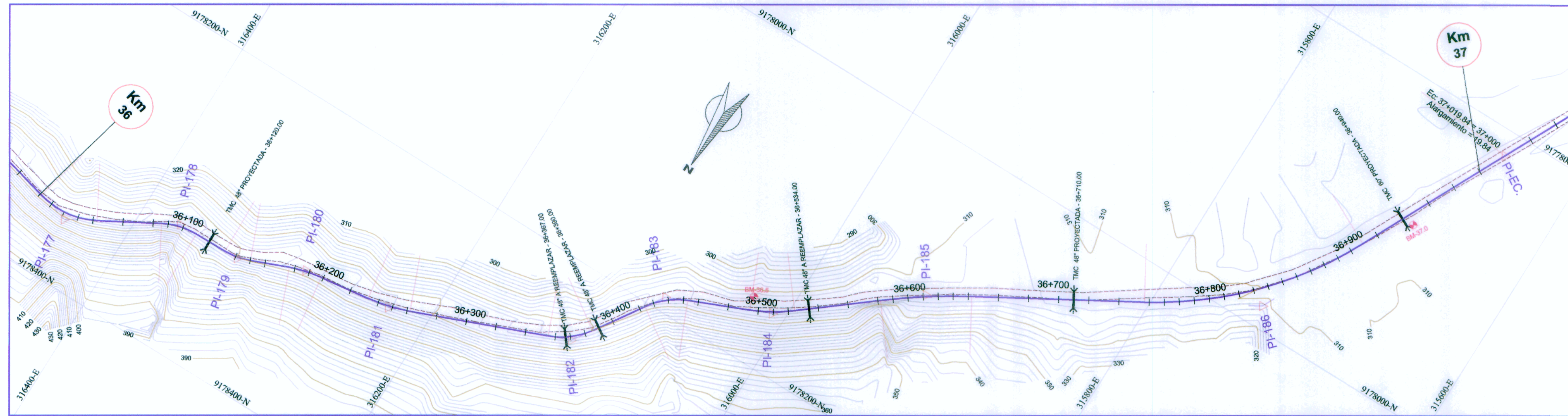


**PLANTA**  
ESCALA 1/2000



CUADRO DE COORDENADAS Y ELEMENTOS DE CURVAS

Nº PI	SENT.	DELTA	RADIO	TANG.	L.C.	Ext.	P.I.	P.C.	P.T.	NORTE	ESTE	P%	SA
177	I	43°27'18"	55.000	21.918	41.714	4.206	36 + 023.068	36 + 001.150	36 + 042.864	9178358.146	316440.874	8.0	1.60
178	D	27°50'28"	50.000	12.393	24.296	1.513	36 + 098.096	36 + 085.673	36 + 109.969	9178320.417	316373.613	8.0	1.70
179	I	20°37'39"	50.000	9.099	18.001	0.821	36 + 141.345	36 + 132.246	36 + 150.247	9178319.311	316329.858	8.0	1.70
180	D	14°11'44"	90.000	11.207	22.298	0.695	36 + 187.615	36 + 176.408	36 + 198.707	9178301.847	316286.798	7.0	1.10
181	I	13°58'47"	120.000	14.713	29.279	0.899	36 + 247.530	36 + 232.817	36 + 262.096	9178293.616	316227.335	6.0	0.90
182	I	34°38'09"	50.000	15.590	30.225	2.374	36 + 370.983	36 + 355.392	36 + 385.618	9178247.596	316112.624	8.0	1.70
183	D	33°15'50"	50.000	14.936	29.028	2.183	36 + 438.854	36 + 423.918	36 + 452.946	9178190.205	316074.631	8.0	1.70
184	I	15°34'25"	110.000	15.042	29.899	1.024	36 + 509.488	36 + 494.446	36 + 524.345	9178162.011	316008.949	6.0	0.90
185	D	8°41'42"	400.000	30.410	60.703	1.154	36 + 612.140	36 + 581.730	36 + 642.432	9178097.566	315928.810	3.0	0.40
186	I	33°30'36"	260.000	78.275	152.062	11.527	36 + 835.308	36 + 757.033	36 + 909.095	9177985.553	315735.654	4.0	0.50

**PERFIL LONGITUDINAL**

ESCALA: VERTICAL: 1/200  
HORIZONTAL: 1/2000

km.35+935 a 22.00 m. Lado izquierdo hito de concreto

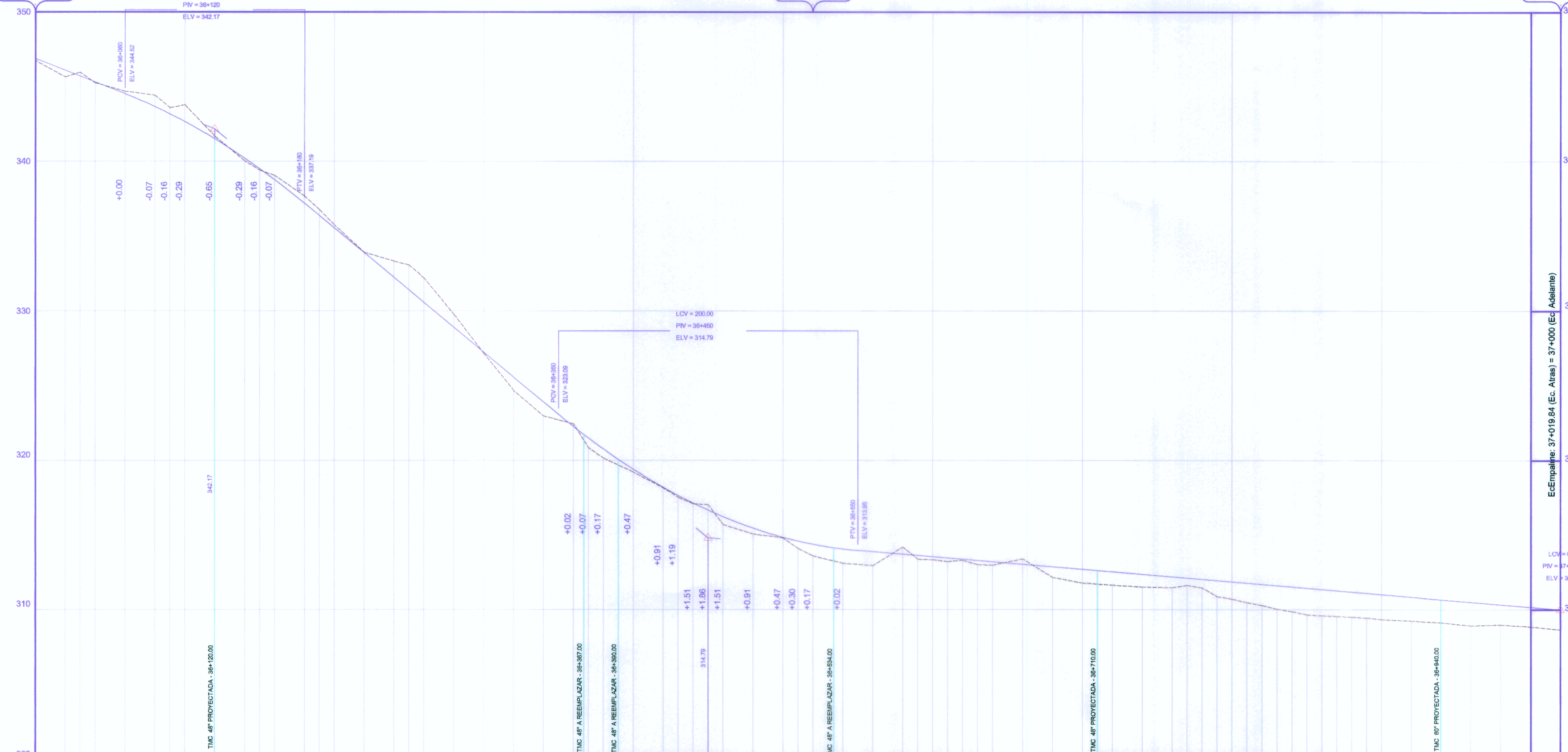
BM: 36.00  
Elevación: 349.795

km.36+496 a 9.00 m. Lado izquierdo hito de concreto

BM: 36.50  
Elevación: 313.491

km.36+944 a 7.00 m. Lado Derecho hito de concreto

BM: 37.00  
Elevación: 309.116



PENDIENTE	-3.93% en 260.00 m		-8.30% en 330.00 m		0.84% en 569.84 m																																																																																
COTA SUB-RASANTE	346.88	346.09	345.70	345.31	344.52	343.66	343.18	342.66	341.51	340.22	339.41	338.91	338.78	337.19	336.56	335.50	333.97	332.21	331.36	330.50	328.89	327.23	325.96	323.92	322.28	321.50	320.77	319.40	318.19	317.84	317.09	316.65	316.22	315.07	314.65	314.80	314.56	313.59	314.37	313.10	312.84	313.96	313.70	313.61	313.53	313.33	313.21	313.44	313.36	313.29	313.19	312.96	313.39	313.02	312.16	312.85	312.69	312.52	312.35	312.18	312.10	312.01	311.93	311.84	311.76	311.67	311.59	311.51	311.42	311.34	311.25	311.17	311.09	310.98	310.83	310.66	310.50	310.33	310.16	308.88					
COTA TERRENO	346.79	346.06	345.98	345.28	344.70	344.43	343.59	343.18	343.80	342.66	341.69	340.05	339.41	338.91	338.06	337.69	337.69	336.56	335.76	333.97	333.92	332.46	332.06	331.50	330.50	328.89	327.19	325.96	323.92	322.28	321.50	320.77	319.40	318.14	317.83	317.09	316.65	316.22	315.07	314.65	314.80	314.56	313.59	314.37	313.10	312.84	313.96	313.70	313.61	313.53	313.33	313.21	313.44	313.36	313.29	313.19	312.96	313.39	313.02	312.16	312.85	312.69	312.52	312.35	312.18	312.10	312.01	311.93	311.84	311.76	311.67	311.59	311.51	311.42	311.34	311.25	311.17	311.09	310.98	310.83	310.66	310.50	310.33	310.16	308.88
ALINEAMIENTO	PI-Nº: 177 R: 55		PI-Nº: 178 R: 50		PI-Nº: 179 R: 50		PI-Nº: 180 R: 90		PI-Nº: 181 R: 120		PI-Nº: 182 R: 50		PI-Nº: 183 R: 50		PI-Nº: 184 R: 110		PI-Nº: 185 R: 400		PI-Nº: 186 R: 260																																																																		
KILOMETRAJE	36+000	36+100	36+200	36+300	36+400	36+500	36+600	36+700	36+800	36+900	37+000																																																																										

LEYENDA  
Trazo  
Sub Rasante

*[Signature]*  
INGENIERO GERMAN YSABALAS ALEJO  
INGENIERO CIVIL  
Reg. CIP. Nº 65525

*[Signature]*  
ING. ABRHAM CABRERA NAVIDAD  
JEFE DE PROYECTO  
CIP. Nº 28219

