



CUADRO DE COORDENADAS Y ELEMENTOS DE CURVA

No. PI	ANGULO	S	RADIO	PI	PC	PT	T	LC	EXT.	NORTE	ESTE	P%	S.A
35	34° 07' 36.56"	I	430.00	16+694.20	16+562.21	16+818.33	131.98	256.12	19.80	8,749,969.239	246,596.347	4.00	0.40
36	30° 59' 53.56"	D	450.00	17+066.87	16+942.08	17+185.54	124.79	243.46	16.98	8,750,305.007	246,407.299	2.00	-0.30
37	18° 44' 58.89"	I	520.00	17+429.02	17+343.17	17+513.33	85.85	170.17	7.04	8,750,672.791	246,426.119	2.00	-0.30
38	13° 33' 22.57"	D	500.00	18+365.88	18+306.46	18+424.76	59.43	118.30	3.52	8,751,575.646	246,170.290	4.00	0.30
39	8° 02' 33.27"	I	1,000.00	18+591.70	18+521.40	18+681.77	70.30	140.37	2.47	8,751,801.844	246,161.347	2.00	-
40	3° 08' 02.31"	D	1,000.00	18+904.26	18+876.90	18+931.60	27.36	54.70	0.37	8,752,109.584	246,105.384	2.00	-
41	5° 47' 22.09"	D	1,000.00	19+189.16	19+138.59	19+239.64	50.57	101.05	1.28	8,752,392.269	246,069.810	2.00	-
42	3° 02' 22.83"	D	1,500.00	19+509.48	19+469.68	19+549.25	39.80	79.58	0.53	8,752,712.576	246,062.076	2.00	-
43	45° 52' 44.44"	I	65.00	19+887.14	19+859.63	19+911.67	27.51	52.05	5.58	8,753,090.098	246,072.993	8.00	1.40
44	3° 38' 49.88"	I	500.00	20+141.19	20+125.28	20+157.10	15.92	31.83	0.25	8,753,274.295	245,893.729	4.00	0.30
45	80° 06' 46.70"	I	65.00	20+389.28	20+334.63	20+425.51	54.65	90.89	19.92	8,753,440.722	245,709.737	8.00	1.40
46	79° 14' 04.67"	D	65.00	20+533.32	20+479.52	20+569.40	53.81	89.89	19.38	8,753,340.740	245,581.687	8.00	1.40
47	13° 20' 56.19"	I	500.00	20+693.89	20+635.38	20+751.87	58.51	116.49	3.41	8,753,458.299	245,447.646	4.00	0.30
48	22° 04' 59.67"	D	280.00	20+881.32	20+824.57	20+936.56	56.75	111.99	5.69	8,753,546.261	245,281.536	5.00	0.50
49	54° 00' 10.17"	D	160.00	21+266.24	21+184.72	21+335.52	81.53	150.80	19.57	8,753,845.815	245,037.395	6.50	0.80
50	22° 32' 52.43"	D	200.00	21+512.50	21+472.63	21+551.34	39.87	78.71	3.94	8,754,095.720	245,103.527	6.00	0.60
POT				21+787.74						8,754,315.280	245,271.213		
51	19° 53' 38.34"	D	500.00	22+133.50	22+045.82	22+219.43	87.69	173.61	7.63	8,754,589.379	245,481.987	3.50	0.30
52	2° 00' 36.87"	I	1,000.00	22+386.74	22+369.19	22+404.28	17.54	35.09	0.15	8,754,726.564	245,596.937	2.00	-
53	5° 48' 47.43"	I	1,500.00	22+837.78	22+761.62	22+913.81	76.16	152.19	1.93	8,754,982.409	246,068.400	2.00	-
54	20° 27' 11.30"	I	400.00	23+215.11	23+142.95	23+285.74	72.16	142.79	6.46	8,755,226.904	246,355.984	4.00	0.40
55	10° 07' 08.22"	I	700.00	23+783.20	23+721.22	23+844.85	61.97	123.63	2.74	8,755,724.251	246,633.675	2.00	0.30
POI				24+238.47						8,756,154.870	246,782.434		
56	0° 45' 32.31"	I	1,000.00	24+558.00	24+538.13	24+577.87	19.87	39.74	0.07	8,756,455.268	246,691.349	2.00	-
57	0° 58' 21.36"	D	2,500.00	25+431.24	25+410.02	25+452.46	21.22	42.44	0.09	8,757,280.086	247,178.099	2.00	-
58	1° 14' 36.38"	I	2,000.00	25+846.47	25+824.77	25+868.17	21.70	43.40	0.12	8,757,669.922	247,321.089	2.00	-
59	3° 56' 43.58"	I	1,000.00	26+790.44	26+755.99	26+824.85	34.44	68.86	0.59	8,758,562.999	247,626.845	2.00	-
60	0° 41' 46.15"	I	1,000.00	27+281.76	27+275.68	27+287.83	6.08	12.15	0.02	8,759,037.707	247,753.633	2.00	-
61	12° 25' 30.24"	I	700.00	30+275.81	30+196.36	30+354.59	79.45	158.23	4.49	8,761,939.541	248,491.021	2.00	0.30
62	5° 18' 02.43"	D	1,500.00	30+796.56	30+727.13	30+865.90	69.44	138.77	1.61	8,762,460.829	248,502.910	2.00	-
63	12° 25' 30.24"	I	400.00	31+066.74	31+023.20	31+109.94	43.54	86.74	2.36	8,762,729.311	248,534.009	4.00	0.40
64	7° 10' 33.27"	I	400.00	31+221.87	31+196.79	31+196.79	25.08	50.10	0.79	8,762,876.286	248,584.709	4.00	0.40
65	8° 38' 37.89"	D	400.00	31+378.26	31+348.03	31+408.38	30.23	60.35	1.14	8,763,029.404	248,616.855	4.00	0.40
66	30° 16' 28.04"	I	200.00	31+594.85	31+540.74	31+646.42	54.10	105.68	7.19	8,763,232.381	248,692.745	6.00	0.60

PASIVO AMBIENTAL
ALMACEN EN BORDE DE VIA
KM 21+300

FUENTE DE AGUA
UBICACIÓN: Km. 21+300.00
LADO DERECHO
ACCESO 20 m.

CAMPAMENTO Y PATIO DE MAQUINARIAS
UBICACIÓN: Km. 27+245.00
AREA : 5000.00m²

CAMPAMENTO
AREA=1500m²

VERTICE	LADO	DISTANCIA	ANG. INTERNO	ESTE (X)	NORTE (Y)
A	A-B	50.00	89°59'31"	247 691.12	8 758 915.41
B	B-C	30.00	90°0'29"	247 643.10	8 758 929.33
C	C-D	50.00	89°59'31"	247 651.45	8 758 958.15
D	D-A	30.00	90°0'29"	247 699.47	8 758 944.23

PATIO DE MAQUINAS
AREA=3500m²

VERTICE	LADO	DISTANCIA	ANG. INTERNO	ESTE (X)	NORTE (Y)
C	C-D	50.00	89°59'31"	247 651.45	8 758 958.15
D	D-E	70.00	90°0'29"	247 699.47	8 758 944.23
E	E-F	50.00	89°59'31"	247 718.96	8 759 011.46
F	F-C	70.00	90°0'29"	247 670.93	8 759 025.38

UBICACIÓN : Km. 31+382
ACCESO : LADO DERECHO 20 m.

ESTUDIO DEFINITIVO DEL PROYECTO REHABILITACION Y MEJORAMIENTO DE LA CARRETERA RIO SECO (EL AHORCADO - SAYAN)
Ing. Hilario Huerta Olivares
C.I.P. 43262

ESTUDIO DEFINITIVO DEL PROYECTO REHABILITACION Y MEJORAMIENTO DE LA CARRETERA RIO SECO (EL AHORCADO - SAYAN)
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JEFE DE PROYECTO: ING. HILARIO HUERTA OLIVERA
C.I.P. 43262
ESPECIALISTA: ING. HILARIO HUERTA OLIVERA
C.I.P. 43262
REVISOR: ING. LUIS BENDEZU VELARDE
C.I.P. 43296
PROCESO / DIBUJO: EDWIN

APROBADO:

Nº	FECHA	DESCRIPCION

PROYECTO:
ESTUDIO DEFINITIVO DEL PROYECTO DE REHABILITACION Y MEJORAMIENTO DE LA CARRETERA RIO SECO - EL AHORCADO - SAYAN

PLANO:
PLANO CLAVE
KM 16+000 - KM 31+000

ESCALA: INDICADA
FECHA: SETIEMBRE 2011
PCL-02 03