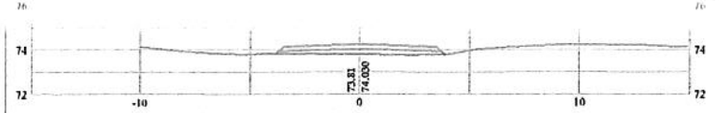

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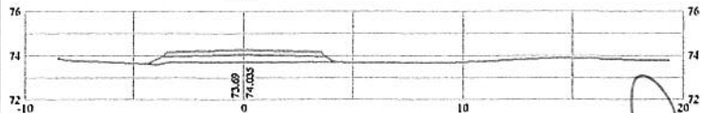

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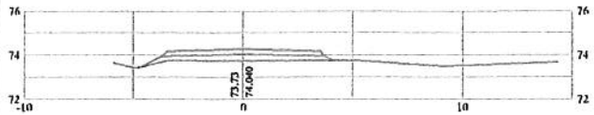

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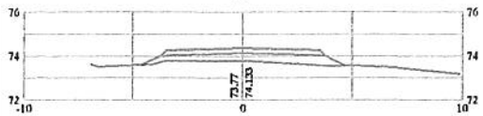

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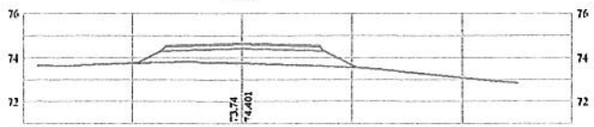

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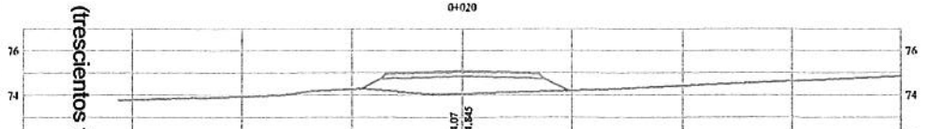

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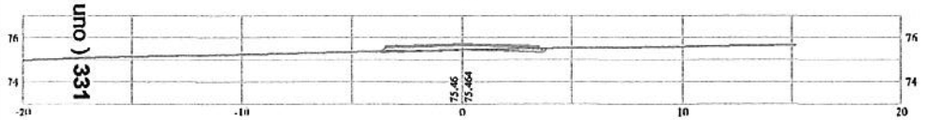

(trescientos treinta y uno) 331

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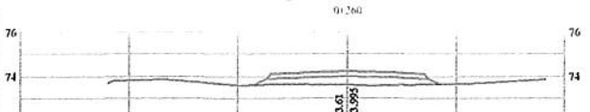

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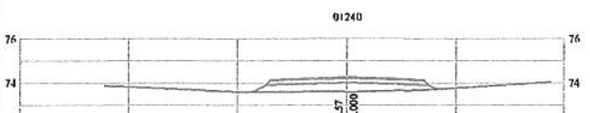

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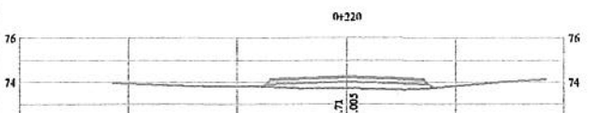

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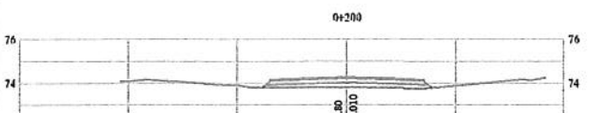

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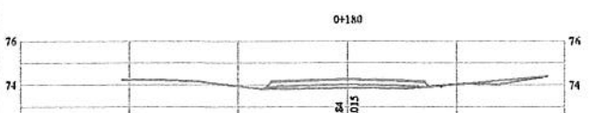

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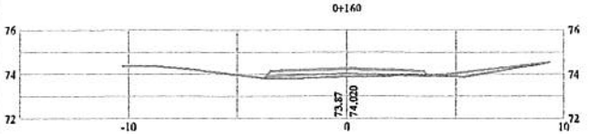

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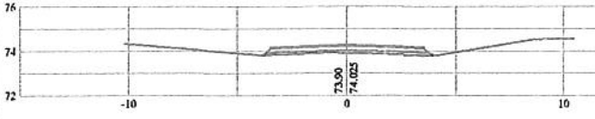

CONSTRUYE: CONSORCIO TOCSA - ECOMIPA

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REPUBLICA DEL PARAGUAY
VICE MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES
DIRECCION DE VIALIDAD
CONTRATO S.G. MINISTRO. N° 368 / 2017
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DISEÑO FINAL DE INGENIERIA
LICITACION PUBLICA INTERNACIONAL DE EMPRESAS CONSTRUCTORAS PARA LA REHABILITACION Y PAVIMENTACION DEL TRAMO DESVIO ALBERDI - PILAR
TRAMO: Río Tebicuary - Pilar (38,948 Km) + Acceso Ciudad de Pilar 4,335 Km

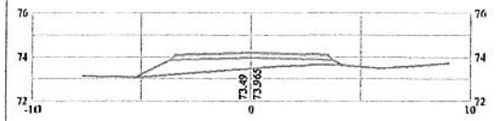
SECCION TRANSVERSAL
CALLE CERRO CORA

Escalas
H: 1/2000
V: 1/200

Lamina N°
ST - 01

M.O.P.C.

0+329.316



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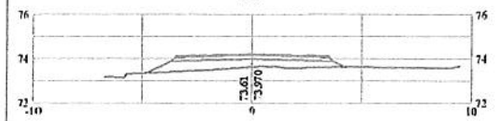

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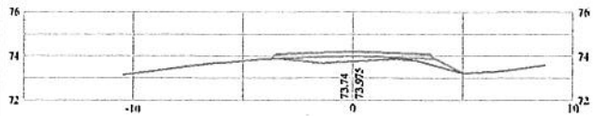

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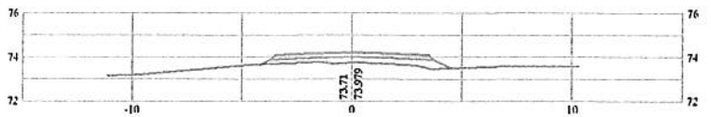

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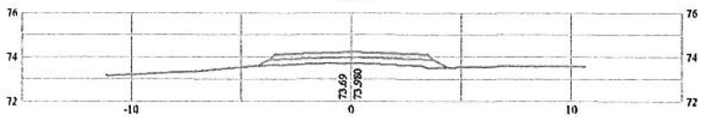

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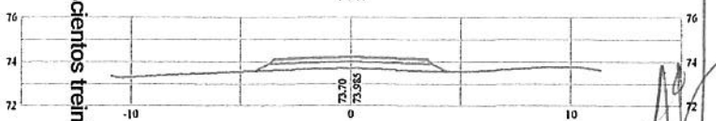

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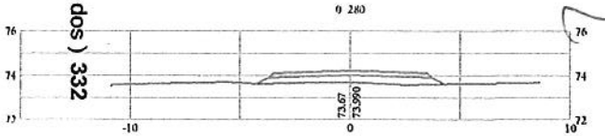

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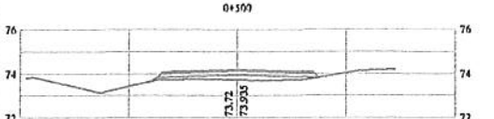

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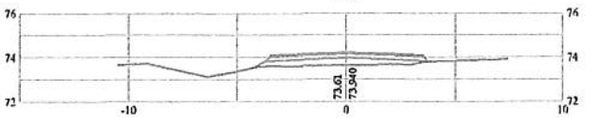

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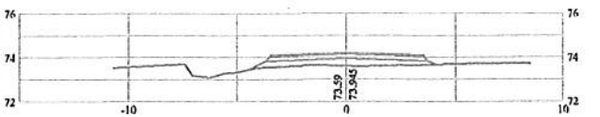

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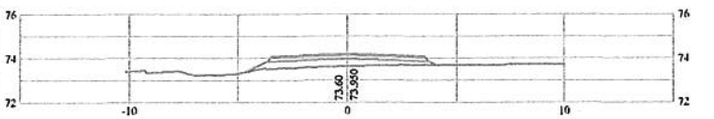

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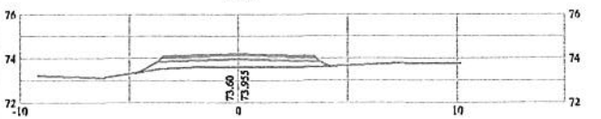

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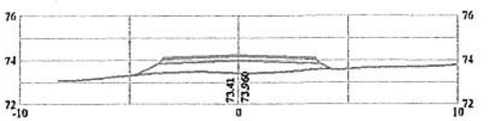

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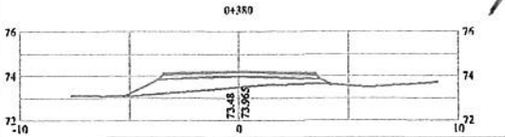

(trescientos treinta y dos) 332

CONSTRUYE: CONSORCIO TOCSA - ECOMIPA

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CONSULTORA GUARANI

REPUBLICA DEL PARAGUAY

VICE MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES

DIRECCIÓN DE VIALIDAD

CONTRATO S.G. MINISTRO Nº 388 / 2017

LLAMADO MOPC Nº 39 / 2016

DISEÑO FINAL DE INGENIERIA

LICITACION PUBLICA INTERNACIONAL DE EMPRESAS CONSTRUCTORAS PARA LA REHABILITACION Y PAVIMENTACION DEL TRAMO DESVIO ALBERDI - PILAR

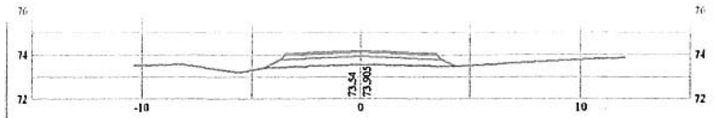
TRAMO: R/o Tebicuary - Pilar (38,948 Km) + Acceso Ciudad de Pilar 4,335 Km

SECCION TRANSVERSAL
CALLE CERRO CORA

Escalas
H: 1/2000
V: 1/200

Lamina N°
ST - 02

M.O.P.C.
GOBIERNO PARAGUAY



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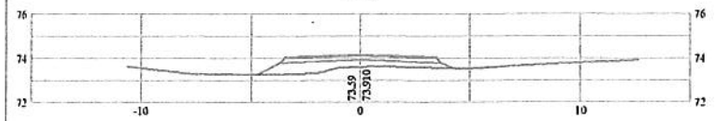

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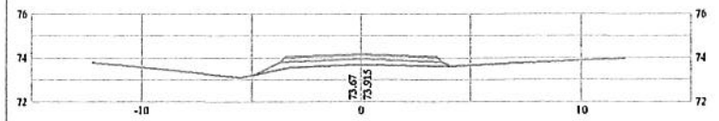

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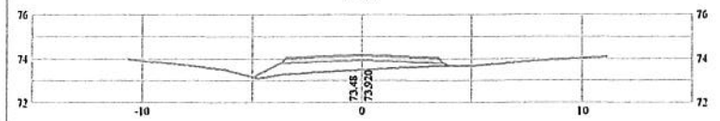

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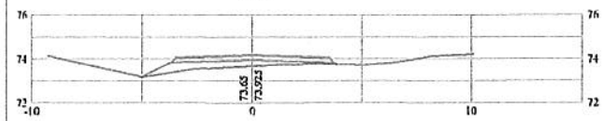

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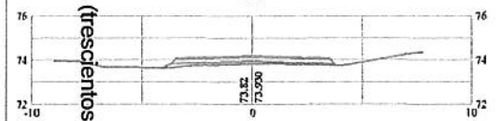

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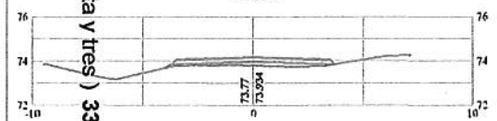

(trescientos treinta y tres) 333

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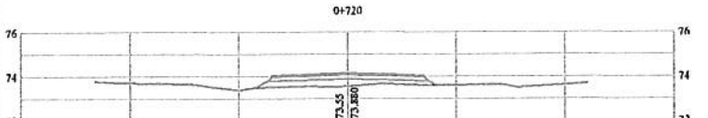

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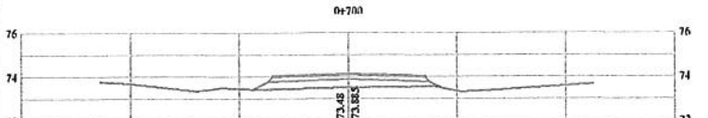

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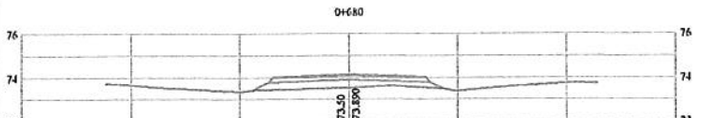

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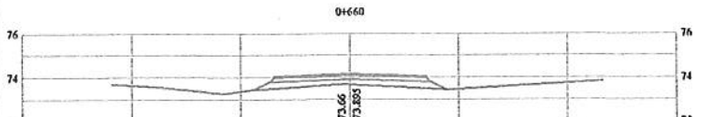

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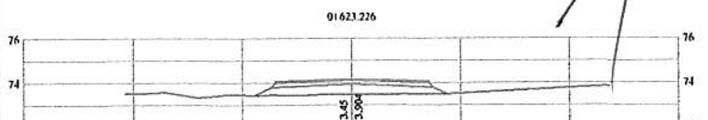

CONSTRUYE: CONSORCIO TOCSA - ECOMIPA

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VICE MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES
DIRECCION DE VIALIDAD
CONTRATO S.G. MINISTRO N° 368 / 2017
LLAMADO MOPC N° 39 / 2016

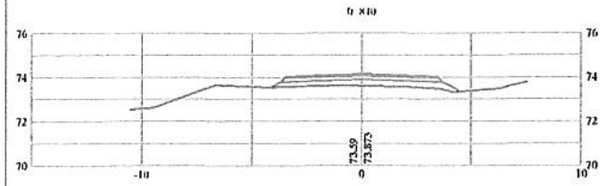
DISEÑO FINAL DE INGENIERIA
LICITACION PUBLICA INTERNACIONAL DE EMPRESAS CONSTRUCTORAS PARA LA REHABILITACION Y PAVIMENTACION DEL TRAMO DESVIO ALBERDI - PILAR
TRAMO: Río Tebicuary - Pilar (38,915 Km) + Acceso Ciudad de Pilar 4,335 Km

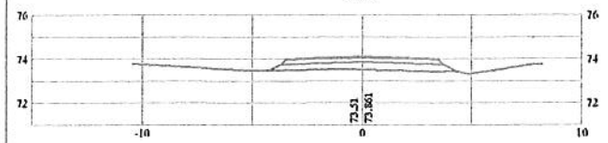
SECCION TRANSVERSAL
CALLE CERRO CORA

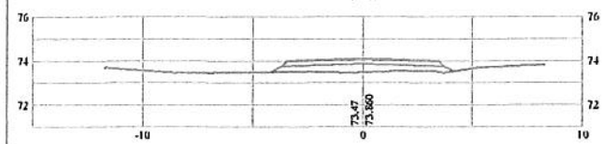
Escalas
H: 1/2000
V: 1/200

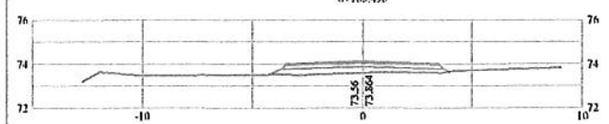
Lamina N°
ST - 03

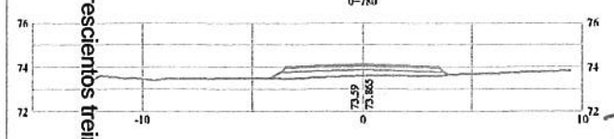
M.O.P.C.
MAPA DEL PARAGUAY

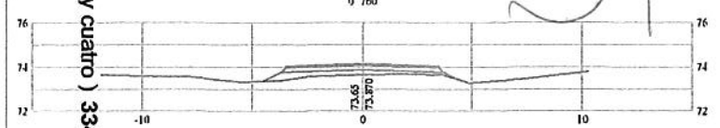




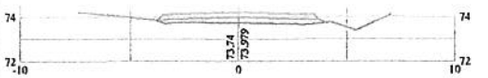


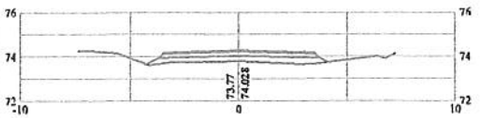


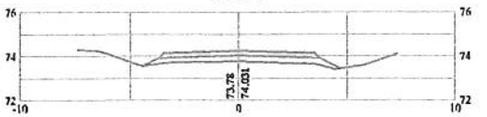


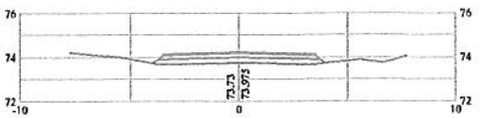


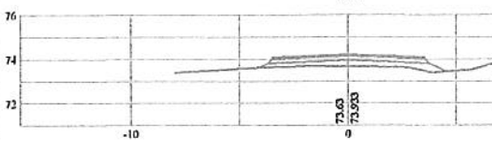
(trescientos treinta y cuatro) 334

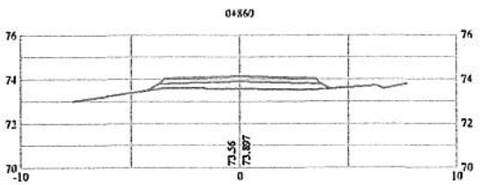












CONSTRUYE: CONSORCIO TOCSA - ECOMIPA

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DIRECCION DE VIALIDAD
CONTRATO S.G. MINISTRO. N° 388 / 2017
LLAMADO MOPC N° 39 / 2016

DISEÑO FINAL DE INGENIERIA
LICITACION PUBLICA INTERNACIONAL DE EMPRESAS CONSTRUCTORAS PARA LA REHABILITACION Y PAVIMENTACION DEL TRAMO DESVIO ALBERDI - PILAR
TRAMO: Río Tebicuary - Pilar (38,946 Km) + Acceso Ciudad de Pilar 4,335 Km

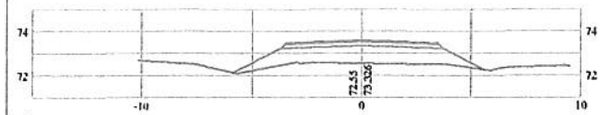
SECCION TRANSVERSAL
CALLE CERRO CORA

Escalas
H: 1/2000
V: 1/200

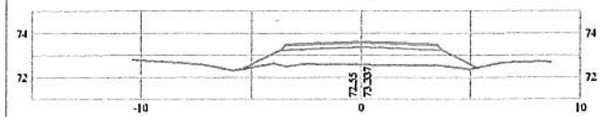
Lamina N°
ST - 04

M.O.P.C.
MAPA DEL PARAGUAY

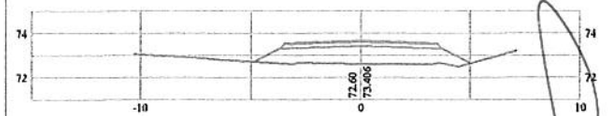
1+066.617



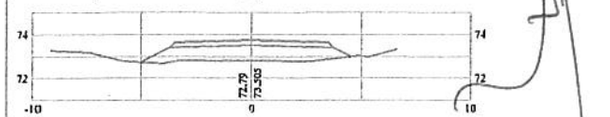
1 960



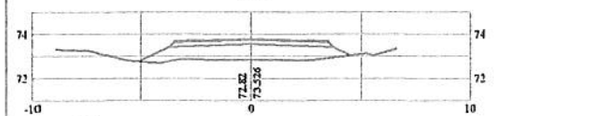
1+040



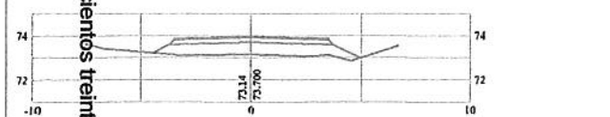
1+022.959



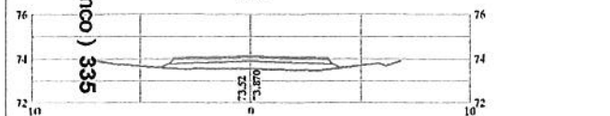
1+020



1+000

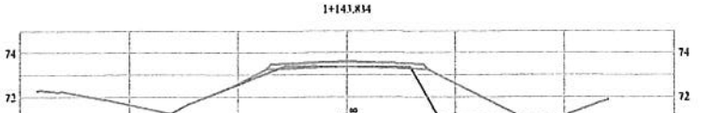


01980

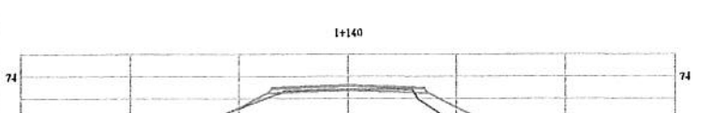


(trescientos treinta y cinco) 335

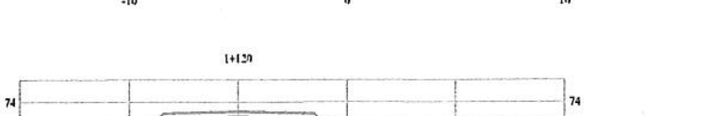
1+143.834



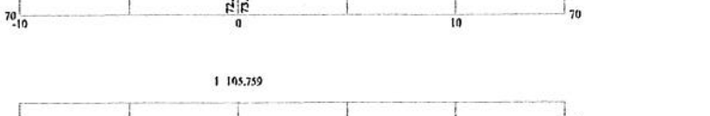
1+140



1+120

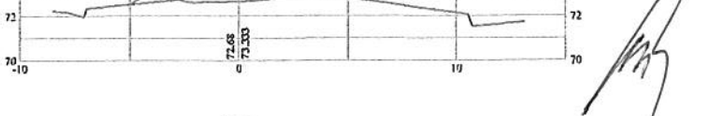


1 105.759



1+100

1+080



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DIRECCION DE VIALIDAD
CONTRATO S.G. MINISTRO. N° 368 / 2017
LLAMADO MOPC N° 39 / 2018

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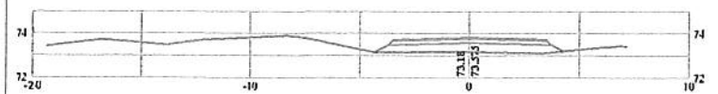
LICITACION PUBLICA INTERNACIONAL DE EMPRESAS CONSTRUCTORAS PARA LA REHABILITACION Y PAVIMENTACION DEL TRAMO DESVIO ALBERDI - PILAR
TRAMO: Río Tebicuary - Pilar (38,948 Km) + Acceso Ciudad de Pilar 4,335 Km

SECCION TRANSVERSAL
CALLE CERRO CORA

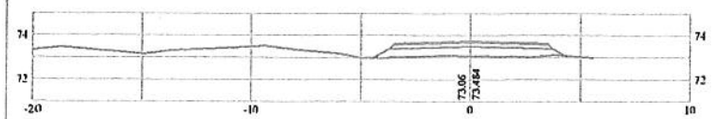
M.O.P.C.
MAPA DEL PARAGUAY

Escalas	Lamina N°
H: 1/2000 V: 1/200	ST - 05

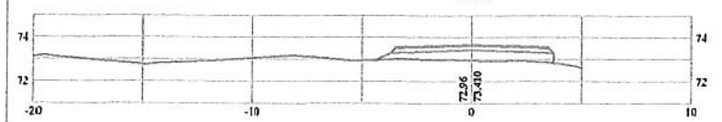
1+236.354



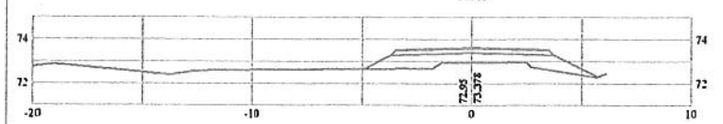
1+220



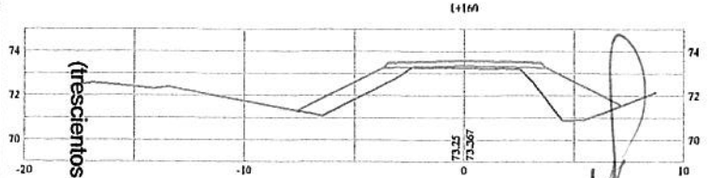
1+200



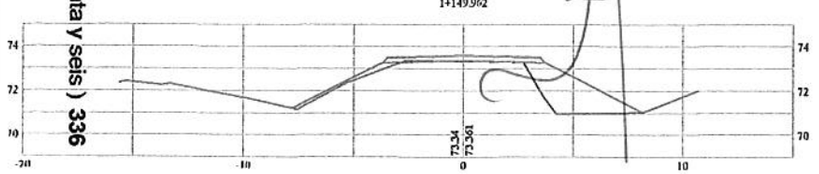
1+180



1+160

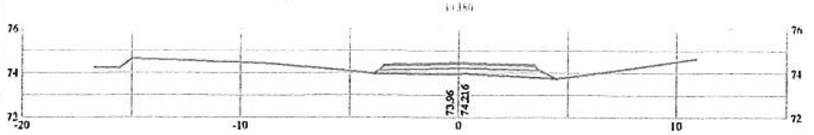


1+149.962



(trescientos treinta y seis) 336

1+380



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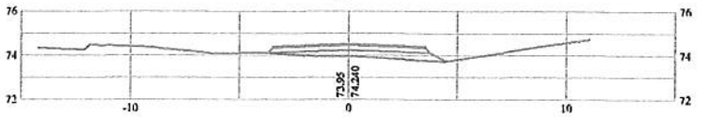

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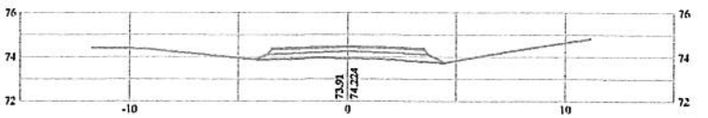

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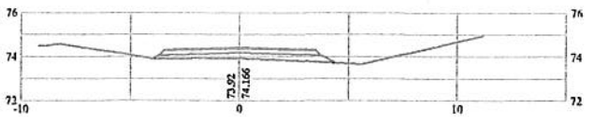

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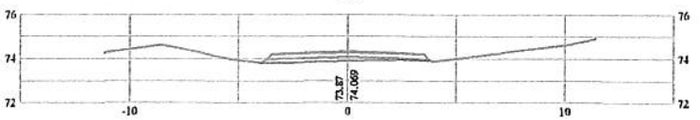

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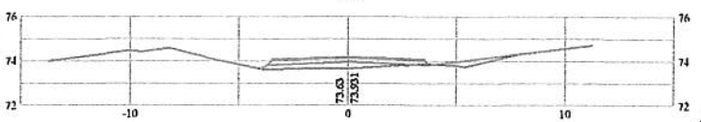
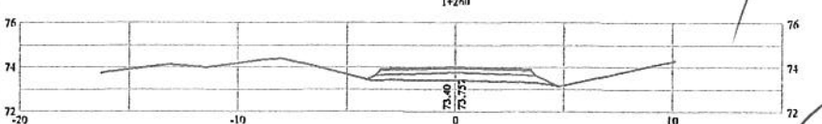


1+260



CONSTRUYE: CONSORCIO TOCSA - ECOMIPA

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CONSULTORA GUARANI

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VICE MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES
DIRECCION DE VIALIDAD
CONTRATO S.G. MINISTRO N° 388 / 2017
LLAMADO MOPC N° 39 / 2016

DISEÑO FINAL DE INGENIERIA
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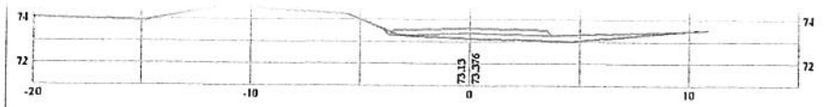
TRAMO: R/a Tebicuary - Pilar (38,918 Km) + Acceso Ciudad de Pilar 4,335 Km

SECCION TRANSVERSAL
CALLE CERRO CORA

Escalas
H: 1/2000
V: 1/200

Lamina N°
ST - 06

M.O.P.C.
MAPA DEL PARAGUAY



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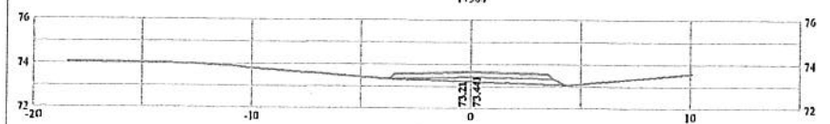

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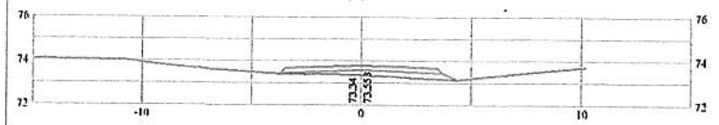

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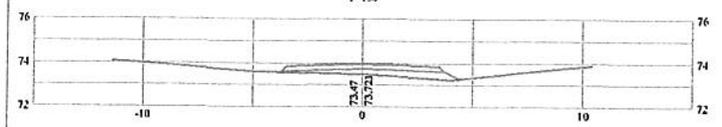

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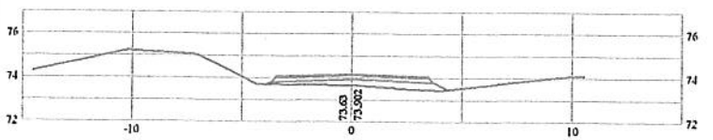

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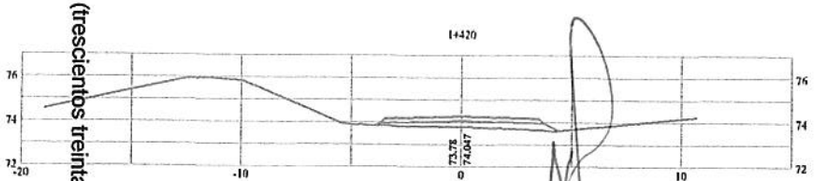
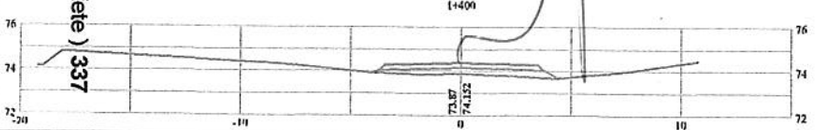


1+400



(trescientos treinta y siete) 337

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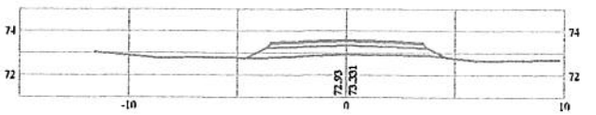
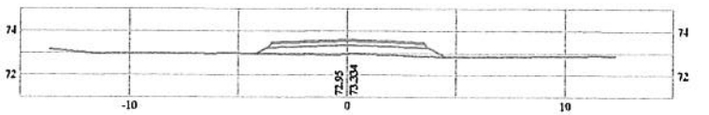


1+580.617



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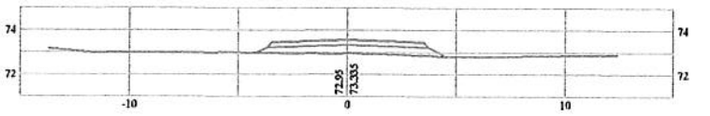

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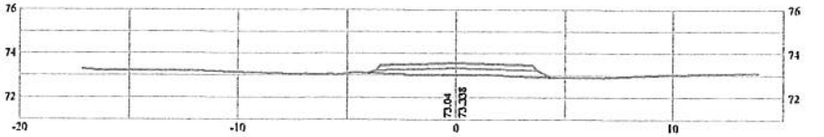

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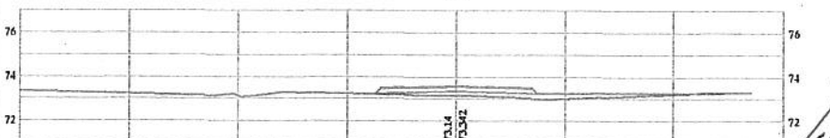

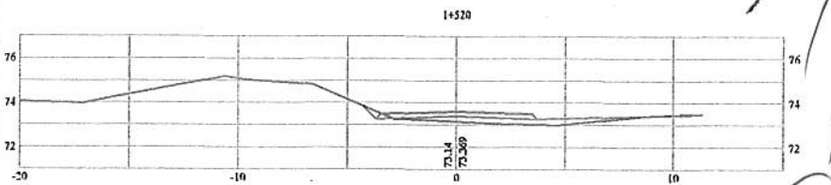

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CONSORCIO GUARANI

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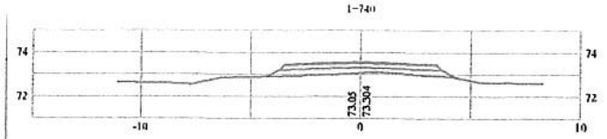
TRAMO: Río Tebicuary - Pilar (38,916 Km) + Acceso Ciudad de Pilar 4,335 Km

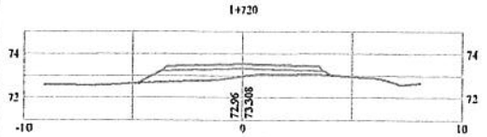
SECCION TRANSVERSAL
CALLE CERRO CORA

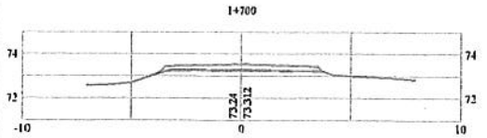
Escalas
H: 1/2000
V: 1/200

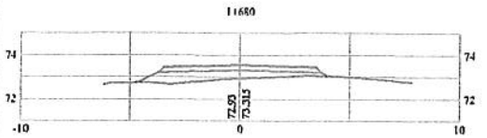
Lamina N°
ST - 07

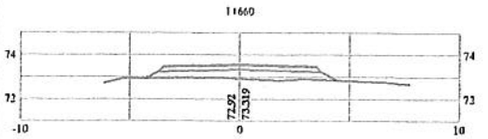
M.O.P.C.

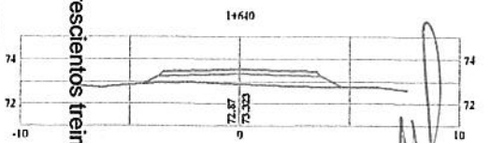


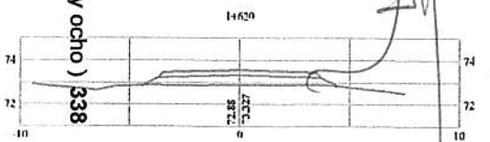




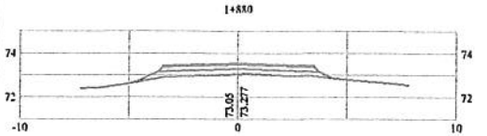


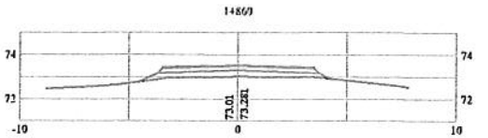


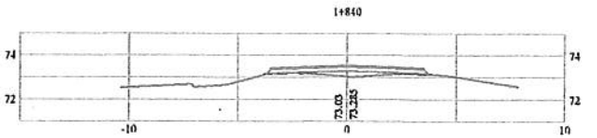


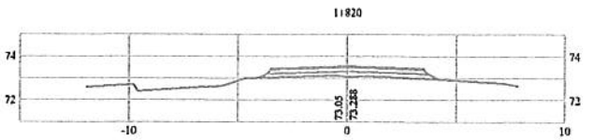


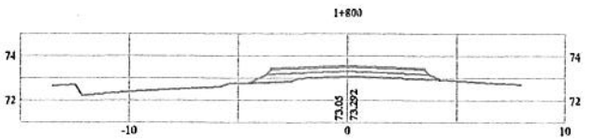
(trescientos treinta y ocho) 338

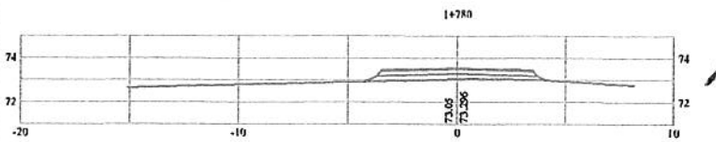


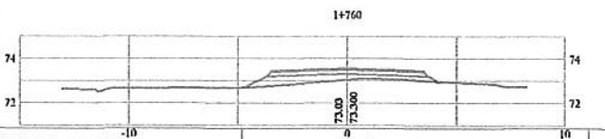












CONSTRUYE: CONSORCIO TOCSA - ECOMIPA

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FISCALIZA: CONSORCIO CG S.A. Y ASOCIADOS

CONSORCIO GUARANI

REPUBLICA DEL PARAGUAY

VICE MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES

DIRECCION DE VIALIDAD

CONTRATO S.G. MINISTRO N° 365 / 2017

LLAMADO MOPC N° 39 / 2016

DISEÑO FINAL DE INGENIERIA

LICITACION PUBLICA INTERNACIONAL DE EMPRESAS CONSTRUCTORAS PARA LA REHABILITACION Y PAVIMENTACION DEL TRAMO DESVIO ALBERDI - PILAR.

TRAMO: Río Tebicuary - Pilar (38,948 Km) + Acceso Ciudad de Pilar 4,335 Km

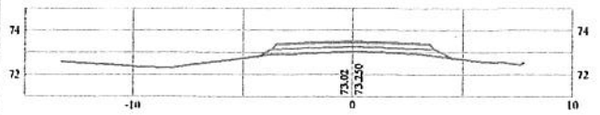
SECCION TRANSVERSAL
CALLE CERRO CORA

Escalas
H: 1/2000
V: 1/200

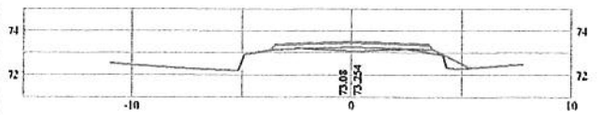
Lamina N°
ST - 08

M.O.P.C.
MAPA DEL PARAGUAY
ACEA PROJECT

2+020

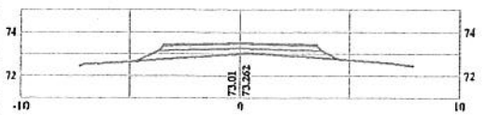


2+000



1+980

1+960



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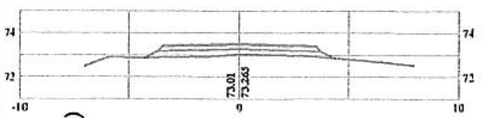
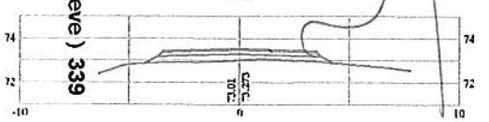


1+920

1+900



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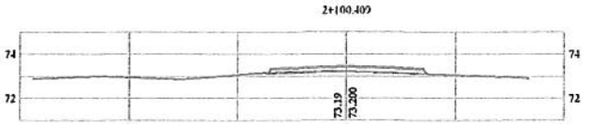

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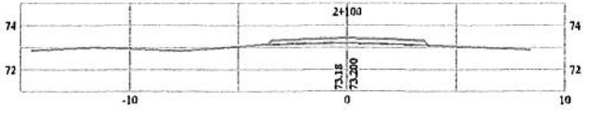

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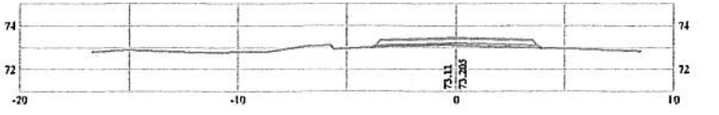
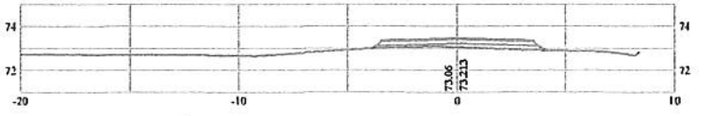
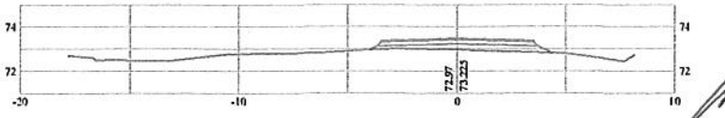


2+080



2+060



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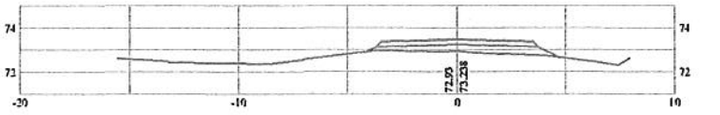

(trescientos treinta y nueve) 339

CONSTRUYE: CONSORCIO TOCSA - ECOMIPA

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DIRECCION DE VIALIDAD

CONTRATO S.G. MINISTRO N° 388 / 2017

LLAMADO MOPC N° 39 / 2016

DISEÑO FINAL DE INGENIERIA

LICITACION PUBLICA INTERNACIONAL DE EMPRESAS CONSTRUCTORAS PARA LA REHABILITACION Y PAVIMENTACION DEL TRAMO DESVIO ALBERDI - PILAR

TRAMO: Río Tebicuary - Pilar (38,948 Km) + Acceso Ciudad de Pilar 4,335 Km

SECCION TRANSVERSAL
CALLE CERRO CORA

Escalas
H: 1/2000
V: 1/200

Lamina N°
ST - 09

M.O.P.C.

MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES

STATION	AREAS Square Meters		VOLUMES Cubic Meters		CUMULATIVE VOLUMES Cubic Meters	
	CUT	FILL	CUT	FILL	CUT	FILL
0+000	0.37	0.00				
0+020	0.00	5.67	3.65	56.71	3.65	56.71
0+040	0.00	5.33	0.00	110.00	3.65	166.70
0+060	0.00	3.04	0.00	83.68	3.65	250.38
0+080	0.00	2.06	0.00	51.00	3.65	301.38
0+100	0.00	2.30	0.00	43.65	3.65	345.03
0+120	0.00	1.31	0.00	36.15	3.65	381.18
0+140	0.00	0.84	0.00	21.48	3.65	402.66
0+160	0.05	1.31	0.49	21.48	4.15	424.14
0+180	0.01	1.33	0.62	26.43	4.77	450.57
0+200	0.00	1.23	0.13	25.61	4.90	476.18
0+220	0.00	1.80	0.00	30.32	4.90	506.49
0+240	0.00	2.67	0.00	44.72	4.90	551.21
0+260	0.00	2.62	0.00	52.91	4.90	604.12
0+280	0.00	2.37	0.00	49.90	4.90	654.02
0+300	0.00	2.36	0.00	47.28	4.90	701.31
0+320	0.00	2.24	0.00	45.95	4.90	747.25
0+323.539	0.00	2.06	0.00	7.61	4.90	754.87
0+340	0.00	1.36	0.00	28.37	4.90	783.23
0+360	0.00	3.04	0.00	44.10	4.90	827.33
0+379.316	0.00	3.89	0.00	66.46	4.90	893.79
0+380	0.00	3.93	0.00	2.67	4.90	896.46
0+400	0.00	3.65	0.00	75.80	4.90	972.26
0+420	0.00	2.52	0.00	61.70	4.90	1033.96
0+440	0.00	2.34	0.00	48.61	4.90	1082.57
0+460	0.00	2.21	0.00	45.55	4.90	1128.12
0+480	0.00	2.00	0.00	42.12	4.90	1170.25
0+500	0.00	1.15	0.00	31.48	4.90	1201.72
0+504.793	0.00	0.90	0.00	4.90	4.90	1206.62
0+520	0.00	0.71	0.00	12.20	4.90	1218.82
0+540	0.00	2.13	0.00	28.50	4.90	1247.32
0+560	0.00	3.24	0.00	53.99	4.90	1301.32
0+580	0.00	1.96	0.00	52.14	4.90	1353.46
0+600	0.00	2.98	0.00	49.50	4.90	1402.96
0+620	0.00	2.79	0.00	57.87	4.90	1460.83
0+623.226	0.00	3.16	0.00	9.61	4.90	1470.44
0+640	0.00	3.00	0.00	51.68	4.90	1522.12
0+660	0.00	2.24	0.00	52.36	4.90	1574.47
0+680	0.00	2.60	0.00	48.33	4.90	1622.81
0+700	0.00	2.77	0.00	53.69	4.90	1676.50
0+720	0.00	2.04	0.00	48.15	4.90	1724.65
0+740	0.00	1.47	0.00	35.17	4.90	1759.82
0+760	0.00	1.77	0.00	32.41	4.90	1792.23
0+780	0.00	1.86	0.00	36.25	4.90	1828.49
0+785.456	0.00	2.03	0.00	10.61	4.90	1839.09
0+800	0.00	2.40	0.00	32.22	4.90	1871.31
0+820	0.00	2.50	0.00	49.05	4.90	1920.36
0+840	0.00	2.11	0.00	46.20	4.90	1966.56
0+860	0.00	2.67	0.00	47.82	4.90	2014.38
0+880	0.00	2.13	0.00	47.94	4.90	2062.32
0+900	0.00	1.72	0.00	38.53	4.90	2100.85
0+920	0.00	2.50	0.00	42.29	4.90	2143.14
0+931.185	0.00	2.16	0.00	26.04	4.90	2169.18
0+940	0.00	2.03	0.00	18.42	4.90	2187.60
0+960	0.00	1.62	0.00	36.56	4.90	2224.16
0+980	0.00	2.43	0.00	40.51	4.90	2264.67
1+000	0.00	4.57	0.00	69.95	4.90	2334.61
1+020	0.00	5.51	0.00	100.74	4.90	2435.35
1+022.959	0.00	5.57	0.00	16.39	4.90	2451.74
1+040	0.00	6.41	0.00	102.08	4.90	2553.82
			0.00	130.53	4.90	2684.35

STATION	AREAS Square Meters		VOLUMES Cubic Meters		CUMULATIVE VOLUMES Cubic Meters	
	CUT	FILL	CUT	FILL	CUT	FILL
1+060	0.00	6.63	0.00	46.06	4.90	2730.41
1+066.817	0.00	6.88	0.00	78.39	4.90	2808.81
1+080	0.00	5.01	0.00	96.51	4.90	2905.32
1+100	0.00	4.64	0.00	27.93	4.90	2933.25
1+105.759	0.00	5.06	0.00	62.49	4.90	2995.74
1+120	0.00	3.67	4.23	67.95	9.13	3063.70
1+140	0.42	3.24	1.47	15.83	10.60	3079.53
1+143.834	0.34	5.36	1.28	36.59	11.89	3116.12
1+149.962	0.08	6.59	0.38	77.80	12.27	3193.92
1+160	0.00	8.77	0.00	136.49	12.27	3330.41
1+180	0.00	4.85	0.00	79.35	12.27	3409.76
1+200	0.00	3.08	0.00	61.35	12.27	3471.11
1+220	0.00	3.05	0.00	49.06	12.27	3520.17
1+236.354	0.00	2.95	0.00	10.71	12.27	3530.88
1+240	0.00	2.92	0.00	55.61	12.27	3586.49
1+260	0.00	2.64	0.10	46.82	12.37	3633.31
1+280	0.01	2.05	0.10	31.56	12.47	3664.87
1+300	0.00	1.11	0.00	30.12	12.47	3694.99
1+320	0.00	1.90	0.00	42.75	12.47	3737.74
1+340	0.00	2.37	0.00	44.40	12.47	3782.14
1+360	0.00	2.07	0.00	40.75	12.47	3822.89
1+380	0.00	2.01	0.00	41.25	12.47	3864.14
1+400	0.00	2.12	0.00	39.51	12.47	3903.65
1+420	0.00	1.84	0.00	38.23	12.47	3941.88
1+440	0.00	1.99	0.00	38.14	12.47	3980.02
1+460	0.00	1.83	0.00	32.59	12.47	4012.61
1+480	0.00	1.43	0.00	28.36	12.47	4040.97
1+500	0.00	1.40	0.55	31.77	13.02	4072.74
1+517.161	0.06	2.30	0.40	6.29	13.43	4079.03
1+520	0.22	2.18	17.65	44.19	31.08	4123.23
1+540	1.52	2.32	21.86	55.89	52.93	4179.12
1+560	0.63	3.38	6.32	61.49	59.25	4240.61
1+580	0.00	2.83	0.00	1.75	59.25	4242.36
1+580.617	0.00	2.66	0.00	59.87	59.25	4302.23
1+600	0.00	3.32	0.00	64.88	59.25	4367.11
1+620	0.00	3.17	0.00	65.19	59.25	4432.31
1+640	0.00	3.35	0.00	62.11	59.25	4494.41
1+660	0.00	2.86	0.00	57.58	59.25	4552.00
1+680	0.00	2.90	0.39	31.02	59.65	4583.01
1+700	0.04	0.20	0.39	29.85	60.04	4612.87
1+720	0.00	2.78	0.00	48.45	60.04	4661.31
1+740	0.00	2.06	0.00	44.33	60.04	4705.64
1+760	0.00	2.37	0.00	41.46	60.04	4747.10
1+780	0.00	1.77	0.00	39.16	60.04	4786.26
1+800	0.00	2.14	0.00	35.78	60.04	4822.04
1+820	0.00	1.44	0.00	22.50	60.04	4844.54
1+840	0.00	0.81	0.00	28.12	60.04	4872.66
1+860	0.00	2.00	0.00	40.59	60.04	4913.25
1+880	0.00	2.06	0.00	40.44	60.04	4953.69
1+900	0.00	1.98	0.00	39.27	60.04	4992.97
1+920	0.00	1.94	0.00	40.48	60.04	5033.44
1+940	0.00	2.10	0.00	47.56	60.04	5081.01
1+960	0.00	2.65	0.00	36.21	60.04	5117.22
1+980	0.00	0.97	0.02	19.33	60.06	5136.55
2+000	0.00	0.96	0.02	29.39	60.08	5165.95
2+020	0.00	1.97	0.00	44.81	60.08	5210.76
2+040	0.00	2.51	0.00	42.94	60.08	5253.70
2+060	0.00	1.79	0.00	29.08	60.08	5282.78
2+080	0.00	1.12	0.00	11.19	60.08	5293.97
2+091.882	0.00	0.76	0.43	3.35	60.52	5297.31
2+100	0.11	0.07	0.05	0.02	60.57	5297.34
2+100.409	0.14	0.04	0.00	0.00	60.57	5297.34

(trescientos cuarenta) 340

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REPUBLICA DEL PARAGUAY
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VOLUMEN
CALLE CERRO CORA

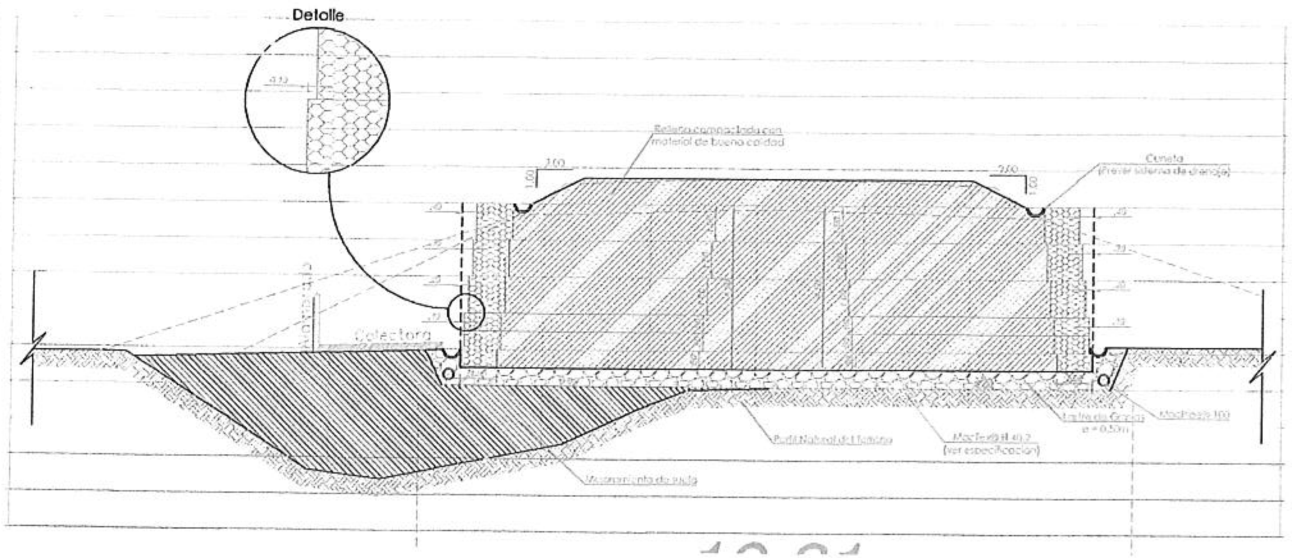
Escalas
H: 1/2000
V: 1/200

Lamina N°
VO - 01

M.O.P.C.
MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES

TERRAMESH MONTUOSO

Ext: 258,00m
Escala: 1:100



2. Los suelos utilizados en el cuerpo del terraplén deberán estar exentos de materia orgánica y otras impurezas, y deberán presentar expansibilidad inferior a 20% (ensayo CBR);

3. El terraplén deberá ser compactado en capas con espesor máximo acabado de 25 cm, hasta alcanzar el grado de compactación mínimo del 98% con relación a la energía normal de compactación. Junto a la faz, y con distancia mínima de 1,0 m, la compactación debe ser procesada a través del uso de placas vibratorias o sapos mecánicos, para evitar daño por la proximidad del rodillo compactador;

4. La ejecución de la faz, colocación de los Gaviones y la ejecución del terraplén deben ser simultáneas o sea, el levantamiento del muro debe ser efectuado concomitantemente con la ejecución del terraplén;

5. Para ejecución de la estructura aquí presentada, deberán ser realizados ensayos de campo y laboratorio a fin de verificar y confirmar las características de los suelos y el nivel freático;

6. La topografía del terreno natural y las cuotas de proyecto deberán ser confirmados para localización de la estructura propuesta;

7. Las excavaciones próximas a la estructura propuesta no deberán comprometer la integridad de la misma;

8. Este estudio tiene como finalidad presentar la geometría y el costo, por eso todos los datos hidráulicos, geotécnicos y geométrico deberán ser confirmados y verificados;

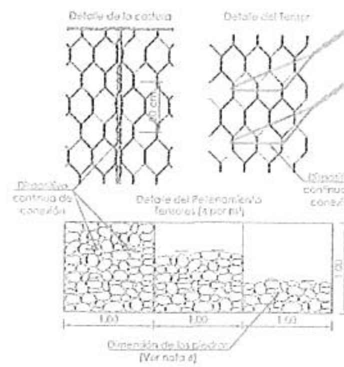
9. Se debe proporcionar la vegetación de los taludes expuestos para protegerlos contra las erosiones superficiales;

Especificación - Terramesh® System 80 PoliMac™

Planta de Localización
Ext: 258,00m

LEYENDA:
- Relleno compactado con material de buena calidad
- Suelo natural
- Gaviones
- Mejoramiento de suelo
- Piedras

Detalle 1: Amarre de la malla
Sin escala



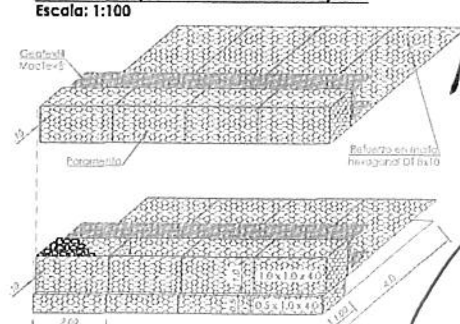
Especificación - MacTex® H 40.2

Especificación - MacPipe® 100

Cantidades		
Descripción de los Materiales	Cantidad	Unid.
Terramesh® System 80 PoliMac™ (0.5 x 1.0 x 4.0)	73.00	pzs
Terramesh® System 80 PoliMac™ (1.0 x 1.0 x 4.0)	173.00	pzs
Gavión PoliMac™ Tipo Caja 80 h=0.50 m	24.00	m³
Gavión PoliMac™ Tipo Caja 80 h=1.0 m	40.00	m³
Colchón Reno PoliMac™ espesor= 23 cm.	163	m²
Dispositivo de conexión Polimac™	2085	kg
Geotextil MacTex® H 40.2	14260	m²
Tubo Perforado MacPipe® 100	600.00	m
Mac Drain 2L 20.2	1020	m²

Contrafuertes de Cierre
Escala: 1:100

Detalle 2: Perspectiva del Terramesh® System
Escala: 1:100



(trescientos cuarenta y dos) 342

Especificación - Gavión PoliMac™ Tipo Caja 80

MACCAFERRI
AMERICA LATINA

Maccaferri do Brasil Ltda.

Propuesta Técnica Económica

La presente Propuesta Técnica Económica tiene carácter exclusivamente indicativa, con objetivo de demostrar la mejor forma de utilización y las características de los productos fabricados y comercializados por el Grupo MACCAFERRI, no cabiendo a MACCAFERRI cualquier responsabilidad técnica. La presente Propuesta Técnica Económica no exime al solicitante de la elaboración o contratación del Proyecto a través de un profesional especializado y debidamente habilitado.

Título
Suelo Reforzado | Terramesh® Systen

Solicitante
Tocsa
Ing. CARLOS VERA

Local
PILAR - PARAGUAY

Número
DR-12725-R1

Tipo
MAC 2

Hoja
01/01

10/04/2019	Beatriz Souza	Ing. Rafael S.	Estudio Inicial
17/04/2019	Beatriz Souza	Ing. Rafael S.	Implantación del muro en los dos lados
Fecha	Diseñador	Verificación	Descripción