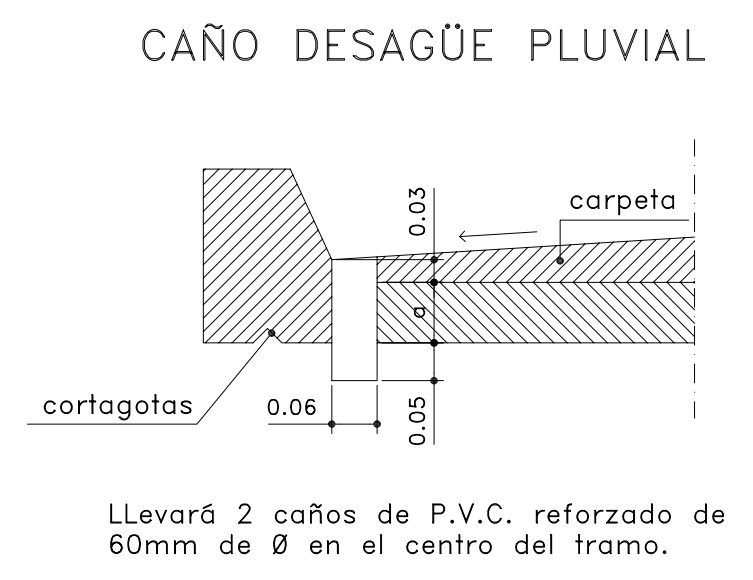
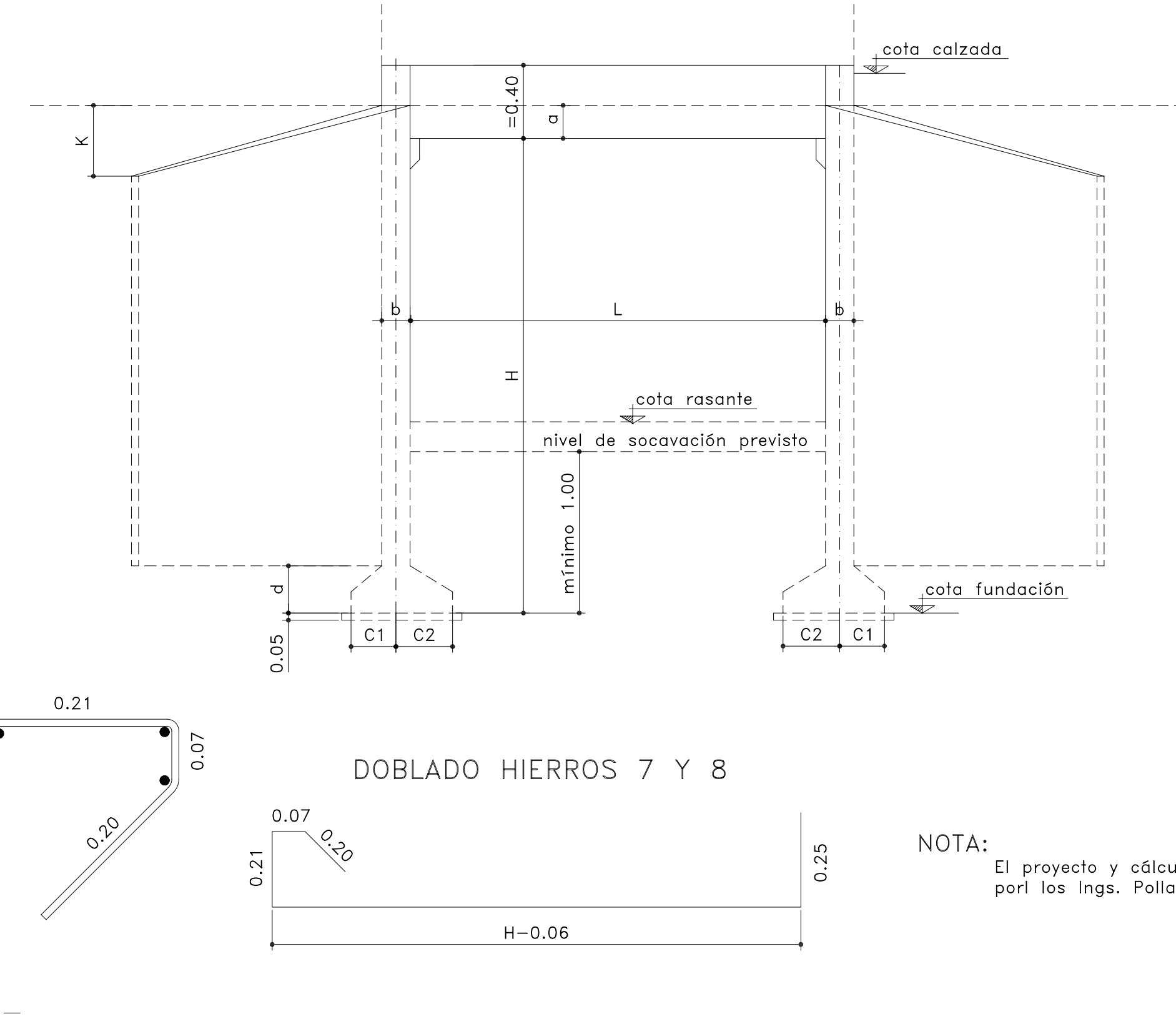
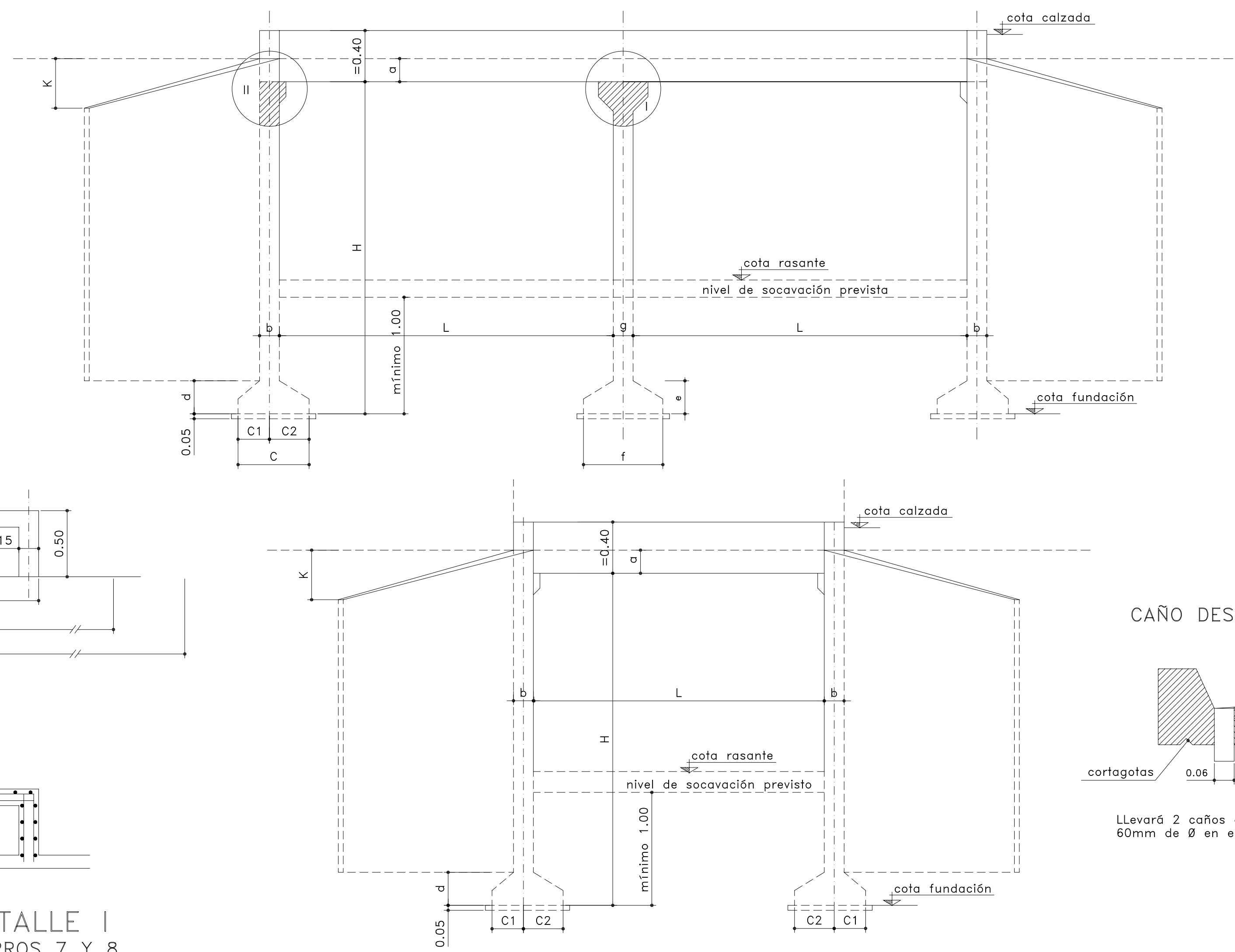
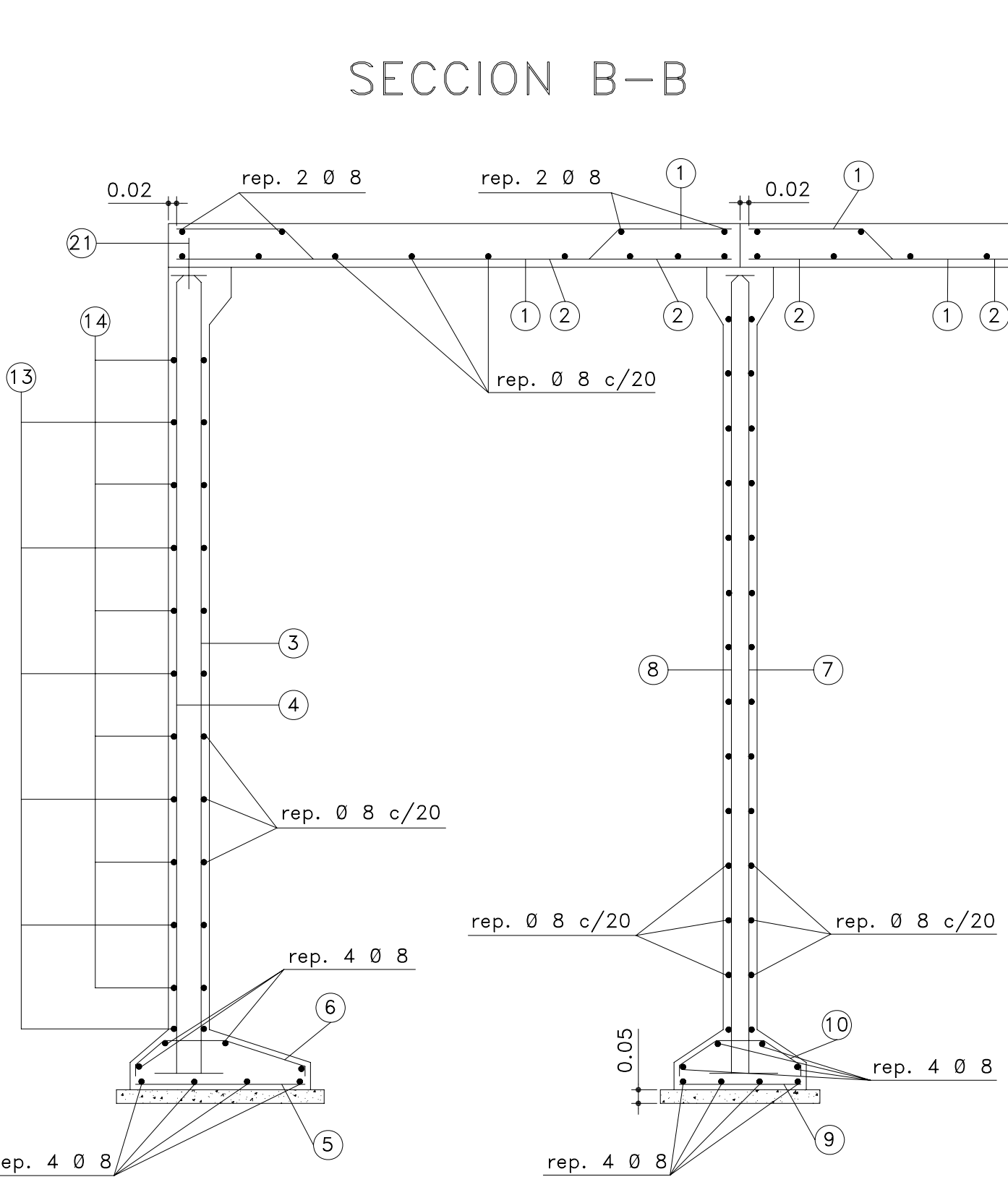
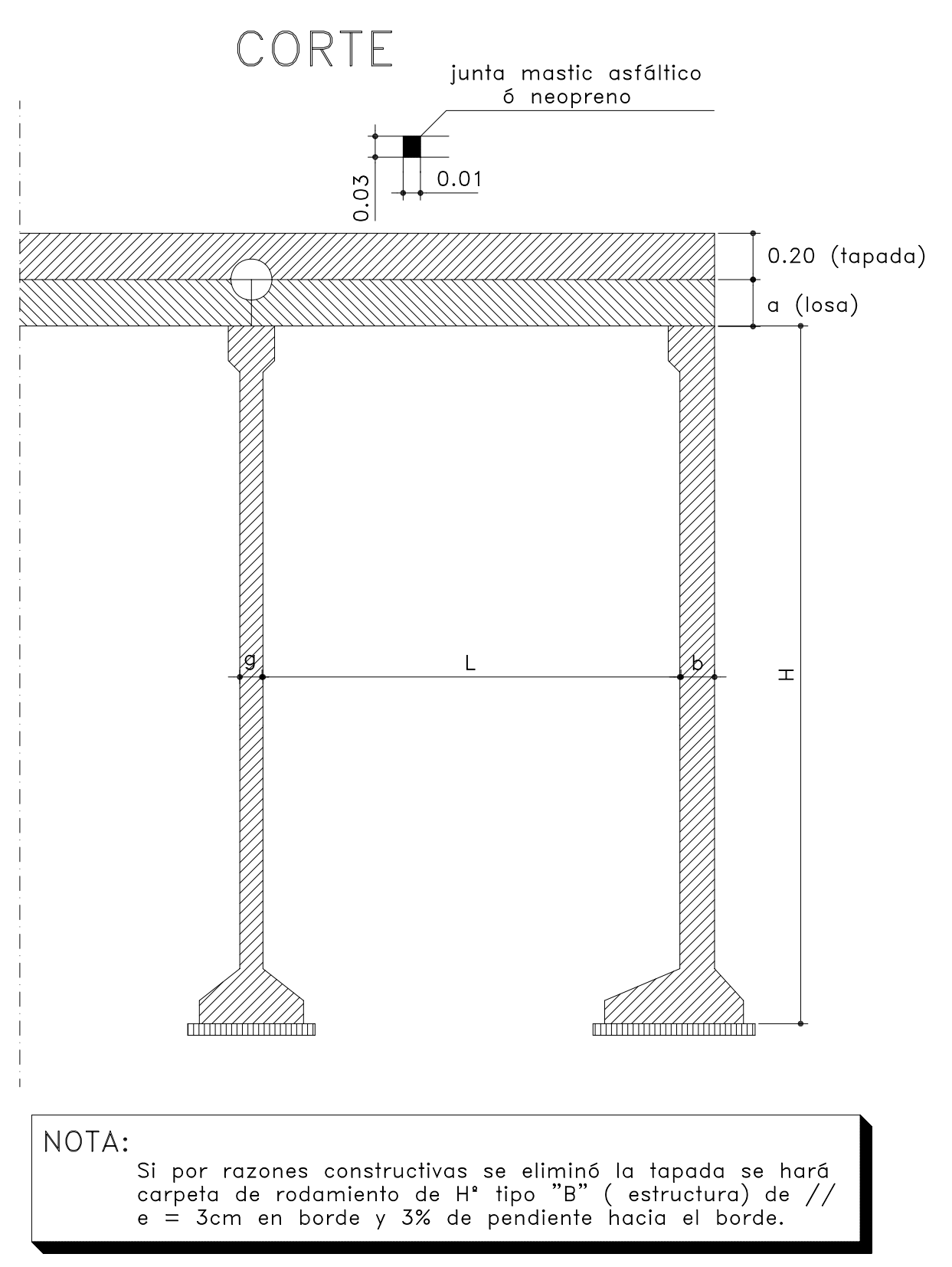




DATOS A FIJAR EN EL PROYECTO
ALCANTARILLA TIPO A2

AC:	(m)
L:	(m)
N° TRAMOS:	(m)
H:	(m)
CON O SIN VEREDA:	(m)
PI:	(m)
RECTA U OBLICUA:	(m)

TIPO DE CARGA
SEGUN NORMA N.B.6 (Brasileña)
CAMION 3.6 T

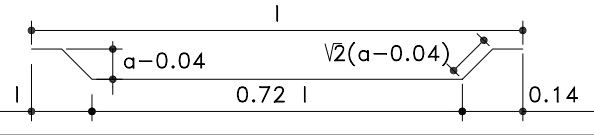
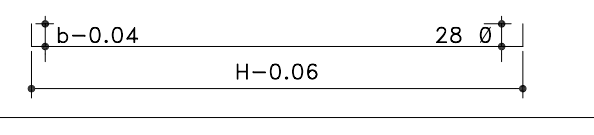
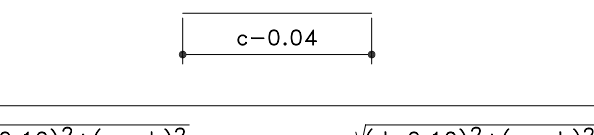
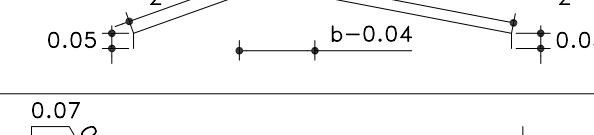
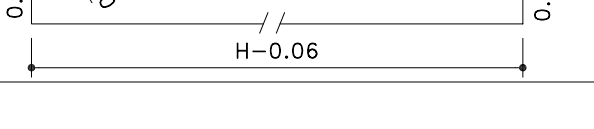
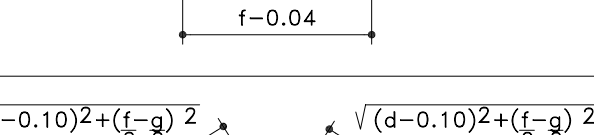
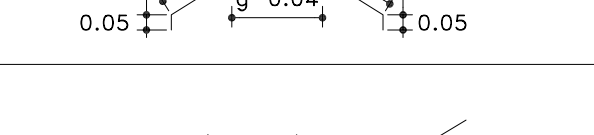
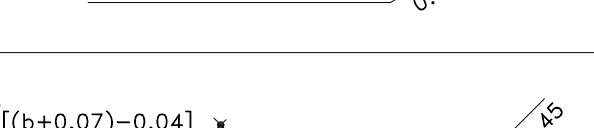
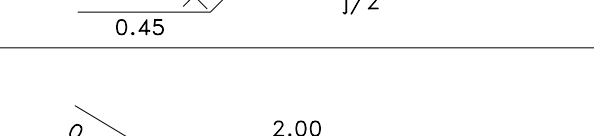
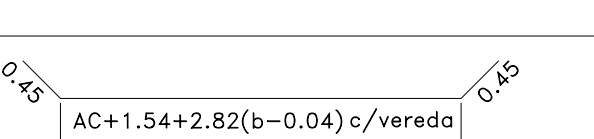
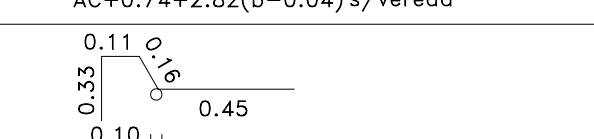
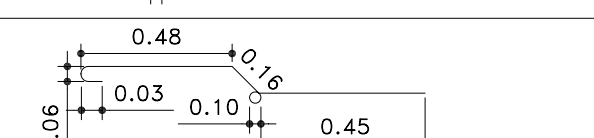
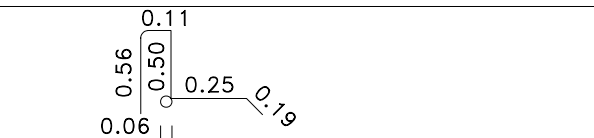
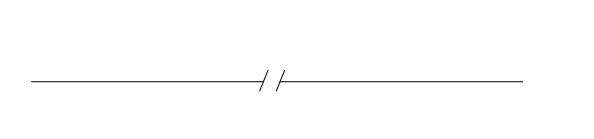
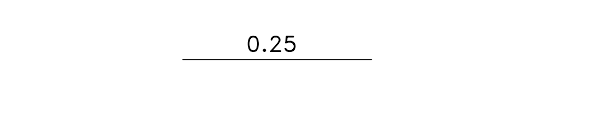
</

LOSA			
barra L (m)	1		
	Ø	S	Ø
2.50	12	28	12
3.00	12	24	12
3.50	12	21	12
4.00	16	35	16
4.50	16	31	16
5.00	16	29	16

Barro h (m)	3 - 4																	
	L=2.50			L=3.00			L=3.50			L=4.00			L=4.50			L=5.00		
	0	S	0	0	S	0	0	S	0	0	S	0	0	S	0	0	S	
2.50	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	
3.00	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	
3.50	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	
4.00	—	—	8	10.5	8	10.5	8	10.5	8	10.5	8	10.5	8	10.5	8	10.5	8	
4.50	—	—	—	—	8	10.5	10	13	12	14	12	14	12	14	12	14	12	
5.00	—	—	—	—	—	—	—	12	13	12	13	12	13	12	13	12	13	
5.50	—	—	—	—	—	—	—	—	—	16	19	16	19	16	19	16	19	
6.00	—	—	—	—	—	—	—	—	—	—	—	—	—	16	17	16	17	

[illegible][illegible]

barra L (m)	15		17	
	0	S	0	S
2.50	8	20	8	20
3.00	8	20	8	20
3.50	8	20	8	20
4.00	8	20	8	20
4.50	8	20	8	20
5.00	8	20	8	20

N°	DOBLADO	LONGITUD TOTAL
1		LT 1 tramo = $L + 2b - 0.04 - 0.83(a - 0.04)$ LT 2 tramos = $2L + 2b + g - 0.09 + 1.60(a - 0.04)$ LT 3 tramos = $3L + 2b + 2g - 0.14 + 2.48(a - 0.04)$
2 16 20		LT 1 tramo = $L + 2b - 0.04$ LT 2 tramos = $2L + 2b + g - 0.09$ LT 3 tramos = $3L + 2b + 2g - 0.14$
3 4		LT = $H + b - 0.10 + 28 \emptyset$ P/H = $2.50 \text{ a } 4.00 \rightarrow 28 \emptyset \approx 0.25$ P/H = $4.50 \text{ a } 5.00 \rightarrow 28 \emptyset \approx 0.35$ P/H = $3.50 \text{ a } 6.00 \rightarrow 28 \emptyset \approx 0.45$
5		LT = $c - 0.04$
6		LT = $\sqrt{(d-0.10)^2 + (c_1-b)^2} + \sqrt{(d-0.10)^2 + (c_2-b)^2}$ LT = $\sqrt{(d-0.10)^2 + (c_1-b)^2} + (b-0.04) + \sqrt{(d-0.10)^2 + (c_2-b)^2} + 0.10$
7 8		LT = $H + 0.67$
9		LT = $f - 0.04$
10		LT = $2 \sqrt{(d-0.10)^2 + (f-g)^2} + (g+0.06)$
11		LT = $f + (b-0.07) + 0.45$
12		LT = $1.41 \left[\left(\frac{b+0.07}{2} - 0.04 \right) + \frac{1}{2} + g + 0.90 \right]$
13		LT = 2.45
14		LT c/vereda = $AC + 2.34 + 2.82(b-0.04)$ LT s/vereda = $AC + 0.74 + 2.82(b-0.04) + 0.90$
15		LT = $1.36 \left(\frac{s}{s/vereda} \right)$
17		LT = $1.53 \left(\frac{c}{c/vereda} \right)$
18		LT = 1.80
19		LT 1 tramo = $L + 2b - 0.04$ LT 2 tramos = $(L + b + g/2) \cdot 2 - 0.09$ LT 3 tramos = $(L + b + g/2) \cdot 2 + 1 + g - 0.14$
21		I = 0.25

NOTA:
El proyecto y cálculo fue realizado
por los Ings. Polla - Salvay

PROVINCIA DE SANTA FE MINISTERIO DE AGUAS, SERVICIOS PÚBLICOS Y MEDIO AMBIENTE DIRECCIÓN PROVINCIAL DE DRENAJES Y RETENCIONES			
MINISTRO: Arq. Antonio Ciancio SECRETARIO DE AGUAS: Ing. Hugo Ordoñez SUBSECRETARIO DE DESARROLLO HÍDRICO: Ing. Antonio Mendi DIRECTOR PROVINCIAL DRENAJES Y RETENCIONES: Ing. Alberto Mendi JEFES DE OFICINA, PROYECTOS: Ing. Leonardo Rodríguez APORTE TÉCNICO:		PROYECTO: OBRAS DE ARTE CANAL VILA-CULULÚ Y TRIBUTARIOS PROTECCIONES DE FONDO Y ALICANTARRILLAS NUEVAS DPTO. CASTELLANOS-PSA, DE SANTA FE ALCANTARRILLA N°A ESCO A2 (DPHO)	
FECHA DICIEMBRE 2010		ESCALA S/ ESCALA	
		PLANO N° 9	