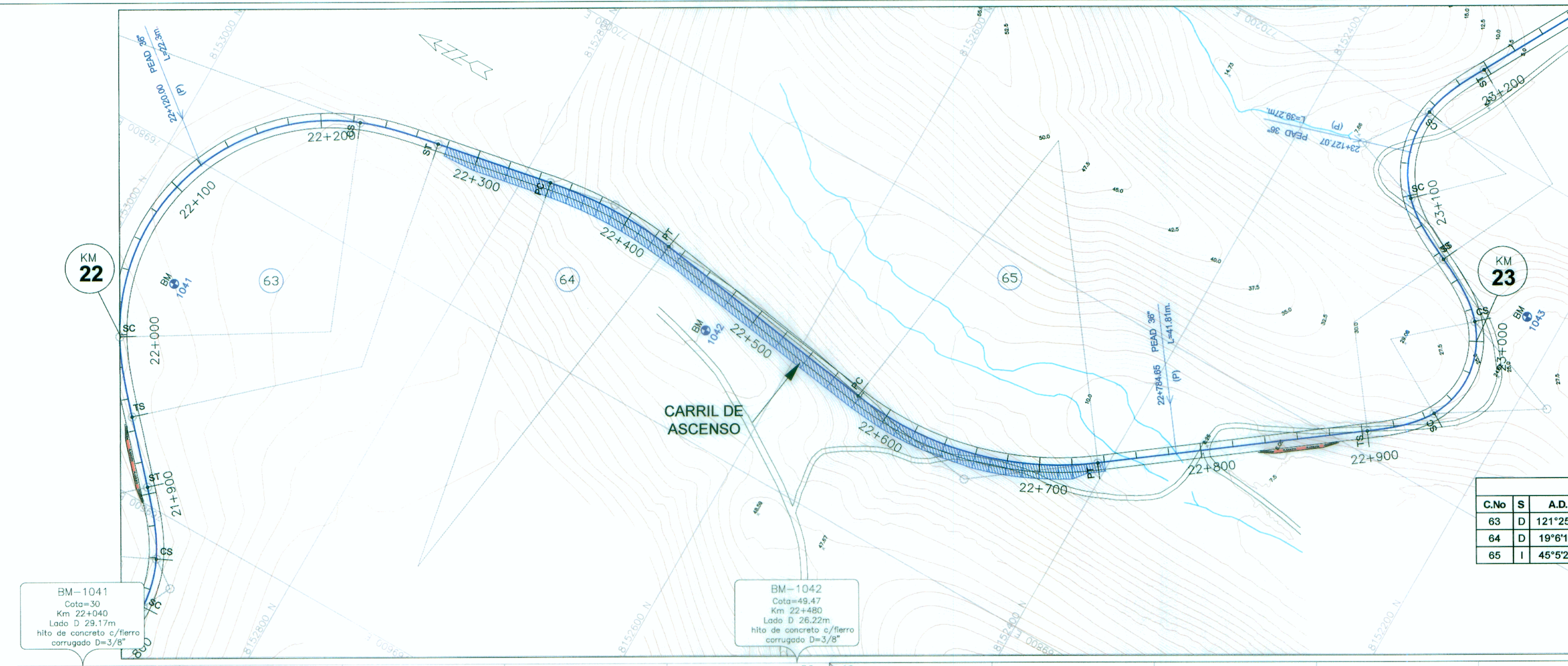
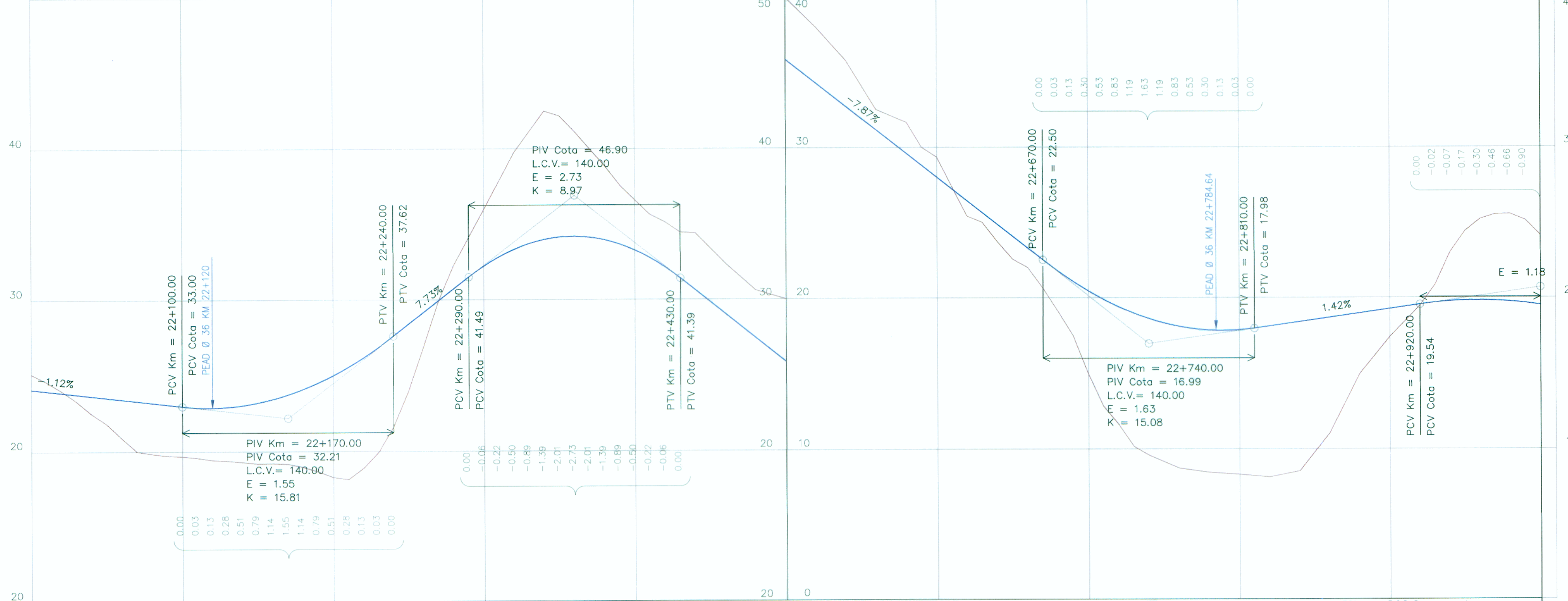


ESCALA  
H : 1/2000



ELEMENTOS DE CURVAS HORIZONTALES																
C.No	S	A.D.	R	T.G.	L.C.	Lsp e	TS	SC ó PC	PI	CS ó PT	ST	Lsp s	S.A	P %	NORTE	ESTE
63	D	121°257"	130.000	153.241	225.490	50.000	21+948.648	21+998.648	22+206.789	22+224.138	22+274.138	50.000	0.8	7.0	8153109.335	769833.890
64	D	19°6'14"	250.000	42.069	83.356			22+347.209	22+389.277	22+430.565			0.5	5.0	8152742.590	769903.431
65	I	45°5'20"	200.000	83.025	157.390			22+578.551	22+661.576	22+735.941			0.8	5.5	8152472.417	769863.694

ESCALA  
H : 1/2000  
V : 1/200



PENDIENTE	-1.12% en 360.0 m	7.73% en 190.0 m	-7.87% en 380.0 m	1.42% en 260.0 m																																																																																																																																																																																																									
COTA DE SUBRASANTE	34.12	34.01	34.03	33.90	33.79	33.67	32.50	31.83	30.89	33.45	33.34	29.85	33.31	29.67	33.00	29.67	32.92	29.42	32.90	29.37	32.94	29.28	33.05	0.51	33.23	29.19	33.46	33.76	34.12	34.55	28.65	35.04	28.27	35.59	26.13	35.59	28.89	36.20	0.13	28.89	36.20	29.94	36.88	31.61	37.62	34.00	38.40	36.92	39.17	39.95	39.94	42.26	40.71	44.11	41.49	45.96	42.21	47.85	42.81	43.31	49.73	43.69	51.12	43.69	52.50	44.12	52.19	51.15	44.17	50.00	44.11	48.86	43.93	47.59	43.65	46.60	43.25	46.60	42.74	45.63	42.74	45.11	42.12	45.11	44.43	41.39	44.37	40.60	43.36	39.82	42.34	39.03	41.46	38.24	41.46	37.45	40.58	36.67	40.28	36.67	39.99	35.09	39.01	35.09	34.31	36.03	35.52	35.81	32.73	34.17	31.95	32.53	31.16	32.10	30.37	31.67	29.58	30.00	28.80	29.35	28.01	27.38	27.22	25.42	26.44	25.00	25.65	23.71	24.86	24.07	22.54	21.96	23.29	20.83	22.50	19.10	21.75	17.50	21.06	15.00	20.44	12.83	19.88	11.62	19.39	10.16	18.87	9.57	18.62	9.14	18.33	8.71	18.10	8.57	17.95	8.43	17.85	8.36	17.83	8.30	17.87	8.20	17.98	8.12	18.12	8.11	18.26	8.31	18.41	8.52	18.41	8.80	18.55	9.80	18.69	11.08	18.69	13.04	18.83	15.00	18.97	16.21	19.11	17.43	19.25	18.43	19.40	19.46	19.64	20.53	19.66	22.99	19.75	24.40	19.80	25.19	19.81	25.00	19.78	25.53	19.72	25.12	19.62	24.12	19.49
COTA DE TERRENO	35.15	34.01	34.03	33.90	33.79	33.67	32.50	31.83	30.89	33.45	33.34	29.85	33.31	29.67	33.00	29.67	32.92	29.42	32.90	29.37	32.94	29.28	33.05	0.51	33.23	29.19	33.46	33.76	34.12	34.55	28.65	35.04	28.27	35.59	26.13	35.59	28.89	36.20	0.13	28.89	36.20	29.94	36.88	31.61	37.62	34.00	38.40	36.92	39.17	39.95	39.94	42.26	40.71	44.11	41.49	45.96	42.21	47.85	42.81	43.31	49.73	43.69	51.12	43.69	52.50	44.12	52.19	51.15	44.17	50.00	44.11	48.86	43.93	47.59	43.65	46.60	43.25	46.60	42.74	45.63	42.74	45.11	42.12	45.11	44.43	41.39	44.37	40.60	43.36	39.82	42.34	39.03	41.46	38.24	41.46	37.45	40.58	36.67	40.28	36.67	39.99	35.09	39.01	35.09	34.31	36.03	35.52	35.81	32.73	34.17	31.95	32.53	31.16	32.10	30.37	31.67	29.58	30.00	28.80	29.35	28.01	27.38	27.22	25.42	26.44	25.00	25.65	23.71	24.86	24.07	22.54	21.96	23.29	20.83	22.50	19.10	21.75	17.50	21.06	15.00	20.44	12.83	19.88	11.62	19.39	10.16	18.87	9.57	18.62	9.14	18.33	8.71	18.10	8.57	17.95	8.43	17.85	8.36	17.83	8.30	17.87	8.20	17.98	8.12	18.12	8.11	18.26	8.31	18.41	8.52	18.41	8.80	18.55	9.80	18.69	11.08	18.69	13.04	18.83	15.00	18.97	16.21	19.11	17.43	19.25	18.43	19.40	19.46	19.64	20.53	19.66	22.99	19.75	24.40	19.80	25.19	19.81	25.00	19.78	25.53	19.72	25.12	19.62	24.12	19.49
ALINEAMIENTO	CN 63 D				CN 64 D										CN 65 I										CN 66 I																																																																																																																																																																																				
DIAGRAMA DE PERALTES	CN 63 D P=7% LT=50m				CN 64 D P=3% LT=13.8m										CN 65 I P=5.5% LT=15.5m										CN 66 I P=8% LT=43m																																																																																																																																																																																				
DRENAJE	22+120.00 PEAO 36" (PROY) L=22.3m		22+784.95 PEAO 36" (PROY) L=41.81m										22+784.95 PEAO 36" (PROY) L=41.81m						22+784.95 PEAO 36" (PROY) L=41.81m																																																																																																																																																																																										
OBRAS DE ARTE	30m		50m										50m						30m																																																																																																																																																																																										
KILOMETRAJE	22+000	22+100	22+200	22+300	22+400	22+500	22+600	22+700	22+800	22+900	23+000																																																																																																																																																																																																		

**LEYENDA**

- EJE
- BORDE DE VÍA (EXISTENTE)
- BORDE DE CASA
- CERCO
- BORDILLO
- CURVA NIVEL MADRE
- CURVA NIVEL SIMPLE
- POSTE ENERGIA, MADERA
- BM
- ALCANTARILLA
- PUNTE
- CANAL
- ACCESO
- LIMIT. PROPIEDAD

PERFIL:  
 PERFIL DE TERRENO EJE PROYECTADO  
 PERFIL RASANTE EJE PROYECTADO

CC = 120m  
 ZD = 120m  
 CR = 60m

- CUNETA DE TIERRA
- CUNETA REVESTIDA
- ZANJA DE DRENAJE

*[Signature]*  
 Ing. FELIX RAUL CHIRITO SIPÁN  
 Especialista en Topografía, Trazo y Diseño Vial  
 CIP Nº 53717

*[Signature]*  
 Ing. Jorge Paredera Castañeda  
 Jefe de Estudio  
 CIP 8662

**NOTA:**  
 ESCALA MOSTRADA PARA EL FORMATO A1  
 PARA EL FORMATO A3 CONSIDERAR EL DOBLE



Diseñó: ING. RAUL CHIRITO  
 Verificó: ING. J. PÉÑARANDA C.  
 Dibujó: E. SANCHEZ O.

Aprobó:

N°	FECHA	DESCRIPCION

ESTUDIO DEFINITIVO DE LA CARRETERA: CAMANA - DESVIO QUILCA - MATARANI - ILO - TACNA, TRAMO: DESVIO QUILCA - MATARANI  
 CONTRATO N°233-2008-MTC/20

**PLANTA Y PERFIL**  
 KM 22+000 - KM 23+000

ESCALA : INDICADA  
 FECHA: SETIEMBRE-2011  
 DV-PP-023-R-01A