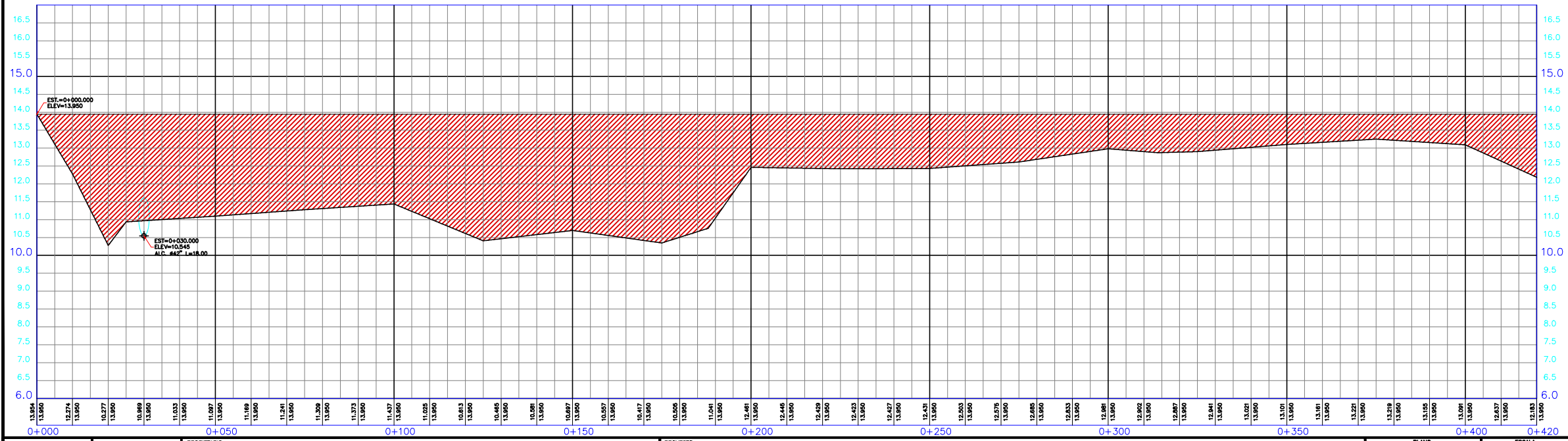
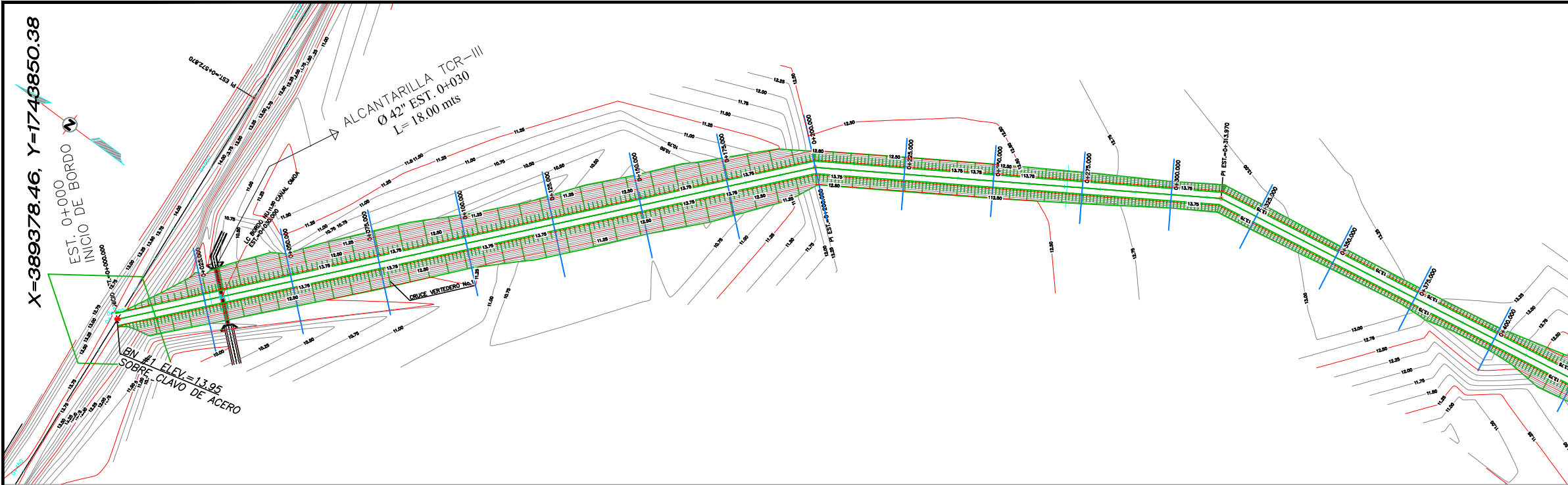


PLANTA DE UBICACION BORDO MARGEN DERECHO RIO OMOA (0+000 A 1+050)



J.A.R.M.	ING. CANDIDO O. RIVERA C.I.C.M. 921	PROPIETARIO:	PROYECTO:	PLANO:	ESCALA:
DIBUJO:	ING. RONALD AGUILERA	 MUNICIPALIDAD DE OMOA	DISEÑO BORDO MARGEN DERECHO RIO OMOA, MUNICIPIO DE OMOA, DEPTO. CORTES	PP-01	H=1:500 V=1:50
LEVANTO:	UNIDAD TÉCNICA MUNICIPAL		CONTENIDO:	PLANTA DE UBICACION BORDO MARGEN DERECHO RIO OMOA (0+000 A 1+050)	FECHA:



J.A.R.M.
 DIBUJO:
 LEVANTO:

ING. CANDIDO O. RIVERA
 C.I.C.H. 921
 DISEÑO Y CALCULO:
 ING. RONALD AGUILERA
 UNIDAD TECNICA MUNICIPAL
 REVISO:

PROPIETARIO:

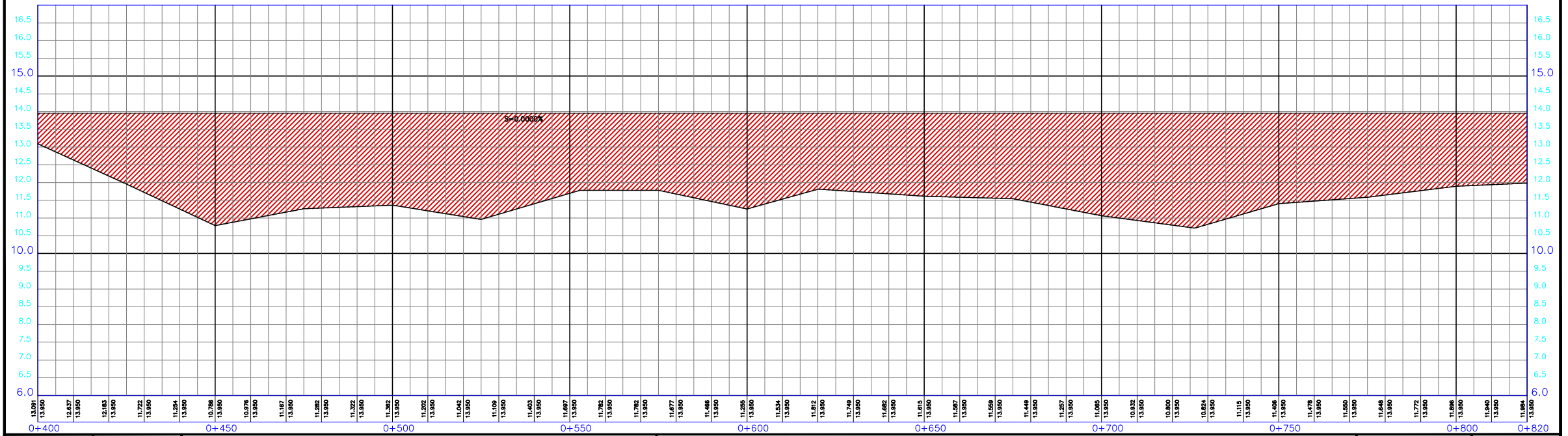
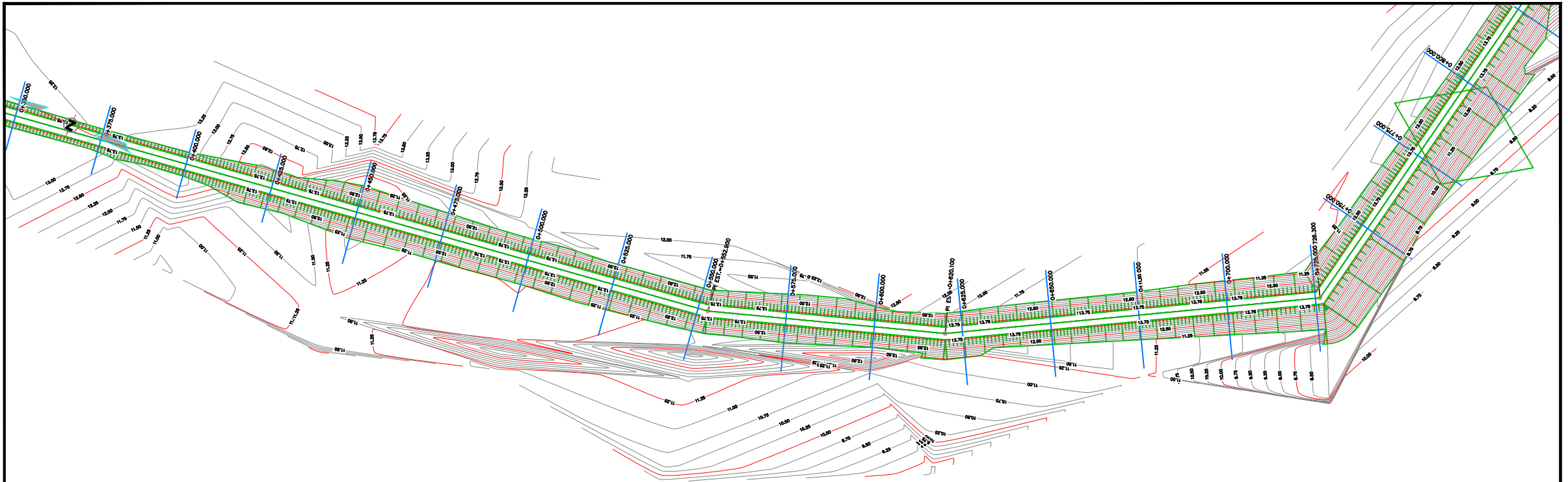


MUNICIPALIDAD DE OMOA

PROYECTO: **DISEÑO BORDO MARGEN DERECHO RIO OMOA, MUNICIPIO DE OMOA, DEPTO. CORTES**
 CONTENIDO: **PLANTA Y PERFIL BORDO MARGEN DERECHO RIO OMOA (0+000.000 A 0+400)**

PLANO: **PP-02**

ESCALA:
 H=1:500
 V=1:50
 FECHA:
 JUNIO DE 2017



J.A.R.M.	ING. CANDIDO O. RIVERA C.I.C.H. 921
DIBUJO:	DISEÑO Y CALCULO:
LEVANTO:	ING. RONALD AGUILERA UNIDAD TECNICA MUNICIPAL
	REVISO:

PROPIETARIO:

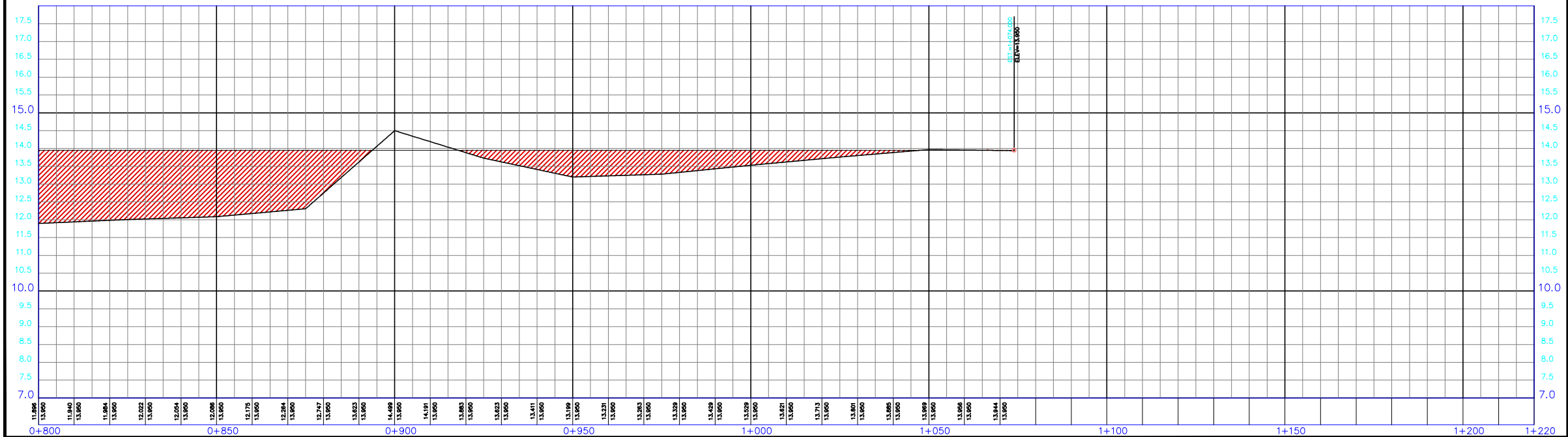
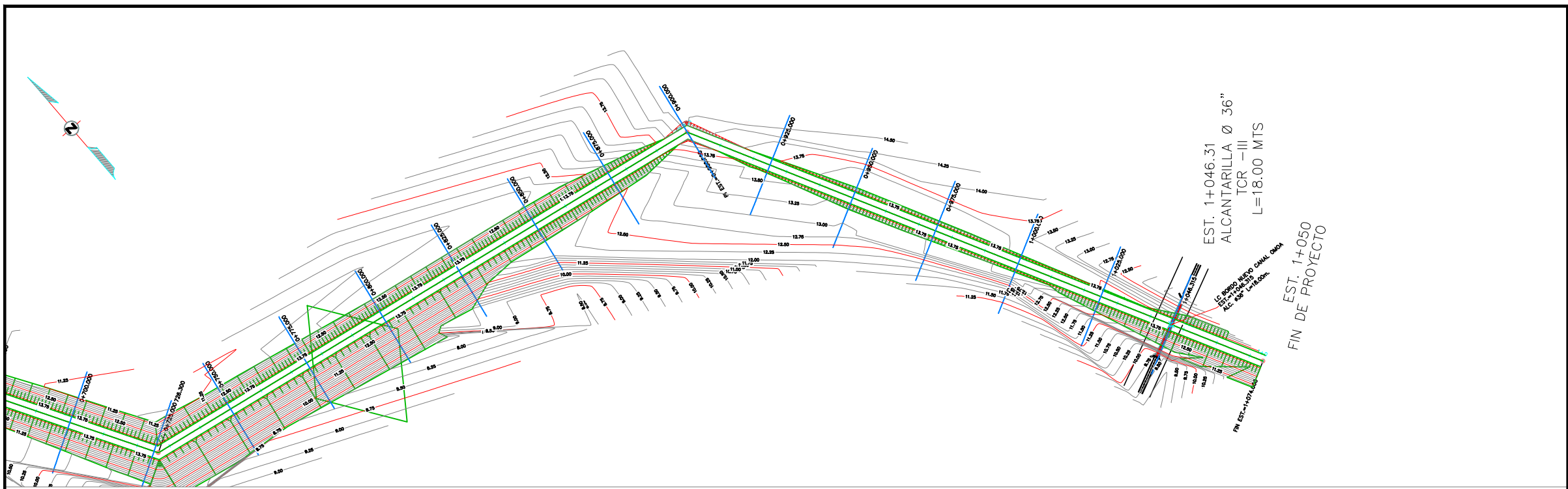


MUNICIPALIDAD DE OMOA

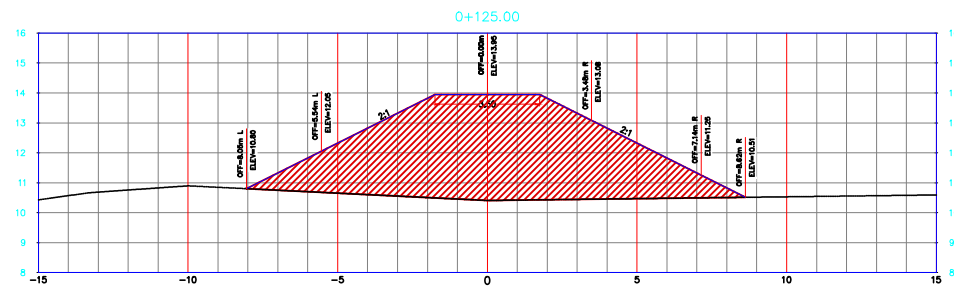
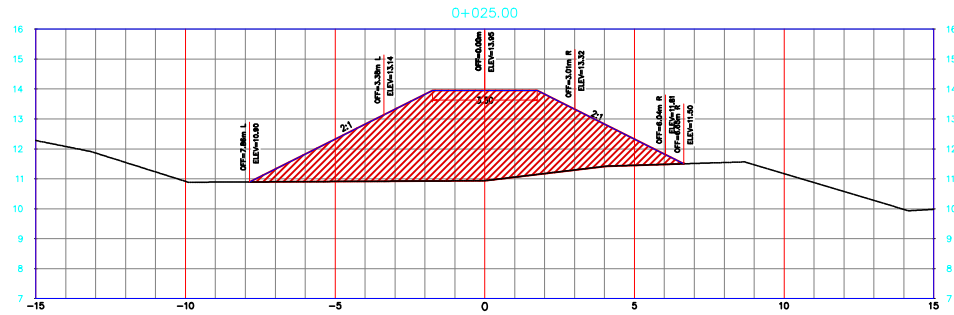
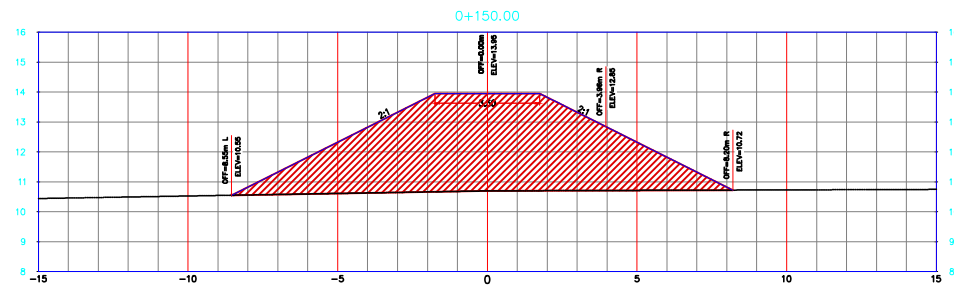
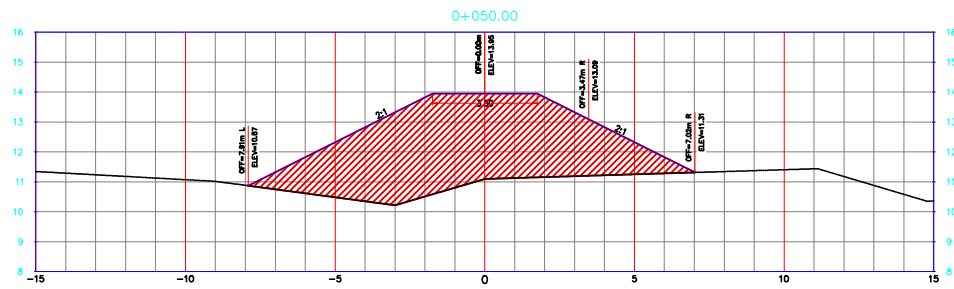
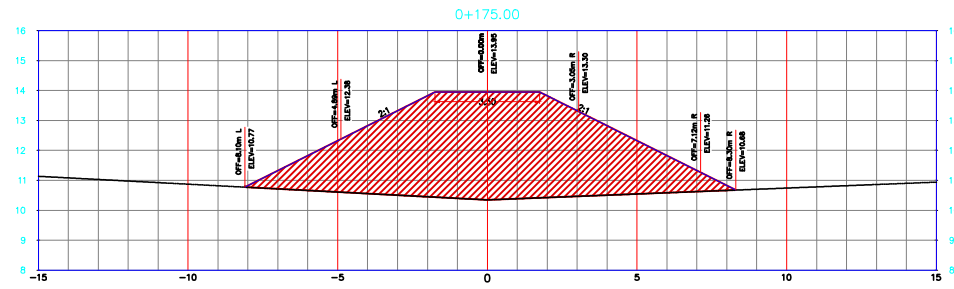
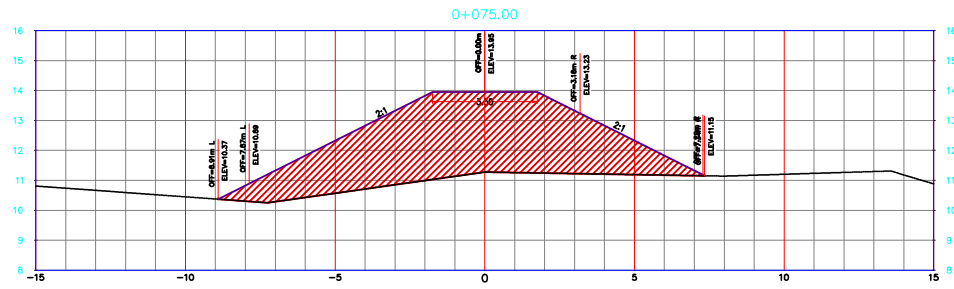
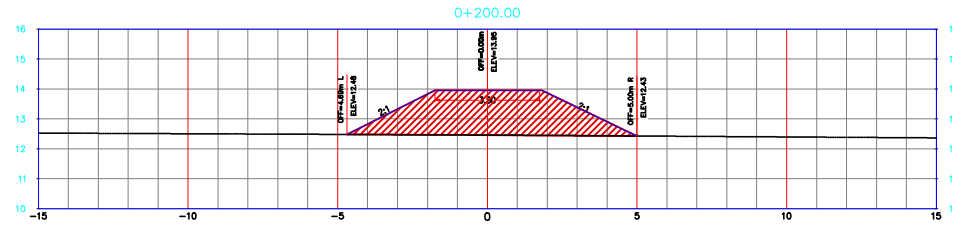
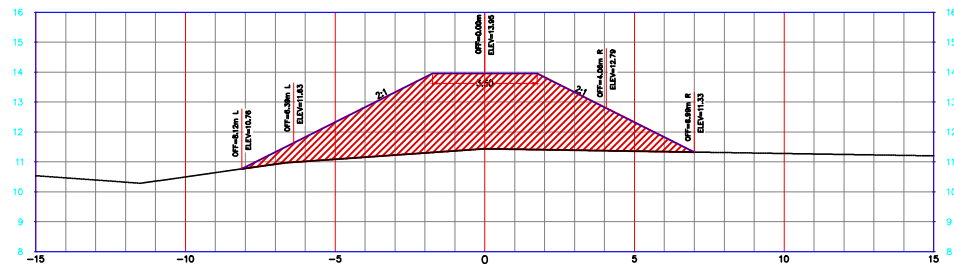
PROYECTO: **DISEÑO BORDO MARGEN DERECHO RIO OMOA, MUNICIPIO DE OMOA, DEPTO. CORTES**

CONTENIDO: **PLANTA Y PERFIL BORDO MARGEN DERECHO RIO OMOA (0+400.000 A 0+800.000)**

PLANO:	ESCALA:
PP-03	H=1:500 V=1:50
	FECHA:
	JUNIO DE 2017



J.A.R.M. DIBUJO: LEVANTO:		ING. CANDIDO O. RIVERA C.I.C.H. 921 DISEÑO Y CALCULO: ING. RONALD AGUILERA UNIDAD TECNICA MUNICIPAL REVISO:		PROPIETARIO:  MUNICIPALIDAD DE OMOA DEPARTAMENTO DE CORTES		PROYECTO: DISEÑO BORDO MARGEN DERECHO RIO OMOA, MUNICIPIO DE OMOA, DEPTO. CORTES		PLANO: PP-04		ESCALA: H=1:500 V=1:50 FECHA: JUNIO DE 2017	
CONTENIDO: PLANTA Y PERFIL BORDO MARGEN DERECHO RIO OMOA (0+800.000 A 1+074.000)											



J.A.R.M.	ING. CANDIDO O. RIVERA C.I.C.H. 921
DIBUJO:	DISEÑO Y CALCULO:
-	ING. RONALD AGUILERA
LEVANTO:	UNIDAD TECNICA MUNICIPAL REVISO:

PROPIETARIO:

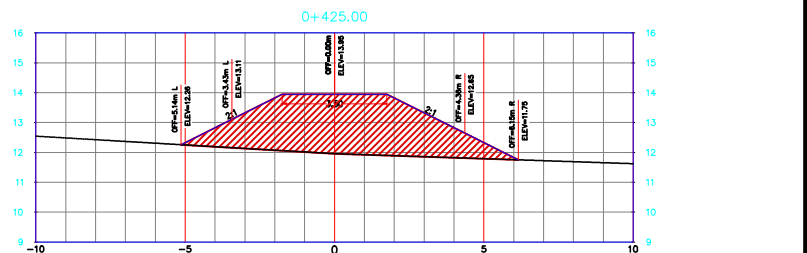
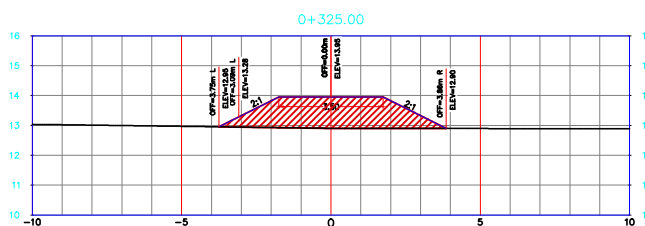
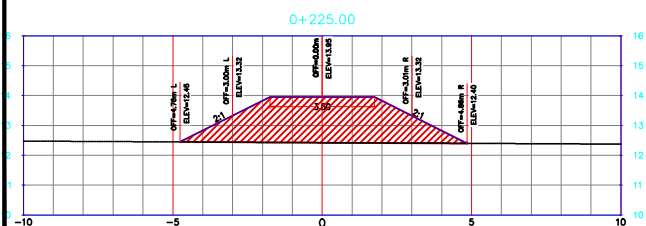
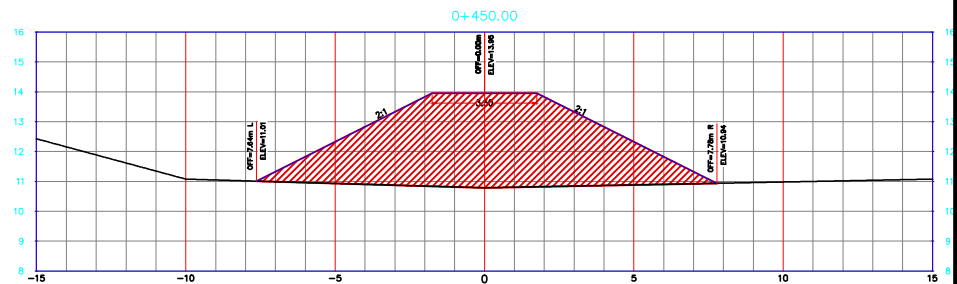
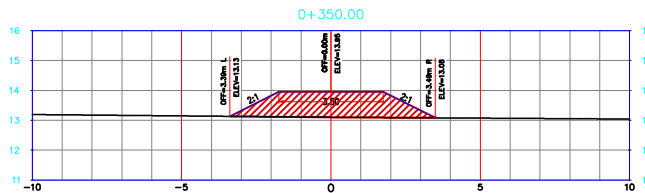
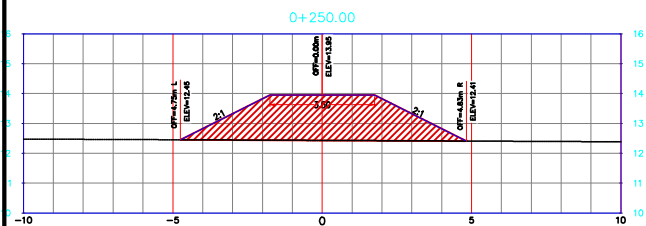
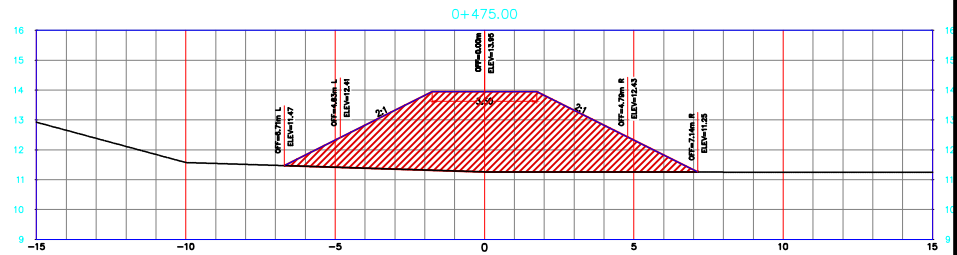
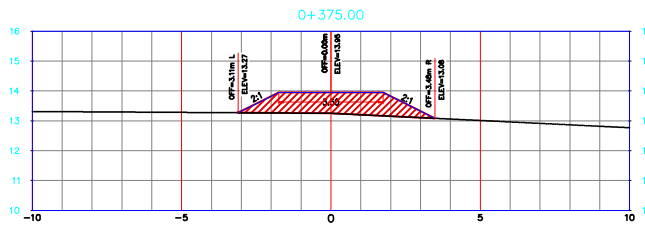
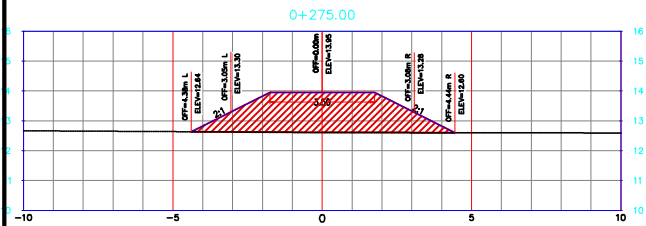
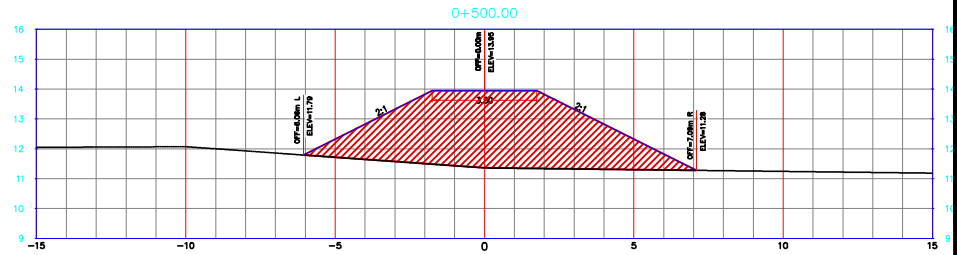
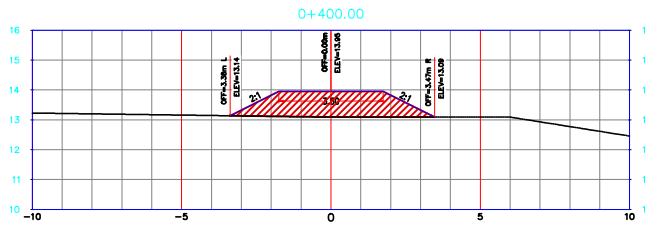
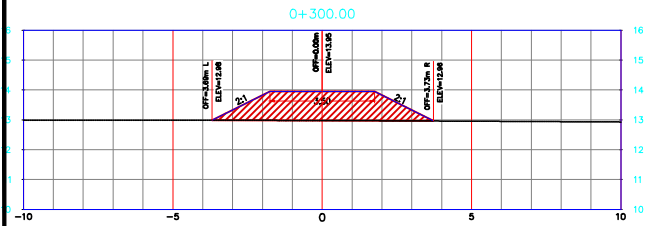
MUNICIPALIDAD DE OMOA

PROYECTO: **DISEÑO BORDO MARGEN DERECHO RIO OMOA, MUNICIPIO DE OMOA, DEPTO. CORTES**

CONTENIDO: **SECCIONES TRANSVERSALES BORDO MARGEN DERECHO RIO OMOA (0+000 A 0+200)**

PLANO: **ST-05**

ESCALA:
H=1:100
V=1:100
FECHA:
JUNIO DE 2017



J.A.R.M.	ING. CANDIDO O. RIVERA C.I.C.H. 92
DIBUJO:	DISEÑO Y CALCULO:
-	ING. RONALD AGUILERA UNIDAD TECNICA MUNICIPAL
LEVANTO:	REVISO:

PROPIETARIO:



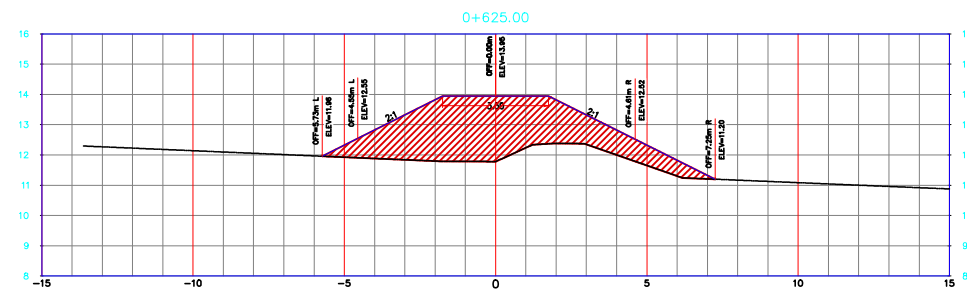
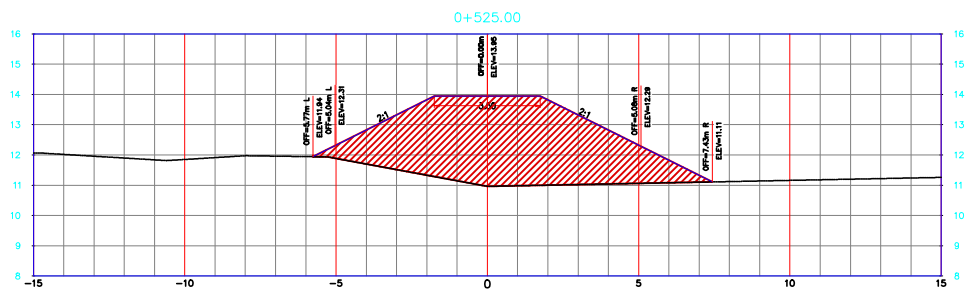
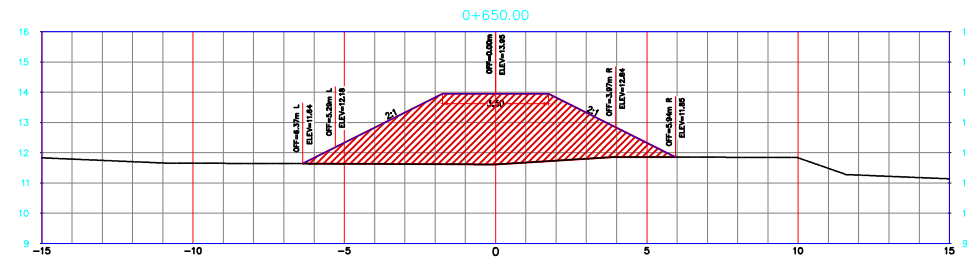
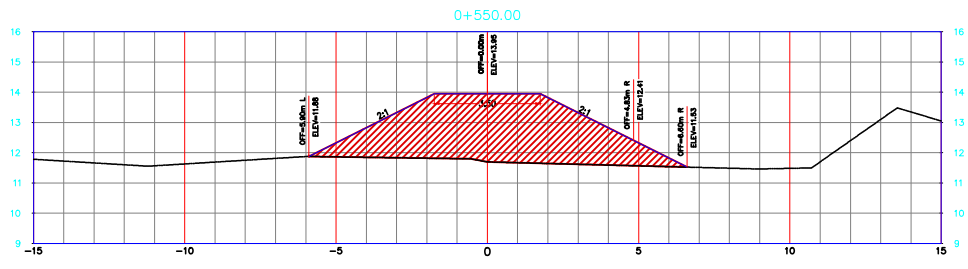
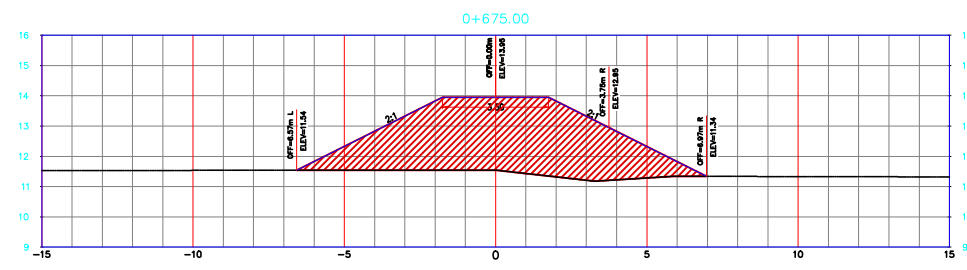
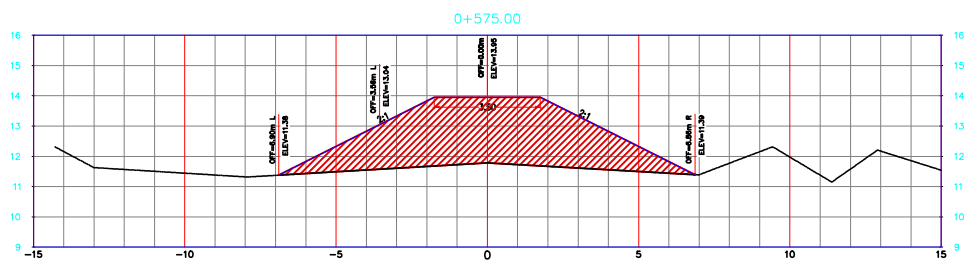
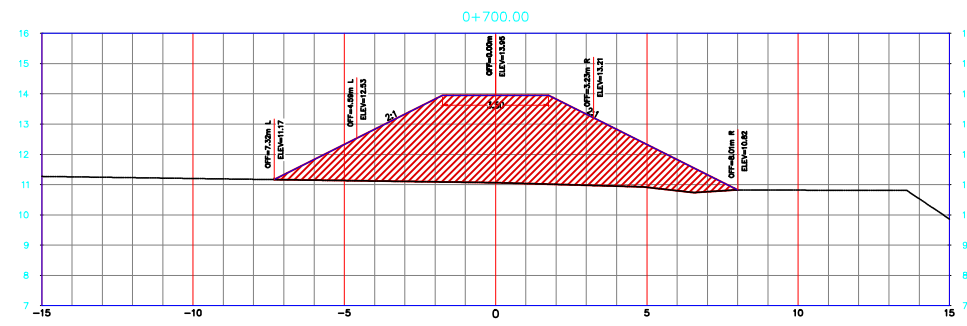
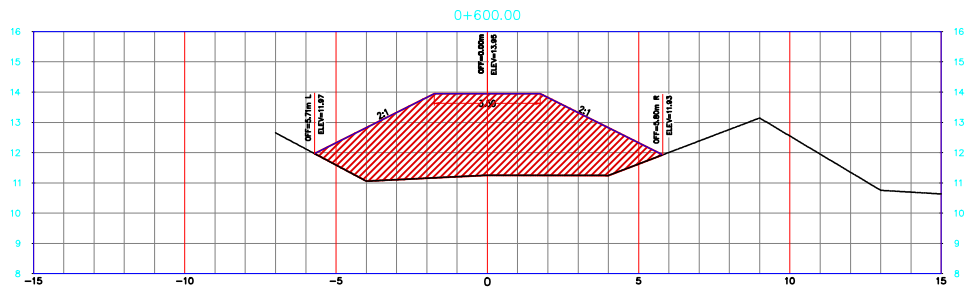
MUNICIPALIDAD DE OMOA

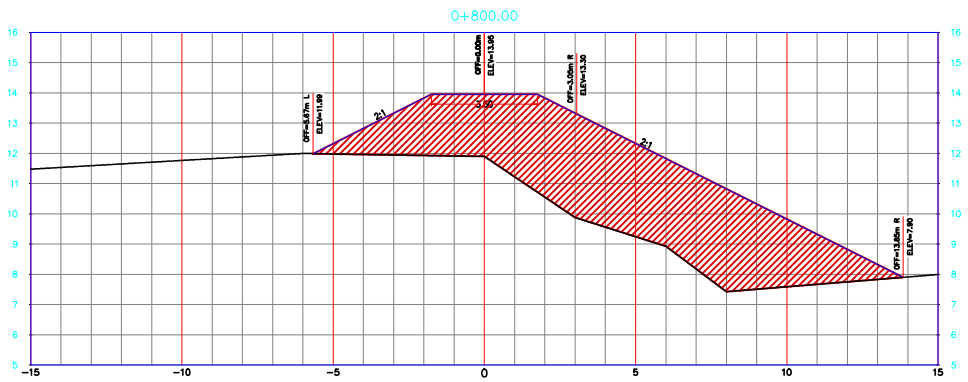
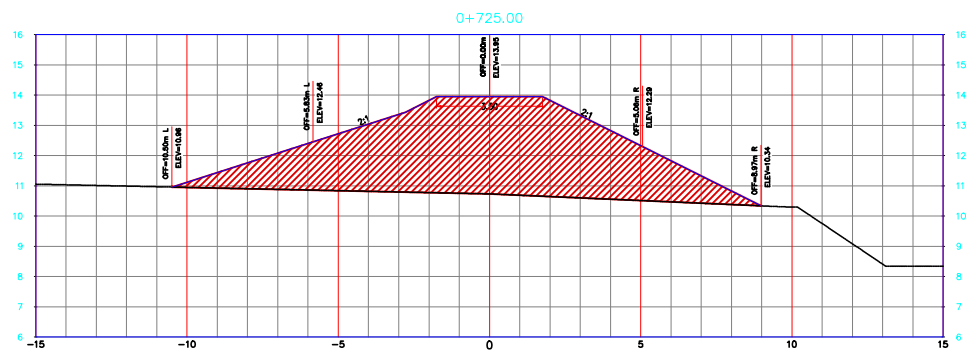
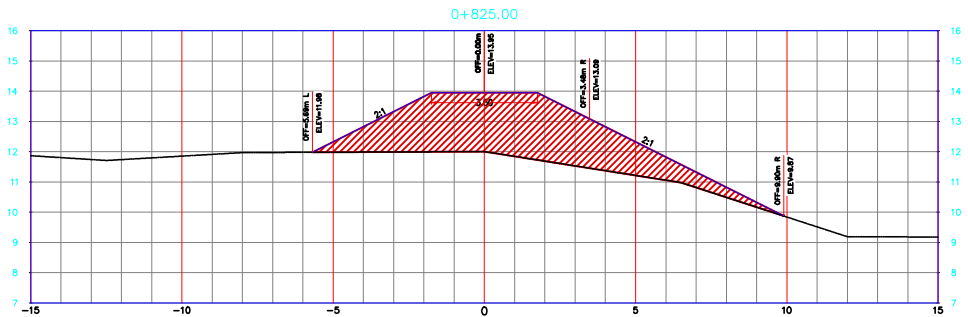
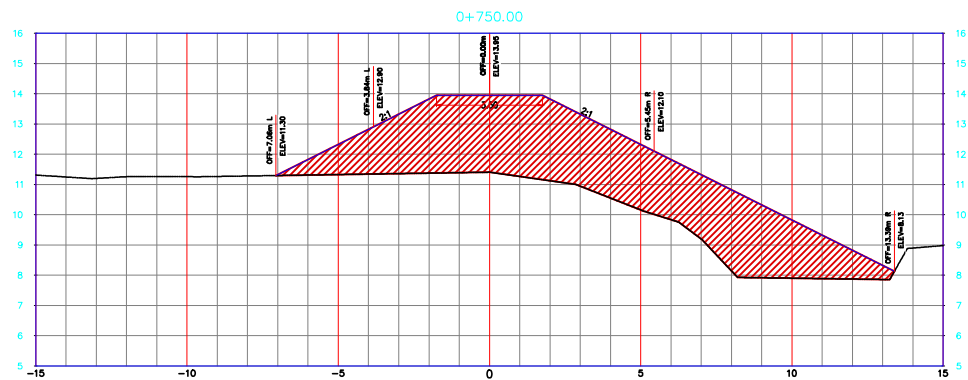
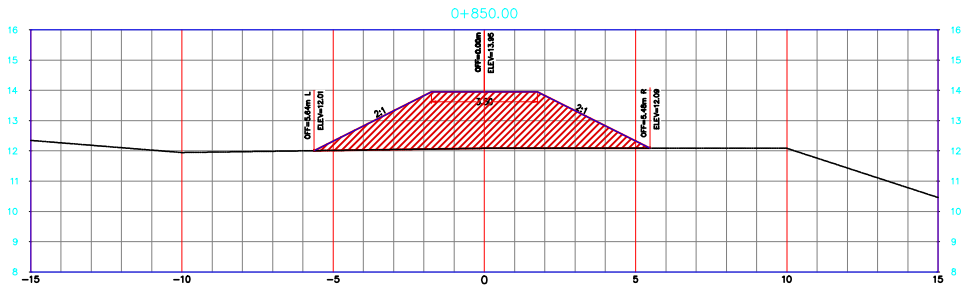
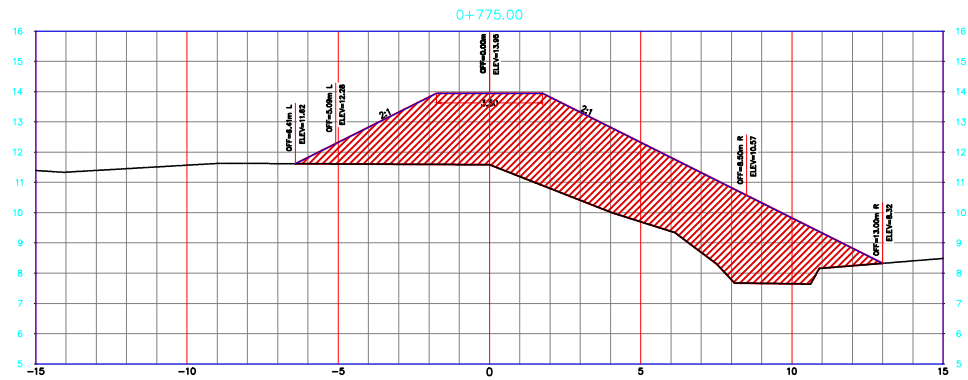
PROYECTO: **DISEÑO BORDO MARGEN DERECHO RIO OMOA, MUNICIPIO DE OMOA, DEPTO. CORTES**

CONTENIDO: **SECCIONES TRANSVERSALES BORDO MARGEN DERECHO RIO OMOA (0+225 A 0+500)**

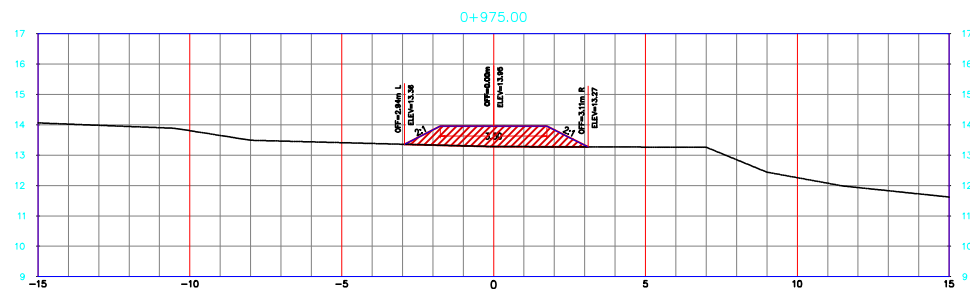
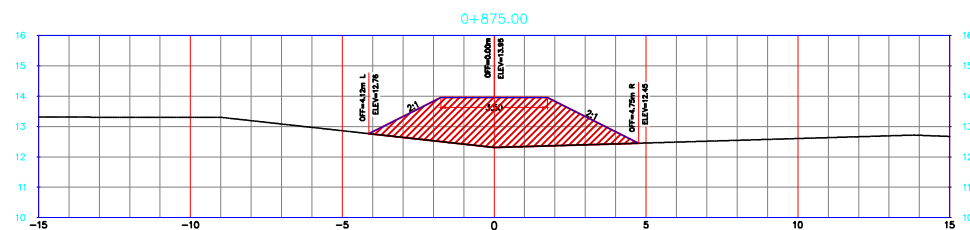
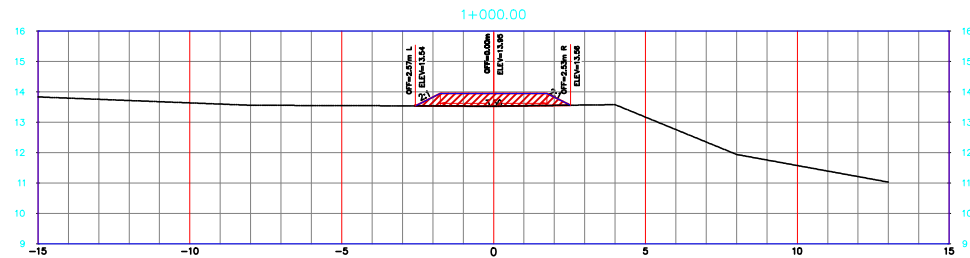
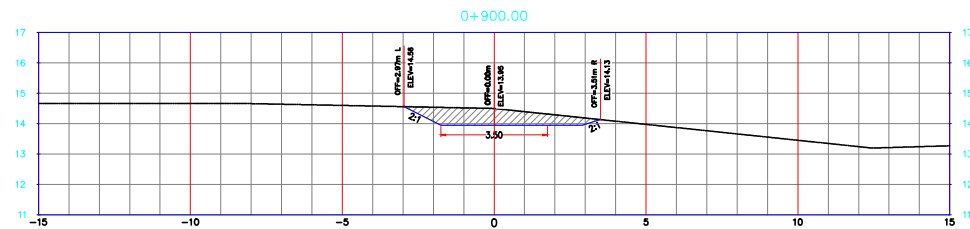
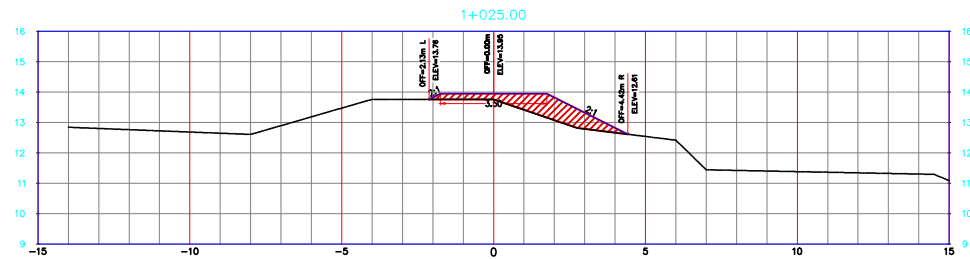
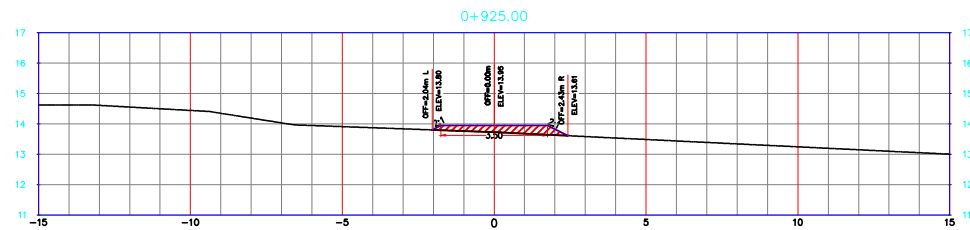
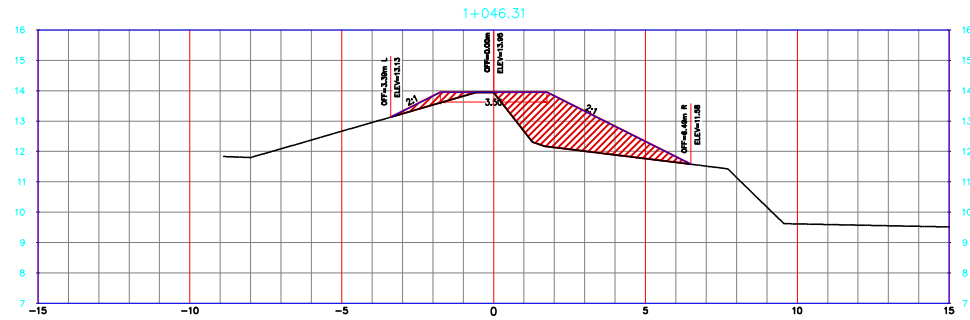
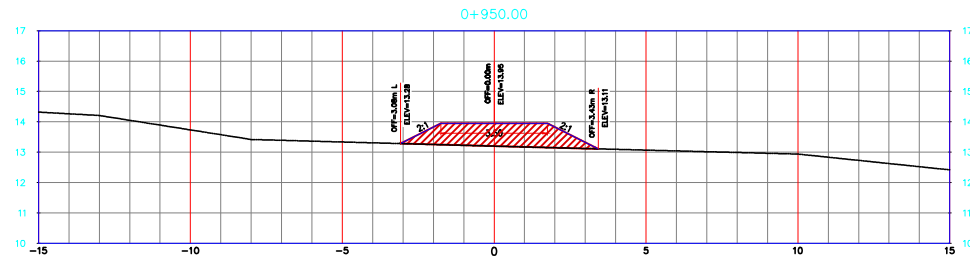
PLANO:
ST-06

ESCALA:
H=1:100
V=1:100
FECHA:
JUNIO DE 2017





J.A.R.M.	ING. CANDIDO O. RIVERA C.I.C.R. 921	PROPIETARIO:	 MUNICIPALIDAD DE OMOA <small>GOBIERNO DE AMBOS</small>	PROYECTO:	DISEÑO BORDO MARGEN DERECHO RIO OMOA, MUNICIPIO DE OMOA, DEPTO. CORTES	PLANO:	ST-08	ESCALA:	H=1:100 V=1:100
DIBUJO:	DISEÑO Y CALCULO:			CONTENIDO:	SECCIONES TRANSVERSALES BORDO MARGEN DERECHO RIO OMOA (0+725 A 0+850)		FECHA:	JUNIO DE 2017	
LEVANTO:	REVISO:								



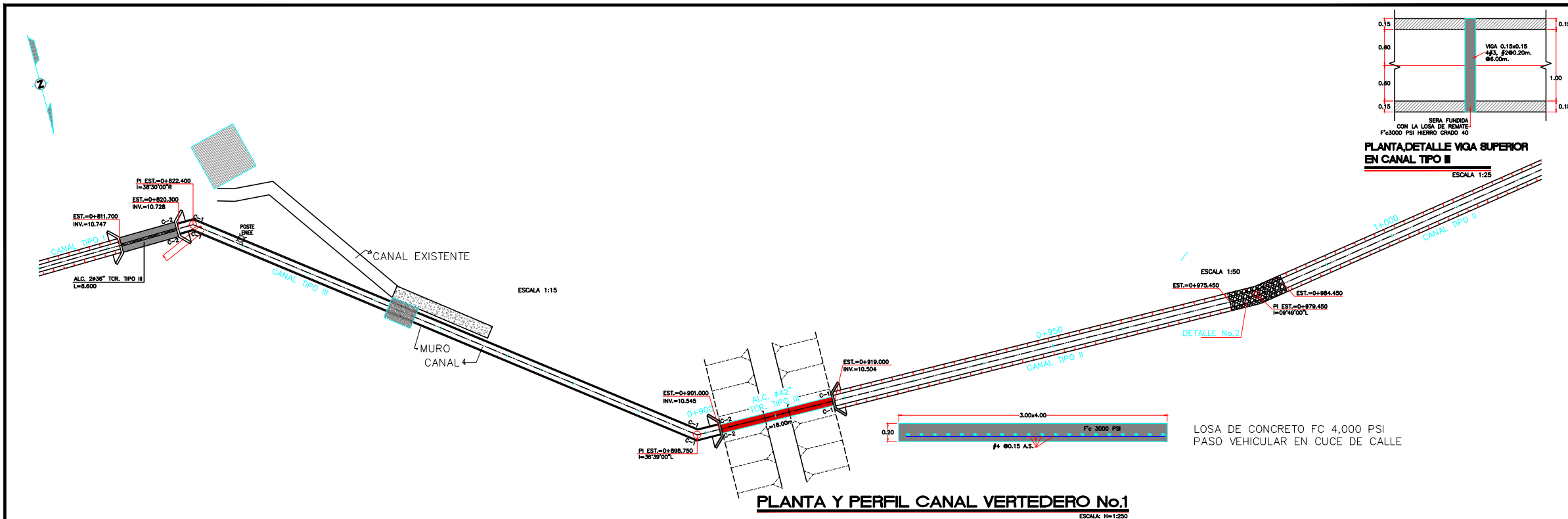
J.A.R.M.	ING. CANDIDO G. RIVERA C.I.C.H. 921	PROPIETARIO:
DIBUJO:	DISÑO Y CALCULO:	
LEVANTO:	REVISO:	


MUNICIPALIDAD DE OMOA

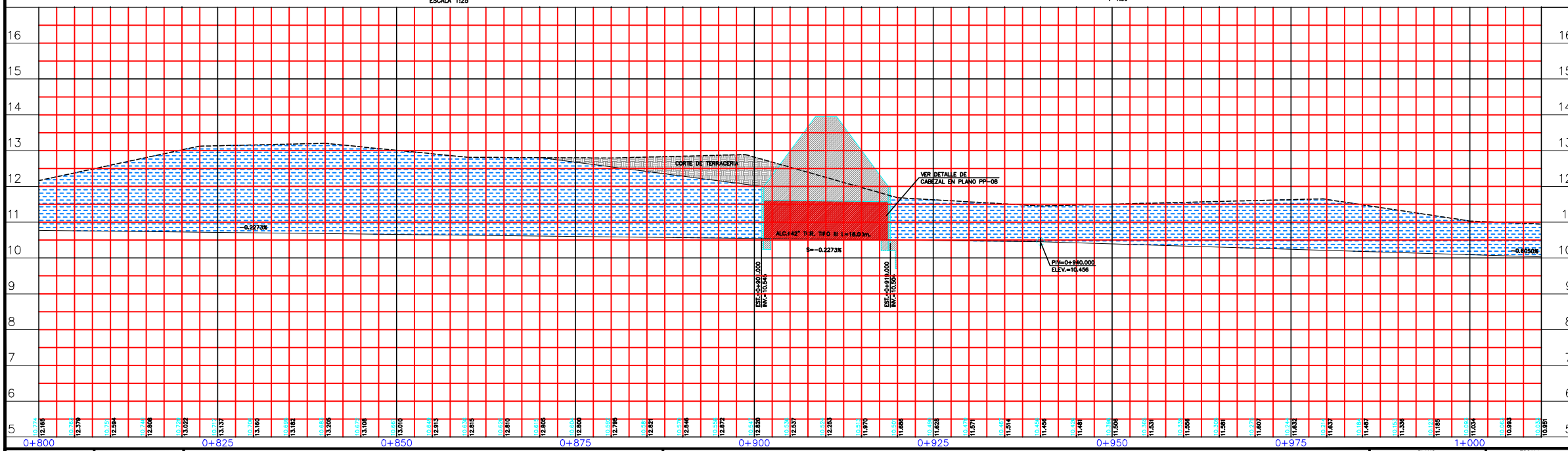
PROYECTO: **DISEÑO BORDO MARGEN DERECHO RIO OMOA, MUNICIPIO DE OMOA, DEPTO. CORTES**
 CONTENIDO: **SECCIONES TRANSVERSALES BORDO MARGEN DERECHO RIO OMOA (0+875 A 1+050)**

PLANO: **ST-09**

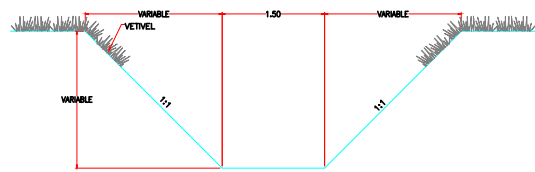
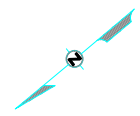
ESCALA:
 H=1:100
 V=1:100
 FECHA:
 JUNIO DE 2017



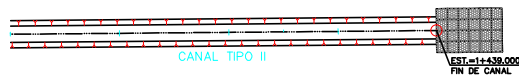
PLANTA Y PERFIL CANAL VERTEDERO No.1
 ESCALA: H=1:250 V=1:50



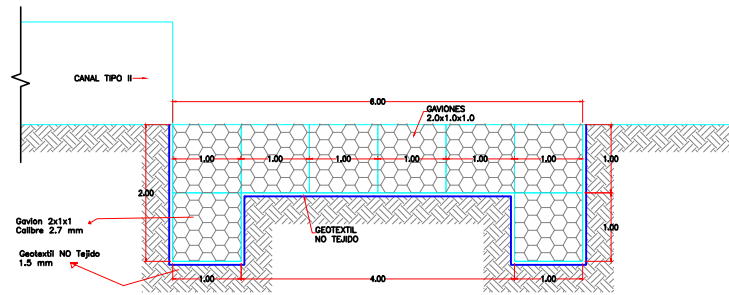
J.A.R.M. DIBUJO: LEVANTO:		ING. CANDIDO O. RIVERA C.I.C.H. 921 DISEÑO Y CALCULO: ING. RONALD AGUILERA UNIDAD TECNICA MUNICIPAL REVISO:		PROPIETARIO:  MUNICIPALIDAD DE OMOA MUNICIPIO DE OMOA		PROYECTO: DISEÑO DE LOS CANALES COLECTORES PARA EL SISTEMA DE DRENAJE DE A.L.L. EN EL SECTOR LADO DERECHO RIO OMOA				PLANO: PP-10		ESCALA: H = 1:250 V = 1:50 FECHA: JUNIO 2017	
CONTENIDO: HOJA DE PLANTA Y PERFIL CANAL VERTEDERO No.1, DETALLE DE BORDO													



CANAL TIPO II
ESCALA 1:20



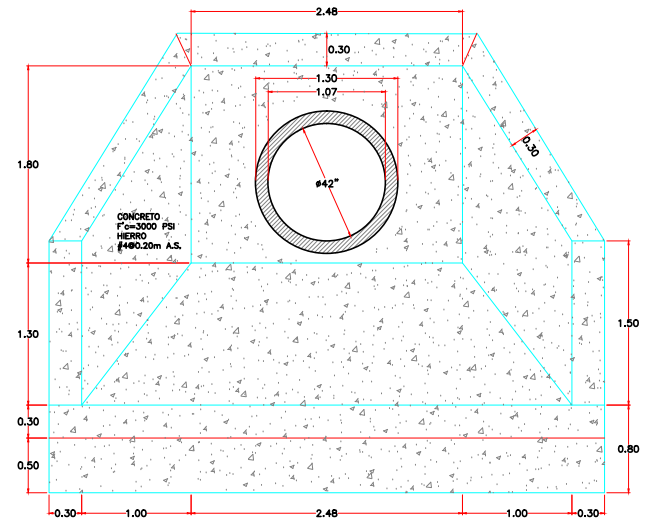
EST. 0+030, ALC Ø 42" TCR-III



PERFIL DESCARGA CANAL TIPO II
ESCALA 1:40

DETALLE ESTRUCTURAL ALCANTARILLA Ø42" SOBRE CRUCE DE BORDO MD. RIO OMOA

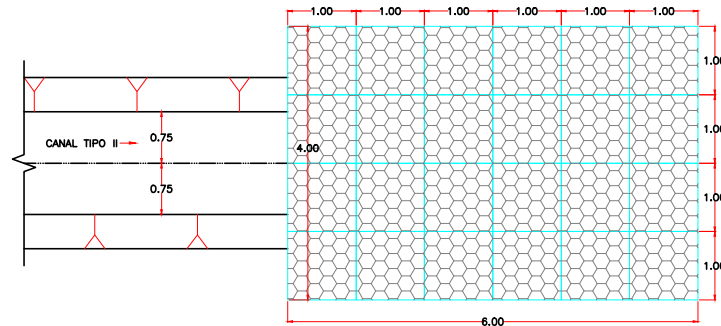
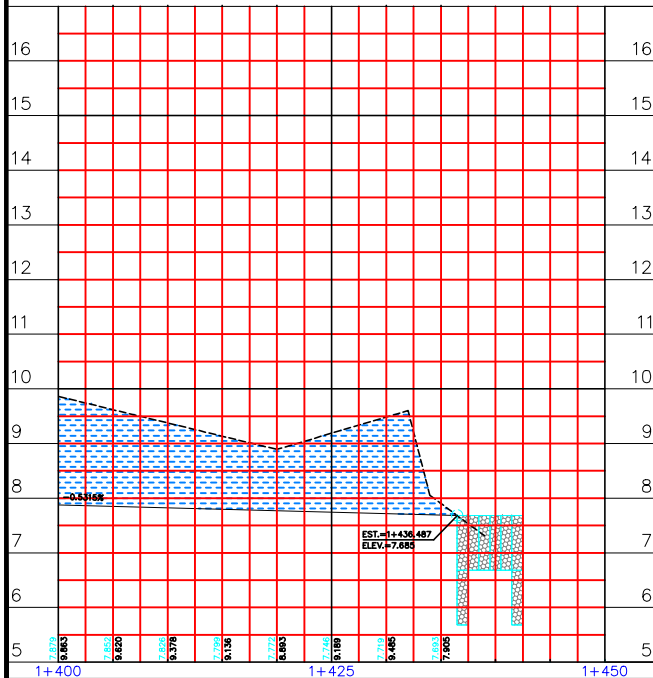
ESCALA 1:25



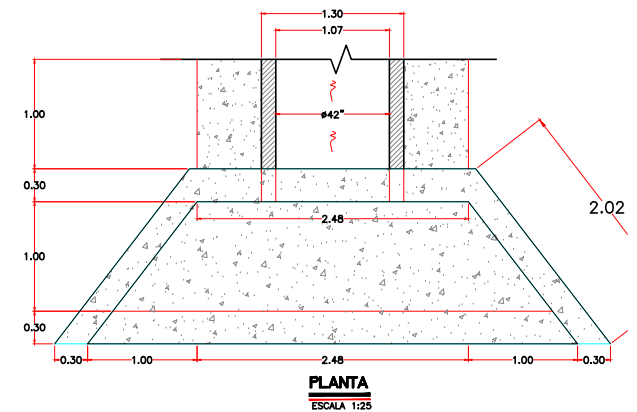
ELEVACION
ESCALA 1:25

PLANTA Y PERFIL CANAL VERTEDERO No.1

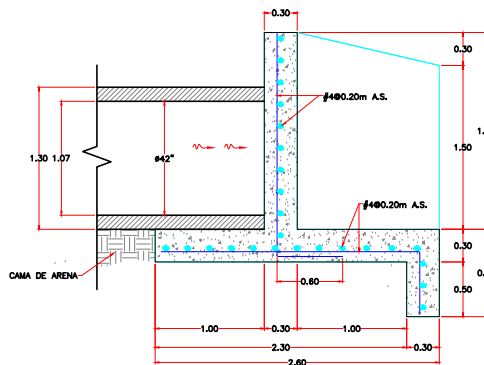
ESCALA: H=1:250
V=1:50



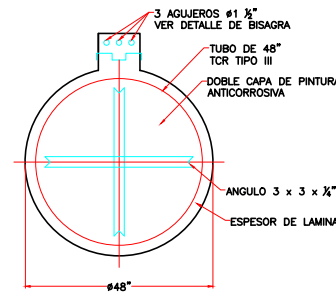
PLANTA DETALLE DESCARGA CANAL TIPO II
ESCALA 1:40



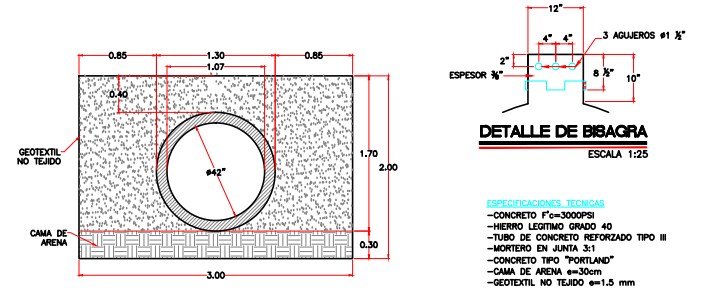
PLANTA
ESCALA 1:25



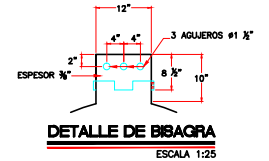
SECCION I-I
ESCALA 1:25



DETALLE DE TAPADERA METALICA
ESCALA 1:20



ZANJA EN ALC. Ø42"
ESCALA 1:25



DETALLE DE BISAGRA
ESCALA 1:25

- ESPECIFICACIONES TECNICAS**
- CONCRETO F'c=3000PSI
 - HIERRO LEGITIMO GRADO 40
 - TUBO DE CONCRETO REFORZADO TIPO III
 - MORTERO EN JUNTA 3:1
 - CONCRETO TIPO "PORTLAND"
 - CAMA DE ARENA e=30cm
 - GEOTEXTIL NO TEJIDO e=1.5 mm

J.A.R.M.	ING. CANDIDO O. RIVERA C.I.C.H., 921	PROPIETARIO:
DIBUJO:	DISENO Y CALCULO:	
LEVANTO:	ING. RONALD AGUILERA UNIDAD TECNICA MUNICIPAL	
	REVISO:	



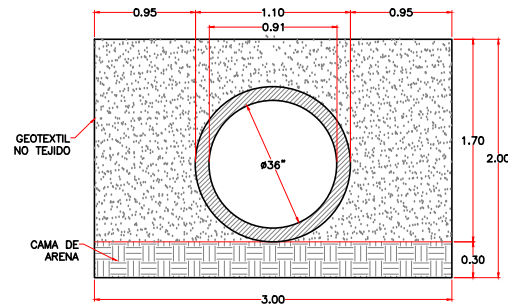
CONTENIDO:	DISEÑO DE LOS CANALES COLECTORES PARA EL SISTEMA DE DRENAJE DE A.L.L. EN EL SECTOR LADO DERECHO RIO OMOA
	DETALLES DE ALCANTARILLA DE Ø 42" TCR-III

PLANO:	ESCALA:
PP-11	H = 1:250 V = 1:50
	FECHA:
	JUNIO 2017

EST. 1+046.31, ALC Ø 36" TCR-III

DETALLE ESTRUCTURAL ALCANTARILLA Ø36" TCR-III SOBRE CRUCE DE BORDO M.D. RIO OMOA

ESCALA 1:25



ZANJA EN ALC. Ø44"

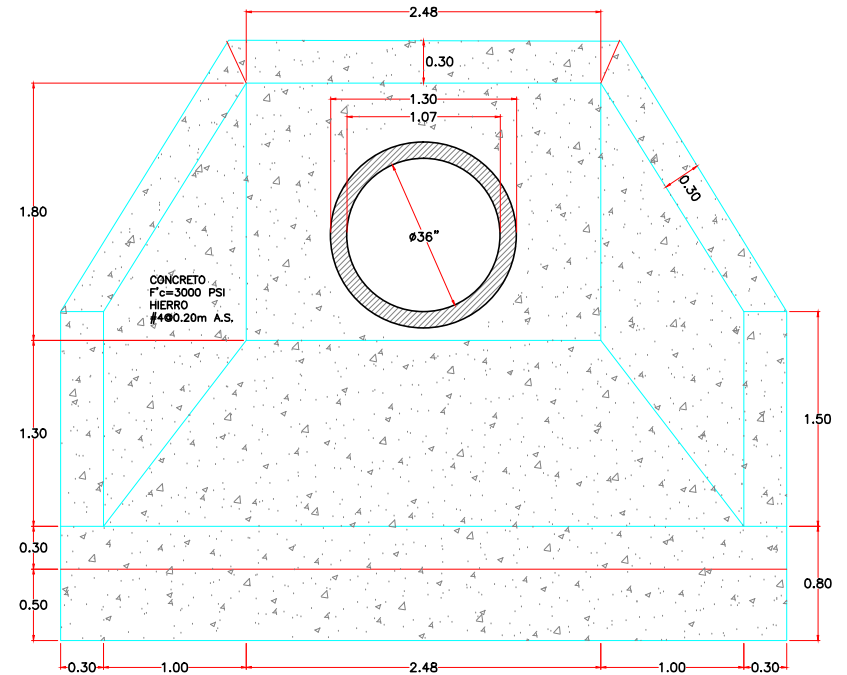
ESCALA 1:25

DETALLE DE BISAGRA

ESCALA 1:25

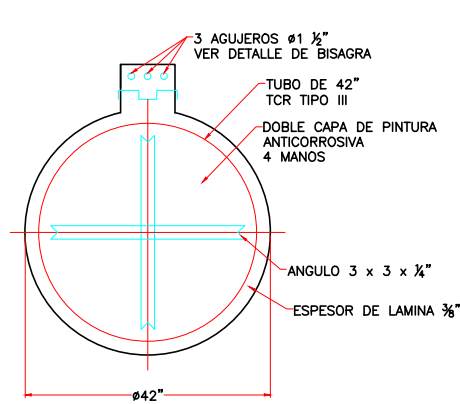
ESPECIFICACIONES TÉCNICAS

- CONCRETO $F'_c=3000$ PSI
- HIERRO LEGÍTIMO GRADO 42
- TUBO DE CONCRETO REFORZADO TIPO III
- MORTERO EN JUNTA 3:1
- CONCRETO TIPO "PORTLAND"
- CAMA DE ARENA $\phi=30$ cm
- GEOTEXTIL NO TEJIDO

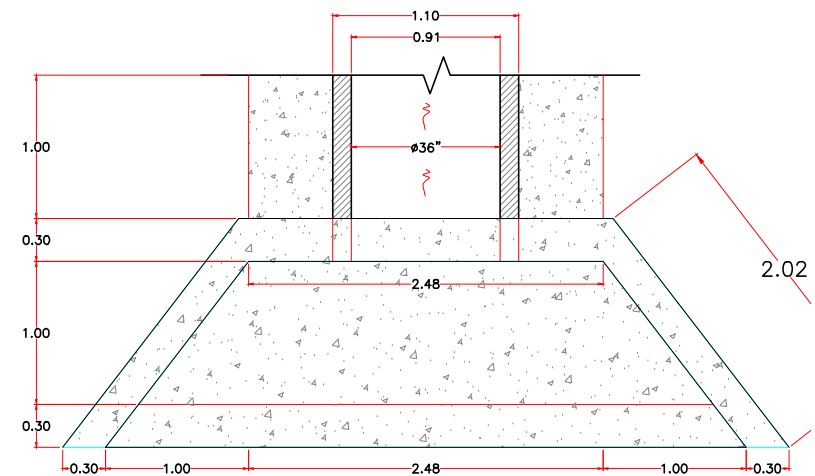
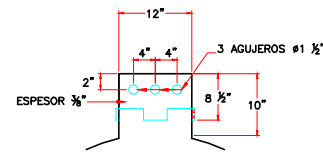


ELEVACION

ESCALA 1:25



DETALLE DE TAPADERA METALICA



PLANTA

ESCALA 1:25

ESCALA 1:20

J.A.R.M.	ING. CANDIDO O. RIVERA C.A.G.P. 921	PROPIETARIO:
DIBUJO:	DISÑO Y CALCULO:	
LEVANTO:	ING. RONALD AGUILERA UNIDAD TECNICA MUNICIPAL	
	REVISO:	



MUNICIPALIDAD DE OMOA

CONTENIDO:

DISÑO DE LOS CANALES COLECTORES PARA EL SISTEMA
DE DRENAJE DE A.L.L. EN EL SECTOR LADO DERECHO RIO OMOA

HOJA DE DETALLES ALCANTARILLA DE Ø 36" TCR-III

PLANO:

PP-12

ESCALA:

H = 1:250
V = 1:50

FECHA:

JUNIO 2017

CALCULO CANAL TRAPEZOIDAL

(Canal trapezoidal EST. 0+030)

ESTACIO	AREA (M2)	AREA PROM. (M2)	DISTANCIA (M)	VOL.CORTE PARCIAL (M3)	VOLUMEN ACUMULADO (M3)
0+901.00	7.42	4.94	18	0.00	0.00
0+919.00	2.47	2.74	6	16.44	16.44
0+925.00	3.01	2.95	25	73.75	90.19
0+950.00	2.9	3.46	25	86.50	176.69
0+975.00	4.02	3.15	25	78.75	255.44
1+000.00	2.29	2.22	25	55.50	310.94
1+025.00	2.16	2.76	25	69.00	379.94
1+050.00	3.36	4.14	25	103.50	483.44
1+075.00	4.91	4.61	25	115.25	598.69
1+100.00	4.32	3.9	25	97.50	696.19
1+125.00	3.48	6.26	25	156.50	852.69
1+150.00	9.05	10.83	25	270.75	1,123.44
1+175.00	12.61	9.83	25	245.75	1,369.19
1+200.00	7.05	4.57	25	114.25	1,483.44
1+225.00	2.09	2.9	25	72.50	1,555.94
1+250.00	3.72	4.22	25	105.50	1,661.44
1+275.00	4.73	4.06	25	101.50	1,762.94
1+300.00	3.4	3.07	25	76.75	1,839.69
1+325.00	2.75	3.11	25	77.75	1,917.44
1+350.00	3.48	4.61	25	115.25	2,032.69
1+375.00	5.74	6.31	25	157.75	2,190.44
1+400.00	6.89	5.56	25	139.00	2,329.44
1+425.00	4.23	5.01	25	125.25	2,454.69
1+435.00	5.79				
GRAN TOTAL:				2,454.69	

EXCAVACION CANAL TRAPEZOIDAL

EST. 1+046.31 , LONGITUD L=100.00 mts, altura 1.50 mts, VOL. = 315.00 M3

VOLUMEN DE BORDO MATERIAL DE IMPORTE

<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut</u> <u>Volume</u> <u>(Cu.m.)</u>	<u>Reusable</u> <u>Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill</u> <u>Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut</u> <u>Vol.</u> <u>(Cu.m.)</u>	<u>Cum.</u> <u>Reusable</u> <u>Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill</u> <u>Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net</u> <u>Vol.</u> <u>(Cu.m.)</u>
0+025.000	0.00	0.00	0.00	26.20	0.00	0.00	0.00	0.00	0.00
0+050.000	0.00	0.00	0.00	29.44	695.53	0.00	0.00	695.53	-695.53
0+075.000	0.00	0.00	0.00	28.58	725.29	0.00	0.00	1,420.82	-1,420.82
0+100.000	0.00	0.00	0.00	23.73	653.85	0.00	0.00	2,074.67	-2,074.67
0+125.000	0.00	0.00	0.00	35.29	737.77	0.00	0.00	2,812.44	-2,812.44
0+150.000	0.00	0.00	0.00	33.04	854.13	0.00	0.00	3,666.57	-3,666.57
0+175.000	0.00	0.00	0.00	35.20	852.90	0.00	0.00	4,519.47	-4,519.47
0+200.000	0.00	0.00	0.00	9.89	563.54	0.00	0.00	5,083.01	-5,083.01
0+225.000	0.00	0.00	0.00	10.02	248.68	0.00	0.00	5,331.69	-5,331.69
0+250.000	0.00	0.00	0.00	9.94	249.51	0.00	0.00	5,581.20	-5,581.20
0+275.000	0.00	0.00	0.00	8.24	227.16	0.00	0.00	5,808.36	-5,808.36
0+300.000	0.00	0.00	0.00	5.30	169.26	0.00	0.00	5,977.62	-5,977.62
0+325.000	0.00	0.00	0.00	5.79	138.56	0.00	0.00	6,116.18	-6,116.18
0+350.000	0.00	0.00	0.00	4.40	127.29	0.00	0.00	6,243.47	-6,243.47
0+375.000	0.00	0.00	0.00	3.66	100.68	0.00	0.00	6,344.14	-6,344.14
0+400.000	0.00	0.00	0.00	4.40	100.75	0.00	0.00	6,444.89	-6,444.89
0+425.000	0.00	0.00	0.00	14.66	238.26	0.00	0.00	6,683.16	-6,683.16
0+450.000	0.00	0.00	0.00	29.59	553.16	0.00	0.00	7,236.32	-7,236.32
0+475.000	0.00	0.00	0.00	23.14	659.23	0.00	0.00	7,895.55	-7,895.55
0+500.000	0.00	0.00	0.00	21.25	554.94	0.00	0.00	8,450.50	-8,450.50
0+525.000	0.00	0.00	0.00	23.74	562.39	0.00	0.00	9,012.88	-9,012.88
0+550.000	0.00	0.00	0.00	17.77	518.82	0.00	0.00	9,531.70	-9,531.70
0+575.000	0.00	0.00	0.00	19.40	465.03	0.00	0.00	9,996.73	-9,996.73
0+600.000	0.00	0.00	0.00	22.38	522.32	0.00	0.00	10,519.05	-10,519.05
0+625.000	0.00	0.00	0.00	15.42	472.61	0.00	0.00	10,991.66	-10,991.66
0+650.000	0.00	0.00	0.00	17.97	417.43	0.00	0.00	11,409.09	-11,409.09

VOLUMEN DE BORDO MATERIAL DE IMPORTE

<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut</u> <u>Volume</u> <u>(Cu.m.)</u>	<u>Reusable</u> <u>Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill</u> <u>Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut</u> <u>Vol.</u> <u>(Cu.m.)</u>	<u>Cum.</u> <u>Reusable</u> <u>Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill</u> <u>Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net</u> <u>Vol.</u> <u>(Cu.m.)</u>
0+675.000	0.00	0.00	0.00	21.54	493.90	0.00	0.00	11,902.99	-11,902.99
0+700.000	0.00	0.00	0.00	27.44	612.32	0.00	0.00	12,515.31	-12,515.31
0+725.000	0.00	0.00	0.00	36.38	797.84	0.00	0.00	13,313.15	-13,313.15
0+750.000	0.00	0.00	0.00	38.72	990.09	0.00	0.00	14,303.24	-14,303.24
0+775.000	0.00	0.00	0.00	39.80	981.57	0.00	0.00	15,284.81	-15,284.81
0+800.000	0.00	0.00	0.00	42.10	1,023.79	0.00	0.00	16,308.61	-16,308.61
0+825.000	0.00	0.00	0.00	18.59	758.60	0.00	0.00	17,067.21	-17,067.21
0+850.000	0.00	0.00	0.00	13.69	403.47	0.00	0.00	17,470.68	-17,470.68
0+875.000	0.00	0.00	0.00	9.63	291.50	0.00	0.00	17,762.18	-17,762.18
0+900.000	2.57	32.16	32.16	0.00	120.39	32.16	32.16	17,882.57	-17,850.41
0+925.000	0.00	32.14	32.14	0.92	11.33	64.30	64.30	17,893.91	-17,829.61
0+950.000	0.00	0.00	0.00	3.76	58.52	64.30	64.30	17,952.43	-17,888.13
0+975.000	0.00	0.00	0.00	3.14	86.34	64.30	64.30	18,038.77	-17,974.47
1+000.000	0.00	0.00	0.00	1.77	61.48	64.30	64.30	18,100.25	-18,035.95
1+025.000	0.00	0.00	0.00	2.46	52.98	64.30	64.30	18,153.23	-18,088.93
1+050.000	0.00	0.01	0.01	7.75	127.66	64.31	64.31	18,280.89	-18,216.58