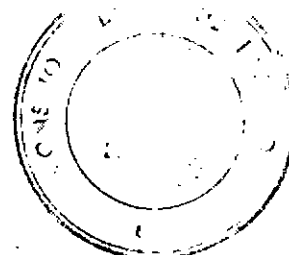


1348

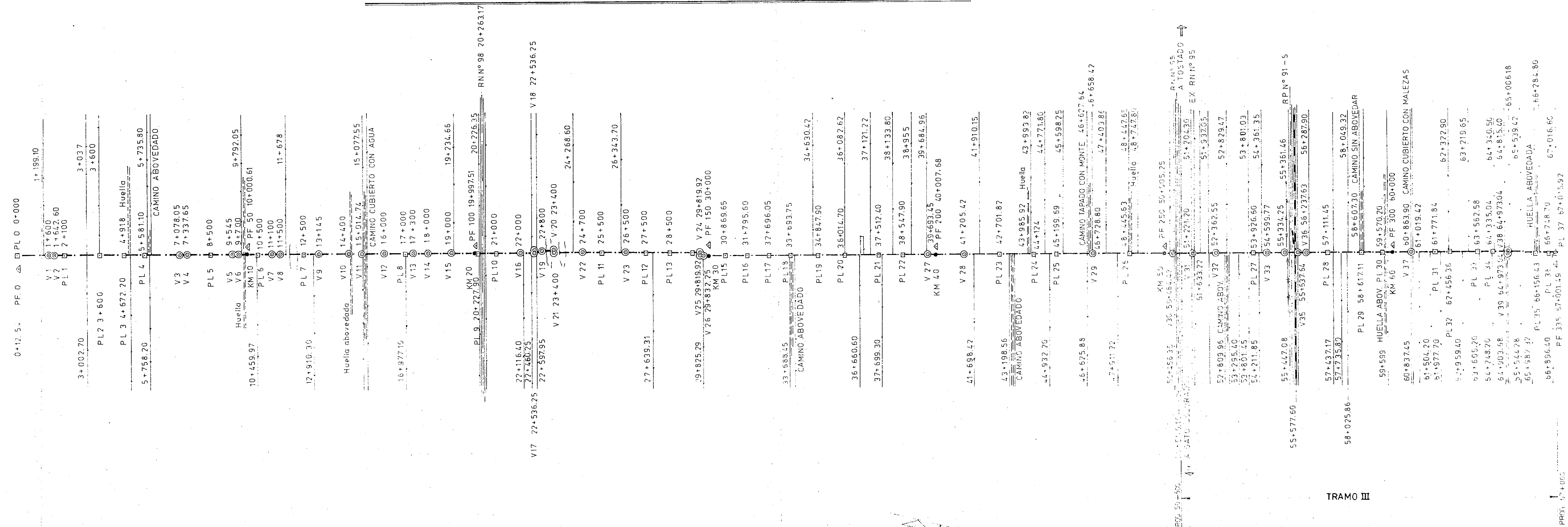
VI

COMITE HIDROVIAL DE TOSTADOOBRA N° 3: TRAMO IIIProg. 50+600 a 67+000

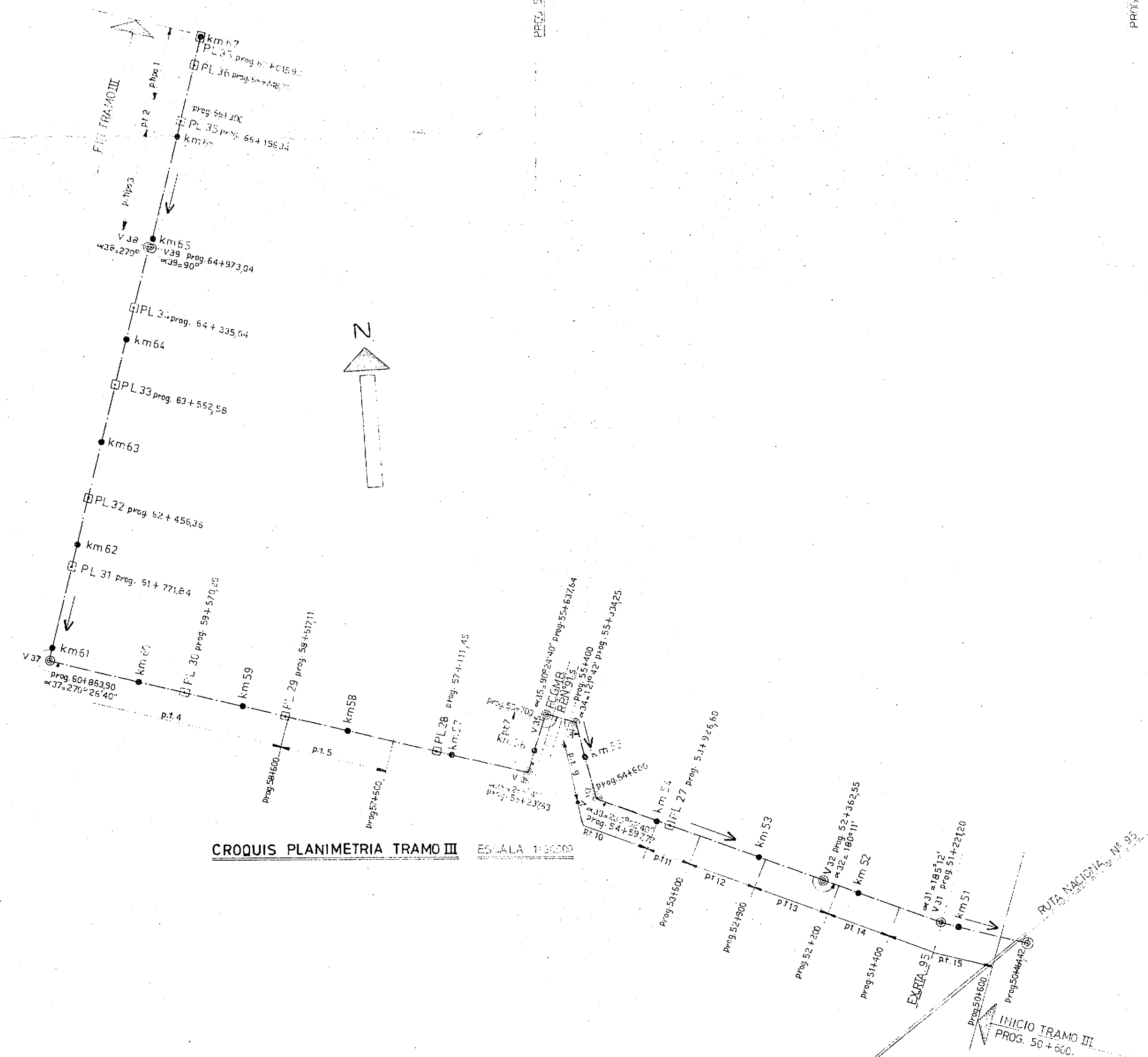
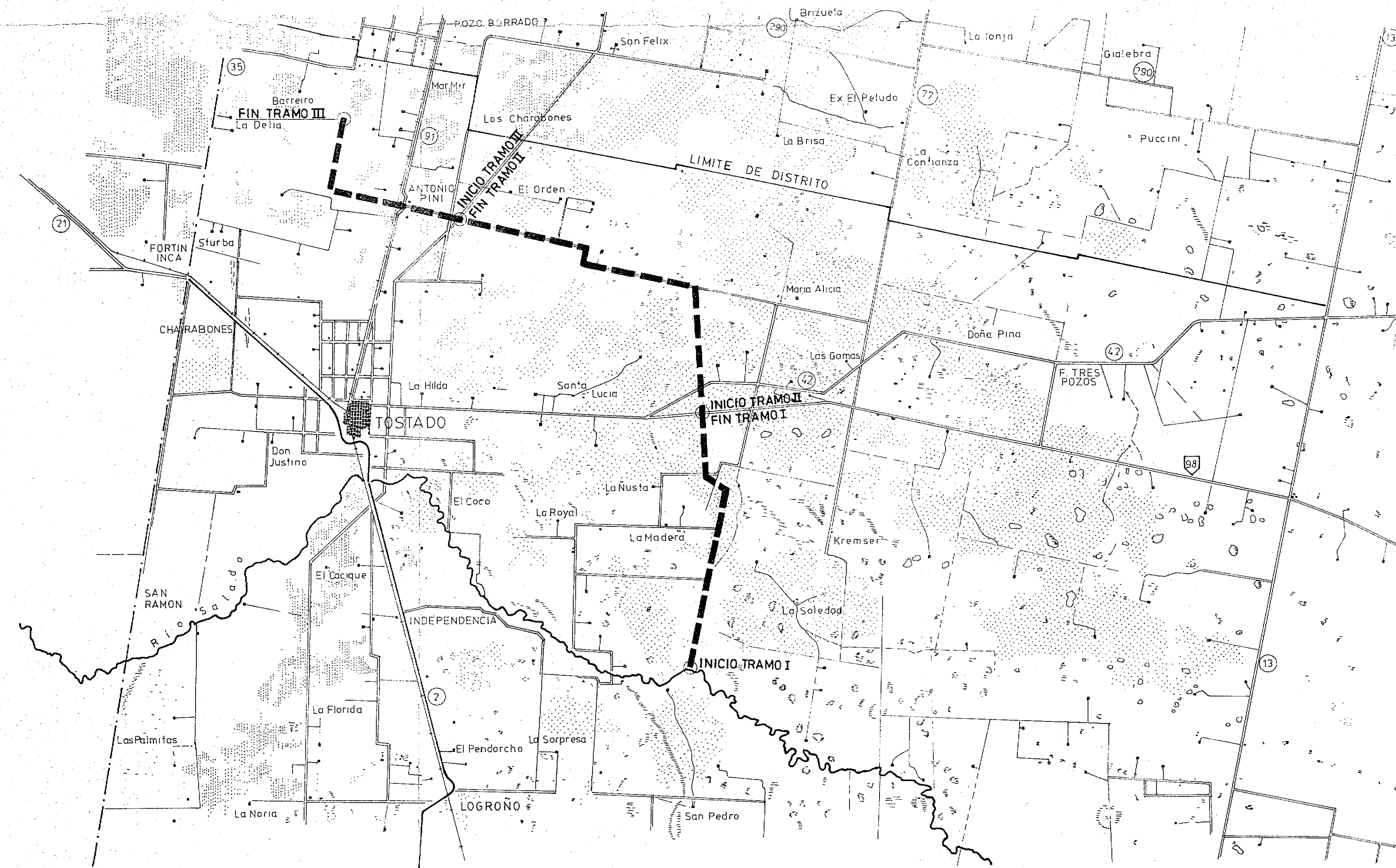
- PLANOS -



PLANIMETRIA GENERAL



U B I C A C I O N



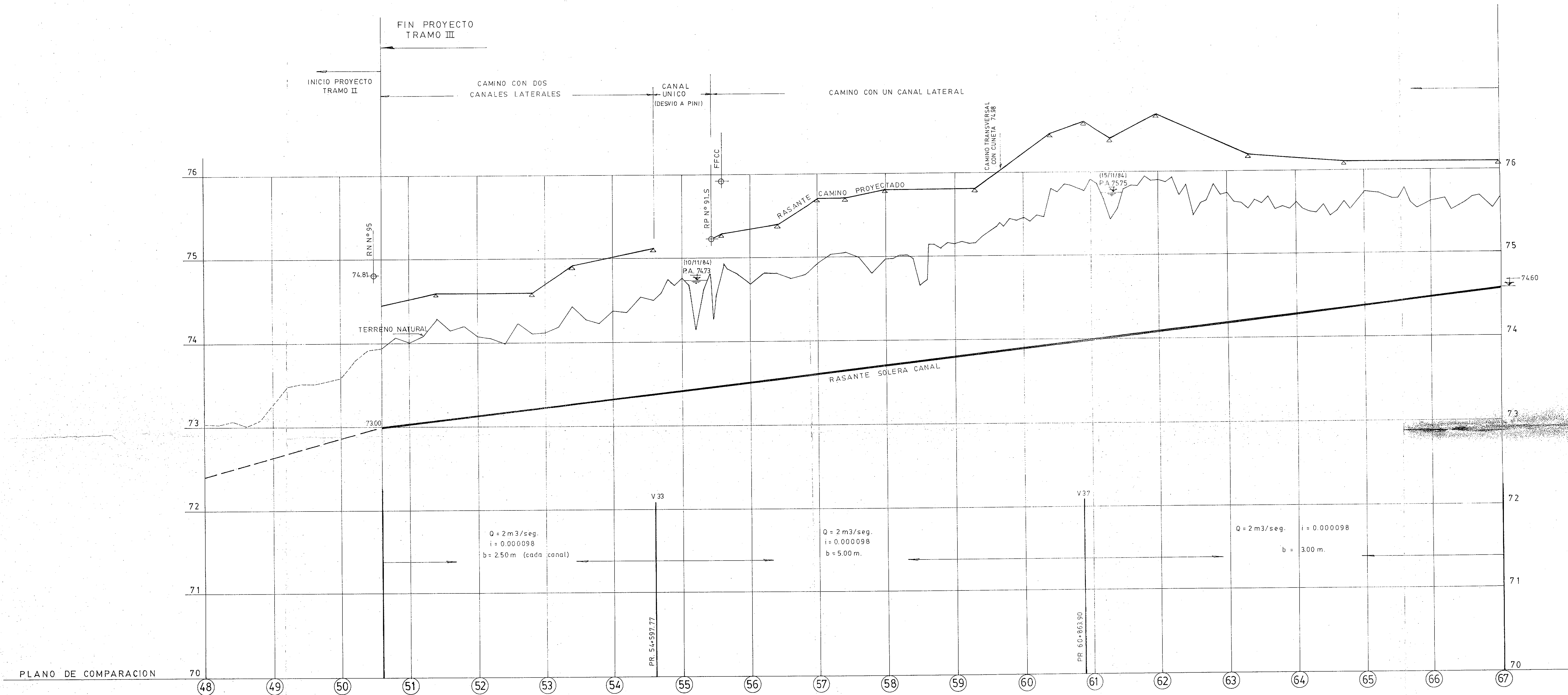
- VERTICE
- PUNTO DE LINEA
- PUNTO FIJO
- KILOMETRO
- ALAMBRADO EXISTENTE
- LINEA ALTA TENSION
- FERROCARRIL
- HUELLA O CAMINO
- EJE ESTUDIO
- ALCANTARILLAS LONGITUDINALES
- EXISTENTES
- CONSTRUIR
- ALCANTARILLAS TRANSVERSALES

CONVENIO BAJOS SUBMERIDIONALES		CONSEJO FEDERAL DE INVERSIONES	
UNIDAD TECNICA SANTA FE		PROVINCIA DE SANTA FE	
TOPOGRAFIA	ING. A. TOSTI J. BERTOLINO	COMITE HIDROVIAL TOSTADO	
PROYECTADO	ING. CAPELLI ING. BERZERO ING. TOSTI		
DIBUJADO	TEC. BONIFUGIO TEC. MASCHERONI	OBRA N°3 PLANIMETRIA GENERAL	
RESPONSABLE TECNICO	ING. D. DEPRITIS		
OBSERVACIONES:		ESCALA:	

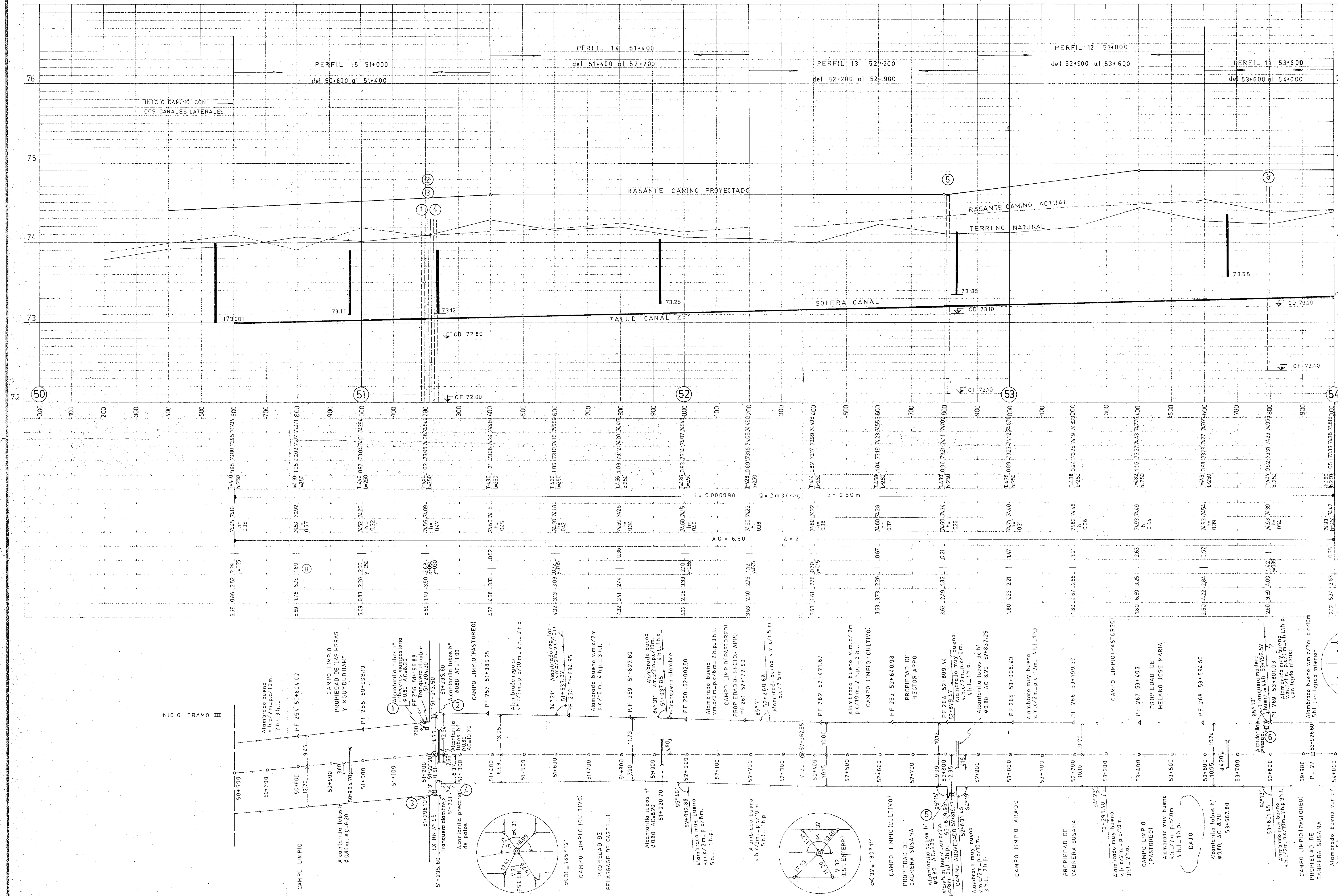
ESCALA:

FECHA FEBR

Nº DE PLANO



CONVENIO BAJOS SUBMERIDIONALES		CONSEJO FEDERAL DE INVERSIONES	
UNIDAD TECNICA SANTA FE		PROVINCIA DE SANTA FE	
TOPOGRAFIA:	ING. A. TOSTI J. BERTOLINO	COMITE HIDROVIAL TOSTADO	
PROYECTADO:	ING. C. CAPPELLI ING. A. TOSTI	PERFIL LONGITUDINAL TRAMO III	
DIBUJADO:	TEC. U. BONFIGLIO TEC. J. MASCHERONI	PROGRESIVA 50+600 A 67+000	
RESPONSABLE TECNICO:	ING. D. DEPETRIS		
OBSERVACIONES:		ESCALA V=1:20 H=1:25,000	
		FECHA: FEBRERO 1985	
		H/PLANC 02	



SIGNIFICADO DE LOS NUMEROS:

1. ALCANTARILLA LONGITUDINAL IZQUIERDA TIPO "E" PROG. 51+196
AC=6.00m. L=2.00m. H=1.50 G=0.80 CD=72.80 CF=72.00
2. ALCANTARILLA LONGITUDINAL IZQUIERDA TIPO "E" PROG. 51+220
AC=8.00m. L=2.00m. H=1.50 G=0.80 CD=72.80 CF=72.00
3. ALCANTARILLA LONGITUDINAL DERECHA TIPO "E" PROG. 51+220
AC=8.00m. L=2.00m. H=1.50 G=0.80 CD=72.80 CF=72.00
4. ALCANTARILLA LONGITUDINAL DERECHA TIPO "E" PROG. 51+238
AC=6.00m. L=2.00m. H=1.50 G=0.80 CD=72.80 CF=72.00
5. ALCANTARILLA LONGITUDINAL DERECHA TIPO "E" PROG. 52+820.70
AC=8.00m. L=2.00m. H=1.50 G=0.80 CD=73.10 CF=72.10
6. ALCANTARILLA LONGITUDINAL IZQUIERDA TIPO "E" PROG. 52+795.50
AC=6.00m. L=2.00m. H=1.50 G=0.80 CD=73.20 CF=72.40

EXCAVACION TOTAL PLANO = 10878 m³

ALCANTARILLAS
EXISTENTES A CONSTRUIR

LONGITUDINALES
TRANSVERSALES

PROGRESIVA	COTA PUNTO FIJO	COTA TERRENO NATURAL	COTA SOLERA	PROFUNDIDAD EXCAVACION (m)	ANCHO DE BOCA (T)	PENDIENTE (i), CAUDAL MINIMO(Q), A. SOLERA(b)	COTA RASANTE ACTUAL	COTA RASANTE PROYECTADA, ALTURA (h)	ANCHO CALZADA (AC), TALUD TERRAPLEN (z)	AREA EXCAVACION EXCEDENTE	AREA EXCAVACION COMPLEMENTARIA (x,y)	AREA TERRAPLEN (m²)	AREA EXCAVACION CANAL (m²)	AREA CUNETAS EXISTENTES (m²)
50+000	74.40	74.40	74.40	0.00	1.50	0.00	74.40	74.40	6.00	0.00	0.00	0.00	0.00	0.00
50+100	74.30	74.30	74.30	0.00	1.50	0.00	74.30	74.30	6.00	0.00	0.00	0.00	0.00	0.00
50+200	74.20	74.20	74.20	0.00	1.50	0.00	74.20	74.20	6.00	0.00	0.00	0.00	0.00	0.00
50+300	74.10	74.10	74.10	0.00	1.50	0.00	74.10	74.10	6.00	0.00	0.00	0.00	0.00	0.00
50+400	74.00	74.00	74.00	0.00	1.50	0.00	74.00	74.00	6.00	0.00	0.00	0.00	0.00	0.00
50+500	73.90	73.90	73.90	0.00	1.50	0.00	73.90	73.90	6.00	0.00	0.00	0.00	0.00	0.00
50+600	73.80	73.80	73.80	0.00	1.50	0.00	73.80	73.80	6.00	0.00	0.00	0.00	0.00	0.00
50+700	73.70	73.70	73.70	0.00	1.50	0.00	73.70	73.70	6.00	0.00	0.00	0.00	0.00	0.00
50+800	73.60	73.60	73.60	0.00	1.50	0.00	73.60	73.60	6.00	0.00	0.00	0.00	0.00	0.00
50+900	73.50	73.50	73.50	0.00	1.50	0.00	73.50	73.50	6.00	0.00	0.00	0.00	0.00	0.00
51+000	73.40	73.40	73.40	0.00	1.50	0.00	73.40	73.40	6.00	0.00	0.00	0.00	0.00	0.00
51+100	73.30	73.30	73.30	0.00	1.50	0.00	73.30	73.30	6.00	0.00	0.00	0.00	0.00	0.00
51+200	73.20	73.20	73.20	0.00	1.50	0.00	73.20	73.20	6.00	0.00	0.00	0.00	0.00	0.00
51+300	73.10	73.10	73.10	0.00	1.50	0.00	73.10	73.10	6.00	0.00	0.00	0.00	0.00	0.00
51+400	73.00	73.00	73.00	0.00	1.50	0.00	73.00	73.00	6.00	0.00	0.00	0.00	0.00	0.00
51+500	72.90	72.90	72.90	0.00	1.50	0.00	72.90	72.90	6.00	0.00	0.00	0.00	0.00	0.00
51+600	72.80	72.80	72.80	0.00	1.50	0.00	72.80	72.80	6.00	0.00	0.00	0.00	0.00	0.00
51+700	72.70	72.70	72.70	0.00	1.50	0.00	72.70	72.70	6.00	0.00	0.00	0.00	0.00	0.00
51+800	72.60	72.60	72.60	0.00	1.50	0.00	72.60	72.60	6.00	0.00	0.00	0.00	0.00	0.00
51+900	72.50	72.50	72.50	0.00	1.50	0.00	72.50	72.50	6.00	0.00	0.00	0.00	0.00	0.00
52+000	72.40	72.40	72.40	0.00	1.50	0.00	72.40	72.40	6.00	0.00	0.00	0.00	0.00	0.00
52+100	72.30	72.30	72.30	0.00	1.50	0.00	72.30	72.30	6.00	0.00	0.00	0.00	0.00	0.00
52+200	72.20	72.20	72.20	0.00	1.50	0.00	72.20	72.20	6.00	0.00	0.00	0.00	0.00	0.00
52+300	72.10	72.10	72.10	0.00	1.50	0.00	72.10	72.10	6.00	0.00	0.00	0.00	0.00	0.00
52+400	72.00	72.00	72.00	0.00	1.50	0.00	72.00	72.00	6.00	0.00	0.00	0.00	0.00	0.00
52+500	71.90	71.90	71.90	0.00	1.50	0.00	71.90	71.90	6.00	0.00	0.00	0.00	0.00	0.00
52+600	71.80	71.80	71.80	0.00	1.50	0.00	71.80	71.80	6.00	0.00	0.00	0.00	0.00	0.00
52+700	71.70	71.70	71.70	0.00	1.50	0.00	71.70	71.70	6.00	0.00	0.00	0.00	0.00	0.00
52+800	71.60	71.60	71.60	0.00	1.50	0.00	71.60	71.60	6.00	0.00	0.00	0.00	0.00	0.00
52+900	71.50	71.50	71.50	0.00	1.50	0.00	71.50	71.50	6.00	0.00	0.00	0.00	0.00	0.00
53+000	71.40	71.40	71.40	0.00	1.50	0.00	71.40	71.40	6.00	0.00	0.00	0.00	0.00	0.00
53+100	71.30	71.30	71.30	0.00	1.50	0.00	71.30	71.30	6.00	0.00	0.00	0.00	0.00	0.00
53+200	71.20	71.20	71.20	0.00	1.50	0.00	71.20	71.20	6.00	0.00	0.00	0.00	0.00	0.00
53+300	71.10	71.10	71.10	0.00	1.50	0.00	71.10	71.10	6.00	0.00	0.00	0.00	0.00	0.00
53+400	71.00	71.00	71.00	0.00	1.50	0.00	71.00	71.00	6.00	0.00	0.00	0.00	0.00	0.00
53+500	70.90	70.90	70.90	0.00	1.50	0.00	70.90	70.90	6.00	0.00	0.00	0.00	0.00	0.00
53+600	70.80	70.80	70.80	0.00	1.50	0.00	70.80	70.80	6.00	0.00	0.00	0.00	0.00	0.00
53+700	70.70	70.70	70.70	0.00	1.50	0.00	70.70	70.70	6.00	0.00	0.00	0.00	0.00	0.00
53+800	70.60	70.60	70.60	0.00	1.50	0.00	70.60	70.60	6.00	0.00	0.00	0.00	0.00	0.00
53+900	70.50	70.50	70.50	0.00	1.50	0.00	70.50	70.50	6.00	0.00	0.00	0.00	0.00	0.00
54+000	70.40	70.40	70.40	0.00	1.50	0.00	70.40	70.40	6.00	0.00	0.00	0.00	0.00	0.00

OBSERVACIONES

1. ENSANCHAR (x) Y PROFUNDIZAR (y) EL CANAL CONSIDERANDO SEPARACION MINIMA DEL ALAMBRADO 0.50 m.

2. SE REQUIERE MATERIAL DE ZONA DE PRESTAMO O TRANSPORTE

ESCALA GRAFICA

HORIZONTAL: 1:100, 1:200, 1:300, 1:400, 1:500, 1:600, 1:700, 1:800, 1:900, 1:1000

VERTICAL: 1:10, 1:20, 1:30, 1:40, 1:50, 1:60, 1:70, 1:80, 1:90, 1:100

CONVENIO BAJOS SUBMERIDIONALES

UNIDAD TECNICA SANTA FE

CONSEJO FEDERAL DE INVERSIONES

PROVINCIA DE SANTA FE

COMITE HIDROVIAL TOSTADO

OBRA N°3 TRAMO III

PROGRESIVA 50+600 A 67+000

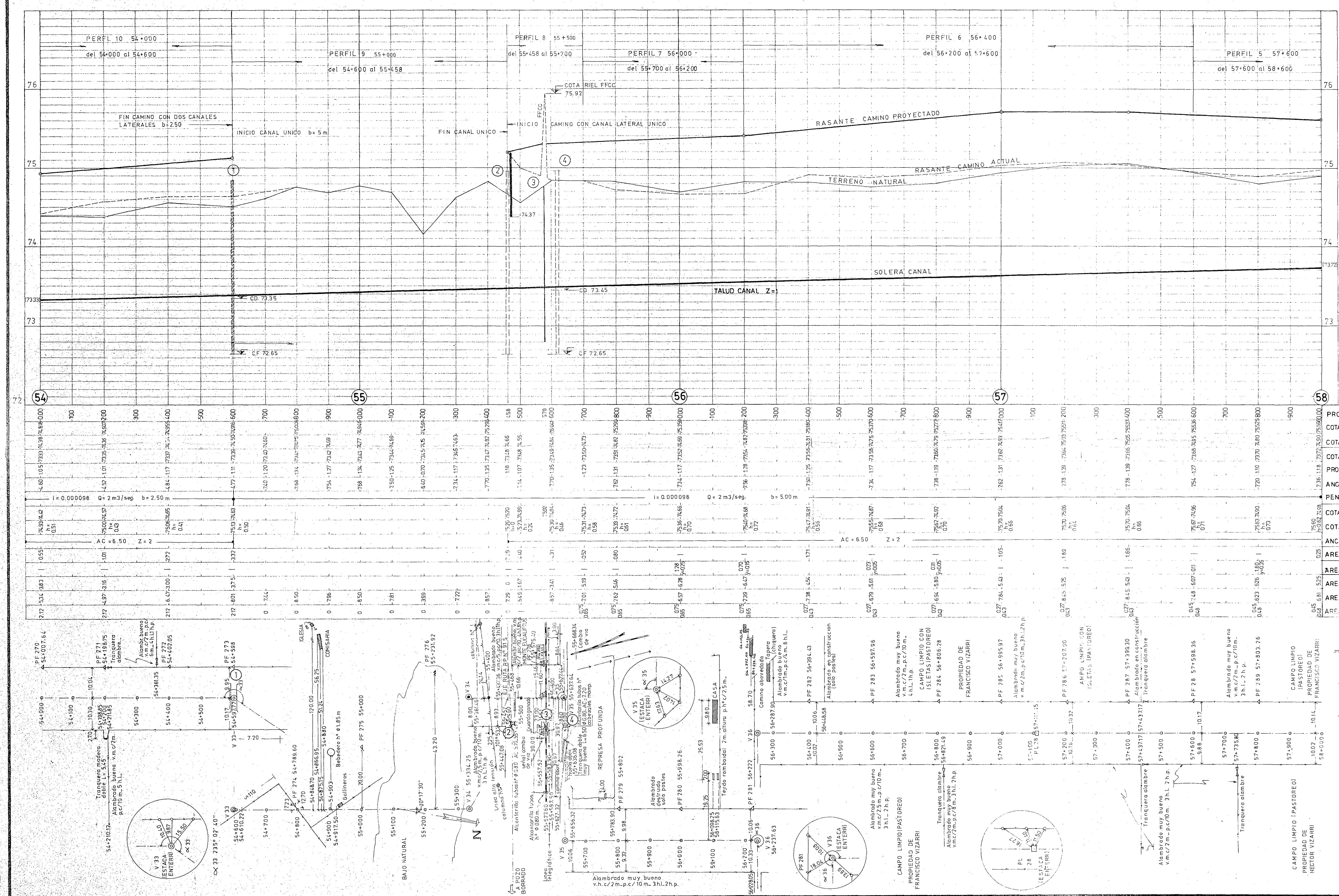
PROGRESIVA 50+600 A 54+000

ESCALA H 1:50

V 1:20

FECHA FEBRERO 1985

N° PLANO 03



SIGNIFICADO DE LOS NUMEROS:

- ALCANTARILLA TRANSVERSAL TIPO "E" PROG. 54+600
AC=8.00m L=3.00m 2L=1.50 H=1.50 G=0.70 CD=73.35 CF=72.65
- ALCANTARILLA LONGITUDINAL TIPO "E" PROG. 55+462.60
AC=8.00m L=4.00m 2L=2.00m H=1.50 G=0.80 CD=73.45 CF=72.65
- ALCANTARILLA SEGUN CRITERIO FERROCARRIL PR 55+577.60 CD=73.45
- ALCANTARILLA LONGITUDINAL TIPO "E" PROG. 55+624.0
AC=8.00m L=4.00m 2L=2.00m H=1.50 G=0.80 CD=73.45 CF=72.65

EXCAVACION TOTAL PLANO = 287575 m³

DATOS DEL ESTUDIO		DATOS DEL PROYECTO	
PROGRESIVA	COTA PUNTO FIJO	CANAL	CAMINO
	COTA TERRENO NATURAL		
	COTA SOLERA		
	PROFUNDIDAD EXCAVACION (m)		
	ANCHO DE BOCA (T)		
	PENDIENTE (i), CAUDAL MINIMO (Q), A SOLERA (b)		
	COTA RASANTE ACTUAL		
	COTA RASANTE PROYECTO		
	ANCHO CALZADA (AC), TALUD TERRAPLEN (z)		
	AREA EXCAVACION EXCEDENTES (m ²)		
	AREA EXCAVACION COMPLEMENTARIA (x,y) (m ²)		
	AREA TERRAPLEN (m ²)		
	AREA EXCAVACION CANAL (m ²)		
	AREA CUNETAS EXISTENTES (m ²)		

PERFILES TIPO

AC

PROGRESIVAS

54+000 al 54+600

54+600 al 55+458

55+458 al 58+000

CONVENIO BAJOS SUBMERIDIONALES

UNIDAD TECNICA SANTA FE

CONSEJO FEDERAL DE INGENIEROS

PROVINCIA DE SANTA FE

COMITE HIDROVIAL TOSTADO

OBRA N°3 TRAMO III

PROGRESIVA 54+000 A 58+000

PROGRESIVA 54+000 A 58+000

EJE OBRA SEGUN PERFILES PLANO N° 08

ESCALA GRAFICA

HORIZONTAL

VERTICAL

1:100

1:100

ESTACIONES

54+000

54+100

54+200

54+300

54+400

54+500

54+600

54+700

54+800

54+900

55+000

55+100

55+200

55+300

55+400

55+500

55+600

55+700

55+800

55+900

56+000

56+100

56+200

56+300

56+400

56+500

56+600

56+700

56+800

56+900

57+000

57+100

57+200

57+300

57+400

57+500

57+600

57+700

57+800

57+900

58+000

PERFIL 5 57+600
del 57+600 al 58+600

PERFIL 4 A km 60+600
del 58+600 al 65+000

CANAL LADO NORTE

CAMBIO SECCION
PROG 60+900

CANAL LADO OESTE

RASANTE CAMINO PROYECTADO

TN = RASANTE CAMINO

TERRENO NATURAL

RASANTE CAMINO ACTUAL

SOLERA CANAL

TALUD CANAL Z = 1

SIGNIFICADO DE LOS NUMEROS:

- 1 ALCANTARILLA LONGITUDINAL TIPO CAJON
PR 58+617.20 AC=8.00m L=4m L=2m CD=73.75m CF=72.95
- 2 ALCANTARILLA TRANSVERSAL AL CAMINO EXISTENTE
PR 60+847.50 AC=8.00m L=4m L=2m CD=73.95m CF=73.10
- 3 ALAMBRADO A CONSTRUIR TOTAL 4.420.70m
- 4 ALCANTARILLA TRANSVERSAL TIPO 'E' PROG 61+300
AC=8.00m L=2.00m H=1.00m G=0.80 CF=74.50 CD=75.30

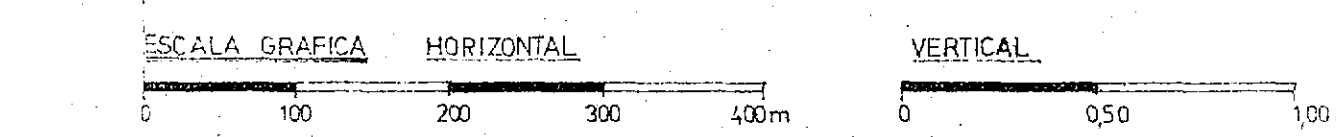
EXCAVACION TOTAL PLANO: 35310.5 m³

PROGRESIVA	COTA PUNTO FIJO	COTA TERRENO (NATURAL)	COTA SOLERA	PROFUNDIDAD EXCAVACION (m)	ANCHO DE BOCA (T)	PENDIENTE (i), CAUDAL MINIMO (Q) A SOLERA (b)	COTA RASANTE ACTUAL (EJE)	COTA RASANTE DE PROYECTO	ANCHO CALZADA (AC), TALUD TERRAPLEN (z)	AREA EXCAVACION EXCEDENTES	AREA EXCAVACION COMPLEMENTARIA (x-y)	AREA TERRAPLEN (m²) (COMPACTADO)	AREA EXCAVACION CANAL (m²)	AREA CUNETAS EXISTENTES (m²)
58	736.118	736.118	736.118	0.000	0.00	0.000000	736.118	736.118	0.00	0.00	0.00	0.00	0.00	0.00
59	736.118	736.118	736.118	0.000	0.00	0.000000	736.118	736.118	0.00	0.00	0.00	0.00	0.00	0.00
60	736.118	736.118	736.118	0.000	0.00	0.000000	736.118	736.118	0.00	0.00	0.00	0.00	0.00	0.00
61	736.118	736.118	736.118	0.000	0.00	0.000000	736.118	736.118	0.00	0.00	0.00	0.00	0.00	0.00
62	736.118	736.118	736.118	0.000	0.00	0.000000	736.118	736.118	0.00	0.00	0.00	0.00	0.00	0.00

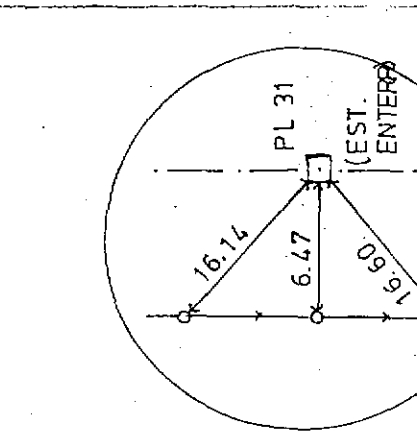
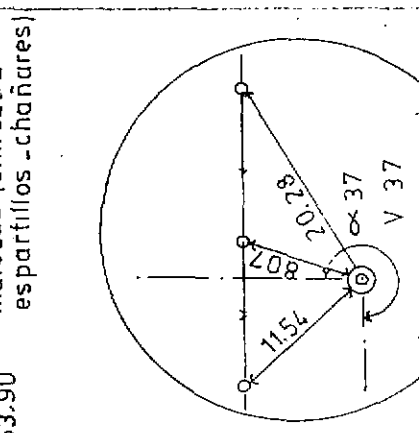
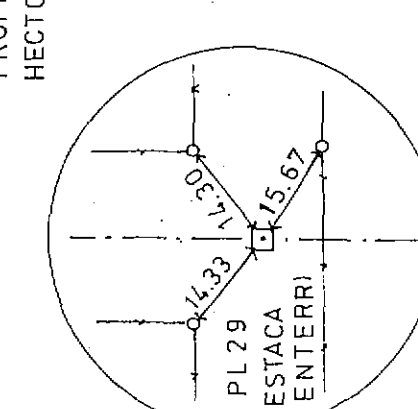
DATOS DEL ESTUDIO

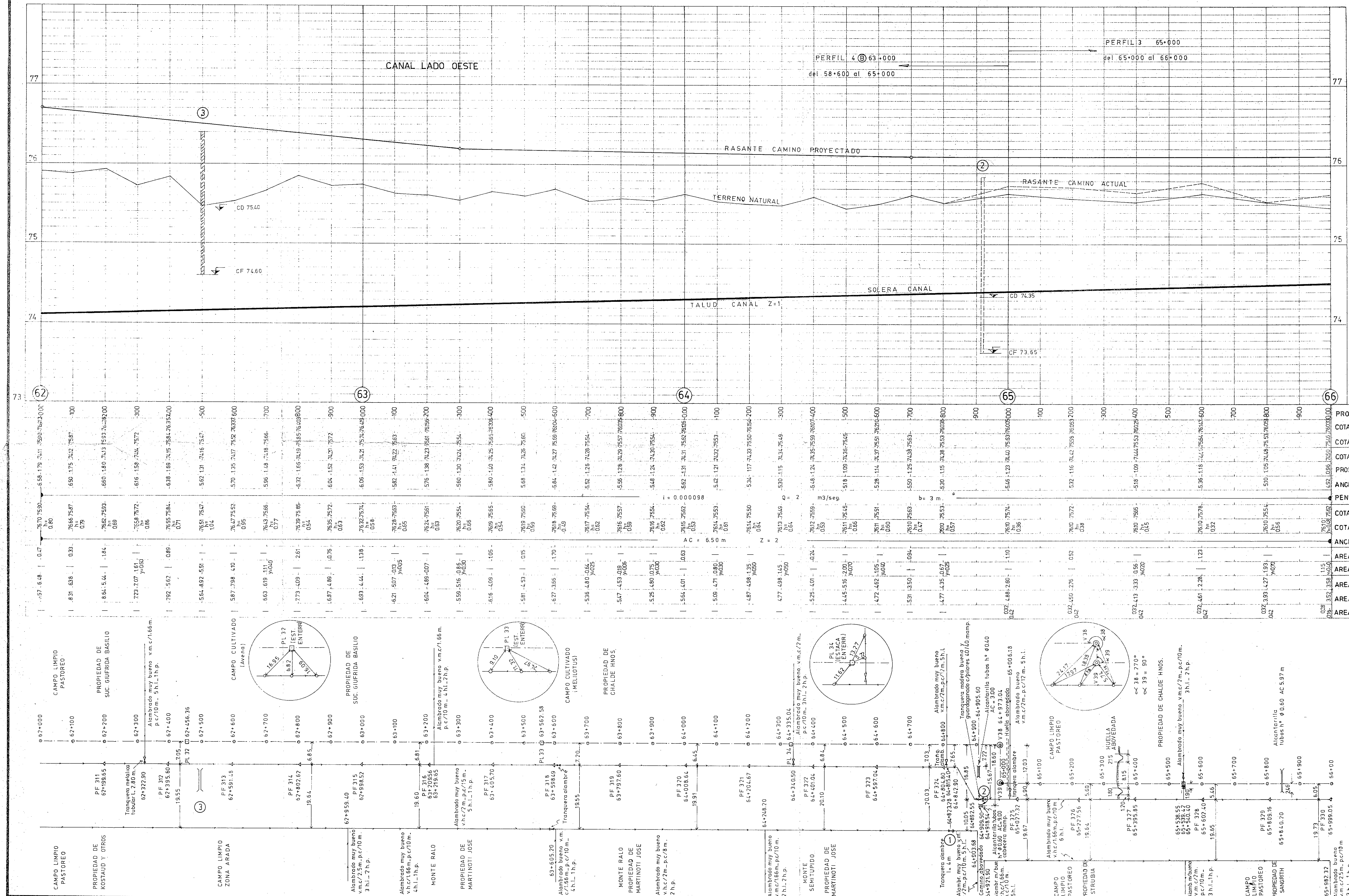
DATOS DEL PROYECTO

SE REQUIERE MATERIAL DE ZONAS DE PRESTAMOS O TRANSPORTE EXCEDENTE



CONVENIO BAJO SUBMERIDIONALES		CONSEJO FEDERAL DE INVERSIONES	
UNIDAD TECNICA SANTA FE		PROVINCIA DE SANTA FE	
TOPOGRAFIA	ING. A. TOSTA	COMITE HIDROVIAL TOSTADO	
PROYECTADO	ING. CARPENTIERI		
DIBUJADO	ING. BERZBERG	OBRA N° 3 TRAMO III	
RESPONSABLE TECNICO	ING. D. DEPETRIS		
OBSERVACIONES: EJE DE OBRA SEGUN PERFILES PLANO 08		PROGRESIVA 58+000 A 62+000	
		FECHA: FEBRERO 1985	
		N° PLANO: 05	





SIGNIFICADO DE LOS NUMEROS:

- ① ALAMBRADO A TRASLADAR 70 m. PROG. 64+843
- ② ALCANTARILLA LONGITUDINAL TIPO "E" PROG. 64+914
AC=800 m. 2L=150 m. H=150 G=070 CD=7435 CF=7365
- ③ ALCANTARILLA TRANSVERSAL TIPO "E" PROG. 62+500
AC=800 m. L=200 m. H=100 G=080 CD=7540 CF=7460

EXCAVACION TOTAL PLANO = 22309 m³

DATOS DEL ESTUDIO		DATOS DEL PROYECTO	
		CANAL	CAMINO
		MOVIMIENTO DE SUELO	
PROGRESIVA	COTA PUNTO FIJO		
	COTA TERRENO NATURAL		
	COTA SOLERA		
	PROFUNDIDAD EXCAVACION (m)		
	ANCHO DE BOCA (T)		
	PENDIENTE (i), CAUDAL MINIMO (Q) A SOLERA (b)		
	COTA RASANTE ACTUAL (EJE)		
	COTA RASANTE PROYECTO (h)		
	ANCHO CALZADA (AC), TALUD TERRAPLEN (z)		
	AREA EXCAVACION EXCEDENTES		
	AREA EXCAVACION COMPLEMENTARIA		
	AREA TERRAPLEN (m²) COMPACTADO		
	AREA EXCAVACION CANAL (m²)		
	AREA CUNETAS EXISTENTES (m²)		

ESCALA GRAFICA: HORIZONTAL 1:100, 2:100, 3:100, 4:100, 5:100, 6:100, 7:100, 8:100, 9:100, 10:100, 11:100, 12:100, 13:100, 14:100, 15:100, 16:100, 17:100, 18:100, 19:100, 20:100, 21:100, 22:100, 23:100, 24:100, 25:100, 26:100, 27:100, 28:100, 29:100, 30:100, 31:100, 32:100, 33:100, 34:100, 35:100, 36:100, 37:100, 38:100, 39:100, 40:100, 41:100, 42:100, 43:100, 44:100, 45:100, 46:100, 47:100, 48:100, 49:100, 50:100, 51:100, 52:100, 53:100, 54:100, 55:100, 56:100, 57:100, 58:100, 59:100, 60:100, 61:100, 62:100, 63:100, 64:100, 65:100, 66:100, 67:100, 68:100, 69:100, 70:100, 71:100, 72:100, 73:100, 74:100, 75:100, 76:100, 77:100, 78:100, 79:100, 80:100, 81:100, 82:100, 83:100, 84:100, 85:100, 86:100, 87:100, 88:100, 89:100, 90:100, 91:100, 92:100, 93:100, 94:100, 95:100, 96:100, 97:100, 98:100, 99:100, 100:100

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CONVENIO BAJO SUBMERIDIONALES

UNIDAD TECNICA SANTA FE

COMITE HIDROVIAL TOSTADO

OBRA N°3 TRAMO III

PROGRESIVA 50+600 A 67+000

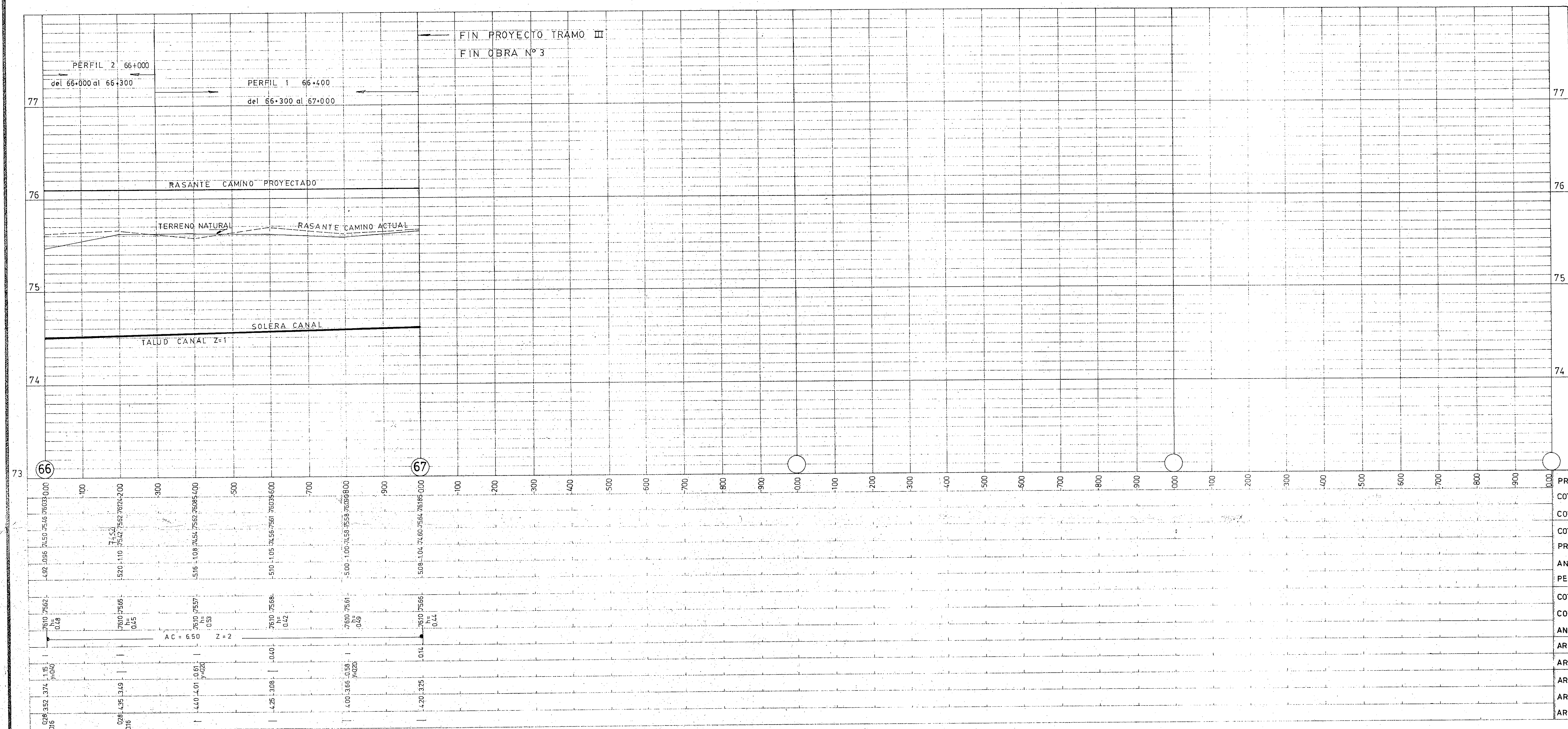
PROGRESIVA 62+000 A 66+000

RESPONSABLE TECNICO: ING. D. DEPETRIS

ESCALA: H: 1:50, V: 1:20

FECHA: FEBRERO 1985

N° PLANO: 06



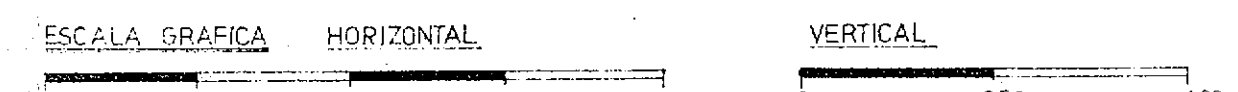
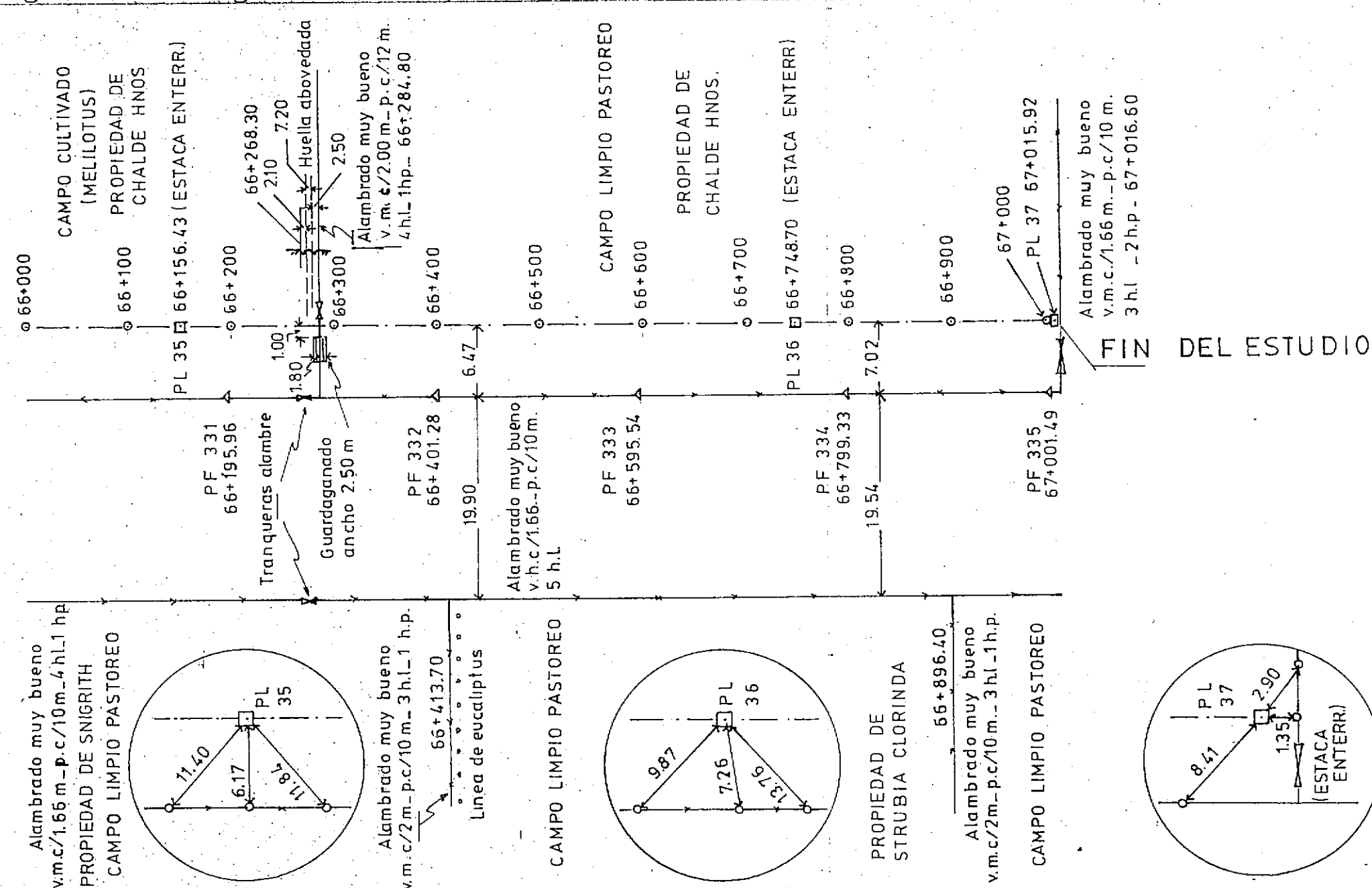
SIGNIFICADO DE LOS NUMEROS:

EXCAVACION TOTAL PLANO = 3352 m³

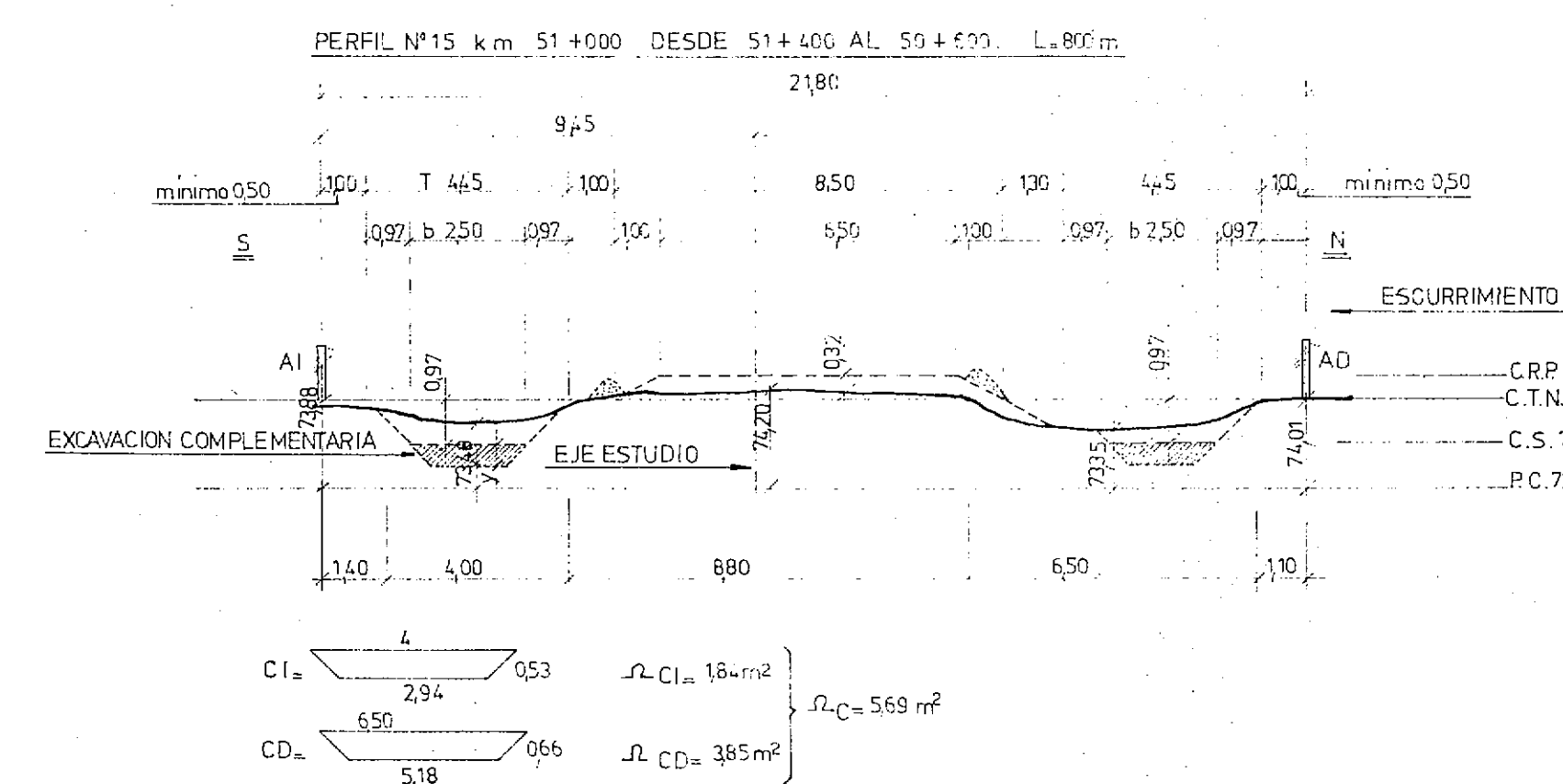
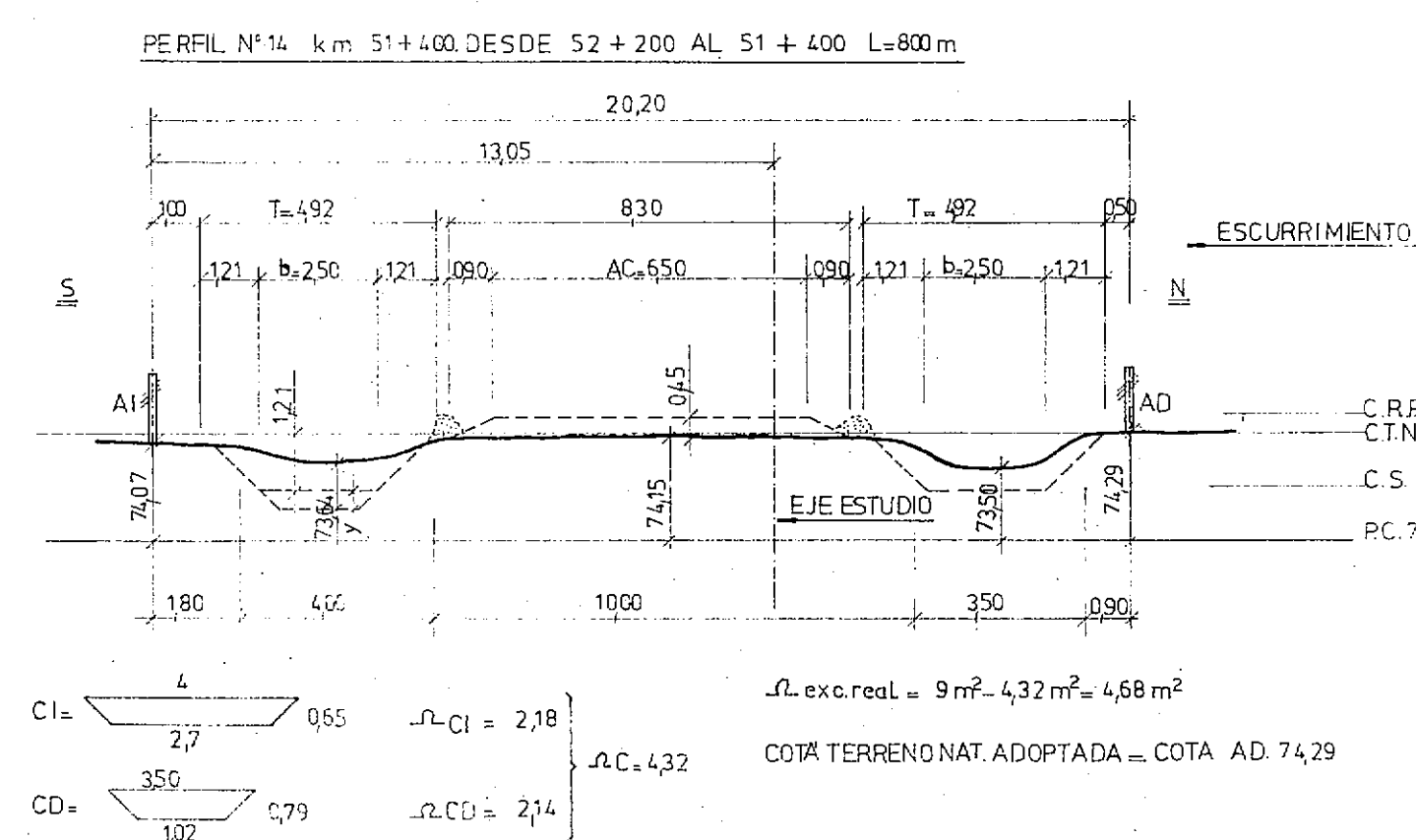
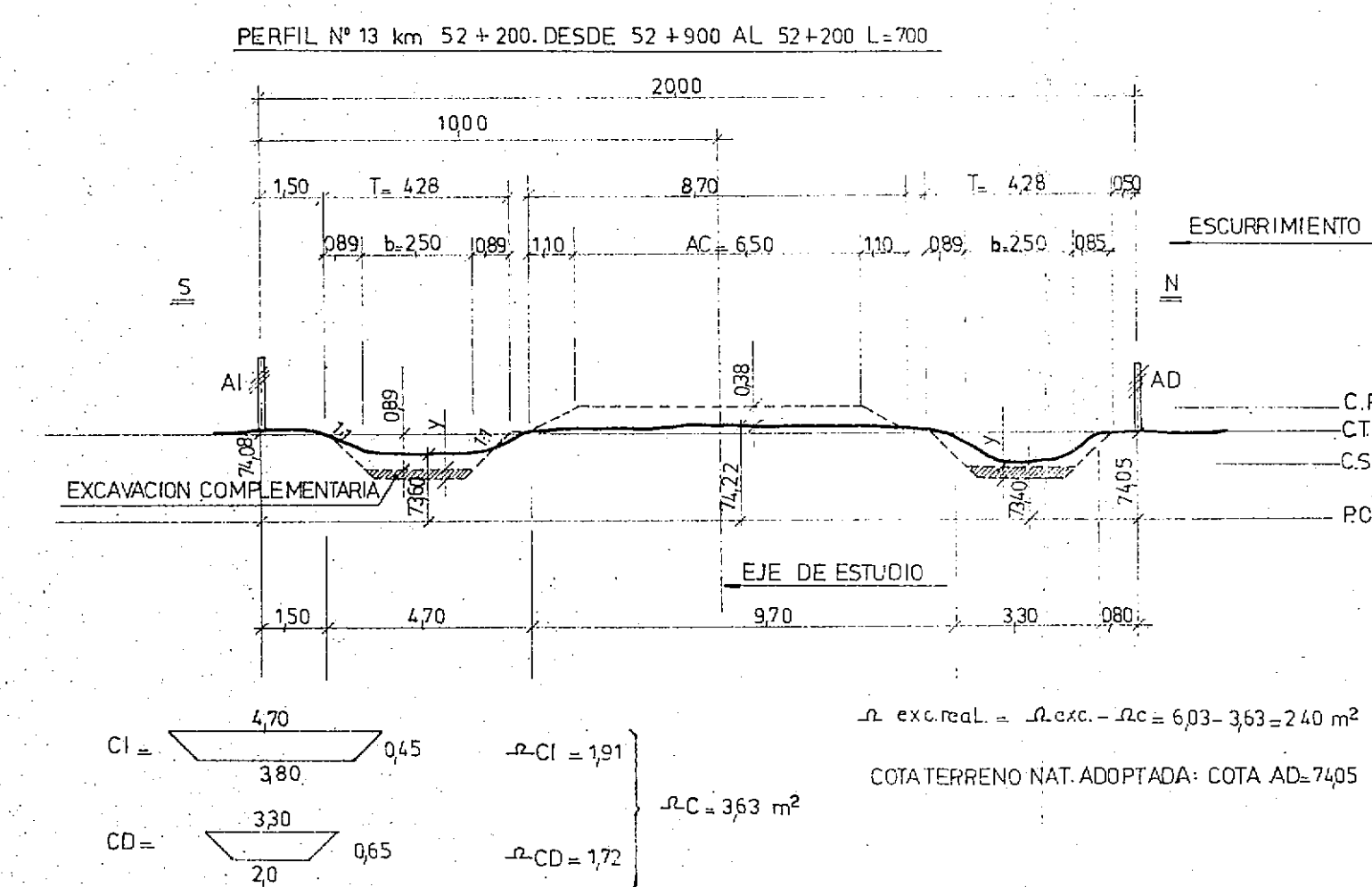
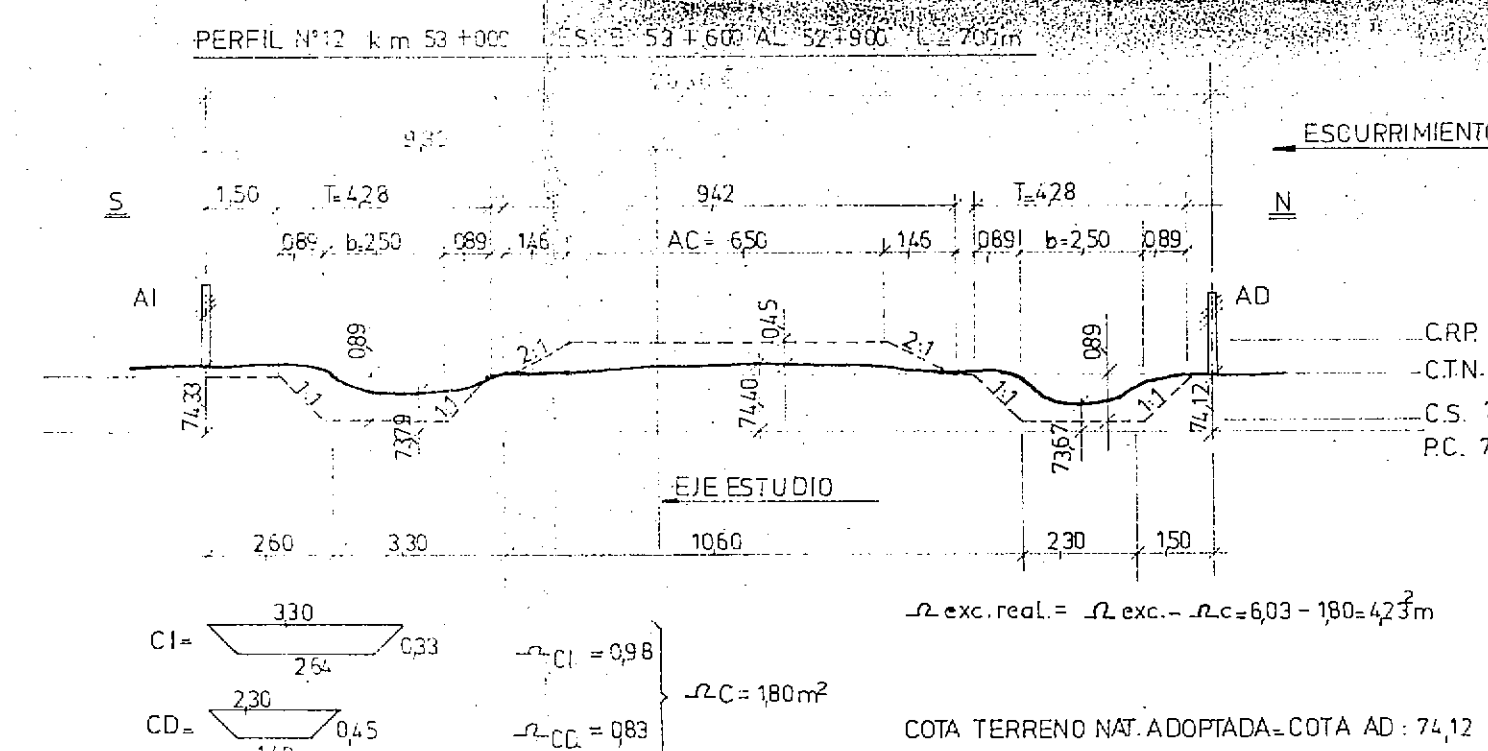
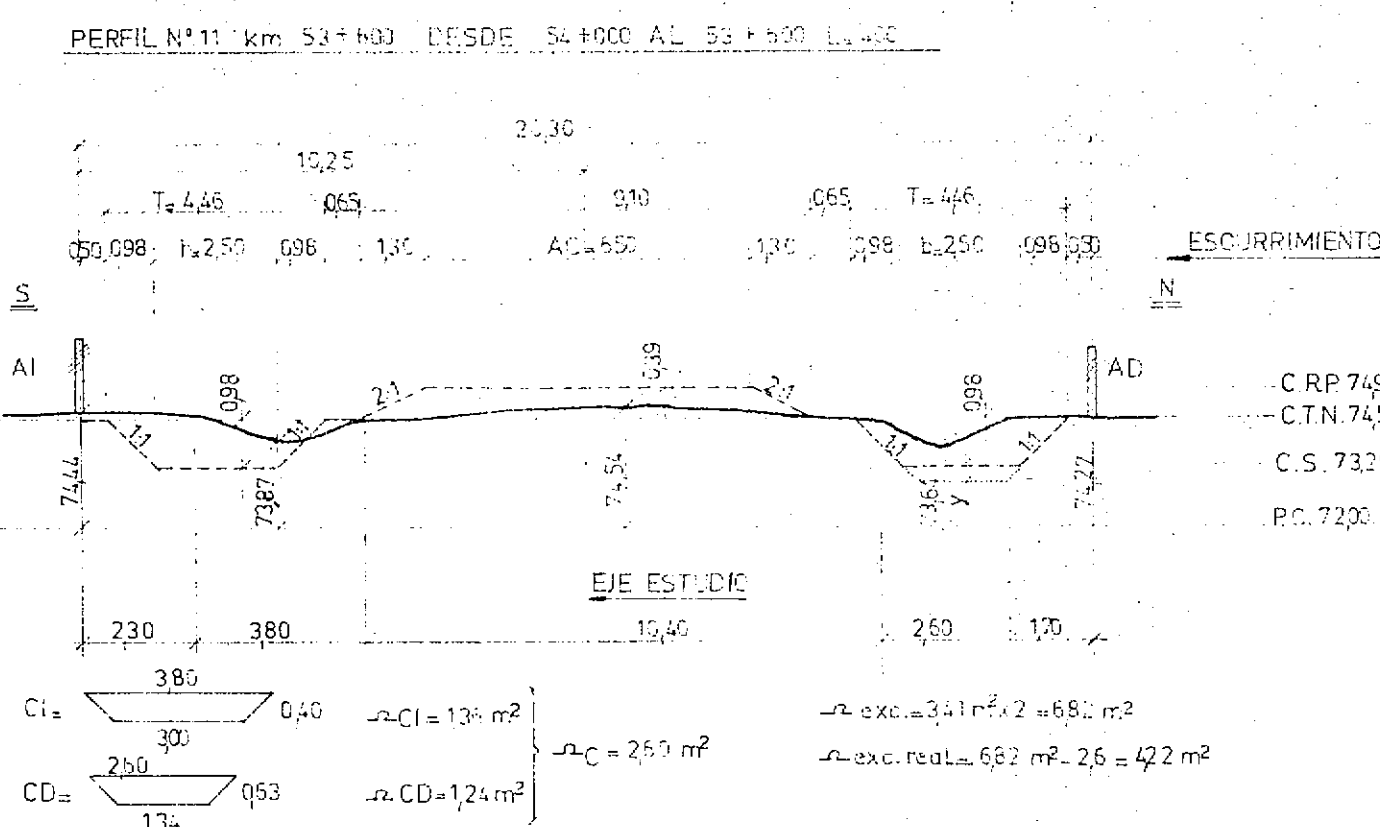
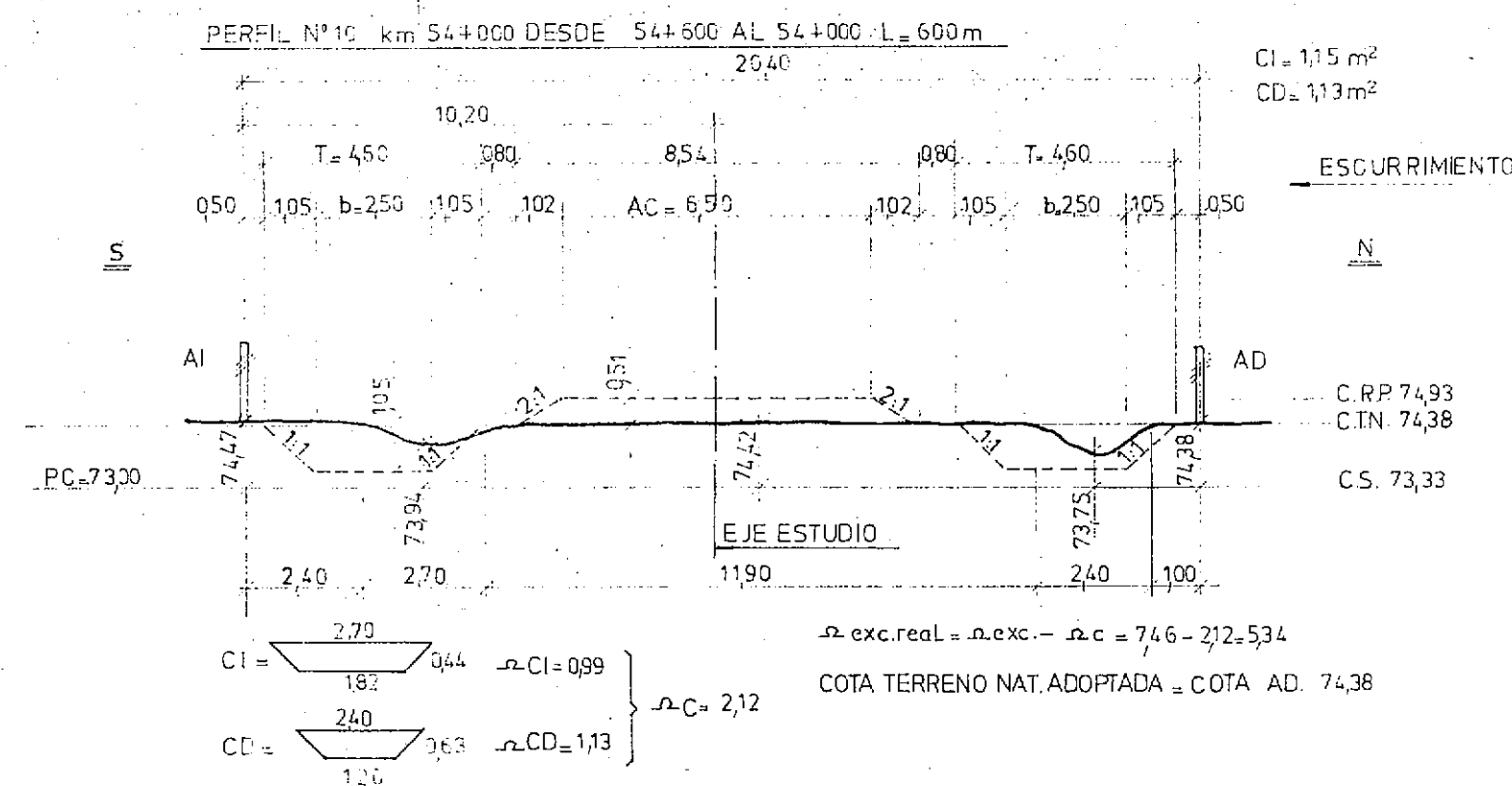
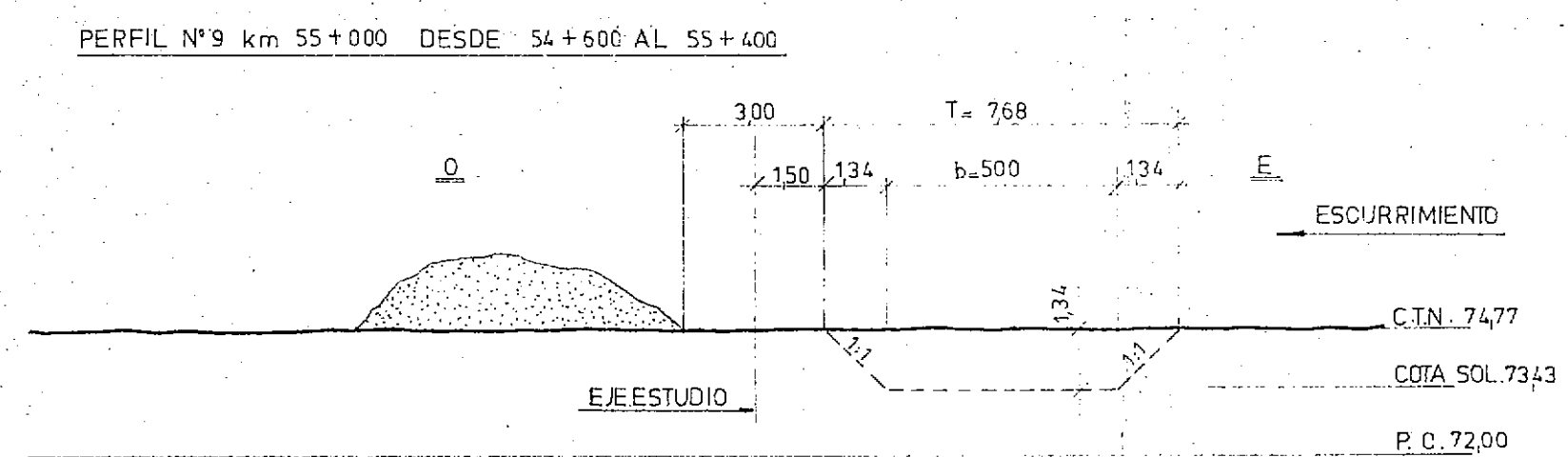
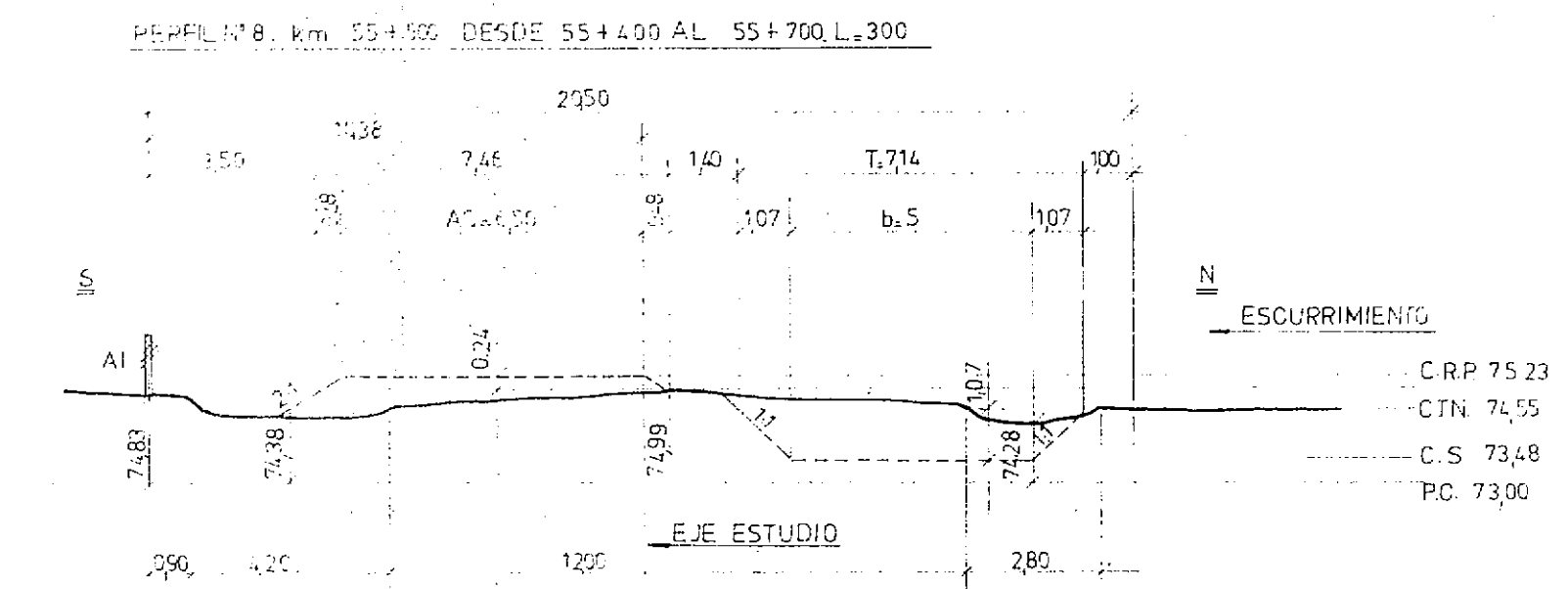
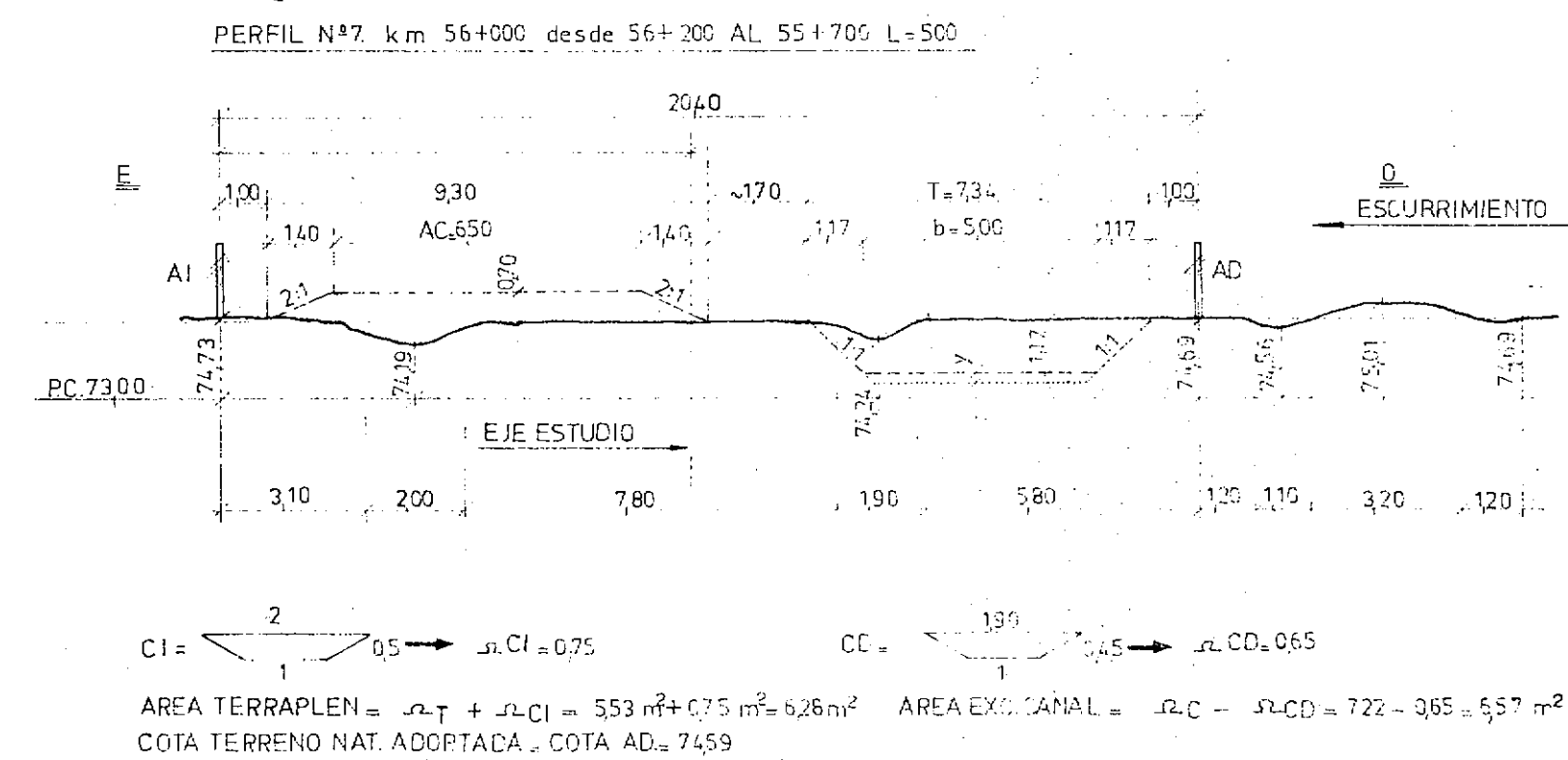
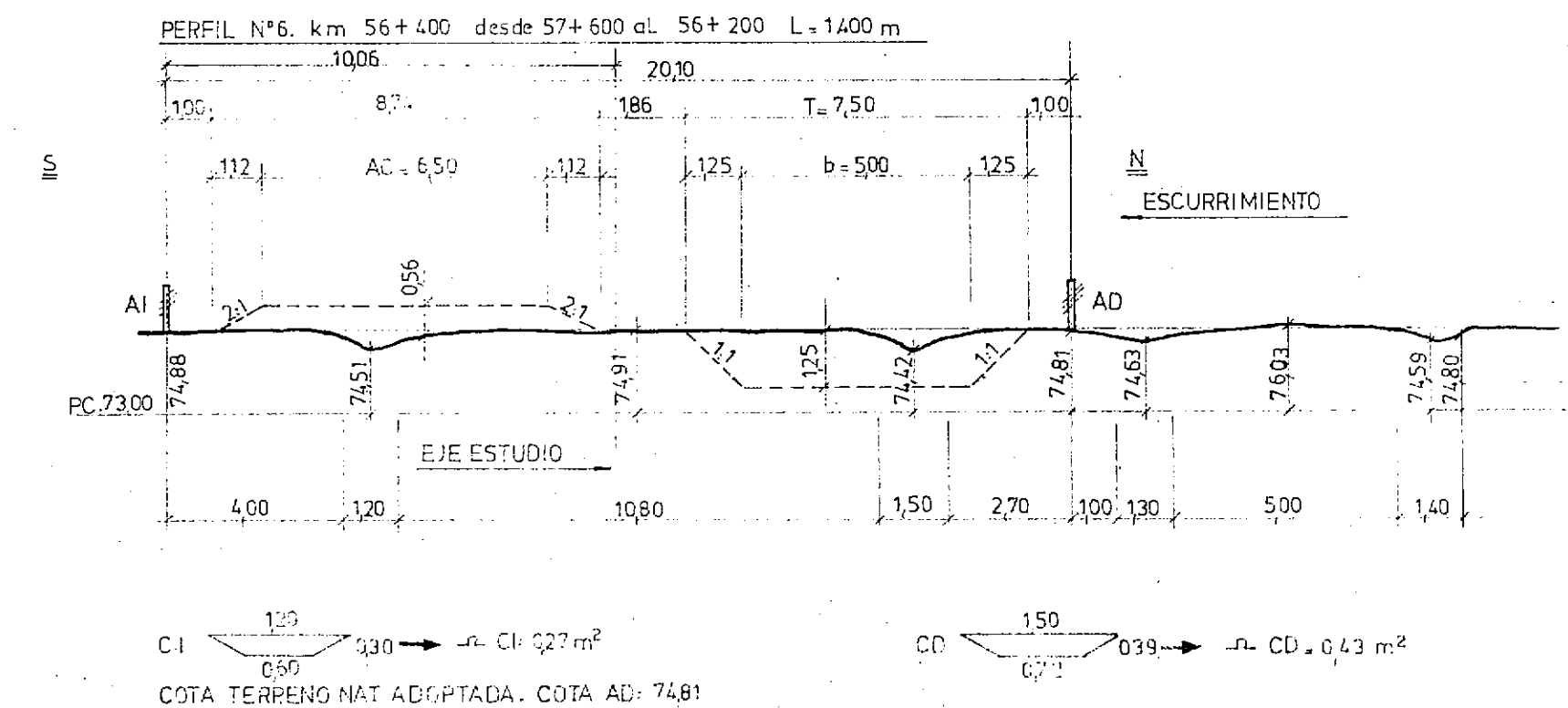
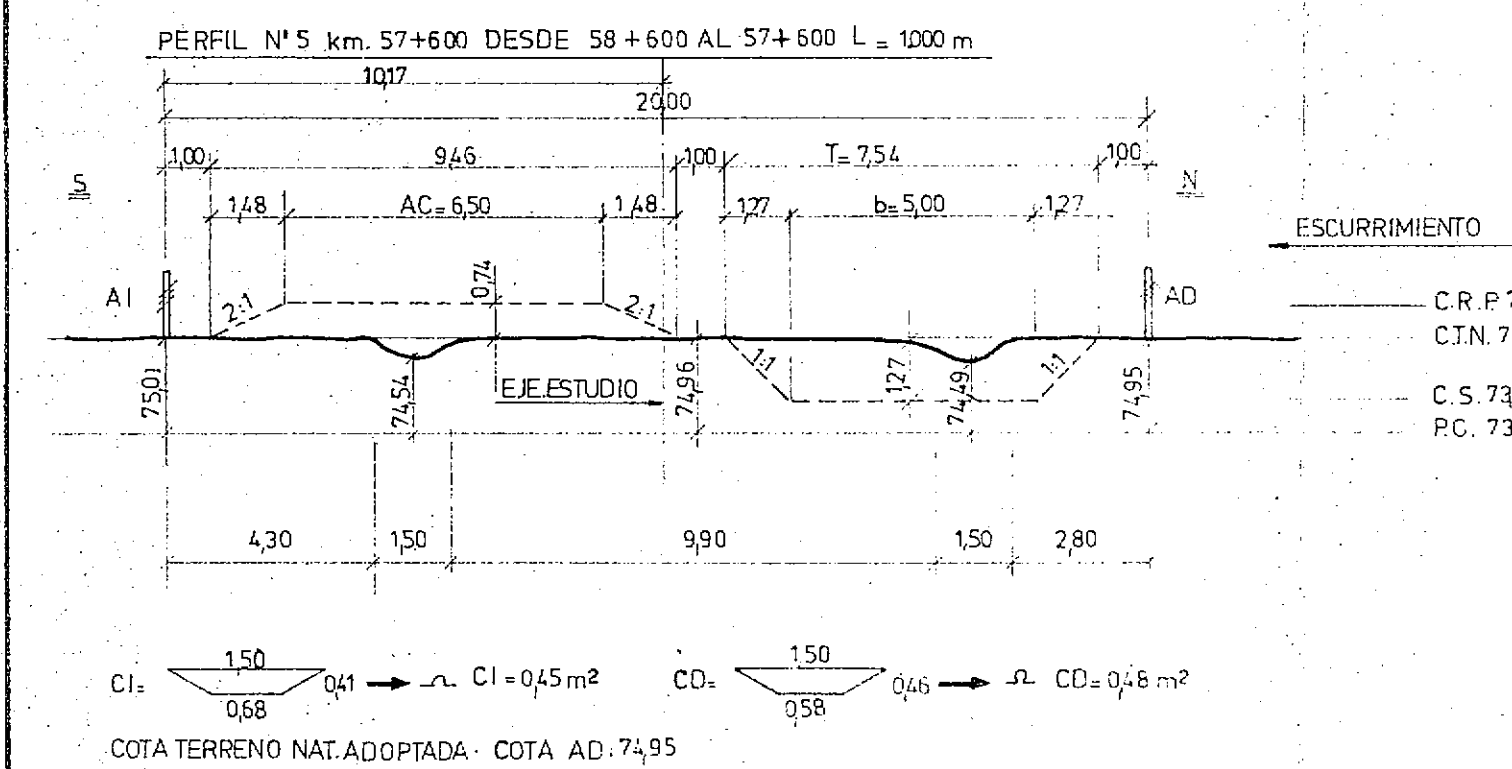
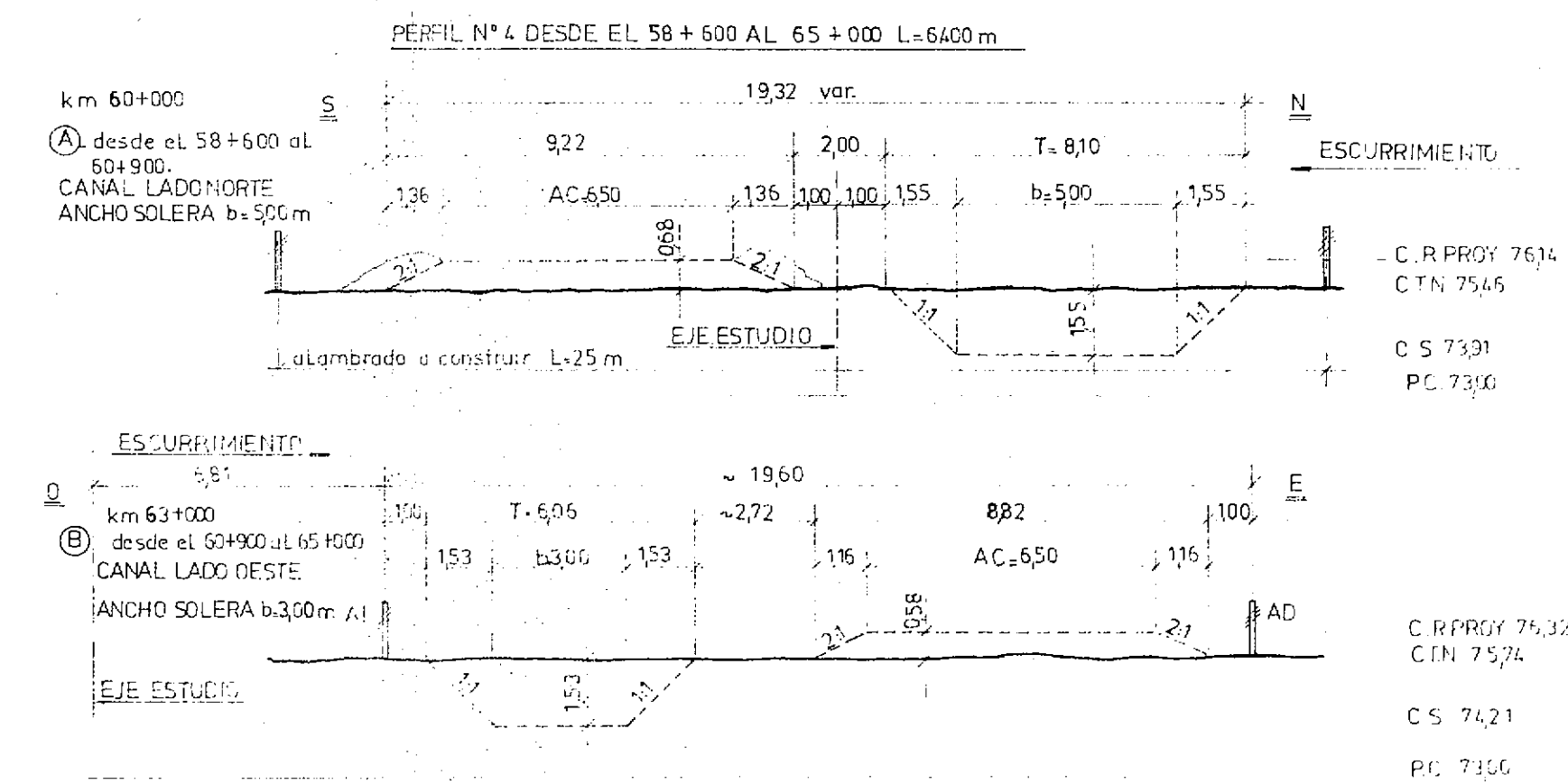
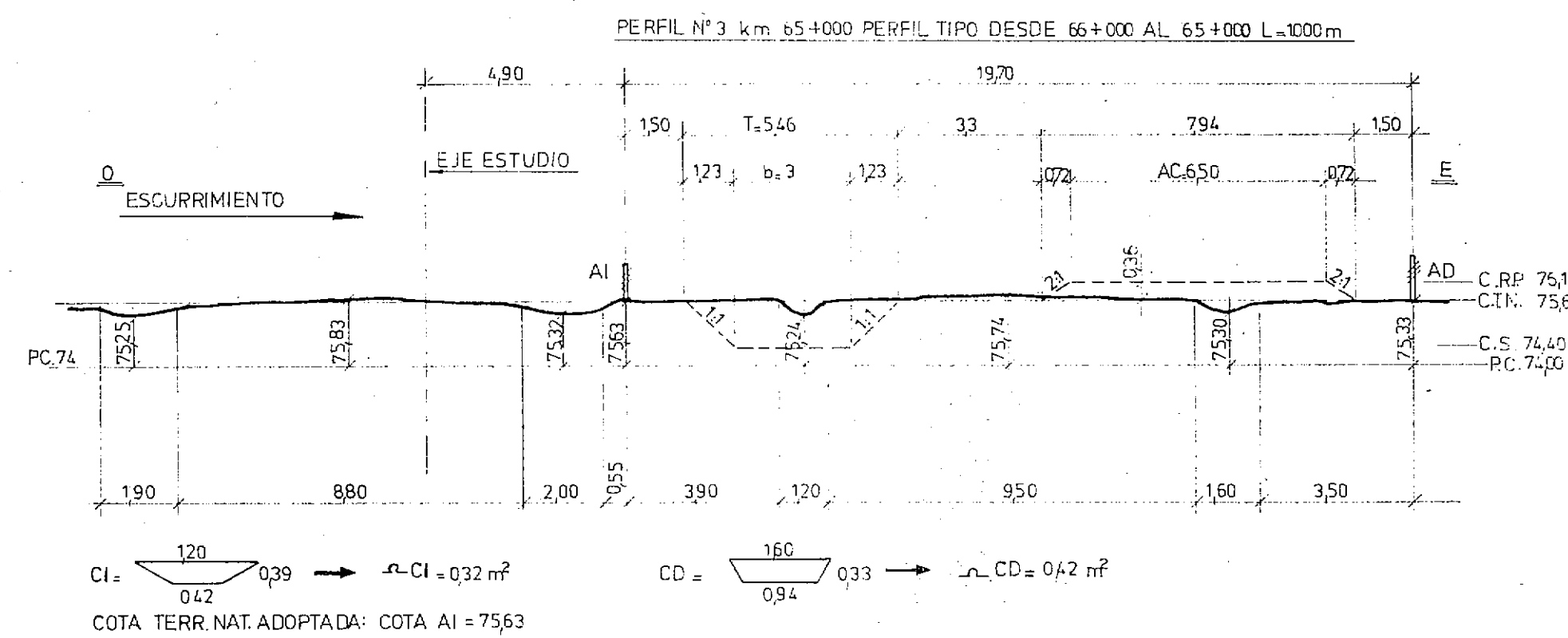
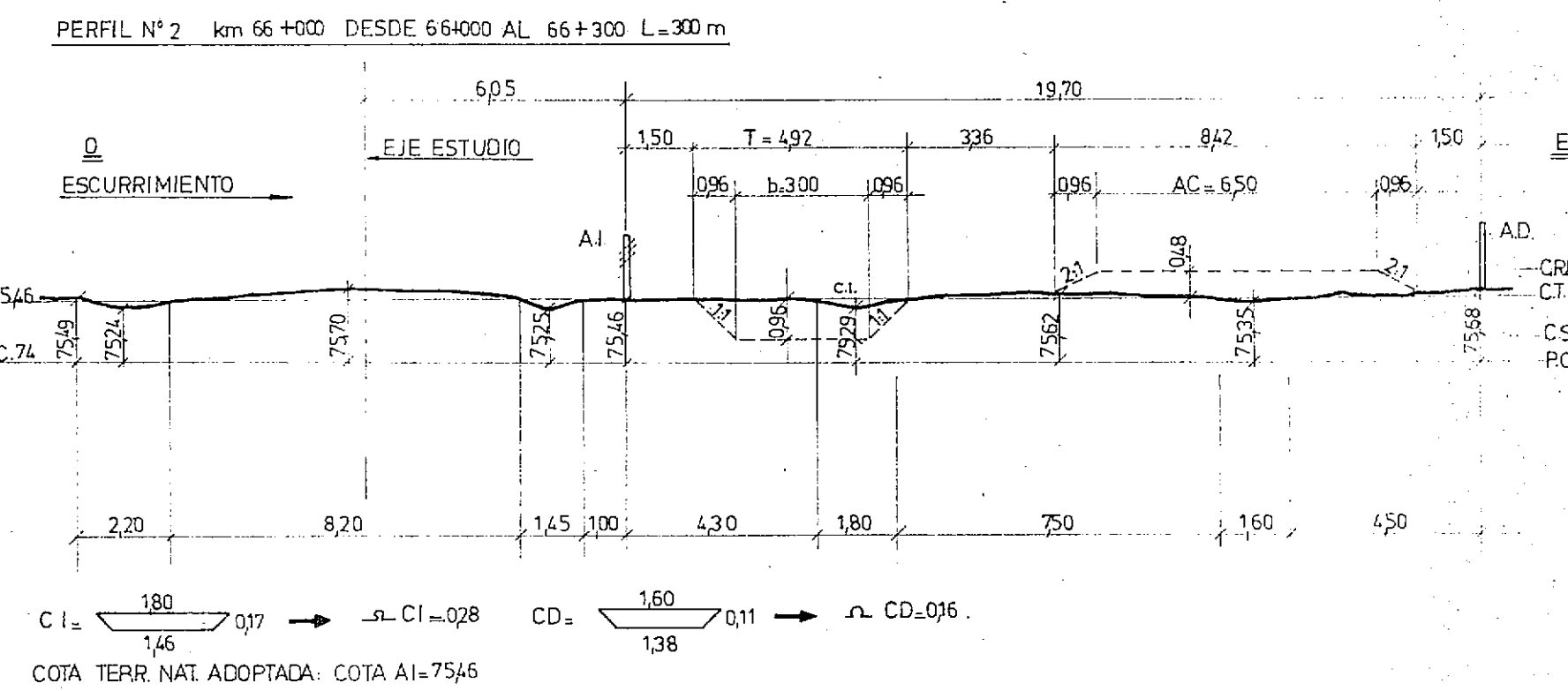
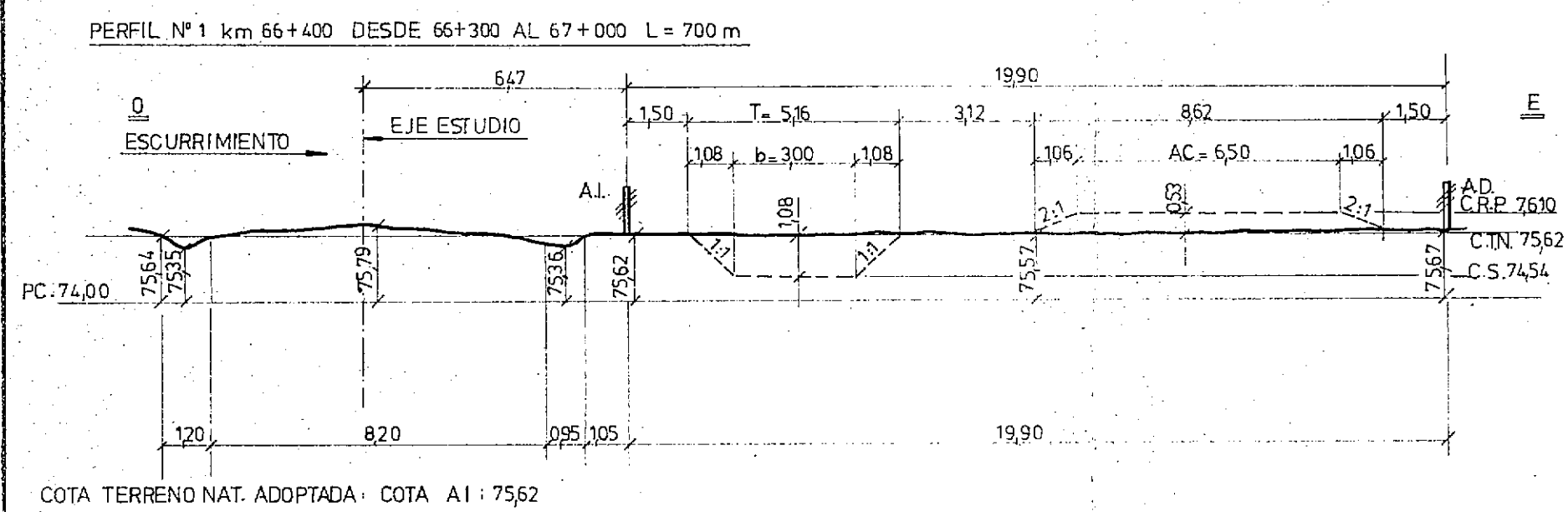
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PROGRESIVA		DATOS DEL ESTUDIO			
COTA PUNTO FIJO		CANAL	CAMINO		
COTA TERRENO NATURAL					
COTA SOLERA					
PROFUNDIDAD EXCAVACION (m)		MOVIMIENTO DE SUELO	DATOS DEL PROYECTO		
ANCHO DE BOCA (T)					
PENDIENTE (i), CAUDAL MINIMO(Q), A SOLERA(b)					
COTA RASANTE ACTUAL					
COTA RASANTE DE PROYECTO - (ALTURA h)					
ANCHO CALZADA (AC), TALUD TERRAPLEN (z)					
AREA EXCAVACION EXCEDENTES					
AREA EXCAVACION COMPLEMENTARIA (x,y)					
AREA TERRAPLEN (m ²) (COMPACTADO)					
AREA EXCAVACION CANAL (m ²)					
AREA CUNETAS EXISTENTES (m ²)					

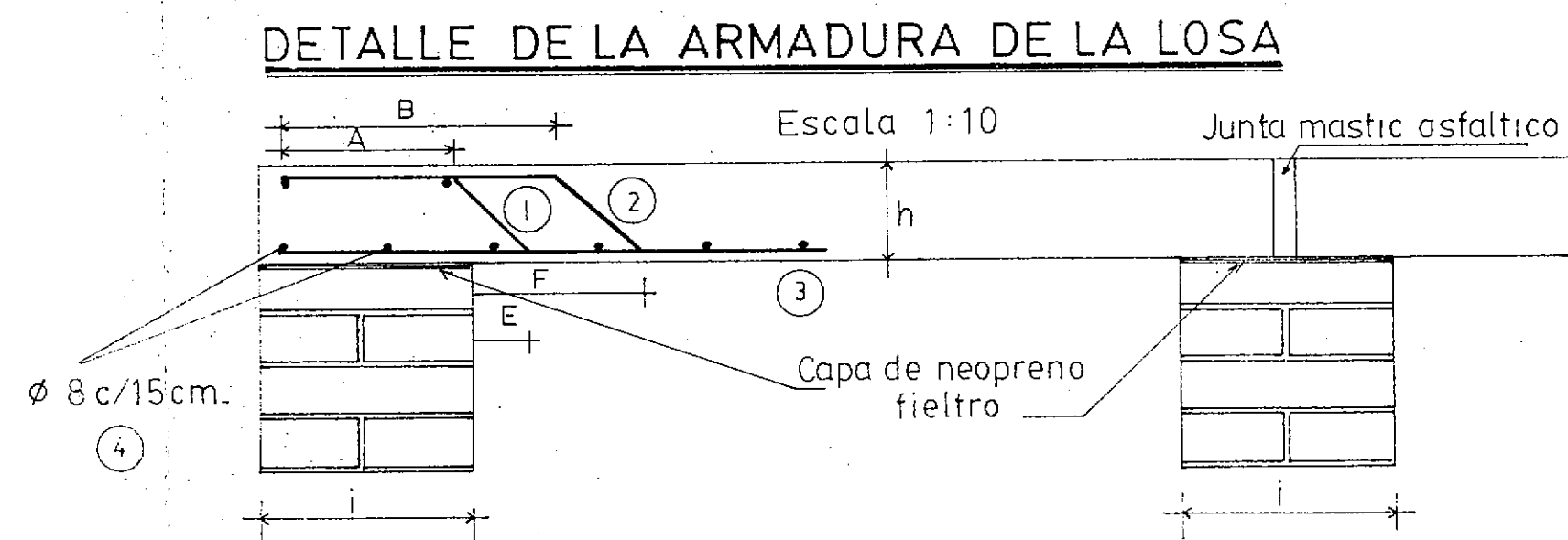
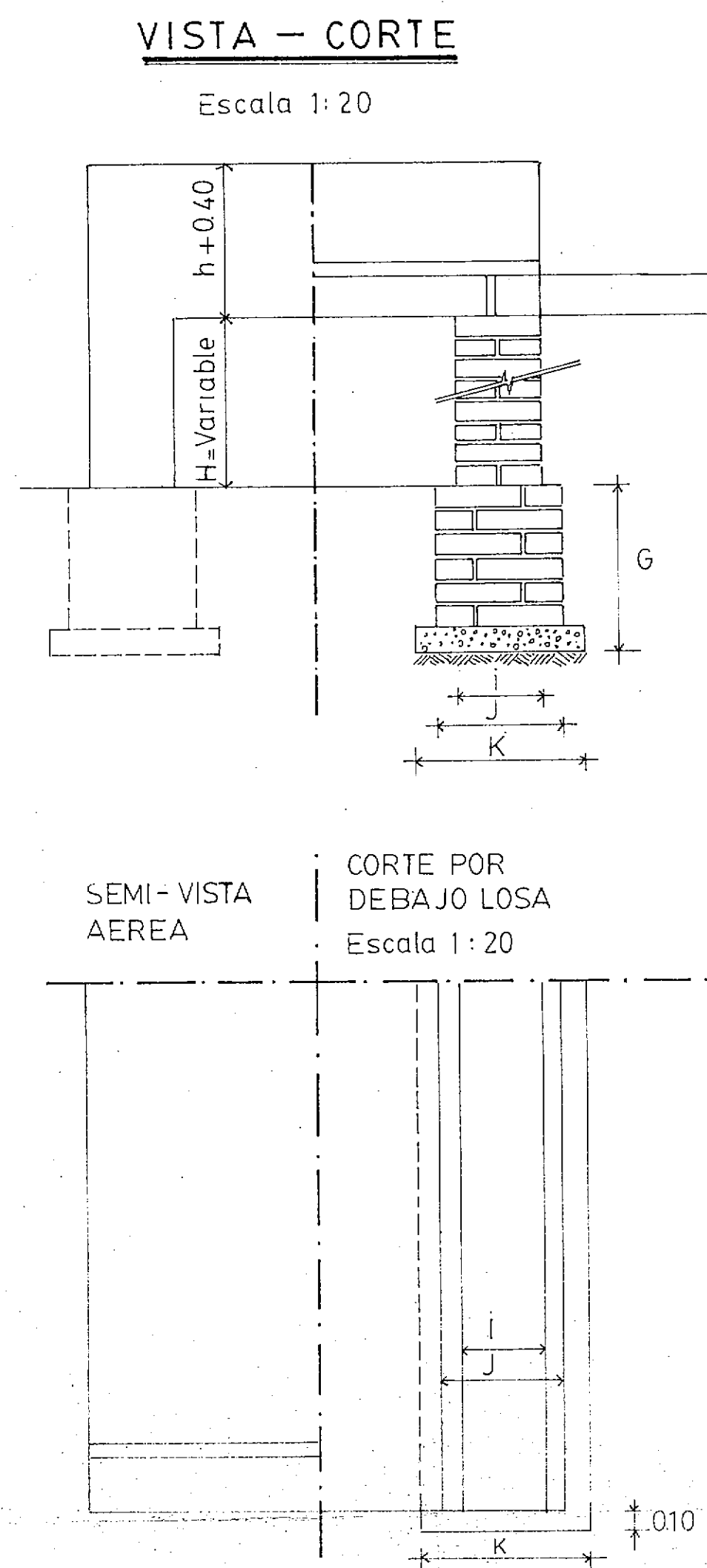
PC 73



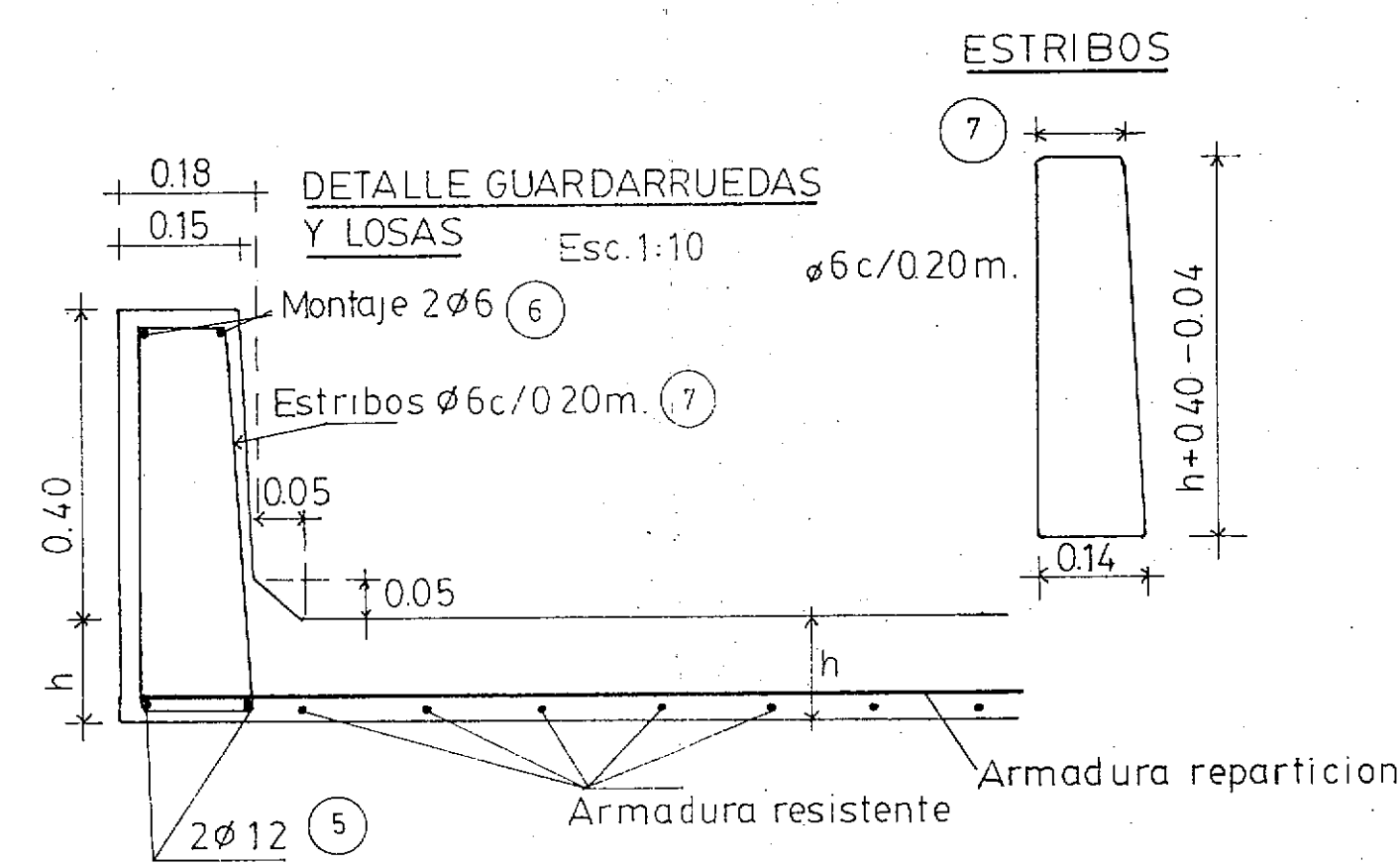
CONVENIO BAJOS SUBMERIDIONALES		COMITE HIDROVIAL TOSTADO	
UNIDAD TECNICA SANTA FE		CONSEJO FEDERAL DE INVERSIONES	
TOPOGRAFIA		PROYECTADO	
PROYECTADO		DIBUJADO	
RESPONSABLE TECNICO		OBSERVACIONES	
EJE DE OBRA SEGUN PERFILES PLANO N° 08		FECHA FEBRERO 1985	
		N° PLANO	



CONVENIO BAJOS SUBMERIDIONALES		COMITE HIDROVIAL TOSTADO	
UNIDAD TECNICA SANTA FE	ING. TOSTI- J. BERTOLINO	PLANOS PERFILES TIPOS	
TOPOGRAFIA	ING. CARPELLI		
PROYECTADO	ING. BERZERO		
DIBUJADO	ING. MASCHERONI		
RESPONSABLE TECNICO	ING. D. DEPETRIS	ESCALA:	
OBSERVACIONES:			
		FECHA: FEBRERO 1985	
		N° PLANO: 08	



TIPO	DETALLE	Ø	Separacion	
			L 1.50	L 2.00
1		12	0.465	0.435
2		12	0.465	0.435
3		12	0.465	0.435
4		8	0.15	0.15
5		12	—	—
6		6	—	—
7	Segun detalle estribos	6	0.20	0.20



NOTA: Las dimensiones se ajustarán en obra...

DIMENSIONES								COMPUTOS			
AC m.	L m.	H m.	g m.	h (losa) m.	i (ancho pilar) m.	j (ancho cimentación) m.	k (ancho fundación) m.	VOLUMEN mamposteria m³	Hº losa m³	Hº cascotes m³	VOLUMEN EXCAVACION cimientos m³
6.00	2.00	1.50	0.80	0.20	0.30	0.45	0.60	9.72	3.48	0.74	15.88
		2.00	0.90	0.20	0.30	0.45	0.60	12.06	3.48	0.74	17.64
		2.50	1.00	0.20	0.45	0.60	0.75	20.70	3.89	0.93	19.40
	3.00 2L = 1.50m.	1.50	0.70	0.18	0.30	0.45	0.60	13.77	4.76	1.12	21.18
		2.00	0.80	0.18	0.30	0.45	0.60	17.28	4.76	1.12	23.82
		2.50	0.90	0.18	0.45	0.60	0.75	29.97	5.31	1.40	26.46
	4.00 2L = 2.00m.	1.50	0.80	0.20	0.30	0.45	0.60	14.58	6.57	1.12	23.82
		2.00	0.90	0.20	0.30	0.45	0.60	18.09	6.57	1.12	24.46
		2.50	1.00	0.20	0.45	0.60	0.75	31.05	7.17	1.40	29.10
	4.50 3L = 1.50m.	1.50	0.70	0.18	0.30	0.45	0.60	18.36	6.96	1.48	28.24
		2.00	0.80	0.18	0.30	0.45	0.60	23.04	6.96	1.48	31.76
		2.50	0.90	0.18	0.45	0.60	0.75	39.96	7.68	1.86	35.28
8.00	2.00	1.50	0.80	0.20	0.30	0.45	0.60	19.44	9.65	1.48	31.76
		2.00	0.90	0.20	0.30	0.45	0.60	24.12	9.65	1.48	35.28
		2.50	1.00	0.20	0.45	0.60	0.75	41.40	10.45	1.86	38.80
	3.00 2L = 1.50m.	1.50	0.70	0.18	0.30	0.45	0.60	12.96	4.52	0.98	20.92
		2.00	0.80	0.18	0.30	0.45	0.60	16.08	4.52	0.98	23.24
		2.50	0.90	0.18	0.45	0.60	0.75	27.60	5.05	1.24	25.56
	4.00 2L = 2.00m.	1.50	0.70	0.18	0.30	0.45	0.60	18.36	6.17	1.47	27.90
		2.00	0.80	0.18	0.30	0.45	0.60	23.04	6.17	1.47	31.38
		2.50	0.90	0.18	0.45	0.60	0.75	39.96	6.87	1.86	34.86
	4.50 3L = 1.50m.	1.50	0.70	0.18	0.30	0.45	0.60	19.44	8.53	1.47	31.38
		2.00	0.80	0.18	0.30	0.45	0.60	24.12	8.53	1.47	34.86
		2.50	1.00	0.20	0.45	0.60	0.75	41.40	9.31	1.86	38.34
	6.00 3L = 2.00m.	1.50	0.70	0.18	0.30	0.45	0.60	24.48	9.01	1.96	37.20
		2.00	0.80	0.18	0.30	0.45	0.60	30.72	9.01	1.96	41.84
		2.50	0.90	0.18	0.45	0.60	0.75	53.28	9.95	2.48	46.48
	6.00 3L = 2.00m.	1.50	0.80	0.20	0.30	0.45	0.60	25.92	12.53	1.96	41.84
		2.00	0.90	0.20	0.30	0.45	0.60	32.16	12.53	1.96	46.48
		2.50	1.00	0.20	0.45	0.60	0.75	55.20	13.57	2.48	51.12

DIMENSIONES						
Lm.	A	B	C	D	E	F
1.50	0.29	0.18	0.50	0.18	0.12	0.34
2.00	0.34	0.21	0.60	0.21	0.17	0.44

MODULOS A C 6.00m.						
Lm.	Tipo	Ø mm.	Long.	Cant.	Sep.	Kg.
1.50	1	12	2.16	13	0.465	25
	2	12	2.16	13	0.465	25
	3	12	2.06	13	0.465	24
	4	8	6.32	14	0.150	35
	5	12	2.06	4	—	7
	6	6	2.06	4	—	2
	7	6	1.49	17	0.200	6
2.00	1	12	2.68	14	0.435	33
	2	12	2.68	14	0.435	33
	3	12	2.56	14	0.435	32
	4	8	6.32	17	0.150	43
	5	12	2.56	4	—	9
	6	6	2.56	4	—	2
	7	6	1.53	22	0.200	7

PLANILLA DE HIERROS

MODULOS A C 8.00m.						
Lm.	Tipo	Ø mm.	Long.	Cant.	Sep.	Kg.
1.50	1	12	2.16	17	0.465	33
	2	12	2.16	17	0.465	33
	3	12	2.06	17	0.465	31
	4	8	8.32	14	0.150	47
	5	12	2.06	4	—	7
	6	6	2.06	4	—	2
	7	6	1.49	17	0.200	6
2.00	1	12	2.68	18	0.435	43
	2	12	2.68	18	0.435	43
	3	12	2.56	18	0.435	41
	4	8	8.32	17	0.150	57
	5	12	2.56	4	—	9
	6	6	2.56	4	—	2
	7	6	1.53	22	0.200	7

PESO DE LOS HIERROS Ø 5 - 0.22 Kg./m.
Ø 8 - 0.40 Kg./m.
Ø 12 - 0.89 Kg./m.

A C = 6.00 mts.				
Lm.	Tipo	Kg.	Precio Unitario	Importe
2.00	1	33		
	2	33		
	3	32		
	4	43		
	5	9		
	6	2		
	7	7		
3.00 2L = 1.50m.	1	50		
	2	50		
	3	48		
	4	70		
	5	14		
	6	4		
	7	12		
4.00 2L = 2.00m.	1	66		
	2	66		
	3	64		
	4	86		
	5	18		
	6	4		
	7	14		
4.50 3L = 1.50m.	1	75		
	2	75		
	3	72		
	4	105		
	5	21		
	6	6		
	7	18		
6.00 3L = 2.00m.	1	99		
	2	99		
	3	96		
	4	129		
	5	27		
	6	6		
	7	21		

A C = 8.00 mts.				
Lm.	Tipo	Kg.	Precio Unitario	Importe
2.00	1	43		
	2	43		
	3	41		
	4	57		
	5	9		
	6	2		
	7	7		
3.00 2L = 1.50m.	1	66		
	2	66		
	3	62		
	4	90		
	5	14		
	6	4		
	7	12		
4.00 2L = 2.00m.	1	86		
	2	86		
	3	82		
	4	114		
	5	18		
	6	4		
	7	14		
4.50 3L = 1.50m.	1	99		
	2	99		
	3	93		
	4	141		
	5	21		
	6	6		
	7	18		
6.00 3L = 2.00m.	1	129		
	2	129		
	3	123		
	4	171		
	5	27		
	6	6		
	7	21		

CONVENIO BAJOS SUBMERIDIONALES UNIDAD TECNICA SANTA FE		CONSEJO FEDERAL DE INVERSIONES PROVINCIA DE SANTA FE	
ESTUDIO:		ALCANTARILLA TIPO'E	
PROYECTO:			
DIBUJO:			
APROBO:			
OBSERVACIONES:		ES COPIA DEL PLANO DE LA D.G.A.E.H.	
		FECHA: DIC 84	ESCALA:
		Nº DE PLANO:	09