TERRAPLEN	0.055	0.09	1.2
37.548	D TIERRA	0.516	0.84	32.9	TERRAPLEN	0.076	0.10	1.3
38.000	D TIERRA	0.500	0.23	33.1	TERRAPLEN	0.082	0.04	1.3
40.000	D TIERRA	0.448	0.95	34.1	TERRAPLEN	0.084	0.17	1.5
40.131	D TIERRA	0.447	0.06	34.1	TERRAPLEN	0.084	0.01	1.5
40.232	D TIERRA	0.444	0.04	34.2	TERRAPLEN	0.084	0.01	1.5
41.782	D TIERRA	0.414	0.67	34.9	TERRAPLEN	0.090	0.13	1.7
42.000	D TIERRA	0.408	0.09	34.9	TERRAPLEN	0.091	0.02	1.7
44.000	D TIERRA	0.349	0.76	35.7	TERRAPLEN	0.112	0.20	1.9
44.007	D TIERRA	0.349	0.00	35.7	TERRAPLEN	0.112	0.00	1.9
46.000	D TIERRA	0.331	0.68	36.4	TERRAPLEN	0.183	0.29	2.2
46.045	D TIERRA	0.331	0.01	36.4	TERRAPLEN	0.186	0.01	2.2
46.391	D TIERRA	0.332	0.11	36.5	TERRAPLEN	0.203	0.07	2.3
48.000	D TIERRA	0.331	0.53	37.0	TERRAPLEN	0.289	0.40	2.7
50.000	D TIERRA	0.343	0.67	37.7	TERRAPLEN	0.393	0.68	3.3
52.000	D TIERRA	0.515	0.86	38.6	TERRAPLEN	0.465	0.86	4.2
52.538	D TIERRA	0.606	0.30	38.9	TERRAPLEN	0.465	0.25	4.4
54.000	D TIERRA	0.806	1.03	39.9	TERRAPLEN	0.403	0.63	5.1
55.437	D TIERRA	0.745	1.11	41.0	TERRAPLEN	0.488	0.64	5.7
56.000	D TIERRA	0.699	0.41	41.4	TERRAPLEN	0.524	0.28	6.0
56.801	D TIERRA	0.624	0.53	42.0	TERRAPLEN	0.579	0.44	6.4
58.000	D TIERRA	0.651	0.76	42.7	TERRAPLEN	0.630	0.72	7.2
58.171	D TIERRA	0.637	0.11	42.8	TERRAPLEN	0.636	0.11	7.3
59.548	D TIERRA	0.526	0.80	43.6	TERRAPLEN	0.667	0.90	8.2
60.000	D TIERRA	0.488	0.23	43.9	TERRAPLEN	0.674	0.30	8.5
60.930	D TIERRA	0.410	0.42	44.3	TERRAPLEN	0.720	0.65	9.1
62.000	D TIERRA	0.353	0.41	44.7	TERRAPLEN	0.818	0.82	10.0
62.318	D TIERRA	0.352	0.11	44.8	TERRAPLEN	0.834	0.26	10.2
63.711	D TIERRA	0.368	0.50	45.3	TERRAPLEN	0.857	1.18	11.4
64.000	D TIERRA	0.374	0.11	45.4	TERRAPLEN	0.851	0.25	11.6
66.000	D TIERRA	0.431	0.81	46.2	TERRAPLEN	0.787	1.64	13.3
66.344	D TIERRA	0.437	0.15	46.4	TERRAPLEN	0.788	0.27	13.5
74.401	D TIERRA	0.281	2.90	49.3	TERRAPLEN	1.189	7.96	21.5

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
D TIERRA	49.3
TERRAPLEN	21.5



Istram 9.04 18/02/20 10:33:39 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 5: RAMAL NOROESTE GLORIETA CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	0.582	0.00	0.0	TERRAPLEN	0.492	0.00	0.0
5.628	D TIERRA	0.795	3.87	3.9	TERRAPLEN	0.388	2.47	2.5
10.424	D TIERRA	1.119	4.59	8.5	TERRAPLEN	0.323	1.70	4.2
12.000	D TIERRA	1.243	1.86	10.3	TERRAPLEN	0.299	0.49	4.7
12.132	D TIERRA	1.254	0.16	10.5	TERRAPLEN	0.296	0.04	4.7
14.000	D TIERRA	1.496	2.57	13.1	TERRAPLEN	0.169	0.43	5.1
14.551	D TIERRA	1.578	0.85	13.9	TERRAPLEN	0.163	0.09	5.2
15.744	D TIERRA	1.570	1.88	15.8	TERRAPLEN	0.157	0.19	5.4
16.000	D TIERRA	1.605	0.41	16.2	TERRAPLEN	0.156	0.04	5.5
16.927	D TIERRA	1.729	1.55	17.7	TERRAPLEN	0.153	0.14	5.6
18.000	D TIERRA	1.874	1.93	19.7	TERRAPLEN	0.139	0.16	5.8
18.101	D TIERRA	1.877	0.19	19.9	TERRAPLEN	0.137	0.01	5.8
20.000	D TIERRA	1.727	3.42	23.3	TERRAPLEN	0.113	0.24	6.0
21.352	D TIERRA	1.584	2.24	25.5	TERRAPLEN	0.100	0.14	6.2
22.000	D TIERRA	1.283	0.93	26.4	TERRAPLEN	0.098	0.06	6.2
24.000	D TIERRA	0.748	2.03	28.5	TERRAPLEN	0.092	0.19	6.4
26.000	D TIERRA	0.466	1.21	29.7	TERRAPLEN	0.086	0.18	6.6
28.000	D TIERRA	0.309	0.77	30.5	TERRAPLEN	0.084	0.17	6.8
30.000	D TIERRA	0.226	0.53	31.0	TERRAPLEN	0.095	0.18	6.9
32.000	D TIERRA	0.199	0.42	31.4	TERRAPLEN	0.085	0.18	7.1
33.335	D TIERRA	0.207	0.27	31.7	TERRAPLEN	0.060	0.10	7.2
33.988	D TIERRA	0.215	0.14	31.8	TERRAPLEN	0.049	0.04	7.3
34.000	D TIERRA	0.215	0.00	31.8	TERRAPLEN	0.049	0.00	7.3
34.003	D TIERRA	0.215	0.00	31.8	TERRAPLEN	0.049	0.00	7.3
35.968	D TIERRA	0.127	0.34	32.2	TERRAPLEN	0.036	0.08	7.3
36.000	D TIERRA	0.127	0.00	32.2	TERRAPLEN	0.038	0.00	7.3
38.000	D TIERRA	0.145	0.27	32.4	TERRAPLEN	0.084	0.12	7.5
40.000	D TIERRA	0.187	0.33	32.8	TERRAPLEN	0.065	0.15	7.6
40.550	D TIERRA	0.215	0.11	32.9	TERRAPLEN	0.055	0.03	7.6
42.000	D TIERRA	0.340	0.40	33.3	TERRAPLEN	0.039	0.07	7.7
44.000	D TIERRA	0.654	0.99	34.3	TERRAPLEN	0.033	0.07	7.8
46.000	D TIERRA	1.268	1.92	36.2	TERRAPLEN	0.046	0.08	7.9
48.000	D TIERRA	2.120	3.39	39.6	TERRAPLEN	0.058	0.10	8.0
50.000	D TIERRA	1.974	4.09	43.7	TERRAPLEN	0.076	0.13	8.1
51.707	D TIERRA	1.775	3.20	46.9	TERRAPLEN	0.073	0.13	8.2
52.000	D TIERRA	1.744	0.52	47.4	TERRAPLEN	0.070	0.02	8.3
54.000	D TIERRA	1.582	3.33	50.7	TERRAPLEN	0.059	0.13	8.4
56.000	D TIERRA	1.582	3.16	53.9	TERRAPLEN	0.032	0.09	8.5
56.213	D TIERRA	1.582	0.34	54.2	TERRAPLEN	0.030	0.01	8.5
57.326	D TIERRA	1.589	1.76	56.0	TERRAPLEN	0.021	0.03	8.5
59.322	D TIERRA	1.579	3.16	59.2	TERRAPLEN	0.005	0.03	8.5
60.000	D TIERRA	1.566	1.07	60.2	TERRAPLEN	0.000	0.00	8.5
71.598	D TIERRA	1.643	18.61	78.8	TERRAPLEN	0.000	0.00	8.5
73.958	D TIERRA	1.697	3.94	82.8	TERRAPLEN	0.000	0.00	8.5
80.000	D TIERRA	1.826	10.65	93.4	TERRAPLEN	0.000	0.00	8.5
88.262	D TIERRA	1.843	15.16	108.6	TERRAPLEN	0.000	0.00	8.5
90.590	D TIERRA	1.809	4.25	112.8	TERRAPLEN	0.001	0.00	8.5
99.630	D TIERRA	1.766	16.16	129.0	TERRAPLEN	0.001	0.01	8.5
100.000	D TIERRA	1.768	0.65	129.6	TERRAPLEN	0.001	0.00	8.5
107.736	D TIERRA	1.789	13.76	143.4	TERRAPLEN	0.000	0.00	8.5

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
D TIERRA	143.4
TERRAPLEN	8.5



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 6: CALLE DEL PARAMO

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D_TIERRA	4.696	0.00	0.0				
10.735	D_TIERRA	4.110	47.27	47.3	TERRAPLEN	0.001	0.01	0.0
10.735	D_TIERRA	2.536	0.00	47.3				
10.809	D_TIERRA	2.522	0.19	47.5				
10.809	D_TIERRA	0.688	0.00	47.5				
10.883	D_TIERRA	0.688	0.05	47.5				
11.486	D_TIERRA	0.696	0.42	47.9				
11.490	D_TIERRA	0.696	0.00	47.9				
12.075	D_TIERRA	0.710	0.41	48.3				
12.087	D_TIERRA	0.710	0.01	48.3				
12.658	D_TIERRA	0.732	0.41	48.8				
12.685	D_TIERRA	0.733	0.02	48.8				
13.238	D_TIERRA	0.764	0.41	49.2				
13.282	D_TIERRA	0.766	0.03	49.2				
13.815	D_TIERRA	0.804	0.42	49.6				
13.874	D_TIERRA	0.806	0.05	49.7				
14.462	D_TIERRA	0.844	0.49	50.2				
14.631	D_TIERRA	0.857	0.14	50.3				
15.043	D_TIERRA	0.891	0.36	50.7				
15.619	D_TIERRA	0.945	0.53	51.2				
20.000	D_TIERRA	0.683	3.57	54.8				
22.879	D_TIERRA	0.427	1.60	56.4				
26.164	D_TIERRA	0.416	1.38	57.8				
26.172	D_TIERRA	0.218	0.00	57.8				
26.180	D_TIERRA	0.000	0.00	57.8				
31.128	D_TIERRA	0.000	0.00	57.8				
33.272	D_TIERRA	0.000	0.00	57.8				

* * * MEDICIONES DE LOS ACUERDOS EN LOS CRUCES * * *
* * * Cubicacion segun distancias compensadas * * *

PK	EJE AC	MATERIAL	VOL. PARCIAL	MATERIAL	VOL. PARCIAL
0.000	1 DA	D_TIERRA	21.57	TERRAPLEN	0.02
0.000	1 IA	D_TIERRA	24.64	TERRAPLEN	0.05

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
D_TIERRA	104.0
TERRAPLEN	0.1



Istram 9.04 18/02/20 11:56:04 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 7: RAMAL SUROESTE GLORIETA CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	1.757	0.00	0.0				
3.009	D TIERRA	1.664	5.15	5.1				
8.795	D TIERRA	1.610	9.47	14.6				
18.340	D TIERRA	1.882	16.67	31.3				
20.000	D TIERRA	1.931	3.16	34.4				
22.741	D TIERRA	2.013	5.41	39.9				
33.671	D TIERRA	2.295	23.54	63.4				
36.206	D TIERRA	2.442	6.00	69.4				
40.000	D TIERRA	2.439	9.26	78.7				
48.212	D TIERRA	2.239	19.21	97.9				
48.378	D TIERRA	2.234	0.37	98.2				
50.000	D TIERRA	2.184	3.58	101.8				
52.000	D TIERRA	2.087	4.27	106.1				
54.000	D TIERRA	1.939	4.03	110.1				
56.000	D TIERRA	1.688	3.63	113.7				
58.000	D TIERRA	1.446	3.13	116.9				
60.000	D TIERRA	1.275	2.72	119.6	TERRAPLEN	0.003	0.00	0.0
62.000	D TIERRA	0.765	2.04	121.6	TERRAPLEN	0.056	0.06	0.1
64.000	D TIERRA	0.563	1.33	123.0	TERRAPLEN	0.001	0.06	0.1
66.000	D TIERRA	0.355	0.92	123.9	TERRAPLEN	0.006	0.01	0.1
68.000	D TIERRA	0.350	0.70	124.6	TERRAPLEN	0.000	0.01	0.1
70.000	D TIERRA	0.318	0.67	125.3	TERRAPLEN	0.000	0.00	0.1
71.876	D TIERRA	0.371	0.65	125.9	TERRAPLEN	0.000	0.00	0.1
72.000	D TIERRA	0.374	0.05	126.0	TERRAPLEN	0.000	0.00	0.1
74.000	D TIERRA	0.391	0.76	126.7	TERRAPLEN	0.010	0.01	0.1
74.530	D TIERRA	0.386	0.21	126.9	TERRAPLEN	0.013	0.01	0.1
74.710	D TIERRA	0.387	0.07	127.0	TERRAPLEN	0.014	0.00	0.2
76.000	D TIERRA	0.378	0.49	127.5	TERRAPLEN	0.018	0.02	0.2
78.000	D TIERRA	0.380	0.76	128.2	TERRAPLEN	0.022	0.04	0.2
80.000	D TIERRA	0.424	0.80	129.1	TERRAPLEN	0.023	0.05	0.3
80.000	D TIERRA	2.941	0.00	129.1	TERRAPLEN	0.000	0.00	0.3
82.000	D TIERRA	3.301	6.24	135.3	TERRAPLEN	0.000	0.00	0.3
84.000	D TIERRA	3.790	7.09	142.4	TERRAPLEN	0.000	0.00	0.3
85.000	D TIERRA	4.112	3.95	146.3	TERRAPLEN	0.000	0.00	0.3
86.000	D TIERRA	4.489	4.30	150.6	TERRAPLEN	0.000	0.00	0.3
86.823	D TIERRA	4.855	3.84	154.5	TERRAPLEN	0.000	0.00	0.3
88.000	D TIERRA	5.779	6.26	160.7	TERRAPLEN	0.000	0.00	0.3
88.802	D TIERRA	6.669	4.99	165.7	TERRAPLEN	0.000	0.00	0.3
90.000	D TIERRA	6.402	7.83	173.6	TERRAPLEN	0.000	0.00	0.3
92.000	D TIERRA	5.912	12.31	185.9	TERRAPLEN	0.000	0.00	0.3
93.000	D TIERRA	5.648	5.78	191.7	TERRAPLEN	0.000	0.00	0.3
94.000	D TIERRA	5.393	5.52	197.2	TERRAPLEN	0.000	0.00	0.3
96.000	D TIERRA	4.546	9.94	207.1	TERRAPLEN	0.000	0.00	0.3
98.000	D TIERRA	3.994	8.54	215.7	TERRAPLEN	0.000	0.00	0.3
100.000	D TIERRA	3.600	7.59	223.2	TERRAPLEN	0.000	0.00	0.3
102.000	D TIERRA	3.303	6.90	230.2	TERRAPLEN	0.000	0.00	0.3
104.000	D TIERRA	4.233	7.54	237.7	TERRAPLEN	0.000	0.00	0.3
105.727	D TIERRA	5.381	8.30	246.0	TERRAPLEN	0.000	0.00	0.3
106.000	D TIERRA	5.400	1.47	247.5	TERRAPLEN	0.000	0.00	0.3
108.000	D TIERRA	5.440	10.84	258.3	TERRAPLEN	0.000	0.00	0.3
110.000	D TIERRA	5.459	10.90	269.2	TERRAPLEN	0.000	0.00	0.3
112.000	D TIERRA	5.476	10.93	280.1	TERRAPLEN	0.000	0.00	0.3
114.000	D TIERRA	5.419	10.89	291.0	TERRAPLEN	0.000	0.00	0.3
116.000	D TIERRA	5.434	10.85	301.9	TERRAPLEN	0.000	0.00	0.3
118.000	D TIERRA	5.480	10.91	312.8	TERRAPLEN	0.000	0.00	0.3
120.000	D TIERRA	5.534	11.01	323.8	TERRAPLEN	0.000	0.00	0.3
122.000	D TIERRA	5.605	11.14	334.9	TERRAPLEN	0.000	0.00	0.3
124.000	D TIERRA	5.560	11.16	346.1	TERRAPLEN	0.000	0.00	0.3
126.000	D TIERRA	5.548	11.11	357.2	TERRAPLEN	0.000	0.00	0.3
126.156	D TIERRA	5.550	0.87	358.1	TERRAPLEN	0.000	0.00	0.3
132.882	D TIERRA	5.513	37.20	395.3	TERRAPLEN	0.000	0.00	0.3

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
D TIERRA	395.3
TERRAPLEN	0.3



Istram 9.04 18/02/20 11:56:05 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 8: RAMAL SURESTE GLORIETA CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	4.055	0.00	0.0				
5.135	D TIERRA	4.359	21.60	21.6				
10.000	D TIERRA	4.421	21.36	43.0				
14.545	D TIERRA	3.536	18.08	61.0				
20.000	D TIERRA	3.076	18.03	79.1				
30.000	D TIERRA	3.418	32.47	111.5				
32.683	D TIERRA	3.864	9.77	121.3				
35.162	D TIERRA	4.251	10.06	131.4				
40.000	D TIERRA	4.890	22.11	153.5				
50.000	D TIERRA	6.347	56.18	209.7				
50.798	D TIERRA	6.420	5.09	214.8				
52.000	D TIERRA	5.577	7.21	222.0				
54.000	D TIERRA	4.577	10.15	232.1				
55.780	D TIERRA	3.957	7.60	239.7				
56.000	D TIERRA	3.889	0.86	240.6				
58.000	D TIERRA	3.390	7.28	247.9				
60.000	D TIERRA	3.007	6.40	254.3				
60.000	D TIERRA	0.322	0.00	254.3	TERRAPLEN	0.045	0.00	0.0
62.000	D TIERRA	0.269	0.59	254.8	TERRAPLEN	0.047	0.09	0.1
63.722	D TIERRA	0.244	0.44	255.3	TERRAPLEN	0.053	0.09	0.2
63.751	D TIERRA	0.244	0.01	255.3	TERRAPLEN	0.053	0.00	0.2
64.000	D TIERRA	0.242	0.06	255.4	TERRAPLEN	0.054	0.01	0.2
66.000	D TIERRA	0.228	0.47	255.8	TERRAPLEN	0.060	0.11	0.3
68.000	D TIERRA	0.239	0.47	256.3	TERRAPLEN	0.056	0.12	0.4
70.000	D TIERRA	0.291	0.53	256.8	TERRAPLEN	0.054	0.11	0.5
72.000	D TIERRA	0.292	0.58	257.4	TERRAPLEN	0.058	0.11	0.6
74.000	D TIERRA	0.268	0.56	258.0	TERRAPLEN	0.055	0.11	0.8
76.000	D TIERRA	0.451	0.72	258.7	TERRAPLEN	0.033	0.09	0.8
78.000	D TIERRA	0.924	1.38	260.1	TERRAPLEN	0.011	0.04	0.9
80.000	D TIERRA	1.140	2.06	262.1	TERRAPLEN	0.003	0.01	0.9
82.000	D TIERRA	1.240	2.38	264.5	TERRAPLEN	0.000	0.00	0.9
84.000	D TIERRA	1.258	2.50	267.0	TERRAPLEN	0.000	0.00	0.9
86.000	D TIERRA	1.261	2.52	269.5	TERRAPLEN	0.000	0.00	0.9
86.166	D TIERRA	1.267	0.21	269.7	TERRAPLEN	0.000	0.00	0.9
88.000	D TIERRA	1.373	2.42	272.2	TERRAPLEN	0.000	0.00	0.9
90.000	D TIERRA	1.130	2.50	274.7	TERRAPLEN	0.000	0.00	0.9
90.005	D TIERRA	1.129	0.01	274.7	TERRAPLEN	0.000	0.00	0.9
90.983	D TIERRA	1.104	1.09	275.8	TERRAPLEN	0.000	0.00	0.9
99.305	D TIERRA	1.183	9.52	285.3	TERRAPLEN	0.000	0.00	0.9

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
D TIERRA	285.3
TERRAPLEN	0.9



Istram 9.04 18/02/20 10:33:40 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 9: CALLE LABRADORES

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	10.738	0.00	0.0				
0.284	D TIERRA	10.738	3.05	3.0				
0.295	D TIERRA	10.739	0.12	3.2				
0.295	D TIERRA	6.338	0.00	3.2				
4.630	D TIERRA	7.276	29.51	32.7				
4.630	D TIERRA	7.276	0.00	32.7				
6.740	D TIERRA	6.145	14.16	46.8				
6.740	D TIERRA	6.936	0.00	46.8				
7.658	D TIERRA	6.873	6.34	53.2				
9.418	D TIERRA	6.744	11.98	65.2				
10.739	D TIERRA	6.642	8.84	74.0				
13.104	D TIERRA	6.668	15.74	89.7				
16.479	D TIERRA	6.689	22.54	112.3				
16.479	D TIERRA	6.689	0.00	112.3				
17.178	D TIERRA	6.709	4.68	117.0				
17.178	D TIERRA	11.888	0.00	117.0				
18.589	D TIERRA	8.330	14.26	131.2				
18.589	D TIERRA	9.932	0.00	131.2				
20.000	D TIERRA	9.943	14.02	145.2				
21.195	D TIERRA	9.972	11.90	157.1				
40.000	D TIERRA	10.163	189.32	346.5				
43.145	D TIERRA	9.807	31.40	377.9				
43.145	D TIERRA	9.807	0.00	377.9				
44.953	D TIERRA	11.372	19.15	397.0				
44.953	D TIERRA	6.603	0.00	397.0				
45.255	D TIERRA	6.600	1.99	399.0				
45.255	D TIERRA	6.600	0.00	399.0				
46.706	D TIERRA	6.584	9.56	408.6				
53.058	D TIERRA	6.551	41.72	450.3				
54.818	D TIERRA	6.578	11.55	461.8				
56.890	D TIERRA	6.630	13.68	475.5				
58.502	D TIERRA	6.581	10.65	486.2				
60.000	D TIERRA	6.548	9.83	496.0				
65.288	D TIERRA	6.335	34.06	530.1				
65.288	D TIERRA	10.865	0.00	530.1				
65.943	D TIERRA	10.896	7.13	537.2				
65.943	D TIERRA	10.896	0.00	537.2				
67.074	D TIERRA	10.504	12.10	549.3				
68.053	D TIERRA	7.910	9.01	558.3				
68.053	D TIERRA	9.521	0.00	558.3				
70.162	D TIERRA	9.620	20.18	578.5				
75.880	D TIERRA	9.701	55.24	633.7				
75.880	D TIERRA	9.701	0.00	633.7				
77.990	D TIERRA	11.996	22.89	656.6				
77.990	D TIERRA	11.996	0.00	656.6				
78.223	D TIERRA	11.989	2.79	659.4				
80.000	D TIERRA	12.906	22.12	681.5				
86.284	D TIERRA	10.454	73.39	754.9				
86.303	D TIERRA	10.446	0.20	755.1				

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
D TIERRA	755.1
TERRAPLEN	0.0



Istram 9.04 18/02/20 10:33:40 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 10: CALLE MIGUEL HERNANDEZ

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000								
2.438								
2.438								
3.246	D TIERRA	1.633	0.66	0.7				
4.054	D TIERRA	3.217	1.96	2.6				
8.128	D TIERRA	3.126	12.92	15.5				
8.128	D TIERRA	4.338	0.00	15.5				
9.802	D TIERRA	4.291	7.22	22.8				
9.802	D TIERRA	5.654	0.00	22.8				
12.734	D TIERRA	5.542	16.41	39.2				

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* * * MEDICIONES DE LOS ACUERDOS EN LOS CRUCES * * *

* * * Cubicacion segun distancias compensadas * * *

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PK	EJE AC	MATERIAL	VOL. PARCIAL	MATERIAL	VOL. PARCIAL
0.000	9 DP	D TIERRA	49.16		
0.000	9 IP	D TIERRA	7.77		

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* * * RESUMEN DE VOLUMENES TOTALES * * *

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MATERIAL	VOLUMEN
D TIERRA	96.1

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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 11: CALLE JORGE GUILLEN

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	D TIERRA	6.450	0.00	0.0				
1.012	D TIERRA	6.408	6.51	6.5				
1.012	D TIERRA	4.804	0.00	6.5				
1.306	D TIERRA	4.790	1.41	7.9				
1.306	D TIERRA	3.333	0.00	7.9				
7.798	D TIERRA	3.311	21.57	29.5				
8.605	D TIERRA	1.677	2.01	31.5				
9.411	D TIERRA	0.001	0.68	32.2				
11.850	D TIERRA	0.000	0.00	32.2				



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 11: CALLE JORGE GUILLEN

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* * * MEDICIONES DE LOS ACUERDOS EN LOS CRUCES * * *

* * * Cubicacion segun distancias compensadas * * *

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PK	EJE AC	MATERIAL	VOL. PARCIAL	MATERIAL	VOL. PARCIAL
11.850	9 DA	D TIERRA	21.60		
11.850	9 IA	D TIERRA	50.66		

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* * * RESUMEN DE VOLUMENES TOTALES * * *

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MATERIAL	VOLUMEN
D TIERRA	104.4



FIRMES



Istram 9.04 18/02/20 10:33:38 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 1: BORDILLO MEDIANA CALZADA ESTE

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	MBC_S12	0.284	0.00	0.0	MBC_D12	0.284	0.00	0.0
20.000	MBC_S12	0.284	5.68	5.7	MBC_D12	0.285	5.69	5.7
40.000	MBC_S12	0.284	5.68	11.4	MBC_D12	0.285	5.70	11.4
60.000	MBC_S12	0.284	5.69	17.0	MBC_D12	0.285	5.69	17.1
80.000	MBC_S12	0.285	5.69	22.7	MBC_D12	0.284	5.69	22.8
91.245	MBC_S12	0.285	3.21	25.9	MBC_D12	0.284	3.20	26.0
91.245	MBC_S12	0.285	0.00	25.9	MBC_D12	0.284	0.00	26.0
93.605	MBC_S12	0.285	0.67	26.6	MBC_D12	0.284	0.67	26.6
93.605	MBC_S12	0.285	0.00	26.6	MBC_D12	0.284	0.00	26.6
100.000	MBC_S12	0.284	1.82	28.4	MBC_D12	0.284	1.82	28.5
120.000	MBC_S12	0.284	5.69	34.1	MBC_D12	0.284	5.69	34.1
140.000	MBC_S12	0.284	5.68	39.8	MBC_D12	0.285	5.69	39.8
159.357	MBC_S12	0.284	5.50	45.3	MBC_D12	0.284	5.51	45.4
159.357	MBC_S12	0.284	0.00	45.3	MBC_D12	0.284	0.00	45.4
160.000	MBC_S12	0.284	0.18	45.5	MBC_D12	0.285	0.18	45.5
161.714	MBC_S12	0.284	0.49	46.0	MBC_D12	0.285	0.49	46.0
161.714	MBC_S12	0.284	0.00	46.0	MBC_D12	0.285	0.00	46.0
168.673	MBC_S12	0.284	1.97	48.0	MBC_D12	0.285	1.98	48.0
168.673	MBC_S12	0.283	0.00	48.0	MBC_D12	0.285	0.00	48.0
178.390	MBC_S12	0.283	2.75	50.7	MBC_D12	0.285	2.77	50.8
180.000	MBC_S12	0.284	0.46	51.2	MBC_D12	0.284	0.46	51.2
183.762	MBC_S12	0.284	1.07	52.2	MBC_D12	0.284	1.07	52.3
187.770	MBC_S12	0.284	1.14	53.4	MBC_D12	0.284	1.14	53.4
191.734	MBC_S12	0.284	1.13	54.5	MBC_D12	0.284	1.13	54.6
198.375	MBC_S12	0.284	1.89	56.4	MBC_D12	0.284	1.89	56.5
200.000	MBC_S12	0.284	0.46	56.8	MBC_D12	0.284	0.46	56.9
201.092	MBC_S12	0.284	0.31	57.2	MBC_D12	0.284	0.31	57.2
206.302	MBC_S12	0.284	1.48	58.6	MBC_D12	0.284	1.48	58.7
206.302	MBC_S12	0.284	0.00	58.6	MBC_D12	0.285	0.00	58.7
218.361	MBC_S12	0.284	3.43	62.1	MBC_D12	0.285	3.43	62.1
220.000	MBC_S12	0.284	0.47	62.5	MBC_D12	0.284	0.47	62.6
240.000	MBC_S12	0.355	7.11	69.6	MBC_D12	0.355	7.10	69.7
249.885	MBC_S12	0.356	3.51	73.1	MBC_D12	0.355	3.51	73.2
249.885	MBC_S12	0.356	0.00	73.1	MBC_D12	0.355	0.00	73.2
252.245	MBC_S12	0.355	0.84	74.0	MBC_D12	0.355	0.84	74.1
252.245	MBC_S12	0.355	0.00	74.0	MBC_D12	0.355	0.00	74.1
260.000	MBC_S12	0.356	2.76	76.7	MBC_D12	0.355	2.75	76.8
266.648	MBC_S12	0.355	2.36	79.1	MBC_D12	0.355	2.36	79.2
278.188	MBC_S12	0.356	4.10	83.2	MBC_D12	0.355	4.10	83.3
278.188	MBC_S12	0.356	0.00	83.2	MBC_D12	0.355	0.00	83.3
280.000	MBC_S12	0.356	0.64	83.8	MBC_D12	0.355	0.64	83.9
280.548	MBC_S12	0.356	0.19	84.0	MBC_D12	0.355	0.19	84.1
280.548	MBC_S12	0.356	0.00	84.0	MBC_D12	0.355	0.00	84.1
289.528	MBC_S12	0.356	3.19	87.2	MBC_D12	0.355	3.19	87.3
300.000	MBC_S12	0.356	3.73	91.0	MBC_D12	0.355	3.72	91.0
303.583	MBC_S12	0.355	1.27	92.2	MBC_D12	0.355	1.27	92.3
303.583	MBC_S12	0.355	0.00	92.2	MBC_D12	0.355	0.00	92.3
305.942	MBC_S12	0.355	0.84	93.1	MBC_D12	0.355	0.84	93.1
305.942	MBC_S12	0.355	0.00	93.1	MBC_D12	0.355	0.00	93.1
312.408	MBC_S12	0.355	2.30	95.4	MBC_D12	0.355	2.30	95.4
320.000	MBC_S12	0.355	2.70	98.1	MBC_D12	0.355	2.70	98.1
340.000	MBC_S12	0.356	7.10	105.2	MBC_D12	0.355	7.10	105.2
360.000	MBC_S12	0.356	7.11	112.3	MBC_D12	0.355	7.10	112.3
380.000	MBC_S12	0.356	7.11	119.4	MBC_D12	0.355	7.10	119.4
389.544	MBC_S12	0.356	3.39	122.8	MBC_D12	0.355	3.39	122.8
400.000	MBC_S12	0.356	3.72	126.5	MBC_D12	0.355	3.71	126.5
400.174	MBC_S12	0.356	0.06	126.6	MBC_D12	0.355	0.06	126.6
409.812	MBC_S12	0.356	3.43	130.0	MBC_D12	0.355	3.42	130.0
409.812	MBC_S12	0.356	0.00	130.0	MBC_D12	0.355	0.00	130.0
410.804	MBC_S12	0.356	0.35	130.3	MBC_D12	0.355	0.35	130.4
412.171	MBC_S12	0.355	0.49	130.8	MBC_D12	0.355	0.49	130.9
412.171	MBC_S12	0.355	0.00	130.8	MBC_D12	0.355	0.00	130.9
420.000	MBC_S12	0.355	2.78	133.6	MBC_D12	0.355	2.78	133.6



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 1: BORDILLO MEDIANA CALZADA ESTE

***** RESUMEN DE VOLUMENES TOTALES *****	
MATERIAL	VOLUMEN
MBC_S12	133.6
MBC_D12	133.6

Istram 9.04 18/02/20 10:33:39 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 2: BORDILLO MEDIANA CALZADA OESTE

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****	
*****	CAPAS DE FIRME *****

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	MBC_S12	0.284	0.00	0.0	MBC-D12	0.285	0.00	0.0
4.640	MBC_S12	0.284	1.32	1.3	MBC-D12	0.284	1.32	1.3
4.640	MBC_S12	0.284	0.00	1.3	MBC-D12	0.284	0.00	1.3
7.000	MBC_S12	0.285	0.67	2.0	MBC-D12	0.284	0.67	2.0
7.000	MBC_S12	0.285	0.00	2.0	MBC-D12	0.284	0.00	2.0
20.000	MBC_S12	0.284	3.70	5.7	MBC-D12	0.284	3.70	5.7
40.000	MBC_S12	0.285	5.69	11.4	MBC-D12	0.284	5.69	11.4
60.000	MBC_S12	0.284	5.69	17.1	MBC-D12	0.285	5.69	17.1
80.000	MBC_S12	0.284	5.69	22.8	MBC-D12	0.284	5.69	22.8
91.109	MBC_S12	0.284	3.16	25.9	MBC-D12	0.285	3.16	25.9
91.109	MBC_S12	0.284	0.00	25.9	MBC-D12	0.285	0.00	25.9
93.469	MBC_S12	0.284	0.67	26.6	MBC-D12	0.284	0.67	26.6
93.469	MBC_S12	0.284	0.00	26.6	MBC-D12	0.284	0.00	26.6
100.000	MBC_S12	0.284	1.86	28.5	MBC-D12	0.285	1.86	28.4
102.895	MBC_S12	0.284	0.82	29.3	MBC-D12	0.285	0.82	29.3
120.000	MBC_S12	0.285	4.87	34.1	MBC-D12	0.284	4.87	34.1
137.105	MBC_S12	0.284	4.86	39.0	MBC-D12	0.285	4.87	39.0
140.000	MBC_S12	0.284	0.82	39.8	MBC-D12	0.285	0.82	39.8
148.333	MBC_S12	0.284	2.37	42.2	MBC-D12	0.284	2.37	42.2
148.333	MBC_S12	0.284	0.00	42.2	MBC-D12	0.284	0.00	42.2
150.693	MBC_S12	0.284	0.67	42.9	MBC-D12	0.285	0.67	42.9
150.693	MBC_S12	0.284	0.00	42.9	MBC-D12	0.285	0.00	42.9
159.354	MBC_S12	0.284	2.46	45.3	MBC-D12	0.284	2.46	45.3
159.354	MBC_S12	0.284	0.00	45.3	MBC-D12	0.284	0.00	45.3
160.000	MBC_S12	0.284	0.18	45.5	MBC-D12	0.285	0.18	45.5
161.714	MBC_S12	0.285	0.49	46.0	MBC-D12	0.284	0.49	46.0
161.714	MBC_S12	0.285	0.00	46.0	MBC-D12	0.284	0.00	46.0
172.143	MBC_S12	0.284	2.97	49.0	MBC-D12	0.285	2.97	49.0
180.000	MBC_S12	0.284	2.23	51.2	MBC-D12	0.285	2.24	51.2
191.974	MBC_S12	0.285	3.41	54.6	MBC-D12	0.284	3.41	54.6
194.227	MBC_S12	0.284	0.64	55.3	MBC-D12	0.285	0.64	55.3
200.000	MBC_S12	0.284	1.64	56.9	MBC-D12	0.285	1.64	56.9
211.804	MBC_S12	0.284	3.36	60.2	MBC-D12	0.285	3.36	60.3
220.000	MBC_S12	0.285	2.33	62.6	MBC-D12	0.284	2.33	62.6
220.000	MBC_S12	0.356	0.00	62.6	MBC-D12	0.355	0.00	62.6
240.000	MBC_S12	0.356	7.11	69.7	MBC-D12	0.355	7.10	69.7
251.443	MBC_S12	0.356	4.07	73.8	MBC-D12	0.355	4.06	73.8
251.443	MBC_S12	0.356	0.00	73.8	MBC-D12	0.355	0.00	73.8
253.803	MBC_S12	0.356	0.84	74.6	MBC-D12	0.355	0.84	74.6
253.803	MBC_S12	0.356	0.00	74.6	MBC-D12	0.355	0.00	74.6
253.962	MBC_S12	0.356	0.06	74.7	MBC-D12	0.355	0.06	74.7
260.000	MBC_S12	0.355	2.15	76.8	MBC-D12	0.355	2.14	76.8
267.398	MBC_S12	0.356	2.63	79.4	MBC-D12	0.355	2.63	79.4
280.000	MBC_S12	0.355	4.48	83.9	MBC-D12	0.355	4.48	83.9
280.834	MBC_S12	0.355	0.30	84.2	MBC-D12	0.355	0.30	84.2
300.000	MBC_S12	0.355	6.81	91.0	MBC-D12	0.355	6.81	91.0
308.778	MBC_S12	0.356	3.12	94.1	MBC-D12	0.355	3.12	94.1
320.000	MBC_S12	0.355	3.99	98.1	MBC-D12	0.355	3.98	98.1
321.543	MBC_S12	0.355	0.55	98.7	MBC-D12	0.355	0.55	98.7



Istram 9.04 18/02/20 10:33:39 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 2: BORDILLO MEDIANA CALZADA OESTE

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
*** CAPAS DE FIRME ***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
334.307	MBC_S12	0.356	4.54	103.2	MBC-D12	0.355	4.53	103.2
340.000	MBC_S12	0.356	2.02	105.2	MBC-D12	0.355	2.02	105.2
354.202	MBC_S12	0.356	5.05	110.3	MBC-D12	0.355	5.04	110.3
354.202	MBC_S12	0.356	0.00	110.3	MBC-D12	0.355	0.00	110.3
356.562	MBC_S12	0.356	0.84	111.1	MBC-D12	0.355	0.84	111.1
356.562	MBC_S12	0.356	0.00	111.1	MBC-D12	0.355	0.00	111.1
360.000	MBC_S12	0.356	1.22	112.4	MBC-D12	0.355	1.22	112.3
380.000	MBC_S12	0.355	7.11	119.5	MBC-D12	0.355	7.10	119.4
400.000	MBC_S12	0.356	7.11	126.6	MBC-D12	0.355	7.11	126.5
402.894	MBC_S12	0.355	1.03	127.6	MBC-D12	0.355	1.03	127.6
412.763	MBC_S12	0.355	3.51	131.1	MBC-D12	0.355	3.51	131.1
420.000	MBC_S12	0.356	2.57	133.7	MBC-D12	0.355	2.57	133.6

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
MBC_S12	133.7
MBC-D12	133.6

Istram 9.04 18/02/20 10:33:39 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 3: GLORIETA INTERSECCION CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES***
*** CAPAS DE FIRME ***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	ZA_ART	2.525	0.00	0.0	MBC_G25	0.909	0.00	0.0
	MBC_G25	0.808	0.00	0.0	MBC_S20	0.809	0.00	0.0
	MBC_D12	0.505	0.00	0.0				
2.000	ZA_ART	2.525	5.05	5.1	MBC_G25	0.910	1.82	1.8
	MBC_G25	0.808	1.62	1.6	MBC_S20	0.808	1.62	1.6
	MBC_D12	0.505	1.01	1.0				
4.000	ZA_ART	2.525	5.05	10.1	MBC_G25	0.910	1.82	3.6
	MBC_G25	0.808	1.62	3.2	MBC_S20	0.808	1.62	3.2
	MBC_D12	0.505	1.01	2.0				
6.000	ZA_ART	2.525	5.05	15.2	MBC_G25	0.909	1.82	5.5
	MBC_G25	0.808	1.62	4.8	MBC_S20	0.809	1.62	4.9
	MBC_D12	0.505	1.01	3.0				
8.000	ZA_ART	2.525	5.05	20.2	MBC_G25	0.910	1.82	7.3
	MBC_G25	0.808	1.62	6.5	MBC_S20	0.808	1.62	6.5
	MBC_D12	0.505	1.01	4.0				
10.000	ZA_ART	2.525	5.05	25.3	MBC_G25	0.910	1.82	9.1
	MBC_G25	0.808	1.62	8.1	MBC_S20	0.809	1.62	8.1
	MBC_D12	0.505	1.01	5.0				
10.500	ZA_ART	2.517	1.26	26.5	MBC_G25	0.907	0.45	9.6
	MBC_G25	0.805	0.40	8.5	MBC_S20	0.806	0.40	8.5
	MBC_D12	0.504	0.25	5.3				
12.000	ZA_ART	2.525	3.78	30.3	MBC_G25	0.910	1.36	10.9
	MBC_G25	0.808	1.21	9.7	MBC_S20	0.808	1.21	9.7
	MBC_D12	0.505	0.76	6.1				



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 3: GLORIETA INTERSECCION CARRETERA N-120

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
14.000	ZA ART	2.525	5.05	35.3	MBC G25	0.909	1.82	12.7
	MBC_G25	0.808	1.62	11.3	MBC_S20	0.809	1.62	11.3
	MBC_D12	0.505	1.01	7.1				
16.000	ZA ART	2.525	5.05	40.4	MBC G25	0.909	1.82	14.6
	MBC_G25	0.808	1.62	12.9	MBC_S20	0.808	1.62	12.9
	MBC_D12	0.505	1.01	8.1				
18.000	ZA ART	2.525	5.05	45.4	MBC G25	0.910	1.82	16.4
	MBC_G25	0.808	1.62	14.5	MBC_S20	0.809	1.62	14.5
	MBC_D12	0.505	1.01	9.1				
20.000	ZA ART	2.525	5.05	50.5	MBC G25	0.909	1.82	18.2
	MBC_G25	0.808	1.62	16.2	MBC_S20	0.809	1.62	16.2
	MBC_D12	0.505	1.01	10.1				
22.000	ZA ART	2.525	5.05	55.5	MBC G25	0.909	1.82	20.0
	MBC_G25	0.808	1.62	17.8	MBC_S20	0.809	1.62	17.8
	MBC_D12	0.505	1.01	11.1				
24.000	ZA ART	2.525	5.05	60.6	MBC G25	0.910	1.82	21.8
	MBC_G25	0.808	1.62	19.4	MBC_S20	0.809	1.62	19.4
	MBC_D12	0.505	1.01	12.1				
26.000	ZA ART	2.525	5.05	65.6	MBC G25	0.910	1.82	23.6
	MBC_G25	0.808	1.62	21.0	MBC_S20	0.808	1.62	21.0
	MBC_D12	0.505	1.01	13.1				
28.000	ZA ART	2.525	5.05	70.7	MBC G25	0.910	1.82	25.5
	MBC_G25	0.807	1.61	22.6	MBC_S20	0.808	1.62	22.6
	MBC_D12	0.505	1.01	14.1				
30.000	ZA ART	2.525	5.05	75.7	MBC G25	0.910	1.82	27.3
	MBC_G25	0.808	1.62	24.2	MBC_S20	0.808	1.62	24.2
	MBC_D12	0.505	1.01	15.2				
32.000	ZA ART	2.525	5.05	80.8	MBC G25	0.910	1.82	29.1
	MBC_G25	0.807	1.62	25.8	MBC_S20	0.809	1.62	25.9
	MBC_D12	0.505	1.01	16.2				
34.000	ZA ART	2.525	5.05	85.8	MBC G25	0.910	1.82	30.9
	MBC_G25	0.808	1.62	27.5	MBC_S20	0.808	1.62	27.5
	MBC_D12	0.505	1.01	17.2				
36.000	ZA ART	2.525	5.05	90.9	MBC G25	0.910	1.82	32.7
	MBC_G25	0.807	1.62	29.1	MBC_S20	0.808	1.62	29.1
	MBC_D12	0.505	1.01	18.2				
37.500	ZA ART	2.517	3.78	94.7	MBC G25	0.906	1.36	34.1
	MBC_G25	0.806	1.21	30.3	MBC_S20	0.806	1.21	30.3
	MBC_D12	0.503	0.76	18.9				
38.000	ZA ART	2.525	1.26	95.9	MBC G25	0.910	0.45	34.6
	MBC_G25	0.808	0.40	30.7	MBC_S20	0.808	0.40	30.7
	MBC_D12	0.505	0.25	19.2				
40.000	ZA ART	2.525	5.05	101.0	MBC G25	0.910	1.82	36.4
	MBC_G25	0.808	1.62	32.3	MBC_S20	0.808	1.62	32.3
	MBC_D12	0.505	1.01	20.2				
42.000	ZA ART	2.526	5.05	106.0	MBC G25	0.910	1.82	38.2
	MBC_G25	0.808	1.62	33.9	MBC_S20	0.809	1.62	33.9
	MBC_D12	0.506	1.01	21.2				
44.000	ZA ART	2.525	5.05	111.1	MBC G25	0.910	1.82	40.0
	MBC_G25	0.808	1.62	35.5	MBC_S20	0.809	1.62	35.6
	MBC_D12	0.505	1.01	22.2				
46.000	ZA ART	2.525	5.05	116.1	MBC G25	0.910	1.82	41.8
	MBC_G25	0.807	1.62	37.2	MBC_S20	0.808	1.62	37.2
	MBC_D12	0.505	1.01	23.2				
48.000	ZA ART	2.525	5.05	121.2	MBC G25	0.910	1.82	43.7
	MBC_G25	0.808	1.62	38.8	MBC_S20	0.808	1.62	38.8
	MBC_D12	0.505	1.01	24.2				
50.000	ZA ART	2.525	5.05	126.2	MBC G25	0.910	1.82	45.5
	MBC_G25	0.808	1.62	40.4	MBC_S20	0.808	1.62	40.4
	MBC_D12	0.505	1.01	25.3				
52.000	ZA ART	2.481	5.01	131.2	MBC G25	0.894	1.80	47.3
	MBC_G25	0.793	1.60	42.0	MBC_S20	0.794	1.60	42.0
	MBC_D12	0.497	1.00	26.3				
54.000	ZA ART	2.525	5.01	136.3	MBC G25	0.910	1.80	49.1
	MBC_G25	0.808	1.60	43.6	MBC_S20	0.809	1.60	43.6
	MBC_D12	0.505	1.00	27.3				
56.000	ZA ART	2.525	5.05	141.3	MBC G25	0.910	1.82	50.9
	MBC_G25	0.808	1.62	45.2	MBC_S20	0.809	1.62	45.2
	MBC_D12	0.505	1.01	28.3				



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 3: GLORIETA INTERSECCION CARRETERA N-120

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
58.000	ZA ART	2.525	5.05	146.4	MBC G25	0.910	1.82	52.7
	MBC_G25	0.808	1.62	46.8	MBC_S20	0.808	1.62	46.9
	MBC_D12	0.505	1.01	29.3				
60.000	ZA ART	2.525	5.05	151.4	MBC G25	0.910	1.82	54.5
	MBC_G25	0.807	1.62	48.4	MBC_S20	0.808	1.62	48.5
	MBC_D12	0.505	1.01	30.3				
62.000	ZA ART	2.525	5.05	156.5	MBC G25	0.909	1.82	56.4
	MBC_G25	0.808	1.62	50.1	MBC_S20	0.808	1.62	50.1
	MBC_D12	0.505	1.01	31.3				
64.000	ZA ART	2.525	5.05	161.5	MBC G25	0.910	1.82	58.2
	MBC_G25	0.807	1.62	51.7	MBC_S20	0.808	1.62	51.7
	MBC_D12	0.505	1.01	32.3				
64.500	ZA ART	2.517	1.26	162.8	MBC G25	0.907	0.45	58.6
	MBC_G25	0.805	0.40	52.1	MBC_S20	0.806	0.40	52.1
	MBC_D12	0.504	0.25	32.6				
66.000	ZA ART	2.525	3.78	166.5	MBC G25	0.910	1.36	60.0
	MBC_G25	0.808	1.21	53.3	MBC_S20	0.808	1.21	53.3
	MBC_D12	0.505	0.76	33.3				
68.000	ZA ART	2.525	5.05	171.6	MBC G25	0.910	1.82	61.8
	MBC_G25	0.808	1.62	54.9	MBC_S20	0.808	1.62	54.9
	MBC_D12	0.505	1.01	34.3				
70.000	ZA ART	2.525	5.05	176.6	MBC G25	0.909	1.82	63.6
	MBC_G25	0.808	1.62	56.5	MBC_S20	0.809	1.62	56.5
	MBC_D12	0.505	1.01	35.3				
72.000	ZA ART	2.525	5.05	181.7	MBC G25	0.910	1.82	65.5
	MBC_G25	0.808	1.62	58.1	MBC_S20	0.808	1.62	58.2
	MBC_D12	0.505	1.01	36.4				
74.000	ZA ART	2.525	5.05	186.8	MBC G25	0.910	1.82	67.3
	MBC_G25	0.808	1.62	59.7	MBC_S20	0.808	1.62	59.8
	MBC_D12	0.505	1.01	37.4				
75.478	ZA ART	2.516	3.73	190.5	MBC G25	0.907	1.34	68.6
	MBC_G25	0.805	1.19	60.9	MBC_S20	0.806	1.19	61.0
	MBC_D12	0.503	0.75	38.1				
76.000	ZA ART	2.525	1.32	191.8	MBC G25	0.910	0.47	69.1
	MBC_G25	0.808	0.42	61.4	MBC_S20	0.808	0.42	61.4
	MBC_D12	0.505	0.26	38.4				
78.000	ZA ART	2.525	5.05	196.8	MBC G25	0.910	1.82	70.9
	MBC_G25	0.807	1.61	63.0	MBC_S20	0.808	1.62	63.0
	MBC_D12	0.505	1.01	39.4				
80.000	ZA ART	2.525	5.05	201.9	MBC G25	0.909	1.82	72.7
	MBC_G25	0.808	1.62	64.6	MBC_S20	0.809	1.62	64.6
	MBC_D12	0.505	1.01	40.4				
82.000	ZA ART	2.525	5.05	206.9	MBC G25	0.910	1.82	74.6
	MBC_G25	0.808	1.62	66.2	MBC_S20	0.808	1.62	66.2
	MBC_D12	0.505	1.01	41.4				
84.000	ZA ART	2.525	5.05	212.0	MBC G25	0.910	1.82	76.4
	MBC_G25	0.808	1.62	67.8	MBC_S20	0.809	1.62	67.9
	MBC_D12	0.505	1.01	42.4				
86.000	ZA ART	2.525	5.05	217.0	MBC G25	0.910	1.82	78.2
	MBC_G25	0.808	1.62	69.4	MBC_S20	0.808	1.62	69.5
	MBC_D12	0.505	1.01	43.4				
88.000	ZA ART	2.525	5.05	222.1	MBC G25	0.910	1.82	80.0
	MBC_G25	0.808	1.62	71.0	MBC_S20	0.809	1.62	71.1
	MBC_D12	0.505	1.01	44.4				
90.000	ZA ART	2.525	5.05	227.1	MBC G25	0.910	1.82	81.8
	MBC_G25	0.808	1.62	72.7	MBC_S20	0.808	1.62	72.7
	MBC_D12	0.505	1.01	45.4				
92.000	ZA ART	2.525	5.05	232.2	MBC G25	0.910	1.82	83.7
	MBC_G25	0.808	1.62	74.3	MBC_S20	0.809	1.62	74.3
	MBC_D12	0.505	1.01	46.5				
92.478	ZA ART	2.517	1.21	233.4	MBC G25	0.907	0.43	84.1
	MBC_G25	0.805	0.39	74.7	MBC_S20	0.806	0.39	74.7
	MBC_D12	0.503	0.24	46.7				
94.000	ZA ART	2.525	3.84	237.2	MBC G25	0.909	1.38	85.5
	MBC_G25	0.808	1.23	75.9	MBC_S20	0.809	1.23	75.9
	MBC_D12	0.505	0.77	47.5				
96.000	ZA ART	2.525	5.05	242.3	MBC G25	0.910	1.82	87.3
	MBC_G25	0.808	1.62	77.5	MBC_S20	0.809	1.62	77.6
	MBC_D12	0.505	1.01	48.5				



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 3: GLORIETA INTERSECCION CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
*** CAPAS DE FIRME ***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
98.000	ZA_ART	2.525	5.05	247.3	MBC_G25	0.909	1.82	89.1
	MBC_G25	0.808	1.62	79.1	MBC_S20	0.809	1.62	79.2
	MBC_D12	0.505	1.01	49.5				
100.000	ZA_ART	2.525	5.05	252.4	MBC_G25	0.910	1.82	90.9
	MBC_G25	0.808	1.62	80.7	MBC_S20	0.809	1.62	80.8
	MBC_D12	0.505	1.01	50.5				
102.000	ZA_ART	2.525	5.05	257.4	MBC_G25	0.909	1.82	92.8
	MBC_G25	0.808	1.62	82.4	MBC_S20	0.809	1.62	82.4
	MBC_D12	0.505	1.01	51.5				
104.000	ZA_ART	2.525	5.05	262.5	MBC_G25	0.910	1.82	94.6
	MBC_G25	0.808	1.62	84.0	MBC_S20	0.808	1.62	84.0
	MBC_D12	0.505	1.01	52.5				
106.000	ZA_ART	2.525	5.05	267.5	MBC_G25	0.909	1.82	96.4
	MBC_G25	0.808	1.62	85.6	MBC_S20	0.809	1.62	85.6
	MBC_D12	0.505	1.01	53.5				
108.000	ZA_ART	2.525	5.05	272.6	MBC_G25	0.910	1.82	98.2
	MBC_G25	0.808	1.62	87.2	MBC_S20	0.809	1.62	87.3
	MBC_D12	0.505	1.01	54.5				
109.478	ZA_ART	2.518	3.73	276.3	MBC_G25	0.907	1.34	99.5
	MBC_G25	0.805	1.19	88.4	MBC_S20	0.806	1.19	88.5
	MBC_D12	0.504	0.75	55.3				
109.956	ZA_ART	2.525	1.21	277.5	MBC_G25	0.909	0.43	100.0
	MBC_G25	0.808	0.39	88.8	MBC_S20	0.809	0.39	88.8
	MBC_D12	0.505	0.24	55.5				

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
ZA_ART	277.5
MBC_G25	100.0
MBC_G25	88.8
MBC_S20	88.8
MBC_D12	55.5



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 4: RAMAL NORESTE GLORIETA CARRETERA N-120

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

* * * CAPAS DE FIRME * * *

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000								
12.834	MBC_S12	0.010	0.07	0.1	MBC_D12	0.010	0.06	0.1
15.000	MBC_S12	0.011	0.02	0.1	MBC_D12	0.011	0.02	0.1
16.151	MBC_S12	0.021	0.02	0.1	MBC_D12	0.021	0.02	0.1
18.000	MBC_S12	0.036	0.05	0.2	MBC_D12	0.036	0.05	0.2
20.000	MBC_S12	0.052	0.09	0.2	MBC_D12	0.052	0.09	0.2
20.812	MBC_S12	0.058	0.04	0.3	MBC_D12	0.058	0.04	0.3
22.000	MBC_S12	0.068	0.08	0.4	MBC_D12	0.068	0.07	0.4
24.000	MBC_S12	0.084	0.15	0.5	MBC_D12	0.084	0.15	0.5
26.000	MBC_S12	0.100	0.18	0.7	MBC_D12	0.100	0.18	0.7
28.000	MBC_S12	0.156	0.26	1.0	MBC_D12	0.156	0.26	1.0
28.790	MBC_S12	0.178	0.13	1.1	MBC_D12	0.177	0.13	1.1
29.051	MBC_S12	0.185	0.05	1.1	MBC_D12	0.185	0.05	1.1
30.000	MBC_S12	0.211	0.19	1.3	MBC_D12	0.211	0.19	1.3
32.000	MBC_S12	0.135	0.35	1.7	MBC_D12	0.134	0.34	1.7
33.205	MBC_S12	0.094	0.14	1.8	MBC_D12	0.094	0.14	1.8
34.000	MBC_S12	0.072	0.07	1.9	MBC_D12	0.071	0.07	1.9
36.000	MBC_S12	0.033	0.10	2.0	MBC_D12	0.033	0.10	2.0
37.548	MBC_S12	0.014	0.04	2.0	MBC_D12	0.014	0.04	2.0
38.000	MBC_S12	0.011	0.01	2.0	MBC_D12	0.010	0.01	2.0
40.000	MBC_S12	0.001	0.01	2.0	MBC_D12	0.001	0.01	2.0
40.131	MBC_S12	0.002	0.00	2.0	MBC_D12	0.001	0.00	2.0
40.232	MBC_S12	0.002	0.00	2.0	MBC_D12	0.001	0.00	2.0
41.782	MBC_S12	0.007	0.01	2.0	MBC_D12	0.006	0.01	2.0
42.000	MBC_S12	0.008	0.00	2.0	MBC_D12	0.007	0.00	2.0
44.000	MBC_S12	0.027	0.03	2.1	MBC_D12	0.027	0.03	2.1
44.007	MBC_S12	0.027	0.00	2.1	MBC_D12	0.027	0.00	2.1
46.000	MBC_S12	0.061	0.09	2.2	MBC_D12	0.060	0.09	2.2
46.045	MBC_S12	0.062	0.00	2.2	MBC_D12	0.061	0.00	2.2
46.391	MBC_S12	0.070	0.02	2.2	MBC_D12	0.070	0.02	2.2
48.000	MBC_S12	0.114	0.15	2.3	MBC_D12	0.114	0.15	2.3
50.000	MBC_S12	0.194	0.31	2.6	MBC_D12	0.193	0.31	2.6
52.000	MBC_S12	0.311	0.50	3.2	MBC_D12	0.311	0.50	3.1
52.538	MBC_S12	0.352	0.18	3.3	MBC_D12	0.352	0.18	3.3
54.000	MBC_S12	0.421	0.57	3.9	MBC_D12	0.421	0.57	3.9
55.437	MBC_S12	0.409	0.60	4.5	MBC_D12	0.408	0.60	4.5
56.000	MBC_S12	0.404	0.23	4.7	MBC_D12	0.405	0.23	4.7
56.801	MBC_S12	0.399	0.32	5.0	MBC_D12	0.400	0.32	5.0
58.000	MBC_S12	0.392	0.47	5.5	MBC_D12	0.392	0.48	5.5
58.171	MBC_S12	0.392	0.07	5.6	MBC_D12	0.391	0.07	5.6
59.548	MBC_S12	0.383	0.53	6.1	MBC_D12	0.383	0.53	6.1
60.000	MBC_S12	0.380	0.17	6.3	MBC_D12	0.381	0.17	6.3
60.930	MBC_S12	0.376	0.35	6.6	MBC_D12	0.376	0.35	6.6
62.000	MBC_S12	0.371	0.40	7.0	MBC_D12	0.370	0.40	7.0
62.318	MBC_S12	0.368	0.12	7.2	MBC_D12	0.368	0.12	7.1
63.711	MBC_S12	0.362	0.51	7.7	MBC_D12	0.361	0.51	7.7
64.000	MBC_S12	0.361	0.10	7.8	MBC_D12	0.362	0.10	7.8
66.000	MBC_S12	0.360	0.72	8.5	MBC_D12	0.360	0.72	8.5
66.344	MBC_S12	0.360	0.12	8.6	MBC_D12	0.360	0.12	8.6

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* * * RESUMEN DE VOLUMENES TOTALES * * *

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MATERIAL	VOLUMEN
MBC_S12	8.6
MBC_D12	8.6



Istram 9.04 18/02/20 10:33:39 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 5: RAMAL NOROESTE GLORIETA CARRETERA N-120

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	MBC_S12	0.355	0.00	0.0	MBC_D12	0.355	0.00	0.0
5.628	MBC_S12	0.355	2.00	2.0	MBC_D12	0.355	2.00	2.0
10.424	MBC_S12	0.381	1.76	3.8	MBC_D12	0.381	1.76	3.8
12.000	MBC_S12	0.388	0.61	4.4	MBC_D12	0.389	0.61	4.4
12.132	MBC_S12	0.389	0.05	4.4	MBC_D12	0.390	0.05	4.4
14.000	MBC_S12	0.413	0.75	5.2	MBC_D12	0.413	0.75	5.2
14.551	MBC_S12	0.420	0.23	5.4	MBC_D12	0.420	0.23	5.4
15.744	MBC_S12	0.435	0.51	5.9	MBC_D12	0.435	0.51	5.9
16.000	MBC_S12	0.439	0.11	6.0	MBC_D12	0.439	0.11	6.0
16.927	MBC_S12	0.452	0.41	6.4	MBC_D12	0.451	0.41	6.4
18.000	MBC_S12	0.467	0.49	6.9	MBC_D12	0.466	0.49	6.9
18.101	MBC_S12	0.468	0.05	7.0	MBC_D12	0.467	0.05	7.0
20.000	MBC_S12	0.445	0.87	7.8	MBC_D12	0.445	0.87	7.8
21.352	MBC_S12	0.422	0.59	8.4	MBC_D12	0.422	0.59	8.4
22.000	MBC_S12	0.356	0.25	8.7	MBC_D12	0.355	0.25	8.7
24.000	MBC_S12	0.218	0.57	9.3	MBC_D12	0.217	0.57	9.2
26.000	MBC_S12	0.128	0.35	9.6	MBC_D12	0.127	0.34	9.6
28.000	MBC_S12	0.069	0.20	9.8	MBC_D12	0.069	0.20	9.8
30.000	MBC_S12	0.032	0.10	9.9	MBC_D12	0.031	0.10	9.9
32.000	MBC_S12	0.009	0.04	9.9	MBC_D12	0.009	0.04	9.9
33.335	MBC_S12	0.003	0.01	9.9	MBC_D12	0.003	0.01	9.9
33.988	MBC_S12	0.002	0.00	9.9	MBC_D12	0.001	0.00	9.9
34.000	MBC_S12	0.002	0.00	9.9	MBC_D12	0.001	0.00	9.9
34.003	MBC_S12	0.002	0.00	9.9	MBC_D12	0.001	0.00	9.9
35.968	MBC_S12	0.000	0.00	9.9	MBC_D12	0.000	0.00	9.9
36.000	MBC_S12	0.000	0.00	9.9	MBC_D12	0.000	0.00	9.9
38.000	MBC_S12	0.012	0.01	10.0	MBC_D12	0.012	0.01	10.0
40.000	MBC_S12	0.066	0.08	10.0	MBC_D12	0.066	0.08	10.0
40.550	MBC_S12	0.083	0.04	10.1	MBC_D12	0.083	0.04	10.1
42.000	MBC_S12	0.130	0.15	10.2	MBC_D12	0.130	0.15	10.2
44.000	MBC_S12	0.220	0.35	10.6	MBC_D12	0.219	0.35	10.6
46.000	MBC_S12	0.357	0.58	11.2	MBC_D12	0.357	0.58	11.1
48.000	MBC_S12	0.502	0.86	12.0	MBC_D12	0.503	0.86	12.0
50.000	MBC_S12	0.465	0.97	13.0	MBC_D12	0.464	0.97	13.0
51.707	MBC_S12	0.439	0.77	13.8	MBC_D12	0.440	0.77	13.7
52.000	MBC_S12	0.436	0.13	13.9	MBC_D12	0.437	0.13	13.9
54.000	MBC_S12	0.418	0.85	14.7	MBC_D12	0.417	0.85	14.7
56.000	MBC_S12	0.409	0.83	15.6	MBC_D12	0.409	0.83	15.6
56.213	MBC_S12	0.408	0.09	15.7	MBC_D12	0.408	0.09	15.6
57.326	MBC_S12	0.405	0.45	16.1	MBC_D12	0.405	0.45	16.1
59.322	MBC_S12	0.402	0.81	16.9	MBC_D12	0.402	0.81	16.9
60.000	MBC_S12	0.401	0.27	17.2	MBC_D12	0.401	0.27	17.2
71.598	MBC_S12	0.389	4.58	21.8	MBC_D12	0.389	4.58	21.8
73.958	MBC_S12	0.387	0.92	22.7	MBC_D12	0.387	0.92	22.7
80.000	MBC_S12	0.382	2.32	25.0	MBC_D12	0.383	2.33	25.0

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
MBC_S12	25.0
MBC_D12	25.0



Istram 9.04 18/02/20 10:33:39 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 6: CALLE DEL PARAMO

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

* * * CAPAS DE FIRME * * *

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	MBC_S12	0.250	0.00	0.0	MBC_D12	0.251	0.00	0.0
10.735	MBC_S12	0.275	2.82	2.8	MBC_D12	0.274	2.82	2.8
10.735	MBC_S12	0.274	0.00	2.8	MBC_D12	0.273	0.00	2.8
10.809	MBC_S12	0.274	0.02	2.8	MBC_D12	0.274	0.02	2.8
10.809	MBC_S12	0.273	0.00	2.8	MBC_D12	0.274	0.00	2.8
10.883	MBC_S12	0.274	0.02	2.9	MBC_D12	0.274	0.02	2.9
11.486	MBC_S12	0.276	0.17	3.0	MBC_D12	0.276	0.17	3.0
11.490	MBC_S12	0.276	0.00	3.0	MBC_D12	0.276	0.00	3.0
12.075	MBC_S12	0.278	0.16	3.2	MBC_D12	0.279	0.16	3.2
12.087	MBC_S12	0.278	0.00	3.2	MBC_D12	0.279	0.00	3.2
12.658	MBC_S12	0.283	0.16	3.4	MBC_D12	0.283	0.16	3.3
12.685	MBC_S12	0.283	0.01	3.4	MBC_D12	0.284	0.01	3.4
13.238	MBC_S12	0.290	0.16	3.5	MBC_D12	0.290	0.16	3.5
13.282	MBC_S12	0.291	0.01	3.5	MBC_D12	0.290	0.01	3.5
13.815	MBC_S12	0.298	0.16	3.7	MBC_D12	0.298	0.16	3.7
13.874	MBC_S12	0.299	0.02	3.7	MBC_D12	0.299	0.02	3.7
14.462	MBC_S12	0.304	0.18	3.9	MBC_D12	0.304	0.18	3.9
14.631	MBC_S12	0.306	0.05	3.9	MBC_D12	0.306	0.05	3.9
15.043	MBC_S12	0.310	0.13	4.1	MBC_D12	0.311	0.13	4.1
15.619	MBC_S12	0.317	0.18	4.2	MBC_D12	0.318	0.18	4.2
20.000	MBC_S12	0.318	1.39	5.6	MBC_D12	0.318	1.39	5.6
22.879	MBC_S12	0.318	0.92	6.5	MBC_D12	0.319	0.92	6.5
26.164	MBC_S12	0.319	1.05	7.6	MBC_D12	0.319	1.05	7.6
26.172	MBC_S12	0.159	0.00	7.6	MBC_D12	0.160	0.00	7.6
26.180	MBC_S12	0.000	0.00	7.6	MBC_D12	0.000	0.00	7.6
31.128	MBC_S12	0.000	0.00	7.6	MBC_D12	0.000	0.00	7.6
33.272	MBC_S12	0.000	0.00	7.6	MBC_D12	0.000	0.00	7.6

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* * * MEDICIONES DE LOS ACUERDOS EN LOS CRUCES * * *

* * * Cubicacion segun distancias compensadas * * *

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PK	EJE AC	MATERIAL	VOL. PARCIAL	MATERIAL	VOL. PARCIAL
0.000	1 DA	MBC_S12	1.51	MBC_D12	1.50
0.000	1 IA	MBC_S12	1.70	MBC_D12	1.69

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* * * RESUMEN DE VOLUMENES TOTALES * * *

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MATERIAL	VOLUMEN
MBC_S12	10.8
MBC_D12	10.8



Istram 9.04 18/02/20 11:56:04 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 7: RAMAL SUROESTE GLORIETA CARRETERA N-120

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
***** CAPAS DE FIRME *****

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	MBC_S12	0.831	0.00	0.0	MBC_D12	0.386	0.00	0.0
3.009	MBC_S12	0.840	2.51	2.5	MBC_D12	0.388	1.16	1.2
8.795	MBC_S12	0.857	4.91	7.4	MBC_D12	0.393	2.26	3.4
18.340	MBC_S12	0.884	8.31	15.7	MBC_D12	0.402	3.79	7.2
20.000	MBC_S12	0.890	1.47	17.2	MBC_D12	0.403	0.67	7.9
22.741	MBC_S12	0.898	2.45	19.7	MBC_D12	0.405	1.11	9.0
33.671	MBC_S12	0.932	10.00	29.7	MBC_D12	0.416	4.48	13.5
36.206	MBC_S12	0.941	2.37	32.0	MBC_D12	0.418	1.06	14.5
40.000	MBC_S12	0.953	3.59	35.6	MBC_D12	0.421	1.59	16.1
48.212	MBC_S12	0.976	7.92	43.5	MBC_D12	0.427	3.48	19.6
48.378	MBC_S12	0.977	0.16	43.7	MBC_D12	0.428	0.07	19.7
50.000	MBC_S12	0.988	1.59	45.3	MBC_D12	0.431	0.70	20.4
52.000	MBC_S12	1.000	1.99	47.3	MBC_D12	0.435	0.87	21.2
54.000	MBC_S12	1.015	2.02	49.3	MBC_D12	0.438	0.87	22.1
56.000	MBC_S12	1.028	2.04	51.3	MBC_D12	0.443	0.88	23.0
58.000	MBC_S12	1.043	2.07	53.4	MBC_D12	0.446	0.89	23.9
60.000	MBC_S12	1.056	2.10	55.5	MBC_D12	0.450	0.90	24.8
62.000	MBC_S12	0.726	1.78	57.3	MBC_D12	0.337	0.79	25.6
64.000	MBC_S12	0.508	1.23	58.5	MBC_D12	0.215	0.55	26.1
66.000	MBC_S12	0.323	0.83	59.4	MBC_D12	0.132	0.35	26.5
68.000	MBC_S12	0.179	0.50	59.9	MBC_D12	0.073	0.20	26.7
70.000	MBC_S12	0.085	0.26	60.1	MBC_D12	0.036	0.11	26.8
71.876	MBC_S12	0.036	0.11	60.2	MBC_D12	0.013	0.05	26.8
72.000	MBC_S12	0.034	0.00	60.2	MBC_D12	0.012	0.00	26.8
74.000	MBC_S12	0.002	0.04	60.3	MBC_D12	0.001	0.01	26.8
74.530	MBC_S12	0.003	0.00	60.3	MBC_D12	0.001	0.00	26.8
74.710	MBC_S12	0.005	0.00	60.3	MBC_D12	0.002	0.00	26.8
76.000	MBC_S12	0.014	0.01	60.3	MBC_D12	0.005	0.00	26.8
78.000	MBC_S12	0.057	0.07	60.4	MBC_D12	0.019	0.02	26.9
80.000	MBC_S12	0.132	0.19	60.6	MBC_D12	0.047	0.07	26.9
80.000	ZA_ART	0.320	0.00	60.6	MBC_G25	0.085	0.00	26.9
	MBC_G25	0.075	0.00	0.0	MBC_S20	0.075	0.00	0.0
	MBC_D12	0.047	0.00	0.0				
82.000	ZA_ART	0.624	0.94	61.5	MBC_G25	0.170	0.25	27.2
	MBC_G25	0.151	0.23	0.2	MBC_S20	0.151	0.23	0.2
	MBC_D12	0.094	0.14	0.1				
84.000	ZA_ART	1.023	1.65	63.1	MBC_G25	0.290	0.46	27.7
	MBC_G25	0.257	0.41	0.6	MBC_S20	0.258	0.41	0.6
	MBC_D12	0.161	0.26	0.4				
85.000	ZA_ART	1.251	1.14	64.3	MBC_G25	0.364	0.33	28.0
	MBC_G25	0.323	0.29	0.9	MBC_S20	0.324	0.29	0.9
	MBC_D12	0.202	0.18	0.6				
86.000	ZA_ART	1.523	1.39	65.7	MBC_G25	0.462	0.41	28.4
	MBC_G25	0.411	0.37	1.3	MBC_S20	0.411	0.37	1.3
	MBC_D12	0.257	0.23	0.8				
86.823	ZA_ART	1.814	1.37	67.0	MBC_G25	0.552	0.42	28.8
	MBC_G25	0.490	0.37	1.7	MBC_S20	0.490	0.37	1.7
	MBC_D12	0.307	0.23	1.0				
88.000	ZA_ART	2.565	2.58	69.6	MBC_G25	0.723	0.75	29.6
	MBC_G25	0.641	0.67	2.3	MBC_S20	0.642	0.67	2.3
	MBC_D12	0.402	0.42	1.5				
88.802	ZA_ART	3.332	2.36	72.0	MBC_G25	0.859	0.63	30.2
	MBC_G25	0.762	0.56	2.9	MBC_S20	0.762	0.56	2.9
	MBC_D12	0.477	0.35	1.8				
90.000	ZA_ART	3.282	3.96	75.9	MBC_G25	0.845	1.02	31.2
	MBC_G25	0.750	0.91	3.8	MBC_S20	0.750	0.91	3.8
	MBC_D12	0.470	0.57	2.4				
92.000	ZA_ART	3.199	6.48	82.4	MBC_G25	0.821	1.67	32.9
	MBC_G25	0.730	1.48	5.3	MBC_S20	0.731	1.48	5.3
	MBC_D12	0.456	0.93	3.3				
93.000	ZA_ART	3.158	3.18	85.6	MBC_G25	0.810	0.82	33.7
	MBC_G25	0.721	0.73	6.0	MBC_S20	0.721	0.73	6.0
	MBC_D12	0.450	0.45	3.8				
94.000	ZA_ART	3.104	3.13	88.7	MBC_G25	0.801	0.81	34.5
	MBC_G25	0.711	0.72	6.7	MBC_S20	0.713	0.72	6.7
	MBC_D12	0.444	0.45	4.2				
96.000	ZA_ART	2.584	5.69	94.4	MBC_G25	0.710	1.51	36.0
	MBC_G25	0.631	1.34	8.1	MBC_S20	0.631	1.34	8.1
	MBC_D12	0.394	0.84	5.0				



Istram 9.04 18/02/20 11:56:04 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 7: RAMAL SUROESTE GLORIETA CARRETERA N-120

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
98.000	ZA ART	2.198	4.78	99.2	MBC_G25	0.634	1.34	37.4
	MBC_G25	0.563	1.19	9.3	MBC_S20	0.564	1.19	9.3
	MBC_D12	0.352	0.75	5.8				
100.000	ZA ART	1.934	4.13	103.3	MBC_G25	0.576	1.21	38.6
	MBC_G25	0.513	1.08	10.3	MBC_S20	0.512	1.08	10.3
	MBC_D12	0.320	0.67	6.5				
102.000	ZA ART	1.748	3.68	107.0	MBC_G25	0.533	1.11	39.7
	MBC_G25	0.473	0.99	11.3	MBC_S20	0.473	0.99	11.3
	MBC_D12	0.296	0.62	7.1				
104.000	ZA ART	1.624	3.37	110.4	MBC_G25	0.501	1.03	40.7
	MBC_G25	0.445	0.92	12.2	MBC_S20	0.445	0.92	12.2
	MBC_D12	0.278	0.57	7.6				
105.727	ZA ART	1.555	2.75	113.1	MBC_G25	0.483	0.85	41.6
	MBC_G25	0.428	0.75	13.0	MBC_S20	0.429	0.76	13.0
	MBC_D12	0.268	0.47	8.1				
106.000	ZA ART	1.548	0.42	113.6	MBC_G25	0.481	0.13	41.7
	MBC_G25	0.427	0.12	13.1	MBC_S20	0.427	0.12	13.1
	MBC_D12	0.267	0.07	8.2				
108.000	ZA ART	1.415	2.96	116.5	MBC_G25	0.443	0.92	42.6
	MBC_G25	0.394	0.82	13.9	MBC_S20	0.394	0.82	13.9
	MBC_D12	0.246	0.51	8.7				
110.000	ZA ART	1.324	2.74	119.3	MBC_G25	0.416	0.86	43.5
	MBC_G25	0.369	0.76	14.7	MBC_S20	0.369	0.76	14.7
	MBC_D12	0.231	0.48	9.2				
112.000	ZA ART	1.258	2.58	121.8	MBC_G25	0.397	0.81	44.3
	MBC_G25	0.353	0.72	15.4	MBC_S20	0.353	0.72	15.4
	MBC_D12	0.221	0.45	9.6				
114.000	ZA ART	1.145	2.40	124.3	MBC_G25	0.364	0.76	45.1
	MBC_G25	0.323	0.68	16.1	MBC_S20	0.323	0.68	16.1
	MBC_D12	0.202	0.42	10.1				
116.000	ZA ART	1.068	2.21	126.5	MBC_G25	0.341	0.70	45.8
	MBC_G25	0.302	0.62	16.7	MBC_S20	0.303	0.63	16.7
	MBC_D12	0.189	0.39	10.4				
118.000	ZA ART	0.980	2.05	128.5	MBC_G25	0.314	0.65	46.4
	MBC_G25	0.279	0.58	17.3	MBC_S20	0.279	0.58	17.3
	MBC_D12	0.174	0.36	10.8				
120.000	ZA ART	0.922	1.90	130.4	MBC_G25	0.297	0.61	47.0
	MBC_G25	0.264	0.54	17.8	MBC_S20	0.264	0.54	17.8
	MBC_D12	0.165	0.34	11.2				
122.000	ZA ART	0.887	1.81	132.2	MBC_G25	0.285	0.58	47.6
	MBC_G25	0.253	0.52	18.4	MBC_S20	0.253	0.52	18.4
	MBC_D12	0.159	0.32	11.5				
124.000	ZA ART	0.871	1.76	134.0	MBC_G25	0.280	0.56	48.2
	MBC_G25	0.248	0.50	18.9	MBC_S20	0.248	0.50	18.9
	MBC_D12	0.155	0.31	11.8				
126.000	ZA ART	0.864	1.74	135.7	MBC_G25	0.277	0.56	48.7
	MBC_G25	0.246	0.49	19.3	MBC_S20	0.246	0.49	19.4
	MBC_D12	0.154	0.31	12.1				
126.156	ZA ART	0.865	0.13	135.9	MBC_G25	0.277	0.04	48.8
	MBC_G25	0.246	0.04	19.4	MBC_S20	0.246	0.04	19.4
	MBC_D12	0.154	0.02	12.1				
132.882	ZA ART	0.872	5.84	141.7	MBC_G25	0.280	1.87	50.6
	MBC_G25	0.248	1.66	21.0	MBC_S20	0.248	1.66	21.1
	MBC_D12	0.155	1.04	13.2				

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
MBC_S12	141.7
MBC_D12	50.6
MBC_G25	21.0
MBC_S20	21.1
MBC_D12	13.2



Istram 9.04 18/02/20 11:56:05 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 8: RAMAL SURESTE GLORIETA CARRETERA N-120

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	ZA ART	0.775	0.00	0.0	MBC G25	0.279	0.00	0.0
	MBC_G25	0.248	0.00	0.0	MBC_S20	0.248	0.00	0.0
	MBC_D12	0.155	0.00	0.0				
5.135	ZA ART	0.775	3.98	4.0	MBC G25	0.280	1.43	1.4
	MBC_G25	0.248	1.27	1.3	MBC_S20	0.248	1.28	1.3
	MBC_D12	0.155	0.80	0.8				
10.000	ZA ART	0.776	3.77	7.8	MBC G25	0.280	1.36	2.8
	MBC_G25	0.248	1.21	2.5	MBC_S20	0.249	1.21	2.5
	MBC_D12	0.156	0.76	1.6				
14.545	ZA ART	0.776	3.53	11.3	MBC G25	0.280	1.27	4.1
	MBC_G25	0.249	1.13	3.6	MBC_S20	0.249	1.13	3.6
	MBC_D12	0.155	0.71	2.3				
20.000	ZA ART	0.776	4.23	15.5	MBC G25	0.280	1.53	5.6
	MBC_G25	0.248	1.36	5.0	MBC_S20	0.249	1.36	5.0
	MBC_D12	0.156	0.85	3.1				
30.000	ZA ART	0.942	8.59	24.1	MBC G25	0.340	3.10	8.7
	MBC_G25	0.302	2.75	7.7	MBC_S20	0.302	2.75	7.7
	MBC_D12	0.189	1.72	4.8				
32.683	ZA ART	0.953	2.54	26.6	MBC G25	0.344	0.92	9.6
	MBC_G25	0.305	0.81	8.5	MBC_S20	0.306	0.82	8.5
	MBC_D12	0.191	0.51	5.3				
35.162	ZA ART	0.963	2.38	29.0	MBC G25	0.347	0.86	10.5
	MBC_G25	0.309	0.76	9.3	MBC_S20	0.309	0.76	9.3
	MBC_D12	0.193	0.48	5.8				
40.000	ZA ART	0.984	4.71	33.7	MBC G25	0.355	1.70	12.2
	MBC_G25	0.315	1.51	10.8	MBC_S20	0.316	1.51	10.8
	MBC_D12	0.197	0.94	6.8				
50.000	ZA ART	1.026	10.05	43.8	MBC G25	0.370	3.62	15.8
	MBC_G25	0.329	3.22	14.0	MBC_S20	0.329	3.22	14.0
	MBC_D12	0.206	2.01	8.8				
50.798	ZA ART	1.075	0.84	44.6	MBC G25	0.387	0.30	16.1
	MBC_G25	0.344	0.27	14.3	MBC_S20	0.344	0.27	14.3
	MBC_D12	0.215	0.17	8.9				
52.000	ZA ART	1.148	1.34	45.9	MBC G25	0.414	0.48	16.6
	MBC_G25	0.368	0.43	14.7	MBC_S20	0.368	0.43	14.7
	MBC_D12	0.230	0.27	9.2				
54.000	ZA ART	1.019	2.17	48.1	MBC G25	0.367	0.78	17.3
	MBC_G25	0.326	0.69	15.4	MBC_S20	0.326	0.69	15.4
	MBC_D12	0.204	0.43	9.6				
55.780	ZA ART	0.639	1.48	49.6	MBC G25	0.230	0.53	17.9
	MBC_G25	0.205	0.47	15.9	MBC_S20	0.205	0.47	15.9
	MBC_D12	0.128	0.30	9.9				
56.000	ZA ART	0.599	0.14	49.7	MBC G25	0.216	0.05	17.9
	MBC_G25	0.192	0.04	15.9	MBC_S20	0.192	0.04	15.9
	MBC_D12	0.120	0.03	10.0				
58.000	ZA ART	0.317	0.92	50.6	MBC G25	0.114	0.33	18.3
	MBC_G25	0.102	0.29	16.2	MBC_S20	0.102	0.29	16.2
	MBC_D12	0.064	0.18	10.2				
60.000	ZA ART	0.131	0.45	51.1	MBC G25	0.047	0.16	18.4
	MBC_G25	0.042	0.14	16.4	MBC_S20	0.042	0.14	16.4
	MBC_D12	0.026	0.09	10.2				
60.000	MBC_S12	0.026	0.00	51.1	MBC_D12	0.026	0.00	18.4
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
62.000	MBC_S12	0.007	0.03	51.1	MBC_D12	0.007	0.03	18.5
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
63.722	MBC_S12	0.002	0.01	51.1	MBC_D12	0.002	0.01	18.5
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
63.751	MBC_S12	0.002	0.00	51.1	MBC_D12	0.002	0.00	18.5
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
64.000	MBC_S12	0.002	0.00	51.1	MBC_D12	0.002	0.00	18.5
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
66.000	MBC_S12	0.009	0.01	51.1	MBC_D12	0.009	0.01	18.5
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				



Istram 9.04 18/02/20 11:56:05 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 8: RAMAL SURESTE GLORIETA CARRETERA N-120

*** MEDICIONES DE LOS PERFILES TRANSVERSALES ***
*** CAPAS DE FIRME ***

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
68.000	MBC_S12	0.032	0.04	51.2	MBC_D12	0.032	0.04	18.5
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
70.000	MBC_S12	0.070	0.10	51.3	MBC_D12	0.070	0.10	18.6
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
72.000	MBC_S12	0.126	0.20	51.5	MBC_D12	0.126	0.20	18.8
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
74.000	MBC_S12	0.208	0.33	51.8	MBC_D12	0.208	0.33	19.1
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
76.000	MBC_S12	0.330	0.54	52.4	MBC_D12	0.331	0.54	19.7
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
78.000	MBC_S12	0.449	0.78	53.1	MBC_D12	0.450	0.78	20.5
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
80.000	MBC_S12	0.432	0.88	54.0	MBC_D12	0.432	0.88	21.3
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
82.000	MBC_S12	0.414	0.85	54.9	MBC_D12	0.414	0.85	22.2
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
84.000	MBC_S12	0.396	0.81	55.7	MBC_D12	0.396	0.81	23.0
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
86.000	MBC_S12	0.378	0.77	56.4	MBC_D12	0.378	0.77	23.8
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
86.166	MBC_S12	0.377	0.06	56.5	MBC_D12	0.377	0.06	23.8
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
88.000	MBC_S12	0.372	0.69	57.2	MBC_D12	0.372	0.69	24.5
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
90.000	MBC_S12	0.367	0.74	57.9	MBC_D12	0.367	0.74	25.3
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
90.005	MBC_S12	0.367	0.00	57.9	MBC_D12	0.367	0.00	25.3
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
90.983	MBC_S12	0.364	0.36	58.3	MBC_D12	0.364	0.36	25.6
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				
99.305	MBC_S12	0.364	3.03	61.3	MBC_D12	0.364	3.03	28.7
	MBC_G25	0.000	0.00	16.4	MBC_S20	0.000	0.00	16.4
	MBC_D12	0.000	0.00	10.2				

*** RESUMEN DE VOLUMENES TOTALES ***

MATERIAL	VOLUMEN
ZA ART	61.3
MBC_G25	28.7
MBC_G25	16.4
MBC_S20	16.4
MBC_D12	10.2



Istram 9.04 18/02/20 10:33:40 721
PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 9: CALLE LABRADORES

***** MEDICIONES DE LOS PERFILES TRANSVERSALES*****
***** CAPAS DE FIRME *****

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	MACHAQUEO	2.482	0.00	0.0	ZA ART	0.310	0.00	0.0
	MBC G20	0.683	0.00	0.0	MBC D12	0.311	0.00	0.0
0.284	MACHAQUEO	2.481	0.70	0.7	ZA ART	0.311	0.09	0.1
	MBC G20	0.683	0.19	0.2	MBC D12	0.311	0.09	0.1
0.295	MACHAQUEO	2.482	0.03	0.7	ZA ART	0.310	0.00	0.1
	MBC G20	0.683	0.01	0.2	MBC D12	0.311	0.00	0.1
0.295	MACHAQUEO	2.481	0.00	0.7	ZA ART	0.310	0.00	0.1
	MBC G20	0.682	0.00	0.2	MBC D12	0.310	0.00	0.1
4.630	MACHAQUEO	2.481	10.75	11.5	ZA ART	0.310	1.34	1.4
	MBC G20	0.683	2.96	3.2	MBC D12	0.310	1.34	1.4
4.630	MACHAQUEO	2.481	0.00	11.5	ZA ART	0.310	0.00	1.4
	MBC G20	0.683	0.00	3.2	MBC D12	0.310	0.00	1.4
6.740	MACHAQUEO	2.481	5.23	16.7	ZA ART	0.310	0.65	2.1
	MBC G20	0.682	1.44	4.6	MBC D12	0.310	0.65	2.1
6.740	MACHAQUEO	2.481	0.00	16.7	ZA ART	0.310	0.00	2.1
	MBC G20	0.682	0.00	4.6	MBC D12	0.310	0.00	2.1
7.658	MACHAQUEO	2.481	2.28	19.0	ZA ART	0.310	0.28	2.4
	MBC G20	0.682	0.63	5.2	MBC D12	0.310	0.28	2.4
9.418	MACHAQUEO	2.481	4.37	23.4	ZA ART	0.310	0.55	2.9
	MBC G20	0.683	1.20	6.4	MBC D12	0.310	0.55	2.9
10.739	MACHAQUEO	2.482	3.28	26.6	ZA ART	0.310	0.41	3.3
	MBC G20	0.682	0.90	7.3	MBC D12	0.310	0.41	3.3
13.104	MACHAQUEO	2.481	5.87	32.5	ZA ART	0.310	0.73	4.1
	MBC G20	0.682	1.61	8.9	MBC D12	0.310	0.73	4.1
16.479	MACHAQUEO	2.481	8.37	40.9	ZA ART	0.310	1.05	5.1
	MBC G20	0.683	2.30	11.2	MBC D12	0.310	1.05	5.1
16.479	MACHAQUEO	2.481	0.00	40.9	ZA ART	0.310	0.00	5.1
	MBC G20	0.683	0.00	11.2	MBC D12	0.310	0.00	5.1
17.178	MACHAQUEO	2.481	1.73	42.6	ZA ART	0.310	0.22	5.3
	MBC G20	0.683	0.48	11.7	MBC D12	0.310	0.22	5.3
17.178	MACHAQUEO	2.482	0.00	42.6	ZA ART	0.310	0.00	5.3
	MBC G20	0.683	0.00	11.7	MBC D12	0.311	0.00	5.3
18.589	MACHAQUEO	2.482	3.50	46.1	ZA ART	0.310	0.44	5.8
	MBC G20	0.683	0.96	12.7	MBC D12	0.311	0.44	5.8
18.589	MACHAQUEO	2.482	0.00	46.1	ZA ART	0.310	0.00	5.8
	MBC G20	0.683	0.00	12.7	MBC D12	0.311	0.00	5.8
20.000	MACHAQUEO	2.482	3.50	49.6	ZA ART	0.310	0.44	6.2
	MBC G20	0.683	0.96	13.7	MBC D12	0.311	0.44	6.2
21.195	MACHAQUEO	2.481	2.97	52.6	ZA ART	0.311	0.37	6.6
	MBC G20	0.683	0.82	14.5	MBC D12	0.311	0.37	6.6
40.000	MACHAQUEO	2.481	46.66	99.2	ZA ART	0.310	5.84	12.4
	MBC G20	0.683	12.85	27.3	MBC D12	0.311	5.84	12.4
43.145	MACHAQUEO	2.483	7.81	107.1	ZA ART	0.310	0.98	13.4
	MBC G20	0.683	2.15	29.5	MBC D12	0.311	0.98	13.4
43.145	MACHAQUEO	2.483	0.00	107.1	ZA ART	0.310	0.00	13.4
	MBC G20	0.683	0.00	29.5	MBC D12	0.311	0.00	13.4
44.953	MACHAQUEO	2.482	4.49	111.5	ZA ART	0.310	0.56	13.9
	MBC G20	0.683	1.23	30.7	MBC D12	0.311	0.56	14.0
44.953	MACHAQUEO	2.481	0.00	111.5	ZA ART	0.310	0.00	13.9
	MBC G20	0.682	0.00	30.7	MBC D12	0.310	0.00	14.0
45.255	MACHAQUEO	2.480	0.75	112.3	ZA ART	0.310	0.09	14.0
	MBC G20	0.682	0.21	30.9	MBC D12	0.310	0.09	14.0
45.255	MACHAQUEO	2.480	0.00	112.3	ZA ART	0.310	0.00	14.0
	MBC G20	0.682	0.00	30.9	MBC D12	0.310	0.00	14.0
46.706	MACHAQUEO	2.481	3.60	115.9	ZA ART	0.310	0.45	14.5
	MBC G20	0.682	0.99	31.9	MBC D12	0.310	0.45	14.5
53.058	MACHAQUEO	2.481	15.76	131.7	ZA ART	0.310	1.97	16.5
	MBC G20	0.682	4.34	36.2	MBC D12	0.310	1.97	16.5
54.818	MACHAQUEO	2.481	4.37	136.0	ZA ART	0.310	0.55	17.0
	MBC G20	0.682	1.20	37.4	MBC D12	0.310	0.55	17.0
56.890	MACHAQUEO	2.482	5.14	141.2	ZA ART	0.310	0.64	17.6
	MBC G20	0.682	1.41	38.8	MBC D12	0.310	0.64	17.7
58.502	MACHAQUEO	2.481	4.00	145.2	ZA ART	0.310	0.50	18.1
	MBC G20	0.683	1.10	39.9	MBC D12	0.310	0.50	18.2
60.000	MACHAQUEO	2.481	3.72	148.9	ZA ART	0.310	0.46	18.6
	MBC G20	0.682	1.02	41.0	MBC D12	0.310	0.46	18.6
65.288	MACHAQUEO	2.481	13.12	162.0	ZA ART	0.310	1.64	20.2
	MBC G20	0.683	3.61	44.6	MBC D12	0.310	1.64	20.3
65.288	MACHAQUEO	2.482	0.00	162.0	ZA ART	0.310	0.00	20.2
	MBC G20	0.683	0.00	44.6	MBC D12	0.311	0.00	20.3



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 9: CALLE LABRADORES

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
65.943	MACHAQUEO	2.482	1.63	163.6	ZA ART	0.310	0.20	20.4
	MBC G20	0.683	0.45	45.0	MBC D12	0.311	0.20	20.5
65.943	MACHAQUEO	2.482	0.00	163.6	ZA ART	0.310	0.00	20.4
	MBC G20	0.683	0.00	45.0	MBC D12	0.311	0.00	20.5
67.074	MACHAQUEO	2.481	2.81	166.4	ZA ART	0.311	0.35	20.8
	MBC G20	0.683	0.77	45.8	MBC D12	0.311	0.35	20.8
68.053	MACHAQUEO	2.482	2.43	168.9	ZA ART	0.310	0.30	21.1
	MBC G20	0.683	0.67	46.5	MBC D12	0.311	0.30	21.1
68.053	MACHAQUEO	2.482	0.00	168.9	ZA ART	0.310	0.00	21.1
	MBC G20	0.683	0.00	46.5	MBC D12	0.311	0.00	21.1
70.162	MACHAQUEO	2.482	5.24	174.1	ZA ART	0.310	0.65	21.8
	MBC G20	0.683	1.44	47.9	MBC D12	0.311	0.66	21.8
75.880	MACHAQUEO	2.482	14.19	188.3	ZA ART	0.310	1.77	23.5
	MBC G20	0.683	3.90	51.8	MBC D12	0.311	1.78	23.6
75.880	MACHAQUEO	2.482	0.00	188.3	ZA ART	0.310	0.00	23.5
	MBC G20	0.683	0.00	51.8	MBC D12	0.311	0.00	23.6
77.990	MACHAQUEO	2.482	5.24	193.5	ZA ART	0.311	0.66	24.2
	MBC G20	0.683	1.44	53.2	MBC D12	0.311	0.66	24.2
77.990	MACHAQUEO	2.482	0.00	193.5	ZA ART	0.311	0.00	24.2
	MBC G20	0.683	0.00	53.2	MBC D12	0.311	0.00	24.2
78.223	MACHAQUEO	2.482	0.58	194.1	ZA ART	0.310	0.07	24.3
	MBC G20	0.683	0.16	53.4	MBC D12	0.311	0.07	24.3
80.000	MACHAQUEO	2.482	4.41	198.5	ZA ART	0.310	0.55	24.8
	MBC G20	0.683	1.21	54.6	MBC D12	0.311	0.55	24.8
86.284	MACHAQUEO	2.481	15.59	214.1	ZA ART	0.310	1.95	26.8
	MBC G20	0.683	4.29	58.9	MBC D12	0.311	1.95	26.8
86.303	MACHAQUEO	2.482	0.05	214.1	ZA ART	0.310	0.01	26.8
	MBC G20	0.683	0.01	58.9	MBC D12	0.311	0.01	26.8

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
MACHAQUEO	214.1
ZA ART	26.8
MBC G20	58.9
MBC D12	26.8



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 10: CALLE MIGUEL HERNANDEZ

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

* * * CAPAS DE FIRME * * *

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000								
2.438								
2.438								
3.246	MACHAQUEO	1.040	0.42	0.4	ZA_ART	0.130	0.05	0.1
	MBC_G20	0.286	0.12	0.1	MBC_D12	0.130	0.05	0.1
4.054	MACHAQUEO	2.080	1.26	1.7	ZA_ART	0.260	0.16	0.2
	MBC_G20	0.572	0.35	0.5	MBC_D12	0.260	0.16	0.2
8.128	MACHAQUEO	2.080	8.47	10.2	ZA_ART	0.260	1.06	1.3
	MBC_G20	0.572	2.33	2.8	MBC_D12	0.260	1.06	1.3
8.128	MACHAQUEO	2.081	0.00	10.2	ZA_ART	0.260	0.00	1.3
	MBC_G20	0.572	0.00	2.8	MBC_D12	0.260	0.00	1.3
9.802	MACHAQUEO	2.081	3.48	13.6	ZA_ART	0.260	0.44	1.7
	MBC_G20	0.572	0.96	3.8	MBC_D12	0.260	0.44	1.7
9.802	MACHAQUEO	2.081	0.00	13.6	ZA_ART	0.261	0.00	1.7
	MBC_G20	0.573	0.00	3.8	MBC_D12	0.261	0.00	1.7
12.734	MACHAQUEO	2.082	6.10	19.7	ZA_ART	0.260	0.76	2.5
	MBC_G20	0.573	1.68	5.4	MBC_D12	0.261	0.76	2.5

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* * * MEDICIONES DE LOS ACUERDOS EN LOS CRUCES * * *

* * * Cubicacion segun distancias compensadas * * *

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PK	EJE AC	MATERIAL	VOL. PARCIAL	MATERIAL	VOL. PARCIAL
0.000	9 DP	MACHAQUEO	3.86	ZA_ART	0.48
		MBC_G20	1.07	MBC_D12	0.48
0.000	9 IP	MACHAQUEO	1.41	ZA_ART	0.18
		MBC_G20	0.39	MBC_D12	0.18

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* * * RESUMEN DE VOLUMENES TOTALES * * *

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MATERIAL	VOLUMEN
MACHAQUEO	25.0
ZA_ART	3.1
MBC_G20	6.9
MBC_D12	3.1



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PROYECTO : REMODELACION POLIGONOS. FASE V
EJE : 11: CALLE JORGE GUILLEN

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

* * * CAPAS DE FIRME * * *

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	MACHAQUEO	2.082	0.00	0.0	ZA_ART	0.260	0.00	0.0
	MBC_G20	0.573	0.00	0.0	MBC_D12	0.261	0.00	0.0
1.012	MACHAQUEO	2.081	2.11	2.1	ZA_ART	0.261	0.26	0.3
	MBC_G20	0.573	0.58	0.6	MBC_D12	0.261	0.26	0.3
1.012	MACHAQUEO	2.081	0.00	2.1	ZA_ART	0.260	0.00	0.3
	MBC_G20	0.573	0.00	0.6	MBC_D12	0.260	0.00	0.3
1.306	MACHAQUEO	2.081	0.61	2.7	ZA_ART	0.260	0.08	0.3
	MBC_G20	0.573	0.17	0.7	MBC_D12	0.260	0.08	0.3
1.306	MACHAQUEO	2.080	0.00	2.7	ZA_ART	0.259	0.00	0.3
	MBC_G20	0.572	0.00	0.7	MBC_D12	0.260	0.00	0.3
7.798	MACHAQUEO	2.080	13.51	16.2	ZA_ART	0.260	1.69	2.0
	MBC_G20	0.572	3.71	4.5	MBC_D12	0.260	1.69	2.0
8.605	MACHAQUEO	1.041	1.26	17.5	ZA_ART	0.130	0.16	2.2
	MBC_G20	0.286	0.35	4.8	MBC_D12	0.130	0.16	2.2
9.411	MACHAQUEO	0.000	0.42	17.9	ZA_ART	0.000	0.05	2.2
	MBC_G20	0.000	0.12	4.9	MBC_D12	0.000	0.05	2.2
11.850	MACHAQUEO	0.000	0.00	17.9	ZA_ART	0.000	0.00	2.2
	MBC_G20	0.000	0.00	4.9	MBC_D12	0.000	0.00	2.2

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* * * MEDICIONES DE LOS ACUERDOS EN LOS CRUCES * * *

* * * Cubicacion segun distancias compensadas * * *

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PK	EJE AC	MATERIAL	VOL. PARCIAL	MATERIAL	VOL. PARCIAL
11.850	9 DA	MACHAQUEO	3.68	ZA_ART	0.46
		MBC_G20	1.02	MBC_D12	0.46
11.850	9 IA	MACHAQUEO	4.68	ZA_ART	0.59
		MBC_G20	1.29	MBC_D12	0.59

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* * * RESUMEN DE VOLUMENES TOTALES * * *

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MATERIAL	VOLUMEN
MACHAQUEO	26.3
ZA_ART	3.3
MBC_G20	7.2
MBC_D12	3.3