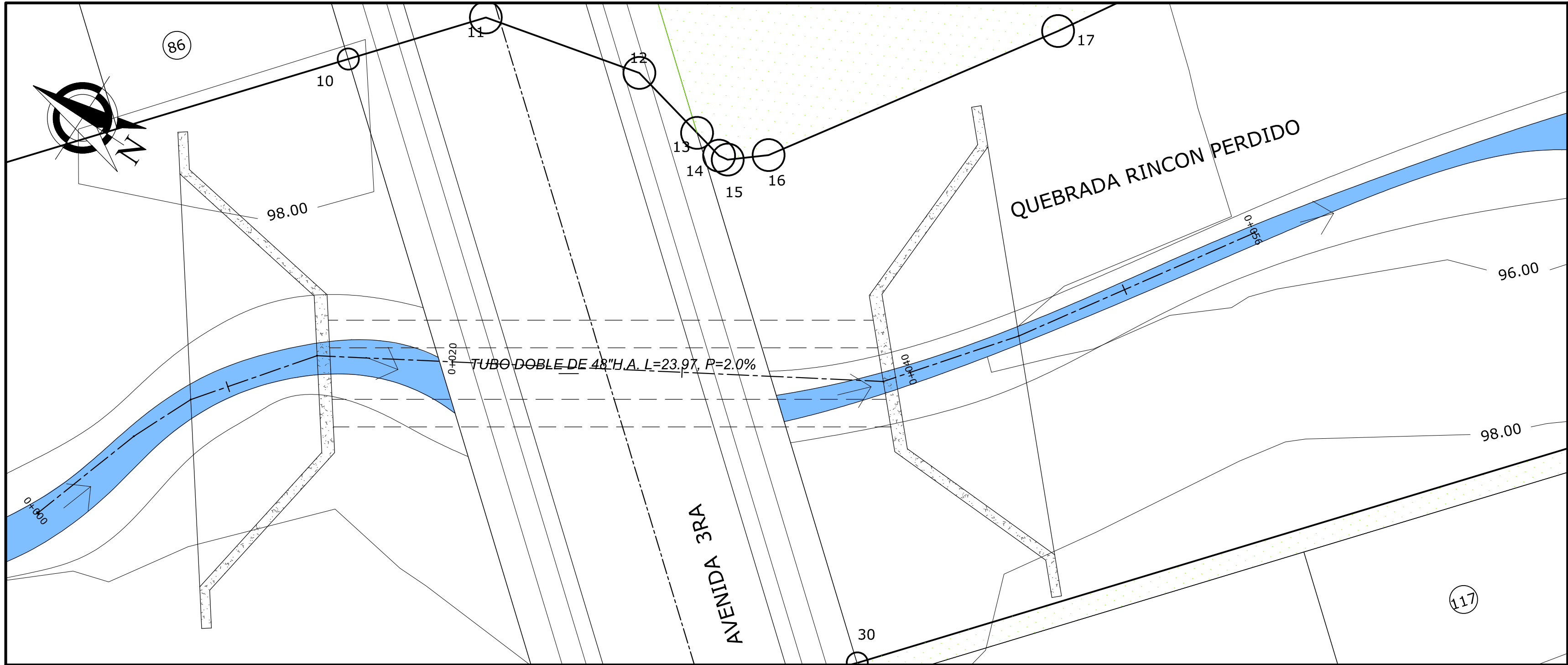
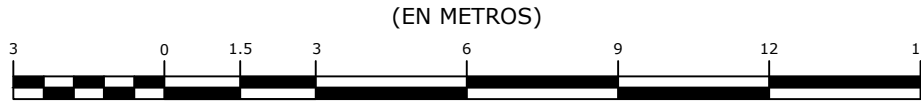


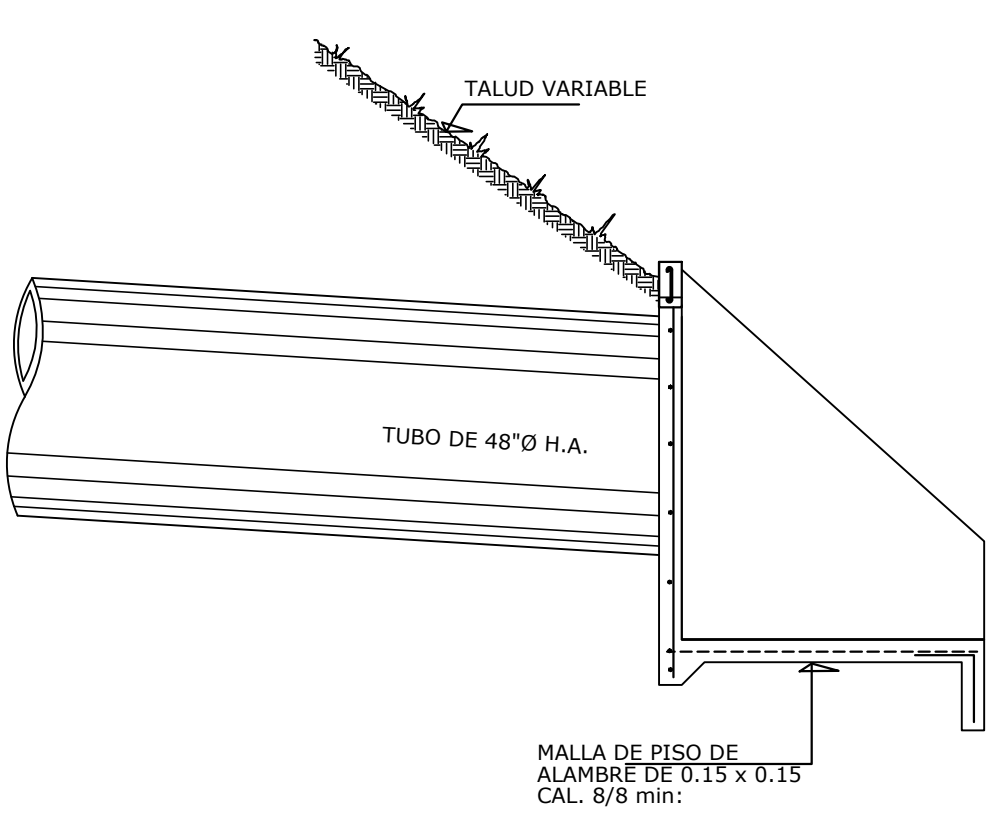
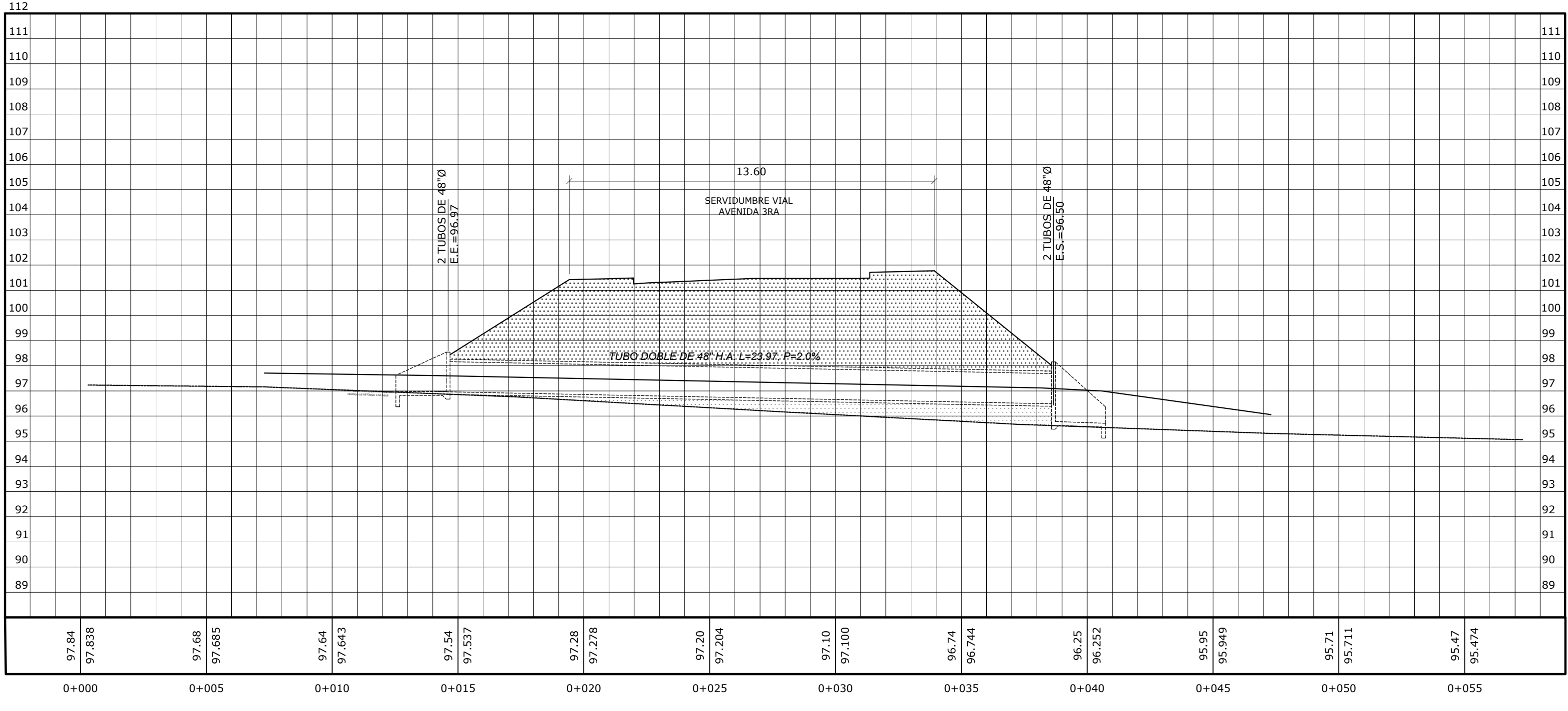


PLANO PERFIL DE SOLUCION PLUVIAL

ESC. 1:150

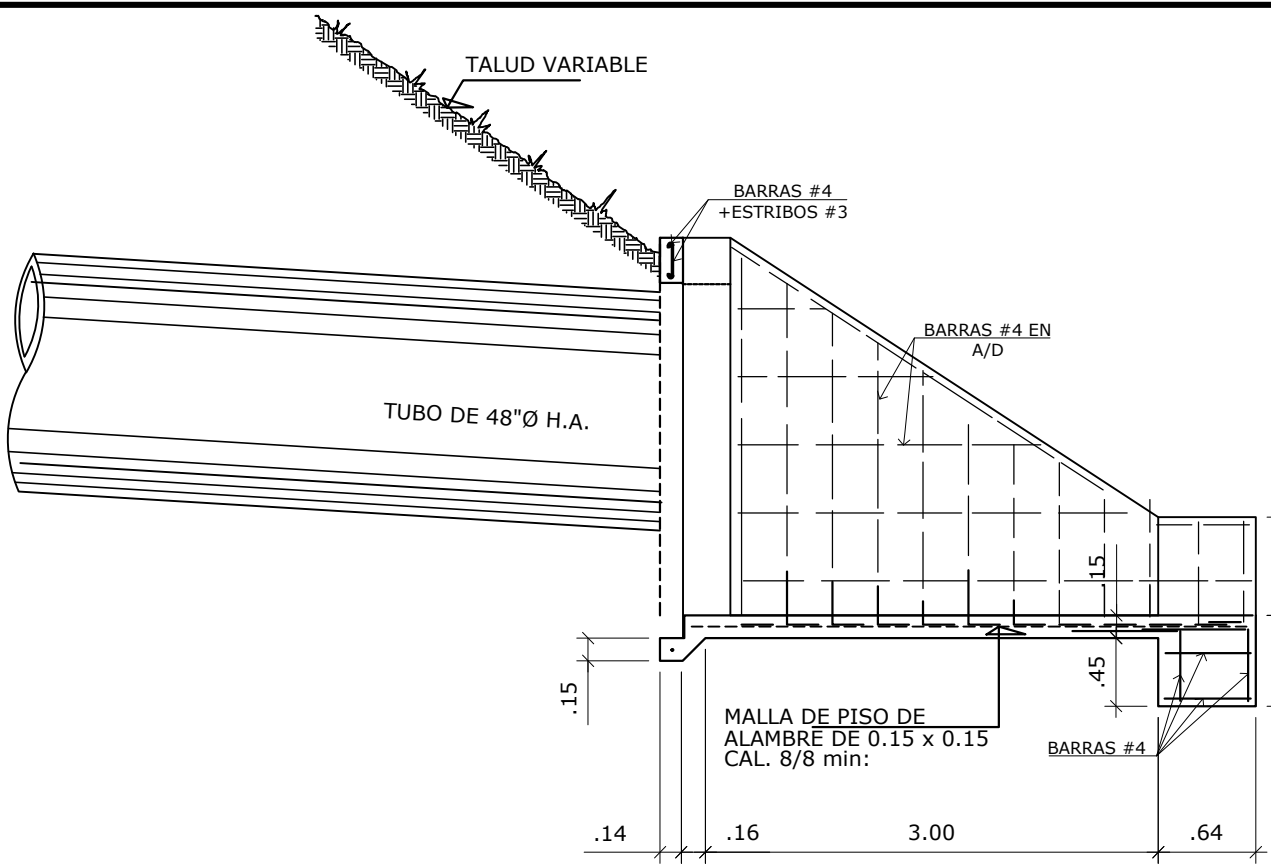


1 : 150



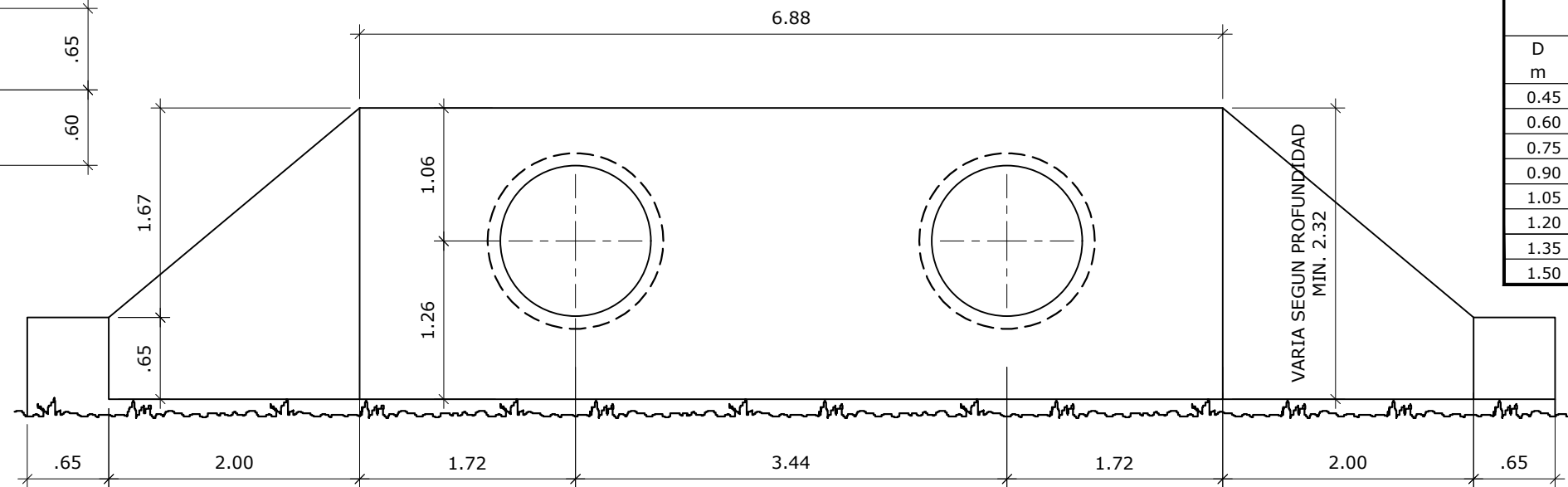
SECCION X-X

ESCALA = 1 : 50



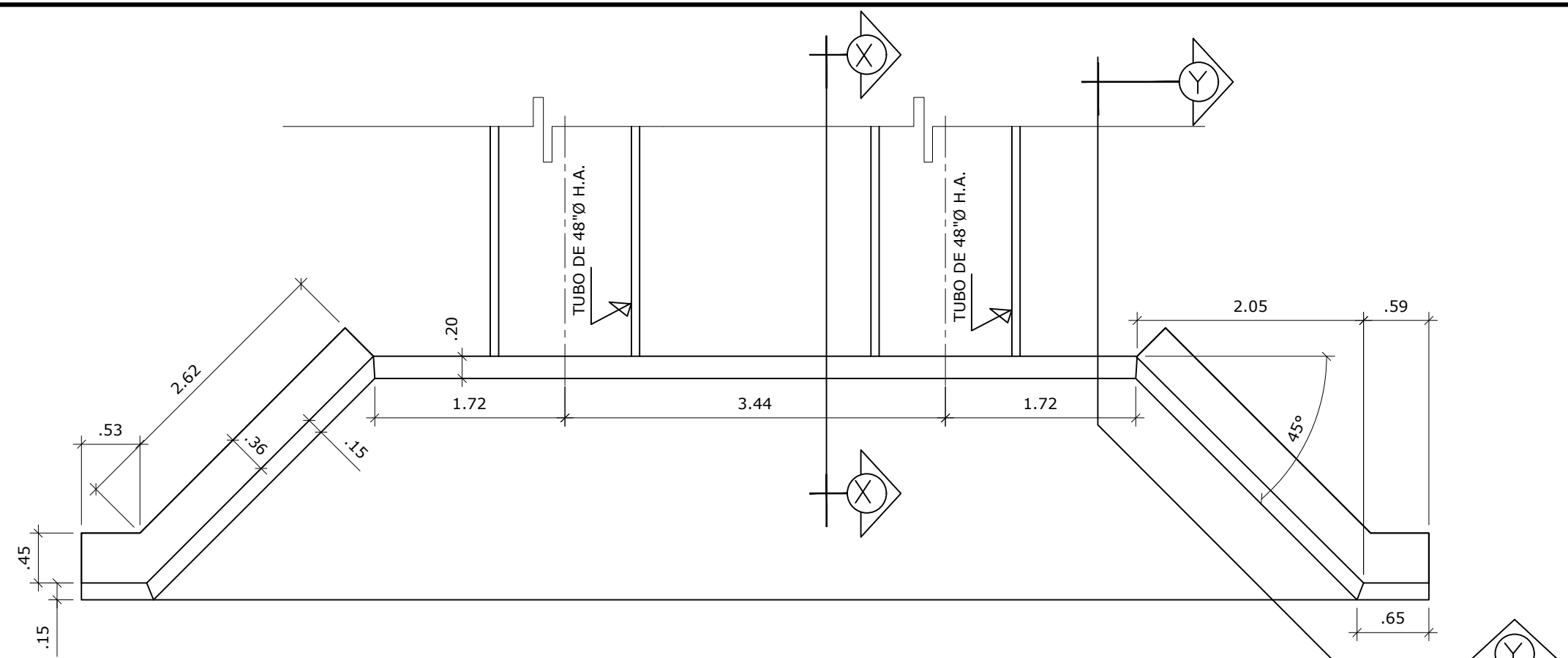
SECCION Y-Y

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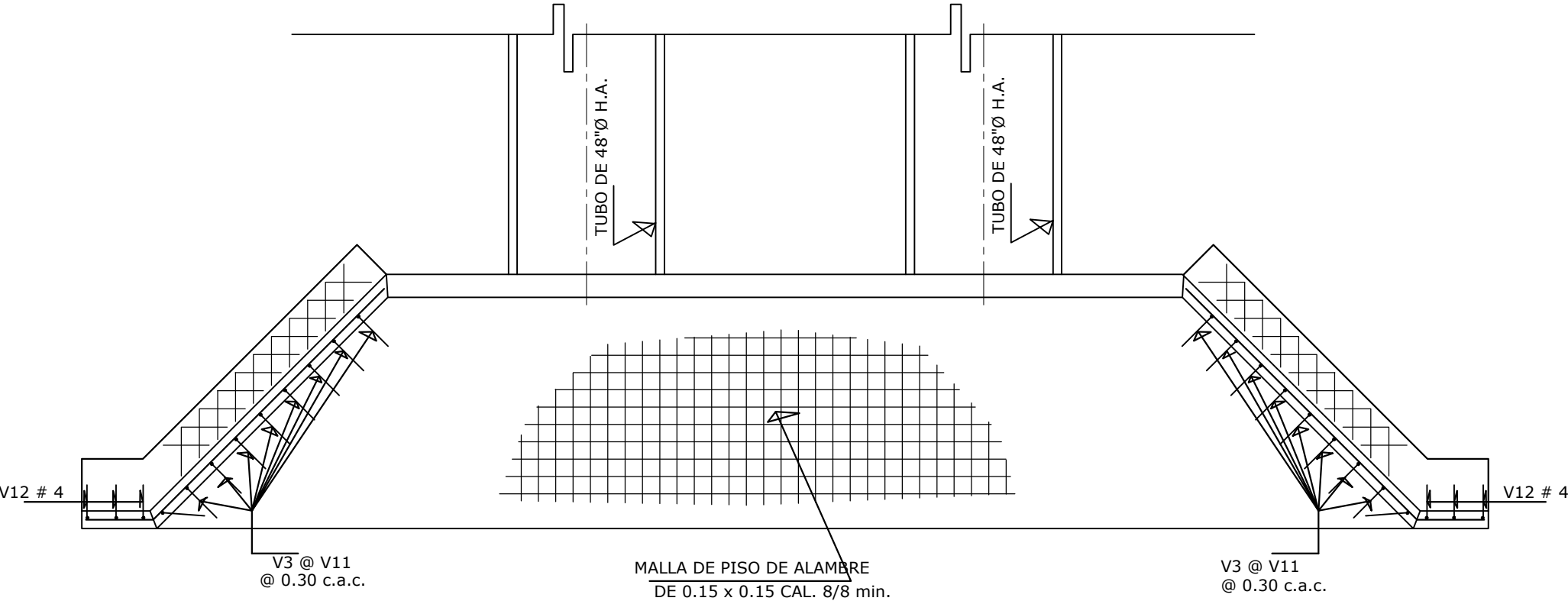
ELEVACION FRONTAL DE CABEZAL

ESCALA = 1 : 50



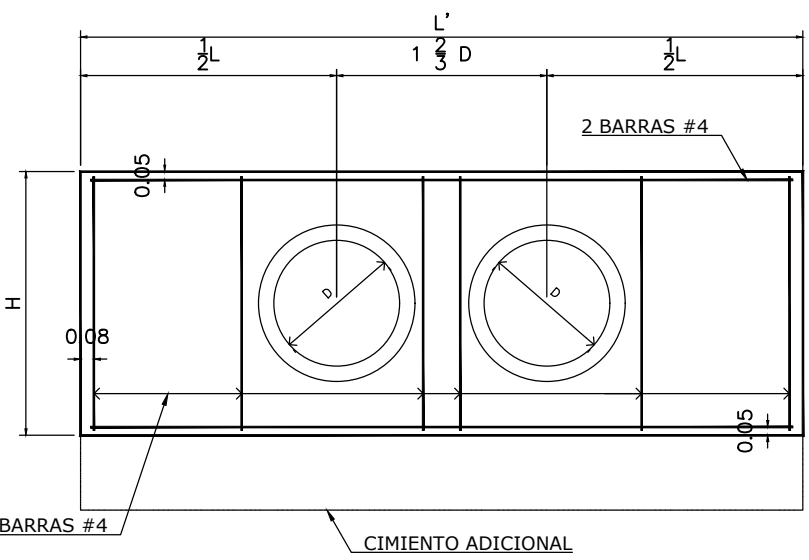
PLANTA DE CABEZAL PARA DOS TUBO

ESCALA = 1 : 50

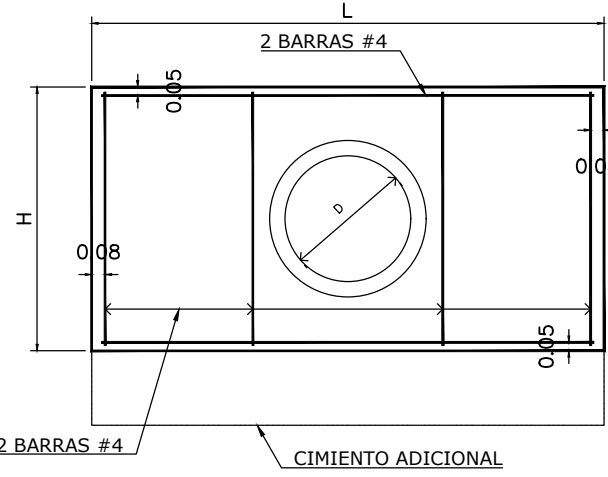


PLANTA DE ESTRUCTURAL DE CABEZAL

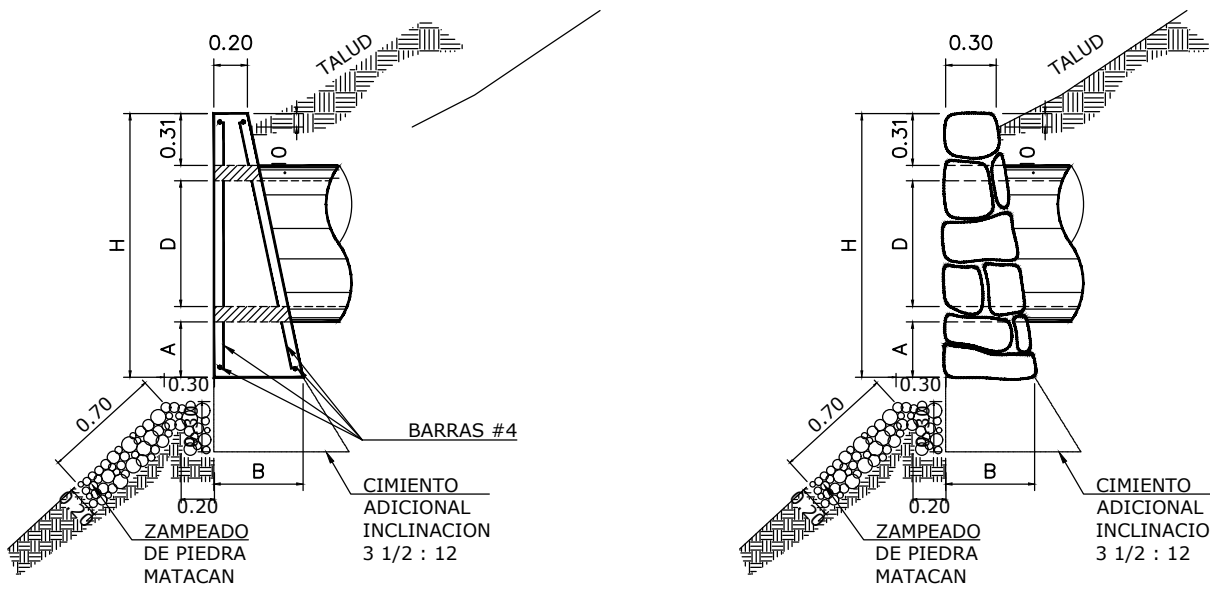
ESCALA = 1 : 50



ELEVACION TUBO DOBLE



ELEVACION TUBO SIMPLE



CABEZAL DE HORMIGON

CABEZAL DE MAMP. CON MORTERO

DATOS Y CANTIDADES PARA CABEZALES															
HORMIGON															
TUBO SIMPLE				TUBO DOBLE				TUBO TRIPLE				MAMPOSTERIA CON MORTERO			
D	A	H	B	L	HORM.	ACERO	L	HORM.	ACERO	L'	HORM.	ACERO	B	L	MAMP.
m	m	m	m	m	m ³	Kg	m	m ³	Kg	m	m ³	Kg	m	m	m ³
0.45	0.18	1.07	0.35	1.83	0.93	29.73	2.58	1.23	43.74	3.33	1.53	57.76	0.35	1.52	0.82
0.60	0.26	1.32	0.43	2.44	1.76	38.55	3.44	2.32	56.54	4.44	2.88	74.54	0.45	1.93	1.48
0.75	0.33	1.57	0.53	3.05	3.03	47.38	4.30	3.99	69.35	5.55	4.96	91.32	0.58	2.34	2.41
0.90	0.41	1.82	0.61	3.66	4.69	56.91	5.16	6.19	82.15	6.66	7.70	108.10	0.60	2.75	3.70
1.05	0.48	2.07	0.71	4.27	7.00	65.03	6.02	8.25	95.06	7.77	11.50	124.87	0.70	3.15	5.33
1.20	0.56	2.32	0.81	4.88	9.98	73.88	6.88	13.22	107.76	8.88	16.46	141.65	0.80	3.57	7.47
1.35	0.64	2.58	0.91	5.50	11.95	82.88	7.75	15.50	120.71	10.00	19.05	158.45	0.90	3.74	10.33
1.50	0.72	2.84	1.01	6.20	16.47	92.94	8.70	20.30	135.07	11.12	23.81	176.47	1.00	3.90	12.10

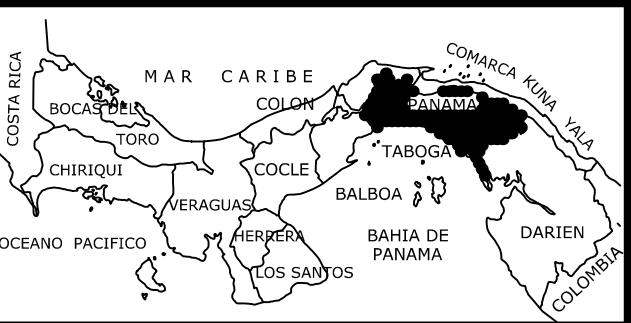
ESTA TABLA HA SIDO ADOPTADA DEL MANUAL DE APROBACION DE PLANOS DEL M.O.P.

CABEZALES PARA TUBOS DE DARENAJES

PLANO NO APTO PARA CONSTRUCCION SUJETO A CAMBIOS

DIRECTOR DE OBRAS Y
CONST. MUNICIPALES

REPRESENTANTE LEGAL: JACOB BEN TOLIA
CEDULA: E-8-116186



PROYECTO
URBANIZACION JARDINES DE
BUENOS AIRES
PROMOTOR: MEGAHOOGARES, S.A.

REPUBLICA DE PANAMA

PROVINCIA: PANAMA
CORREG: CHILIBRE

DISTRITO: PANAMA
LUGAR: CHILIBRE

URBANISMO:
ARO: NORBERTO VILLARREAL L.
DISEÑO:
ING. ELVIS GONZALEZ
DIBUJO:
TEC. RMV

REVISION:
ING. RUTILIO VILLARREAL L.
CALCULO:
ING. ELVIS GONZALEZ
CODIGO:
081903-PL-CAN-004-R1

CONTENIDO:
SOLUCION PLUVIAL

ESCALA:
INDICADAS
FECHA:
NOVIEMBRE 2019

HOJA:
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DE:
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