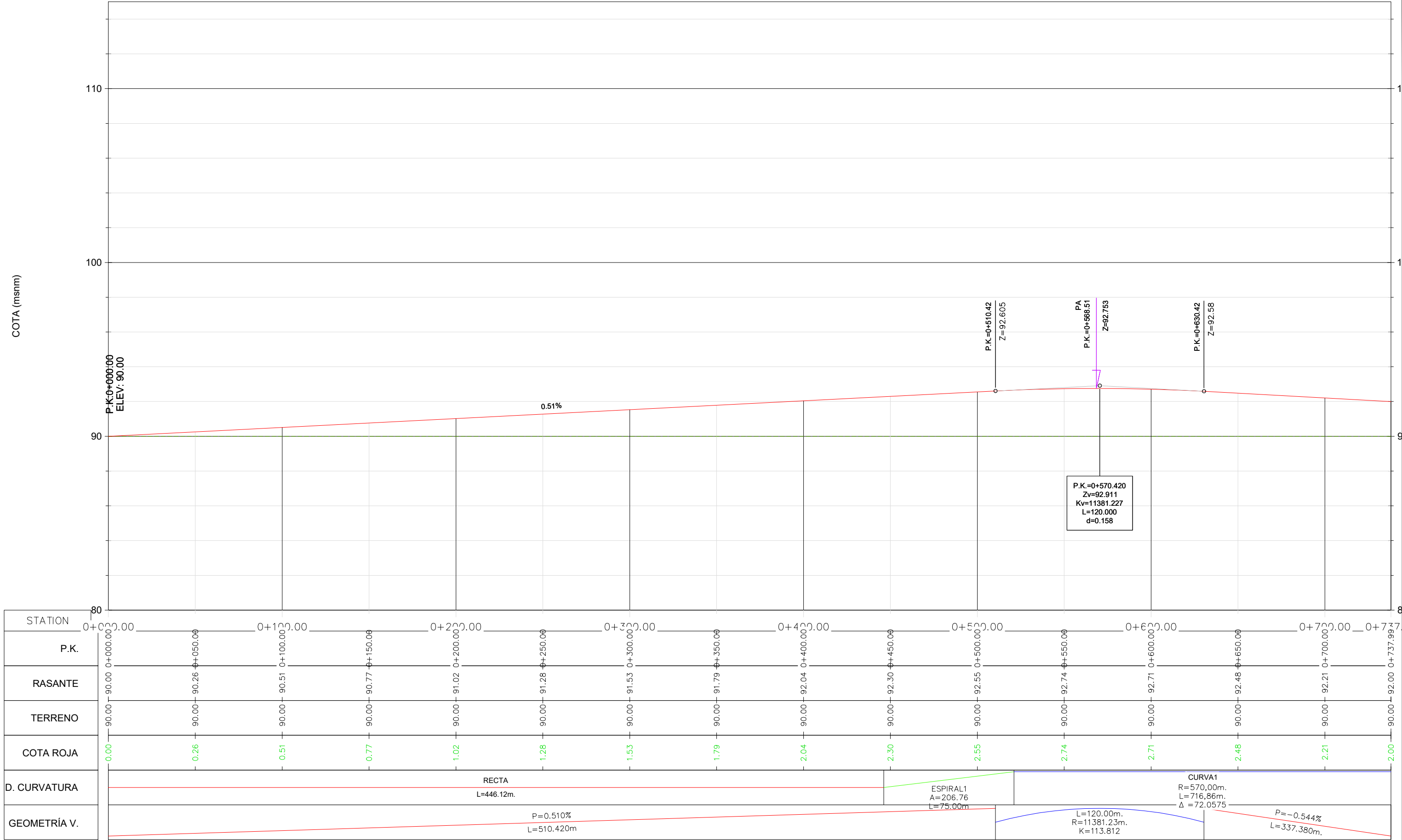
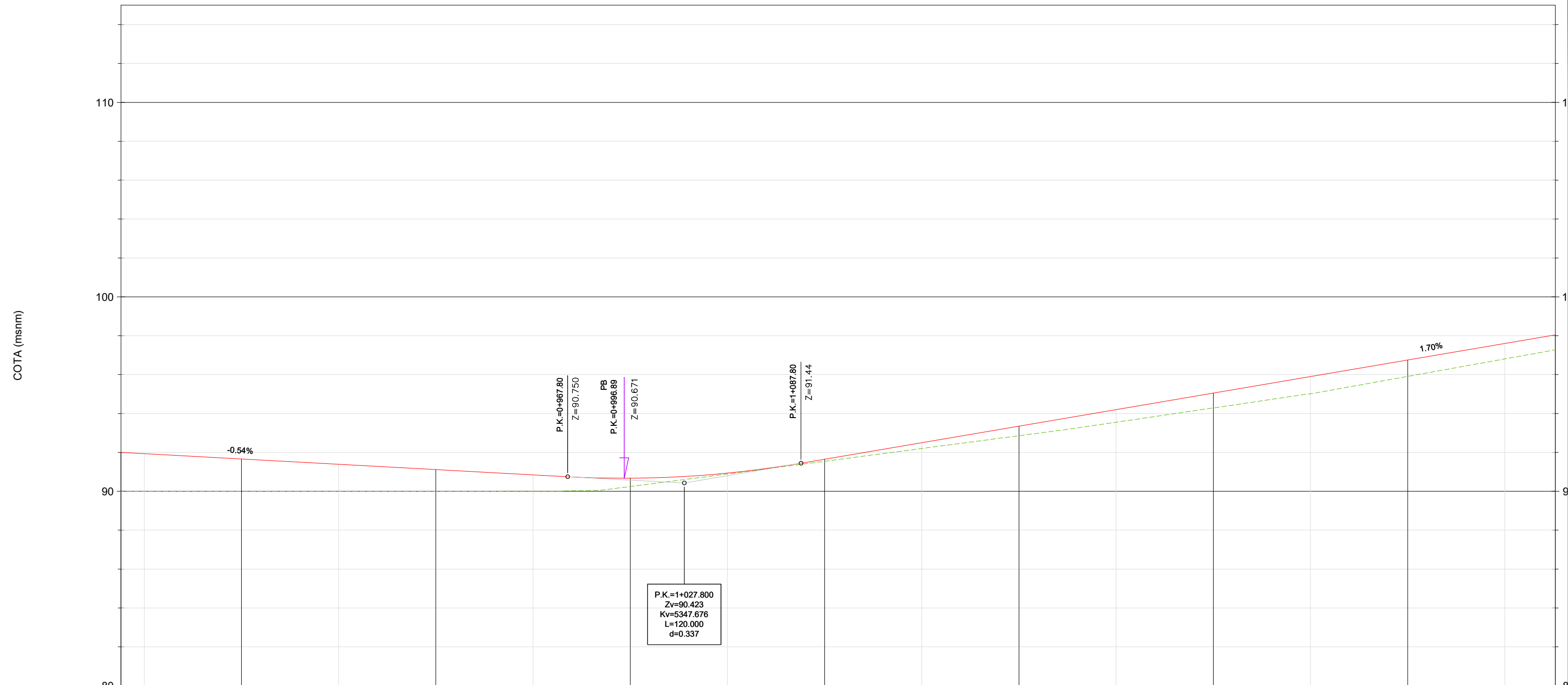


Perfil Longitudinal: BM
Escala - V: 100 H:1000

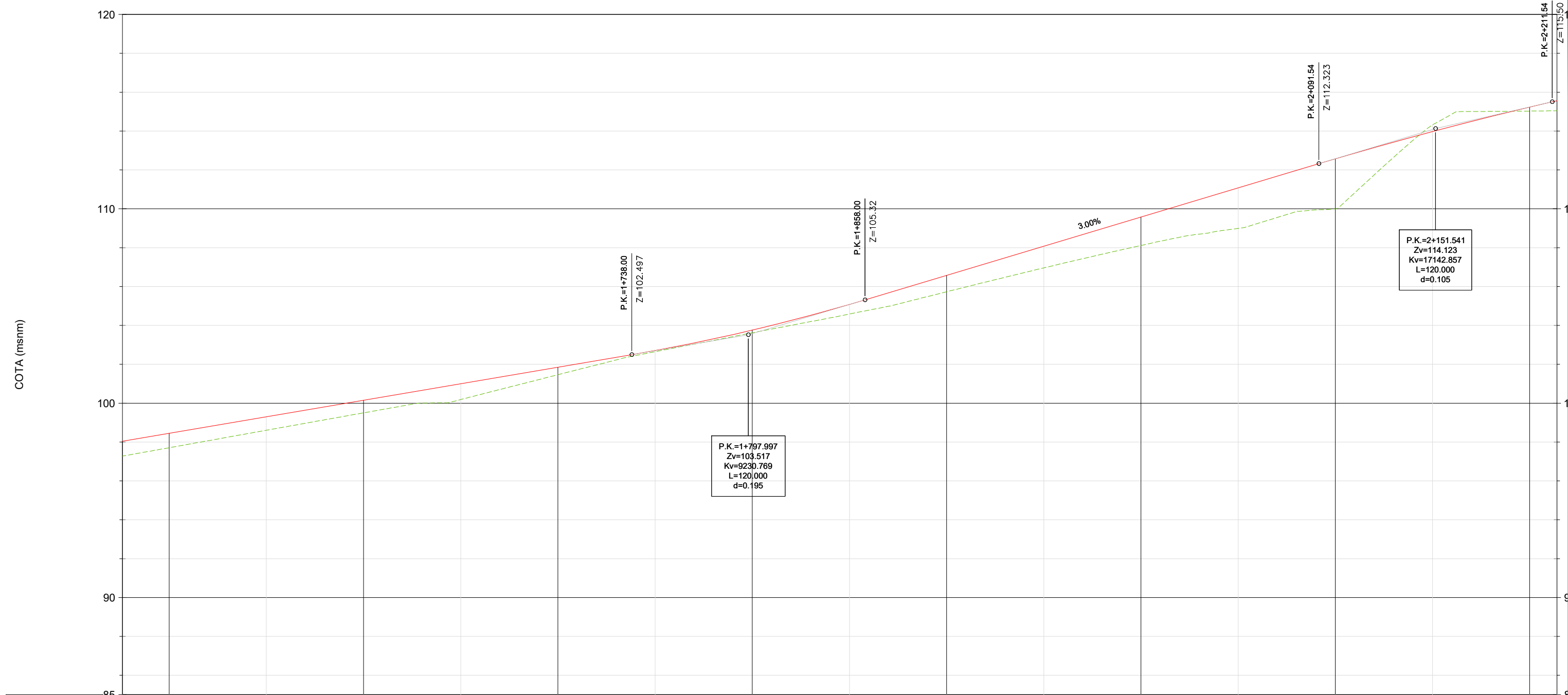


Perfil Longitudinal: BM
Escala - V: 100 H:1000



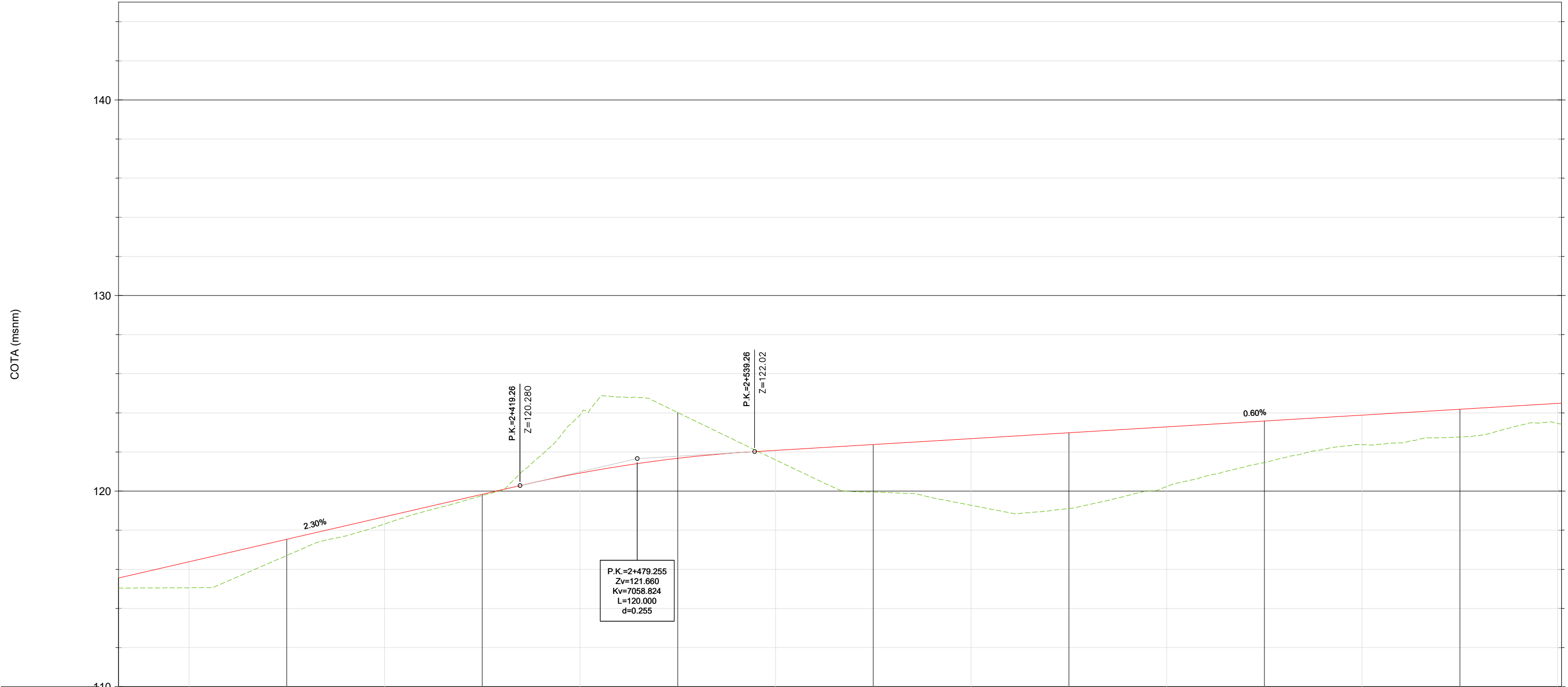
STATION	0+737.99	0+800.00	0+850.00	0+900.00	0+950.00	1+000.00	1+050.00	1+100.00	1+150.00	1+200.00	1+250.00	1+300.00	1+350.00	1+400.00	1+475.99
P.K.	0+737.99	0+800.00	0+850.00	0+900.00	0+950.00	1+000.00	1+050.00	1+100.00	1+150.00	1+200.00	1+250.00	1+300.00	1+350.00	1+400.00	1+475.99
RASANTE	92.00	91.66	91.39	91.12	90.85	90.67	90.93	91.65	92.50	93.35	94.20	95.05	95.90	96.75	98.04
TERRENO	90.00	89.99	89.99	90.00	90.00	90.24	90.89	91.54	92.20	92.86	93.55	94.28	95.01	95.91	97.28
COTA ROJA	2.00	1.94	1.67	1.40	0.85	0.43	0.05	0.11	0.30	0.49	0.65	0.77	0.89	0.84	0.77
D. CURVATURA	CURVA1 R=570,00m. L=716,86m. Δ=72,0575														
GEOMETRÍA V.	P=-0.544% L=337.380m.					L=120.00m. R=5347.68m. K=53.477					ESPIRAL2 A=206.76 L=75.00m P=1.700% L=650.197m				

Perfil Longitudinal: BM
Escala - V: 100 H:1000



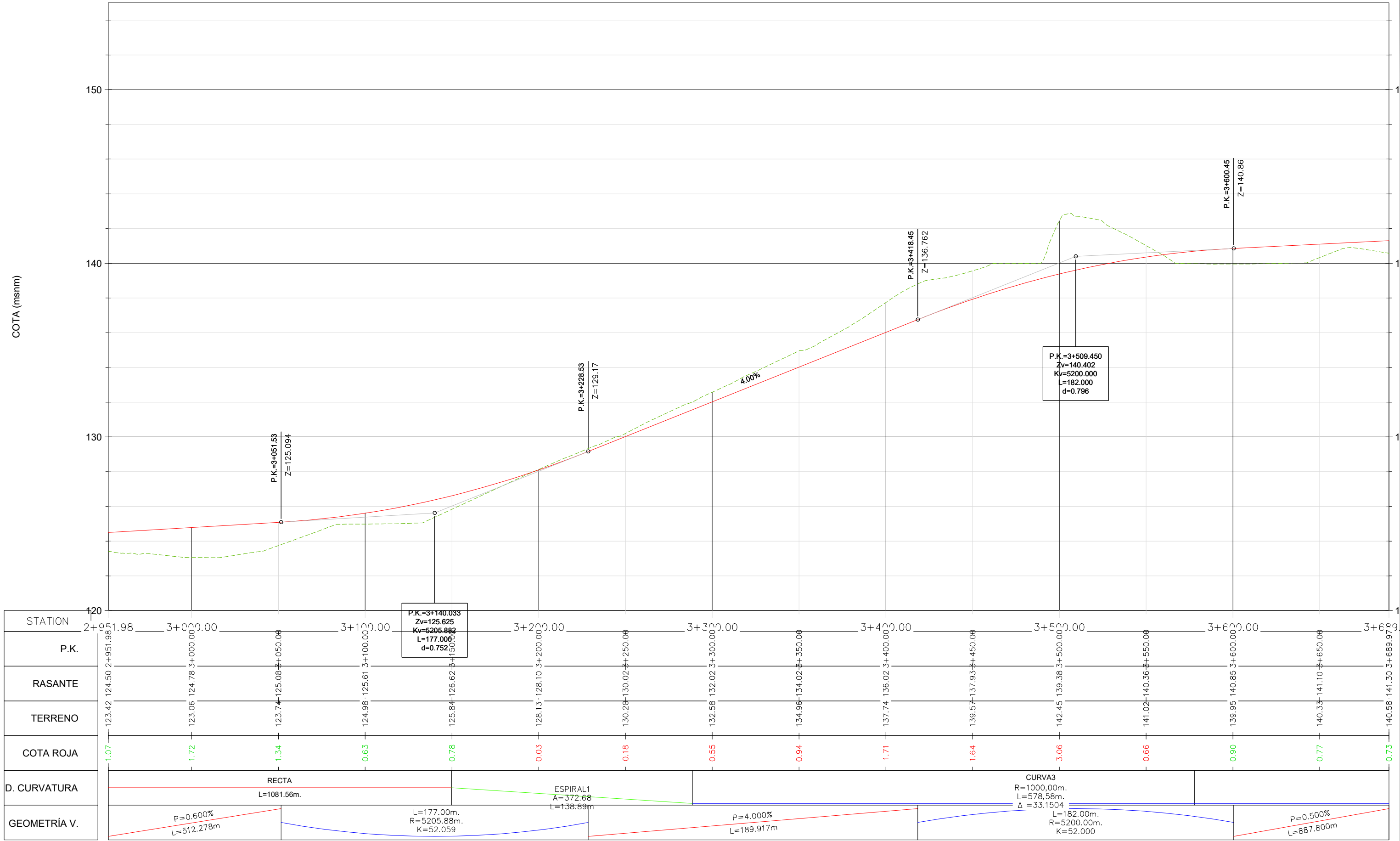
STATION	1+475.99 1+500.00 1+550.00 1+600.00 1+650.00 1+700.00 1+750.00 1+800.00 1+850.00 1+900.00 1+950.00 2+000.00 2+050.00 2+100.00 2+150.00 2+200.00 2+213.98															
P.K.	1+475.99 1+500.00 1+550.00 1+600.00 1+650.00 1+700.00 1+750.00 1+800.00 1+850.00 1+900.00 1+950.00 2+000.00 2+050.00 2+100.00 2+150.00 2+200.00 2+213.98															
RASANTE	98.04 98.45 99.30 100.15 101.00 101.85 102.71 103.76 104.59 105.08 105.58 106.58 108.08 108.99 111.08 112.57 114.32 115.56															
TERRENO	97.28 97.71 98.61 99.50 100.19 101.46 102.65 103.62 104.59 105.73 106.96 108.11 109.58 110.99 112.53 114.32 115.04															
COTA ROJA	0.77 0.74 0.69 0.65 0.81 0.39 0.06 0.14 0.49 0.84 1.12 1.46 2.08 2.58 0.34 0.21 0.52															
D. CURVATURA	RECTA L=344.99m. ESPIRAL1 A=311.80 L=138.89m CURVA2 R=700.00m. L=132.44m. Δ=10.8401 ESPIRAL2 A=311.80 L=138.89m RECTA L=1081.56m.															
GEOMETRÍA V.	P=1.700% L=650.197m L=120.00m. R=9230.77m. K=92.308 P=3.000% L=233.543m L=120.00m. R=17142.86m. K=171.429 P=2.500% L=207.715m															

Perfil Longitudinal: BM
Escala - V: 100 H:1000



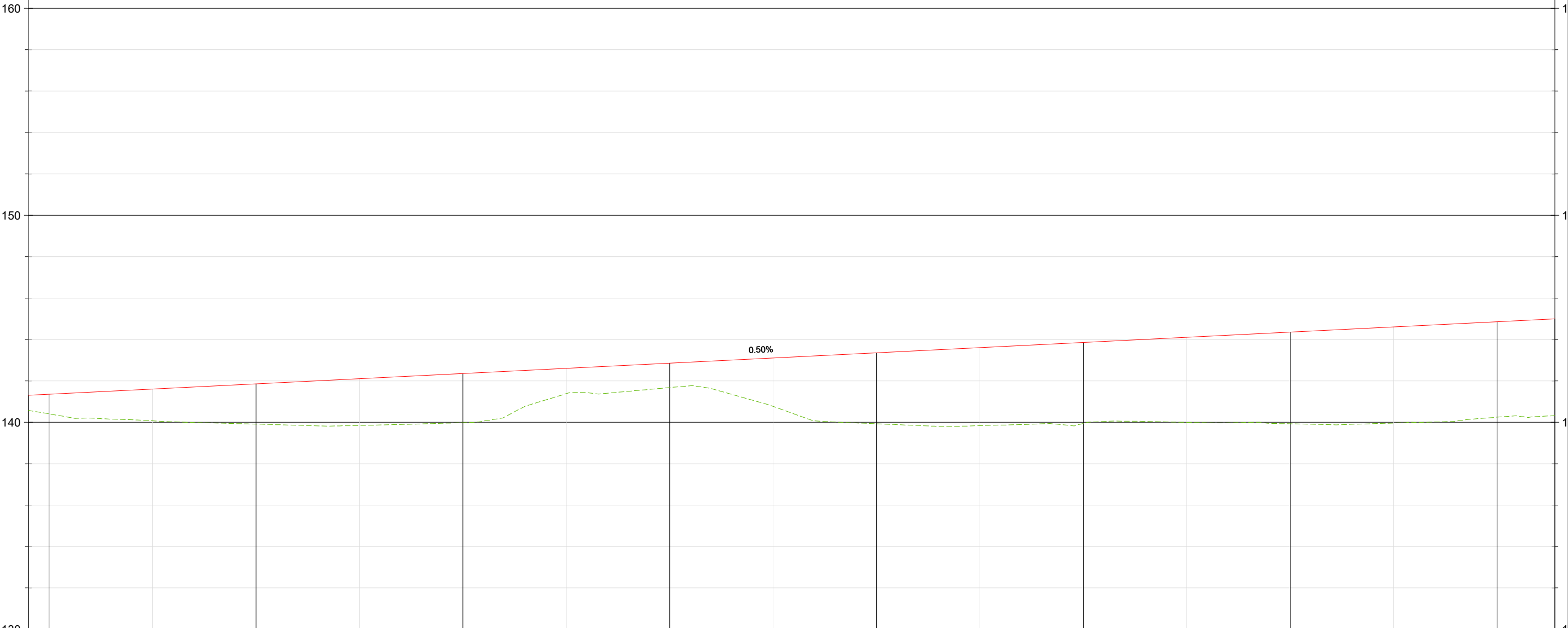
STATION	2+213.98 2+300.00 2+400.00 2+500.00 2+600.00 2+700.00 2+800.00 2+900.00 2+951.98															
P.K.	2+213.98 2+250.00 2+300.00 2+350.00 2+400.00 2+450.00 2+500.00 2+550.00 2+600.00 2+650.00 2+700.00 2+750.00 2+800.00 2+850.00 2+900.00 2+951.98															
RASANTE	115.04 115.56 116.39 117.54 118.69 119.84 120.92 121.68 122.08 122.38 122.68 122.98 123.28 123.58 123.88 124.18 124.50															
TERRENO	115.04 115.06 116.71 118.32 119.78 123.96 124.02 121.60 119.95 119.28 119.11 120.23 121.46 122.37 122.77 123.42 123.42															
COTA ROJA	0.52 1.33 0.83 0.37 0.06 2.98 2.34 0.49 2.44 3.41 3.87 3.05 2.13 1.51 1.42 1.07															
D. CURVATURA	RECTA L=1081.56m.															
GEOMETRÍA V.	P=2.300% L=207.715m L=120.00m. R=7058.82m. K=70.588 P=0.600% L=512.278m															

Perfil Longitudinal: BM
Escala - V: 100 H:1000



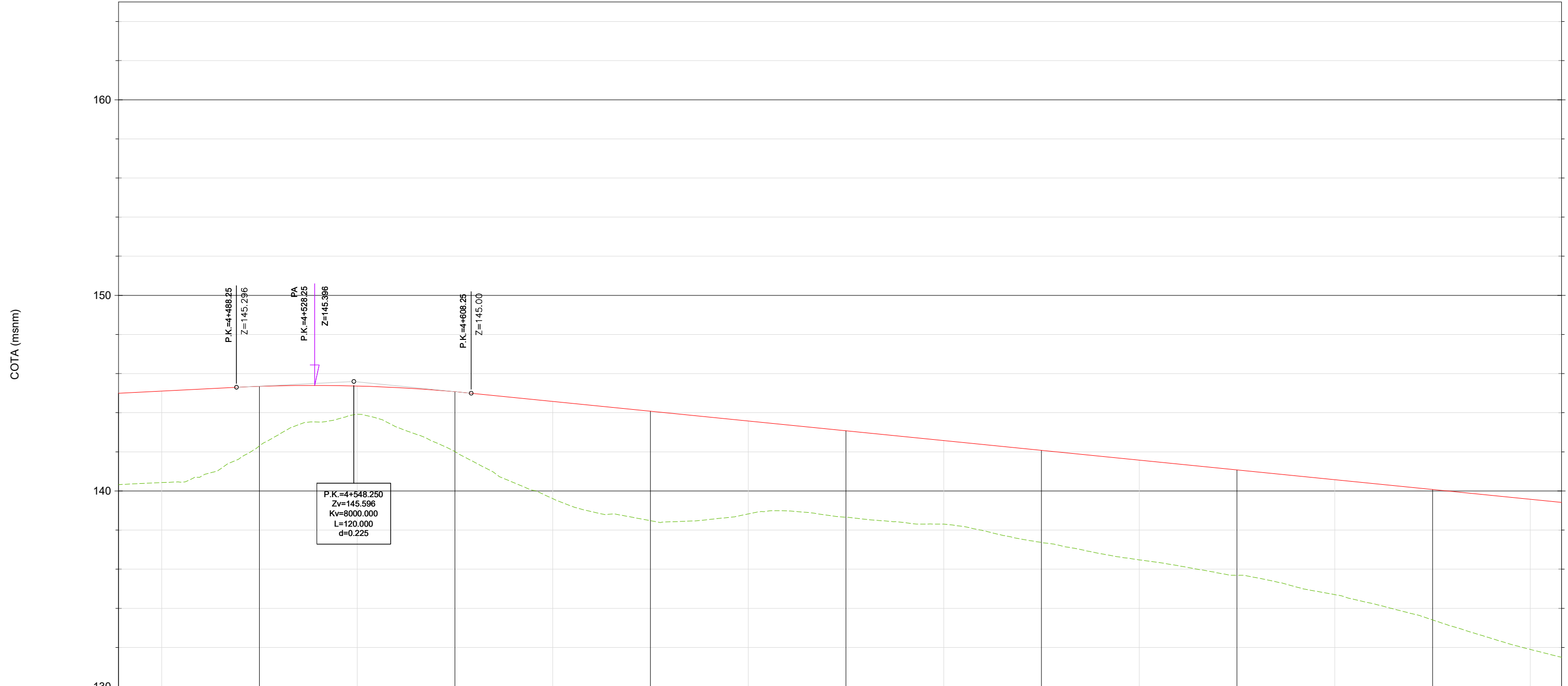
Perfil Longitudinal: BM
Escala - V: 100 H:1000

COTA (msnm)



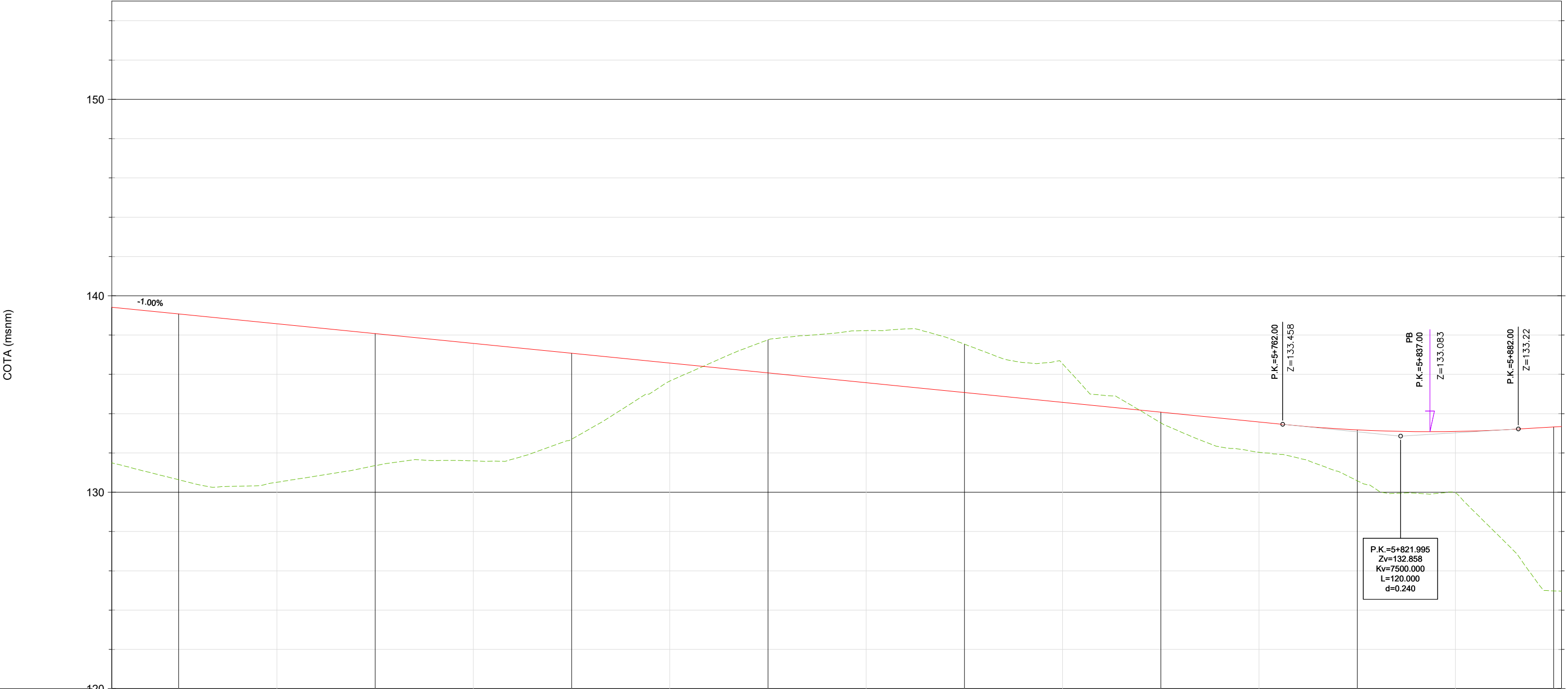
STATION	3+689.97	3+700.00	3+750.00	3+800.00	3+850.00	3+900.00	3+950.00	4+000.00	4+050.00	4+100.00	4+150.00	4+200.00	4+250.00	4+300.00	4+350.00	4+400.00	4+427.97
P.K.	3+689.97	3+700.00	3+750.00	3+800.00	3+850.00	3+900.00	3+950.00	4+000.00	4+050.00	4+100.00	4+150.00	4+200.00	4+250.00	4+300.00	4+350.00	4+400.00	4+427.97
RASANTE	140.58	141.30	141.60	141.85	142.10	142.35	142.60	142.85	143.10	143.35	143.60	143.85	144.10	144.35	144.60	144.85	144.99
TERRENO	140.41	141.35	141.60	141.85	142.10	142.35	142.60	142.85	143.10	143.35	143.60	143.85	144.10	144.35	144.60	144.85	144.99
COTA ROJA	0.73	0.95	1.53	1.94	2.26	2.37	1.22	1.18	2.34	3.43	3.76	3.91	4.11	4.43	4.64	4.61	4.67
D. CURVATURA	CURVA3 R=1000.00m. L=578.58m. Δ=33.1504						ESPIRAL2 A=372.68 L=138.89m					RECTA L=1325.49m.					
GEOMETRÍA V.	P=0.500% L=887.800m																

Perfil Longitudinal: BM
Escala - V: 100 H:1000



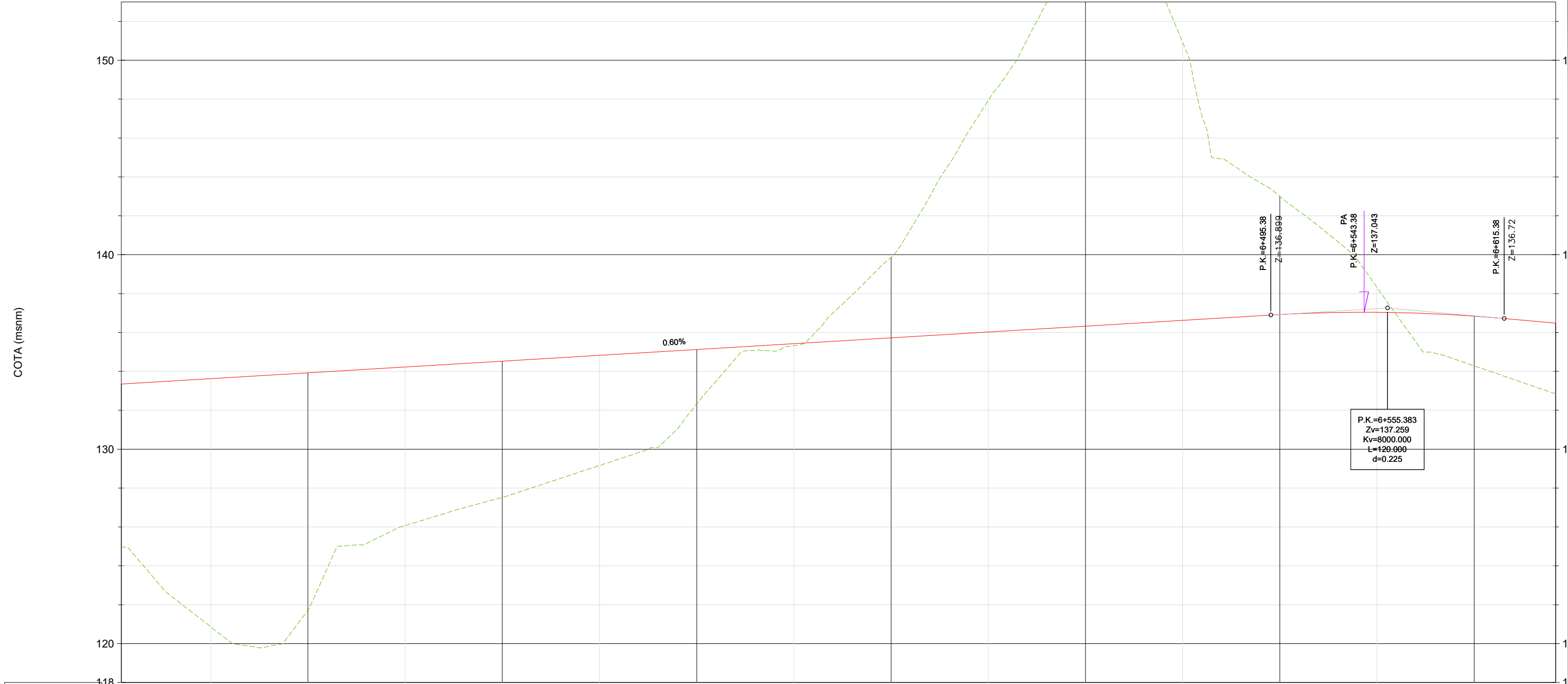
STATION	4+477.97	4+500.00	4+550.00	4+600.00	4+700.00	4+800.00	4+900.00	5+000.00	5+100.00	5+165.25
P.K.	4+477.97	4+450.00	4+500.00	4+550.00	4+600.00	4+750.00	4+850.00	4+950.00	5+050.00	5+150.00
RASANTE	140.32	140.43	142.30	143.92	142.01	139.61	138.48	138.66	137.37	136.48
TERRENO	144.99	145.10	145.35	145.37	145.07	144.58	143.58	142.58	142.08	141.58
COTA ROJA	4.67	4.68	3.05	1.45	3.06	4.97	5.60	4.75	4.42	4.27
D. CURVATURA	RECTA L=1325.49m.									
GEOMETRÍA V.	P=0.500% L=887.800m L=120.00m. R=8000.00m. K=80.000 P=-1.000% L=1153.746m.									

Perfil Longitudinal: BM
Escala - V: 100 H:1000



STATION	5+165.96_5+200.00_5+250.00_5+300.00_5+400.00_5+500.00_5+550.00_5+600.00_5+650.00_5+700.00_5+750.00_5+800.00_5+850.00_5+903.96																
P.K.																	
RASANTE																	
TERRENO																	
COTA ROJA	7.92	8.44	8.07	6.73	5.98	4.38	0.92	1.68	2.65	2.46	1.96	0.55	1.55	2.59	3.13	8.35	8.38
D. CURVATURA	RECTA L=1325.49m.			ESPIRAL1 A=350.00 L=163.33m				CURVA4 R=750.00m. L=183.15m. Δ =13.9917				ESPIRAL2 A=350.00 L=163.33m				RECTA L=1615.52m.	
GEOMETRÍA V.	P=-1.000% L=1153.746m.														P=0.600% L=613.388m.		

Perfil Longitudinal: BM
Escala - V: 100 H:1000



STATION	5+903.96	6+000.00	6+100.00	6+200.00	6+300.00	6+400.00	6+500.00	6+600.00	6+641.95							
P.K.	5+903.96	6+000.00	6+100.00	6+200.00	6+300.00	6+400.00	6+500.00	6+600.00	6+641.95							
RASANTE	124.97	120.86	121.72	126.07	127.52	129.16	132.32	135.13	139.86	147.93	155.77	150.92	143.00	138.32	134.29	132.84
TERRENO	124.97	120.86	121.72	126.07	127.52	129.16	132.32	135.13	139.86	147.93	155.77	150.92	143.00	138.32	134.29	132.84
COTA ROJA	8.38	12.77	12.21	8.15	7.01	5.67	2.81	0.10	4.13	11.91	19.44	14.30	6.08	1.28	2.56	3.64
D. CURVATURA	RECTA L=1615.52m.															
GEOMETRÍA V.	P=0.600% L=613.388m L=120.00m. R=8000.00m. K=80.000 P=-0.900% L=572.351m															

Perfil Longitudinal: BM
Escala - V: 100 H:1000



STATION	6+641.95 6+700.00 6+800.00 6+900.00 7+000.00 7+100.00 7+200.00 7+300.00 7+379.95																				
P.K.	6+641.95 6+700.00 6+750.00 6+800.00 6+850.00 6+900.00 6+950.00 7+000.00 7+050.00 7+100.00 7+150.00 7+200.00 7+250.00 7+300.00 7+350.00 7+379.95																				
RASANTE	136.48 136.41 130.96 135.51 135.06 134.61 133.71 133.26 132.81 132.36 131.91 131.47 131.38 131.77 132.63 133.38																				
TERRENO	132.84 132.57 130.86 130.00 130.00 130.04 130.00 130.00 130.00 130.05 130.13 130.18 130.10 129.94 129.91																				
COTA ROJA	3.64 3.84 5.10 5.51 5.06 4.61 4.12 3.71 3.26 2.81 2.31 1.78 1.29 1.28 1.75 2.69 3.47																				
D. CURVATURA	RECTA L=1615.52m.																				
GEOMETRÍA V.	P=-0.900% L=572.351m.												L=185.00m. R=5211.27m. K=52.113								



UNIVERSIDAD
POLITECNICA
DE VALENCIA



ANÁLISIS FUNCIONAL Y PROPUESTA DE MEJORA DEL NUDO ENTRE
LAS AUTOVÍAS A-7 Y A-3 ENTRE LOS PP.KK. 335+000 Y 336+850
(PROVINCIA DE VALENCIA)

PLANO:

ALTERNATIVA 1 -CALZADA 2
Barcelona-Madrid

AUTOR:

Luis Gabriel Buitrago Pinzón

FECHA

FEBRERO 2026

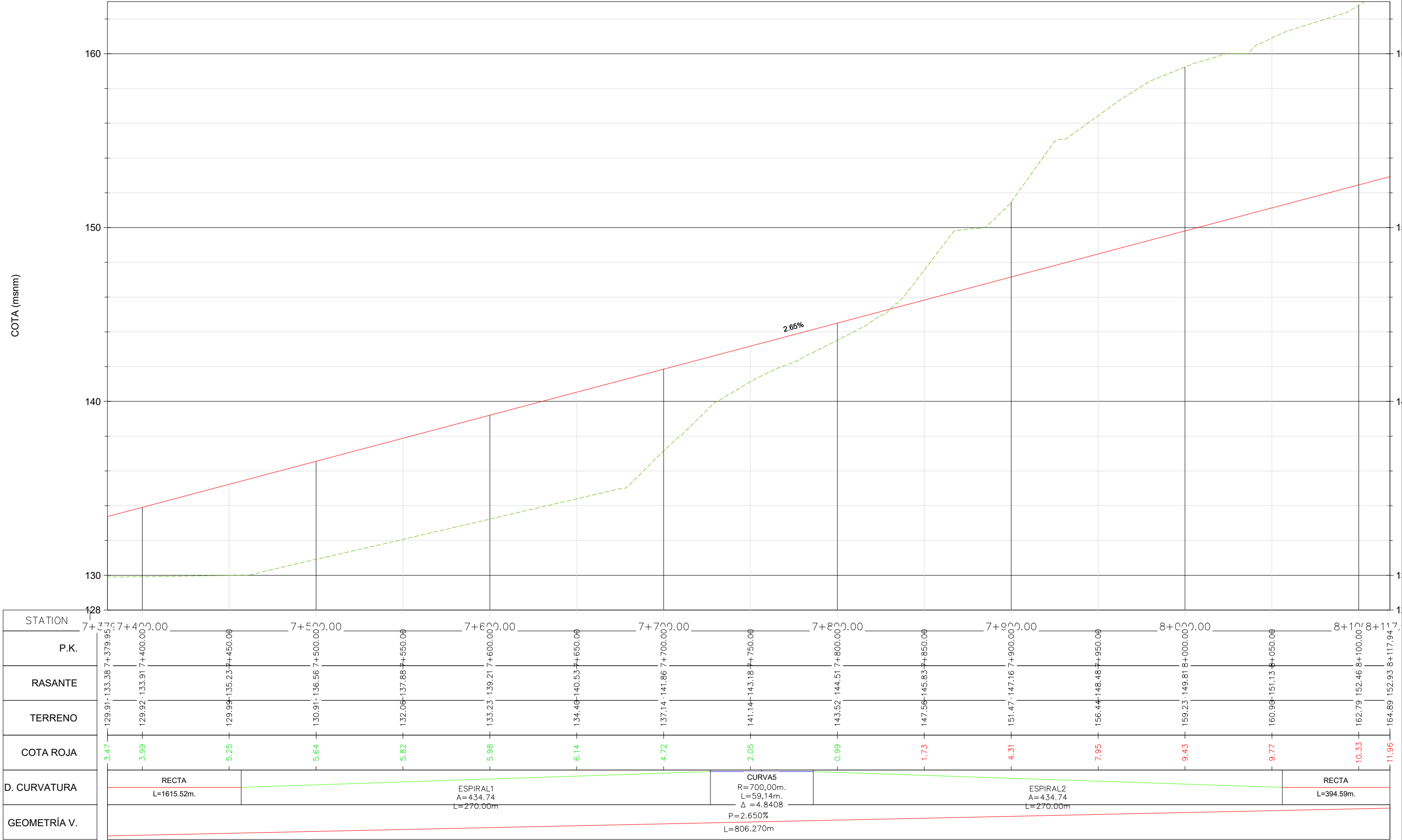
PLANO Nº 2

HOJA 10 DE 14

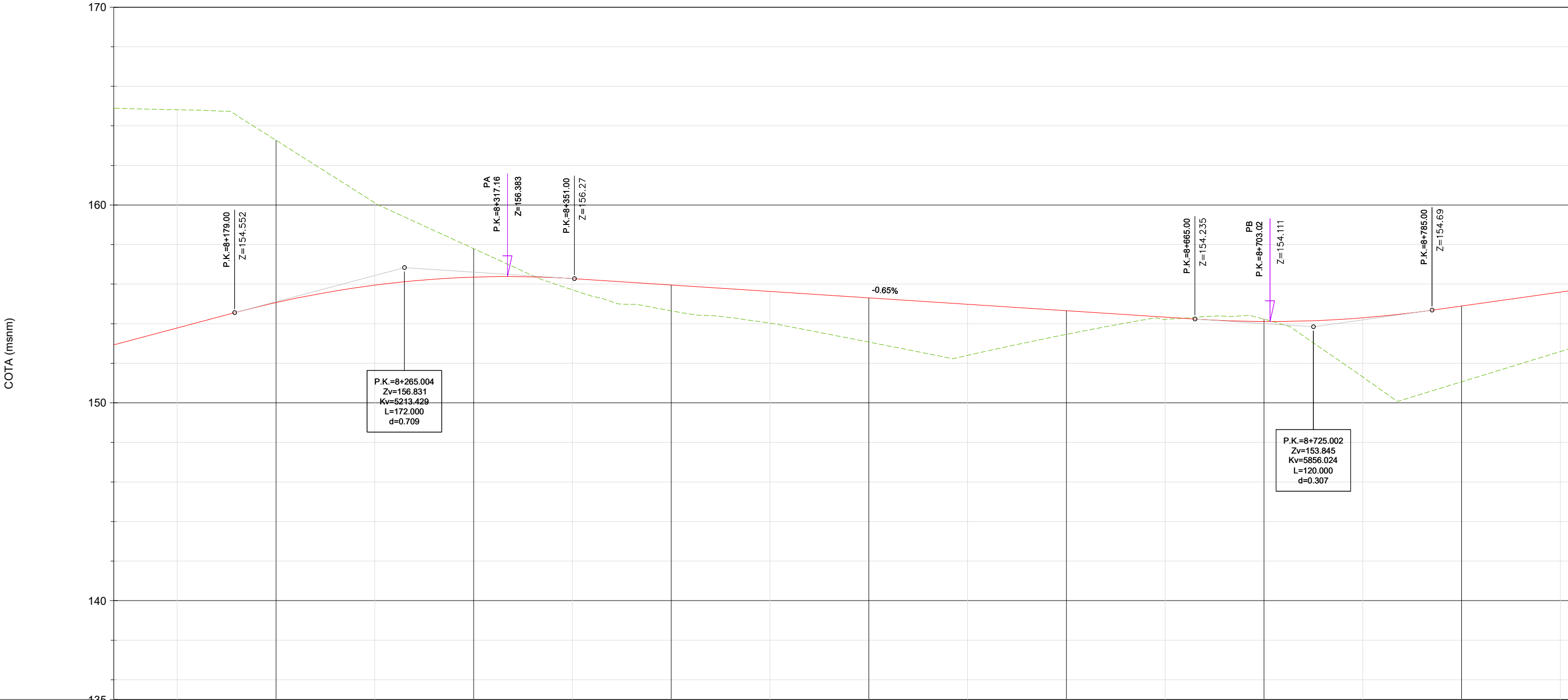
ESCALA:

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Perfil Longitudinal: BM
Escala - V: 100 H:1000

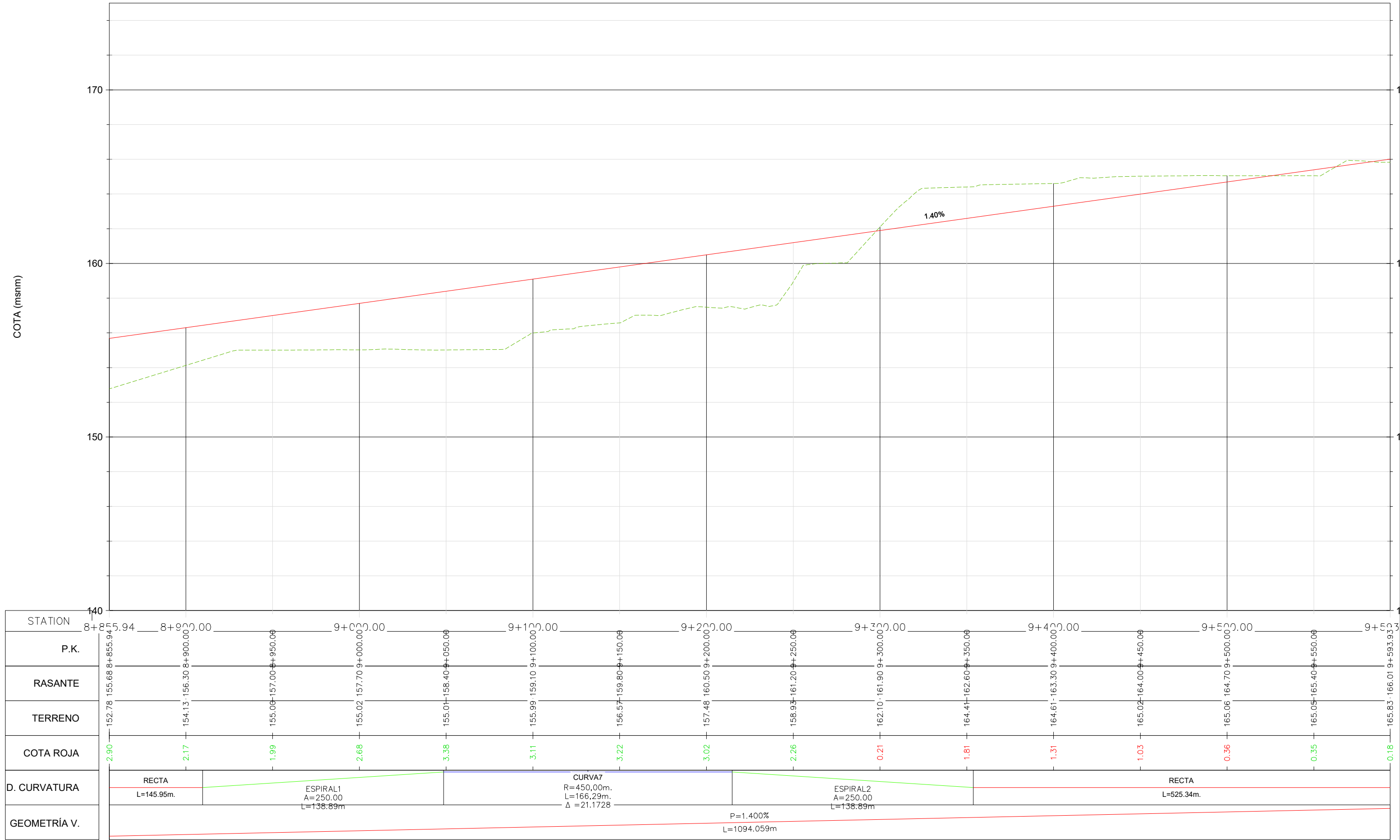


Perfil Longitudinal: BM
Escala - V: 100 H:1000

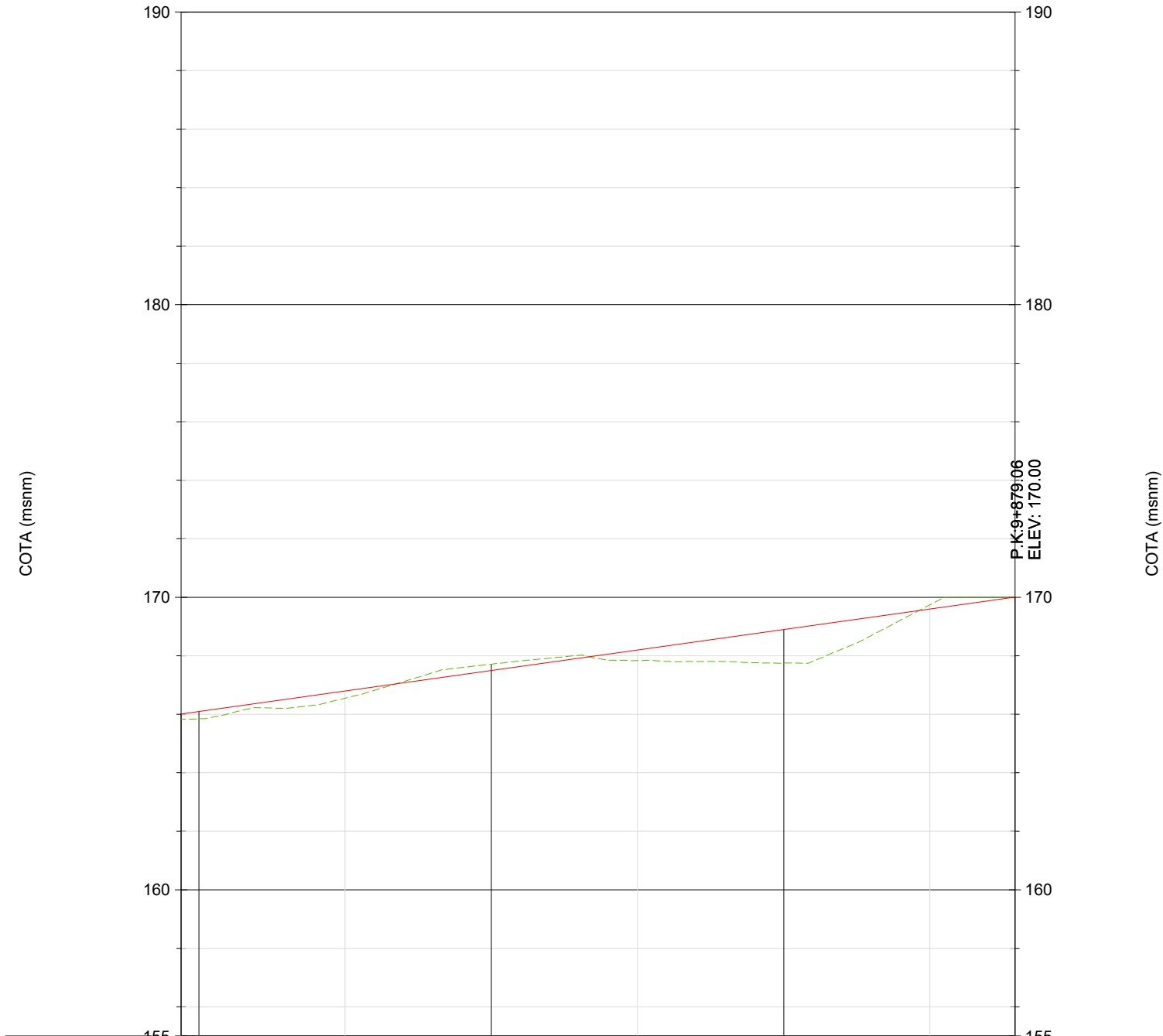


STATION	8+100.00	8+200.00	8+300.00	8+400.00	8+500.00	8+600.00	8+700.00	8+800.00	8+900.00
P.K.	8+100.00	8+200.00	8+300.00	8+400.00	8+500.00	8+600.00	8+700.00	8+800.00	8+900.00
RASANTE	152.93	153.78	155.07	156.35	155.95	154.98	154.33	154.90	155.60
TERRENO	164.89	164.82	163.27	160.11	157.80	155.71	154.07	151.30	152.59
COTA ROJA	11.96	11.03	8.21	4.16	1.44	0.57	0.13	3.00	3.00
D. CURVATURA	RECTA L=394.59m.				ESPIRAL1 A=250.00 L=138.89m	CURVA6 R=450.00m. L=35.25m. Δ=4.4884	ESPIRAL2 A=250.00 L=138.89m	RECTA L=145.95m.	
GEOMETRÍA V.	P=2.650% L=806.270m		L=172.00m. R=5213.43m. K=52.134		P=-0.649% L=313.998m.		L=120.00m. R=5856.02m. K=58.560		P=1.400% L=1094.059m

Perfil Longitudinal: BM
Escala - V: 100 H:1000



Perfil Longitudinal: BM
Escala - V: 100 H:1000



STATION	9+593.93	9+600.00	9+650.00	9+700.00	9+750.00	9+800.00	9+850.00	9+879.06
P.K.	9+593.93	9+600.00	9+650.00	9+700.00	9+750.00	9+800.00	9+850.00	9+879.06
RASANTE	166.01	166.10	166.80	167.50	168.20	168.90	169.60	170.00
TERRENO	165.83	166.10	166.55	167.71	167.84	167.75	169.74	170.00
COTA ROJA	0.18	0.25	0.25	0.22	0.36	1.15	0.15	0.00
D. CURVATURA	RECTA L=525.34m.							
GEOMETRÍA V.	P=1.400% L=1094.059m							