

**THE FEASIBILITY STUDY ON
THE AGUAN VALLEY AGRICULTURAL
DEVELOPMENT PROJECT
(SABA-OLANCHITO AREA)**

**FINAL REPORT
VOLUME III - DRAWINGS**

JUNE 1985

**JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)**

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FINAL REPORT
VOLUME III-DRAWINGS

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国際協力事業団

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Fig. S-1 **GENERAL PLAN**
PLANO GENERAL

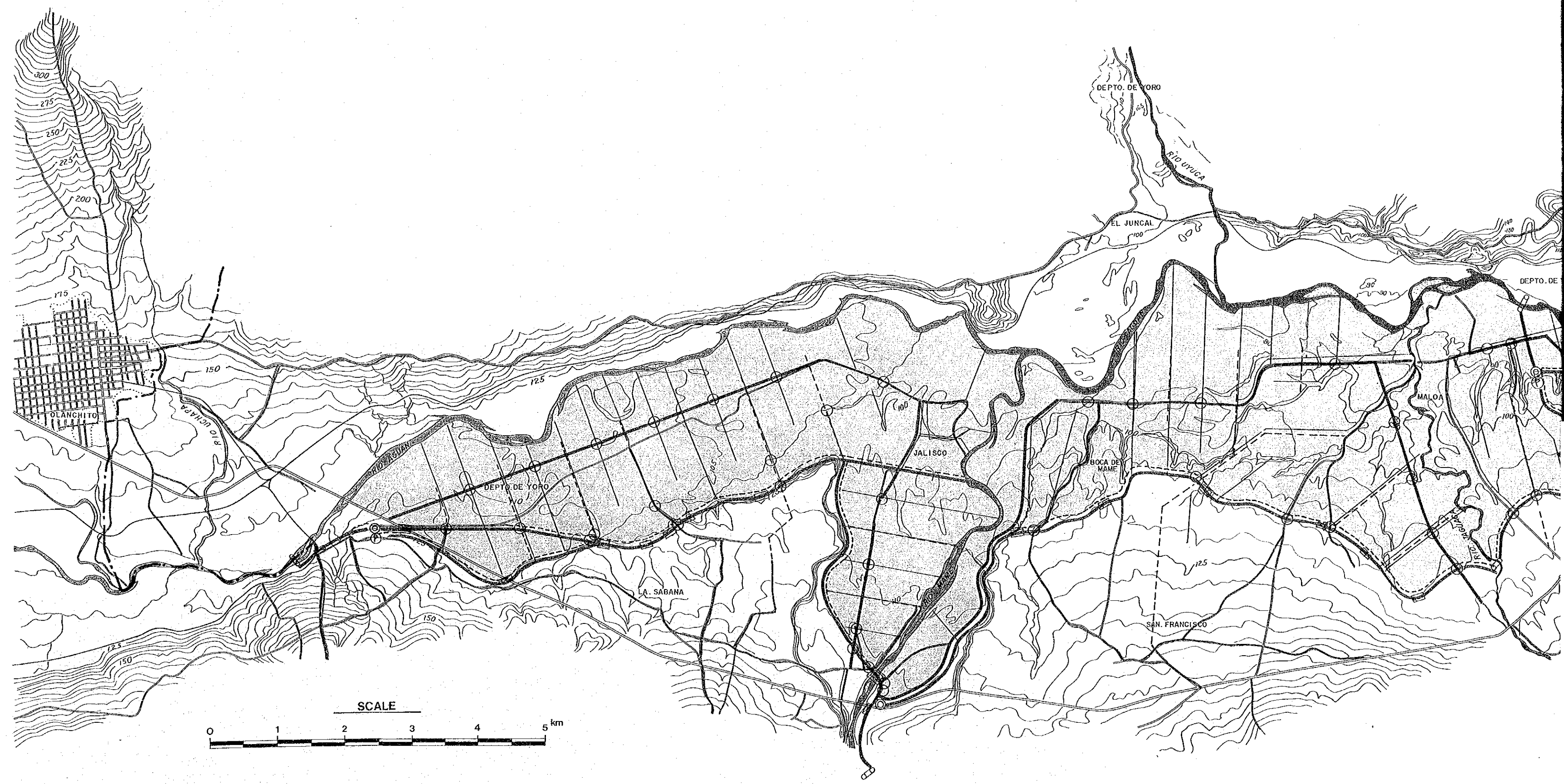
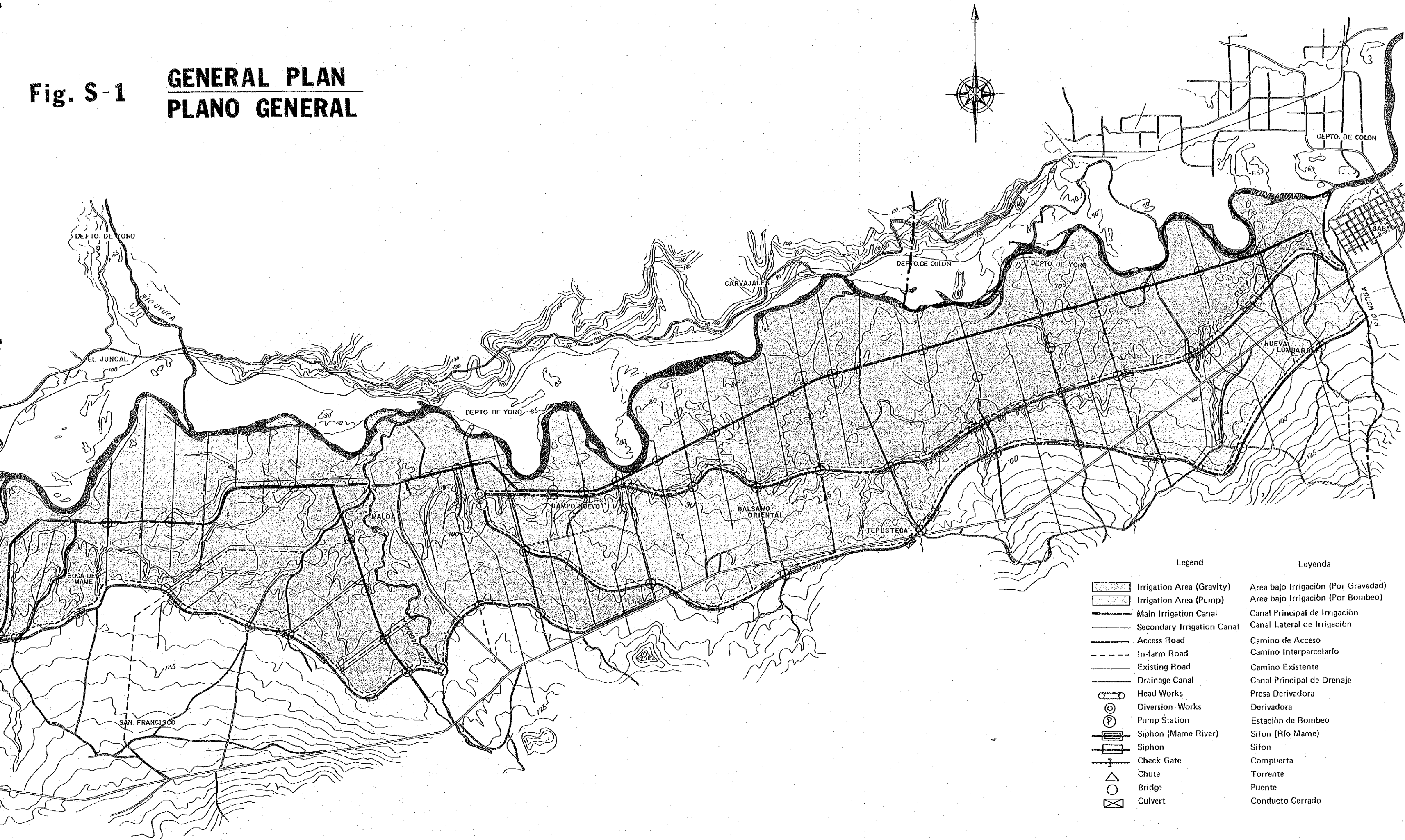


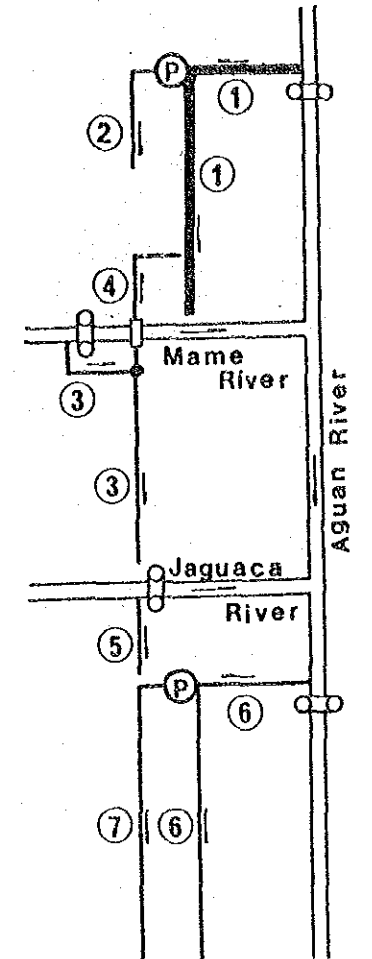
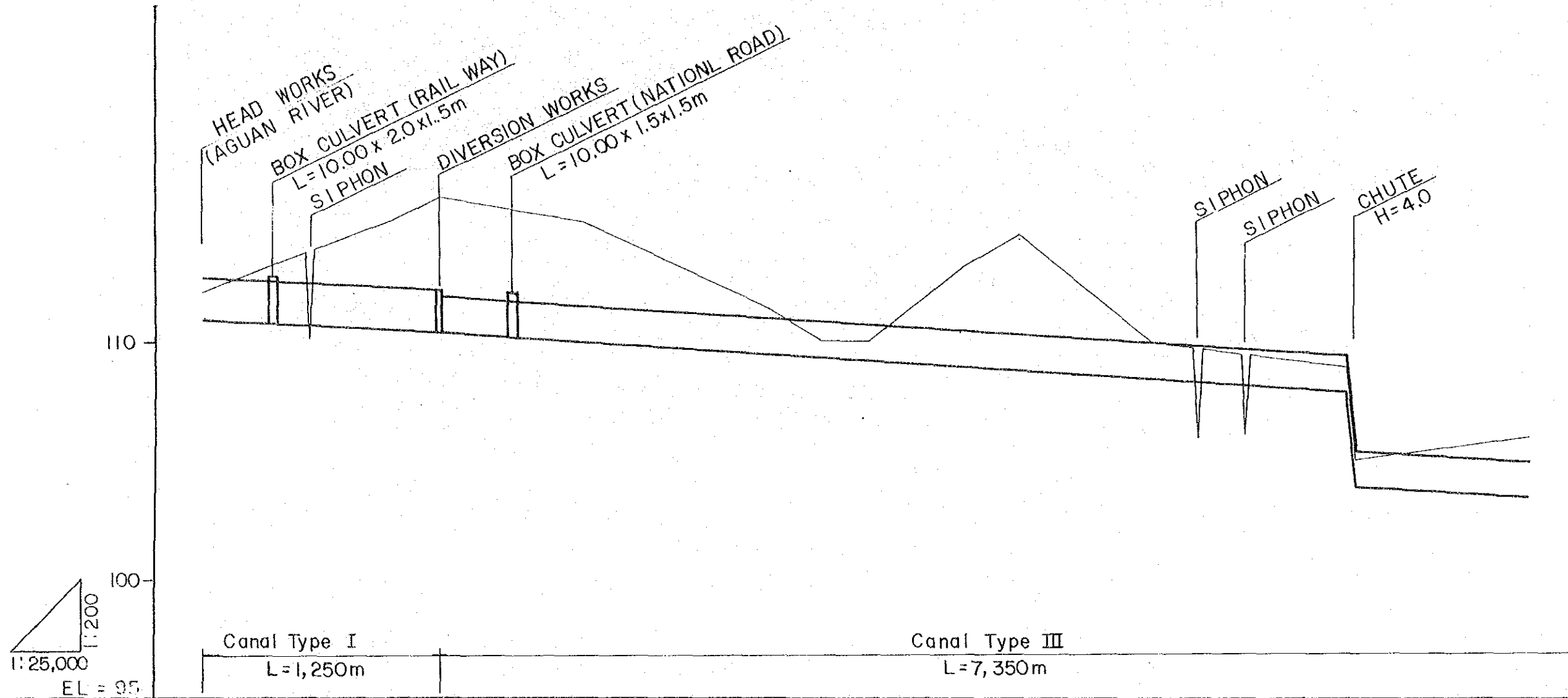
Fig. S-1

**GENERAL PLAN
PLANO GENERAL**



Legend	Leyenda
Irrigation Area (Gravity)	Area bajo Irrigación (Por Gravedad)
Irrigation Area (Pump)	Area bajo Irrigación (Por Bombeo)
Main Irrigation Canal	Canal Principal de Irrigación
Secondary Irrigation Canal	Canal Lateral de Irrigación
Access Road	Camino de Acceso
In-farm Road	Camino Interparcelario
Existing Road	Camino Existente
Drainage Canal	Canal Principal de Drenaje
Head Works	Presa Derivadora
Diversion Works	Derivadora
Pump Station	Estación de Bombeo
Siphon (Mame River)	Sifon (Rio Mame)
Siphon	Sifon
Check Gate	Compuerta
Chute	Torrente
Bridge	Puente
Culvert	Conducto Cerrado

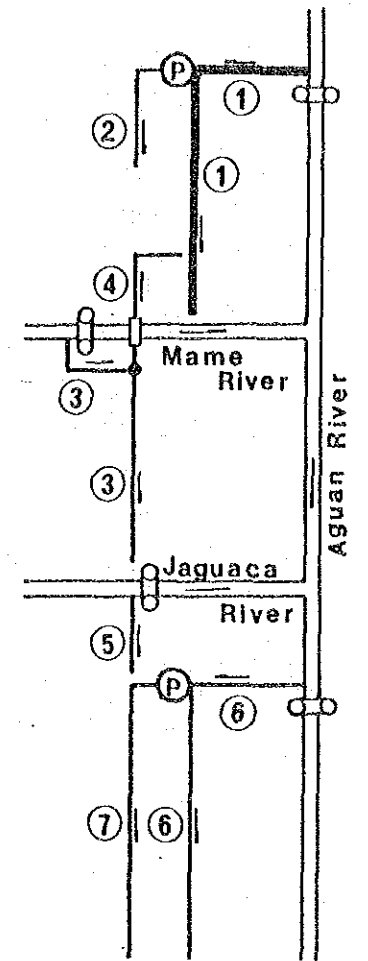
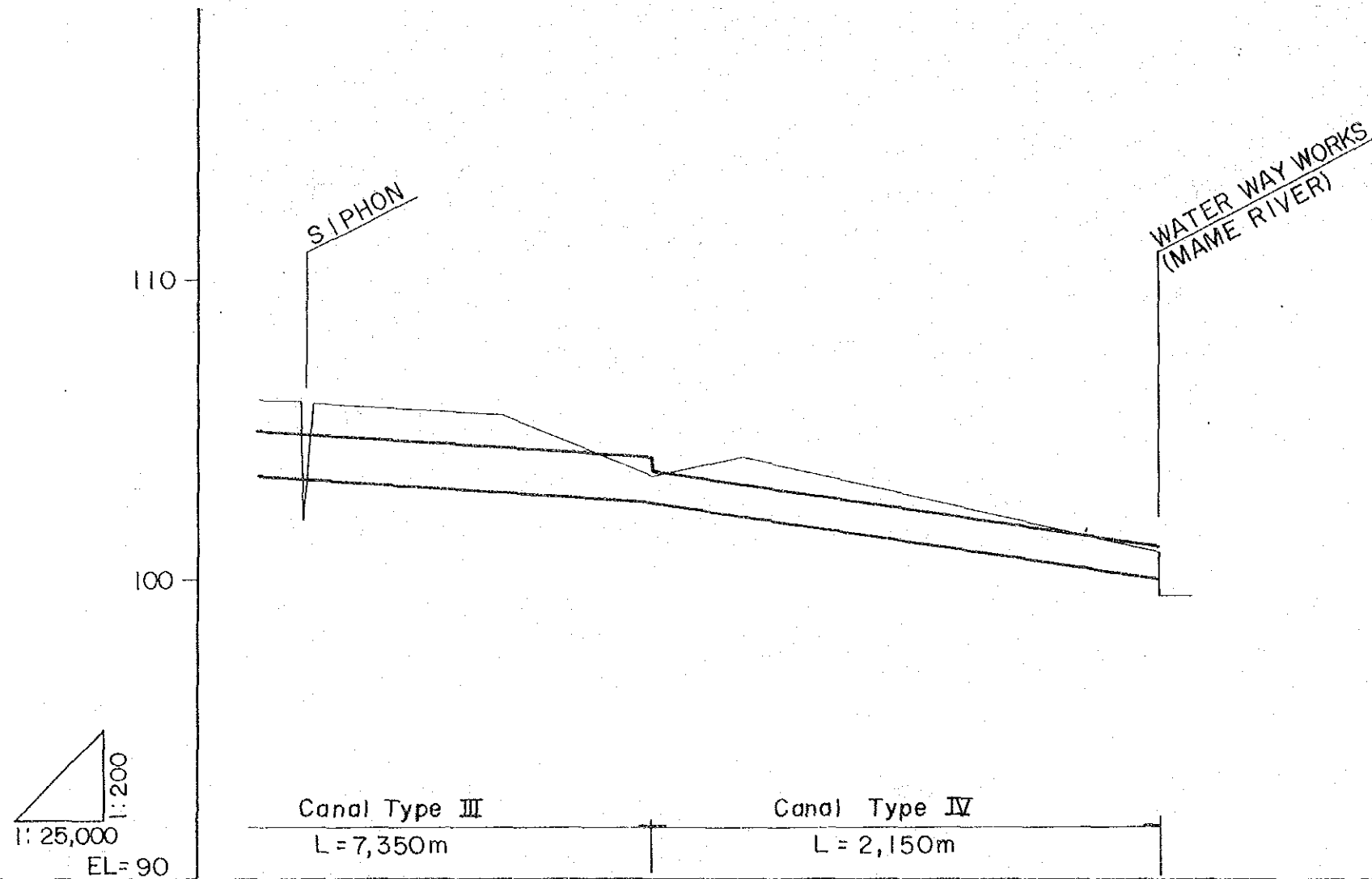
LONGITUDINAL PROFILE OF MAIN CANAL (I)



CANAL SLOPE														
CANAL BASE ELEVATION	110.80	110.40	110.30	109.93	109.43	109.31	109.19	108.93	108.78	108.43	107.93	107.90	103.90	103.46
GROUND SURFACE ELEVATION	112.00	115.00	116.00	115.00	112.30	110.00	110.00	113.10	114.50	110.00	109.00	109.00	105.00	106.00
REDUCED DISTANCE	0	1 000	1 250	2 000	3 000	3 250	3 500	4 000	4 300	5 000	6 000	6 050	6 129	7 000
DISTANCE	0	1 000	250	750	1 000	250	250	500	300	700	1 000	50	79	871
STATION	NO. 0	NO. 1	+ 250	NO. 2	NO. 3	+ 250	+ 500	NO. 4	+ 300	NO. 5	NO. 6	50	79	NO. 7

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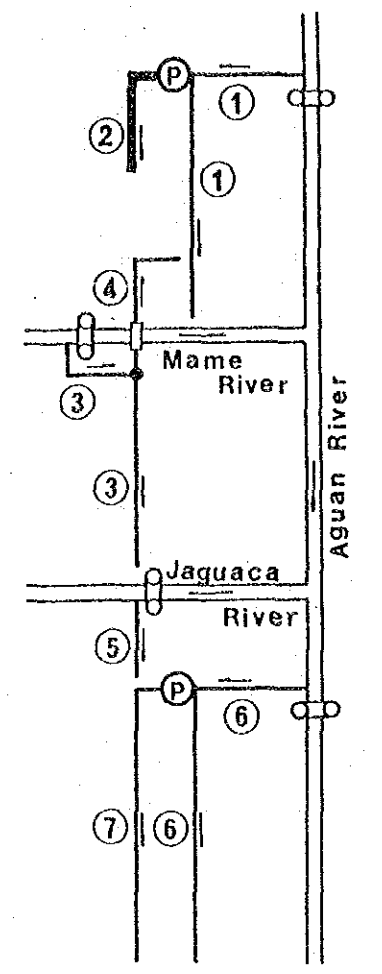
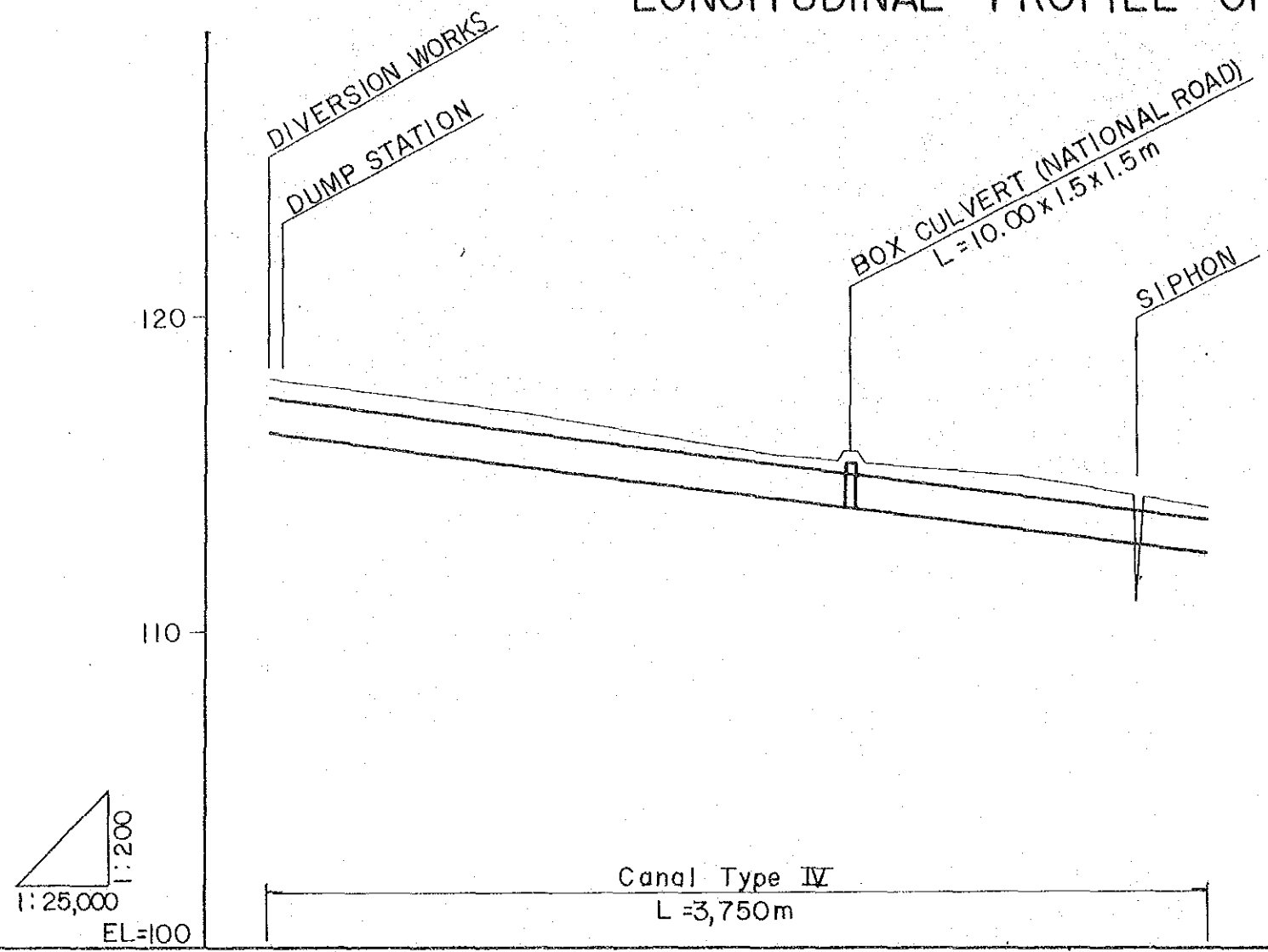
LONGITUDINAL PROFILE OF MAIN CANAL (I)



CANAL SLOPE						
CANAL BASE ELEVATION	103.46	102.96	102.66	102.26	101.26	100.51
GROUND SURFACE ELEVATION	106.00	105.50	103.50	104.20	102.30	101.00
REDUCED DISTANCE	7 000	8 000	8 600	9 000	10 000	10 750
DISTANCE	1 000	1 000	600	400	1 000	750
STATION	NO. 7	NO. 8	+ 600	NO. 9	NO. 10	+ 750

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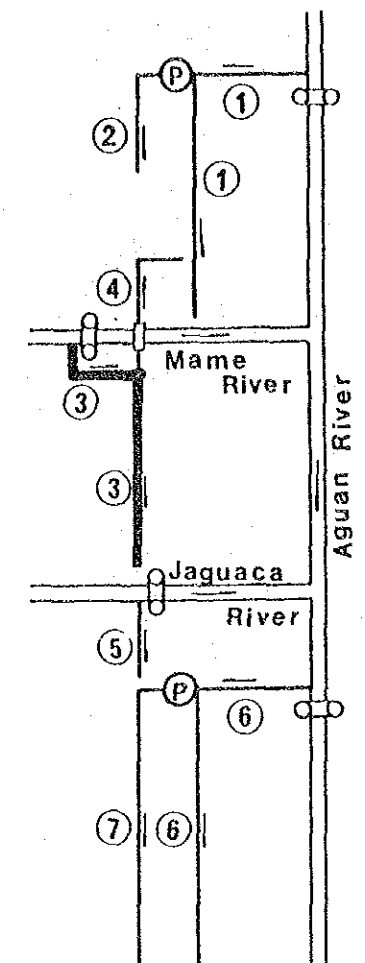
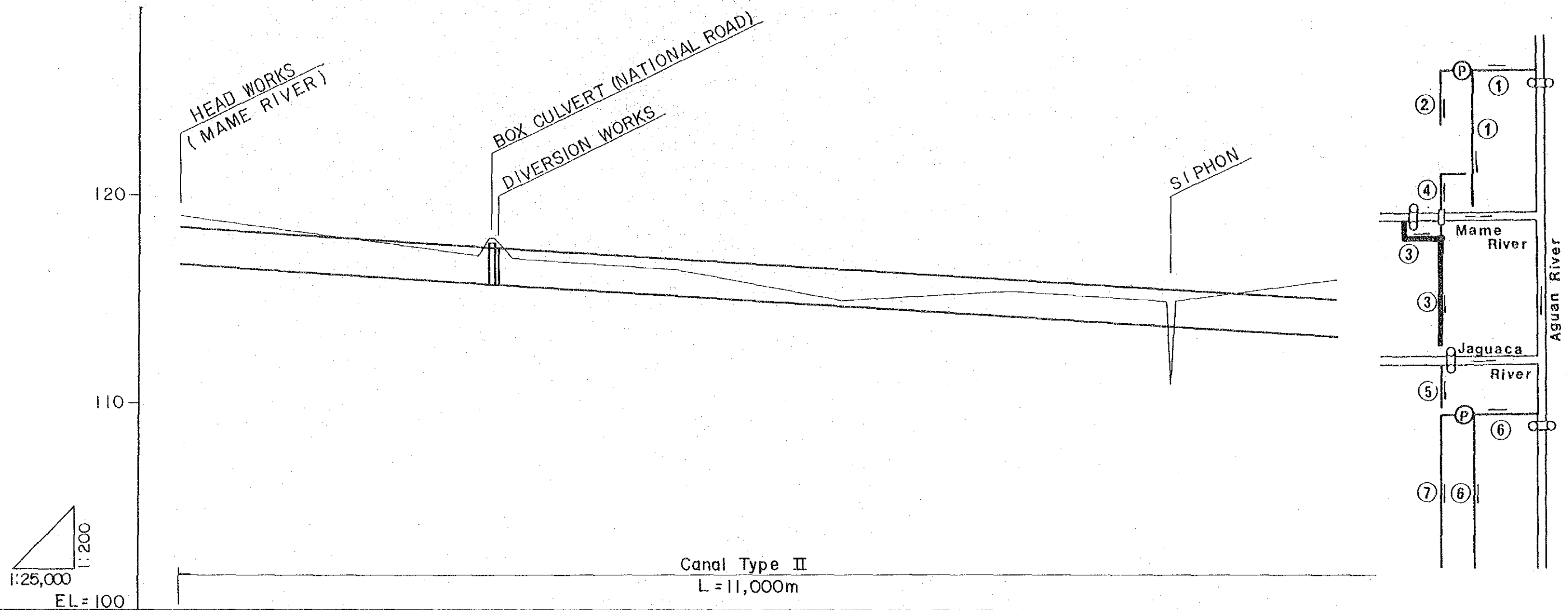
LONGITUDINAL PROFILE OF MAIN CANAL (2)



CANAL SLOPE	 I = 1 / 1000				
CANAL BASE ELEVATION	116.30	115.30	114.30	113.30	112.55
GROUND SURFACE ELEVATION	118.00	117.00	115.70	115.00	114.00
REDUCED DISTANCE	0	1 000	2 000	3 000	3 750
DISTANCE	0	1 000	1 000	1 000	750
STATION	NO. 0	NO. 1	NO. 2	NO. 3	+ 750

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 OF MAIN CANAL (2)
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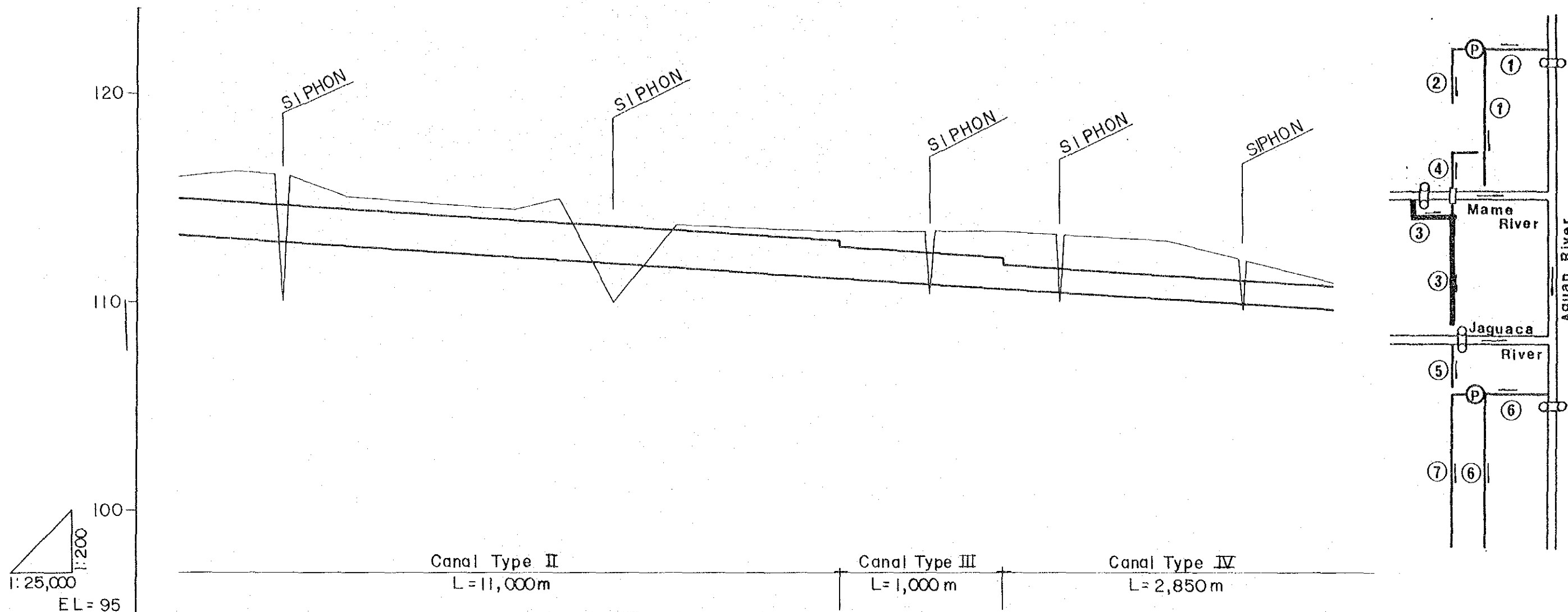
LONGITUDINAL PROFILE OF MAIN CANAL (3)



CANAL SLOPE	I = 1/2000							
CANAL BASE ELEVATION	116.74	116.24	115.80 115.74	115.24	114.74	114.24	113.74	113.24
GROUND SURFACE ELEVATION	119.00	118.00	117.00 117.00	116.50	115.00	115.50	115.00	116.00
REDUCED DISTANCE	0	1000	2000	3000	4000	5000	6000	7000
DISTANCE	0	1000	880 120	1000	1000	1000	1000	1000
STATION	NO. 0	NO. 1	+ 880 NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7

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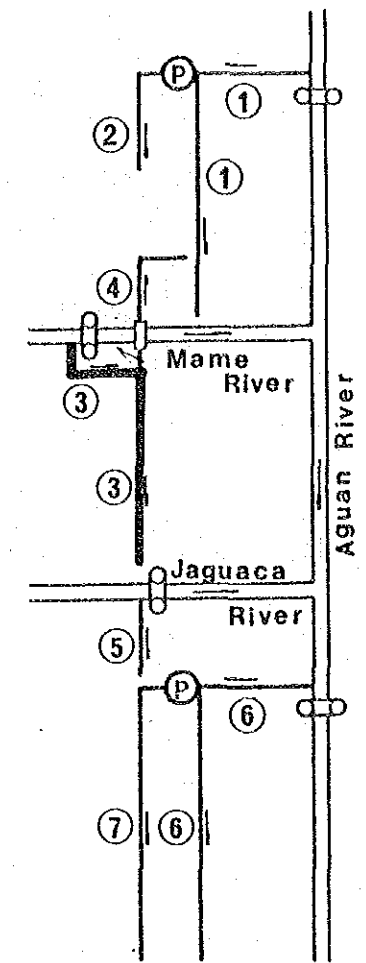
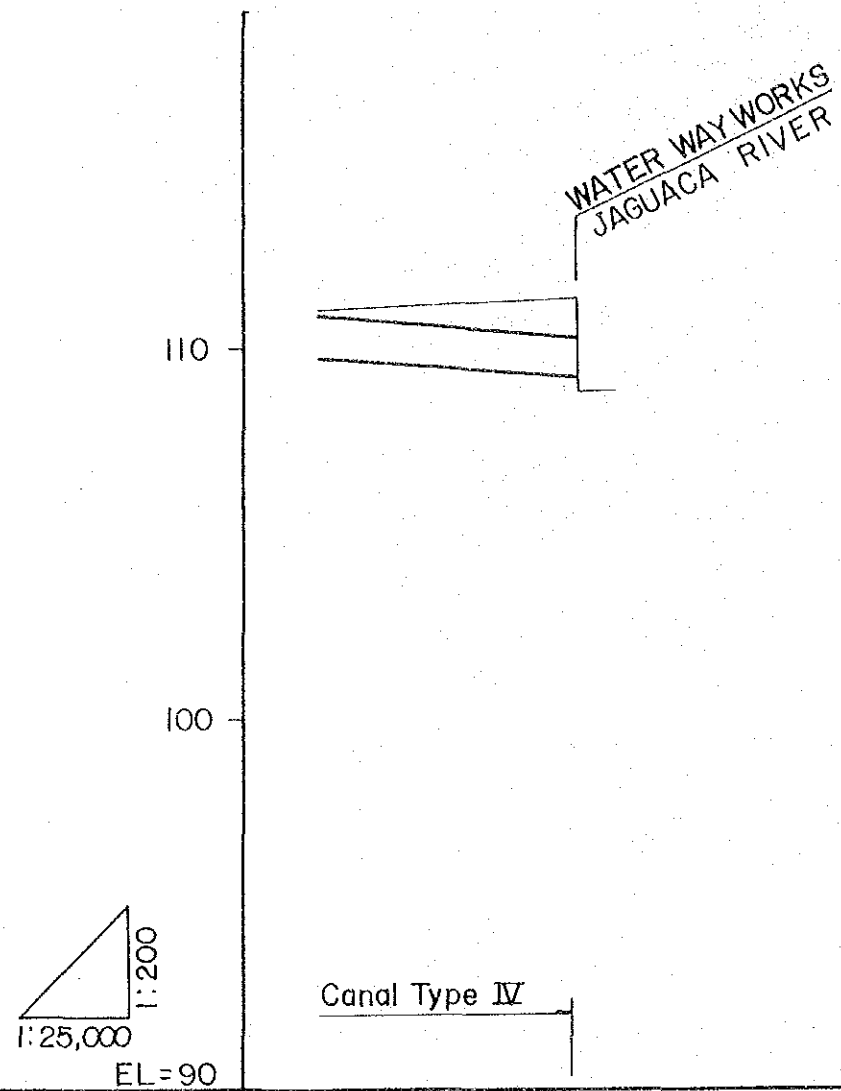
LONGITUDINAL PROFILE OF MAIN CANAL (3)



CANAL SLOPE	I = 1 / 2 000															
CANAL BASE ELEVATION	113.24	112.94	112.74	112.24	112.12	111.95	111.74	111.24	110.74	110.24	109.74					
GROUND SURFACE ELEVATION	116.00	110.00	115.00	114.50	115.00	110.00	113.80	113.50	113.50	113.00	111.00					
REDUCED DISTANCE	7 000	7 600	8 000	9 000	9 250	9 600	10 000	11 000	12 000	13 000	14 000					
DISTANCE	1 000	600	400	1 000	250	350	400	1 000	1 000	1 000	1 000					
STATION	NO. 7	+ 600	NO. 8	NO. 9	+ 150	+ 250	+ 600	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14				

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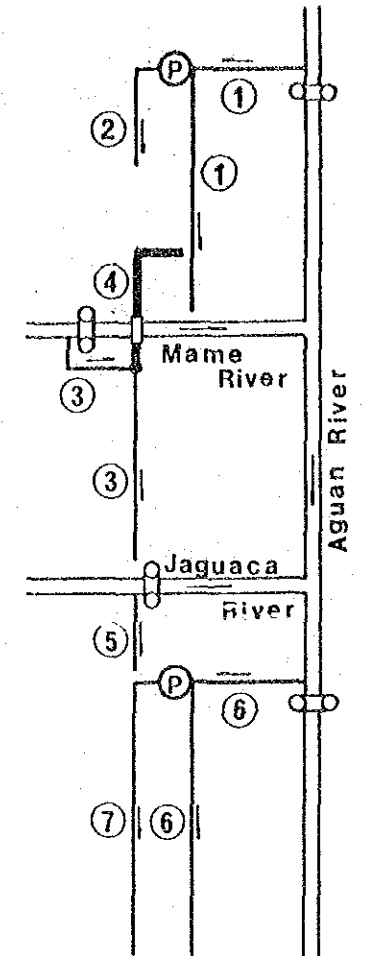
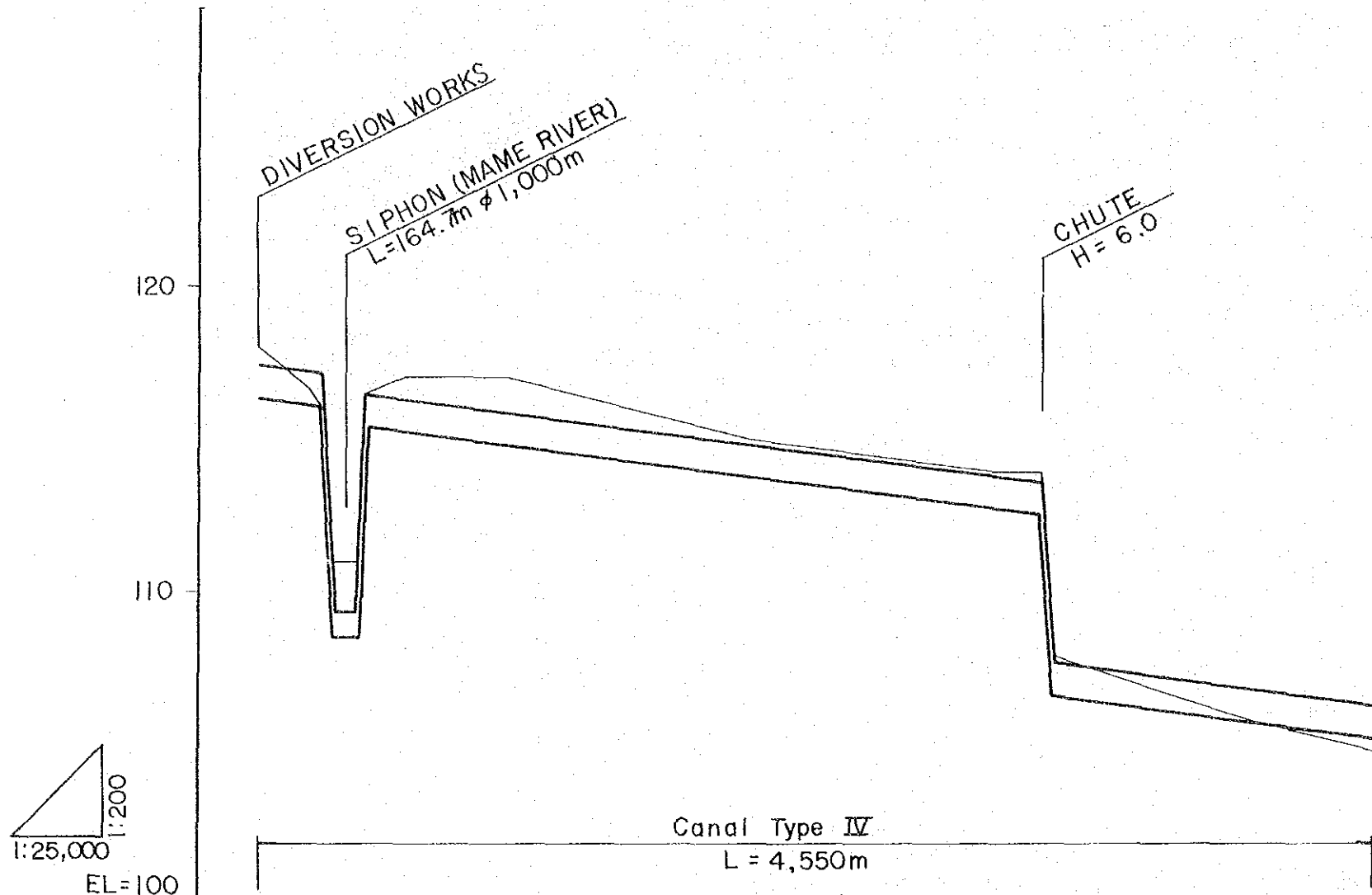
LONGITUDINAL PROFILE OF MAIN CANAL (3)



CANAL SLOPE	 I = 1 / 2000	
CANAL BASE ELEVATION	109.74	109.32
GROUND SURFACE ELEVATION	111.00	111.40
REDUCED DISTANCE	14 000	14 850
DISTANCE	1 000	850
STATION	NO. 14	+ 850

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 OF MAIN CANAL (3)
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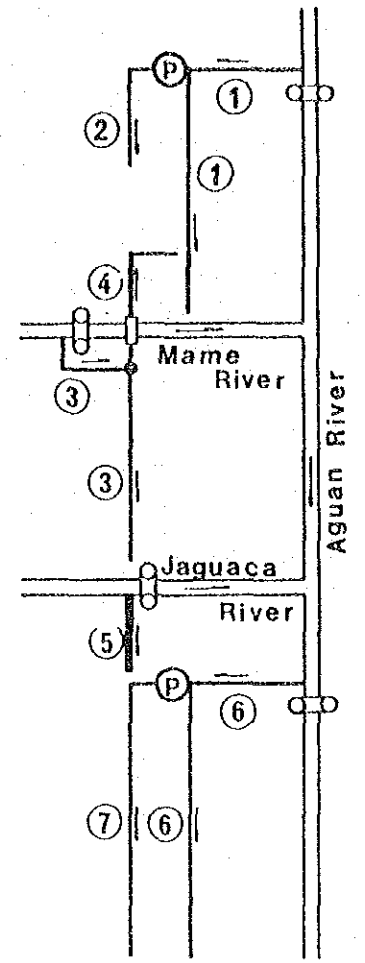
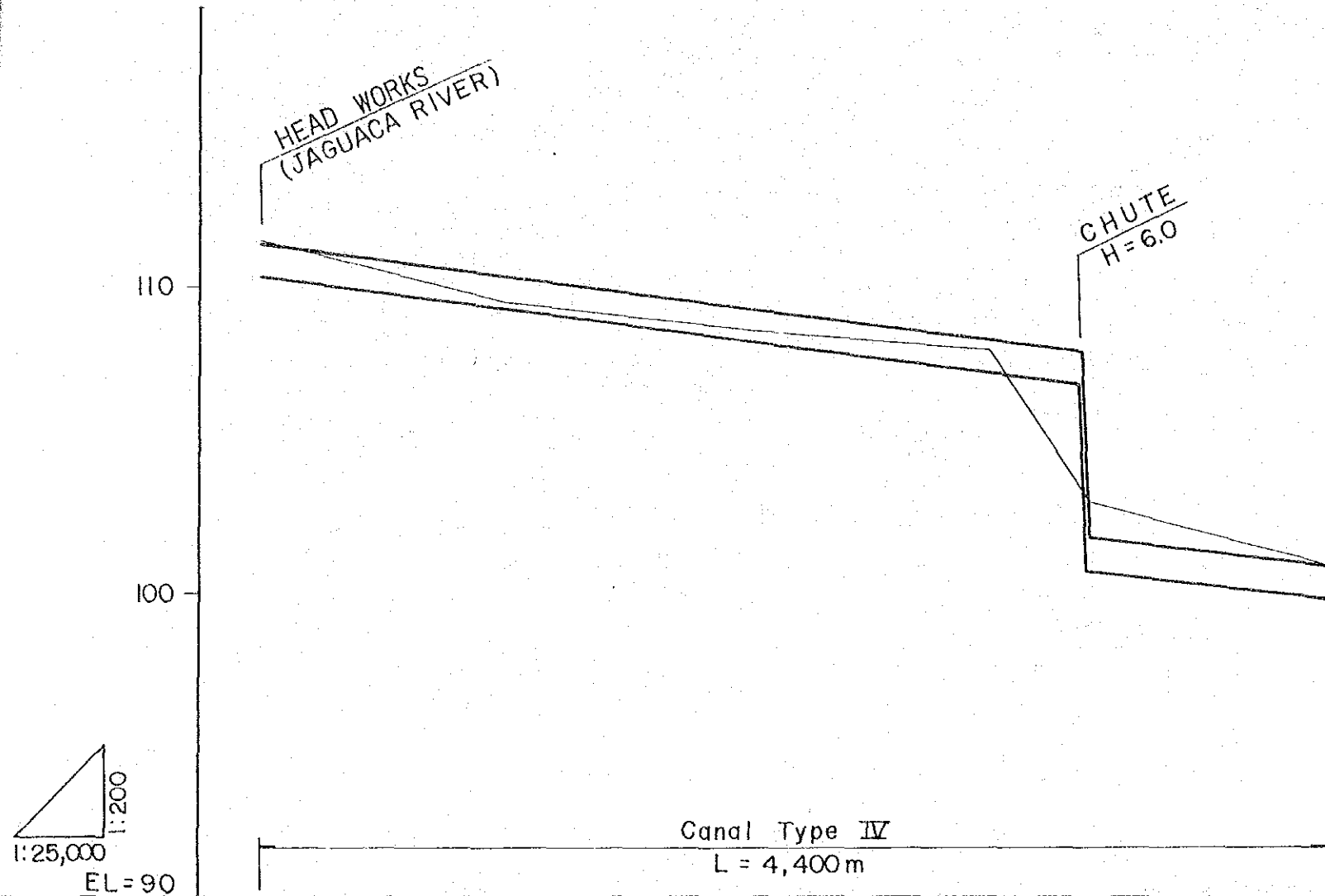
LONGITUDINAL PROFILE OF MAIN CANAL (4)



CANAL SLOPE												
CANAL BASE ELEVATION	116.30	116.05	108.50	108.50	115.40	114.82	113.82	112.82	112.62	106.62	105.85	105.30
GROUND SURFACE ELEVATION	118.00	116.00	111.00	111.00	116.50	117.00	115.00	114.00	114.00	108.00	106.00	104.80
REDUCED DISTANCE	0	250	280	380	415	1000	2000	3000	3200	3228	4000	4550
DISTANCE	0	250	530	910	925	585	1000	1000	1200	2228	772	550
STATION	NO. 0	250	280	380	415	NO. 1	NO. 2	NO. 3	+ 200	+ 228	NO. 4	+ 550

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LONGITUDINAL PROFILE OF MAIN CANAL (5)

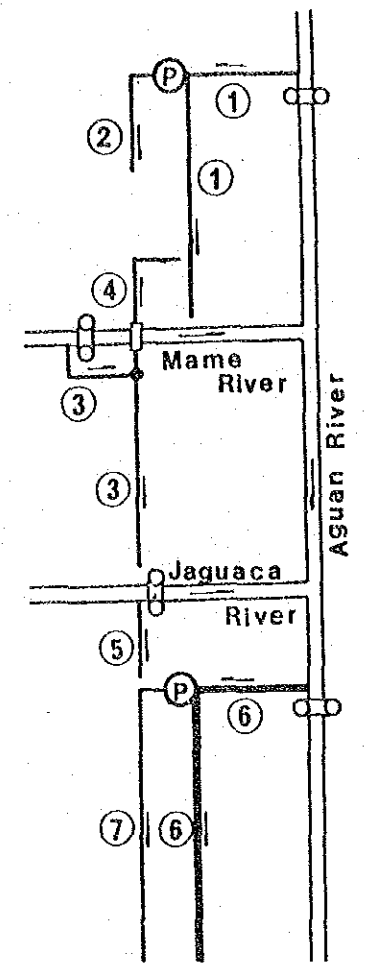
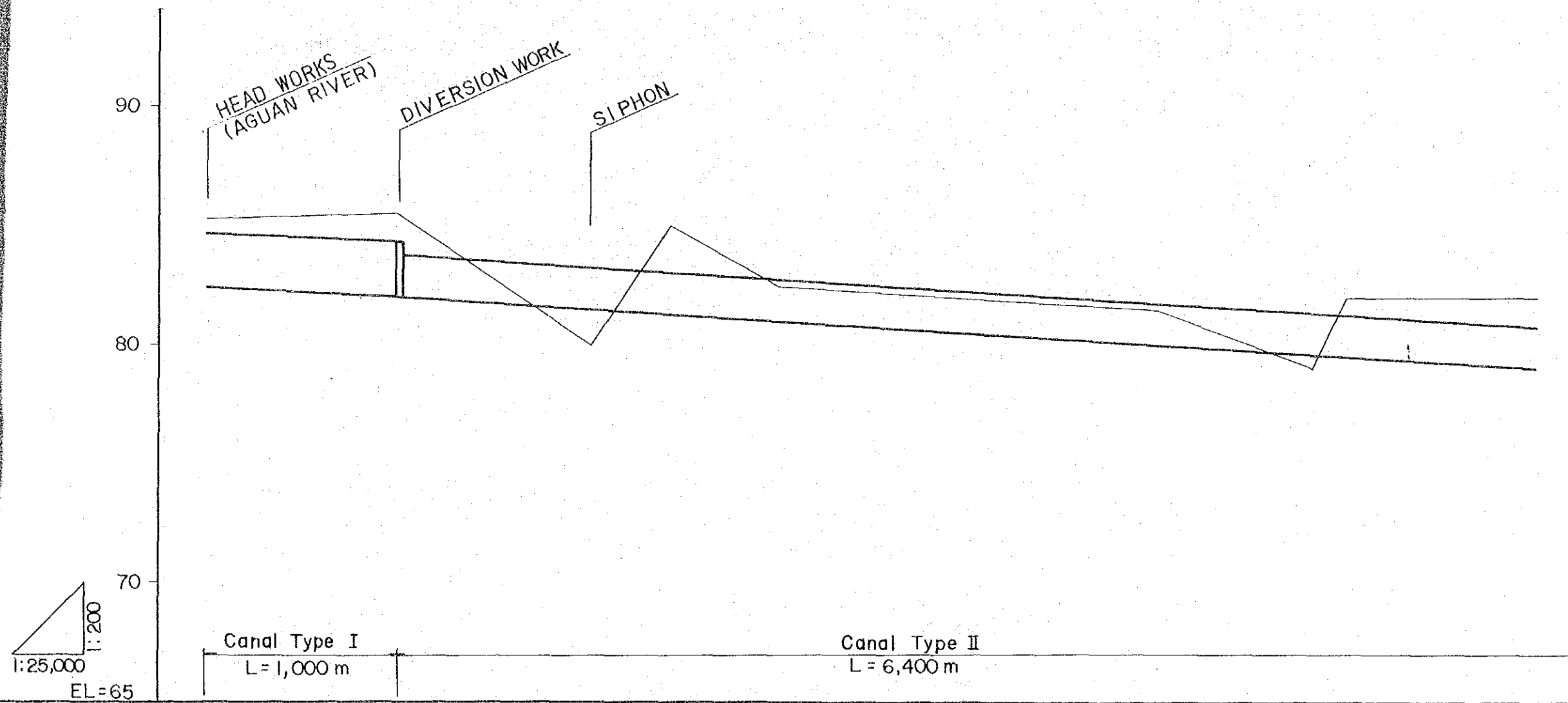


Canal Type IV
L = 4,400 m

CANAL SLOPE							
CANAL BASE ELEVATION	110.30	109.30	108.30	107.30	106.95 100.95	100.33	99.93
GROUND SURFACE ELEVATION	111.50	109.50	108.60	108.00	103.50 103.20	101.80	101.00
REDUCED DISTANCE	0	1 000	2 000	3 000	3 350 3 378	4 000	4 400
DISTANCE	0	1 000	1 000	1 000	350 28	622	400
STATION	NO. 0	NO. 1	NO. 2	NO. 3	+ 350 + 378	NO. 4	+ 400

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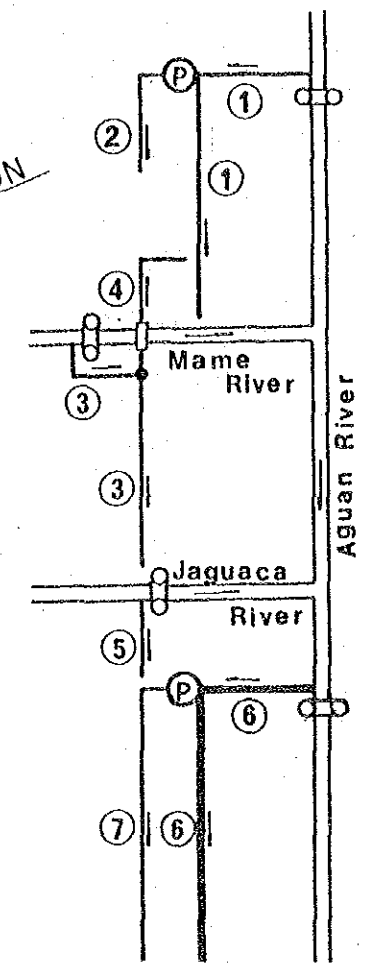
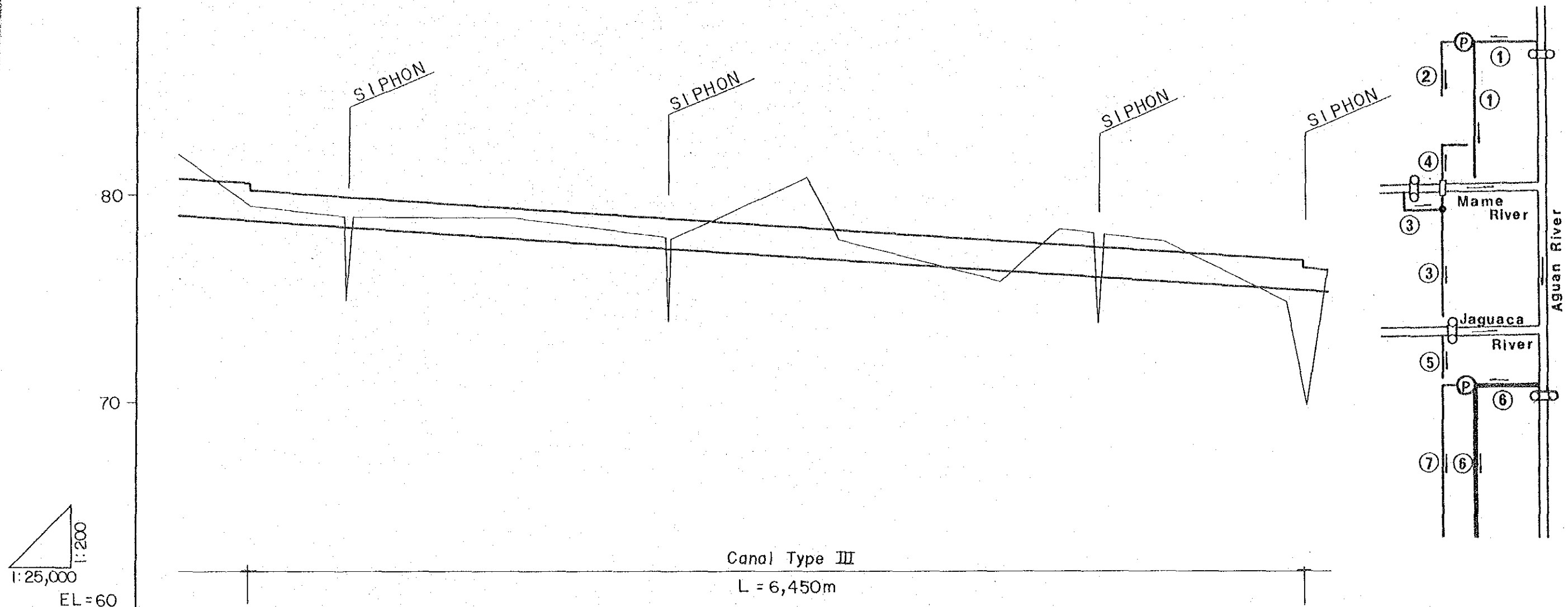
LONGITUDINAL PROFILE OF MAIN CANAL (6)



CANAL SLOPE										
CANAL BASE ELEVATION	82.40	82.00	81.50	81.30	81.00	80.50	80.00	79.60	79.50	79.00
GROUND SURFACE ELEVATION	85.20	85.50	80.00	85.00	82.50	82.00	81.50	79.00	82.00	82.00
REDUCED DISTANCE	0	1000	2000	2400	3000	4000	5000	5800	6000	7000
DISTANCE	0	1000	1000	400	600	1000	1000	800	200	1000
STATION	NO. 0	NO. 1	NO. 2	+ 400	NO. 3	NO. 4	NO. 5	+ 800	NO. 6	NO. 7

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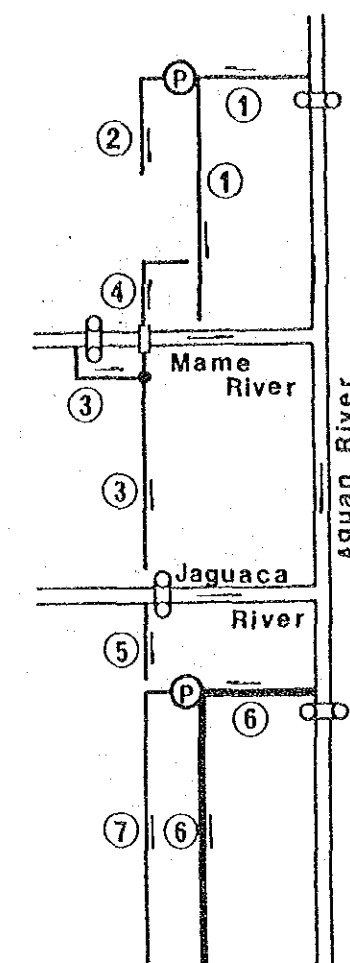
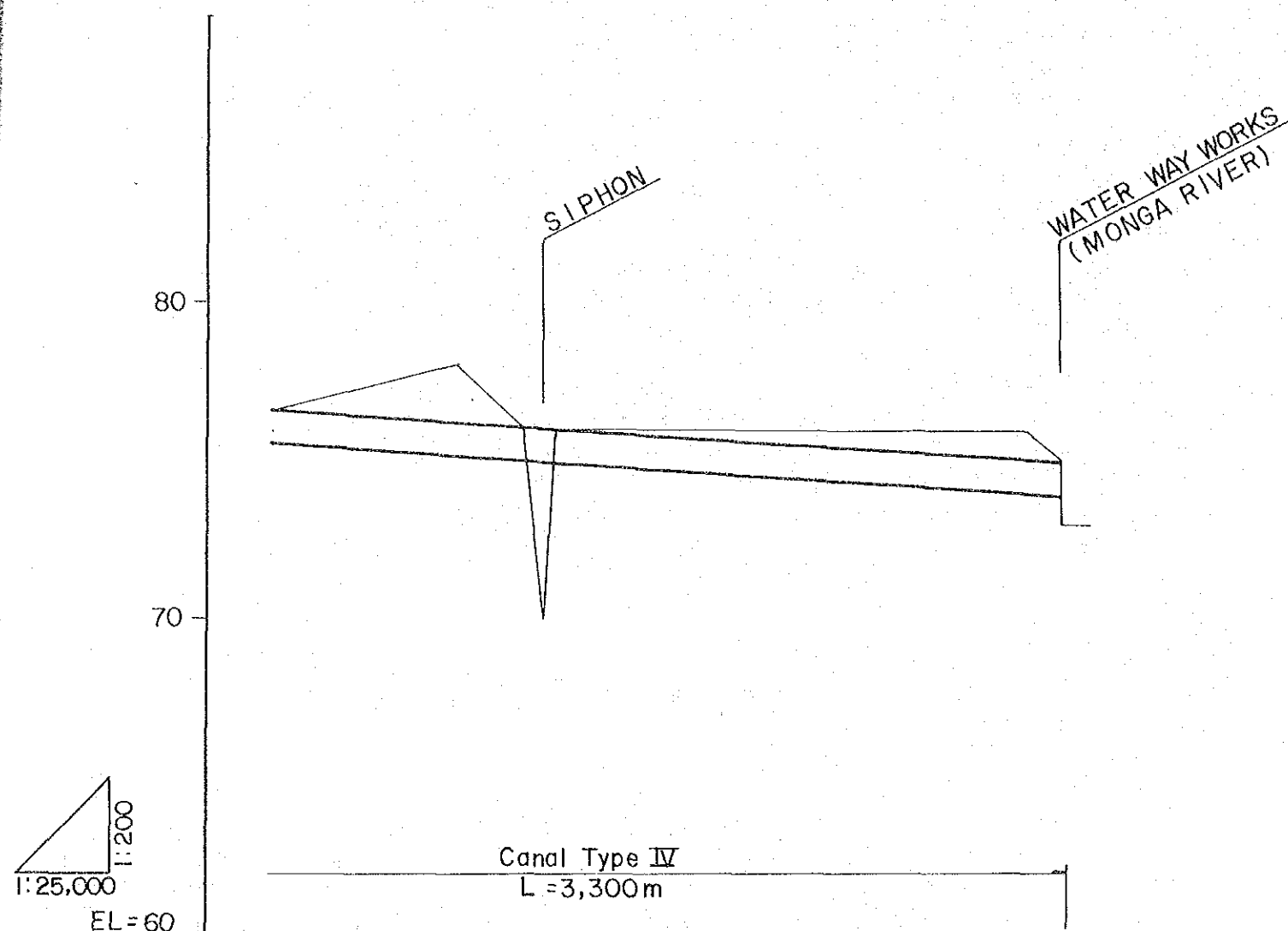
LONGITUDINAL PROFILE OF MAIN CANAL (6)



CANAL SLOPE	I = 1/2000												
CANAL BASE ELEVATION	79.00	78.80	78.50	78.00	77.50	77.10	77.00	76.50	76.33	76.00	75.63	75.58	75.50
GROUND SURFACE ELEVATION	82.00	79.50	79.00	79.00	78.00	81.00	78.00	76.00	78.50	78.00	75.00	70.00	76.50
REDUCED DISTANCE	7 000	7 400	8 000	9 000	10 000	10 800	11 000	12 000	12 350	13 000	13 750	13 850	14 000
DISTANCE	1 000	400	600	1 000	1 000	800	200	1 000	350	650	750	100	150
STATION	NO. 7	+ 400	NO. 8	NO. 9	NO. 10	+ 800	NO. 11	NO. 12	+ 350	NO. 13	+ 750	+ 850	NO. 14

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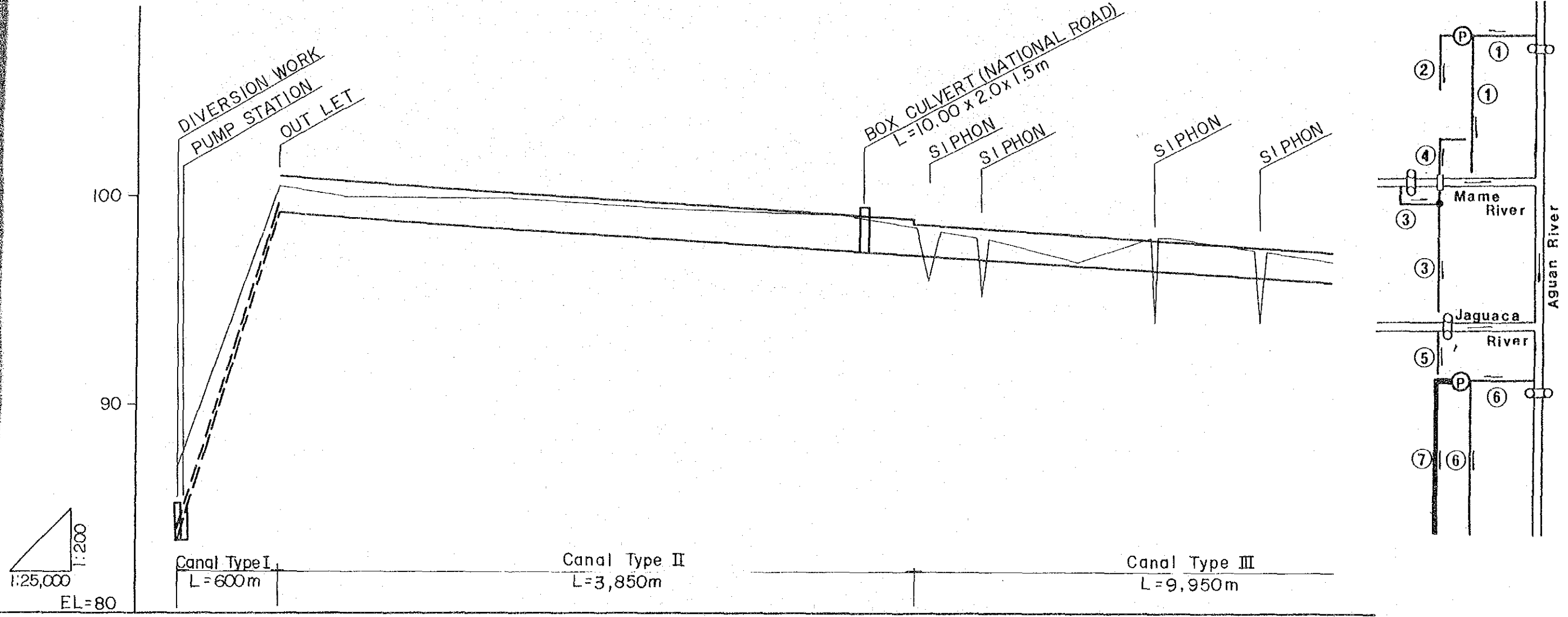
LONGITUDINAL PROFILE OF MAIN CANAL (6)



CANAL SLOPE	I = 1/2 000					
CANAL BASE ELEVATION	75.50	75.15	75.00 75.98 75.96	74.50	74.00	73.93
GROUND SURFACE ELEVATION	76.50	78.00	76.00 70.00 76.00	76.00	76.00	75.00
REDUCED DISTANCE	14 000	14 700	15 000 15 050 15 100	16 000	17 000	17 150
DISTANCE	150	700	1 000 50 50	900	1 000	150
STATION	NO. 14	+ 700	NO. 15 + 50 + 100	NO. 16	NO. 17 + 150	

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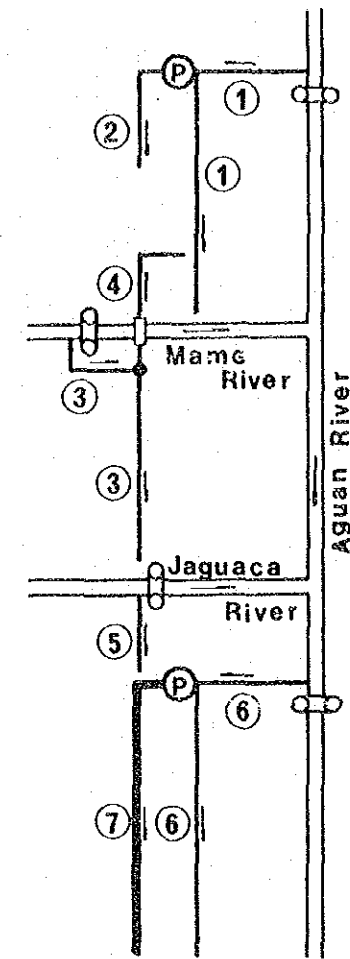
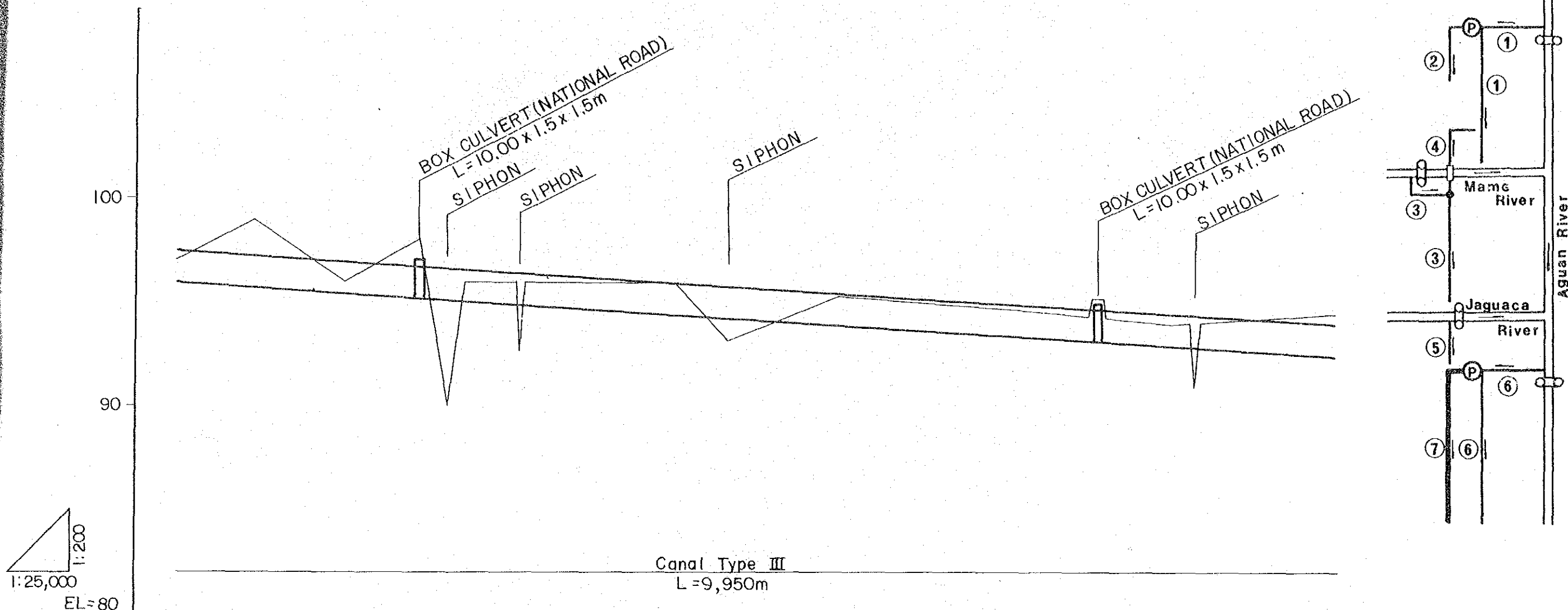
LONGITUDINAL PROFILE OF MAIN CANAL (7)



CANAL SLOPE	I = 1/2 000															
CANAL BASE ELEVATION		99.20	99.00		98.50	98.00		97.50	97.30	97.00		96.50		96.00		
GROUND SURFACE ELEVATION	87.00	100.50	100.00		100.00	99.50		99.20	98.00	98.00		98.20		97.00		
REDUCED DISTANCE	0	600	1 000		2 000	3 000		4 000	4 450	5 000		6 000		7 000		
DISTANCE	0	600	400		1 000	1 000		1 000	450	650		1 000		1 000		
STATION	NO. 0	+ 600	NO. 1		NO. 2		NO. 3		NO. 4	+ 450		NO. 5		NO. 6		NO. 7

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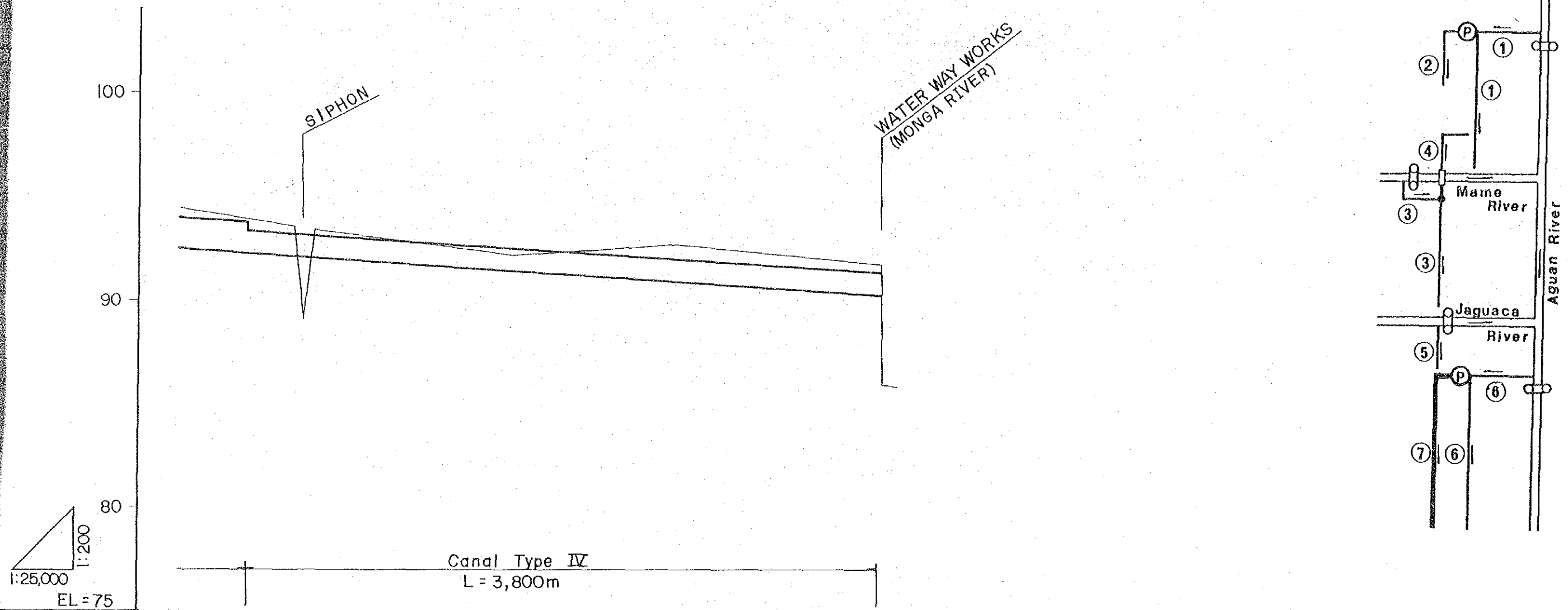
LONGITUDINAL PROFILE OF MAIN CANAL (7)



CANAL SLOPE	I = 1/2000												
CANAL BASE ELEVATION	96.00	95.78	95.50	95.28	95.21	95.16	95.00	94.50	94.35	94.00	93.50	93.00	92.50
GROUND SURFACE ELEVATION	97.00	99.00	96.00	98.00	90.00	96.00	96.00	94.00	95.40	94.80	94.00	94.00	94.50
REDUCED DISTANCE	7 000	7 450	8 000	8 450	8 600	8 700	9 000	10 000	10 300	11 000	12 000	13 000	14 000
DISTANCE	1 000	450	1 000	450	150	100	1 000	1 000	300	1 000	1 000	1 000	1 000
STATION	NO. 7	+ 450	NO. 8	+ 450	+ 600	+ 700	NO. 9	NO. 10	+ 300	NO. 11	NO. 12	NO. 13	NO. 14

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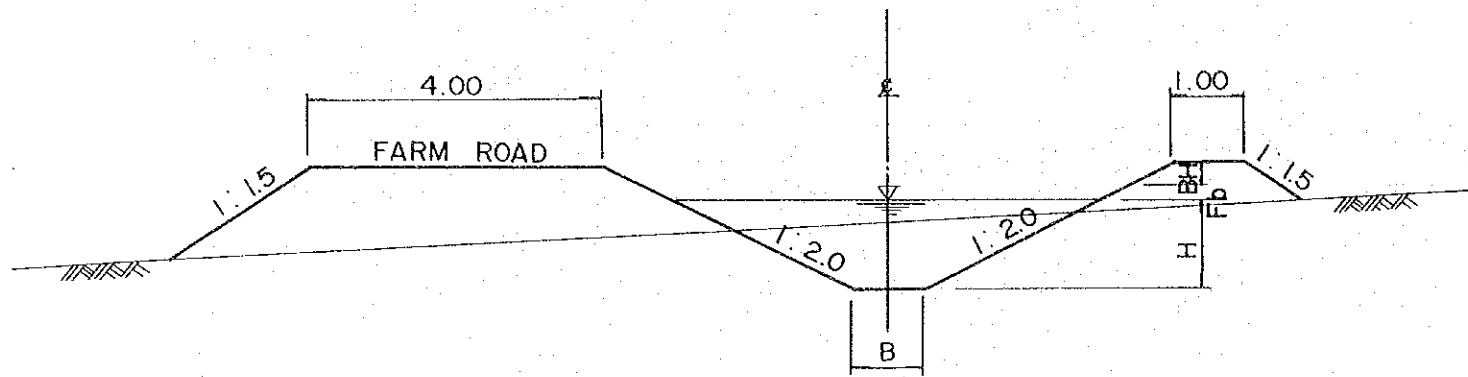
LONGITUDINAL PROFILE OF MAIN CANAL (7)



CANAL SLOPE	I = 1/2000					
CANAL BASE ELEVATION	92.50	92.30	92.00	91.50	91.00	90.50
GROUND SURFACE ELEVATION	94.50	94.00	93.20	92.20	92.80	91.80
REDUCED DISTANCE	14 000	14 400	15 000	16 000	17 000	18 000
DISTANCE	1 000	400	600	1 000	1 000	200
STATION	NO. 14	+ 400	NO. 15	NO. 16	NO. 17	NO. 18
						+ 200

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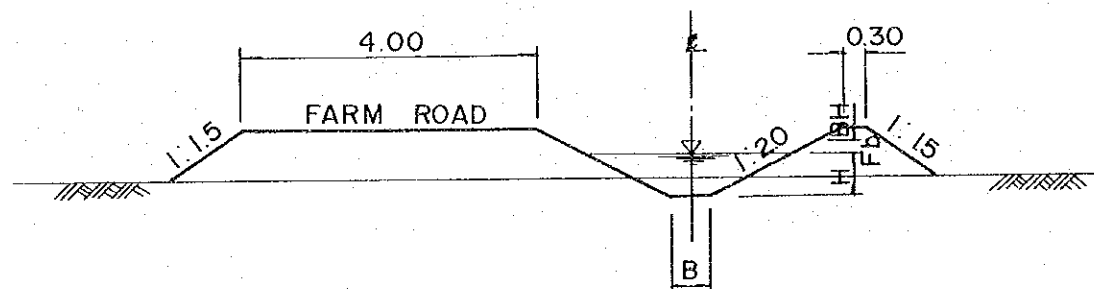
STANDARD CROSS SECTION OF IRRIGATION CANAL



MAIN CANAL

DIMENSION OF IRRIGATION TYPES (M)
UNIT: m

TYPE	B	H	Fb	B.H	REMARKS
I	1.50	1.60	0.30	0.40	
II	1.00	1.20	0.20	0.40	
III	0.75	1.00	0.20	0.30	
IV	0.50	0.70	0.20	0.20	



SECONDARY CANAL

DIMENSION OF IRRIGATION TYPES (S)
UNIT: m

TYPE	B	H	Fb	B.H	REMARKS
I	0.50	0.80	0.20	0.20	
II	0.50	0.50	0.20	0.20	

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