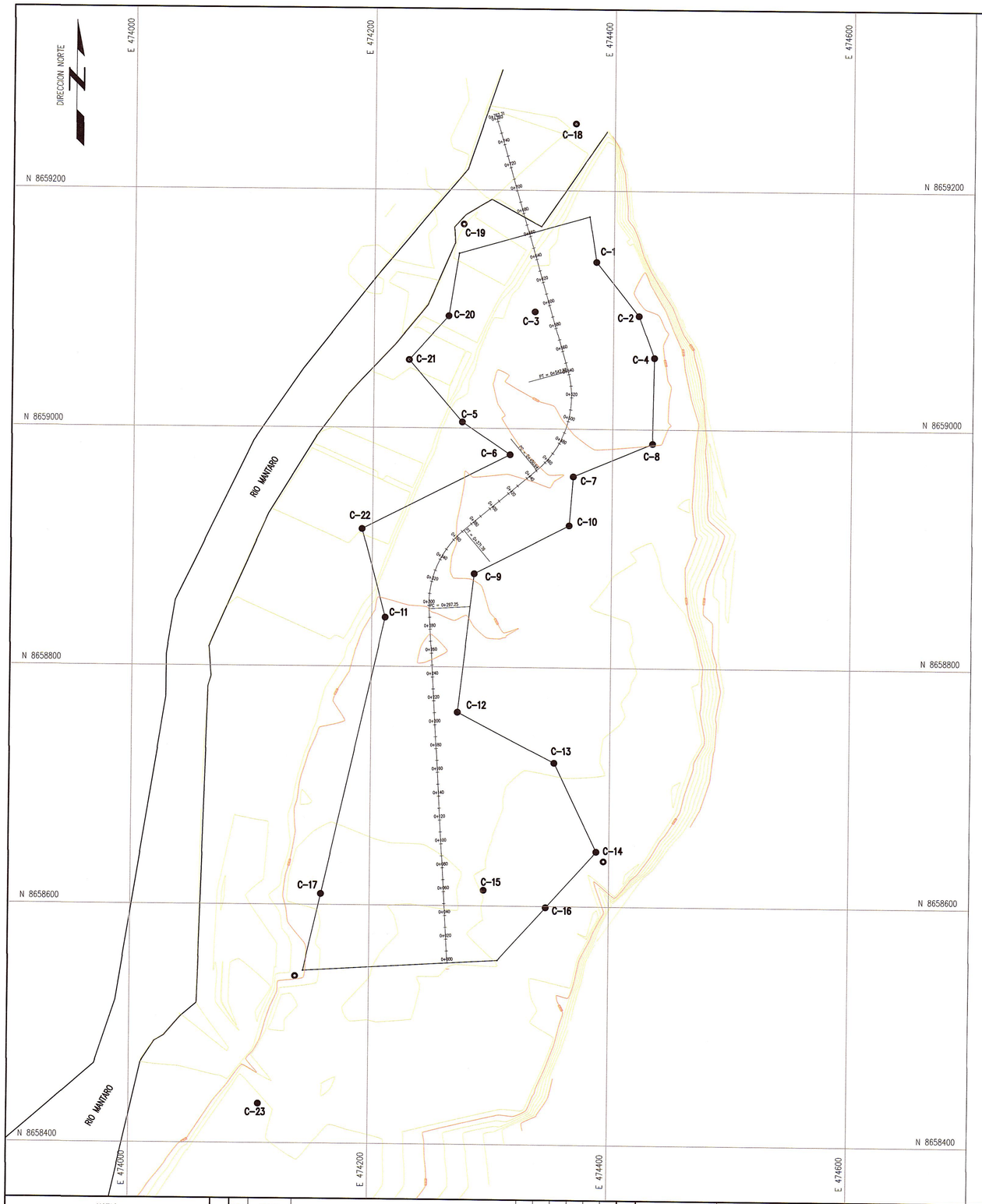

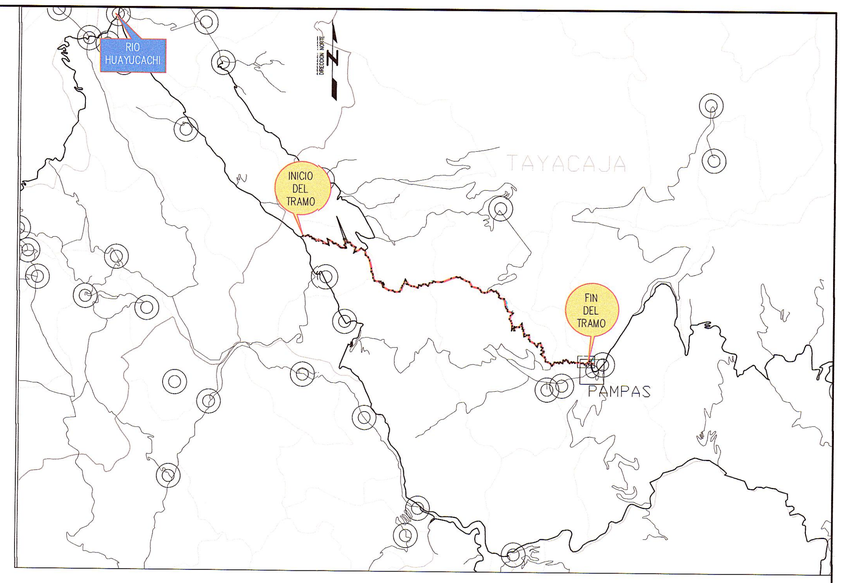

UBICACION GEOGRAFICA

1: 250,000

POLIGONO					
VERTICE	LADO	DIST.	ANGULO	ESTE	NORTE
A	A – B	72.01	201°10'20"	474435.000	8659060.000
B	B – C	71.69	246°12'56"	474434.000	8658988.000
C	C – D	41.11	117°10'25"	474368.000	8658960.000
D	D – E	89.01	238°23'11"	474365.000	8658919.000
E	E – F	116.73	123°49'23"	474286.000	8658878.000
F	F – G	91.24	111°0'47"	474273.000	8658762.000
G	G – H	82.29	216°39'0"	474354.000	8658720.000
H	H – I	63.03	247°43'37"	474390.000	8658646.000
I	I – J	60.05	180°0'0"	474348.000	8658599.000
J	J – K	162.72	224°48'48"	474307.988	8658554.225
K	K – L	66.03	286°2'8"	474145.558	8658544.569
L	L – LL	237.76	179°59'60"	474160.000	8658609.000
LL	LL – M	76.66	152°14'33"	474212.000	8658841.000
M	M – N	138.20	258°0'10"	474192.000	8658915.000
N	N – O	48.26	61°8'26"	474315.000	8658978.000
O	O – P	68.77	195°6'30"	474275.000	8659005.000
P	P – Q	49.58	262°36'7"	474230.000	8659057.000
Q	Q – R	53.13	147°7'42"	474263.000	8659094.000
R	R – S	113.38	245°2'38"	474271.181	8659146.494
S	S – T	38.39	277°16'40"	474380.114	8659177.932
T	T – U	57.63	150°9'38"	474386.000	8659140.000
U	U – A	37.34	198°1'7"	474422.000	8659095.000

Area: 79902.000 m²
Area: 7.9902 ha
Perimetro: 1852.53 ml
Volumen desechable: 179876.79 m3
Volumen a Explotar: 77090.0 m3
Volumen Total: 256966.79 m3

CUADRO DE CALICATAS		
VERTICE	ESTE	NORTE
C-1	474386.000	8659140.000
C-18	474368.000	8659256.000
C-19	474275.000	8659171.000
C-20	474263.000	8659094.000
C-21	474230.000	8659057.000
C-5	474275.000	8659005.000
C-6	474315.000	8658978.000
C-22	474192.000	8658915.000
C-11	474212.000	8658841.000
C-17	474160.000	8658609.000
C-15	474296.000	8658613.000
C-16	474348.000	8658599.000
C-14	474390.000	8658646.000
C-13	474354.000	8658720.000
C-12	474273.000	8658762.000
C-9	474286.000	8658878.000
C-10	474365.000	8658919.000
C-7	474368.000	8658960.000
C-8	474434.000	8658988.000
C-4	474435.000	8659060.000
C-2	474422.000	8659095.000
C-3	474335.000	8659098.000

STATION	AREAS Square Meters		VOLUMES Cubic Meters		CUMULATIVE VOLUMES Cubic Meters	
	CUT	FILL	CUT	FILL	CUT	FILL
0+000	352.21	0.00				
0+010	361.88	0.00	3570.46	0.00	3570.46	0.00
0+020	357.24	0.00	3595.61	0.00	7166.07	0.00
0+030	361.25	0.00	3592.43	0.00	10758.50	0.00
0+040	369.17	0.00	3652.10	0.00	14410.60	0.00
0+050	380.79	0.00	3749.83	0.00	18160.43	0.00
0+060	378.60	0.00	3796.95	0.00	21957.38	0.00
0+070	389.15	0.00	3838.73	0.00	25796.11	0.00
0+080	+402.60	0.00	3958.72	0.00	29754.82	0.00
0+090	+416.76	0.00	4096.76	0.00	33851.58	0.00
0+100	+423.09	0.00	4199.20	0.00	38050.78	0.00
0+110	+434.81	0.00	4289.49	0.00	42340.27	0.00
0+120	+443.61	0.00	4392.09	0.00	46732.36	0.00
0+130	+428.04	0.00	4358.21	0.00	51090.58	0.00
0+140	+411.20	0.00	4196.17	0.00	55286.74	0.00
0+150	+418.31	0.00	4147.52	0.00	59434.26	0.00
0+160	+420.19	0.00	4192.48	0.00	63626.74	0.00
0+170	3390.02	0.00	4051.03	0.00	67677.77	0.00
0+180	3350.40	0.00	3702.07	0.00	71379.84	0.00
0+190	3300.15	0.00	3252.74	0.00	74632.58	0.00
0+200	2252.17	0.00	2761.59	0.00	77394.17	0.00
0+210	2202.97	0.00	2275.67	0.00	79669.84	0.00
0+220	1193.54	0.00	1982.53	0.00	81652.37	0.00
0+230	1192.42	0.00	1928.77	0.00	83582.14	0.00
0+240	1205.61	0.00	1990.11	0.00	85572.26	0.00
0+250	2216.44	0.00	2110.25	0.00	87682.50	0.00
0+260	2225.78	0.00	2211.13	0.00	89893.64	0.00
0+270	2216.73	0.00	2212.59	0.00	92106.22	0.00
0+280	2212.75	0.00	2147.41	0.00	94253.63	0.00
0+290	2216.91	0.00	2148.31	0.00	96401.94	0.00
0+300	2135.34	0.00	2281.27	0.00	98663.21	0.00
0+310	2165.44	0.00	2604.57	0.00	101267.78	0.00
0+320	3123.77	0.00	3253.25	0.00	104521.03	0.00
0+330	3386.51	0.00	4270.66	0.00	108791.69	0.00
0+340	4403.12	0.00	5052.00	0.00	113843.69	0.00
0+350	3329.58	0.00	4600.00	0.00	118443.68	0.00
0+360	2271.10	0.00	3467.15	0.00	121910.84	0.00
0+370	2147.83	0.00	2787.80	0.00	124698.63	0.00
0+380	2138.52	0.00	2431.72	0.00	127130.35	0.00
0+390	2130.02	0.00	2342.68	0.00	129473.04	0.00
0+400	2125.82	0.00	2279.20	0.00	131752.24	0.00
0+410	2128.39	0.00	2271.04	0.00	134023.28	0.00
0+420	2131.57	0.00	2299.77	0.00	136323.05	0.00
0+430	2132.92	0.00	2322.43	0.00	138645.48	0.00
0+440	2135.04	0.00	2339.78	0.00	140985.26	0.00
0+450	7153.90	0.00	4944.70	0.00	145929.96	0.00
0+460	7703.81	0.00	1110.00	0.00	147039.96	0.00
0+470	6187.91	0.00	713.70	0.00	147753.65	0.00
0+480	7223.29	0.00	789.33	0.00	148542.98	0.00
0+490	6882.52	0.00	1725.39	0.00	150268.37	0.00
0+500	7031.96	0.00	3241.78	0.00	153510.16	0.00
0+510	6852.15	0.00	4116.49	0.00	157626.65	0.00
0+520	6441.96	0.00	4231.38	0.00	161858.03	0.00
0+530	6358.09	0.00	4446.33	0.00	166304.36	0.00
0+540	6464.67	0.00	4786.85	0.00	171091.21	0.00
0+550	6880.13	0.00	6624.01	0.00	177715.21	0.00
0+560	7228.73	0.00	7044.32	0.00	184759.53	0.00
0+570	7884.23	0.00	7564.79	0.00	192324.32	0.00
0+580	8222.21	0.00	8032.17	0.00	200356.49	0.00
0+590	8238.20	0.00	8252.04	0.00	208608.52	0.00
0+600	7480.48	0.00	7843.42	0.00	216451.94	0.00
0+610	6517.70	0.00	6990.91	0.00	223442.85	0.00
0+620	6353.63	0.00	6456.66	0.00	229899.52	0.00
0+630	6556.81	0.00	6452.23	0.00	236351.74	0.00
0+640	6831.06	0.00	6889.36	0.00	243041.10	0.00
0+650	6917.74	0.00	6884.01	0.00	249935.11	0.00
0+660	7088.59	0.00	7031.68	0.00	256966.79	0.00
			0.00	0.00	256966.79	0.00

GMI S.A.
ING. JOSE ROLANDO DELGADO CHE
CIP. 59767
Especialista en Suelos y Pavimentos

GMI S.A.
Ing. C. Fabian Quispe Vargas, PMP
Jefe de Estudio
CIP. 97024

LEYENDA

- CURVA INDICE — 3900
- CURVA INTERMEDIA
- EJE PROYECTADO
- CALICATA
- CANTERA

NOTAS

1. SISTEMA DE REFERENCIA PLANIMETRICO UTM WGS84
2. SISTEMA DE REFERENCIA ALTIMETRICO COTA NIVELADA PARTIENDO DEL VALOR EGM96
3. UNIDAD DE MEDIDA: METRO
4. TOPOGRAFIA ACTUALIZADA AL 02-01-13

REVISIONES									
REV.	FECHA	DESCRIPCIÓN	DIB.	DS.	JD	JP	GE	CLT
A	02.ENE.13	EMITIDO PARA CORDINACION INTERNA	WPA	REF	REF	MHM	APM	.
B	18.FEB.13	EMITIDO PARA APROBACION DEL CLIENTE	JJF	NPF	REF	MHM	APM	.
0	08.ABR.13	EMITIDO PARA CONSTRUCCION	JJF	NPF	JMA	MHM	APM	.
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REFERENCIAS	
PLANO N°	REFERENCIA
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MTC PROVIAS NACIONAL — Ministerio de Transportes y Comunicaciones

ASTALDI GyM
Consorcio Rio Mantaro
Kallpa GENERACIÓN S.A.

NUMERO PLANO CLIENTE
.

DIBUJO	JOEL JUAREZ	FECHA APROB.	08.ABR.2013
JEFE DISCIPLINA	JOSE MELCHOR	FECHA APROB.	08.ABR.2013
JEFE DE PROYECTO	MARTHA HERRERA	FECHA APROB.	08.ABR.2013
GERENTE DE ESTUDIO	ALBERTO PONCE	FECHA APROB.	08.ABR.2013
CLIENTE	.	FECHA APROB.	.
COD. PROY. GMI No.	.	COD. PROY. CLIENTE No.	.

PROPIETARIO: MTC - PROVIAS NACIONAL

PROYECTO: ESTUDIO DEFINITIVO PARA LA REHABILITACIÓN Y MEJORAMIENTO DE LA CARRETERA: DV IMPERIAL – PAMPAS

PLANO: SECTOR: Km 0+000 – Km 36+140
PLANTA CANTERA RIO MANTARO

ESCALA	NUMERO PLANO	REV.
1:2000	181152-100-59-4	0

CONFIDENCIAL
ESTE PLANO Y LA INFORMACION CONTENIDA EN EL, SON PROPIEDAD DE MTC – PROVIAS NACIONAL SU USO Y REPRODUCCION SIN AUTORIZACION PREVIA, ESTAN PROHIBIDOS.

GMI
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