

DOMINICAN REPUBLIC

**FEASIBILITY STUDY
ON
THE AGUACATE-GUAYABO
AGRICULTURAL DEVELOPMENT PROJECT**


FINAL REPORT

**VOLUME 3
DRAWINGS**

AUGUST 1986

**JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)**

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DOMINICAN REPUBLIC

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AGRICULTURAL DEVELOPMENT PROJECT

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JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

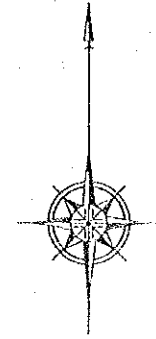
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LIST OF DRAWINGS

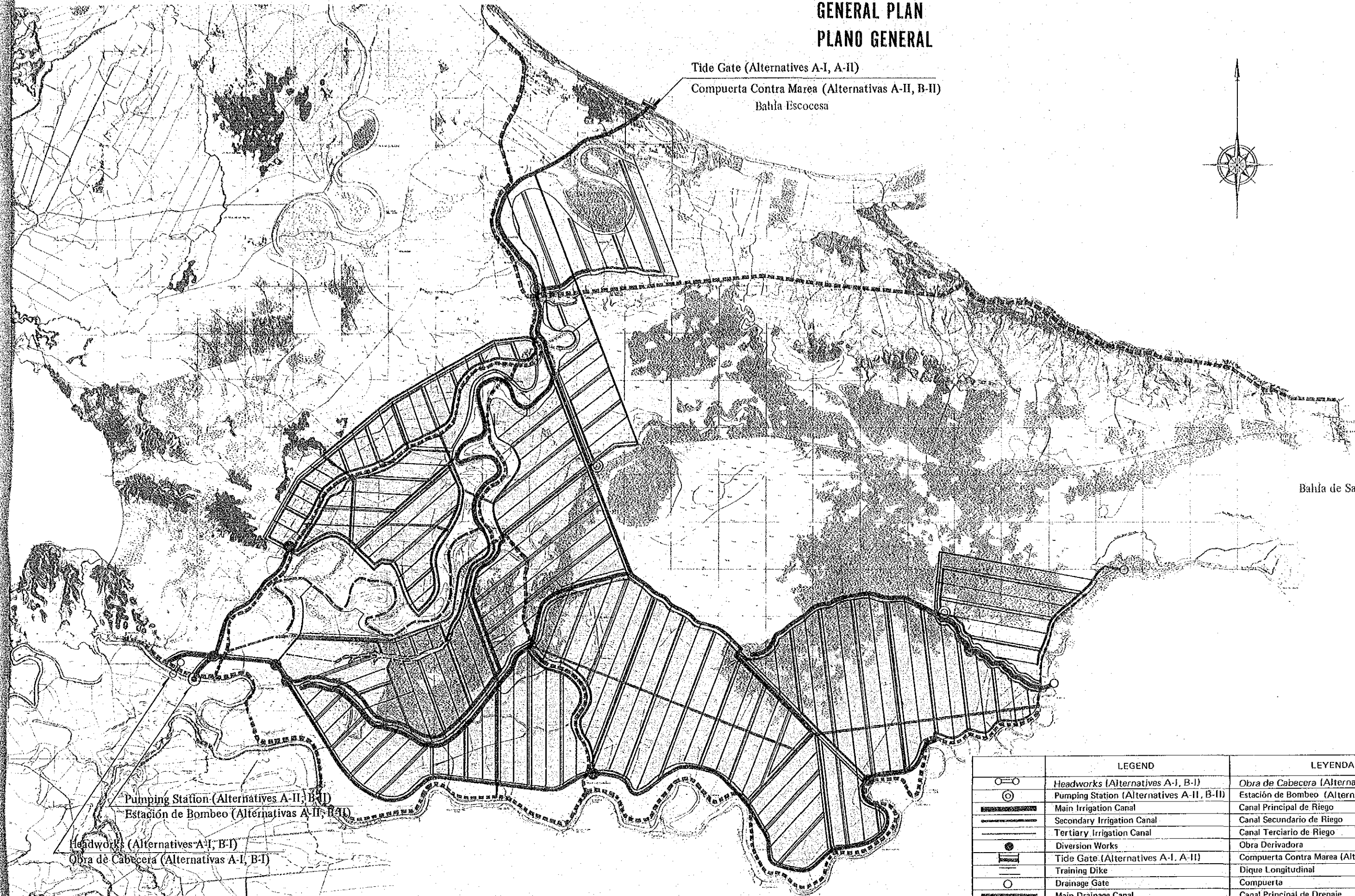
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Bahía Escocesa



Bahía de Samaná



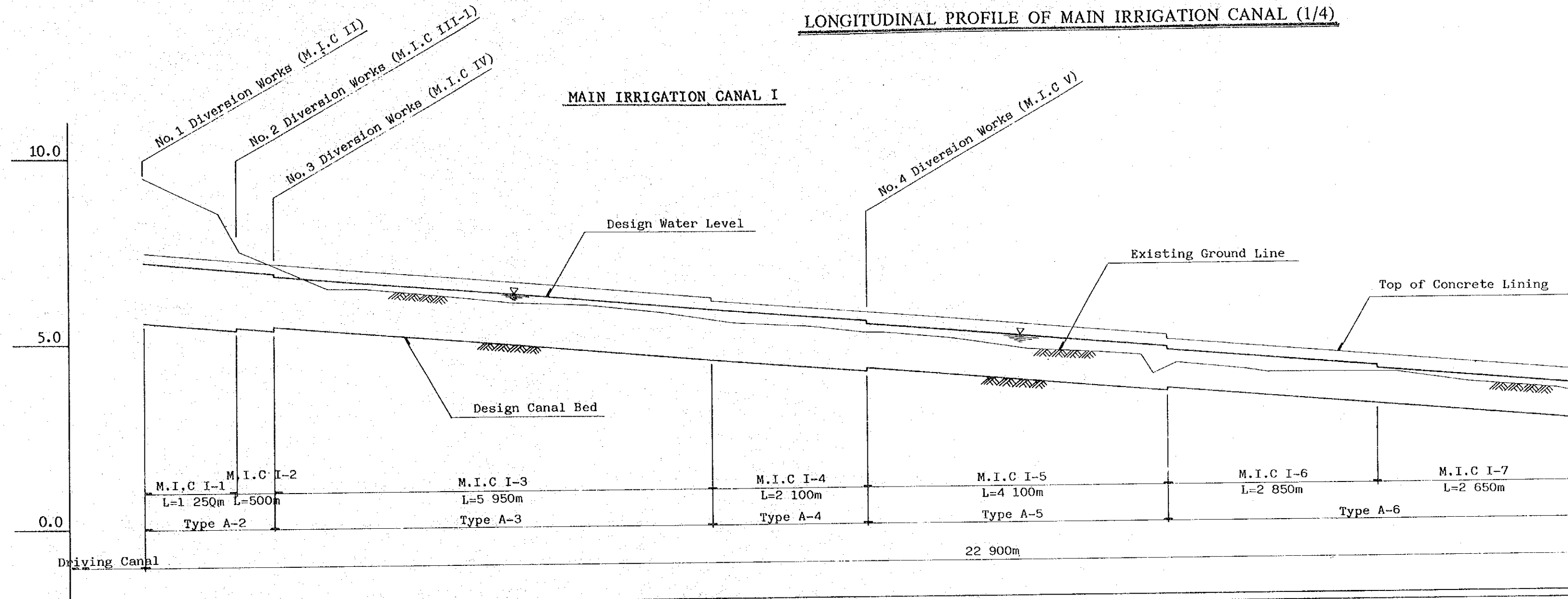
Pumping Station (Alternatives A-II, B-II)
Estación de Bombeo (Alternativas A-II, B-II)
Headworks (Alternatives A-I, B-I)
Obra de Cabeceira (Alternativas A-I, B-I)



Note: Alternatives A-I, A-II [Symbol] [Symbol]
Alternatives B-I, B-II [Symbol] [Symbol]
Nota: Alternativas A-I, A-II [Symbol] [Symbol]
Alternativas B-I, B-II [Symbol] [Symbol]

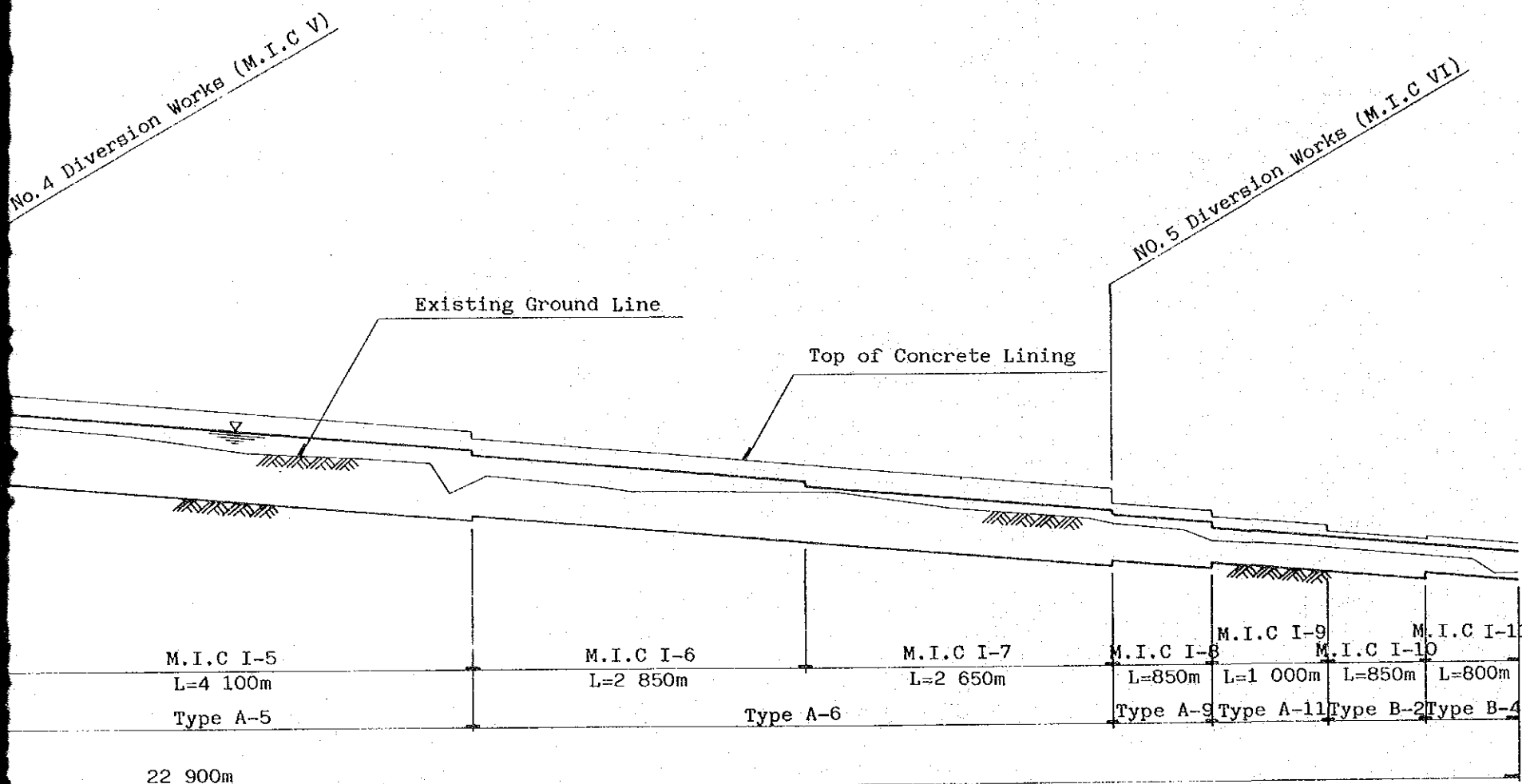
LEGEND		LEYENDA
	Headworks (Alternatives A-I, B-I)	Obra de Cabeceira (Alternativas A-I, B-I)
	Pumping Station (Alternatives A-II, B-II)	Estación de Bombeo (Alternativas A-II, B-II)
	Main Irrigation Canal	Canal Principal de Riego
	Secondary Irrigation Canal	Canal Secundario de Riego
	Tertiary Irrigation Canal	Canal Terciario de Riego
	Diversion Works	Obra Derivadora
	Tide Gate (Alternatives A-I, A-II)	Compuerta Contra Marea (Alternativas A-I, A-II)
	Training Dike	Dique Longitudinal
	Drainage Gate	Compuerta
	Main Drainage Canal	Canal Principal de Drenaje
	Secondary Drainage Canal	Canal Secundario de Drenaje
	Tertiary Drainage Canal	Canal Terciario de Drenaje
	Trunk Road (to be constructed)	Camino Vecinal (A construirse)
	Trunk Road (Existing)	Camino Vecinal (Existente)
	Lateral In-farm Road (I)	Camino Interparcelario Secundario (I)
	Lateral In-farm Road (II)	Camino Interparcelario Secundario (II)

LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (1/4)



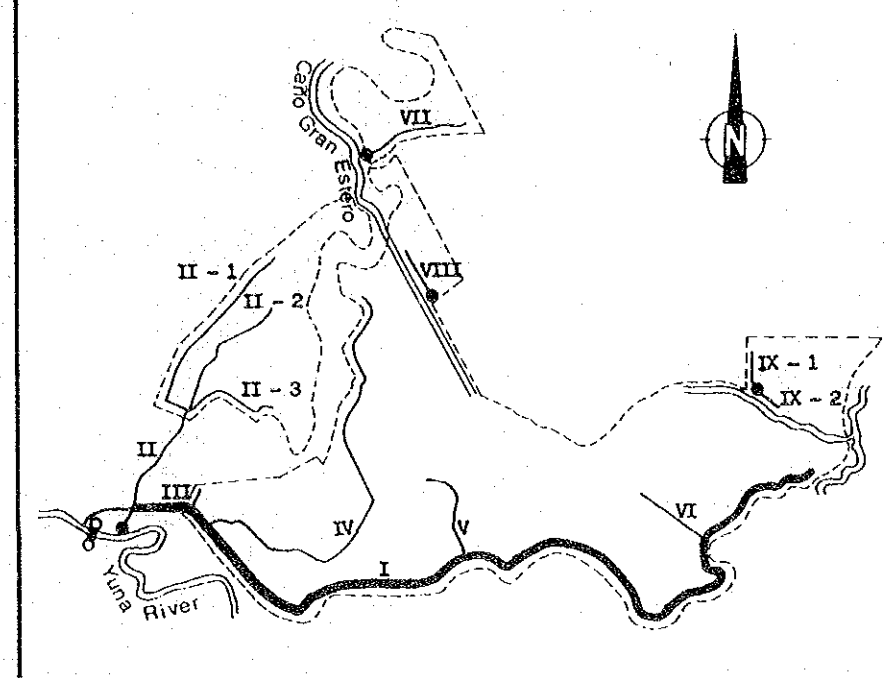
SLOPE	1:6 000																										
DESIGN WATER LEVEL	7.23	7.06	7.02	6.93	6.84	6.67	6.51	6.34	6.17	6.01	5.89	5.84	5.67	5.54	5.41	5.24	5.07	4.91	4.76	4.64	5.47	4.31	4.18	3.87	3.71	3.64	
DESIGN CANAL BED	5.61	5.44	5.40	5.35	5.43	5.26	5.10	4.93	4.76	4.60	4.48	4.51	4.34	4.21	4.23	4.06	3.89	3.73	3.58	3.57	4.40	3.24	3.11	2.88	2.72	2.65	
GROUND LEVEL	9.50	8.60	7.80	7.20	7.00	6.50	6.30	6.10	6.00	5.80	5.50	5.50	5.40	5.20	5.20	5.00	4.70	4.60	4.20	4.50	4.10	4.00	4.00	4.00	3.70	3.50	3.40
ACCUMULATED DISTANCE	1 000	1 000	1 250	1 750	2 000	3 000	4 000	5 000	6 000	7 000	7 700	8 000	9 000	9 800	10 000	11 000	12 000	13 000	13 800	14 000	15 000	16 000	16 750	17 000	18 000	19 000	19 600
STATION	NO.0	NO.1		NO.2		NO.3	NO.4	NO.5	NO.6	NO.7	NO.8	NO.9	NO.10	NO.11	NO.12	NO.13	NO.14	NO.15	NO.16	NO.17	NO.18	NO.19					

LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (1/4)



I=1/6 000

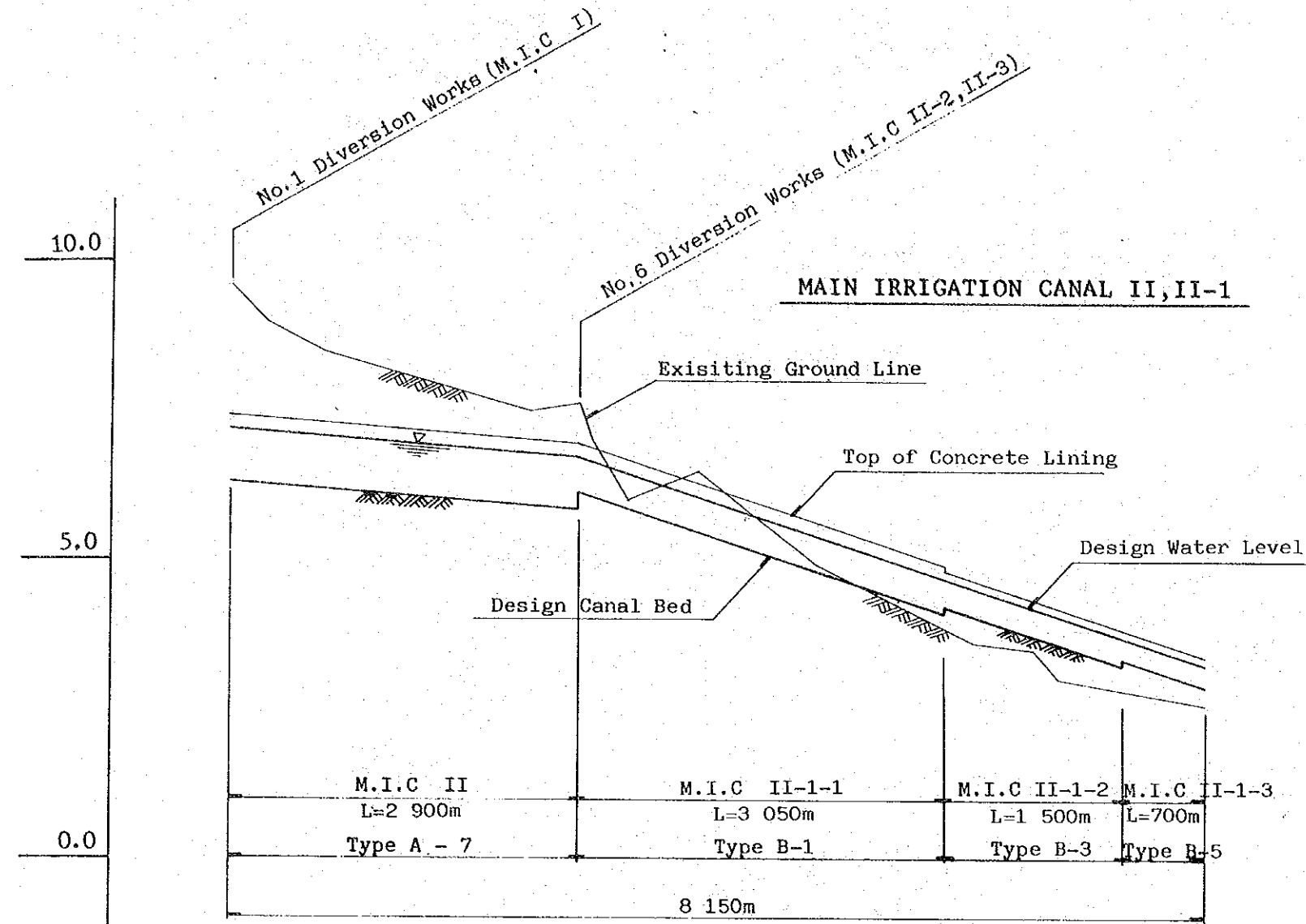
NO.10	NO.11	NO.12	NO.13	NO.14	NO.15	NO.16	NO.17	NO.18	NO.19	NO.20	NO.21	NO.22		
5.24 5.41	5.24	5.07	4.91	4.76 (4.66) 4.64	5.47	4.31	4.18 (4.08) 4.04	3.87	3.71	3.64 (3.54)	3.44 3.40 (3.30)	3.17 3.13	3.01 2.99 (2.53)	2.86
4.23	4.06	3.89	3.73	3.58 (3.59) 3.57	4.40	3.24	3.11 (3.09) 3.05	2.88	2.72	2.65 (2.55)	2.45 2.41 (2.70)	2.57 2.53 (2.51)	2.39 2.37 (2.53)	2.40
5.20	5.00	4.70	4.60	4.20 4.30	4.10	4.00	4.00	3.70	3.50	3.40	3.30 3.10	3.00 3.00	2.80 2.80	2.50
10 000	11 000	12 000	13 000	13 900 14 000	15 000	16 000	16 750 17 000	18 000	19 000	19 400	20 000 20 250	21 000 21 250	22 000 22 100	22 900



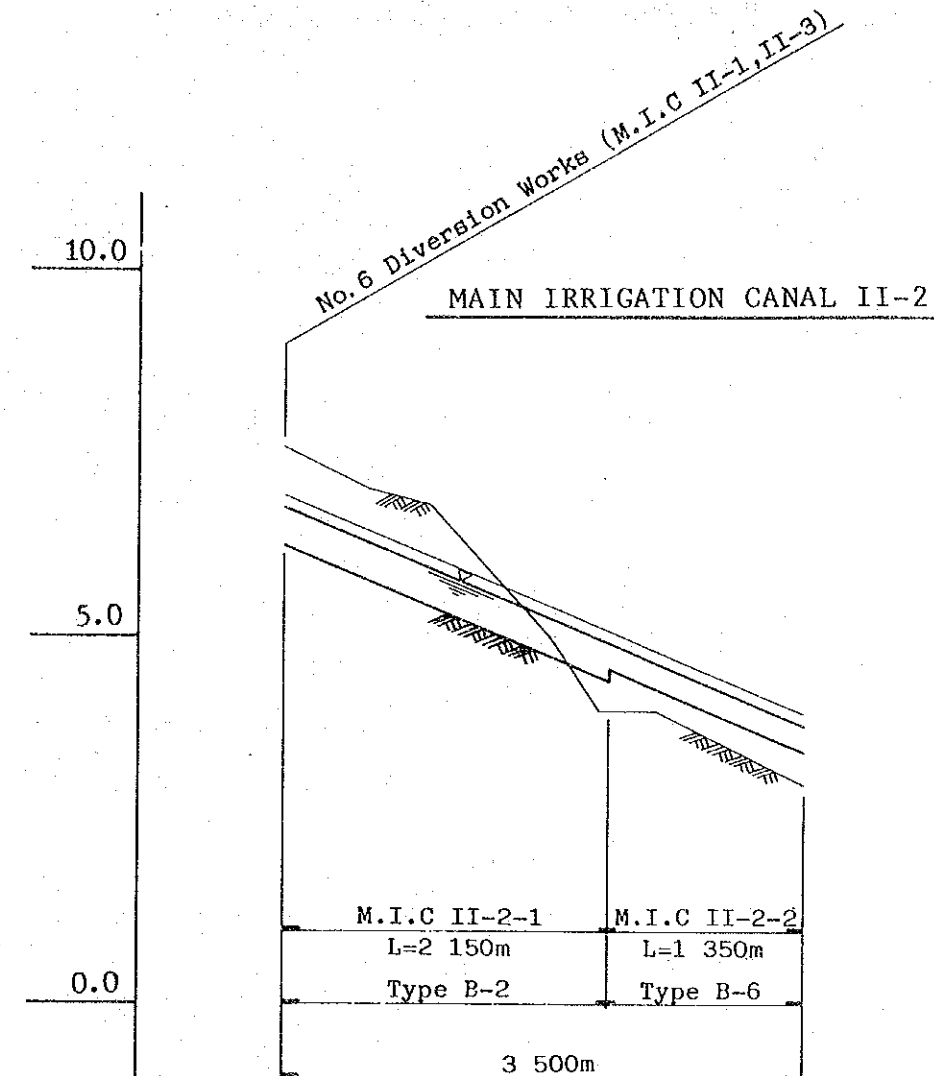
Note : M.I.C - Main Irrigation Canal

THE DOMINICAN REPUBLIC	
THE AGUACATE-GUAYABO AGRICULTURAL DEVELOPMENT PROJECT	
LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (1/4)	
AUGUST, 1986	No.1
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

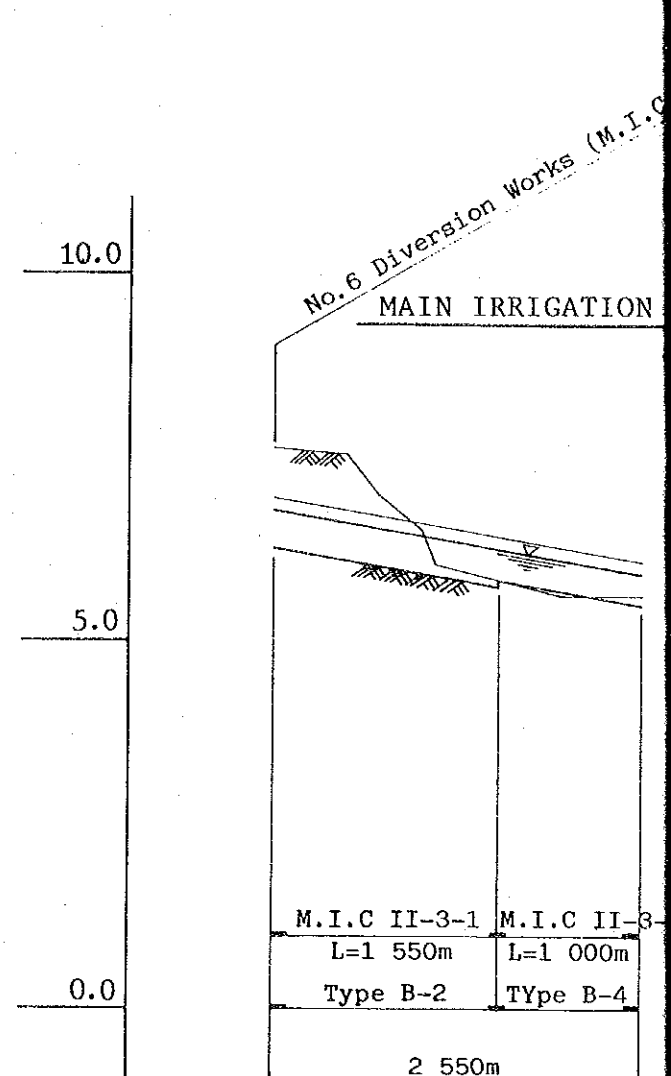
LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (2/4)



SLOPE	I=1/6 000		I=1/1 500							
DESIGN WATER LEVEL	7.23	7.06	6.89	6.74 6.68	6.01	5.34	4.71 4.68	4.01	3.71	3.34 3.24
DESIGN CANAL BED	6.35	6.18	6.01	5.86 (6.12) 6.06	5.39	4.72	4.09 (4.21) 4.18	3.51	3.21 (3.33)	2.96 2.86
GROUND LEVEL	9.60	8.30	7.80	7.60 7.00	6.30	4.80	3.80 3.80	3.00	2.80	2.60 2.60
ACCUMULATED DISTANCE	0	1 000	2 000	2 900 3 000	4 000	5 000	5 950 6 000	7 000	7 450	8 000 8 150
STATION	NO. 0	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	



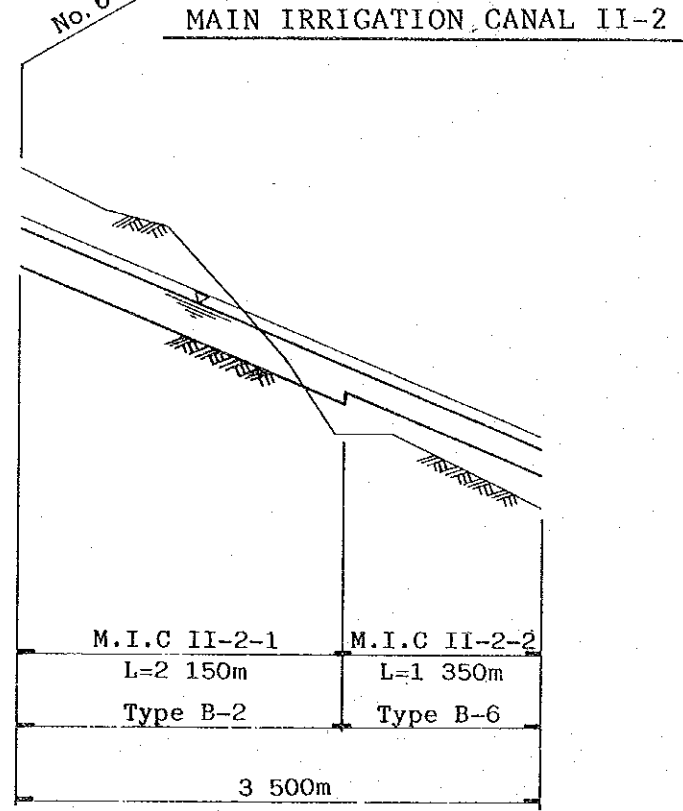
SLOPE	I=1/1 200				
DESIGN WATER LEVEL	6.74	5.91	5.08 4.95	4.24	3.83
DESIGN CANAL BED	6.23	5.40	4.57 4.44 (4.61)	3.90	3.49
GROUND LEVEL	7.60	6.80	4.30 4.00	3.50	3.00
ACCUMULATED DISTANCE	0	1 000	2 000 2 150	3 000	3 500
STATION	NO. 0	NO. 1	NO. 2	NO. 3	



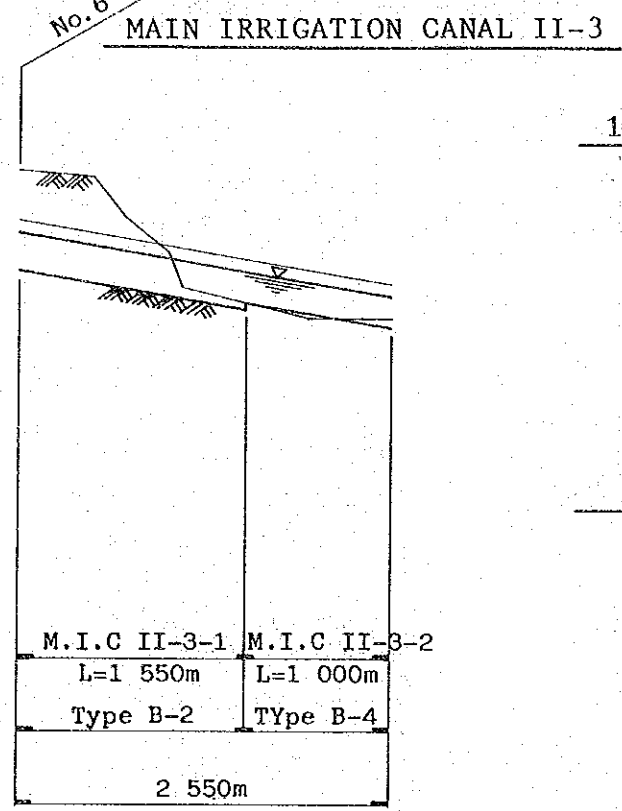
SLOPE	I=1/3 000				
DESIGN WATER LEVEL	6.74	6.41	6.23 6.08	5.89	
DESIGN CANAL BED	6.21	5.88	6.70 (5.75)	5.60	5.41
GROUND LEVEL	7.60	6.50	5.80	5.60	5.60
ACCUMULATED DISTANCE	0	1 000	1 550 2 000	2 550	
STATION	NO. 0	NO. 1	NO. 2		

LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (2/4)

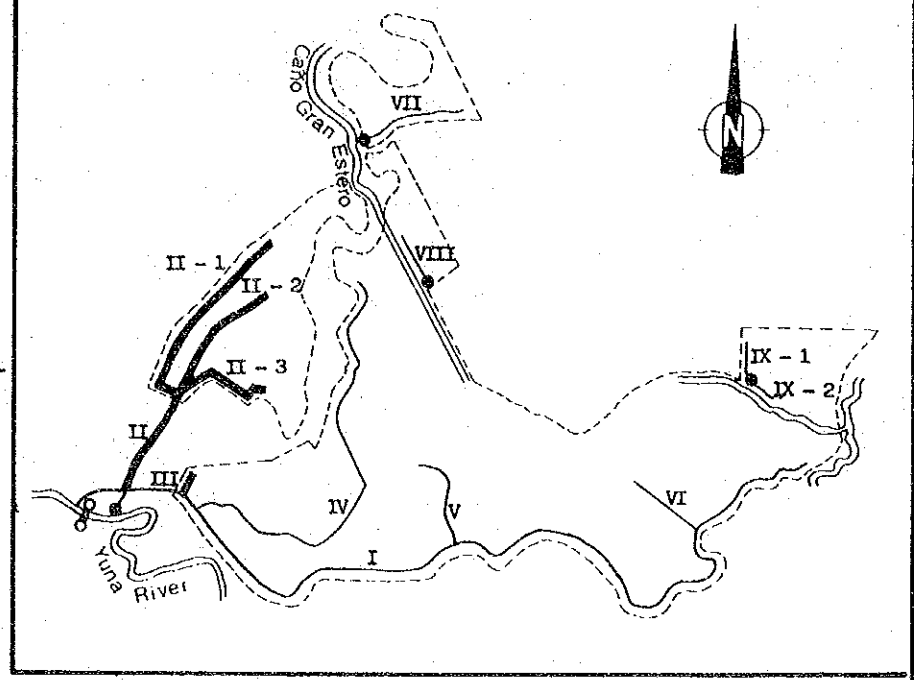
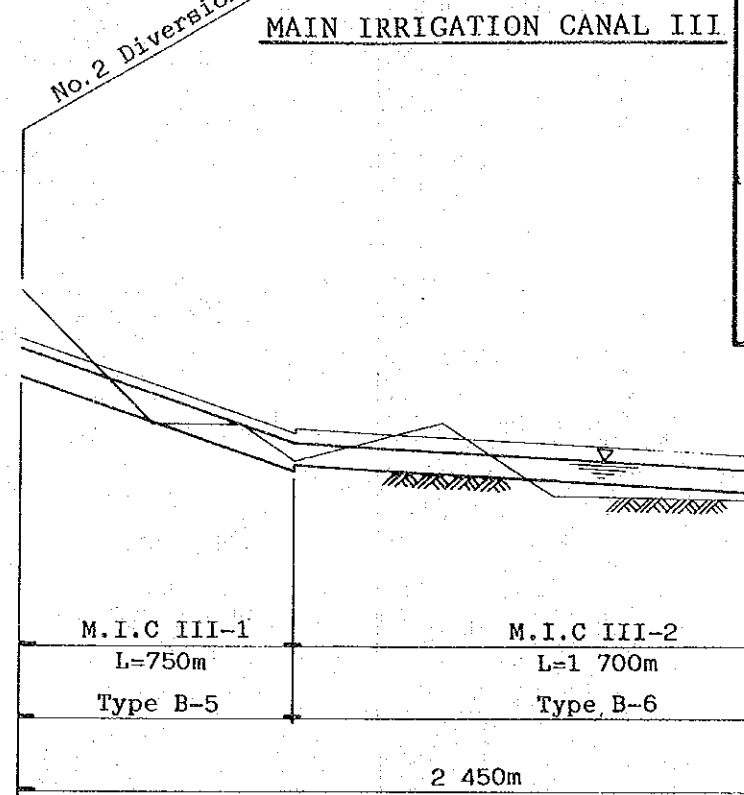
No. 6 Diversion Works (M.I.C II-1, II-3)



No. 6 Diversion Works (M.I.C II-1, II-2)



No. 2 Diversion Works (M.I.C I)



	I=1/1 200			
	6.74	5.91	5.08 4.95	4.24 3.83
	6.23	5.40	4.57 4.44 (4.61)	3.90 3.49
	7.60	6.80	4.30 4.00	3.50 3.00
	0	1 000	2 000 2 150	3 000 3 500
NO. 0	NO. 1	NO. 2	NO. 3	

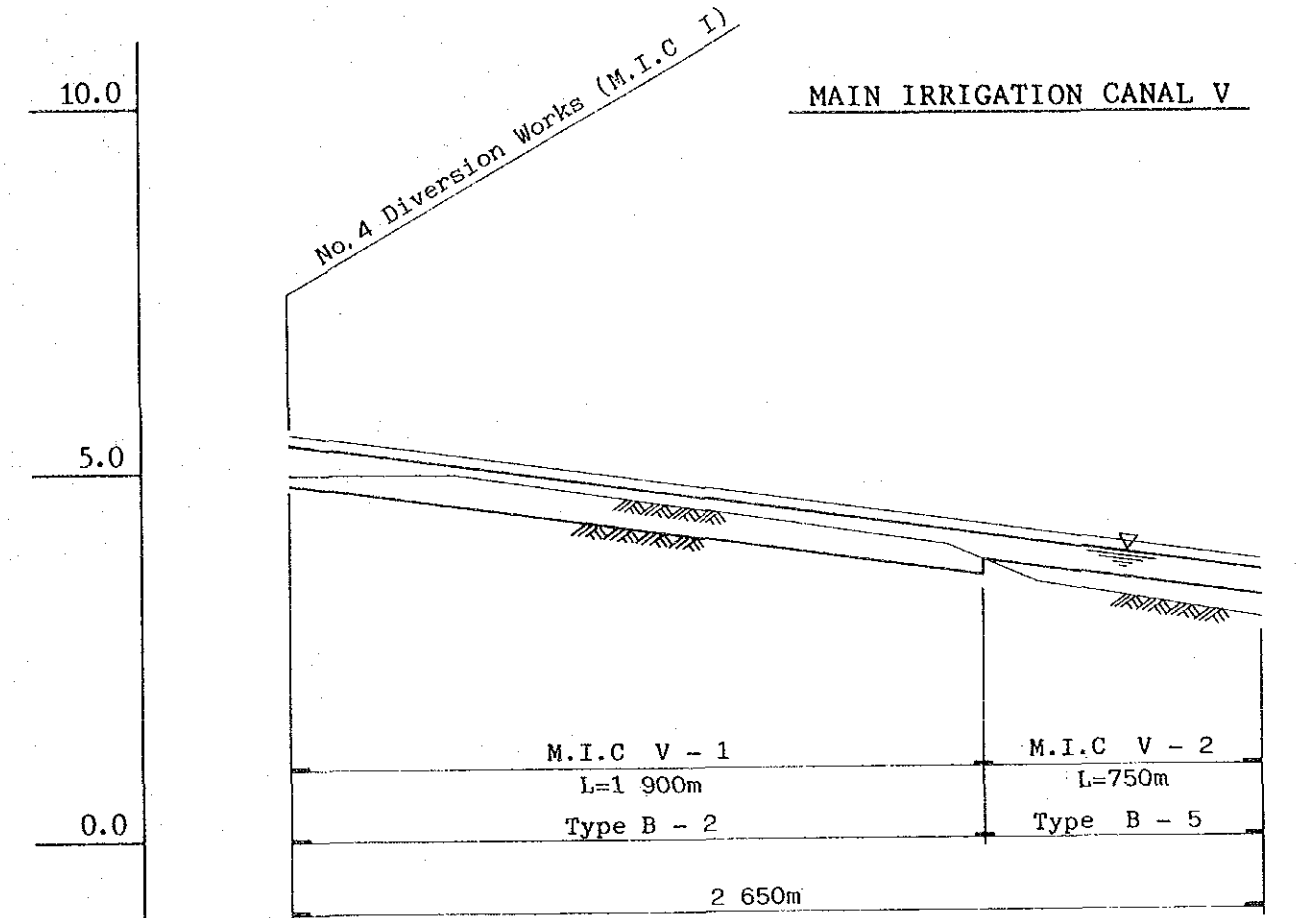
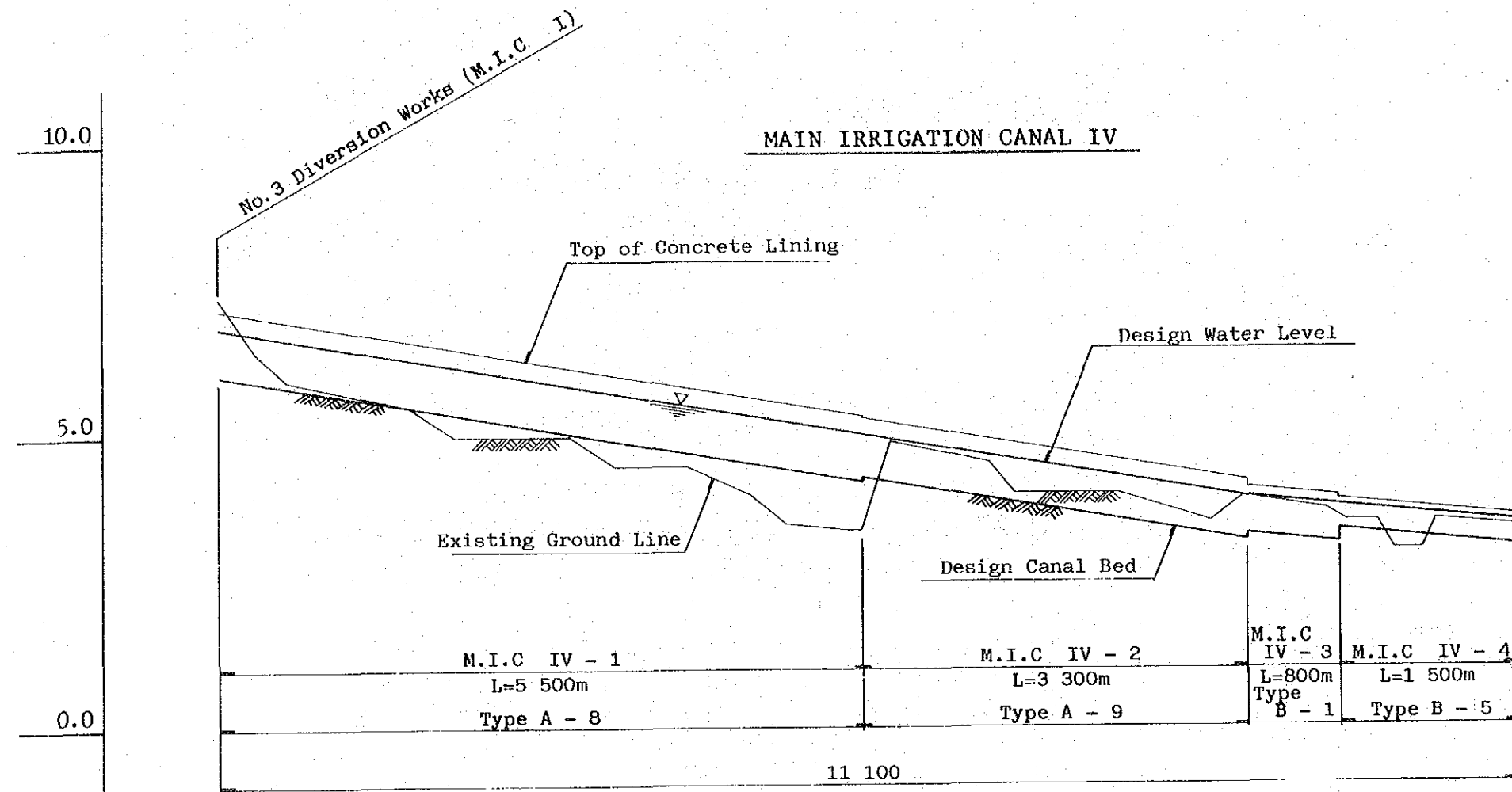
	I=1/3 000			
	6.74	6.41	6.23 6.08	5.89
	6.21	5.88	6.70 (5.75)	5.60 5.41
	7.60	6.50	5.80 5.60	5.60
	0	1 000	1 550 2 000	2 550
NO. 0	NO. 1	NO. 2		

	I=1/600		I=1/3 000	
	7.07	5.77	5.68	5.20
	6.70	5.40 (5.45)	5.36	4.88
	7.80	5.50	5.80	4.90
	0	750	1 000	2 450
NO. 0	NO. 1	NO. 2		

Note :
M.I.C - Main Irrigation Canal

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LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (2/4)	
AUGUST, 1986	No.2
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

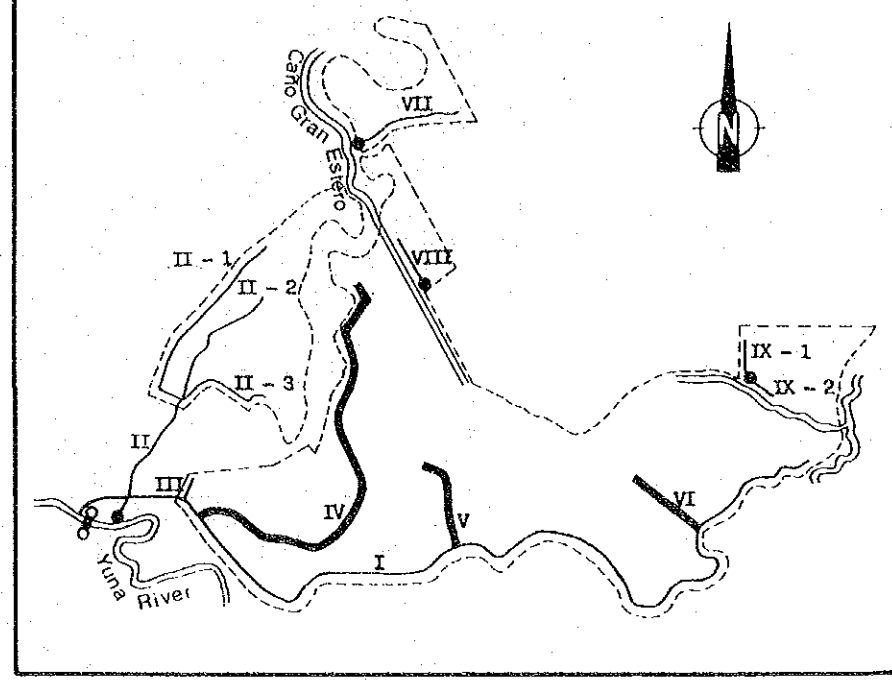
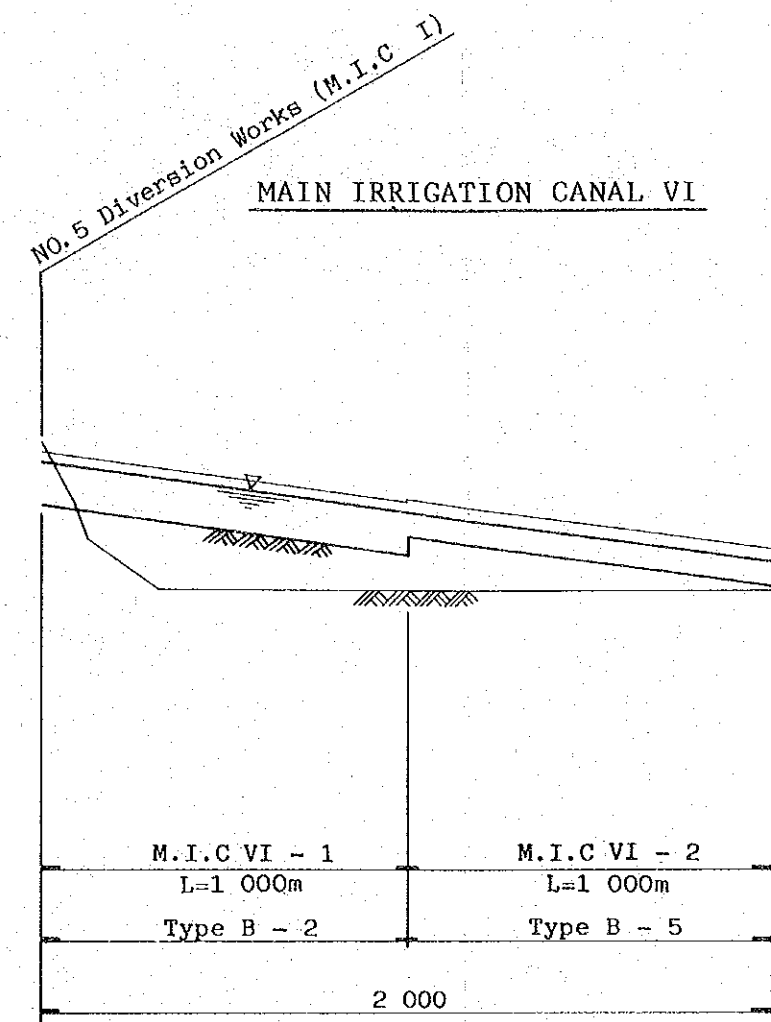
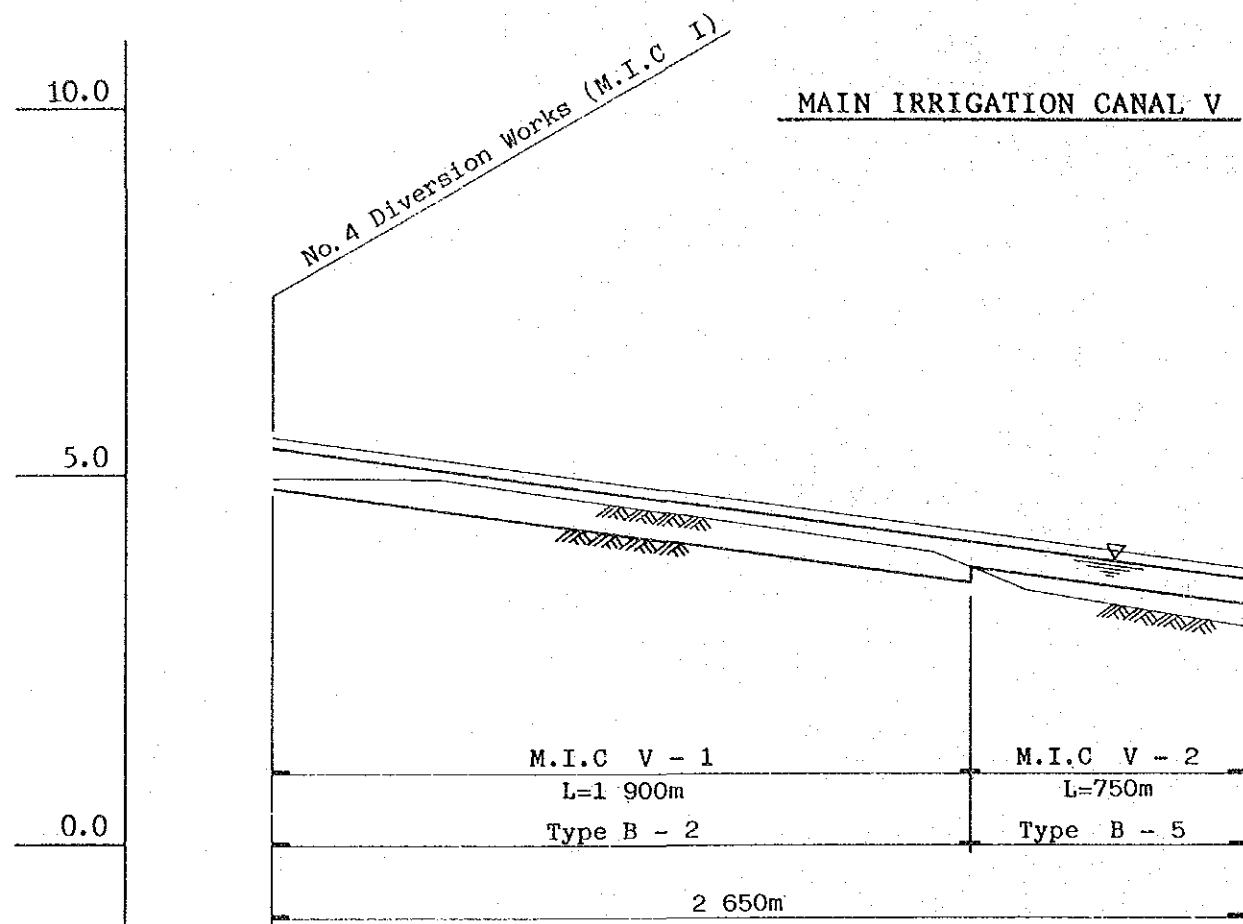
LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (3/4)



SLOPE	I=1/3 000											I=1/5 000				
DESIGN WATER LEVEL	6.88	6.55	6.22	5.88	5.55	5.22	5.05	4.88	4.55	4.22	3.95	3.91	3.79	3.71	3.51	3.49
DESIGN CANAL BED	6.07	5.74	5.41	5.07	4.74	4.41	4.24 (4.31)	4.14	3.81	3.48	3.21 (3.28)	3.24	3.12	3.04	2.84	2.82
GROUND LEVEL	7.40	5.80	5.00	5.00	4.50	3.45	3.40	4.80	4.00	3.80	3.90	3.80	3.50	3.00	3.40	3.30
ACCUMULATED DISTANCE	0	1 000	2 000	3 000	4 000	5 000	5 500	6 000	7 000	8 000	8 800	9 000	9 600	10 000	11 000	11 100
STATION	NO. 0	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15

SLOPE	I=1/1 500															
DESIGN WATER LEVEL	5.44	4.77	4.17	4.11	3.67											
DESIGN CANAL BED	4.87	4.20	3.60 (3.81)	3.75	3.31											
GROUND LEVEL	5.00	4.60	3.80	3.60	3.00											
ACCUMULATED DISTANCE	0	1 000	1 900	2 000	2 650											
STATION	NO. 0	NO. 1	NO. 2	NO. 3	NO. 4											

LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (3/4)



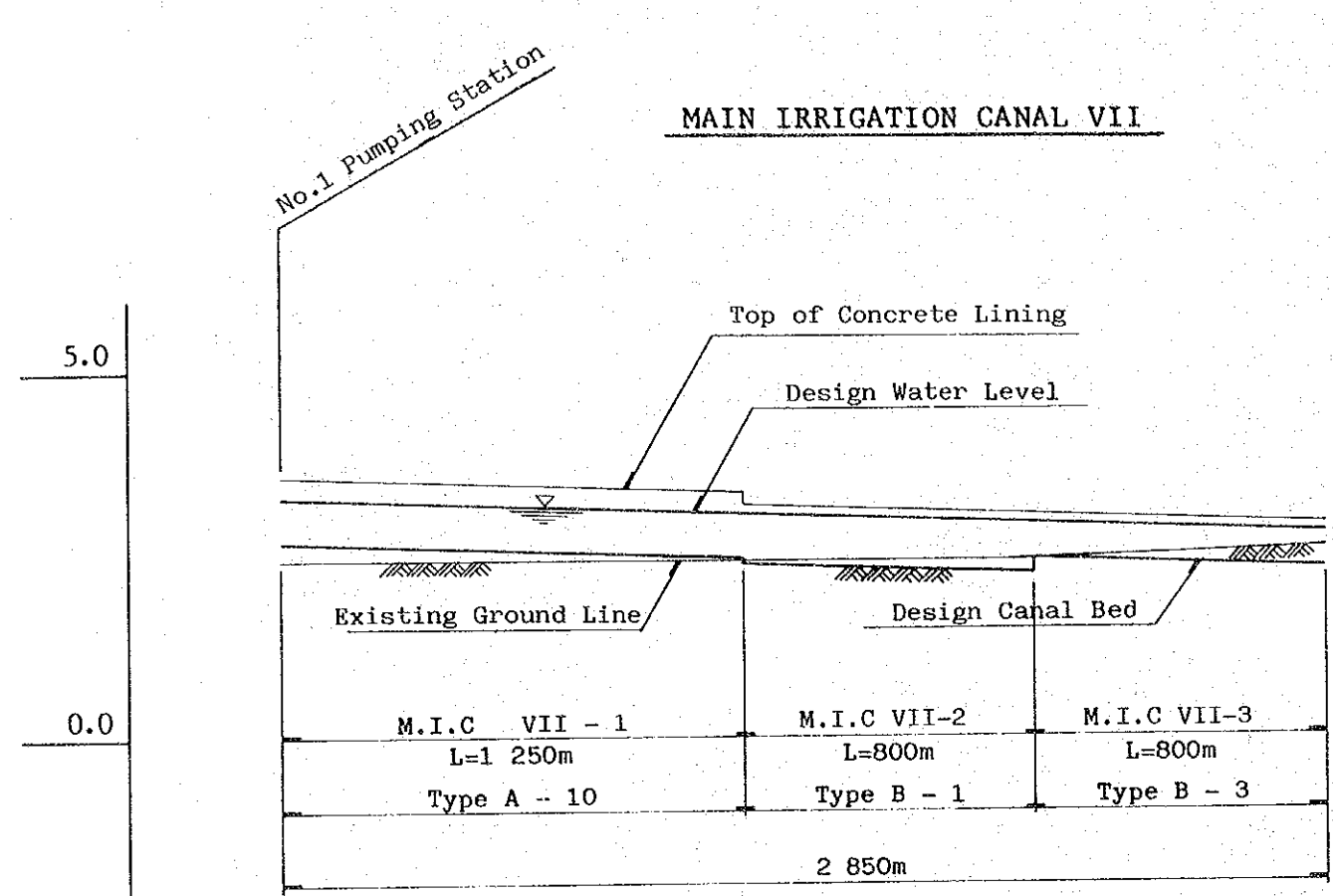
V - 4	3.51	3.49
0m	2.84	2.82
- 5	3.40	3.30
	11 000	11 100
NO. 11		

	I=1/1 500			
	5.44	4.77	4.17	3.67
	4.87	4.20	3.60 (3.81)	3.31
	5.00	4.60	3.80	3.00
	0	1 000	1 900	2 650
NO. 0		NO. 1	NO. 2	

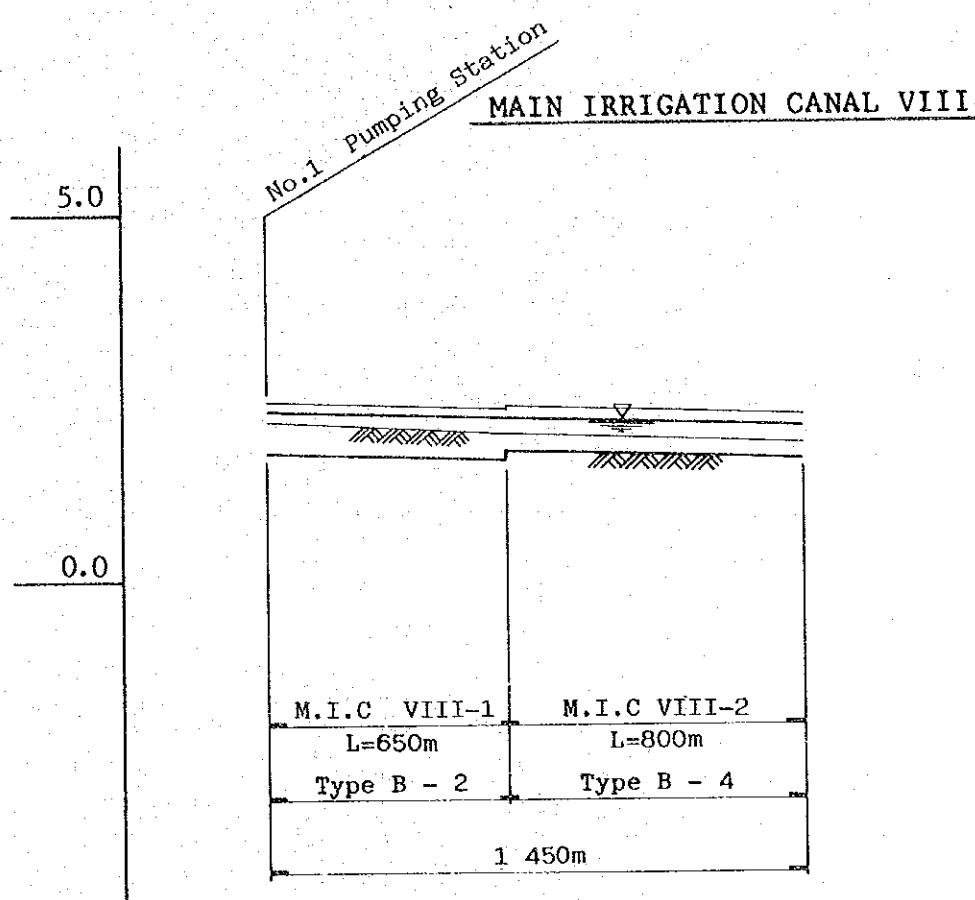
	I=1/1 500		
	3.54	2.87	2.21
	2.96	2.29 (2.54)	1.88
	3.80	1.80	1.80
	0	1 000	2 000
NO. 0		NO. 1	NO. 2

Note : M.I.C - Main Irrigation Canal

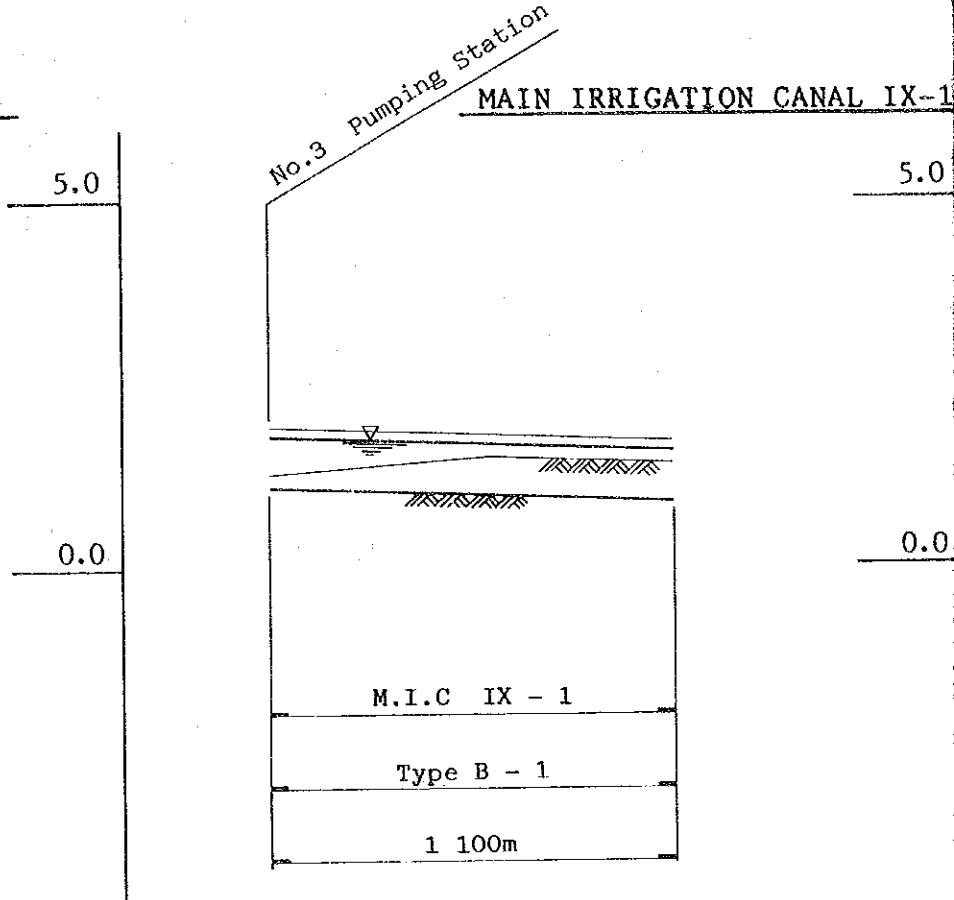
LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (4/4)



SLOPE	I=1/6 000				
DESIGN WATER LEVEL	3.30	3.13	3.09	2.97 2.96	2.83
DESIGN CANAL BED	2.68	2.51	2.47 (2.39)	2.27 2.26 (2.46)	2.33
GROUND LEVEL	2.40	2.40	2.40	2.40 2.40	2.60
ACCUMULATED DISTANCE	0	1 000	1 250	2 000 2 050	2 850
STATION	NO.0	NO.1		NO.2	



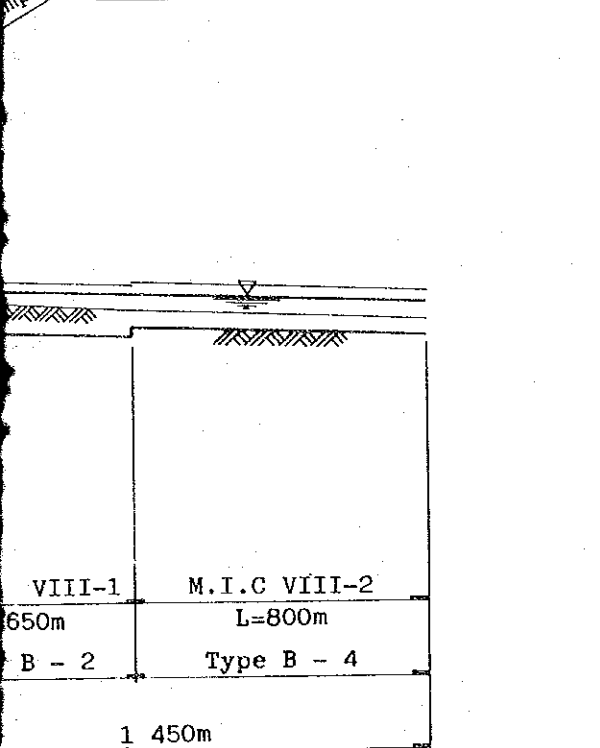
SLOPE	I=1/6 000			
DESIGN WATER LEVEL	2.30	2.19	2.13	2.06
DESIGN CANAL BED	1.71	1.60 (1.73)	1.67	1.60
GROUND LEVEL	2.20	2.00	1.90	1.80
ACCUMULATED DISTANCE	0	650	1 000	1 450
STATION	NO.0		NO.1	



SLOPE	I=1/6 000	
DESIGN WATER LEVEL	1.80	1.63 1.62
DESIGN CANAL BED	1.09	0.92 0.91
GROUND LEVEL	1.30	1.40 1.40
ACCUMULATED DISTANCE	0	1 000 1 100
STATION	NO.0	NO.1

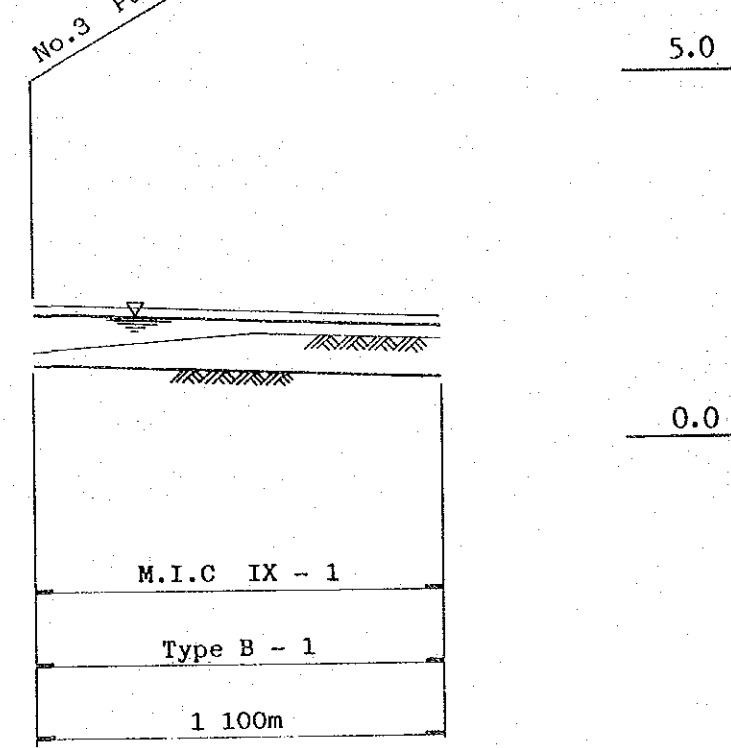
LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (4/4)

Pumping Station
MAIN IRRIGATION CANAL VIII



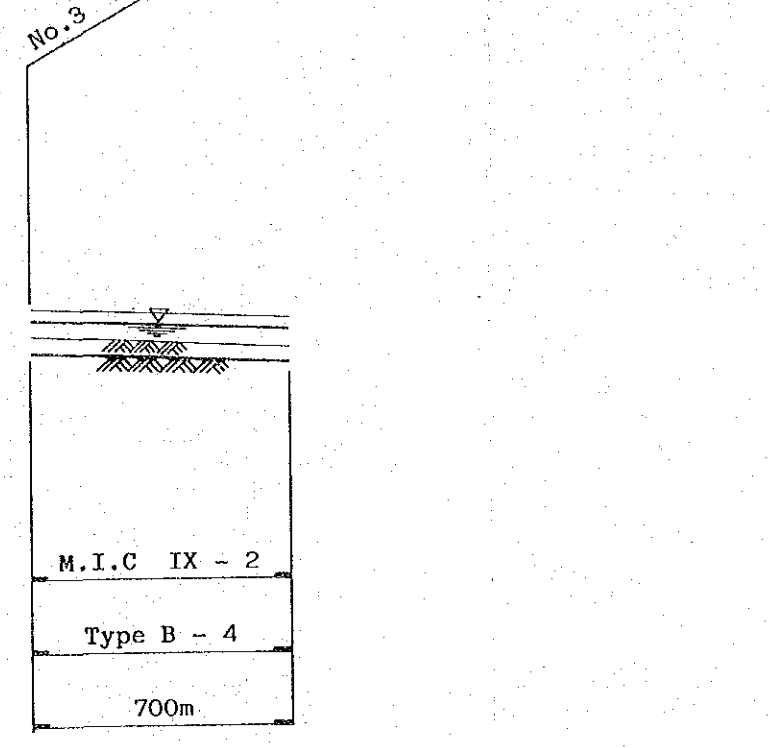
I=1/6 000		
2.19	2.13	2.06
1.60 (1.73)	1.67	1.60
2.00	1.90	1.80
650	1 000	1 450
NO.1		

No.3 Pumping Station
MAIN IRRIGATION CANAL IX-1

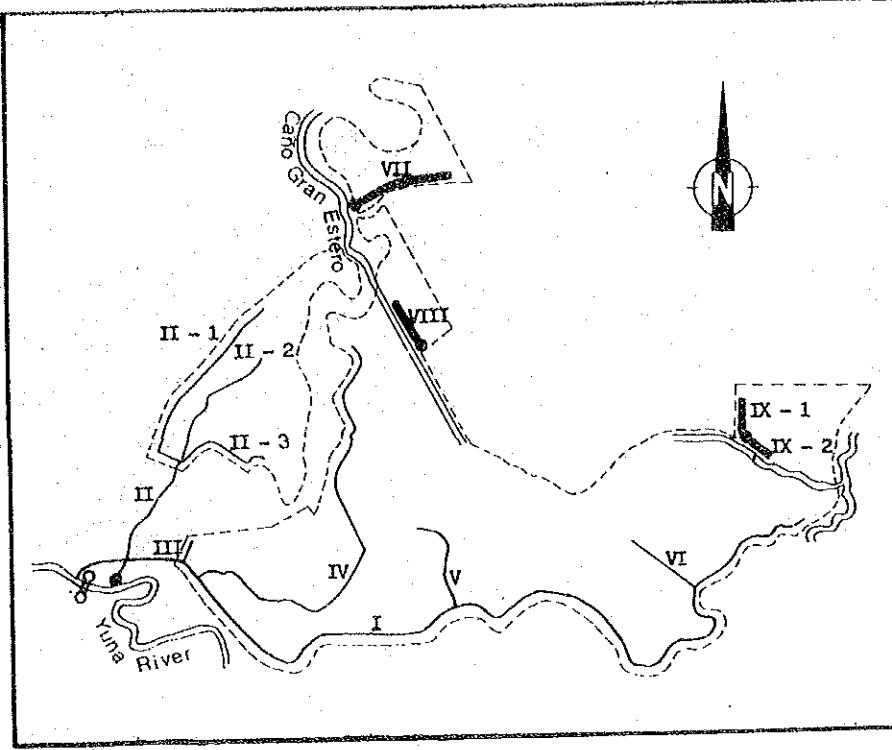


I=1/6 000		
1.80		1.63 1.62
1.09		0.92 0.91
1.30		1.40 1.40
0	1 000	1 100
NO.0	NO.1	

No.3 Pumping Station
MAIN IRRIGATION CANAL IX-2



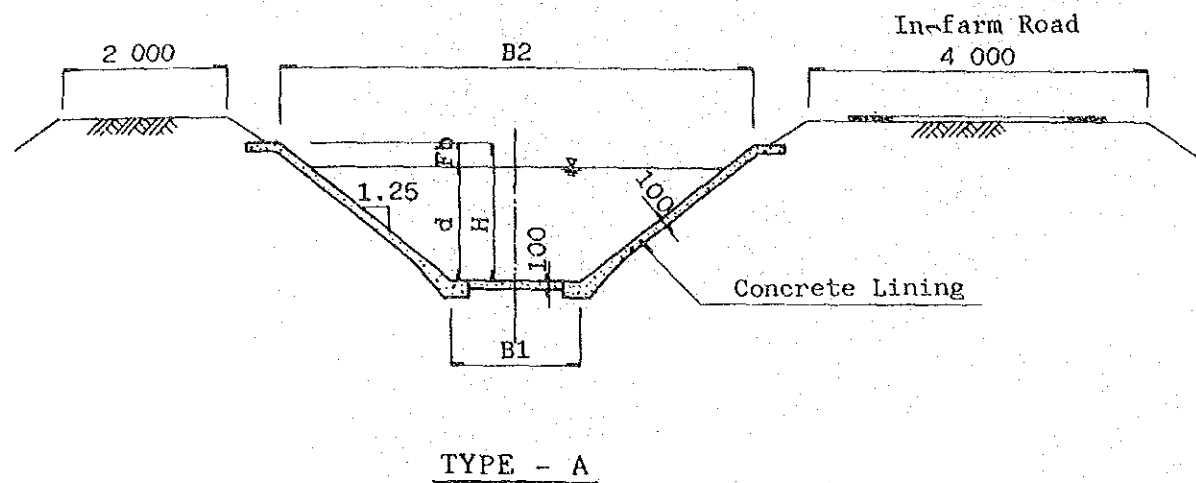
I=1/1 500		
1.50		1.38
1.04		0.92
1.30		1.10
0	0	700
NO.0	NO.1	



Note : M.I.C - Main Irrigation Canal

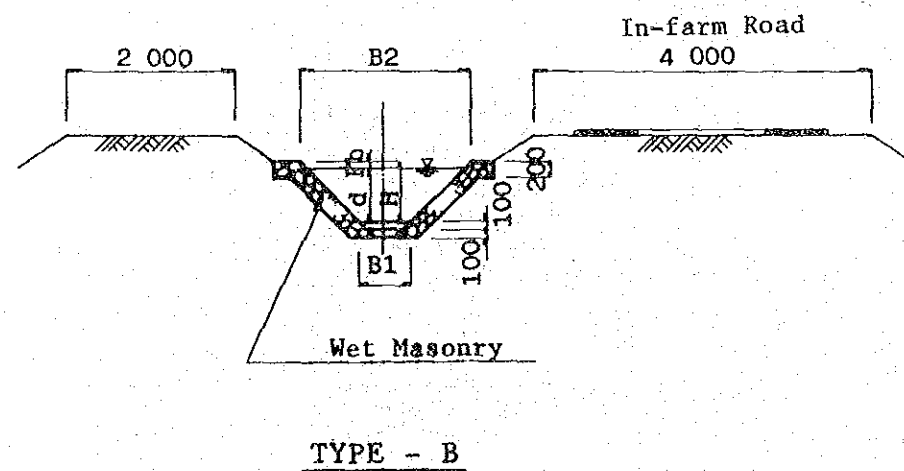
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LONGITUDINAL PROFILE OF MAIN IRRIGATION CANAL (4/4)	
AUGUST, 1986	No.4
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

TYPICAL CROSS SECTION OF MAIN IRRIGATION CANAL



DIMENSION OF TYPE - A

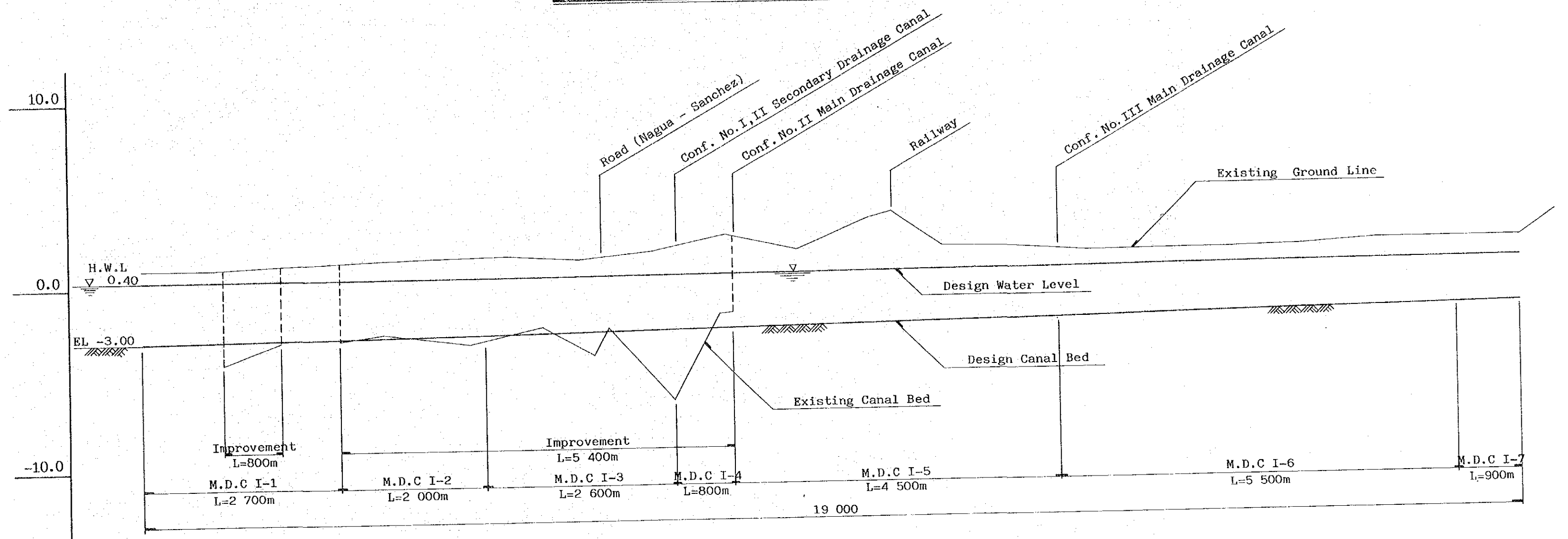
Canal	B1	B2	d	Fb	H	Type
I - 1	1 800	6 550	1 619	281	1 900	A - 2
- 2	1 800	6 550	1 581	319	1 900	A - 2
- 3	1 600	5 850	1 406	294	1 700	A - 3
- 4	1 500	5 500	1 334	266	1 600	A - 4
- 5	1 400	5 150	1 178	322	1 500	A - 5
- 6	1 000	4 250	1 074	226	1 300	A - 6
- 7	1 000	4 250	986	314	1 300	A - 6
- 8	800	3 300	788	212	1 000	A - 9
- 9	800	2 800	600	200	800	A - 11
II	1 000	3 750	884	216	1 100	A - 7
IV - 1	800	3 550	813	287	1 100	A - 8
- 2	800	3 300	742	258	1 000	A - 9
VII - 1	800	3 050	622	278	900	A - 10



DIMENSION OF TYPE - B

Canal	B1	B2	d	Fb	H	Type
I - 10	600	2 000	622	78	700	B - 2
I - 11	500	1 700	458	142	600	B - 4
II - 1 - 1	600	2 200	622	178	800	B - 1
- 1 - 2	600	1 800	502	98	600	B - 3
- 1 - 3	500	1 500	376	124	500	B - 5
II - 2 - 1	600	2 000	512	188	700	B - 2
- 2 - 2	400	1 400	344	156	500	B - 6
II - 3 - 1	600	2 000	534	166	700	B - 2
- 3 - 2	500	1 700	478	122	500	B - 4
III - 1	500	1 500	370	130	600	B - 5
III - 2	500	1 700	448	152	600	B - 4
IV - 3	600	2 200	666	134	800	B - 1
- 4	500	1 500	416	84	500	B - 5
V - 1	600	2 000	573	127	700	B - 2
- 2	500	1 500	363	137	500	B - 5
VI - 1	600	2 000	580	120	700	B - 2
- 2	500	1 500	334	166	500	B - 5
VII - 2	600	2 200	697	103	800	B - 1
- 3	600	1 800	501	99	600	B - 3
VIII - 1	600	2 000	594	106	700	B - 2
- 2	500	1 700	457	143	600	B - 4
IX - 1	600	2 200	708	92	800	B - 1
- 2	500	1 700	457	143	600	B - 4

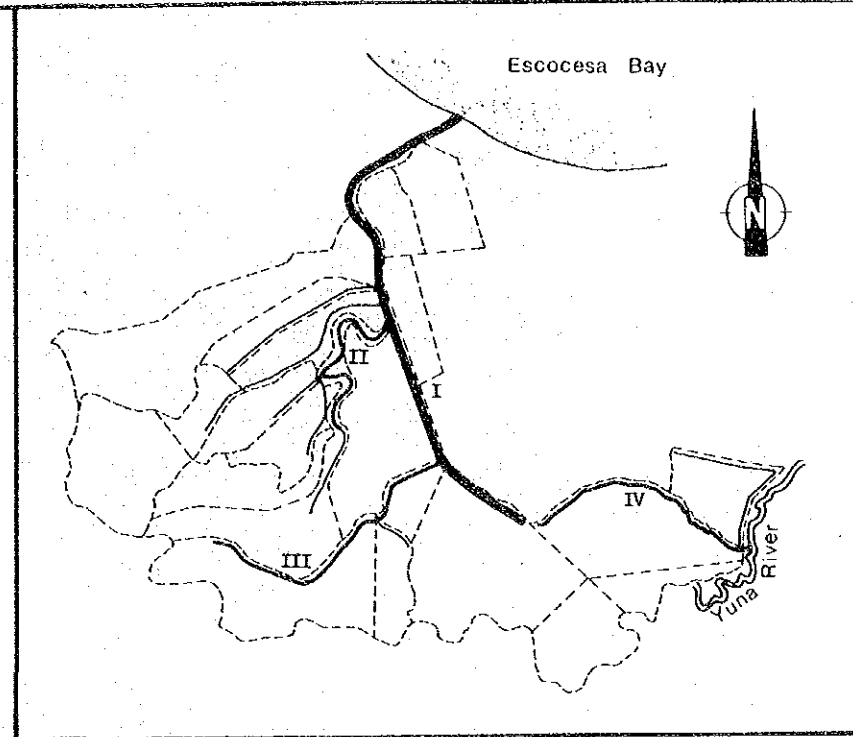
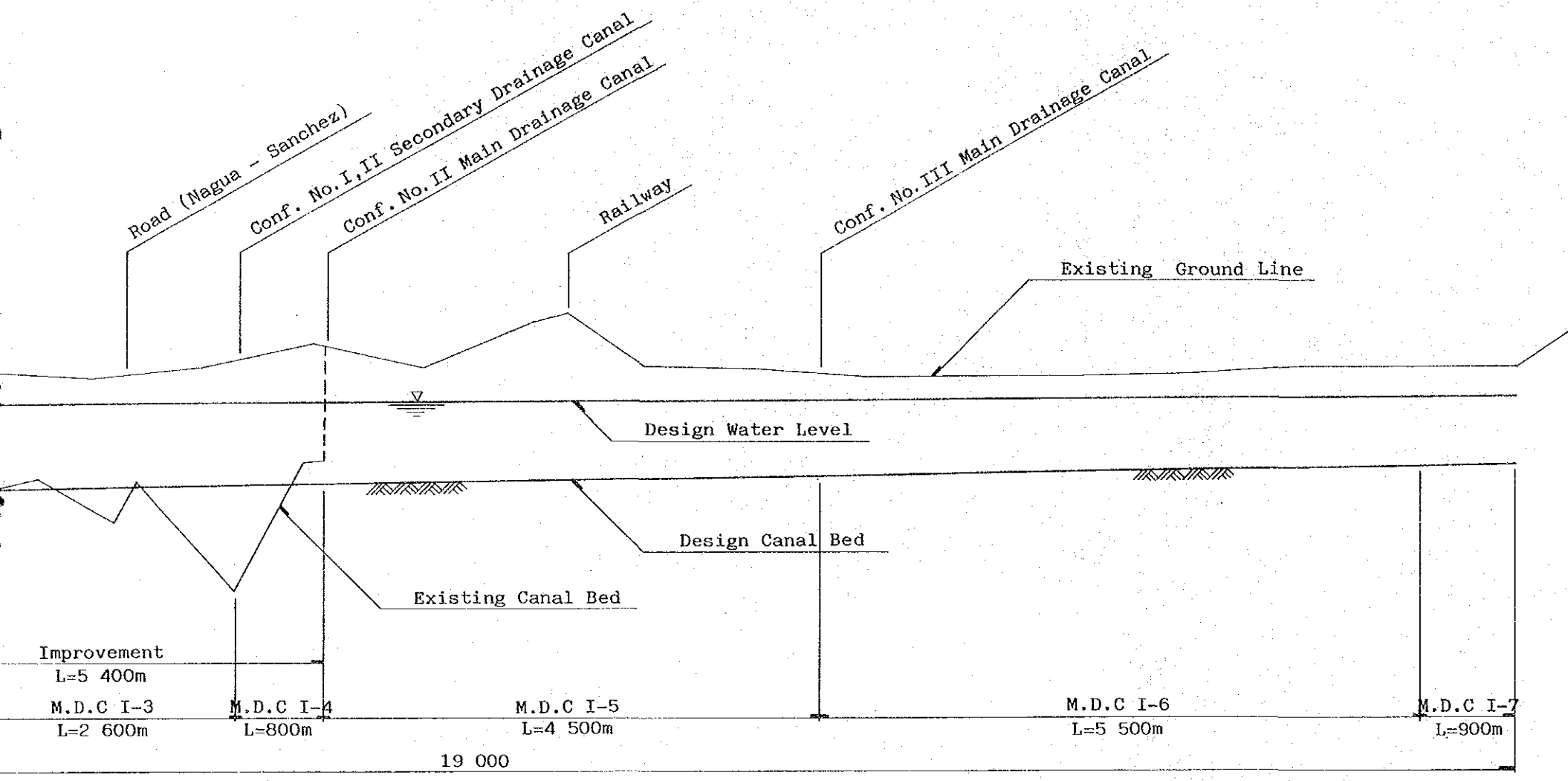
LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL I



STATION	ACCUMULATED DISTANCE	GROUND LEVEL	DESIGN CANAL BED	DESIGN WATER LEVEL	SLOPE
NO.0	0	1.00	-3.00	0.40	
NO.1	1 000	1.00 (-4.20)	-2.93	0.47	
NO.2	2 000	1.20 (-3.00)	-2.87	0.53	
NO.3	2 700	1.30 (-2.90)	-2.82	0.58	
NO.3	3 000	1.40 (-2.80)	-2.80	0.60	
NO.4	4 000	1.50 (-3.00)	-2.73	0.67	
NO.5	4 700	1.60 (-3.00)	-2.69	0.71	
NO.5	5 000	1.60	-2.67	0.73	
NO.6	6 000	1.40 (-3.50)	-2.60	0.80	
NO.6	6 300	1.50 (-2.40)	-2.58	0.82	
NO.7	7 000	1.80 (-5.00)	-2.53	0.87	
NO.7	7 300	2.00 (-6.40)	-2.51	0.89	
NO.8	8 000	2.60 (-1.70)	-2.47	0.93	
NO.8	8 100	2.60 (-1.60)	-2.46	0.96	
NO.9	9 000	1.80	-2.40	1.00	
NO.10	10 000	3.50	-2.33	1.07	
NO.10	10 300	3.80	-2.31	1.09	
NO.11	11 000	1.90	-2.26	1.14	
NO.12	12 000	1.80	-2.20	1.20	
NO.12	12 600	1.60	-2.16	1.24	
NO.13	13 000	1.50	-2.13	1.27	
NO.14	14 000	1.50	-2.07	1.33	
NO.15	15 000	1.50	-2.00	1.40	
NO.16	16 000	1.60	-1.93	1.47	
NO.17	17 000	1.80	-1.87	1.53	
NO.18	18 000	1.80	-1.80	1.60	
NO.18	18 100	1.80	-1.79	1.61	
NO.19	19 000	1.80	-1.73	1.67	

I=1/15 000

LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL I



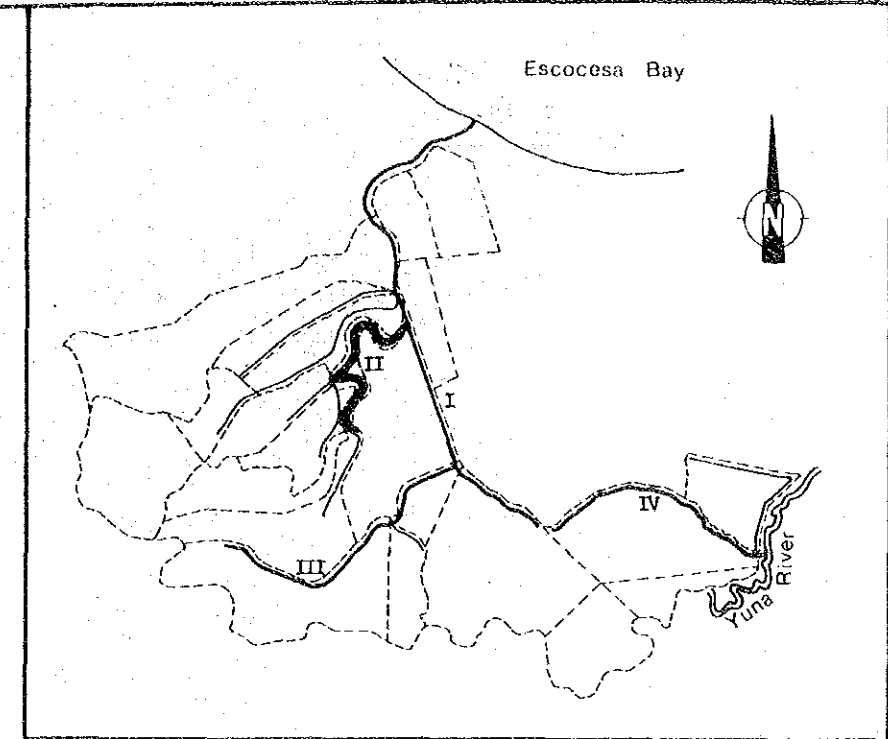
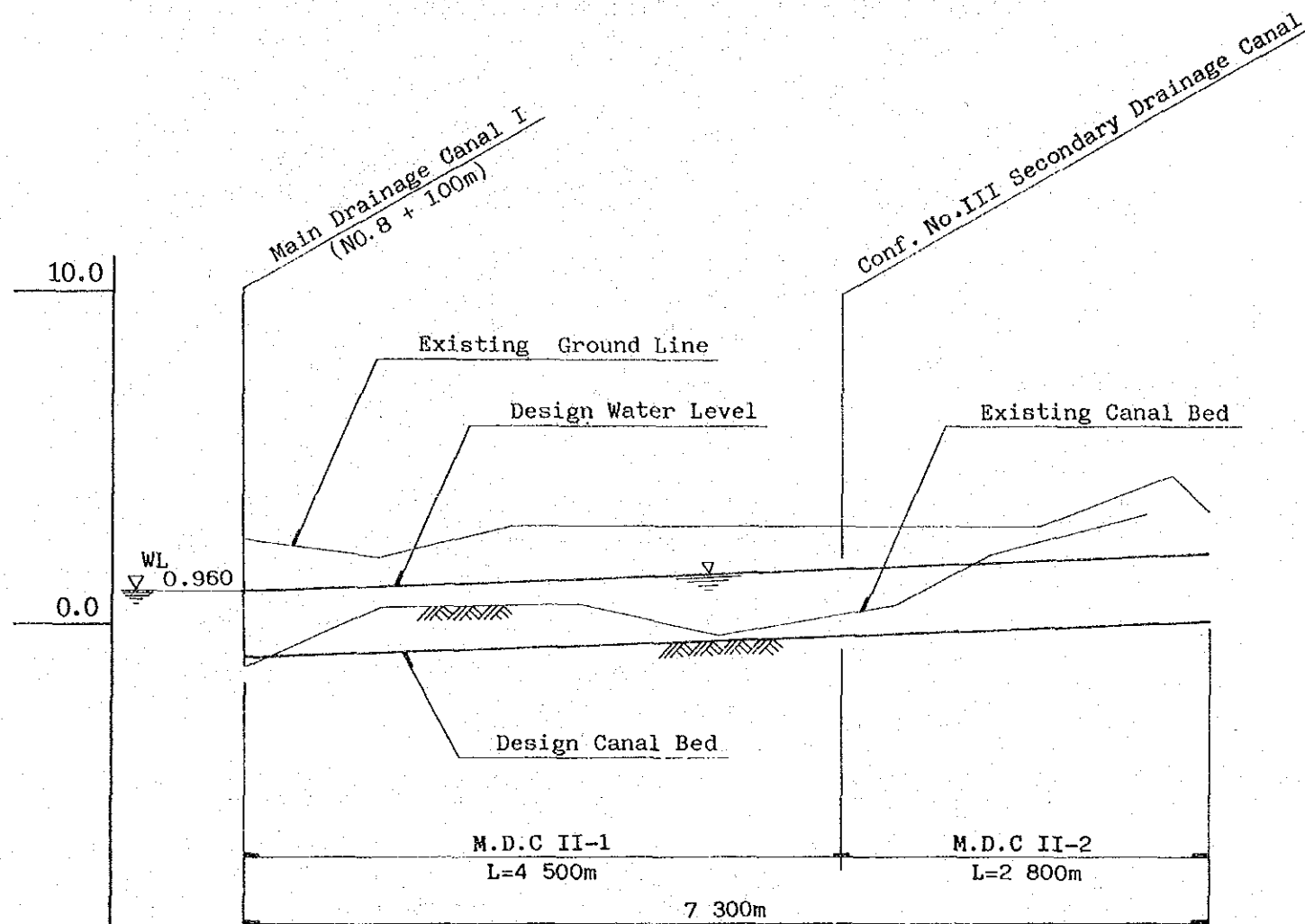
I=1/15 000

NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19
6 000	7 000	8 000	9 000	10 000	11 000	12 000	13 000	14 000	15 000	16 000	17 000	18 000	19 000
1.40 (-3.50)	1.80 (-5.00)	2.60 (-1.70)	1.80	3.50	1.90	1.80	1.50	1.50	1.50	1.60	1.80	1.80	1.80
0.80	0.87	0.93	1.00	1.07	1.14	1.20	1.27	1.33	1.40	1.47	1.53	1.60	1.67
-2.60	-2.53	-2.47	-2.40	-2.33	-2.26	-2.20	-2.13	-2.07	-2.00	-1.93	-1.87	-1.80	-1.73
0.82	0.89	0.96		1.09								1.61	
-2.58	-2.51	-2.46		-2.31								-1.79	
6 300	7 300	8 100		10 300								18 100	
1.50 (-2.40)	2.00 (-6.40)	2.60 (-1.60)		3.80								1.80	

Note : M.D.C - Main Drainage Canal

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LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL I	
AUGUST, 1986	No. 6
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL II

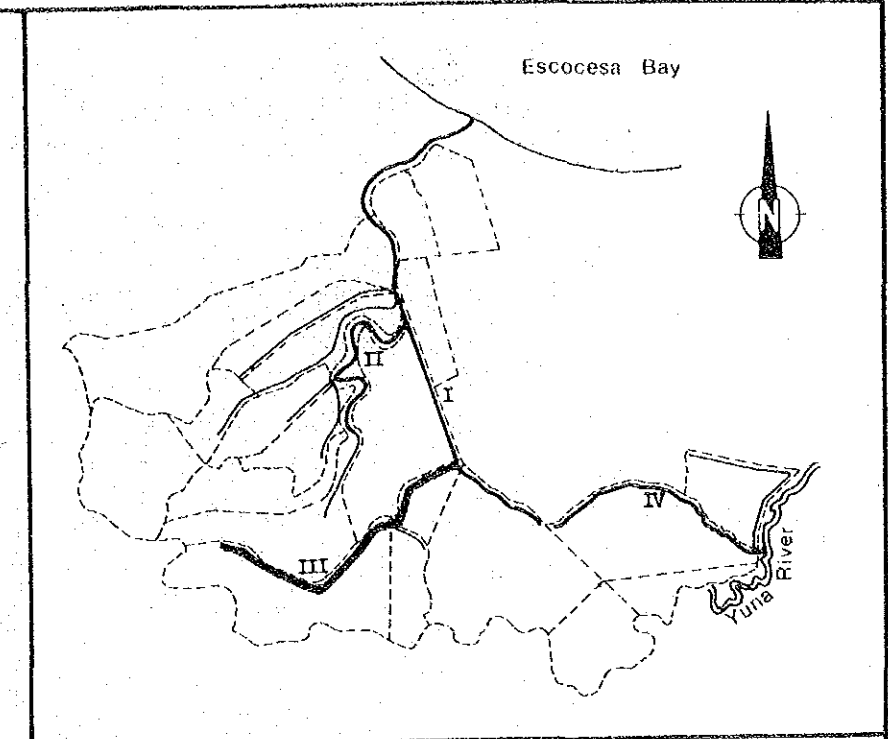
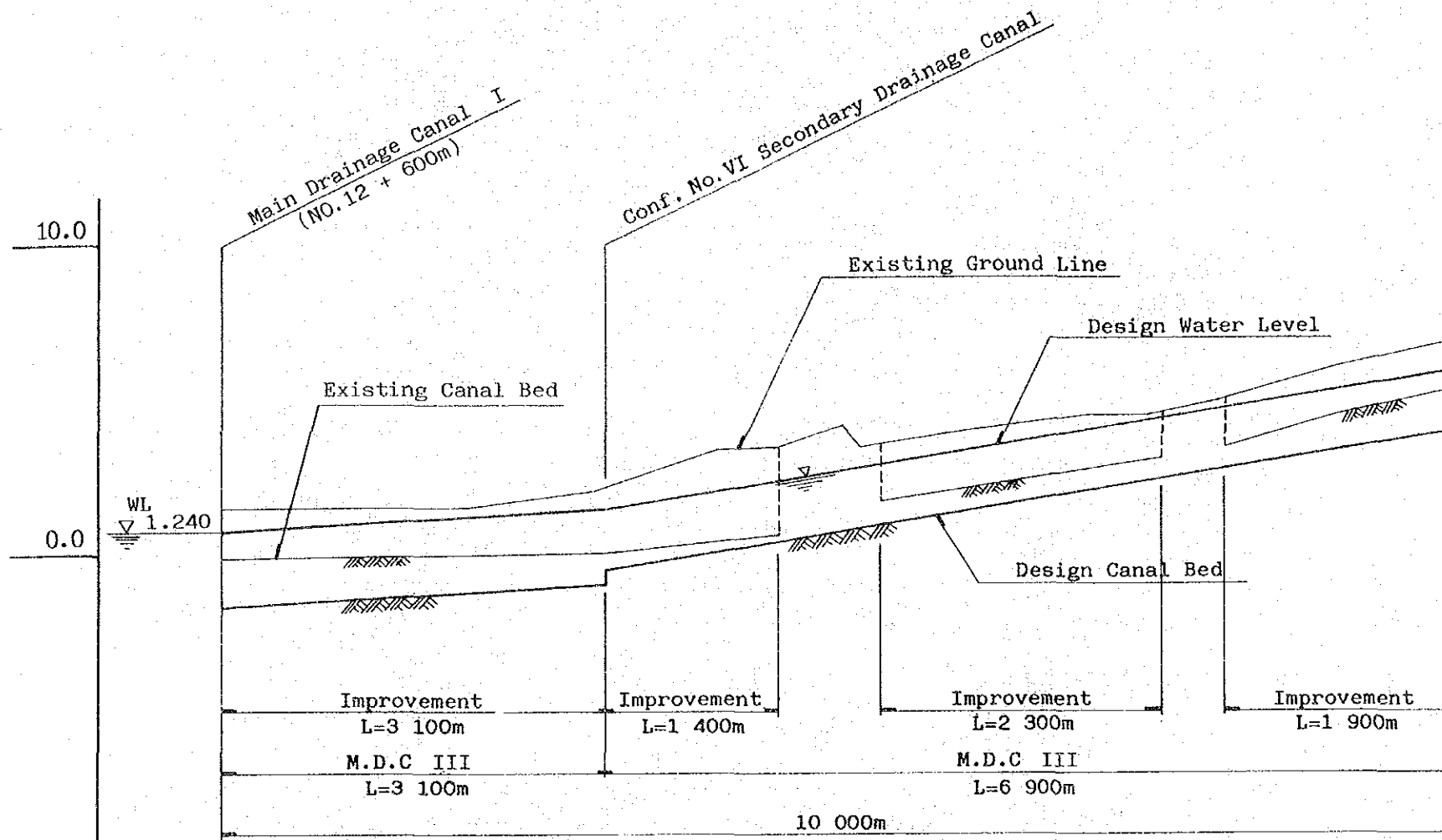


SLOPE	I=1/6 000										
DESIGN WATER LEVEL	0.97	1.14	1.30	1.47	1.64	1.72	1.80	1.97	2.10	2.14	2.19
DESIGN CANAL BED	-2.46 (-1.03)	-0.86	-0.70	-0.53	-0.36	-0.28	-0.20	-0.03	0.10	0.14	0.19
GROUND LEVEL	2.60 (-1.20)	2.00 (0.30)	3.00 (0.70)	3.00 (0.20)	3.00 (0.00)	3.00 (0.50)	3.00 (0.90)	3.00 (2.50)	4.20 (3.30)	4.50 (4.50)	3.40
ACCUMULATED DISTANCE	0	1 000	2 000	3 000	4 000	4 500	5 000	6 000	6 800	7 000	7 300
STATION	NO. 0	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7			

Note : M.D.C - Main Drainage Canal

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LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL II	
AUGUST, 1986	No. 7
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL III

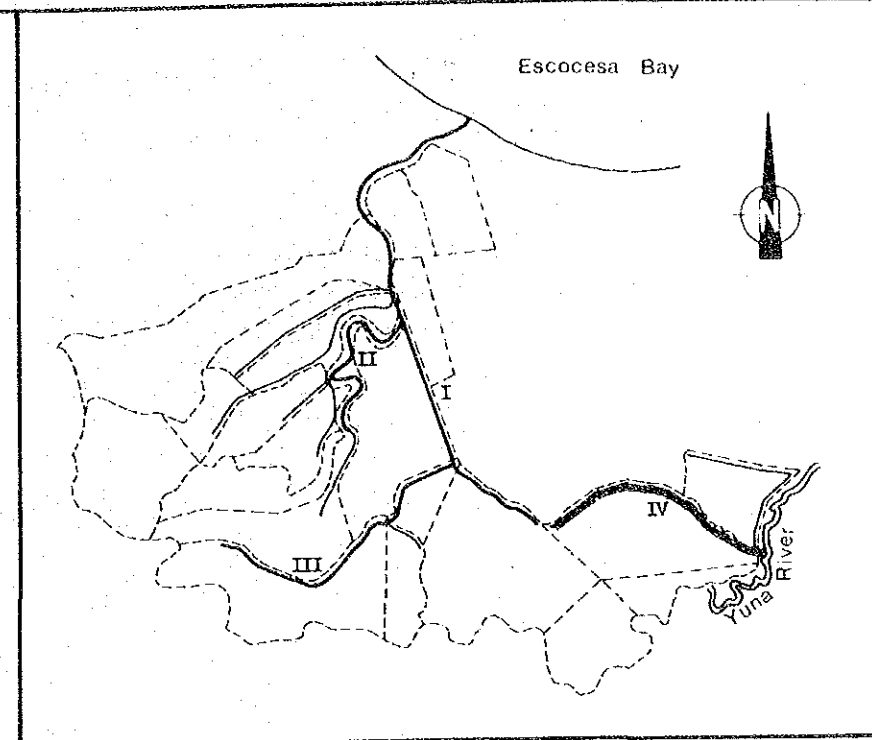
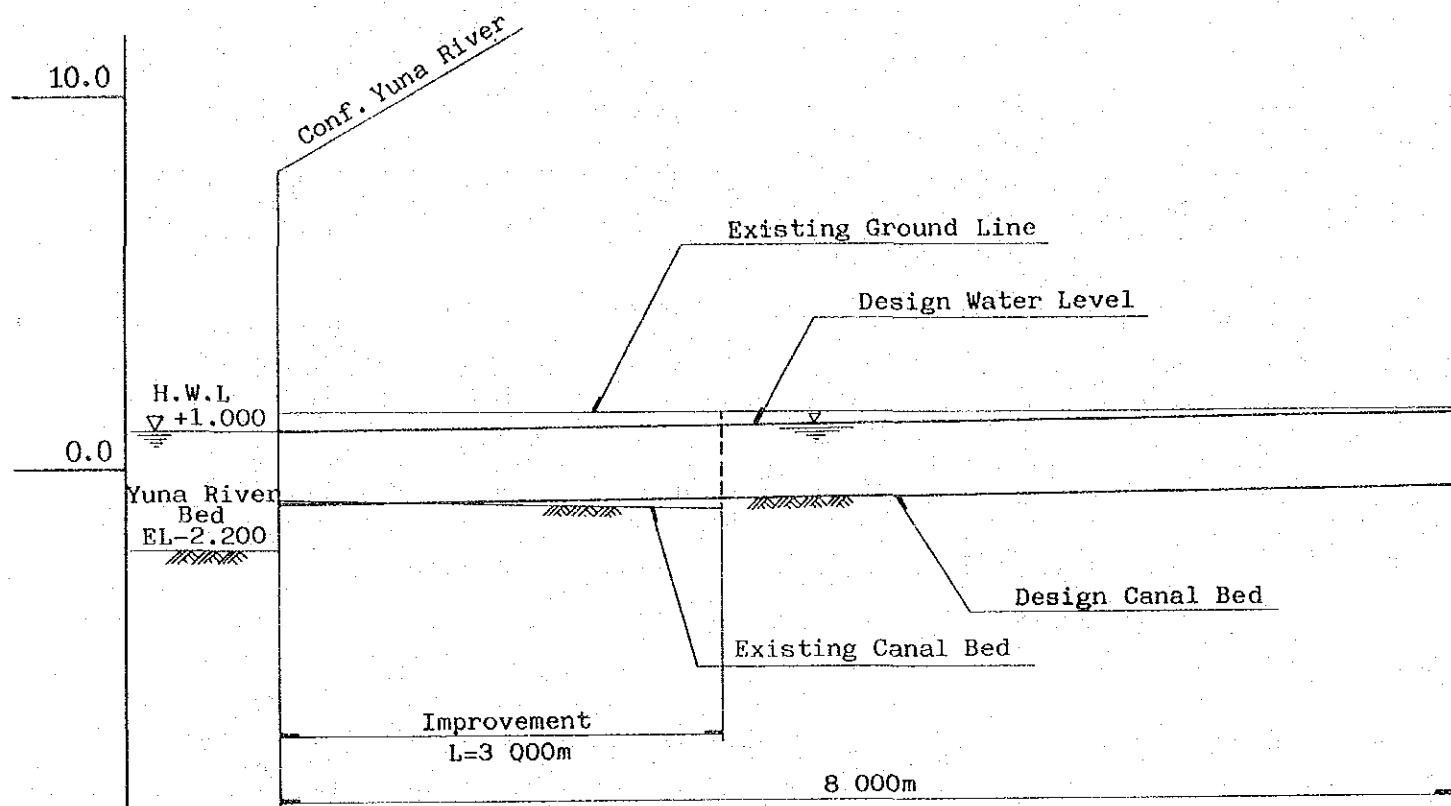


SLOPE	$I=1/15\ 000$			$I=1/1\ 500$												
DESIGN WATER LEVEL	1.28	1.35	1.41	1.49	1.50	1.90	2.43	2.76	2.97	3.43	4.10	4.50	4.77	4.83	5.43	6.10
DESIGN CANAL BED	-1.72	-1.65	-1.59	-1.52	-1.51 (-0.50)	-0.10	0.43	0.76	0.97	1.43	2.10	2.50	2.77	2.83	3.43	4.10
GROUND LEVEL	1.50	1.50	1.50	2.00	2.30	3.40	3.50	4.20	3.50	4.00	4.50	4.50	4.90	5.00	6.10	7.00
ACCUMULATED DISTANCE	0	1 000	2 000	3 000	3 100	4 000	4 500	5 000	5 300	6 000	7 000	7 600	8 000	8 100	9 000	10 000
STATION	NO. 0	NO. 1	NO. 2	NO. 3		NO. 4		NO. 5		NO. 6	NO. 7		NO. 8		NO. 9	NO. 10

Note : M.D.C - Main Drainage Canal

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LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL III	
AUGUST, 1986	No. 8
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

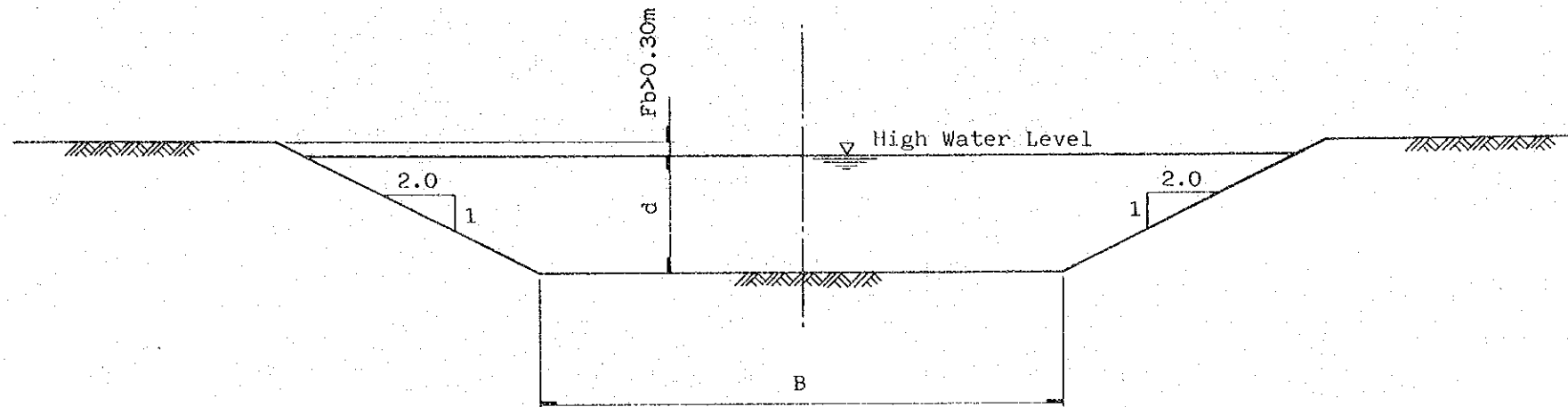
LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL IV



SLOPE	$I=1/20\ 000$								
DESIGN WATER LEVEL	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40
DESIGN CANAL BED	-1.00	-0.95	-0.90	-0.85	-0.80	-0.75	-0.70	-0.65	-0.60
GROUND LEVEL	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
ACCUMULATED DISTANCE	0	1 000	2 000	3 000	4 000	5 000	6 000	7 000	8 000
STATION	NO 0	NO.1	NO.2	NO.3	NO.4	NO.5	NO.6	NO.7	NO 8

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LONGITUDINAL PROFILE OF MAIN DRAINAGE CANAL IV	
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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

TYPICAL CROSS SECTION OF MAIN DRAINAGE CANAL



TYPICAL SECTION

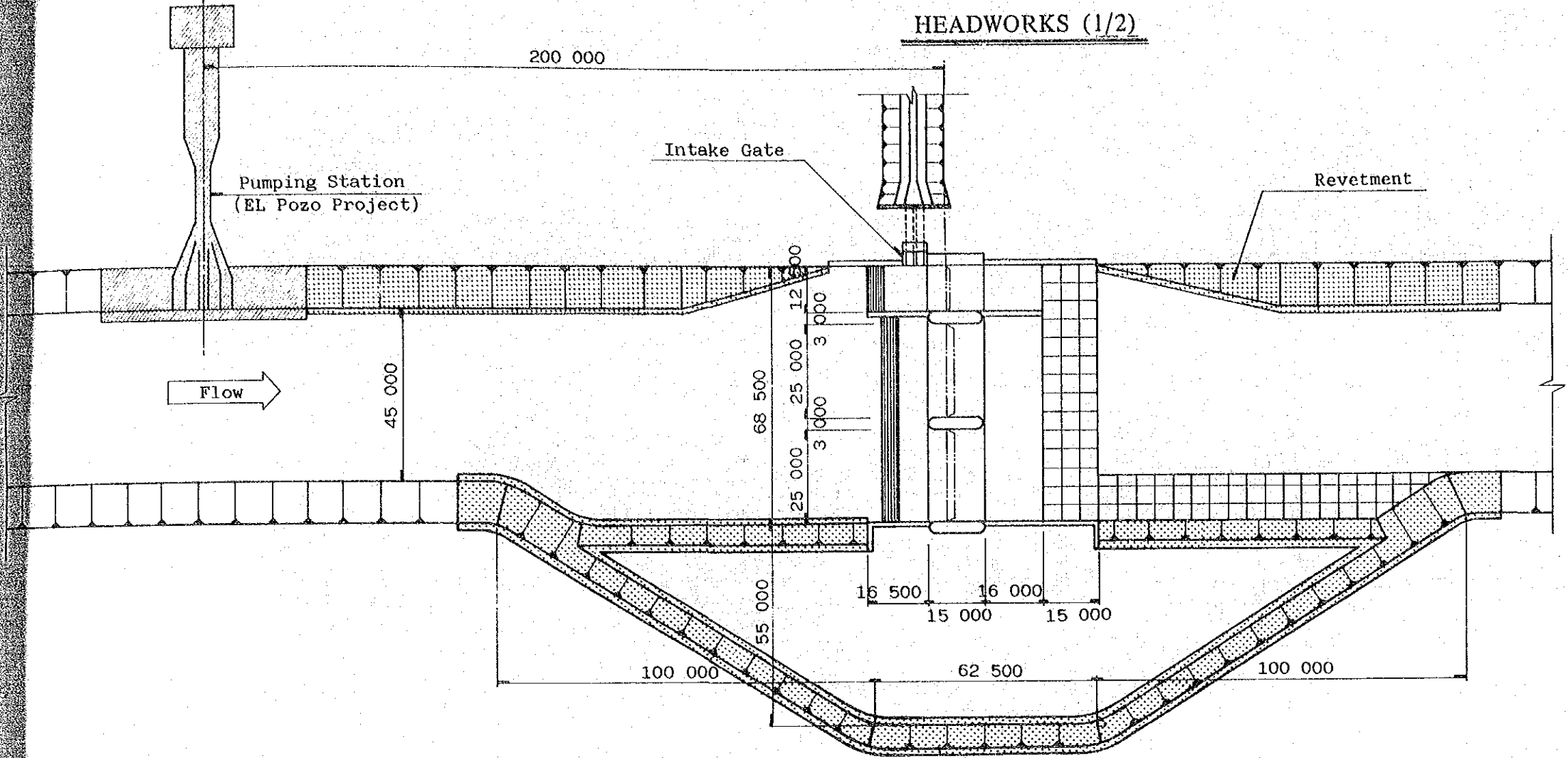
DIMENSION OF MAIN DRAINAGE CANALS

Main Drainage Canal	Discharge Q (m ³ /s)	Slope I	Width Of Canal Bed B (m)	Water Depth d (m)	Velocity V (m/s)
I - 1	73.9	1/15,000	45.0	3.4	0.41
- 2	69.2	1/15,000	42.5	3.4	0.42
- 3	59.9	1/15,000	35.0	3.4	0.41
- 4	48.5	1/15,000	30.0	3.4	0.40
- 5	35.0	1/15,000	20.0	3.4	0.38
- 6	19.2	1/15,000	10.0	3.4	0.35
- 7	6.1	1/15,000	1.5	3.4	0.29
II - 1	15.9	1/6,000	15.0	2.0	0.44
- 2	9.5	1/6,000	8.0	2.0	0.41
III	8.9	1/20,000	15.0	2.0	0.24
IV - 1	19.4	1/15,000	20.0	2.5	0.32
- 2	14.6	1/1,500	16.0	2.0	0.78

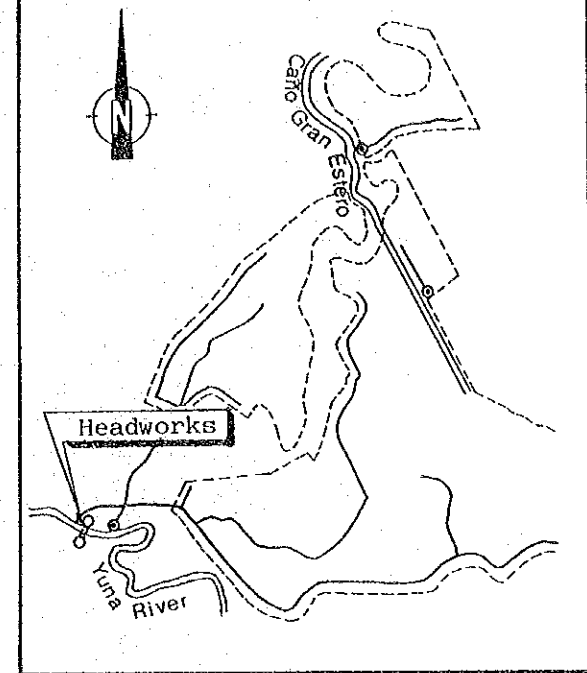
DIMENSION OF SECONDARY DRAINAGE CANALS

Secondary Drainage Canal	Discharge Q (m ³ /s)	Slope I	Width of Canal Bed B (m)	Water Depth d (m)	Velocity V (m/s)
I	4.3	1/2,000	3.0	1.5	0.53
II - 1	8.0	1/2,000	4.0	2.0	0.64
- 2	10.0	1/2,000	3.0	2.0	0.62
III	7.5	1/2,000	2.5	2.0	0.60
IV	7.4	1/1,500	2.0	2.0	0.69
V	9.5	1/6,000	8.0	2.0	0.41
VI	9.4	1/1,500	3.0	2.0	0.71
VII	3.7	1/20,000	5.0	2.0	0.21
VIII	2.4	1/6,000	2.0	2.0	0.34

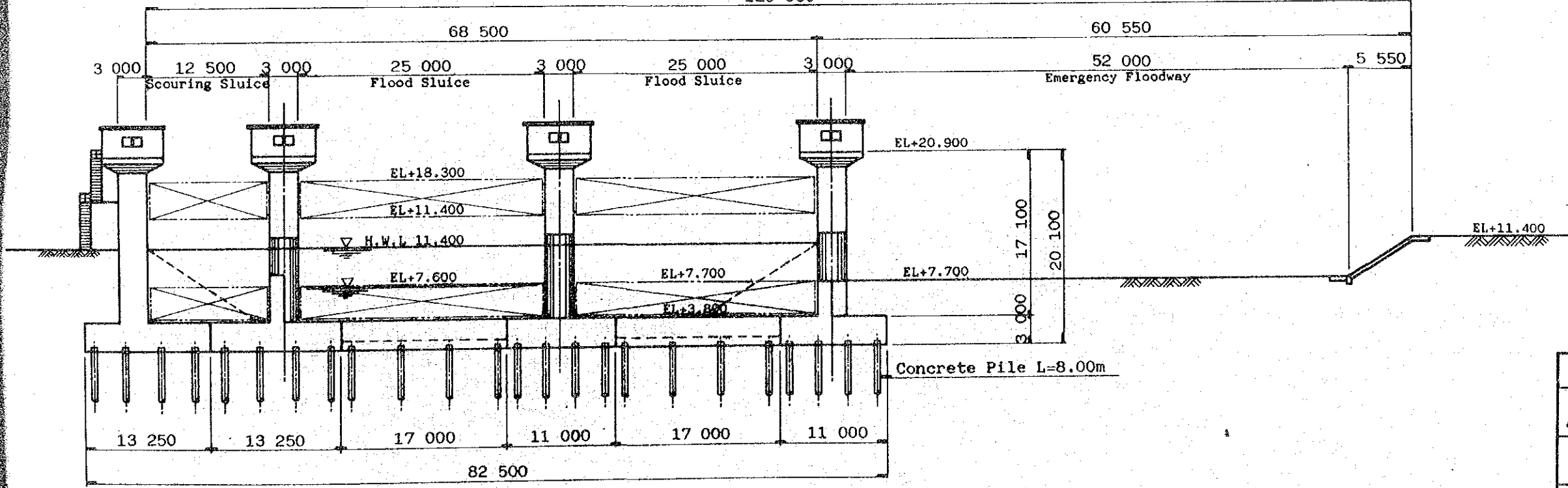
HEADWORKS (1/2)



P L A N



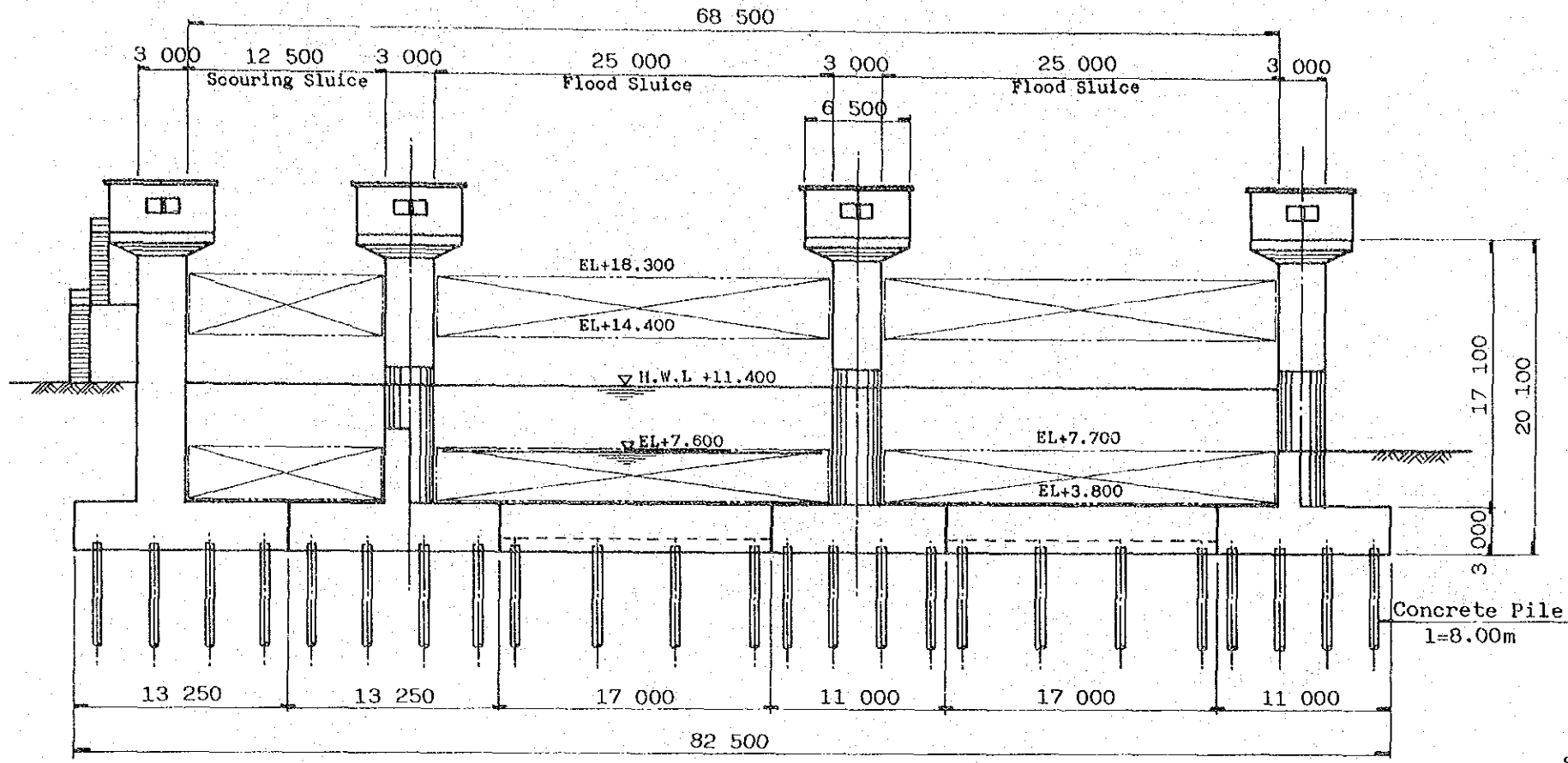
129 050



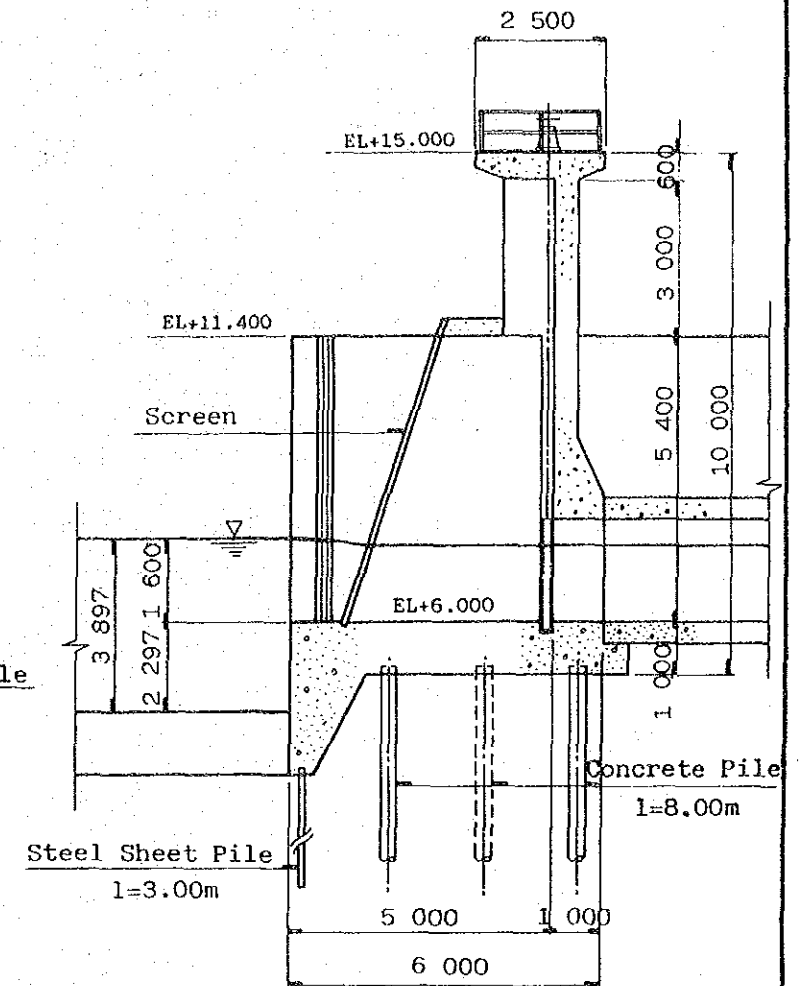
FRONT VIEW

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THE AGUACATE-GUAYABO AGRICULTURAL DEVELOPMENT PROJECT	
HEADWORKS (1/2)	
AUGUST, 1986	No.11
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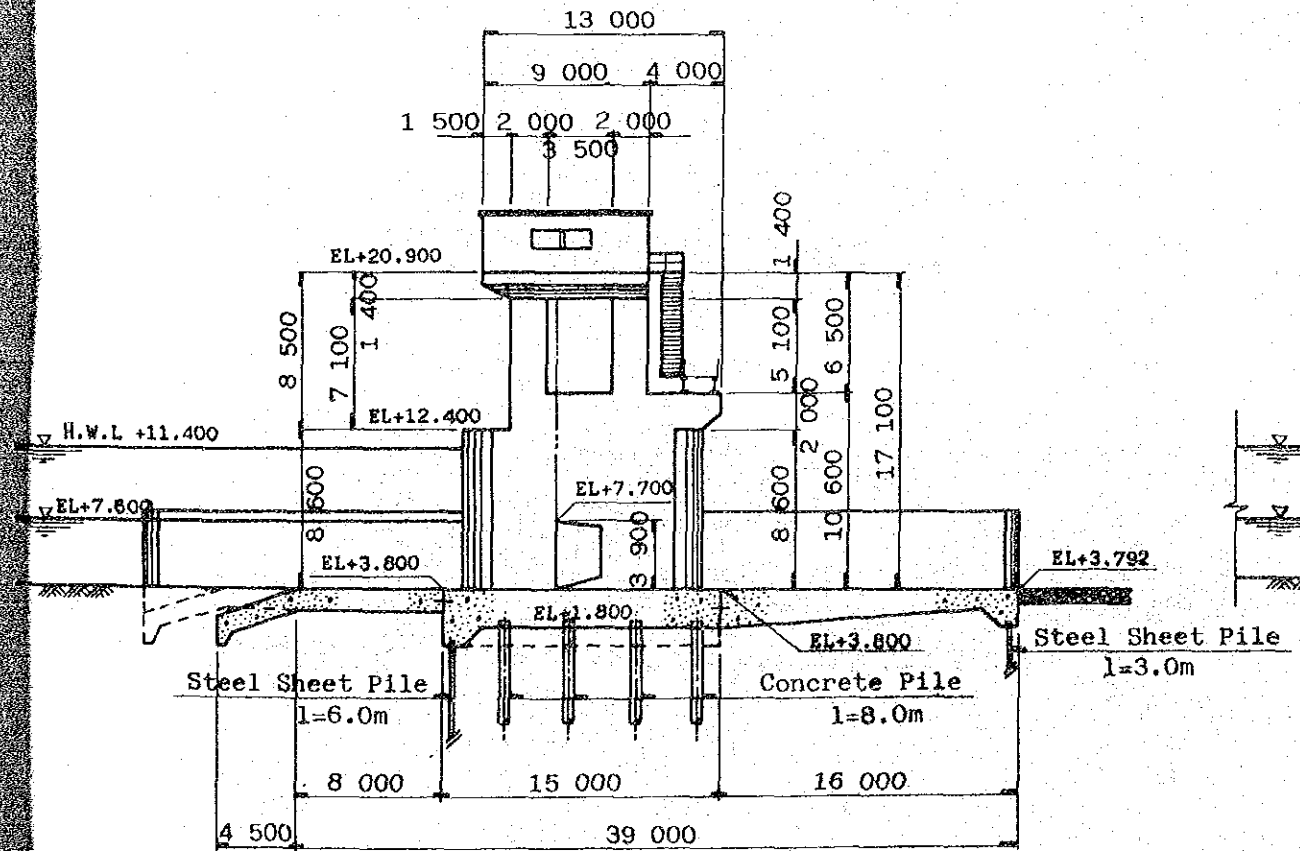
HEADWORKS (2/2)



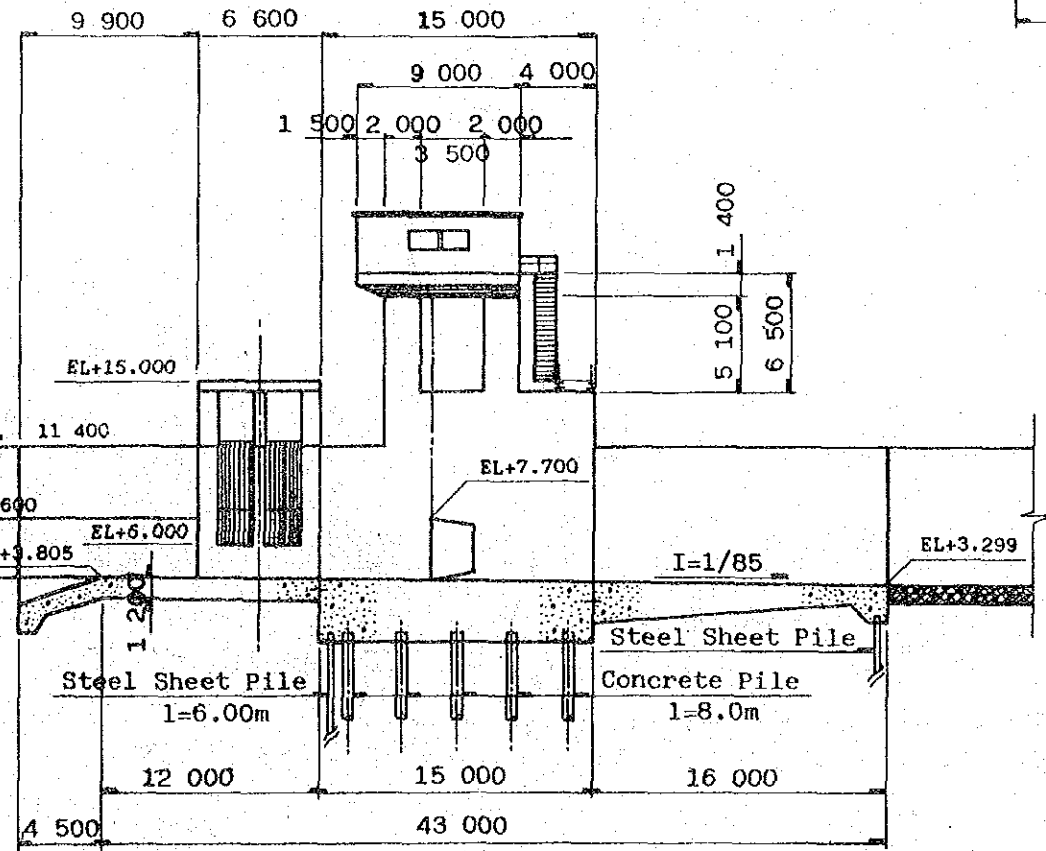
FRONT VIEW



INTAKE



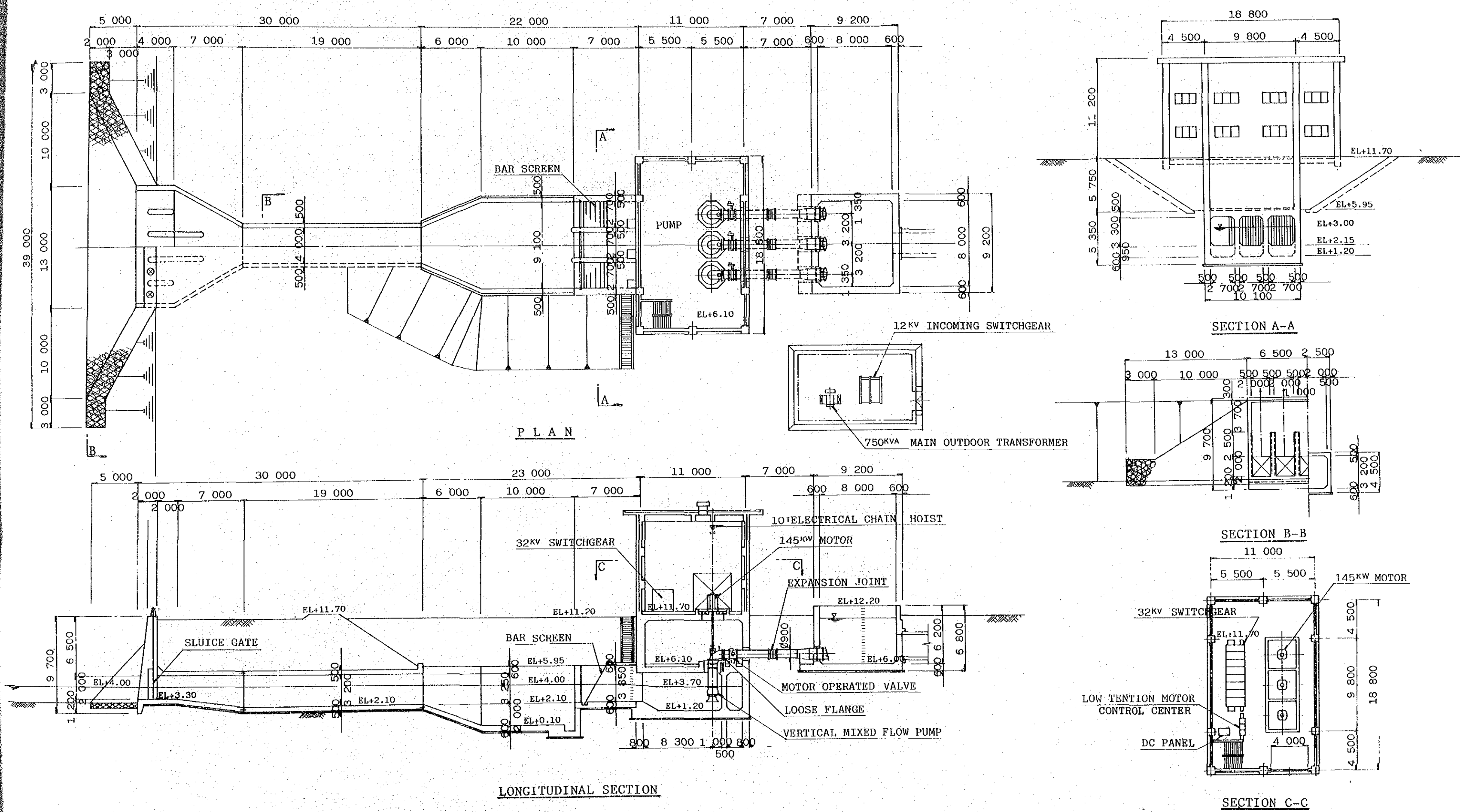
FLOOD SLUICE



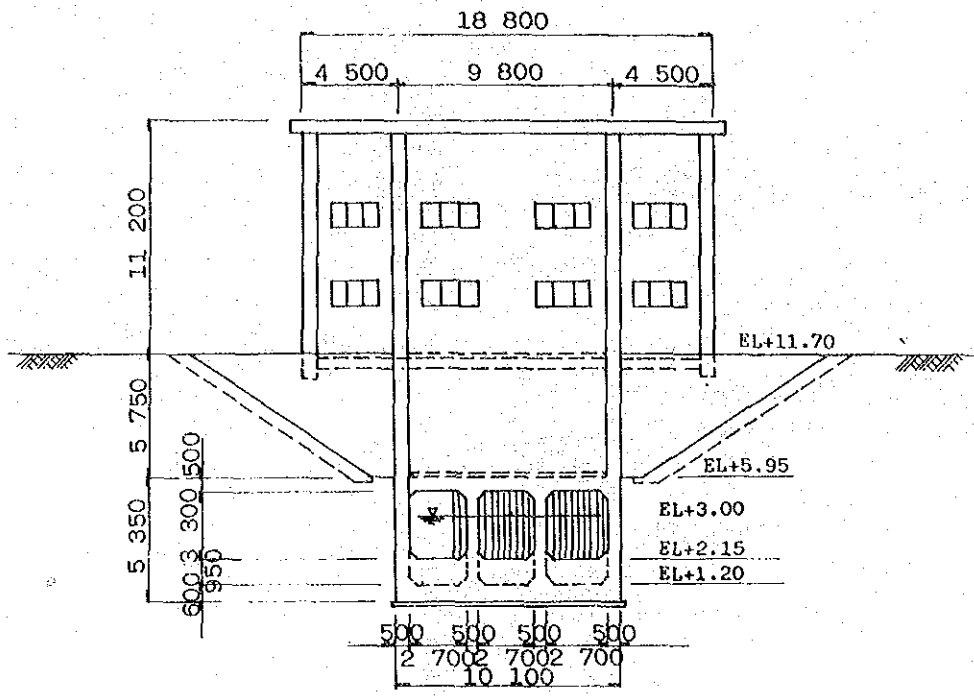
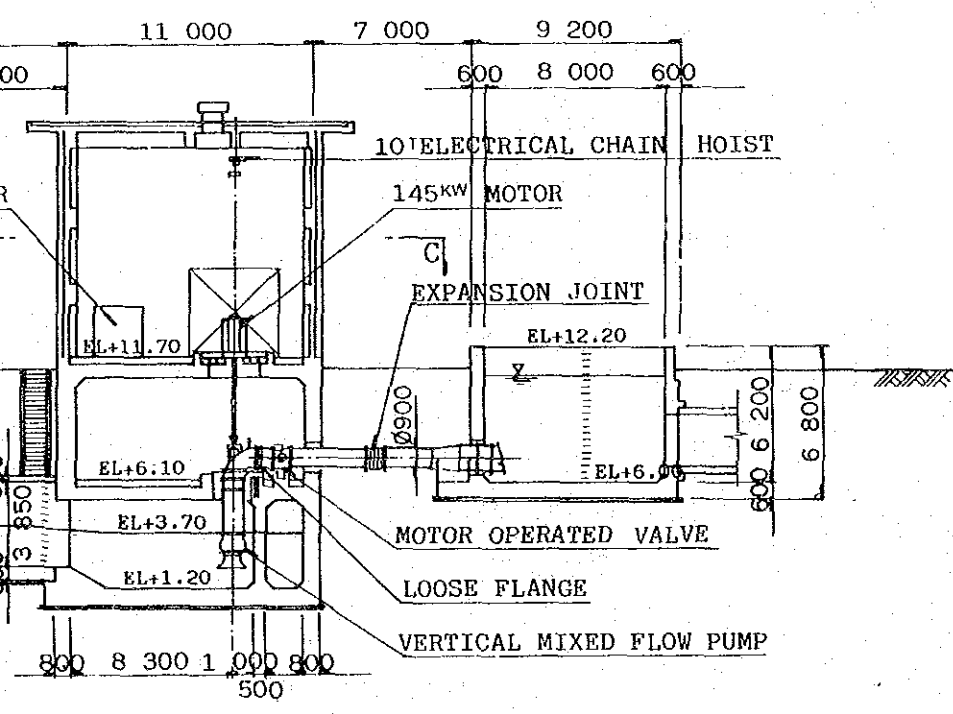
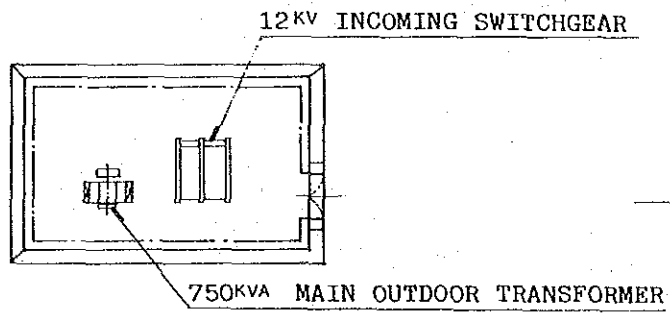
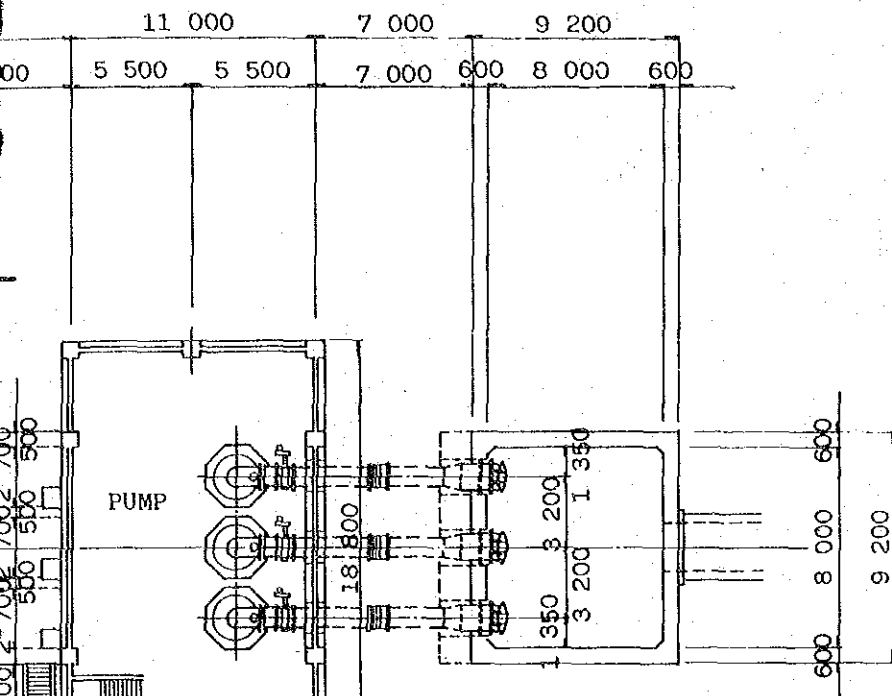
SCOURING SLUICE

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HEADWORKS (2/2)	
AUGUST, 1986	No. 12
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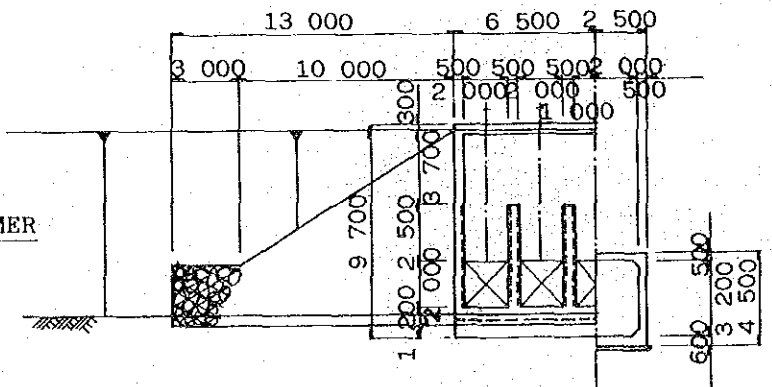
MAIN PUMPING STATION



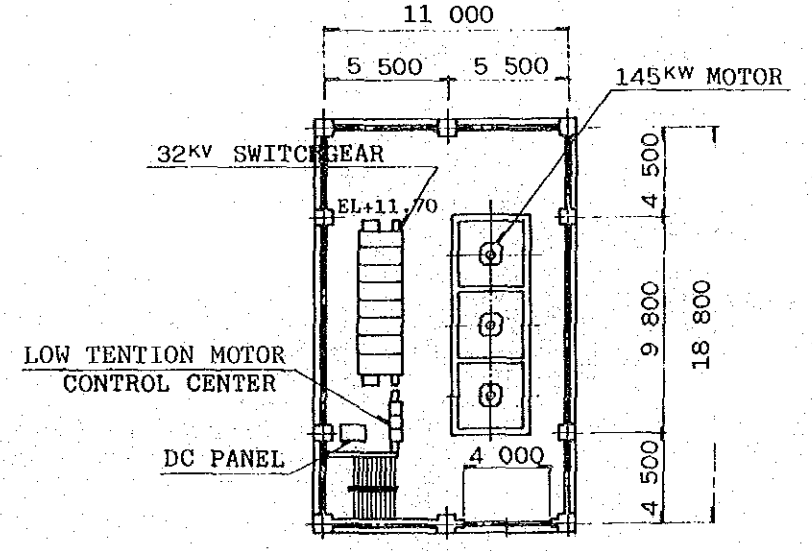
MAIN PUMPING STATION



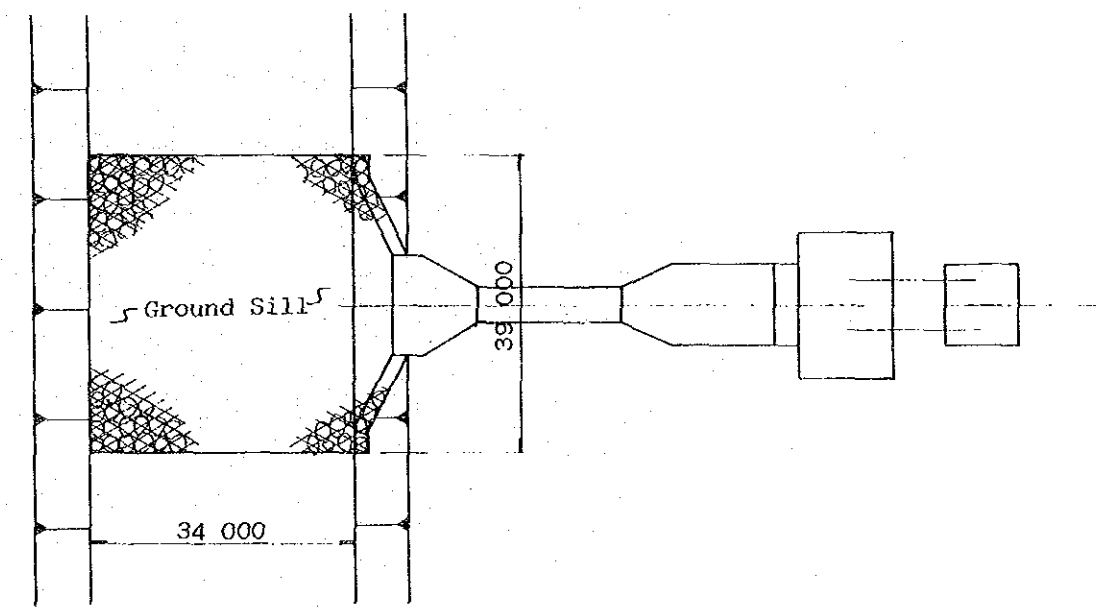
SECTION A-A



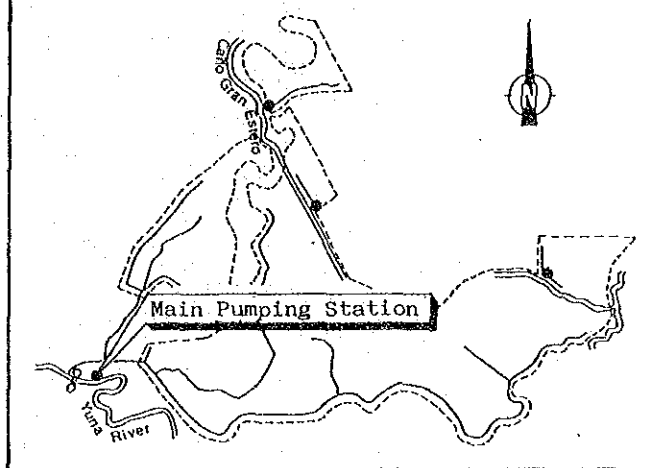
SECTION B-B



SECTION C-C

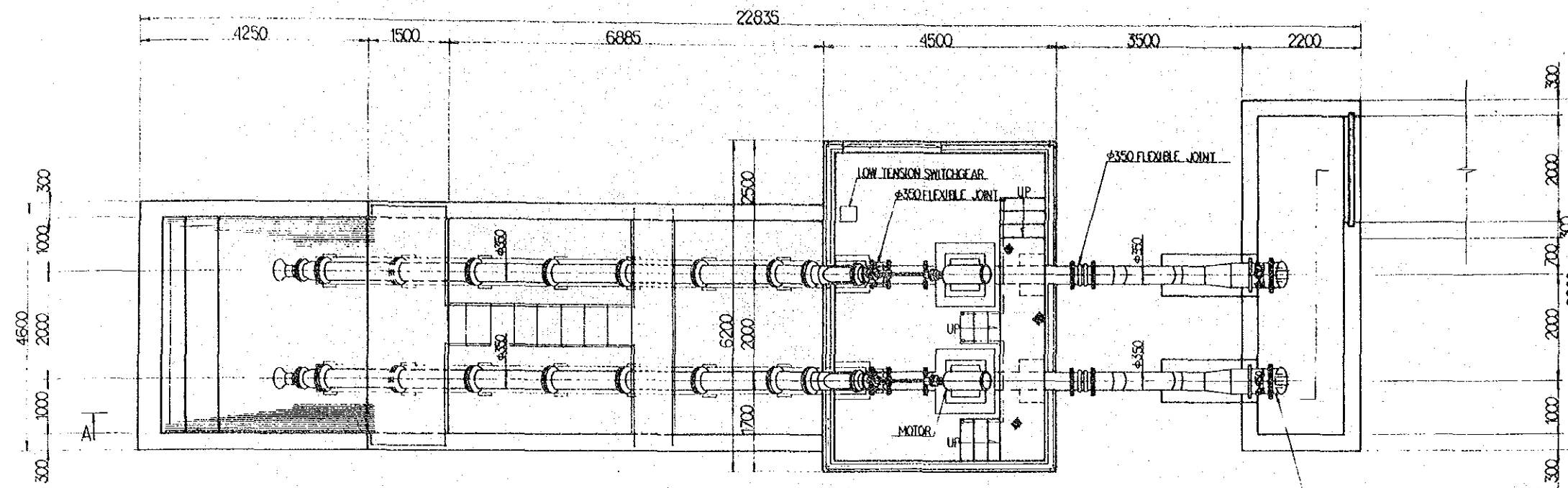


PLAN OF GROUND SILL

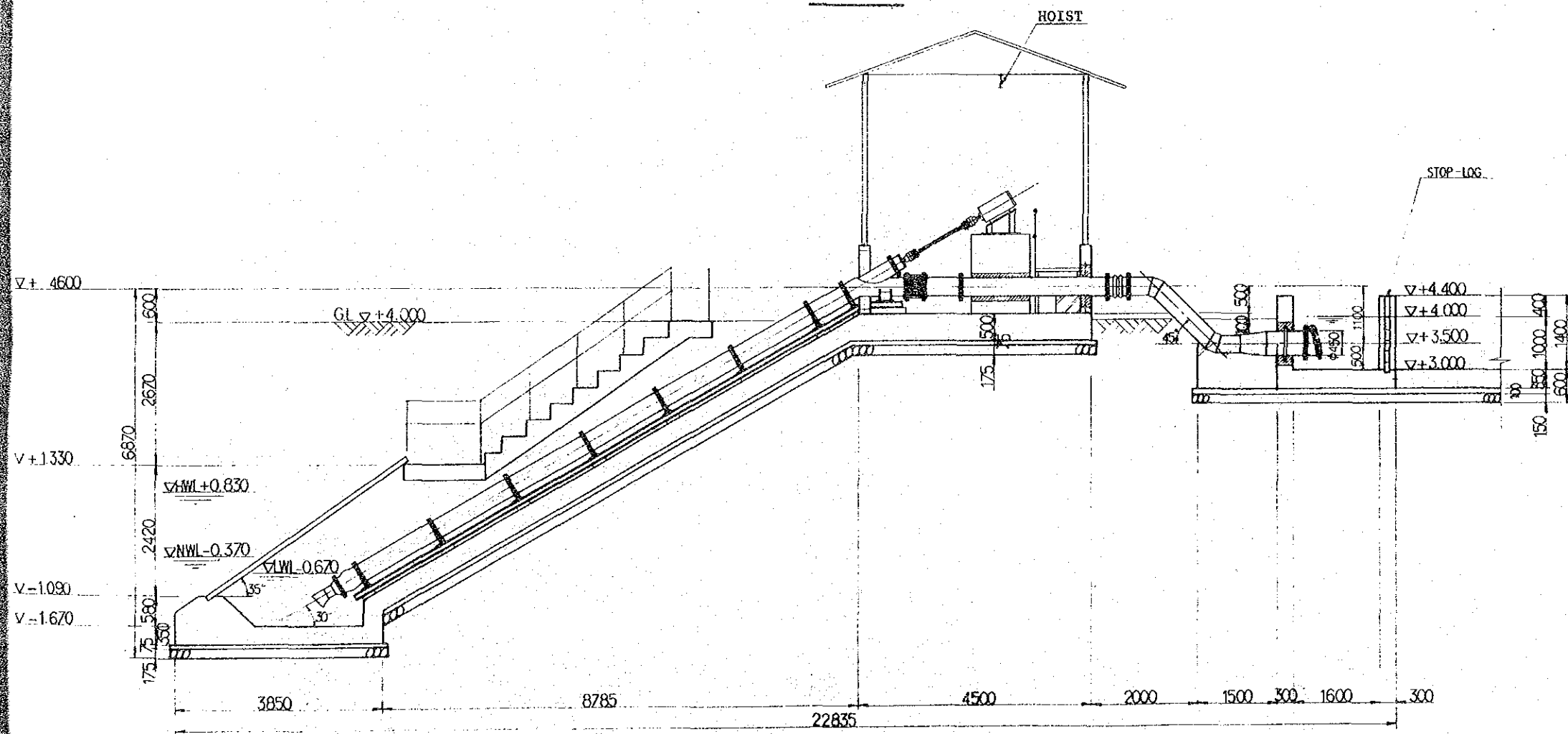
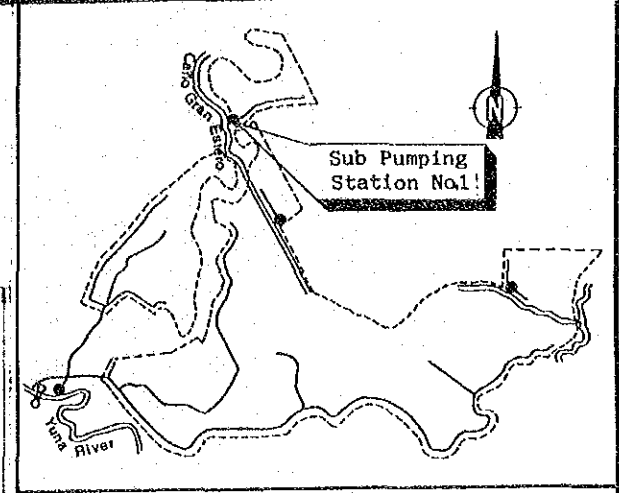


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MAIN PUMPING STATION	
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SUB PUMPING STATION NO. 1



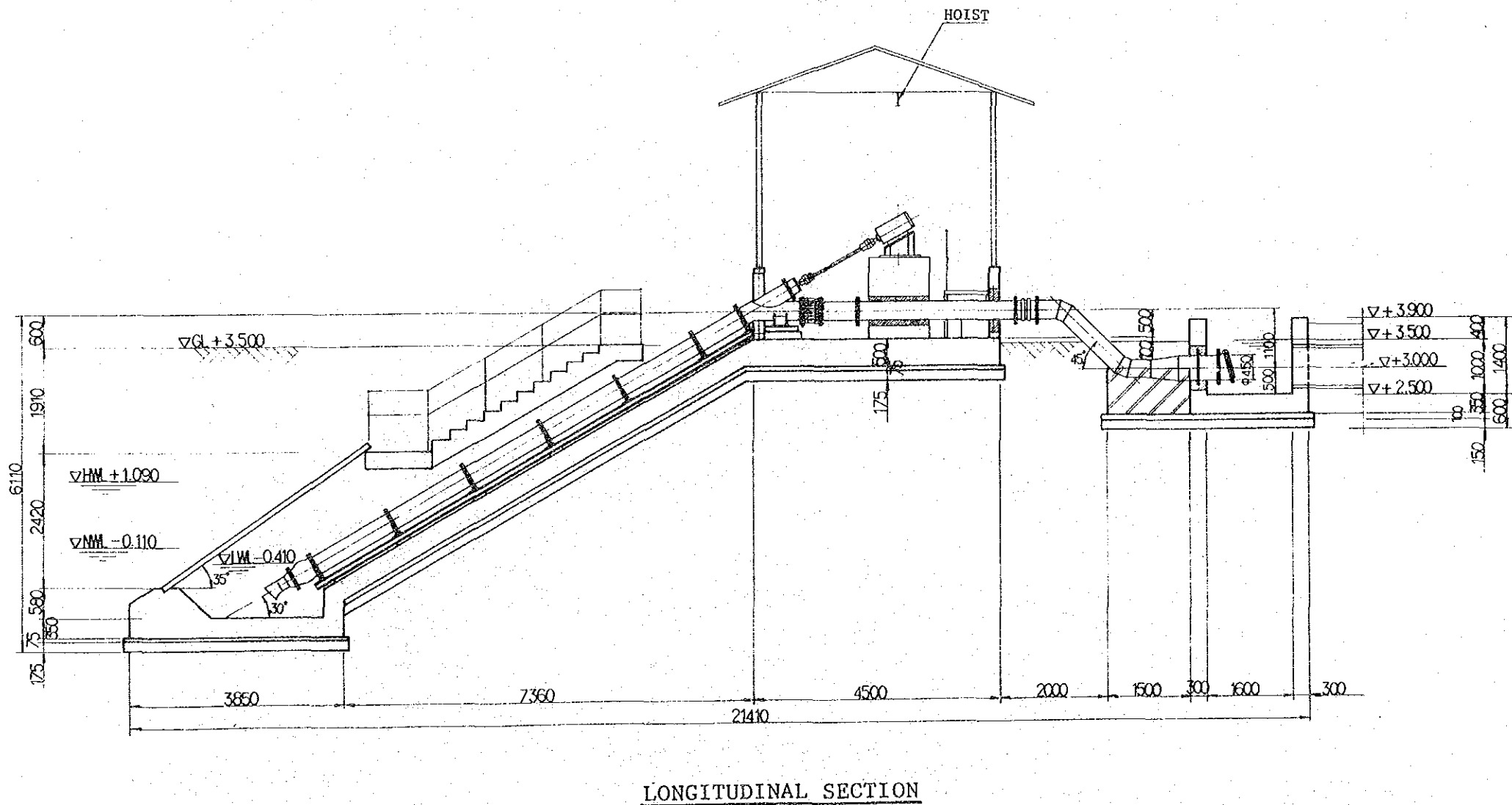
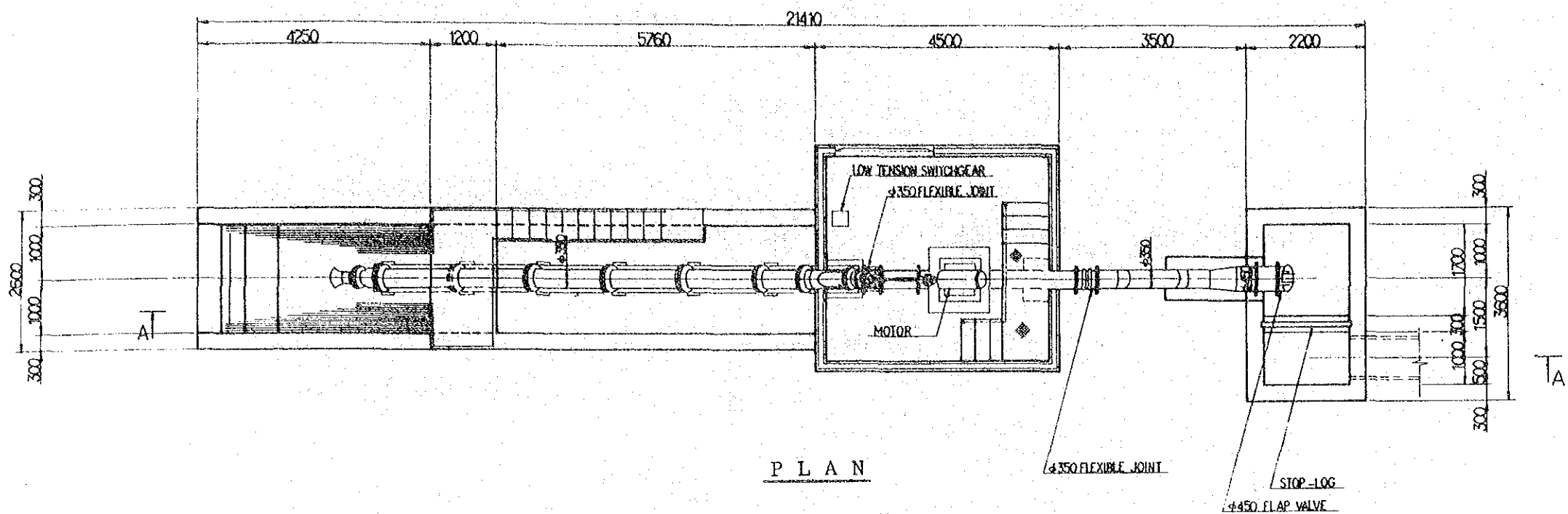
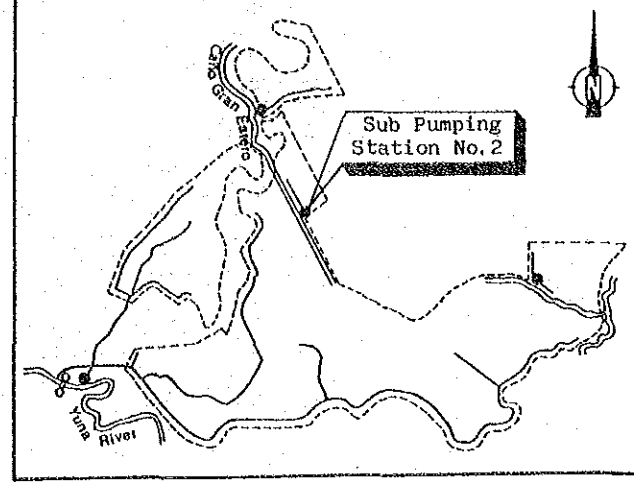
PLAN



LONGITUDINAL SECTION

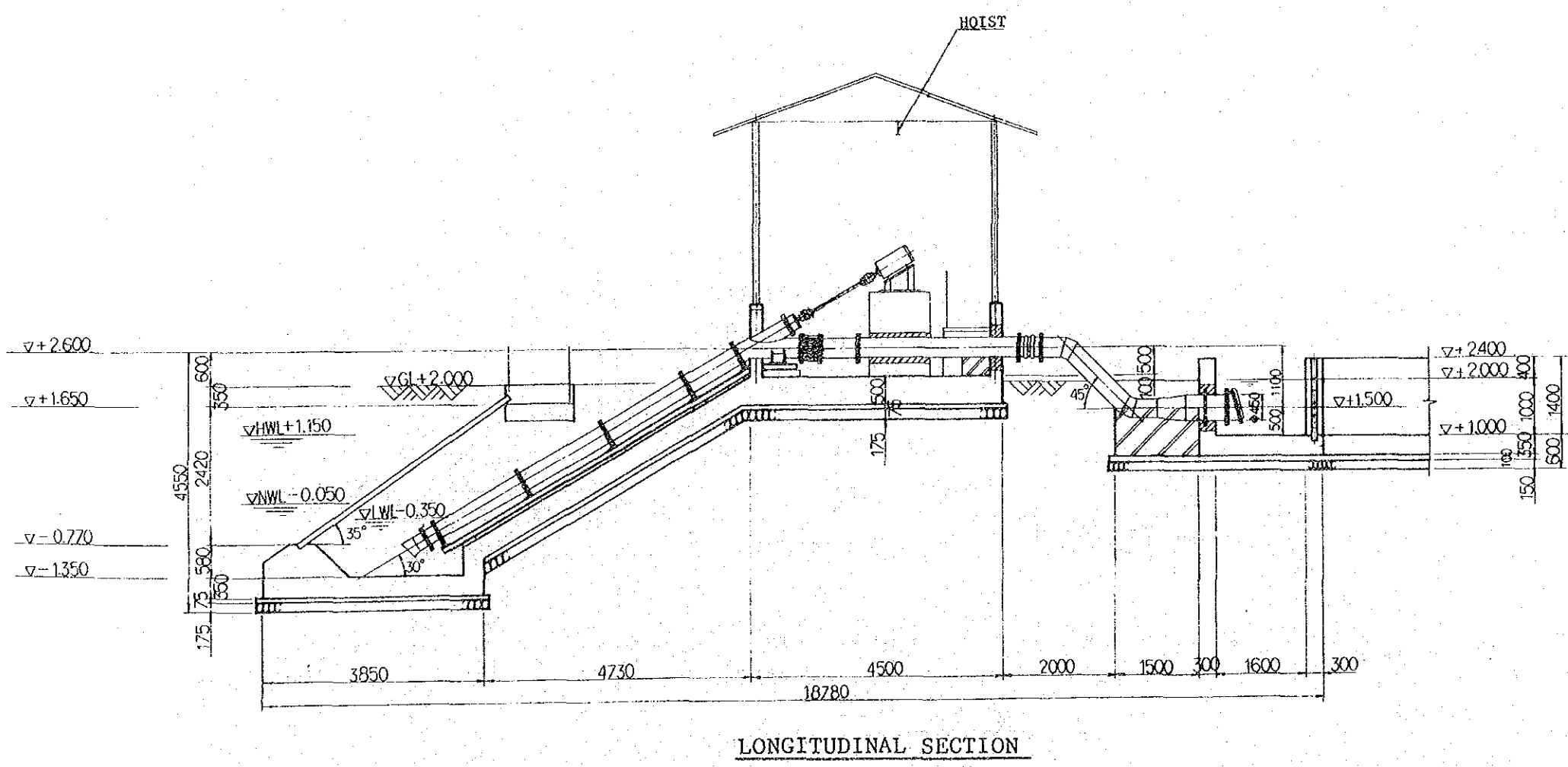
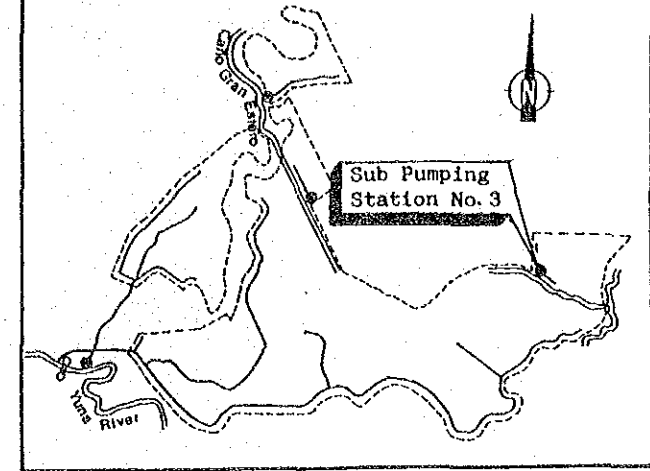
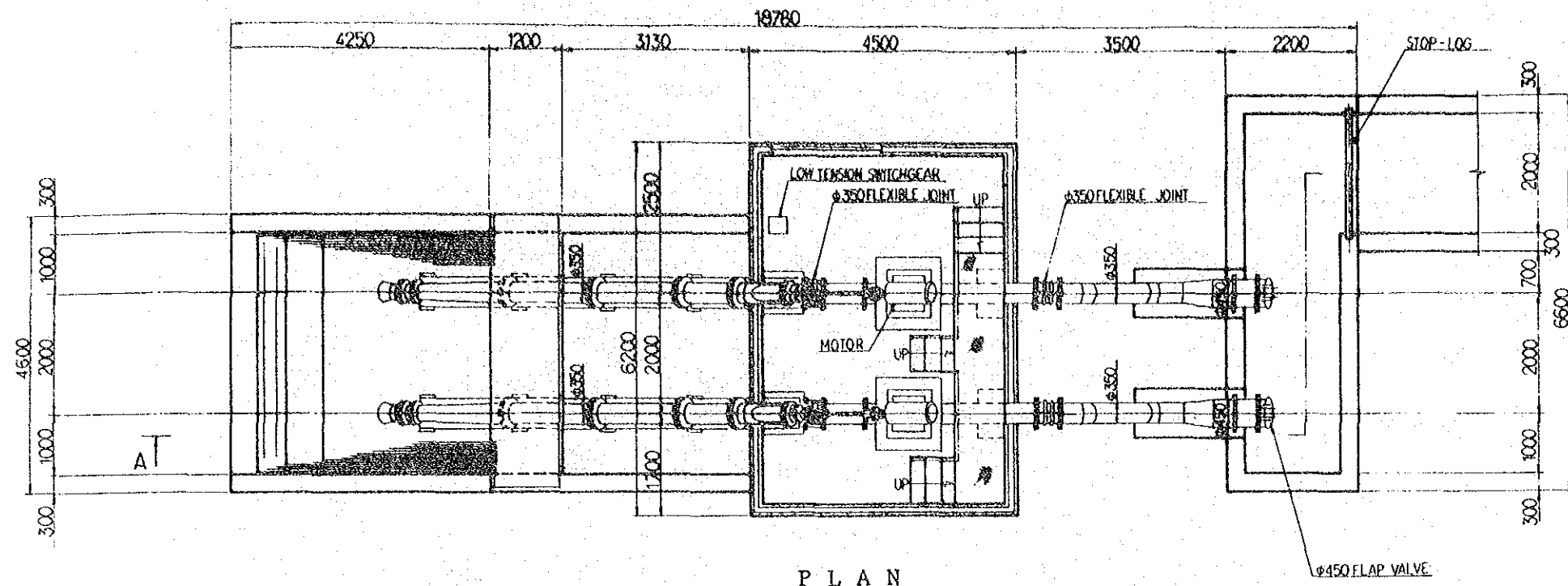
THE DOMINICAN REPUBLIC	
THE AGUACATE-GUAYABO AGRICULTURAL DEVELOPMENT PROJECT	
SUB PUMPING STATION NO. 1	
AUGUST, 1986	No. 14
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

SUB PUMPING STATION NO. 2



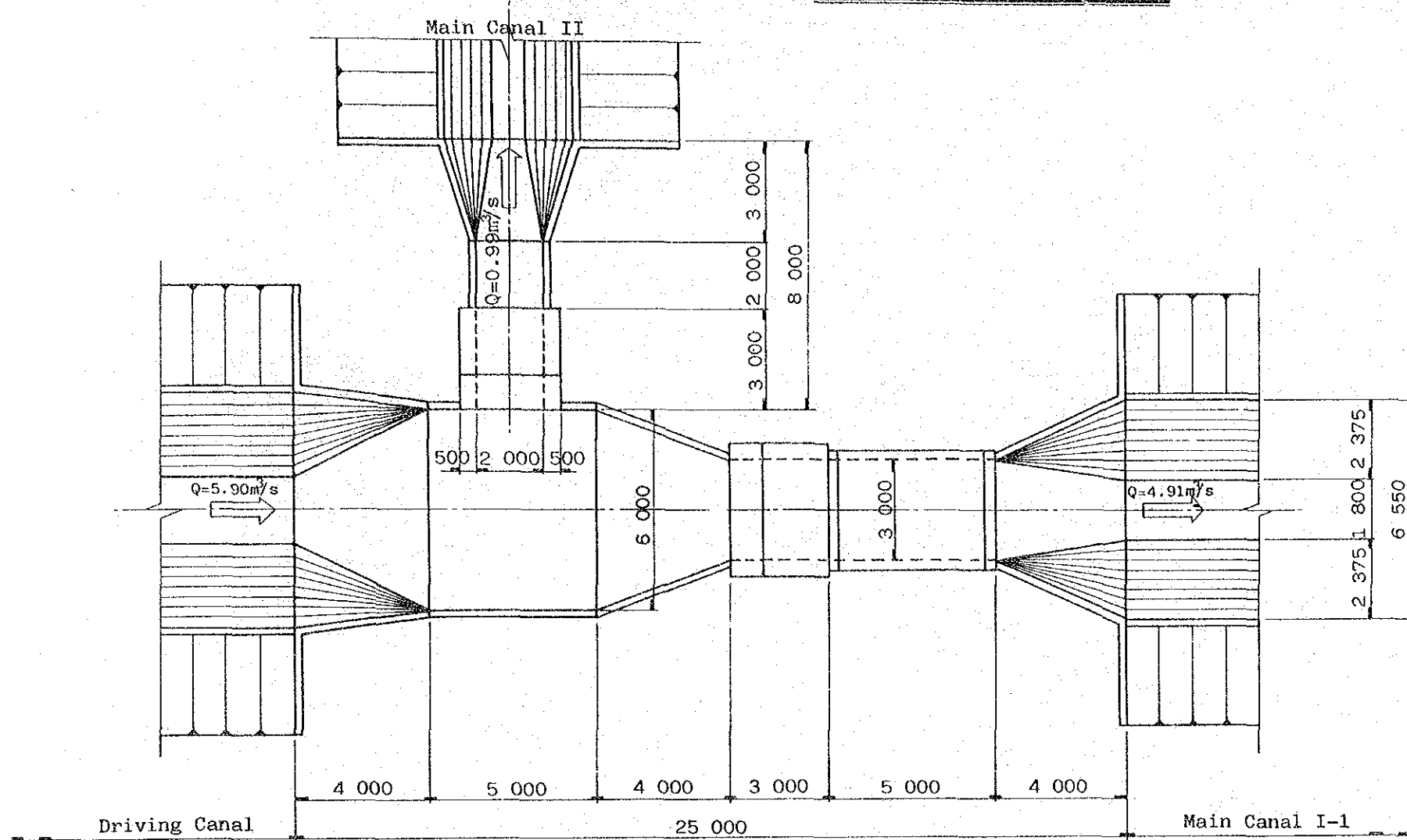
THE DOMINICAN REPUBLIC	
THE AGUACATE-GUAYABO AGRICULTURAL DEVELOPMENT PROJECT	
SUB PUMPING STATION NO. 2	
AUGUST, 1986	No. 15
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

SUB PUMPING STATION NO. 3

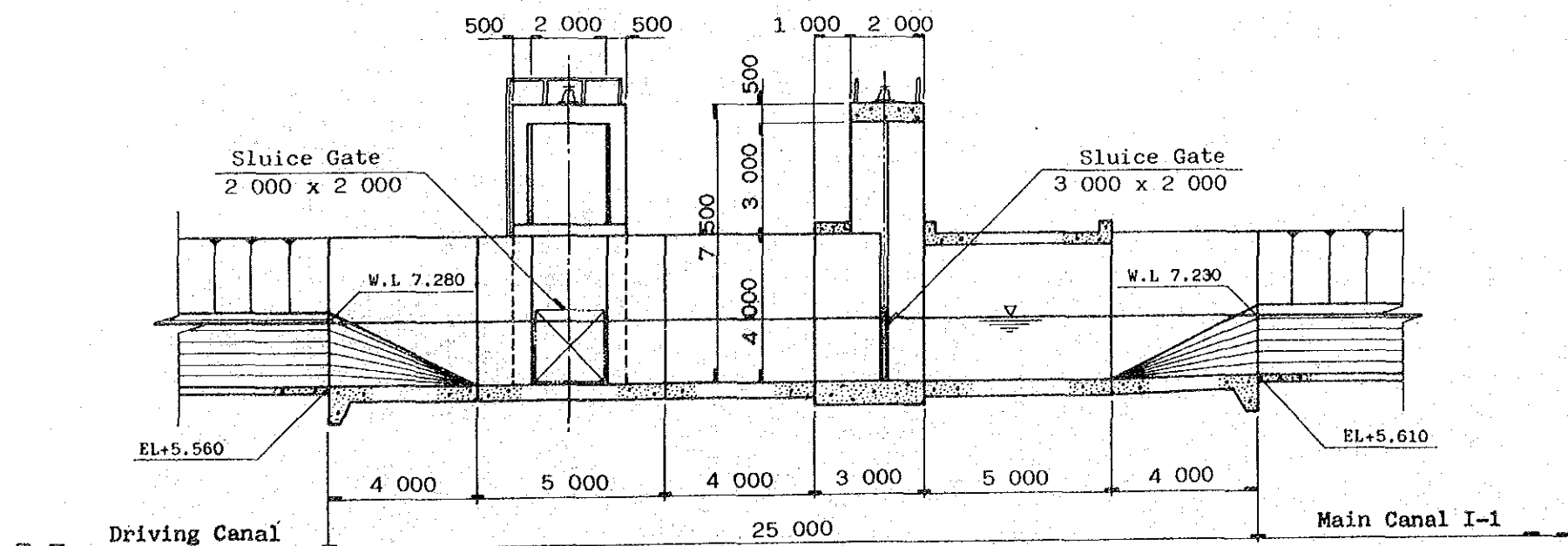


THE DOMINICAN REPUBLIC	
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SUB PUMPING STATION NO. 3	
AUGUST, 1986	No. 16
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

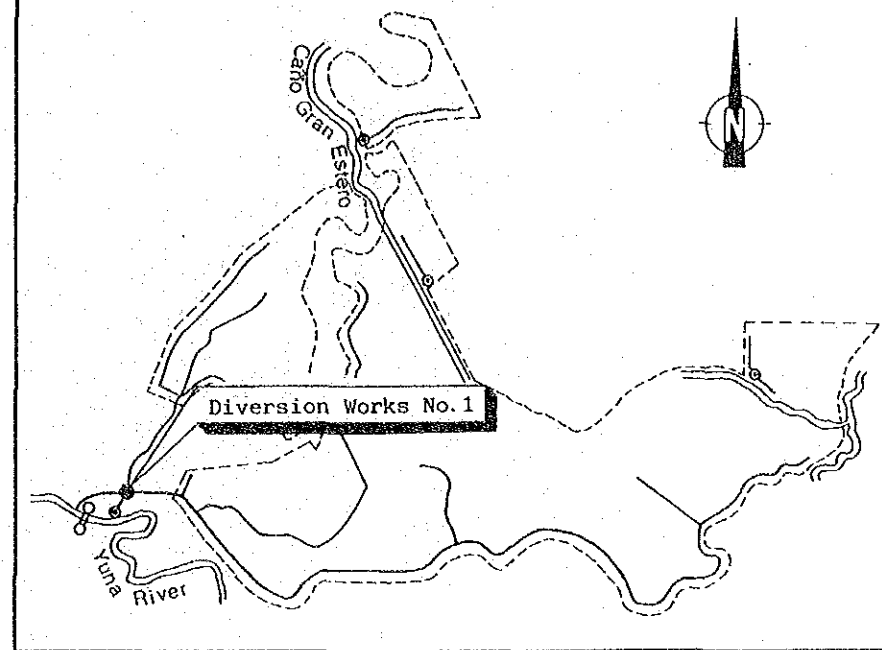
DIVERSION WORKS NO. 1



P L A N

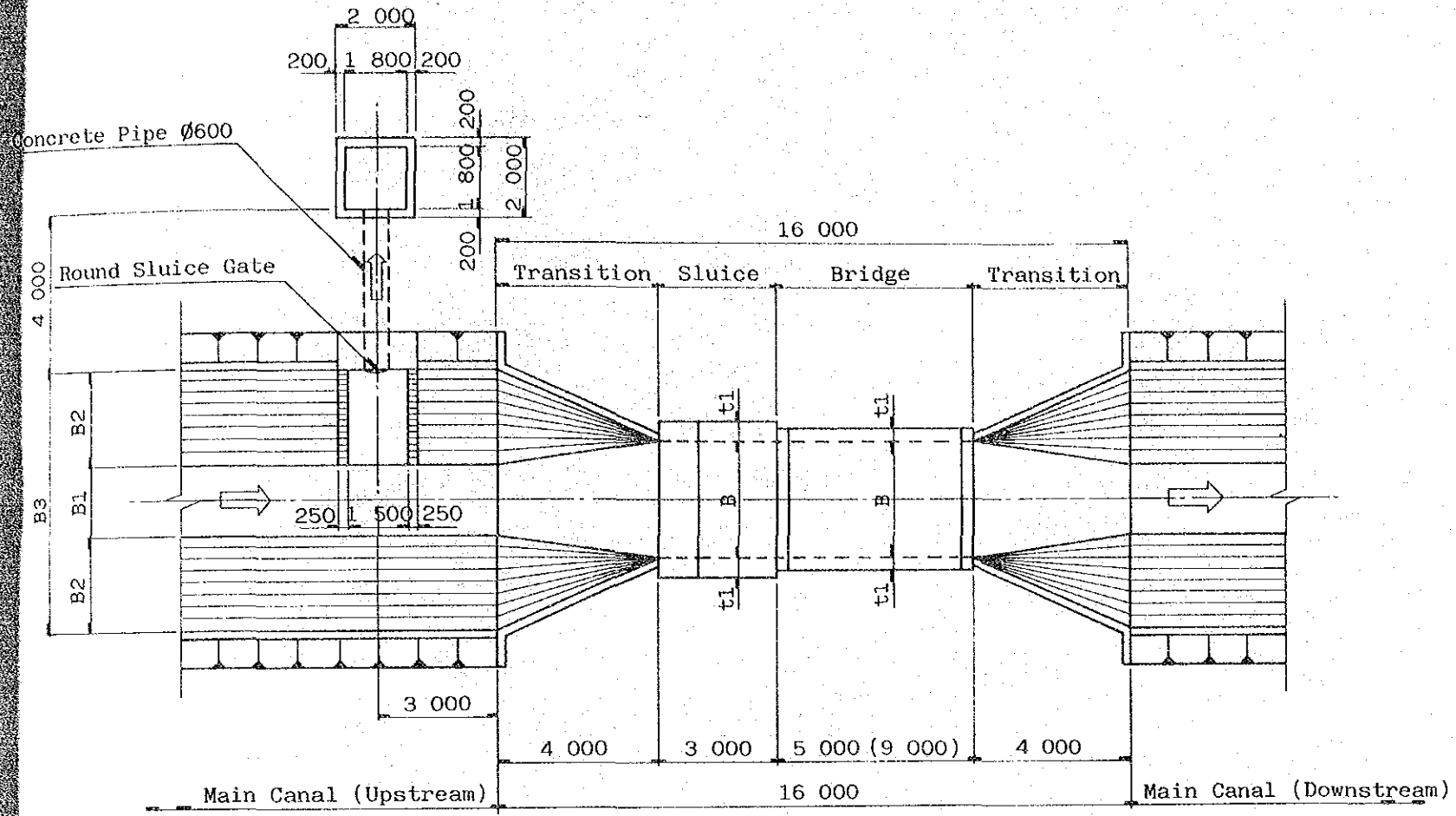


LONGITUDINAL SECTION

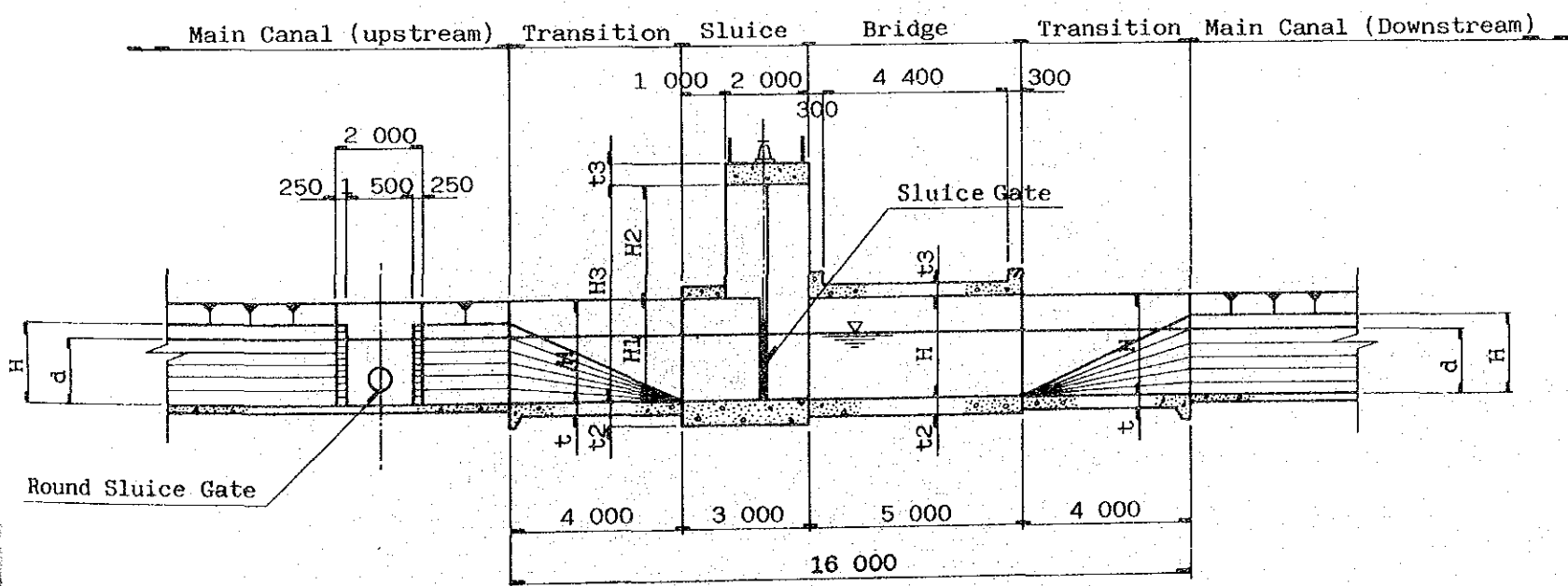


THE DOMINICAN REPUBLIC	
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DIVERSION WORKS NO. 1	
AUGUST, 1986	No. 17
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

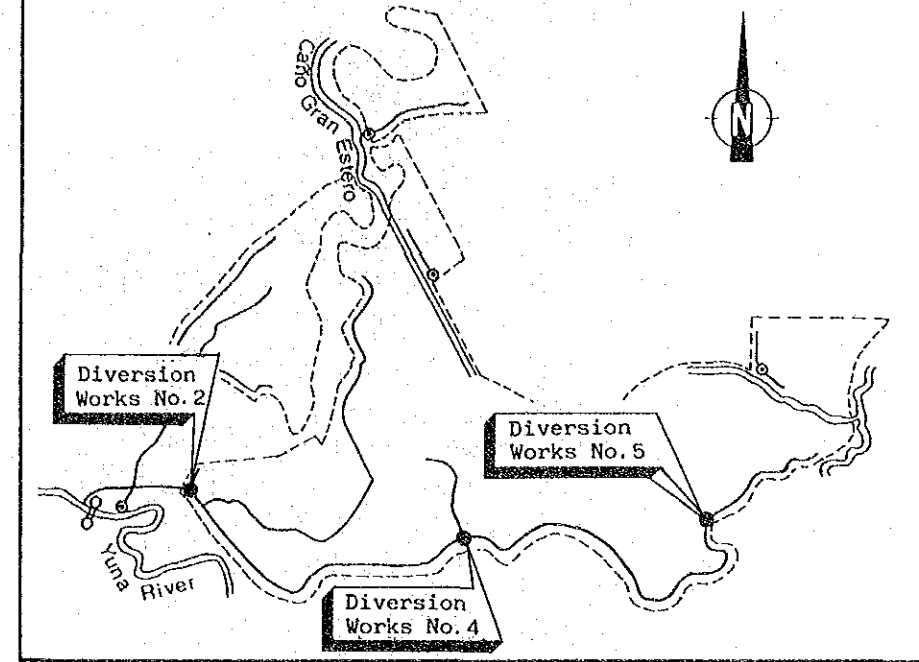
DIVERSION WORKS NO. 2, NO. 4 & NO. 5



P L A N



LONGITUDINAL SECTION



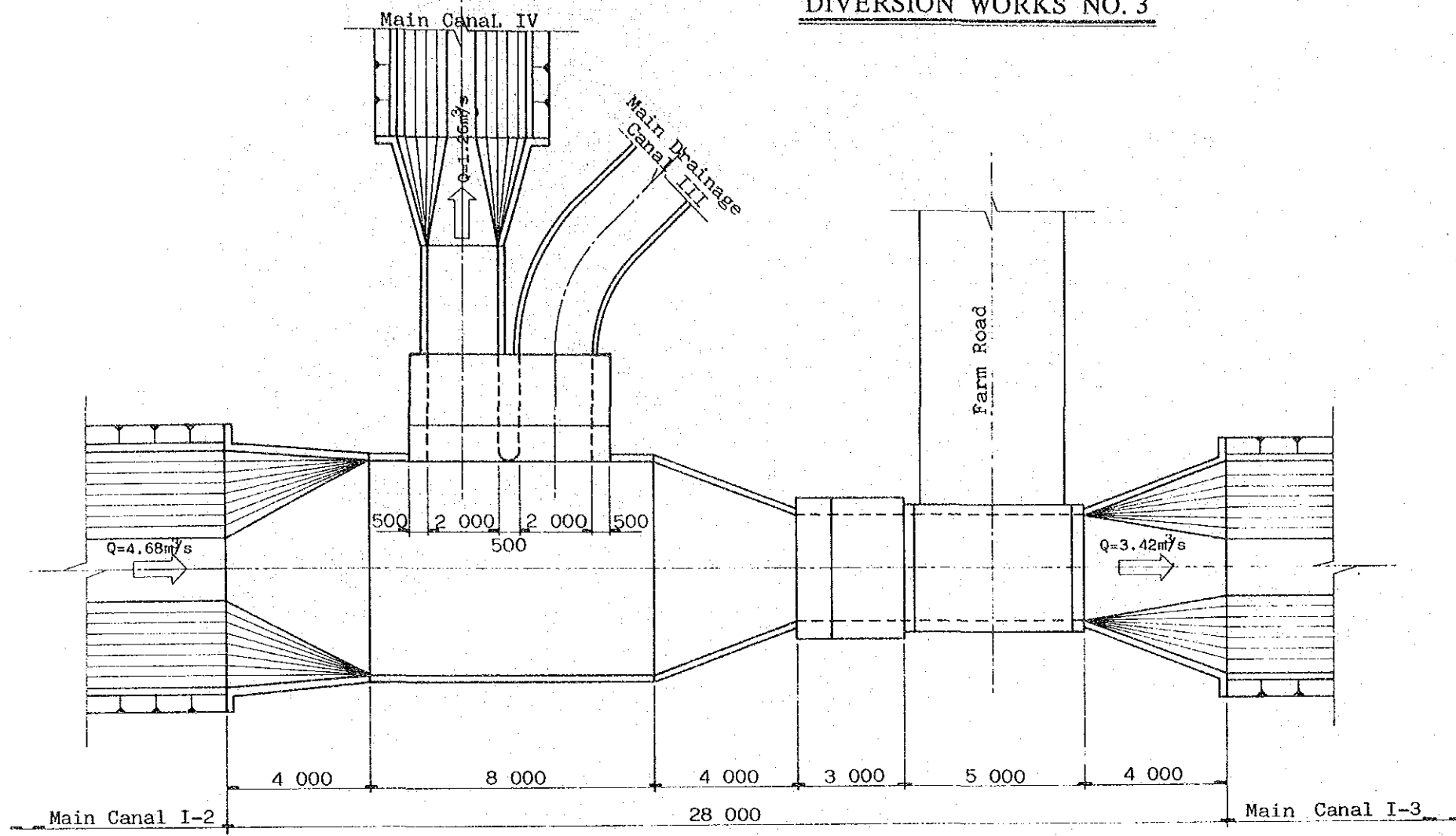
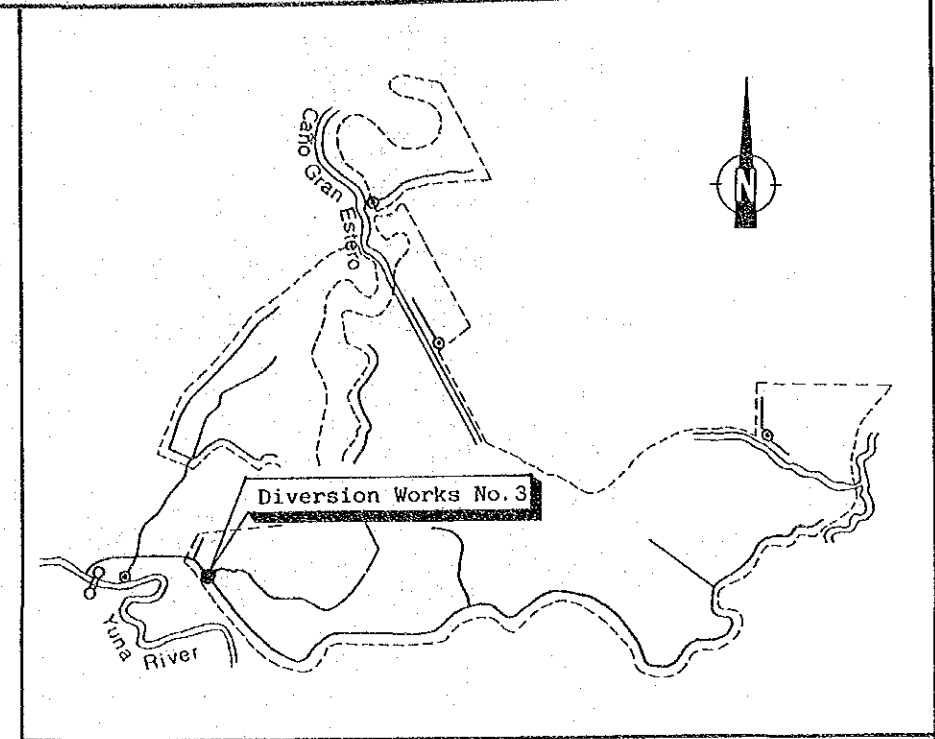
DIMENSION OF DIVERSION WORKS

(UNIT: mm)

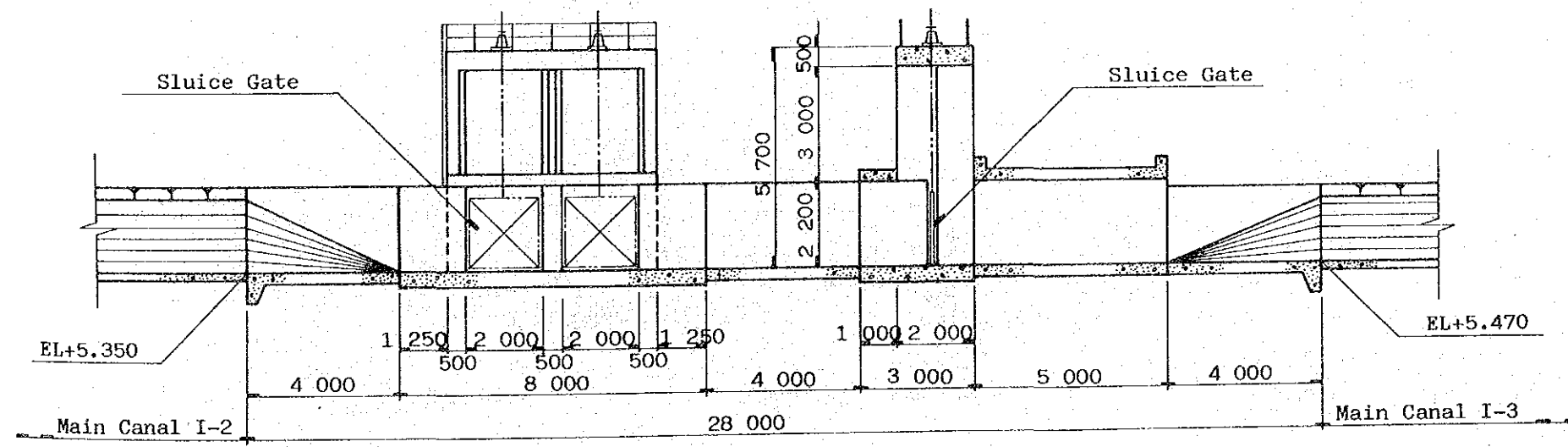
	Canal Name	NO. 2		NO. 4		NO. 5	
		Upstream	Downstream	Upstream	Downstream	Upstream	Downstream
Main Canal	Q	4.91	4.68	2.95 (2.58)	2.19	1.24 (1.08)	0.68
	B1	1 800	1 800	1 500	1 500	1 000	800
	B2	2 375	2 375	2 000	1 875	1 625	1 250
	B3	6 550	6 550	5 500	5 250	4 250	3 300
	d	1 620	1 580	1 330 (1 250)	1 180	990 (920)	790
	H	1 900	1 900	1 600	1 500	1 300	1 000
Transition	H	2 400	2 400	1 900	1 800	1 600	1 300
	t	300	300	300	300	300	250
Sluice	B	3 000		2 600		1 400	
	H1	2 400		1 900		1 600	
	H2	2 700		2 400		2 100	
	H3	5 100		4 300		3 700	
	t1	500		500		400	
	t2	600		600		500	
	t3	500		500		400	
Gate	3 000 x 1 900		2 600 x 1 600		1 400 x 1 300		
Bridge	B	3 000		2 600		1 400	
	H	2 400		1 900		1 600	
	t1	300		300		250	
	t2	350		350		300	
t3	300		300		250		

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AGRICULTURAL DEVELOPMENT PROJECT
DIVERSION WORKS NO. 2, NO. 4 &
NO. 5
AUGUST, 1986 No. 18
JAPAN INTERNATIONAL
COOPERATION AGENCY (JICA)

DIVERSION WORKS NO. 3



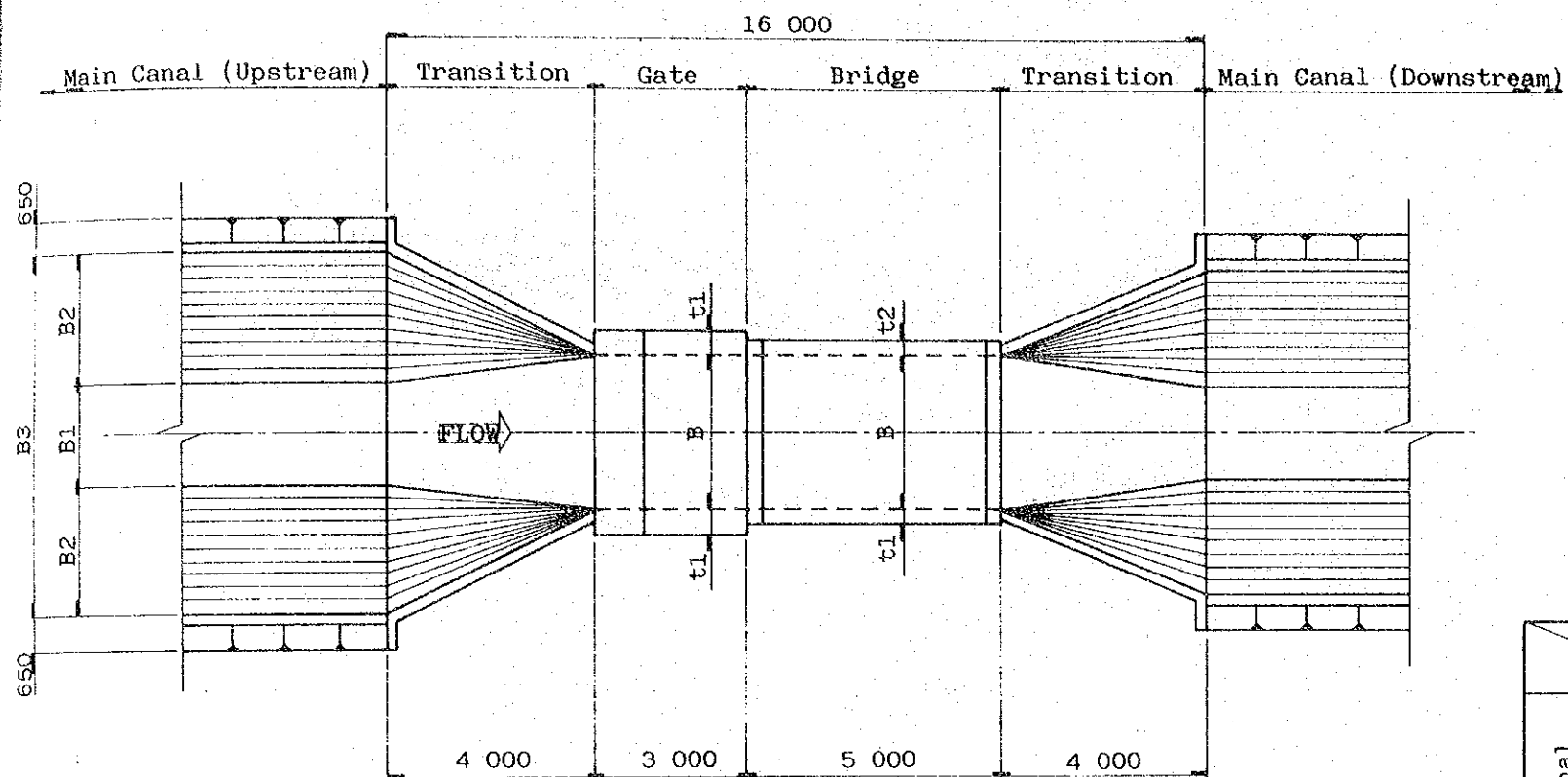
P L A N



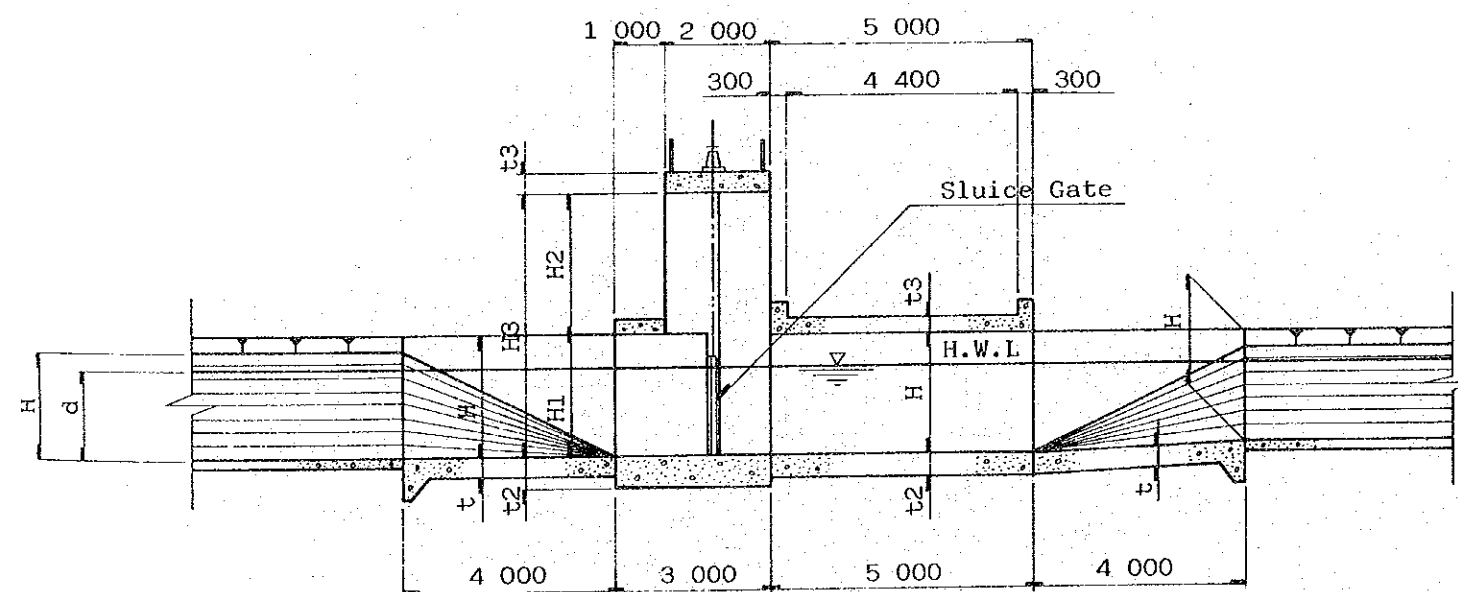
L O N G I T U D I N A L S E C T I O N

THE DOMINICAN REPUBLIC	
THE AGUACATE-GUAYABO AGRICULTURAL DEVELOPMENT PROJECT	
DIVERSION WORKS NO. 3	
AUGUST, 1986	No. 19
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	

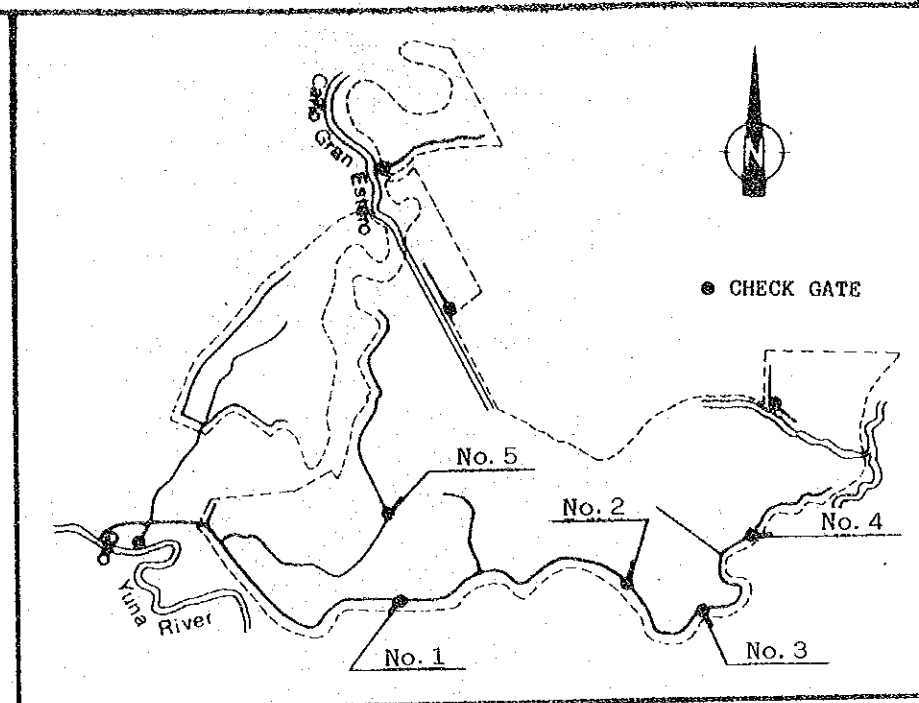
CHECK GATE



PLAN



LONGITUDINAL SECTION



DIMENSION OF CHECK GATES

(UNIT: mm)

	Canal Name	NO.1		NO.2		NO.3		NO.4		NO.5	
		Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream
Main Canal	I-3	3.42	2.95	I-5	2.19	I-6	1.48	I-6	1.48	I-7	1.28
	I-4	2.19	1.48	I-6	1.48	I-7	1.28	I-8	0.68	I-9	0.39
	Q	3.42	2.95	I-5	2.19	I-6	1.48	I-6	1.48	I-7	1.28
	B1	1.600	1.500	1.400	1.000	1.000	1.000	800	800	800	800
	B2	2.125	2.000	1.875	1.625	1.625	1.625	1.250	1.000	1.375	1.250
	B3	5.850	5.500	5.150	4.250	4.250	4.250	3.300	2.800	3.550	3.300
Transition	d	1.410	1.330	1.180	1.070	1.070	990	790	600	810	740
	H	1.700	1.600	1.500	1.300	1.300	1.600	1.300	1.000	800	1.100
Sluice Gate	H	2.000	1.900	1.800	1.600	1.600	1.600	1.300	1.100	1.400	1.300
	t1	300	300	300	300	250	250	250	250	250	250
Bridge	B	3.000	2.000	2.000	2.000	2.000	2.000	1.000	1.000	1.600	1.600
	H1	2.000	1.800	1.800	1.600	1.600	1.600	1.300	1.300	1.400	1.400
	H2	2.500	2.300	2.300	2.100	2.100	2.100	1.800	1.800	1.900	1.900
	H3	4.500	4.100	4.100	3.700	3.700	3.700	3.100	3.100	3.300	3.300
	t1	500	400	400	400	400	400	300	300	400	400
	t2	600	500	500	500	500	500	400	400	500	500
	t3	500	400	400	400	400	400	300	300	400	400
Gate	Gate	3000 x 1700	2000 x 1500	2000 x 1300	2000 x 1300	2000 x 1300	2000 x 1300	1000 x 1000	1000 x 1000	1600 x 1400	1600 x 1400
	B	3.000	2.000	2.000	2.000	2.000	2.000	1.000	1.000	1.600	1.600
	H	2.000	1.800	1.800	1.600	1.600	1.600	1.300	1.300	1.400	1.400
	t1	300	250	250	250	250	250	200	200	250	250
	t2	350	300	300	300	300	300	250	250	300	300
t3	300	250	250	250	250	250	200	200	250	250	

THE DOMINICAN REPUBLIC
 THE AGUACATE-GUAYABO
 AGRICULTURAL DEVELOPMENT PROJECT
 CHECK GATE
 AUGUST, 1986 No.20
 JAPAN INTERNATIONAL
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