ANEJOS

A1 CÁLCULOS

Se muestra el resultado obtenido del ajuste del postproceso de las bases de replanteo.

A1.1 AJUSTE DE RED

```
************************************************************
**                                                        **
**               M O V E 3  Version 3.2.2                 **
**                                                        **
**                Design and Adjustment                   **
**                       of                               **
**            3D 2D and 1D Geodetic Networks              **
**                                                        **
**                    www.MOVE3.com                       **
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**                                                        **
** postSKY-021009                                         **
**                                   22-12-2009 20:05:33 **
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3D constrained network on WGS 84 ellipsoid

STATIONS

Number of (partly) known stations           3
Number of unknown stations                  6
                                  Total     9

OBSERVATIONS

GPS coordinate differences                 69  (23 baselines)
Known coordinates                           9
                                  Total    78

UNKNOWNS

Coordinates                                27
                                  Total    27

Degrees of freedom                         51

ADJUSTMENT

Number of iterations                        1
Max coord correction in last iteration      0.0000 m

TESTING

Alfa (multi dimensional)                    0.5549
Alfa 0 (one dimensional)                    0.0500
Beta                                        0.80
Critical value W-test                       1.96
Critical value T-test (3 dimensional)       1.89
Critical value T-test (2 dimensional)       2.42
Critical value F-test                       0.96

F-test                                    415.762  rejected

Results based on a-posteriori variance factor

ELLIPSOID CONSTANTS

Ellipsoid                                 WGS 84
Semi major axis                           6378137.0000 m
Inverse flattening                        298.257223563

COORDINATES (CONSTRAINED NETWORK)

        Station                              Coordinate         Corr          Sd

           BELL  Latitude          41 35 58.61534 N*      0.0000      0.0000 m
                 Longitude          1 24 04.09407 E*      0.0000      0.0000 m
                 Height                   853.4072*      0.0000      0.0000 m
           PLAN  Latitude          41 25 06.68955 N*      0.0000      0.0000 m
                 Longitude          1 59 13.02625 E*      0.0000      0.0000 m
```

	Height	319.9546*	-0.0000	0.0000 m
Virtual_129	Latitude	41 23 13.24758 N*	0.0000	0.0000 m
	Longitude	1 36 58.22255 E*	0.0000	0.0000 m
	Height	291.8000*	-0.0000	0.0000 m
br-1	Latitude	41 23 23.82377 N	-0.0051	0.0227 m
	Longitude	1 35 57.68243 E	-0.0017	0.0156 m
	Height	361.3930	-0.0088	0.0397 m
br-2	Latitude	41 23 28.44409 N	-0.0026	0.0146 m
	Longitude	1 35 57.94958 E	-0.0024	0.0115 m
	Height	364.0618	-0.0315	0.0312 m
br-3	Latitude	41 23 27.09475 N	-0.0084	0.0135 m
	Longitude	1 36 06.66186 E	-0.0029	0.0107 m
	Height	359.7475	-0.0792	0.0293 m
br-4	Latitude	41 23 28.23838 N	-0.0215	0.0196 m
	Longitude	1 36 24.01230 E	-0.0026	0.0090 m
	Height	375.8603	-0.0613	0.0383 m
br-5	Latitude	41 23 25.40237 N	-0.0071	0.0227 m
	Longitude	1 36 31.74766 E	-0.0024	0.0094 m
	Height	374.5108	-0.0339	0.0532 m
br-6	Latitude	41 23 21.90719 N	-0.0218	0.0274 m
	Longitude	1 36 41.04924 E	-0.0031	0.0158 m
	Height	370.3575	-0.0813	0.0732 m

ABSOLUTE STANDARD ELLIPSES

Station	A	B	A/B	Phi	Sd Hgt
BELL	0.0000	0.0000 m	0.0	1 deg	0.0000 m
PLAN	0.0000	0.0000 m	0.0	4 deg	0.0000 m
Virtual_129	0.0000	0.0000 m	0.0	3 deg	0.0000 m
br-1	0.0228	0.0154 m	1.5	7 deg	0.0397 m
br-2	0.0146	0.0115 m	1.3	-3 deg	0.0312 m
br-3	0.0135	0.0107 m	1.3	0 deg	0.0293 m
br-4	0.0196	0.0089 m	2.2	5 deg	0.0383 m
br-5	0.0227	0.0093 m	2.4	3 deg	0.0532 m
br-6	0.0286	0.0136 m	2.1	-18 deg	0.0732 m

ESTIMATED ERRORS FOR STATIONS WITH REJECTED T-TESTS (max 10)

Station		T-test	Fact	Est err
BELL	Latitude	12.34	2.6	-0.0279 m
	Longitude			-0.0102 m
	Height			-0.2253 m
Virtual_129	Latitude	6.09	1.8	0.0787 m
	Longitude			0.0102 m
	Height			0.0610 m
PLAN	Latitude	5.27	1.7	-0.0319 m
	Longitude			0.0030 m
	Height			0.1610 m

ADJUSTED OBSERVATIONS

	Station	Target	Adj obs	Resid	Resid(ENH)	Sd
DX	br-4	br-3	22.5222	-0.0010	-0.0046	0.0340 m
DY			-402.6396	-0.0046	0.0141	0.0119 m
DZ			-37.1239	0.0178	0.0109	0.0317 m
DX	br-3	br-2	-18.6254	0.0065	0.0053	0.0287 m
DY			-203.0167	0.0055	-0.0062	0.0122 m
DZ			34.0841	-0.0024	0.0034	0.0227 m
DX	br-6	br-5	-62.0825	-0.0089	-0.0021	0.0753 m
DY			-217.9431	-0.0023	0.0077	0.0157 m
DZ			83.6462	0.0024	-0.0052	0.0352 m
DX	br-2	br-1	92.3857	-0.0105	0.0020	0.0309 m
DY			-3.6295	0.0017	0.0061	0.0136 m
DZ			-108.7062	-0.0011	-0.0086	0.0258 m
DX	br-5	br-4	-51.7753	0.0081	0.0041	0.0591 m
DY			-181.2449	0.0043	0.0057	0.0096 m
DZ			66.5343	0.0148	0.0159	0.0323 m
DX	Virtual_129	br-6	-106.4177	0.0369	0.0131	0.0690 m
DY			-402.1683	0.0141	0.0431	0.0169 m
DZ			252.3795	0.0903	0.0877	0.0363 m
DX	Virtual_129	br-5	-168.5002	-0.0032	0.0077	0.0507 m
DY			-620.1114	0.0076	0.0572	0.0095 m
DZ			336.0256	0.0737	0.0465	0.0278 m
DX	Virtual_129	br-4	-220.2755	-0.0126	0.0107	0.0345 m
DY			-801.3564	0.0103	0.0566	0.0088 m
DZ			402.5599	0.0645	0.0334	0.0257 m
DX	Virtual_129	br-3	-197.7532	-0.0107	0.0040	0.0244 m
DY			-1203.9959	0.0037	0.0649	0.0106 m
DZ			365.4360	0.0772	0.0431	0.0212 m
DX	Virtual_129	br-2	-216.3786	0.0025	0.0087	0.0270 m
DY			-1407.0126	0.0088	0.0554	0.0115 m
DZ			399.5202	0.0762	0.0525	0.0213 m
DX	Virtual_129	br-1	-123.9929	-0.0111	0.0123	0.0347 m
DY			-1410.6421	0.0120	0.0594	0.0156 m
DZ			290.8139	0.0697	0.0380	0.0297 m
DX	BELL	br-6	14640.1555	-0.0869	-0.0079	0.0690 m
DY			17950.5101	-0.0100	-0.0123	0.0169 m
DZ			-17807.6992	-0.0938	-0.1275	0.0363 m
DX	BELL	br-5	14578.0730	-0.0981	0.0028	0.0507 m
DY			17732.5670	0.0004	-0.0272	0.0095 m
DZ			-17724.0531	-0.1235	-0.1553	0.0278 m
DX	BELL	br-4	14526.2977	-0.1052	-0.0096	0.0345 m
DY			17551.3220	-0.0122	-0.0060	0.0088 m
DZ			-17657.5188	-0.1016	-0.1463	0.0257 m
DX	BELL	br-3	14548.8200	-0.0873	0.0021	0.0244 m
DY			17148.6825	-0.0001	-0.0271	0.0106 m
DZ			-17694.6427	-0.1137	-0.1408	0.0212 m
DX	BELL	br-2	14530.1946	-0.1141	-0.0115	0.0270 m
DY			16945.6658	-0.0143	0.0013	0.0115 m
DZ			-17660.5585	-0.0999	-0.1519	0.0213 m
DX	BELL	br-1	14622.5803	-0.1422	-0.0373	0.0347 m
DY			16942.0363	-0.0408	-0.0855	0.0156 m
DZ			-17769.2648	-0.2414	-0.2674	0.0297 m
DX	PLAN	br-6	3160.7515	0.0586	-0.0094	0.0690 m
DY			-31321.0379	-0.0074	-0.0046	0.0169 m
DZ			-2391.4472	0.0453	0.0737	0.0363 m
DX	PLAN	br-5	3098.6690	0.0627	0.0043	0.0507 m
DY			-31538.9810	0.0065	-0.0292	0.0095 m
DZ			-2307.8011	0.0165	0.0581	0.0278 m
DX	PLAN	br-4	3046.8937	0.0683	-0.0044	0.0345 m
DY			-31720.2260	-0.0021	-0.0074	0.0088 m
DZ			-2241.2668	0.0502	0.0843	0.0257 m
DX	PLAN	br-3	3069.4160	0.0954	0.0092	0.0244 m
DY			-32122.8655	0.0125	-0.0206	0.0106 m
DZ			-2278.3907	0.0570	0.1095	0.0212 m
DX	PLAN	br-2	3050.7906	0.0599	-0.0065	0.0270 m
DY			-32325.8822	-0.0044	0.0044	0.0115 m
DZ			-2244.3065	0.0585	0.0835	0.0213 m
DX	PLAN	br-1	3143.1763	0.0795	-0.0068	0.0347 m
DY			-32329.5117	-0.0040	-0.0400	0.0156 m
DZ			-2353.0128	0.0167	0.0705	0.0297 m

GPS BASELINE VECTOR RESIDUALS

	Station	Target	Adj vector	Resid	Resid ppm
DV	br-4	br-3	404.9741	0.0185 m	45.6 ppm
DV	br-3	br-2	206.6988	0.0088 m	42.6 ppm
DV	br-6	br-5	241.5577	0.0095 m	39.5 ppm
DV	br-2	br-1	142.7072	0.0107 m	75.1 ppm
DV	br-5	br-4	199.8930	0.0174 m	87.1 ppm
DV	Virtual_129	br-6	486.5793	0.0986 m	202.6 ppm
DV	Virtual_129	br-5	725.1508	0.0741 m	102.2 ppm
DV	Virtual_129	br-4	923.4435	0.0665 m	72.1 ppm
DV	Virtual_129	br-3	1273.6782	0.0780 m	61.3 ppm
DV	Virtual_129	br-2	1478.5535	0.0768 m	51.9 ppm
DV	Virtual_129	br-1	1445.6342	0.0716 m	49.5 ppm
DV	BELL	br-6	29217.6166	0.1283 m	4.4 ppm
DV	BELL	br-5	29001.8310	0.1577 m	5.4 ppm
DV	BELL	br-4	28824.4722	0.1467 m	5.1 ppm
DV	BELL	br-3	28615.4827	0.1434 m	5.0 ppm
DV	BELL	br-2	28463.6166	0.1523 m	5.4 ppm
DV	BELL	br-1	28576.2002	0.2832 m	9.9 ppm
DV	PLAN	br-6	31570.8217	0.0744 m	2.4 ppm
DV	PLAN	br-5	31774.7544	0.0651 m	2.1 ppm
DV	PLAN	br-4	31944.9460	0.0848 m	2.7 ppm
DV	PLAN	br-3	32349.5111	0.1118 m	3.5 ppm
DV	PLAN	br-2	32546.9952	0.0838 m	2.6 ppm
DV	PLAN	br-1	32567.0624	0.0813 m	2.5 ppm

TEST OF OBSERVATIONS

	Station	Target	MDB	Red	BNR	W-test	T-test
DX	br-4	br-3	0.1598 m	24	4.2	-0.69	0.18
DY			0.0653 m	55	2.9	-0.30	
DZ			0.1834 m	92	2.6	0.45	
DX	br-3	br-2	0.1220 m	43	3.6	0.43	0.15
DY			0.0691 m	42	3.3	0.44	
DZ			0.0982 m	36	3.8	-0.41	
DX	br-6	br-5	0.2173 m	59	4.0	-0.45	0.14
DY			0.0777 m	24	4.8	-0.24	
DZ			0.1132 m	19	4.9	0.62	
DX	br-2	br-1	0.1734 m	28	4.7	-0.56	0.11
DY			0.0890 m	25	5.1	0.08	
DZ			0.1526 m	21	5.3	0.20	
DX	br-5	br-4	0.3550 m	97	2.1	-0.19	0.11
DY			0.0556 m	36	4.0	0.39	
DZ			0.1374 m	42	3.1	0.35	
DX	Virtual_129	br-6	0.2368 m	74	1.5	-1.34	1.09
DY			0.1018 m	88	1.3	0.25	
DZ			0.1428 m	83	1.3	1.78	
DX	Virtual_129	br-5	0.2425 m	79	1.4	-1.31	1.03
DY			0.0703 m	84	1.2	-0.23	
DZ			0.1365 m	85	1.3	1.73	
DX	Virtual_129	br-4	0.2465 m	89	1.0	-0.74	0.78
DY			0.0681 m	86	1.2	0.61	
DZ			0.1641 m	83	1.2	1.45	
DX	Virtual_129	br-3	0.1608 m	88	1.0	-1.42	1.21
DY			0.1136 m	92	0.8	-0.03	
DZ			0.1399 m	88	1.0	1.90	
DX	Virtual_129	br-2	0.2043 m	92	0.9	-1.11	0.81
DY			0.1188 m	92	0.9	0.11	
DZ			0.1504 m	90	1.0	1.54	
DX	Virtual_129	br-1	0.2430 m	85	1.2	-0.68	0.41
DY			0.1271 m	87	1.2	0.21	
DZ			0.2184 m	88	1.0	1.04	
DX	BELL	br-6	0.2173 m	65	1.8	0.64	0.74
DY			0.0978 m	85	1.4	-0.01	
DZ			0.1382 m	84	1.5	-1.33	
DX	BELL	br-5	0.2403 m	77	1.4	0.74	1.30
DY			0.0716 m	84	1.2	0.46	
DZ			0.1448 m	89	1.2	-1.77	
DX	BELL	br-4	0.2077 m	84	1.3	-0.51	2.31**
DY			0.0580 m	78	1.5	-1.37	
DZ			0.1404 m	75	1.6	-1.80	
DX	BELL	br-3	0.1242 m	77	1.5	-0.05	3.12**
DY			0.0777 m	82	1.3	-0.19	
DZ			0.1059 m	75	1.6	-2.33**	
DX	BELL	br-2	0.1458 m	81	1.4	-0.54	2.16**
DY			0.0793 m	79	1.4	-0.31	
DZ			0.1094 m	76	1.5	-1.49	
DX	BELL	br-1	0.3596 m	94	0.7	-0.10	1.20
DY			0.1875 m	94	0.7	-0.11	
DZ			0.3290 m	95	0.6	-1.57	
DX	PLAN	br-6	0.2587 m	79	1.3	0.17	0.22
DY			0.1095 m	90	1.2	-0.59	
DZ			0.1555 m	86	1.2	0.41	
DX	PLAN	br-5	0.2152 m	70	1.7	0.82	0.30
DY			0.0618 m	78	1.5	0.43	
DZ			0.1201 m	79	1.6	-0.41	
DX	PLAN	br-4	0.2271 m	87	1.1	0.37	0.35
DY			0.0630 m	82	1.3	0.19	
DZ			0.1521 m	80	1.4	0.60	
DX	PLAN	br-3	0.1167 m	71	1.8	1.99**	2.52**
DY			0.0730 m	79	1.4	1.00	
DZ			0.1038 m	74	1.7	0.19	
DX	PLAN	br-2	0.1404 m	77	1.5	0.34	0.81
DY			0.0762 m	76	1.6	-0.20	
DZ			0.1102 m	77	1.5	0.97	
DX	PLAN	br-1	0.2049 m	76	1.5	1.28	0.59
DY			0.1061 m	79	1.4	-0.20	
DZ			0.1976 m	84	1.2	-0.26	

ESTIMATED ERRORS FOR OBSERVATIONS WITH REJECTED W-TESTS (max 10)

Record	Station	Target	W-test	Fact	Est err
15	DZ	BELL	br-3	-2.33	1.2	-0.0880 m
21	DX	PLAN	br-3	1.99	1.0	0.0828 m

ESTIMATED ERRORS FOR OBSERVATIONS WITH REJECTED ANTENNA HGT W-TESTS (max 10)

Record	Station	Target	W-test	Fact	MDB	Est ant err
15	DX	BELL	br-3	-2.84	1.4	0.1902	-0.1926 m
14	DX	BELL	br-4	-2.55	1.3	0.2372	-0.2162 m
21	DX	PLAN	br-3	2.53	1.3	0.1766	0.1596 m
16	DX	BELL	br-2	-2.50	1.3	0.2107	-0.1884 m

ESTIMATED ERRORS FOR OBSERVATIONS WITH REJECTED T-TESTS (max 10)

Record	Station	Target	T-test	Fact	Est err
15	DX	BELL	br-3	3.12	1.3	-0.1147 m
	DY					0.0014 m
	DZ					-0.1505 m
21	DX	PLAN	br-3	2.52	1.2	0.1368 m
	DY					0.0164 m
	DZ					0.0813 m
14	DX	BELL	br-4	2.31	1.1	-0.1340 m
	DY					-0.0173 m
	DZ					-0.1357 m
16	DX	BELL	br-2	2.16	1.1	-0.1411 m
	DY					-0.0167 m
	DZ					-0.1270 m

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**                                                      **
**                M O V E 3  Version 3.2.2              **
**                                                      **
**                 Design and Adjustment                **
**                        of                            **
**             3D 2D and 1D Geodetic Networks           **
**                                                      **
**                    www.MOVE3.com                     **
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**            Licensed to Leica Geosystems AG           **
**                                                      **
** postSKY-021209                                       **
**                                  09-01-2010 18:38:00 **
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3D constrained network on WGS 84 ellipsoid

STATIONS

Number of (partly) known stations	3	
Number of unknown stations	8	
Total	11	

OBSERVATIONS

GPS coordinate differences	93	(31 baselines)
Known coordinates	9	
Total	102	

UNKNOWNS

Coordinates	33	
Total	33	
Degrees of freedom	69	

ADJUSTMENT

Number of iterations	1
Max coord correction in last iteration	0.0000 m

TESTING

Alfa (multi dimensional)	0.5895	
Alfa 0 (one dimensional)	0.0500	
Beta	0.80	
Critical value W-test	1.96	
Critical value T-test (3 dimensional)	1.89	
Critical value T-test (2 dimensional)	2.42	
Critical value F-test	0.95	
F-test	163.035	rejected

Results based on a-posteriori variance factor

ELLIPSOID CONSTANTS

Ellipsoid	WGS 84
Semi major axis	6378137.0000 m
Inverse flattening	298.257223563

COORDINATES (CONSTRAINED NETWORK)

Station		Coordinate	Corr	Sd
BELL	Latitude	41 35 58.61534 N*	0.0000	0.0000 m
	Longitude	1 24 04.09407 E*	0.0000	0.0000 m
	Height	853.4072*	-0.0000	0.0000 m
PLAN	Latitude	41 25 06.68955 N*	0.0000	0.0000 m
	Longitude	1 59 13.02625 E*	0.0000	0.0000 m
	Height	319.9546*	-0.0000	0.0000 m
Virtual_128	Latitude	41 23 13.24758 N*	0.0000	0.0000 m
	Longitude	1 36 58.22255 E*	0.0000	0.0000 m
	Height	291.8000*	0.0000	0.0000 m
br-10	Latitude	41 23 09.13716 N	0.0001	0.0067 m
	Longitude	1 37 29.69729 E	-0.0011	0.0046 m
	Height	343.7840	-0.0014	0.0136 m
br-11	Latitude	41 23 07.24449 N	-0.0005	0.0060 m
	Longitude	1 37 44.50681 E	-0.0022	0.0050 m
	Height	323.9436	-0.0040	0.0142 m
br-12	Latitude	41 23 04.58626 N	0.0022	0.0086 m
	Longitude	1 37 49.78609 E	-0.0073	0.0083 m
	Height	320.6653	0.0001	0.0207 m
br-5p	Latitude	41 23 25.40328 N	-0.0001	0.0175 m
	Longitude	1 36 31.74634 E	-0.0003	0.0107 m
	Height	374.5493	-0.0000	0.0346 m
br-6p	Latitude	41 23 21.90772 N	-0.0005	0.0074 m
	Longitude	1 36 41.04905 E	0.0000	0.0059 m
	Height	370.3863	0.0035	0.0192 m
br-7	Latitude	41 23 23.41201 N	0.0025	0.0064 m
	Longitude	1 36 47.34668 E	-0.0007	0.0049 m
	Height	368.1440	0.0010	0.0154 m
br-8	Latitude	41 23 16.21352 N	0.0023	0.0078 m
	Longitude	1 36 58.86162 E	-0.0002	0.0053 m
	Height	361.6873	0.0005	0.0145 m
br-9	Latitude	41 23 11.42261 N	-0.0003	0.0081 m
	Longitude	1 37 10.46726 E	-0.0004	0.0047 m
	Height	355.9250	0.0001	0.0131 m

ABSOLUTE STANDARD ELLIPSES

Station	A	B	A/B	Phi	Sd Hgt
BELL	0.0000	0.0000 m	0.0	15 deg	0.0000 m
PLAN	0.0000	0.0000 m	0.0	17 deg	0.0000 m
Virtual_128	0.0000	0.0000 m	0.0	16 deg	0.0000 m
br-10	0.0070	0.0042 m	1.7	20 deg	0.0136 m
br-11	0.0064	0.0046 m	1.4	27 deg	0.0142 m
br-12	0.0090	0.0079 m	1.1	35 deg	0.0207 m
br-5p	0.0177	0.0103 m	1.7	10 deg	0.0346 m
br-6p	0.0076	0.0057 m	1.3	16 deg	0.0192 m
br-7	0.0064	0.0048 m	1.3	3 deg	0.0154 m
br-8	0.0078	0.0053 m	1.5	4 deg	0.0145 m
br-9	0.0083	0.0043 m	1.9	15 deg	0.0131 m

ESTIMATED ERRORS FOR STATIONS WITH REJECTED T-TESTS (max 10)

Station		T-test	Fact	Est err
Virtual_128	Latitude	19.37	3.2	0.0540 m
	Longitude			0.0164 m
	Height			-0.0357 m
PLAN	Latitude	8.02	2.1	-0.0396 m
	Longitude			-0.0109 m
	Height			0.0291 m
BELL	Latitude	6.09	1.8	-0.0386 m
	Longitude			-0.0137 m
	Height			0.0212 m

ADJUSTED OBSERVATIONS

	Station	Target	Adj obs	Resid	Resid(ENH)	Sd
DX	br-7	br-6p	36.4718	0.0009	0.0003	0.0164 m
DY			-145.3508	0.0004	-0.0072	0.0063 m
DZ			-33.3361	-0.0088	-0.0051	0.0155 m
DX	br-11	br-10	-13.9395	0.0047	0.0031	0.0118 m
DY			-344.6392	0.0032	0.0018	0.0052 m
DZ			56.9277	0.0067	0.0080	0.0121 m
DX	br-8	br-7	-134.3982	-0.0002	0.0007	0.0134 m
DY			-271.4368	0.0007	-0.0027	0.0056 m
DZ			170.8891	-0.0038	-0.0027	0.0122 m
DX	br-10	br-9	-24.8437	0.0009	0.0012	0.0129 m
DY			-447.6966	0.0012	-0.0011	0.0049 m
DZ			60.9290	-0.0007	0.0002	0.0102 m
DX	br-6p	br-5p	-62.0821	-0.0072	0.0001	0.0351 m
DY			-217.9694	-0.0001	0.0062	0.0108 m
DZ			83.6612	0.0020	-0.0041	0.0194 m
DX	br-9	br-8	-85.7494	-0.0008	0.0013	0.0152 m
DY			-272.1855	0.0013	0.0003	0.0056 m
DZ			114.7054	-0.0003	-0.0008	0.0100 m

DX	br-12	br-11	-48.2497	0.0005	0.0032	0.0155	m
DY			-124.0894	0.0032	-0.0010	0.0078	m
DZ			63.6993	-0.0008	-0.0000	0.0130	m
DX	Virtual_128	br-9	77.2688	-0.0239	0.0046	0.0125	m
DY			286.8007	0.0039	0.0216	0.0046	m
DZ			0.1526	0.0078	-0.0127	0.0090	m
DX	Virtual_128	br-8	-8.4806	-0.0265	0.0056	0.0129	m
DY			14.6152	0.0048	0.0246	0.0053	m
DZ			114.8580	0.0095	-0.0135	0.0102	m
DX	Virtual_128	br-7	-142.8788	-0.0352	0.0091	0.0120	m
DY			-256.8216	0.0081	0.0233	0.0049	m
DZ			285.7471	0.0002	-0.0261	0.0115	m
DX	Virtual_128	br-6p	-106.4070	-0.0272	0.0107	0.0157	m
DY			-402.1725	0.0100	0.0196	0.0059	m
DZ			252.4109	0.0024	-0.0186	0.0132	m
DX	Virtual_128	br-5p	-168.4891	-0.0101	0.0069	0.0341	m
DY			-620.1418	0.0066	0.0169	0.0106	m
DZ			336.0722	0.0139	0.0018	0.0184	m
DX	Virtual_128	br-12	164.3017	-0.0181	0.0059	0.0170	m
DY			1203.2259	0.0054	0.0228	0.0084	m
DZ			-181.4034	0.0145	-0.0039	0.0146	m
DX	Virtual_128	br-11	116.0520	-0.0266	0.0081	0.0111	m
DY			1079.1365	0.0074	0.0252	0.0051	m
DZ			-117.7041	0.0104	-0.0130	0.0107	m
DX	Virtual_128	br-10	102.1125	-0.0296	0.0067	0.0111	m
DY			734.4973	0.0059	0.0270	0.0046	m
DZ			-60.7764	0.0100	-0.0155	0.0103	m
DX	BELL	br-9	14823.8420	0.0454	-0.0153	0.0125	m
DY			18639.4791	-0.0142	-0.0310	0.0046	m
DZ			-18059.9261	-0.0014	0.0328	0.0090	m
DX	BELL	br-8	14738.0926	0.0548	-0.0152	0.0129	m
DY			18367.2936	-0.0139	-0.0512	0.0053	m
DZ			-17945.2207	-0.0201	0.0273	0.0102	m
DX	BELL	br-7	14603.6944	0.0483	-0.0095	0.0120	m
DY			18095.8568	-0.0083	-0.0305	0.0049	m
DZ			-17774.3316	0.0019	0.0372	0.0115	m
DX	BELL	br-6p	14640.1662	0.0416	-0.0196	0.0157	m
DY			17950.5059	-0.0186	-0.0198	0.0059	m
DZ			-17807.6678	0.0101	0.0374	0.0132	m
DX	BELL	br-5p	14578.0841	0.0549	-0.0127	0.0341	m
DY			17732.5366	-0.0114	-0.0393	0.0106	m
DZ			-17724.0065	-0.0041	0.0381	0.0184	m
DX	BELL	br-12	14910.8749	-0.0076	0.0085	0.0170	m
DY			19555.9043	0.0083	-0.0317	0.0084	m
DZ			-18241.4821	-0.0489	-0.0380	0.0146	m
DX	BELL	br-11	14862.6252	0.0160	-0.0102	0.0111	m
DY			19431.8149	-0.0098	-0.0282	0.0051	m
DZ			-18177.7828	-0.0238	-0.0040	0.0107	m
DX	BELL	br-10	14848.6857	0.0368	-0.0176	0.0111	m
DY			19087.1757	-0.0167	-0.0472	0.0046	m
DZ			-18120.8551	-0.0309	0.0067	0.0103	m
DX	PLAN	br-9	3344.4380	0.0359	-0.0089	0.0125	m
DY			-30632.0689	-0.0077	-0.0324	0.0046	m
DZ			-2643.6741	-0.0118	0.0189	0.0090	m
DX	PLAN	br-8	3258.6886	0.0444	-0.0100	0.0129	m
DY			-30904.2544	-0.0085	-0.0476	0.0053	m
DZ			-2528.9687	-0.0246	0.0167	0.0102	m
DX	PLAN	br-7	3124.2904	0.0247	-0.0048	0.0120	m
DY			-31175.6912	-0.0040	-0.0225	0.0049	m
DZ			-2358.0796	-0.0084	0.0128	0.0115	m
DX	PLAN	br-6p	3160.7622	0.0131	-0.0148	0.0157	m
DY			-31321.0421	-0.0144	-0.0052	0.0059	m
DZ			-2391.4158	0.0042	0.0122	0.0132	m
DX	PLAN	br-5p	3098.6801	0.0015	-0.0017	0.0341	m
DY			-31539.0114	-0.0016	-0.0177	0.0106	m
DZ			-2307.7545	-0.0223	-0.0137	0.0184	m
DX	PLAN	br-12	3431.4709	0.0485	0.0089	0.0170	m
DY			-29715.6437	0.0105	-0.0307	0.0084	m
DZ			-2825.2301	0.0021	0.0380	0.0146	m
DX	PLAN	br-11	3383.2212	0.0585	-0.0050	0.0111	m
DY			-29839.7331	-0.0030	-0.0272	0.0051	m
DZ			-2761.5308	0.0153	0.0539	0.0107	m
DX	PLAN	br-10	3369.2817	0.0403	-0.0141	0.0111	m
DY			-30184.3723	-0.0127	-0.0493	0.0046	m
DZ			-2704.6031	-0.0306	0.0096	0.0103	m

GPS BASELINE VECTOR RESIDUALS

	Station	Target	Adj vector	Resid	Resid ppm
DV	br-7	br-6p	153.5199	0.0088 m	57.4 ppm
DV	br-11	br-10	349.5873	0.0088 m	25.2 ppm
DV	br-8	br-7	347.7699	0.0038 m	11.1 ppm
DV	br-10	br-9	452.5061	0.0016 m	3.6 ppm
DV	br-6p	br-5p	241.5865	0.0075 m	30.9 ppm
DV	br-9	br-8	307.5634	0.0015 m	5.0 ppm
DV	br-12	br-11	147.5935	0.0034 m	22.8 ppm
DV	Virtual_128	br-9	297.0271	0.0255 m	85.7 ppm
DV	Virtual_128	br-8	116.0943	0.0286 m	246.4 ppm
DV	Virtual_128	br-7	409.9062	0.0361 m	88.1 ppm
DV	Virtual_128	br-6p	486.5968	0.0290 m	59.6 ppm
DV	Virtual_128	br-5p	725.1958	0.0184 m	25.3 ppm
DV	Virtual_128	br-12	1227.8660	0.0238 m	19.4 ppm
DV	Virtual_128	br-11	1091.7225	0.0295 m	27.0 ppm
DV	Virtual_128	br-10	744.0477	0.0318 m	42.8 ppm
DV	BELL	br-9	29888.7504	0.0476 m	1.6 ppm
DV	BELL	br-8	29607.4280	0.0600 m	2.0 ppm
DV	BELL	br-7	29268.6656	0.0490 m	1.7 ppm
DV	BELL	br-6p	29217.6002	0.0467 m	1.6 ppm
DV	BELL	br-5p	29001.7896	0.0562 m	1.9 ppm
DV	BELL	br-12	30618.9362	0.0502 m	1.6 ppm
DV	BELL	br-11	30478.2684	0.0303 m	1.0 ppm
DV	BELL	br-10	30218.6885	0.0509 m	1.7 ppm
DV	PLAN	br-9	30927.3006	0.0386 m	1.2 ppm
DV	PLAN	br-8	31178.3206	0.0514 m	1.7 ppm
DV	PLAN	br-7	31420.4623	0.0264 m	0.8 ppm
DV	PLAN	br-6p	31570.8246	0.0199 m	0.6 ppm
DV	PLAN	br-5p	31774.7823	0.0224 m	0.7 ppm
DV	PLAN	br-12	30046.2376	0.0497 m	1.7 ppm
DV	PLAN	br-11	30157.6178	0.0606 m	2.0 ppm
DV	PLAN	br-10	30492.0198	0.0521 m	1.7 ppm

TEST OF OBSERVATIONS

	Station	Target	MDB	Red	BNR	W-test	T-test
DX	br-7	br-6p	0.0611 m	37	3.5	0.91	0.35
DY			0.0343 m	47	3.0	0.27	
DZ			0.0568 m	64	2.9	-0.99	
DX	br-11	br-10	0.0502 m	32	4.1	0.10	0.21
DY			0.0270 m	36	3.8	0.57	
DZ			0.0461 m	48	3.6	0.13	
DX	br-8	br-7	0.0609 m	33	4.0	0.31	0.07
DY			0.0317 m	44	3.2	0.07	
DZ			0.0539 m	45	3.5	-0.45	
DX	br-10	br-9	0.0624 m	40	3.5	0.26	0.07
DY			0.0264 m	37	3.7	0.42	
DZ			0.0484 m	37	3.6	-0.29	
DX	br-6p	br-5p	0.1498 m	59	2.6	-0.34	0.04
DY			0.0593 m	52	2.7	-0.09	
DZ			0.0809 m	50	2.8	0.32	
DX	br-9	br-8	0.0786 m	62	2.2	0.01	0.02
DY			0.0312 m	45	3.1	0.24	
DZ			0.0529 m	36	3.5	-0.03	
DX	br-12	br-11	0.0700 m	28	4.6	0.14	0.20
DY			0.0450 m	28	4.5	0.76	
DZ			0.0576 m	25	4.7	-0.39	
DX	Virtual_128	br-9	0.0691 m	73	1.7	-1.40	0.83
DY			0.0267 m	69	1.9	0.02	
DZ			0.0483 m	69	1.8	1.05	
DX	Virtual_128	br-8	0.0746 m	79	1.4	-1.55	0.98
DY			0.0360 m	79	1.5	0.48	
DZ			0.0578 m	77	1.5	1.27	
DX	Virtual_128	br-7	0.0515 m	69	1.9	-2.80**	2.98**
DY			0.0305 m	73	1.7	1.10	
DZ			0.0512 m	76	1.7	2.00**	
DX	Virtual_128	br-6p	0.0635 m	69	2.0	-1.81	1.59
DY			0.0337 m	65	2.1	1.05	
DZ			0.0510 m	60	2.2	1.25	
DX	Virtual_128	br-5p	0.1609 m	69	1.8	-0.59	0.24
DY			0.0637 m	71	1.8	0.25	
DZ			0.0849 m	68	1.8	0.72	
DX	Virtual_128	br-12	0.0839 m	80	1.4	-1.28	0.65
DY			0.0545 m	80	1.4	0.19	

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DZ                                0.0683 m     77    1.5     1.18
DX    Virtual_128         br-11   0.0474 m     66    2.0    -2.98**    3.32**
DY                                0.0281 m     69    1.9     0.58
DZ                                0.0432 m     68    1.9     2.23**
DX    Virtual_128         br-10   0.0565 m     75    1.6    -2.25**    1.88
DY                                0.0277 m     75    1.6     0.11
DZ                                0.0513 m     79    1.5     1.61
DX          BELL           br-9   0.1894 m     97    0.5     0.55       0.20
DY                                0.0728 m     97    0.5    -0.37
DZ                                0.1203 m     96    0.5    -0.19
DX          BELL           br-8   0.1397 m     95    0.6     1.43       0.89
DY                                0.0676 m     95    0.6    -0.62
DZ                                0.1079 m     95    0.7    -1.19
DX          BELL           br-7   0.0617 m     82    1.3     2.62**     2.48**
DY                                0.0370 m     84    1.2    -0.82
DZ                                0.0622 m     86    1.2    -1.86
DX          BELL          br-6p   0.1002 m     91    0.9     0.90       0.75
DY                                0.0524 m     90    1.0    -1.10
DZ                                0.0773 m     88    1.0    -0.31
DX          BELL          br-5p   0.2399 m     90    1.0     0.77       0.25
DY                                0.0922 m     89    1.0    -0.33
DZ                                0.1192 m     87    1.0    -0.49
DX          BELL          br-12   0.1256 m     92    0.8     0.78       0.72
DY                                0.0818 m     92    0.8     0.69
DZ                                0.1017 m     91    0.9    -1.43
DX          BELL          br-11   0.0734 m     90    1.0     1.43       0.89
DY                                0.0447 m     91    0.9    -0.27
DZ                                0.0666 m     90    1.0    -1.35
DX          BELL          br-10   0.1262 m     96    0.6     1.28       0.72
DY                                0.0626 m     96    0.6    -0.29
DZ                                0.1099 m     96    0.6    -1.04
DX          PLAN           br-9   0.0936 m     88    1.0     1.25       0.72
DY                                0.0355 m     86    1.1    -0.14
DZ                                0.0631 m     85    1.1    -0.94
DX          PLAN           br-8   0.1091 m     92    0.8     1.69       1.26
DY                                0.0525 m     91    0.9    -0.51
DZ                                0.0839 m     91    0.9    -1.58
DX          PLAN           br-7   0.0684 m     86    1.1     1.48       0.78
DY                                0.0411 m     88    1.1    -0.33
DZ                                0.0689 m     89    1.1    -1.25
DX          PLAN          br-6p   0.0918 m     89    1.0     0.21       0.34
DY                                0.0482 m     87    1.1    -0.95
DZ                                0.0721 m     86    1.1     0.06
DX          PLAN          br-5p   0.1844 m     80    1.4     0.50       0.22
DY                                0.0731 m     80    1.4     0.09
DZ                                0.0971 m     79    1.4    -0.81
DX          PLAN          br-12   0.1136 m     90    0.9     1.26       0.59
DY                                0.0740 m     91    0.9     0.36
DZ                                0.0921 m     89    1.0    -0.93
DX          PLAN          br-11   0.0602 m     83    1.2     2.61**     2.50**
DY                                0.0361 m     85    1.2    -0.36
DZ                                0.0552 m     84    1.2    -1.20
DX          PLAN          br-10   0.0756 m     88    1.0     2.41**     2.41**
DY                                0.0368 m     88    1.0    -0.17
DZ                                0.0671 m     89    1.0    -2.07**


ESTIMATED ERRORS FOR OBSERVATIONS WITH REJECTED W-TESTS (max 10)

Record          Station        Target   W-test   Fact         Est err

14     DX   Virtual_128         br-11    -2.98    1.5         -0.0505 m
10     DX   Virtual_128          br-7    -2.80    1.4         -0.0515 m
18     DX          BELL          br-7     2.62    1.3          0.0577 m
30     DX          PLAN         br-11     2.61    1.3          0.0562 m
31     DX          PLAN         br-10     2.41    1.2          0.0651 m
15     DX   Virtual_128         br-10    -2.25    1.1         -0.0455 m
14     DZ   Virtual_128         br-11     2.23    1.1          0.0345 m
31     DZ          PLAN         br-10    -2.07    1.1         -0.0497 m
10     DZ   Virtual_128          br-7     2.00    1.0          0.0366 m

ESTIMATED ERRORS FOR OBSERVATIONS WITH REJECTED T-TESTS (max 10)

Record          Station        Target   T-test   Fact         Est err

14     DX   Virtual_128         br-11     3.32    1.3         -0.0405 m
       DY                                                     0.0110 m
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       DZ                                                     0.0153 m
10     DX   Virtual_128          br-7     2.98    1.3         -0.0512 m
       DY                                                     0.0115 m
       DZ                                                     0.0000 m
30     DX          PLAN         br-11     2.50    1.2          0.0701 m
       DY                                                    -0.0036 m
       DZ                                                     0.0181 m
18     DX          BELL          br-7     2.48    1.1          0.0591 m
       DY                                                    -0.0101 m
       DZ                                                     0.0024 m
31     DX          PLAN         br-10     2.41    1.1          0.0460 m
       DY                                                    -0.0142 m
       DZ                                                    -0.0342 m

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A.2 INFORMES

A2.1 INFORMES IMD

A continuación se muestran los informes de la intensidad de tráfico utilizados para determinar el firme de la nueva carretera.

Diputació Barcelona
xarxa de municipis
Àrea d'Infraestructures, Urbanisme i Habitatge
Unitat d'Estadística i Suport Cartogràfic

INTENSITATS DE TRÀNSIT — **BP-2121**

Data del llistat: 23/01/2007

Gestió assumida per la Generalitat de Catalunya amb data 1/11/2006

Codi d'estació: **EA00051** — PQ Inicial: **9.310** — PQ Aforament: **10.000** — PQ Final: **10.265** — IFA: 50%
Secundària

ANY: **2006**	gener	febrer	març	abril	maig	juny	juliol	agost	set.	octubre	nov.	des.	total
DIES AFORATS													
dies d'aforament	1	6	0	0	0	0	0	0	0	0	0	0	7
dl. a dv.	1	4	0	0	0	0	0	0	0	0	0	0	5
dissabtes	0	1	0	0	0	0	0	0	0	0	0	0	1
diumenges	0	1	0	0	0	0	0	0	0	0	0	0	1
INTENSITATS MITJANES													**IMD**
IMD	3.817	5.853	0	0	0	0	0	0	0	0	0	0	5.793
IMD dl.a dv.	5.344	5.760	0	0	0	0	0	0	0	0	0	0	5.677
IMD dissabtes	0	6.313	0	0	0	0	0	0	0	0	0	0	6.313
IMD diumenges	0	5.857	0	0	0	0	0	0	0	0	0	0	5.857
INTENSITATS MITJANES DE PESANTS													**IDM**
IDM	429	541	0	0	0	0	0	0	0	0	0	0	534
IDM dl.a dv.	601	645	0	0	0	0	0	0	0	0	0	0	636
IDM dissabtes	0	350	0	0	0	0	0	0	0	0	0	0	350
IDM diumenges	0	209	0	0	0	0	0	0	0	0	0	0	209
FACTORS													
Factor L	1,0623	0,9856											1,0000
Factor S													1,0205
FACTORS DE PESANTS													
Factor L	1,0589	0,9863											1,0000
Factor S													0,8398
VOLUM PER SENTIT		**Sentit A: la Llacuna**						**Sentit B: Sant Martí Sarroca**					
Sentit A	50,19%	50,08%											50,09%
Sentit B	49,81%	49,92%											49,91%
VOLUM DE PESANTS PER SENTIT		**Sentit A: la Llacuna**						**Sentit B: Sant Martí Sarroca**					
Sentit A	36,77%	34,11%											34,54%
Sentit B	63,23%	65,89%											65,46%
VOLUM PER DIA DE LA SETMANA													
dilluns	0,00%	15,53%											13,48%
dimarts	100,00%	0,00%											13,18%
dimecres	0,00%	15,98%											13,88%
dijous	0,00%	16,35%											14,20%
divendres	0,00%	17,58%											15,26%
dissabte	0,00%	17,93%											15,57%
diumenge	0,00%	16,63%											14,44%
VOLUM DE PESANTS PER DIA DE LA SETMANA													
dilluns	0,00%	19,43%											16,31%
dimarts	100,00%	0,00%											16,07%
dimecres	0,00%	19,97%											16,76%
dijous	0,00%	21,50%											18,04%
divendres	0,00%	21,31%											17,88%
dissabte	0,00%	11,15%											9,36%
diumenge	0,00%	6,66%											5,59%
CLASSIFICACIÓ DELS VEHICLES													
Classe A:tme,frg,4x4	87,69%	89,75%											89,48%
Classe B: 2 e. rígids	7,92%	6,54%											6,72%
Classe C:arti. lleugers.	0,75%	0,77%											0,77%
Classe D:arti. pesants	1,44%	0,73%											0,83%
Classe E:autob.autocars	1,14%	0,87%											0,91%
Classe F:sense clas.	1,07%	1,33%											1,29%
Classe G:bic. mtos lleug	0,00%	0,00%											0,00%
HORA PUNTA													
Dia	31	05											05
Hora	14	14											14
Volum	411	590											590

HORES 30 - 50 - 100					
Hora 30	Data: 01/02	Hora: 18	Volum:	386	
Hora 50	Data: 01/02	Hora: 09	Volum:	353	
Hora 100	Data: 02/02	Hora: 22	Volum:	201	

VELOCITATS													
0 - 50	2,40%	4,02%											3,80%
51 - 90	32,90%	31,77%											31,92%
91 - 100	27,17%	28,56%											28,37%
101 - 120	30,58%	28,75%											28,99%
> 120	6,96%	6,91%											6,91%

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INTENSITATS DE TRÀNSIT

BP-2121

Data del llistat: 2/02/2006

Codi d'estació: EA00052 — PQ Inicial: 10.265 — PQ Aforament: 10.465 — PQ Final: 15.400 — IFA: 100%
Secundària

ANY: 2005	gener	febrer	març	abril	maig	juny	juliol	agost	set.	octubre	nov.	des.	total
DIES AFORATS													
dies d'aforament	3	6	0	0	0	0	7	0	0	0	0	0	16
dl. a dv.	1	4	0	0	0	0	5	0	0	0	0	0	10
dissabtes	1	1	0	0	0	0	1	0	0	0	0	0	3
diumenges	1	1	0	0	0	0	1	0	0	0	0	0	3
INTENSITATS MITJANES													IMD
IMD	955	1.028	0	0	0	0	1.143	0	0	0	0	0	1.068
IMD dl.a dv.	938	1.027	0	0	0	0	1.125	0	0	0	0	0	1.057
IMD dissabtes	953	1.062	0	0	0	0	1.188	0	0	0	0	0	1.068
IMD diumenges	1.040	1.003	0	0	0	0	1.184	0	0	0	0	0	1.076
INTENSITATS MITJANES DE PESANTS													IDM
IDM	123	126	0	0	0	0	259	0	0	0	0	0	187
IDM dl.a dv.	130	148	0	0	0	0	274	0	0	0	0	0	207
IDM dissabtes	116	96	0	0	0	0	244	0	0	0	0	0	152
IDM diumenges	96	70	0	0	0	0	201	0	0	0	0	0	122
FACTORS													
Factor L	1,1376	1,0393					0,9484						1,0000
Factor S													1,0012
FACTORS DE PESANTS													
Factor L	1,5923	1,4601					0,7560						1,0000
Factor S													0,9036
VOLUM PER SENTIT		Sentit A: la Llacuna					Sentit B: Sant Martí Sarroca						
Sentit A	49,16%	49,25%					49,71%						49,45%
Sentit B	50,84%	50,75%					50,29%						50,55%
VOLUM DE PESANTS PER SENTIT		Sentit A: la Llacuna					Sentit B: Sant Martí Sarroca						
Sentit A	84,50%	83,45%					12,90%						39,34%
Sentit B	15,50%	16,55%					87,10%						60,66%
VOLUM PER DIA DE LA SETMANA													
dilluns	32,00%	0,00%					12,99%						11,56%
dimarts	0,00%	16,28%					13,62%						12,24%
dimecres	0,00%	15,78%					14,89%						12,66%
dijous	0,00%	15,98%					13,44%						12,05%
divendres	0,00%	18,50%					15,40%						13,88%
dissabte	32,51%	17,21%					14,85%						18,73%
diumenge	35,48%	16,25%					14,80%						18,87%
VOLUM DE PESANTS PER DIA DE LA SETMANA													
dilluns	38,01%	0,00%					13,84%						13,17%
dimarts	0,00%	19,40%					15,05%						14,38%
dimecres	0,00%	20,90%					15,55%						15,07%
dijous	0,00%	16,15%					14,06%						12,93%
divendres	0,00%	21,03%					16,98%						16,00%
dissabte	33,92%	13,03%					13,45%						15,76%
diumenge	28,07%	9,50%					11,08%						12,69%
CLASSIFICACIÓ DELS VEHICLES													
Classe A:tme,mg,4x4	86,08%	85,47%					72,13%						79,33%
Classe B:2e.rígids	10,27%	10,56%					20,02%						14,93%
Classe C:articulleugers.	0,89%	0,58%					1,20%						0,92%
Classe D:articpesants	0,10%	0,13%					0,68%						0,38%
Classe E:autobautocars	0,41%	0,66%					0,79%						0,58%
Classe F:sense dad.	2,25%	2,59%					5,19%						3,75%
Classe G:bic.motos lleug	0,00%	0,00%					0,00%						0,00%
HORA PUNTA													
Dia	30	06					24						06
Hora	14	13					13						13
Volum	110	141					115						141
HORES 30 - 50 - 100													
Hora 30			Data: 21/07		Hora: 20		Volum:	87					
Hora 50			Data: 23/07		Hora: 19		Volum:	79					
Hora 100			Data: 22/07		Hora: 11		Volum:	68					
VELOCITATS													
0 - 50	25,21%	25,99%					24,27%						25,05%
51 - 90	72,53%	72,31%					71,84%						72,13%
91 - 100	1,47%	1,31%					2,41%						1,85%
101 - 120	0,72%	0,36%					1,29%						0,85%
> 120	0,07%	0,03%					0,19%						0,11%

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INTENSITATS DE TRÀNSIT

BP-2121

Data del llistat: 2/02/2006

Codi d'estació: EA00053 — PQ Inicial: 15.400 — PQ Aforament: 19.815 — PQ Final: 20.365 — IFA: 100%
Secundària

ANY: 2005	gener	febrer	març	abril	maig	juny	juliol	agost	set.	octubre	nov.	des.	total
DIES AFORATS													
dies d'aforament	0	7	0	0	0	0	0	0	0	10	1	0	18
dl. a dv.	0	5	0	0	0	0	0	0	0	6	1	0	12
dissabtes	0	1	0	0	0	0	0	0	0	2	0	0	3
diumenges	0	1	0	0	0	0	0	0	0	2	0	0	3
INTENSITATS MITJANES													IMD
IMD	0	297	0	0	0	0	0	0	0	498	0	0	414
IMD dl.a dv.	0	251	0	0	0	0	0	0	0	437	0	0	353
IMD dissabtes	0	359	0	0	0	0	0	0	0	595	0	0	516
IMD diumenges	0	461	0	0	0	0	0	0	0	703	0	0	622
INTENSITATS MITJANES DE PESANTS													IDM
IDM	0	32	0	0	0	0	0	0	0	34	0	0	33
IDM dl.a dv.	0	39	0	0	0	0	0	0	0	40	0	0	39
IDM dissabtes	0	22	0	0	0	0	0	0	0	21	0	0	21
IDM diumenges	0	10	0	0	0	0	0	0	0	15	0	0	13
FACTORS													
Factor L		1,4094								0,8067			1,0000
Factor S													1,1756
FACTORS DE PESANTS													
Factor L		1,0169								0,9864			1,0000
Factor S													0,8374
VOLUM PER SENTIT		Sentit A: la Llacuna						Sentit B: Sant Martí Sarroca					
Sentit A		50,00%								49,47%	43,60%		49,14%
Sentit B		50,00%								50,53%	56,40%		50,86%
VOLUM DE PESANTS PER SENTIT		Sentit A: la Llacuna						Sentit B: Sant Martí Sarroca					
Sentit A		61,95%								52,58%	30,77%		55,92%
Sentit B		38,05%								47,42%	69,23%		44,08%
VOLUM PER DIA DE LA SETMANA													
dilluns		12,76%								14,30%	0,00%		12,76%
dimarts		10,07%								6,73%	100,00%		15,05%
dimecres		11,13%								7,25%	0,00%		7,68%
dijous		12,62%								7,76%	0,00%		8,42%
divendres		13,92%								14,22%	0,00%		13,01%
dissabte		17,29%								22,81%	0,00%		19,54%
diumenge		22,21%								26,93%	0,00%		23,54%
VOLUM DE PESANTS PER DIA DE LA SETMANA													
dilluns		23,45%								21,29%	0,00%		21,68%
dimarts		11,95%								10,85%	100,00%		13,30%
dimecres		18,14%								7,42%	0,00%		11,66%
dijous		11,50%								13,55%	0,00%		12,39%
divendres		20,80%								24,52%	0,00%		22,40%
dissabte		9,73%								13,23%	0,00%		11,48%
diumenge		4,42%								9,35%	0,00%		7,10%
CLASSIFICACIÓ DELS VEHICLES													
Classe A:tme,mg,4x4		83,67%								89,21%	85,31%		87,45%
Classe B:2e.rígids		8,67%								4,84%	1,90%		5,48%
Classe C:articulleugers.		1,20%								0,58%	0,16%		0,71%
Classe D:articpesants		0,34%								0,33%	0,00%		0,30%
Classe E:autobautocars		0,67%								0,40%	0,00%		0,44%
Classe F:sense dad.		5,44%								4,85%	12,64%		5,83%
Classe G:bic.motos lleug		0,00%								0,00%	0,00%		0,00%
HORA PUNTA													
Dia		13								28	01		28
Hora		13								19	14		19
Volum		78								106	90		106
HORES 30 - 50 - 100													
Hora 30			Data: 22/10		Hora: 11		Volum:	47					
Hora 50			Data: 30/10		Hora: 20		Volum:	38					
Hora 100			Data: 31/10		Hora: 18		Volum:	28					
VELOCITATS													
0 - 50		2,50%								1,88%	0,95%		1,97%
51 - 90		82,80%								85,24%	85,94%		84,66%
91 - 100		11,95%								9,80%	6,48%		9,97%
101 - 120		2,55%								3,03%	5,37%		3,09%
> 120		0,19%								0,25%	1,26%		0,32%

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INTENSITATS DE TRÀNSIT

BV-2122

Data del llistat: 20/02/2007

Codi d'estació: EA00242 PQ Inicial: 0 PQ Aforament: 1.000 PQ Final: 4.000 IFA: 100%
Secundària

ANY: 2006	gener	febrer	març	abril	maig	juny	juliol	agost	set.	octubre	nov.	des.	total
DIES AFORATS													
dies d'aforament	0	0	7	0	0	0	0	0	0	0	0	7	14
dl. a dv.	0	0	5	0	0	0	0	0	0	0	0	5	10
dissabtes	0	0	1	0	0	0	0	0	0	0	0	1	2
diumenges	0	0	1	0	0	0	0	0	0	0	0	1	2
INTENSITATS MITJANES													IMD
IMD	0	0	5.031	0	0	0	0	0	0	0	0	5.025	5.028
IMD dl.a dv.	0	0	5.035	0	0	0	0	0	0	0	0	5.045	5.040
IMD dissabtes	0	0	5.363	0	0	0	0	0	0	0	0	5.262	5.313
IMD diumenges	0	0	4.677	0	0	0	0	0	0	0	0	4.687	4.682
INTENSITATS MITJANES DE PESANTS													IDM
IDM	0	0	164	0	0	0	0	0	0	0	0	744	454
IDM dl.a dv.	0	0	172	0	0	0	0	0	0	0	0	844	508
IDM dissabtes	0	0	263	0	0	0	0	0	0	0	0	530	397
IDM diumenges	0	0	28	0	0	0	0	0	0	0	0	458	243
FACTORS													
Factor L			1,0010									0,9990	1,0000
Factor S													0,9976
FACTORS DE PESANTS													
Factor L			2,9569									0,6018	1,0000
Factor S													0,8941
VOLUM PER SENTIT			Sentit A: Torrelles de Fols					Sentit B: BP-2121					
Sentit A			50,14%									50,25%	50,20%
Sentit B			49,86%									49,75%	49,80%
VOLUM DE PESANTS PER SENTIT			Sentit A: Torrelles de Fols					Sentit B: BP-2121					
Sentit A			51,65%									22,81%	28,02%
Sentit B			48,35%									77,19%	71,98%
VOLUM PER DIA DE LA SETMANA													
dilluns			13,81%									14,29%	14,05%
dimarts			13,97%									13,73%	13,85%
dimecres			14,35%									13,85%	14,10%
dijous			14,55%									14,54%	14,54%
divendres			14,82%									15,31%	15,06%
dissabte			15,23%									14,96%	15,09%
diumenge			13,28%									13,32%	13,30%
VOLUM DE PESANTS PER DIA DE LA SETMANA													
dilluns			19,30%									16,43%	16,95%
dimarts			7,39%									16,49%	14,85%
dimecres			0,00%									15,74%	12,90%
dijous			0,00%									16,89%	13,84%
divendres			48,00%									15,47%	21,36%
dissabte			22,87%									10,17%	12,47%
diumenge			2,43%									8,79%	7,64%
CLASSIFICACIÓ DELS VEHICLES													
Classe A:tme.,ftg,4x4			96,30%									84,48%	90,39%
Classe B:2e.rigids			2,08%									11,98%	7,03%
Classe C:articulegers.			0,32%									0,84%	0,58%
Classe D:articpesants			0,45%									1,02%	0,73%
Classe E:autobautocars			0,42%									0,97%	0,69%
Classe F:sense das.			0,43%									0,71%	0,57%
Classe G:bic.motos lleug			0,00%									0,00%	0,00%
HORA PUNTA													
Dia			18									17	18
Hora			12									18	12
Volum			510									437	510
HORES 30 - 50 - 100													
Hora 30		Data: 19/03		Hora: 20		Volum:	367						
Hora 50		Data: 13/12		Hora: 19		Volum:	347						
Hora 100		Data: 21/03		Hora: 12		Volum:	302						
VELOCITATS													
0 - 50			65,45%									7,46%	36,47%
51 - 90			27,47%									63,85%	45,65%
91 - 100			5,18%									18,75%	11,96%
101 - 120			1,79%									9,16%	5,48%
> 120			0,11%									0,78%	0,44%

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INTENSITATS DE TRÀNSIT

BV-2122

Data del llistat: 28/02/2008

Codi d'estació: EA00243 PQ Inicial: 4.000 PQ Aforament: 6.650 PQ Final: 9.328 IFA: 75%
Secundària

ANY: 2007	gener	febrer	març	abril	maig	juny	juliol	agost	set.	octubre	nov.	des.	total
DIES AFORATS													
dies d'aforament	0	0	0	7	0	0	0	0	0	7	0	0	14
dl. a dv.	0	0	0	5	0	0	0	0	0	5	0	0	10
dissabtes	0	0	0	1	0	0	0	0	0	1	0	0	2
diumenges	0	0	0	1	0	0	0	0	0	1	0	0	2
INTENSITATS MITJANES													IMD
IMD	0	0	0	1.401	0	0	0	0	0	1.369	0	0	1.386
IMD dl.a dv.	0	0	0	1.219	0	0	0	0	0	1.201	0	0	1.211
IMD dissabtes	0	0	0	1.837	0	0	0	0	0	1.873	0	0	1.855
IMD diumenges	0	0	0	1.877	0	0	0	0	0	1.708	0	0	1.793
INTENSITATS MITJANES DE PESANTS													IDM
IDM	0	0	0	434	0	0	0	0	0	122	0	0	288
IDM dl.a dv.	0	0	0	392	0	0	0	0	0	141	0	0	281
IDM dissabtes	0	0	0	493	0	0	0	0	0	84	0	0	289
IDM diumenges	0	0	0	583	0	0	0	0	0	62	0	0	323
FACTORS													
Factor L				0,9935						1,0083			1,0000
Factor S													1,1447
FACTORS DE PESANTS													
Factor L				0,7153						1,9898			1,0000
Factor S													1,0254
VOLUM PER SENTIT				Sentit A: Pontons						Sentit B: Torrelles de Fols			
Sentit A				50,11%						48,89%			49,49%
Sentit B				49,89%						51,11%			50,51%
VOLUM DE PESANTS PER SENTIT				Sentit A: Pontons						Sentit B: Torrelles de Fols			
Sentit A				8,43%						42,15%			15,21%
Sentit B				91,57%						57,85%			84,79%
VOLUM PER DIA DE LA SETMANA													
dilluns				11,90%						11,94%			11,92%
dimarts				11,67%						11,65%			11,66%
dimecres				11,98%						11,45%			11,71%
dijous				12,61%						11,97%			12,29%
divendres				13,97%						17,92%			15,98%
dissabte				18,73%						18,34%			18,53%
diumenge				19,14%						16,72%			17,91%
VOLUM DE PESANTS PER DIA DE LA SETMANA													
dilluns				12,97%						21,20%			14,63%
dimarts				12,71%						15,58%			13,29%
dimecres				12,28%						19,90%			13,81%
dijous				13,70%						17,15%			14,39%
divendres				12,91%						7,07%			11,73%
dissabte				16,23%						10,99%			15,18%
diumenge				19,20%						8,12%			16,97%
CLASSIFICACIÓ DELS VEHICLES													
Classe A:tme.,ftg,4x4				66,48%						89,11%			78,03%
Classe B:2e.rigids				28,44%						5,65%			16,81%
Classe C:articulegers.				0,82%						1,03%			0,92%
Classe D:articpesants				0,25%						0,13%			0,19%
Classe E:autobautocars				1,46%						0,68%			1,06%
Classe F:sense das.				2,55%						3,41%			2,99%
Classe G:bic.motos lleug				0,00%						0,00%			0,00%
HORA PUNTA													
Dia				21						12			12
Hora				13						13			13
Volum				189						206			206
HORES 30 - 50 - 100													
Hora 30		Data: 21/04		Hora: 11		Volum:	127						
Hora 50		Data: 21/04		Hora: 17		Volum:	100						
Hora 100		Data: 16/10		Hora: 13		Volum:	81						
VELOCITATS													
0 - 50				3,07%						2,89%			2,88%
51 - 90				62,77%						74,96%			68,85%
91 - 100				16,03%						14,25%			15,14%
101 - 120				13,83%						7,11%			10,48%
> 120				4,30%						1,00%			2,65%

A2.2 FICHA TÉCNICA GPS

HOJA DE DATOS

PRINCIPALES CARACTERÍSTICAS

Un sistema diseñado en campo

Avanzada tecnología GPS de Trimble para sus aplicaciones

Topografía integrada para combinar sistemas y técnicas en campo

Mejora del trabajo a través del Connected Survey Site de Trimble

El sistema GPS Trimble R6 se muestra con el controlador Trimble TSC2, aunque se soporta el controlador Trimble CU.

MÁS DE 20 AÑOS DE INNOVACIÓN Y ÉXITO DE TRABAJO EN CAMPO

Nadie puede ser un gran topógrafo de la noche a la mañana; se necesitan años de desarrollo profesional y experiencia en campo. De la misma manera, el Sistema GPS Trimble® R6 ofrece tecnología avanzada y un diseño de sistema que se prueba a sí mismo en el lugar de trabajo. Es un sistema GPS tan cualificado para la topografía como usted.

MÁS QUE UN RECEPTOR...UN SISTEMA COMPLETO

El Sistema GPS Trimble R6 comprende cuatro partes integradas:

- **Receptor Trimble R6:** La unidad receptora combina un receptor GPS avanzado, la antena, la batería y la radio integradas en una unidad lista para el trabajo en campo.
- **Controlador Trimble TSC2 ó Trimble CU:** Ambos controladores trabajan en equipo perfectamente con el receptor. Con el receptor y el controlador en el mismo jalón, el sistema GPS Trimble R6 es ligero, robusto e inalámbrico. El controlador Trimble® TSC2® incorpora la última versión del sistema operativo Windows de Microsoft, de manera que todo lo que UD sabe de la oficina se aplica fácilmente en el campo.
- **Software de campo de Trimble:** Diseñado por topógrafos para topógrafos, el software de campo Trimble Survey Controller™ es la clave para el flujo de datos continuo, la eficiencia en campo y el auténtico concepto de Topografía Integrada
- **Trimble Business Center, el software de oficina:** Transfiera fácilmente los datos de campo GNSS a la oficina para el procesamiento de los datos, después exporte sus datos GNSS a su software de diseño favorito.

TECNOLOGÍA GPS EN LA QUE PUEDE CONFIAR

El receptor Trimble R6 proporciona la máxima precisión y fiabilidad con GPS. Además, la opción de tecnológica Trimble R-Track™ proporciona el soporte GLONASS. El GLONASS aumenta y mejora la solución GPS de manera que UD puede ver más satélites y medir con mayor éxito en situaciones poco favorables.

Esta capacidad es impulsada por un innovador motor RTK que hace la inicialización más rápida y su flujo de trabajo topográfico más eficiente. Reduzca la pérdida de tiempo ocasionada por la pérdida de inicialización y el tiempo que necesita para re-inicializar.

VERDADERO INTEGRATED SURVEYING™ DE TRIMBLE

El sistema GPS Trimble R6 se puede integrar con otros sistemas de topografía en su lugar de trabajo para mayor flexibilidad. Con el controlador Trimble y el software de campo, controle el GPS y los datos de estaciones totales en un archivo de trabajo simplemente conmutando el controlador entre los sensores. Cuando el trabajo de campo está completo, transfiera el archivo de trabajo a su software de oficina usando la opción de comunicación que mejor se adapte a sus necesidades

El Trimble R6 también se puede utilizar como parte de un rover Trimble® I5. Simplemente agregue un prisma al jalón del rover y combine el Trimble R6 con un sistema óptico robótico como la Estación Total Trimble® S6. Esta solución integrada le permite aprovechar al máximo lo mejor de ambas técnicas de levantamiento topográfico para lograr en el campo una eficiencia incluso mayor.

EL MODELO CONNECTED SITE DE TRIMBLE

En el modelo Connected Site de Trimble las herramientas, las técnicas, los servicios y las relaciones de negocios trabajan juntos para llevarlo a niveles de éxito profesional inimaginables hasta el momento. Acompañado con Trimble, aumentará drásticamente su efectividad en cada trabajo. Y cuando vea el potencial que puede ofrecer el Sistema GPS Trimble R6 y otras soluciones Trimble, sabrá que ha tomado la decisión correcta.

Trimble

SISTEMA GPS TRIMBLE R6

ESPECIFICACIONES DE FUNCIONAMIENTO

Mediciones

- Tecnología Trimble R-Track para soporte GLONASS
- Chip GNSS topográfico personalizado Trimble Maxwell™ avanzado
- Correlador múltiple de alta precisión para medidas de pseudodistancia de GNSS
- Sin filtrado, datos de medidas de pseudodistancia sin suavizado, para lograr un bajo ruido, bajo índice de error multipath, un bajo tiempo de correlación y una alta respuesta dinámica
- Medidas de fase portadora de L1, L2 y L5 de muy bajo ruido con una precisión <1 mm en un ancho de banda de 1 Hz
- Las razones de señal-ruido de L1, L2 y L5 se señalan en dB-Hz
- Probada tecnología de rastreo de baja elevación de Trimble
- 72 Canales:
  - Código GPS L1 C/A, Portadora de Ciclo Completo L1/L2
  - Código GLONASS L1 C/A , Código L1 P, Código L2P, Portadora de Ciclo Completo L1/L2
  - Soporte SBAS WAAS/EGNOS

Posicionamiento GPS de código diferencial[1]

Horizontal	±0,25 m + 1 ppm RMS
Vertical	±0,50 m + 1 ppm RMS
Precisión de posicionamiento WAAS diferencial[2]	Por lo general <5 m 3DRMS

Levantamientos GPS estáticos y FastStatic (estáticos rápidos)[1]

Horizontal	±5 mm + 0,5 ppm RMS
Vertical	±5 mm + 1 ppm RMS

Levantamientos cinemáticos[1]

Horizontal	±10 mm + 1 ppm RMS
Vertical	±20 mm + 1 ppm RMS
Tiempo de inicialización	Típico <25-30 segundos
Fiabilidad en la inicialización[3]	Típico >99,9%

HARDWARE

Características físicas

Dimensiones (AnchoxAlto)	19 cm x 11,5 cm (7,5 pulg x 4,4 pulg), incluyendo los conectores
Peso	1,35 kg (2,97 lb) con batería interna, radio interna, antena UHF estándar. Móvil RTK completo de 3,71 kg (8,18 lb) incluyendo baterías, jalón, controlador y soporte

Temperatura[4]	
De funcionamiento	–40 °C a +65 °C (–40 °F a +149 °F)
De almacenamiento	–40 °C a +75 °C (–40 °F a +167 °F)
Humedad	100%, con condensación
Impermeable	Cumple el estándar IPX7; protección frente a inmersiones de 1 m (3,28 pies)
Golpes y vibraciones	Ha sido probado y cumple con los siguientes estándares medioambientales:
Golpes	Apagado: ha sido diseñado para resistir caídas de hasta 2 m (6,6 pies) sobre hormigón. Funcionamiento: Hasta 40 G, 10 mseg, diente de sierra
Vibraciones	Cumple con el estándar MIL-STD-810F, FIG.514.5C-1

Características eléctricas

- Entrada de alimentación externa de 11 a 28 V CC con protección contra sobretensión en el puerto 1 (Lemo de 7 pines)
- Batería de litio-ion recargable, extraíble de 7,4 V, 2,4 Ah en un compartimiento interno para batería. El consumo de alimentación es <3,1 W, en el modo RTK con radio interna. Tiempos de funcionamiento con la batería interna:
  – De 450 MHz con capacidad de recepción solamente unas 5,3 horas; puede variar según la temperatura
  – De 450 MHz con capacidad de recepción/transmisión unas 3,5 horas; puede variar según la temperatura y la velocidad de datos inalámbrica
  – Con GSM/GPRS unas 3,8 horas; puede variar según la temperatura
- Certificación Clase B Parte 15, 22, 24 de la certificación FCC, 850/1900 MHz. Clase 10 con módulo GSM/GPRS. Con aprobación de marca de tipo CE y marca C-tick

Comunicaciones y almacenamiento de datos

- Cable de puerto de serie (Lemo de 7 pines) en el puerto 1. Serie RS-232 completo en el puerto 2 (Dsub de 9 pines)
- Opción de radio receptora/transmisora de 450 MHz, totalmente integrada y sellada:
  – Potencia de transmisión: 0,5 W
  – Rango[5] : por lo general de 3–5 km / 10 km óptimo
- Opción GSM/GPRS interna totalmente integrada y sellada[6]
- Puerto de comunicaciones totalmente integrado y sellado de 2,4 GHz (Bluetooth®)[6]
- Soporte para teléfono celular externo para los módems GSM/GPRS/ CDPD para operaciones RTK y VRS
- Almacenamiento de datos en 11 MB de memoria interna: 302 horas de observables brutos en función del registro de datos de 6 satélites en intervalos de 15 segundos
- Posicionamiento a 1 Hz, 2 Hz, 5 Hz y 10 Hz
- Entrada y salida CMRII, CMR+, RTCM 2.1, RTCM 2.3, RTCM 3.0
- 16 salidas NMEA. Salidas GSOF y RT17. Compatible con fase portadora suavizada y BINEX

1 La precisión y fiabilidad pueden estar sujetas a anomalías tales como la trayectoria múltiple, obstrucciones, la geometría de los satélites y las condiciones atmosféricas. Siempre cumpla con las prácticas topográficas recomendadas.
2 Depende del funcionamiento del sistema WAAS/EGNOS.
3 Puede verse afectada por las condiciones atmosféricas, las señales de trayectoria múltiple y la geometría de los satélites. La fiabilidad de inicialización se controla continuamente a fin de asegurar la más alta calidad.
4 Normalmente, el receptor funcionará hasta –40 °C, la capacidad normal del módulo Bluetooth y de las baterías está fijada en –20 °C.
5 Varía con el terreno y las condiciones operativas.
6 Las aprobaciones del tipo de tecnología Bluetooth y GSM son específicas según el país. Contacte al representante u oficina local de Trimble para obtener más información.

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Trimble

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A2.3 INFORME DE LÍNEAS BASE

Leica Geosystems

Processing Summary
postSKY-021009

Project Information

Project name:	postSKY-021009
Date created:	12/19/2009 15:46:55
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	10/02/2009 07:48:31
End date and time:	10/02/2009 08:23:52
Manually occupied points:	1
Processing kernel:	PSI-Pro 1.0
Processed:	12/22/2009 19:58:33

Processing Parameters

Parameters	Selected
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5' 00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-1 - br-2	Reference: br-1	Rover: br-2
Coordinates:		
Latitude:	41° 23' 23.82377" N	41° 23' 28.44389" N
Longitude:	1° 35' 57.68243" E	1° 35' 57.94949" E
Ellip. Hgt:	361.3930 m	364.0703 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021009

Project Information

Project name:	postSKY-021009
Date created:	12/19/2009 15:46:55
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	10/02/2009 07:48:31
End date and time:	10/02/2009 09:08:25
Manually occupied points:	2
Processing kernel:	PSI-Pro 1.0
Processed:	12/22/2009 19:59:38

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5' 00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-2 - br-1	**Reference: br-2**	**Rover: br-1**
Coordinates:		
Latitude:	41° 23' 28.44409" N	41° 23' 23.82396" N
Longitude:	1° 35' 57.94958" E	1° 35' 57.68252" E
Ellip. Hgt:	364.0618 m	361.3844 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

br-2 - br-3	**Reference: br-2**	**Rover: br-3**
Coordinates:		
Latitude:	41° 23' 28.44409" N	41° 23' 27.09495" N
Longitude:	1° 35' 57.94958" E	1° 36' 06.66164" E
Ellip. Hgt:	364.0618 m	359.7441 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021009

Project Information

Project name:	postSKY-021009
Date created:	12/19/2009 15:46:55
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	10/02/2009 08:30:27
End date and time:	10/02/2009 10:00:03
Manually occupied points:	2
Processing kernel:	PSI-Pro 1.0
Processed:	12/22/2009 20:00:39

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5' 00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-3 - br-2	**Reference: br-3**	**Rover: br-2**
Coordinates:		
Latitude:	41° 23' 27.09475" N	41° 23' 28.44389" N
Longitude:	1° 36' 06.66186" E	1° 35' 57.94980" E
Ellip. Hgt:	359.7475 m	364.0652 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

br-3 - br-4	**Reference: br-3**	**Rover: br-4**
Coordinates:		
Latitude:	41° 23' 28.44409" N	41° 23' 27.09495" N
Longitude:	1° 35' 57.94958" E	1° 36' 06.66164" E
Ellip. Hgt:	364.0618 m	359.7441 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 09:12:10
End date and time:	12/02/2009 09:47:07
Manually occupied points:	1
Processing kernel:	PSI-Pro 1 .0
Processed:	01/09/2010 18:29:40

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5'00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-5p - br-6p	**Reference: br-5p**	**Rover: br-6p**
Coordinates:		
Latitude:	41° 23' 25.40328" N	41° 23' 21.90752" N
Longitude:	1° 36' 31.74634" E	1° 36' 41.04905" E
Ellip. Hgt:	374.5492 m	370.3903 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 09:12:10
End date and time:	12/02/2009 10:32:00
Manually occupied points:	2
Processing kernel:	PSI-Pro 1 .0
Processed:	01/09/2010 18:30:52

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5'00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-6p - br-5p	**Reference: br-6p**	**Rover: br-5p**
Coordinates:		
Latitude:	41° 23' 21.90772" N	41° 23' 25.40348" N
Longitude:	1° 36' 41.04905" E	1° 36' 31.74635" E
Ellip. Hgt:	370.3863 m	374.5452 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

br-6p - br-7	**Reference: br-6p**	**Rover: br-7**
Coordinates:		
Latitude:	41° 23' 21.90772" N	41° 23' 23.41225" N
Longitude:	1° 36' 41.04905" E	1° 36' 47.34667" E
Ellip. Hgt:	370.3863 m	368.1491 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 10:00:07
End date and time:	12/02/2009 11:24:18
Manually occupied points:	2
Processing kernel:	PSI-Pro 1.0
Processed:	01/09/2010 18:31:43

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5'00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-7 - br-6p	**Reference: br-7**	**Rover: br-6p**
Coordinates:		
Latitude:	41° 23' 23.41201" N	41° 23' 21.90749" N
Longitude:	1° 36' 47.34668" E	1° 36' 41.04907" E
Ellip. Hgt:	368.1440 m	370.3811 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

br-7 - br-8	**Reference: br-7**	**Rover: br-8**
Coordinates:		
Latitude:	41° 23' 23.41201" N	41° 23' 16.21361" N
Longitude:	1° 36' 47.34668" E	1° 36' 58.86159" E
Ellip. Hgt:	368.1440 m	361.6900 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 10:45:54
End date and time:	12/02/2009 12:01:27
Manually occupied points:	2
Processing kernel:	PSI-Pro 1.0
Processed:	01/09/2010 18:32:28

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5'00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-8 - br-7	**Reference: br-8**	**Rover: br-7**
Coordinates:		
Latitude:	41° 23' 16.21352" N	41° 23' 23.41193" N
Longitude:	1° 36' 58.86162" E	1° 36' 47.34671" E
Ellip. Hgt:	361.6873 m	368.1413 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

br-8 - br-9	**Reference: br-8**	**Rover: br-9**
Coordinates:		
Latitude:	41° 23' 16.21352" N	41° 23' 11.42259" N
Longitude:	1° 36' 58.86162" E	1° 37' 10.46721" E
Ellip. Hgt:	361.6873 m	355.9257 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1 h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 11:32:38
End date and time:	12/02/2009 12:47:10
Manually occupied points:	2
Processing kernel:	PSI-Pro 1.0
Processed:	01/09/2010 18:33:04

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5'00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-9 - br-8	**Reference: br-9**	**Rover: br-8**
Coordinates:		
Latitude:	41° 23' 11.42261" N	41° 23' 16.21353" N
Longitude:	1° 37' 10.46726" E	1° 36' 58.86167" E
Ellip. Hgt:	355.9250 m	361.6865 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

br-9 - br-10	**Reference: br-9**	**Rover: br-10**
Coordinates:		
Latitude:	41° 23' 11.42261" N	41° 23' 09.13720" N
Longitude:	1° 37' 10.46726" E	1° 37' 29.69724" E
Ellip. Hgt:	355.9250 m	343.7840 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1 h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 12:08:22
End date and time:	12/02/2009 13:32:45
Manually occupied points:	2
Processing kernel:	PSI-Pro 1.0
Processed:	01/09/2010 18:33:43

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5'00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-10 - br-9	**Reference: br-10**	**Rover: br-9**
Coordinates:		
Latitude:	41° 23' 09.13716" N	41° 23' 11.42257" N
Longitude:	1° 37' 29.69729" E	1° 37' 10.46731" E
Ellip. Hgt:	343.7840 m	355.9252 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

br-10 - br-11	**Reference: br-10**	**Rover: br-11**
Coordinates:		
Latitude:	41° 23' 09.13716" N	41° 23' 07.24442" N
Longitude:	1° 37' 29.69729" E	1° 37' 44.50667" E
Ellip. Hgt:	343.7840 m	323.9355 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 12:57:38
End date and time:	12/02/2009 14:16:42
Manually occupied points:	2
Processing kernel:	PSI-Pro 1.0
Processed:	01/09/2010 18:34:29

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5'00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-11 - br-10	**Reference: br-11**	**Rover: br-10**
Coordinates:		
Latitude:	41° 23' 07.24449" N	41° 23' 09.13722" N
Longitude:	1° 37' 44.50681" E	1° 37' 29.69742" E
Ellip. Hgt:	323.9436 m	343.7921 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

br-11 - br-12	**Reference: br-11**	**Rover: br-12**
Coordinates:		
Latitude:	41° 23' 07.24449" N	41° 23' 04.58629" N
Longitude:	1° 37' 44.50681" E	1° 37' 49.78595" E
Ellip. Hgt:	323.9436 m	320.6653 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 13:43:28
End date and time:	12/02/2009 14:16:42
Manually occupied points:	1
Processing kernel:	PSI-Pro 1.0
Processed:	01/09/2010 18:35:02

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5'00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

br-12 - br-11	**Reference: br-12**	**Rover: br-11**
Coordinates:		
Latitude:	41° 23' 04.58626" N	41° 23' 07.24445" N
Longitude:	1° 37' 49.78609" E	1° 37' 44.50694" E
Ellip. Hgt:	320.6653 m	323.9435 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Leica Geosystems

Processing Summary
postSKY-021009

Project Information

Project name:	postSKY-021009
Date created:	12/19/2009 15:46:55
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	10/02/2009 07:31:43
End date and time:	10/02/2009 11:59:21
Manually occupied points:	18
Processing kernel:	PSI-Pro 1.0
Processed:	12/22/2009 20:04:17

Processing Parameters

Parameters	Selected
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5' 00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

BELL - br-2	**Reference: BELL**	**Rover: br-2**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 28.44412" N
Longitude:	1° 24' 04.09407" E	1° 35' 57.94910" E
Ellip. Hgt:	853.4072 m	363.9099 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-2	**Reference: PLAN**	**Rover: br-2**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 28.44424" N
Longitude:	1° 59' 13.02625" E	1° 35' 57.94931" E
Ellip. Hgt:	319.9546 m	364.1453 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

Virtual_129 - br-2	**Reference: Virtual_129**	**Rover: br-2**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 28.44589" N
Longitude:	1° 36' 58.22255" E	1° 35' 57.94995" E
Ellip. Hgt:	291.8001 m	364.1143 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

BELL - br-4	**Reference: BELL**	**Rover: br-4**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 28.23817" N
Longitude:	1° 24' 04.09407" E	1° 36' 24.01190" E
Ellip. Hgt:	853.4072 m	375.7140 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-4	**Reference: PLAN**	**Rover: br-4**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 28.23814" N
Longitude:	1° 59' 13.02625" E	1° 36' 24.01212" E
Ellip. Hgt:	319.9546 m	375.9447 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

Virtual_129 - br-4	**Reference: Virtual_129**	**Rover: br-4**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 28.24021" N
Longitude:	1° 36' 58.22255" E	1° 36' 24.01275" E
Ellip. Hgt:	291.8001 m	375.8937 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

BELL - br-6	**Reference: BELL**	**Rover: br-6**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 21.90677" N
Longitude:	1° 24' 04.09407" E	1° 36' 41.04892" E
Ellip. Hgt:	853.4072 m	370.2301 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-6	**Reference: PLAN**	**Rover: br-6**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 21.90704" N
Longitude:	1° 59' 13.02625" E	1° 36' 41.04886" E
Ellip. Hgt:	319.9546 m	370.4312 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

Virtual_129 - br-6	**Reference: Virtual_129**	**Rover: br-6**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 21.90858" N
Longitude:	1° 36' 58.22255" E	1° 36' 41.04981" E
Ellip. Hgt:	291.8001 m	370.4452 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

BELL - br-1	**Reference: BELL**	**Rover: br-1**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 23.82097" N
Longitude:	1° 24' 04.09407" E	1° 35' 57.68085" E
Ellip. Hgt:	853.4072 m	361.1259 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-1	**Reference: PLAN**	**Rover: br-1**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 23.82247" N
Longitude:	1° 59' 13.02625" E	1° 35' 57.68217" E
Ellip. Hgt:	319.9546 m	361.4636 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

Virtual_129 - br-1	**Reference: Virtual_129**	**Rover: br-1**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 23.82569" N
Longitude:	1° 36' 58.22255" E	1° 35' 57.68296" E
Ellip. Hgt:	291.8001 m	361.4310 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

BELL - br-3	**Reference: BELL**	**Rover: br-3**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 27.09386" N
Longitude:	1° 24' 04.09407" E	1° 36' 06.66197" E
Ellip. Hgt:	853.4072 m	359.6068 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-3	**Reference: PLAN**	**Rover: br-3**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 27.09409" N
Longitude:	1° 59' 13.02625" E	1° 36' 06.66229" E
Ellip. Hgt:	319.9546 m	359.8569 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

Virtual_129 - br-3	**Reference: Virtual_129**	**Rover: br-3**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 27.09686" N
Longitude:	1° 36' 58.22255" E	1° 36' 06.66203" E
Ellip. Hgt:	291.8001 m	359.7905 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

BELL - br-5	**Reference: BELL**	**Rover: br-5**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 25.40147" N
Longitude:	1° 24' 04.09407" E	1° 36' 31.74780" E
Ellip. Hgt:	853.4072 m	374.3556 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-5	**Reference: PLAN**	**Rover: br-5**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 25.40142" N
Longitude:	1° 59' 13.02625" E	1° 36' 31.74787" E
Ellip. Hgt:	319.9546 m	374.5689 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

Virtual_129 - br-5	**Reference: Virtual_129**	**Rover: br-5**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 25.40422" N
Longitude:	1° 36' 58.22255" E	1° 36' 31.74799" E
Ellip. Hgt:	291.8001 m	374.5573 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

Processing Summary
postSKY-021209

Project Information

Project name:	postSKY-021209
Date created:	12/18/2009 19:58:06
Time zone:	1h 00'
Coordinate system name:	WGS 1984
Application software:	Leica SKI-Pro 3.0
Start date and time:	12/02/2009 09:00:43
End date and time:	12/02/2009 14:19:27
Manually occupied points:	24
Processing kernel:	PSI-Pro 1.0
Processed:	01/09/2010 18:36:13

Processing Parameters

Parameters	**Selected**
Cut-off angle:	15°
Ephemeris type:	Broadcast
Solution type:	Automatic
Frequency:	Automatic
Fix ambiguities up to:	80 km
Min. duration for float solution (static):	5' 00"
Sampling rate:	Use all
Tropospheric model:	Hopfield
Ionospheric model:	Automatic
Use stochastic modelling:	Yes
Min. distance:	8 km
Ionospheric activity:	Automatic

Baseline Overview

BELL - br-5p	**Reference: BELL**	**Rover: br-5p**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 25.40201" N
Longitude:	1° 24' 04.09407" E	1° 36' 31.74579" E
Ellip. Hgt:	853.4072 m	374.5875 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-5p	**Reference: PLAN**	**Rover: br-5p**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 25.40271" N
Longitude:	1° 59' 13.02625" E	1° 36' 31.74627" E
Ellip. Hgt:	319.9546 m	374.5356 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

Virtual_128 - br-5p	**Reference: Virtual_128**	**Rover: br-5p**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 25.40383" N
Longitude:	1° 36' 58.22255" E	1° 36' 31.74664" E
Ellip. Hgt:	291.8001 m	374.5510 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

BELL - br-7	**Reference: BELL**	**Rover: br-7**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 23.41103" N
Longitude:	1° 24' 04.09407" E	1° 36' 47.34626" E
Ellip. Hgt:	853.4072 m	368.1813 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-7	**Reference: PLAN**	**Rover: br-7**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 23.41128" N
Longitude:	1° 59' 13.02625" E	1° 36' 47.34648" E
Ellip. Hgt:	319.9546 m	368.1568 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

Virtual_128 - br-7	**Reference: Virtual_128**	**Rover: br-7**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 23.41277" N
Longitude:	1° 36' 58.22255" E	1° 36' 47.34707" E
Ellip. Hgt:	291.8001 m	368.1179 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

BELL - br-9	**Reference: BELL**	**Rover: br-9**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 11.42161" N
Longitude:	1° 24' 04.09407" E	1° 37' 10.46659" E
Ellip. Hgt:	853.4072 m	355.9578 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	

PLAN - br-9	**Reference: PLAN**	**Rover: br-9**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 11.42155" N
Longitude:	1° 59' 13.02625" E	1° 37' 10.46688" E
Ellip. Hgt:	319.9546 m	355.9439 m

Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
Virtual_128 - br-9	**Reference: Virtual_128**	**Rover: br-9**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 11.42331" N
Longitude:	1° 36' 58.22255" E	1° 37' 10.46745" E
Ellip. Hgt:	291.8001 m	355.9123 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	
BELL - br-11	**Reference: BELL**	**Rover: br-11**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 07.24357" N
Longitude:	1° 24' 04.09407" E	1° 37' 44.50636" E
Ellip. Hgt:	853.4072 m	323.9397 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
PLAN - br-11	**Reference: PLAN**	**Rover: br-11**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 07.24361" N
Longitude:	1° 59' 13.02625" E	1° 37' 44.50661" E
Ellip. Hgt:	319.9546 m	323.9975 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
Virtual_128 - br-11	**Reference: Virtual_128**	**Rover: br-11**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 07.24530" N
Longitude:	1° 36' 58.22255" E	1° 37' 44.50716" E
Ellip. Hgt:	291.8001 m	323.9306 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	
BELL - br-6p	**Reference: BELL**	**Rover: br-6p**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 21.90709" N
Longitude:	1° 24' 04.09407" E	1° 36' 41.04820" E
Ellip. Hgt:	853.4072 m	370.4237 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
PLAN - br-6p	**Reference: PLAN**	**Rover: br-6p**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 21.90755" N
Longitude:	1° 59' 13.02625" E	1° 36' 41.04842" E
Ellip. Hgt:	319.9546 m	370.3985 m

Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
Virtual_128 - br-6p	**Reference: Virtual_128**	**Rover: br-6p**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 21.90836" N
Longitude:	1° 36' 58.22255" E	1° 36' 41.04951" E
Ellip. Hgt:	291.8001 m	370.3677 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	
BELL - br-8	**Reference: BELL**	**Rover: br-8**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 16.21187" N
Longitude:	1° 24' 04.09407" E	1° 36' 58.86095" E
Ellip. Hgt:	853.4072 m	361.7148 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
PLAN - br-8	**Reference: PLAN**	**Rover: br-8**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 16.21198" N
Longitude:	1° 59' 13.02625" E	1° 36' 58.86120" E
Ellip. Hgt:	319.9546 m	361.7041 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
Virtual_128 - br-8	**Reference: Virtual_128**	**Rover: br-8**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 16.21432" N
Longitude:	1° 36' 58.22255" E	1° 36' 58.86186" E
Ellip. Hgt:	291.8001 m	361.6738 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	
BELL - br-10	**Reference: BELL**	**Rover: br-10**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 09.13563" N
Longitude:	1° 24' 04.09407" E	1° 37' 29.69652" E
Ellip. Hgt:	853.4072 m	343.7909 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
PLAN - br-10	**Reference: PLAN**	**Rover: br-10**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 09.13556" N
Longitude:	1° 59' 13.02625" E	1° 37' 29.69669" E

Ellip. Hgt:	319.9546 m	343.7937 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
Virtual_128 - br-10	**Reference: Virtual_128**	**Rover: br-10**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 09.13803" N
Longitude:	1° 36' 58.22255" E	1° 37' 29.69758" E
Ellip. Hgt:	291.8001 m	343.7685 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	
BELL - br-12	**Reference: BELL**	**Rover: br-12**
Coordinates:		
Latitude:	41° 35' 58.61534" N	41° 23' 04.58522" N
Longitude:	1° 24' 04.09407" E	1° 37' 49.78645" E
Ellip. Hgt:	853.4072 m	320.6274 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
PLAN - br-12	**Reference: PLAN**	**Rover: br-12**
Coordinates:		
Latitude:	41° 25' 06.68955" N	41° 23' 04.58526" N
Longitude:	1° 59' 13.02625" E	1° 37' 49.78648" E
Ellip. Hgt:	319.9546 m	320.7033 m
Solution type:	Phase	
Frequency:	IonoFree (L3)	
Ambiguity:	Yes	
Virtual_128 - br-12	**Reference: Virtual_128**	**Rover: br-12**
Coordinates:		
Latitude:	41° 23' 13.24758" N	41° 23' 04.58699" N
Longitude:	1° 36' 58.22255" E	1° 37' 49.78634" E
Ellip. Hgt:	291.8001 m	320.6614 m
Solution type:	Phase	
Frequency:	L1 and L2	
Ambiguity:	Yes	

A2.4 RESEÑAS

PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº1

Núm. de base:	BR-1	Sist.Ref.	ETRS89	Sist.Ref.	ED50
Tipo de punto:	Base de Replanteo	Coord.	Geodésicas	Proyección:	UTM
		λ: E	**1 ° 35 ' 57,6824 ''**	Huso:	31
Hoja MTN (1:50,000)	419	**Φ: N**	**41 ° 23 ' 23,8238 ''**	Hemisferio:	Norte
Hoja MTC (1:5,000)	276 -126	**h:**	**361,393 m**	N:	49,425 m
		σ(λ):	0,0156 ''	**Este:**	**382993,404 m**
Municipio:	Sant Martí Sarroca	σ(Φ):	0,0227 ''	**Norte:**	**4583197,232 m**
Comarca:	Alt Penedès	σ(h):	0,0397 m	**H:**	**311,961 m**

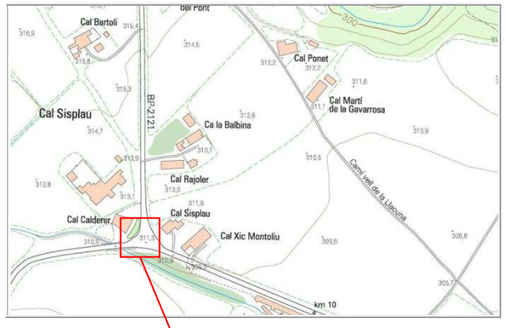
DESCRIPCIÓN:

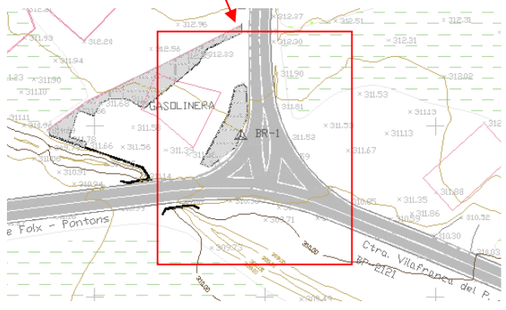
Clavo sobre el asfalto.

ACCESO:

Desde Sant Martí Sarroca, por la carretera BP-2121 dirección Torrelles de Foix, hasta llegar al enlace con la carretera BV-2122. En el recinto de la gasolinera, bordillo de la isleta en su parte exterior hacia el enlace.

CROQUIS SITUACIÓN:





PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº2

Núm. de base:	BR-2	Sist.Ref.	ETRS89	Sist.Ref.	ED50
Tipo de punto:	Base de Replanteo	Coord.	Geodésicas	Proyección:	UTM
		λ: E	**1 ° 35 ' 57,9496 ''**	Huso:	31
Hoja MTN (1:50,000)	419	**Φ: N**	**41 ° 23 ' 28,4441 ''**	Hemisferio:	Norte
Hoja MTC (1:5,000)	276 -126	**h:**	**364,062 m**	N:	49,427 m
		σ(λ):	0,0115 ''	**Este:**	**383001,910 m**
Municipio:	Sant Martí Sarroca	σ(Φ):	0,0146 ''	**Norte:**	**4583339,618 m**
Comarca:	Alt Penedès	σ(h):	0,0312 m	**H:**	**314,628 m**

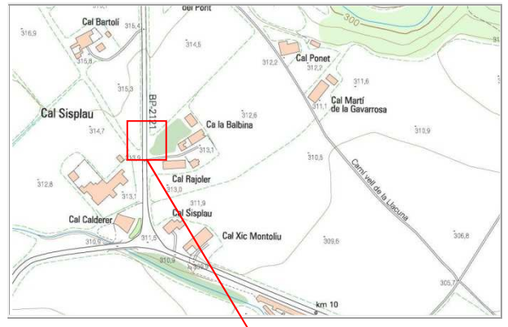
DESCRIPCIÓN:

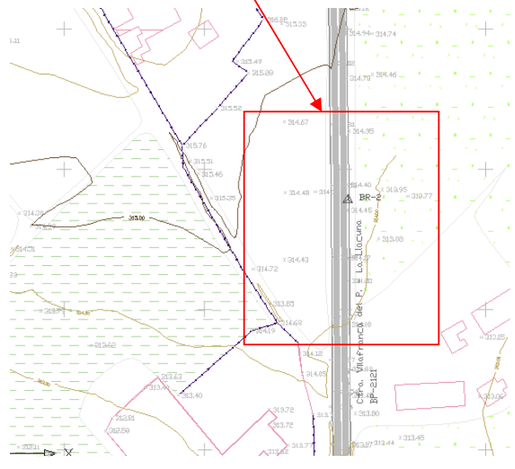
Estaca clavada sobre el terreno.

ACCESO:

Desde Sant Martí Sarroca, por la carretera BP-2121 dirección La Llacuna, a 150 metros de la gasolinera.

CROQUIS SITUACIÓN:





PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

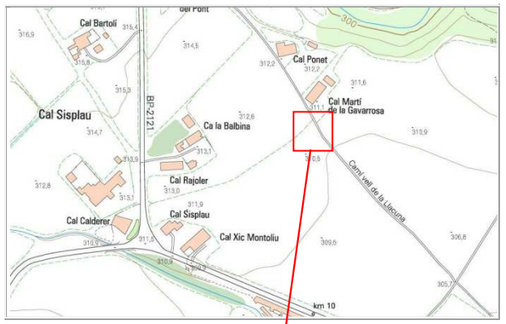
FICHA RESEÑA
BASE Nº3

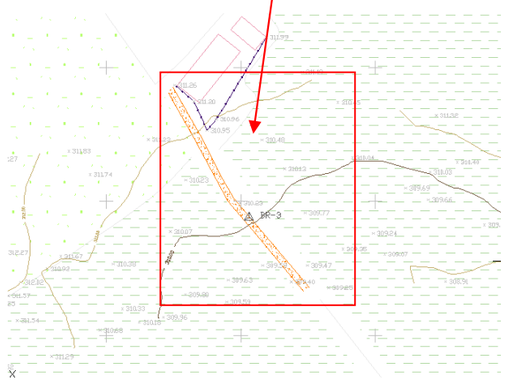
Núm. de base:	BR-3	Sist.Ref.	ETRS89	Sist.Ref.	ED50
Tipo de punto:	Base de Replanteo	Coord.	Geodésicas	Proyección:	UTM
		λ: E	**1 ° 36 ' 6,6619 ''**	Huso:	31
Hoja MTN (1:50,000)	419	**Φ: N**	**41 ° 23 ' 27,0948 ''**	Hemisferio:	Norte
Hoja MTC (1:5,000)	276 -126	**h:**	**359,748 m**	N:	49,423 m
		σ(λ):	0,0107 ''	**Este:**	**383203,571 m**
Municipio:	Sant Martí Sarroca	σ(Φ):	0,0135 ''	**Norte:**	**4583294,739 m**
Comarca:	Alt Penedès	σ(h):	0,0293 m	**H:**	**310,319 m**

DESCRIPCIÓN:

Estaca clavada sobre el terreno.

CROQUIS SITUACIÓN:





ACCESO:

Desde Sant Martí Sarroca, por la carretera BP-2121 dirección Torrelles de Foix, hasta llegar al desvio del "Camí vell de la Llacuna", junto a Cal Martí de la Gavarrosa.

PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº4

Núm. de base:	BR-4	Sist.Ref.	ETRS89	Sist.Ref.	ED50
Tipo de punto:	Base de Replanteo	Coord.	Geodésicas	Proyección:	UTM
		λ: E	**1 ° 35 ' 24,0123 ''**	Huso:	31
Hoja MTN (1:50,000)	419	**Φ: N**	**41 ° 23 ' 28,2384 ''**	Hemisferio:	Norte
Hoja MTC (1:5,000)	276 -126	**h:**	**375,860 m**	N:	49,416 m
		σ(λ):	0,0090 ''	**Este:**	**383607,081 m**
Municipio:	Sant Martí Sarroca	σ(Φ):	0,0196 ''	**Norte:**	**4583323,519 m**
Comarca:	Alt Penedès	σ(h):	0,0383 m	**H:**	**326,437 m**

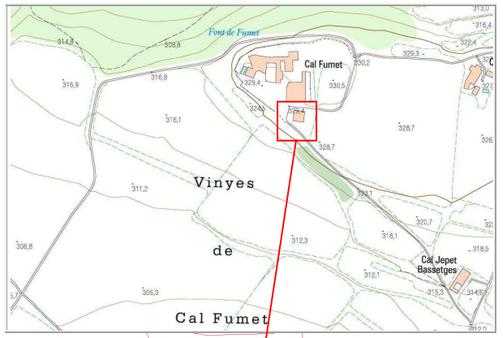
DESCRIPCIÓN:

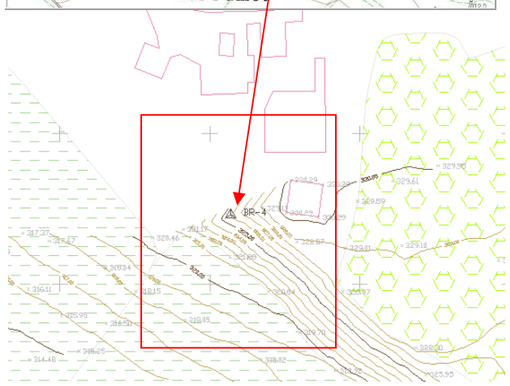
Estaca clavada sobre el terreno.

ACCESO:

En la parte posterior de Cal Fumet, a 2 metros del muro, sobre el talud.

CROQUIS SITUACIÓN:





PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº5

Núm. de base:	BR-5
Tipo de punto:	Base de Replanteo
Hoja MTN (1:50,000)	419
Hoja MTC (1:5,000)	276 -126
Municipio:	Sant Martí Sarroca
Comarca:	Alt Penedès

Sist.Ref.	ETRS89
Coord.	Geodésicas
λ: E	**1 ° 36 ' 31,7463 ''**
Φ: N	**41 ° 23 ' 25,4033 ''**
h:	**374,549 m**
σ(λ):	0,0107 ''
σ(Φ):	0,0175 ''
σ(h):	0,0346 m

Sist.Ref.	ED50
Proyección:	UTM
Huso:	31
Hemisferio:	Norte
N:	49,411 m
Este:	**383785,306 m**
Norte:	**4583233,188 m**
H:	**325,112 m**

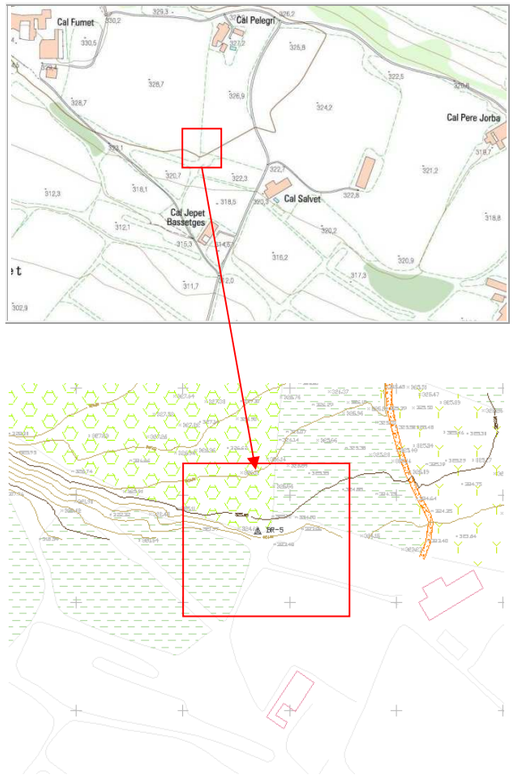
DESCRIPCIÓN:

Estaca clavada sobre el terreno.

ACCESO:

Desde el final de la calle Rei Joan Carles I (dirección Torrellas), por el camino que sube hacia la derecha hasta Cal Salvet. Junto a una caseta en ruinas y un poste.

CROQUIS SITUACIÓN:



PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº6

Núm. de base:	BR-6
Tipo de punto:	Base de Replanteo
Hoja MTN (1:50,000)	419
Hoja MTC (1:5,000)	276 -126
Municipio:	Sant Martí Sarroca
Comarca:	Alt Penedès

Sist.Ref.	ETRS89
Coord.	Geodésicas
λ: E	**1 ° 36 ' 41,0491 ''**
Φ: N	**41 ° 23 ' 21,9077 ''**
h:	**370,386 m**
σ(λ):	0,0059 ''
σ(Φ):	0,0074 ''
σ(h):	0,0192 m

Sist.Ref.	ED50
Proyección:	UTM
Huso:	31
Hemisferio:	Norte
N:	49,406 m
Este:	**383999,612 m**
Norte:	**4583121,929 m**
H:	**320,959 m**

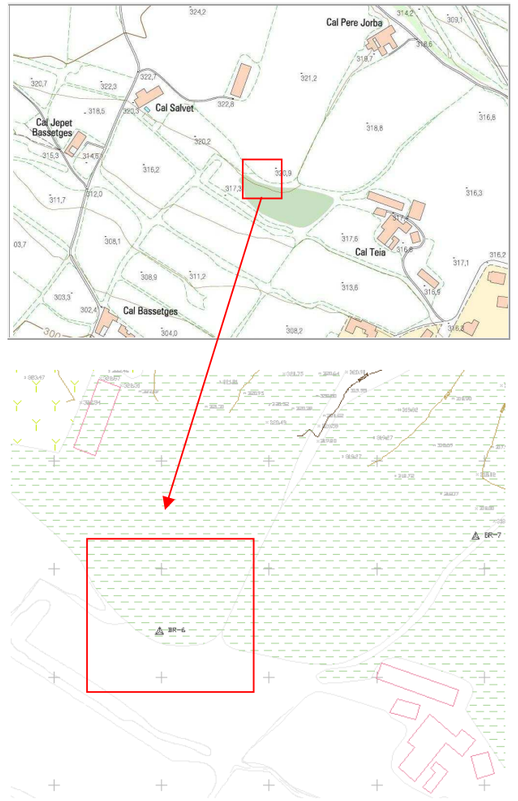
DESCRIPCIÓN:

Estaca clavada sobre el terreno.

ACCESO:

Entre Cal Salvet y Cal Teia.

CROQUIS SITUACIÓN:



PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº7

Núm. de base:	BR-7
Tipo de punto:	Base de Replanteo
Hoja MTN (1:50,000)	419
Hoja MTC (1:5,000)	276 -126
Municipio:	Sant Martí Sarroca
Comarca:	Alt Penedès

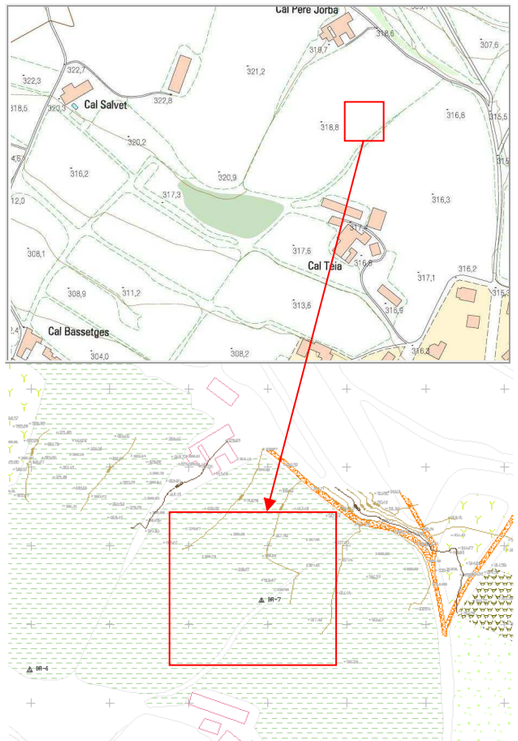
Sist.Ref.	ETRS89
Coord.	Geodésicas
λ: E	**1 ° 36 ' 47,3467 ''**
Φ: N	**41 ° 23 ' 23,4120 ''**
h:	**368,144 m**
σ(λ):	0,0049 ''
σ(Φ):	0,0064 ''
σ(h):	0,0154 m

Sist.Ref.	ED50
Proyección:	UTM
Huso:	31
Hemisferio:	Norte
N:	49,404 m
Este:	**384146,611 m**
Norte:	**4583165,987 m**
H:	**318,733 m**

DESCRIPCIÓN:

Estaca clavada sobre el terreno.

CROQUIS SITUACIÓN:



ACCESO:

En el limite de parcela de Cal Pere Jorba.

PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº8

Núm. de base:	BR-8
Tipo de punto:	Base de Replanteo
Hoja MTN (1:50,000)	419
Hoja MTC (1:5,000)	276 -126
Municipio:	Sant Martí Sarroca
Comarca:	Alt Penedès

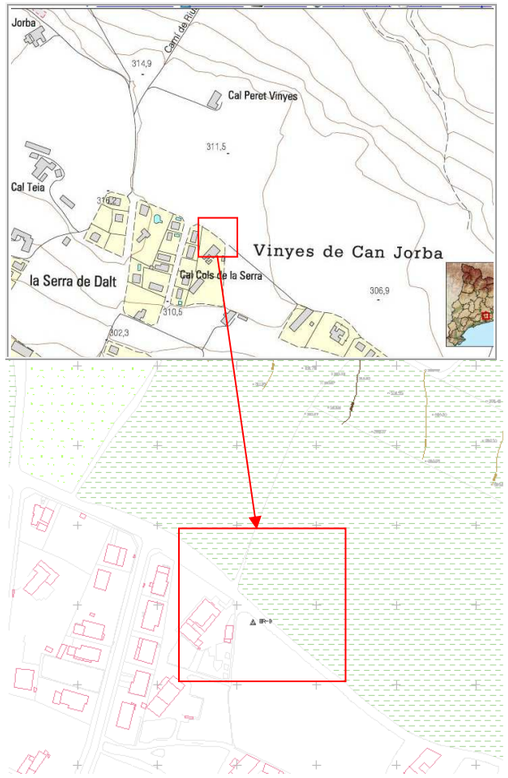
Sist.Ref.	ETRS89
Coord.	Geodésicas
λ: E	**1 ° 35 ' 58,8616 ''**
Φ: N	**41 ° 23 ' 16,2135 ''**
h:	**361,687 m**
σ(λ):	0,0053 ''
σ(Φ):	0,0078 ''
σ(h):	0,0145 m

Sist.Ref.	ED50
Proyección:	UTM
Huso:	31
Hemisferio:	Norte
N:	49,396 m
Este:	**384410,493 m**
Norte:	**4582939,718 m**
H:	**312,284 m**

DESCRIPCIÓN:

Estaca clavada sobre el terreno.

CROQUIS SITUACIÓN:



ACCESO:

Desde el final de la calle Salvador Espriu, a 75 metros aprox. tomando el camino hacia la derecha.

PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

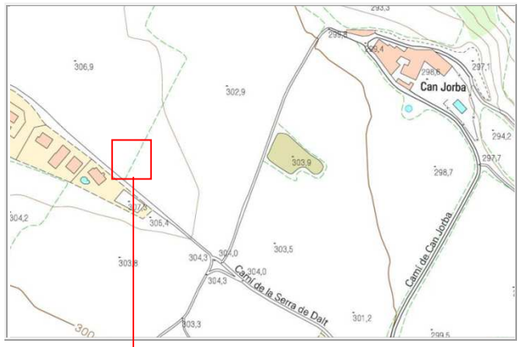
FICHA RESEÑA
BASE Nº9

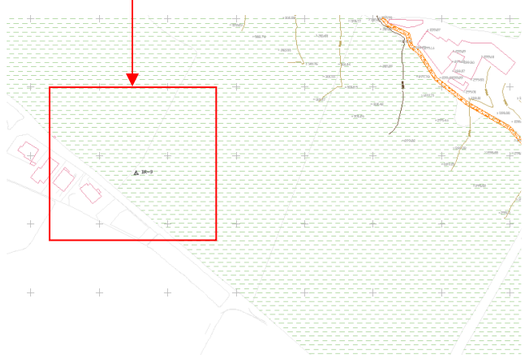
Núm. de base:	BR-9	Sist.Ref.	ETRS89	Sist.Ref.	ED50
Tipo de punto:	Base de Replanteo	Coord.	Geodésicas	Proyección:	UTM
		λ: E	**1 ° 37 ' 10,4673 ''**	Huso:	31
Hoja MTN (1:50,000)	419	**Φ: N**	**41 ° 23 ' 11,4226 ''**	Hemisferio:	Norte
Hoja MTC (1:5,000)	276 -126	**h:**	**355,925 m**	N:	49,389 m
		σ(λ):	0,0047 ''	**Este:**	**384677,680 m**
Municipio:	Sant Martí Sarroca	σ(Φ):	0,0081 ''	**Norte:**	**4582787,673 m**
Comarca:	Alt Penedès	σ(h):	0,0131 m	**H:**	**306,529 m**

DESCRIPCIÓN:

Estaca clavada sobre el terreno.

CROQUIS SITUACIÓN:





ACCESO:

Des del Camí de la Serra de Dalt, frente a la última vivienda del camino. Se ubica a unos pocos metros del camino en la separación de parcelas

PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

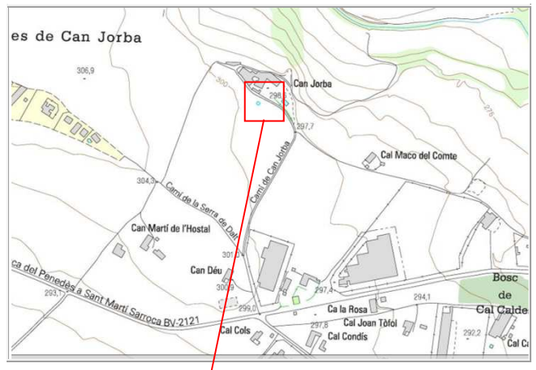
FICHA RESEÑA
BASE Nº10

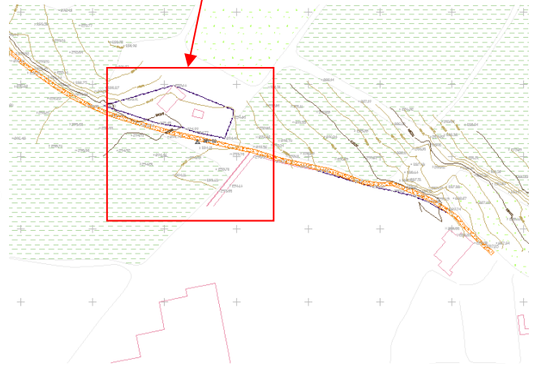
Núm. de base:	BR-10	Sist.Ref.	ETRS89	Sist.Ref.	ED50
Tipo de punto:	Base de Replanteo	Coord.	Geodésicas	Proyección:	UTM
		λ: E	**1 ° 37 ' 29,6973 ''**	Huso:	31
Hoja MTN (1:50,000)	419	**Φ: N**	**41 ° 23 ' 9,1372 ''**	Hemisferio:	Norte
Hoja MTC (1:5,000)	276 -126	**h:**	**343,784 m**	N:	49,380 m
		σ(λ):	0,0046 ''	**Este:**	**385123,187 m**
Municipio:	Sant Martí Sarroca	σ(Φ):	0,0067 ''	**Norte:**	**4582710,094 m**
Comarca:	Alt Penedès	σ(h):	0,0136 m	**H:**	**294,397 m**

DESCRIPCIÓN:

Estaca clavada sobre el terreno.

CROQUIS SITUACIÓN:





ACCESO:

En la entrada de Can Jorba, frente al pino, al otro lado del camino.

PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº11

Núm. de base:	BR-11
Tipo de punto:	Base de Replanteo
Hoja MTN (1:50,000)	419
Hoja MTC (1:5,000)	276 -126
Municipio:	Sant Martí Sarroca
Comarca:	Alt Penedès

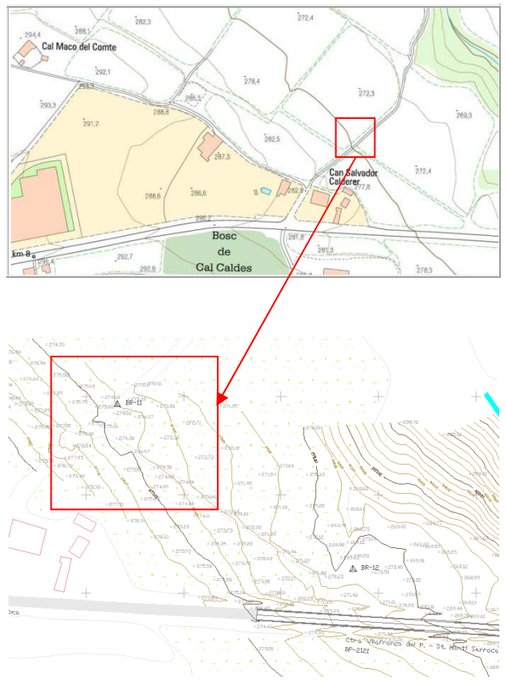
Sist.Ref.	ETRS89
Coord.	Geodésicas
λ: E	**1 ° 37 ' 44,5068 ''**
Φ: N	**41 ° 23 ' 7,2445 ''**
h:	**323,944 m**
σ(λ):	0,0050 ''
σ(Φ):	0,0060 ''
σ(h):	0,0142 m

Sist.Ref.	ED50
Proyección:	UTM
Huso:	31
Hemisferio:	Norte
N:	49,374 m
Este:	**385466,224 m**
Norte:	**4582646,278 m**
H:	**274,565 m**

DESCRIPCIÓN:

Estaca clavada sobre el terreno.

CROQUIS SITUACIÓN:



ACCESO:

Desde la Carretera BP-2121, dirección Sant Martí Sarroca, se accede al camino que llega a Can Salvador Calderer. Se continua por el camino, hasta la división de parcelas, se ubica a unos 15 metros de la intersección.

PROYECTO FINAL DE CARRERA:
PROYECTO DE LA VARIANTE DE SANT MARTÍ SARROCA (BARCELONA)

FICHA RESEÑA
BASE Nº12

Núm. de base:	BR-12
Tipo de punto:	Base de Replanteo
Hoja MTN (1:50,000)	419
Hoja MTC (1:5,000)	276 -126
Municipio:	Sant Martí Sarroca
Comarca:	Alt Penedés

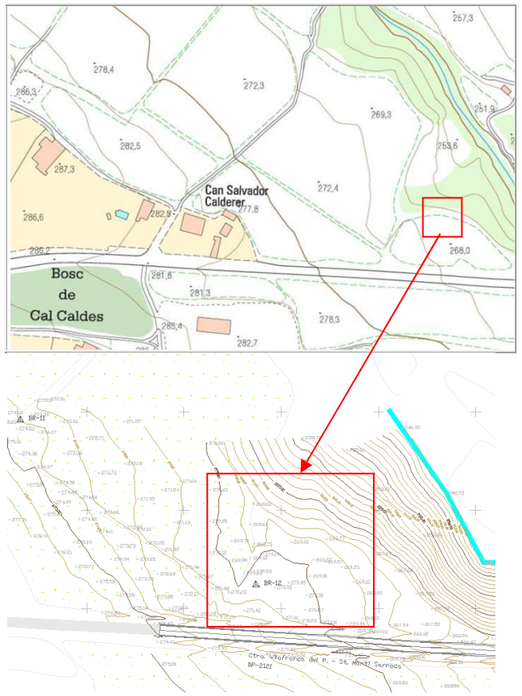
Sist.Ref.	ETRS89
Coord.	Geodésicas
λ: E	**1 ° 37 ' 49,7861 ''**
Φ: N	**41 ° 23 ' 4,5863 ''**
h:	**320,665 m**
σ(λ):	0,0083 ''
σ(Φ):	0,0086 ''
σ(h):	0,0207 m

Sist.Ref.	ED50
Proyección:	UTM
Huso:	31
Hemisferio:	Norte
N:	49,370 m
Este:	**385587,544 m**
Norte:	**4582562,363 m**
H:	**271,289 m**

DESCRIPCIÓN:

Estaca clavada sobre el terreno.

CROQUIS SITUACIÓN:



ACCESO:

Desde la Carretera BP-2121, dirección Sant Martí Sarroca, se accede al camino que llega a Can Salvador Calderer. Se cruza (dirección Vilafranca) toda la parcela de viñas hasta llegar a un claro donde hay un recinto vallado.

A3 LISTADOS

A3.1 LEVANTAMIENTO TOPOGRÁFICO

En el siguiente listado se muestran diferentes columnas con información de:

- Número de punto
- Coordenada X (en metros)
- Coordenada Y (en metros)
- Coordenada Z (en metros)
- Código
  - r: relleno
  - pt: pie de talud
  - ct: cabeza de talud
  - puente: puente
  - arcén: arcén
  - far: farola
  - tapa: tapa de servicios
  - bor: bordillo
  - muro: muro
  - qita mied: quita miedo
  - cam: camino
  - entrada: entrada
  - pt-ct: pie-cabeza de talud
  - mel: campo de melocotoneros
  - vinyes: campo de viñas
  - limit finca: límite de finca
  - olivos: campo de olivos
  - edif: edificación
  - prado: prado
  - almendros: campo de almendros
  - valla: valla
  - carret: carretera existente
  - eje: eje de carretera existente
  - acera: acera

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6,385535.361,4582555.913,273.077,r
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1551,383311.947,4583327.054,312.250,r
1552,383404.924,4583273.739,310.912,r
1553,383515.548,4583315.872,316.289,r
1554,383729.532,4583229.110,320.639,r
1555,384264.865,4583217.995,312.914,r
1556,385646.903,4582610.682,258.207,r
1557,385673.574,4582587.282,256.833,r
1558,385633.874,4582630.624,255.610,r
1559,383048.623,4583290.187,313.151,r
1560,383108.330,4583315.970,312.266,r
1561,383453.047,4583319.964,315.357,r
1562,383504.611,4583319.525,316.617,r
1563,383511.940,4583278.973,313.555,r
1564,384900.528,4582793.652,299.150,r
1565,384942.109,4582758.278,298.105,r
1566,385263.883,4582732.816,284.322,e
1567,385364.822,4582698.778,277.728,r
```

A3.2 LISTADO DE ALINEACIONES EN PLANTA

En el siguiente listado se muestra información sobre cada tipo de alineación así como su ubicación y definición:

- Alineación:
  - Circular
  - Recta
  - Clotoide
- Pk: punto kilométrico en el que comienza la alineación en metros.
- COORD X (m): Coordenada X, en metros, en la que comienza la alineación.
- COORD Y(m): coordenada Y, en metros, en la que comienza la alineación.
- ACIMUT (gon): Acimut, medido en grados centesimales, formado por la dirección del norte (Y) y el vector tangente en la alineación y en el sentido del avance del eje.
- RADIO (m): radio de la alineación en metros.
- PARÁMETRO: solo se muestra si la alineación es una clotoide.

TRONCO

ALINEACIÓN	PK	COORD X (m)	COORD Y (m)	ACIMUT (gon)	RADIO (m)	PARÁMETRO
CIRCULAR	0,000	385.606,456	4.582.553,195	390,9139	-40,000	0,000
CIRCULAR	16,200	385.601,011	4.582.568,335	365,1308	-40,000	0,000
CLOTOIDE	71,425	385.555,260	4.582.597,142	321,1842	0,000	47,000
RECTA	208,785	385.425,436	4.582.642,011	321,1842	0,000	0,000
CLOTOIDE	313,709	385.325,642	4.582.674,368	317,5140	-910,000	309,000
CIRCULAR	357,235	385.283,485	4.582.685,186	314,4690	-910,000	0,000
CLOTOIDE	384,901	385.256,427	4.582.690,945	312,0809	-620,000	232,000
CIRCULAR	400,841	385.240,736	4.582.693,750	310,4441	-620,000	0,000
CLOTOIDE	487,654	385.154,539	4.582.703,915	305,9871	0,000	232,000
RECTA	489,269	385.152,931	4.582.704,066	305,9871	0,000	0,000
CLOTOIDE	537,279	385.105,726	4.582.712,180	320,5413	105,000	71,000
CIRCULAR	539,601	385.103,532	4.582.712,941	321,9492	105,000	0,000
CLOTOIDE	587,610	385.061,434	4.582.735,787	336,5034	0,000	71,000
RECTA	1.092,721	384.637,108	4.583.009,803	336,5034	0,000	0,000
CLOTOIDE	1.190,721	384.553,727	4.583.061,266	332,6041	-800,000	280,000
CIRCULAR	1.284,393	384.469,575	4.583.102,290	325,1499	-800,000	0,000
CLOTOIDE	1.382,393	384.377,675	4.583.136,277	321,2506	0,000	280,000
RECTA	1.725,858	384.053,168	4.583.248,809	321,2506	0,000	0,000
CLOTOIDE	1.788,578	383.992,983	4.583.266,216	311,2684	-200,000	112,000
CIRCULAR	1.848,591	383.933,217	4.583.267,829	292,1657	-200,000	0,000
CLOTOIDE	1.911,311	383.872,181	4.583.253,692	282,1835	0,000	112,000
CLOTOIDE	1.975,640	383.809,549	4.583.239,364	292,6841	195,000	112,000
CIRCULAR	2.057,639	383.728,522	4.583.247,112	319,4545	195,000	0,000
CLOTOIDE	2.132,807	383.660,438	4.583.278,676	331,7248	0,000	121,070
RECTA	2.143,151	383.651,352	4.583.283,620	331,7248	0,000	0,000
CLOTOIDE	2.193,561	383.605,338	4.583.303,858	315,6788	-100,000	71,000
CIRCULAR	2.196,464	383.602,513	4.583.304,525	313,8306	-100,000	0,000
CLOTOIDE	2.246,874	383.552,306	4.583.306,995	297,7846	0,000	71,000
RECTA	2.449,979	383.349,324	4.583.299,929	297,7846	0,000	0,000
CLOTOIDE	2.540,808	383.258,801	4.583.293,208	290,2751	-385,000	187,000
CIRCULAR	2.623,094	383.179,424	4.583.272,124	276,6687	-385,000	0,000
CLOTOIDE	2.713,923	383.097,497	4.583.233,039	269,1591	0,000	187,000
RECTA	2.788,923	383.031,127	4.583.198,110	269,1591	0,000	0,000

ROTONDA 1

ALINEACIÓN	PK	COORD X (m)	COORD Y (m)	ACIMUT (gon)	RADIO (m)	PARÁMETRO
CIRCULAR	0,000	385.613,768	4.582.521,094	272,677	15,000	0,000
CIRCULAR	59,999	385.613,768	4.582.548,373	127,322	15,000	0,000
	94,248	385.613,768	4.582.521,094	272,677	15,000	0,000

ROTONDA 2

ALINEACIÓN	PK	COORD X (m)	COORD Y(m)	ACIMUT (gon)	RADIO	PARÁMETRO
CIRCULAR	0,000	383.017,498	4.583.202,679	110,2628	17,000	0,000
	71,898	382.998,642	4.583.180,522	379,5089	17,000	0,000
	106,814	383.017,498	4.583.202,679	110,2628	17,000	0,000

EJE 1

ALINEACIÓN	PK	COORD X (m)	COORD Y (m)	ACIMUT (gon)	RADIO (m)	PARÁMETRO
RECTA	0,000	385.721,016	4.582.527,835	303,8834	0,000	0,000
	95,206	385.625,987	4.582.533,639	303,8834	0,000	0,000

EJE 2

ALINEACIÓN	PK	COORD X (m)	COORD Y (m)	ACIMUT (gon)	RADIO (m)	PARÁMETRO
RECTA	0,000	385.589,053	4.582.535,750	303,8163	0,000	0,000
	53,112	385.536,036	4.582.538,932	303,8163	0,000	0,000

EJE 3

ALINEACIÓN	PK	COORD X (m)	COORD Y (m)	ACIMUT (gon)	RADIO (m)	PARÁMETRO
RECTA	0,000	383.029,870	4.583.172,048	125,2885	0,000	0,000
	100,833	383.122,852	4.583.133,039	125,2885	0,000	0,000

EJE 4

ALINEACIÓN	PK	COORD X (m)	COORD Y (m)	ACIMUT (gon)	RADIO (m)	PARÁMETRO
RECTA	0,000	382.997,889	4.583.183,763	292,5224	0,000	0,000
	70,093	382.928,279	4.583.175,549	292,5224	0,000	0,000

EJE 5

ALINEACIÓN	PK	COORD X (m)	COORD Y (m)	ACIMUT (gon)	RADIO (m)	PARÁMETRO
RECTA	0,000	382.998,607	4.583.286,311	198,2386	0,000	0,000
CLOTOIDE	62,720	383.003,609	4.583.223,860	188,2564	-200,000	112,000
CIRCULAR	82,220	383.008,114	4.583.204,895	182,0494	-200,000	0,000

A3.3LISTADO DE PUNTOS SINGULARES

Se presenta los siguientes datos para cada punto singular:

- Pk: punto kilométrico: pk del eje en planta.
- Longitud: longitud del elemento anterior al punto singular en metros.
- Coord. X: coordenada X del punto singular en metros.
- Coord. Y: coordenada Y del punto singular en metros.
- Acimut: ángulo medido en grados centesimales, formado por la dirección del Norte y el vector
- tangente en el punto singular y en sentido del avance del eje.
- Radio: radio instantáneo del punto singular
- Parámetro: sólo se muestra cuando el punto singular es el final del desarrollo de una clotoide.
- X Centro: coordenada X del centro del círculo de la alineación que contiene al punto singular.
- Y Centro: coordenada Y del centro del círculo de la alineación que contiene al punto singular.

Estación	Longitud	Coord. X	Coord. Y	Acimut	Radio	Param.	X Centro	Y Centro
0+000,000	0,000	385.606,456	4.582.553,195	390,9139	-40,000		385.566,863	4.582.547,506
0+016,200	16,200	385.601,011	4.582.568,335	365,1308	-40,000		385.566,863	4.582.547,506
0+071,425	55,225	385.555,260	4.582.597,142	321,1842	infinito	47,000		
0+208,784	137,360	385.425,436	4.582.642,011	321,1842	infinito			
0+313,708	104,924	385.325,642	4.582.674,368	317,5140	-910,000	309,000	385.078,438	4.581.798,588
0+357,235	43,526	385.283,485	4.582.685,186	314,4690	-910,000		385.078,438	4.581.798,588
0+384,900	27,666	385.256,427	4.582.690,945	312,0809	-620,000	232,000	385.139,477	4.582.082,075
0+400,841	15,941	385.240,736	4.582.693,750	310,4441	-620,000		385.139,477	4.582.082,075
0+487,654	86,813	385.154,539	4.582.703,915	305,9871	infinito	232,000		
0+489,269	1,615	385.152,931	4.582.704,066	305,9871	infinito			
0+537,278	48,010	385.105,726	4.582.712,180	320,5413	105,000	71,000	385.139,020	4.582.811,762
0+539,600	2,322	385.103,532	4.582.712,941	321,9492	105,000		385.139,020	4.582.811,762
0+587,610	48,010	385.061,434	4.582.735,787	336,5034	infinito	71,000		
1+092,721	505,111	384.637,108	4.583.009,803	336,5034	infinito			
1+190,721	98,000	384.553,727	4.583.061,266	332,6041	-800,000	280,000	384.161,689	4.582.363,909
1+284,393	93,672	384.469,575	4.583.102,290	325,1499	-800,000		384.161,689	4.582.363,909
1+382,393	98,000	384.377,675	4.583.136,277	321,2506	infinito	280,000		
1+725,858	343,465	384.053,168	4.583.248,809	321,2506	infinito			
1+788,578	62,720	383.992,983	4.583.266,216	311,2684	-200,000	112,000	383.957,767	4.583.069,341
1+848,591	60,013	383.933,217	4.583.267,829	292,1657	-200,000		383.957,767	4.583.069,341
1+911,311	62,720	383.872,181	4.583.253,692	282,1835	infinito	112,000		
1+975,639	64,328	383.809,549	4.583.239,364	292,6841	195,000	112,000		4.583.433,078
2+057,638	81,999	383.728,522	4.583.247,112	319,4545	195,000		383.787,189	4.583.433,078
2+132,807	75,169	383.660,438	4.583.278,676	331,7248	infinito	121,070	383.787,189	
2+143,151	10,344	383.651,352	4.583.283,620	331,7248	infinito			
2+193,561	50,410	383.605,338	4.583.303,858	315,6788	-100,000	71,000	383.580,958	4.583.206,875
2+196,464	2,903	383.602,513	4.583.304,525	313,8306	-100,000		383.580,958	4.583.206,875
2+246,874	50,410	383.552,306	4.583.306,995	297,7846	infinito	71,000		
2+449,979	203,105	383.349,324	4.583.299,929	297,7846	infinito			
2+540,808	90,829	383.258,801	4.583.293,208	290,2751	-385,000	187,000	383.317,384	4.582.912,691
2+623,094	82,286	383.179,424	4.583.272,124	276,6687	-385,000		383.317,384	4.582.912,691
2+713,922	90,829	383.097,497	4.583.233,039	269,1591	infinito	187,000		
2+788,922	75,000	383.031,127	4.583.198,110	269,1591	infinito			

ROTONDA 1

Estación	Longitud	Coord. X	Coord. Y	Acimut	Radio	Param.	X Centro	Y Centro
0+000,000	0,000	385.613,768	4.582.521,094	272,6770	15,000		385.607,526	4.582.534,734
0+059,999	59,999	385.613,768	4.582.548,373	127,3216	15,000		385.607,526	4.582.534,734
0+059,999	0,000	385.613,768	4.582.548,373	127,3216	infinito			
0+094,247	32,249	385.613,768	4.582.521,094	272,6770	15,000		385.607,526	4.582.534,734

ROTONDA 2

Estación	Longitud	Coord. X	Coord. Y	Acimut	Radio	Param.	X Centro	Y Centro
0+000,000	0,000	383.017,498	4.583.202,679	110,2628	17,000		383.014,769	4.583.185,899
0+071,898	71,898	382.998,642	4.583.180,522	379,5089	17,000		383.014,769	4.583.185,899
0+071,898	0,000	382.998,642	4.583.180,522	379,5089	infinito			
0+106,814	34,916	383.017,498	4.583.202,679	110,2628	17,000		383.014,769	4.583.185,899

EJE 1

Estación	Longitud	Coord. X	Coord. Y	Acimut	Radio	Param.	X Centro	Y Centro
0+000,000	0,000	385.721,016	4.582.527,835	303,8834	infinito			
0+095,206	95,206	385.625,987	4.582.533,639	303,8834	infinito			

EJE 2

Estación	Longitud	Coord. X	Coord. Y	Acimut	Radio	Param.	X Centro	Y Centro
0+000,000	0,000	385.589,053	4.582.535,750	303,8163	infinito			
0+053,112	53,112	385.536,036	4.582.538,932	303,8163	infinito			

EJE 3

Estación	Longitud	Coord. X	Coord. Y	Acimut	Radio	Param.	X Centro	Y Centro
0+000,000	0,000	383.029,870	4.583.172,048	125,2885	infinito			
0+100,833	100,833	383.122,852	4.583.133,039	125,2885	infinito			

EJE 4

Estación	Longitud	Coord. X	Coord. Y	Acimut	Radio	Param.	X Centro	Y Centro
0+000,000	0,000	382.997,889	4.583.183,763	292,5224	infinito			
0+070,092	70,093	382.928,279	4.583.175,549	292,5224	infinito			

EJE 5

Estación	Longitud	Coord. X	Coord. Y	Acimut	Radio	Param.	X Centro	Y Centro
0+000,000	0,000	382.998,607	4.583.286,311	198,2386	infinito			
0+000,000	0,000	382.998,607	4.583.286,311	198,2386	infinito -			
0+062,720	62,720	383.003,609	4.583.223,860	188,2564	200,000	112,000		
0+082,220	19,500	383.008,114	4.583.204,895	182,0494	-200,000		383.200,216	4.583.260,544
							383.200,216	4.583.260,544

A3.4 LISTADO DE SECCIONES TRANSVERSALES

En el siguiente listado se muestran los datos de:

- Estación: Pk en metros de la estación.
- Rasante: Cota de la rasante en el Pk, en metros.
- Pie I: Cota del pie izquierdo del talud, en metros.
- Eje: Cota en metros del eje de la carretera.
- Pie D: Cota en metros del pie de talud derecho.
- C.R.I: Cota roja en pie de talud izquierdo, en metros.
- C.R.Eje:Cota roja en eje, en metros.
- C.R.D: Cota roja en pie de talud derecho, en metros.

TRONCO

Estación	Rasante	Pie I.	Eje	Pie D.	C.R.I.	C.R.Eje	C.R.D.
0+000	270,933	270,693	270,449	269,779	0,240	0,484	1,154
0+020	270,124	270,093	270,148	269,685	0,031	-0,024	0,439
0+040	269,853	268,946	268,913	268,237	0,907	0,940	1,616
0+060	270,154	270,103	270,110	269,590	0,051	0,044	0,564
0+080	271,026	271,195	271,170	270,600	-0,169	-0,144	0,426
0+100	272,160	271,639	271,718	271,252	0,521	0,442	0,908
0+120	273,295	272,546	272,665	272,155	0,749	0,630	1,140
0+140	274,429	273,652	273,677	273,043	0,777	0,752	1,386
0+160	275,564	274,702	274,740	274,129	0,862	0,824	1,435
0+180	276,698	276,014	275,673	274,700	0,684	1,025	1,998
0+200	277,833	277,869	276,854	275,851	-0,036	0,979	1,982
0+220	278,966	278,702	278,207	276,554	0,264	0,759	2,412
0+240	280,078	279,986	279,260	277,803	0,092	0,818	2,275
0+260	281,163	281,096	280,342	279,253	0,067	0,821	1,910
0+280	282,221	282,875	282,114	279,319	-0,654	0,107	2,902
0+300	283,251	285,207	284,503	282,256	-1,956	-1,252	0,995
0+320	284,253	286,980	286,217	284,740	-2,727	-1,964	-0,487
0+340	285,228	288,537	287,538	286,214	-3,309	-2,310	-0,986
0+360	286,176	289,704	287,148	286,265	-3,528	-0,972	-0,089
0+380	287,096	289,764	289,191	287,819	-2,668	-2,095	-0,723
0+400	287,988	290,435	290,106	289,001	-2,447	-2,118	-1,013
0+420	288,853	291,204	291,160	290,337	-2,351	-2,307	-1,484
0+440	289,690	291,922	292,099	291,287	-2,232	-2,409	-1,597
0+460	290,500	292,909	293,044	292,256	-2,409	-2,544	-1,756
0+480	291,283	293,290	293,383	292,886	-2,007	-2,100	-1,603
0+500	292,038	293,700	294,000	293,710	-1,662	-1,962	-1,672
0+520	292,765	293,700	294,000	293,700	-0,935	-1,235	-0,935
0+540	293,465	294,324	294,863	294,700	-0,859	-1,398	-1,235
0+560	294,137	294,662	295,000	294,446	-0,525	-0,863	-0,309
0+580	294,782	294,735	294,865	293,638	0,047	-0,083	1,144
0+600	295,400	294,740	293,779	292,015	0,660	1,621	3,385
0+620	295,990	295,136	292,957	292,204	0,854	3,033	3,786
0+640	296,552	295,640	293,852	292,918	0,912	2,700	3,634
0+660	297,087	295,819	294,834	293,645	1,268	2,253	3,442
0+680	297,594	296,793	297,014	294,563	0,801	0,580	3,031
0+700	298,074	297,729	298,012	297,258	0,345	0,062	0,816
0+720	298,528	297,898	298,152	297,805	0,630	0,376	0,723
0+740	298,975	298,123	298,342	297,958	0,852	0,633	1,017
0+760	299,422	298,775	299,044	298,712	0,647	0,378	0,710
0+780	299,869	299,327	299,621	299,316	0,542	0,248	0,553
0+800	300,316	299,560	299,824	299,489	0,756	0,492	0,827
0+820	300,762	299,810	300,067	299,723	0,952	0,695	1,039
0+840	301,209	300,016	300,249	299,880	1,193	0,960	1,329
0+860	301,656	300,586	300,763	300,333	1,070	0,893	1,323
0+880	302,103	301,204	301,385	300,959	0,899	0,718	1,144
0+900	302,550	301,651	301,861	301,467	0,899	0,689	1,083
0+920	302,997	302,125	302,360	301,992	0,872	0,637	1,005
0+940	303,444	302,620	302,860	302,499	0,824	0,584	0,945
0+960	303,891	303,080	303,324	302,968	0,811	0,567	0,923
0+980	304,338	303,375	303,599	303,221	0,963	0,739	1,117
1+000	304,785	303,793	304,026	303,658	0,992	0,759	1,127
1+020	305,232	304,236	304,489	304,141	0,996	0,743	1,091
1+040	305,678	304,556	304,821	304,487	1,122	0,857	1,191
1+060	306,125	305,093	305,369	305,046	1,032	0,756	1,079
1+080	306,572	305,592	305,888	305,584	0,980	0,684	0,988
1+100	307,019	305,808	306,080	305,752	1,211	0,939	1,267

1+120	307,466	306,332	306,612	306,291	1,134	0,854	1,175
1+140	307,913	306,841	307,108	306,773	1,072	0,805	1,140
1+160	308,360	307,358	307,615	307,268	1,002	0,745	1,092
1+180	308,807	307,835	308,099	307,759	0,972	0,708	1,048
1+200	309,254	308,265	308,536	308,204	0,989	0,718	1,050
1+220	309,701	308,584	308,842	308,495	1,117	0,859	1,206
1+240	310,148	308,938	309,177	308,808	1,210	0,971	1,340
1+260	310,594	309,337	309,589	309,235	1,257	1,005	1,359
1+280	311,041	309,735	310,024	309,713	1,306	1,017	1,328
1+300	311,488	310,078	310,383	310,089	1,410	1,105	1,399
1+320	311,935	310,521	310,826	310,531	1,414	1,109	1,404
1+340	312,382	310,995	311,300	311,006	1,387	1,082	1,376
1+360	312,829	311,465	311,755	311,443	1,364	1,074	1,386
1+380	313,276	311,700	312,000	311,700	1,576	1,276	1,576
1+400	313,723	312,292	312,609	312,326	1,431	1,114	1,397
1+420	314,170	312,974	313,222	312,869	1,196	0,948	1,301
1+440	314,617	313,447	313,685	313,322	1,170	0,932	1,295
1+460	315,064	313,890	314,141	313,791	1,174	0,923	1,273
1+480	315,510	314,306	314,521	314,134	1,204	0,989	1,376
1+500	315,957	314,921	315,157	314,790	1,036	0,800	1,167
1+520	316,404	315,700	316,000	315,700	0,704	0,404	0,704
1+540	316,851	315,812	316,084	315,756	1,039	0,767	1,095
1+560	317,298	315,934	316,180	315,826	1,364	1,118	1,472
1+580	317,745	316,888	317,149	316,811	0,857	0,596	0,934
1+600	318,192	317,373	317,564	317,150	0,819	0,628	1,042
1+620	318,639	317,989	318,285	317,982	0,650	0,354	0,657
1+640	319,086	318,277	318,622	318,365	0,809	0,464	0,721
1+660	319,533	318,914	319,285	319,092	0,619	0,248	0,441
1+680	319,980	319,409	319,859	319,709	0,571	0,121	0,271
1+700	320,426	319,914	320,309	320,106	0,512	0,117	0,320
1+720	320,873	320,402	320,779	320,556	0,471	0,094	0,317
1+740	321,320	320,894	321,244	320,993	0,426	0,076	0,327
1+760	321,767	321,365	321,685	321,397	0,402	0,082	0,370
1+780	322,214	321,724	322,113	321,873	0,490	0,101	0,341
1+800	322,661	322,270	322,568	322,266	0,391	0,093	0,395
1+820	323,108	322,620	322,911	322,605	0,488	0,197	0,503
1+840	323,555	322,938	323,276	323,003	0,617	0,279	0,552
1+860	324,002	323,609	324,016	323,734	0,393	-0,014	0,268
1+880	324,449	323,848	324,357	324,266	0,601	0,092	0,183
1+900	324,896	324,187	324,766	324,761	0,709	0,130	0,135
1+920	325,342	324,126	324,788	324,728	1,216	0,554	0,614
1+940	325,789	323,733	324,379	324,363	2,056	1,410	1,426
1+960	326,236	323,844	324,473	324,436	2,392	1,763	1,800
1+980	326,683	323,413	324,407	324,743	3,270	2,276	1,940
2+000	327,130	322,509	324,856	324,977	4,621	2,274	2,153
2+020	327,577	320,626	324,578	325,050	6,951	2,999	2,527
2+040	327,953	320,820	324,617	325,230	7,133	3,336	2,723
2+060	328,053	320,518	324,661	325,768	7,535	3,392	2,285
2+080	327,863	320,635	325,483	326,083	7,228	2,380	1,780
2+100	327,385	319,899	326,037	326,215	7,486	1,348	1,170
2+120	326,617	320,582	326,544	327,789	6,035	0,073	-1,172
2+140	325,630	319,587	325,700	327,906	6,043	-0,070	-2,276
2+160	324,631	319,184	324,078	327,880	5,447	0,553	-3,249
2+180	323,632	319,190	321,085	323,242	4,442	2,547	0,390
2+200	322,633	318,912	320,355	321,165	3,721	2,278	1,468
2+220	321,633	318,072	319,449	319,998	3,561	2,184	1,635
2+240	320,634	316,715	317,853	318,487	3,919	2,781	2,147
2+260	319,635	315,647	316,694	317,032	3,988	2,941	2,603
2+280	318,635	314,715	315,647	316,099	3,920	2,988	2,536
2+300	317,636	314,064	314,821	315,253	3,572	2,815	2,383
2+320	316,660	313,867	314,493	314,495	2,793	2,167	2,165
2+340	315,762	313,804	314,426	314,422	1,958	1,336	1,340
2+360	314,944	312,969	313,842	313,974	1,975	1,102	0,970
2+380	314,206	312,813	313,411	313,384	1,393	0,795	0,822
2+400	313,548	312,809	313,357	313,426	0,739	0,191	0,122
2+420	312,970	312,226	312,820	312,929	0,744	0,150	0,041
2+440	312,472	311,620	312,221	312,319	0,852	0,251	0,153
2+460	312,054	310,796	311,439	311,447	1,258	0,615	0,607
2+480	311,716	310,012	310,693	310,743	1,704	1,023	0,973
2+500	311,458	309,437	310,140	310,190	2,021	1,318	1,268
2+520	311,280	309,156	309,691	309,629	2,124	1,589	1,651
2+540	311,182	309,086	309,553	309,431	2,096	1,629	1,751
2+560	311,164	309,130	309,568	309,417	2,034	1,596	1,747
2+580	311,191	309,236	309,669	309,512	1,955	1,522	1,679
2+600	311,218	309,376	309,815	309,665	1,842	1,403	1,553
2+620	311,245	309,482	309,855	309,637	1,763	1,390	1,608
2+640	311,272	309,834	310,282	310,139	1,438	0,990	1,133
2+660	311,300	310,358	310,728	310,503	0,942	0,572	0,797
2+680	311,327	310,912	311,430	311,346	0,415	-0,103	-0,019
2+700	311,354	311,132	311,630	311,532	0,222	-0,276	-0,178
2+720	311,381	311,125	311,616	311,514	0,256	-0,235	-0,133
2+740	311,409	311,700	312,000	311,745	-0,291	-0,591	-0,336
2+760	311,436	312,062	312,518	312,377	-0,626	-1,082 -	-0,941
2+780	311,463	311,179	311,661	311,532	0,284	0,198 -	-0,069
2+788,922	311,463	311,179	311,661	311,532	0,284	0,198	-0,069

ROTONDA 1

Estación	Rasante	Pie I.	Eje	Pie D.	C.R.I.	C.R.Eje	C.R.D.
0+000	270,837	271,707	271,442	270,700	-0,870	-0,605	0,137
0+020	271,407	272,326	272,000	271,328	-0,919	-0,593	0,079
0+040	271,417	270,700	271,000	270,700	0,717	0,417	0,717
0+060	270,765	269,882	270,564	270,700	0,883	0,201	0,065
0+080	270,330	269,898	270,536	270,592	0,432	-0,206	-0,262
0+094,247	270,330	269,898	270,536	270,592	0,432	-0,206	-0,262

ROTONDA 2

Estación	Rasante	Pie I.	Eje	Pie D.	C.R.I.	C.R.Eje	C.R.D.
0+000	311,548	311,615	311,667	311,140	-0,067	-0,119	0,408
0+020	311,055	311,533	311,710	311,294	-0,478	-0,655	-0,239
0+040	310,562	310,082	310,655	310,640	0,480	-0,093	-0,078
0+060	310,301	309,700	310,035	310,735	0,601	0,266	-0,434
0+080	311,390	311,228	311,589	311,349	0,162	-0,199	0,041
0+100	311,923	311,870	311,812	311,313	0,053	0,111	0,610
0+106,813	311,923	311,870	311,812	311,313	0,053	0,111	0,610

EJE 1

Estación	Rasante	Pie I.	Eje	Pie D.	C.R.I.	C.R.Eje	C.R.D.
0+000	265,481	265,692	265,482	264,742	-0,211	-0,001	0,739
0+020	266,566	266,704	266,578	265,901	-0,138	-0,012	0,665
0+040	267,157	267,717	267,221	266,700	-0,560	-0,064	0,457

0+060	268,076	268,732	268,093	267,700	-0,656	-0,017	0,376
0+080	269,242	269,700	269,250	268,700	-0,458	-0,008	0,542
0+095,206	269,242	269,700	269,250	268,700	-0,458	-0,008	0,542

EJE 2

Estación	Rasante	Pie I.	Eje	Pie D.	C.R.I.	C.R.Eje	C.R.D.
0+000	271,551	272,191	272,000	271,159	-0,640 -	-0,449 -	0,392
0+020	272,270	272,836	273,000	272,258	0,566 -	0,730 -	0,012 -
0+040	273,129	273,758	274,000	273,553	0,629 -	0,871 -	0,424 -
0+053,112	273,129	273,758	274,000	273,553	0,629	0,871	0,424

EJE 3

Estación	Rasante	Pie I.	Eje	Pie D.	C.R.I.	C.R.Eje	C.R.D.
0+000	311,100	311,047	310,762	310,131	0,053	0,338	0,969
0+020	310,693	310,923	310,695	310,070	-0,230	-0,002	0,623
0+040	309,998	309,915	310,000	309,584	0,083	-0,002	0,414
0+060	309,500	309,412	309,508	309,016	0,088	-0,008	0,484
0+080	309,258	309,135	309,264	308,801	0,123	-0,006	0,457
0+100	309,015	308,759	309,017	308,589	0,256	-0,002	0,426
0+100,833	309,015	308,759	309,017	308,589	0,256	-0,002	0,426

EJE 4

Estación	Rasante	Pie I.	Eje	Pie D.	C.R.I.	C.R.Eje	C.R.D.
0+000	311,101	309,906	311,199	311,489	1,195	-0,098	-0,388
0+020	311,072	310,686	310,995	310,857	0,386	0,077	0,215
0+040	310,203	310,700	311,000	310,214	-0,497	-0,797	-0,011
0+053,946	310,203	310,700	311,000	310,214	-0,497	-0,797	-0,011

EJE 5

Estación	Rasante	Pie I.	Eje	Pie D.	C.R.I.	C.R.Eje	C.R.D.
0+000	313,833	313,442	313,834	313,627	0,391	-0,001	-0,206
0+020	313,001	312,700	313,000	312,700	0,301	0,001	0,301
0+040	313,000	312,700	313,000	312,700	0,300	0,000	0,300
0+060	312,987	312,607	312,985	312,552	0,380	0,002	0,435
0+080	312,000	311,700	312,000	311,700	0,300	0,000	0,300
0+082,220	312,034	311,700	312,000	311,700	0,300	0,000	0,300

A3.5 LISTADO DE MEDICIÓN DE SUPERFICIE DE TIERRAS

En los siguientes listados se proporciona información sobre:

- Estación: punto kilométrico en el que se produce la medición
- As. Terra: Asiento de terraplén, en m^2
- S. Ocupa: superficie de ocupación, en m^2
- V.T.Veg: volumen de tierra vegetal, en m^3
- V. Expla: volumen de explanada mejorada, en m^3
- V. Terra: volumen de terraplén en m^3
- V. D. Tie: Volumen de desmonte en tierra, en m^3
- S. Expla: superficie de explanada mejorada, en m^2
- S. Terra: superficie de terraplén, en m^2
- S. D. Tie: superficie de desmonte en tierra, en m^2

TRONCO

Estación	As.Terra.	S.Ocupa.	V.T.Veg.	V.Expla.	V.Terra.	V.D.Tie.	S.Expla	S.Terra.	S.D.Tie.
0+000	0	0	0	0	0	0	8	0	6
	46	360	108	122	2	170	0	0	0
0+020	46	360	108	122	2	170	5	0	11
	110	276	83	91	57	110	0	0	0
0+040	157	637	191	213	59	280	5	6	0
	110	281	84	91	57	102	0	0	0
0+060	267	918	275	304	115	382	5	0	10
	0	318	95	90	0	246	0	0	0
0+080	267	1.236	371	394	115	629	4	0	15
	31	318	95	91	2	189	0	0	0
0+100	298	1.554	466	485	117	818	5	0	4
	105	269	81	91	15	48	0	0	0
0+120	403	1.823	547	576	133	866	5	1	1
	168	251	75	92	40	10	0	0	0
0+140	570	2.074	622	668	172	876	5	3	0
	201	257	77	92	60	5	0	0	0
0+160	771	2.331	699	760	233	881	5	3	0
	216	265	79	92	105	6	0	0	0
0+180	987	2.596	779	852	337	887	5	7	0
	212	303	91	91	130	53	0	0	0
0+200	1.199	2.899	870	943	467	941	5	6	5
	204	339	102	91	119	86	0	0	0
0+220	1.403	3.238	971	1.034	587	1.027	5	6	4
	200	342	103	91	117	79	0	0	0
0+240	1.603	3.580	1.074	1.125	704	1.106	5	6	4
	195	337	101	91	105	83	0	0	0
0+260	1.798	3.916	1.175	1.216	809	1.190	5	5	4
	169	355	106	91	112	150	0	0	0
0+280	1.967	4.271	1.281	1.308	921	1.340	5	6	11
	74	373	112	91	64	446	0	0	0
0+300	2.041	4.644	1.393	1.398	985	1.786	4	0	34
	0	390	117	90	0	831	0	0	0
0+320	2.041	5.034	1.510	1.488	985	2.617	4	0	49
	0	424	127	90	0	1.075	0	0	0
0+340	2.041	5.458	1.637	1.578	985	3.692	4	0	58
	0	428	128	90	0	966	0	0	0
0+360	2.041	5.885	1.766	1.668	985	4.658	4	0	39
	0	418	126	90	0	903	0	0	0
0+380	2.041	6.304	1.891	1.758	985	5.561	4	0	52
	0	417	125	90	0	1.036	0	0	0
0+400	2.041	6.721	2.016	1.848	985	6.597	4	0	52
	0	422	127	90	0	1.080	0	0	0
0+420	2.041	7.143	2.143	1.938	985	7.677	4	0	56
	0	426	128	90	0	1.139	0	0	0
0+440	2.041	7.568	2.270	2.028	985	8.816	4	0	58
	0	429	129	90	0	1.180	0	0	0
0+460	2.041	7.997	2.399	2.118	985	9.996	4	0	60
	0	427	128	90	0	1.123	0	0	0
0+480	2.041	8.424	2.527	2.208	985	11.119	4	0	52
	0	419	126	90	0	1.011	0	0	0
0+500	2.041	8.843	2.653	2.297	985	12.130	4	0	49
	0	401	120	90	0	835	0	0	0
0+520	2.041	9.244	2.773	2.387	985	12.965	4	0	34
	0	387	116	90	0	718	0	0	0
0+540	2.041	9.631	2.889	2.477	985	13.683	4	0	37
	0	377	113	90	0	641	0	0	0

0+560	2.041	10.008	3.002	2.567	985	14.323	4	0	27
	13	332	100	91	1	362	0	0	0
0+580	2.054	10.341	3.102	2.658	986	14.685	5	0	9
	133	303	91	91	157	102	0	0	0
0+600	2.187	10.643	3.193	2.749	1.143	14.788	5	16	1
	279	315	94	92	443	9	0	0	0
0+620	2.466	10.958	3.287	2.841	1.586	14.796	5	29	0
	317	322	97	93	550	0	0	0	0
0+640	2.783	11.280	3.384	2.934	2.137	14.797	5	26	0
	321	323	97	93	474	0	0	0	0
0+660	3.104	11.602	3.481	3.027	2.611	14.797	5	21	0
	243	312	94	93	280	6	0	0	0
0+680	3.347	11.914	3.574	3.119	2.891	14.803	5	7	1
	80	315	94	91	70	125	0	0	0
0+700	3.427	12.229	3.669	3.211	2.961	14.928	5	0	12
	0	278	83	90	0	149	0	0	0
0+720	3.427	12.507	3.752	3.301	2.961	15.077	4	0	3
	74	232	70	91	2	34	0	0	0
0+740	3.501	12.739	3.822	3.392	2.963	15.111	5	0	0
	74	232	70	91	2	34	0	0	0
0+760	3.575	12.972	3.891	3.483	2.964	15.145	4	0	3
	0	278	84	90	0	122	0	0	0
0+780	3.575	13.250	3.975	3.573	2.964	15.267	5	0	9
	0	282	85	91	0	110	0	0	0
0+800	3.575	13.532	4.060	3.664	2.964	15.377	5	0	2
	100	238	71	92	6	19	0	0	0
0+820	3.675	13.769	4.131	3.756	2.970	15.396	5	1	0
	230	252	75	93	45	1	0	0	0
0+840	3.905	14.021	4.206	3.849	3.015	15.396	5	4	0
	258	258	77	93	69	0	0	0	0
0+860	4.163	14.279	4.284	3.942	3.084	15.396	5	3	0
	223	250	75	93	40	2	0	0	0
0+880	4.386	14.529	4.359	4.034	3.125	15.398	5	1	0
	186	244	73	93	17	3	0	0	0
0+900	4.571	14.773	4.432	4.127	3.141	15.401	5	1	0
	158	242	73	93	8	5	0	0	0
0+920	4.730	15.015	4.505	4.220	3.149	15.406	5	0	0
	68	239	72	93	2	11	0	0	0
0+940	4.798	15.254	4.576	4.312	3.151	15.417	5	0	1
	0	237	71	92	0	17	0	0	0
0+960	4.798	15.490	4.647	4.405	3.151	15.434	5	0	1
	109	241	72	93	11	10	0	0	0
0+980	4.906	15.732	4.719	4.497	3.162	15.444	5	1	0
	226	247	74	93	24	0	0	0	0
1+000	5.132	15.979	4.794	4.590	3.187	15.444	5	1	0
	235	247	74	93	25	0	0	0	0
1+020	5.367	16.226	4.868	4.683	3.211	15.444	5	1	0
	244	250	75	93	37	0	0	0	0
1+040	5.611	16.476	4.943	4.776	3.248	15.444	5	3	0
	250	250	75	93	38	0	0	0	0
1+060	5.862	16.726	5.018	4.869	3.286	15.444	5	1	0
	228	245	74	93	18	0	0	0	0
1+080	6.090	16.971	5.091	4.962	3.304	15.445	5	0	0
	236	253	76	93	47	0	0	0	0
1+100	6.326	17.224	5.167	5.055	3.351	15.445	5	4	0
	261	261	78	93	76	0	0	0	0
1+120	6.587	17.486	5.246	5.147	3.427	15.445	5	3	0
	258	258	77	93	61	0	0	0	0
1+140	6.845	17.743	5.323	5.240	3.488	15.445	5	3	0
	233	255	76	93	48	1	0	0	0
1+160	7.078	17.998	5.399	5.333	3.536	15.446	5	2	0
	197	252	76	92	39	3	0	0	0
1+180	7.276	18.250	5.475	5.425	3.575	15.449	5	2	0
	187	251	75	92	37	5	0	0	0
1+200	7.463	18.501	5.550	5.517	3.612	15.454	5	2	0
	219	256	77	92	54	2	0	0	0
1+220	7.681	18.757	5.627	5.610	3.666	15.456	5	3	0
	258	263	79	93	85	0	0	0	0
1+240	7.939	19.020	5.706	5.702	3.751	15.456	5	5	0
	268	268	80	93	104	0	0	0	0
1+260	8.207	19.288	5.786	5.795	3.855	15.456	5	5	0
	269	269	81	93	110	0	0	0	0
1+280	8.476	19.557	5.867	5.887	3.965	15.456	5	6	0
	272	272	82	93	123	0	0	0	0
1+300	8.748	19.829	5.949	5.980	4.088	15.456	5	7	0
	275	275	82	93	135	0	0	0	0
1+320	9.022	20.103	6.031	6.073	4.222	15.456	5	7	0
	274	274	82	93	131	0	0	0	0
1+340	9.296	20.377	6.113	6.165	4.354	15.456	5	6	0
	273	273	82	93	126	0	0	0	0
1+360	9.569	20.650	6.195	6.258	4.480	15.456	5	6	0
	277	277	83	93	149	0	0	0	0
1+380	9.846	20.927	6.278	6.350	4.629	15.456	5	9	0
	275	275	83	93	146	0	0	0	0
1+400	10.122	21.203	6.361	6.443	4.775	15.456	5	6	0
	264	264	79	93	96	0	0	0	0
1+420	10.386	21.466	6.440	6.536	4.871	15.456	5	4	0
	258	258	78	93	72	0	0	0	0
1+440	10.644	21.725	6.517	6.629	4.943	15.456	5	4	0
	258	258	77	93	69	0	0	0	0
1+460	10.902	21.982	6.595	6.722	5.012	15.456	5	3	0
	259	259	78	93	77	0	0	0	0
1+480	11.161	22.242	6.673	6.815	5.089	15.456	5	4	0
	256	256	77	93	61	0	0	0	0
1+500	11.417	22.498	6.749	6.908	5.150	15.456	5	2	0
	125	238	71	92	18	27	0	0	0
1+520	11.542	22.736	6.821	7.000	5.168	15.484	5	0	3
	124	237	71	92	14	27	0	0	0
1+540	11.666	22.973	6.892	7.091	5.182	15.511	5	1	0
	259	259	78	93	74	0	0	0	0
1+560	11.924	23.231	6.969	7.184	5.256	15.511	5	6	0
	141	253	76	93	60	6	0	0	0
1+580	12.065	23.485	7.045	7.277	5.316	15.517	5	0	1
	78	239	72	92	2	11	0	0	0
1+600	12.144	23.723	7.117	7.369	5.318	15.528	5	0	0
	71	231	69	91	2	37	0	0	0
1+620	12.215	23.955	7.186	7.460	5.320	15.565	4	0	3
	0	227	68	90	0	54	0	0	0
1+640	12.215	24.181	7.254	7.550	5.320	15.619	5	0	2
	0	254	76	90	0	91	0	0	0
1+660	12.215	24.436	7.331	7.640	5.320	15.710	4	0	7
	0	308	92	90	0	184	0	0	0
1+680	12.215	24.744	7.423	7.730	5.320	15.894	5	0	11
	0	337	101	90	0	228	0	0	0
1+700	12.215	25.081	7.524	7.820	5.320	16.122	5	0	11
	0	337	101	90	0	229	0	0	0
1+720	12.215	25.418	7.625	7.911	5.320	16.351	5	0	12
	0	336	101	90	0	224	0	0	0
1+740	12.215	25.754	7.726	8.001	5.320	16.575	4	0	11
	0	309	93	90	0	196	0	0	0
1+760	12.215	26.063	7.819	8.091	5.320	16.771	5	0	9

	0	284	85	90	0	175	0	0	0
1+780	12.215	26.347	7.904	8.181	5.320	16.946	5	0	9
	0	288	86	91	0	177	0	0	0
1+800	12.215	26.635	7.990	8.272	5.320	17.123	5	0	9
	5	292	87	91	0	167	0	0	0
1+820	12.220	26.927	8.078	8.363	5.320	17.290	5	0	8
	20	292	88	91	1	140	0	0	0
1+840	12.240	27.218	8.166	8.454	5.321	17.430	5	0	6
	14	288	86	90	1	165	0	0	0
1+860	12.254	27.506	8.252	8.544	5.322	17.595	4	0	10
	0	309	93	90	0	208	0	0	0
1+880	12.254	27.815	8.344	8.634	5.322	17.803	4	0	11
	0	309	93	90	0	187	0	0	0
1+900	12.254	28.124	8.437	8.724	5.322	17.990	5	0	8
	61	265	80	91	11	93	0	0	0
1+920	12.315	28.389	8.517	8.815	5.332	18.083	5	1	1
	208	270	81	92	124	12	0	0	0
1+940	12.523	28.659	8.598	8.907	5.457	18.094	5	11	0
	306	306	92	93	283	0	0	0	0
1+960	12.829	28.965	8.690	8.999	5.740	18.094	5	17	0
	333	333	100	93	432	0	0	0	0
1+980	13.162	29.298	8.789	9.092	6.172	18.094	5	26	0
	374	374	112	93	575	0	0	0	0
2+000	13.536	29.672	8.902	9.185	6.747	18.094	5	31	0
	441	441	132	93	901	0	0	0	0
2+020	13.977	30.113	9.034	9.277	7.648	18.094	5	59	0
	490	490	147	93	1.254	0	0	0	0
2+040	14.466	30.602	9.181	9.370	8.902	18.094	5	66	0
	495	495	149	93	1.313	0	0	0	0
2+060	14.962	31.098	9.329	9.463	10.215	18.094	5	65	0
	482	482	144	93	1.141	0	0	0	0
2+080	15.443	31.579	9.474	9.556	11.357	18.094	5	49	0
	461	461	138	93	806	0	0	0	0
2+100	15.905	32.041	9.612	9.648	12.163	18.094	5	31	0
	352	468	140	92	434	160	0	0	0
2+120	16.256	32.509	9.753	9.740	12.597	18.254	5	12	16
	245	487	146	91	231	391	0	0	0
2+140	16.502	32.996	9.899	9.832	12.827	18.645	5	11	23
	244	490	147	91	264	434	0	0	0
2+160	16.745	33.486	10.046	9.923	13.091	19.079	5	15	20
	284	407	122	92	402	203	0	0	0
2+180	17.029	33.893	10.168	10.015	13.493	19.282	5	25	0
	333	335	101	93	499	0	0	0	0
2+200	17.362	34.229	10.269	10.108	13.992	19.282	5	25	0
	343	343	103	93	487	0	0	0	0
2+220	17.705	34.572	10.372	10.200	14.479	19.282	5	24	0
	358	358	107	93	572	0	0	0	0
2+240	18.063	34.930	10.479	10.293	15.050	19.282	5	33	0
	380	380	114	93	708	0	0	0	0
2+260	18.443	35.309	10.593	10.386	15.759	19.282	5	37	0
	386	386	116	93	752	0	0	0	0
2+280	18.829	35.695	10.709	10.478	16.510	19.282	5	38	0
	376	376	113	93	716	0	0	0	0
2+300	19.205	36.071	10.821	10.571	17.227	19.282	5	34	0
	354	354	106	93	568	0	0	0	0
2+320	19.559	36.425	10.928	10.663	17.795	19.282	5	23	0
	314	314	94	93	330	0	0	0	0
2+340	19.873	36.739	11.022	10.756	18.124	19.282	5	10	0
	284	284	85	93	170	0	0	0	0
2+360	20.157	37.023	11.107	10.848	18.294	19.282	5	7	0
	268	268	80	93	96	0	0	0	0
2+380	20.424	37.290	11.187	10.941	18.390	19.282	5	3	0
	128	270	81	91	26	73	0	0	0
2+400	20.552	37.561	11.268	11.032	18.416	19.355	5	0	7
	0	285	85	90	0	152	0	0	0
2+420	20.552	37.846	11.354	11.123	18.416	19.507	5	0	8
	0	286	86	91	0	144	0	0	0
2+440	20.552	38.132	11.440	11.213	18.416	19.651	5	0	6
	72	266	80	92	8	69	0	0	0
2+460	20.625	38.398	11.519	11.305	18.424	19.720	5	1	0
	208	258	77	92	64	4	0	0	0
2+480	20.832	38.656	11.597	11.397	18.488	19.724	5	6	0
	279	279	84	93	153	0	0	0	0
2+500	21.112	38.936	11.681	11.490	18.642	19.724	5	10	0
	296	296	89	93	234	0	0	0	0
2+520	21.408	39.232	11.770	11.582	18.876	19.724	5	14	0
	304	305	91	93	280	0	0	0	0
2+540	21.712	39.536	11.861	11.675	19.156	19.724	5	14	0
	305	305	91	93	282	0	0	0	0
2+560	22.017	39.841	11.952	11.768	19.437	19.724	5	14	0

ROTONDA 1

Estación	Co.Terr	Co.Des	T.Terr.S	T.Terr.I	T.D.Tie.	T.D.Trán.	T.D.Roca	Lon.C.I.	Lon.C.D	Muro I.	Muro D
0+000	0	0	0	0	0	0	0	0	0	0	0
	0	220	0	0	142	0	0	28	12	0	0
0+020	0	220	7	0	72	0	0	14	6	0	0
	0	439	7	0	213	0	0	43	18	0	0
0+040	0	220	14	0	11	0	0	0	6	0	0
	0	659	20	0	224	0	0	43	23	0	0
0+060	0	220	7	0	54	0	0	14	12	0	0
	0	879	27	0	278	0	0	57	35	0	0
0+080	0	157	0	0	81	0	0	20	8	0	0
0+094,247	0	1.036	27	0	358	0	0	77	43	0	0

ROTONDA 2

Estación	Co.Terr	Co.Des	T.Terr.S	T.Terr.I	T.D.Tie.	T.D.Trán.	T.D.Roca	Lon.C.I.	Lon.C.D	Muro I.	Muro D
0+000	0	0	0	0	0	0	0	0	0	0	0
	0	220	0	0	112	0	0	27	13	0	0
0+020	0	220	0	0	112	0	0	27	13	0	0
	0	220	0	0	104	0	0	27	13	0	0
0+040	0	439	0	0	216	0	0	55	25	0	0
	0	220	0	0	57	0	0	14	13	0	0
0+060	0	659	0	0	273	0	0	68	38	0	0
	0	220	0	0	63	0	0	14	13	0	0
0+080	0	879	0	0	335	0	0	82	51	0	0
	0	220	3	0	84	0	0	27	6	0	0
0+100	0	1.099	3	0	420	0	0	109	57	0	0
	0	75	1	0	29	0	0	9	2	0	0
0+106,813	0	1.173	4	0	449	0	0	119	59	0	0

EJE 1

Estación	Co.Terr	Co.Des	T.Terr.S	T.Terr.I	T.D.Tie.	T.D.Trán.	T.D.Roca	Lon.C.I	Lon.C.D	Muro I	Muro D
0+000	0	0	0	0	0	0	0	0	0	0	0
	0	140	0	0	87	0	0	20	20	0	0
0+020	0	140	0	0	87	0	0	20	20	0	0
	0	140	0	0	96	0	0	20	20	0	0
0+040	0	280	0	0	184	0	0	40	40	0	0
	0	143	0	0	108	0	0	20	20	0	0
0+060	0	423	0	0	292	0	0	60	60	0	0
	0	183	0	0	106	0	0	20	20	0	0
0+080	0	606	0	0	398	0	0	80	80	0	0
	0	236	0	0	77	0	0	15	15	0	0
0+095,206	0	842	0	0	476	0	0	95	95	0	0

EJE 2

Estación	Co.Terr	Co.Des	T.Terr.S	T.Terr.I	T.D.Tie.	T.D.Trán.	T.D.Roca	Lon.C.I	Lon.C.D	Muro I	Muro D
0+000	0	0	0	0	0	0	0	0	0	0	0
	0	297	0	0	118	0	0	20	20	0	0
0+020	0	297	0	0	118	0	0	20	20	0	0
	0	167	0	0	126	0	0	20	20	0	0
0+040	0	464	0	0	244	0	0	40	40	0	0
	0	69	0	0	61	0	0	13	7	0	0
0+053,112	0	533	0	0	305	0	0	53	47	0	0

EJE 3

Estación	Co.Terr	Co.Des	T.Terr.S	T.Terr.I	T.D.Tie.	T.D.Trán.	T.D.Roca	Lon.C.I	Lon.C.D	Muro I.	Muro D
0+000	0	0	0	0	0	0	0	0	0	0	0
	0	349	6	0	58	0	0	20	0	0	0
0+020	0	349	6	0	58	0	0	20	0	0	0
	0	180	0	0	74	0	0	20	10	0	0
0+040	0	529	7	0	132	0	0	40	10	0	0
	0	140	0	0	87	0	0	20	20	0	0
0+060	0	669	7	0	219	0	0	60	30	0	0
	0	140	0	0	86	0	0	20	20	0	0
0+080	0	809	7	0	305	0	0	80	50	0	0
	0	140	0	0	85	0	0	20	20	0	0
0+100	0	949	7	0	389	0	0	100	70	0	0
	0	4	0	0	3	0	0	1	0	0	0
0+100,833	0	953	7	0	393	0	0	101	70	0	0

EJE 4

Estación	Co.Terr	Co.Des	T.Terr.S	T.Terr.I	T.D.Tie.	T.D.Trán.	T.D.Roca	Lon.C.I	Lon.C.D	Muro I.	Muro D
0+000	0	0	0	0	0	0	0	0	0	0	0
	1	289	9	0	76	0	0	10	20	0	0
0+020	1	289	9	0	76	0	0	10	20	0	0
	0	167	0	0	102	0	0	20	20	0	0
0+040	1	456	9	0	178	0	0	30	40	0	0
	0	98	0	0	74	0	0	14	14	0	0
0+053,946	1	554	9	0	253	0	0	44	54	0	0

EJE 5

Estación	Co.Terr	Co.Des	T.Terr.S	T.Terr.I	T.D.Tie.	T.D.Trán.	T.D.Roca	Lon.C.I	Lon.C.D	Muro I.	Muro D
0+000	0	0	0	0	0	0	0	0	0	0	0
	0	140	0	0	82	0	0	20	20	0	0
0+020	0	140	0	0	82	0	0	20	20	0	0
	0	162	2	0	64	0	0	20	10	0	0
0+040	0	302	2	0	147	0	0	40	30	0	0
	0	202	8	0	48	0	0	20	0	0	0
0+060	0	505	9	0	194	0	0	59	30	0	0
	0	287	13	0	52	0	0	19	0	0	0
0+080	0	792	23	0	246	0	0	78	30	0	0
	8	22	3	0	3	0	0	1	0	1	0
0+082,220	8	814	26	0	249	0	0	79	30	1	0

A3.6 LISTADO DE ALINEACIONES EN ALZADO

En los listados siguientes se muestran las siguientes columnas:

- Ver: número de vértice.
- Esta/Cota: Pk del vértice y cota en metros.
- TE/TS: Pk del eje en el que se encuentra la tangente de entrada y la tangente de salida del vértice, en metros.
- Cota TE/TS: Cota de la tangente de entrada y de salida, en metros.
- Pente (%) E/S: Pendiente de las tangentes de entrada y de salida del acuerdo, en %.
- L/Flecha: longitud del acuerdo y flecha del acuerdo vertical, en metros.
- Kv/Theta(%): Parámetro en metros y diferencia de pendiente en % de los acuerdos verticales.

TRONCO

Ver.	Esta./Cota	TE/TS	Cota TE/TS	Pente.(%)E/S	L/Flecha	Kv/Theta(%)
1	0+000,000 270,933					
		0+000,000	270,933	-4,6633		
2	0+043,000 268,928	0+006,825 0+079,174	270,615 270,980	-4,6633 5,6723	72,349 0,935	700,000 10,3356
3	0+464,000 292,808	0+214,000 0+714,000	278,627 298,394	5,6723 2,2345	500,000 -2,149	-14.544,527 -3,4377
4	2+076,000 328,829	2+026,000 2+126,000	327,712 326,331	2,2345 -4,9966	100,000 -0,904	-1.382,906 -7,2311
5	2+433,000 310,991	2+304,678 2+561,321	317,403 311,166	-4,9966 0,1363	256,643 1,647	5.000,000 5,1329
6	2+800,000 311,491	2+800,000	311,491	0,1363		

ROTONDA 1

Ver.	Esta./Cota	TE/TS	Cota TE/TS	Pente.(%)E/S	L/Flecha	Kv/Theta(%)
1	0+000,000 270,837					
		0+000,000	270,837	2,8514		
2	0+030,827 271,716	0+024,718 0+036,935	271,542 271,517	-2,4638 -3,2575	12,218 -0,093	-200,000 -6,1089
3	0+78,011 270,179	0+070,700 0+085,321	270,417 270,475	-3,2575 4,0528	14,621 0,134	200,000 7,3103
4	0+94,247 270,837	0+94,247	270,837	4,0528		

ROTONDA 2

Ver.	Esta./Cota	TE/TS	Cota TE/TS	Pente.(%)E/S	L/Flecha	Kv/Theta(%)
1	0+000,000 311,548					
		0+000,000	311,548	-2,4638		
2	0+059,000 310,094	0+050,366 0+067,633	310,307 310,627	-2,4638 6,1696	17,267 0,186	200,000 8,6334
3	0+94,000 312,254	0+088,161 0+099,838	311,894 311,932	6,1696 -5,5081	11,678 -0,170	-100,000 -11,6777
4	0+106,813 311,548	0+106,813	311,548	-5,5081		

EJE 1

Ver.	Esta./Cota	TE/TS	Cota TE/TS	Pente.(%)E/S	L/Flecha	Kv/Theta(%)
1	0+000,000 265,482	0+000,000	265,482	5,4239		
2	0+020,000 266,567	0+020,000 0+020,000	266,567 266,567	5,4239 2,9530	0,000 0,000	0,000 -2,4709
3	0+040,000 267,157	0+040,000 0+040,000	267,157 267,157	2,9530 4,5938	0,000 0,000	0,000 1,6408
4	0+060,000 268,076	0+060,000 0+060,000	268,076 268,076	4,5938 5,8334	0,000 0,000	0,000 1,2396
5	0+081,000 269,301	0+081,000 0+081,000	269,301 269,301	5,8334 6,6392	0,000 0,000	0,000 0,8058
6	0+100,000 270,563	0+100,000 0+100,000	270,563 270,563	6,6392 4,9401	0,000 0,000	0,000 -1,6991
7	0+140,000 272,539	0+140,000 0+140,000	272,539 272,539	4,9401 3,1062	0,000 0,000	0,000 -1,8339
8	0+160,000 273,160	0+160,000 0+160,000	273,160 273,160	3,1062 7,1082	0,000 0,000	0,000 4,0020
9	0+171,819 274,000	0+171,819	274,000	7,1082		

EJE 2

Ver.	Esta./Cota	TE/TS	Cota TE/TS	Pente.(%)E/S	L/Flecha	Kv/Theta(%)
1	0+000,000 271,551	0+000,000	271,551	3,2448		
2	0+020,000 272,200	0+020,000 0+040,000	271,551 273,129	3,2448 4,6448	4,000 0,070	2.857,155 1,400
3	0+060,000 274,058	0+060,000 0+060,000	274,058 274,058	4,6448 18,8708	0,000 0,000	0,000 14,2261
4	0+065,000 275,002	0+065,000	275,002	18,8708		

EJE 3

Ver.	Esta./Cota	TE/TS	Cota TE/TS	Pente.(%)E/S	L/Flecha	Kv/Theta(%)
1	0+000,000 311,100	0+000,000	311,100	-2,0313		
2	0+020,000 310,694	0+020,000 0+020,000	310,694 310,694	-2,0313 - 3,4750	0,000 0,000	0,000 -1,4438
3	0+040,000 309,999	0+040,000 0+040,000	309,999 309,999	-3,4750 - 2,4901	0,000 0,000	0,000 0,9850
4	0+060,000 309,501	0+060,000 0+060,000	309,501 309,501	-2,4901 - 1,2122	0,000 0,000	0,000 1,2778
5	0+100,000 309,016	0+100,000 0+100,000	309,016 309,016	-1,2122 - 0,5482	0,000 0,000	0,000 0,6640
6	0+119,000 308,912	0+119,000	308,912	-0,5482		

EJE 4

Ver.	Esta./Cota	TE/TS	Cota TE/TS	Pente.(%)E/S	L/Flecha	Kv/Theta(%)
1	0+000,000 311,102	0+000,000	311,102	-0,1489		
2	0+020,000 311,072	0+020,000 0+020,000	311,072 311,072	-0,1489 - 4,8770	0,000 0,000	0,000 -4,7281
3	0+039,000 310,146	0+039,000 0+039,000	310,146 310,146	-4,8770 5,7595	0,000 0,000	0,000 10,6365
4	0+054,000 311,009	0+054,000	311,009	5,7595		

EJE 5

Ver.	Esta./Cota	TE/TS	Cota TE/TS	Pente.(%)E/S	L/Flecha	Kv/Theta(%)
1	0+000,000 313,834	0+000,000	313,834	-4,1599		
2	0+020,000 313,002	0+020,000 0+020,000	313,002 313,002	-4,1599 - 0,0050	0,000 0,000	0,000 4,1548
3	0+040,000 313,001	0+040,000 0+040,000	313,001 313,001	-0,0050 - 0,0679	0,000 0,000	0,000 -0,0629
4	0+060,000 312,987	0+060,000 0+060,000	312,987 312,987	-0,0679 - 4,9341	0,000 0,000	0,000 -4,8662
5	0+080,000 312,000	0+080,000 0+080,000	312,000 312,000	-4,9341 0,0092	0,000 0,000	0,000 4,9432
6	0+088,000 312,001	0+088,000 0+088,000	312,001 312,001	0,0092 -4,9858	0,000 0,000	0,000 -4,9950
7	0+096,000 311,602	0+096,000	311,602	-4,9858		

A3.7 LISTADO DE VOLUMEN CAPAS DE FIRME

El siguiente listado muestra:

- Estación inicial: primer punto kilométroco del cálculo
- Estación final: último punto kilométrica del cálculo
- Intervalo: intervalo de presentación de resultado (con 0 se representa solo los datos acumulados finales).
- Estación : indica el pk de la medición
- L.b.interior: longitud de la banda interior, en metros.
- L.b.ex.iz: longitud de la banda exterior izquierda, en metros.
- L.b.ex.de: longitud de la banda exterior derecha, en metros.
- Sup. Cal: superficie de la calzada, en m^2
- Sup.ar.iz: superficie de arcén izquierdo, en m^2
- Sup.ar.de: superficie de arcén derecho, en m^2
- Vol. Tot: volumen total cubicado, en m^3

TRONCO

Estación inicial	0+000
Estación final	2+788
Intervalo	0

Estación	L.b.int.	L.b.ex.iz.	L.b.ex.de.	Sup.cal.	Sup.ar.iz.	Sup.ar.de.	Vol.tot.	Sup.ref.	Vol.ref
0+000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	0,00	1,44	2,55	43,99	2,12	3,87	24,88	0,00	0,00
0+002	0,00	1,44	2,55	43,99	2,12	3,87	24,88	0,00	0,00
	0,00	1,65	2,24	22,99	2,42	3,42	14,62	0,00	0,00
0+004	0,00	3,10	4,79	66,98	4,54	7,30	39,50	0,00	0,00
	0,00	1,70	2,21	19,87	2,49	3,37	13,10	0,00	0,00
0+006	0,00	4,79	7,00	86,85	7,03	10,66	52,60	0,00	0,00
	0,00	1,74	2,19	17,72	2,55	3,34	12,07	0,00	0,00
0+008	0,00	6,53	9,19	104,57	9,58	14,01	64,66	0,00	0,00
	0,00	1,77	2,18	16,14	2,60	3,33	11,31	0,00	0,00
0+010	0,00	8,31	11,37	120,70	12,19	17,33	75,98	0,00	0,00
	0,00	1,80	2,17	15,00	2,64	3,32	10,77	0,00	0,00
0+012	0,00	10,10	13,54	135,70	14,83	20,65	86,75	0,00	0,00
	0,00	1,82	2,17	14,31	2,67	3,32	10,45	0,00	0,00
0+014	0,00	11,92	15,72	150,01	17,49	23,97	97,20	0,00	0,00
	0,00	1,82	2,17	14,01	2,68	3,32	10,31	0,00	0,00
0+016	0,00	13,74	17,89	164,02	20,17	27,29	107,50	0,00	0,00
	0,00	2.748,71	2.759,29	19.278,00	4.121,37	4.140,63	14.173,83	0,00	0,00
2+770	0,00	2.762,46	2.777,18	19.442,02	4.141,54	4.167,92	14.281,33	0,00	0,00
	0,00	5,00	5,00	35,04	7,50	7,50	25,76	0,00	0,00
2+775	0,00	2.767,46	2.782,18	19.477,06	4.149,04	4.175,42	14.307,09	0,00	0,00
	0,00	5,00	5,00	37,87	7,50	7,50	27,17	0,00	0,00
2+780	0,00	2.772,46	2.787,18	19.514,94	4.156,54	4.182,92	14.334,26	0,00	0,00
	0,00	5,00	5,00	49,72	7,50	7,50	32,98	0,00	0,00
2+785	0,00	2.777,46	2.792,18	19.564,66	4.164,04	4.190,42	14.367,24	0,00	0,00
	0,00	3,92	3,92	56,31	5,88	5,88	34,35	0,00	0,00
2+788,922	0,00	2.781,38	2.796,10	19.620,97	4.169,92	4.196,31	14.401,60	0,00	0,00

MBC RODADURA S-20	1.413,304m³
RIEGO DE ADHERENCIA	196.468,134 m²
MBC INTERMEDIA G-20	2.025,476m³
RIEGO ADHERENCIA	197.248,981 m²
MBC BASE G-25	3.599,411m³
RIEGO IMPRIMACION	30.664,389m²
ZAHORRA ART. SUBBASE	8.014,690m³

ROTONDA 1

Estación inicial	0+000
Estación final	0+094
Intervalo	0

Estación	L.b.int.	L.b.ex.iz.	L.b.ex.de.	Sup.cal.	Sup.ar.iz.	Sup.ar.de.	Vol.tot.	Sup.ref.	Vol.ref
0+000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	0,00	116,24	72,26	659,73	181,43	101,32	484,86	0,00	0,00
0+094,247	0,00	116,24	72,26	659,73	181,43	101,32	484,86	0,00	0,00

MBC RODADURA S-20	47,359m³

RIEGO DE ADHERENCIA	6.606,909m²
MBC INTERMEDIA G-20	67,094m³
RIEGO ADHERENCIA	6.619,909m²
MBC BASE G-25	117,168m³
RIEGO IMPRIMACION	987,709m²
ZAHORRA ART. SUBBASE	252,818m³

ROTONDA 2

Estación	L.b.int.	L.b.ex.iz.	L.b.ex.de.	Sup.cal.	Sup.ar.iz.	Sup.ar.de.	Vol.tot.	Sup.ref.	Vol.ref
0+000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	0,00	128,80	84,82	747,69	200,27	120,16	549,67	0,00	0,00
0+106,813	0,00	128,80	84,82	747,69	200,27	120,16	549,67	0,00	0,00

MBC RODADURA S-20	53,674m³
RIEGO DE ADHERENCIA	7.487,591m²
MBC INTERMEDIA G-20	76,040m³
RIEGO ADHERENCIA	7.502,545m²
MBC BASE G-25	132,790m³
RIEGO IMPRIMACION	1.119,400m²
ZAHORRA ART. SUBBASE	286,526m³

EJE 1

Estación inicial	0+000
Estación final	0+095
Intervalo	0

Estación	L.b.int.	L.b.ex.iz.	L.b.ex.de.	Sup.cal.	Sup.ar.iz.	Sup.ar.de.	Vol.tot.	Sup.ref.	Vol.ref
0+000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	0,00	0,00	0,00	0,01	0,00	0,00	0,00	0,00	0,00
0+000,001	0,00	0,00	0,00	0,01	0,00	0,00	0,00	0,00	0,00
	0,00	26,72	26,72	133,59	13,36	13,36	85,09	0,00	0,00
0+026,718	0,00	26,72	26,72	133,59	13,36	13,36	85,10	0,00	0,00
	0,00	31,70	31,70	158,50	15,85	15,85	100,96	0,00	0,00
0+058,418	0,00	58,42	58,42	292,09	29,21	29,21	186,06	0,00	0,00
	0,00	16,58	16,58	95,64	14,65	14,65	65,33	0,00	0,00
0+075	0,00	75,00	75,00	387,73	43,86	43,86	251,39	0,00	0,00
	0,00	5,00	5,00	33,84	6,92	6,92	24,59	0,00	0,00
0+080	0,00	80,00	80,00	421,57	50,78	50,78	275,98	0,00	0,00
	0,00	5,00	5,00	36,73	7,50	7,50	26,58	0,00	0,00
0+085	0,00	85,00	85,00	458,29	58,28	58,28	302,56	0,00	0,00
	0,00	5,00	5,00	45,41	7,50	7,50	30,85	0,00	0,00
0+090	0,00	90,00	90,00	503,71	65,78	65,78	333,41	0,00	0,00
	0,00	5,00	5,00	65,68	7,50	7,50	40,79	0,00	0,00
0+095	0,00	95,00	95,00	569,38	73,28	73,28	374,20	0,00	0,00
	0,00	0,21	0,21	3,28	0,31	0,31	1,96	0,00	0,00
0+095,206	0,00	95,21	95,21	572,67	73,59	73,59	376,16	0,00	0,00

MBC RODADURA S-20	36,468m³
RIEGO DE ADHERENCIA MBC	5.057,971m²
INTERMEDIA G-20	52,655m³
RIEGO ADHERENCIA MBC	5.084,629m²
BASE G-25	94,607m³
RIEGO IMPRIMACION	811,245m²
ZAHORRA ART. SUBBASE	214,712m³

EJE 2

Estación inicial	0+000
Estación final	0+053
Intervalo	Todo del tramo

Estación	L.b.int.	L.b.ex.iz.	L.b.ex.de.	Sup.cal.	Sup.ar.iz.	Sup.ar.de.	Vol.tot.	Sup.ref.	Vol.ref
0+000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	0,00	5,00	5,00	96,83	6,66	6,66	55,15	0,00	0,00
0+005	0,00	5,00	5,00	96,83	6,66	6,66	55,15	0,00	0,00
	0,00	5,00	5,00	45,95	7,50	7,50	31,11	0,00	0,00
0+010	0,00	10,00	10,00	142,78	14,16	14,16	86,26	0,00	0,00
	0,00	5,00	5,00	36,88	7,50	7,50	26,64	0,00	0,00
0+015	0,00	15,00	15,00	179,66	21,66	21,66	112,90	0,00	0,00
	0,00	5,00	5,00	33,33	6,67	6,67	24,09	0,00	0,00
0+020	0,00	20,00	20,00	212,99	28,32	28,32	136,99	0,00	0,00
	0,00	5,00	5,00	30,00	5,00	5,00	20,84	0,00	0,00
0+025	0,00	25,00	25,00	242,99	33,32	33,32	157,83	0,00	0,00
	0,00	5,00	5,00	26,66	3,33	3,33	17,58	0,00	0,00
0+030	0,00	30,00	30,00	269,65	36,66	36,66	175,41	0,00	0,00
	0,00	5,00	5,00	25,00	2,50	2,50	15,92	0,00	0,00
0+035	0,00	35,00	35,00	294,65	39,16	39,16	191,34	0,00	0,00
	0,00	5,00	5,00	25,00	2,50	2,50	15,92	0,00	0,00
0+040	0,00	40,00	40,00	319,65	41,66	41,66	207,26	0,00	0,00
	0,00	10,00	10,00	50,00	5,00	5,00	31,85	0,00	0,00
0+050	0,00	50,00	50,00	369,65	46,66	46,66	239,11	0,00	0,00

MBC RODADURA S-20	23,398m³
RIEGO DE ADHERENCIA	3.250,755m²
MBC INTERMEDIA G-20	33,598m³
RIEGO ADHERENCIA	3.264,755m²
MBC BASE G-25	59,876m³
RIEGO IMPRIMACION	510,965m²
ZAHORRA ART. SUBBASE	133,991m³

EJE 3

Estación inicial	0+000
Estación final	0+100
Intervalo	0

Estación	L.b.int.	L.b.ex.iz.	L.b.ex.de.	Sup.cal.	Sup.ar.iz.	Sup.ar.de.	Vol.tot.	Sup.ref.	Vol.ref
0+000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	0,00	5,00	5,00	119,04	7,50	7,50	66,98	0,00	0,00
0+005	0,00	5,00	5,00	119,04	7,50	7,50	66,98	0,00	0,00
	0,00	5,00	5,00	55,94	7,50	7,50	36,00	0,00	0,00
0+010	0,00	10,00	10,00	174,98	15,00	15,00	102,98	0,00	0,00
	0,00	5,00	5,00	42,74	7,50	7,50	29,54	0,00	0,00
0+015	0,00	15,00	15,00	217,71	22,50	22,50	132,52	0,00	0,00
	0,00	5,00	5,00	36,66	7,50	7,50	26,55	0,00	0,00
0+020	0,00	20,00	20,00	254,37	30,00	30,00	159,07	0,00	0,00
	0,00	20,00	20,00	120,00	20,00	20,00	83,30	0,00	0,00
0+040	0,00	20,00	20,00	374,37	50,00	50,00	242,37	0,00	0,00
	0,00	60,00	60,00	300,00	30,00	30,00	191,10	0,00	0,00
0+100	0,00	100,00	100,00	674,37	80,00	80,00	433,47	0,00	0,00

MBC RODADURA S-20	42,218m³
RIEGO DE ADHERENCIA	5.860,590m²
MBC INTERMEDIA G-20	60,786m³
RIEGO ADHERENCIA	5.888,590m²
MBC BASE G-25	108,764m³
RIEGO IMPRIMACION	930,370m²

ZAHORRA ART. SUBBASE	245,093m³

MBC RODADURA S-20	35,779m³
RIEGO DE ADHERENCIA	4.968,191m²
MBC INTERMEDIA G-20	51,462m³
RIEGO ADHERENCIA	4.991,058m²
MBC BASE G-25	91,945m³
RIEGO IMPRIMACION	785,811m²
ZAHORRA ART. SUBBASE	206,661m³

EJE 4

Estación inicial	0+000
Estación final	0+053 0
Intervalo	

Estación	L.b.int.	L.b.ex.iz.	L.b.ex.de.	Sup.cal.	Sup.ar.iz.	Sup.ar.de.	Vol.tot.	Sup.ref.	Vol.ref
0+000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
	0,00	5,00	5,00	92,69	6,66	6,66	53,28	0,00	0,00
0+005	0,00	5,00	5,00	92,69	6,66	6,66	53,28	0,00	0,00
	0,00	5,00	5,00	44,53	7,50	7,50	30,40	0,00	0,00
0+010	0,00	10,00	10,00	137,22	14,16	14,16	83,68	0,00	0,00
	0,00	5,00	5,00	36,47	7,50	7,50	26,45	0,00	0,00
0+015	0,00	15,00	15,00	173,69	21,66	21,66	110,13	0,00	0,00
	0,00	5,00	5,00	33,33	6,67	6,67	24,09	0,00	0,00
0+020	0,00	20,00	20,00	207,02	28,33	28,33	134,22	0,00	0,00
	0,00	5,00	5,00	30,00	5,00	5,00	20,83	0,00	0,00
0+025	0,00	25,00	25,00	237,02	33,33	33,33	155,05	0,00	0,00
	0,00	5,00	5,00	26,66	3,33	3,33	17,57	0,00	0,00
0+030	0,00	30,00	30,00	263,68	36,66	36,66	172,62	0,00	0,00
	0,00	23,00	23,00	115,00	11,50	11,50	73,25	0,00	0,00
0+053	0,00	53,00	53,00	378,68	48,16	48,16	245,87	0,00	0,00

MBC RODADURA S-20	24,015m³
RIEGO DE ADHERENCIA	3.335,600m²
MBC INTERMEDIA G-20	34,511m³
RIEGO ADHERENCIA	3.350,440m²
MBC BASE G-25	61,579m³
RIEGO IMPRIMACION	525,880m²
ZAHORRA ART. SUBBASE	138,095m³

EJE 5

Estación inicial	0+000
Estación final	0+082 0
Intervalo	

Estación	L.b.int.	L.b.ex.iz.	L.b.ex.de.	Sup.cal.	Sup.ar.iz.	Sup.ar.de.	Vol.tot.	Sup.ref.	Vol.ref
0+000 0+020	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
0+055 0+060	0,00	19,96	20,04	100,00	9.98	10,02	63,69	0,00	0,00
0+065 0+070	0,00	19,96	20,04	100,00	9,98	10,02	63,69	0,00	0,00
0+075 0+080	0,00	34,68	35,32	209,97	34,56	35,41	145,78	0,00	0,00
0+082,220	0,00	54,64	55,36	309,98	44,54	45,44	209,47	0,00	0,00
	0,00	4,92	5,08	35,00	7,35	7,65	25,72	0,00	0,00
	0,00	59,56	60,44	344,98	51,89	53,08	235,19	0,00	0,00
	0,00	4,91	5,09	35,00	7,34	7,66	25,72	0,00	0,00
	0,00	64,47	65,53	379,98	59,24	60,74	260,92	0,00	0,00
	0,00	4,91	5,09	35,35	7,34	7,66	25,90	0,00	0,00
	0,00	69,38	70,62	415,33	66,57	68,40	286,81	0,00	0,00
	0,00	4,89	5,10	40,66	7,31	7,67	28,51	0,00	0,00
	0,00	74,28	75,71	455,99	73,89	76,07	315,32	0,00	0,00
	0,00	4,85	5,13	57,21	7,24	7,73	36,62	0,00	0,00
	0,00	79,12	80,85	513,20	81,13	83,80	351,95	0,00	0,00
	0,00	1,07	2,30	24,22	1,60	3,46	14,77	0,00	0,00
	0,00	80,19	83,15	537,42	82,72	87,26	366,71	0,00	0,00