

PROPUESTAS DE MEJORA

ANEJO 3 GEOMETRÍA

eje1

DATOS DE ENTRADA

<u>Al.</u>	<u>Tipo</u>	<u>Radio</u>	<u>Retrang.</u>	<u>AE/AS</u>	<u>X1/Y1</u>	<u>X2/Y2</u>
1	Fijo	Infinito			697.089,838 4.362.625,990	697.107,969 4.362.711,202
2	Móvil	-7,500		2,739 2,739		
3	Fijo	Infinito			697.096,490 4.362.720,271	697.053,066 4.362.714,901
4	Móvil	5,000		2,236 2,236		
5	Fijo	Infinito			697.042,621 4.362.719,260	697.043,780 4.362.733,546
6	Móvil	-10,000		5,000 5,000		
7	Fijo	Infinito			697.037,548 4.362.749,387	696.936,934 4.362.852,112
8	Móvil	-38,000		19,494 19,494		
9	Fijo	Infinito			696.899,455 4.362.866,214	696.872,153 4.362.864,336
10	Móvil	500,000		70,711 70,711		
11	Fijo	Infinito			696.865,307 4.362.864,137	696.747,104 4.362.863,896
12	Móvil	67,000		40,000 40,000		
13	Fijo	Infinito			696.705,289 4.362.881,043	696.689,449 4.362.899,968
14	Móvil	100,000		31,623 31,623		
15	Fijo	Infinito			696.670,887 4.362.929,588	696.664,401 4.362.945,570
16	Móvil	85,000		29,155 29,155		
17	Fijo	Infinito			696.657,962 4.362.972,876	696.656,883 4.362.988,822
18	Móvil	58,000		8,000 8,000		
19	Fijo	Infinito			696.665,225 4.363.023,125	696.670,780 4.363.030,014
20	Móvil	-50,000		8,500 8,500		
21	Fijo	Infinito			696.677,825 4.363.079,972	696.657,872 4.363.128,862
22	Móvil	50,000		40,000 40,000		
23	Fijo	Infinito			696.656,308 4.363.161,883	696.680,084 4.363.217,821
24	Móvil	-50,000		45,000 45,000		
25	Fijo	Infinito			696.659,066 4.363.284,345	696.601,237 4.363.339,176
26	Móvil	20,000		20,000 20,000		
27	Fijo	Infinito			696.612,598 4.363.374,329	696.623,889 4.363.375,926
28	Móvil	-55,000		15,000 15,000		
29	Fijo	Infinito			696.676,359 4.363.452,231	696.670,915 4.363.464,730
30	Móvil	-80,000		40,000 40,000		
31	Fijo	Infinito			696.622,641 4.363.511,336	696.594,641 4.363.527,781
32	Móvil	74,000		30,000 30,000		
33	Fijo	Infinito			696.543,858 4.363.573,750	696.535,119 4.363.590,028
34	Móvil	-110,000		39,000 39,000		
35	Fijo	Infinito			696.515,201 4.363.622,996	696.286,506 4.363.942,064
36	Móvil	80,000		50,000 50,000		
37	Fijo	Infinito			696.256,369 4.364.023,225	696.228,253 4.364.217,523
38	Móvil	-54,000		20,000 20,000		
39	Fijo	Infinito			696.202,550 4.364.262,554	696.183,328 4.364.275,221
40	Móvil	-57,000		36,986 36,986		

<u>Al.</u>	<u>Tipo</u>	<u>Radio</u>	<u>Retranq.</u>	<u>AE/AS</u>	<u>X1/Y1</u>	<u>X2/Y2</u>
41	Fijo	Infinito			696.139,605 4.364.289,482	696.101,588 4.364.292,169
42	Móvil	50,000		25,298 25,298		
43	Fijo	Infinito			696.070,484 4.364.300,882	696.040,641 4.364.316,516
44	Móvil	30,000		30,000 30,000		
45	Fijo	Infinito			696.021,431 4.364.355,409	696.024,431 4.364.370,743
46	Móvil	-56,000		33,466 33,466		
47	Fijo	Infinito			695.984,780 4.364.443,842	695.910,018 4.364.483,994
48	Móvil	67,000		55,000 55,000		
49	Fijo	Infinito			695.865,946 4.364.548,768	695.840,339 4.364.801,360
50	Móvil	-100,000		50,000 50,114		
51	Fijo	-21.858,406		50,114 40,000	695.820,286 4.364.859,873	695.611,876 4.365.212,176
52	Móvil	-151,000		40,000 40,000		
53	Fijo	Infinito			695.600,601 4.365.229,428	695.551,850 4.365.298,563
54	Móvil	151,000		50,000 50,000		
55	Fijo	Infinito			695.520,219 4.365.407,768	695.523,068 4.365.438,372
56	Móvil	100,000		16,384 14,142		
57	Fijo	Infinito			695.525,084 4.365.449,835	695.540,424 4.365.518,256
58	Móvil	-120,000		41,533 42,766		
59	Fijo	Infinito			695.542,654 4.365.575,534	695.538,269 4.365.603,321
60	Móvil	-180,000		19,878 18,974		
61	Fijo	Infinito			695.532,601 4.365.628,442	695.525,354 4.365.656,466
62	Móvil	125,000		35,355 35,355		
63	Fijo	Infinito			695.520,284 4.365.700,203	695.520,173 4.365.715,759
64	Móvil	-84,000		35,000 35,000		
65	Fijo	Infinito			695.508,170 4.365.784,894	695.503,559 4.365.800,002
66	Móvil	-57,000		20,000 20,000		
67	Fijo	-80,000		20,000 5,000	695.485,237 4.365.827,694	695.431,023 4.365.837,475
68	Móvil	-90,000		5,000 20,000		
69	Fijo	Infinito			695.411,416 4.365.833,575	695.368,200 4.365.823,793
70	Móvil	61,000		20,000 20,000		
71	Fijo	Infinito			695.327,994 4.365.830,631	695.300,661 4.365.852,852
72	Móvil	50,000		21,213 27,571		
73	Fijo	Infinito			695.278,357 4.365.900,857	695.276,548 4.365.952,584
74	Móvil	50,000		30,000 30,000		
75	Fijo	Infinito			695.309,845 4.366.010,958	695.331,265 4.366.024,605
76	Móvil	-50,000		27,634 25,100		
77	Fijo	Infinito			695.351,998 4.366.061,781	695.357,622 4.366.098,731
78	Móvil	-75,000		40,249 40,249		
79	Fijo	Infinito			695.356,162 4.366.150,068	695.354,018 4.366.159,860
80	Móvil	50,000		25,000 25,000		
81	Fijo	Infinito			695.364,932 4.366.210,922	695.369,710 4.366.216,256
82	Móvil	-70,000		18,708 18,708		
83	Fijo	Infinito			695.387,977 4.366.275,157	695.383,968 4.366.316,036
84	Móvil	-52,000		26,851 26,851		

<u>Al.</u>	<u>Tipo</u>	<u>Radio</u>	<u>Retranq.</u>	<u>AE/AS</u>	<u>X1/Y1</u>	<u>X2/Y2</u>
85	Fijo	Infinito			695.359,902 4.366.355,402	695.357,598 4.366.357,534
86	Móvil	76,800		7,146 20,679		
87	Fijo	Infinito			695.335,948 4.366.403,779	695.334,234 4.366.417,250
88	Móvil	-52,000		25,000 25,000		
89	Fijo	Infinito			695.309,881 4.366.457,334	695.293,412 4.366.463,729
90	Móvil	50,000		15,330 18,138		
91	Fijo	Infinito			695.268,943 4.366.482,300	695.215,387 4.366.557,745
92	Móvil	50,000		45,000 45,000		
93	Fijo	Infinito			695.207,185 4.366.612,096	695.237,386 4.366.688,898
94	Móvil	-55,000		30,577 35,951		
95	Fijo	Infinito			695.239,024 4.366.733,594	695.233,609 4.366.756,932

eje1

PUNTOS DEL EJE CADA 20 METROS

<u>Estación</u>	<u>Coor. X</u>	<u>Coor. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>
0+000	697.089,838	4.362.625,990	13,3466		
0+020	697.094,000	4.362.645,552	13,3466		
0+040	697.098,163	4.362.665,114	13,3466		
0+060	697.102,325	4.362.684,676	13,3466		
0+080	697.106,487	4.362.704,238	13,3466		
0+100	697.101,677	4.362.720,672	308,0784		
0+120	697.081,818	4.362.718,457	292,1671		
0+140	697.061,969	4.362.716,002	292,1671		
0+160	697.043,159	4.362.717,075	370,9578		
0+180	697.044,055	4.362.736,940	4,9002		
0+200	697.033,848	4.362.753,165	350,6609		
0+220	697.019,853	4.362.767,453	350,6609		
0+240	697.005,859	4.362.781,741	350,6609		
0+260	696.991,864	4.362.796,029	350,6609		
0+280	696.977,869	4.362.810,318	350,6609		
0+300	696.963,875	4.362.824,606	350,6609		
0+320	696.949,880	4.362.838,894	350,6609		
0+340	696.935,882	4.362.853,179	350,2548		
0+360	696.919,488	4.362.864,298	321,8427		
0+380	696.899,750	4.362.866,234	295,6630		
0+400	696.879,794	4.362.864,909	296,4205		
0+420	696.859,808	4.362.864,184	298,9670		
0+440	696.839,808	4.362.864,085	299,8702		
0+460	696.819,809	4.362.864,044	299,8702		
0+480	696.799,809	4.362.864,003	299,8702		
0+500	696.779,809	4.362.863,963	299,8702		
0+520	696.759,809	4.362.863,926	300,0933		
0+540	696.739,874	4.362.865,204	310,7161		
0+560	696.720,944	4.362.871,425	329,7140		
0+580	696.704,673	4.362.882,930	348,2854		
0+600	696.691,286	4.362.897,773	355,6345		
0+620	696.679,158	4.362.913,654	363,9454		
0+640	696.670,130	4.362.931,467	375,1544		
0+660	696.662,727	4.362.950,046	378,3314		
0+680	696.658,301	4.362.969,503	393,1406		
0+700	696.656,853	4.362.989,449	396,9903		
0+720	696.659,337	4.363.009,194	18,9427		
0+740	696.668,350	4.363.026,938	40,8951		
0+760	696.678,567	4.363.044,004	22,1124		
0+780	696.681,483	4.363.063,656	396,6477		
0+800	696.676,616	4.363.082,935	375,3318		
0+820	696.669,059	4.363.101,452	375,3318		
0+840	696.661,539	4.363.119,984	376,3921		
0+860	696.655,955	4.363.139,147	390,1591		
0+880	696.656,681	4.363.159,011	13,9646		
0+900	696.663,130	4.363.177,914	25,2403		
0+920	696.670,947	4.363.196,323	25,5861		
0+940	696.678,436	4.363.214,864	21,3803		
0+960	696.682,830	4.363.234,317	4,8079		
0+980	696.680,441	4.363.254,041	379,6129		
1+000	696.670,822	4.363.271,464	358,0039		
1+020	696.657,210	4.363.286,092	348,6742		
1+040	696.642,703	4.363.299,859	348,3063		
1+060	696.628,190	4.363.313,620	348,3063		
1+080	696.613,677	4.363.327,381	348,3063		
1+100	696.599,917	4.363.341,835	362,8088		
1+120	696.597,395	4.363.360,891	23,1084		
1+140	696.611,875	4.363.373,613	80,8108		
1+160	696.631,564	4.363.377,012	91,0062		
1+180	696.650,585	4.363.382,842	69,5928		
1+200	696.666,305	4.363.395,028	46,4430		
1+220	696.676,662	4.363.412,008	23,2932		
1+240	696.680,303	4.363.431,562	0,1434		
1+260	696.676,750	4.363.451,133	376,9936		
1+280	696.668,547	4.363.469,366	369,6470		
1+300	696.657,393	4.363.485,906	354,3260		
1+320	696.642,511	4.363.499,191	338,7640		
1+340	696.625,481	4.363.509,668	333,8074		
1+360	696.608,236	4.363.519,797	333,8074		
1+380	696.590,990	4.363.529,925	333,8074		
1+400	696.573,776	4.363.540,106	335,4833		
1+420	696.558,249	4.363.552,620	351,7038		
1+440	696.546,564	4.363.568,784	367,4603		
1+460	696.537,073	4.363.586,388	368,6338		
1+480	696.527,587	4.363.603,995	367,7547		
1+500	696.516,773	4.363.620,802	360,4602		

<u>Estación</u>	<u>Coor. X</u>	<u>Coor. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>
1+520	696.505,122	4.363.637,058	360,4095		
1+540	696.493,470	4.363.653,314	360,4095		
1+560	696.481,819	4.363.669,570	360,4095		
1+580	696.470,168	4.363.685,825	360,4095		
1+600	696.458,516	4.363.702,081	360,4095		
1+620	696.446,865	4.363.718,336	360,4095		
1+640	696.435,214	4.363.734,592	360,4095		
1+660	696.423,562	4.363.750,848	360,4095		
1+680	696.411,911	4.363.767,103	360,4095		
1+700	696.400,259	4.363.783,359	360,4095		
1+720	696.388,608	4.363.799,615	360,4095		
1+740	696.376,957	4.363.815,870	360,4095		
1+760	696.365,305	4.363.832,126	360,4095		
1+780	696.353,654	4.363.848,381	360,4095		
1+800	696.342,003	4.363.864,637	360,4095		
1+820	696.330,351	4.363.880,893	360,4095		
1+840	696.318,700	4.363.897,148	360,4095		
1+860	696.307,048	4.363.913,404	360,4095		
1+880	696.295,397	4.363.929,660	360,4095		
1+900	696.283,746	4.363.945,915	360,4117		
1+920	696.272,563	4.363.962,489	365,7132		
1+940	696.264,192	4.363.980,604	380,0733		
1+960	696.259,768	4.364.000,088	389,7981		
1+980	696.256,854	4.364.019,875	390,8513		
2+000	696.253,990	4.364.039,669	390,8513		
2+020	696.251,125	4.364.059,462	390,8513		
2+040	696.248,261	4.364.079,256	390,8513		
2+060	696.245,397	4.364.099,050	390,8513		
2+080	696.242,532	4.364.118,844	390,8513		
2+100	696.239,668	4.364.138,638	390,8513		
2+120	696.236,804	4.364.158,432	390,8513		
2+140	696.233,940	4.364.178,225	390,8513		
2+160	696.231,075	4.364.198,019	390,8513		
2+180	696.228,211	4.364.217,813	390,8513		
2+200	696.223,737	4.364.237,241	375,2990		
2+220	696.212,952	4.364.253,949	351,7205		
2+240	696.197,148	4.364.266,114	337,0936		
2+260	696.180,417	4.364.277,072	335,7056		
2+280	696.162,512	4.364.285,854	319,5320		
2+300	696.142,843	4.364.289,233	305,1872		
2+320	696.122,895	4.364.290,663	304,4921		
2+340	696.102,944	4.364.292,073	304,4921		
2+360	696.083,239	4.364.295,122	320,2071		
2+380	696.065,180	4.364.303,661	330,7210		
2+400	696.047,466	4.364.312,946	331,0404		
2+420	696.030,963	4.364.324,116	349,4391		
2+440	696.021,786	4.364.341,495	389,4139		
2+460	696.022,629	4.364.361,377	11,2539		
2+480	696.026,018	4.364.381,081	6,5579		
2+500	696.024,785	4.364.400,941	384,7729		
2+520	696.016,713	4.364.419,124	362,0365		
2+540	696.002,797	4.364.433,341	339,5609		
2+560	695.985,546	4.364.443,431	331,3763		
2+580	695.967,926	4.364.452,894	331,3763		
2+600	695.950,306	4.364.462,357	331,3763		
2+620	695.932,687	4.364.471,819	331,3763		
2+640	695.915,081	4.364.481,307	332,0514		
2+660	695.898,061	4.364.491,788	339,6318		
2+680	695.883,291	4.364.505,196	355,5442		
2+700	695.872,892	4.364.522,192	374,4790		
2+720	695.867,335	4.364.541,364	388,1973		
2+740	695.864,688	4.364.561,182	393,4974		
2+760	695.862,670	4.364.581,080	393,5681		
2+780	695.860,653	4.364.600,978	393,5681		
2+800	695.858,636	4.364.620,876	393,5681		
2+820	695.856,619	4.364.640,774	393,5681		
2+840	695.854,601	4.364.660,672	393,5681		
2+860	695.852,584	4.364.680,570	393,5681		
2+880	695.850,567	4.364.700,468	393,5681		
2+900	695.848,550	4.364.720,366	393,5681		
2+920	695.846,533	4.364.740,265	393,5681		
2+940	695.844,515	4.364.760,163	393,5681		
2+960	695.842,498	4.364.780,061	393,5681		
2+980	695.840,478	4.364.799,958	393,4064		
3+000	695.837,600	4.364.819,740	386,4982		
3+020	695.831,477	4.364.838,744	373,8116		
3+040	695.822,248	4.364.856,476	366,7786		
3+060	695.812,225	4.364.873,783	366,5414		
3+080	695.802,183	4.364.891,080	366,4832		
3+100	695.792,125	4.364.908,367	366,4249		
3+120	695.782,052	4.364.925,644	366,3667		
3+140	695.771,962	4.364.942,913	366,3084		
3+160	695.761,857	4.364.960,172	366,2502		
3+180	695.751,736	4.364.977,422	366,1919		
3+200	695.741,599	4.364.994,663	366,1337		
3+220	695.731,447	4.365.011,895	366,0754		
3+240	695.721,279	4.365.029,117	366,0172		
3+260	695.711,095	4.365.046,330	365,9589		

<u>Estación</u>	<u>Coor. X</u>	<u>Coor. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>
3+280	695.700,895	4.365.063,533	365,9007		
3+300	695.690,679	4.365.080,728	365,8424		
3+320	695.680,448	4.365.097,913	365,7842		
3+340	695.670,201	4.365.115,088	365,7259		
3+360	695.659,938	4.365.132,254	365,6677		
3+380	695.649,660	4.365.149,411	365,6094		
3+400	695.639,366	4.365.166,558	365,5512		
3+420	695.629,056	4.365.183,696	365,4929		
3+440	695.618,731	4.365.200,825	365,4347		
3+460	695.608,359	4.365.217,925	364,4043		
3+480	695.597,072	4.365.234,432	360,9002		
3+500	695.585,546	4.365.250,777	360,9002		
3+520	695.574,021	4.365.267,122	360,9002		
3+540	695.562,495	4.365.283,467	360,9002		
3+560	695.550,969	4.365.299,812	360,9282		
3+580	695.539,987	4.365.316,519	366,4674		
3+600	695.531,105	4.365.334,422	374,8994		
3+620	695.524,666	4.365.353,342	383,3315		
3+640	695.520,782	4.365.372,946	391,7635		
3+660	695.519,520	4.365.392,892	0,1956		
3+680	695.520,693	4.365.412,850	5,8667		
3+700	695.522,546	4.365.432,764	5,9094		
3+720	695.525,680	4.365.452,493	14,0408		
3+740	695.530,055	4.365.472,009	14,0408		
3+760	695.534,431	4.365.491,524	14,0408		
3+780	695.538,806	4.365.511,040	14,0408		
3+800	695.542,997	4.365.530,594	11,1603		
3+820	695.544,852	4.365.550,485	0,6153		
3+840	695.543,422	4.365.570,413	391,0312		
3+860	695.540,344	4.365.590,175	390,0358		
3+880	695.537,088	4.365.609,907	387,5371		
3+900	695.532,369	4.365.629,338	383,8900		
3+920	695.527,362	4.365.648,701	383,8900		
3+940	695.522,629	4.365.668,130	387,9076		
3+960	695.520,436	4.365.687,988	397,9759		
3+980	695.520,228	4.365.707,986	399,5457		
4+000	695.520,085	4.365.727,986	399,5059		
4+020	695.518,683	4.365.747,910	388,9762		
4+040	695.513,561	4.365.767,229	381,1419		
4+060	695.507,723	4.365.786,358	381,1419		
4+080	695.501,317	4.365.805,285	372,1576		
4+100	695.489,872	4.365.821,562	349,8200		
4+120	695.473,531	4.365.832,914	327,4825		
4+140	695.454,303	4.365.838,102	307,5847		
4+160	695.434,346	4.365.838,159	293,0709		
4+180	695.414,730	4.365.834,325	285,8288		
4+200	695.395,224	4.365.829,910	285,8288		
4+220	695.375,717	4.365.825,495	285,8288		
4+240	695.355,911	4.365.823,307	303,0169		
4+260	695.336,443	4.365.827,484	323,8897		
4+280	695.319,333	4.365.837,676	343,1289		
4+300	695.303,813	4.365.850,290	343,4558		
4+320	695.289,247	4.365.863,916	358,0999		
4+340	695.280,459	4.365.881,734	383,5647		
4+360	695.278,332	4.365.901,573	397,7745		
4+380	695.277,633	4.365.921,561	397,7745		
4+400	695.276,934	4.365.941,549	397,7745		
4+420	695.276,438	4.365.961,540	1,5327		
4+440	695.280,297	4.365.981,042	24,9050		
4+460	695.291,371	4.365.997,537	50,3698		
4+480	695.307,415	4.366.009,410	63,8869		
4+500	695.324,281	4.366.020,158	63,6727		
4+520	695.339,723	4.366.032,744	45,2586		
4+540	695.349,437	4.366.050,074	19,7938		
4+560	695.353,202	4.366.069,693	9,6159		
4+580	695.356,212	4.366.089,466	9,6159		
4+600	695.359,154	4.366.109,248	8,1228		
4+620	695.359,842	4.366.129,194	394,4365		
4+640	695.356,421	4.366.148,885	386,2803		
4+660	695.352,315	4.366.168,456	390,1185		
4+680	695.352,987	4.366.188,314	14,8418		
4+700	695.361,325	4.366.206,347	40,2092		
4+720	695.374,225	4.366.221,621	41,6756		
4+740	695.383,987	4.366.238,999	23,4865		
4+760	695.388,454	4.366.258,424	5,2973		
4+780	695.387,662	4.366.278,372	393,7766		
4+800	695.385,710	4.366.298,277	393,7766		
4+820	695.383,527	4.366.318,154	389,3505		
4+840	695.376,712	4.366.336,828	365,5204		
4+860	695.363,682	4.366.351,903	347,6494		
4+880	695.350,112	4.366.366,536	360,2306		
4+900	695.340,647	4.366.384,090	376,8092		
4+920	695.335,986	4.366.403,485	391,8625		
4+940	695.333,141	4.366.423,276	386,1399		
4+960	695.325,243	4.366.441,516	361,7467		
4+980	695.311,079	4.366.455,462	337,2613		
5+000	695.292,993	4.366.463,893	323,7519		
5+020	695.276,025	4.366.474,239	347,4889		

<u>Estación</u>	<u>Coor. X</u>	<u>Coor. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>
5+040	695.263,587	4.366.489,844	360,7003		
5+060	695.252,010	4.366.506,153	360,7003		
5+080	695.240,433	4.366.522,462	360,7003		
5+100	695.228,856	4.366.538,770	360,7003		
5+120	695.217,390	4.366.555,156	362,8825		
5+140	695.207,962	4.366.572,750	376,5784		
5+160	695.204,325	4.366.592,290	0,7736		
5+180	695.207,668	4.366.611,942	18,5779		
5+200	695.214,512	4.366.630,728	23,8515		
5+220	695.221,831	4.366.649,340	23,8515		
5+240	695.229,150	4.366.667,953	23,8515		
5+260	695.236,465	4.366.686,567	23,5727		
5+280	695.241,787	4.366.705,783	7,2277		
5+300	695.240,707	4.366.725,675	388,2182		
5+312	695.238,142	4.366.737,396	385,4857		

eje1

PUNTOS SINGULARES

<u>Estación</u>	<u>Longitud</u>	<u>Coord. X</u>	<u>Coord. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>	<u>X Centro</u>	<u>Y Centro</u>
0+000,000	0,000	697.089,838	4.362.625,990	13,3466	Infinito			
0+087,098	87,098	697.107,965	4.362.711,181	13,3466	Infinito			
0+088,099	1,000	697.108,151	4.362.712,164	9,1013	-7,500	2,739	697.100,727	4.362.713,232
0+101,374	13,276	697.100,305	4.362.720,720	296,4124	-7,500		697.100,727	4.362.713,232
0+102,375	1,000	697.099,310	4.362.720,620	292,1671	Infinito	2,739		
0+153,312	50,937	697.048,758	4.362.714,368	292,1671	Infinito			
0+154,312	1,000	697.047,762	4.362.714,279	298,5329	5,000	2,236	697.047,647	4.362.719,277
0+162,186	7,874	697.042,648	4.362.719,182	398,7877	5,000		697.047,647	4.362.719,277
0+163,186	1,000	697.042,696	4.362.720,181	5,1535	Infinito	2,236		
0+179,554	16,368	697.044,019	4.362.736,495	5,1535	Infinito			
0+182,054	2,500	697.044,117	4.362.738,992	397,1958	-10,000	5,000	697.034,127	4.362.738,551
0+188,114	6,060	697.042,088	4.362.744,603	358,6186	-10,000		697.034,127	4.362.738,551
0+190,614	2,500	697.040,416	4.362.746,459	350,6609	Infinito	5,000		
0+337,798	147,184	696.937,426	4.362.851,609	350,6609	Infinito			
0+347,799	10,000	696.930,128	4.362.858,435	342,2840	-38,000	19,494	696.906,704	4.362.828,513
0+370,648	22,849	696.909,093	4.362.866,438	304,0048	-38,000		696.906,704	4.362.828,513
0+380,648	10,000	696.899,103	4.362.866,190	295,6278	Infinito	19,494		
0+388,774	8,126	696.890,996	4.362.865,632	295,6278	Infinito			
0+398,774	10,000	696.881,017	4.362.864,979	296,2644	500,000	70,711	696.851,695	4.363.364,119
0+422,094	23,319	696.857,714	4.362.864,155	299,2336	500,000		696.851,695	4.363.364,119
0+432,094	10,000	696.847,715	4.362.864,101	299,8702	Infinito	70,711		
0+516,651	84,557	696.763,158	4.362.863,929	299,8702	Infinito			
0+540,532	23,881	696.739,350	4.362.865,296	311,2156	67,000	40,000	696.751,093	4.362.931,259
0+575,339	34,808	696.708,151	4.362.879,829	344,2891	67,000		696.751,093	4.362.931,259
0+599,220	23,881	696.691,787	4.362.897,175	355,6345	Infinito	40,000		
0+601,945	2,725	696.690,038	4.362.899,265	355,6345	Infinito			
0+611,945	10,000	696.683,749	4.362.907,038	358,8177	100,000	31,623	696.763,545	4.362.967,309
0+633,082	21,137	696.672,880	4.362.925,120	372,2737	100,000		696.763,545	4.362.967,309
0+643,082	10,000	696.668,966	4.362.934,322	375,4568	Infinito	31,623		
0+651,239	8,156	696.665,899	4.362.941,879	375,4568	Infinito			
0+661,239	10,000	696.662,321	4.362.951,216	379,2017	85,000	29,155	696.742,825	4.362.978,494
0+678,265	17,026	696.658,503	4.362.967,780	391,9539	85,000		696.742,825	4.362.978,494
0+688,265	10,000	696.657,633	4.362.977,740	395,6988	Infinito	29,155		
0+698,272	10,006	696.656,957	4.362.987,724	395,6988	Infinito			
0+699,375	1,103	696.656,886	4.362.988,825	396,3044	58,000	8,000	696.714,789	4.362.992,190
0+741,549	42,174	696.669,294	4.363.028,166	42,5958	58,000		696.714,789	4.362.992,190
0+742,653	1,103	696.669,984	4.363.029,027	43,2014	Infinito	8,000		
0+742,714	0,061	696.670,023	4.363.029,075	43,2014	Infinito			
0+744,159	1,445	696.670,924	4.363.030,204	42,2815	-50,000	8,500	696.631,552	4.363.061,024
0+796,019	51,860	696.678,114	4.363.079,246	376,2517	-50,000		696.631,552	4.363.061,024
0+797,464	1,445	696.677,574	4.363.080,587	375,3318	Infinito	8,500		
0+832,700	35,236	696.664,260	4.363.113,210	375,3318	Infinito			
0+864,700	32,000	696.655,429	4.363.143,816	395,7036	50,000	40,000	696.705,315	4.363.147,188
0+872,169	7,470	696.655,483	4.363.151,279	5,2143	50,000		696.705,315	4.363.147,188
0+904,169	32,000	696.664,754	4.363.181,754	25,5861	Infinito	40,000		
0+923,643	19,473	696.672,371	4.363.199,676	25,5861	Infinito			
0+964,143	40,500	696.682,983	4.363.238,456	399,8030	-50,000	45,000	696.632,983	4.363.238,301
0+984,338	20,195	696.678,899	4.363.258,094	374,0894	-50,000		696.632,983	4.363.238,301
1+024,838	40,500	696.653,706	4.363.289,427	348,3063	Infinito	45,000		
1+086,500	61,662	696.608,960	4.363.331,854	348,3063	Infinito			
1+106,500	20,000	696.597,058	4.363.347,651	380,1373	20,000	20,000	696.616,092	4.363.353,790
1+131,346	24,846	696.604,140	4.363.369,826	59,2240	20,000		696.616,092	4.363.353,790
1+151,346	20,000	696.622,995	4.363.375,800	91,0550	Infinito	20,000		
1+159,413	8,067	696.630,982	4.363.376,929	91,0550	Infinito			
1+163,503	4,091	696.635,025	4.363.377,552	88,6874	-55,000	15,000	696.625,303	4.363.431,686
1+260,671	97,168	696.676,509	4.363.451,759	376,2167	-55,000		696.625,303	4.363.431,686
1+264,762	4,091	696.674,922	4.363.455,529	373,8491	Infinito	15,000		
1+265,466	0,704	696.674,641	4.363.456,175	373,8491	Infinito			
1+285,466	20,000	696.665,904	4.363.474,150	365,8914	-80,000	40,000	696.597,114	4.363.433,309
1+315,784	30,318	696.645,913	4.363.496,702	341,7651	-80,000		696.597,114	4.363.433,309
1+335,784	20,000	696.629,116	4.363.507,533	333,8074	Infinito	40,000		
1+393,116	57,332	696.579,680	4.363.536,568	333,8074	Infinito			
1+405,278	12,162	696.569,369	4.363.543,010	339,0389	74,000	30,000	696.611,956	4.363.603,527
1+433,598	28,320	696.549,851	4.363.563,291	363,4023	74,000		696.611,956	4.363.603,527
1+445,760	12,162	696.543,809	4.363.573,842	368,6338	Infinito	30,000		
1+473,519	27,758	696.530,679	4.363.598,299	368,6338	Infinito			
1+487,346	13,827	696.523,886	4.363.610,340	364,6326	-110,000	39,000	696.430,429	4.363.552,325
1+487,729	0,383	696.523,683	4.363.610,665	364,4108	-110,000		696.430,429	4.363.552,325
1+501,557	13,827	696.515,866	4.363.622,068	360,4095	Infinito	39,000		
1+899,590	398,034	696.283,984	4.363.945,582	360,4095	Infinito			
1+930,840	31,250	696.267,497	4.363.972,067	372,8435	80,000	50,000	696.340,329	4.364.005,167
1+937,845	7,004	696.264,882	4.363.978,562	378,4173	80,000		696.340,329	4.364.005,167
1+969,095	31,250	696.258,416	4.364.009,082	390,8513	Infinito	50,000		
2+183,104	214,010	696.227,766	4.364.220,885	390,8513	Infinito			
2+190,512	7,407	696.226,539	4.364.228,189	386,4849	-54,000	20,000	696.173,751	4.364.216,811
2+228,703	38,191	696.206,485	4.364.259,758	341,4600	-54,000		696.173,751	4.364.216,811

<u>Estación</u>	<u>Longitud</u>	<u>Coord. X</u>	<u>Coord. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>	<u>X Centro</u>	<u>Y Centro</u>
2+236,111	7,407	696.200,396	4.364.263,974	337,0936	Infinito	20,000		
2+252,276	16,166	696.186,897	4.364.272,869	337,0936	Infinito			
2+276,276	23,999	696.166,023	4.364.284,614	323,6915	-57,000	36,986	696.145,297	4.364.231,516
2+281,466	5,191	696.161,108	4.364.286,279	317,8943	-57,000		696.145,297	4.364.231,516
2+305,466	23,999	696.137,393	4.364.289,638	304,4921	Infinito	36,986		
2+341,258	35,792	696.101,690	4.364.292,162	304,4921	Infinito			
2+354,057	12,800	696.088,981	4.364.293,607	312,6407	50,000	25,298	696.098,844	4.364.342,624
2+361,858	7,800	696.081,485	4.364.295,735	322,5724	50,000		696.098,844	4.364.342,624
2+374,657	12,800	696.069,912	4.364.301,181	330,7210	Infinito	25,298		
2+396,995	22,337	696.050,126	4.364.311,547	330,7210	Infinito			
2+426,995	30,000	696.026,487	4.364.329,475	362,5520	30,000	30,000	696.051,445	4.364.346,122
2+435,438	8,443	696.022,846	4.364.337,062	380,4687	30,000		696.051,445	4.364.346,122
2+465,438	30,000	696.023,644	4.364.366,719	12,2997	Infinito	30,000		
2+465,786	0,349	696.023,711	4.364.367,061	12,2997	Infinito			
2+485,786	20,000	696.026,373	4.364.386,854	0,9318	-56,000	33,466	695.970,379	4.364.387,674
2+536,970	51,184	696.005,217	4.364.431,518	342,7442	-56,000		695.970,379	4.364.387,674
2+556,970	20,000	695.988,215	4.364.441,997	331,3763	Infinito	33,466		
2+631,990	75,020	695.922,124	4.364.477,493	331,3763	Infinito			
2+677,139	45,149	695.885,177	4.364.503,045	352,8262	67,000	55,000	695.934,609	4.364.548,272
2+697,443	20,304	695.873,933	4.364.519,857	372,1182	67,000		695.934,609	4.364.548,272
2+742,592	45,149	695.864,426	4.364.563,761	393,5681	Infinito	55,000		
2+976,434	233,844	695.840,841	4.364.796,413	393,5681	Infinito			
3+001,436	25,000	695.837,288	4.364.821,141	385,6104	-100,000	50,000	695.739,831	4.364.798,730
3+018,758	17,322	695.831,967	4.364.837,603	374,5826	-100,000		695.739,831	4.364.798,730
3+043,757	24,999	695.820,369	4.364.859,730	366,5887-21,858,406		50,114	676.903,828	4.353.907,361
3+453,010	409,252	695.612,006	4.365.211,961	365,3968-21,858,406			676.903,828	4.353.907,361
3+463,532	10,523	695.606,458	4.365.220,903	363,1632	-151,000	40,000	695.480,039	4.365.138,324
3+463,602	0,070	695.606,420	4.365.220,961	363,1338	-151,000		695.480,039	4.365.138,324
3+474,198	10,596	695.600,416	4.365.229,691	360,9002	Infinito	40,000		
3+558,517	84,319	695.551,824	4.365.298,600	360,9002	Infinito			
3+575,073	16,556	695.542,533	4.365.312,301	364,3903	151,000	50,000	695.670,520	4.365.392,428
3+665,274	90,201	695.519,629	4.365.398,165	2,4193	151,000		695.670,520	4.365.392,428
3+681,831	16,556	695.520,862	4.365.414,673	5,9094	Infinito	50,000		
3+702,149	20,318	695.522,745	4.365.434,904	5,9094	Infinito			
3+704,834	2,684	695.523,006	4.365.437,576	6,7639	100,000	16,384	695.622,442	4.365.426,971
3+715,264	10,431	695.524,650	4.365.447,871	13,4042	100,000		695.622,442	4.365.426,971
3+717,264	2,000	695.525,082	4.365.449,824	14,0408	Infinito	14,142		
3+787,506	70,242	695.540,448	4.365.518,364	14,0408	Infinito			
3+801,881	14,375	695.543,312	4.365.532,449	10,2278	-120,000	41,533	695.424,857	4.365.551,645
3+832,321	30,440	695.544,339	4.365.562,790	394,0787	-120,000		695.424,857	4.365.551,645
3+847,562	15,241	695.542,282	4.365.577,889	390,0358	Infinito	42,766		
3+871,837	24,275	695.538,498	4.365.601,867	390,0358	Infinito			
3+874,033	2,195	695.538,152	4.365.604,035	389,6476	-180,000	19,878	695.360,526	4.365.574,893
3+889,312	15,279	695.535,041	4.365.618,990	384,2436	-180,000		695.360,526	4.365.574,893
3+891,312	2,000	695.534,544	4.365.620,927	383,8900	Infinito	18,974		
3+927,112	35,799	695.525,581	4.365.655,586	383,8900	Infinito			
3+937,111	10,000	695.523,207	4.365.665,300	386,4364	125,000	35,355	695.645,381	4.365.691,731
3+957,852	20,740	695.520,520	4.365.685,841	396,9993	125,000		695.645,381	4.365.691,731
3+967,851	10,000	695.520,315	4.365.695,838	399,5457	Infinito	35,355		
3+998,762	30,911	695.520,095	4.365.726,748	399,5457	Infinito			
4+013,345	14,583	695.519,569	4.365.741,317	394,0195	-84,000	35,000	695.435,939	4.365.733,437
4+023,045	9,700	695.518,104	4.365.750,900	386,6681	-84,000		695.435,939	4.365.733,437
4+037,629	14,583	695.514,254	4.365.764,961	381,1419	Infinito	35,000		
4+068,447	30,818	695.505,257	4.365.794,437	381,1419	Infinito			
4+075,465	7,018	695.503,072	4.365.801,104	377,2230	-57,000	20,000	695.449,681	4.365.781,143
4+131,393	55,929	695.462,777	4.365.836,619	314,7575	-57,000		695.449,681	4.365.781,143
4+133,411	2,018	695.460,806	4.365.837,051	312,8281	-80,000	20,000	695.444,795	4.365.758,669
4+144,129	10,718	695.450,192	4.365.838,487	304,2986	-80,000		695.444,795	4.365.758,669
4+144,164	0,035	695.450,158	4.365.838,489	304,2725	-90,000	5,000	695.444,122	4.365.748,692
4+168,016	23,852	695.426,426	4.365.836,935	287,4007	-90,000		695.444,122	4.365.748,692
4+172,460	4,444	695.422,084	4.365.835,990	285,8288	Infinito	20,000		
4+220,252	47,791	695.375,471	4.365.825,439	285,8288	Infinito			
4+226,809	6,557	695.369,052	4.365.824,106	289,2506	61,000	20,000	695.358,801	4.365.884,239
4+275,469	48,660	695.322,919	4.365.834,908	340,0340	61,000		695.358,801	4.365.884,239
4+282,027	6,557	695.317,759	4.365.838,952	343,4558	Infinito	20,000		
4+303,999	21,972	695.300,710	4.365.852,812	343,4558	Infinito			
4+312,998	9,000	695.293,903	4.365.858,694	349,1852	50,000	21,213	695.328,802	4.365.894,499
4+343,559	30,560	695.279,674	4.365.885,204	388,0959	50,000		695.328,802	4.365.894,499
4+358,762	15,203	695.278,375	4.365.900,336	397,7745	Infinito	27,571		
4+409,692	50,930	695.276,595	4.365.951,235	397,7745	Infinito			
4+427,692	18,000	695.277,045	4.365.969,203	9,2337	50,000	30,000	695.326,520	4.365.961,976
4+461,616	33,925	695.292,538	4.365.998,654	52,4277	50,000		695.326,520	4.365.961,976
4+479,616	18,000	695.307,091	4.366.009,203	63,8869	Infinito	30,000		
4+497,733	18,117	695.322,370	4.366.018,938	63,8869	Infinito			
4+513,006	15,273	695.334,804	4.366.027,780	54,1639	-50,000	27,634	695.301,835	4.366.065,370
4+541,694	28,688	695.349,928	4.366.051,695	17,6374	-50,000		695.301,835	4.366.065,370
4+554,294	12,600	695.352,344	4.366.064,052	9,6159	Infinito	25,100		
4+591,283	36,989	695.357,909	4.366.100,620	9,6159	Infinito			
4+612,883	21,600	695.360,129	4.366.122,085	0,4487	-75,000	40,249	695.285,131	4.366.122,614
4+618,778	5,895	695.359,939	4.366.127,976	395,4447	-75,000		695.285,131	4.366.122,614
4+640,377	21,600	695.356,340	4.366.149,253	386,2775	Infinito	40,249		
4+651,316	10,938	695.354,001	4.366.159,938	386,2775	Infinito			
4+663,816	12,500	695.351,840	4.366.172,241	394,2352	50,000	25,000	695.401,635	4.366.176,763
4+698,617	34,801	695.360,523	4.366.205,220	38,5454	50,000		695.401,635	4.366.176,763
4+711,117	12,500	695.368,463	4.366.214,864	46,5031	Infinito	25,000		
4+712,192	1,075	695.369,180	4.366.215,664	46,5031	Infinito			
4+717,192	5,000	695.372,471	4.366.219,428	44,2295	-70,000	18,708	695.318,697	4.366.264,242
4+770,168	52,976	695.388,562	4.366.268,582	396,0501	-70,000		695.318,697	4.366.264,242

<u>Estación</u>	<u>Longitud</u>	<u>Coord. X</u>	<u>Coord. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>	<u>X Centro</u>	<u>Y Centro</u>
4+775,168	5,000	695.388,133	4.366.273,563	393,7766	Infinito	18,708		
4+809,987	34,820	695.384,735	4.366.308,217	393,7766	Infinito			
4+823,852	13,865	695.382,772	4.366.321,931	385,2894	-52,000	26,851	695.332,154	4.366.310,022
4+847,760	23,908	695.372,231	4.366.343,155	356,0200	-52,000		695.332,154	4.366.310,022
4+861,625	13,865	695.362,490	4.366.353,007	347,5328	Infinito	26,851		
4+864,349	2,724	695.360,491	4.366.354,857	347,5328	Infinito			
4+865,014	0,665	695.360,003	4.366.355,310	347,8084	76,800	7,146	695.412,408	4.366.411,452
4+915,473	50,459	695.336,623	4.366.399,004	389,6354	76,800		695.412,408	4.366.411,452
4+921,041	5,568	695.335,854	4.366.404,518	391,9432	Infinito	20,679		
4+929,325	8,284	695.334,808	4.366.412,736	391,9432	Infinito			
4+941,345	12,019	695.332,834	4.366.424,585	384,5858	-52,000	25,000	695.282,351	4.366.412,117
4+985,166	43,821	695.306,638	4.366.458,097	330,9368	-52,000		695.282,351	4.366.412,117
4+997,185	12,019	695.295,616	4.366.462,873	323,5794	Infinito	25,000		
4+998,871	1,686	695.294,044	4.366.463,484	323,5794	Infinito			
5+003,572	4,700	695.289,690	4.366.465,253	326,5716	50,000	15,330	695.309,959	4.366.510,961
5+027,086	23,515	695.271,178	4.366.479,400	356,5115	50,000		695.309,959	4.366.510,961
5+033,666	6,580	695.267,254	4.366.484,680	360,7003	Infinito	18,138		
5+108,218	74,551	695.224,100	4.366.545,471	360,7003	Infinito			
5+148,718	40,500	695.205,444	4.366.581,087	386,4834	50,000	45,000	695.254,321	4.366.591,623
5+157,816	9,099	695.204,345	4.366.590,106	398,0684	50,000		695.254,321	4.366.591,623
5+198,316	40,500	695.213,895	4.366.629,161	23,8515	Infinito	45,000		
5+257,138	58,822	695.235,422	4.366.683,903	23,8515	Infinito			
5+274,138	16,999	695.240,814	4.366.700,005	14,0133	-55,000	30,577	695.187,141	4.366.712,014
5+287,034	12,896	695.242,136	4.366.712,804	399,0859	-55,000		695.187,141	4.366.712,014
5+310,534	23,500	695.238,473	4.366.735,968	385,4857	Infinito	35,951		

ANEJO DE LA GEOMETRÍA DE LA PROPUESTA DE MEJORA

Datos geométricos del trazado en planta obtenidos con el programa “Clip”

Alineación	P.K. final (m)	Longitud (m)	X inicial	Y inicial	Acimut (gonios)	X final	Y final	Radio (m)
1 RE	0.000	0.000	697089.838	4362625.990	13.3466	697089.838	4362625.990	0.000
2 RE	87.098	87.098	697107.965	4362711.181	13.3466	697107.965	4362711.181	0.000
3 CL	88.099	1.000	697108.151	4362712.164	9.1013	697107.965	4362711.181	2.739
4 CI	101.374	13.276	697100.305	4362720.720	296.4124	697100.727	4362713.232	-7.500
5 CL	102.375	1.000	697099.310	4362720.620	292.1671	697099.310	4362720.620	2.739
6 RE	153.312	50.937	697048.758	4362714.368	292.1671	697048.758	4362714.368	0.000
7 CL	154.312	1.000	697047.762	4362714.279	298.5329	697048.758	4362714.368	2.236
8 CI	162.186	7.874	697042.648	4362719.182	398.7877	697047.647	4362719.277	5.000
9 CL	163.186	1.000	697042.696	4362720.181	5.1535	697042.696	4362720.181	2.236
10 RE	179.554	16.368	697044.019	4362736.495	5.1535	697044.019	4362736.495	0.000
11 CL	182.054	2.500	697044.117	4362738.992	397.1958	697044.019	4362736.495	5.000
12 CI	188.114	6.060	697042.088	4362744.603	358.6186	697034.127	4362738.551	-10.000
13 CL	190.614	2.500	697040.416	4362746.459	350.6609	697040.416	4362746.459	5.000
14 RE	337.798	147.184	696937.426	4362851.609	350.6609	696937.426	4362851.609	0.000
15 CL	347.799	10.000	696930.128	4362858.435	342.2840	696937.426	4362851.609	19.494
16 CI	370.648	22.849	696909.093	4362866.438	304.0048	696906.704	4362828.513	-38.000
17 CL	380.648	10.000	696899.103	4362866.190	295.6278	696899.103	4362866.190	19.494
18 RE	388.774	8.126	696890.996	4362865.632	295.6278	696890.996	4362865.632	0.000
19 CL	398.774	10.000	696881.017	4362864.979	296.2644	696890.996	4362865.632	70.711
20 CI	422.094	23.319	696857.714	4362864.155	299.2336	696851.695	4363364.119	500.000
21 CL	432.094	10.000	696847.715	4362864.101	299.8702	696847.715	4362864.101	70.711
22 RE	516.651	84.557	696763.158	4362863.929	299.8702	696763.158	4362863.929	0.000
23 CL	540.532	23.881	696739.350	4362865.296	311.2156	696763.158	4362863.929	40.000
24 CI	575.339	34.808	696708.151	4362879.829	344.2891	696751.093	4362931.259	67.000
25 CL	599.220	23.881	696691.787	4362897.175	355.6345	696691.787	4362897.175	40.000
26 RE	601.945	2.725	696690.038	4362899.265	355.6345	696690.038	4362899.265	0.000
27 CL	611.945	10.000	696683.749	4362907.038	358.8177	696690.038	4362899.265	31.623
28 CI	633.082	21.137	696672.880	4362925.120	372.2737	696763.545	4362967.309	100.000
29 CL	643.082	10.000	696668.966	4362934.322	375.4568	696668.966	4362934.322	31.623
30 RE	651.239	8.156	696665.899	4362941.879	375.4568	696665.899	4362941.879	0.000
31 CL	661.239	10.000	696662.321	4362951.216	379.2017	696665.899	4362941.879	29.155
32 CI	678.265	17.026	696658.503	4362967.780	391.9539	696742.825	4362978.494	85.000
33 CL	688.265	10.000	696657.633	4362977.740	395.6988	696657.633	4362977.740	29.155
34 RE	698.272	10.006	696656.957	4362987.724	395.6988	696656.957	4362987.724	0.000
35 CL	699.375	1.103	696656.886	4362988.825	396.3044	696656.957	4362987.724	8.000
36 CI	741.549	42.174	696669.294	4363028.166	42.5958	696714.789	4362992.190	58.000
37 CL	742.653	1.103	696669.984	4363029.027	43.2014	696669.984	4363029.027	8.000
38 RE	742.714	0.061	696670.023	4363029.075	43.2014	696670.023	4363029.075	0.000
39 CL	744.159	1.445	696670.924	4363030.204	42.2815	696670.023	4363029.075	8.500
40 CI	796.019	51.860	696678.114	4363079.246	376.2517	696631.552	4363061.024	-50.000
41 CL	797.464	1.445	696677.574	4363080.587	375.3318	696677.574	4363080.587	8.500
42 RE	832.700	35.236	696664.260	4363113.210	375.3318	696664.260	4363113.210	0.000
43 CL	864.700	32.000	696655.429	4363143.816	395.7036	696664.260	4363113.210	40.000
44 CI	872.169	7.470	696655.483	4363151.279	5.2143	696705.315	4363147.188	50.000
45 CL	904.169	32.000	696664.754	4363181.754	25.5861	696664.754	4363181.754	40.000
46 RE	923.643	19.473	696672.371	4363199.676	25.5861	696672.371	4363199.676	0.000
47 CL	964.143	40.500	696682.983	4363238.456	399.8030	696672.371	4363199.676	45.000
48 CI	984.338	20.195	696678.899	4363258.094	374.0894	696632.983	4363238.301	-50.000
49 CL	1024.838	40.500	696653.706	4363289.427	348.3063	696653.706	4363289.427	45.000
50 RE	1086.500	61.662	696608.960	4363331.854	348.3063	696608.960	4363331.854	0.000
51 CL	1106.500	20.000	696597.058	4363347.651	380.1373	696608.960	4363331.854	20.000
52 CI	1131.346	24.846	696604.140	4363369.826	59.2240	696616.092	4363353.790	20.000
53 CL	1151.346	20.000	696622.995	4363375.800	91.0550	696622.995	4363375.800	20.000
54 RE	1159.413	8.067	696630.982	4363376.929	91.0550	696630.982	4363376.929	0.000
55 CL	1163.503	4.091	696635.025	4363377.552	88.6874	696630.982	4363376.929	15.000
56 CI	1260.671	97.168	696676.509	4363451.759	376.2167	696625.303	4363431.686	-55.000
57 CL	1264.762	4.091	696674.922	4363455.529	373.8491	696674.922	4363455.529	15.000
58 RE	1265.466	0.704	696674.641	4363456.175	373.8491	696674.641	4363456.175	0.000
59 CL	1285.466	20.000	696665.904	4363474.150	365.8914	696674.641	4363456.175	40.000
60 CI	1315.784	30.318	696645.913	4363496.702	341.7651	696597.114	4363433.309	-80.000
61 CL	1335.784	20.000	696629.116	4363507.533	333.8074	696629.116	4363507.533	40.000
62 RE	1393.116	57.332	696579.680	4363536.568	333.8074	696579.680	4363536.568	0.000
63 CL	1405.278	12.162	696569.369	4363543.010	339.0389	696579.680	4363536.568	30.000
64 CI	1433.598	28.320	696549.851	4363563.291	363.4023	696611.956	4363603.527	74.000
65 CL	1445.760	12.162	696543.809	4363573.842	368.6338	696543.809	4363573.842	30.000
66 RE	1473.519	27.758	696530.679	4363598.299	368.6338	696530.679	4363598.299	0.000
67 CL	1487.346	13.827	696523.886	4363610.340	364.6326	696530.679	4363598.299	39.000
68 CI	1487.729	0.383	696523.683	4363610.665	364.4108	696430.429	4363552.325	-110.000

*Estudio para la mejora del trazado de la Carretera CV-421 en el tramo comprendido entre los PP.KK. 0+535 y 5+300, en los
Términos Municipales de Turís y Godella (Valencia)*

69	CL	1501.557	13.827	696515.866	4363622.068	360.4095	696515.866	4363622.068	39.000
70	RE	1899.590	398.034	696283.984	4363945.582	360.4095	696283.984	4363945.582	0.000
71	CL	1930.840	31.250	696267.497	4363972.067	372.8435	696283.984	4363945.582	50.000
72	CI	1937.845	7.004	696264.882	4363978.562	378.4173	696340.329	4364005.167	80.000
73	CL	1969.095	31.250	696258.416	4364009.082	390.8513	696258.416	4364009.082	50.000
74	RE	2183.104	214.010	696227.766	4364220.885	390.8513	696227.766	4364220.885	0.000
75	CL	2190.512	7.407	696226.539	4364228.189	386.4849	696227.766	4364220.885	20.000
76	CI	2228.703	38.191	696206.485	4364259.758	341.4600	696173.751	4364216.811	-54.000
77	CL	2236.111	7.407	696200.396	4364263.974	337.0936	696200.396	4364263.974	20.000
78	RE	2252.276	16.166	696186.897	4364272.869	337.0936	696186.897	4364272.869	0.000
79	CL	2276.276	23.999	696166.023	4364284.614	323.6915	696186.897	4364272.869	36.986
80	CI	2281.466	5.191	696161.108	4364286.279	317.8943	696145.297	4364231.516	-57.000
81	CL	2305.466	23.999	696137.393	4364289.638	304.4921	696137.393	4364289.638	36.986
82	RE	2341.258	35.792	696101.690	4364292.162	304.4921	696101.690	4364292.162	0.000
83	CL	2354.057	12.800	696088.981	4364293.607	312.6407	696101.690	4364292.162	25.298
84	CI	2361.858	7.800	696081.485	4364295.735	322.5724	696098.844	4364342.624	50.000
85	CL	2374.657	12.800	696069.912	4364301.181	330.7210	696069.912	4364301.181	25.298
86	RE	2396.995	22.337	696050.126	4364311.547	330.7210	696050.126	4364311.547	0.000
87	CL	2426.995	30.000	696026.487	4364329.475	362.5520	696050.126	4364311.547	30.000
88	CI	2435.438	8.443	696022.846	4364337.062	380.4687	696051.445	4364346.122	30.000
89	CL	2465.438	30.000	696023.644	4364366.719	12.2997	696023.644	4364366.719	30.000
90	RE	2465.786	0.349	696023.711	4364367.061	12.2997	696023.711	4364367.061	0.000
91	CL	2485.786	20.000	696026.373	4364386.854	0.9318	696023.711	4364367.061	33.466
92	CI	2536.970	51.184	696005.217	4364431.518	342.7442	695970.379	4364387.674	-56.000
93	CL	2556.970	20.000	695988.215	4364441.997	331.3763	695988.215	4364441.997	33.466
94	RE	2631.990	75.020	695922.124	4364477.493	331.3763	695922.124	4364477.493	0.000
95	CL	2677.139	45.149	695885.177	4364503.045	352.8262	695922.124	4364477.493	55.000
96	CI	2697.443	20.304	695873.933	4364519.857	372.1182	695934.609	4364548.272	67.000
97	CL	2742.592	45.149	695864.426	4364563.761	393.5681	695864.426	4364563.761	55.000
98	RE	2976.436	233.844	695840.841	4364796.413	393.5681	695840.841	4364796.413	0.000
99	CL	3001.436	25.000	695837.288	4364821.141	385.6104	695840.841	4364796.413	50.000
100	CI	3018.758	17.322	695831.967	4364837.603	374.5826	695739.831	4364798.730	-100.000
101	CL	3043.757	24.999	695820.369	4364859.730	366.5887	695820.311	4364859.829	50.114
102	CI	3453.010	409.252	695612.006	4365211.961	365.3968	676903.828	4353907.361	-21858.406
103	CL	3463.532	10.523	695606.458	4365220.903	363.1632	695612.043	4365211.899	40.000
104	CI	3463.602	0.070	695606.420	4365220.961	363.1338	695480.039	4365138.324	-151.000
105	CL	3474.198	10.596	695600.416	4365229.691	360.9002	695600.416	4365229.691	40.000
106	RE	3558.517	84.319	695551.824	4365298.600	360.9002	695551.824	4365298.600	0.000
107	CL	3575.073	16.556	695542.533	4365312.301	364.3903	695551.824	4365298.600	50.000
108	CI	3665.274	90.201	695519.629	4365398.165	2.4193	695670.520	4365392.428	151.000
109	CL	3681.831	16.556	695520.862	4365414.673	5.9094	695520.862	4365414.673	50.000
110	RE	3702.149	20.318	695522.745	4365434.904	5.9094	695522.745	4365434.904	0.000
111	CL	3704.834	2.684	695523.006	4365437.576	6.7639	695522.745	4365434.904	16.384
112	CI	3715.264	10.431	695524.650	4365447.871	13.4042	695622.442	4365426.971	100.000
113	CL	3717.264	2.000	695525.082	4365449.824	14.0408	695525.082	4365449.824	14.142
114	RE	3787.506	70.242	695540.448	4365518.364	14.0408	695540.448	4365518.364	0.000
115	CL	3801.881	14.375	695543.312	4365532.449	10.2278	695540.448	4365518.364	41.533
116	CI	3832.321	30.440	695544.339	4365562.790	394.0787	695424.857	4365551.645	-120.000
117	CL	3847.562	15.241	695542.282	4365577.889	390.0358	695542.282	4365577.889	42.766
118	RE	3871.837	24.275	695538.498	4365601.867	390.0358	695538.498	4365601.867	0.000
119	CL	3874.033	2.195	695538.152	4365604.035	389.6476	695538.498	4365601.867	19.878
120	CI	3889.312	15.279	695535.041	4365618.990	384.2436	695360.526	4365574.893	-180.000
121	CL	3891.312	2.000	695534.544	4365620.927	383.8900	695534.544	4365620.927	18.974
122	RE	3927.112	35.799	695525.581	4365655.586	383.8900	695525.581	4365655.586	0.000
123	CL	3937.111	10.000	695523.207	4365665.300	386.4364	695525.581	4365655.586	35.355
124	CI	3957.852	20.740	695520.520	4365685.841	396.9993	695645.381	4365691.731	125.000
125	CL	3967.851	10.000	695520.315	4365695.838	399.5457	695520.315	4365695.838	35.355
126	RE	3998.762	30.911	695520.095	4365726.748	399.5457	695520.095	4365726.748	0.000
127	CL	4013.345	14.583	695519.569	4365741.317	394.0195	695520.095	4365726.748	35.000
128	CI	4023.045	9.700	695518.104	4365750.900	386.6681	695435.939	4365733.437	-84.000
129	CL	4037.629	14.583	695514.254	4365764.961	381.1419	695514.254	4365764.961	35.000
130	RE	4068.447	30.818	695505.257	4365794.437	381.1419	695505.257	4365794.437	0.000
131	CL	4075.465	7.018	695503.072	4365801.104	377.2230	695505.257	4365794.437	20.000
132	CI	4131.393	55.929	695462.777	4365836.619	314.7575	695449.681	4365781.143	-57.000
133	CL	4133.411	2.018	695460.806	4365837.051	312.8281	695455.888	4365837.949	20.000
134	CI	4144.129	10.718	695450.192	4365838.487	304.2986	695444.795	4365758.669	-80.000
135	CL	4144.164	0.035	695450.158	4365838.489	304.2725	695449.880	4365838.508	5.000
136	CI	4168.016	23.852	695426.426	4365836.935	287.4007	695444.122	4365748.692	-90.000
137	CL	4172.460	4.444	695422.084	4365835.990	285.8288	695422.084	4365835.990	20.000
138	RE	4220.252	47.791	695375.471	4365825.439	285.8288	695375.471	4365825.439	0.000
139	CL	4226.809	6.557	695369.052	4365824.106	289.2506	695375.471	4365825.439	20.000
140	CI	4275.469	48.660	695322.919	4365834.908	340.0340	695358.801	4365884.239	61.000
141	CL	4282.027	6.557	695317.759	4365838.952	343.4558	695317.759	4365838.952	20.000
142	RE	4303.999	21.972	695300.710	4365852.812	343.4558	695300.710	4365852.812	0.000
143	CL	4312.998	9.000	695293.903	4365858.694	349.1852	695300.710	4365852.812	21.213
144	CI	4343.559	30.560	695279.674	4365885.204	388.0959	695328.802	4365894.499	50.000
145	CL	4358.762	15.203	695278.375	4365900.336	397.7745	695278.375	4365900.336	27.571

*Estudio para la mejora del trazado de la Carretera CV-421 en el tramo comprendido entre los PP.KK. 0+535 y 5+300, en los
Términos Municipales de Turís y Godella (Valencia)*

146	RE	4409.692	50.930	695276.595	4365951.235	397.7745	695276.595	4365951.235	0.000
147	CL	4427.692	18.000	695277.045	4365969.203	9.2337	695276.595	4365951.235	30.000
148	CI	4461.616	33.925	695292.538	4365998.654	52.4277	695326.520	4365961.976	50.000
149	CL	4479.616	18.000	695307.091	4366009.203	63.8869	695307.091	4366009.203	30.000
150	RE	4497.733	18.117	695322.370	4366018.938	63.8869	695322.370	4366018.938	0.000
151	CL	4513.006	15.273	695334.804	4366027.780	54.1639	695322.370	4366018.938	27.634
152	CI	4541.694	28.688	695349.928	4366051.695	17.6374	695301.835	4366065.370	-50.000
153	CL	4554.294	12.600	695352.344	4366064.052	9.6159	695352.344	4366064.052	25.100
154	RE	4591.283	36.989	695357.909	4366100.620	9.6159	695357.909	4366100.620	0.000
155	CL	4612.883	21.600	695360.129	4366122.085	0.4487	695357.909	4366100.620	40.249
156	CI	4618.778	5.895	695359.939	4366127.976	395.4447	695285.131	4366122.614	-75.000
157	CL	4640.377	21.600	695356.340	4366149.253	386.2775	695356.340	4366149.253	40.249
158	RE	4651.316	10.938	695354.001	4366159.938	386.2775	695354.001	4366159.938	0.000
159	CL	4663.816	12.500	695351.840	4366172.241	394.2352	695354.001	4366159.938	25.000
160	CI	4698.617	34.801	695360.523	4366205.220	38.5454	695401.635	4366176.763	50.000
161	CL	4711.117	12.500	695368.463	4366214.864	46.5031	695368.463	4366214.864	25.000
162	RE	4712.192	1.075	695369.180	4366215.664	46.5031	695369.180	4366215.664	0.000
163	CL	4717.192	5.000	695372.471	4366219.428	44.2295	695369.180	4366215.664	18.708
164	CI	4770.168	52.976	695388.562	4366268.582	396.0501	695318.697	4366264.242	-70.000
165	CL	4775.168	5.000	695388.133	4366273.563	393.7766	695388.133	4366273.563	18.708
166	RE	4809.987	34.820	695384.735	4366308.217	393.7766	695384.735	4366308.217	0.000
167	CL	4823.852	13.865	695382.772	4366321.931	385.2894	695384.735	4366308.217	26.851
168	CI	4847.760	23.908	695372.231	4366343.155	356.0200	695332.154	4366310.022	-52.000
169	CL	4861.625	13.865	695362.490	4366353.007	347.5328	695362.490	4366353.007	26.851
170	RE	4864.349	2.724	695360.491	4366354.857	347.5328	695360.491	4366354.857	0.000
171	CL	4865.014	0.665	695360.003	4366355.310	347.8084	695360.491	4366354.857	7.146
172	CI	4915.473	50.459	695336.623	4366399.004	389.6354	695412.408	4366411.452	76.800
173	CL	4921.041	5.568	695335.854	4366404.518	391.9432	695335.854	4366404.518	20.679
174	RE	4929.325	8.284	695334.808	4366412.736	391.9432	695334.808	4366412.736	0.000
175	CL	4941.345	12.019	695332.834	4366424.585	384.5858	695334.808	4366412.736	25.000
176	CI	4985.166	43.821	695306.638	4366458.097	330.9368	695282.351	4366412.117	-52.000
177	CL	4997.185	12.019	695295.616	4366462.873	323.5794	695295.616	4366462.873	25.000
178	RE	4998.871	1.686	695294.044	4366463.484	323.5794	695294.044	4366463.484	0.000
179	CL	5003.572	4.700	695289.690	4366465.253	326.5716	695294.044	4366463.484	15.330
180	CI	5027.086	23.515	695271.178	4366479.400	356.5115	695309.959	4366510.961	50.000
181	CL	5033.666	6.580	695267.254	4366484.680	360.7003	695267.254	4366484.680	18.138
182	RE	5108.218	74.551	695224.100	4366545.471	360.7003	695224.100	4366545.471	0.000
183	CL	5148.718	40.500	695205.444	4366581.087	386.4834	695224.100	4366545.471	45.000
184	CI	5157.816	9.099	695204.345	4366590.106	398.0684	695254.321	4366591.623	50.000
185	CL	5198.316	40.500	695213.895	4366629.161	23.8515	695213.895	4366629.161	45.000
186	RE	5257.138	58.822	695235.422	4366683.903	23.8515	695235.422	4366683.903	0.000
187	CL	5274.138	16.999	695240.814	4366700.005	14.0133	695235.422	4366683.903	30.577
188	CI	5287.034	12.896	695242.136	4366712.804	399.0859	695187.141	4366712.014	-55.000
189	CL	5310.534	23.500	695238.473	4366735.968	385.4857	695238.473	4366735.968	35.951
190	RE	5332.055	21.521	695233.609	4366756.932	385.4857	695233.609	4366756.932	0.000

RE = alineación recta	P.K. final: punto kilométrico final de la alineación
CL = curva de transición	X, Y inicial: coordenadas iniciales de la alineación
CI = curva circular	X, Y final: coordenadas finales de la alineación
*Nota sobre el radio: "Clip" asigna radio 0.000 a las alineaciones rectas (R = infinito)	

Nota: la coordinación de radios de curvas del trazado que se mostrará a continuación está basada en las alineaciones anteriores. El criterio empleado será el de la Norma 3.1-IC Trazado del año 2000, realizando los cálculos de la misma manera que en el *Anejo del Análisis Normativo*.

Coordinación entre alineaciones curvas consecutivas

Norma 3.1-IC Trazado 2000

Coordinación entre alineaciones curvas consecutivas: sentido creciente de los PP.KK.

Alineación	P.K. final (m)	Longitud	Criterio	Radio (m)	Radio de salida máximo (m)	Radio de salida mínimo (m)	Cumple
20 CI	422,094			500,000			
22 RE	516,651	84,557	$L_r \leq 400 \text{ m}$				
24 CI	575,339			67,000	> 670	259	(2) No
26 RE	601,945	2,725	$L_r \leq 400 \text{ m}$				
28 CI	633,082			100,000	101	50	(1) Sí
30 RE	651,239	8,156	$L_r \leq 400 \text{ m}$				
32 CI	678,265			85,000	151	67	(1) Sí
34 RE	698,272	10,006	$L_r \leq 400 \text{ m}$				
36 CI	741,549			58,000	128	58	(1) Sí
38 RE	742,714	0,061	$L_r \leq 400 \text{ m}$				
40 CI	796,019			50,000	87	50	(1) Sí
42 RE	832,700	35,236	$L_r \leq 400 \text{ m}$				
44 CI	872,169			50,000	75	50	(1) Sí
46 RE	923,643	19,473	$L_r \leq 400 \text{ m}$				
48 CI	984,338			50,000	75	50	(1) Sí
50 RE	1086,500	61,662	$L_r \leq 400 \text{ m}$				
52 CI	1131,346			20,000	75	50	(2) No
54 RE	1159,413	8,067	$L_r \leq 400 \text{ m}$				
56 CI	1260,671			55,000	30	20	(2) No
58 RE	1265,466	0,704	$L_r \leq 400 \text{ m}$				
60 CI	1315,784			80,000	83	50	(1) Sí
62 RE	1393,116	57,332	$L_r \leq 400 \text{ m}$				
64 CI	1433,598			74,000	120	53	(1) Sí
66 RE	1473,519	27,758	$L_r \leq 400 \text{ m}$				
68 CI	1487,729			110,000	111	50	(1) Sí
70 RE	1899,590	398,034	$L_r \leq 400 \text{ m}$				
72 CI	1937,845			80,000	166	73	(1) Sí
74 RE	2183,104	214,010	$L_r \leq 400 \text{ m}$				
76 CI	2228,703			54,000	120	53	(1) Sí
78 RE	2252,276	16,166	$L_r \leq 400 \text{ m}$				
80 CI	2281,466			57,000	81	50	(1) Sí
82 RE	2341,258	35,792	$L_r \leq 400 \text{ m}$				
84 CI	2361,858			50,000	86	50	(1) Sí
86 RE	2396,995	22,337	$L_r \leq 400 \text{ m}$				
88 CI	2435,438			30,000	75	50	(2) No
90 RE	2465,786	0,349	$L_r \leq 400 \text{ m}$				
92 CI	2536,970			56,000	45	25	(2) No
94 RE	2631,990	75,020	$L_r \leq 400 \text{ m}$				
96 CI	2697,443			67,000	84	50	(1) Sí
98 RE	2976,436	233,844	$L_r \leq 400 \text{ m}$				
100 CI	3018,758			100,000	101	50	(1) Sí
(sin recta)		0,000	$L_r \leq 400 \text{ m}$				
102 CI	3453,010			21858,406	151	67	(2) No
(sin recta)		0,000	$L_r \leq 400 \text{ m}$				
104 CI	3463,602			151,000	> 670	389	(2) No

106 RE	3558,517	84,319	Lr ≤ 400 m				
108 CI	3665,274			151,000	234	101	(1) Sí
110 RE	3702,149	20,318	Lr ≤ 400 m				
112 CI	3715,264			100,000	234	101	(2) No
114 RE	3787,506	70,242	Lr ≤ 400 m				
116 CI	3832,321			120,000	151	67	(1) Sí
118 RE	3871,837	24,275	Lr ≤ 400 m				
120 CI	3889,312			180,000	182	80	(1) Sí
122 RE	3927,112	35,799	Lr ≤ 400 m				
124 CI	3957,852			125,000	289	119	(1) Sí
126 RE	3998,762	30,911	Lr ≤ 400 m				
128 CI	4023,045			84,000	190	84	(1) Sí
130 RE	4068,447	30,818	Lr ≤ 400 m				
132 CI	4131,393			57,000	126	57	(1) Sí
(sin recta)		0,000	Lr ≤ 400 m				
134 CI	4144,129			80,000	86	50	(1) Sí
(sin recta)		0,000	Lr ≤ 400 m				
136 CI	4168,016			90,000	120	53	(1) Sí
138 RE	4220,252	47,791	Lr ≤ 400 m				
140 CI	4275,469			61,000	135	60	(1) Sí
142 RE	4303,999	21,972	Lr ≤ 400 m				
144 CI	4343,559			50,000	92	50	(1) Sí
146 RE	4409,692	50,930	Lr ≤ 400 m				
148 CI	4461,616			50,000	75	50	(1) Sí
150 RE	4497,733	18,117	Lr ≤ 400 m				
152 CI	4541,694			50,000	75	50	(1) Sí
154 RE	4591,283	36,989	Lr ≤ 400 m				
156 CI	4618,778			75,000	75	50	(1) Sí
158 RE	4651,316	10,938	Lr ≤ 400 m				
160 CI	4698,617			50,000	113	50	(1) Sí
162 RE	4712,192	1,075	Lr ≤ 400 m				
164 CI	4770,168			70,000	75	50	(1) Sí
166 RE	4809,987	34,820	Lr ≤ 400 m				
168 CI	4847,760			52,000	105	50	(1) Sí
170 RE	4864,349	2,724	Lr ≤ 400 m				
172 CI	4915,473			76,800	78	50	(1) Sí
174 RE	4929,325	8,284	Lr ≤ 400 m				
176 CI	4985,166			52,000	115	52	(1) Sí
178 RE	4998,871	1,686	Lr ≤ 400 m				
180 CI	5027,086			50,000	78	50	(1) Sí
182 RE	5108,218	74,551	Lr ≤ 400 m				
184 CI	5157,816			50,000	75	50	(1) Sí
186 RE	5257,138	58,822	Lr ≤ 400 m				
188 CI	5287,034			55,000	75	50	(1) Sí
190 RE	5332,055	21,521	Lr ≤ 400 m				

Norma 3.1-IC Trazado 2000

Coordinación entre alineaciones curvas consecutivas: sentido creciente de los PP.KK.

Alineación	P.K. final (m)	Longitud	Criterio	Radio (m)	Radio de salida máximo (m)	Radio de salida mínimo (m)	Cumple
190 RE	5332,055	21,521	$L_r \leq 400 \text{ m}$				
188 CI	5287,034			55,000			(1) Sí
186 RE	5257,138	58,822	$L_r \leq 400 \text{ m}$				
184 CI	5157,816			50,000	83	50	(1) Sí
182 RE	5108,218	74,551	$L_r \leq 400 \text{ m}$				
180 CI	5027,086			50,000	75	50	(1) Sí
178 RE	4998,871	1,686	$L_r \leq 400 \text{ m}$				
176 CI	4985,166			52,000	75	50	(1) Sí
174 RE	4929,325	8,284	$L_r \leq 400 \text{ m}$				
172 CI	4915,473			76,800	78	50	(1) Sí
170 RE	4864,349	2,724	$L_r \leq 400 \text{ m}$				
168 CI	4847,760			52,000	115	52	(1) Sí
166 RE	4809,987	34,820	$L_r \leq 400 \text{ m}$				
164 CI	4770,168			70,000	78	50	(1) Sí
162 RE	4712,192	1,075	$L_r \leq 400 \text{ m}$				
160 CI	4698,617			50,000	105	50	(1) Sí
158 RE	4651,316	10,938	$L_r \leq 400 \text{ m}$				
156 CI	4618,778			75,000	75	50	(1) Sí
154 RE	4591,283	36,989	$L_r \leq 400 \text{ m}$				
152 CI	4541,694			50,000	113	50	(1) Sí
150 RE	4497,733	18,117	$L_r \leq 400 \text{ m}$				
148 CI	4461,616			50,000	75	50	(1) Sí
146 RE	4409,692	50,930	$L_r \leq 400 \text{ m}$				
144 CI	4343,559			50,000	75	50	(1) Sí
142 RE	4303,999	21,972	$L_r \leq 400 \text{ m}$				
140 CI	4275,469			61,000	75	50	(1) Sí
138 RE	4220,252	47,791	$L_r \leq 400 \text{ m}$				
136 CI	4168,016			90,000	92	50	(1) Sí
(sin recta)		0,000	$L_r \leq 400 \text{ m}$				
134 CI	4144,129			80,000	135	60	(1) Sí
(sin recta)		0,000	$L_r \leq 400 \text{ m}$				
132 CI	4131,393			57,000	120	53	(1) Sí
130 RE	4068,447	30,818	$L_r \leq 400 \text{ m}$				
128 CI	4023,045			84,000	86	50	(1) Sí
126 RE	3998,762	30,911	$L_r \leq 400 \text{ m}$				
124 CI	3957,852			125,000	126	57	(1) Sí
122 RE	3927,112	35,799	$L_r \leq 400 \text{ m}$				
120 CI	3889,312			180,000	190	84	(1) Sí
118 RE	3871,837	24,275	$L_r \leq 400 \text{ m}$				
116 CI	3832,321			120,000	289	119	(1) Sí
114 RE	3787,506	70,242	$L_r \leq 400 \text{ m}$				
112 CI	3715,264			100,000	182	80	(1) Sí
110 RE	3702,149	20,318	$L_r \leq 400 \text{ m}$				
108 CI	3665,274			151,000	151	67	(1) Sí
106 RE	3558,517	84,319	$L_r \leq 400 \text{ m}$				
104 CI	3463,602			151,000	234	101	(1) Sí
(sin recta)		0,000	$L_r \leq 400 \text{ m}$				

102 CI	3453,010		21858,406	234	101	(2) No
(sin recta)	0,000	Lr ≤ 400 m				
100 CI	3018,758		100,000	> 670	389	(2) No
98 RE	2976,436	233,844	Lr ≤ 400 m			
96 CI	2697,443		67,000	151	67	(1) Sí
94 RE	2631,990	75,020	Lr ≤ 400 m			
92 CI	2536,970		56,000	101	50	(1) Sí
90 RE	2465,786	0,349	Lr ≤ 400 m			
88 CI	2435,438		30,000	84	50	(2) No
86 RE	2396,995	22,337	Lr ≤ 400 m			
84 CI	2361,858		50,000	45	25	(2) No
82 RE	2341,258	35,792	Lr ≤ 400 m			
80 CI	2281,466		57,000	75	50	(1) Sí
78 RE	2252,276	16,166	Lr ≤ 400 m			
76 CI	2228,703		54,000	86	50	(1) Sí
74 RE	2183,104	214,010	Lr ≤ 400 m			
72 CI	1937,845		80,000	81	50	(1) Sí
70 RE	1899,590	398,034	Lr ≤ 400 m			
68 CI	1487,729		110,000	120	53	(1) Sí
66 RE	1473,519	27,758	Lr ≤ 400 m			
64 CI	1433,598		74,000	166	73	(1) Sí
62 RE	1393,116	57,332	Lr ≤ 400 m			
60 CI	1315,784		80,000	111	51	(1) Sí
58 RE	1265,466	0,704	Lr ≤ 400 m			
56 CI	1260,671		55,000	120	53	(1) Sí
54 RE	1159,413	8,067	Lr ≤ 400 m			
52 CI	1131,346		20,000	83	50	(2) No
50 RE	1086,500	61,662	Lr ≤ 400 m			
48 CI	984,338		50,000	30	20	(2) No
46 RE	923,643	19,473	Lr ≤ 400 m			
44 CI	872,169		50,000	75	50	(1) Sí
42 RE	832,700	35,236	Lr ≤ 400 m			
40 CI	796,019		50,000	75	50	(1) Sí
38 RE	742,714	0,061	Lr ≤ 400 m			
36 CI	741,549		58,000	75	50	(1) Sí
34 RE	698,272	10,006	Lr ≤ 400 m			
32 CI	678,265		85,000	87	50	(1) Sí
30 RE	651,239	8,156	Lr ≤ 400 m			
28 CI	633,082		100,000	128	58	(1) Sí
26 RE	601,945	2,725	Lr ≤ 400 m			
24 CI	575,339		67,000	151	67	(1) Sí
22 RE	516,651	84,557	Lr ≤ 400 m			
20 CI	422,094		500,000	101	50	(2) No

Cumple	Tipos de sucesos entre alineaciones curvas consecutivas
(1) Sí	Valor de R dentro del rango $R_{\max}-R_{\min}$, R_{salida} y $R_{\text{entrada}} \geq 50$ m
(2) No	Valor de R fuera del rango $R_{\max}-R_{\min}$

eje1 - eje1 - RN3

DATOS DE ENTRADA

<u>Ver.</u>	<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>	<u>Long.(L)</u>	<u>Radio(kv)</u>	<u>Flecha</u>
1	0+578,272	295,785•				
2	0+598,178	297,137•	6,7903	20,090	-1.100,000•	-0,046
3	0+638,311	299,129•	4,9640	7,348	-1.100,000•	-0,006
4	0+839,922	307,790•	4,2960	32,877	2.500,000•	0,054
5	0+956,756	314,346•	5,6110	30,579	-2.500,000•	-0,047
6	1+035,256	317,790•	4,3878	61,030	2.400,000•	0,194
7	1+095,278	321,950•	6,9308	3,429	-300,000•	-0,005
8	1+125,533	323,701•	5,7877	11,880	1.000,000•	0,018
9	1+148,311	325,290•	6,9756	8,563	-300,000•	-0,031
10	1+207,756	327,740•	4,1215	57,944	2.400,000•	0,175
11	1+271,422	331,901•	6,5358	23,525	-1.100,000•	-0,063
12	1+307,733	333,498•	4,3971	9,345	-300,000•	-0,036
13	1+327,922	333,757•	1,2823	28,771	1.400,000•	0,074
14	1+350,656	334,515•	3,3374	0,084	-2.400,000•	0,000
15	1+387,700	335,750•	3,3339	42,583	1.200,000•	0,189
16	1+428,378	338,550•	6,8824	11,388	-300,000•	-0,054
17	1+449,972	339,216•	3,0863	1,048	900,000•	0,000
18	1+490,389	340,511•	3,2028	7,126	-1.100,000•	-0,006
19	1+509,728	341,005•	2,5550	12,985	-300,000•	-0,070
20	1+529,750	340,650•	-1,7732	12,723	1.000,000•	0,020
21	1+590,039	340,348•	-0,5009	3,631	-1.100,000•	-0,001
22	1+609,650	340,185•	-0,8310	23,608	-900,000•	-0,077
23	1+629,594	339,496•	-3,4541	15,049	1.200,000•	0,024
24	1+657,372	338,885•	-2,2000	28,837	2.400,000•	0,043
25	1+690,589	338,553•	-0,9985	11,915	2.500,000•	0,007
26	1+729,550	338,350•	-0,5219	24,536	2.400,000•	0,031
27	1+749,533	338,450•	0,5004	9,970	2.400,000•	0,005
28	1+809,583	339,000•	0,9159	18,410	-1.300,000•	-0,033
29	1+829,572	338,900•	-0,5003	11,148	-600,000•	-0,026
30	1+849,572	338,428•	-2,3582	12,587	-500,000•	-0,040
31	1+889,794	336,467•	-4,8756	11,216	500,000•	0,031
32	1+910,267	335,928•	-2,6324	10,692	200,000•	0,071
33	1+947,933	336,951•	2,7138	15,139	-1.200,000•	-0,024
34	2+053,017	338,477•	1,4523	28,845	2.700,000•	0,039
35	2+127,128	340,345•	2,5206	12,639	-1.500,000•	-0,013
36	2+179,933	341,231•	1,6781	14,710	500,000•	0,054
37	2+199,683	342,143•	4,6201	7,929	20.000,000•	0,000
38	2+287,044	346,214•	4,6598	12,653	20.000,000•	0,001
39	2+363,267	349,814•	4,7230	13,009	3.000,000•	0,007
40	2+425,322	353,014•	5,1567	22,761	-1.200,000•	-0,054
41	2+570,489	357,746•	3,2599	25,112	5.000,000•	0,016
42	2+684,739	362,045•	3,7621	18,523	-1.200,000•	-0,036
43	2+822,044	365,091•	2,2185	58,842	2.400,000•	0,180
44	2+981,683	372,546•	4,6703	22,995	-1.200,000•	-0,055
45	3+063,422	374,798•	2,7540	38,870	1.000,000•	0,189
46	3+089,289	376,515•	6,6410	8,653	-300,000•	-0,031
47	3+287,794	383,973•	3,7566	29,587	2.500,000•	0,044
48	3+343,461	386,723•	4,9401	78,101	-1.125,000•	-0,678
49	3+423,100	385,128•	-2,0022	21,300	850,000•	0,067
50	3+443,356	385,230•	0,5037	18,691	850,000•	0,051
51	3+502,139	386,819•	2,7026	72,154	2.500,000•	0,260
52	3+625,561	393,716•	5,5888	34,494	-1.200,000•	-0,124
53	3+704,567	395,861•	2,7143	5,126	-300,000•	-0,011
54	3+733,900	396,156•	1,0056	51,011	2.000,000•	0,163
55	3+835,289	399,761•	3,5562	8,237	-2.400,000•	-0,004
56	3+864,500	400,700•	3,2129	12,067	-325,000•	-0,056
57	3+884,500	400,600•	-0,5000	25,064	-730,000•	-0,108
58	3+984,883	396,651•	-3,9334	21,613	2.500,000•	0,023
59	4+123,550	392,396•	-3,0689	55,489	2.500,000•	0,154
60	4+282,494	391,046•	-0,8494	37,689	-5.000,000•	-0,036
61	4+361,750	389,775•	-1,6031	31,554	-1.200,000•	-0,104
62	4+455,072	385,825•	-4,2326	31,811	-5.000,000•	-0,025
63	4+575,794	379,948•	-4,8688	33,032	1.600,000•	0,085
64	4+620,639	378,690•	-2,8044	42,954	1.300,000•	0,177
65	4+660,656	378,890•	0,4998	32,692	1.300,000•	0,103
66	4+719,933	380,677•	3,0146	10,058	-400,000•	-0,032
67	4+739,933	380,777•	0,5000	15,719	-500,000•	-0,062
68	4+799,822	379,194•	-2,6438	19,235	300,000•	0,154
69	4+819,894	379,950•	3,7680	20,913	-490,000•	-0,112
70	4+919,917	379,450•	-0,4999	92,056	1.300,000•	0,815
71	4+978,111	383,280•	6,5814	24,110	-400,000•	-0,182
72	5+037,972	383,611•	0,5538	25,144	-1.000,000•	-0,079
73	5+156,356	381,290•	-1,9607	16,612	300,000•	0,115
74	5+193,744	382,628•	3,5765	13,927	-600,000•	-0,040
75	5+255,189	383,399•	1,2554	4,249	-600,000•	-0,004
76	5+300,000	383,644•	0,5473	21,141	800,000•	0,070
77	5+312,000	384,027•	3,1898			

COTAS EN PUNTOS DEL EJE

<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>
0+578,272	295,785	6,7903
0+580,000	295,902	6,7903
0+600,000	297,196	5,7115
0+620,000	298,220	4,9640
0+640,000	299,200	4,4764
0+660,000	300,061	4,2960
0+680,000	300,920	4,2960
0+700,000	301,779	4,2960
0+720,000	302,638	4,2960
0+740,000	303,497	4,2960
0+760,000	304,357	4,2960
0+780,000	305,216	4,2960
0+800,000	306,075	4,2960
0+820,000	306,934	4,2960
0+840,000	307,848	4,9566
0+860,000	308,917	5,6110
0+880,000	310,039	5,6110
0+900,000	311,161	5,6110
0+920,000	312,283	5,6110
0+940,000	313,405	5,6110
0+960,000	314,459	4,8697
0+980,000	315,365	4,3878
1+000,000	316,243	4,3878
1+020,000	317,169	5,0237
1+040,000	318,257	5,8570
1+060,000	319,512	6,6903
1+080,000	320,891	6,9308
1+100,000	322,223	5,7877
1+120,000	323,381	5,8283
1+140,000	324,710	6,9756
1+160,000	325,772	4,1215
1+180,000	326,596	4,1722
1+200,000	327,514	5,0055
1+220,000	328,599	5,8388
1+240,000	329,847	6,5358
1+260,000	331,155	6,5049
1+280,000	332,274	4,6867
1+300,000	333,158	4,3971
1+320,000	333,670	1,7440
1+340,000	334,162	3,1725
1+360,000	334,827	3,3339
1+380,000	335,571	4,4665
1+400,000	336,631	6,1332
1+420,000	337,973	6,8824
1+440,000	338,909	3,0863
1+460,000	339,538	3,2028
1+480,000	340,178	3,2028
1+500,000	340,756	2,5550
1+520,000	340,823	-1,7732
1+540,000	340,599	-0,5009
1+560,000	340,498	-0,5009
1+580,000	340,398	-0,5009
1+600,000	340,263	-1,0703
1+620,000	339,826	-3,2925
1+640,000	339,267	-2,2000
1+660,000	338,888	-1,4898
1+680,000	338,659	-0,9985
1+700,000	338,504	-0,5219
1+720,000	338,401	-0,4086
1+740,000	338,403	0,4247
1+760,000	338,546	0,9159
1+780,000	338,729	0,9159
1+800,000	338,912	0,9159
1+820,000	338,948	-0,5003
1+840,000	338,654	-2,3582
1+860,000	337,920	-4,8756
1+880,000	336,945	-4,8756
1+900,000	336,199	-2,6324
1+920,000	336,192	2,7138

COTAS EN PUNTOS DEL EJE

<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>
1+940,000	336,735	2,7138
1+960,000	337,126	1,4523
1+980,000	337,416	1,4523
2+000,000	337,707	1,4523
2+020,000	337,997	1,4523
2+040,000	338,288	1,5044
2+060,000	338,663	2,2451
2+080,000	339,157	2,5206
2+100,000	339,661	2,5206
2+120,000	340,165	2,5206
2+140,000	340,561	1,6781
2+160,000	340,896	1,6781
2+180,000	341,287	3,1624
2+200,000	342,158	4,6415
2+220,000	343,090	4,6598
2+240,000	344,022	4,6598
2+260,000	344,954	4,6598
2+280,000	345,886	4,6598
2+300,000	346,826	4,7230
2+320,000	347,771	4,7230
2+340,000	348,715	4,7230
2+360,000	349,662	4,8310
2+380,000	350,677	5,1567
2+400,000	351,708	5,1567
2+420,000	352,724	4,6518
2+440,000	353,493	3,2599
2+460,000	354,145	3,2599
2+480,000	354,797	3,2599
2+500,000	355,449	3,2599
2+520,000	356,101	3,2599
2+540,000	356,753	3,2599
2+560,000	357,405	3,3012
2+580,000	358,105	3,7012
2+600,000	358,857	3,7621
2+620,000	359,609	3,7621
2+640,000	360,362	3,7621
2+660,000	361,114	3,7621
2+680,000	361,858	3,3852
2+700,000	362,383	2,2185
2+720,000	362,827	2,2185
2+740,000	363,271	2,2185
2+760,000	363,714	2,2185
2+780,000	364,158	2,2185
2+800,000	364,613	2,5259
2+820,000	365,202	3,3592
2+840,000	365,957	4,1926
2+860,000	366,864	4,6703
2+880,000	367,798	4,6703
2+900,000	368,732	4,6703
2+920,000	369,666	4,6703
2+940,000	370,600	4,6703
2+960,000	371,534	4,6703
2+980,000	372,428	3,8524
3+000,000	373,051	2,7540
3+020,000	373,602	2,7540
3+040,000	374,153	2,7540
3+060,000	374,832	4,3553
3+080,000	375,903	6,3553
3+100,000	376,918	3,7566
3+120,000	377,669	3,7566
3+140,000	378,420	3,7566
3+160,000	379,172	3,7566
3+180,000	379,923	3,7566
3+200,000	380,674	3,7566
3+220,000	381,426	3,7566
3+240,000	382,177	3,7566
3+260,000	382,928	3,7566
3+280,000	383,690	4,0366
3+300,000	384,577	4,8366

COTAS EN PUNTOS DEL EJE

<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>
3+320,000	385,456	3,5544
3+340,000	385,989	1,7766
3+360,000	386,166	-0,0012
3+380,000	385,988	-1,7789
3+400,000	385,591	-2,0022
3+420,000	385,224	-1,1140
3+440,000	385,234	1,2084
3+460,000	385,680	2,7026
3+480,000	386,259	3,2601
3+500,000	386,991	4,0601
3+520,000	387,883	4,8601
3+540,000	388,935	5,5888
3+560,000	390,052	5,5888
3+580,000	391,170	5,5888
3+600,000	392,288	5,5888
3+620,000	393,349	4,6150
3+640,000	394,105	2,9483
3+660,000	394,651	2,7143
3+680,000	395,194	2,7143
3+700,000	395,737	2,7143
3+720,000	396,050	1,5859
3+740,000	396,467	2,5859
3+760,000	397,084	3,5562
3+780,000	397,795	3,5562
3+800,000	398,507	3,5562
3+820,000	399,218	3,5562
3+840,000	399,913	3,2129
3+860,000	400,552	2,7411
3+880,000	400,578	-1,6003
3+900,000	399,990	-3,9334
3+920,000	399,204	-3,9334
3+940,000	398,417	-3,9334
3+960,000	397,630	-3,9334
3+980,000	396,851	-3,6965
4+000,000	396,188	-3,0689
4+020,000	395,574	-3,0689
4+040,000	394,960	-3,0689
4+060,000	394,346	-3,0689
4+080,000	393,732	-3,0689
4+100,000	393,122	-2,9011
4+120,000	392,622	-2,1011
4+140,000	392,282	-1,3011
4+160,000	392,086	-0,8494
4+180,000	391,916	-0,8494
4+200,000	391,747	-0,8494
4+220,000	391,577	-0,8494
4+240,000	391,407	-0,8494
4+260,000	391,237	-0,8494
4+280,000	391,040	-1,1764
4+300,000	390,765	-1,5764
4+320,000	390,445	-1,6031
4+340,000	390,124	-1,6031
4+360,000	389,721	-2,7720
4+380,000	389,003	-4,2326
4+400,000	388,156	-4,2326
4+420,000	387,310	-4,2326
4+440,000	386,463	-4,2493
4+460,000	385,573	-4,6493
4+480,000	384,612	-4,8688
4+500,000	383,638	-4,8688
4+520,000	382,664	-4,8688
4+540,000	381,690	-4,8688
4+560,000	380,717	-4,8238
4+580,000	379,877	-3,5738
4+600,000	379,269	-2,7399
4+620,000	378,875	-1,2014
4+640,000	378,788	0,3370
4+660,000	378,981	1,7068
4+680,000	379,473	3,0146

COTAS EN PUNTOS DEL EJE

<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>
4+700,000	380,076	3,0146
4+720,000	380,647	1,7406
4+740,000	380,715	-1,0852
4+760,000	380,246	-2,6438
4+780,000	379,718	-2,6438
4+800,000	379,349	0,6214
4+820,000	379,840	1,6125
4+840,000	379,850	-0,4999
4+860,000	379,750	-0,4999
4+880,000	379,664	-0,0298
4+900,000	379,812	1,5087
4+920,000	380,267	3,0471
4+940,000	381,031	4,5856
4+960,000	382,102	6,1241
4+980,000	383,161	3,0953
5+000,000	383,401	0,5538
5+020,000	383,512	0,5538
5+040,000	383,516	-0,9062
5+060,000	383,180	-1,9607
5+080,000	382,787	-1,9607
5+100,000	382,395	-1,9607
5+120,000	382,003	-1,9607
5+140,000	381,611	-1,9607
5+160,000	381,457	2,0227
5+180,000	382,136	3,5765
5+200,000	382,706	1,3734
5+220,000	382,957	1,2554
5+240,000	383,208	1,2554
5+260,000	383,425	0,5473
5+280,000	383,535	0,5473
5+300,000	383,714	1,8686
5+312,000	384,027	3,1898

eje1 - eje1 - RN3

ELEMENTOS DE LA RASANTE

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-0	INICIO	578,272						295,785
						6,790	9,861	
V-1	PC1	588,133						296,455
		598,178	20,090	1.100,000				297,137
	FC1	608,223						297,635
						4,964	26,414	
V-2	PC2	634,637						298,946
		638,311	7,348	1.100,000				299,129
	FC2	641,985						299,287
						4,296	181,499	
V-3	PC3	823,484						307,084
		839,922	32,877		2.500,000			307,790
	FC3	856,360						308,712
						5,611	85,105	
V-4	PC4	941,466						313,488
		956,756	30,579	2.500,000				314,346
	FC4	972,045						315,016
						4,388	32,695	
V-5	PC5	1.004,740						316,451
		1.035,256	61,030		2.400,000			317,790
	FC5	1.065,771						319,905
						6,931	27,792	
V-6	PC6	1.093,563						321,831
		1.095,278	3,429	300,000				321,950
	FC6	1.096,992						322,049
						5,788	22,601	
V-7	PC7	1.119,594						323,357
		1.125,533	11,880		1.000,000			323,701
	FC7	1.131,473						324,115
						6,976	12,557	
V-8	PC8	1.144,030						324,991
		1.148,311	8,563	300,000				325,290
	FC8	1.152,592						325,466
						4,121	26,191	
V-9	PC9	1.178,783						326,546
		1.207,756	57,944		2.400,000			327,740
	FC9	1.236,728						329,634
						6,536	22,932	
V-10	PC10	1.259,660						331,132
		1.271,422	23,525	1.100,000				331,901
	FC10	1.283,185						332,418
						4,397	19,876	
V-11	PC11	1.303,061						333,292
		1.307,733	9,345	300,000				333,498
	FC11	1.312,406						333,558
						1,282	1,131	
V-12	PC12	1.313,537						333,572
		1.327,922	28,771		1.400,000			333,757
	FC12	1.342,308						334,237
						3,337	8,306	
V-13	PC13	1.350,614						334,514
		1.350,656	0,084	2.400,000				334,515
	FC13	1.350,698						334,517
						3,334	15,711	
V-14	PC14	1.366,409						335,041
		1.387,700	42,583		1.200,000			335,750
	FC14	1.408,991						337,216
						6,882	13,692	
V-15	PC15	1.422,684						338,158
		1.428,378	11,388	300,000				338,550
	FC15	1.434,072						338,726
						3,086	15,376	
V-16	PC16	1.449,448						339,200
		1.449,972	1,048		900,000			339,216
	FC16	1.450,496						339,233
						3,203	36,330	
V-17	PC17	1.486,826						340,397
		1.490,389	7,126	1.100,000				340,511
	FC17	1.493,952						340,602
						2,555	9,284	
V-18	PC18	1.503,235						340,839
		1.509,728	12,985	300,000				341,005
	FC18	1.516,220						340,890
						-1,773	7,168	
V-19	PC19	1.523,388						340,763
		1.529,750	12,723		1.000,000			340,650
	FC19	1.536,112						340,618
						-0,501	52,112	

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-20	PC20	1.588,224	3,631	1.100,000				340,357
		1.590,039						340,348
	FC20	1.591,854						340,333
V-21			23,608	900,000		-0,831	5,992	
	PC21	1.597,846						340,283
	FC21	1.609,650						340,185
V-22			15,049		1.200,000	-3,454	0,616	
	PC22	1.622,070						339,756
	FC22	1.629,594						339,496
V-23			28,837		2.400,000	-2,200	5,835	
	PC23	1.642,954						339,202
	FC23	1.657,372						338,885
V-24			11,915		2.500,000	-0,998	12,841	
	PC24	1.671,790						338,741
	FC24	1.684,632						338,613
V-25			24,536		2.400,000	-0,522	20,736	
	PC25	1.690,589						338,553
	FC25	1.696,546						338,522
V-26			9,970		2.400,000	0,500	2,730	
	PC26	1.717,282						338,414
	FC26	1.729,550						338,350
V-27			18,410	1.300,000		0,916	45,860	
	PC27	1.741,818						338,411
	FC27	1.744,548						338,425
V-28			11,148	600,000		-0,500	5,210	
	PC28	1.800,378						338,916
	FC28	1.809,583						339,000
V-29			12,587	500,000		-2,358	8,133	
	PC29	1.818,789						338,954
	FC29	1.823,998						338,928
V-30			11,216		500,000	-4,876	28,321	
	PC30	1.829,572						338,900
	FC30	1.835,146						338,769
V-31			10,692		200,000	-2,632	9,518	
	PC31	1.843,279						338,577
	FC31	1.849,572						338,428
V-32			15,139	1.200,000		2,714	24,751	
	PC32	1.855,866						338,121
	FC32	1.884,186						336,741
V-33			28,845		2.700,000	1,452	83,091	
	PC33	1.889,794						336,467
	FC33	1.895,403						336,320
V-34			12,639	1.500,000		2,521	53,369	
	PC34	1.904,920						336,069
	FC34	1.910,267						335,928
V-35			14,710		500,000	1,678	39,131	
	PC35	1.915,613						336,073
	FC35	1.940,364						336,745
V-36			7,929		20.000,000	4,620	8,430	
	PC36	1.947,933						336,951
	FC36	1.955,503						337,060
V-37			12,653		20.000,000	4,660	77,070	
	PC37	2.038,594						338,267
	FC37	2.053,017						338,477
V-38			13,009		3.000,000	4,723	63,391	
	PC38	2.067,439						338,840
	FC38	2.120,808						340,185
V-39			22,761	1.200,000		5,157	44,170	
	PC39	2.127,128						340,345
	FC39	2.133,447						340,451
V-40			25,112		5.000,000	3,260	121,230	
	PC40	2.172,578						341,107
	FC40	2.179,933						341,231
V-41			18,523	1.200,000		3,762	92,432	
	PC41	2.187,289						341,571
	FC41	2.195,719						341,960
V-42								
	PC42	2.199,683						342,143
	FC42	2.203,648						342,328
V-43								
	PC43	2.280,718						345,919
	FC43	2.287,044						346,214
V-44								
	PC44	2.293,371						346,513
	FC44	2.356,762						349,507
V-45								
	PC45	2.363,267						349,814
	FC45	2.369,771						350,150
V-46								
	PC46	2.413,942						352,427
	FC46	2.425,322						353,014
V-47								
	PC47	2.436,703						353,385
	FC47	2.557,933						357,337
V-48								
	PC48	2.570,489						357,746
	FC48	2.583,045						358,219
V-49								
	PC49	2.675,477						361,696
	FC49	2.684,739						362,045

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
	FC41	2.694,001						362,250
V-42	PC42	2.792,624				2,219	98,623	364,438
		2.822,044	58,842		2.400,000			365,091
	FC42	2.851,465				4,670	118,721	366,465
V-43	PC43	2.970,186		1.200,000				372,010
		2.981,683	22,995					372,546
	FC43	2.993,181				2,754	50,806	372,863
V-44	PC44	3.043,987			1.000,000			374,262
		3.063,422	38,870					374,798
	FC44	3.082,857				6,641	2,105	376,088
V-45	PC45	3.084,962		300,000				376,228
		3.089,289	8,653					376,515
	FC45	3.093,615				3,757	179,386	376,678
V-46	PC46	3.273,001			2.500,000			383,417
		3.287,794	29,587					383,973
	FC46	3.302,588				4,940	1,823	384,703
V-47	PC47	3.304,410		1.125,000				384,793
		3.343,461	78,101			-2,002	29,938	386,723
	FC47	3.382,512						385,941
V-48	PC48	3.412,450			850,000			385,341
		3.423,100	21,300					385,128
	FC48	3.433,750				0,504	0,260	385,182
V-49	PC49	3.434,010			850,000			385,183
		3.443,356	18,691					385,230
	FC49	3.452,701				2,703	13,361	385,483
V-50	PC50	3.466,062			2.500,000			385,844
		3.502,139	72,154			5,589	70,098	386,819
	FC50	3.538,216						388,835
V-51	PC51	3.608,314		1.200,000				392,753
		3.625,561	34,494			2,714	59,196	393,716
	FC51	3.642,808						394,185
V-52	PC52	3.702,004		300,000				395,791
		3.704,567	5,126			1,006	1,265	395,861
	FC52	3.707,130						395,887
V-53	PC53	3.708,395			2.000,000			395,899
		3.733,900	51,011			3,556	71,765	396,156
	FC53	3.759,405						397,063
V-54	PC54	3.831,170		2.400,000				399,615
		3.835,289	8,237			3,213	19,059	399,761
	FC54	3.839,408						399,894
V-55	PC55	3.858,466		325,000				400,506
		3.864,500	12,067			-0,500	1,434	400,700
	FC55	3.870,534						400,670
V-56	PC56	3.871,968		730,000				400,663
		3.884,500	25,064			-3,933	77,045	400,600
	FC56	3.897,032						400,107
V-57	PC57	3.974,077			2.500,000			397,077
		3.984,883	21,613			-3,069	100,116	396,651
	FC57	3.995,690						396,320
V-58	PC58	4.095,806			2.500,000			393,247
		4.123,550	55,489			-0,849	112,356	392,396
	FC58	4.151,294						392,160
V-59	PC59	4.263,650		5.000,000				391,206
		4.282,494	37,689			-1,603	44,634	391,046
	FC59	4.301,339						390,744
V-60	PC60	4.345,973		1.200,000				390,028
		4.361,750	31,554			-4,233	61,640	389,775
	FC60	4.377,527						389,108
V-61	PC61	4.439,167		5.000,000				386,499
		4.455,072	31,811			-4,869	88,301	385,825
	FC61	4.470,978						385,051
V-62	PC62	4.559,279			1.600,000			380,752
		4.575,794	33,032					379,948
	FC62	4.592,310				-2,804	6,851	379,484

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-63	PC63	4.599,162	42,954		1.300,000	0,500	2,193	379,292
		4.620,639						378,690
	FC63	4.642,116						378,797
V-64	PC64	4.644,310	32,692		1.300,000	3,015	37,903	378,808
		4.660,656						378,890
	FC64	4.677,002						379,383
V-65	PC65	4.714,904	10,058	400,000		0,500	7,111	380,525
		4.719,933						380,677
	FC65	4.724,962						380,702
V-66	PC66	4.732,074	15,719	500,000		-2,644	42,412	380,738
		4.739,933						380,777
	FC66	4.747,793						380,569
V-67	PC67	4.790,205	19,235		300,000	3,768	-0,002	379,448
		4.799,822						379,194
	FC67	4.809,440						379,556
V-68	PC68	4.809,438	20,913	490,000		-0,500	43,538	379,556
		4.819,894						379,950
	FC68	4.830,351						379,898
V-69	PC69	4.873,889	92,056		1.300,000	6,581	0,111	379,680
		4.919,917						379,450
	FC69	4.965,945						382,479
V-70	PC70	4.966,056	24,110	400,000		0,554	35,234	382,487
		4.978,111						383,280
	FC70	4.990,166						383,347
V-71	PC71	5.025,400	25,144	1.000,000		-1,961	97,505	383,542
		5.037,972						383,611
	FC71	5.050,544						383,365
V-72	PC72	5.148,050	16,612		300,000	3,577	22,120	381,453
		5.156,356						381,290
	FC72	5.164,661						381,587
V-73	PC73	5.186,781	13,927	600,000		1,255	52,357	382,379
		5.193,744						382,628
	FC73	5.200,708						382,715
V-74	PC74	5.253,064	4,249	600,000		0,547	32,116	383,372
		5.255,189						383,399
	FC74	5.257,313						383,411
V-75	PC75	5.289,430	21,141		800,000	3,190	1,430	383,586
		5.300,000						383,644
	FC75	5.310,570						383,981
V-76	FIN	5.312,000						384,027

VISIBILIDAD

Velocidad de curvas circulares , distancia de parada y visibilidad: sentido creciente de los PP.KK.

Curva Circular	P.K. final (m)	Radio (m)	Criterio	Peralte (%)	f t max para Vp = 40 km/h	Velocidad específica (km/h)	Velocidad máxima (km/h)	Ve ≥ Vmax (km/h)	Inclinación de la rasante (%)	Coeficiente de rozamiento longitudinal (fl) según Ve		Distancia de parada (m)	Visibilidad Clip h=0,5 desp = 100 (m)
24 CI	575,339	67,000	$50 \leq R \leq 350$	7,000	0,180	46,12	40	Sí					30
28 CI	633,082	100,000	$50 \leq R \leq 350$	7,000	0,180	56,35	40	Sí	4,964	0,398	$50 \leq v \leq 60$	59,25	190
32 CI	678,265	85,000	$50 \leq R \leq 350$	7,000	0,180	51,95	40	Sí	4,296	0,407	$50 \leq v \leq 60$	52,48	150
36 CI	741,549	58,000	$50 \leq R \leq 350$	7,000	0,180	42,91	40	Sí	4,296	0,426	$40 \leq v \leq 50$	39,30	50
40 CI	796,019	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	4,296	0,432	$v \leq 40$	35,29	210
44 CI	872,169	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	5,611	0,432	$v \leq 40$	34,94	110
48 CI	984,338	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	4,388	0,432	$v \leq 40$	35,27	170
52 CI	1131,346	20,000	$50 \leq R \leq 350$	7,000	0,180	25,20	40	No	6,976	0,432	$v \leq 40$	18,98	90
56 CI	1260,671	55,000	$50 \leq R \leq 350$	7,000	0,180	41,79	40	Sí	6,536	0,428	$40 \leq v \leq 50$	37,14	70
60 CI	1315,784	80,000	$50 \leq R \leq 350$	7,000	0,180	50,40	40	Sí	1,282	0,410	$50 \leq v \leq 60$	51,64	214
64 CI	1433,598	74,000	$50 \leq R \leq 350$	7,000	0,180	48,47	40	Sí	3,086	0,414	$40 \leq v \leq 50$	47,71	112
68 CI	1487,729	110,000	$50 \leq R \leq 350$	7,000	0,180	59,10	40	Sí	3,203	0,392	$50 \leq v \leq 60$	65,27	158
72 CI	1937,845	80,000	$50 \leq R \leq 350$	7,000	0,180	50,40	50	Sí	2,714	0,410	$50 \leq v \leq 60$	50,87	310
76 CI	2228,703	54,000	$50 \leq R \leq 350$	7,000	0,180	41,41	40	Sí	4,660	0,429	$40 \leq v \leq 50$	37,19	90
80 CI	2281,466	57,000	$50 \leq R \leq 350$	7,000	0,180	42,54	40	Sí	4,660	0,427	$40 \leq v \leq 50$	38,69	290
84 CI	2361,858	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	4,723	0,432	$v \leq 40$	35,18	187
88 CI	2435,438	30,000	$50 \leq R \leq 350$	7,000	0,180	30,86	40	No	3,260	0,432	$v \leq 40$	25,22	110
92 CI	2536,970	56,000	$50 \leq R \leq 350$	7,000	0,180	42,17	40	Sí	3,260	0,427	$40 \leq v \leq 50$	38,64	270
96 CI	2697,443	67,000	$50 \leq R \leq 350$	7,000	0,180	46,12	40	Sí	2,219	0,419	$40 \leq v \leq 50$	44,60	570
100 CI	3018,758	100,000	$50 \leq R \leq 350$	7,000	0,180	56,35	60	No	2,754	0,398	$50 \leq v \leq 60$	60,70	353
102 CI	3453,010	21858,406	Sin considerar				70						350
104 CI	3463,602	151,000	$50 \leq R \leq 350$	7,000	0,180	69,24	70	No	2,703	0,392	$60 \leq v \leq 70$	83,56	350
108 CI	3665,274	151,000	$50 \leq R \leq 350$	7,000	0,180	69,24	40	Sí	2,714	0,392	$60 \leq v \leq 70$	83,54	233
112 CI	3715,264	100,000	$50 \leq R \leq 350$	7,000	0,180	56,35	40	Sí	1,006	0,398	$50 \leq v \leq 60$	61,96	197
116 CI	3832,321	120,000	$50 \leq R \leq 350$	7,000	0,180	61,73	60	Sí	3,556	0,407	$60 \leq v \leq 70$	68,16	77
120 CI	3889,312	180,000	$50 \leq R \leq 350$	7,000	0,180	75,60	60	Sí	-3,933	0,357	$70 \leq v \leq 80$	112,77	210
124 CI	3957,852	125,000	$50 \leq R \leq 350$	7,000	0,180	63,00	60	Sí	-3,933	0,405	$60 \leq v \leq 70$	77,76	150
128 CI	4023,045	84,000	$50 \leq R \leq 350$	7,000	0,180	51,64	40	Sí	-3,069	0,408	$50 \leq v \leq 60$	56,55	90
132 CI	4131,393	57,000	$50 \leq R \leq 350$	7,000	0,180	42,54	40	Sí	-0,849	0,427	$40 \leq v \leq 50$	40,67	310
134 CI	4144,129	80,000	$50 \leq R \leq 350$	7,000	0,180	50,40	40	Sí	-0,849	0,410	$50 \leq v \leq 60$	52,89	310

136 CI	4168,016	90,000	$50 \leq R \leq 350$	7,000	0,180	53,46	40	Sí	-0,849	0,404	$50 \leq v \leq 60$	58,16	290
140 CI	4275,469	61,000	$50 \leq R \leq 350$	7,000	0,180	44,01	40	Sí	-0,849	0,424	$40 \leq v \leq 50$	42,82	152
144 CI	4343,559	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-1,603	0,432	$v \leq 40$	37,16	90
148 CI	4461,616	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-4,869	0,432	$v \leq 40$	38,43	90
152 CI	4541,694	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-4,869	0,432	$v \leq 40$	38,43	250
156 CI	4618,778	75,000	$50 \leq R \leq 350$	7,000	0,180	48,80	40	Sí	-2,804	0,414	$40 \leq v \leq 50$	51,43	158
160 CI	4698,617	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	3,015	0,432	$v \leq 40$	35,66	90
164 CI	4770,168	70,000	$50 \leq R \leq 350$	7,000	0,180	47,14	40	Sí	-2,644	0,417	$40 \leq v \leq 50$	48,59	90
168 CI	4847,760	52,000	$50 \leq R \leq 350$	7,000	0,180	40,63	40	Sí	-0,500	0,431	$40 \leq v \leq 50$	37,84	150
172 CI	4915,473	76,800	$50 \leq R \leq 350$	7,000	0,180	49,38	40	Sí	-0,500	0,412	$40 \leq v \leq 50$	51,00	70
176 CI	4985,166	52,000	$50 \leq R \leq 350$	7,000	0,180	40,63	40	Sí	0,554	0,431	$40 \leq v \leq 50$	37,47	323
180 CI	5027,086	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	0,554	0,432	$v \leq 40$	36,42	283
184 CI	5157,816	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	3,577	0,432	$v \leq 40$	35,50	162
188 CI	5287,034	55,000	$50 \leq R \leq 350$	7,000	0,180	41,79	40	Sí	0,547	0,428	$40 \leq v \leq 50$	39,07	41

VISIBILIDAD

Velocidad de curvas circulares , distancia de parada y visibilidad: sentido decreciente de los PP.KK.

Curva Circular	P.K. final (m)	Radio (m)	Criterio	Peralte (%)	f t max para Vp = 40 km/h	Velocidad específica (km/h)	Velocidad máxima (km/h)	Ve ≥ Vmax (km/h)	Inclinación de la rasante (%)	Coeficiente de rozamiento longitudinal (fl) según Ve		Distancia de parada (m)	Visibilidad Clip h=0,5 desp = 100 (m)
24 CI	575,339	67,000	$50 \leq R \leq 350$	7,000	0,180	46,12	40	Sí					30
28 CI	633,082	100,000	$50 \leq R \leq 350$	7,000	0,180	56,35	40	Sí	-4,964	0,398	$50 \leq v \leq 60$	67,22	190
32 CI	678,265	85,000	$50 \leq R \leq 350$	7,000	0,180	51,95	40	Sí	-4,296	0,407	$50 \leq v \leq 60$	58,05	150
36 CI	741,549	58,000	$50 \leq R \leq 350$	7,000	0,180	42,91	40	Sí	-4,296	0,426	$40 \leq v \leq 50$	42,77	50
40 CI	796,019	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-4,296	0,432	$v \leq 40$	38,20	210
44 CI	872,169	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-5,611	0,432	$v \leq 40$	38,76	110
48 CI	984,338	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-4,388	0,432	$v \leq 40$	38,24	170
52 CI	1131,346	20,000	$50 \leq R \leq 350$	7,000	0,180	25,20	40	No	-6,976	0,432	$v \leq 40$	20,90	90
56 CI	1260,671	55,000	$50 \leq R \leq 350$	7,000	0,180	41,79	40	Sí	-6,536	0,428	$40 \leq v \leq 50$	42,16	70
60 CI	1315,784	80,000	$50 \leq R \leq 350$	7,000	0,180	50,40	40	Sí	-1,282	0,410	$50 \leq v \leq 60$	53,17	214
64 CI	1433,598	74,000	$50 \leq R \leq 350$	7,000	0,180	48,47	40	Sí	-3,086	0,414	$40 \leq v \leq 50$	51,06	112
68 CI	1487,729	110,000	$50 \leq R \leq 350$	7,000	0,180	59,10	40	Sí	-3,203	0,392	$50 \leq v \leq 60$	71,04	158
72 CI	1937,845	80,000	$50 \leq R \leq 350$	7,000	0,180	50,40	50	Sí	-2,714	0,410	$50 \leq v \leq 60$	54,11	310
76 CI	2228,703	54,000	$50 \leq R \leq 350$	7,000	0,180	41,41	40	Sí	-4,660	0,429	$40 \leq v \leq 50$	40,65	90
80 CI	2281,466	57,000	$50 \leq R \leq 350$	7,000	0,180	42,54	40	Sí	-4,660	0,427	$40 \leq v \leq 50$	42,38	290
84 CI	2361,858	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-4,723	0,432	$v \leq 40$	38,38	187
88 CI	2435,438	30,000	$50 \leq R \leq 350$	7,000	0,180	30,86	40	No	-3,260	0,432	$v \leq 40$	26,53	110
92 CI	2536,970	56,000	$50 \leq R \leq 350$	7,000	0,180	42,17	40	Sí	-3,260	0,427	$40 \leq v \leq 50$	41,15	270
96 CI	2697,443	67,000	$50 \leq R \leq 350$	7,000	0,180	46,12	40	Sí	-2,219	0,419	$40 \leq v \leq 50$	46,72	570
100 CI	3018,758	100,000	$50 \leq R \leq 350$	7,000	0,180	56,35	60	No	-2,754	0,398	$50 \leq v \leq 60$	65,08	353
102 CI	3453,010	21858,406	Sin considerar				70						350
104 CI	3463,602	151,000	$50 \leq R \leq 350$	7,000	0,180	69,24	70	No	-2,703	0,392	$60 \leq v \leq 70$	90,24	350
108 CI	3665,274	151,000	$50 \leq R \leq 350$	7,000	0,180	69,24	40	Sí	-2,714	0,392	$60 \leq v \leq 70$	90,26	233
112 CI	3715,264	100,000	$50 \leq R \leq 350$	7,000	0,180	56,35	40	Sí	-1,006	0,398	$50 \leq v \leq 60$	63,55	197
116 CI	3832,321	120,000	$50 \leq R \leq 350$	7,000	0,180	61,73	60	Sí	-3,556	0,407	$60 \leq v \leq 70$	74,63	77
120 CI	3889,312	180,000	$50 \leq R \leq 350$	7,000	0,180	75,60	60	Sí	3,933	0,357	$70 \leq v \leq 80$	98,73	210
124 CI	3957,852	125,000	$50 \leq R \leq 350$	7,000	0,180	63,00	60	Sí	3,933	0,405	$60 \leq v \leq 70$	70,19	150
128 CI	4023,045	84,000	$50 \leq R \leq 350$	7,000	0,180	51,64	40	Sí	3,069	0,408	$50 \leq v \leq 60$	52,65	90
132 CI	4131,393	57,000	$50 \leq R \leq 350$	7,000	0,180	42,54	40	Sí	0,849	0,427	$40 \leq v \leq 50$	40,01	310
134 CI	4144,129	80,000	$50 \leq R \leq 350$	7,000	0,180	50,40	40	Sí	0,849	0,410	$50 \leq v \leq 60$	51,89	310

136 CI	4168,016	90,000	$50 \leq R \leq 350$	7,000	0,180	53,46	40	Sí	0,849	0,404	$50 \leq v \leq 60$	56,99	290
140 CI	4275,469	61,000	$50 \leq R \leq 350$	7,000	0,180	44,01	40	Sí	0,849	0,424	$40 \leq v \leq 50$	42,10	152
144 CI	4343,559	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	1,603	0,432	$v \leq 40$	36,09	90
148 CI	4461,616	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	4,869	0,432	$v \leq 40$	35,13	90
152 CI	4541,694	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	4,869	0,432	$v \leq 40$	35,13	250
156 CI	4618,778	75,000	$50 \leq R \leq 350$	7,000	0,180	48,80	40	Sí	2,804	0,414	$40 \leq v \leq 50$	48,34	158
160 CI	4698,617	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-3,015	0,432	$v \leq 40$	37,69	90
164 CI	4770,168	70,000	$50 \leq R \leq 350$	7,000	0,180	47,14	40	Sí	2,644	0,417	$40 \leq v \leq 50$	45,92	90
168 CI	4847,760	52,000	$50 \leq R \leq 350$	7,000	0,180	40,63	40	Sí	0,500	0,431	$40 \leq v \leq 50$	37,49	150
172 CI	4915,473	76,800	$50 \leq R \leq 350$	7,000	0,180	49,38	40	Sí	0,500	0,412	$40 \leq v \leq 50$	50,44	70
176 CI	4985,166	52,000	$50 \leq R \leq 350$	7,000	0,180	40,63	40	Sí	-0,554	0,431	$40 \leq v \leq 50$	37,86	323
180 CI	5027,086	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-0,554	0,432	$v \leq 40$	36,79	283
184 CI	5157,816	50,000	$50 \leq R \leq 350$	7,000	0,180	39,84	40	No	-3,577	0,432	$v \leq 40$	37,91	162
188 CI	5287,034	55,000	$50 \leq R \leq 350$	7,000	0,180	41,79	40	Sí	-0,547	0,428	$40 \leq v \leq 50$	39,48	41