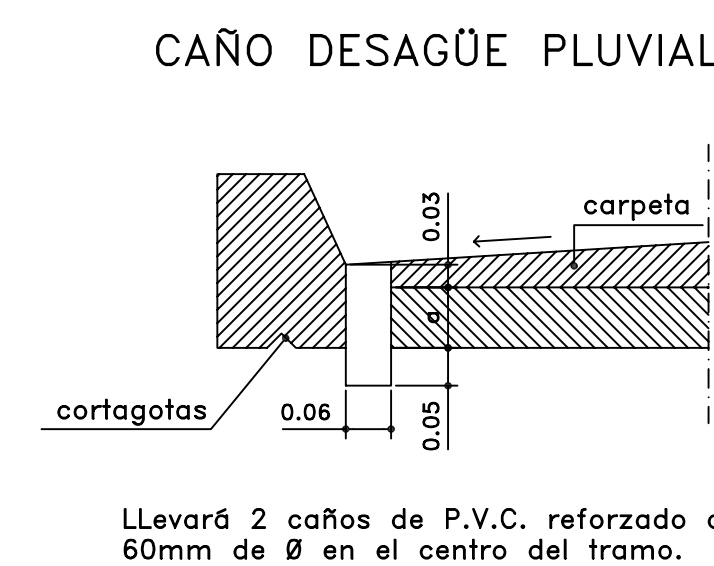
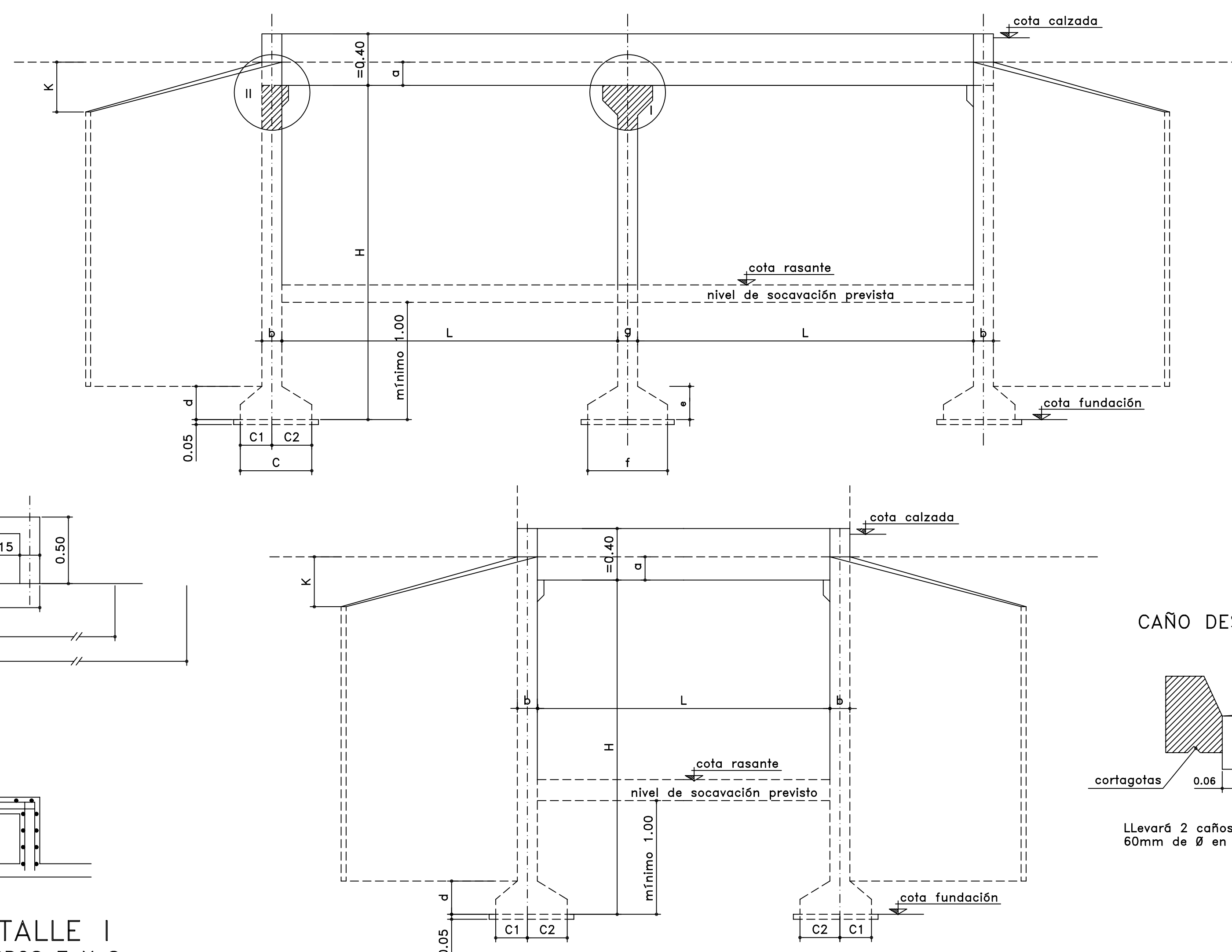
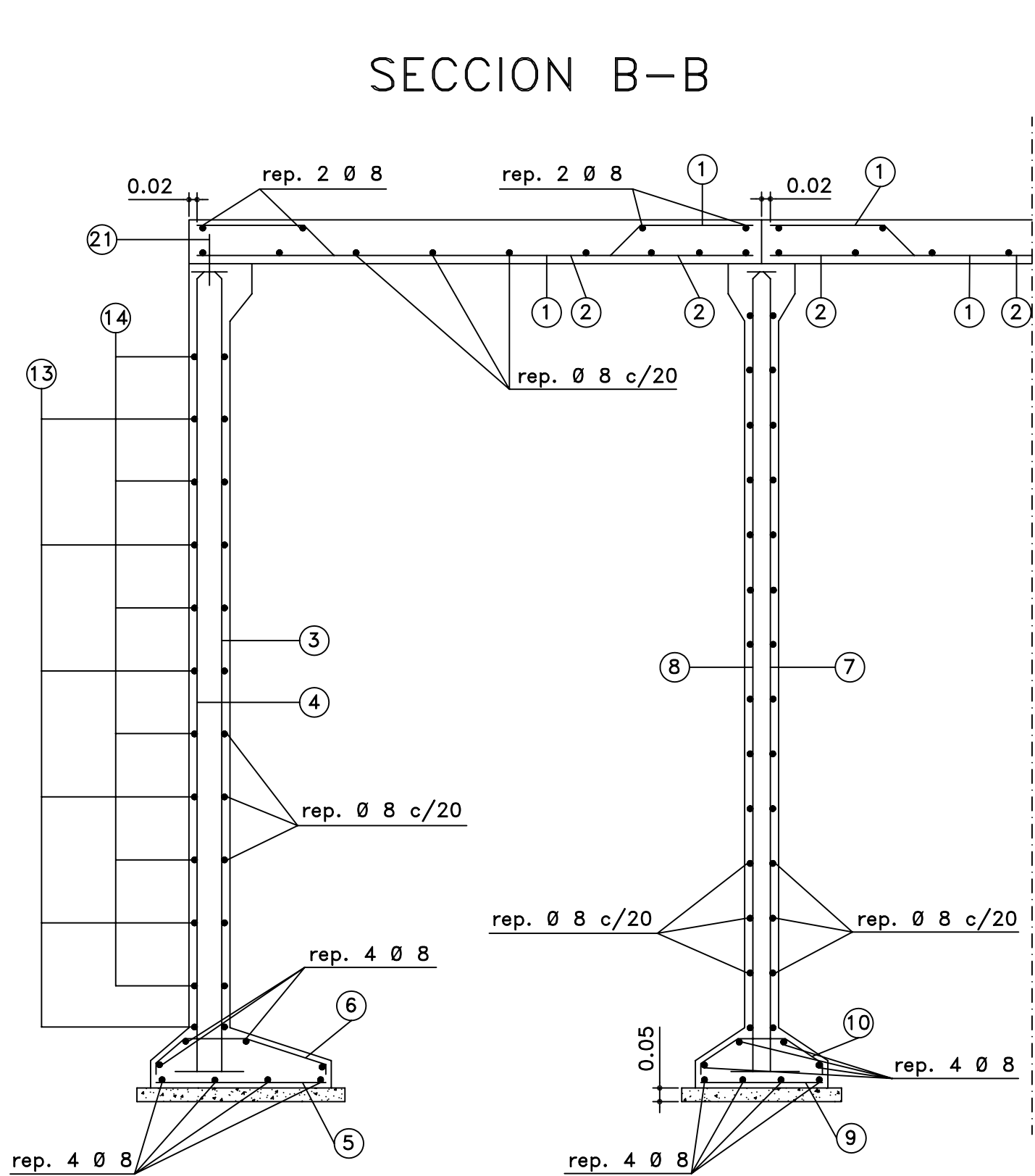
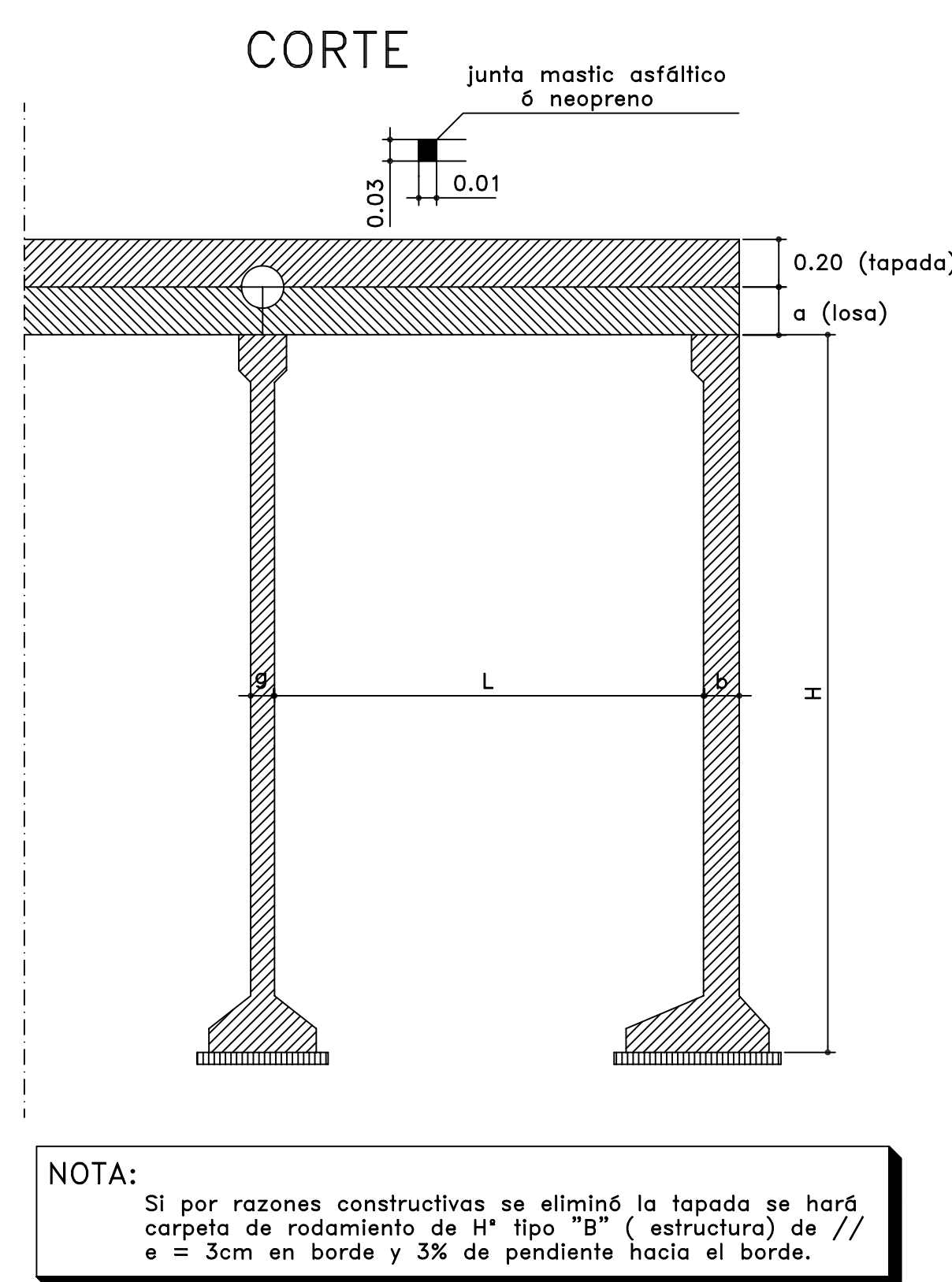




DIMENSIONES																																							
H	b	e	K (cm)				C (cm)				C1 (cm)				d (cm)				f (m)				j	m					l	a									
(m)	(cm)	(mm)	2.3	1.2	1.3	1.4	2.503	0.05	504.004	4.505	0.02	503.005	504.004	4.505	0.02	503.005	504.004	4.505	0.02	503.005	504.004	4.505	0.02	503.005	504.004	4.505	0.02	503.005	504.004	4.505	0.02	(m)	(cm)						
2.50	15	25	15	25	15	25	0.940	710	480	36	55	70	75	75	80	90	25	30	35	35	45	25	25	25	25	25	25	25	25	55	65	70	80	85	90	2.00	0.84	2.50	107
3.50	15	25	15	25	15	25	0.940	710	480	36	65	75	75	80	80	100	25	30	30	35	35	45	25	25	25	25	25	25	25	60	70	80	85	95	2.00	1.20	3.50	119	
3.50	15	25	15	25	15	25	0.940	710	480	36	70	80	80	85	90	105	25	30	30	35	35	45	25	25	25	25	25	25	25	60	70	80	85	95	2.00	1.56	3.50	122	
4.00	16	25	15	1.060	800	540	40	—	—	85	90	95	95	110	—	30	30	35	35	45	—	25	25	25	25	30	—	70	70	80	85	95	2.25	1.92	4.00	204			
4.50	20	25	15	1.180	890	590	44	—	—	110	110	125	125	—	—	35	35	35	45	—	—	30	30	35	35	—	—	75	80	90	95	2.50	2.40	4.50	262				
5.00	22	25	15	1.180	890	590	44	—	—	—	135	135	140	—	—	40	40	45	—	—	—	35	35	35	—	—	—	85	90	95	2.50	2.62	5.00	277					
5.50	26	25	15	1.300	980	640	48	—	—	—	150	160	—	—	—	45	50	—	—	—	—	—	40	40	—	—	—	—	90	95	2.75	3.12	5.50	326					
6.00	29	25	15	1.300	980	640	48	—	—	—	—	180	—	—	—	60	—	—	—	—	—	—	45	—	—	—	—	—	—	100	2.75	3.50	6.00	375					

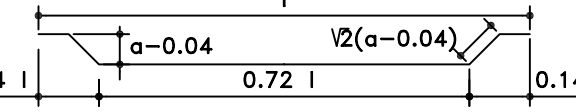
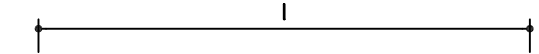
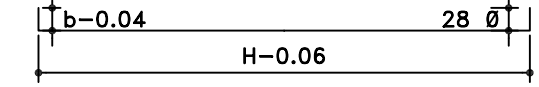
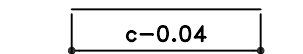
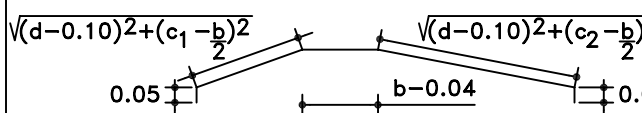
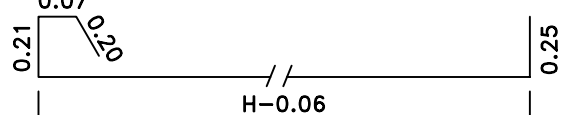
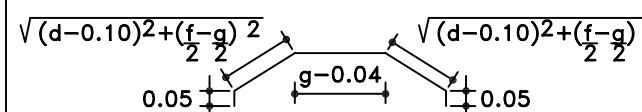
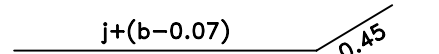
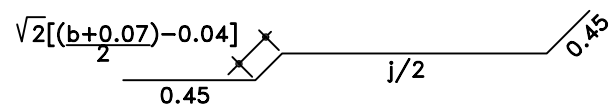
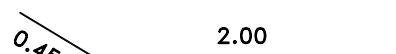
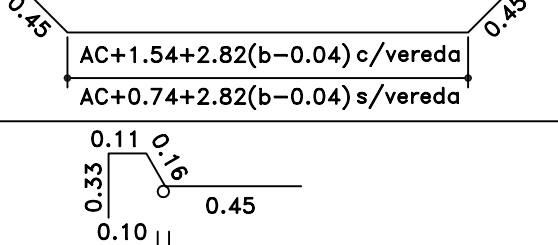
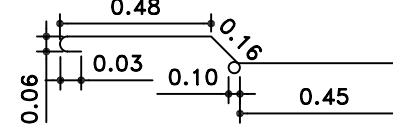
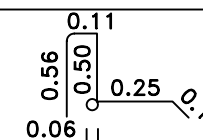
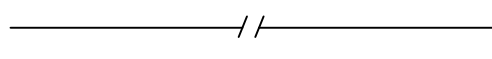
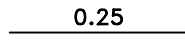
OBSERVACIONES: Por razones de índole constructiva se establece valor mínimo para el ancho de estribo (b=0.15).
El ancho de la pila para todos los casos será g=0.15.

[illegible]

barra n°	5		6		7		8		9										10		11		12		13		14		21			
	Ø	S	Ø	S	Ø	S	Ø	S	L=2,50		L=3,00		L=3,50		L=4,00		L=4,50		L=5,00		Ø	S	Ø	S	Ø	S	Ø	S				
									Ø	S	Ø	S	Ø	S	Ø	S	Ø	S	Ø	S									Ø	S	Ø	S
2,50	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20				
3,00	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	17,5	8	20	8	36	8	36	8	36	10	15		
3,50	8	17	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	20	8	17,5	8	20	10	37	10	37	10	37	10	37	10	15
4,00	10	17	8	20	8	20	8	20	—	—	8	20	8	20	8	20	8	20	8	17	8	20	12	37	12	37	12	37	12	37	10	15
4,50	10	15,5	8	20	8	20	8	20	—	—	—	—	8	20	8	20	8	20	8	17	8	20	12	29	12	29	12	29	12	29	10	15
5,00	12	17	8	20	8	20	8	20	—	—	—	—	—	8	20	8	20	8	17	8	20	12	25	12	25	12	25	12	25	10	15	
5,50	12	14,5	8	20	8	20	8	20	—	—	—	—	—	—	8	20	8	16,5	8	20	16	37	16	37	16	37	16	37	16	37	10	15
6,00	16	23	8	20	8	20	8	20	—	—	—	—	—	—	—	8	15	8	20	16	35	16	35	16	35	16	35	16	35	10	15	

CORDON VEREDA

guarda rueda	par columna	par baranda	par vereda
16	18	19	20
cant. Ø	cant. Ø	cant. Ø	cant. Ø
2 8	2 8	6 12	3 8

DOBLADO		LONGITUD TOTAL
N°		
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		LT 1 tramo = $L+2b-0.04$ LT 2 tramos = $2L+2b+g-0.09$ LT 3 tramos = $3L+2b+2g-0.14$
20		
3		$\frac{P}{H} = \frac{H+b-0.10+28 \ g}{2.50 \ a \ 4.00 \rightarrow 28 \ g \approx 0.25}$ $\frac{P}{H} = \frac{4.50 \ a \ 5.00 \rightarrow 28 \ g \approx 0.35}{3.50 \ a \ 6.00 \rightarrow 28 \ g \approx 0.45}$
4		
5		LT = c - 0.04
6		$LT = \sqrt{(d-0.10)^2+(c_1-0.04)^2} + \sqrt{(d-0.10)^2+(c_2-0.04)^2} + 0.10$
7		
8		LT = H + 0.67
9		
10		$LT = 2 \sqrt{(d-0.10)^2+(f/2)^2} + (g+0.06)$
11		LT = j+(b-0.07)+0.45
12		$LT = 1.41[(b+0.07)-0.04]+j+0.90$
13		LT = 2.45
14		LT c/vereda = $AC+2.54+2.82(b-0.04)$ LT s/vereda = $AC+0.74+2.82(b-0.04)+0.90$
15		LT = 1.36 (c/vereda)
17		LT = 1.53 (c/vereda)
18		LT = 1.80
19		LT 1 tramo = $L+2b-0.04$ LT 2 tramos = $(L+b+g/2).2-0.09$ LT 3 tramos = $(L+b+g/2).2+L+g-0.14$
21		I = 0.25

DATOS A FIJAR EN EL PROYECTO

ALCANTARILLA TIPO A2

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

TIPO DE CARGA

SEGUN NORMA N.B.6 (Brasileña)

CAMION 3.6 T

PROVINCIA DE SANTA FE MINISTERIO DE AGUAS, SERV. PUBLICOS Y MEDIO AMBIENTE SECRETARIA DE AGUAS			
SUBSECRETARIA DE PLANIFICACIÓN Y GESTIÓN		ORBRA: PROTECCIÓN URBANA CONTRA INUNDACIONES PLUVIALES	
SUBSECRETARIO: ING. RICARDO GARCOSA		LOCALIDAD DE NELSON DEPARTAMENTO LA CAPITAL	
DIRECCIÓN PROV. DE PROTECCIÓN URBANA CONTRA INUNDACIONES		PLANO TIPO ALICANTARILLA TIPO A2 RECTA (M.A.H)	
PROYECTO TECNICO: ING. WISNET MARRA (ING. REYNA JORDELINA ALIC. SANCHEZ SERGIO / ING. SERGIO ROJAS TEC. MARTIN ENRIQUE			
FECHA: AGOSTO 2010		ESCALA:	PLANO Nº: 12

0.25

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