

CONSEJO FEDERAL DE INVERSIONES



ESTABLECIMIENTO DEPURADOR CLOACAL

EN SAN CARLOS DE BARILOCHE

INFORME FINAL

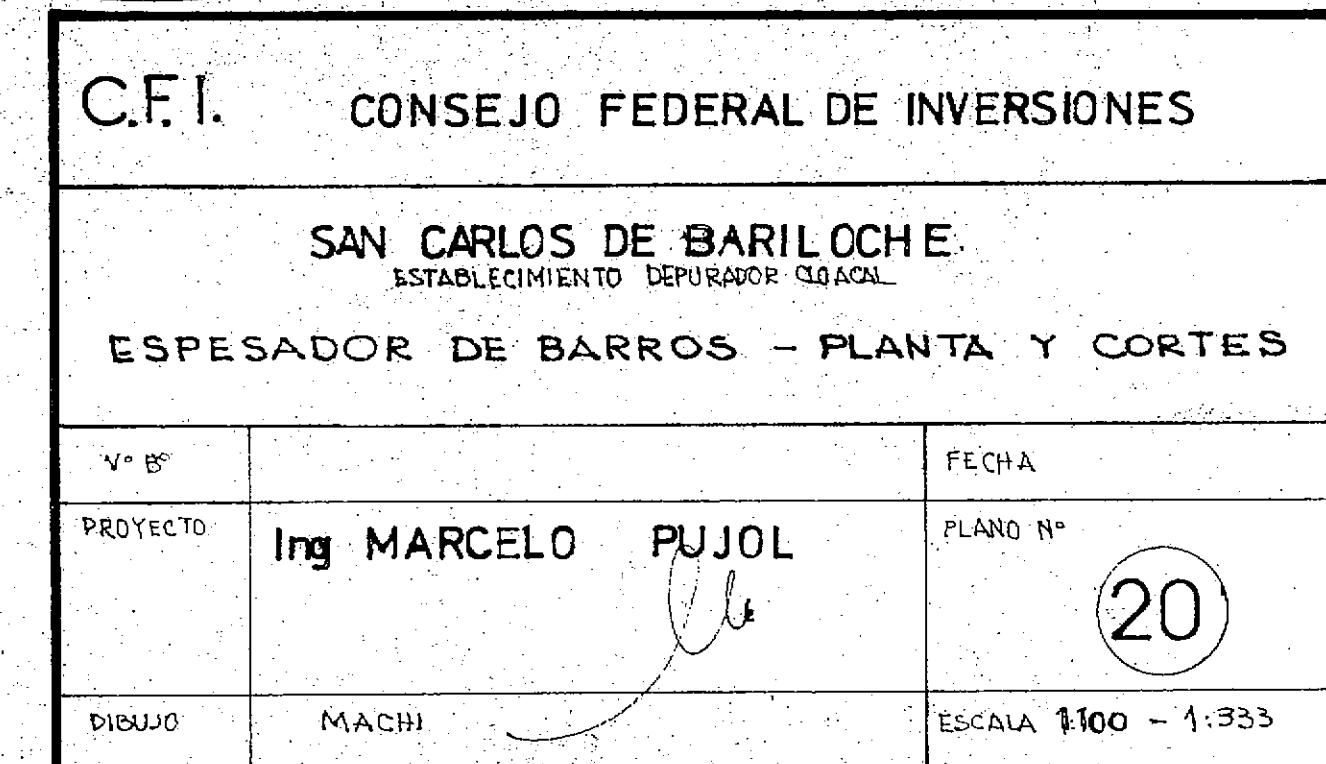
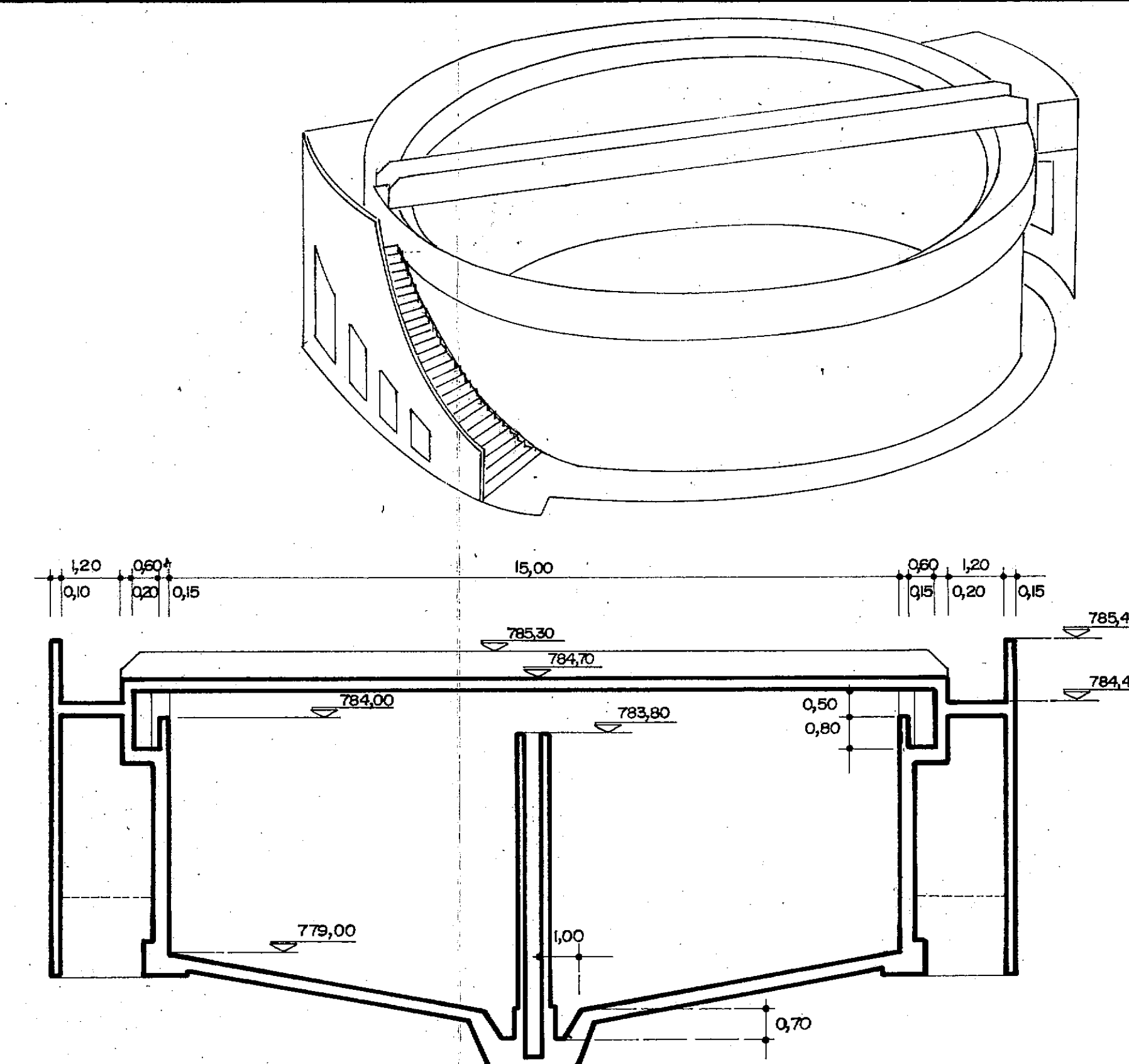
TOMO III

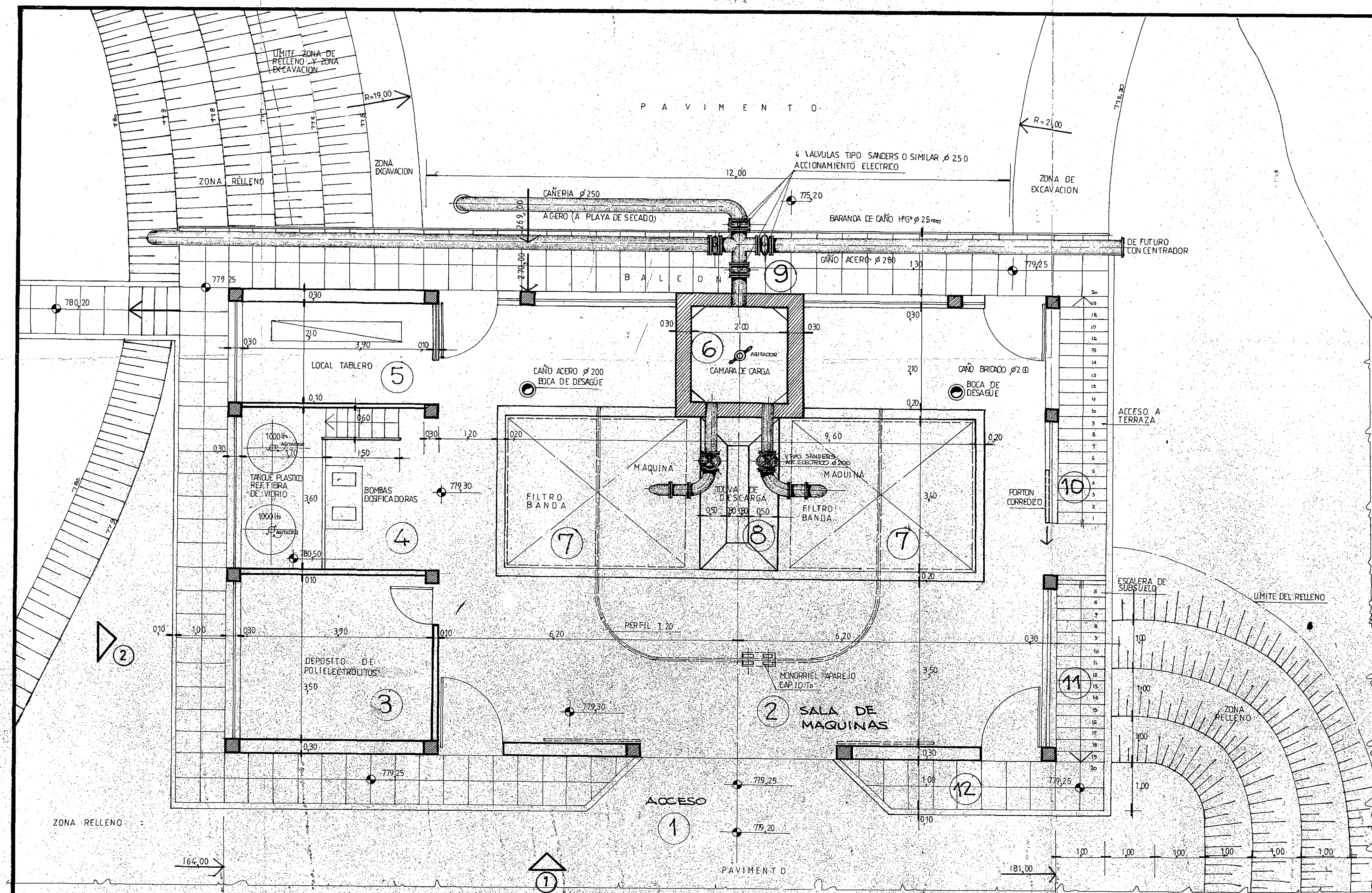
EXPERTO: MARCELO J. PUJOL

1991

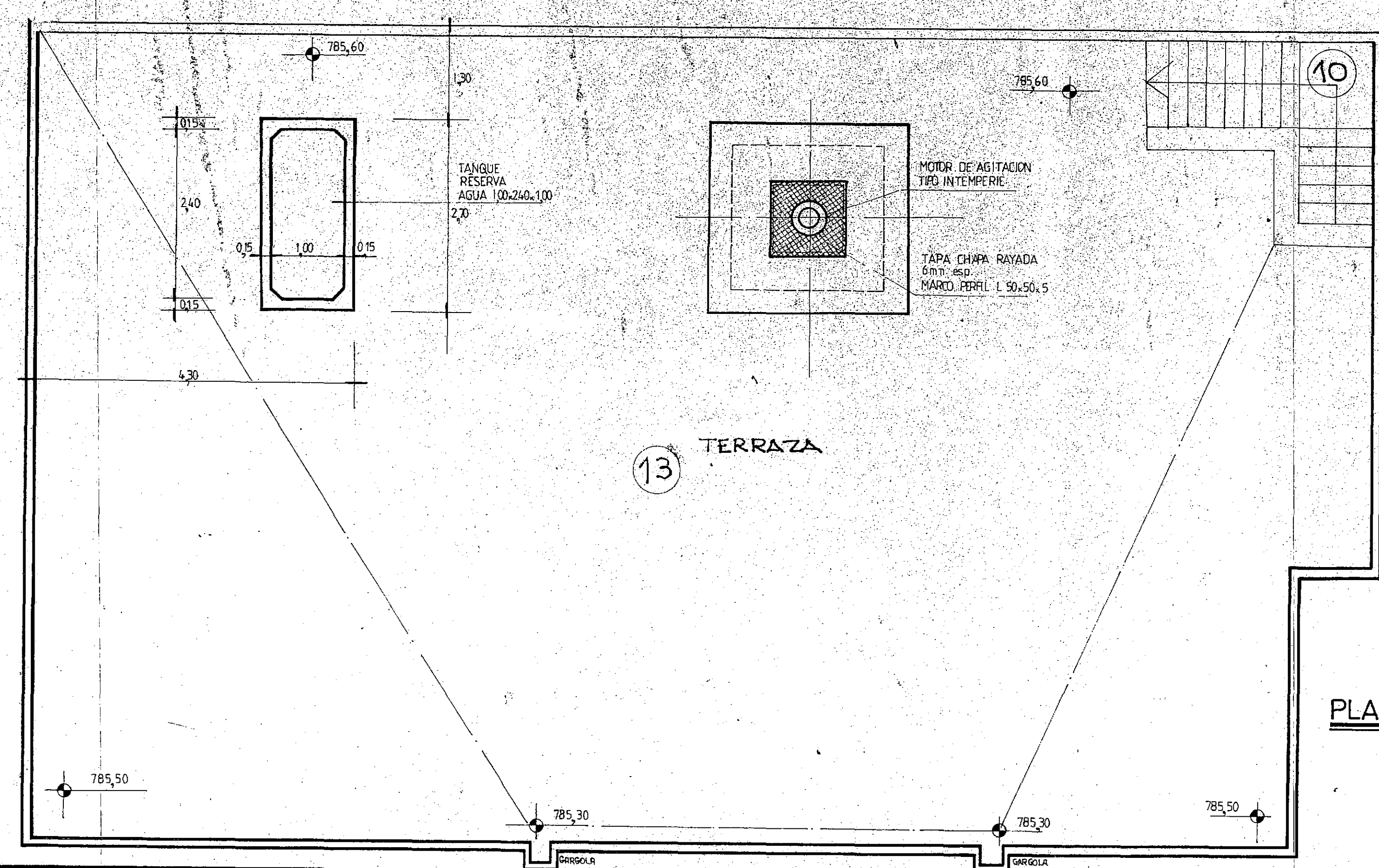
0 / F 331.9
P 324

IX

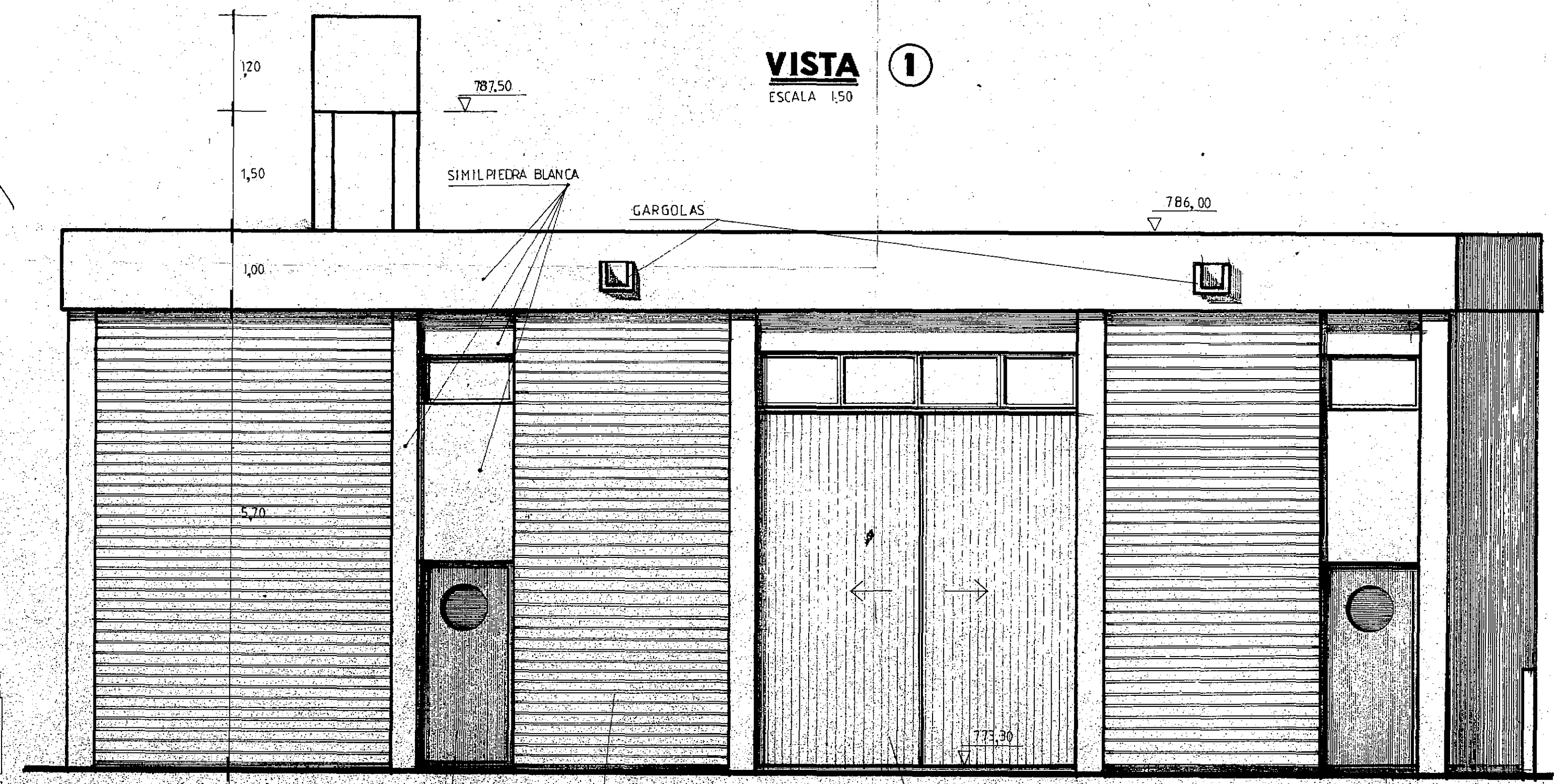




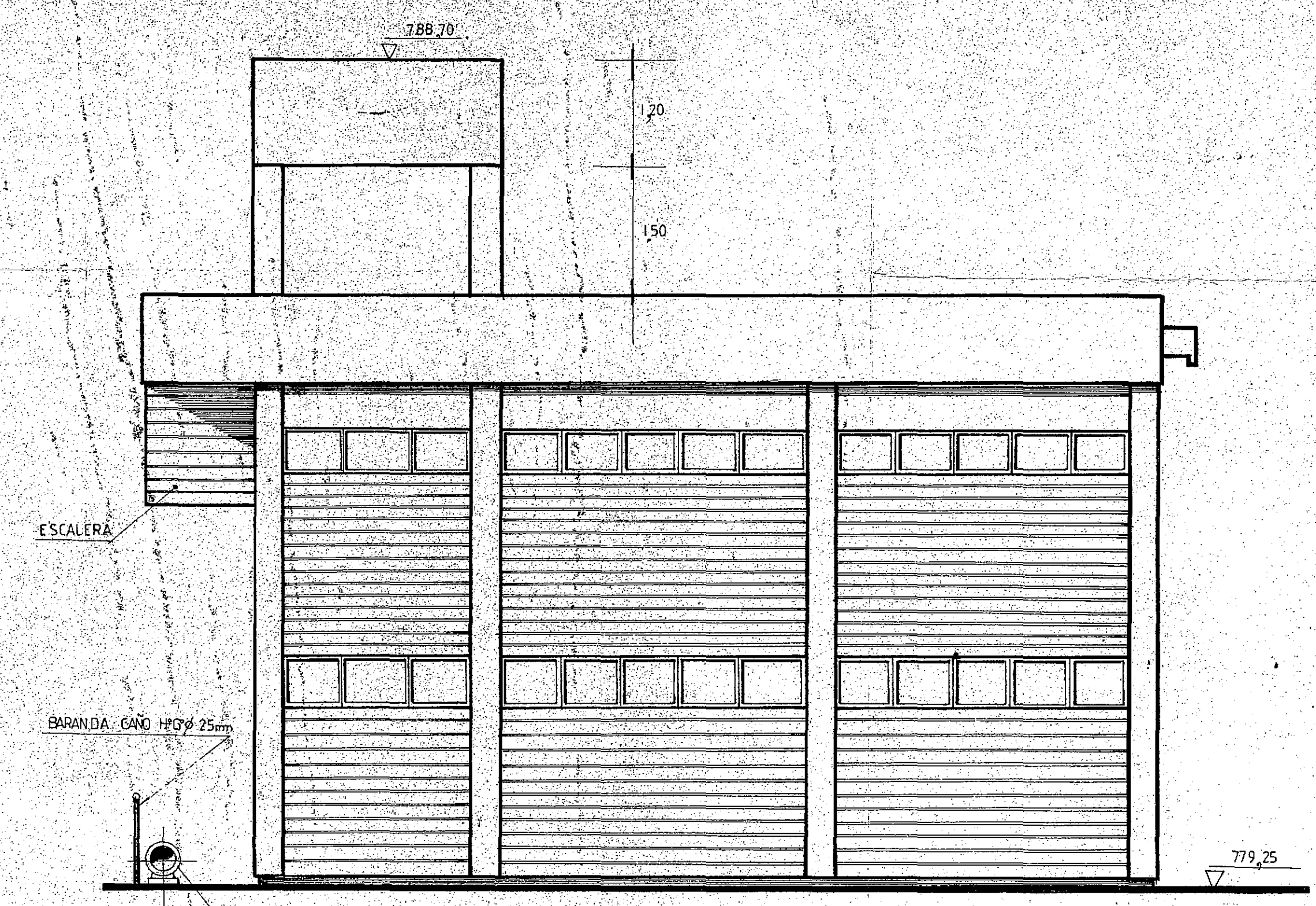
PLANTA NIVEL MAQUINAS



PLANTA NIVEL TERRAZA

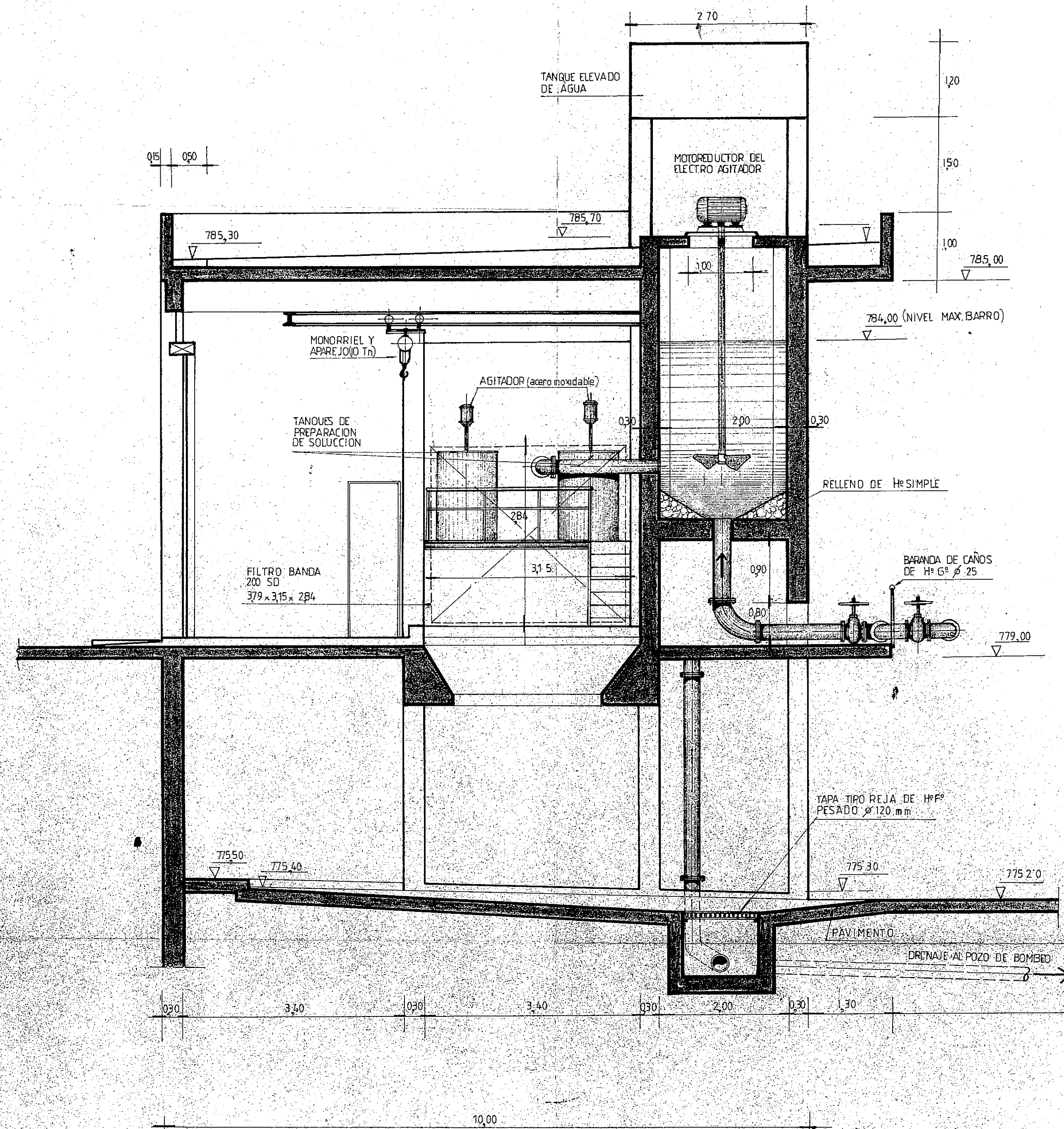
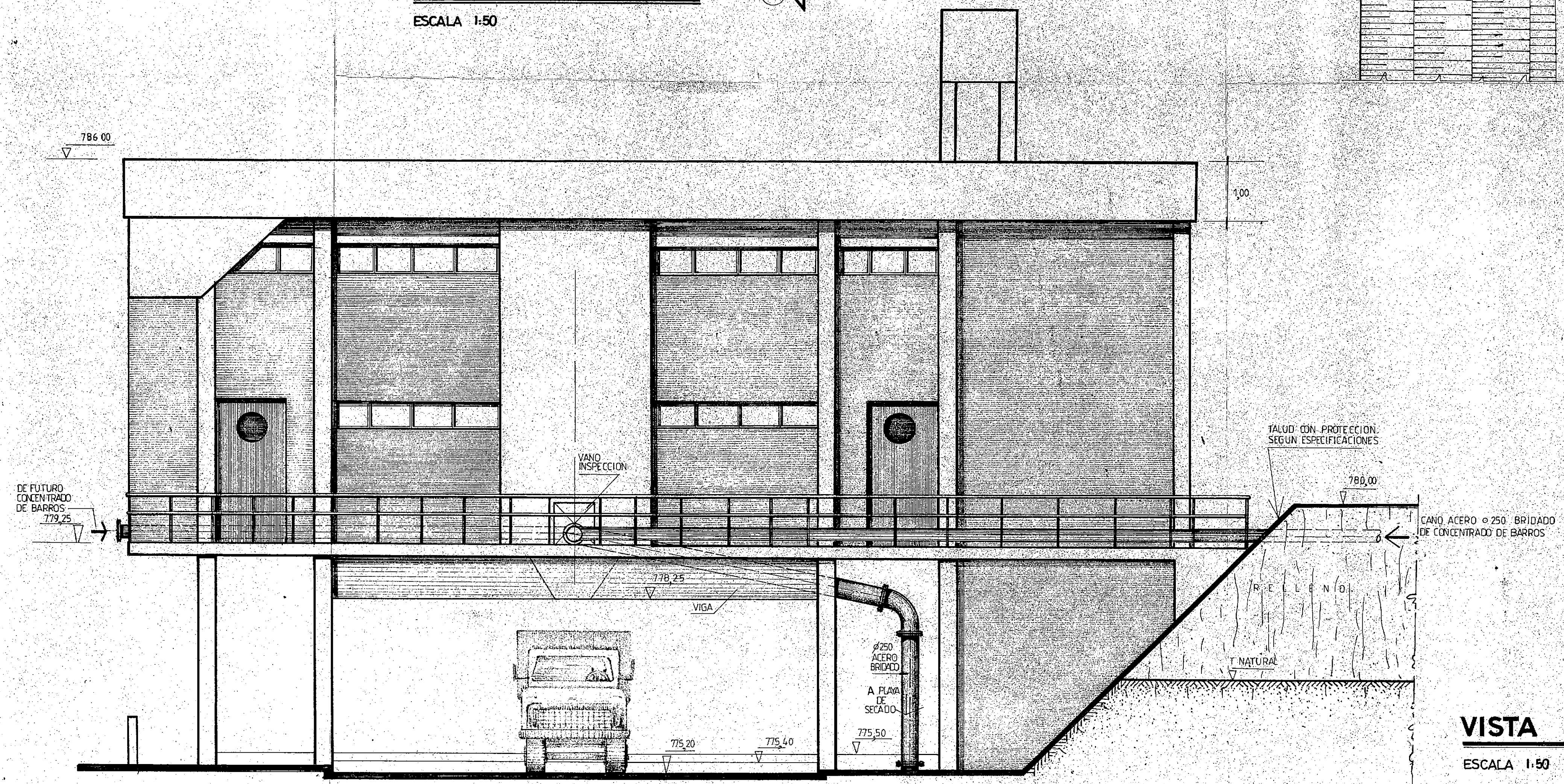
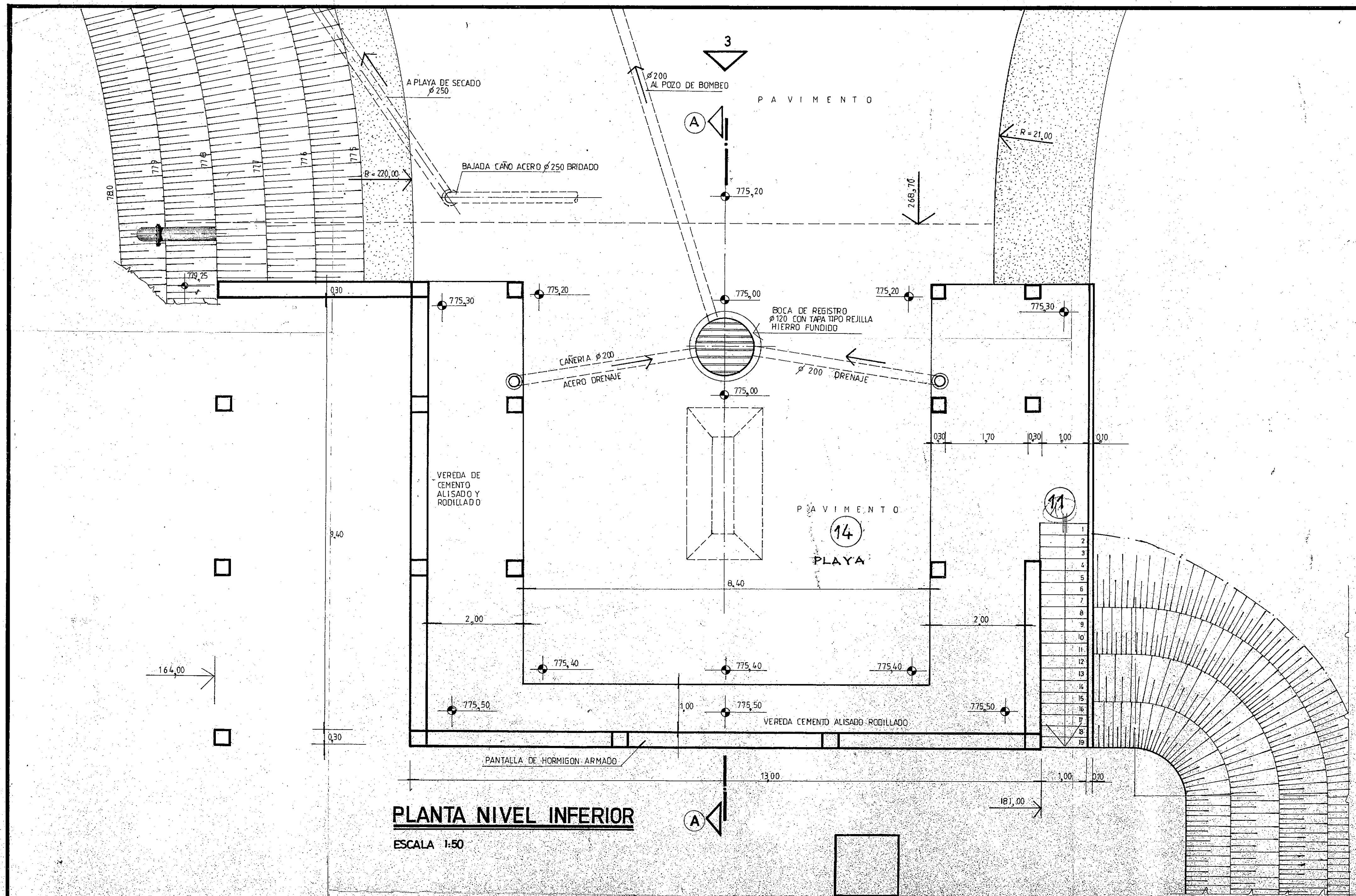


VISTA 1
ESCALA 1:50



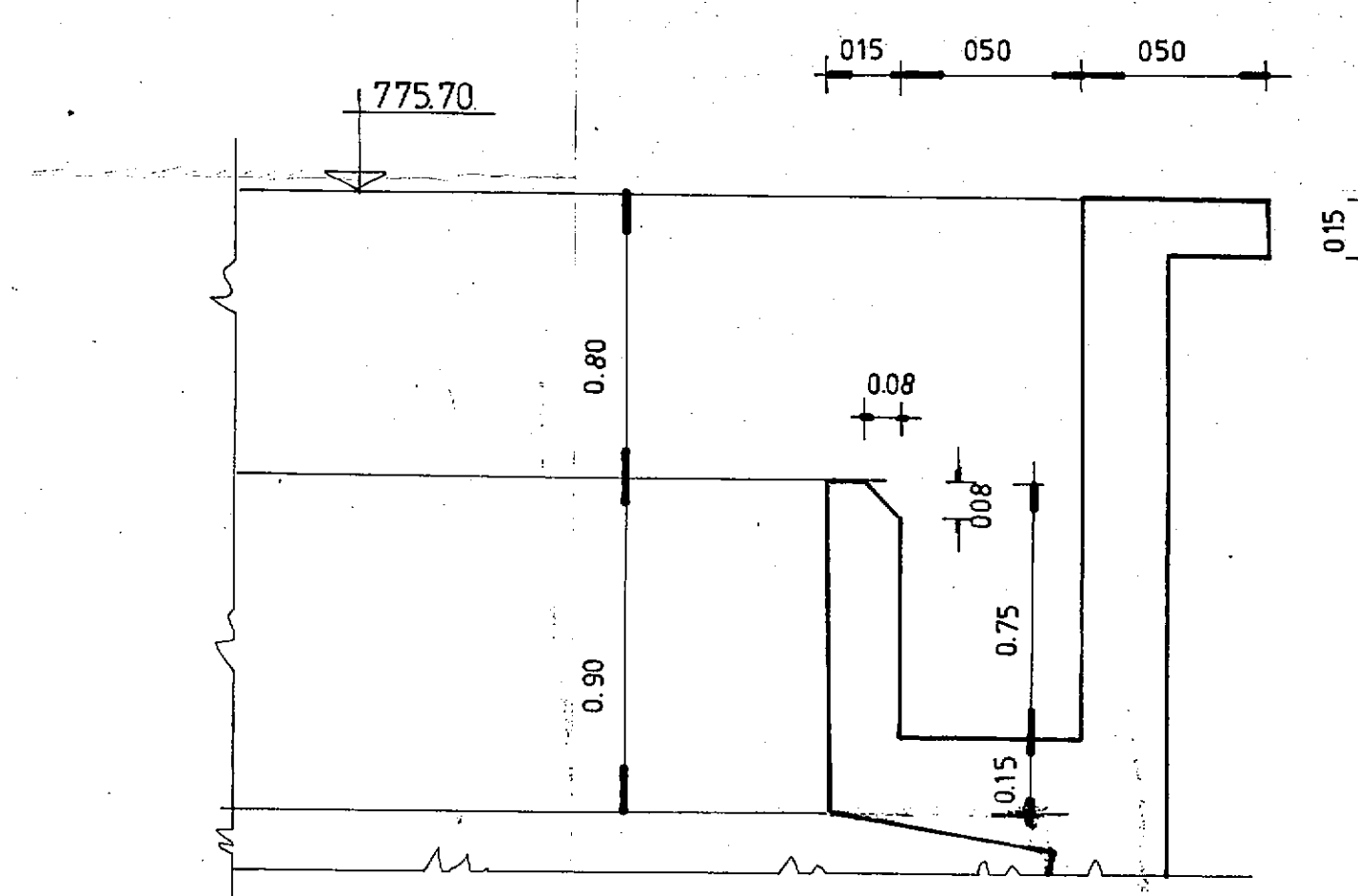
VISTA 2
ESCALA 1:50

CFI CONSEJO FEDERAL DE INVERSIONES		
SAN CARLOS DE BARILOCHE ESTABLECIMIENTO DEPURADOR CLOACAL ESTACION DE DESHIDRATACION MECANICA PLANTA NIVEL MAQUINAS Y VISTAS		
VISTAS	PROYECTO	FECHA
	Ing. MARCELO PUJOL	
DIBUJANTE	A. DE LA SERNA	PLAN O N°
		21
		ESCALA 1:50



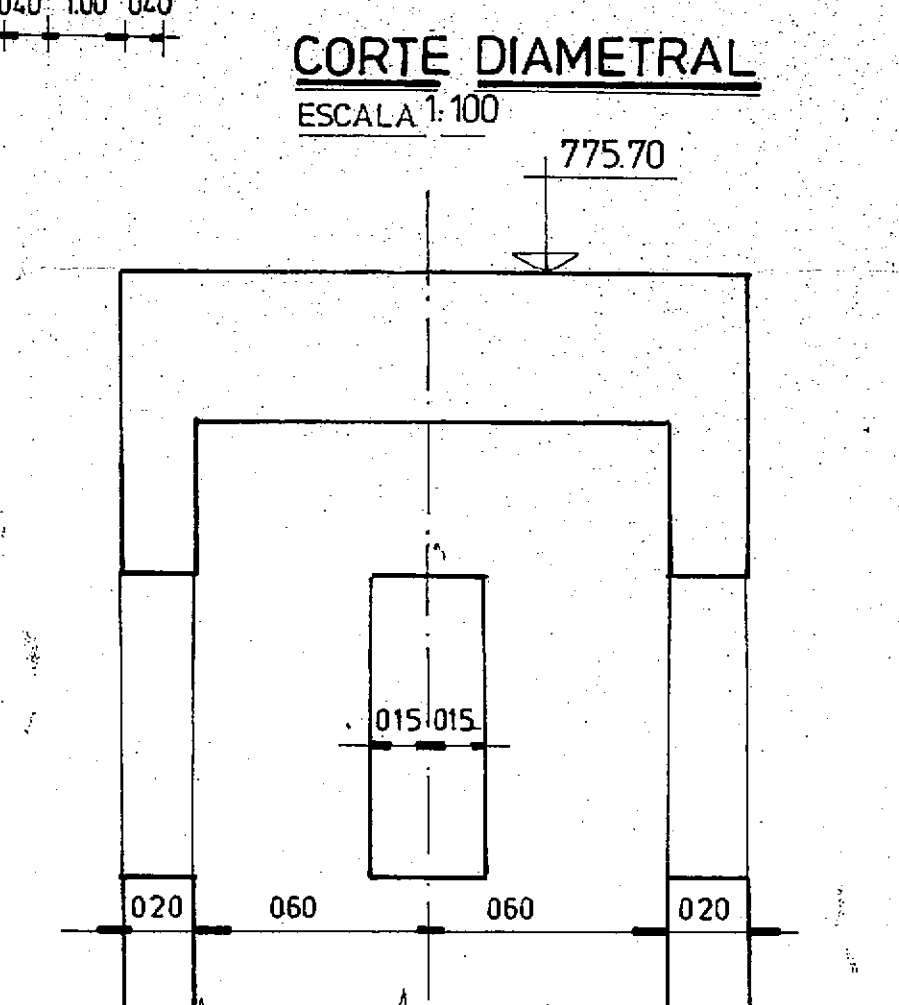
CFI CONSEJO FEDERAL DE INVERSIONES		
SAN CARLOS DE BARILOCHE ESTABLECIMIENTO DEPURADOR LOCAL		
ESTACION DE DESHIDRATACION MECANICA PLANTA NIVEL INFERIOR Y CORTES		
PROYECTO	Ing. MARCELO PUJOL	FECHA
DISEÑO	A. DE LA SERENA	PLANO N° 22
		ESCALA 1:50

SEDIMENTADOR

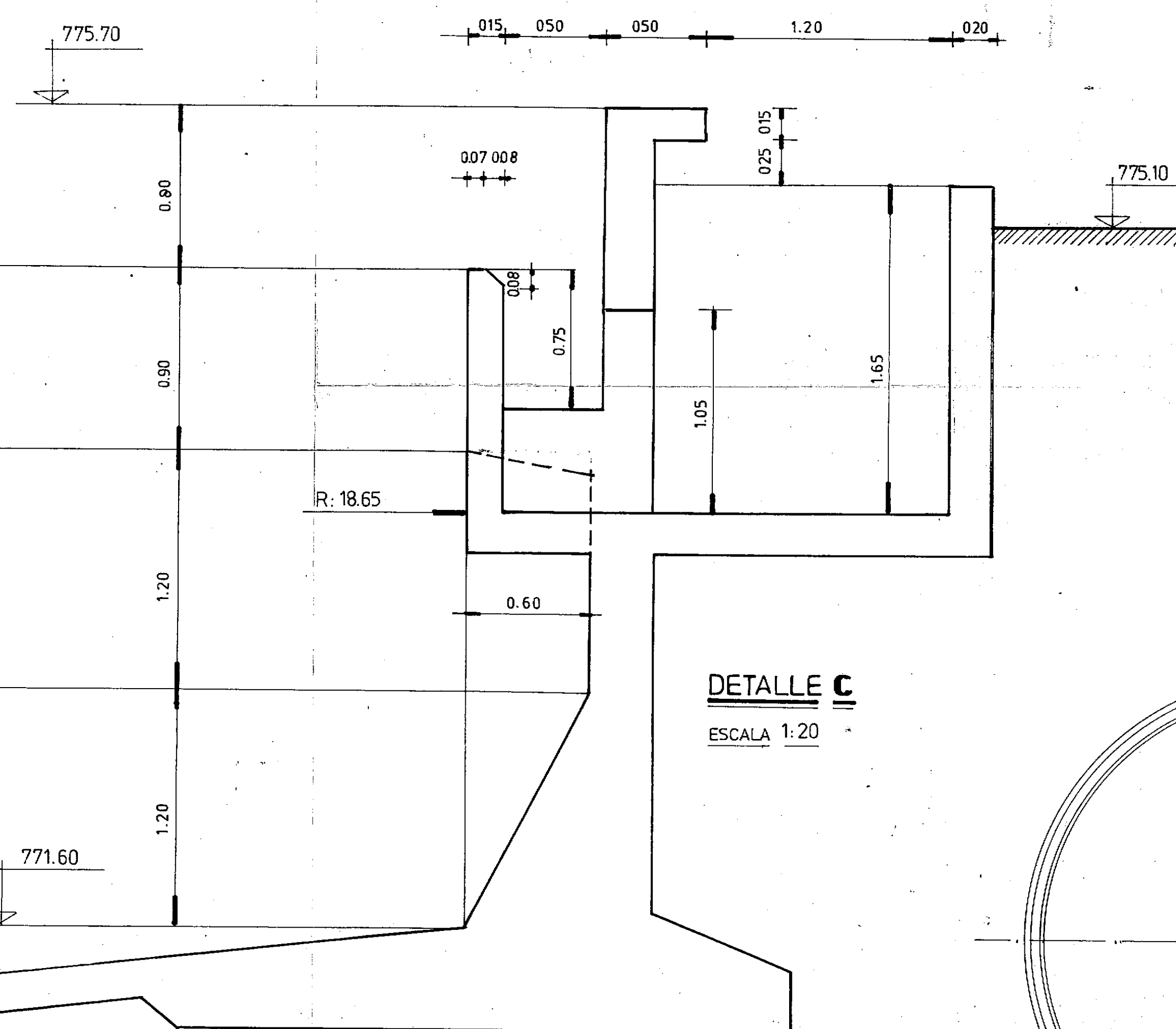


DETALLE A

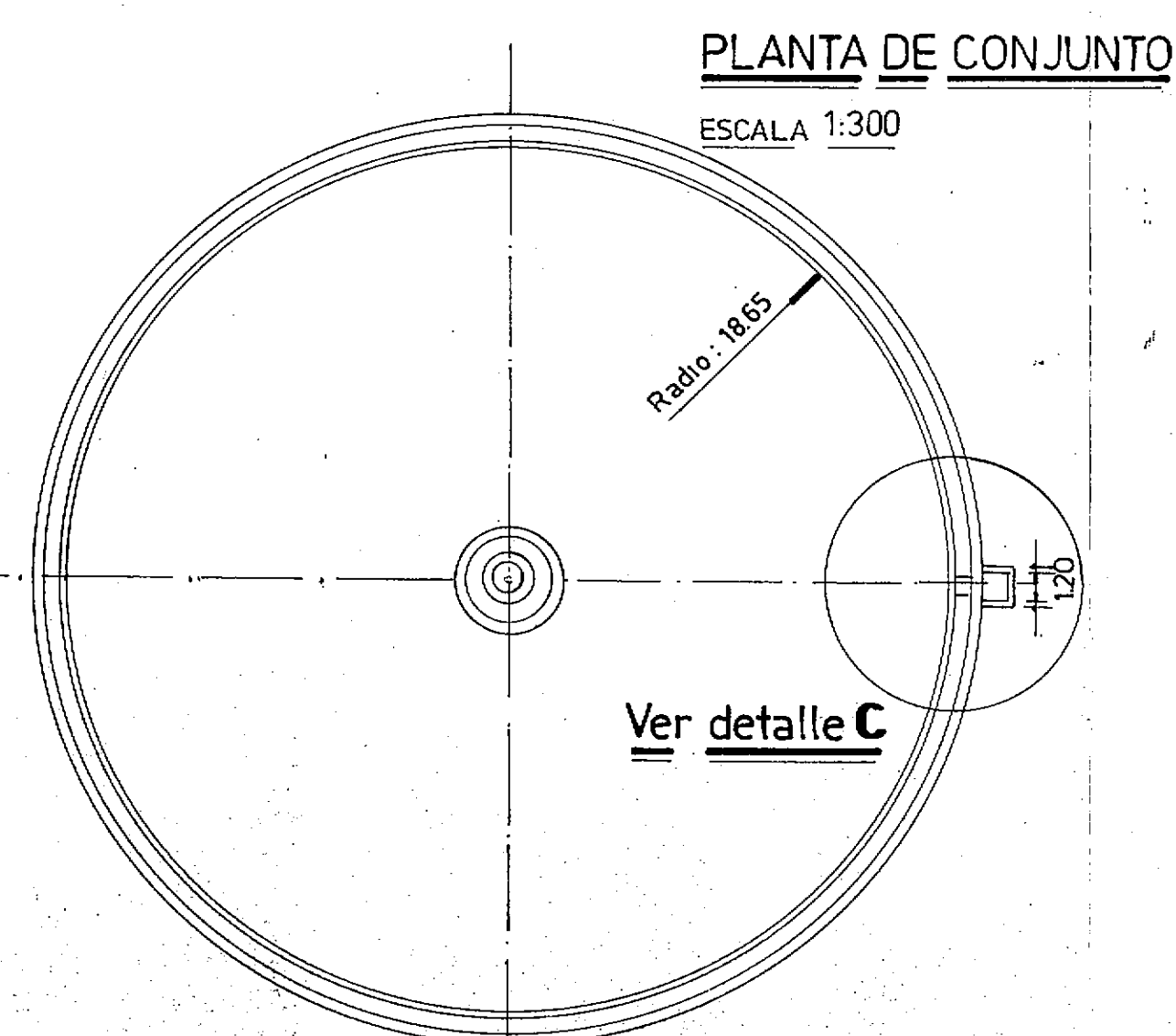
ESCALA 1:20



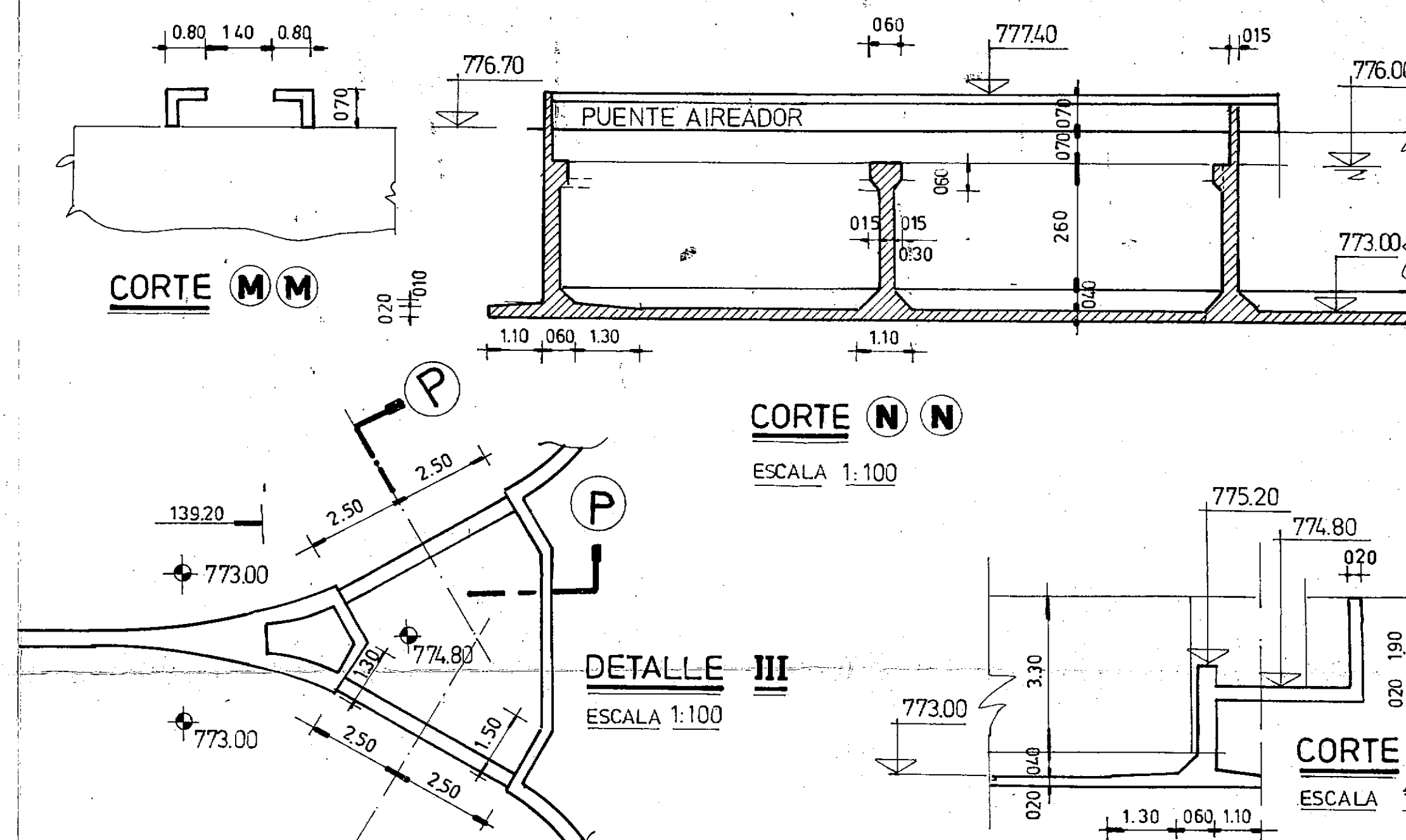
DETALLE B
ESCALA 1:20



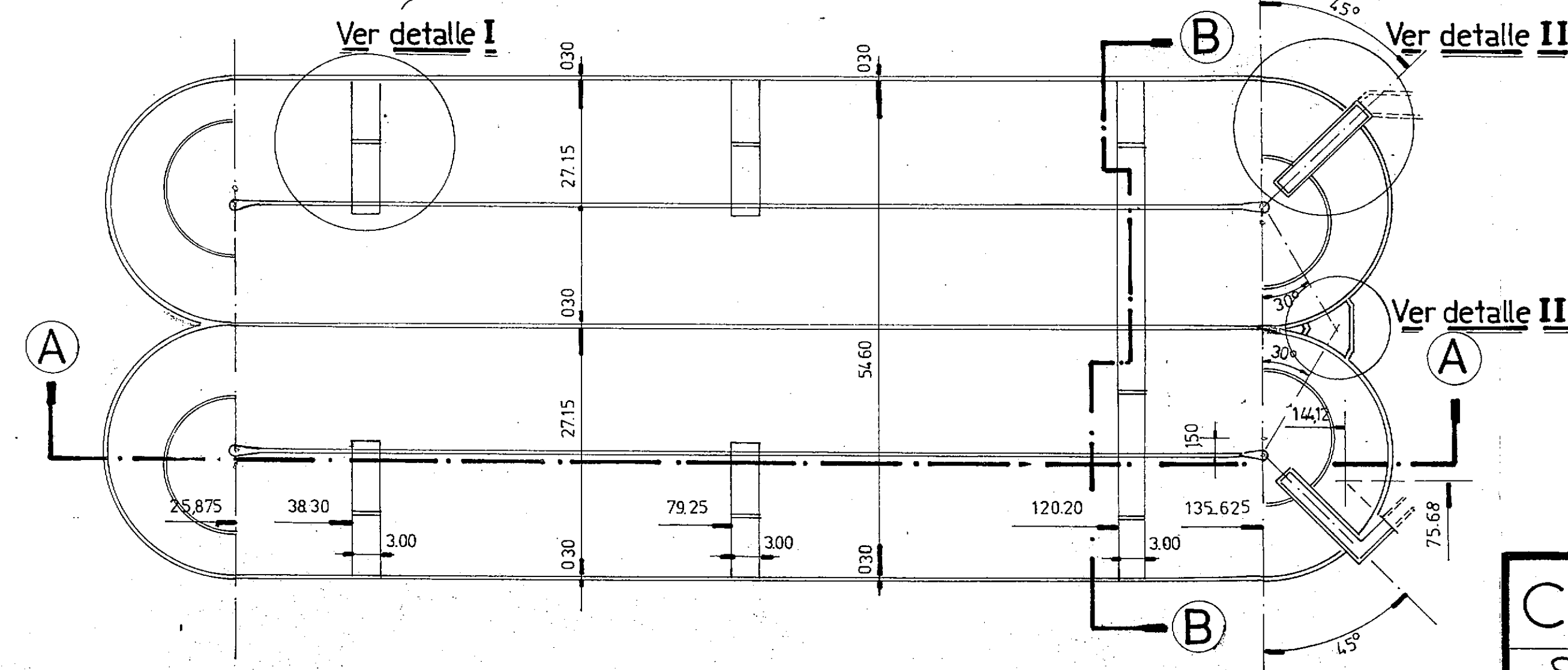
DETALLE C
ESCALA 1:20



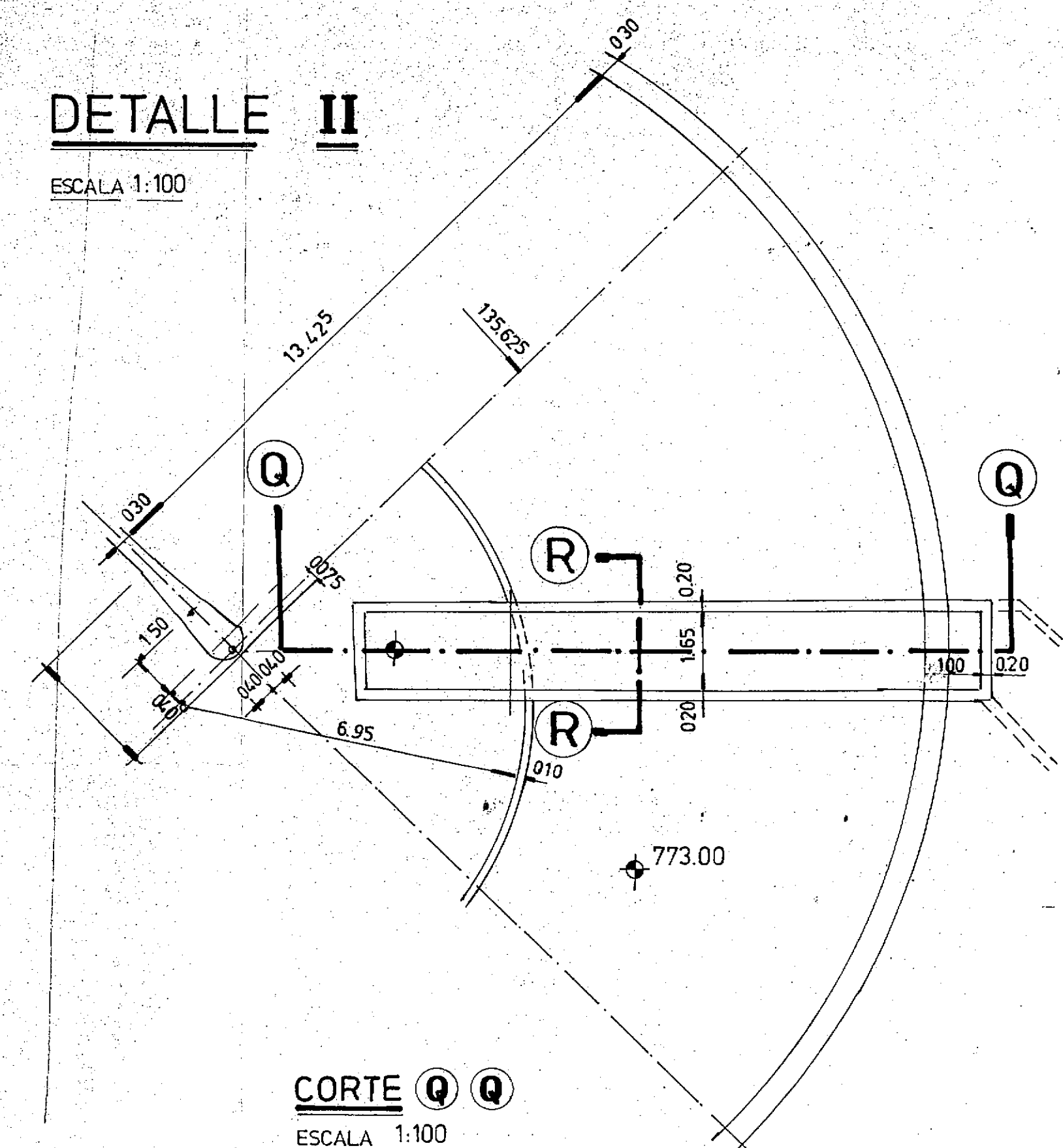
PLANTA DE CONJUNTO
ESCALA 1:300



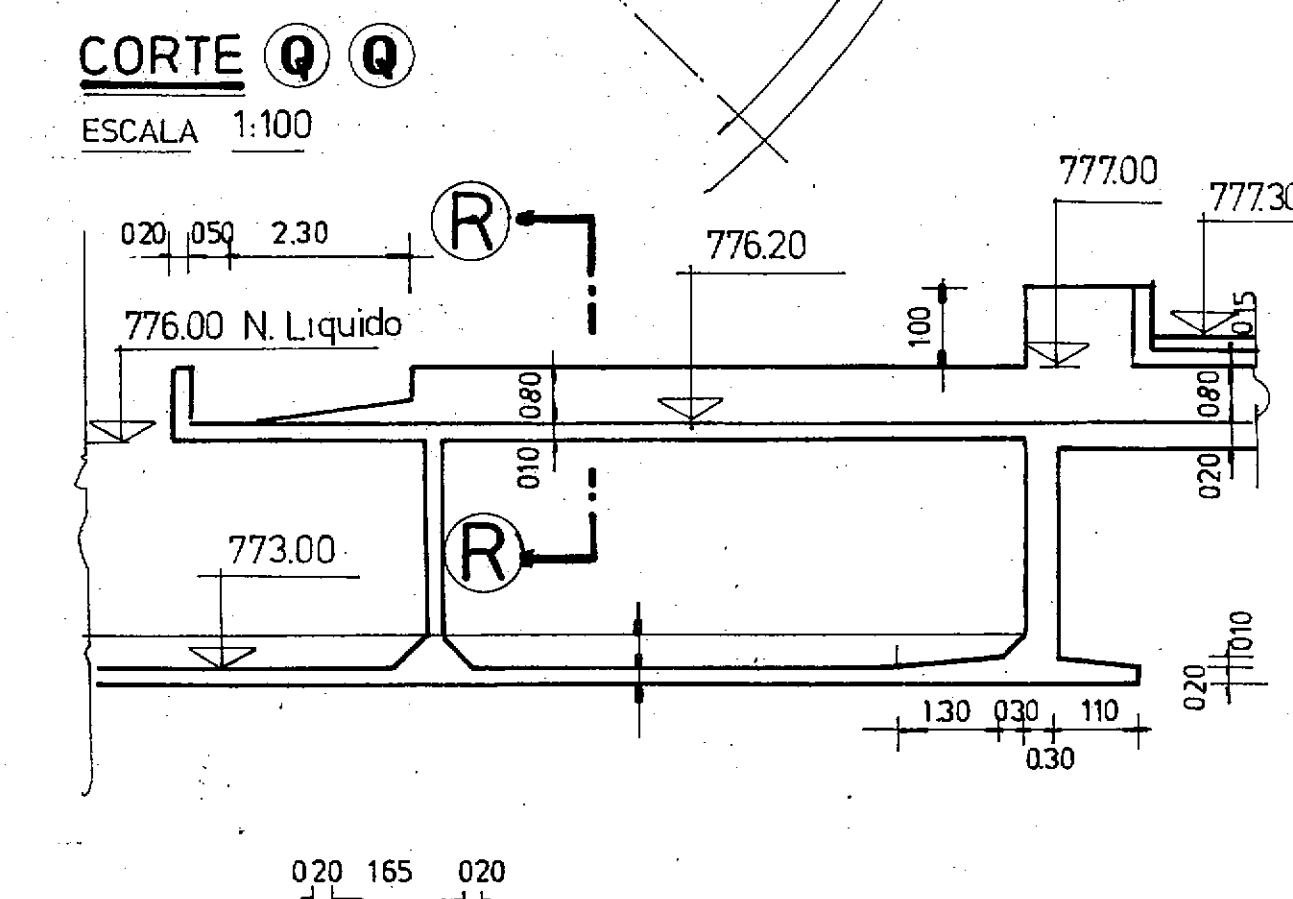
CORTE (N) (N)
ESCALA 1:100



REACTORES



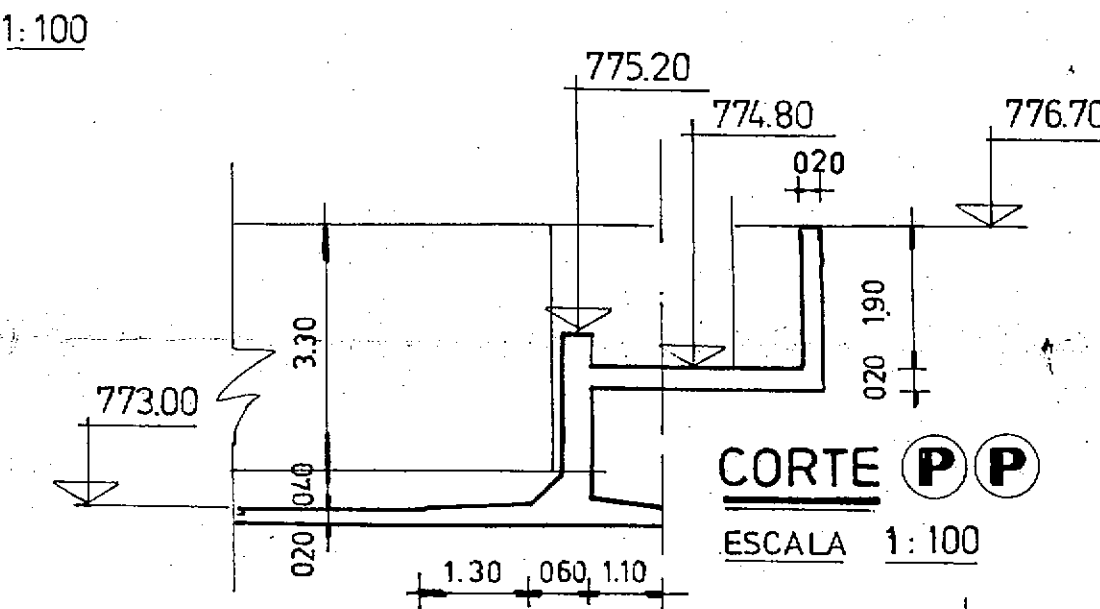
DETALLE II
ESCALA 1:100



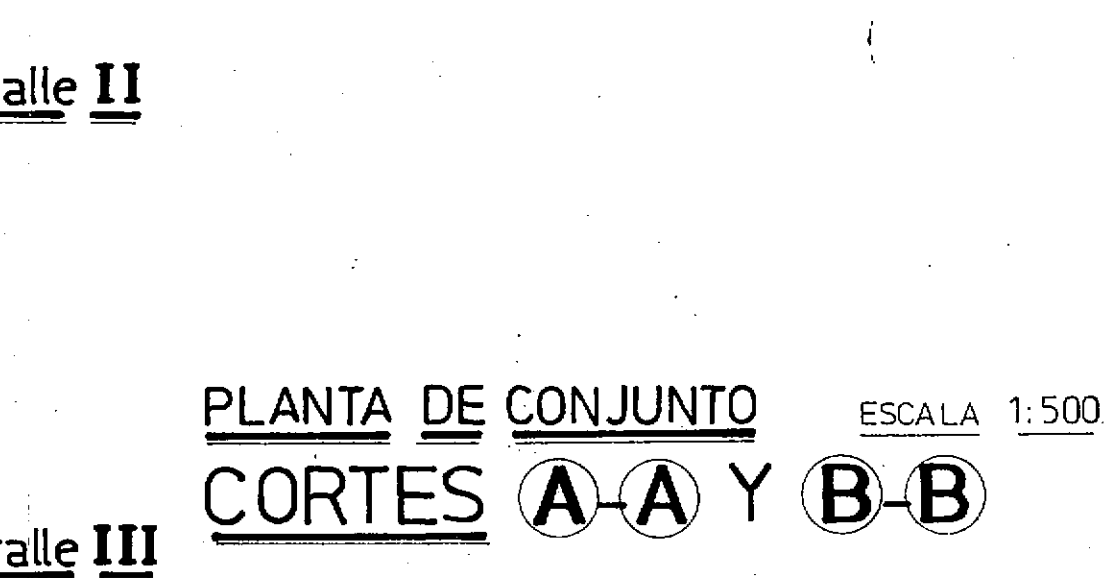
CORTE (Q) (Q)
ESCALA 1:100



CORTE ® ®
ESCALA 1:100.



CORTE **PP**
ESCALA 1:100

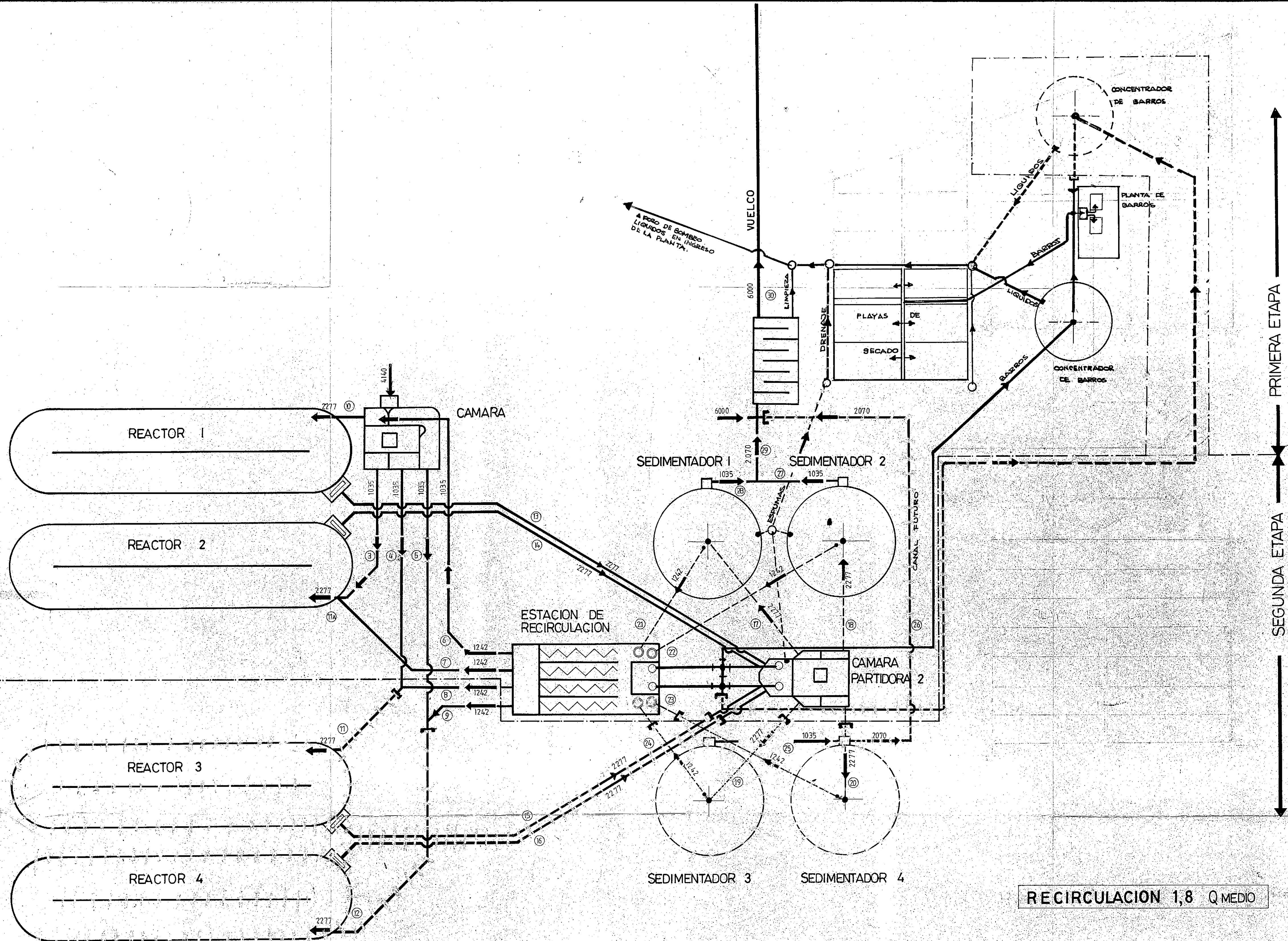


PLANTA DE CONJUNTO ESCALA 1:500
CORTES (A-A) Y (B-B)

SEDIMENTADOR

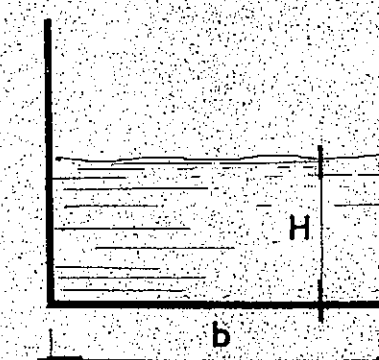
VER LOS PLANOS 6 y 12 COMPLEMENTARIOS

C.F.I. CONSEJO FEDERAL DE INVERSIONES	
SAN CARLOS DE BARILOCHE	
ESTABLECIMIENTO DEPURADOR CLOACAL	
DETALLES DE ARQUITECTURA HIDRAULICA Y PLANOS DE MASA.	
V°B°	FECHA:
PROYECTO	PLANO N°
ING. MARCELO J. PUJOL	24
DIBUJO	ESCALAS : VARIAS



RECIRCULACION 1,8 Q MEDIO

Nº	Q	Q	b	g	INTRADOS FONDO		ALTURA DEL AGUA		LONGITUD	I	R	V	H	Nº
	m³/h	m³/seg	m	m	Anterior	Posterior	Anterior	Posterior						
3	1035	0.2875	1.00		716.27	716.22	716.57	716.52	50	1.0565	0.1875	0.968	0.30	3
4	1035	0.2875	1.00		716.253	716.22	716.623	716.59	56	0.587	0.2126	0.777	0.37	4
5	1035	0.2875	1.00		716.27	716.23	716.65	716.61	70	0.545	0.216	0.756	0.36	5
6	1242	0.345	1.65		716.75	716.70	717.00	716.95	65	0.769	0.191	0.830	0.25	6
7	1242	0.345	1.65		716.75	716.72	716.95	716.92	20	1.50	0.161	1.031	0.20	7
8	1242	0.345	1.65		716.75	716.72	716.92	716.89	12	2.50	0.141	1.219	0.17	8
9	1242	0.345	1.65		716.75	716.72	716.91	716.88	10	3.00	0.134	1.291	0.16	9
10	2277	0.6325	1.65		716.28	716.20	716.51	716.43	22	3.636	0.198	1.729	0.23	10
11	2277	0.6325	1.65		716.22	716.20	716.59	716.57	24	0.833	0.2554	1.045	0.37	11
12	2277	0.6325	1.65		716.23	716.18	716.61	716.56	65	0.7692	0.2601	1.017	0.35	12
13	2277	0.6325	0.80		715.60	715.00	715.61	715.50	55	2.50		1.258		13
14	2277	0.6325	0.80		715.60	715.00	715.76	715.50	55	2.50		1.258		14
15	2277	0.6325	0.80		715.60	715.00	715.76	715.50	55	2.50		1.258		15
16	2277	0.6325	0.80		715.60	715.00	715.76	715.50	55	2.50		1.258		16
17	2277	0.6325	0.80		715.00	715.26	715.26	715.50	45	2.50		1.258		17
18	2277	0.6325	0.80		715.00	715.26	715.26	715.50	45	2.50		1.258		18
19	2277	0.6325	0.80		715.00	715.26	715.26	715.50	45	2.50		1.258		19
20	2277	0.6325	0.80		715.00	715.26	715.26	715.50	45	2.50		1.258		20
21	1242	0.345	0.80		769.10	714.924	714.69	714.69	40	3.394		1.22		21
22	1242	0.345	0.80		769.10	714.924	714.629	714.629	58	3.394		1.22		22
23	1242	0.345	0.60		769.10	714.924	714.629	714.629	58	3.394		1.22		23
24	1242	0.345	0.60		769.10	714.924	714.629	714.629	40	3.394		1.22		24
25	1035	0.2875	1.00		713.58	713.57	714.08	714.07	42	0.259	0.25	0.575	0.50	25
26	2070	0.575	1.00		713.57	713.28	714.07	713.18	156	1.03	0.25	1.15	0.50	26
27	1035	0.2875	1.00		713.18	713.16	713.68	713.66	38	0.259	0.25	0.575	0.50	27
28	1035	0.2875	1.00		713.17	713.16	713.67	713.66	2	0.259	0.25	0.575	0.50	28
29	2070	0.575	1.00		713.16	713.15	713.66	713.65	8	1.03	0.25	1.15	0.50	29
30	4140	1.15	0.90				768.00	768.00	100	4.30		1.90		30



$$V = 90 R^{1/3} I^{1/2}$$



COLEBROOK $K = 2 \text{ mm}$, $T = 0^\circ \text{C}$

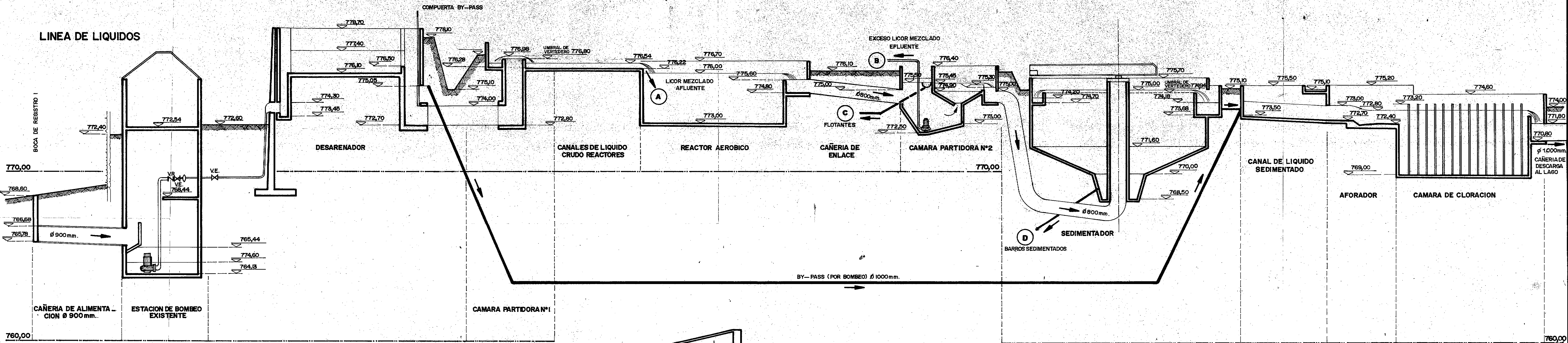
CFI CONSEJO FEDERAL DE INVERSIONES

SAN CARLOS DE BARILOCHE
ESTABLECIMIENTO DEPURADOR CLOACAL

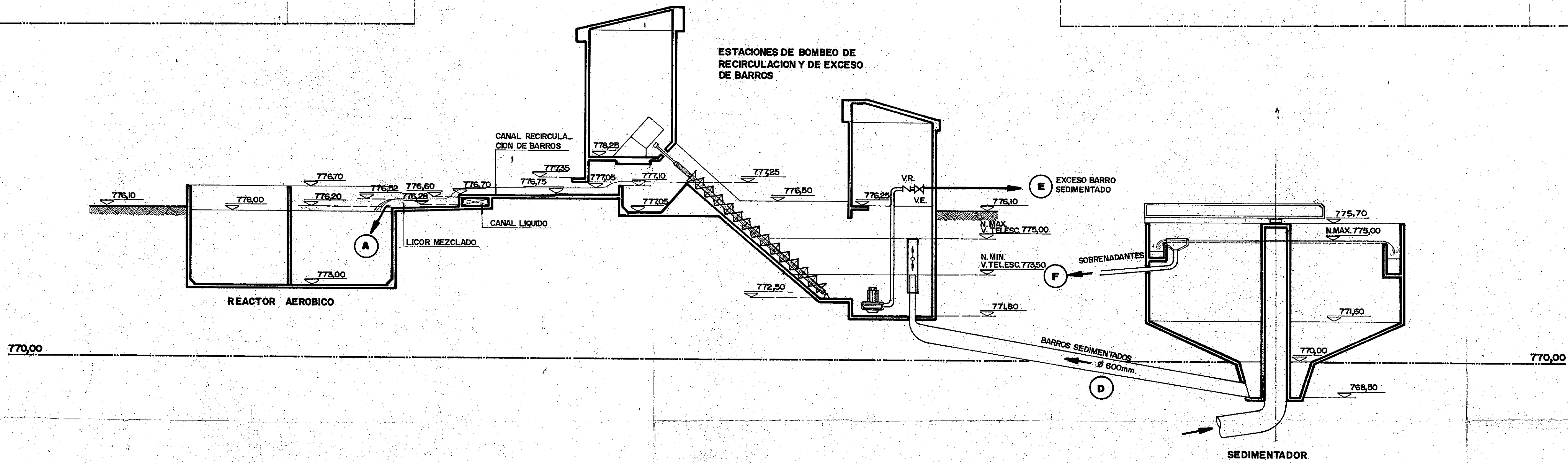
DIAGRAMA DE CAES (r=1,8)

V.B.	ING. MARCELO PUJOL	FECHA
PROYECTO		PLANO-Nº 25
DIBUJO		ESCALA S/E

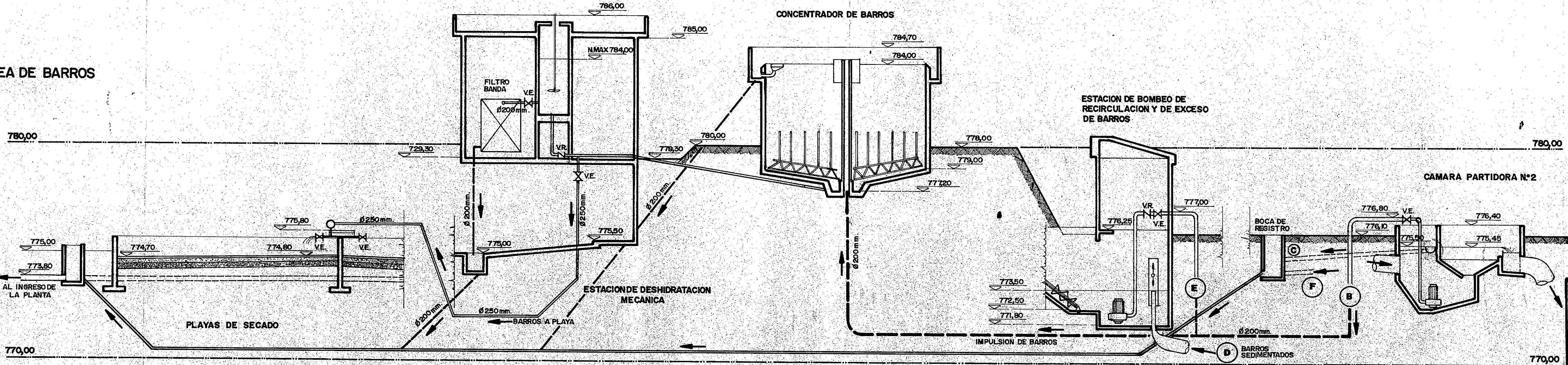
PERFIL HIDRAULICO



LINEA DE RECIRCULACION

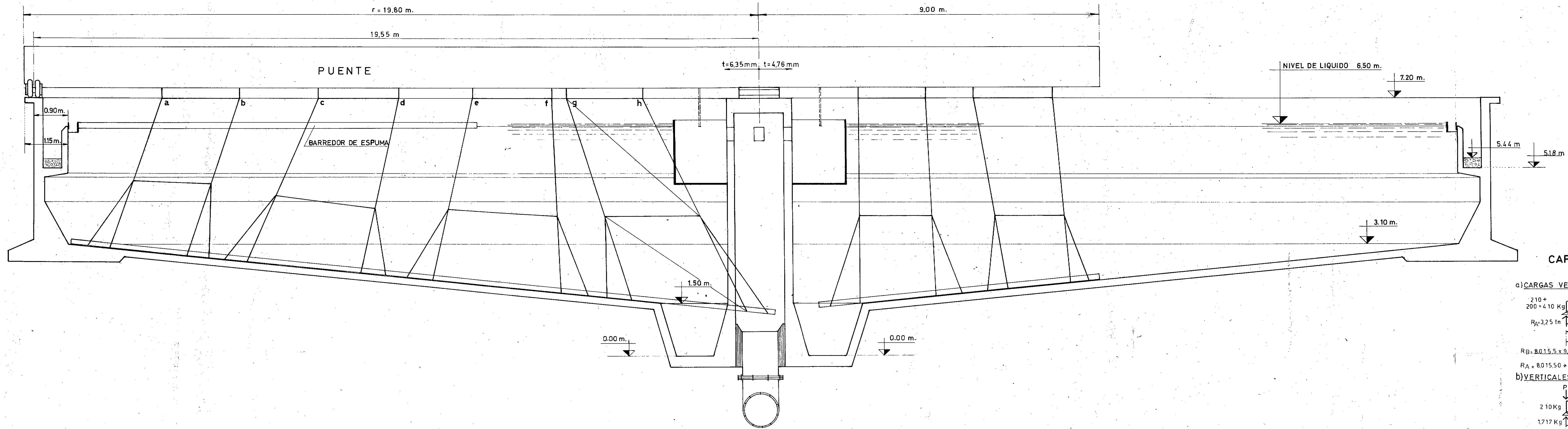


LINEA DE BARROS



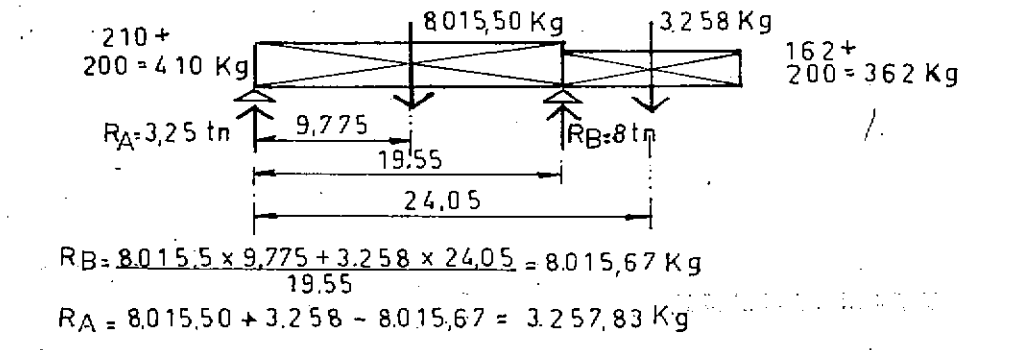
C.F.I. CONSEJO FEDERAL DE INVERSIONES		
SAN CARLOS DE BARILOCHE		
ESTABLECIMIENTO DEPURADOR CLOACAL		
PERFIL HIDRAULICO		
V° B°	FECHA:	PLANO N°
PROYECTO	ING. MARCELÓ J. PUJOL	26
DIBUJO		ESC. VERTICAL: 1:100 ESC. HORIZ. NO TIENE

CORTE

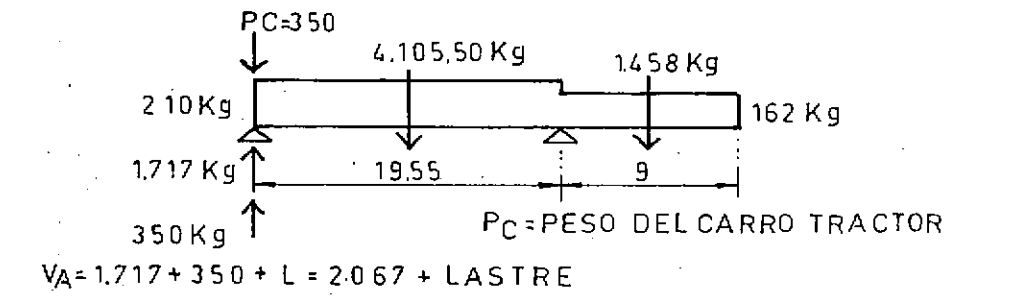


CARGAS

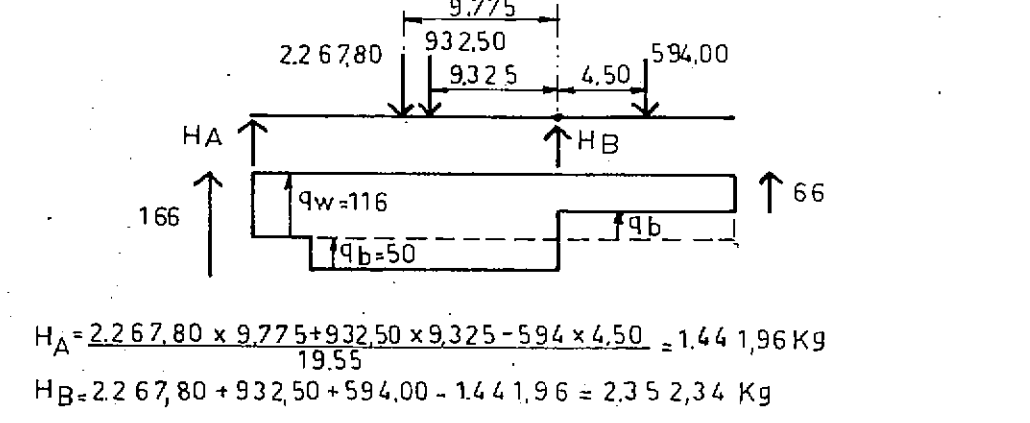
a) CARGAS VERTICALES MAXIMAS



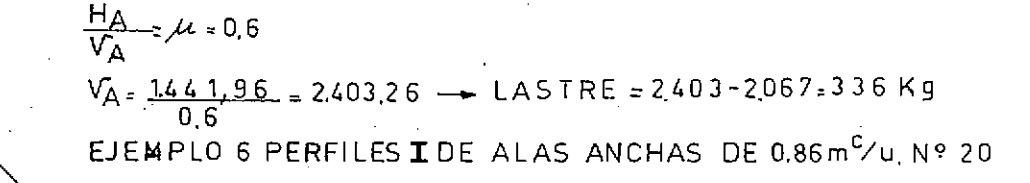
b) VERTICALES MINIMAS



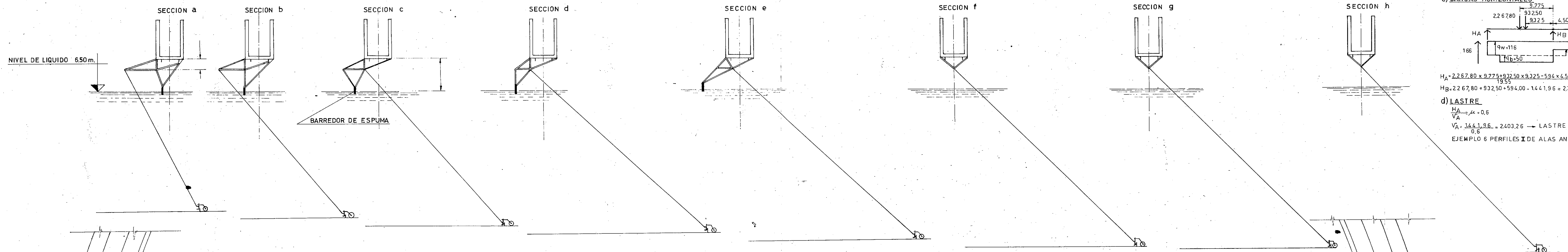
c) CARGAS HORIZONTALES



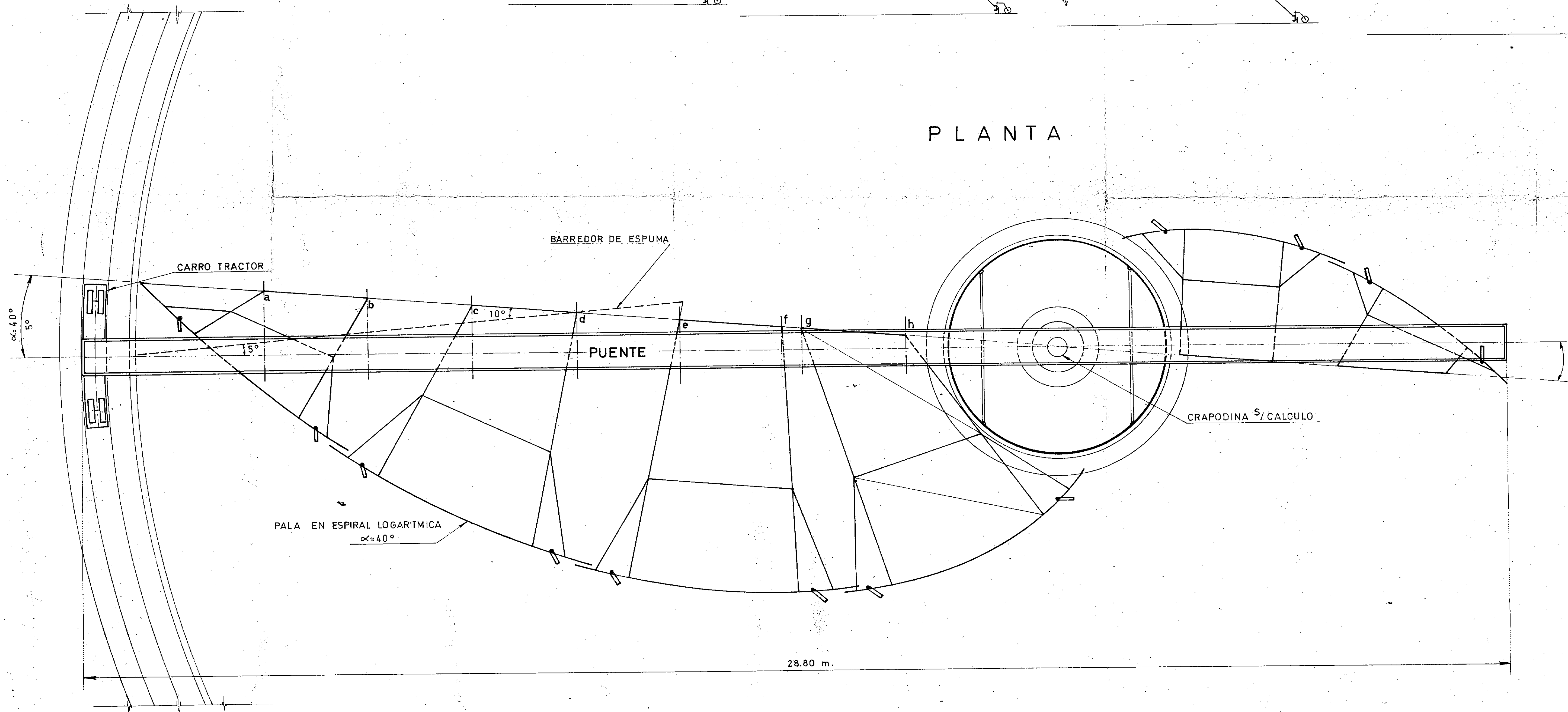
d) LASTRE



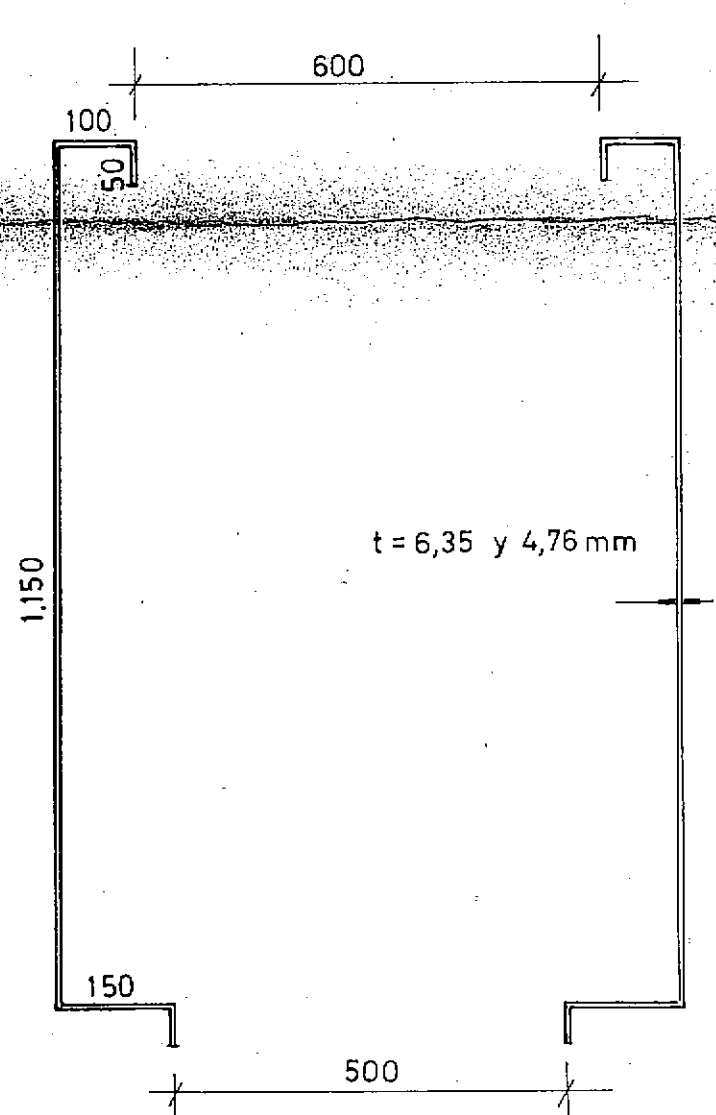
SECCIONES TÍPICAS



PLANTA



PERFILES RESISTENTES



C.F.I. CONSEJO FEDERAL DE INVERSIONES

SAN CARLOS DE BARILOCHE

ESTABLECIMIENTO DEPURADOR CLOACAL

EQUIPOS DEL DESARENADOR Y PUENTE BARREDOR DEL SEDIMENTADOR

V° B°

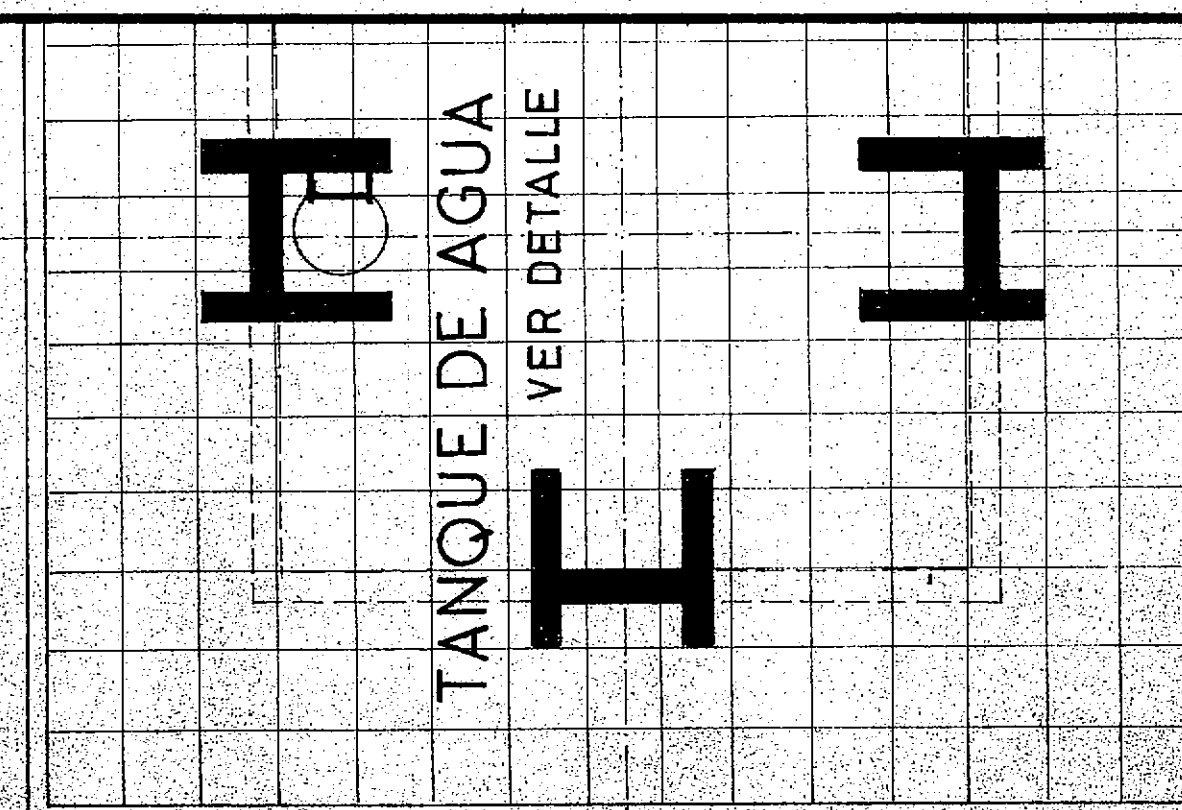
PROYECTO ING. MARCELO J. PUJOL

DIBUJO

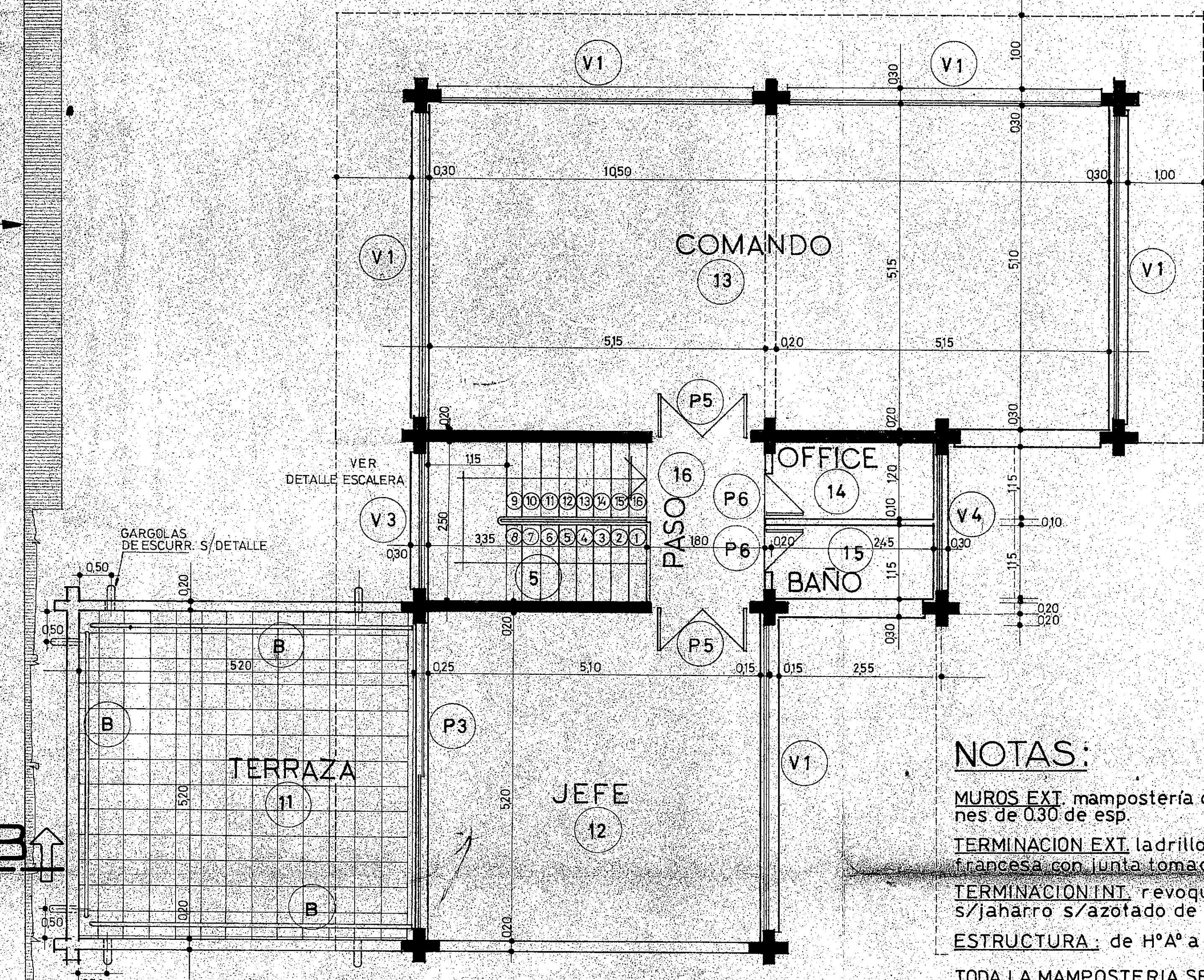
FECHA:

PLANO N°

ESCALA: 1:50

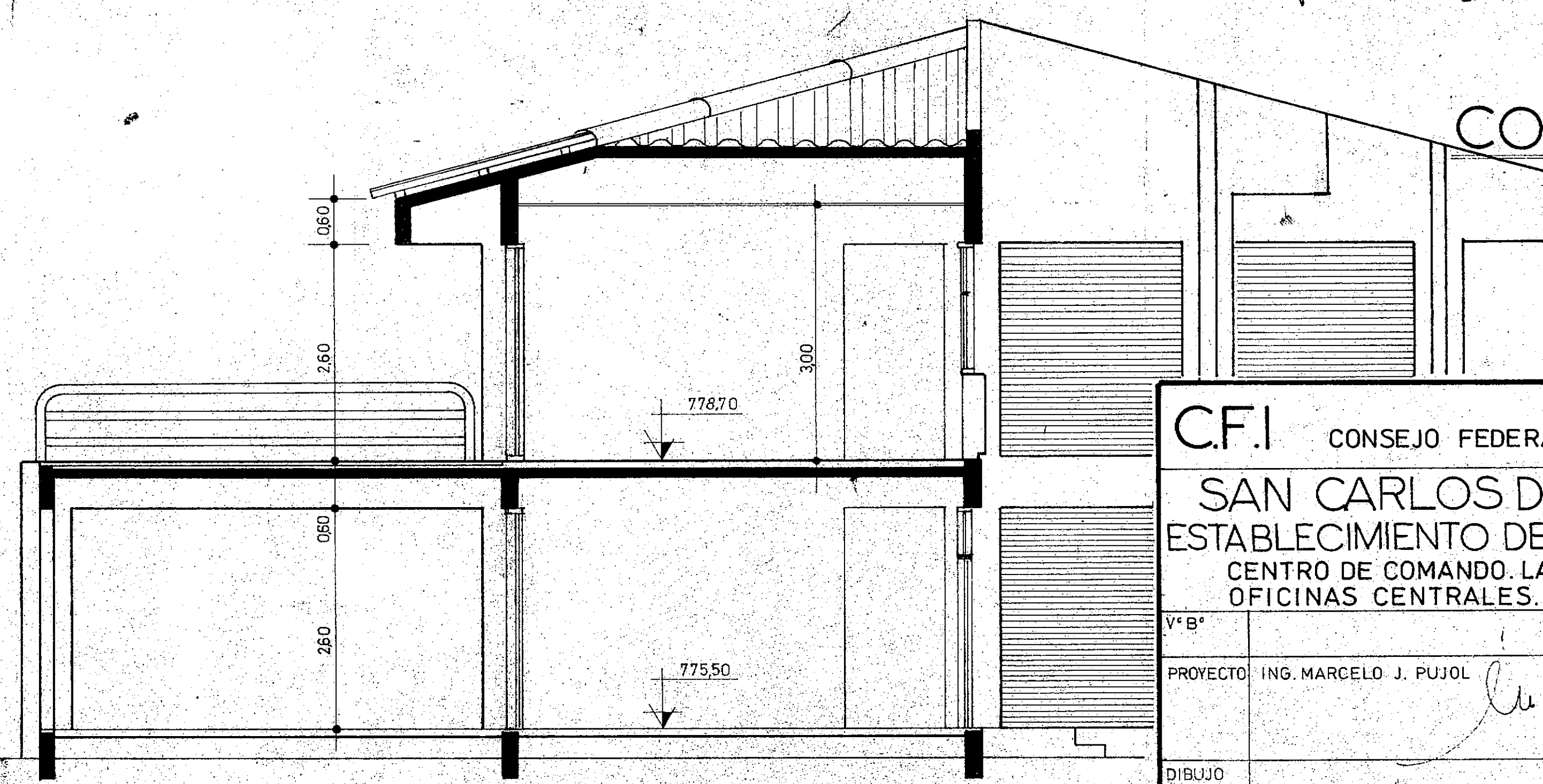


PLANTA ALTA



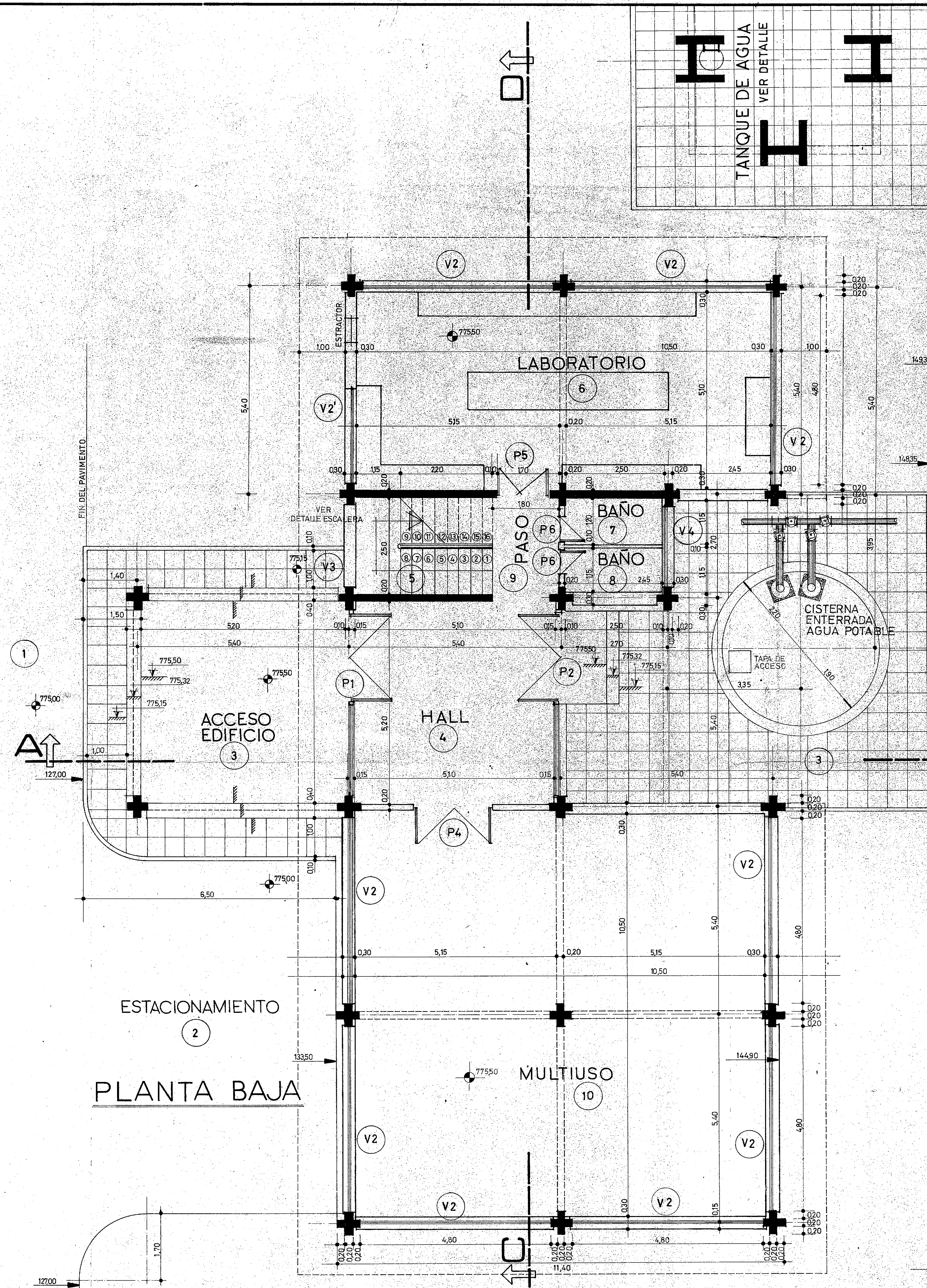
- NOTAS:**
- MUROS EXT. mampostería de ladrillos comunes de 0.30 de esp.
 - TERMINACION EXT. ladrillo a la vista a la francesa con junta tomada
 - TERMINACION INT. revoque a la cal fina s/jaharro s/azofado de cemento.
 - ESTRUCTURA: de Hªª a la vista.
 - TODA LA MAMPOSTERIA SE ARMARA CON 2 Ø 6 HORIZONTALES c/ 50 cm. DE ALTURA.
 - ESTRIBOS Ø 4 c/ 30 cm.
 - $\gamma_{ek} = 4400 \text{ Kg/cm}^2$
 - ANTEPECHOS ARMADOS CON 2 Ø 8 ANCLADOS A LAS COLUMNAS MAS CECANAS.
 - ESTRIBOS Ø 4 c/ 30 cm.
 - $\gamma_{ek} = 4400 \text{ Kg/cm}^2$

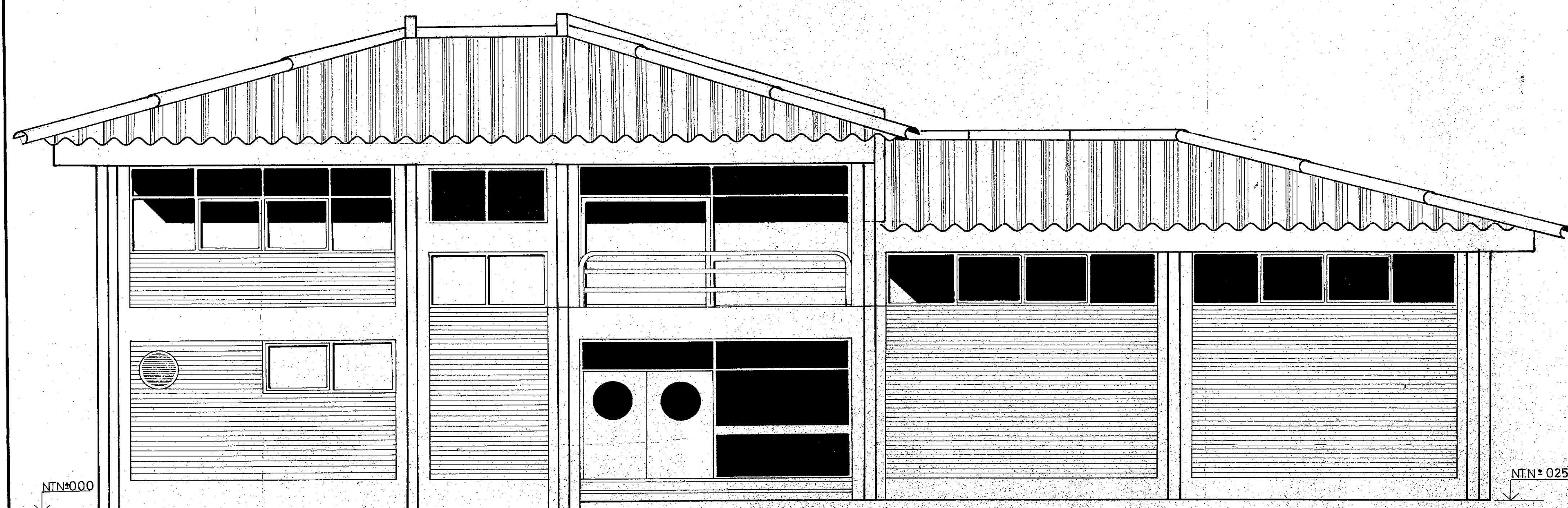
CORTE A-B



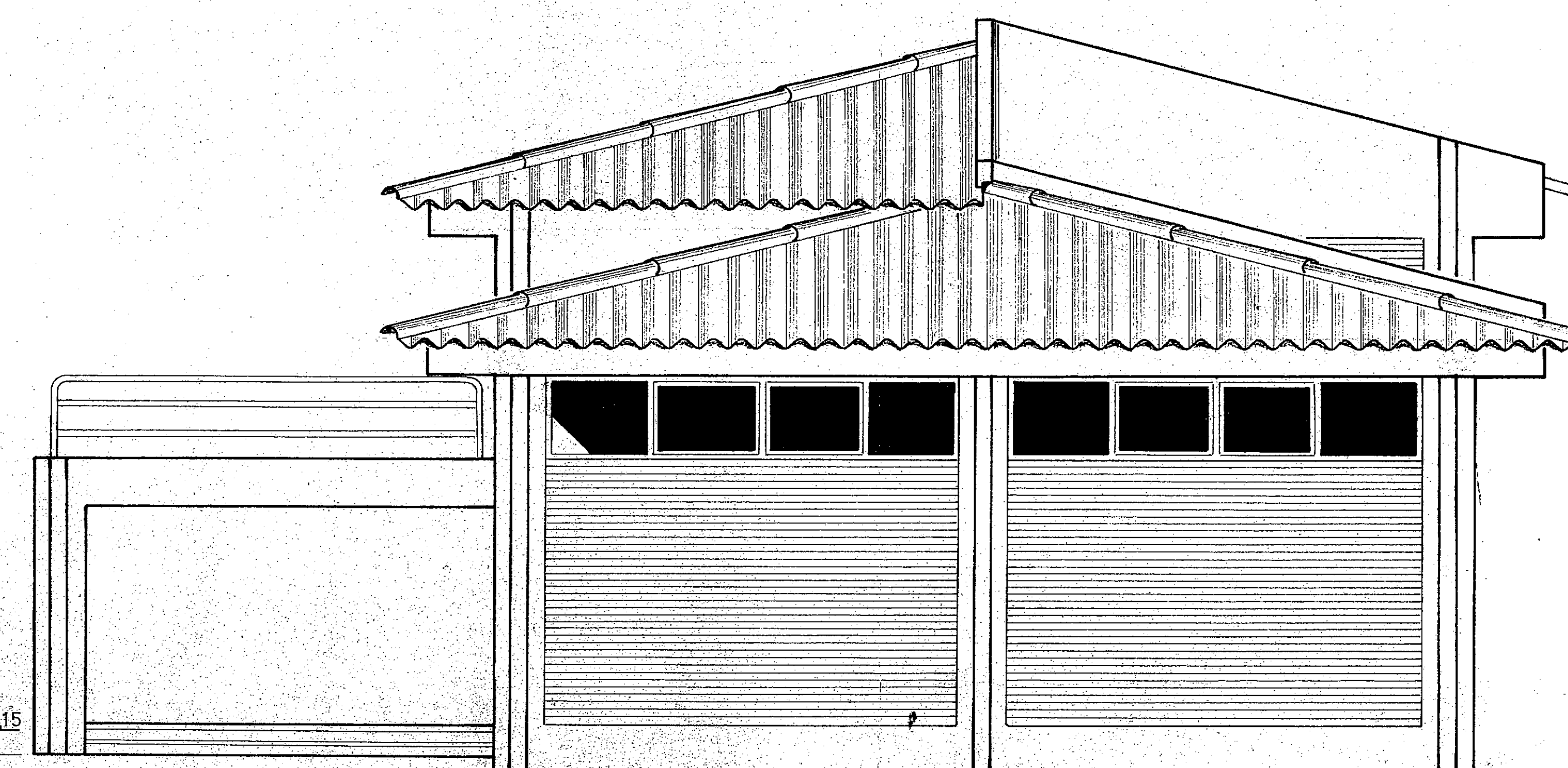
C.F.I. CONSEJO FEDERAL DE INVERSIONES	
SAN CARLOS DE BARILOCHE	
ESTABLECIMIENTO DEPURADOR CLOACAL	
CENTRO DE COMANDO, LABORATORIO Y OFICINAS CENTRALES.	
PROYECTO: ING. MARCELO J. PUJOL	FECHA:
DIBUJO:	PLANO N° 28
	ESCALA: 1:50

PLANTA BAJA

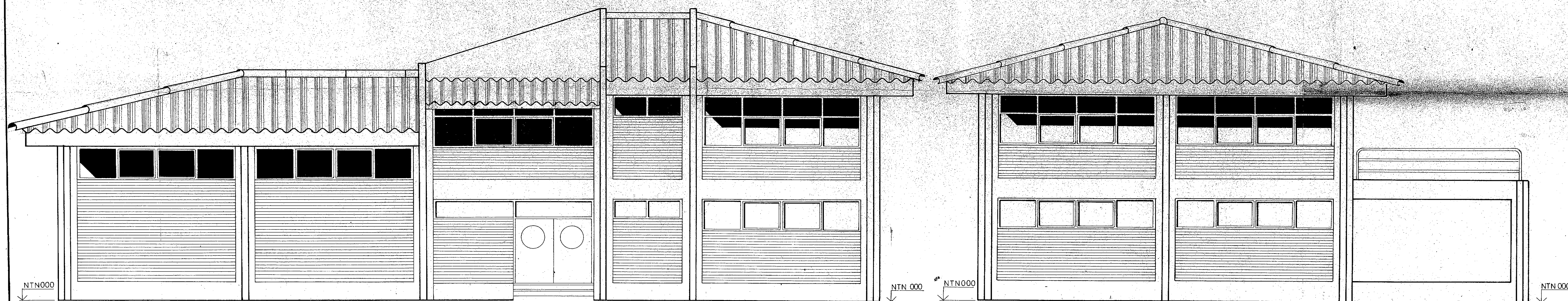




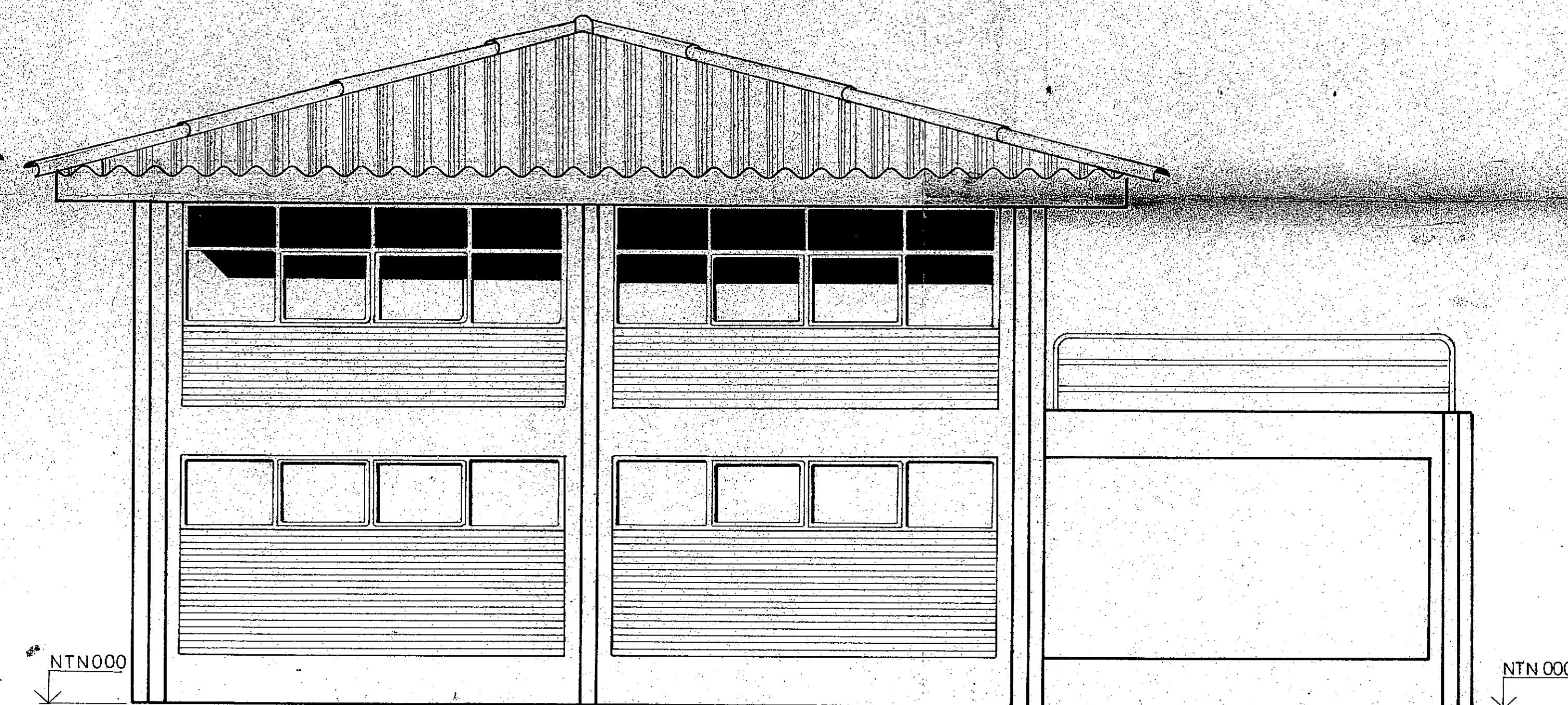
VISTA 1



VISTA 2



VISTA 3



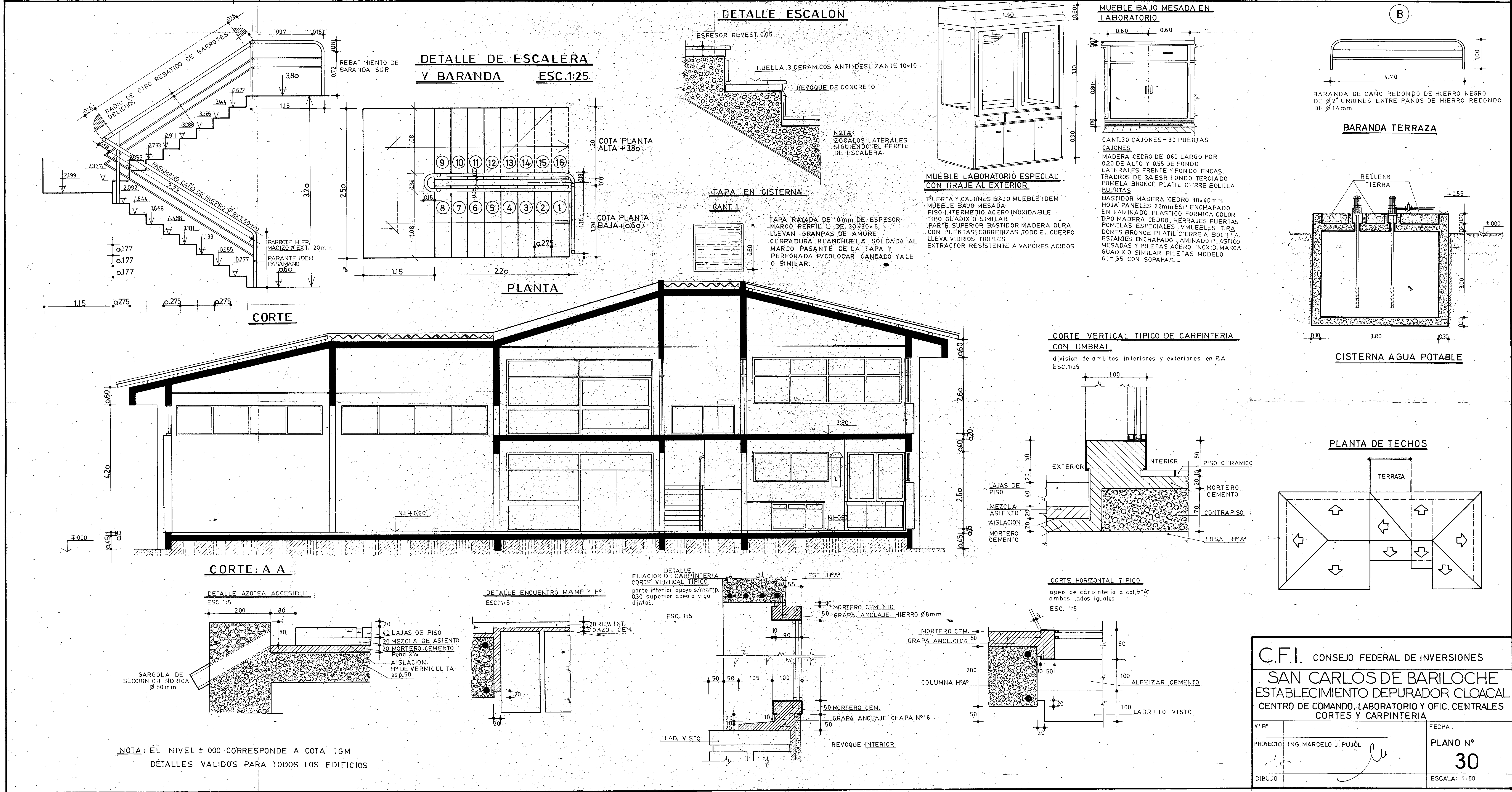
VISTA 4

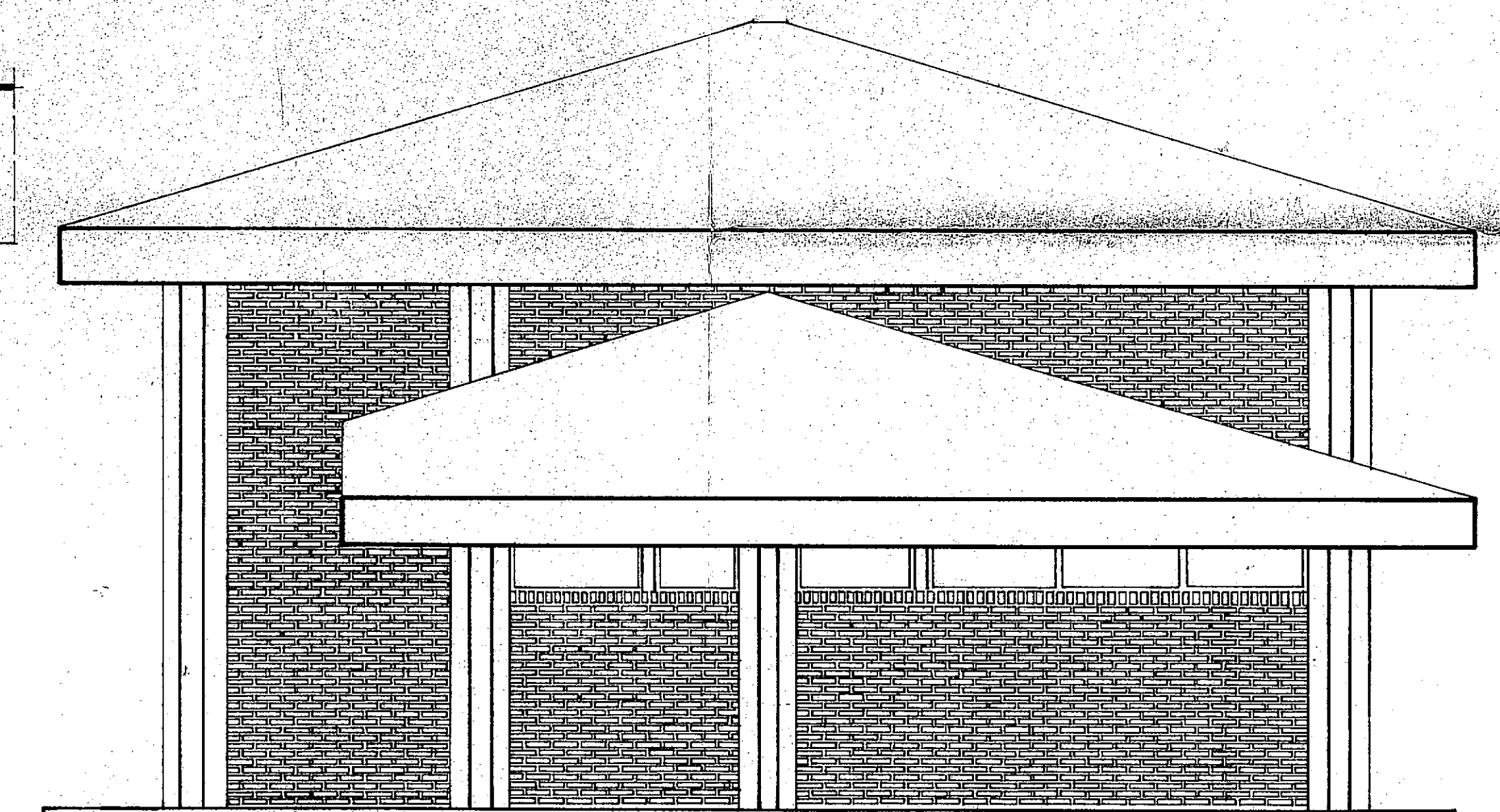
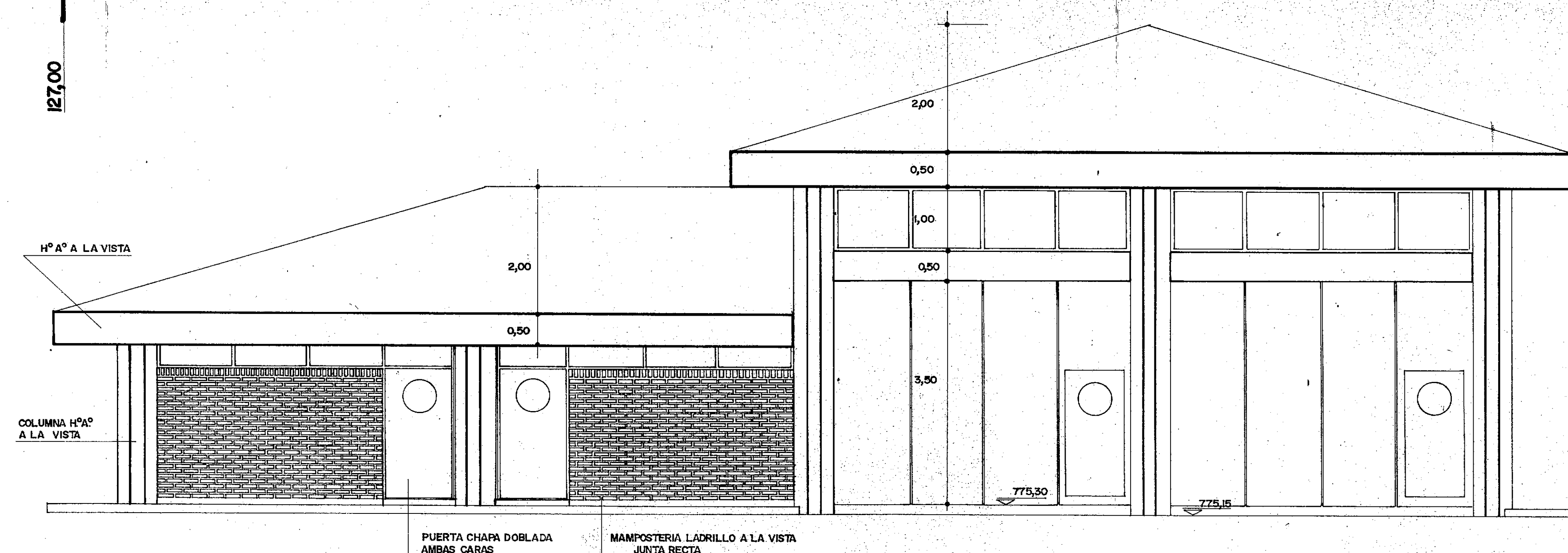
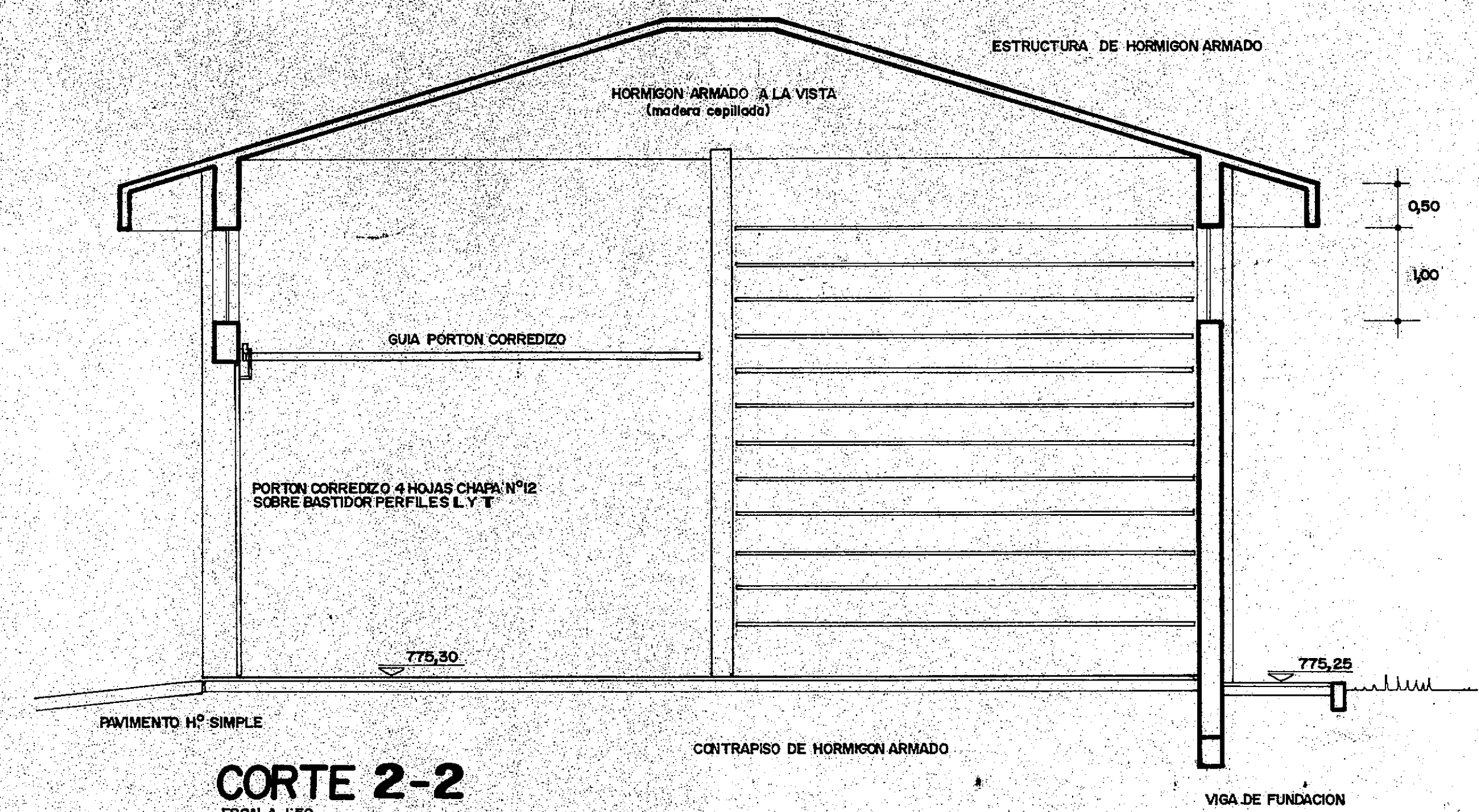
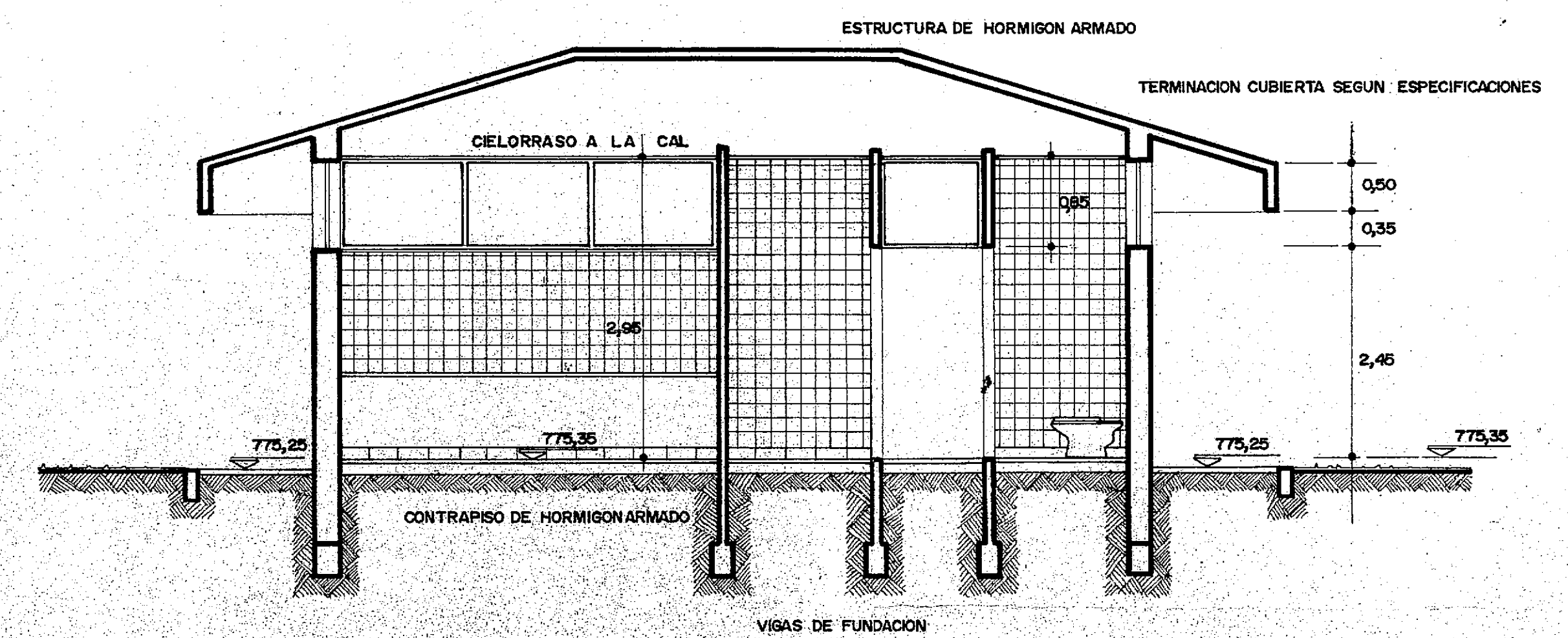
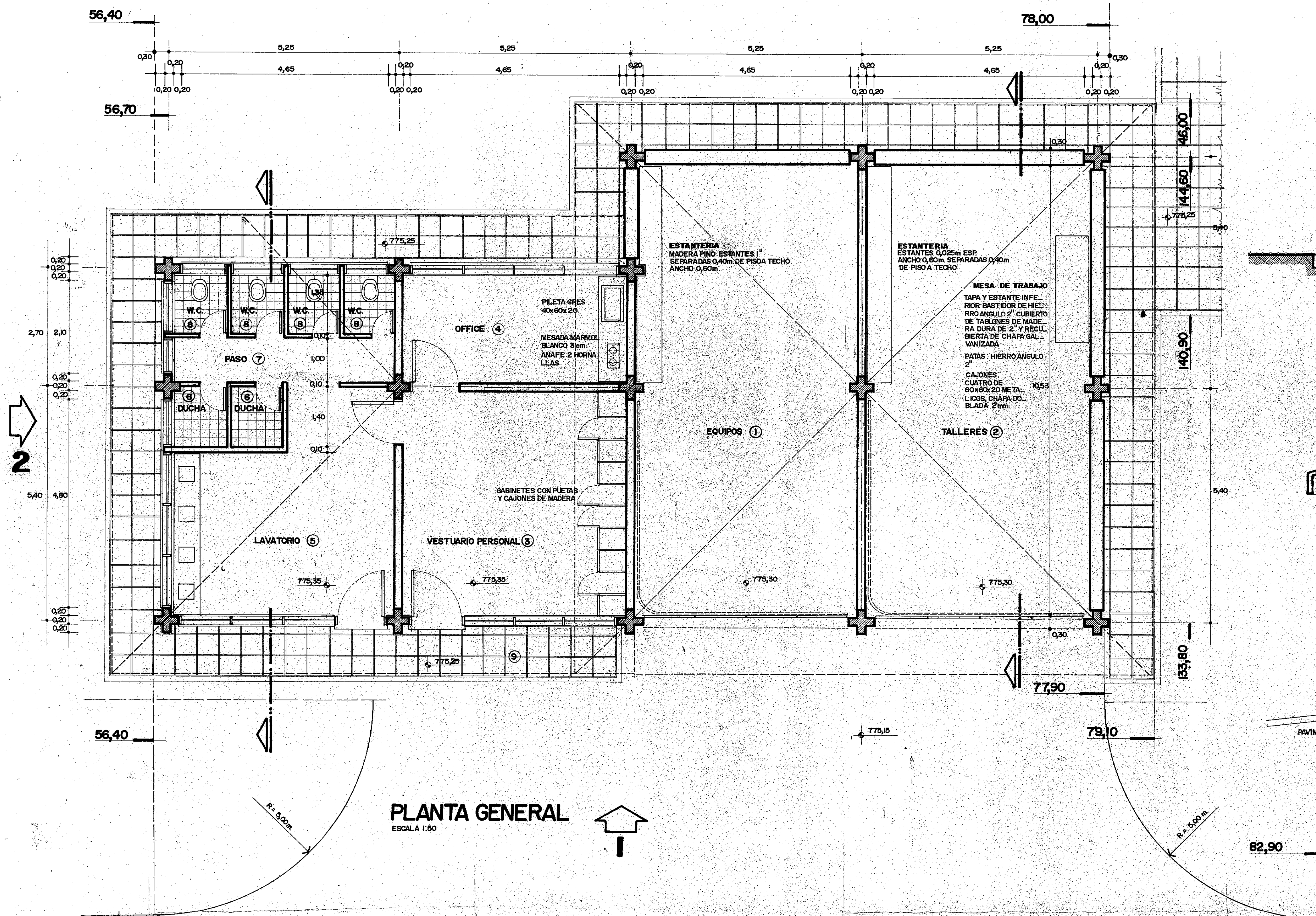
NOTA
TODA LA MAMPOSTERIA SE ARMARA CON 2 ϕ 6
HORIZONTALES c/50cm DE ALTURA.
ESTRIBOS ϕ 4 c/30 cm. $f_{ek}=4400 \text{ Kg/cm}^2$
ANTEPECHOS ARMADOS CON 2 ϕ 8 ANCLADOS
A LAS COLUMNAS MAS CERCANAS
ESTRIBOS ϕ 4 c/30 cm. $f_{ek}=4400 \text{ Kg/cm}^2$

NOTAS
MUROS EXTERIORES: de ladrillos comunes de 0,30 de espesor.
TERMINACION EXT: ladrillos a la vista a la francesa con junta tomada.
TERMINACION INT: revoque a la cal fina s/jaharro s/azotado de cemento.
ESTRUCTURA: de H ϕ A a la vista.

CFI CONSEJO FEDERAL DE INVERSIONES	
SAN CARLOS DE BARILOCHE	
ESTABLECIMIENTO DEPURADOR CLOACAL	
CENTRO DE COMANDO, LABORATORIO Y OFICINAS	
CENTRALES VISTAS	
VºBº	FECHA:
PROYECTO ING. MARCELO J. PUJOL	PLANO Nº
	29
DIBUJO	ESCALA: 1:50

MARCO	CHAPA DOBLADA Nº16 DE 50x100mm	IDEM P1	IDEM P1	IDEM P1	IDEM P1	IDEM P1	IDEM P1	IDEM P1	IDEM P1	IDEM P1
HOJAS	A TABLERO DE CEDRO ESPESOR 2" C/VF	"	"	"	"	"	"	"	"	CHAPA DOBLADA Nº16 CORREDIZA
VIDRIOS	CRISTALES REFLECTANTES DE COLOR EN MASA (BRONCE) INDICE DE REFLEXION 40%	"	"	"	"	"	"	"	"	"
CONTRAVID.	TUBO DE ALUMINIO 10x10mm	"	"	"	"	"	"	"	"	"
HERRAJES	MANIJAS Y POMELAS BRONCE PLATIL CERRADURA TIPO YALE	"	"	"	"	"	"	"	"	"
MANOS	S/PLANO	"	"	"	"	"	"	"	"	"
CORTINA	"	"	"	"	"	"	"	"	"	"
CANTIDAD	1	1	1	1	3	4	5	V2+3 V2+1 V2+6	1	2
OBSERVAC.	CORTE 1-1 TÍPICO VISTA DESDE AFUERA	VISTA DESDE ADETRON	VISTA DESDE AFUERA	VISTA DESDE AFUERA	VISTA DESDE AFUERA	VISTA DESDE AFUERA	VISTA DESDE AFUERA	V2+3 V2+1 V2+6	VISTA DESDE ADETRON	VISTA DESDE AFUERA





LOCALES		CUBIERTAS			CIELORRASOS			MUROS				PISOS						ELECTRICIDAD						GAS		ARTEFACTOS SANITARIOS				PINTURA				OBSERVACIONES
N°	DESIGNACION	EST.	TERMINAC.	AISLAC.	MAT.	TIPO	ENC.	EST.	TERM. INT.	TERM. EXT.	REVEST.	CONTRAPISOS				ZOCALOS		BOCAS LUZ TOMAS				ESTUFA	VARIOS	INODORO	LAVAT.	C.S.		CIELOR.	MUROS		ZOC.	CARP.	HERR. PREV. ANT.	
												MATERIAL	ESPESOR	MAT.	DIMEN.	COLOC.	PULIDO	MAT.	ALT.	CENTRO	LATERAL					Mo	Trf.		Tim.	Tel.				

EDIFICIO PRINCIPAL

1	ACCESO PLANTA	—	—	—	—	—	—	—	—	—	—	—	—	—	SIMIL PAV. EXIST. PLANTA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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EDIFICIO TALLERES

1	EQUIPOS	HºAº	CHAPA FIBROCEM. S/CLAV. MADERA	CONCRETO TECH. SIST. HYALON	HºAº	VISTO	—	—	—	—	—	Hº POBRE	0.20	GRANITICO GRIS BARD.	0.20x0.20	RECTA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	TALLERES	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	VESTUARIO PERS.	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	OFFICE	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	LAVATORIO	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	DUCHA	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	PASO	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	W.C.	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	VEREDA	—	—	—	—	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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ESTACION DE DESHIDRATACION MECANICA

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EDIFICIO PARA CLORACION

1	SALA DOSAJE	HºAº	CHAPA FIBROCEM. S/CLAV. MADERA	CONCRETO TECH. SIST. HYALON	CAL	SUSPEND.	CURVO	—	—	—	—	—	"	GRES CER. ROJO	0.10x0.20	RECTO	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	ALMACEN HIPOCL.	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

EDIFICIO BOMBEO DE RECIRCULACION Y EXCESO DE BARROS

1	LOCAL BOMBEO EXCESO BARROS	HºAº	CARP. CEMENTO S/CONTRAP. HºS. PENDIENTE 1:1%	TERMINAC. E HIDROFUGA TECH. HYF.	CAL	APLICADO	CURVO	—	—	—	—	—	"	GRES CER. ROJO	0.10x0.20	RECTO	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	LOCAL SALA MAQUINAS TORN.	"	"	"	"	—	—	—	—	—	—	—	"	"	"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

C.F.I. CONSEJO FEDERAL DE INVERSIONES
SAN CARLOS DE BARILOCHE
ESTABLECIMIENTO DEPURADOR CLOACAL
PLANILLA DE LOCALES

Vº Bº	FECHA :
PROYECTO	PLANO N°
DIBUJO	ESC.

SISTEMA DE AGUA PARA CONSUMO HUMANO

CISTERNA DE AGUA POTABLE 25 m³ Ø 3,80 m
CON 2 BOMBAS Q=10m³/H H=30m.

SISTEMA DE AGUA PARA SERVICIOS

- ① CAÑERÍA DE IMPULSION Ø 75mm. Hº 6º
- ② CAÑERÍA DE BAJADA Ø 100mm. Hº 6º
- ③ CURVA Ø 75 mm.
- ④ VALVULA RETENCION Ø 75mm.
- ⑤ VALVULA ESCAPE Ø 75mm.
- ⑥ CURVA CON BASE Ø 75 mm.
- ⑦ RAMAL Te Ø 75mm. x Ø 75mm.
- ⑧ BOCA TROMPETA Ø 100mm.
- ⑨ RAMAL Te Ø 100mm. x Ø 75mm.
- ⑩ JUNTA DE EXPANSION Ø 100mm.
- ⑪ CURVA CON CON BASE Ø 100mm.
- ⑫ BOMBA Q=20m³/H, H=30m

NUDO PRINCIPAL DE AGUA P/ SERVICIOS

- ① RAMAL Te Ø 100mm. x Ø 100mm.
- ② VALVULA ESCLUSA Ø 100mm.
- ③ RAMAL Te Ø 100mm. x Ø 50mm.
- ④ REDUCCION Ø 100mm A Ø 75mm.
- ⑤ VALVULA ESCLUSA Ø 75mm.
- ⑥ CURVA Ø 75mm.
- ⑦ HIDRANTE.

NUDO SIMPLE

- ① RAMAL Te Ø 100mm. x Ø 100mm.
- ② REDUCCION Ø 100mm. A Ø 75mm.

NUDO CON VALVULA ESCLUSA

- ① RAMAL Te Ø 75mm. x Ø 50mm.
- ② VALVULA ESCLUSA Ø 75mm.

- ⑥ Ø 100mm. ① Ø 100mm. ② Ø 50mm.

NUDO SIMPLE

- ① RAMAL Te Ø 100mm. x Ø 100mm.
- ② REDUCCION Ø 100mm. x Ø 50mm.

- ⑦ Ø 100mm. ① Ø 100mm. ② Ø 100mm.

RAMAL 100x50

- ① RAMAL Te Ø 100mm. x Ø 50mm.

- ⑧ Ø 75mm. ① Ø 75mm. ② Ø 50mm.

RAMAL 75x50

- ① RAMAL Te Ø 75mm. x Ø 50mm.

- ⑨ Ø 50mm. ① Ø 50mm. ② Ø 50mm.

RAMAL 50x50

- ① RAMAL Te Ø 50mm. x Ø 50mm.

- ⑩ ①

- ① HIDRANTE CON OBTURADOR MANUAL SOBRE CONEXION Ø 50mm. CANTIDAD 17

- ⑪ ①

- ① PICO PARA RIEGO S/ MODELO CON CONEXION DE Ø 25mm. CAÑO NEGRO DE POLIETILENO FLEXIBLE CANTIDAD 25

CAÑERÍA RECTA DE Hº 6º Ø 100mm. INCLUSO CURVAS
IDEM Ø 75mm. 280 m.
IDEM Ø 50mm. 510 m.
c.p.f. Ø 25mm. 305 m.
180 m.

REFERENCIAS:

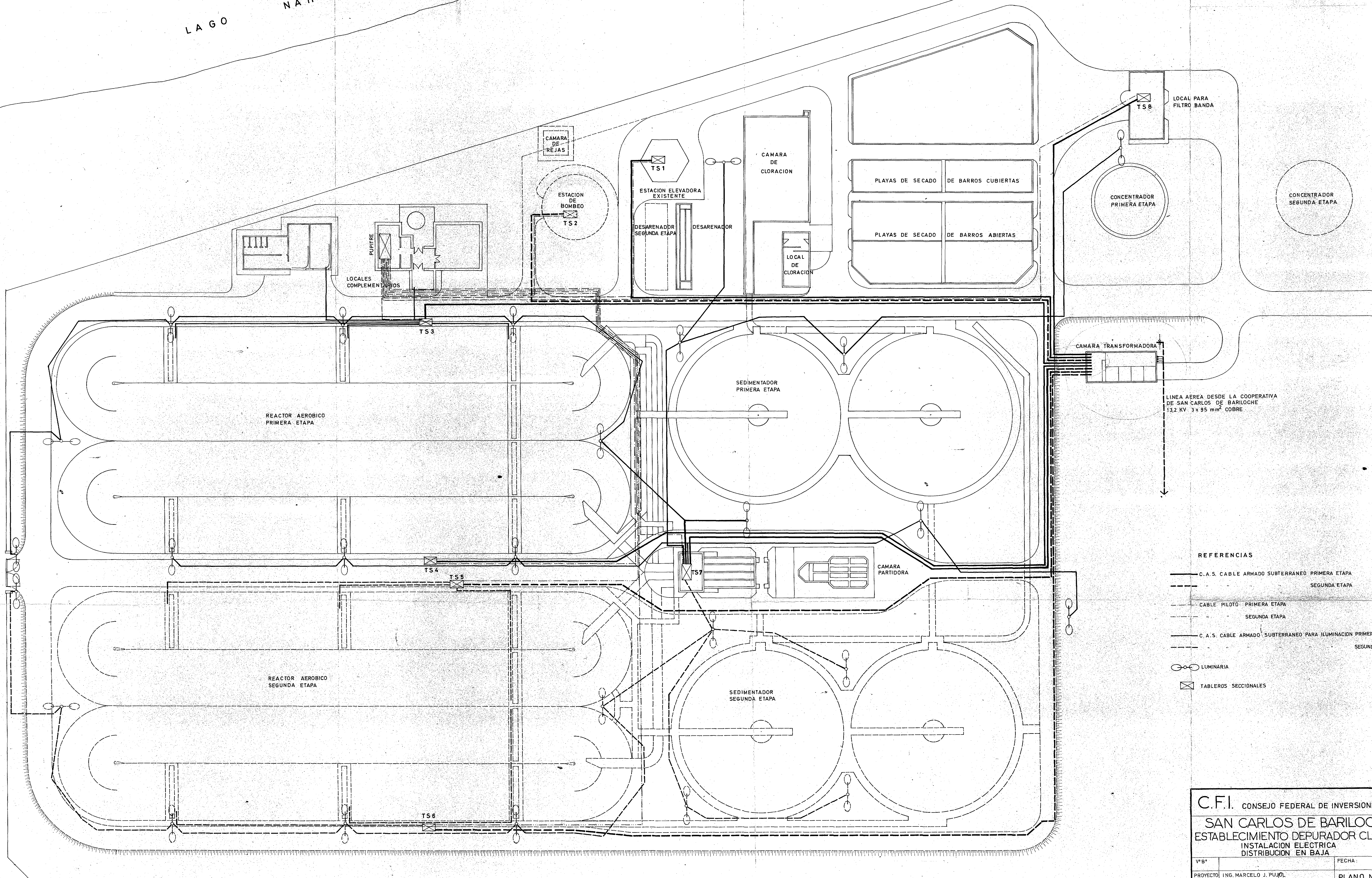
- SISTEMA DE AGUA PARA ABASTECIMIENTO HUMANO
— SISTEMA DE AGUA PARA SERVICIOS

C.F.I. CONSEJO FEDERAL DE INVERSIONES
SAN CARLOS DE BARILOCHE
ESTABLECIMIENTO DEPURADOR CLOACAL

RED DE AGUA

Vº Bº	FECHA:
PROYECTO	ING. MARCELO J. PUJOL
DIBUJO	PLANO N° 33
	ESCALA: 1:500

LA GO NAHUEL HUAPI



LINEA AEREA DESDE LA COOPERATIVA DE SAN CARLOS DE BARILOCHE 13.2 KV. 3 x 95 mm² COBRE

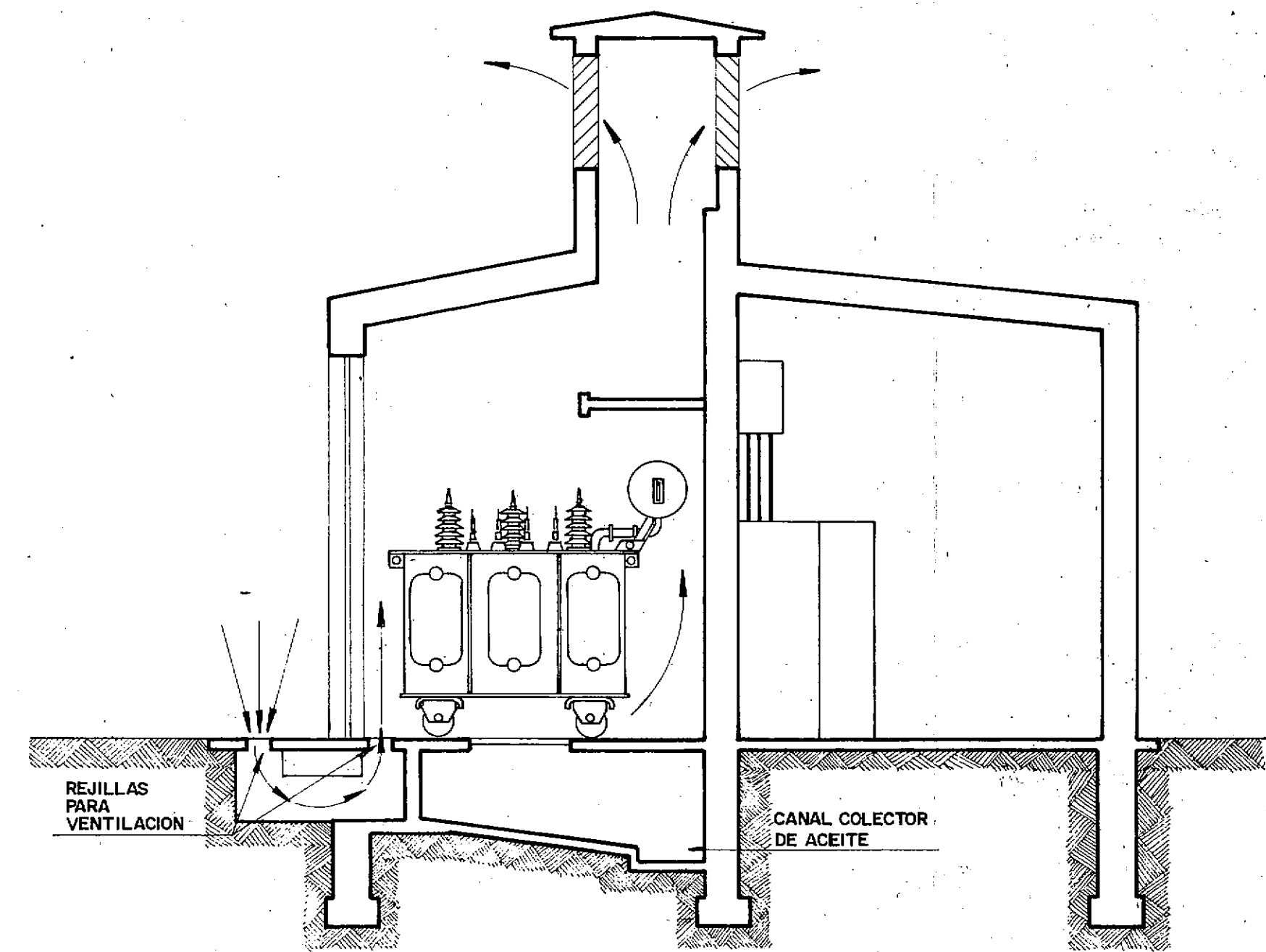
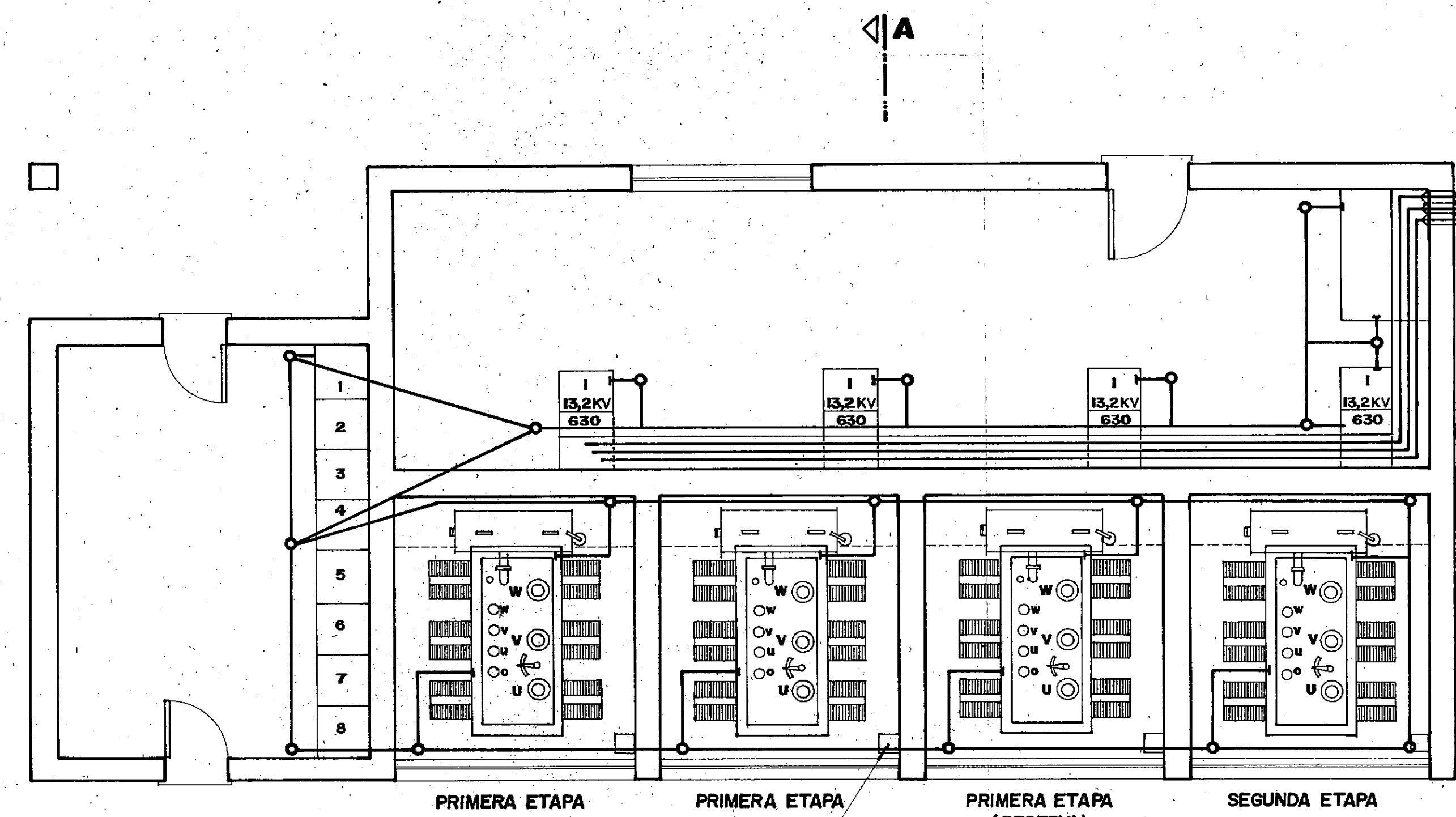
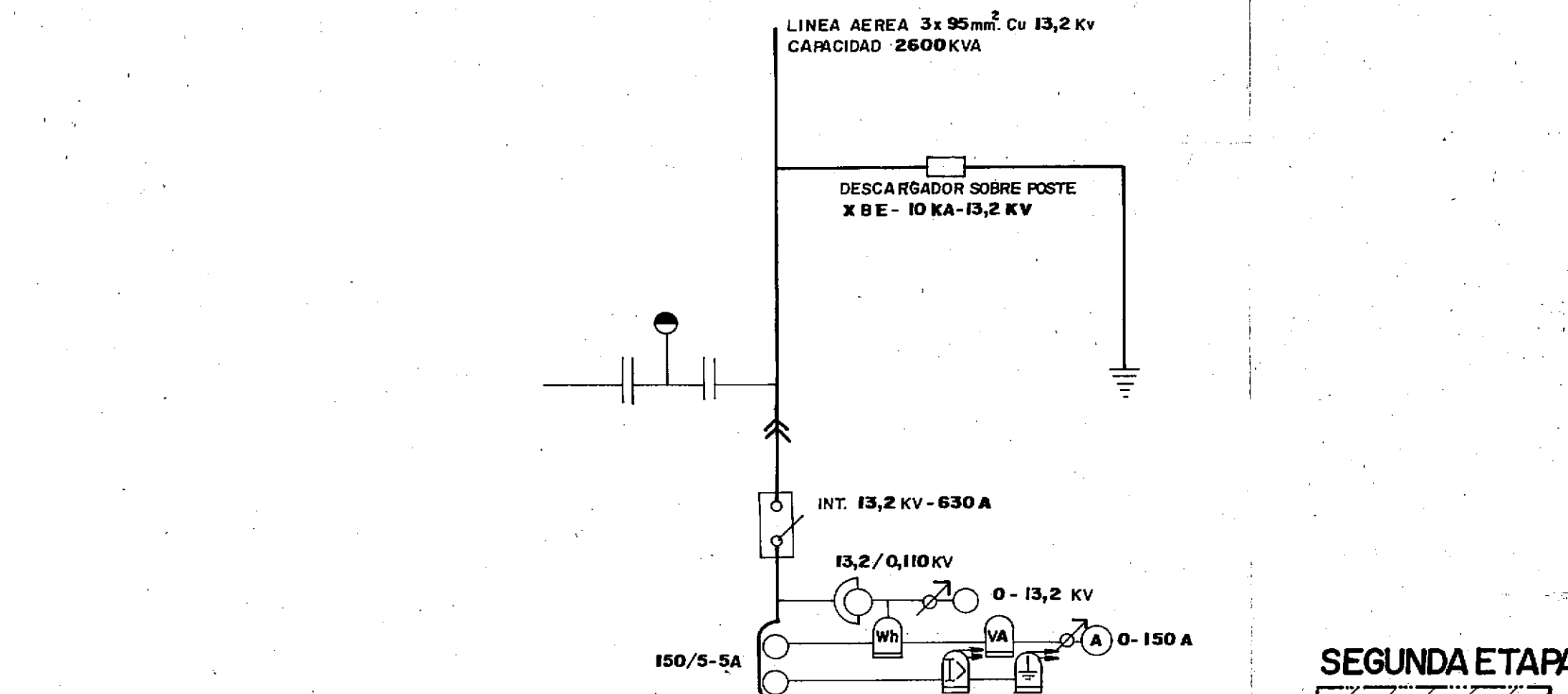
REFERENCIAS

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- SEGUNDA ETAPA
- CABLE PILOTO PRIMERA ETAPA
- SEGUNDA ETAPA
- C.A.S. CABLE ARMADO SUBTERRANEO PARA ILUMINACION PRIMERA ETAPA
- SEGUNDA ETAPA
- LUMINARIA
- ⊠ TABLEROS SECCIONALES

C.F.I. CONSEJO FEDERAL DE INVERSIONES
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 ESTABLECIMIENTO DEPURADOR CLOACAL
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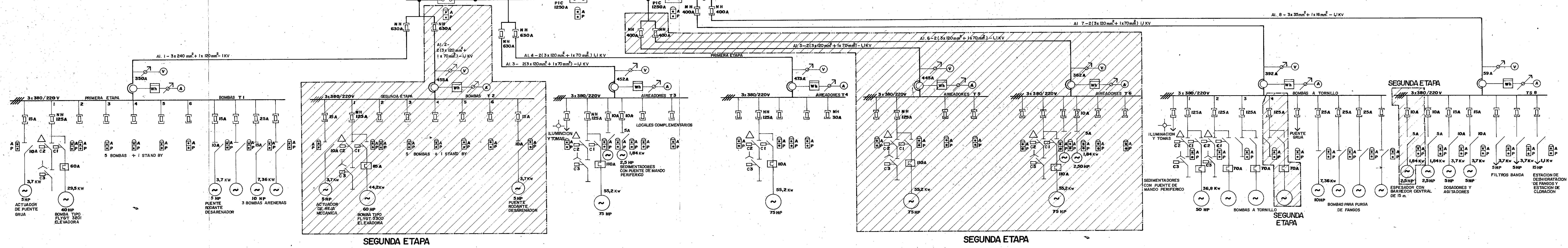
VºBº	FECHA:
PROYECTO	ING. MARCELO J. PUJOL
DIBUJO	PLANO N° 35
	ESCALA: 1:300

NOTA: ESTE PLANO ES COPIA DEL PLANO "ESTABLECIMIENTO DEPURADOR CLOACAL SAN CARLOS DE BARILOCHE" DIAGRAMA MIMICO N°2 DEL CONSEJO FEDERAL DE INVERSIONES, AREA ORGANIZACION ESTATAL, DEPARTAMENTO EQUIPAMIENTO ESTATAL, PROYECTO DEL ING° MOISES MANDLER, NOVIEMBRE 1990

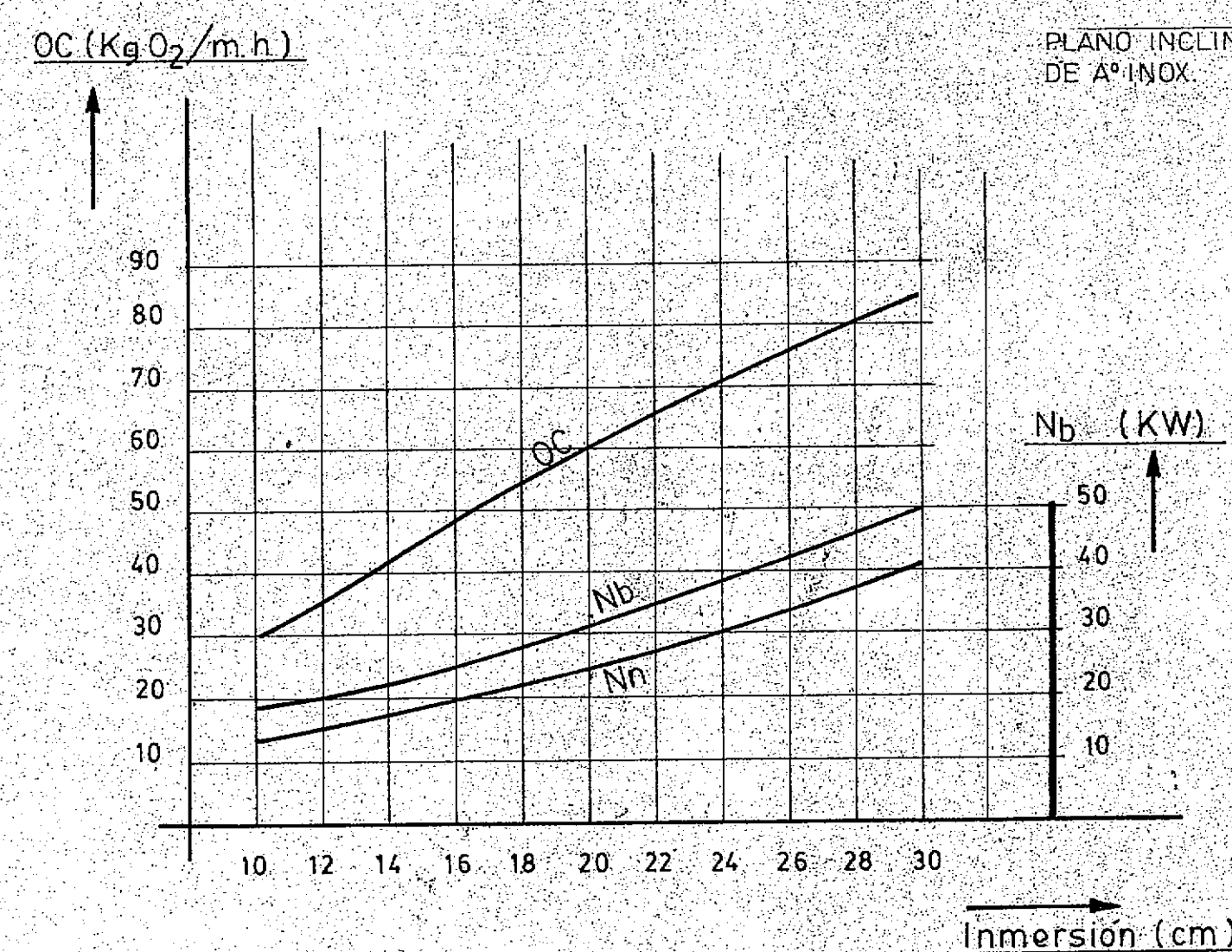
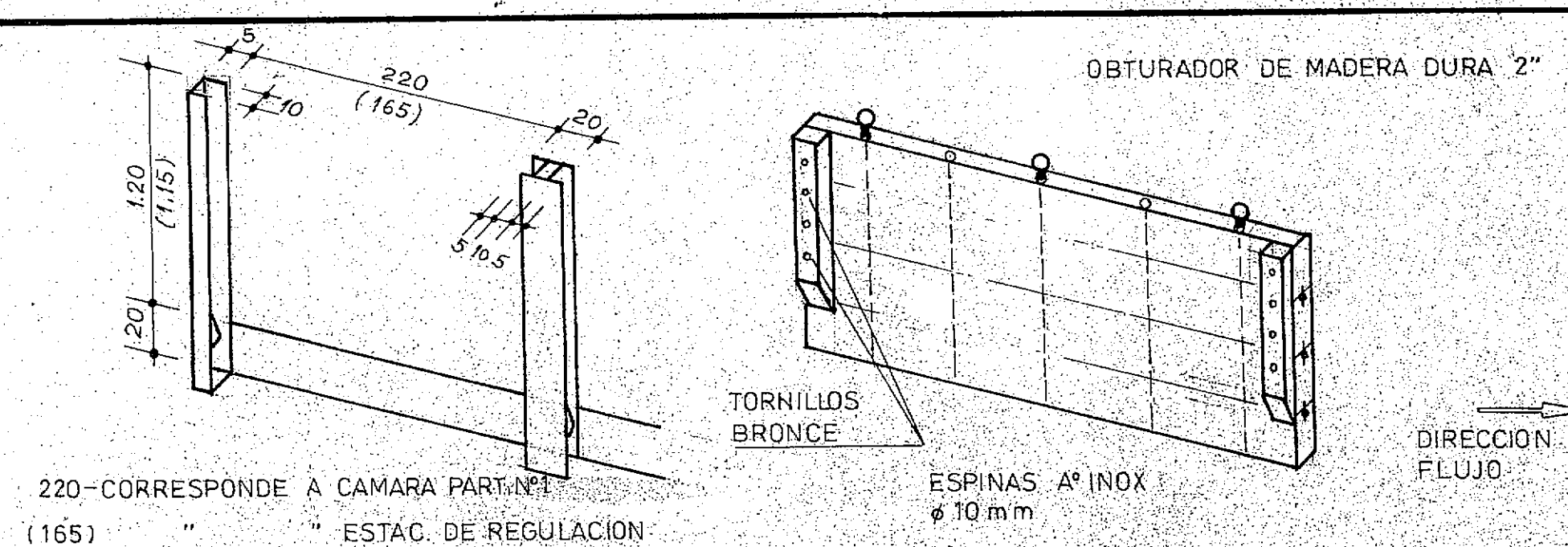


PLANTA

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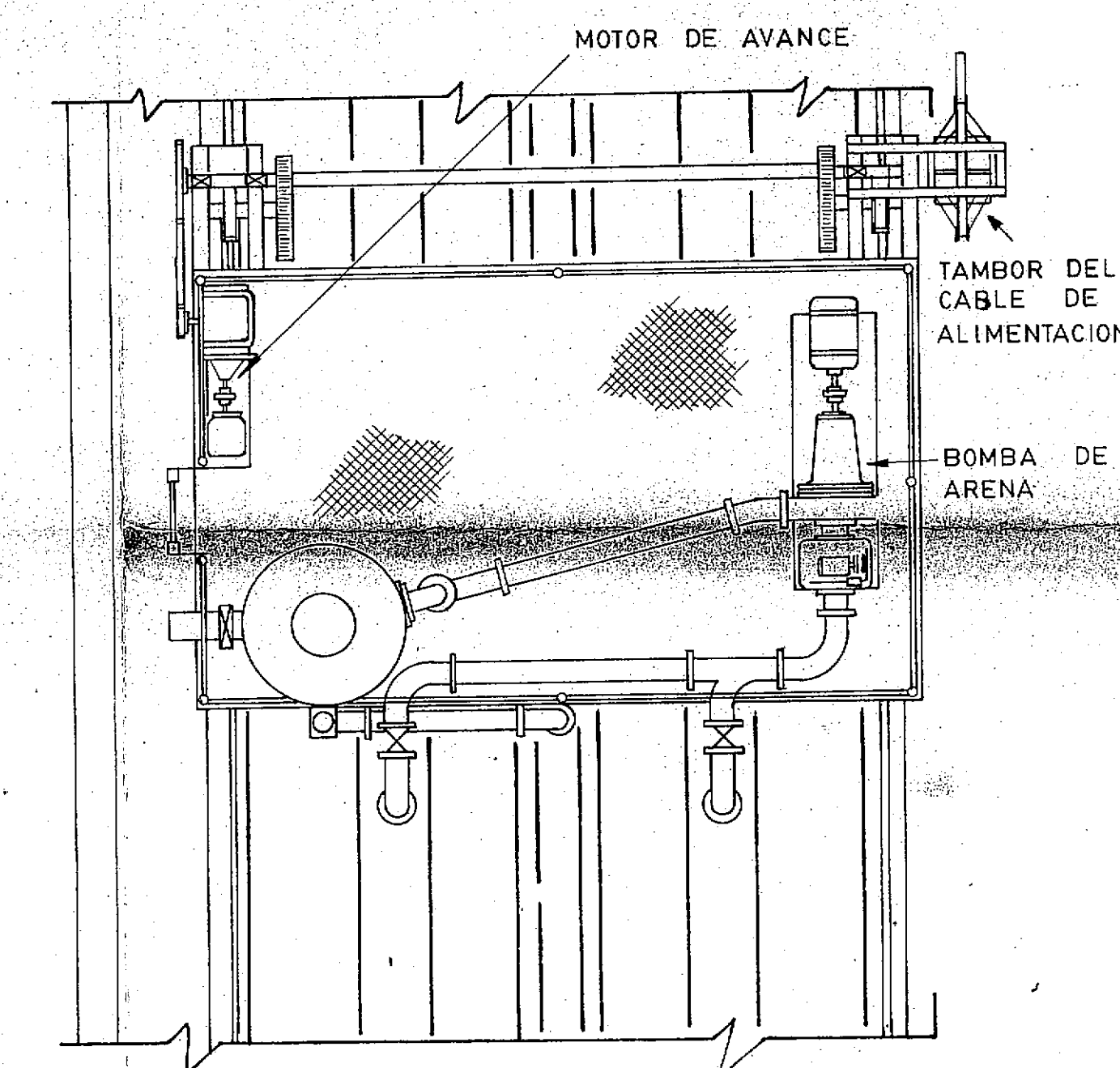
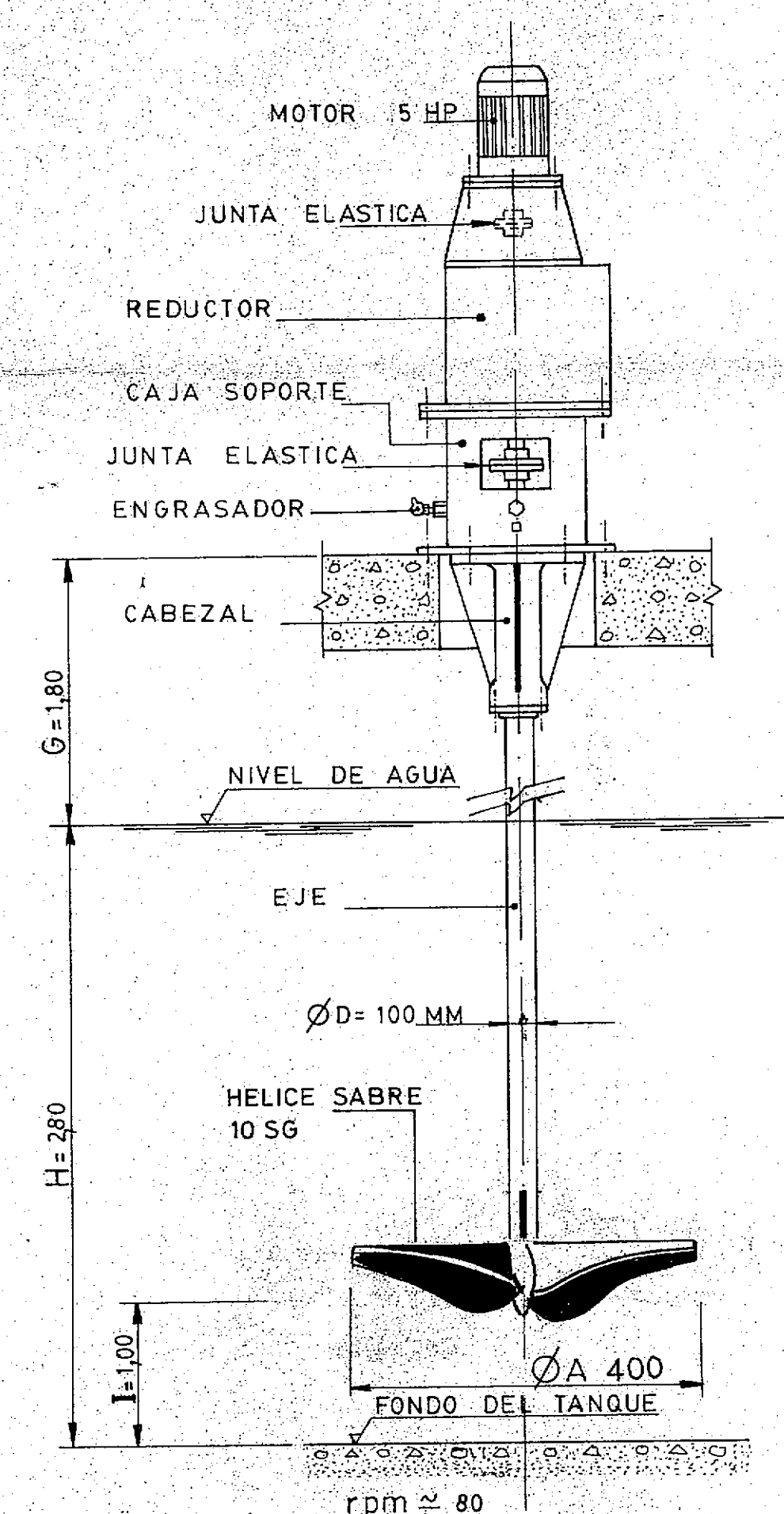
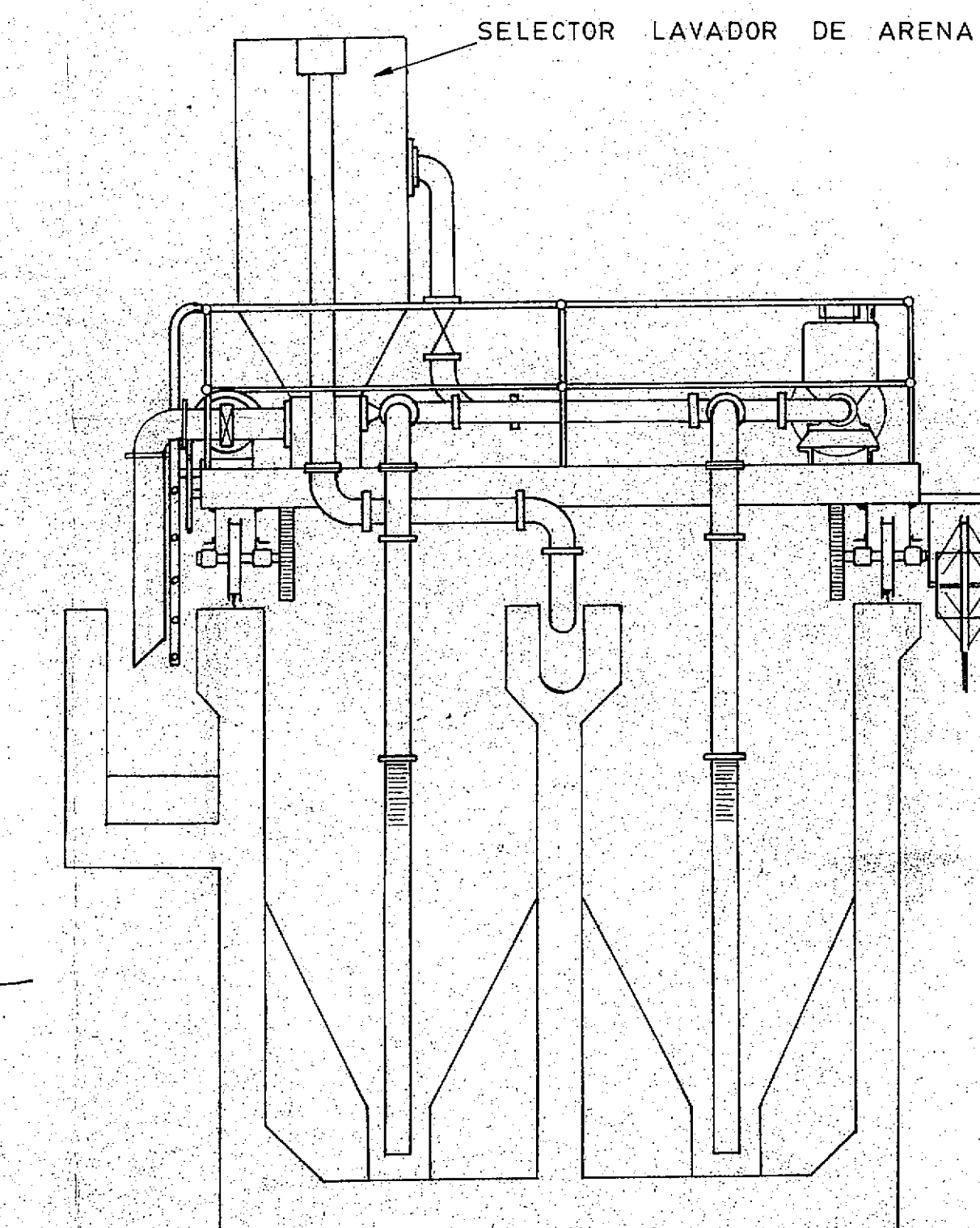
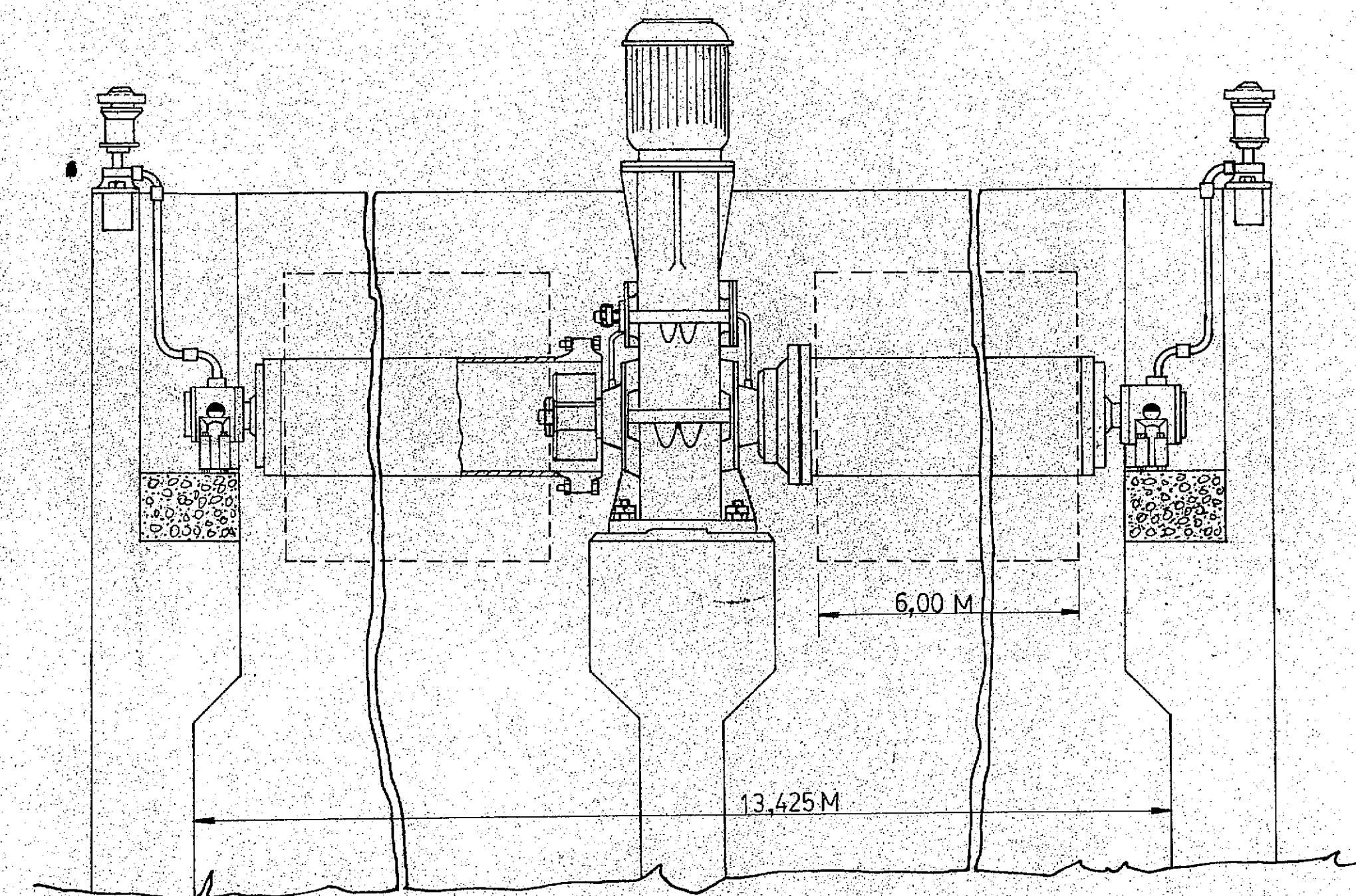
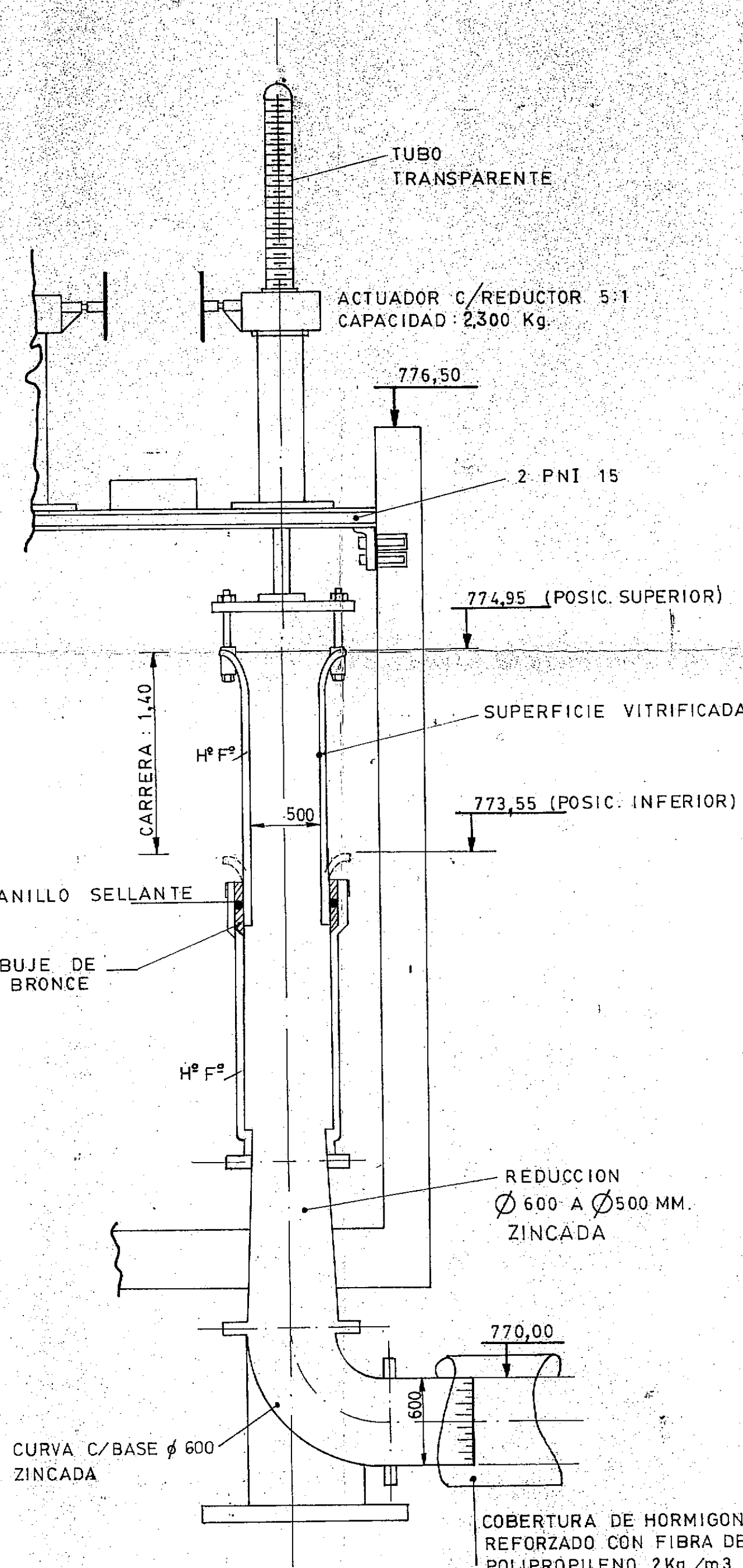
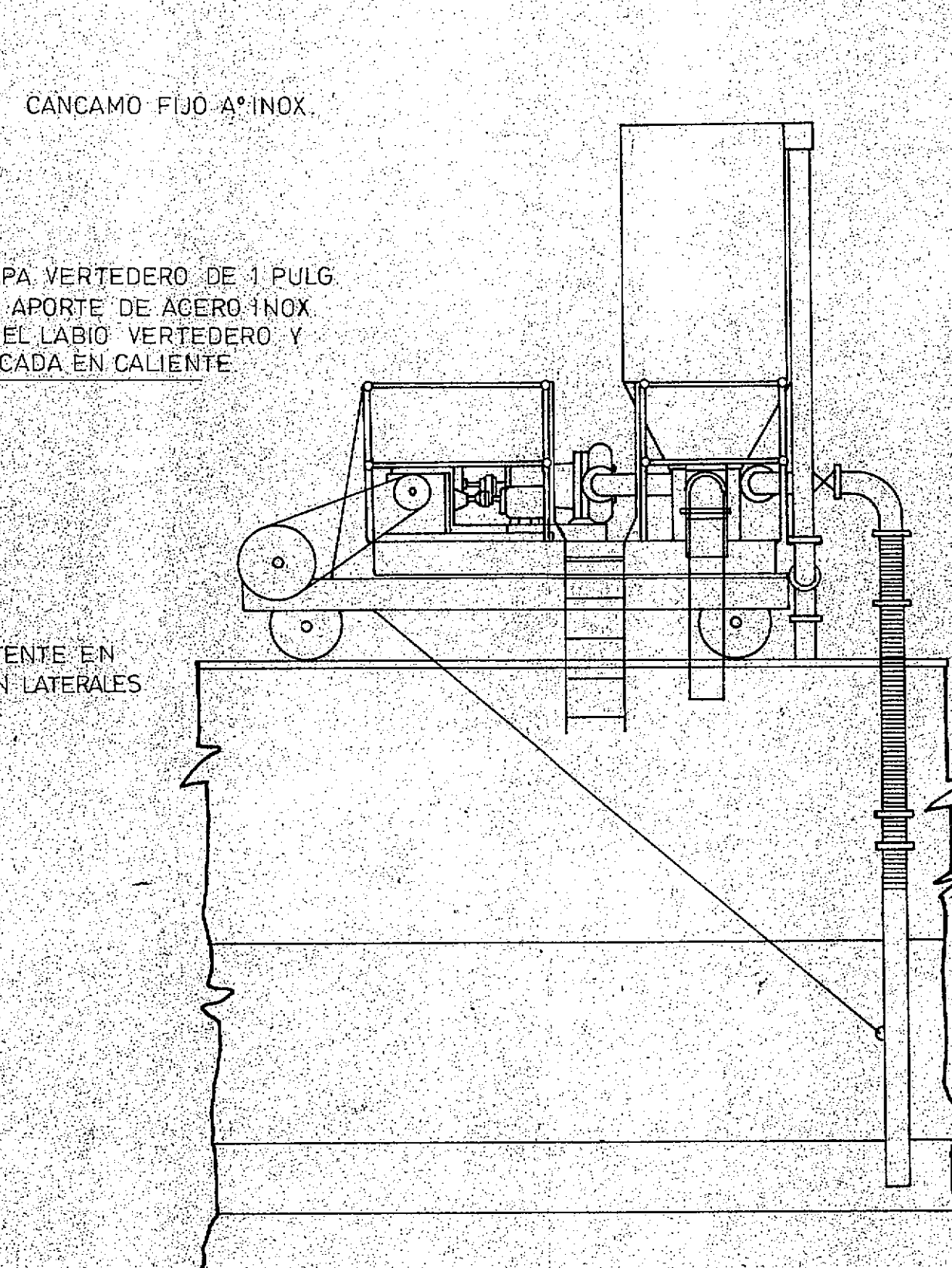
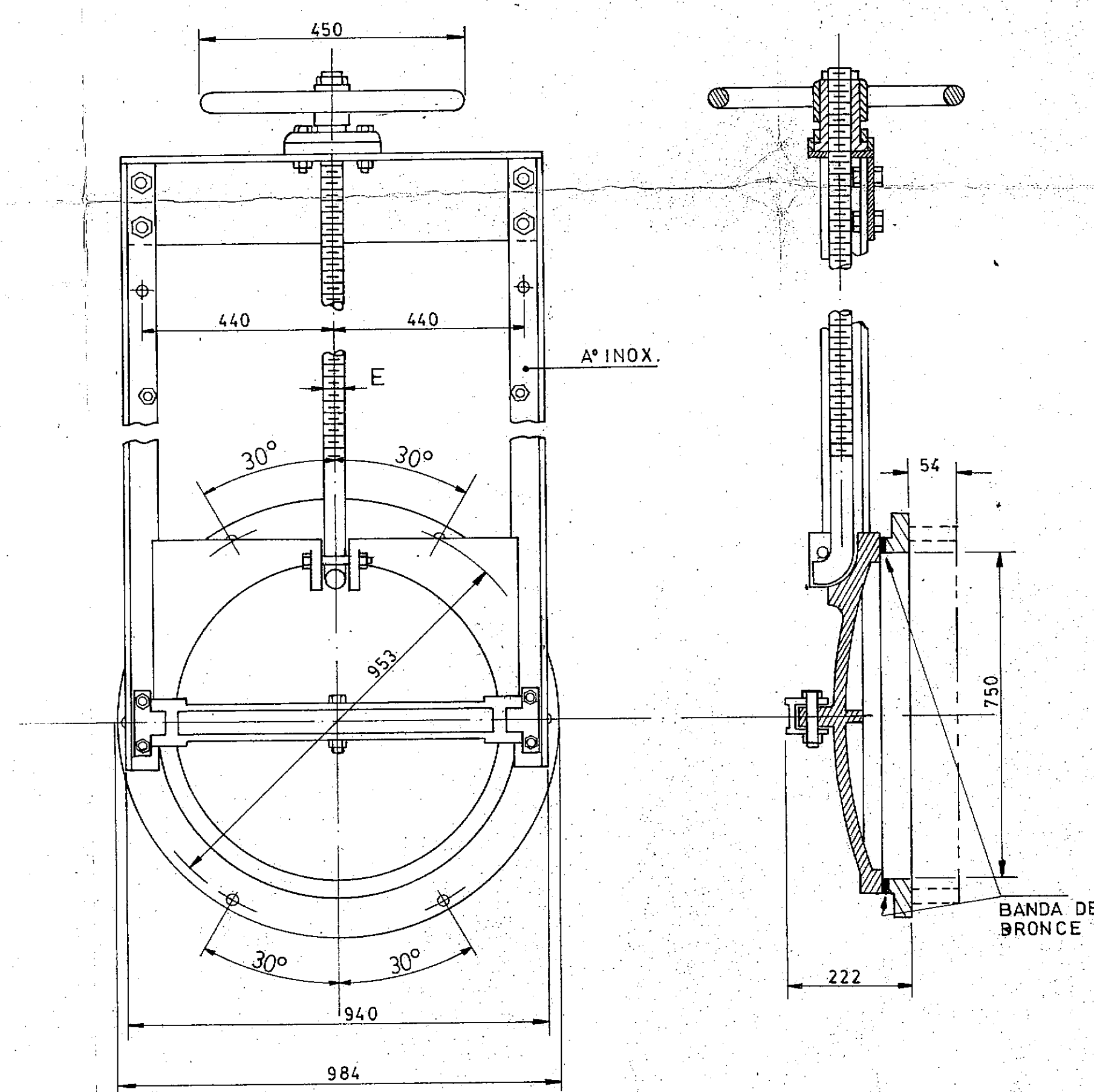


C.F.I. CONSEJO FEDERAL DE INVERSIONES		
SAN CARLOS DE BARILOCHE		
ESTABLECIMIENTO DEPURADOR CLOACAL		
DIAGRAMA MIMICO Y ESTAC. DE TRANSFORMACION		
V° B°		FECHA:
PROYECTO	ING. MARCELO J. PUJOL	PLANO N°
DIBUJO		36
		ESCALA: 5/E.



CURVAS CARACTERISTICAS DE LOS AIREADORES

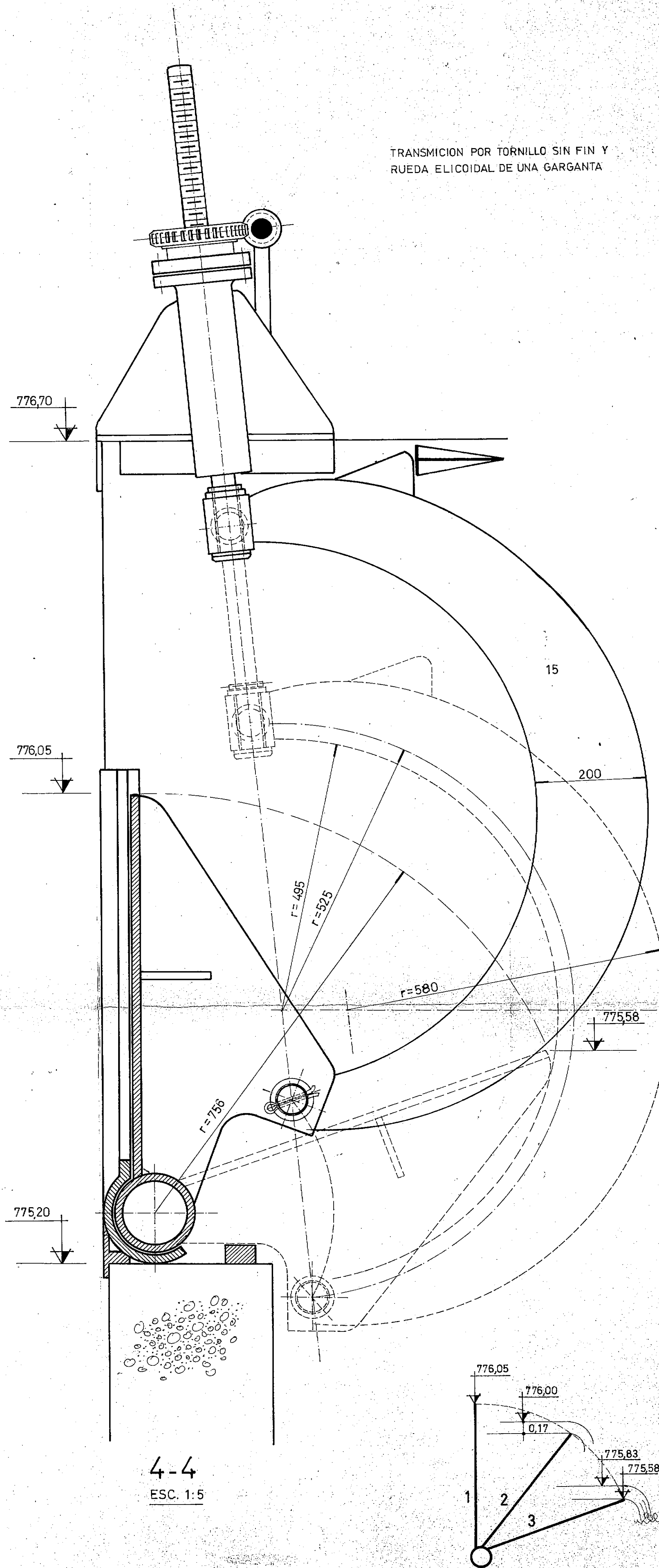
Nb: potencia bruta requerida por m de cepillo, en la línea.
Nn: potencia neta requerida por m de cepillo, en el eje del aireador.



C.F.I. CONSEJO FEDERAL DE INVERSIONES
SAN CARLOS DE BARILOCHE
ESTABLECIMIENTO DEPURADOR CLOACAL
ELECTROMEKANISMOS 1
DISEÑOS BASICOS

V° B°		FECHA:
PROYECTO	ING. MARCELO J. PUJOL	PLANO N°
DIBUJO		37
		ESCALA: VARIAS

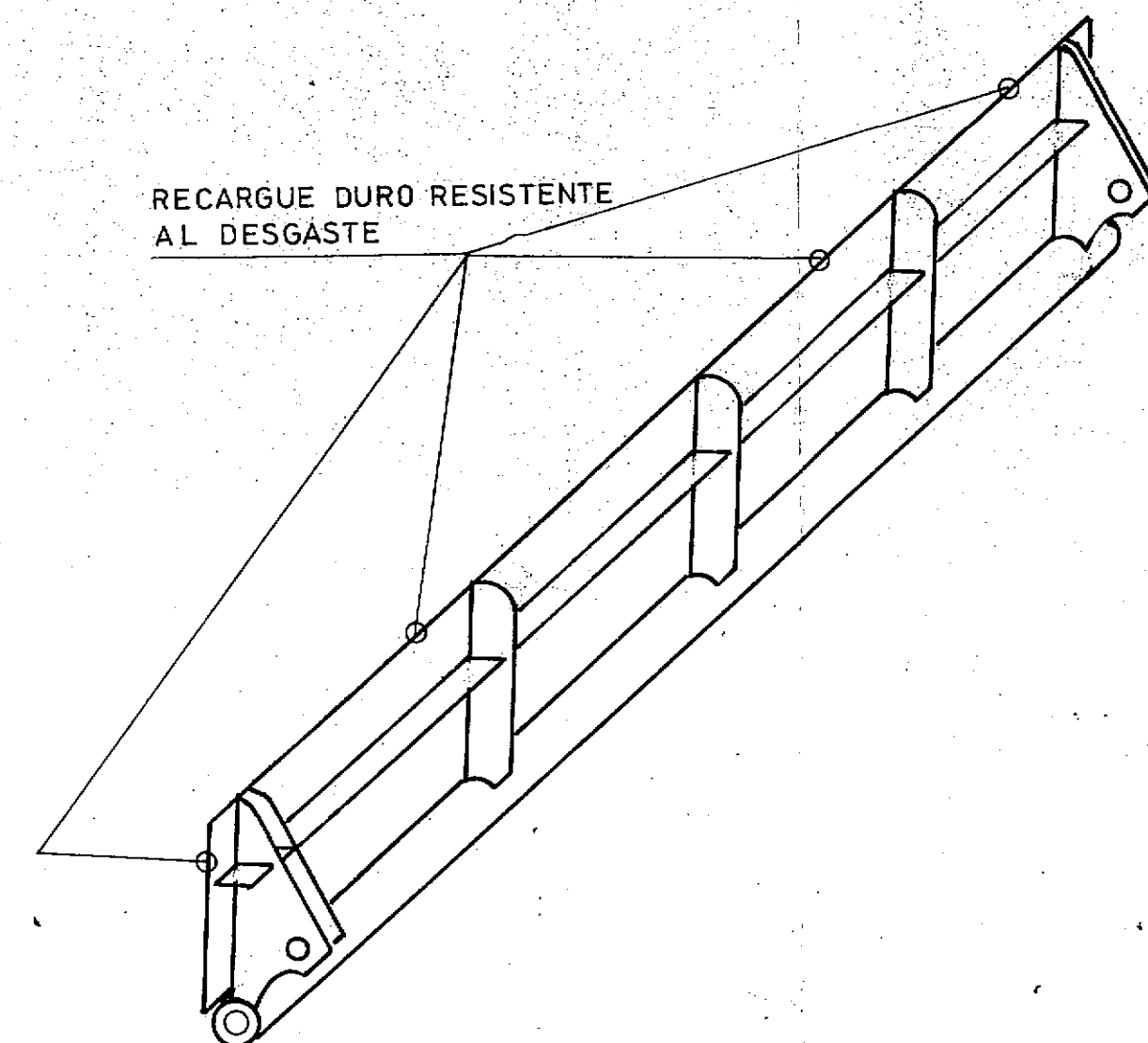
TRANSMISION POR TORNILLO SIN FIN Y RUEDA ELICOIDAL DE UNA GARGANTA



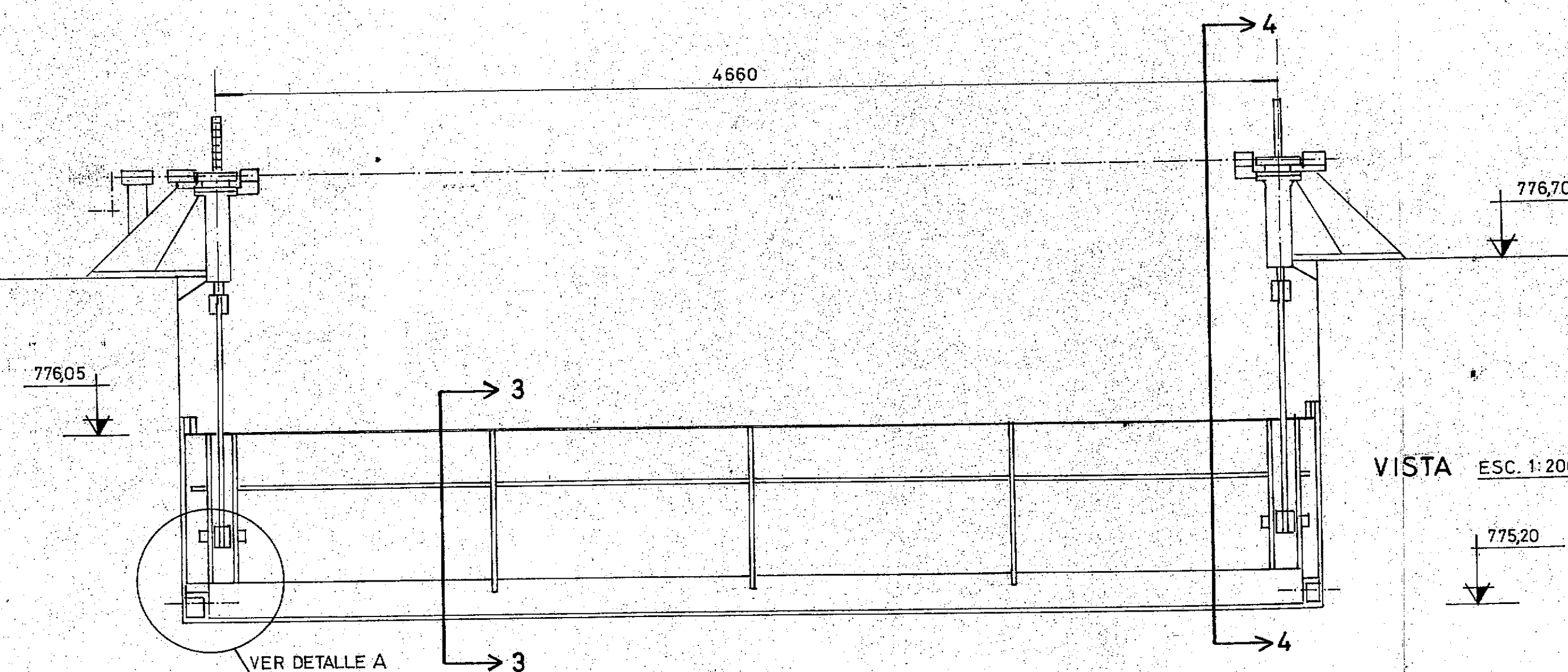
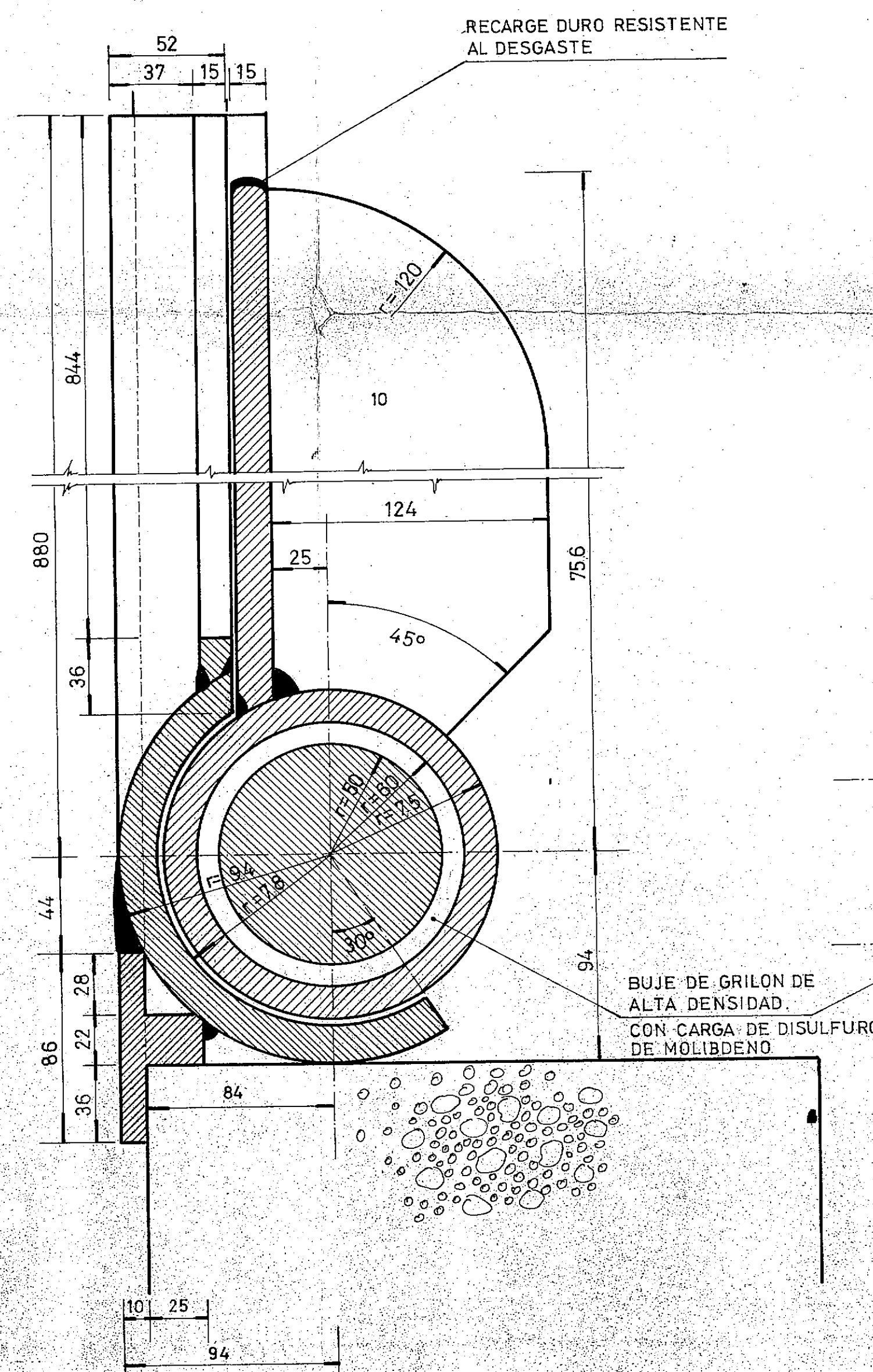
4-4
ESC. 1:5

- 1- POSICION CERRADA C / 5 cm.
2- PLENO CAUDAL A NIVEL MAXIMO
3- PLENO CAUDAL A NIVEL MINIMO

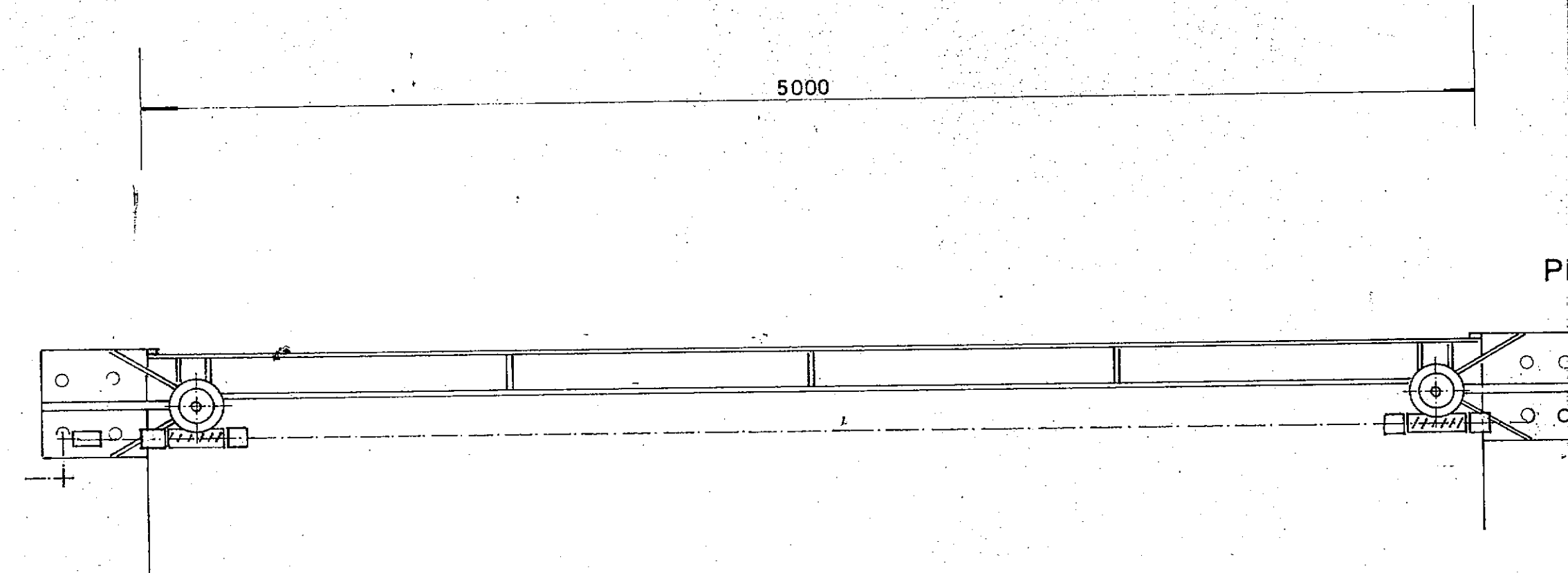
CARRERA MAXIMA DE LA COMPUERTA EN EL BORDE : 776,05-775,58 = 0,48 M.



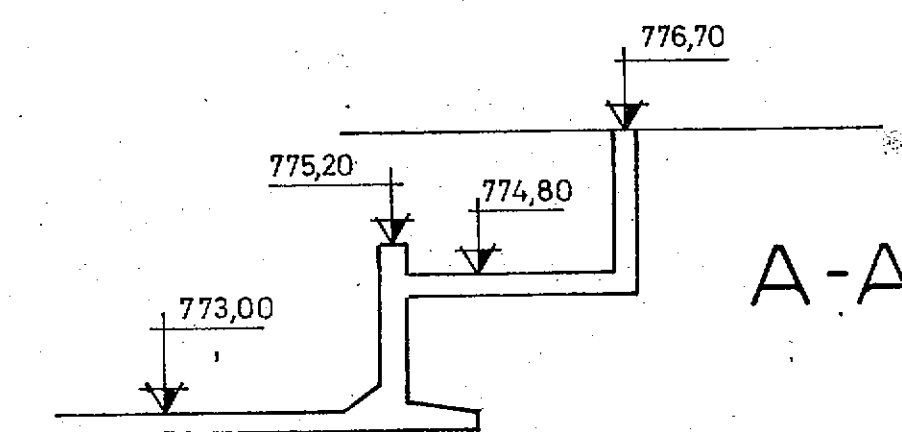
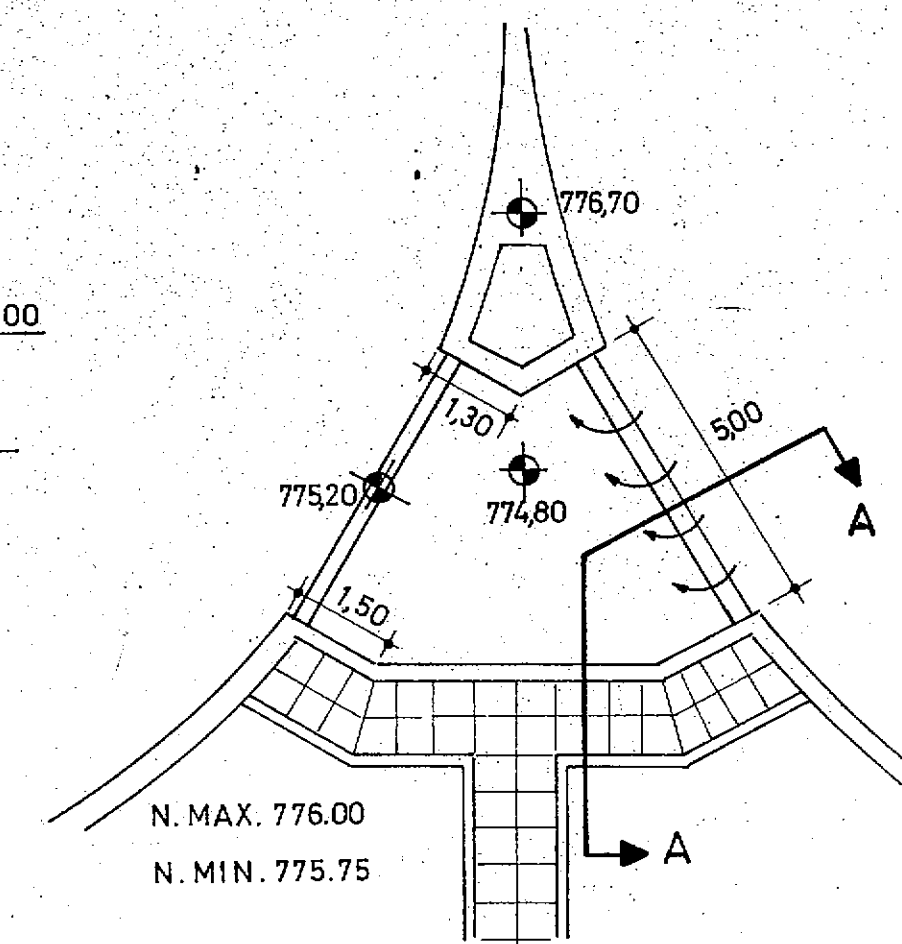
3-3
ESC. 1:2



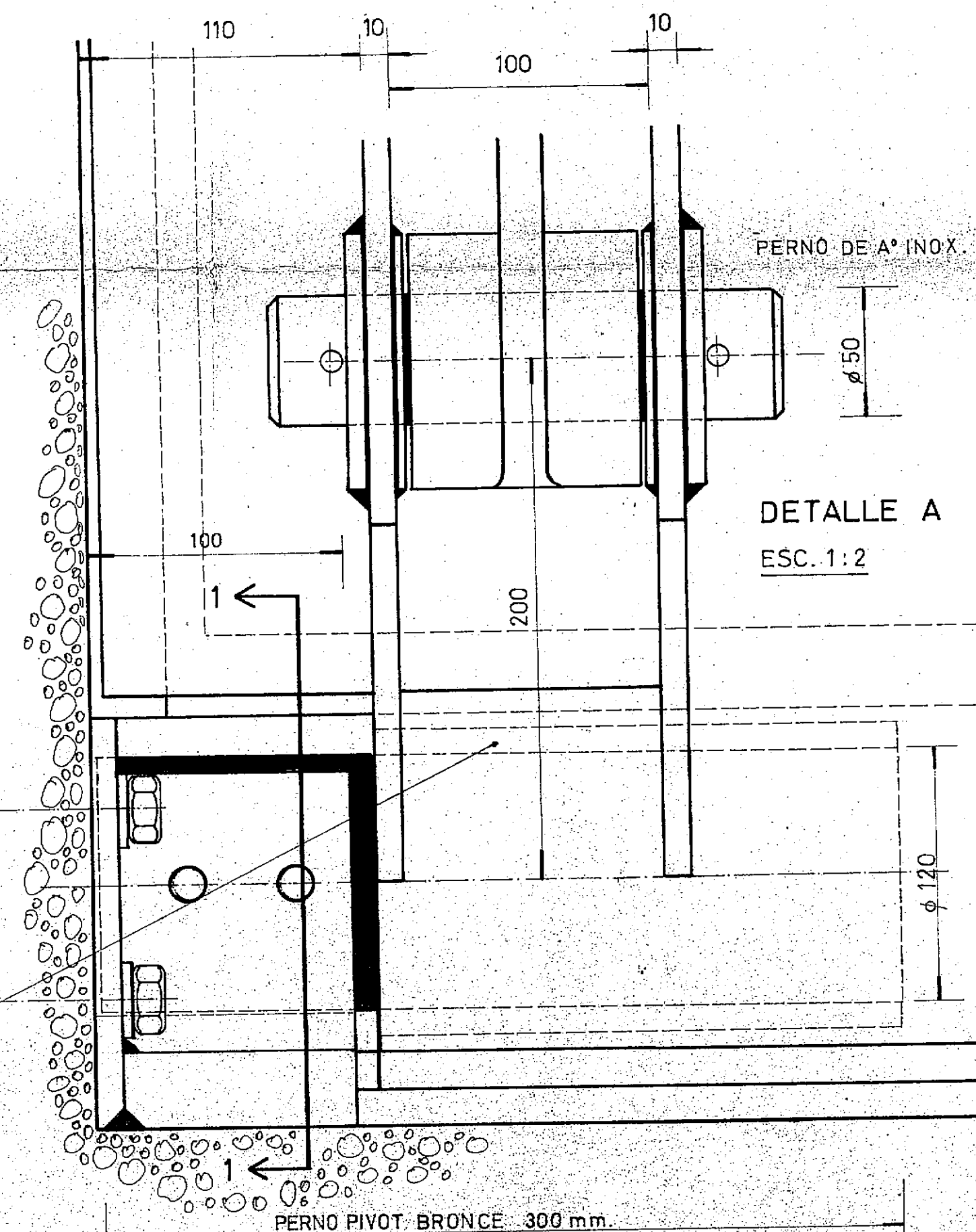
VISTA ESC. 1:200



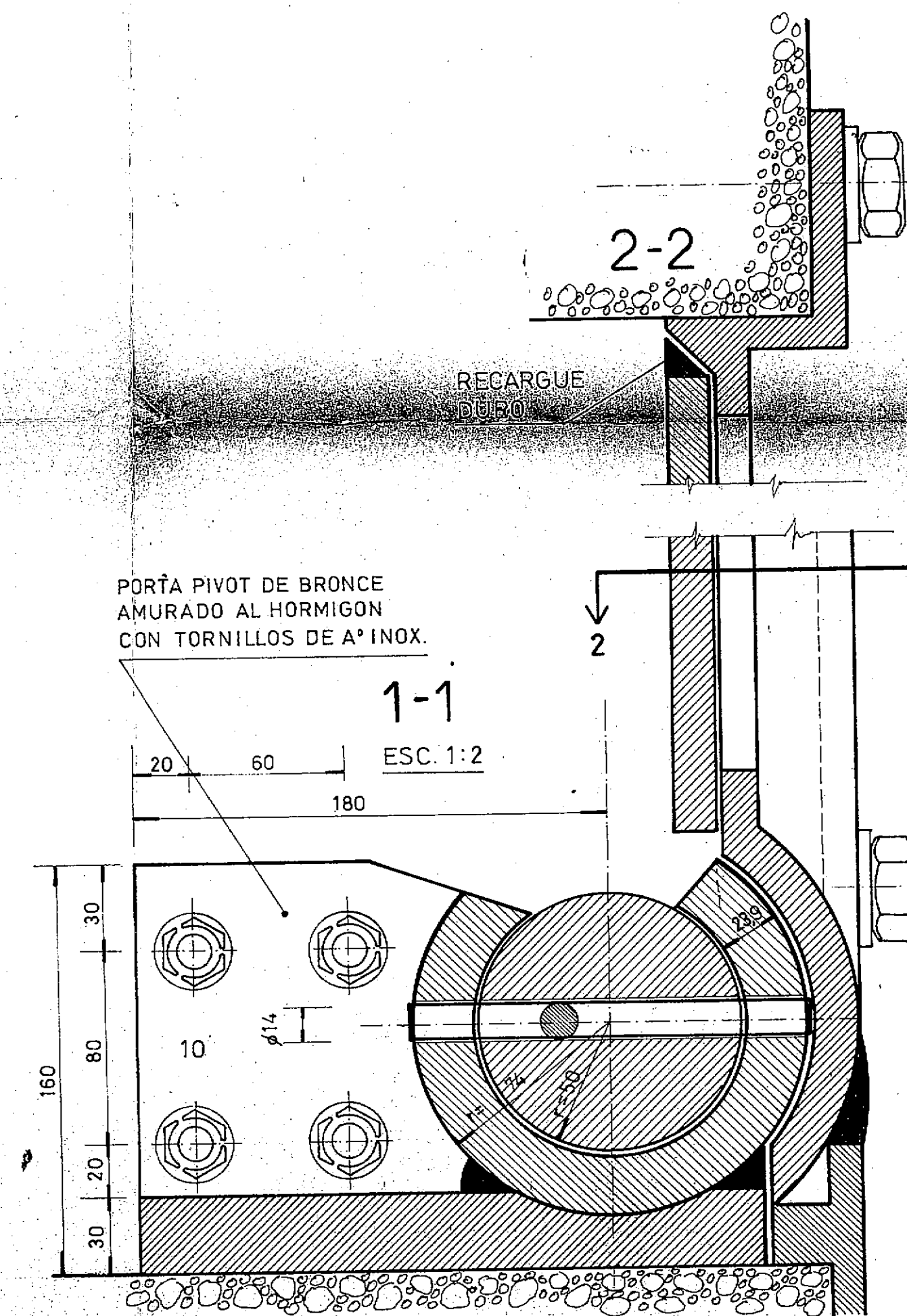
PLANTA ESC. 1:200



A-A



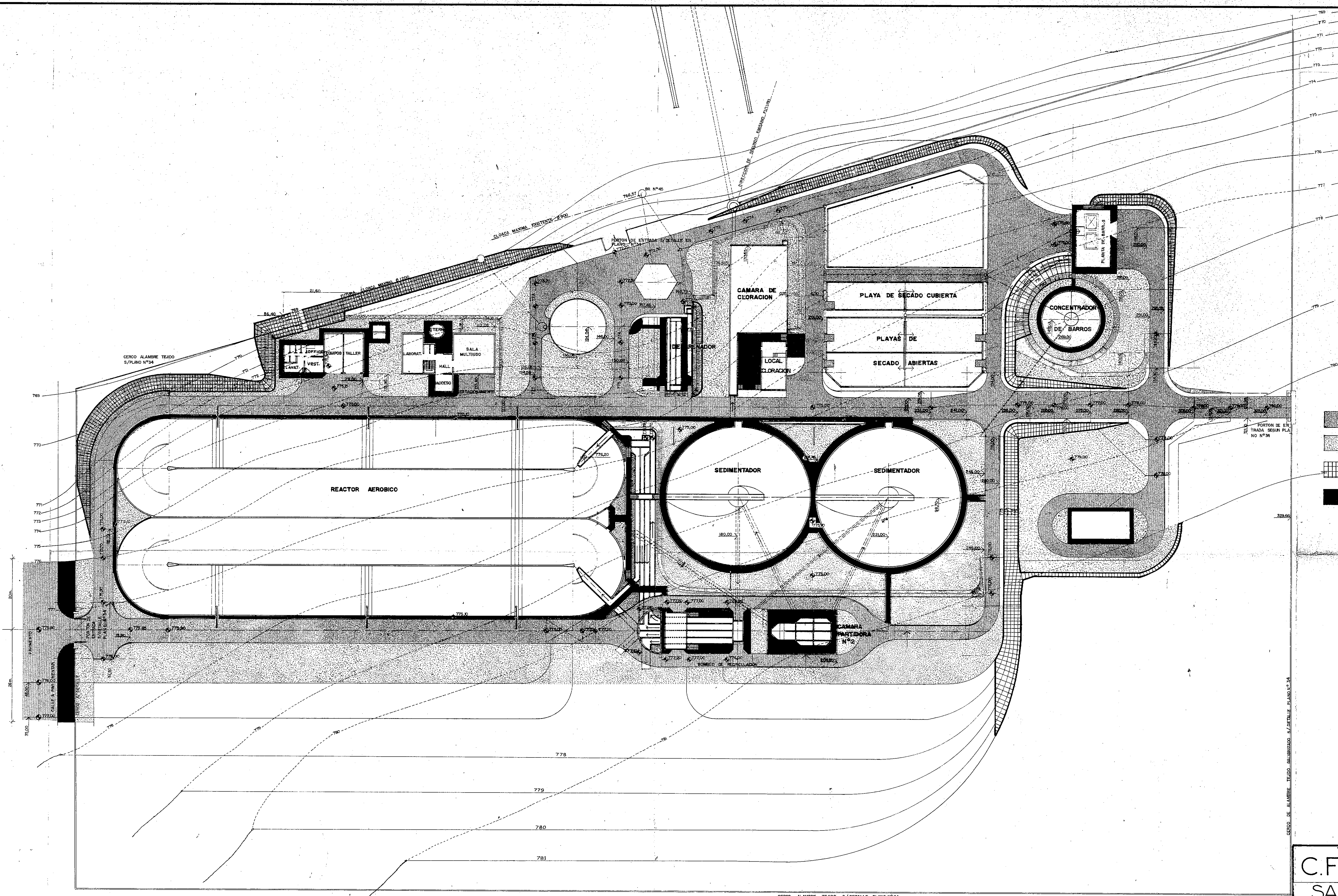
DETALLE A
ESC. 1:2



1-1
ESC. 1:2

- NOTAS:
- LA CHAPA A UTILIZAR SERA SAE 1020 CALMADA AL SILICIO DOBLE DECAPADA.
POSTERIORMENTE A SOLDADURAS Y MAQUINADOS SE SOMETERA A UN ZINCADO EN CALIENTE, CANT./MIN. ZINC. 800 g/m².
- LLEVARA UN RECUBRIMIENTO DE 200 Micr. Min. DE PINT.EPOXY S/N.IRAM 1196-1197 PREVIO WASH PRIMER S/N.IRAM 1186.

C.F.I. CONSEJO FEDERAL DE INVERSIONES		
SAN CARLOS DE BARILOCHE		
ESTABLECIMIENTO DEPURADOR CLOACAL		
ELECTROMECAENISMOS 2		
DISENOS BASICOS		
V°B°		FECHA
PROYECTO	ING. MARCELO PUJOL	PLANO N°
		38
DIBUJO		ESCALA: 1:2 1:5 1:200



- REFERENCIAS
- PAVIMENTO DE H° SIMPLE S/ESPECIFICACIONES.
 - CAPA DE SUELO VEGETAL ESPESOR 10 cm.
 - PROTECCION DE TALUDES RIP-RAP S/ESPECIFICACIONES.
 - VEREDA DE LAJAS PREMOLEADAS DE H° ARMADO LAVADO DE 0.50 x 0.50 SOBRE CONTRAPISO DE H° POBRE DE 10 cm. DE ESPESOR Y CORDONES DE H° ARMADO DE 0.10 x 0.30.

C.F.I. CONSEJO FEDERAL DE INVERSIONES
SAN CARLOS DE BARILOCHE
ESTABLECIMIENTO DEPURADOR CLOACAL
SUELOS Y SOLADOS

V°B°		FECHA
PROYECTO	ING. MARCELO J. PUJOL	PLANO N° 39
DIBUJO		ESCALA: 1:500