

# **DESCRIPCIÓN DE LA SITUACIÓN ACTUAL**

## **ANEJO 1 ANÁLISIS GEOMÉTRICO**

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	697.107,969
2	Móvil	-7,500		2,739	4.362.625,990	4.362.711,202
3	Fijo	Infinito		2,739		
4	Móvil	5,000		2,236	697.096,490	697.053,066
5	Fijo	Infinito		2,236	4.362.720,271	4.362.714,901
6	Móvil	-10,000		5,000	697.042,621	697.043,780
7	Fijo	Infinito		5,000	4.362.719,260	4.362.733,546
8	Móvil	-38,000		19,494	697.037,548	696.936,934
9	Fijo	Infinito		19,494	4.362.749,387	4.362.852,112
10	Móvil	500,000		70,711	696.899,455	696.872,153
11	Fijo	Infinito		70,711	4.362.866,214	4.362.864,336
12	Móvil	37,500		25,249	696.865,307	696.747,104
13	Fijo	Infinito		25,249	4.362.864,137	4.362.863,896
14	Móvil	100,000		31,623	696.705,289	696.689,449
15	Fijo	Infinito		31,623	4.362.881,043	4.362.899,968
16	Móvil	85,000		29,155	696.670,887	696.664,401
17	Fijo	Infinito		29,155	4.362.929,588	4.362.945,570
18	Móvil	43,000		18,547	696.657,962	696.656,883
19	Fijo	Infinito		18,547	4.362.972,876	4.362.988,822
20	Móvil	-41,000		22,181	696.665,225	696.670,780
21	Fijo	Infinito		22,181	4.363.023,125	4.363.030,014
22	Móvil	34,000		23,324	696.677,825	696.657,872
23	Fijo	Infinito		8,246	4.363.079,972	4.363.128,862
24	Móvil	-45,000		21,213	696.656,308	696.680,084
25	Fijo	Infinito		45,000	4.363.161,883	4.363.217,821
26	Móvil	16,750		9,152	696.659,066	696.601,237
27	Fijo	Infinito		16,875	4.363.284,345	4.363.339,176
28	Móvil	-63,500		14,999	696.612,598	696.623,889
29	Fijo	-32,069		6,999	4.363.374,329	4.363.375,926
30	Móvil	-45,000		10,000	696.663,753	696.667,308
31	Fijo	-86,465		10,001	4.363.392,796	4.363.396,296
32	Móvil	-36,000		9,999	696.676,272	696.678,605
33	Fijo	-185,000		9,999	4.363.411,653	4.363.419,376
34	Móvil	-70,000		39,999	696.678,425	696.671,719
35	Fijo	Infinito		59,000	4.363.446,587	4.363.462,969
36	Móvil	74,000		36,497	696.622,641	696.594,641
37	Fijo	Infinito		36,497	4.363.511,336	4.363.527,781
38	Móvil	-300,000			696.543,681	696.534,574
39	Fijo	Infinito			4.363.574,001	4.363.590,901
40	Móvil	800,000			696.508,502	696.352,135
					4.363.631,201	4.363.842,412

<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			696.316,492 4.363.894,847	696.275,986 4.363.957,688
42	Móvil	80,000		44,721 44,721		
43	Fijo	Infinito			696.256,720 4.364.017,343	696.253,637 4.364.061,842
44	Móvil	-500,000				
45	Fijo	Infinito			696.247,495 4.364.108,541	696.226,795 4.364.225,264
46	Móvil	-46,000		21,448 21,448		
47	Fijo	Infinito			696.202,550 4.364.262,554	696.183,328 4.364.275,221
48	Móvil	-57,000		36,986 36,986		
49	Fijo	Infinito			696.139,605 4.364.289,482	696.101,588 4.364.292,169
50	Móvil	80,000		25,298 25,298		
51	Fijo	Infinito			696.070,484 4.364.300,882	696.040,641 4.364.316,516
52	Móvil	19,000		19,494 19,494		
53	Fijo	Infinito			696.021,431 4.364.355,409	696.024,431 4.364.370,743
54	Móvil	-56,000		33,466 33,466		
55	Fijo	Infinito			695.985,597 4.364.442,647	695.975,595 4.364.447,448
56	Móvil	300,000				
57	Fijo	Infinito			695.937,875 4.364.467,793	695.902,874 4.364.488,684
58	Móvil	57,000		41,352 38,497		
59	Fijo	Infinito			695.865,946 4.364.548,768	695.840,339 4.364.801,360
60	Móvil	-100,000		50,000 50,114 50,114		
61	Fijo	-22.054,764			695.819,295 4.364.861,589	695.537,487 4.365.334,359
62	Móvil	55,000		40,000 40,000		
63	Fijo	392,194		40,000 16,384 16,384	695.519,572 4.365.388,712	695.523,916 4.365.444,284
64	Móvil	100,000		14,142		
65	Fijo	Infinito			695.525,084 4.365.449,835	695.540,424 4.365.518,256
66	Móvil	-115,000		41,533 42,766 42,766		
67	Fijo	-2.024,126			695.543,259 4.365.571,507	695.537,704 4.365.606,730
68	Móvil	-180,000		19,878 19,878 18,974		
69	Fijo	Infinito			695.532,601 4.365.628,442	695.525,354 4.365.656,466
70	Móvil	125,000		35,355 35,355		
71	Fijo	Infinito			695.520,284 4.365.700,203	695.520,173 4.365.715,759
72	Móvil	-160,000		69,282 69,282		
73	Fijo	Infinito			695.508,170 4.365.784,894	695.503,559 4.365.800,002
74	Móvil	-37,500		23,717 30,287 30,287		
75	Fijo	-96,954			695.481,924 4.365.829,682	695.463,591 4.365.836,293
76	Móvil	-75,000		25,738 25,738 51,235		
77	Fijo	Infinito			695.411,416 4.365.833,575	695.368,200 4.365.823,793
78	Móvil	37,000		20,000 20,000		
79	Fijo	Infinito			695.327,994 4.365.830,631	695.300,661 4.365.852,852
80	Móvil	45,000		21,213 27,571 27,571		
81	Fijo	110,293			695.279,073 4.365.887,436	695.278,767 4.365.908,020
82	Móvil	44,000		12,100 12,100 9,381		
83	Fijo	Infinito			695.280,884 4.365.919,109	695.283,128 4.365.926,066
84	Móvil	-54,000		23,238 23,238		

<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			695.285,622 4.365.958,321	695.284,508 4.365.965,503
86	Móvil	40,000		4,472 6,933		
87	Fijo	68,500		6,933 16,511	695.283,342 4.365.975,186	695.283,397 4.365.982,130
88	Móvil	19,500		16,511 13,964		
89	Fijo	Infinito			695.297,910 4.366.003,915	695.310,645 4.366.010,967
90	Móvil	-110,000		20,976 31,269		
91	Fijo	-200,000		31,269 27,634	695.320,160 4.366.016,557	695.333,496 4.366.026,264
92	Móvil	-35,000		27,634 25,100		
93	Fijo	Infinito			695.351,998 4.366.061,781	695.357,622 4.366.098,731
94	Móvil	-90,000		40,249 40,249		
95	Fijo	Infinito			695.357,183 4.366.146,562	695.353,960 4.366.161,228
96	Móvil	39,000		12,490 12,490		
97	Fijo	Infinito			695.364,932 4.366.210,922	695.369,710 4.366.216,256
98	Móvil	-70,000		18,708 18,708		
99	Fijo	Infinito			695.387,977 4.366.275,157	695.383,968 4.366.316,036
100	Móvil	-51,500		26,851 26,851		
101	Fijo	30,673			695.360,611 4.366.354,864	695.357,607 4.366.357,515
102	Móvil	76,800		7,146 7,146		
103	Fijo	752,745		20,679 20,679	695.335,670 4.366.406,566	695.334,285 4.366.417,039
104	Móvil	-32,000		29,933 12,649		
105	Fijo	Infinito			695.309,881 4.366.457,334	695.293,412 4.366.463,729
106	Móvil	47,000		15,330 18,138		
107	Fijo	Infinito			695.268,943 4.366.482,300	695.215,387 4.366.557,745
108	Móvil	30,000		28,000 28,000		
109	Fijo	Infinito			695.207,185 4.366.612,096	695.237,386 4.366.688,898
110	Móvil	-55,000		30,577 35,951		
111	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	4.362.863,922	299,8702		
0+540	696.739,809	4.362.863,940	301,7136		
0+560	696.720,451	4.362.868,206	329,7080		
0+580	696.705,305	4.362.881,046	354,9241		
0+600	696.692,458	4.362.896,373	355,6345		
0+620	696.680,151	4.362.912,123	362,7835		
0+640	696.670,830	4.362.929,782	374,6903		
0+660	696.663,351	4.362.948,331	377,2586		
0+680	696.658,515	4.362.967,690	391,8864		
0+700	696.656,964	4.362.987,627	395,6988		
0+720	696.657,788	4.363.007,506	15,6903		
0+740	696.666,863	4.363.025,143	42,5845		
0+760	696.678,482	4.363.041,368	29,2197		
0+780	696.682,709	4.363.060,714	398,1651		
0+800	696.677,822	4.363.079,978	375,3640		
0+820	696.670,265	4.363.098,496	375,3318		
0+840	696.662,708	4.363.117,013	375,3318		
0+860	696.655,347	4.363.135,605	379,8881		
0+880	696.654,094	4.363.155,304	14,3233		
0+900	696.661,412	4.363.173,891	25,5861		
0+920	696.669,235	4.363.192,298	25,5861		
0+940	696.677,059	4.363.210,704	25,5861		
0+960	696.683,875	4.363.229,463	12,3239		
0+980	696.683,307	4.363.249,291	384,0297		
1+000	696.674,622	4.363.267,178	360,4121		
1+020	696.661,362	4.363.282,115	349,2508		
1+040	696.646,875	4.363.295,904	348,3063		
1+060	696.632,362	4.363.309,665	348,3063		
1+080	696.617,848	4.363.323,426	348,3063		
1+100	696.603,335	4.363.337,187	348,3063		
1+120	696.591,463	4.363.352,793	387,6275		
1+140	696.598,843	4.363.370,121	63,4564		
1+160	696.618,042	4.363.375,099	91,0550		
1+180	696.637,751	4.363.378,410	82,9801		
1+200	696.655,898	4.363.386,619	62,9291		
1+220	696.670,420	4.363.400,205	39,1767		
1+240	696.678,363	4.363.418,436	16,4203		
1+260	696.680,495	4.363.438,198	392,1294		
1+280	696.674,311	4.363.457,153	374,4091		
1+300	696.665,363	4.363.475,020	364,8281		
1+320	696.652,664	4.363.490,391	347,7992		
1+340	696.636,853	4.363.502,601	337,1491		
1+360	696.619,782	4.363.513,015	333,8074		
1+380	696.602,536	4.363.523,144	333,8074		
1+400	696.585,291	4.363.533,273	333,8074		
1+420	696.568,338	4.363.543,867	340,2225		
1+440	696.553,968	4.363.557,690	357,3661		
1+460	696.543,354	4.363.574,609	368,4404		
1+480	696.533,861	4.363.592,213	368,1603		
1+500	696.523,693	4.363.609,430	363,9162		

<u>Estación</u>	<u>Coor. X</u>	<u>Coor. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>
1+520	696.512,400	4.363.625,933	359,6721		
1+540	696.500,501	4.363.642,008	359,4290		
1+560	696.488,601	4.363.658,082	359,4290		
1+580	696.476,700	4.363.674,157	359,4290		
1+600	696.464,800	4.363.690,231	359,4290		
1+620	696.452,900	4.363.706,305	359,4290		
1+640	696.440,999	4.363.722,379	359,4290		
1+660	696.429,099	4.363.738,454	359,4290		
1+680	696.417,199	4.363.754,528	359,4290		
1+700	696.405,298	4.363.770,602	359,4290		
1+720	696.393,398	4.363.786,676	359,4290		
1+740	696.381,498	4.363.802,751	359,4290		
1+760	696.369,597	4.363.818,825	359,4290		
1+780	696.357,697	4.363.834,899	359,4290		
1+800	696.345,877	4.363.851,032	360,4307		
1+820	696.334,435	4.363.867,435	362,0223		
1+840	696.323,407	4.363.884,119	363,5500		
1+860	696.312,571	4.363.900,930	363,5500		
1+880	696.301,736	4.363.917,740	363,5500		
1+900	696.290,900	4.363.934,551	363,5500		
1+920	696.280,064	4.363.951,361	363,5500		
1+940	696.269,436	4.363.968,301	366,8145		
1+960	696.261,304	4.363.986,525	380,9153		
1+980	696.257,605	4.364.006,144	393,6885		
2+000	696.256,114	4.364.026,088	395,5964		
2+020	696.254,732	4.364.046,040	395,5964		
2+040	696.253,230	4.364.065,983	394,2056		
2+060	696.251,015	4.364.085,859	391,6591		
2+080	696.248,006	4.364.105,630	389,1126		
2+100	696.244,519	4.364.125,323	388,8262		
2+120	696.241,026	4.364.145,016	388,8262		
2+140	696.237,534	4.364.164,709	388,8262		
2+160	696.234,042	4.364.184,402	388,8262		
2+180	696.230,549	4.364.204,094	388,8262		
2+200	696.227,057	4.364.223,787	388,8262		
2+220	696.221,484	4.364.242,899	369,7020		
2+240	696.208,803	4.364.258,161	342,1661		
2+260	696.192,233	4.364.269,353	337,0936		
2+280	696.175,369	4.364.280,098	332,7833		
2+300	696.156,820	4.364.287,350	313,4118		
2+320	696.136,973	4.364.289,668	304,4921		
2+340	696.117,022	4.364.291,078	304,4921		
2+360	696.097,086	4.364.292,646	308,0571		
2+380	696.077,766	4.364.297,612	323,9726		
2+400	696.059,840	4.364.306,458	330,7210		
2+420	696.042,124	4.364.315,739	330,7210		
2+440	696.025,314	4.364.326,407	351,0733		
2+460	696.019,671	4.364.344,879	5,8714		
2+480	696.023,220	4.364.364,554	12,2997		
2+500	696.026,258	4.364.384,305	3,4931		
2+520	696.023,852	4.364.404,053	380,9199		
2+540	696.014,696	4.364.421,714	358,1835		
2+560	695.999,948	4.364.435,068	335,8750		
2+580	695.982,206	4.364.444,274	328,4902		
2+600	695.964,200	4.364.452,977	329,6951		
2+620	695.946,649	4.364.462,560	333,9393		
2+640	695.929,474	4.364.472,808	334,2574		
2+660	695.912,300	4.364.483,058	334,2574		
2+680	695.895,285	4.364.493,563	338,1955		
2+700	695.880,347	4.364.506,759	356,0869		
2+720	695.870,558	4.364.524,082	378,4244		
2+740	695.866,500	4.364.543,622	392,6441		
2+760	695.864,451	4.364.563,517	393,5681		
2+780	695.862,434	4.364.583,415	393,5681		
2+800	695.860,416	4.364.603,313	393,5681		
2+820	695.858,399	4.364.623,211	393,5681		
2+840	695.856,382	4.364.643,109	393,5681		
2+860	695.854,365	4.364.663,007	393,5681		
2+880	695.852,348	4.364.682,905	393,5681		
2+900	695.850,330	4.364.702,803	393,5681		
2+920	695.848,313	4.364.722,701	393,5681		
2+940	695.846,296	4.364.742,599	393,5681		
2+960	695.844,279	4.364.762,497	393,5681		
2+980	695.842,262	4.364.782,395	393,5681		
3+000	695.840,231	4.364.802,292	393,1249		
3+020	695.837,081	4.364.822,028	385,0373		
3+040	695.830,519	4.364.840,886	372,4660		
3+060	695.821,079	4.364.858,509	366,6105		
3+080	695.811,048	4.364.875,812	366,5266		
3+100	695.801,003	4.364.893,106	366,4689		
3+120	695.790,941	4.364.910,391	366,4112		
3+140	695.780,864	4.364.927,667	366,3534		
3+160	695.770,771	4.364.944,933	366,2957		
3+180	695.760,662	4.364.962,191	366,2380		
3+200	695.750,538	4.364.979,439	366,1803		
3+220	695.740,398	4.364.996,678	366,1225		
3+240	695.730,243	4.365.013,908	366,0648		
3+260	695.720,072	4.365.031,128	366,0071		

<u>Estación</u>	<u>Coor. X</u>	<u>Coor. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>
3+280	695.709,885	4.365.048,339	365,9493		
3+300	695.699,682	4.365.065,542	365,8916		
3+320	695.689,465	4.365.082,734	365,8339		
3+340	695.679,231	4.365.099,918	365,7761		
3+360	695.668,982	4.365.117,092	365,7184		
3+380	695.658,717	4.365.134,257	365,6607		
3+400	695.648,437	4.365.151,413	365,6029		
3+420	695.638,141	4.365.168,559	365,5452		
3+440	695.627,830	4.365.185,696	365,4875		
3+460	695.617,503	4.365.202,824	365,4297		
3+480	695.607,161	4.365.219,942	365,3720		
3+500	695.596,803	4.365.237,051	365,3143		
3+520	695.586,429	4.365.254,151	365,2566		
3+540	695.576,041	4.365.271,241	365,1988		
3+560	695.565,636	4.365.288,321	365,1411		
3+580	695.555,216	4.365.305,392	365,0834		
3+600	695.544,781	4.365.322,454	365,0256		
3+620	695.534,330	4.365.339,507	365,0266		
3+640	695.524,796	4.365.357,067	374,2942		
3+660	695.520,006	4.365.376,393	394,1895		
3+680	695.519,700	4.365.396,379	1,6832		
3+700	695.520,738	4.365.416,350	4,9296		
3+720	695.522,793	4.365.436,242	8,1761		
3+740	695.526,442	4.365.455,893	14,0408		
3+760	695.530,818	4.365.475,409	14,0408		
3+780	695.535,193	4.365.494,924	14,0408		
3+800	695.539,568	4.365.514,440	14,0408		
3+820	695.543,594	4.365.534,026	9,6359		
3+840	695.544,880	4.365.553,959	398,5643		
3+860	695.542,909	4.365.573,847	390,5777		
3+880	695.539,847	4.365.593,612	389,8992		
3+900	695.536,380	4.365.613,306	386,3142		
3+920	695.531,500	4.365.632,700	383,8900		
3+940	695.526,493	4.365.652,063	383,8900		
3+960	695.522,021	4.365.671,548	389,6759		
3+980	695.520,358	4.365.691,459	399,0574		
4+000	695.520,202	4.365.711,458	399,4646		
4+020	695.519,611	4.365.731,447	395,8844		
4+040	695.517,154	4.365.751,283	388,2071		
4+060	695.512,424	4.365.770,708	382,2211		
4+080	695.506,655	4.365.789,857	381,1419		
4+100	695.500,562	4.365.808,901	375,8361		
4+120	695.489,020	4.365.824,957	343,4828		
4+140	695.471,307	4.365.834,016	320,9078		
4+160	695.451,821	4.365.838,304	305,7134		
4+180	695.431,878	4.365.837,610	291,1389		
4+200	695.412,258	4.365.833,765	285,8392		
4+220	695.392,751	4.365.829,350	285,8288		
4+240	695.373,245	4.365.824,935	285,8288		
4+260	695.353,598	4.365.821,375	298,5271		
4+280	695.334,441	4.365.826,208	332,9390		
4+300	695.318,547	4.365.838,312	343,4558		
4+320	695.303,028	4.365.850,928	343,4558		
4+340	695.288,367	4.365.864,457	357,9191		
4+360	695.279,940	4.365.882,413	386,2099		
4+380	695.278,466	4.365.902,315	1,7056		
4+400	695.281,795	4.365.921,934	19,8636		
4+420	695.286,568	4.365.941,304	5,7219		
4+440	695.285,176	4.365.961,195	390,2035		
4+460	695.283,343	4.365.981,064	2,7402		
4+480	695.290,512	4.365.999,076	54,1897		
4+500	695.307,658	4.366.009,313	67,8050		
4+520	695.324,733	4.366.019,697	60,8045		
4+540	695.340,216	4.366.032,314	48,6058		
4+560	695.349,759	4.366.049,615	16,0773		
4+580	695.353,145	4.366.069,318	9,6159		
4+600	695.356,155	4.366.089,090	9,6159		
4+620	695.359,099	4.366.108,872	8,1619		
4+640	695.359,899	4.366.128,821	395,7500		
4+660	695.356,744	4.366.148,551	386,3475		
4+680	695.352,453	4.366.168,085	386,2286		
4+700	695.351,524	4.366.187,883	12,7068		
4+720	695.360,233	4.366.205,645	45,0113		
4+740	695.373,461	4.366.220,643	42,8040		
4+760	695.383,529	4.366.237,846	24,6149		
4+780	695.388,340	4.366.257,188	6,4257		
4+800	695.387,783	4.366.277,138	393,7766		
4+820	695.385,831	4.366.297,042	393,7766		
4+840	695.383,767	4.366.316,934	391,0524		
4+860	695.377,679	4.366.335,862	367,9961		
4+880	695.364,984	4.366.351,172	345,6752		
4+900	695.350,953	4.366.365,324	359,3499		
4+920	695.341,246	4.366.382,746	375,9285		
4+940	695.336,310	4.366.402,074	390,7960		
4+960	695.333,658	4.366.421,897	391,2851		
4+980	695.328,458	4.366.441,112	370,3170		
5+000	695.314,714	4.366.455,196	330,9022		
5+020	695.296,167	4.366.462,659	323,5794		

<u>Estación</u>	<u>Coor. X</u>	<u>Coor. Y</u>	<u>Acimut</u>	<u>Radio</u>	<u>Parám.</u>
5+040	695.278,545	4.366.471,900	343,1933		
5+060	695.265,587	4.366.487,028	360,7003		
5+080	695.254,010	4.366.503,337	360,7003		
5+100	695.242,432	4.366.519,646	360,7003		
5+120	695.230,855	4.366.535,954	360,7003		
5+140	695.219,278	4.366.552,263	360,7003		
5+160	695.207,884	4.366.568,696	364,8633		
5+180	695.201,314	4.366.587,354	396,8958		
5+200	695.205,162	4.366.606,839	22,5013		
5+220	695.212,443	4.366.625,467	23,8515		
5+240	695.219,762	4.366.644,079	23,8515		
5+260	695.227,081	4.366.662,692	23,8515		
5+280	695.234,400	4.366.681,305	23,8515		
5+300	695.240,859	4.366.700,209	13,7711		
5+320	695.241,596	4.366.720,093	391,9384		
5+340	695.237,611	4.366.739,682	385,4857		
5+357,708	695.233,609	4.366.756,932	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+533,924	101,830	696.745,885	4.362.863,894	299,8702	Infinito			
0+550,924	17,000	696.728,969	4.362.865,139	314,3005	37,500	25,249	696.737,322	4.362.901,697
0+566,772	15,848	696.714,710	4.362.871,781	341,2042	37,500		696.737,322	4.362.901,697
0+583,772	17,000	696.702,873	4.362.883,929	355,6345	Infinito	25,249		
0+603,770	19,998	696.690,038	4.362.899,265	355,6345	Infinito			
0+613,770	10,000	696.683,749	4.362.907,038	358,8177	100,000	31,623	696.763,545	4.362.967,309
0+634,907	21,137	696.672,880	4.362.925,120	372,2737	100,000		696.763,545	4.362.967,309
0+644,907	10,000	696.668,966	4.362.934,322	375,4568	Infinito	31,623		
0+653,064	8,156	696.665,899	4.362.941,879	375,4568	Infinito			
0+663,064	10,000	696.662,321	4.362.951,216	379,2017	85,000	29,155	696.742,825	4.362.978,494
0+680,090	17,026	696.658,503	4.362.967,780	391,9539	85,000		696.742,825	4.362.978,494
0+690,090	10,000	696.657,633	4.362.977,740	395,6988	Infinito	29,155		
0+702,497	12,407	696.656,795	4.362.990,119	395,6988	Infinito			
0+710,497	8,000	696.656,503	4.362.998,110	1,6207	43,000	18,547	696.699,489	4.362.997,015
0+734,582	24,085	696.663,653	4.363.020,781	37,2795	43,000		696.699,489	4.362.997,015
0+742,582	8,000	696.668,478	4.363.027,159	43,2014	Infinito	18,547		
0+744,995	2,413	696.669,992	4.363.029,037	43,2014	Infinito			
0+756,995	12,000	696.677,054	4.363.038,726	33,8851	-41,000	22,181	696.641,726	4.363.059,532
0+788,705	31,710	696.681,539	4.363.069,324	384,6481	-41,000		696.641,726	4.363.059,532
0+800,705	12,000	696.677,556	4.363.080,631	375,3318	Infinito	22,181		
0+851,176	50,470	696.658,485	4.363.127,360	375,3318	Infinito			
0+867,176	16,000	696.653,630	4.363.142,565	390,3114	34,000	23,324	696.687,237	4.363.147,719
0+885,015	17,839	696.655,568	4.363.160,093	23,7138	34,000		696.687,237	4.363.147,719
0+887,015	2,000	696.656,333	4.363.161,941	25,5861	Infinito	8,246		
0+945,626	58,610	696.679,260	4.363.215,881	25,5861	Infinito			
0+955,625	10,000	696.682,826	4.363.225,218	18,5127	-45,000	21,213	696.639,715	4.363.238,120
0+982,751	27,126	696.682,543	4.363.251,933	380,1373	-45,000		696.639,715	4.363.238,120
1+027,751	45,000	696.655,763	4.363.287,476	348,3063	Infinito	45,000		
1+107,154	79,403	696.598,144	4.363.342,109	348,3063	Infinito			
1+112,155	5,001	696.594,694	4.363.345,722	357,8091	16,750	9,152	696.607,898	4.363.356,028
1+138,712	26,558	696.597,788	4.363.369,383	58,7471	16,750		696.607,898	4.363.356,028
1+155,713	17,001	696.613,798	4.363.374,499	91,0550	Infinito	16,875		
1+170,174	14,461	696.628,116	4.363.376,524	91,0550	Infinito			
1+173,717	3,543	696.631,619	4.363.377,053	89,2790	-63,500	14,999	696.620,976	4.363.439,654
1+212,230	38,513	696.665,404	4.363.394,285	50,6674	-63,500		696.620,976	4.363.439,654
1+212,987	0,756	696.665,940	4.363.394,818	49,5379	-32,069	6,999	696.643,100	4.363.417,329
1+213,309	0,322	696.666,165	4.363.395,048	48,8987	-32,069		696.643,100	4.363.417,329
1+214,205	0,896	696.666,779	4.363.395,701	47,3755	-45,000	10,000	696.633,675	4.363.426,182
1+231,304	17,100	696.675,724	4.363.410,154	23,1842	-45,000		696.633,675	4.363.426,182
1+232,370	1,066	696.676,094	4.363.411,154	22,0379	-86,465	10,001	696.594,758	4.363.440,491
1+249,922	17,551	696.680,338	4.363.428,153	9,1152	-86,465		696.594,758	4.363.440,491
1+251,543	1,621	696.680,547	4.363.429,760	7,0853	-36,000	9,999	696.644,770	4.363.433,759
1+266,491	14,948	696.679,120	4.363.444,533	380,6506	-36,000		696.644,770	4.363.433,759
1+268,728	2,237	696.678,402	4.363.446,651	378,2880	-185,000	9,999	696.504,058	4.363.384,773
1+288,354	19,626	696.670,870	4.363.464,764	371,5345	-185,000		696.504,058	4.363.384,773
1+302,561	14,208	696.663,983	4.363.477,177	362,6292	-70,000	39,999	696.605,701	4.363.438,406
1+309,388	6,827	696.659,930	4.363.482,668	356,4204	-70,000		696.605,701	4.363.438,406
1+359,117	49,729	696.620,543	4.363.512,568	333,8074	Infinito	59,000		
1+403,615	44,499	696.582,173	4.363.535,104	333,8074	Infinito			
1+421,616	18,000	696.567,044	4.363.544,835	341,5502	74,000	36,497	696.611,985	4.363.603,625
1+443,982	22,366	696.551,581	4.363.560,877	360,7914	74,000		696.611,985	4.363.603,625
1+461,982	18,000	696.542,413	4.363.576,354	368,5343	Infinito	36,497		
1+478,238	16,256	696.534,702	4.363.590,664	368,5343	Infinito			
1+521,145	42,907	696.511,720	4.363.626,854	359,4290	-300,000		696.270,606	4.363.448,349
1+787,412	266,267	696.353,286	4.363.840,857	359,4290	Infinito			

<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>
1+839,198	51,786	696.323,841	4.363.883,445	363,5500	800,000		696.996,257	4.364.316,870
1+925,678	86,480	696.276,988	4.363.956,134	363,5500	Infinito			
1+950,678	25,000	696.264,569	4.363.977,799	373,4970	80,000	44,721	696.337,736	4.364.010,150
1+965,949	15,271	696.259,760	4.363.992,269	385,6494	80,000		696.337,736	4.364.010,150
1+990,949	25,000	696.256,740	4.364.017,058	395,5964	Infinito	44,721		
2+029,077	38,128	696.254,104	4.364.055,095	395,5964	Infinito			
2+082,250	53,173	696.247,618	4.364.107,846	388,8262	-500,000		695.755,300	4.364.020,537
2+201,181	118,931	696.226,851	4.364.224,950	388,8262	Infinito			
2+211,182	10,000	696.224,750	4.364.234,722	381,9061	-46,000	21,448	696.180,595	4.364.221,823
2+238,562	27,380	696.209,925	4.364.257,261	344,0137	-46,000		696.180,595	4.364.221,823
2+248,562	10,000	696.201,783	4.364.263,059	337,0936	Infinito	21,448		
2+266,390	17,828	696.186,897	4.364.272,869	337,0936	Infinito			
2+290,389	23,999	696.166,023	4.364.284,614	323,6915	-57,000	36,986	696.145,297	4.364.231,516
2+295,580	5,191	696.161,108	4.364.286,279	317,8943	-57,000		696.145,297	4.364.231,516
2+319,579	23,999	696.137,393	4.364.289,638	304,4921	Infinito	36,986		
2+351,520	31,941	696.105,531	4.364.291,890	304,4921	Infinito			
2+359,520	8,000	696.097,563	4.364.292,587	307,6751	80,000	25,298	696.107,184	4.364.372,006
2+384,480	24,960	696.073,648	4.364.299,375	327,5380	80,000		696.107,184	4.364.372,006
2+392,480	8,000	696.066,501	4.364.302,968	330,7210	Infinito	25,298		
2+424,412	31,932	696.038,216	4.364.317,787	330,7210	Infinito			
2+444,413	20,001	696.022,580	4.364.329,861	364,2287	19,000	19,494	696.038,659	4.364.339,984
2+448,760	4,346	696.020,703	4.364.333,771	378,7920	19,000		696.038,659	4.364.339,984
2+468,760	20,001	696.021,062	4.364.353,524	12,2997	Infinito	19,494		
2+482,397	13,637	696.023,680	4.364.366,907	12,2997	Infinito			
2+502,397	20,000	696.026,343	4.364.386,700	0,9318	-56,000	33,466	695.970,349	4.364.387,519
2+556,120	53,723	696.003,164	4.364.432,898	339,8582	-56,000		695.970,349	4.364.387,519
2+576,119	20,000	695.985,705	4.364.442,595	328,4902	Infinito	33,466		
2+594,322	18,203	695.969,295	4.364.450,472	328,4902	Infinito			
2+621,499	27,177	695.945,360	4.364.463,326	334,2574	300,000		696.099,115	4.364.720,929
2+665,455	43,956	695.907,616	4.364.485,854	334,2574	Infinito			
2+695,455	30,000	695.883,376	4.364.503,371	351,0104	57,000	41,352	695.924,315	4.364.543,032
2+720,559	25,104	695.870,375	4.364.524,610	379,0485	57,000		695.924,315	4.364.543,032
2+746,559	26,000	695.865,806	4.364.550,144	393,5681	Infinito	38,497		
2+994,100	247,541	695.840,840	4.364.796,423	393,5681	Infinito			
3+019,100	25,000	695.837,287	4.364.821,152	385,6104	-100,000	50,000	695.739,830	4.364.798,740
3+036,436	17,336	695.831,960	4.364.837,626	374,5741	-100,000		695.739,830	4.364.798,740
3+061,436	25,000	695.820,359	4.364.859,752	366,5802	-22,054,764	50,114	676.735,365	4.353.806,445
3+618,354	556,918	695.535,191	4.365.338,103	364,9727	-22,054,764		676.735,365	4.353.806,445
3+647,445	29,091	695.522,261	4.365.364,062	381,8089	55,000	40,000	695.575,031	4.365.379,565
3+649,600	2,155	695.521,695	4.365.366,141	384,3033	55,000		695.575,031	4.365.379,565
3+674,611	25,011	695.519,594	4.365.390,991	0,8084	392,194	40,000	695.911,757	4.365.386,011
3+723,906	49,295	695.523,312	4.365.440,113	8,8101	392,194		695.911,757	4.365.386,011
3+725,906	2,000	695.523,598	4.365.442,093	9,6090	100,000	16,384	695.622,461	4.365.427,056
3+731,867	5,962	695.524,670	4.365.447,956	13,4042	100,000		695.622,461	4.365.427,056
3+733,867	2,000	695.525,101	4.365.449,909	14,0408	Infinito	14,142		
3+804,543	70,676	695.540,562	4.365.518,873	14,0408	Infinito			
3+819,543	15,000	695.543,524	4.365.533,574	9,8890	-115,000	41,533	695.429,909	4.365.551,366
3+846,686	27,143	695.544,535	4.365.560,636	394,8630	-115,000		695.429,909	4.365.551,366
3+861,686	15,000	695.542,659	4.365.575,515	390,4752	-2,024,126	42,766	693.541,145	4.365.273,804
3+889,826	28,140	695.538,271	4.365.603,311	389,5902	-2,024,126		693.541,145	4.365.273,804
3+891,826	2,000	695.537,941	4.365.605,283	389,2050	-180,000	19,878	695.360,523	4.365.574,907
3+905,854	14,028	695.535,038	4.365.619,004	384,2436	-180,000		695.360,523	4.365.574,907
3+907,854	2,000	695.534,541	4.365.620,941	383,8900	Infinito	18,974		
3+943,639	35,785	695.525,581	4.365.655,586	383,8900	Infinito			
3+953,639	10,000	695.523,207	4.365.665,300	386,4364	125,000	35,355	695.645,381	4.365.691,731
3+974,379	20,740	695.520,520	4.365.685,841	396,9993	125,000		695.645,381	4.365.691,731
3+984,379	10,000	695.520,315	4.365.695,838	399,5457	Infinito	35,355		
3+996,503	12,124	695.520,229	4.365.707,961	399,5457	Infinito			
4+026,503	30,000	695.519,078	4.365.737,928	393,5774	-160,000	69,282	695.359,891	4.365.721,813
4+042,757	16,254	695.516,623	4.365.753,988	387,1102	-160,000		695.359,891	4.365.721,813
4+072,757	30,000	695.508,769	4.365.782,930	381,1419	Infinito	69,282		
4+090,317	17,560	695.503,644	4.365.799,725	381,1419	Infinito			
4+105,317	15,000	695.498,329	4.365.813,723	368,4096	-37,500	23,717	695.465,352	4.365.795,869
4+121,570	16,253	695.487,781	4.365.825,922	340,8169	-37,500		695.465,352	4.365.795,869
4+136,571	15,000	695.474,533	4.365.832,853	323,1597	-96,954	30,287	695.440,035	4.365.742,244
4+148,272	11,702	695.463,373	4.365.836,347	315,4762	-96,954		695.440,035	4.365.742,244
4+150,272	2,000	695.461,426	4.365.836,807	313,9707	-75,000	25,738	695.445,099	4.365.763,606
4+165,926	15,654	695.445,904	4.365.838,601	300,6834	-75,000		695.445,099	4.365.763,606
4+200,926	35,000	695.411,354	4.365.833,561	285,8288	Infinito	51,235		
4+247,214	46,288	695.366,208	4.365.823,342	285,8288	Infinito			
4+258,025	10,811	695.355,571	4.365.821,473	295,1293	37,000	20,000	695.352,743	4.365.858,365
4+280,707	22,682	695.333,830	4.365.826,564	334,1553	37,000		695.352,743	4.365.858,365
4+291,518	10,811	695.325,128	4.365.832,961	343,4558	Infinito	20,000		
4+324,777	33,259	695.299,322	4.365.853,941	343,4558	Infinito			
4+334,776	10,000	695.291,805	4.365.860,528	350,5292	45,000	21,213	695.323,889	4.365.892,083
4+359,714	24,938	695.280,002	4.365.882,134	385,8088	45,000		695.323,889	4.365.892,083
4+369,714	10,000	695.278,670	4.365.892,035	395,7687	110,293	27,571	695.388,720	4.365.899,360
4+386,152	16,438	695.278,802	4.365.908,457	5,2567	110,293		695.388,720	4.365.899,360
4+388,152	2,000	695.278,994	4.365.910,448	7,2808	44,000	12,100	695.322,707	4.365.905,427
4+395,849	7,697	695.280,535	4.365.917,978	18,4167	44,000		695.322,707	4.365.905,427
4+397,849	2,000	695.281,135	4.365.919,887	19,8636	Infinito	9,381		
4+403,005	5,156	695.282,717	4.365.924,793	19,8636	Infinito			
4+413,005	10,000	695.285,491	4.365.934,397	13,9689	-54,000	23,238	695.232,786	4.365.946,151
4+428,163	15,159	695.286,684	4.365.949,459	396,0981	-54,000		695.232,786	4.365.946,151
4+438,163	10,000	695.285,458	4.365.959,379	390,2035	Infinito	23,238		
4+448,532	10,369	695.283,869	4.365.969,626	390,2035	Infinito			
4+449,032	0,500	695.283,793	4.365.970,120	390,6013	40,000	4,472	695.323,358	4.365.976,004
4+451,720	2,688	695.283,487	4.365.972,790	394,8795	40,000		695.323,358	4.365.976,004

<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+452,220	0,500	695.283,450	4.365.973,289	395,5097	68,500	6,933	695.351,779	4.365.978,116
4+460,876	8,656	695.283,386	4.365.981,938	3,5539	68,500		695.351,779	4.365.978,116
4+470,876	10,000	695.285,265	4.365.991,714	24,5252	19,500	16,511	695.303,336	4.365.984,386
4+479,133	8,257	695.289,872	4.365.998,492	51,4820	19,500		695.303,336	4.365.984,386
4+489,133	10,000	695.298,151	4.366.004,048	67,8050	Infinito	13,964		
4+504,477	15,344	695.311,574	4.366.011,481	67,8050	Infinito			
4+508,477	4,000	695.315,061	4.366.013,440	66,6476	-110,000	20,976	695.260,033	4.366.108,687
4+514,828	6,352	695.320,466	4.366.016,775	62,9716	-110,000		695.260,033	4.366.108,687
4+518,828	4,000	695.323,774	4.366.019,023	61,1775	-200,000	31,269	695.209,230	4.366.182,973
4+528,171	9,343	695.331,305	4.366.024,551	58,2036	-200,000		695.209,230	4.366.182,973
4+546,171	18,000	695.344,149	4.366.037,061	38,9685	-35,000	27,634	695.315,504	4.366.057,172
4+553,308	7,137	695.347,629	4.366.043,279	25,9864	-35,000		695.315,504	4.366.057,172
4+571,309	18,000	695.351,837	4.366.060,726	9,6159	Infinito	25,100		
4+611,398	40,089	695.357,870	4.366.100,358	9,6159	Infinito			
4+629,397	18,000	695.359,983	4.366.118,225	3,2498	-90,000	40,249	695.270,100	4.366.122,818
4+644,461	15,063	695.359,492	4.366.133,263	392,5947	-90,000		695.270,100	4.366.122,818
4+662,461	18,000	695.356,218	4.366.150,954	386,2286	Infinito	40,249		
4+681,779	19,319	695.352,071	4.366.169,823	386,2286	Infinito			
4+685,779	4,000	695.351,280	4.366.173,743	389,4933	39,000	12,490	695.389,750	4.366.180,151
4+718,704	32,925	695.359,404	4.366.204,649	43,2384	39,000		695.389,750	4.366.180,151
4+722,704	4,000	695.362,022	4.366.207,673	46,5031	Infinito	12,490		
4+733,433	10,729	695.369,180	4.366.215,664	46,5031	Infinito			
4+738,433	5,000	695.372,471	4.366.219,428	44,2295	-70,000	18,708	695.318,697	4.366.264,242
4+791,409	52,976	695.388,562	4.366.268,582	396,0501	-70,000		695.318,697	4.366.264,242
4+796,408	5,000	695.388,133	4.366.273,563	393,7766	Infinito	18,708		
4+832,145	35,736	695.384,645	4.366.309,129	393,7766	Infinito			
4+846,144	14,000	695.382,651	4.366.322,974	385,1238	-51,500	26,851	695.332,551	4.366.311,049
4+872,624	26,479	695.370,309	4.366.346,072	352,3912	-51,500		695.332,551	4.366.311,049
4+886,623	14,000	695.359,907	4.366.355,425	343,7384	Infinito	26,851		
4+889,752	3,128	695.357,594	4.366.357,529	350,2315	30,673		695.379,361	4.366.379,139
4+890,752	1,000	695.356,898	4.366.358,247	351,6836	76,800	7,146	695.412,621	4.366.411,098
4+935,205	44,454	695.337,064	4.366.397,339	388,5328	76,800		695.412,621	4.366.411,098
4+940,205	5,000	695.336,280	4.366.402,277	390,8165	752,745	20,679	696.081,207	4.366.510,487
4+955,245	15,039	695.334,267	4.366.417,181	392,0884	752,745		696.081,207	4.366.510,487
4+983,244	28,000	695.326,866	4.366.443,938	364,2368	-32,000	29,933	695.299,784	4.366.426,892
5+001,181	17,937	695.313,660	4.366.455,727	328,5529	-32,000		695.299,784	4.366.426,892
5+006,181	5,000	695.309,049	4.366.457,657	323,5794	Infinito	12,649		
5+023,019	16,839	695.293,352	4.366.463,752	323,5794	Infinito			
5+028,020	5,000	695.288,724	4.366.465,644	326,9658	47,000	15,330	695.308,042	4.366.508,491
5+049,425	21,405	695.271,847	4.366.478,509	355,9597	47,000		695.308,042	4.366.508,491
5+056,425	7,000	695.267,656	4.366.484,113	360,7003	Infinito	18,138		
5+149,874	93,449	695.213,563	4.366.560,315	360,7003	Infinito			
5+176,007	26,133	695.201,772	4.366.583,391	388,4286	30,000	28,000	695.231,278	4.366.588,814
5+179,633	3,626	695.201,334	4.366.586,988	396,1232	30,000		695.231,278	4.366.588,814
5+205,767	26,133	695.207,234	4.366.612,221	23,8515	Infinito	28,000		
5+282,792	77,025	695.235,422	4.366.683,903	23,8515	Infinito			
5+299,791	16,999	695.240,814	4.366.700,005	14,0133	-55,000	30,577	695.187,141	4.366.712,014
5+312,687	12,896	695.242,136	4.366.712,804	399,0859	-55,000		695.187,141	4.366.712,014
5+336,187	23,500	695.238,473	4.366.735,968	385,4857	Infinito	35,951		
5+357,708	21,521	695.233,609	4.366.756,932	385,4857	Infinito			

eje1 - eje1 - RN1

## 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+580,006	295,873•				
2	0+600,000	297,135•	6,3117	0,000•	0,000	0,000
3	0+617,000	298,008•	5,1307	0,000•	0,000	0,000
4	0+620,000	298,162•	5,1300	0,000•	0,000	0,000
5	0+623,000	298,303•	4,7038	0,000•	0,000	0,000
6	0+640,000	299,106•	4,7254	0,000•	0,000	0,000
7	0+660,002	299,764•	3,2890	0,000•	0,000	0,000
8	0+680,000	300,758•	4,9696	0,000•	0,000	0,000
9	0+700,000	301,602•	4,2223	0,000•	0,000	0,000
10	0+720,000	302,317•	3,5750	0,000•	0,000	0,000
11	0+740,000	303,198•	4,4028	0,000•	0,000	0,000
12	0+760,000	304,500•	6,5138	0,000•	0,000	0,000
13	0+780,000	305,287•	3,9334	0,000•	0,000	0,000
14	0+800,000	305,781•	2,4695	0,000•	0,000	0,000
15	0+820,000	306,657•	4,3777	0,000•	0,000	0,000
16	0+840,000	307,638•	4,9083	0,000•	0,000	0,000
17	0+859,994	309,121•	7,4171	0,000•	0,000	0,000
18	0+880,000	310,123•	5,0085	0,000•	0,000	0,000
19	0+900,000	311,299•	5,8806	0,000•	0,000	0,000
20	0+920,000	312,249•	4,7501	0,000•	0,000	0,000
21	0+940,000	313,137•	4,4360	0,000•	0,000	0,000
22	0+960,000	314,226•	5,4472	0,000•	0,000	0,000
23	0+980,000	314,780•	2,7695	0,000•	0,000	0,000
24	1+000,000	315,721•	4,7046	0,000•	0,000	0,000
25	1+020,000	316,681•	4,8010	0,000•	0,000	0,000
26	1+040,000	317,802•	5,6027	0,000•	0,000	0,000
27	1+054,000	318,794•	7,0873	0,000•	0,000	0,000
28	1+078,000	320,553•	7,3321	0,000•	0,000	0,000
29	1+079,994	320,701•	7,4089	0,000•	0,000	0,000
30	1+100,000	322,147•	7,2246	0,000•	0,000	0,000
31	1+120,000	323,275•	5,6407	0,000•	0,000	0,000
32	1+140,000	324,584•	6,5472	0,000•	0,000	0,000
33	1+160,000	325,570•	4,9304	0,000•	0,000	0,000
34	1+189,000	326,599•	3,5479	0,000•	0,000	0,000
35	1+220,000	327,757•	3,7348	0,000•	0,000	0,000
36	1+260,000	330,244•	6,2180	0,000•	0,000	0,000
37	1+280,000	331,703•	7,2945	0,000•	0,000	0,000
38	1+300,000	332,710•	5,0362	0,000•	0,000	0,000
39	1+303,000	332,829•	3,9632	0,000•	0,000	0,000
40	1+320,000	333,500•	3,9470	0,000•	0,000	0,000
41	1+339,989	333,783•	1,4147	0,000•	0,000	0,000
42	1+360,000	334,500•	3,5847	0,000•	0,000	0,000
43	1+380,000	335,096•	2,9778	0,000•	0,000	0,000
44	1+400,000	335,710•	3,0695	0,000•	0,000	0,000
45	1+420,000	337,041•	6,6556	0,000•	0,000	0,000
46	1+440,000	338,185•	5,7222	0,000•	0,000	0,000
47	1+460,000	339,001•	4,0778	0,000•	0,000	0,000
48	1+480,000	339,688•	3,4361	0,000•	0,000	0,000
49	1+500,000	340,500•	4,0611	0,000•	0,000	0,000
50	1+520,000	341,001•	2,5027	0,000•	0,000	0,000
51	1+540,000	340,501•	-2,5000	0,000•	0,000	0,000
52	1+580,000	340,501•	0,0000	0,000•	0,000	0,000
53	1+600,000	340,400•	-0,5055	0,000•	0,000	0,000
54	1+620,000	340,146•	-1,2668	0,000•	0,000	0,000
55	1+640,000	339,501•	-3,2277	0,000•	0,000	0,000
56	1+660,000	339,002•	-2,4945	0,000•	0,000	0,000
57	1+680,000	338,687•	-1,5750	0,000•	0,000	0,000
58	1+720,000	338,240•	-1,1166	0,000•	0,000	0,000
59	1+740,000	338,001•	-1,1978	0,000•	0,000	0,000
60	1+760,000	338,000•	-0,0021	0,000•	0,000	0,000
61	1+820,000	339,000•	1,6667	0,000•	0,000	0,000
62	1+840,000	338,842•	-0,7916	0,000•	0,000	0,000
63	1+860,000	338,357•	-2,4223	0,000•	0,000	0,000
64	1+880,000	337,500•	-4,2860	0,000•	0,000	0,000
65	1+900,000	336,541•	-4,7972	0,000•	0,000	0,000
66	1+940,000	336,552•	0,0278	0,000•	0,000	0,000
67	1+960,000	337,160•	3,0417	0,000•	0,000	0,000
68	1+975,000	337,241•	0,5408	0,000•	0,000	0,000
69	1+981,000	337,272•	0,5183	0,000•	0,000	0,000
70	2+000,000	337,328•	0,2923	0,000•	0,000	0,000
71	2+020,000	337,662•	1,6695	0,000•	0,000	0,000
72	2+040,000	337,740•	0,3917	0,000•	0,000	0,000
73	2+080,000	338,753•	2,5320	0,000•	0,000	0,000
74	2+100,000	339,194•	2,2055	0,000•	0,000	0,000
75	2+120,394	339,750•	2,7262	0,000•	0,000	0,000
76	2+140,000	340,239•	2,4915	0,000•	0,000	0,000
77	2+160,000	340,610•	1,8582	0,000•	0,000	0,000
78	2+180,000	340,913•	1,5112	0,000•	0,000	0,000
79	2+183,000	341,000•	2,9256	0,000•	0,000	0,000
80	2+200,000	341,501•	2,9444	0,000•	0,000	0,000

<u>Ver.</u>	<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>	<u>Long.(L)</u>	<u>Radio(kv)</u>	<u>Flecha</u>
81	2+220,000	342,500•	4,9973	0,000•	0,000	0,000
82	2+240,011	343,231•	3,6529	0,000•	0,000	0,000
83	2+258,000	344,094•	4,7937	0,000•	0,000	0,000
84	2+280,000	345,217•	5,1086	0,000•	0,000	0,000
85	2+300,000	346,216•	4,9916	0,000•	0,000	0,000
86	2+320,000	346,745•	2,6445	0,000•	0,000	0,000
87	2+340,000	347,712•	4,8361	0,000•	0,000	0,000
88	2+360,000	348,612•	4,5027	0,000•	0,000	0,000
89	2+380,000	350,113•	7,5027	0,000•	0,000	0,000
90	2+400,000	351,000•	4,4362	0,000•	0,000	0,000
91	2+420,039	352,262•	6,2954	0,000•	0,000	0,000
92	2+440,000	353,338•	5,3916	0,000•	0,000	0,000
93	2+460,000	353,500•	0,8112	0,000•	0,000	0,000
94	2+480,000	354,151•	3,2521	0,000•	0,000	0,000
95	2+490,000	354,576•	4,2499	0,000•	0,000	0,000
96	2+500,000	355,000•	4,2447	0,000•	0,000	0,000
97	2+520,000	355,738•	3,6888	0,000•	0,000	0,000
98	2+540,000	356,252•	2,5694	0,000•	0,000	0,000
99	2+560,000	357,000•	3,7418	0,000•	0,000	0,000
100	2+580,000	357,666•	3,3305	0,000•	0,000	0,000
101	2+600,000	358,261•	2,9750	0,000•	0,000	0,000
102	2+620,000	359,135•	4,3694	0,000•	0,000	0,000
103	2+640,000	359,670•	2,6750	0,000•	0,000	0,000
104	2+670,000	360,917•	4,1574	0,000•	0,000	0,000
105	2+679,006	361,293•	4,1705	0,000•	0,000	0,000
106	2+680,000	361,334•	4,1337	0,000•	0,000	0,000
107	2+700,000	362,110•	3,8805	0,000•	0,000	0,000
108	2+720,000	362,649•	2,6944	0,000•	0,000	0,000
109	2+740,000	363,096•	2,2362	0,000•	0,000	0,000
110	2+760,000	363,501•	2,0222	0,000•	0,000	0,000
111	2+780,000	363,708•	1,0388	0,000•	0,000	0,000
112	2+800,000	364,175•	2,3306	0,000•	0,000	0,000
113	2+820,000	364,591•	2,0805	0,000•	0,000	0,000
114	2+840,000	365,000•	2,0473	0,000•	0,000	0,000
115	2+860,000	365,829•	4,1444	0,000•	0,000	0,000
116	2+880,000	367,000•	5,8556	0,000•	0,000	0,000
117	2+900,000	367,996•	4,9805	0,000•	0,000	0,000
118	2+920,000	369,090•	5,4668	0,000•	0,000	0,000
119	2+939,000	369,954•	4,5497	0,000•	0,000	0,000
120	2+940,000	370,001•	4,6661	0,000•	0,000	0,000
121	2+960,000	371,000•	4,9973	0,000•	0,000	0,000
122	2+962,000	371,069•	3,4439	0,000•	0,000	0,000
123	2+980,000	371,683•	3,4105	0,000•	0,000	0,000
124	3+000,000	372,637•	4,7722	0,000•	0,000	0,000
125	3+020,000	373,171•	2,6668	0,000•	0,000	0,000
126	3+038,000	373,596•	2,3610	0,000•	0,000	0,000
127	3+060,000	374,076•	2,1844	0,000•	0,000	0,000
128	3+080,000	374,834•	3,7889	0,000•	0,000	0,000
129	3+100,000	376,296•	7,3111	0,000•	0,000	0,000
130	3+120,000	377,195•	4,4916	0,000•	0,000	0,000
131	3+140,000	377,606•	2,0584	0,000•	0,000	0,000
132	3+160,000	378,500•	4,4667	0,000•	0,000	0,000
133	3+180,000	379,001•	2,5055	0,000•	0,000	0,000
134	3+200,000	379,760•	3,7971	0,000•	0,000	0,000
135	3+209,761	380,240•	4,9120	0,000•	0,000	0,000
136	3+220,000	380,743•	4,9212	0,000•	0,000	0,000
137	3+240,000	381,500•	3,7834	0,000•	0,000	0,000
138	3+260,000	382,000•	2,5000	0,000•	0,000	0,000
139	3+300,000	384,000•	5,0000	0,000•	0,000	0,000
140	3+320,000	384,500•	2,4973	0,000•	0,000	0,000
141	3+340,000	385,860•	6,8027	0,000•	0,000	0,000
142	3+360,000	386,717•	4,2862	0,000•	0,000	0,000
143	3+380,000	386,237•	-2,4028	0,000•	0,000	0,000
144	3+400,000	386,000•	-1,1833	0,000•	0,000	0,000
145	3+420,000	385,490•	-2,5500	0,000•	0,000	0,000
146	3+440,000	385,164•	-1,6306	0,000•	0,000	0,000
147	3+460,000	385,198•	0,1695	0,000•	0,000	0,000
148	3+480,000	385,646•	2,2417	0,000•	0,000	0,000
149	3+500,000	386,171•	2,6250	0,000•	0,000	0,000
150	3+520,000	386,713•	2,7110	0,000•	0,000	0,000
151	3+537,006	387,547•	4,9036	0,000•	0,000	0,000
152	3+540,006	387,696•	4,9632	0,000•	0,000	0,000
153	3+553,000	388,368•	5,1731	0,000•	0,000	0,000
154	3+565,000	388,993•	5,2083	0,000•	0,000	0,000
155	3+580,011	389,776•	5,2110	0,000•	0,000	0,000
156	3+600,000	391,260•	7,4263	0,000•	0,000	0,000
157	3+620,000	392,355•	5,4750	0,000•	0,000	0,000
158	3+631,000	393,037•	6,1970	0,000•	0,000	0,000
159	3+640,000	393,593•	6,1791	0,000•	0,000	0,000
160	3+660,000	394,270•	3,3861	0,000•	0,000	0,000
161	3+680,000	394,767•	2,4834	0,000•	0,000	0,000
162	3+688,944	395,005•	2,6667	0,000•	0,000	0,000
163	3+720,000	395,858•	2,7472	0,000•	0,000	0,000
164	3+740,000	396,000•	0,7083	0,000•	0,000	0,000
165	3+760,000	396,501•	2,5027	0,000•	0,000	0,000
166	3+775,000	397,019•	3,4556	0,000•	0,000	0,000
167	3+780,000	397,191•	3,4442	0,000•	0,000	0,000
168	3+800,000	398,000•	4,0445	0,000•	0,000	0,000

<u>Ver.</u>	<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>	<u>Long.(L)</u>	<u>Radio(kv)</u>	<u>Flecha</u>
169	3+827,000	399,011•	3,7448	0,000•	0,000	0,000
170	3+840,000	399,500•	3,7607	0,000•	0,000	0,000
171	3+860,000	400,000•	2,5000	0,000•	0,000	0,000
172	3+880,000	401,000•	5,0000	0,000•	0,000	0,000
173	3+900,006	401,000•	0,0000	0,000•	0,000	0,000
174	3+920,006	400,168•	-4,1611	0,000•	0,000	0,000
175	3+923,000	400,038•	-4,3232	0,000•	0,000	0,000
176	3+940,000	399,307•	-4,3006	0,000•	0,000	0,000
177	3+960,000	398,285•	-5,1140	0,000•	0,000	0,000
178	3+980,000	397,574•	-3,5527	0,000•	0,000	0,000
179	4+000,000	396,667•	-4,5334	0,000•	0,000	0,000
180	4+020,000	396,116•	-2,7583	0,000•	0,000	0,000
181	4+040,000	395,292•	-4,1167	0,000•	0,000	0,000
182	4+073,000	394,389•	-2,7373	0,000•	0,000	0,000
183	4+080,000	394,196•	-2,7540	0,000•	0,000	0,000
184	4+100,000	393,682•	-2,5694	0,000•	0,000	0,000
185	4+120,000	393,000•	-3,4111	0,000•	0,000	0,000
186	4+140,000	392,233•	-3,8333	0,000•	0,000	0,000
187	4+160,000	392,167•	-0,3307	0,000•	0,000	0,000
188	4+180,000	391,747•	-2,0999	0,000•	0,000	0,000
189	4+221,000	391,676•	-0,1734	0,000•	0,000	0,000
190	4+240,000	391,636•	-0,2106	0,000•	0,000	0,000
191	4+260,000	391,503•	-0,6639	0,000•	0,000	0,000
192	4+280,000	391,548•	0,2251	0,000•	0,000	0,000
193	4+300,000	391,193•	-1,7778	0,000•	0,000	0,000
194	4+320,000	390,635•	-2,7890	0,000•	0,000	0,000
195	4+340,000	390,286•	-1,7471	0,000•	0,000	0,000
196	4+360,000	390,091•	-0,9723	0,000•	0,000	0,000
197	4+380,000	389,752•	-1,6943	0,000•	0,000	0,000
198	4+400,000	389,281•	-2,3557	0,000•	0,000	0,000
199	4+420,000	388,501•	-3,9027	0,000•	0,000	0,000
200	4+440,000	387,663•	-4,1861	0,000•	0,000	0,000
201	4+460,000	386,643•	-5,0999	0,000•	0,000	0,000
202	4+480,000	385,421•	-6,1139	0,000•	0,000	0,000
203	4+499,983	384,713•	-3,5438	0,000•	0,000	0,000
204	4+520,000	383,698•	-5,0661	0,000•	0,000	0,000
205	4+540,000	382,795•	-4,5168	0,000•	0,000	0,000
206	4+560,000	381,611•	-5,9193	0,000•	0,000	0,000
207	4+580,000	380,550•	-5,3056	0,000•	0,000	0,000
208	4+600,000	379,799•	-3,7555	0,000•	0,000	0,000
209	4+620,000	379,222•	-2,8862	0,000•	0,000	0,000
210	4+640,000	378,738•	-2,4167	0,000•	0,000	0,000
211	4+657,000	378,736•	-0,0129	0,000•	0,000	0,000
212	4+680,000	378,760•	0,1038	0,000•	0,000	0,000
213	4+687,000	379,008•	3,5400	0,000•	0,000	0,000
214	4+700,000	379,469•	3,5468	0,000•	0,000	0,000
215	4+713,000	379,971•	3,8633	0,000•	0,000	0,000
216	4+720,000	380,241•	3,8574	0,000•	0,000	0,000
217	4+740,000	380,790•	2,7415	0,000•	0,000	0,000
218	4+760,000	380,770•	-0,0972	0,000•	0,000	0,000
219	4+780,000	380,300•	-2,3500	0,000•	0,000	0,000
220	4+800,000	379,500•	-3,9999	0,000•	0,000	0,000
221	4+820,000	379,198•	-1,5111	0,000•	0,000	0,000
222	4+840,000	379,738•	2,7026	0,000•	0,000	0,000
223	4+860,000	379,780•	0,2084	0,000•	0,000	0,000
224	4+880,000	379,720•	-0,3000	0,000•	0,000	0,000
225	4+900,000	379,611•	-0,5444	0,000•	0,000	0,000
226	4+920,000	379,675•	0,3166	0,000•	0,000	0,000
227	4+940,000	379,613•	-0,3056	0,000•	0,000	0,000
228	4+960,000	380,743•	5,6500	0,000•	0,000	0,000
229	5+000,000	383,268•	6,3111	0,000•	0,000	0,000
230	5+020,000	383,500•	1,1612	0,000•	0,000	0,000
231	5+040,000	383,641•	0,7027	0,000•	0,000	0,000
232	5+060,000	383,616•	-0,1250	0,000•	0,000	0,000
233	5+080,000	383,260•	-1,7778	0,000•	0,000	0,000
234	5+100,000	382,822•	-2,1889	0,000•	0,000	0,000
235	5+120,000	382,269•	-2,7666	0,000•	0,000	0,000
236	5+140,000	382,182•	-0,4333	0,000•	0,000	0,000
237	5+160,000	381,791•	-1,9556	0,000•	0,000	0,000
238	5+180,000	381,639•	-0,7611	0,000•	0,000	0,000
239	5+200,000	382,233•	2,9694	0,000•	0,000	0,000
240	5+220,000	382,669•	2,1806	0,000•	0,000	0,000
241	5+240,000	382,715•	0,2306	0,000•	0,000	0,000
242	5+250,000	382,921•	2,0612	0,000•	0,000	0,000
243	5+260,000	383,127•	2,0612	0,000•	0,000	0,000
244	5+280,000	383,500•	1,8639	0,000•	0,000	0,000
245	5+320,000	383,501•	0,0014	0,000•	0,000	0,000
246	5+340,000	384,135•	3,1694	0,000•	0,000	0,000
247	5+349,000	384,258•	1,3733	0,000•	0,000	0,000
248	5+350,000	384,272•	1,3824			

## COTAS EN PUNTOS DEL EJE

<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>
0+580,006	295,873	6,3117
0+600,000	297,135	6,3117
0+620,000	298,162	5,1300
0+640,000	299,106	4,7254
0+660,000	299,764	3,2890
0+680,000	300,758	4,9696
0+700,000	301,602	4,2223
0+720,000	302,317	3,5750
0+740,000	303,198	4,4028
0+760,000	304,500	6,5138
0+780,000	305,287	3,9334
0+800,000	305,781	2,4695
0+820,000	306,657	4,3777
0+840,000	307,638	4,9083
0+860,000	309,122	5,0085
0+880,000	310,123	5,0085
0+900,000	311,299	5,8806
0+920,000	312,249	4,7501
0+940,000	313,137	4,4360
0+960,000	314,226	5,4472
0+980,000	314,780	2,7695
1+000,000	315,721	4,7046
1+020,000	316,681	4,8010
1+040,000	317,802	5,6027
1+060,000	319,234	7,3321
1+080,000	320,702	7,2246
1+100,000	322,147	7,2246
1+120,000	323,275	5,6407
1+140,000	324,584	6,5472
1+160,000	325,570	4,9304
1+180,000	326,280	3,5479
1+200,000	327,010	3,7348
1+220,000	327,757	3,7348
1+240,000	329,001	6,2180
1+260,000	330,244	6,2180
1+280,000	331,703	7,2945
1+300,000	332,710	5,0362
1+320,000	333,500	3,9470
1+340,000	333,783	3,5847
1+360,000	334,500	3,5847
1+380,000	335,096	2,9778
1+400,000	335,710	3,0695
1+420,000	337,041	6,6556
1+440,000	338,185	5,7222
1+460,000	339,001	4,0778
1+480,000	339,688	3,4361
1+500,000	340,500	4,0611
1+520,000	341,001	2,5027
1+540,000	340,501	-2,5000
1+560,000	340,501	0,0000
1+580,000	340,501	0,0000
1+600,000	340,400	-0,5055
1+620,000	340,146	-1,2668
1+640,000	339,501	-3,2277
1+660,000	339,002	-2,4945
1+680,000	338,687	-1,5750
1+700,000	338,464	-1,1166
1+720,000	338,240	-1,1166
1+740,000	338,001	-1,1978
1+760,000	338,000	-0,0021
1+780,000	338,334	1,6667
1+800,000	338,667	1,6667
1+820,000	339,000	1,6667
1+840,000	338,842	-0,7916
1+860,000	338,357	-2,4223
1+880,000	337,500	-4,2860
1+900,000	336,541	-4,7972
1+920,000	336,546	0,0278
1+940,000	336,552	0,0278

## COTAS EN PUNTOS DEL EJE

<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>
1+960,000	337,160	3,0417
1+980,000	337,267	0,5183
2+000,000	337,328	0,2923
2+020,000	337,662	1,6695
2+040,000	337,740	0,3917
2+060,000	338,247	2,5320
2+080,000	338,753	2,5320
2+100,000	339,194	2,2055
2+120,000	339,739	2,7262
2+140,000	340,239	2,4915
2+160,000	340,610	1,8582
2+180,000	340,913	1,5112
2+200,000	341,501	2,9444
2+220,000	342,500	4,9973
2+240,000	343,231	3,6529
2+260,000	344,196	5,1086
2+280,000	345,217	5,1086
2+300,000	346,216	4,9916
2+320,000	346,745	2,6445
2+340,000	347,712	4,8361
2+360,000	348,612	4,5027
2+380,000	350,113	7,5027
2+400,000	351,000	4,4362
2+420,000	352,259	6,2954
2+440,000	353,338	5,3916
2+460,000	353,500	0,8112
2+480,000	354,151	3,2521
2+500,000	355,000	4,2447
2+520,000	355,738	3,6888
2+540,000	356,252	2,5694
2+560,000	357,000	3,7418
2+580,000	357,666	3,3305
2+600,000	358,261	2,9750
2+620,000	359,135	4,3694
2+640,000	359,670	2,6750
2+660,000	360,502	4,1574
2+680,000	361,334	4,1337
2+700,000	362,110	3,8805
2+720,000	362,649	2,6944
2+740,000	363,096	2,2362
2+760,000	363,501	2,0222
2+780,000	363,708	1,0388
2+800,000	364,175	2,3306
2+820,000	364,591	2,0473
2+840,000	365,000	2,0473
2+860,000	365,829	4,1444
2+880,000	367,000	5,8556
2+900,000	367,996	4,9805
2+920,000	369,090	5,4668
2+940,000	370,001	4,6661
2+960,000	371,000	4,9973
2+980,000	371,683	3,4105
3+000,000	372,637	4,7722
3+020,000	373,171	2,6668
3+040,000	373,639	2,1844
3+060,000	374,076	2,1844
3+080,000	374,834	3,7889
3+100,000	376,296	7,3111
3+120,000	377,195	4,4916
3+140,000	377,606	2,0584
3+160,000	378,500	4,4667
3+180,000	379,001	2,5055
3+200,000	379,760	3,7971
3+220,000	380,743	4,9212
3+240,000	381,500	3,7834
3+260,000	382,000	2,5000
3+280,000	383,000	5,0000
3+300,000	384,000	5,0000
3+320,000	384,500	2,4973



## COTAS EN PUNTOS DEL EJE

<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>
3+340,000	385,860	6,8027
3+360,000	386,717	4,2862
3+380,000	386,237	-2,4028
3+400,000	386,000	-1,1833
3+420,000	385,490	-2,5500
3+440,000	385,164	-1,6306
3+460,000	385,198	0,1695
3+480,000	385,646	2,2417
3+500,000	386,171	2,6250
3+520,000	386,713	2,7110
3+540,000	387,696	4,9632
3+560,000	388,733	5,2083
3+580,000	389,775	5,2110
3+600,000	391,260	7,4263
3+620,000	392,355	5,4750
3+640,000	393,593	6,1791
3+660,000	394,270	3,3861
3+680,000	394,767	2,4834
3+700,000	395,309	2,7472
3+720,000	395,858	2,7472
3+740,000	396,000	0,7083
3+760,000	396,501	2,5027
3+780,000	397,191	3,4442
3+800,000	398,000	4,0445
3+820,000	398,749	3,7448
3+840,000	399,500	3,7607
3+860,000	400,000	2,5000
3+880,000	401,000	5,0000
3+900,000	401,000	0,0000
3+920,000	400,168	-4,1611
3+940,000	399,307	-4,3006
3+960,000	398,285	-5,1140
3+980,000	397,574	-3,5527
4+000,000	396,667	-4,5334
4+020,000	396,116	-2,7583
4+040,000	395,292	-4,1167
4+060,000	394,745	-2,7373
4+080,000	394,196	-2,7540
4+100,000	393,682	-2,5694
4+120,000	393,000	-3,4111
4+140,000	392,233	-3,8333
4+160,000	392,167	-0,3307
4+180,000	391,747	-2,0999
4+200,000	391,713	-0,1734
4+220,000	391,678	-0,1734
4+240,000	391,636	-0,2106
4+260,000	391,503	-0,6639
4+280,000	391,548	0,2251
4+300,000	391,193	-1,7778
4+320,000	390,635	-2,7890
4+340,000	390,286	-1,7471
4+360,000	390,091	-0,9723
4+380,000	389,752	-1,6943
4+400,000	389,281	-2,3557
4+420,000	388,501	-3,9027
4+440,000	387,663	-4,1861
4+460,000	386,643	-5,0999
4+480,000	385,421	-6,1139
4+500,000	384,712	-5,0661
4+520,000	383,698	-5,0661
4+540,000	382,795	-4,5168
4+560,000	381,611	-5,9193
4+580,000	380,550	-5,3056
4+600,000	379,799	-3,7555
4+620,000	379,222	-2,8862
4+640,000	378,738	-2,4167
4+660,000	378,739	0,1038
4+680,000	378,760	0,1038
4+700,000	379,469	3,5468

## COTAS EN PUNTOS DEL EJE

<u>Estación</u>	<u>Cota</u>	<u>Pente.(%)</u>
4+720,000	380,241	3,8574
4+740,000	380,790	2,7415
4+760,000	380,770	-0,0972
4+780,000	380,300	-2,3500
4+800,000	379,500	-3,9999
4+820,000	379,198	-1,5111
4+840,000	379,738	2,7026
4+860,000	379,780	0,2084
4+880,000	379,720	-0,3000
4+900,000	379,611	-0,5444
4+920,000	379,675	0,3166
4+940,000	379,613	-0,3056
4+960,000	380,743	5,6500
4+980,000	382,006	6,3111
5+000,000	383,268	6,3111
5+020,000	383,500	1,1612
5+040,000	383,641	0,7027
5+060,000	383,616	-0,1250
5+080,000	383,260	-1,7778
5+100,000	382,822	-2,1889
5+120,000	382,269	-2,7666
5+140,000	382,182	-0,4333
5+160,000	381,791	-1,9556
5+180,000	381,639	-0,7611
5+200,000	382,233	2,9694
5+220,000	382,669	2,1806
5+240,000	382,715	0,2306
5+260,000	383,127	2,0612
5+280,000	383,500	1,8639
5+300,000	383,500	0,0014
5+320,000	383,501	0,0014
5+340,000	384,135	3,1694
5+350,000	384,272	1,3824

eje1 - eje1 - RN1

## ELEMENTOS DE LA RASANTE

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-0	INICIO	580,006						295,873
	PC1	600,000						297,135
V-1	FC1	600,000	Deflexión					297,135
		600,000				5,131	17,000	297,135
	PC2	617,000						298,008
V-2	FC2	617,000	Deflexión					298,008
		617,000				5,130	3,000	298,008
	PC3	620,000						298,162
V-3	FC3	620,000	Deflexión					298,162
		620,000				4,704	3,000	298,162
	PC4	623,000						298,303
V-4	FC4	623,000	Deflexión					298,303
		623,000				4,725	17,000	298,303
	PC5	640,000						299,106
V-5	FC5	640,000	Deflexión					299,106
		640,000				3,289	20,002	299,106
	PC6	660,002						299,764
V-6	FC6	660,002	Deflexión					299,764
		660,002				4,970	19,998	299,764
	PC7	680,000						300,758
V-7	FC7	680,000	Deflexión					300,758
		680,000				4,222	20,000	300,758
	PC8	700,000						301,602
V-8	FC8	700,000	Deflexión					301,602
		700,000				3,575	20,000	301,602
	PC9	720,000						302,317
V-9	FC9	720,000	Deflexión					302,317
		720,000				4,403	20,000	302,317
	PC10	740,000						303,198
V-10	FC10	740,000	Deflexión					303,198
		740,000				6,514	20,000	303,198
	PC11	760,000						304,500
V-11	FC11	760,000	Deflexión					304,500
		760,000				3,933	20,000	304,500
	PC12	780,000						305,287
V-12	FC12	780,000	Deflexión					305,287
		780,000				2,469	20,000	305,287
	PC13	800,000						305,781
V-13	FC13	800,000	Deflexión					305,781
		800,000				4,378	20,000	305,781
	PC14	820,000						306,657
V-14	FC14	820,000	Deflexión					306,657
		820,000				4,908	20,000	306,657
	PC15	840,000						307,638
V-15	FC15	840,000	Deflexión					307,638
		840,000				7,417	19,994	307,638
	PC16	859,994						309,121
V-16	FC16	859,994	Deflexión					309,121
		859,994				5,009	20,006	309,121
	PC17	880,000						310,123
V-17	FC17	880,000	Deflexión					310,123
		880,000				5,881	20,000	310,123
	PC18	900,000						311,299
V-18	FC18	900,000	Deflexión					311,299
		900,000				4,750	20,000	311,299
	PC19	920,000						312,249
V-19	FC19	920,000	Deflexión					312,249
		920,000				4,436	20,000	312,249
	PC20	940,000						313,137

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-20		940,000	Deflexión					313,137
	FC20	940,000						313,137
						5,447	20,000	
	PC21	960,000						314,226
V-21		960,000	Deflexión					314,226
	FC21	960,000						314,226
						2,769	20,000	
	PC22	980,000						314,780
V-22		980,000	Deflexión					314,780
	FC22	980,000						314,780
						4,705	20,000	
	PC23	1.000,000						315,721
V-23		1.000,000	Deflexión					315,721
	FC23	1.000,000						315,721
						4,801	20,000	
	PC24	1.020,000						316,681
V-24		1.020,000	Deflexión					316,681
	FC24	1.020,000						316,681
						5,603	20,000	
	PC25	1.040,000						317,802
V-25		1.040,000	Deflexión					317,802
	FC25	1.040,000						317,802
						7,087	14,000	
	PC26	1.054,000						318,794
V-26		1.054,000	Deflexión					318,794
	FC26	1.054,000						318,794
						7,332	24,000	
	PC27	1.078,000						320,553
V-27		1.078,000	Deflexión					320,553
	FC27	1.078,000						320,553
						7,409	1,994	
	PC28	1.079,994						320,701
V-28		1.079,994	Deflexión					320,701
	FC28	1.079,994						320,701
						7,225	20,006	
	PC29	1.100,000						322,147
V-29		1.100,000	Deflexión					322,147
	FC29	1.100,000						322,147
						5,641	20,000	
	PC30	1.120,000						323,275
V-30		1.120,000	Deflexión					323,275
	FC30	1.120,000						323,275
						6,547	20,000	
	PC31	1.140,000						324,584
V-31		1.140,000	Deflexión					324,584
	FC31	1.140,000						324,584
						4,930	20,000	
	PC32	1.160,000						325,570
V-32		1.160,000	Deflexión					325,570
	FC32	1.160,000						325,570
						3,548	29,000	
	PC33	1.189,000						326,599
V-33		1.189,000	Deflexión					326,599
	FC33	1.189,000						326,599
						3,735	31,000	
	PC34	1.220,000						327,757
V-34		1.220,000	Deflexión					327,757
	FC34	1.220,000						327,757
						6,218	40,000	
	PC35	1.260,000						330,244
V-35		1.260,000	Deflexión					330,244
	FC35	1.260,000						330,244
						7,294	20,000	
	PC36	1.280,000						331,703
V-36		1.280,000	Deflexión					331,703
	FC36	1.280,000						331,703
						5,036	20,000	
	PC37	1.300,000						332,710
V-37		1.300,000	Deflexión					332,710
	FC37	1.300,000						332,710
						3,963	3,000	
	PC38	1.303,000						332,829
V-38		1.303,000	Deflexión					332,829
	FC38	1.303,000						332,829
						3,947	17,000	
	PC39	1.320,000						333,500
V-39		1.320,000	Deflexión					333,500
	FC39	1.320,000						333,500
						1,415	19,989	
	PC40	1.339,989						333,783
V-40		1.339,989	Deflexión					333,783
	FC40	1.339,989						333,783
						3,585	20,011	
	PC41	1.360,000						334,500
V-41		1.360,000	Deflexión					334,500
	FC41	1.360,000						334,500

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-42	PC42	1.380,000	Deflexión			2,978	20,000	335,096
		1.380,000						335,096
	FC42	1.380,000						335,096
V-43	PC43	1.400,000	Deflexión			3,069	20,000	335,710
		1.400,000						335,710
	FC43	1.400,000						335,710
V-44	PC44	1.420,000	Deflexión			6,656	20,000	337,041
		1.420,000						337,041
	FC44	1.420,000						337,041
V-45	PC45	1.440,000	Deflexión			5,722	20,000	338,185
		1.440,000						338,185
	FC45	1.440,000						338,185
V-46	PC46	1.460,000	Deflexión			4,078	20,000	339,001
		1.460,000						339,001
	FC46	1.460,000						339,001
V-47	PC47	1.480,000	Deflexión			3,436	20,000	339,688
		1.480,000						339,688
	FC47	1.480,000						339,688
V-48	PC48	1.500,000	Deflexión			4,061	20,000	340,500
		1.500,000						340,500
	FC48	1.500,000						340,500
V-49	PC49	1.520,000	Deflexión			2,503	20,000	341,001
		1.520,000						341,001
	FC49	1.520,000						341,001
V-50	PC50	1.540,000	Deflexión			-2,500	20,000	340,501
		1.540,000						340,501
	FC50	1.540,000						340,501
V-51	PC51	1.580,000	Deflexión			0,000	40,000	340,501
		1.580,000						340,501
	FC51	1.580,000						340,501
V-52	PC52	1.600,000	Deflexión			-0,506	20,000	340,400
		1.600,000						340,400
	FC52	1.600,000						340,400
V-53	PC53	1.620,000	Deflexión			-1,267	20,000	340,146
		1.620,000						340,146
	FC53	1.620,000						340,146
V-54	PC54	1.640,000	Deflexión			-3,228	20,000	339,501
		1.640,000						339,501
	FC54	1.640,000						339,501
V-55	PC55	1.660,000	Deflexión			-2,495	20,000	339,002
		1.660,000						339,002
	FC55	1.660,000						339,002
V-56	PC56	1.680,000	Deflexión			-1,575	20,000	338,687
		1.680,000						338,687
	FC56	1.680,000						338,687
V-57	PC57	1.720,000	Deflexión			-1,117	40,000	338,240
		1.720,000						338,240
	FC57	1.720,000						338,240
V-58	PC58	1.740,000	Deflexión			-1,198	20,000	338,001
		1.740,000						338,001
	FC58	1.740,000						338,001
V-59	PC59	1.760,000	Deflexión			-0,002	20,000	338,000
		1.760,000						338,000
	FC59	1.760,000						338,000
V-60	PC60	1.820,000	Deflexión			1,667	60,000	339,000
		1.820,000						339,000
	FC60	1.820,000						339,000
V-61	PC61	1.840,000	Deflexión			-0,792	20,000	338,842
		1.840,000						338,842
	FC61	1.840,000						338,842
V-62	PC62	1.860,000	Deflexión			-2,422	20,000	338,357
		1.860,000						338,357
	FC62	1.860,000						338,357
	PC63	1.880,000				-4,286	20,000	337,500

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-63		1.880,000	Deflexión					337,500
	FC63	1.880,000						337,500
						-4,797	20,000	
	PC64	1.900,000						336,541
V-64		1.900,000	Deflexión					336,541
	FC64	1.900,000						336,541
						0,028	40,000	
	PC65	1.940,000						336,552
V-65		1.940,000	Deflexión					336,552
	FC65	1.940,000						336,552
						3,042	20,000	
	PC66	1.960,000						337,160
V-66		1.960,000	Deflexión					337,160
	FC66	1.960,000						337,160
						0,541	15,000	
	PC67	1.975,000						337,241
V-67		1.975,000	Deflexión					337,241
	FC67	1.975,000						337,241
						0,518	6,000	
	PC68	1.981,000						337,272
V-68		1.981,000	Deflexión					337,272
	FC68	1.981,000						337,272
						0,292	19,000	
	PC69	2.000,000						337,328
V-69		2.000,000	Deflexión					337,328
	FC69	2.000,000						337,328
						1,669	20,000	
	PC70	2.020,000						337,662
V-70		2.020,000	Deflexión					337,662
	FC70	2.020,000						337,662
						0,392	20,000	
	PC71	2.040,000						337,740
V-71		2.040,000	Deflexión					337,740
	FC71	2.040,000						337,740
						2,532	40,000	
	PC72	2.080,000						338,753
V-72		2.080,000	Deflexión					338,753
	FC72	2.080,000						338,753
						2,206	20,000	
	PC73	2.100,000						339,194
V-73		2.100,000	Deflexión					339,194
	FC73	2.100,000						339,194
						2,726	20,394	
	PC74	2.120,394						339,750
V-74		2.120,394	Deflexión					339,750
	FC74	2.120,394						339,750
						2,491	19,606	
	PC75	2.140,000						340,239
V-75		2.140,000	Deflexión					340,239
	FC75	2.140,000						340,239
						1,858	20,000	
	PC76	2.160,000						340,610
V-76		2.160,000	Deflexión					340,610
	FC76	2.160,000						340,610
						1,511	20,000	
	PC77	2.180,000						340,913
V-77		2.180,000	Deflexión					340,913
	FC77	2.180,000						340,913
						2,926	3,000	
	PC78	2.183,000						341,000
V-78		2.183,000	Deflexión					341,000
	FC78	2.183,000						341,000
						2,944	17,000	
	PC79	2.200,000						341,501
V-79		2.200,000	Deflexión					341,501
	FC79	2.200,000						341,501
						4,997	20,000	
	PC80	2.220,000						342,500
V-80		2.220,000	Deflexión					342,500
	FC80	2.220,000						342,500
						3,653	20,011	
	PC81	2.240,011						343,231
V-81		2.240,011	Deflexión					343,231
	FC81	2.240,011						343,231
						4,794	17,989	
	PC82	2.258,000						344,094
V-82		2.258,000	Deflexión					344,094
	FC82	2.258,000						344,094
						5,109	22,000	
	PC83	2.280,000						345,217
V-83		2.280,000	Deflexión					345,217
	FC83	2.280,000						345,217
						4,992	20,000	
	PC84	2.300,000						346,216
V-84		2.300,000	Deflexión					346,216
	FC84	2.300,000						346,216

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-85	PC85	2.320,000	Deflexión			2,645	20,000	346,745
		2.320,000						346,745
	FC85	2.320,000						346,745
V-86	PC86	2.340,000	Deflexión			4,836	20,000	347,712
		2.340,000						347,712
	FC86	2.340,000						347,712
V-87	PC87	2.360,000	Deflexión			4,503	20,000	348,612
		2.360,000						348,612
	FC87	2.360,000						348,612
V-88	PC88	2.380,000	Deflexión			7,503	20,000	350,113
		2.380,000						350,113
	FC88	2.380,000						350,113
V-89	PC89	2.400,000	Deflexión			4,436	20,000	351,000
		2.400,000						351,000
	FC89	2.400,000						351,000
V-90	PC90	2.420,039	Deflexión			6,295	20,039	352,262
		2.420,039						352,262
	FC90	2.420,039						352,262
V-91	PC91	2.440,000	Deflexión			5,392	19,961	353,338
		2.440,000						353,338
	FC91	2.440,000						353,338
V-92	PC92	2.460,000	Deflexión			0,811	20,000	353,500
		2.460,000						353,500
	FC92	2.460,000						353,500
V-93	PC93	2.480,000	Deflexión			3,252	20,000	354,151
		2.480,000						354,151
	FC93	2.480,000						354,151
V-94	PC94	2.490,000	Deflexión			4,250	10,000	354,576
		2.490,000						354,576
	FC94	2.490,000						354,576
V-95	PC95	2.500,000	Deflexión			4,245	10,000	355,000
		2.500,000						355,000
	FC95	2.500,000						355,000
V-96	PC96	2.520,000	Deflexión			3,689	20,000	355,738
		2.520,000						355,738
	FC96	2.520,000						355,738
V-97	PC97	2.540,000	Deflexión			2,569	20,000	356,252
		2.540,000						356,252
	FC97	2.540,000						356,252
V-98	PC98	2.560,000	Deflexión			3,742	20,000	357,000
		2.560,000						357,000
	FC98	2.560,000						357,000
V-99	PC99	2.580,000	Deflexión			3,331	20,000	357,666
		2.580,000						357,666
	FC99	2.580,000						357,666
V-100	PC100	2.600,000	Deflexión			2,975	20,000	358,261
		2.600,000						358,261
	FC100	2.600,000						358,261
V-101	PC101	2.620,000	Deflexión			4,369	20,000	359,135
		2.620,000						359,135
	FC101	2.620,000						359,135
V-102	PC102	2.640,000	Deflexión			2,675	20,000	359,670
		2.640,000						359,670
	FC102	2.640,000						359,670
V-103	PC103	2.670,000	Deflexión			4,157	30,000	360,917
		2.670,000						360,917
	FC103	2.670,000						360,917
V-104	PC104	2.679,006	Deflexión			4,171	9,006	361,293
		2.679,006						361,293
	FC104	2.679,006						361,293
V-105	PC105	2.680,000	Deflexión			4,134	0,994	361,334
		2.680,000						361,334
	FC105	2.680,000						361,334
	PC106	2.700,000				3,880	20,000	362,110

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-106	FC106	2.700,000 2.700,000	Deflexión					362,110 362,110
	PC107	2.720,000				2,694	20,000	362,649
V-107	FC107	2.720,000 2.720,000	Deflexión					362,649 362,649
	PC108	2.740,000				2,236	20,000	363,096
V-108	FC108	2.740,000 2.740,000	Deflexión					363,096 363,096
	PC109	2.760,000				2,022	20,000	363,501
V-109	FC109	2.760,000 2.760,000	Deflexión					363,501 363,501
	PC110	2.780,000				1,039	20,000	363,708
V-110	FC110	2.780,000 2.780,000	Deflexión					363,708 363,708
	PC111	2.800,000				2,331	20,000	364,175
V-111	FC111	2.800,000 2.800,000	Deflexión					364,175 364,175
	PC112	2.820,000				2,081	20,000	364,591
V-112	FC112	2.820,000 2.820,000	Deflexión					364,591 364,591
	PC113	2.840,000				2,047	20,000	365,000
V-113	FC113	2.840,000 2.840,000	Deflexión					365,000 365,000
	PC114	2.860,000				4,144	20,000	365,829
V-114	FC114	2.860,000 2.860,000	Deflexión					365,829 365,829
	PC115	2.880,000				5,856	20,000	367,000
V-115	FC115	2.880,000 2.880,000	Deflexión					367,000 367,000
	PC116	2.900,000				4,980	20,000	367,996
V-116	FC116	2.900,000 2.900,000	Deflexión					367,996 367,996
	PC117	2.920,000				5,467	20,000	369,090
V-117	FC117	2.920,000 2.920,000	Deflexión					369,090 369,090
	PC118	2.939,000				4,550	19,000	369,954
V-118	FC118	2.939,000 2.939,000	Deflexión					369,954 369,954
	PC119	2.940,000				4,666	1,000	370,001
V-119	FC119	2.940,000 2.940,000	Deflexión					370,001 370,001
	PC120	2.960,000				4,997	20,000	371,000
V-120	FC120	2.960,000 2.960,000	Deflexión					371,000 371,000
	PC121	2.962,000				3,444	2,000	371,069
V-121	FC121	2.962,000 2.962,000	Deflexión					371,069 371,069
	PC122	2.980,000				3,411	18,000	371,683
V-122	FC122	2.980,000 2.980,000	Deflexión					371,683 371,683
	PC123	3.000,000				4,772	20,000	372,637
V-123	FC123	3.000,000 3.000,000	Deflexión					372,637 372,637
	PC124	3.020,000				2,667	20,000	373,171
V-124	FC124	3.020,000 3.020,000	Deflexión					373,171 373,171
	PC125	3.038,000				2,361	18,000	373,596
V-125	FC125	3.038,000 3.038,000	Deflexión					373,596 373,596
	PC126	3.060,000				2,184	22,000	374,076
V-126	FC126	3.060,000 3.060,000	Deflexión					374,076 374,076
	PC127	3.080,000				3,789	20,000	374,834
V-127	FC127	3.080,000 3.080,000	Deflexión					374,834 374,834



V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-128	PC128	3.100,000	Deflexión			7,311	20,000	376,296
		3.100,000						376,296
	FC128	3.100,000						376,296
V-129	PC129	3.120,000	Deflexión			4,492	20,000	377,195
		3.120,000						377,195
	FC129	3.120,000						377,195
V-130	PC130	3.140,000	Deflexión			2,058	20,000	377,606
		3.140,000						377,606
	FC130	3.140,000						377,606
V-131	PC131	3.160,000	Deflexión			4,467	20,000	378,500
		3.160,000						378,500
	FC131	3.160,000						378,500
V-132	PC132	3.180,000	Deflexión			2,505	20,000	379,001
		3.180,000						379,001
	FC132	3.180,000						379,001
V-133	PC133	3.200,000	Deflexión			3,797	20,000	379,760
		3.200,000						379,760
	FC133	3.200,000						379,760
V-134	PC134	3.209,761	Deflexión			4,912	9,761	380,240
		3.209,761						380,240
	FC134	3.209,761						380,240
V-135	PC135	3.220,000	Deflexión			4,921	10,239	380,743
		3.220,000						380,743
	FC135	3.220,000						380,743
V-136	PC136	3.240,000	Deflexión			3,783	20,000	381,500
		3.240,000						381,500
	FC136	3.240,000						381,500
V-137	PC137	3.260,000	Deflexión			2,500	20,000	382,000
		3.260,000						382,000
	FC137	3.260,000						382,000
V-138	PC138	3.300,000	Deflexión			5,000	40,000	384,000
		3.300,000						384,000
	FC138	3.300,000						384,000
V-139	PC139	3.320,000	Deflexión			2,497	20,000	384,500
		3.320,000						384,500
	FC139	3.320,000						384,500
V-140	PC140	3.340,000	Deflexión			6,803	20,000	385,860
		3.340,000						385,860
	FC140	3.340,000						385,860
V-141	PC141	3.360,000	Deflexión			4,286	20,000	386,717
		3.360,000						386,717
	FC141	3.360,000						386,717
V-142	PC142	3.380,000	Deflexión			-2,403	20,000	386,237
		3.380,000						386,237
	FC142	3.380,000						386,237
V-143	PC143	3.400,000	Deflexión			-1,183	20,000	386,000
		3.400,000						386,000
	FC143	3.400,000						386,000
V-144	PC144	3.420,000	Deflexión			-2,550	20,000	385,490
		3.420,000						385,490
	FC144	3.420,000						385,490
V-145	PC145	3.440,000	Deflexión			-1,631	20,000	385,164
		3.440,000						385,164
	FC145	3.440,000						385,164
V-146	PC146	3.460,000	Deflexión			0,170	20,000	385,198
		3.460,000						385,198
	FC146	3.460,000						385,198
V-147	PC147	3.480,000	Deflexión			2,242	20,000	385,646
		3.480,000						385,646
	FC147	3.480,000						385,646
V-148	PC148	3.500,000	Deflexión			2,625	20,000	386,171
		3.500,000						386,171
	FC148	3.500,000						386,171
	PC149	3.520,000				2,711	20,000	386,713

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-149		3.520,000	Deflexión					386,713
	FC149	3.520,000						386,713
						4,904	17,006	
	PC150	3.537,006						387,547
V-150		3.537,006	Deflexión					387,547
	FC150	3.537,006						387,547
						4,963	3,000	
	PC151	3.540,006						387,696
V-151		3.540,006	Deflexión					387,696
	FC151	3.540,006						387,696
						5,173	12,994	
	PC152	3.553,000						388,368
V-152		3.553,000	Deflexión					388,368
	FC152	3.553,000						388,368
						5,208	12,000	
	PC153	3.565,000						388,993
V-153		3.565,000	Deflexión					388,993
	FC153	3.565,000						388,993
						5,211	15,011	
	PC154	3.580,011						389,776
V-154		3.580,011	Deflexión					389,776
	FC154	3.580,011						389,776
						7,426	19,989	
	PC155	3.600,000						391,260
V-155		3.600,000	Deflexión					391,260
	FC155	3.600,000						391,260
						5,475	20,000	
	PC156	3.620,000						392,355
V-156		3.620,000	Deflexión					392,355
	FC156	3.620,000						392,355
						6,197	11,000	
	PC157	3.631,000						393,037
V-157		3.631,000	Deflexión					393,037
	FC157	3.631,000						393,037
						6,179	9,000	
	PC158	3.640,000						393,593
V-158		3.640,000	Deflexión					393,593
	FC158	3.640,000						393,593
						3,386	20,000	
	PC159	3.660,000						394,270
V-159		3.660,000	Deflexión					394,270
	FC159	3.660,000						394,270
						2,483	20,000	
	PC160	3.680,000						394,767
V-160		3.680,000	Deflexión					394,767
	FC160	3.680,000						394,767
						2,667	8,944	
	PC161	3.688,944						395,005
V-161		3.688,944	Deflexión					395,005
	FC161	3.688,944						395,005
						2,747	31,056	
	PC162	3.720,000						395,858
V-162		3.720,000	Deflexión					395,858
	FC162	3.720,000						395,858
						0,708	20,000	
	PC163	3.740,000						396,000
V-163		3.740,000	Deflexión					396,000
	FC163	3.740,000						396,000
						2,503	20,000	
	PC164	3.760,000						396,501
V-164		3.760,000	Deflexión					396,501
	FC164	3.760,000						396,501
						3,456	15,000	
	PC165	3.775,000						397,019
V-165		3.775,000	Deflexión					397,019
	FC165	3.775,000						397,019
						3,444	5,000	
	PC166	3.780,000						397,191
V-166		3.780,000	Deflexión					397,191
	FC166	3.780,000						397,191
						4,044	20,000	
	PC167	3.800,000						398,000
V-167		3.800,000	Deflexión					398,000
	FC167	3.800,000						398,000
						3,745	27,000	
	PC168	3.827,000						399,011
V-168		3.827,000	Deflexión					399,011
	FC168	3.827,000						399,011
						3,761	13,000	
	PC169	3.840,000						399,500
V-169		3.840,000	Deflexión					399,500
	FC169	3.840,000						399,500
						2,500	20,000	
	PC170	3.860,000						400,000
V-170		3.860,000	Deflexión					400,000
	FC170	3.860,000						400,000

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-171	PC171	3.880,000	Deflexión			5,000	20,000	401,000
		3.880,000						401,000
	FC171	3.880,000						401,000
V-172	PC172	3.900,006	Deflexión			0,000	20,006	401,000
		3.900,006						401,000
	FC172	3.900,006						401,000
V-173	PC173	3.920,006	Deflexión			-4,161	20,000	400,168
		3.920,006						400,168
	FC173	3.920,006						400,168
V-174	PC174	3.923,000	Deflexión			-4,323	2,994	400,038
		3.923,000						400,038
	FC174	3.923,000						400,038
V-175	PC175	3.940,000	Deflexión			-4,301	17,000	399,307
		3.940,000						399,307
	FC175	3.940,000						399,307
V-176	PC176	3.960,000	Deflexión			-5,114	20,000	398,285
		3.960,000						398,285
	FC176	3.960,000						398,285
V-177	PC177	3.980,000	Deflexión			-3,553	20,000	397,574
		3.980,000						397,574
	FC177	3.980,000						397,574
V-178	PC178	4.000,000	Deflexión			-4,533	20,000	396,667
		4.000,000						396,667
	FC178	4.000,000						396,667
V-179	PC179	4.020,000	Deflexión			-2,758	20,000	396,116
		4.020,000						396,116
	FC179	4.020,000						396,116
V-180	PC180	4.040,000	Deflexión			-4,117	20,000	395,292
		4.040,000						395,292
	FC180	4.040,000						395,292
V-181	PC181	4.073,000	Deflexión			-2,737	33,000	394,389
		4.073,000						394,389
	FC181	4.073,000						394,389
V-182	PC182	4.080,000	Deflexión			-2,754	7,000	394,196
		4.080,000						394,196
	FC182	4.080,000						394,196
V-183	PC183	4.100,000	Deflexión			-2,569	20,000	393,682
		4.100,000						393,682
	FC183	4.100,000						393,682
V-184	PC184	4.120,000	Deflexión			-3,411	20,000	393,000
		4.120,000						393,000
	FC184	4.120,000						393,000
V-185	PC185	4.140,000	Deflexión			-3,833	20,000	392,233
		4.140,000						392,233
	FC185	4.140,000						392,233
V-186	PC186	4.160,000	Deflexión			-0,331	20,000	392,167
		4.160,000						392,167
	FC186	4.160,000						392,167
V-187	PC187	4.180,000	Deflexión			-2,100	20,000	391,747
		4.180,000						391,747
	FC187	4.180,000						391,747
V-188	PC188	4.221,000	Deflexión			-0,173	41,000	391,676
		4.221,000						391,676
	FC188	4.221,000						391,676
V-189	PC189	4.240,000	Deflexión			-0,211	19,000	391,636
		4.240,000						391,636
	FC189	4.240,000						391,636
V-190	PC190	4.260,000	Deflexión			-0,664	20,000	391,503
		4.260,000						391,503
	FC190	4.260,000						391,503
V-191	PC191	4.280,000	Deflexión			0,225	20,000	391,548
		4.280,000						391,548
	FC191	4.280,000						391,548
	PC192	4.300,000				-1,778	20,000	391,193

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-192		4.300,000	Deflexión					391,193
	FC192	4.300,000						391,193
						-2,789	20,000	
	PC193	4.320,000						390,635
V-193		4.320,000	Deflexión					390,635
	FC193	4.320,000						390,635
						-1,747	20,000	
	PC194	4.340,000						390,286
V-194		4.340,000	Deflexión					390,286
	FC194	4.340,000						390,286
						-0,972	20,000	
	PC195	4.360,000						390,091
V-195		4.360,000	Deflexión					390,091
	FC195	4.360,000						390,091
						-1,694	20,000	
	PC196	4.380,000						389,752
V-196		4.380,000	Deflexión					389,752
	FC196	4.380,000						389,752
						-2,356	20,000	
	PC197	4.400,000						389,281
V-197		4.400,000	Deflexión					389,281
	FC197	4.400,000						389,281
						-3,903	20,000	
	PC198	4.420,000						388,501
V-198		4.420,000	Deflexión					388,501
	FC198	4.420,000						388,501
						-4,186	20,000	
	PC199	4.440,000						387,663
V-199		4.440,000	Deflexión					387,663
	FC199	4.440,000						387,663
						-5,100	20,000	
	PC200	4.460,000						386,643
V-200		4.460,000	Deflexión					386,643
	FC200	4.460,000						386,643
						-6,114	20,000	
	PC201	4.480,000						385,421
V-201		4.480,000	Deflexión					385,421
	FC201	4.480,000						385,421
						-3,544	19,983	
	PC202	4.499,983						384,713
V-202		4.499,983	Deflexión					384,713
	FC202	4.499,983						384,713
						-5,066	20,017	
	PC203	4.520,000						383,698
V-203		4.520,000	Deflexión					383,698
	FC203	4.520,000						383,698
						-4,517	20,000	
	PC204	4.540,000						382,795
V-204		4.540,000	Deflexión					382,795
	FC204	4.540,000						382,795
						-5,919	20,000	
	PC205	4.560,000						381,611
V-205		4.560,000	Deflexión					381,611
	FC205	4.560,000						381,611
						-5,306	20,000	
	PC206	4.580,000						380,550
V-206		4.580,000	Deflexión					380,550
	FC206	4.580,000						380,550
						-3,755	20,000	
	PC207	4.600,000						379,799
V-207		4.600,000	Deflexión					379,799
	FC207	4.600,000						379,799
						-2,886	20,000	
	PC208	4.620,000						379,222
V-208		4.620,000	Deflexión					379,222
	FC208	4.620,000						379,222
						-2,417	20,000	
	PC209	4.640,000						378,738
V-209		4.640,000	Deflexión					378,738
	FC209	4.640,000						378,738
						-0,013	17,000	
	PC210	4.657,000						378,736
V-210		4.657,000	Deflexión					378,736
	FC210	4.657,000						378,736
						0,104	23,000	
	PC211	4.680,000						378,760
V-211		4.680,000	Deflexión					378,760
	FC211	4.680,000						378,760
						3,540	7,000	
	PC212	4.687,000						379,008
V-212		4.687,000	Deflexión					379,008
	FC212	4.687,000						379,008
						3,547	13,000	
	PC213	4.700,000						379,469
V-213		4.700,000	Deflexión					379,469
	FC213	4.700,000						379,469

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-214	PC214	4.713,000	Deflexión			3,863	13,000	379,971
		4.713,000						379,971
	FC214	4.713,000						379,971
V-215	PC215	4.720,000	Deflexión			3,857	7,000	380,241
		4.720,000						380,241
	FC215	4.720,000						380,241
V-216	PC216	4.740,000	Deflexión			2,742	20,000	380,790
		4.740,000						380,790
	FC216	4.740,000						380,790
V-217	PC217	4.760,000	Deflexión			-0,097	20,000	380,770
		4.760,000						380,770
	FC217	4.760,000						380,770
V-218	PC218	4.780,000	Deflexión			-2,350	20,000	380,300
		4.780,000						380,300
	FC218	4.780,000						380,300
V-219	PC219	4.800,000	Deflexión			-4,000	20,000	379,500
		4.800,000						379,500
	FC219	4.800,000						379,500
V-220	PC220	4.820,000	Deflexión			-1,511	20,000	379,198
		4.820,000						379,198
	FC220	4.820,000						379,198
V-221	PC221	4.840,000	Deflexión			2,703	20,000	379,738
		4.840,000						379,738
	FC221	4.840,000						379,738
V-222	PC222	4.860,000	Deflexión			0,208	20,000	379,780
		4.860,000						379,780
	FC222	4.860,000						379,780
V-223	PC223	4.880,000	Deflexión			-0,300	20,000	379,720
		4.880,000						379,720
	FC223	4.880,000						379,720
V-224	PC224	4.900,000	Deflexión			-0,544	20,000	379,611
		4.900,000						379,611
	FC224	4.900,000						379,611
V-225	PC225	4.920,000	Deflexión			0,317	20,000	379,675
		4.920,000						379,675
	FC225	4.920,000						379,675
V-226	PC226	4.940,000	Deflexión			-0,306	20,000	379,613
		4.940,000						379,613
	FC226	4.940,000						379,613
V-227	PC227	4.960,000	Deflexión			5,650	20,000	380,743
		4.960,000						380,743
	FC227	4.960,000						380,743
V-228	PC228	5.000,000	Deflexión			6,311	40,000	383,268
		5.000,000						383,268
	FC228	5.000,000						383,268
V-229	PC229	5.020,000	Deflexión			1,161	20,000	383,500
		5.020,000						383,500
	FC229	5.020,000						383,500
V-230	PC230	5.040,000	Deflexión			0,703	20,000	383,641
		5.040,000						383,641
	FC230	5.040,000						383,641
V-231	PC231	5.060,000	Deflexión			-0,125	20,000	383,616
		5.060,000						383,616
	FC231	5.060,000						383,616
V-232	PC232	5.080,000	Deflexión			-1,778	20,000	383,260
		5.080,000						383,260
	FC232	5.080,000						383,260
V-233	PC233	5.100,000	Deflexión			-2,189	20,000	382,822
		5.100,000						382,822
	FC233	5.100,000						382,822
V-234	PC234	5.120,000	Deflexión			-2,767	20,000	382,269
		5.120,000						382,269
	FC234	5.120,000						382,269
	PC235	5.140,000				-0,433	20,000	382,182

V	PC FC	Distancia Acumulada	Longitud Acuerdo	Parám.K Convexo	Parám.K Concavo	Pendiente %	Longitud Recta	Cota
V-235		5.140,000	Deflexión					382,182
	FC235	5.140,000						382,182
						-1,956	20,000	
	PC236	5.160,000						381,791
V-236		5.160,000	Deflexión					381,791
	FC236	5.160,000						381,791
						-0,761	20,000	
	PC237	5.180,000						381,639
V-237		5.180,000	Deflexión					381,639
	FC237	5.180,000						381,639
						2,969	20,000	
	PC238	5.200,000						382,233
V-238		5.200,000	Deflexión					382,233
	FC238	5.200,000						382,233
						2,181	20,000	
	PC239	5.220,000						382,669
V-239		5.220,000	Deflexión					382,669
	FC239	5.220,000						382,669
						0,231	20,000	
	PC240	5.240,000						382,715
V-240		5.240,000	Deflexión					382,715
	FC240	5.240,000						382,715
						2,061	10,000	
	PC241	5.250,000						382,921
V-241		5.250,000	Deflexión					382,921
	FC241	5.250,000						382,921
						2,061	10,000	
	PC242	5.260,000						383,127
V-242		5.260,000	Deflexión					383,127
	FC242	5.260,000						383,127
						1,864	20,000	
	PC243	5.280,000						383,500
V-243		5.280,000	Deflexión					383,500
	FC243	5.280,000						383,500
						0,001	40,000	
	PC244	5.320,000						383,501
V-244		5.320,000	Deflexión					383,501
	FC244	5.320,000						383,501
						3,169	20,000	
	PC245	5.340,000						384,135
V-245		5.340,000	Deflexión					384,135
	FC245	5.340,000						384,135
						1,373	9,000	
	PC246	5.349,000						384,258
V-246		5.349,000	Deflexión					384,258
	FC246	5.349,000						384,258
						1,382	1,000	
V-247	FIN	5.350,000						384,272

## 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	566,772	37,500	50 ≤ R ≤ 350	7,000	0,180	34,51	90	No					41
28 CI	634,907	100,000	50 ≤ R ≤ 350	7,000	0,180	56,35	90	No	4,725	0,398	50 ≤ v ≤ 60	59,40	190
32 CI	680,090	85,000	50 ≤ R ≤ 350	7,000	0,180	51,95	90	No	4,222	0,407	50 ≤ v ≤ 60	52,52	110
36 CI	734,582	43,000	50 ≤ R ≤ 350	7,000	0,180	36,95	90	No	4,403	0,432	v ≤ 40	31,82	70
40 CI	788,705	41,000	50 ≤ R ≤ 350	7,000	0,180	36,08	90	No	2,469	0,432	v ≤ 40	31,27	210
44 CI	885,015	34,000	50 ≤ R ≤ 350	7,000	0,180	32,86	90	No	5,881	0,432	v ≤ 40	26,91	90
48 CI	982,751	45,000	50 ≤ R ≤ 350	7,000	0,180	37,80	90	No	4,705	0,432	v ≤ 40	32,74	150
52 CI	1138,712	16,750	50 ≤ R ≤ 350	7,000	0,180	23,06	90	No	6,547	0,432	v ≤ 40	17,02	110
56 CI	1212,230	63,500	50 ≤ R ≤ 350	7,000	0,180	44,90	90	No	3,735	0,422	40 ≤ v ≤ 50	42,24	50
58 CI	1213,309	32,069	50 ≤ R ≤ 350	7,000	0,180	31,91	90	No	3,735	0,432	v ≤ 40	26,27	50
60 CI	1231,304	45,000	50 ≤ R ≤ 350	7,000	0,180	37,80	90	No	6,218	0,432	v ≤ 40	32,38	50
62 CI	1249,922	86,465	50 ≤ R ≤ 350	7,000	0,180	52,40	90	No	6,218	0,406	50 ≤ v ≤ 60	52,20	70
64 CI	1266,491	36,000	50 ≤ R ≤ 350	7,000	0,180	33,81	90	No	7,294	0,432	v ≤ 40	27,69	70
66 CI	1288,354	185,000	50 ≤ R ≤ 350	7,000	0,180	76,64	90	No	5,036	0,355	70 ≤ v ≤ 80	99,62	70
68 CI	1309,388	70,000	50 ≤ R ≤ 350	7,000	0,180	47,14	90	No	3,947	0,417	40 ≤ v ≤ 50	45,36	228
72 CI	1443,982	74,000	50 ≤ R ≤ 350	7,000	0,180	48,47	90	No	4,078	0,414	40 ≤ v ≤ 50	47,26	94
86 CI	2238,562	46,000	50 ≤ R ≤ 350	7,000	0,180	38,22	90	No	3,653	0,432	v ≤ 40	33,50	90
90 CI	2295,580	57,000	50 ≤ R ≤ 350	7,000	0,180	42,54	90	No	4,992	0,427	40 ≤ v ≤ 50	38,58	190
94 CI	2384,480	80,000	50 ≤ R ≤ 350	7,000	0,180	50,40	90	No	4,436	0,410	50 ≤ v ≤ 60	50,00	90
98 CI	2448,760	19,000	50 ≤ R ≤ 350	7,000	0,180	24,56	90	No	0,811	0,432	v ≤ 40	19,04	90
102 CI	2556,120	56,000	50 ≤ R ≤ 350	7,000	0,180	42,17	90	No	3,742	0,427	40 ≤ v ≤ 50	38,48	270
108 CI	2720,559	57,000	50 ≤ R ≤ 350	7,000	0,180	42,54	90	No	2,236	0,427	40 ≤ v ≤ 50	39,50	530
112 CI	3036,436	100,000	50 ≤ R ≤ 350	7,000	0,180	56,35	90	No	2,361	0,398	50 ≤ v ≤ 60	60,98	360
114 CI	3618,354	22054,764	Sin considerar				60						296
116 CI	3649,600	55,000	50 ≤ R ≤ 350	7,000	0,180	41,79	40	Sí	3,386	0,428	40 ≤ v ≤ 50	38,09	270
118 CI	3723,906	392,194	350 ≤ R ≤ 2500	6,904	0,180	111,37	40	Sí	0,708	0,304	110 ≤ v ≤ 120	218,89	196
120 CI	3731,867	100,000	50 ≤ R ≤ 350	7,000	0,180	56,35	40	Sí	0,708	0,398	50 ≤ v ≤ 60	62,19	196
124 CI	3846,686	115,000	50 ≤ R ≤ 350	7,000	0,180	60,43	40	Sí	2,500	0,410	60 ≤ v ≤ 70	66,61	66
126 CI	3889,862	2024,126	350 ≤ R ≤ 2500	2,364	0,180	228,80	40	Sí	0,000	0,249	V ≥ 150	954,80	230
128 CI	3905,854	180,000	50 ≤ R ≤ 350	7,000	0,180	75,60	40	Sí	-4,161	0,357	70 ≤ v ≤ 80	113,28	210

132 CI	3974,379	125,000	$50 \leq R \leq 350$	7,000	0,180	63,00	40	Sí	-3,553	0,405	$60 \leq v \leq 70$	77,32	130
136 CI	4042,757	160,000	$50 \leq R \leq 350$	7,000	0,180	71,27	40	Sí	-2,737	0,366	$70 \leq v \leq 80$	98,60	90
140 CI	4121,570	37,500	$50 \leq R \leq 350$	7,000	0,180	34,51	40	No	-3,833	0,432	$v \leq 40$	31,08	90
142 CI	4148,272	96,954	$50 \leq R \leq 350$	7,000	0,180	55,48	40	Sí	-0,331	0,399	$50 \leq v \leq 60$	61,41	190
144 CI	4165,926	75,000	$50 \leq R \leq 350$	7,000	0,180	48,80	40	Sí	-2,100	0,414	$40 \leq v \leq 50$	50,99	170
148 CI	4280,707	37,000	$50 \leq R \leq 350$	7,000	0,180	34,27	40	No	-1,778	0,432	$v \leq 40$	30,21	210
152 CI	4359,714	45,000	$50 \leq R \leq 350$	7,000	0,180	37,80	40	No	-0,972	0,432	$v \leq 40$	34,32	150
154 CI	4386,152	110,293	$50 \leq R \leq 350$	7,000	0,180	59,18	40	Sí	-2,356	0,392	$50 \leq v \leq 60$	70,32	70
156 CI	4395,849	44,000	$50 \leq R \leq 350$	7,000	0,180	37,38	40	No	-2,356	0,432	$v \leq 40$	34,23	70
160 CI	4428,163	54,000	$50 \leq R \leq 350$	7,000	0,180	41,41	40	Sí	-4,186	0,429	$40 \leq v \leq 50$	40,44	70
164 CI	4451,720	40,000	$50 \leq R \leq 350$	7,000	0,180	35,64	40	No	-5,100	0,432	$v \leq 40$	32,92	50
166 CI	4460,876	68,500	$50 \leq R \leq 350$	7,000	0,180	46,64	40	Sí	-6,114	0,418	$40 \leq v \leq 50$	49,90	50
168 CI	4479,133	19,500	$50 \leq R \leq 350$	7,000	0,180	24,88	40	No	-6,114	0,432	$v \leq 40$	20,40	50
172 CI	4514,828	110,000	$50 \leq R \leq 350$	7,000	0,180	59,10	40	Sí	-5,066	0,392	$50 \leq v \leq 60$	73,13	50
174 CI	4528,171	200,000	$50 \leq R \leq 350$	7,000	0,180	79,69	40	Sí	-4,517	0,349	$70 \leq v \leq 80$	126,65	50
176 CI	4553,308	35,000	$50 \leq R \leq 350$	7,000	0,180	33,34	40	No	-5,919	0,432	$v \leq 40$	30,25	253
180 CI	4644,461	90,000	$50 \leq R \leq 350$	7,000	0,180	53,46	40	Sí	-0,013	0,404	$50 \leq v \leq 60$	57,57	136
184 CI	4718,704	39,000	$50 \leq R \leq 350$	7,000	0,180	35,19	40	No	3,857	0,432	$v \leq 40$	29,91	74
188 CI	4791,409	70,000	$50 \leq R \leq 350$	7,000	0,180	47,14	40	Sí	-4,000	0,417	$40 \leq v \leq 50$	49,40	90
192 CI	4872,624	51,500	$50 \leq R \leq 350$	7,000	0,180	40,44	40	Sí	-0,300	0,431	$40 \leq v \leq 50$	37,50	150
194 CI	4889,752	30,673	$50 \leq R \leq 350$	7,000	0,180	31,21	40	No	-0,544	0,432	$v \leq 40$	26,33	130
196 CI	4935,205	76,800	$50 \leq R \leq 350$	7,000	0,180	49,38	40	Sí	-0,306	0,412	$40 \leq v \leq 50$	50,89	70
198 CI	4955,245	752,745	$350 \leq R \leq 2500$	4,973	0,180	148,20	40	Sí	5,650	0,252	$140 \leq v \leq 150$	363,04	50
200 CI	5001,181	32,000	$50 \leq R \leq 350$	7,000	0,180	31,87	40	No	1,161	0,432	$v \leq 40$	26,73	210
204 CI	5049,425	47,000	$50 \leq R \leq 350$	7,000	0,180	38,63	40	No	-0,125	0,432	$v \leq 40$	35,10	170
208 CI	5179,633	30,000	$50 \leq R \leq 350$	7,000	0,180	30,86	40	No	-0,761	0,432	$v \leq 40$	25,98	180



## 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	566,772	37,500	50 ≤ R ≤ 350	7,000	0,180	34,51	90	No					41
28 CI	634,907	100,000	50 ≤ R ≤ 350	7,000	0,180	56,35	90	No	-4,725	0,398	50 ≤ v ≤ 60	66,98	190
32 CI	680,090	85,000	50 ≤ R ≤ 350	7,000	0,180	51,95	90	No	-4,222	0,407	50 ≤ v ≤ 60	58,00	110
36 CI	734,582	43,000	50 ≤ R ≤ 350	7,000	0,180	36,95	90	No	-4,403	0,432	v ≤ 40	34,38	70
40 CI	788,705	41,000	50 ≤ R ≤ 350	7,000	0,180	36,08	90	No	-2,469	0,432	v ≤ 40	32,63	210
44 CI	885,015	34,000	50 ≤ R ≤ 350	7,000	0,180	32,86	90	No	-5,881	0,432	v ≤ 40	29,64	90
48 CI	982,751	45,000	50 ≤ R ≤ 350	7,000	0,180	37,80	90	No	-4,705	0,432	v ≤ 40	35,61	150
52 CI	1138,712	16,750	50 ≤ R ≤ 350	7,000	0,180	23,06	90	No	-6,547	0,432	v ≤ 40	18,52	110
56 CI	1212,230	63,500	50 ≤ R ≤ 350	7,000	0,180	44,90	90	No	-3,735	0,422	40 ≤ v ≤ 50	45,60	50
58 CI	1213,309	32,069	50 ≤ R ≤ 350	7,000	0,180	31,91	90	No	-3,735	0,432	v ≤ 40	27,88	50
60 CI	1231,304	45,000	50 ≤ R ≤ 350	7,000	0,180	37,80	90	No	-6,218	0,432	v ≤ 40	36,21	50
62 CI	1249,922	86,465	50 ≤ R ≤ 350	7,000	0,180	52,40	90	No	-6,218	0,406	50 ≤ v ≤ 60	60,55	70
64 CI	1266,491	36,000	50 ≤ R ≤ 350	7,000	0,180	33,81	90	No	-7,294	0,432	v ≤ 40	31,32	70
66 CI	1288,354	185,000	50 ≤ R ≤ 350	7,000	0,180	76,64	90	No	-5,036	0,355	70 ≤ v ≤ 80	118,47	70
68 CI	1309,388	70,000	50 ≤ R ≤ 350	7,000	0,180	47,14	90	No	-3,947	0,417	40 ≤ v ≤ 50	49,37	228
72 CI	1443,982	74,000	50 ≤ R ≤ 350	7,000	0,180	48,47	90	No	-4,078	0,414	40 ≤ v ≤ 50	51,70	94
86 CI	2238,562	46,000	50 ≤ R ≤ 350	7,000	0,180	38,22	90	No	-3,653	0,432	v ≤ 40	35,77	90
90 CI	2295,580	57,000	50 ≤ R ≤ 350	7,000	0,180	42,54	90	No	-4,992	0,427	40 ≤ v ≤ 50	42,55	190
94 CI	2384,480	80,000	50 ≤ R ≤ 350	7,000	0,180	50,40	90	No	-4,436	0,410	50 ≤ v ≤ 60	55,34	90
98 CI	2448,760	19,000	50 ≤ R ≤ 350	7,000	0,180	24,56	90	No	-0,811	0,432	v ≤ 40	19,25	90
102 CI	2556,120	56,000	50 ≤ R ≤ 350	7,000	0,180	42,17	90	No	-3,742	0,427	40 ≤ v ≤ 50	41,37	270
108 CI	2720,559	57,000	50 ≤ R ≤ 350	7,000	0,180	42,54	90	No	-2,236	0,427	40 ≤ v ≤ 50	41,26	530
112 CI	3036,436	100,000	50 ≤ R ≤ 350	7,000	0,180	56,35	90	No	-2,361	0,398	50 ≤ v ≤ 60	64,72	360
114 CI	3618,354	22054,764	Sin considerar				60						296
116 CI	3649,600	55,000	50 ≤ R ≤ 350	7,000	0,180	41,79	40	Sí	-3,386	0,428	40 ≤ v ≤ 50	40,65	270
118 CI	3723,906	392,194	350 ≤ R ≤ 2500	6,904	0,180	111,37	40	Sí	-0,708	0,304	110 ≤ v ≤ 120	226,38	196
120 CI	3731,867	100,000	50 ≤ R ≤ 350	7,000	0,180	56,35	40	Sí	-0,708	0,398	50 ≤ v ≤ 60	63,31	196
124 CI	3846,686	115,000	50 ≤ R ≤ 350	7,000	0,180	60,43	40	Sí	-2,500	0,410	60 ≤ v ≤ 70	70,90	66
126 CI	3889,862	2024,126	350 ≤ R ≤ 2500	2,364	0,180	228,80	40	Sí	0,000	0,249	V ≥ 150	954,80	230
128 CI	3905,854	180,000	50 ≤ R ≤ 350	7,000	0,180	75,60	40	Sí	4,161	0,357	70 ≤ v ≤ 80	98,41	210

132 CI	3974,379	125,000	$50 \leq R \leq 350$	7,000	0,180	63,00	40	Sí	3,553	0,405	$60 \leq v \leq 70$	70,49	130
136 CI	4042,757	160,000	$50 \leq R \leq 350$	7,000	0,180	71,27	40	Sí	2,737	0,366	$70 \leq v \leq 80$	90,40	90
140 CI	4121,570	37,500	$50 \leq R \leq 350$	7,000	0,180	34,51	40	No	3,833	0,432	$v \leq 40$	29,14	90
142 CI	4148,272	96,954	$50 \leq R \leq 350$	7,000	0,180	55,48	40	Sí	0,331	0,399	$50 \leq v \leq 60$	60,91	190
144 CI	4165,926	75,000	$50 \leq R \leq 350$	7,000	0,180	48,80	40	Sí	2,100	0,414	$40 \leq v \leq 50$	48,69	170
148 CI	4280,707	37,000	$50 \leq R \leq 350$	7,000	0,180	34,27	40	No	1,778	0,432	$v \leq 40$	29,32	210
152 CI	4359,714	45,000	$50 \leq R \leq 350$	7,000	0,180	37,80	40	No	0,972	0,432	$v \leq 40$	33,73	150
154 CI	4386,152	110,293	$50 \leq R \leq 350$	7,000	0,180	59,18	40	Sí	2,356	0,392	$50 \leq v \leq 60$	66,07	70
156 CI	4395,849	44,000	$50 \leq R \leq 350$	7,000	0,180	37,38	40	No	2,356	0,432	$v \leq 40$	32,84	70
160 CI	4428,163	54,000	$50 \leq R \leq 350$	7,000	0,180	41,41	40	Sí	4,186	0,429	$40 \leq v \leq 50$	37,34	70
164 CI	4451,720	40,000	$50 \leq R \leq 350$	7,000	0,180	35,64	40	No	5,100	0,432	$v \leq 40$	30,15	50
166 CI	4460,876	68,500	$50 \leq R \leq 350$	7,000	0,180	46,64	40	Sí	6,114	0,418	$40 \leq v \leq 50$	43,78	50
168 CI	4479,133	19,500	$50 \leq R \leq 350$	7,000	0,180	24,88	40	No	6,114	0,432	$v \leq 40$	18,77	50
172 CI	4514,828	110,000	$50 \leq R \leq 350$	7,000	0,180	59,10	40	Sí	5,066	0,392	$50 \leq v \leq 60$	63,90	50
174 CI	4528,171	200,000	$50 \leq R \leq 350$	7,000	0,180	79,69	40	Sí	4,517	0,349	$70 \leq v \leq 80$	107,75	50
176 CI	4553,308	35,000	$50 \leq R \leq 350$	7,000	0,180	33,34	40	No	5,919	0,432	$v \leq 40$	27,43	253
180 CI	4644,461	90,000	$50 \leq R \leq 350$	7,000	0,180	53,46	40	Sí	0,013	0,404	$50 \leq v \leq 60$	57,55	136
184 CI	4718,704	39,000	$50 \leq R \leq 350$	7,000	0,180	35,19	40	No	-3,857	0,432	$v \leq 40$	31,94	74
188 CI	4791,409	70,000	$50 \leq R \leq 350$	7,000	0,180	47,14	40	Sí	4,000	0,417	$40 \leq v \leq 50$	45,34	90
192 CI	4872,624	51,500	$50 \leq R \leq 350$	7,000	0,180	40,44	40	Sí	0,300	0,431	$40 \leq v \leq 50$	37,29	150
194 CI	4889,752	30,673	$50 \leq R \leq 350$	7,000	0,180	31,21	40	No	0,544	0,432	$v \leq 40$	26,10	130
196 CI	4935,205	76,800	$50 \leq R \leq 350$	7,000	0,180	49,38	40	Sí	0,306	0,412	$40 \leq v \leq 50$	50,55	70
198 CI	4955,245	752,745	$350 \leq R \leq 2500$	4,973	0,180	148,20	40	Sí	-5,650	0,252	$140 \leq v \leq 150$	525,69	50
200 CI	5001,181	32,000	$50 \leq R \leq 350$	7,000	0,180	31,87	40	No	-1,161	0,432	$v \leq 40$	27,22	210
204 CI	5049,425	47,000	$50 \leq R \leq 350$	7,000	0,180	38,63	40	No	0,125	0,432	$v \leq 40$	35,02	170
208 CI	5179,633	30,000	$50 \leq R \leq 350$	7,000	0,180	30,86	40	No	0,761	0,432	$v \leq 40$	25,68	180