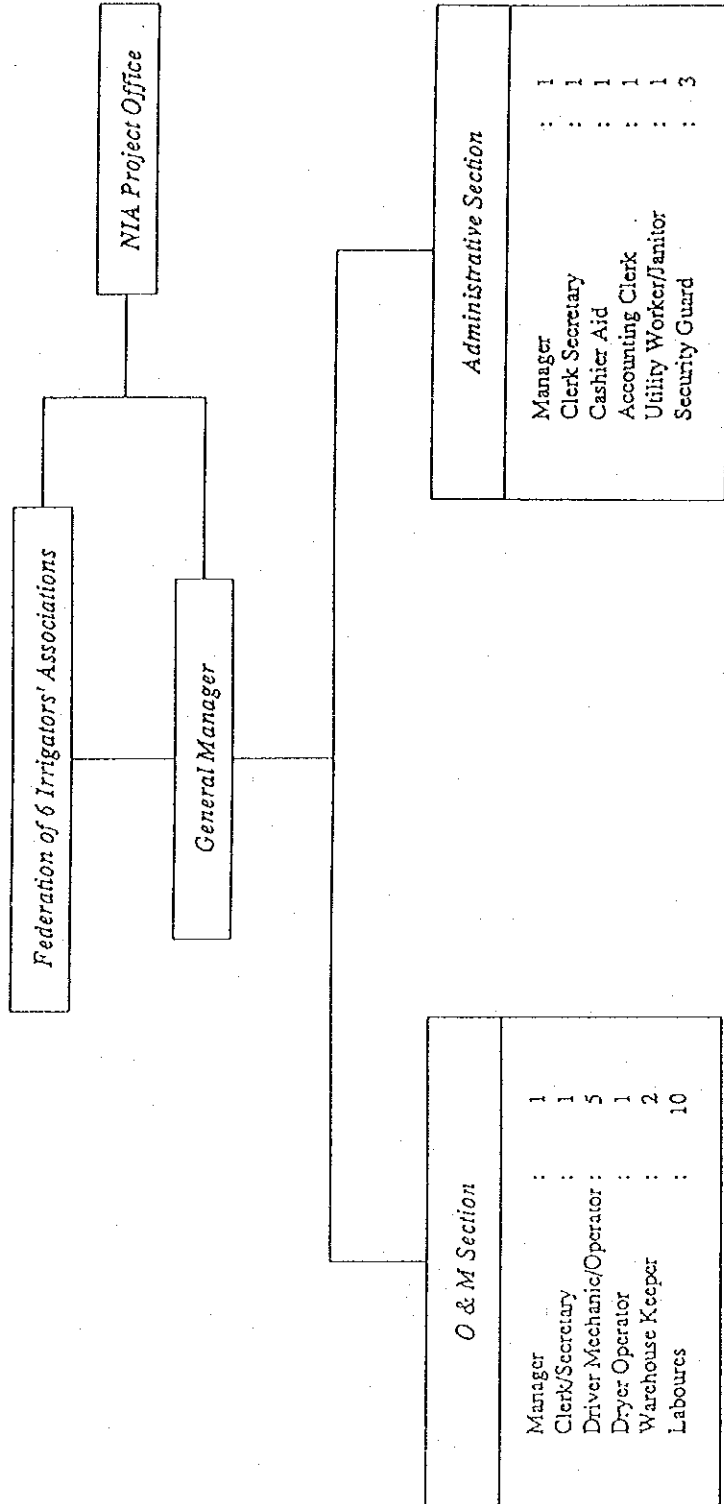


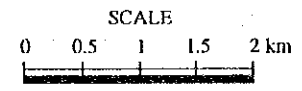
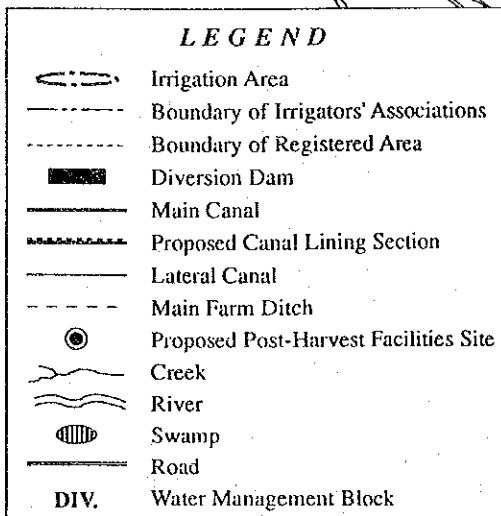
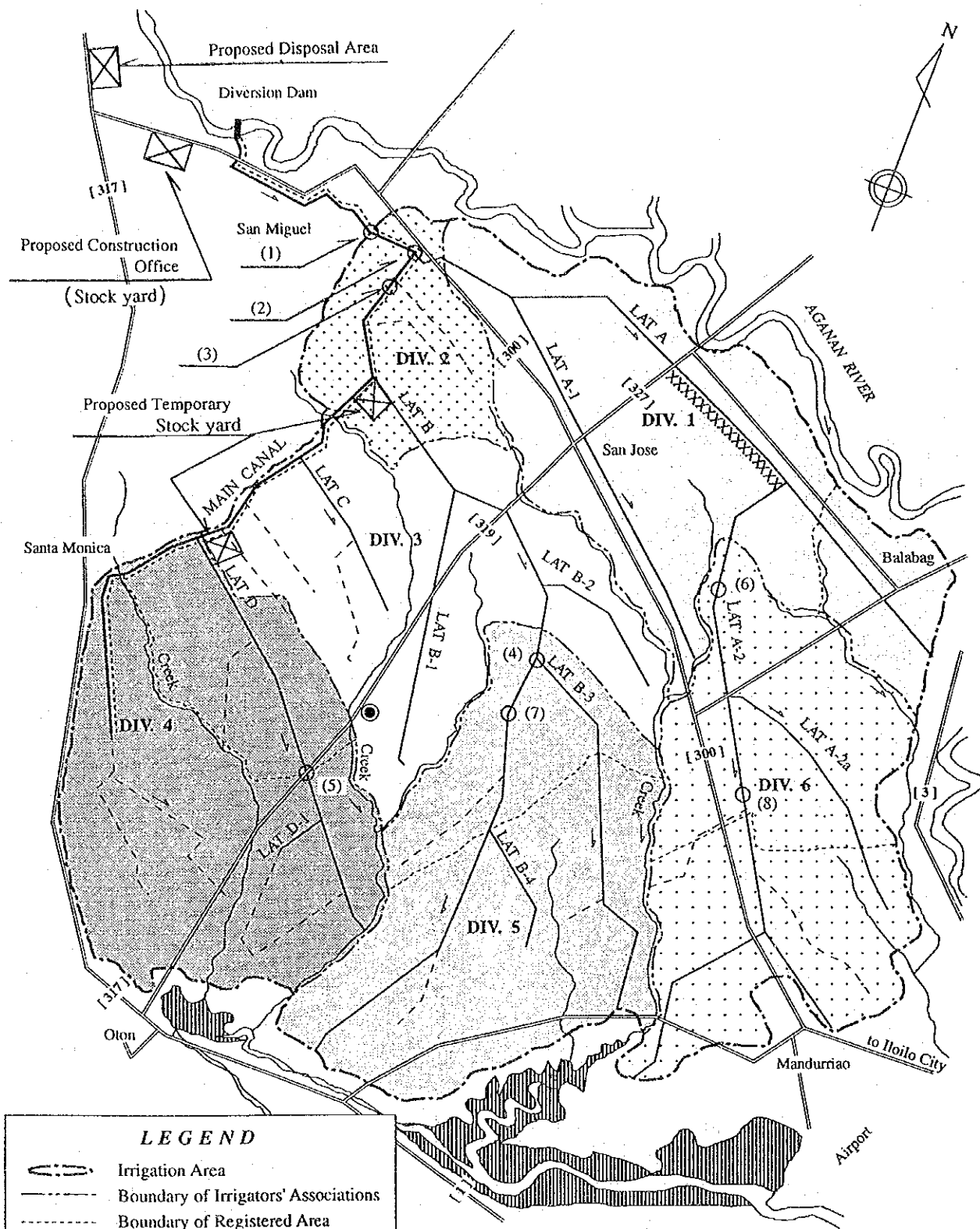
Organization of Post - Harvest Facilities Office



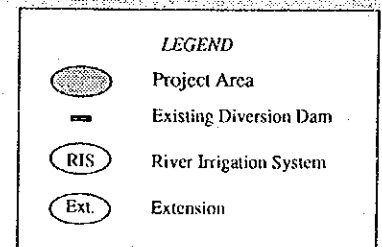
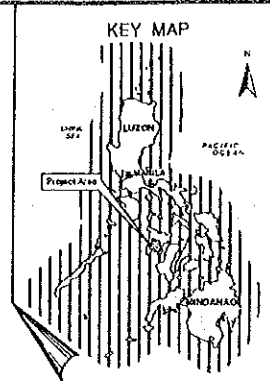
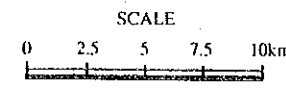
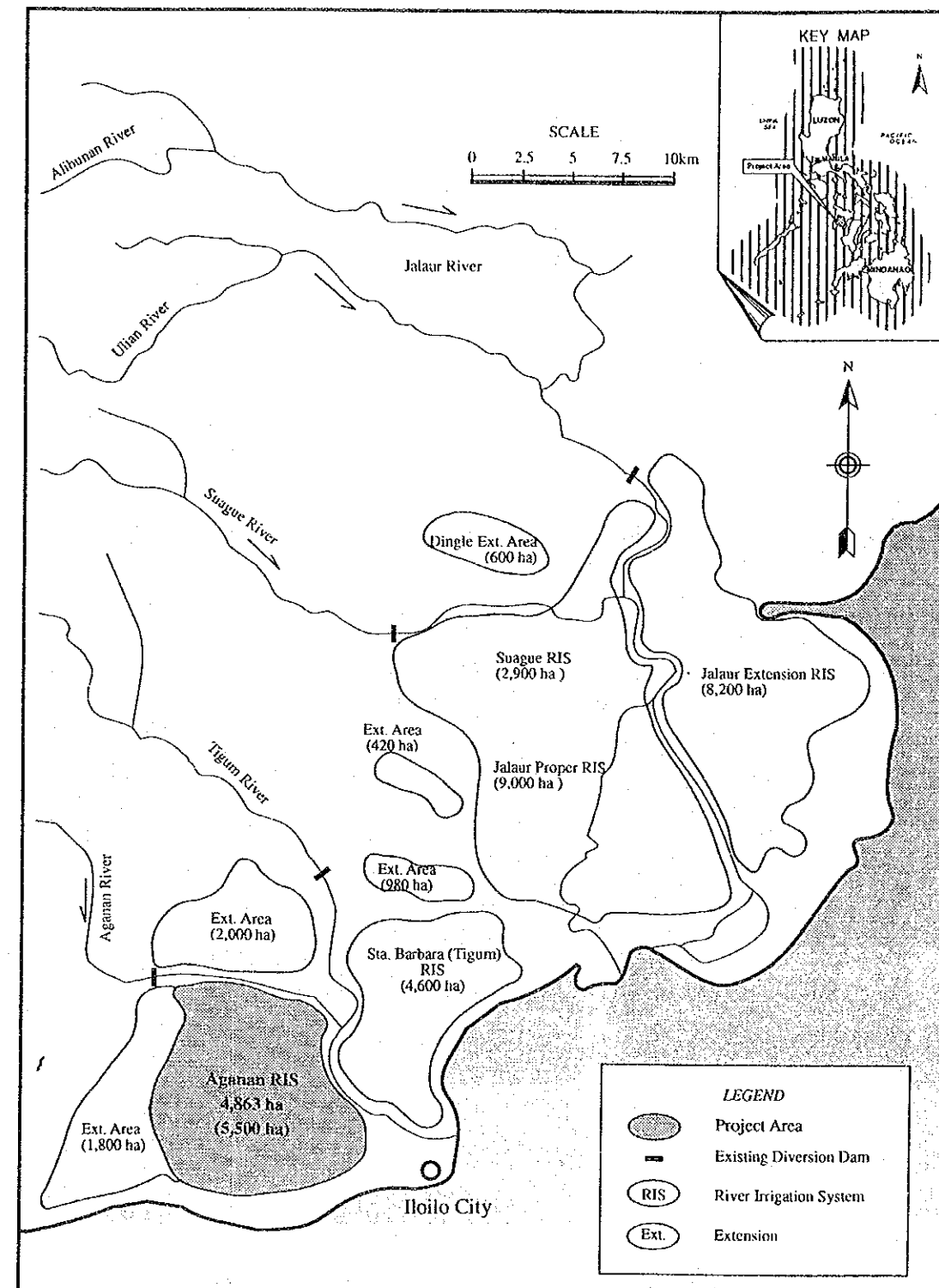
## *DRAWINGS*

## LIST OF DRAWINGS

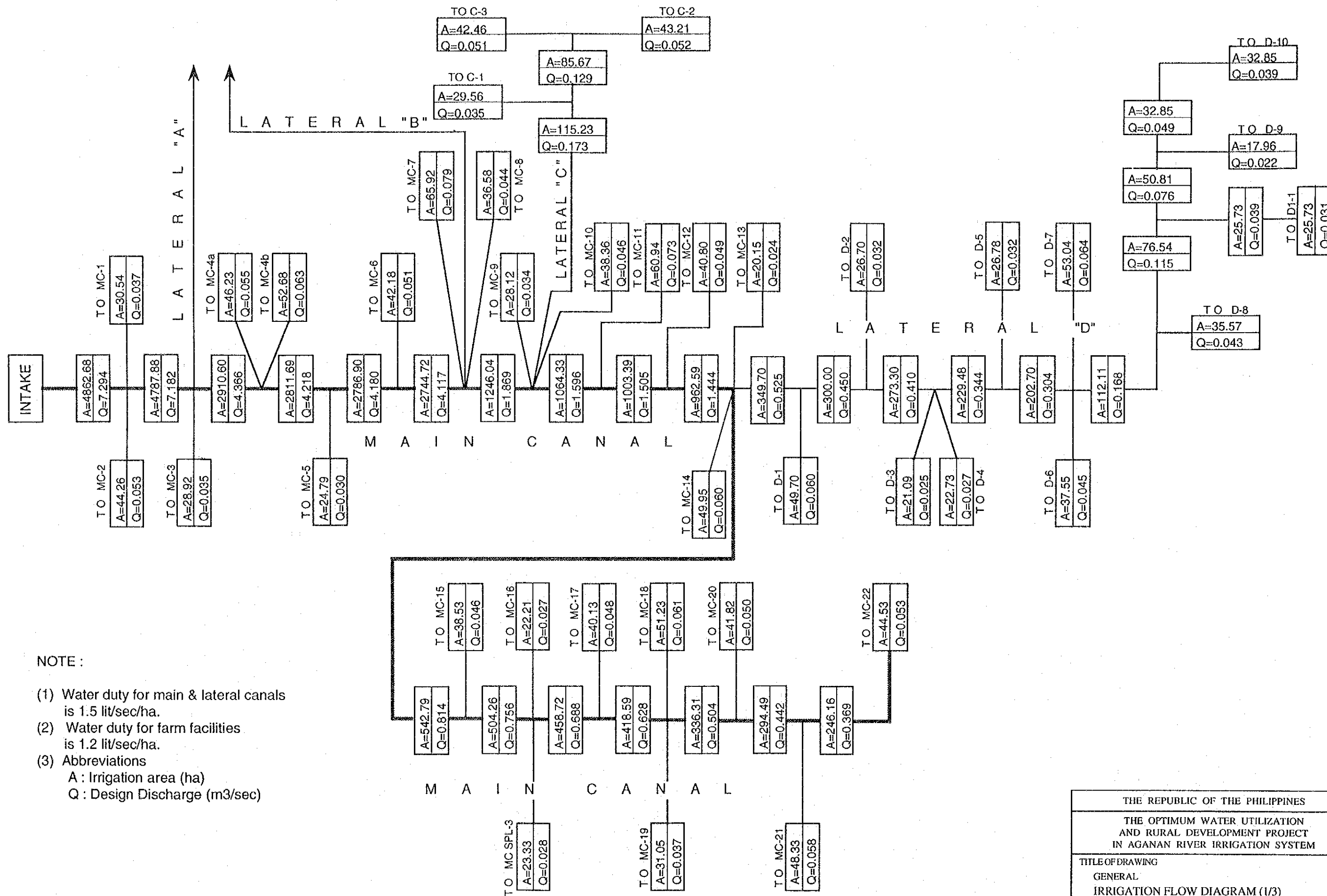
PLATE NO.	DRAWING NO.	TITLE OF DRAWING
1	0001	GENERAL GENERAL PLAN
2	0002	GENERAL IRRIGATION FLOW DIAGRAM (1/3)
3	0003	GENERAL IRRIGATION FLOW DIAGRAM (2/3)
4	0004	GENERAL IRRIGATION FLOW DIAGRAM (3/3)
5	1001	DIVERSION DAM PLAN, PROFILE AND CROSS SECTION
6	1002	DIVERSION DAM APRON AND CONCRETE BLOCKS
7	1003	DIVERSION DAM REVETMENT (1/2)
8	1004	DIVERSION DAM REVETMENT (2/2)
9	1005	DIVERSION DAM ENTRANCE OF THE DIVERSION DAM SITE
10	2001	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (1/9)
11	2002	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (2/9)
12	2003	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (3/9)
13	2004	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (4/9)
14	2005	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (5/9)
15	2006	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (6/9)
16	2007	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (7/9)
17	2008	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (8/9)
18	2009	IRRIGATION CANAL PLAN AND PROFILE OF MAIN CANAL (9/9)
19	3001	CANAL STRUCTURES REPLACEMENT OF CHECK GATE (MAIN CANAL, STA 2+200)
20	3002	CANAL STRUCTURES REPLACEMENT OF COMBINED CHECK AND HEAD GATE (MAIN CANAL, STA 2+773) (1/2)
21	3003	CANAL STRUCTURES REPLACEMENT OF COMBINED CHECK AND HEAD GATE (MAIN CANAL, STA 2+773) (2/2)
22	3004	CANAL STRUCTURES REPLACEMENT OF CHECK GATE (MAIN CANAL, STA 3+106)
23	3005	CANAL STRUCTURES REPLACEMENT OF HEAD GATE (LATERAL B, STA 3+830)
24	3006	CANAL STRUCTURES REPLACEMENT OF CHECK GATE (LATERAL D, STA 2+890)
25	3007	CANAL STRUCTURES REPLACEMENT OF GATES FOR TURNOUTS
26	3008	CANAL STRUCTURES REHABILITATION OF THRESHER CROSSING WITH CHECK (LATERAL A-2, STA 1+540)
27	3009	CANAL STRUCTURES REHABILITATION OF CHECK WITH DROP (LATERAL B, STA 4+510)
28	3010	CANAL STRUCTURES NEW CONSTRUCTION OF THRESHER CROSSING WITH CHECK (LATERAL A-2, STA 3+830)
29	3011	CANAL STRUCTURES STEEL SLIDE GATE
30	4001	POST HARVEST FACILITY GENERAL PLAN
31	4002	POST HARVEST FACILITY MULTIPURPOSE PAVEMENT
32	4003	POST HARVEST FACILITY GLASS HOUSE
33	4004	POST HARVEST FACILITY PADDY WAREHOUSE (1/2)
34	4004	POST HARVEST FACILITY PADDY WAREHOUSE (2/2)
35	4006	POST HARVEST FACILITY ADMINISTRATION OFFICE
36	4007	POST HARVEST FACILITY EQUIPMENT SHED
37	4008	POST HARVEST FACILITY GUARD HOUSE
38	4009	POST HARVEST FACILITY PUMP ROOM
39	4010	POST HARVEST FACILITY ELECTRICAL AND LIGHTING SYSTEM
40	5001	MISCELLANEOUS TYPICAL CROSS SECTIONS OF CANALS AND O&M ROAD, MISCELLANEOUS



- XXX REHABILITATION OF O&M ROAD (LATERAL A, STA 3+270 - STA 4+990)
- (1) REPLACEMENT OF CHECK GATE (MAIN CANAL, STA 2+200)
  - (2) REPLACEMENT OF COMBINED CHECK AND HEAD GATE (MAIN CANAL, STA 2+773)
  - (3) REPLACEMENT OF CHECK GATE (MAIN CANAL, STA 3+106)
  - (4) REPLACEMENT OF HEAD GATE (LATERAL B, STA 3+830)
  - (5) REPLACEMENT OF CHECK GATE (LATERAL D, STA 2+890)
  - (6) REHABILITATION OF THRESHER CROSSING WITH CHECK (LATERAL A-2, STA 1+540)
  - (7) REHABILITATION OF CHECK WITH DROP (LATERAL B, STA 4+510)
  - (8) NEW CONSTRUCTION OF THRESHER CROSSING WITH CHECK (LATERAL A-2, STA 3+830)



THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING GENERAL GENERAL PLAN			
DATE		DRAWING NO.	0001
JAPAN INTERNATIONAL COOPERATION AGENCY			

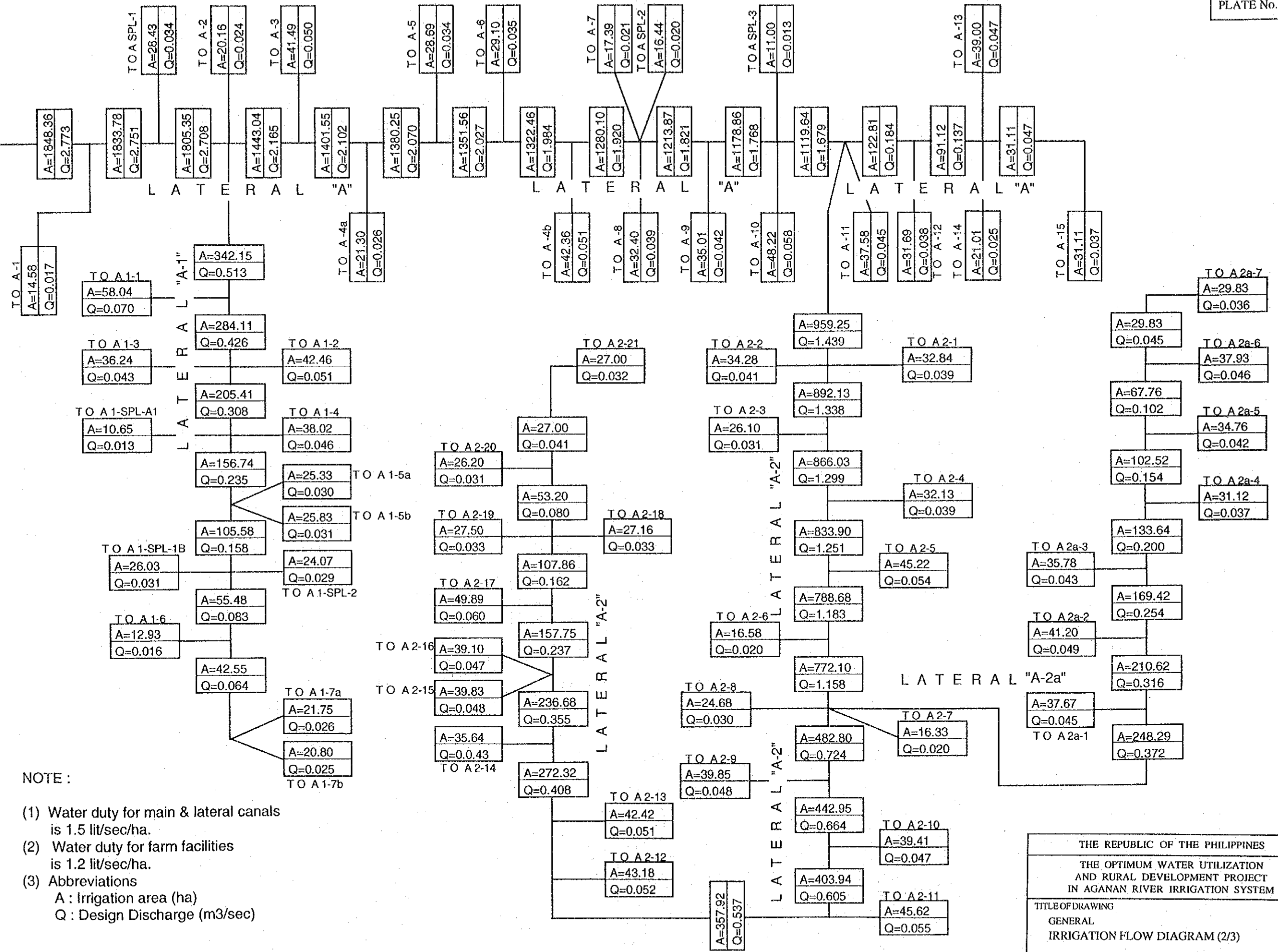


NOTE :

- (1) Water duty for main & lateral canals is 1.5 lit/sec/ha.
- (2) Water duty for farm facilities is 1.2 lit/sec/ha.
- (3) Abbreviations  
A : Irrigation area (ha)  
Q : Design Discharge (m3/sec)

THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING GENERAL IRRIGATION FLOW DIAGRAM (1/3)			
DATE	DRAWING NO.	0002	
JAPAN INTERNATIONAL COOPERATION AGENCY			

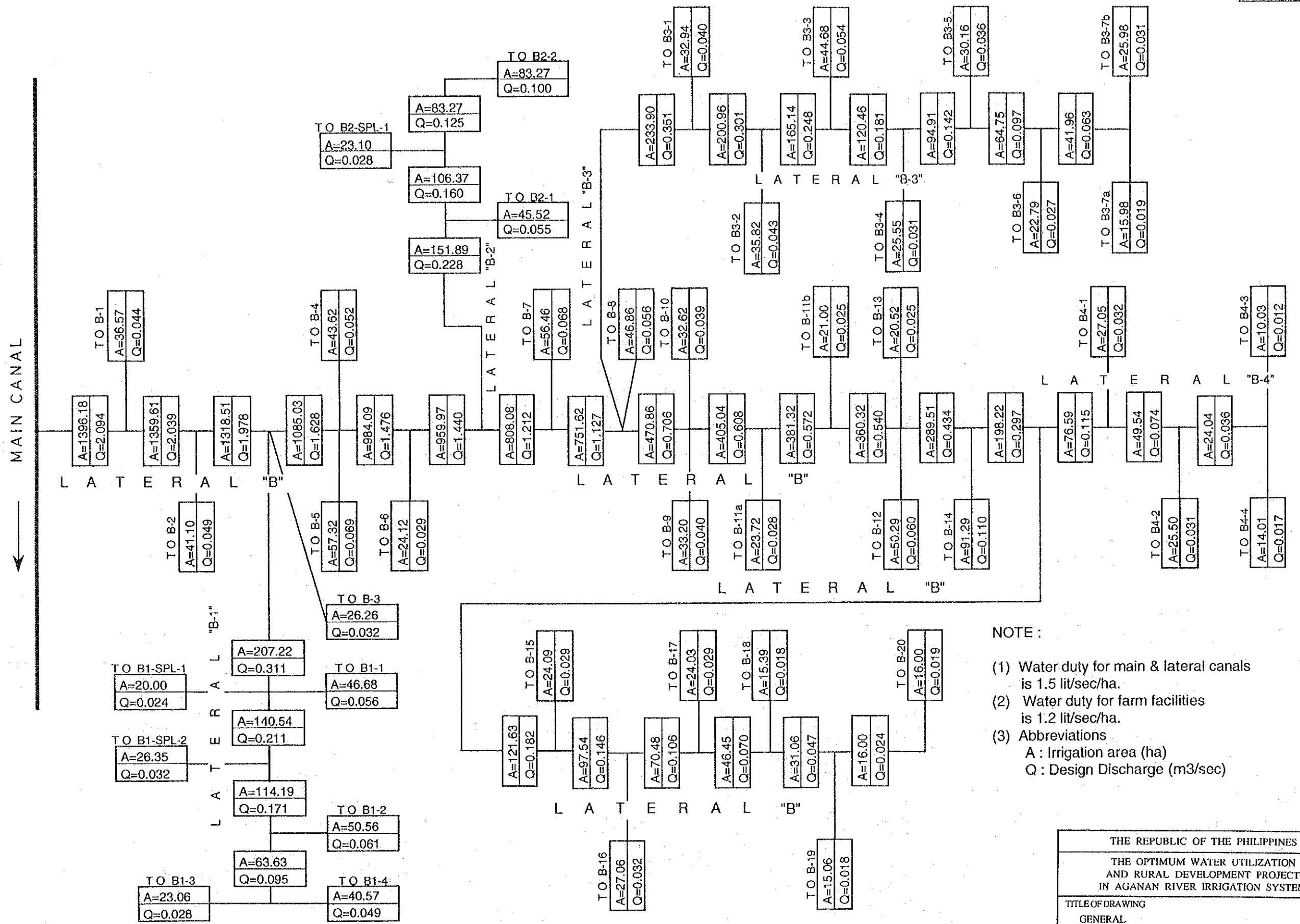
MAIN CANAL



NOTE :

- (1) Water duty for main & lateral canals is 1.5 lit/sec/ha.
- (2) Water duty for farm facilities is 1.2 lit/sec/ha.
- (3) Abbreviations  
 A : Irrigation area (ha)  
 Q : Design Discharge (m3/sec)

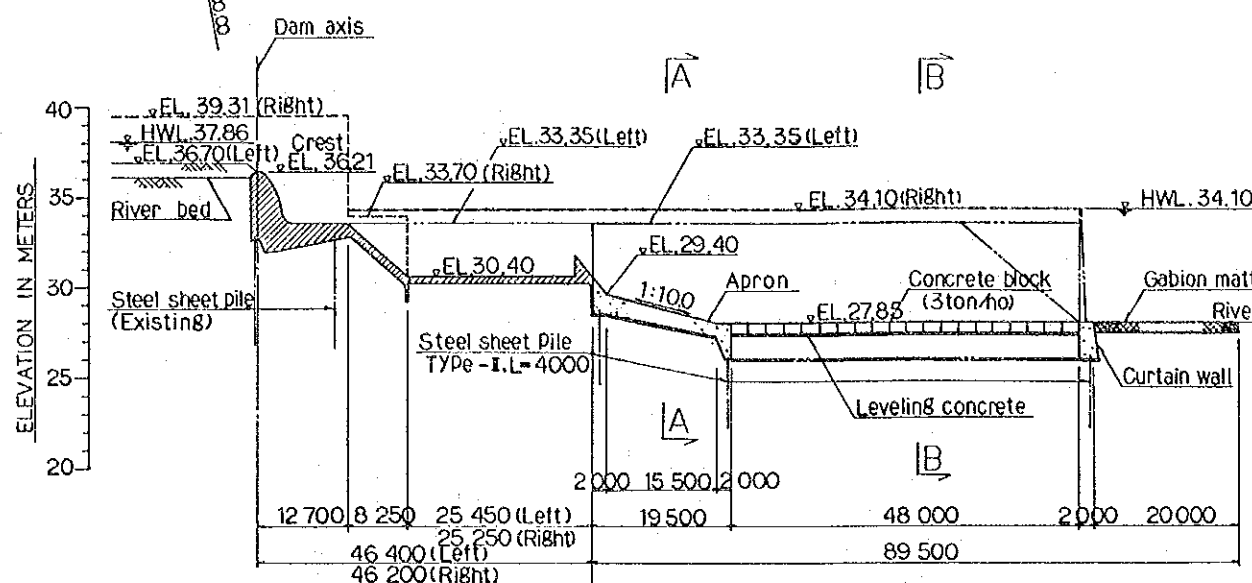
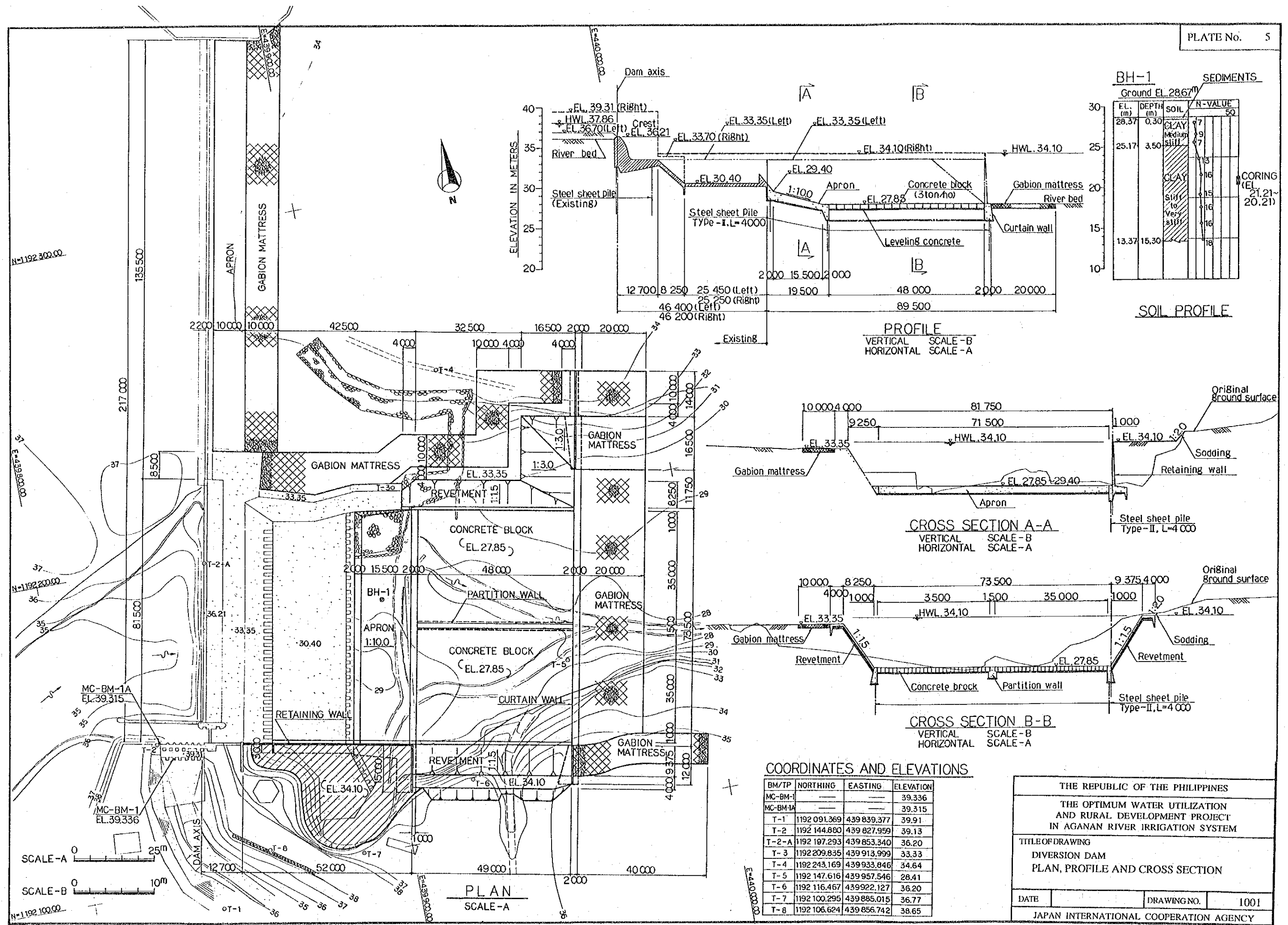
THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING GENERAL IRRIGATION FLOW DIAGRAM (2/3)		
DATE	DRAWING NO.	0003
JAPAN INTERNATIONAL COOPERATION AGENCY		



NOTE :

- (1) Water duty for main & lateral canals is 1.5 lit/sec/ha.
- (2) Water duty for farm facilities is 1.2 lit/sec/ha.
- (3) Abbreviations  
 A : Irrigation area (ha)  
 Q : Design Discharge (m<sup>3</sup>/sec)

THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING GENERAL IRRIGATION FLOW DIAGRAM (3/3)		
DATE	DRAWING NO.	0004
JAPAN INTERNATIONAL COOPERATION AGENCY		

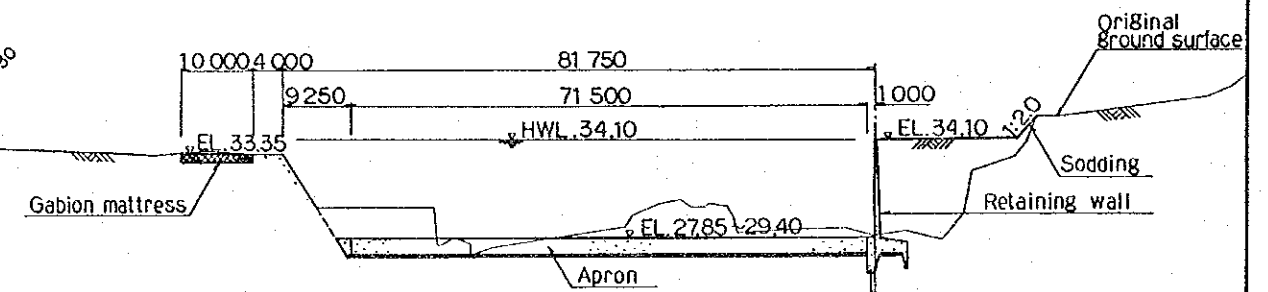


PROFILE  
VERTICAL SCALE - B  
HORIZONTAL SCALE - A

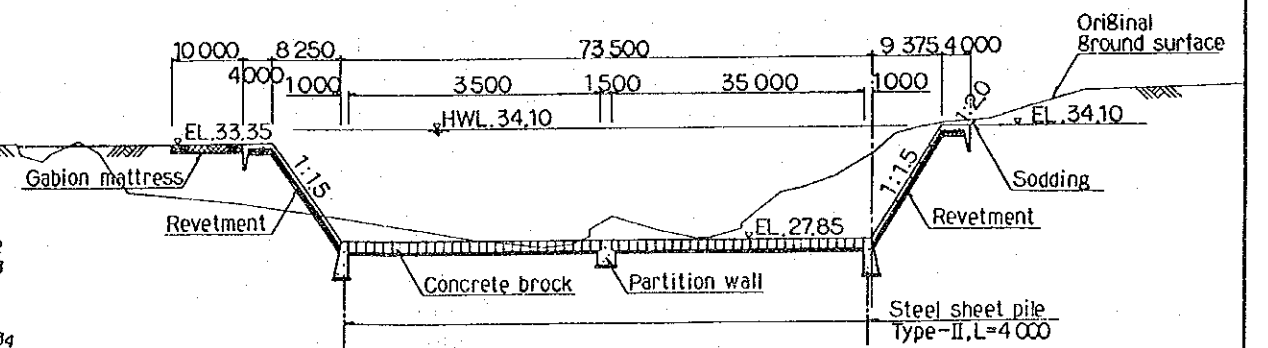
BH-1				SEDIMENTS	
EL. (m)	DEPTH (m)	SOIL	N-VALUE		
28.37	0.30	CLAY	7		
25.17	3.50	CLAY	9		
		CLAY	13		
		CLAY	16		
		CLAY	15		
		CLAY	16		
		CLAY	18		

Ground EL. 28.67m  
CORING (EL. 21.21-20.21)

SOIL PROFILE



CROSS SECTION A-A  
VERTICAL SCALE - B  
HORIZONTAL SCALE - A



CROSS SECTION B-B  
VERTICAL SCALE - B  
HORIZONTAL SCALE - A

COORDINATES AND ELEVATIONS

BM/TP	NORTHING	EASTING	ELEVATION
MC-BM-1			39.336
MC-BM-1A			39.315
T-1	1192 091.369	439 839.377	39.91
T-2	1192 144.880	439 827.959	39.13
T-2-A	1192 197.293	439 853.340	36.20
T-3	1192 209.835	439 913.999	33.33
T-4	1192 243.169	439 933.846	34.64
T-5	1192 147.616	439 957.546	28.41
T-6	1192 116.467	439 922.127	36.20
T-7	1192 100.295	439 885.015	36.77
T-8	1192 106.624	439 856.742	38.65

THE REPUBLIC OF THE PHILIPPINES

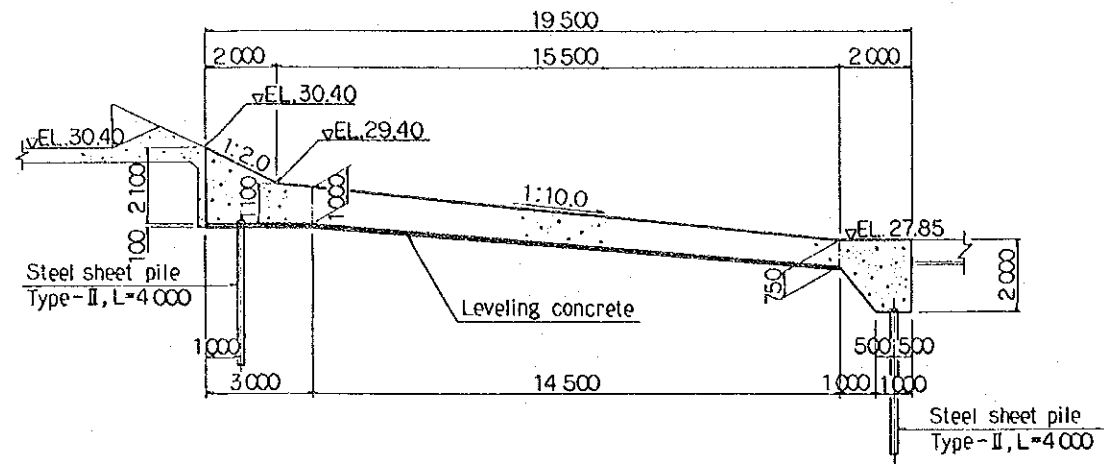
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
DIVERSION DAM  
PLAN, PROFILE AND CROSS SECTION

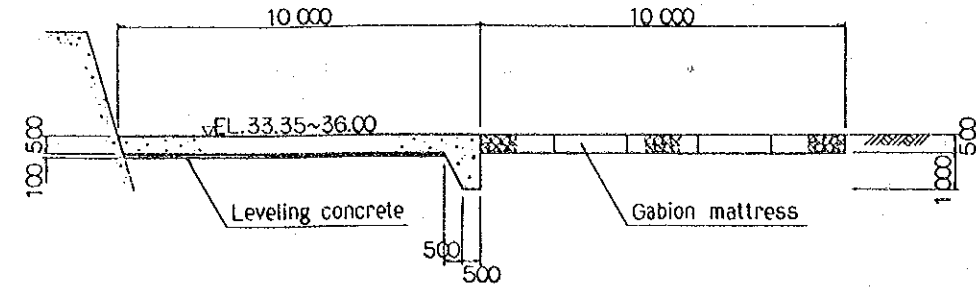
DATE	DRAWING NO.	1001
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JAPAN INTERNATIONAL COOPERATION AGENCY

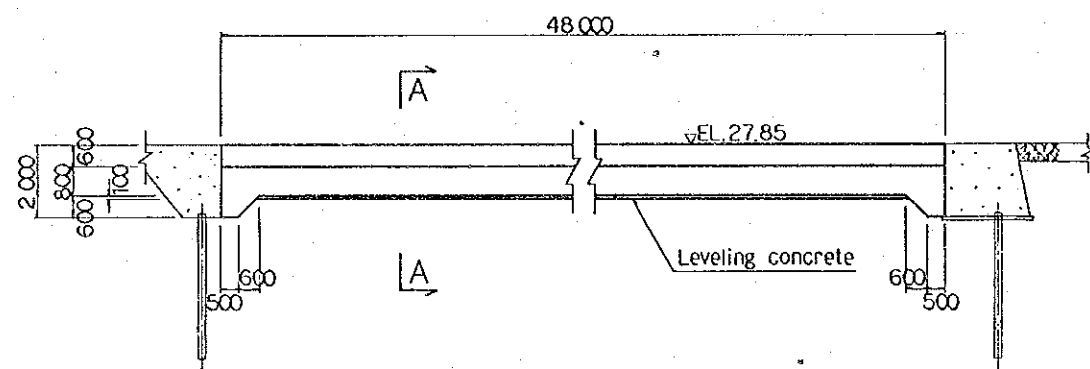




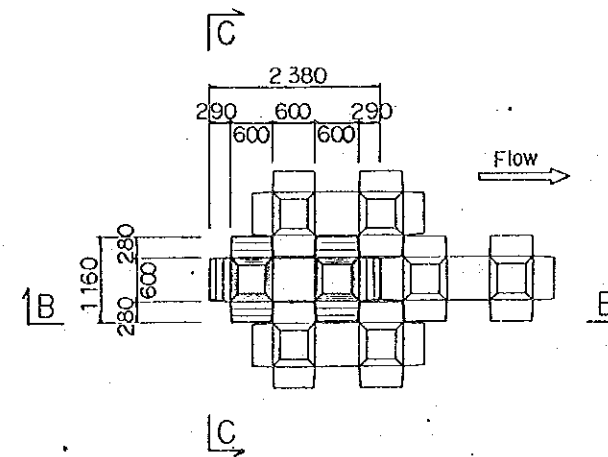
APRON (RIGHT)  
SCALE - A



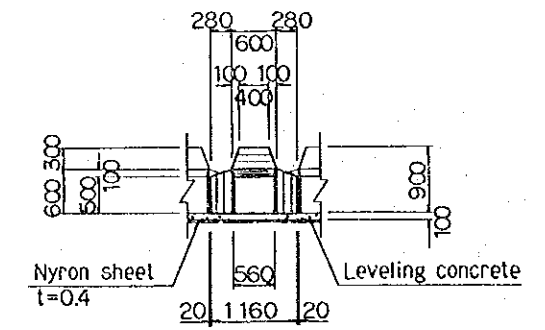
APRON (LEFT)  
SCALE - A



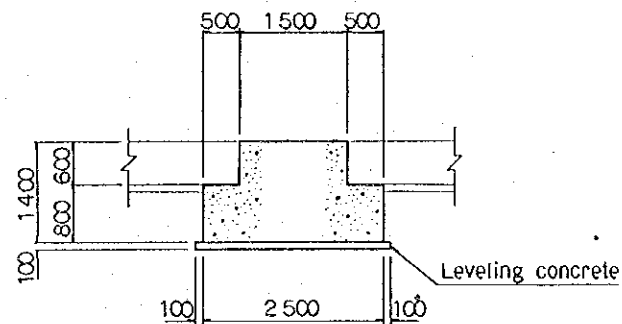
PARTITION WALL  
SCALE - A



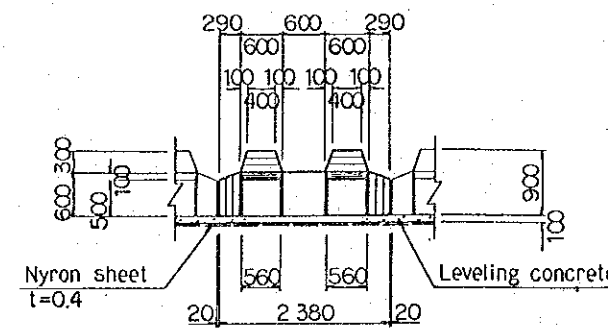
CONCRETE BLOCK  
SCALE - B



SECTION C-C  
SCALE - B



SECTION A-A  
SCALE - B

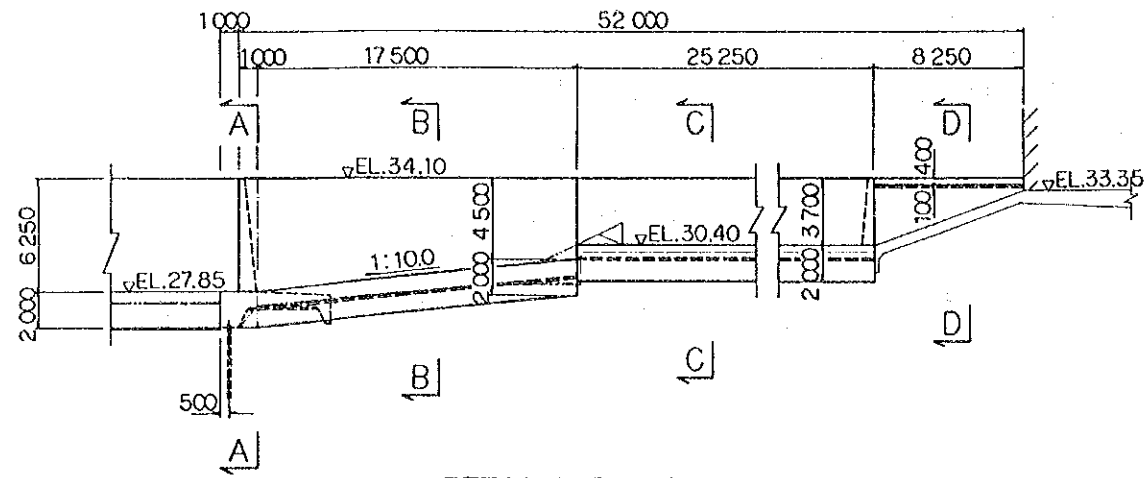


SECTION B-B  
SCALE - B

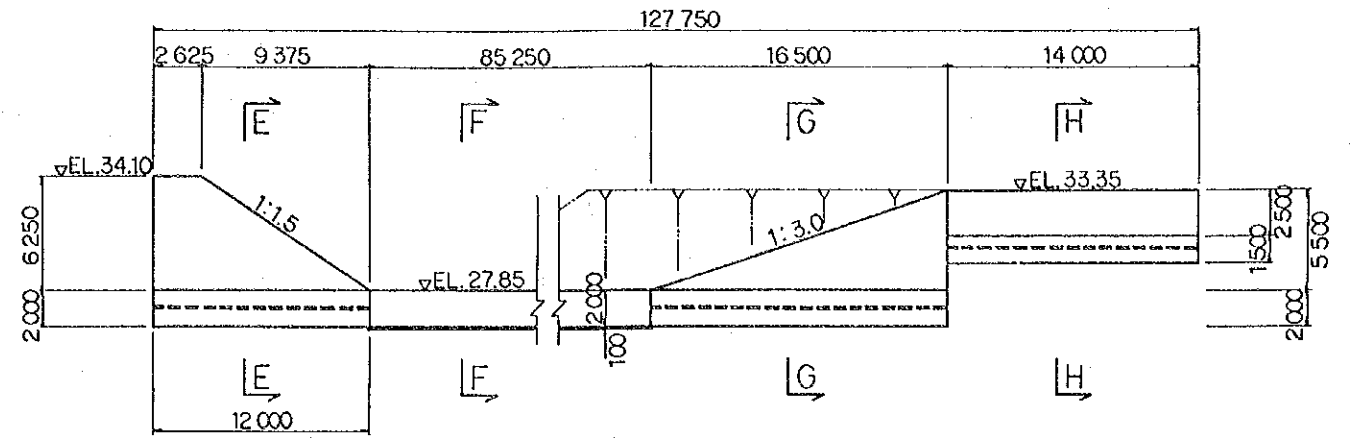
SCALE-A 0 5m

SCALE-B 0 3m

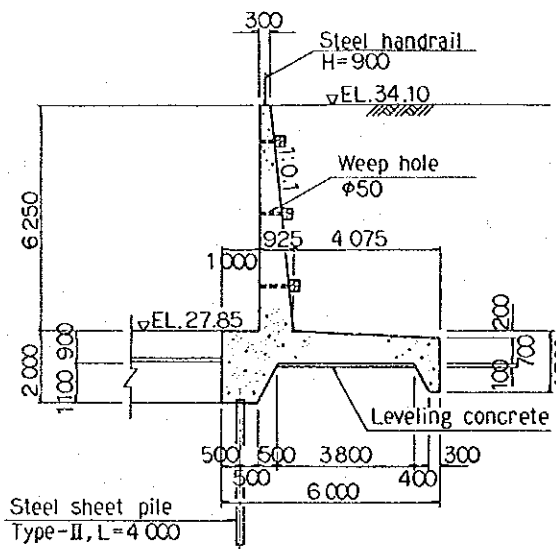
THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING DIVERSION DAM APRON AND CONCRETE BLOCKS			
DATE		DRAWING NO.	1002
JAPAN INTERNATIONAL COOPERATION AGENCY			



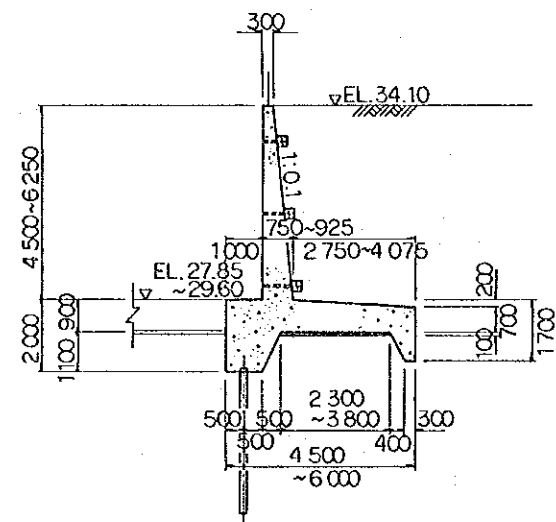
RETAINING WALL  
SCALE - A



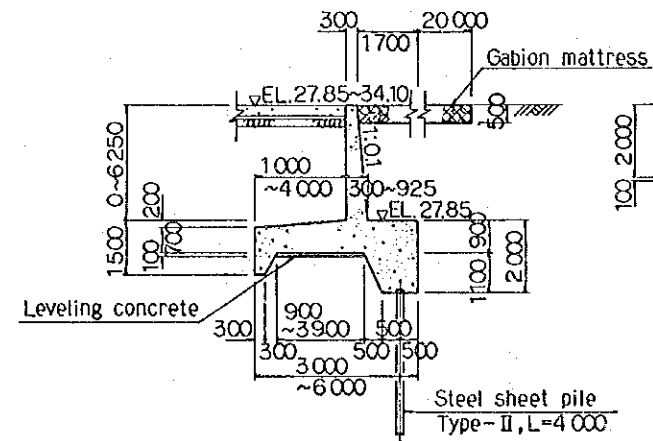
CURTAIN WALL  
SCALE - A



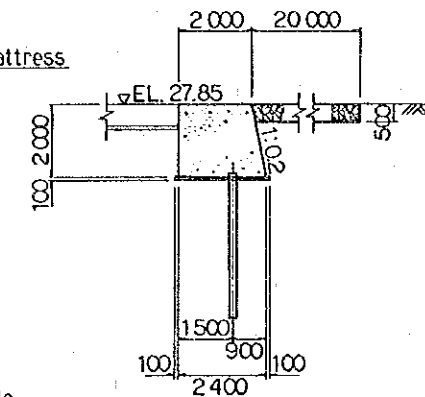
SECTION A-A  
SCALE - B



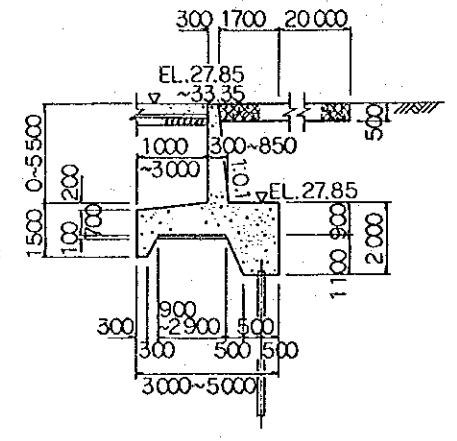
SECTION B-B  
SCALE - B



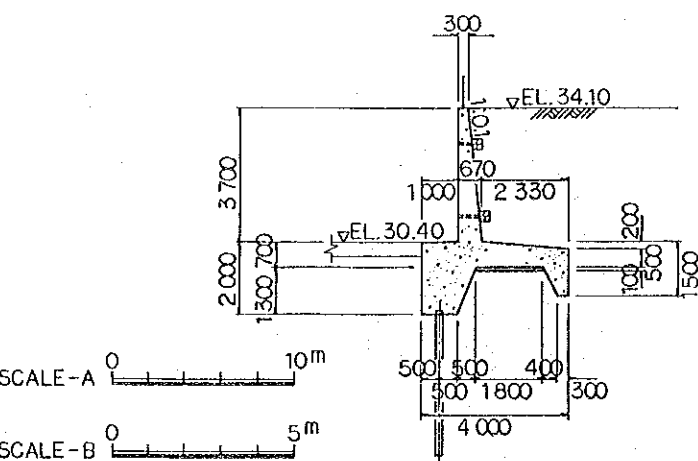
SECTION E-E  
SCALE - B



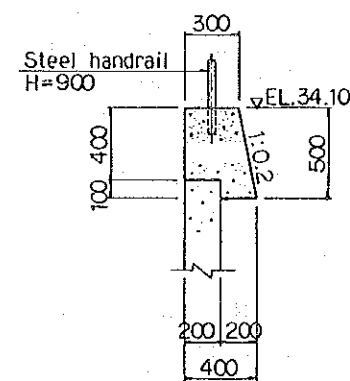
SECTION F-F  
SCALE - B



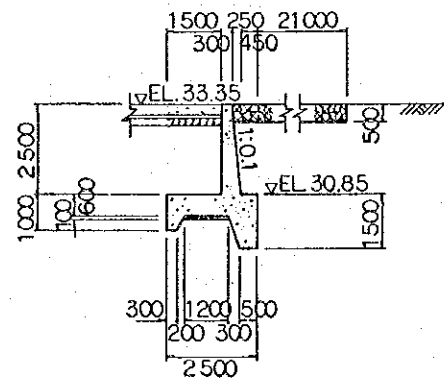
SECTION G-G  
SCALE - B



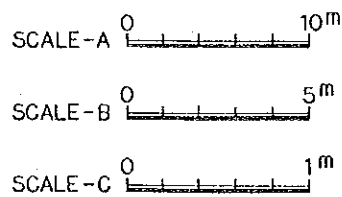
SECTION C-C  
SCALE - B



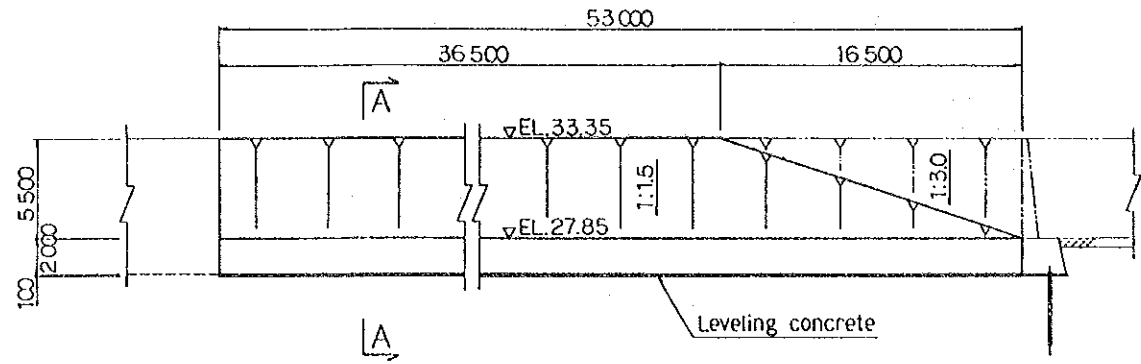
SECTION D-D  
SCALE - C



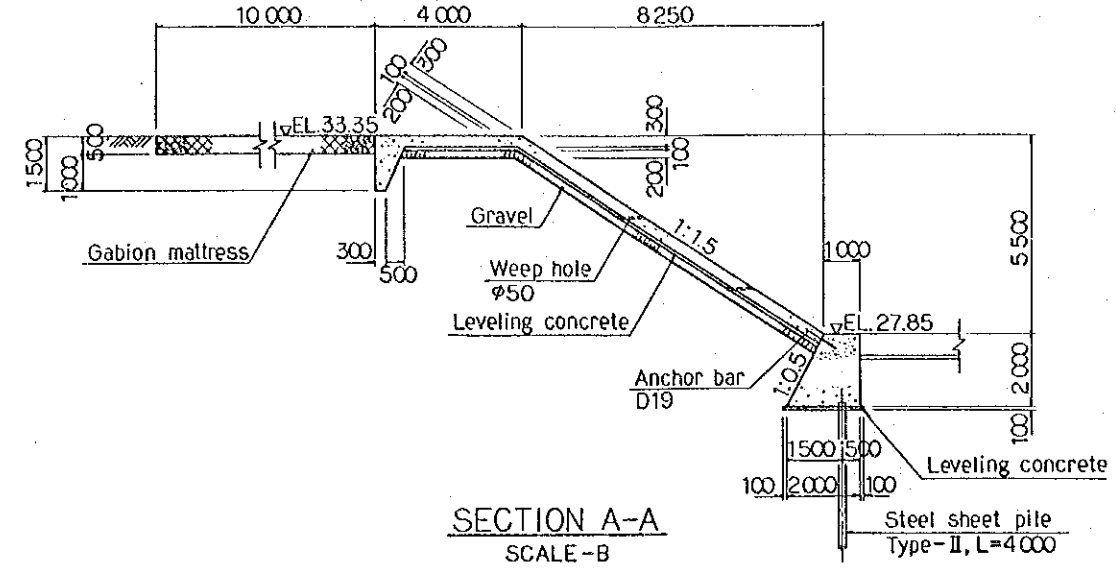
SECTION H-H  
SCALE - B



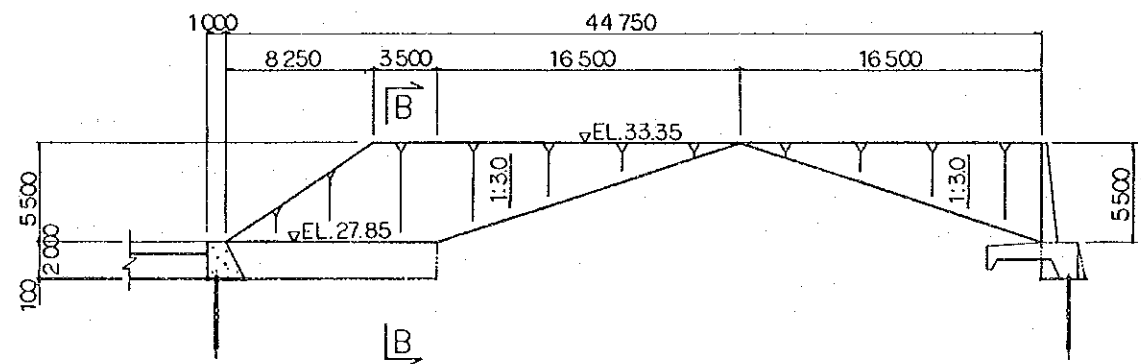
THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING DIVERSION DAM REVTMENT (1/2)			
DATE		DRAWING NO.	1003
JAPAN INTERNATIONAL COOPERATION AGENCY			



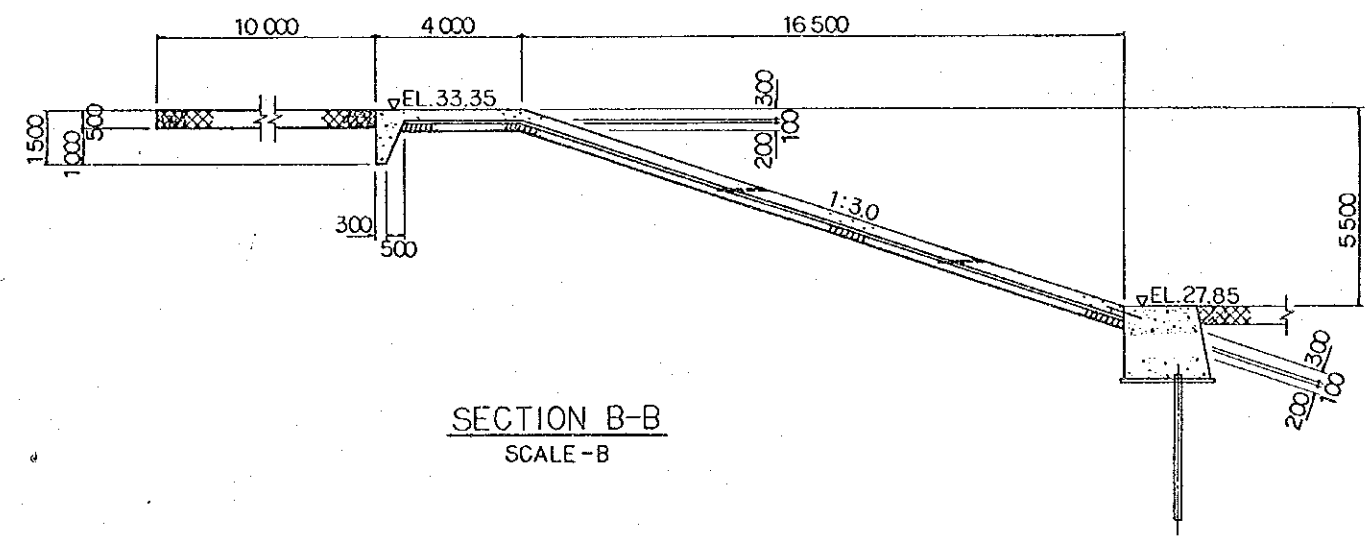
REVETMENT (LEFT)  
SCALE - A



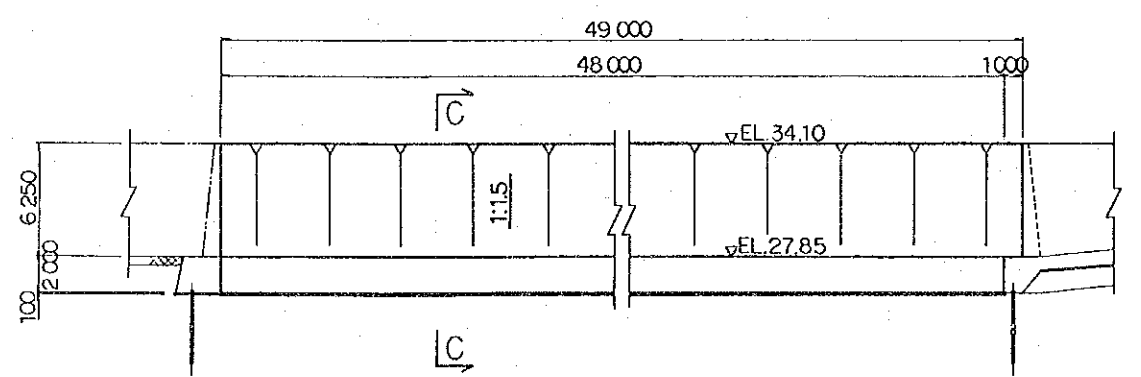
SECTION A-A  
SCALE - B



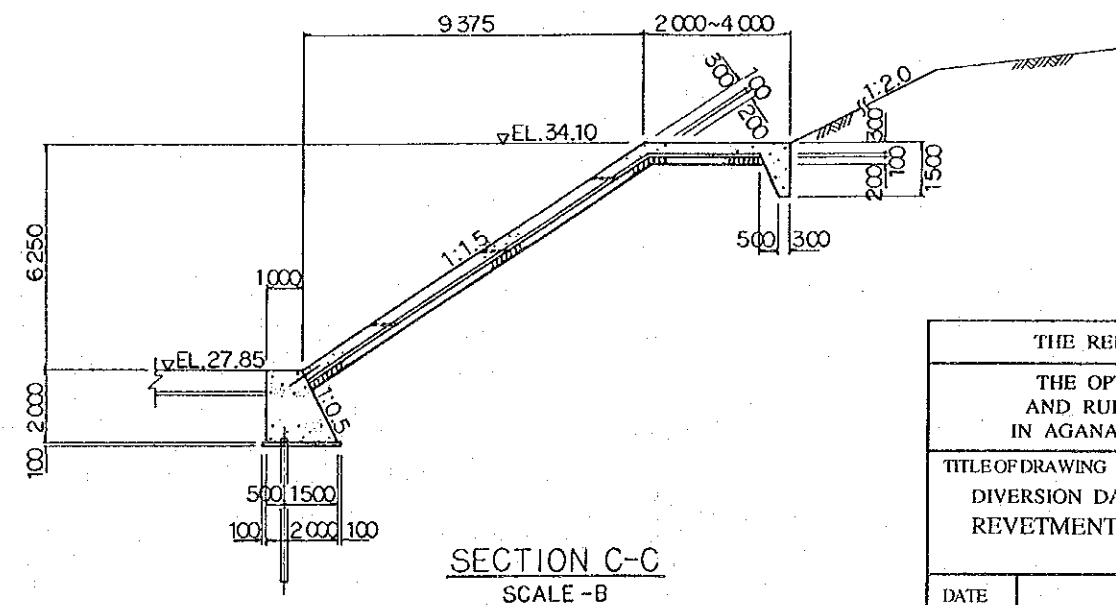
REVETMENT (LEFT)  
SCALE - A



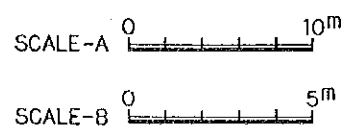
SECTION B-B  
SCALE - B



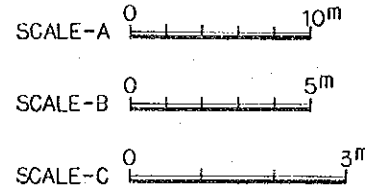
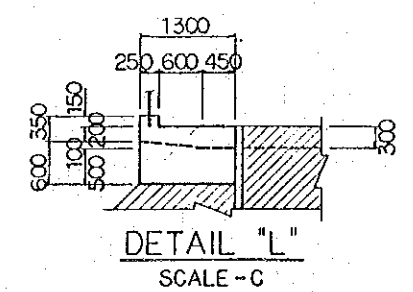
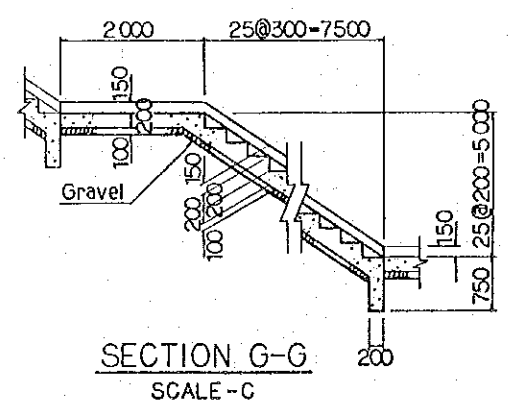
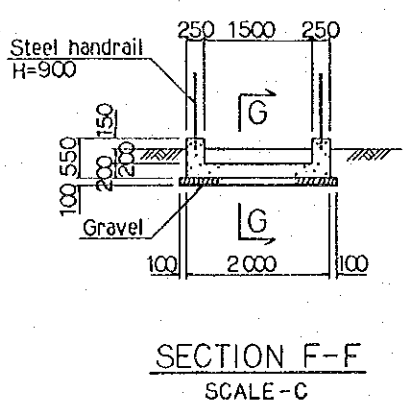
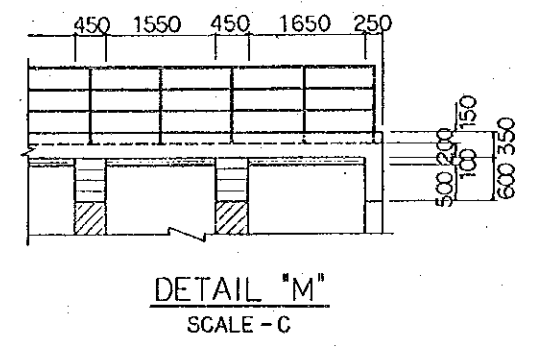
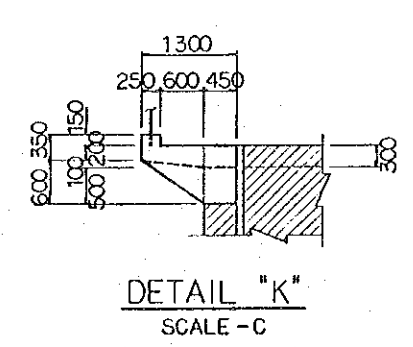
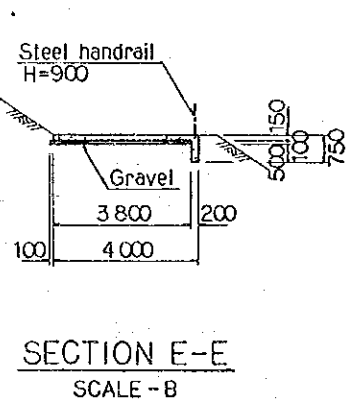
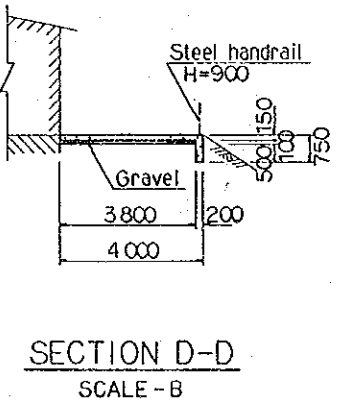
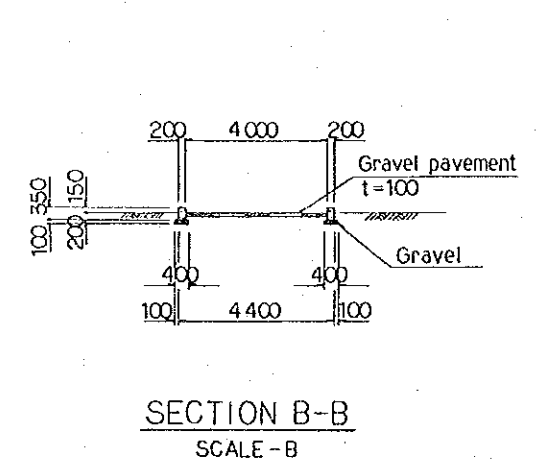
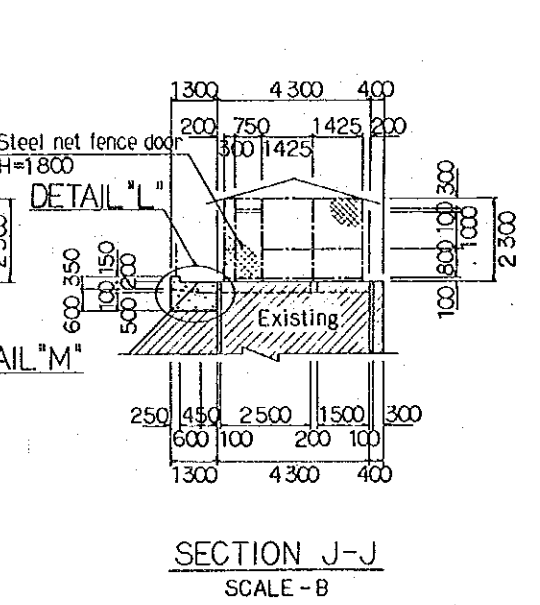
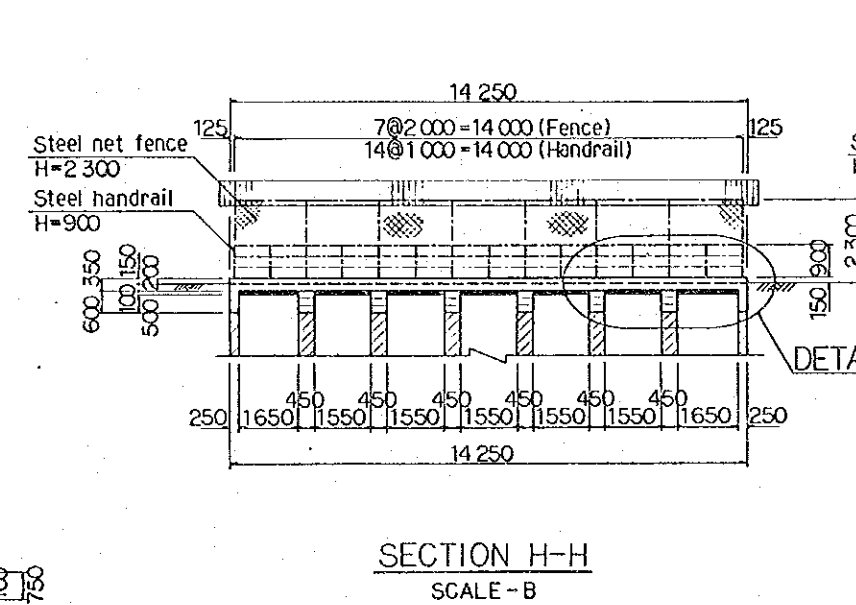
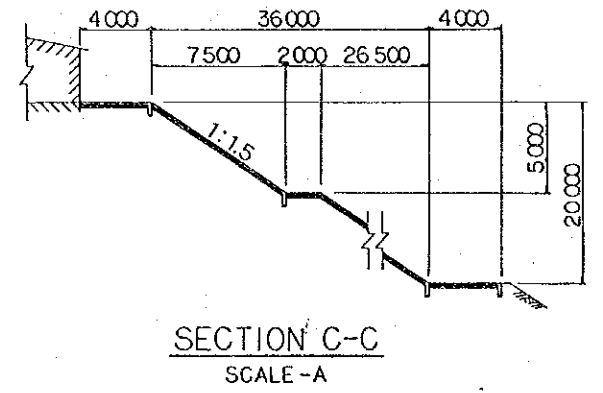
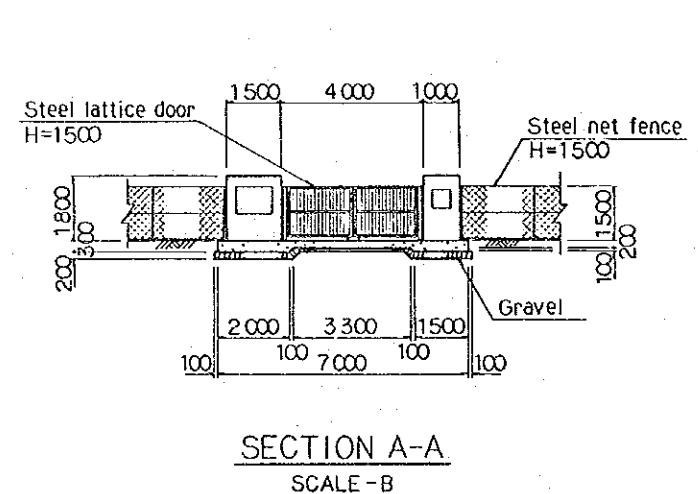
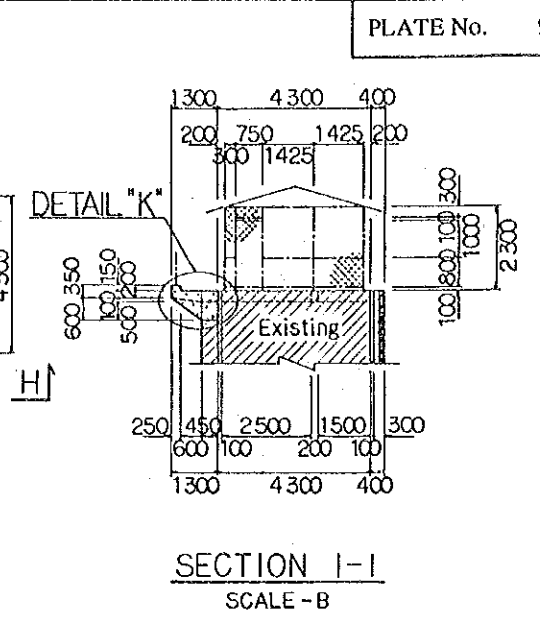
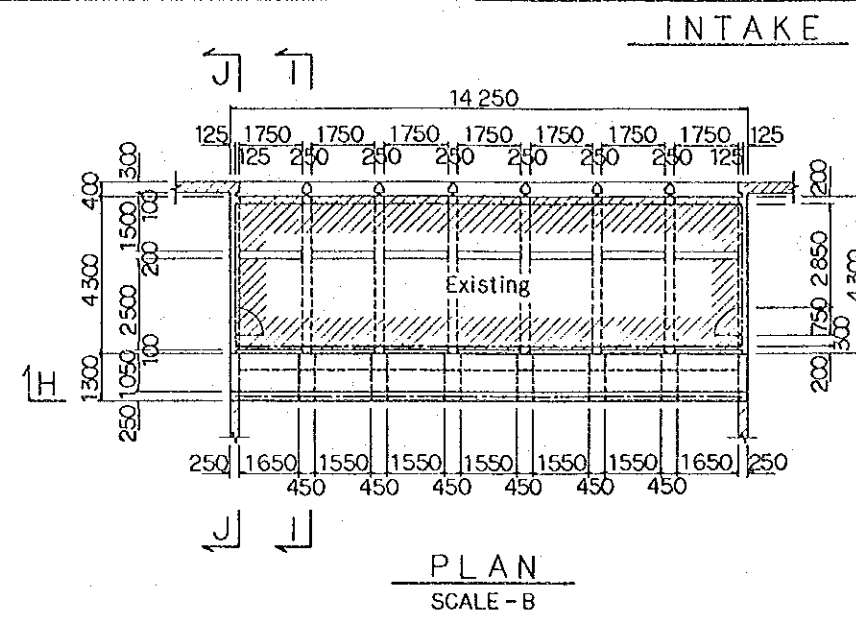
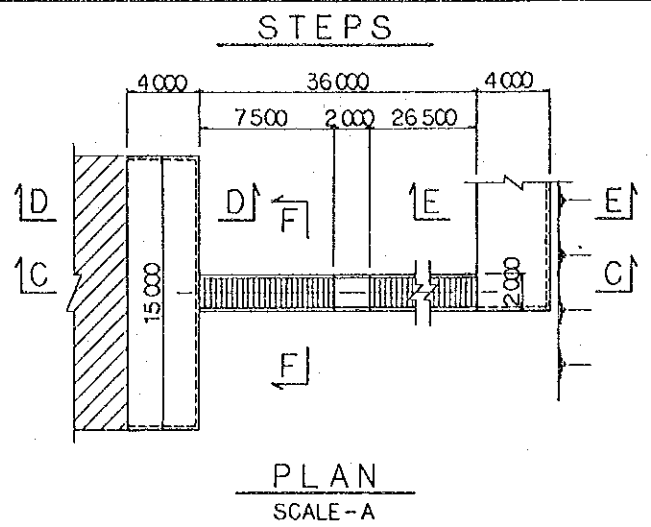
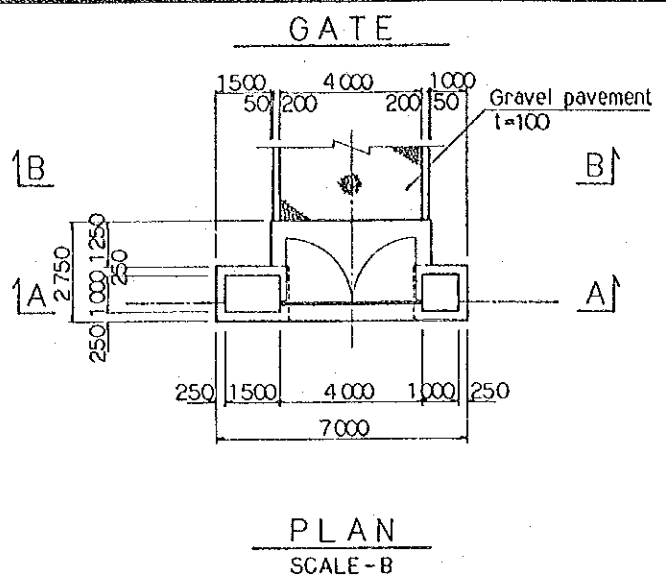
REVETMENT (RIGHT)  
SCALE - A



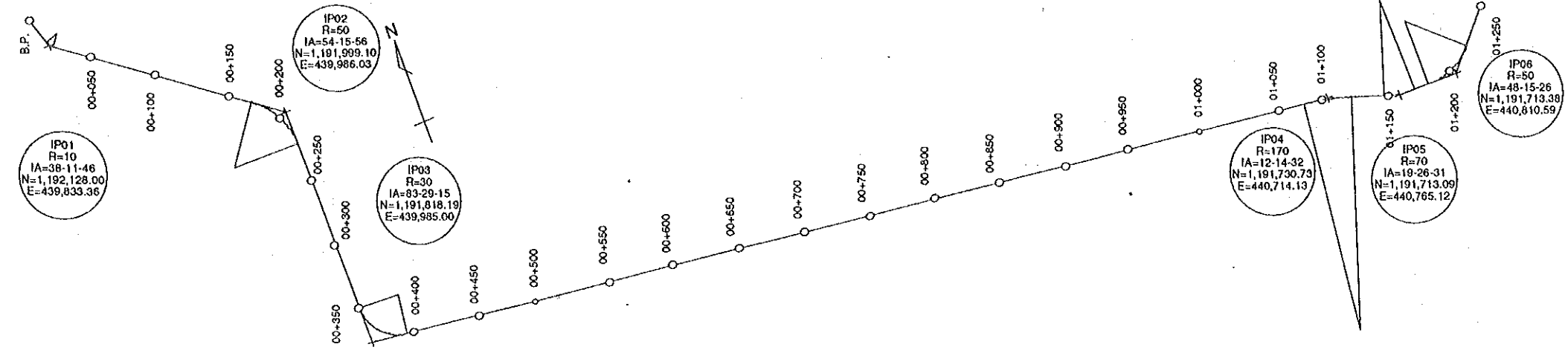
SECTION C-C  
SCALE - B



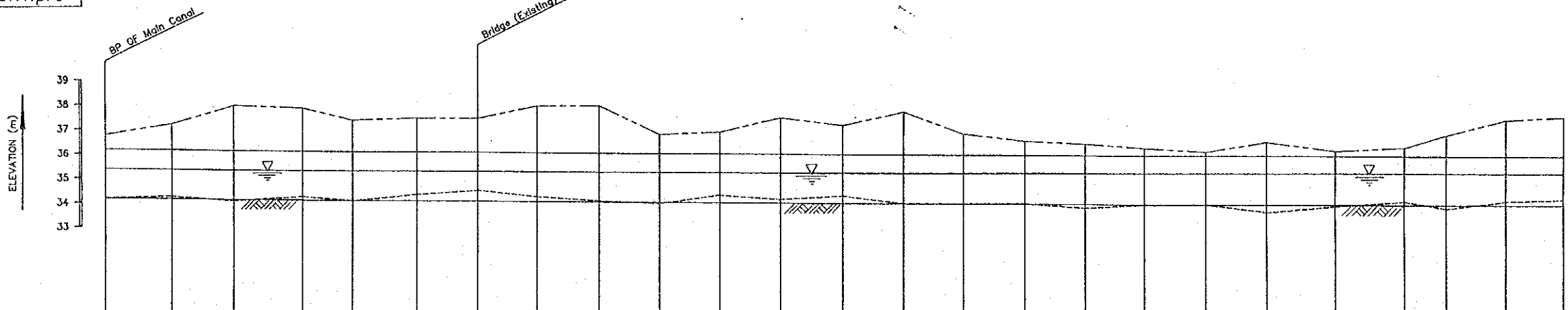
THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING DIVERSION DAM REVETMENT (2/2)		
DATE	DRAWING NO.	1004
JAPAN INTERNATIONAL COOPERATION AGENCY		



THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING			
DIVERSION DAM			
ENTRANCE OF THE DIVERSION DAM SITE			
DATE	DRAWING NO.	1005	
JAPAN INTERNATIONAL COOPERATION AGENCY			



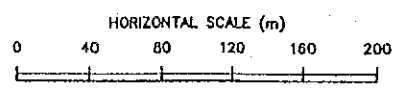
mccfl.pro



	TYPE I-1										TYPE I-2														
	Q=7.294 m <sup>3</sup> /s l=1/3,600 B=6.0 m										Q=7.294 m <sup>3</sup> /s l=1/3,600 B=6.0 m														
PROPOSED CANAL BANK ELEVATION	36.18	36.17	36.15	36.14	36.12	36.11	36.10	36.08	36.07	36.05	36.04	36.03	36.01	36.00	35.98	35.97	35.96	35.94	35.93	35.92	35.90	35.88	35.87	35.85	
PROPOSED WATER SURFACE ELEVATION	35.39	35.37	35.36	35.34	35.33	35.32	35.3	35.29	35.28	35.27	35.26	35.25	35.24	35.23	35.22	35.21	35.20	35.19	35.18	35.17	35.16	35.15	35.14	35.13	
PROPOSED CANAL BASE ELEVATION	34.18	34.17	34.15	34.14	34.12	34.11	34.10	34.08	34.07	34.05	34.04	34.03	34.01	34.00	33.98	33.97	33.96	33.94	33.93	33.92	33.90	33.88	33.87	33.85	
EXISTING CANAL BANK ELEVATION	36.77	37.23	38.00	37.91	37.41	37.49	37.48	37.89	38.01	36.83	36.93	37.51	37.20	37.75	36.84	36.54	36.43	36.25	36.09	36.46	36.10	36.23	36.74	37.35	37.47
EXISTING CANAL BASE ELEVATION	34.18	34.27	34.10	34.28	34.11	34.37	34.53	34.28	34.12	34.01	34.35	34.18	34.32	34.01	33.99	33.99	33.81	33.93	33.93	33.51	33.84	34.02	33.72	34.02	34.09
REDUCED CANAL DISTANCE	0.00	53.90	103.70	161.20	202.80	254.60	304.50	354.00	404.20	454.20	504.10	554.00	603.90	653.90	703.60	753.50	803.50	853.40	903.10	953.00	1010.45	1067.90	1102.10	1151.40	1201.50
CANAL DISTANCE	0.00	53.90	99.80	153.70	202.80	254.60	299.10	349.10	399.20	449.40	499.50	549.50	599.40	649.30	699.10	748.90	798.60	848.00	897.10	945.90	1010.45	1067.90	1102.10	1151.40	1201.50
SURVEY STATION NO.	0+000.00	0+050.00	0+100.00	0+150.00	0+200.00	0+250.00	0+300.00	0+350.00	0+400.00	0+450.00	0+500.00	0+550.00	0+600.00	0+650.00	0+700.00	0+750.00	0+800.00	0+850.00	0+900.00	0+950.00	1+000.00	1+050.00	1+100.00	1+150.00	1+200.00

LEGEND

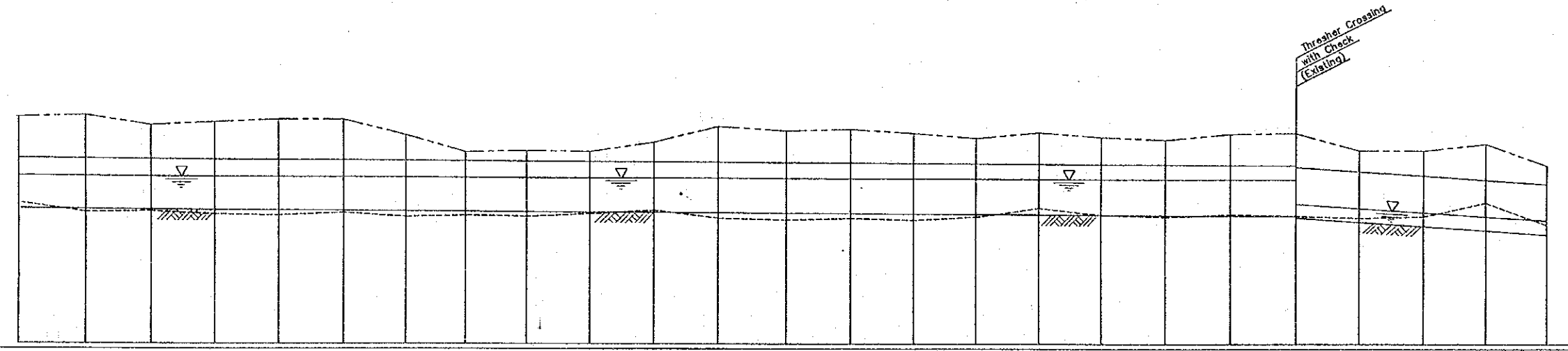
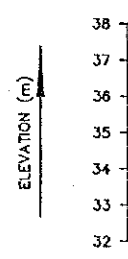
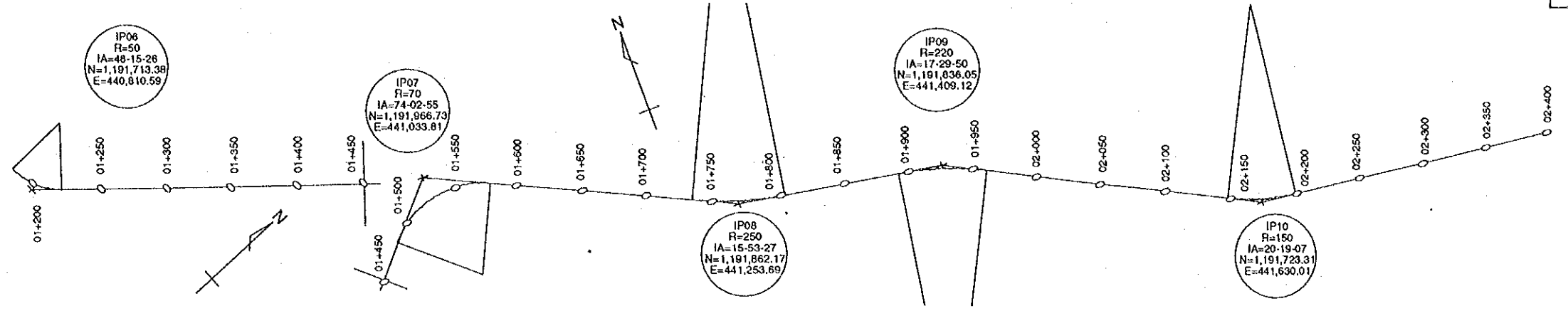
- PROPOSED WATER SURFACE
- PROPOSED CANAL BANK
- PROPOSED CANAL BASE
- EXISTING CANAL BANK
- EXISTING CANAL BASE



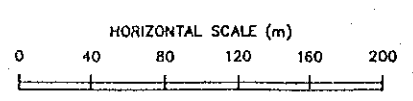
THE REPUBLIC OF THE PHILIPPINES  
 THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT  
 IN AGANAN RIVER IRRIGATION SYSTEM  
 TITLE OF DRAWING  
 IRRIGATION CANAL  
 PLAN AND PROFILE OF MAIN CANAL (1/9)

DATE	DRAWING NO.	2001
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JAPAN INTERNATIONAL COOPERATION AGENCY



SURVEY STATION NO.	TYPE I-2				TYPE I-2																				
	Q=7.294 m <sup>3</sup> /s L=1/3,600 B=6.0 m																								
1+200.00	1+250.00	1+300.00	1+350.00	1+400.00	1+450.00	1+500.00	1+550.00	1+600.00	1+650.00	1+700.00	1+750.00	1+800.00	1+850.00	1+900.00	1+950.00	2+000.00	2+050.00	2+100.00	2+150.00	2+200.00	2+250.00	2+300.00	2+350.00	2+400.00	
REDUCED CANAL DISTANCE	1201.50	1254.50	1304.70	1354.70	1405.10	1455.10	1503.50	1550.40	1598.30	1648.10	1698.20	1748.60	1800.60	1850.50	1900.20	1948.70	1998.30	2048.10	2098.10	2148.20	2200.50	2250.60	2300.50	2350.40	2400.30
CANAL DISTANCE	50.10	53.10	50.10	50.00	50.40	50.00	48.40	46.90	47.90	48.00	50.10	50.40	52.00	48.90	49.70	48.50	49.60	49.80	50.00	50.10	52.30	50.10	49.90	49.90	49.90
PROPOSED CANAL BANK ELEVATION	35.85	35.83	35.82	35.80	35.79	35.78	35.76	35.75	35.74	35.72	35.71	35.70	35.68	35.67	35.65	35.64	35.63	35.61	35.60	35.59	35.57	35.55	35.54	35.52	35.51
PROPOSED WATER SURFACE ELEVATION	35.15	35.14	35.13	35.12	35.11	35.11	35.10	35.09	35.09	35.08	35.07	35.07	35.06	35.05	35.05	35.04	35.03	35.03	35.02	35.02	35.01	34.99	34.98	34.97	34.95
PROPOSED CANAL BASE ELEVATION	33.85	33.83	33.82	33.80	33.79	33.78	33.76	33.75	33.74	33.72	33.71	33.70	33.68	33.67	33.65	33.64	33.63	33.61	33.60	33.58	33.57	33.55	33.54	33.52	33.51
EXISTING CANAL BANK ELEVATION	37.47	37.54	37.16	37.28	37.38	37.38	36.77	36.10	36.16	36.12	36.48	37.11	36.94	36.88	36.84	36.65	36.88	36.70	36.58	36.82	36.85	36.17	36.17	36.44	36.57
EXISTING CANAL BASE ELEVATION	34.09	33.71	33.75	33.63	33.59	33.69	33.53	33.59	33.55	33.66	33.80	33.48	33.41	33.48	33.40	33.53	33.89	33.62	33.53	33.64	33.97	33.50	33.56	34.11	33.22



**LEGEND**

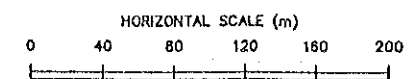
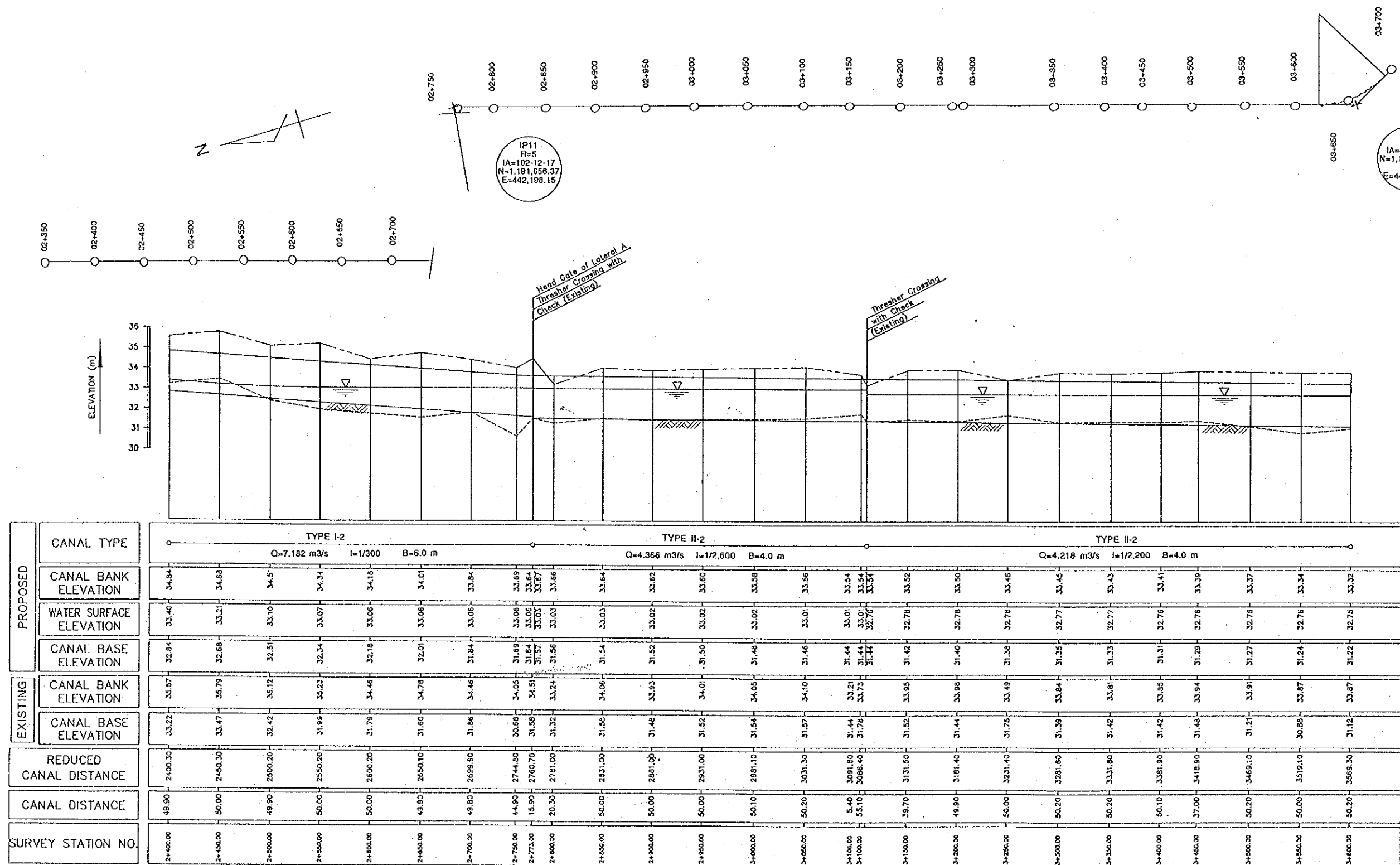
	PROPOSED WATER SURFACE
	PROPOSED CANAL BANK
	PROPOSED CANAL BASE
	EXISTING CANAL BANK
	EXISTING CANAL BASE

THE REPUBLIC OF THE PHILIPPINES  
 THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT  
 IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
 IRRIGATION CANAL  
 PLAN AND PROFILE OF MAIN CANAL (2/9)

DATE	DRAWING NO.	2002
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JAPAN INTERNATIONAL COOPERATION AGENCY



- LEGEND**
- (solid line with inverted triangle) — PROPOSED WATER SURFACE
  - (solid line) — PROPOSED CANAL BANK
  - (solid line with diagonal hatching) — PROPOSED CANAL BASE
  - - - (dashed line) — EXISTING CANAL BANK
  - - - (dashed line) — EXISTING CANAL BASE

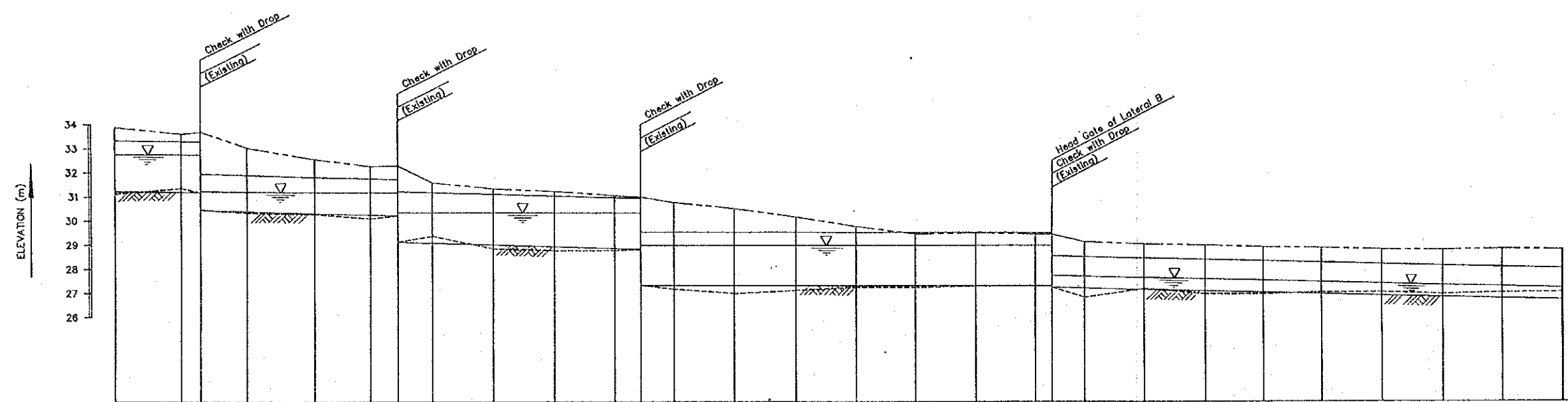
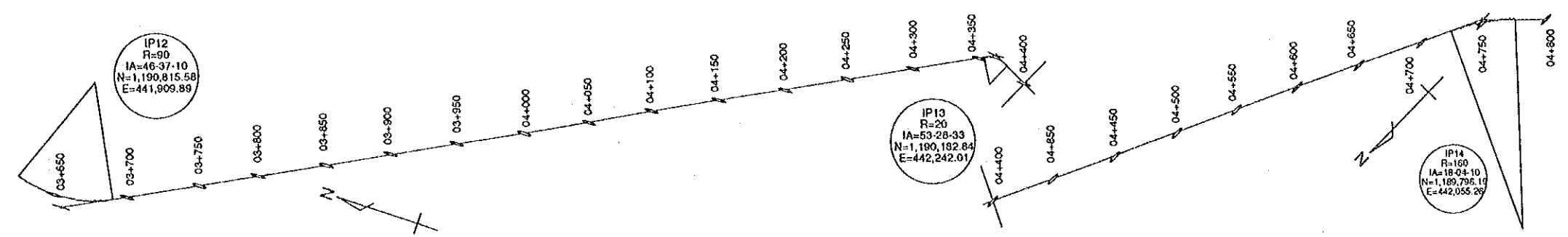
THE REPUBLIC OF THE PHILIPPINES

THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM

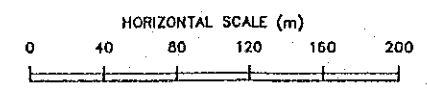
TITLE OF DRAWING  
IRRIGATION CANAL  
PLAN AND PROFILE OF MAIN CANAL (3/9)

DATE	DRAWING NO.	2003
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JAPAN INTERNATIONAL COOPERATION AGENCY



	CANAL TYPE	TYPE II-2		TYPE II-4		TYPE II-3		TYPE II-1		TYPE III									
		Q=4.218 m <sup>3</sup> /s I=1/2,200 B=4.0 m	Q=4.218 m <sup>3</sup> /s I=1/700 B=4.0 m	Q=4.117 m <sup>3</sup> /s I=1/700 B=4.0 m	Q=4.117 m <sup>3</sup> /s I=1/1,500 B=4.0 m	Q=1.869 m <sup>3</sup> /s I=1/800 B=3.0 m													
PROPOSED	CANAL BANK ELEVATION	33.32	33.30	31.76	31.12	31.04	30.97	29.53	29.52	29.51	28.55	28.52	28.45	28.39	28.33	28.27	28.20	28.06	28.02
	WATER SURFACE ELEVATION	32.75	32.75	31.19	30.35	30.34	30.34	28.99	28.99	28.98	28.98	28.98	28.64	28.58	28.52	28.46	28.39	28.28	28.22
	CANAL BASE ELEVATION	31.22	31.20	30.26	29.02	28.94	28.87	27.33	27.32	27.31	27.31	27.22	27.15	27.09	27.03	26.97	26.90	26.76	26.72
EXISTING	CANAL BANK ELEVATION	33.87	33.51	32.27	31.34	31.23	31.06	30.52	30.16	29.77	29.44	29.03	28.89	28.90	28.87	28.80	28.79	28.63	28.80
	CANAL BASE ELEVATION	31.12	31.36	30.22	28.85	28.77	28.78	27.00	27.12	27.25	27.31	27.19	26.96	26.95	27.04	27.04	26.96	27.02	27.04
	REDUCED CANAL DISTANCE	3569.30	3622.10	3775.80	3875.90	3926.00	3975.90	4076.30	4126.30	4176.40	4226.60	4276.80	4326.90	4377.00	4427.10	4477.20	4527.30	4577.40	4627.50
	CANAL DISTANCE	50.20	52.20	44.20	50.10	50.10	49.90	50.10	50.00	50.10	50.20	50.20	50.50	49.60	48.90	50.10	51.30	49.90	48.10
	SURVEY STATION NO.	3+650.00	3+650.00	3+650.00	3+750.00	3+800.00	3+822.00	3+850.00	3+900.00	3+920.00	3+950.00	3+970.00	3+970.00	3+970.00	3+970.00	3+970.00	3+970.00	3+970.00	3+970.00



- LEGEND**
- PROPOSED WATER SURFACE
  - PROPOSED CANAL BANK
  - PROPOSED CANAL BASE
  - EXISTING CANAL BANK
  - EXISTING CANAL BASE

THE REPUBLIC OF THE PHILIPPINES

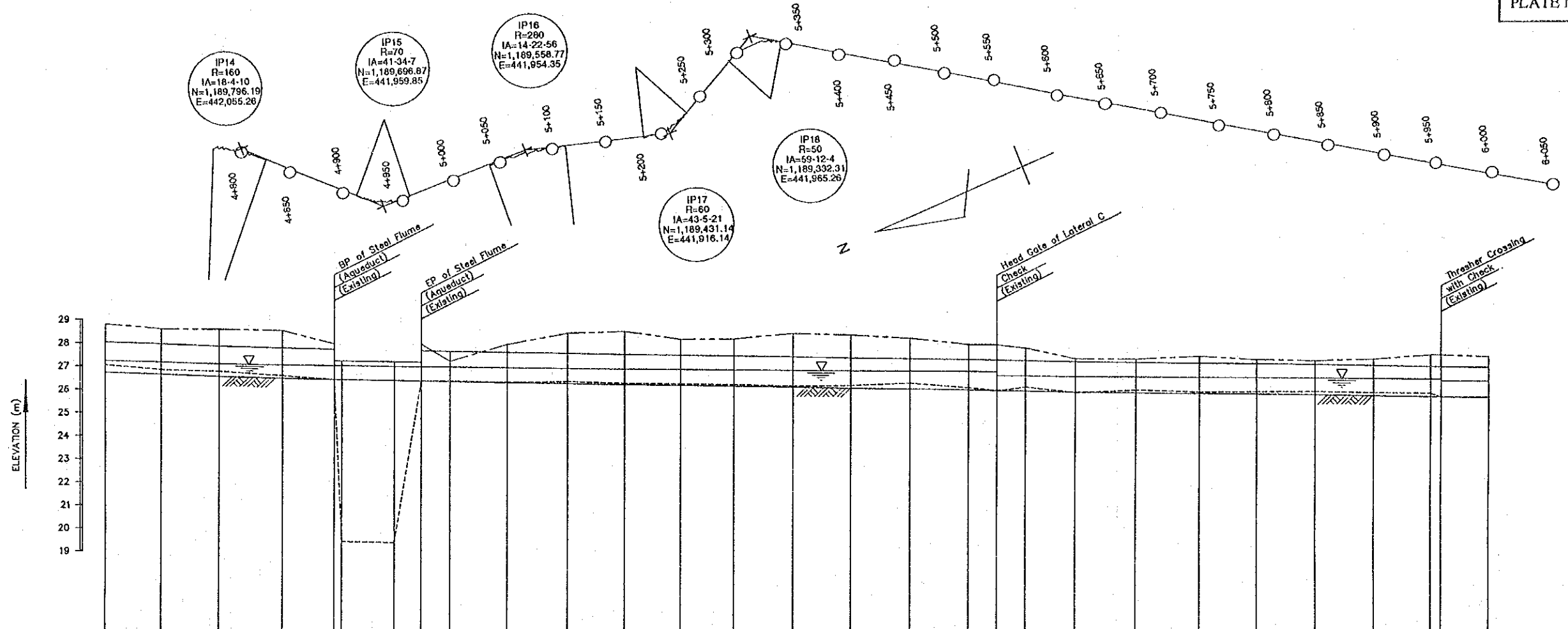
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT  
IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
IRRIGATION CANAL  
PLAN AND PROFILE OF MAIN CANAL (4/9)

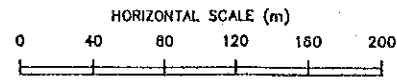
DATE	DRAWING NO.	2004
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JAPAN INTERNATIONAL COOPERATION AGENCY





	TYPE III		TYPE III		TYPE III		TYPE III		TYPE III	
	Q=1.869m <sup>3</sup> /s	l=1/800	Q=1.869m <sup>3</sup> /s	l=1/1,498	Q=1.869m <sup>3</sup> /s	l=1/1,700	Q=1.596m <sup>3</sup> /s	l=1/1,800	Q=1.505m <sup>3</sup> /s	l=1/2,600
PROPOSED CANAL TYPE	TYPE III									
PROPOSED CANAL BANK ELEVATION	28.02	27.96	27.88	27.83	27.77	27.72	27.67	27.62	27.57	27.52
PROPOSED WATER SURFACE ELEVATION	27.22	27.16	27.13	27.10	27.07	27.03	26.99	26.95	26.92	26.88
PROPOSED CANAL BASE ELEVATION	26.72	26.66	26.59	26.53	26.47	26.42	26.37	26.32	26.27	26.22
EXISTING CANAL BANK ELEVATION	28.80	28.61	28.62	28.58	28.01	27.27	27.24	27.23	27.21	27.19
EXISTING CANAL BASE ELEVATION	27.04	26.85	26.81	26.64	26.47	26.43	26.38	26.34	26.31	26.26
REDUCED CANAL DISTANCE	4768.30	4817.20	4866.80	4921.90	4966.00	5017.50	5040.90	5066.00	5115.50	5166.80
CANAL DISTANCE	49.10	48.90	49.60	55.10	44.10	6.50	45.00	23.40	25.10	49.50
SURVEY STATION NO.	4+800.00	4+850.00	4+900.00	4+950.00	4+993.00	5+000.00	5+030.00	5+073.00	5+100.00	5+130.00



LEGEND

- PROPOSED WATER SURFACE
- PROPOSED CANAL BANK
- PROPOSED CANAL BASE
- EXISTING CANAL BANK
- EXISTING CANAL BASE

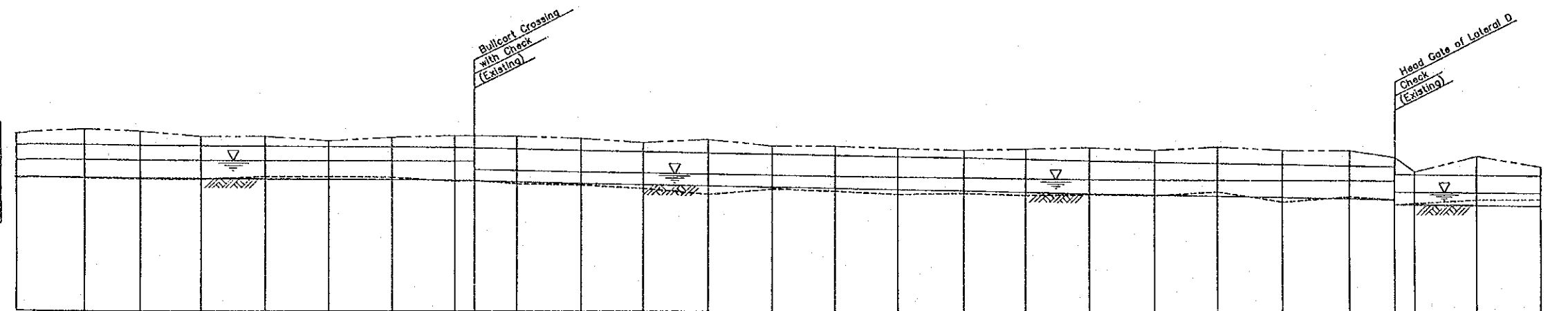
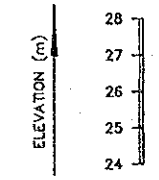
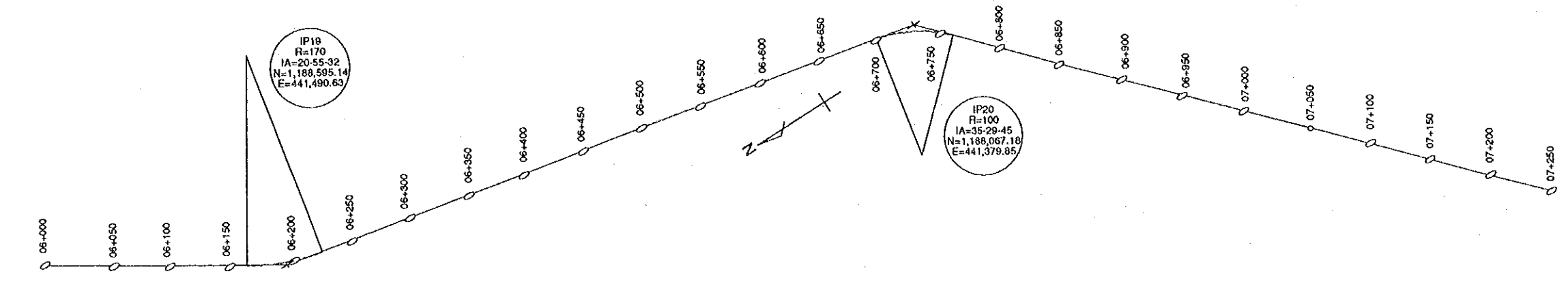
THE REPUBLIC OF THE PHILIPPINES

THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
IRRIGATION CANAL  
PLAN AND PROFILE OF MAIN CANAL (5/9)

DATE	DRAWING NO.	2005
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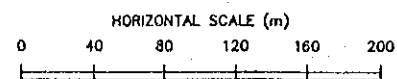
JAPAN INTERNATIONAL COOPERATION AGENCY



	SURVEY STATION NO.	TYPE III										TYPE III										TYPE IV-2																																																																			
		Q=1.505m <sup>3</sup> /s l=1/2,600 B=3.0 m																														Q=1.444m <sup>3</sup> /s l=1/1,000 B=3.0 m																														Q=0.814m <sup>3</sup> /s l=1/1,300 B=2.0 m																											
PROPOSED		CANAL TYPE																																																																																							
		CANAL BANK ELEVATION																																																																																							
		WATER SURFACE ELEVATION																																																																																							
		CANAL BASE ELEVATION																																																																																							
EXISTING		CANAL BANK ELEVATION																																																																																							
		CANAL BASE ELEVATION																																																																																							
		REDUCED CANAL DISTANCE																																																																																							
		CANAL DISTANCE																																																																																							

LEGEND

- PROPOSED WATER SURFACE
- PROPOSED CANAL BANK
- PROPOSED CANAL BASE
- EXISTING CANAL BANK
- EXISTING CANAL BASE



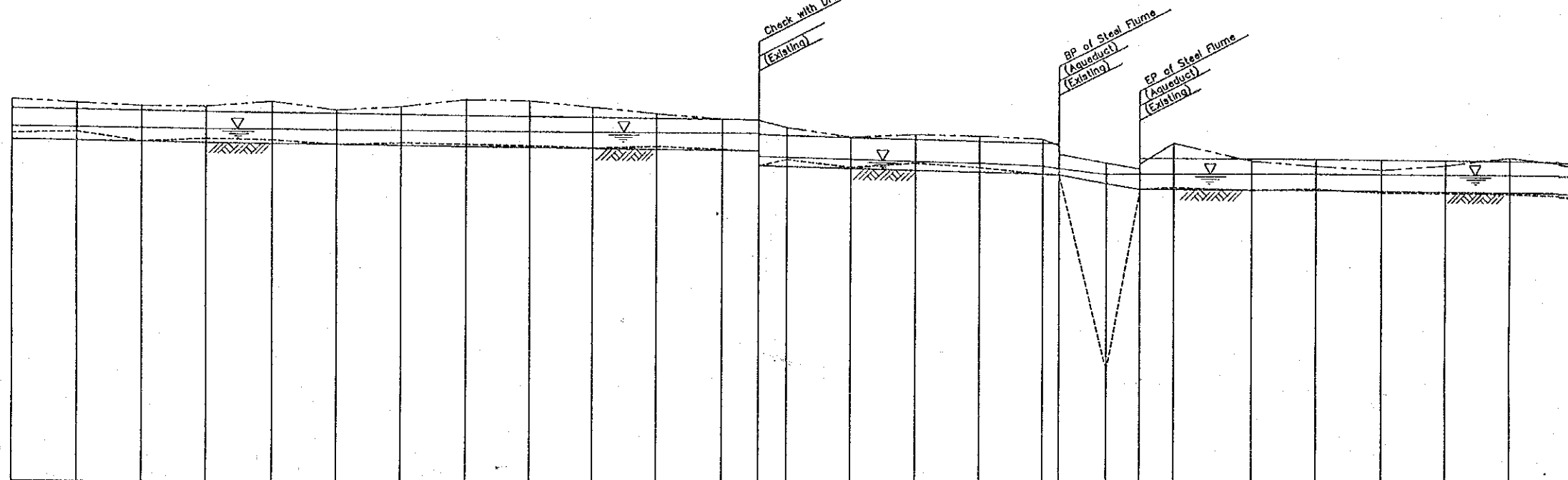
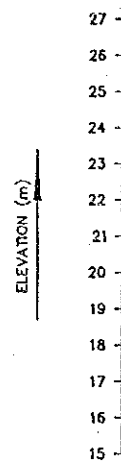
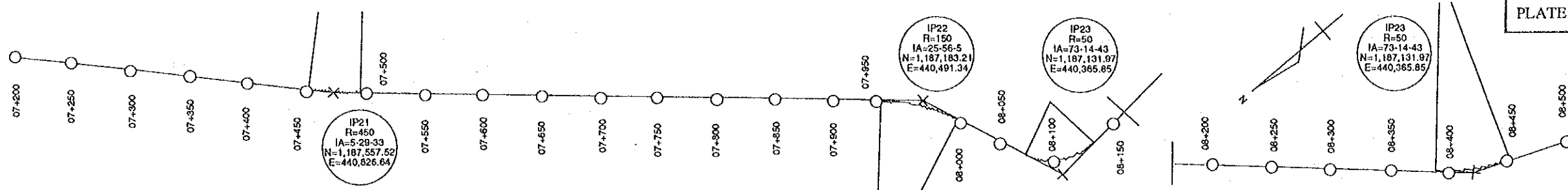
THE REPUBLIC OF THE PHILIPPINES

THE OPTIMUM WATER UTILIZATION  
AND RURAL DEVELOPMENT PROJECT  
IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
IRRIGATION CANAL  
PLAN AND PROFILE OF MAIN CANAL (6/9)

DATE	DRAWING NO.	2006
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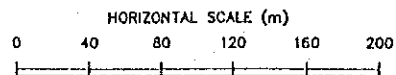
JAPAN INTERNATIONAL COOPERATION AGENCY



	TYPE IV-2																					
	Q=0.814m <sup>3</sup> /s l=1/1,900 B=2.0 m					Q=0.756m <sup>3</sup> /s l=1/800 B=2.0 m					Q=0.756m <sup>3</sup> /s l=1/139 B=2.0 m					Q=0.756m <sup>3</sup> /s l=1/2,800 B=2.0 m						
PROPOSED CANAL BANK ELEVATION	25.90	25.87	25.85	25.82	25.79	25.77	25.74	25.71	25.69	25.66	25.63	25.60	24.87	24.81	24.75	24.73	24.71	24.15	24.13	24.11	24.09	24.05
PROPOSED WATER SURFACE ELEVATION	25.21	25.19	25.18	25.16	25.15	25.13	25.12	25.11	25.10	25.09	25.08	25.07	24.02	23.96	23.86	23.77	23.77	23.57	23.57	23.55	23.54	23.53
PROPOSED CANAL BASE ELEVATION	24.70	24.67	24.65	24.62	24.59	24.57	24.54	24.51	24.49	24.46	24.43	24.40	23.67	23.61	23.45	23.33	23.33	23.21	23.21	23.19	23.17	23.15
EXISTING CANAL BANK ELEVATION	26.26	26.13	26.03	26.03	26.22	25.90	26.04	26.32	26.28	26.05	26.31	25.61	25.08	25.01	24.91	24.66	24.66	24.01	24.06	23.86	23.72	23.92
EXISTING CANAL BASE ELEVATION	24.95	25.01	24.65	24.78	24.73	24.57	24.64	24.60	24.56	24.48	24.55	24.44	23.95	23.79	23.55	23.53	23.53	22.99	22.93	22.88	22.84	22.72
REDUCED CANAL DISTANCE	7168.90	7218.90	7268.90	7318.80	7368.80	7418.70	7468.20	7518.00	7568.00	7618.00	7668.10	7718.10	7869.10	7918.80	7968.50	7981.40	8018.20	8043.70	8069.60	8130.40	8180.20	8230.10
CANAL DISTANCE	50.00	50.00	50.00	49.90	50.00	49.90	50.00	49.80	50.00	50.00	50.10	50.00	49.90	49.70	48.70	12.90	36.80	25.50	25.90	60.60	49.90	49.70
SURVEY STATION NO.	7+200.00	7+250.00	7+300.00	7+350.00	7+400.00	7+450.00	7+500.00	7+550.00	7+600.00	7+650.00	7+700.00	7+750.00	7+800.00	7+850.00	7+900.00	7+950.00	8+000.00	8+013.00	8+030.00	8+075.00	8+100.00	8+150.00

LEGEND

- PROPOSED WATER SURFACE
- PROPOSED CANAL BANK
- PROPOSED CANAL BASE
- EXISTING CANAL BANK
- EXISTING CANAL BASE



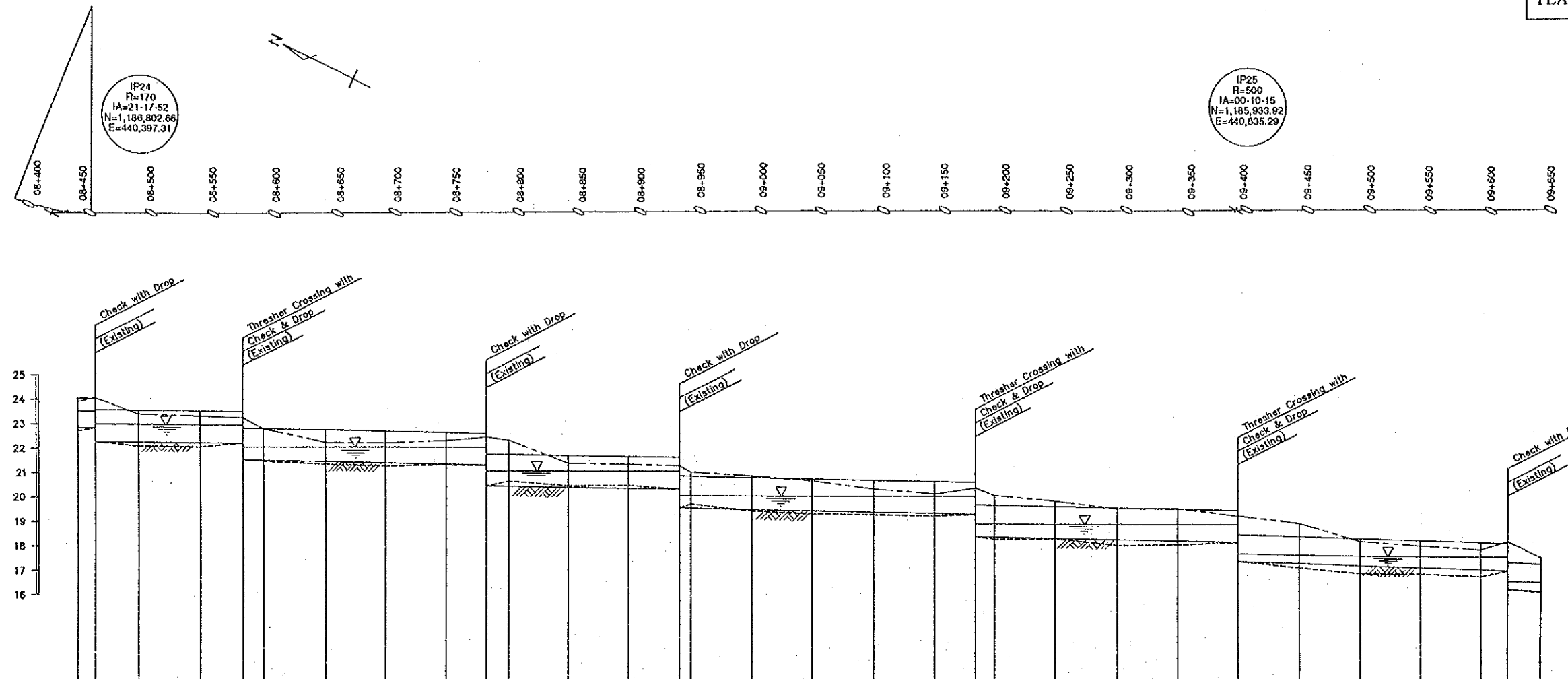
THE REPUBLIC OF THE PHILIPPINES

THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
IRRIGATION CANAL  
PLAN AND PROFILE OF MAIN CANAL (7/9)

DATE	DRAWING NO.	2007
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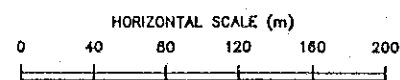
JAPAN INTERNATIONAL COOPERATION AGENCY



	CANAL TYPE	TYPE IV-2		TYPE IV-1		TYPE IV-1		TYPE IV-1		TYPE IV-1		TYPE IV-1		TYPE IV-3																
		Q=0.758m <sup>3</sup> /s I=1/2,800 B=2.0 m	Q=0.688m <sup>3</sup> /s I=1/4,000 B=2.0 m	Q=0.688m <sup>3</sup> /s I=1/900 B=2.0 m	Q=0.688m <sup>3</sup> /s I=1/900 B=2.0 m	Q=0.688m <sup>3</sup> /s I=1/1,200 B=2.0 m	Q=0.688m <sup>3</sup> /s I=1/900 B=2.0 m	Q=0.628m <sup>3</sup> /s I=1/900 B=2.0 m	Q=0.628m <sup>3</sup> /s I=1/600 B=2.0 m																					
PROPOSED	CANAL BANK ELEVATION	24.05 24.04 23.58	23.57	23.56	23.55 23.55 22.87	22.85	22.80	22.74	22.69	22.65 21.80	21.74	21.70	21.67 20.90 20.90	20.84	20.79	20.73	20.68	20.64 19.71	19.71	19.66	19.60	19.55	19.48 18.50	18.42	18.33	18.25	18.17 18.13 17.55	17.31		
	WATER SURFACE ELEVATION	23.53 23.53 23.00	23.00	22.99	22.99 22.10 22.87	22.10	22.09	22.09	22.08	22.08 21.12	21.12	21.11	21.11 20.10 20.10	20.09	20.08	20.05	20.07	20.07	20.07 18.94	18.94	18.93	18.92	18.92	18.92 17.71	17.65	17.61	17.59	17.58 17.53 16.53	16.57	
	CANAL BASE ELEVATION	22.85 22.84 22.28	22.27	22.26	22.25 21.57 21.55	21.55	21.50	21.44	21.39	21.35 20.50	20.44	20.40	20.37 19.60 19.60	19.54	19.49	19.43	19.38	19.38	19.34 18.41	18.41	18.36	18.30	18.25	18.25	18.18 17.48	17.32	17.23	17.15	17.07 17.03 16.23	16.21
EXISTING	CANAL BANK ELEVATION	23.92	24.07	23.35	23.29	22.84	22.28	22.20	22.35	22.51	21.43	21.38	21.32	20.92	20.71	20.38	20.17	20.17	20.41	20.10	19.88	19.57	19.37	19.26	18.95	18.22	18.04	17.86	18.21	17.50
	CANAL BASE ELEVATION	22.72	22.84	22.11	22.05	21.51	21.38	21.31	21.36	21.34	20.70	20.51	20.52	20.37	20.17	19.33	19.27	19.27	19.33	18.32	18.34	18.09	18.09	18.18	17.14	16.90	16.89	16.75	17.02	16.14
	REDUCED CANAL DISTANCE	8360.20	8364.20	8428.80	8491.30	8516.30	8532.50	8632.60	8692.50	8714.40	8732.40	8782.40	8832.40	8872.40	8982.40	9032.20	9082.10	9116.30	9132.40	9182.40	9232.40	9282.30	9332.40	9382.40	9432.40	9482.50	9532.50	9554.50	9582.50	
	CANAL DISTANCE	50.10	14.00	35.60	51.50	35.00	16.40	49.80	50.10	48.90	50.00	50.00	41.00	8.00	48.90	48.90	50.00	48.90	50.00	50.00	48.90	50.10	50.00	50.00	50.00	50.10	50.00	22.00	28.00	
	SURVEY STATION NO.	8+400.00 8+414.00	8+430.00	8+500.00	8+534.00 8+550.00	8+600.00	8+650.00	8+700.00	8+732.00 8+750.00	8+800.00	8+850.00	8+900.00	8+981.00 8+990.00	8+990.00	8+990.00	8+100.00	8+134.00 8+150.00	8+200.00	8+250.00	8+300.00	8+350.00	8+400.00	8+450.00	8+500.00	8+550.00	8+572.00	8+600.00			

LEGEND

- PROPOSED WATER SURFACE
- PROPOSED CANAL BANK
- PROPOSED CANAL BASE
- EXISTING CANAL BANK
- EXISTING CANAL BASE

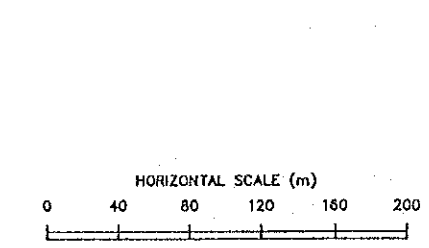
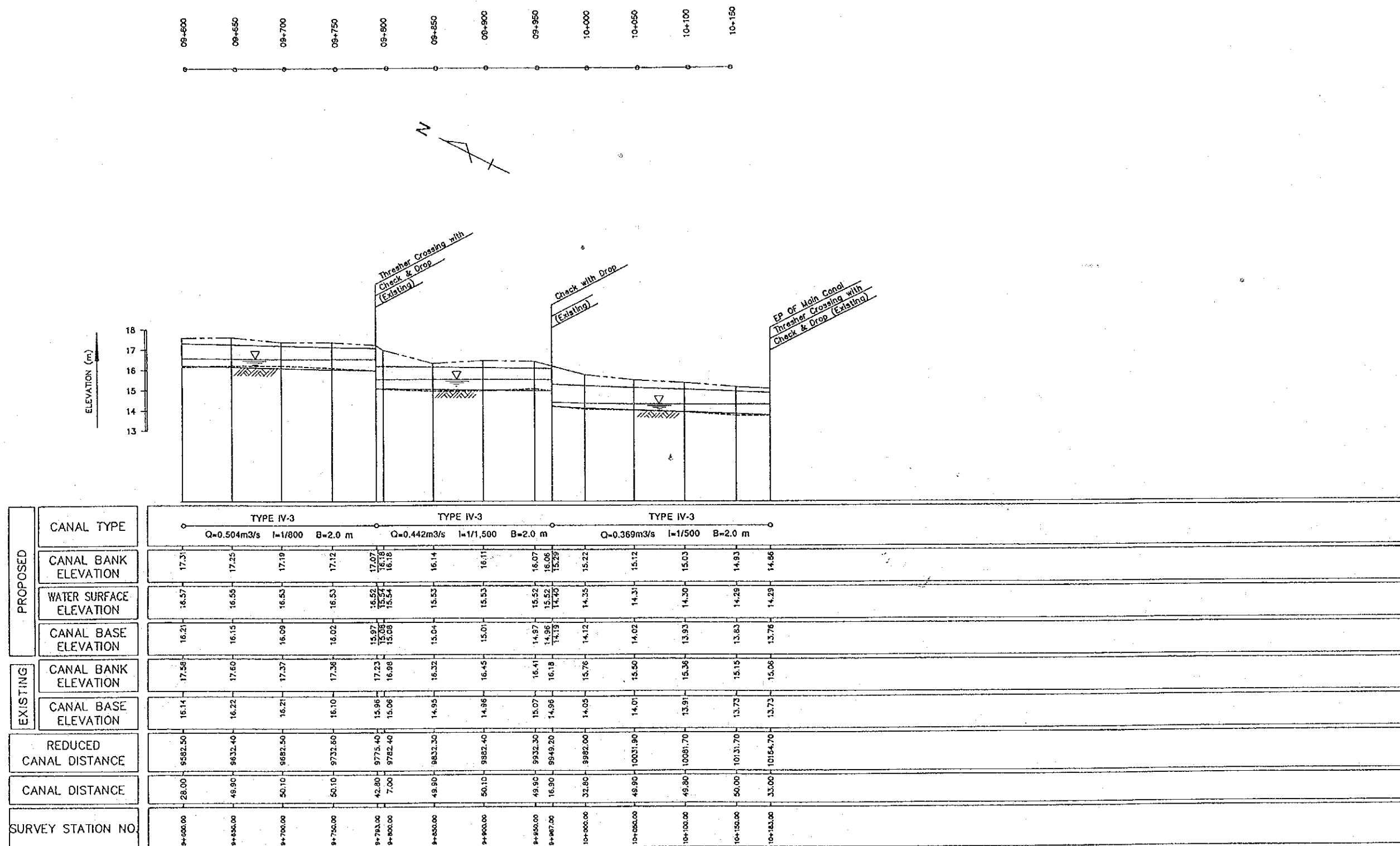


THE REPUBLIC OF THE PHILIPPINES  
 THE OPTIMUM WATER UTILIZATION  
 AND RURAL DEVELOPMENT PROJECT  
 IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
 IRRIGATION CANAL  
 PLAN AND PROFILE OF MAIN CANAL (8/9)

DATE	DRAWING NO.	2008
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JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND

- PROPOSED WATER SURFACE
- PROPOSED CANAL BANK
- PROPOSED CANAL BASE
- EXISTING CANAL BANK
- EXISTING CANAL BASE

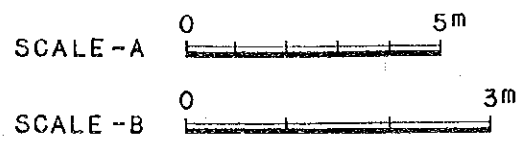
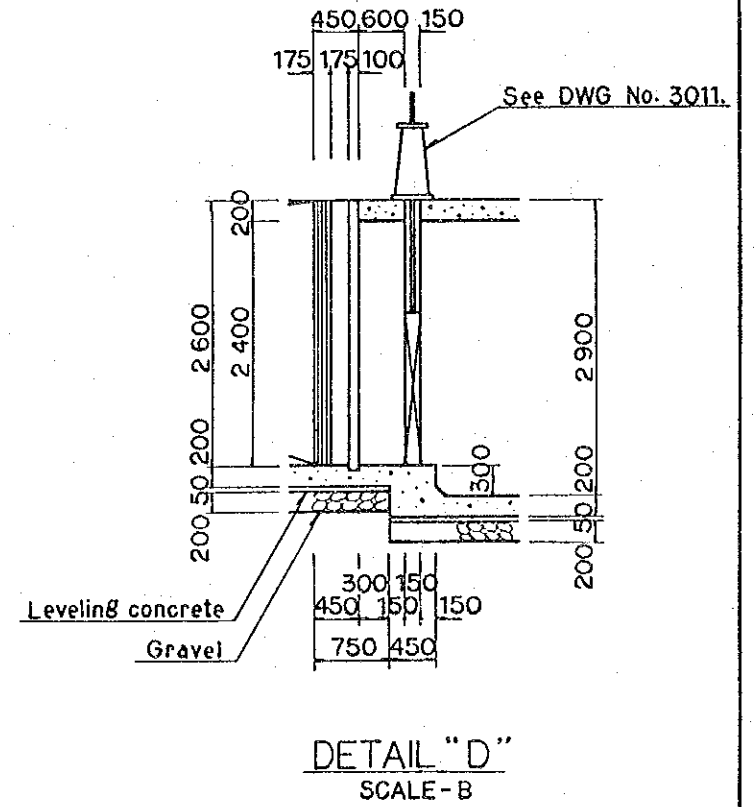
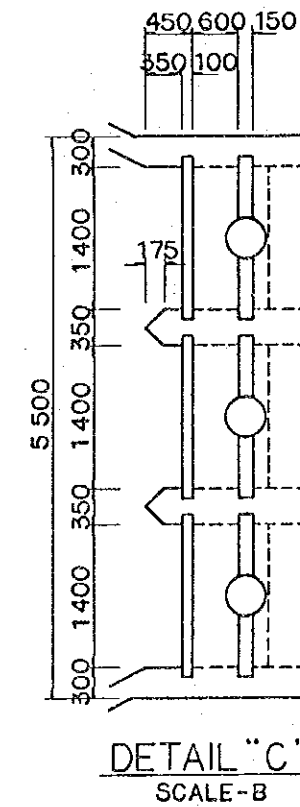
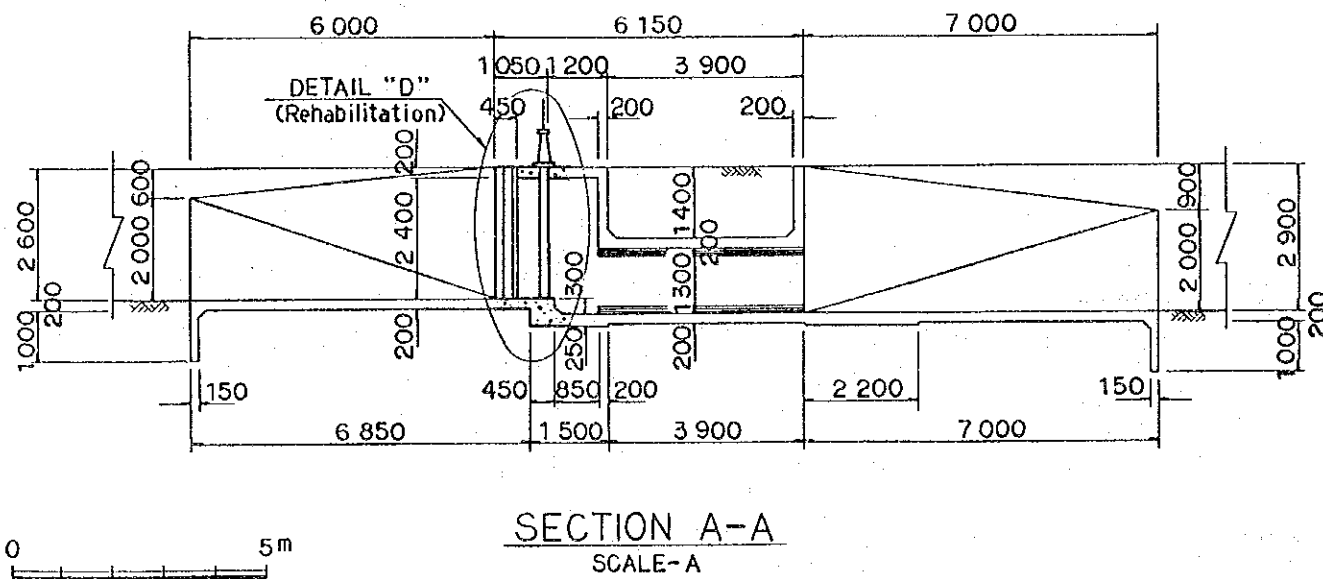
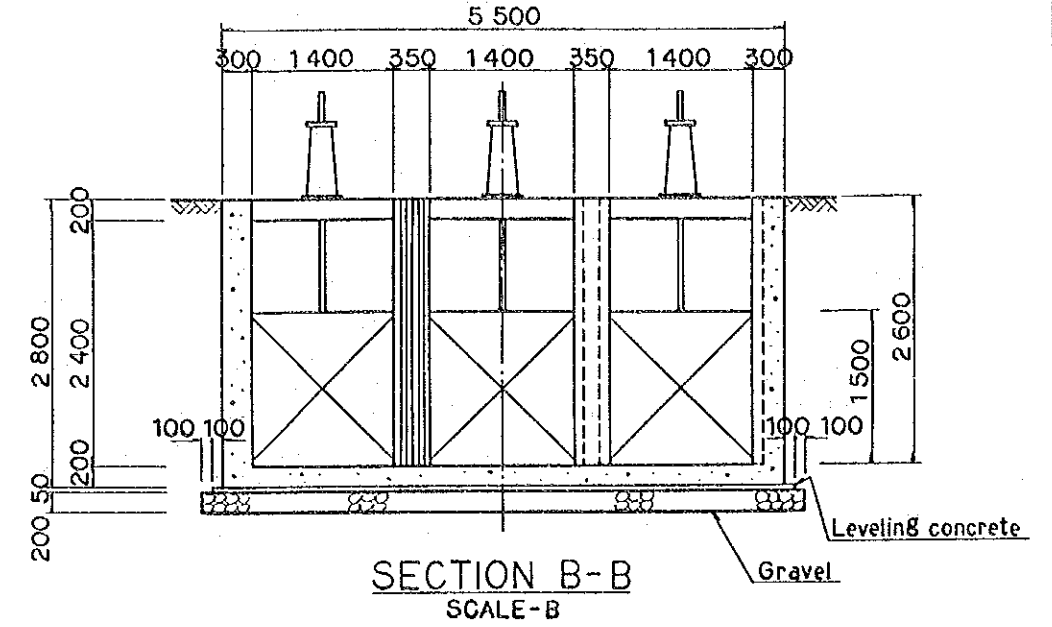
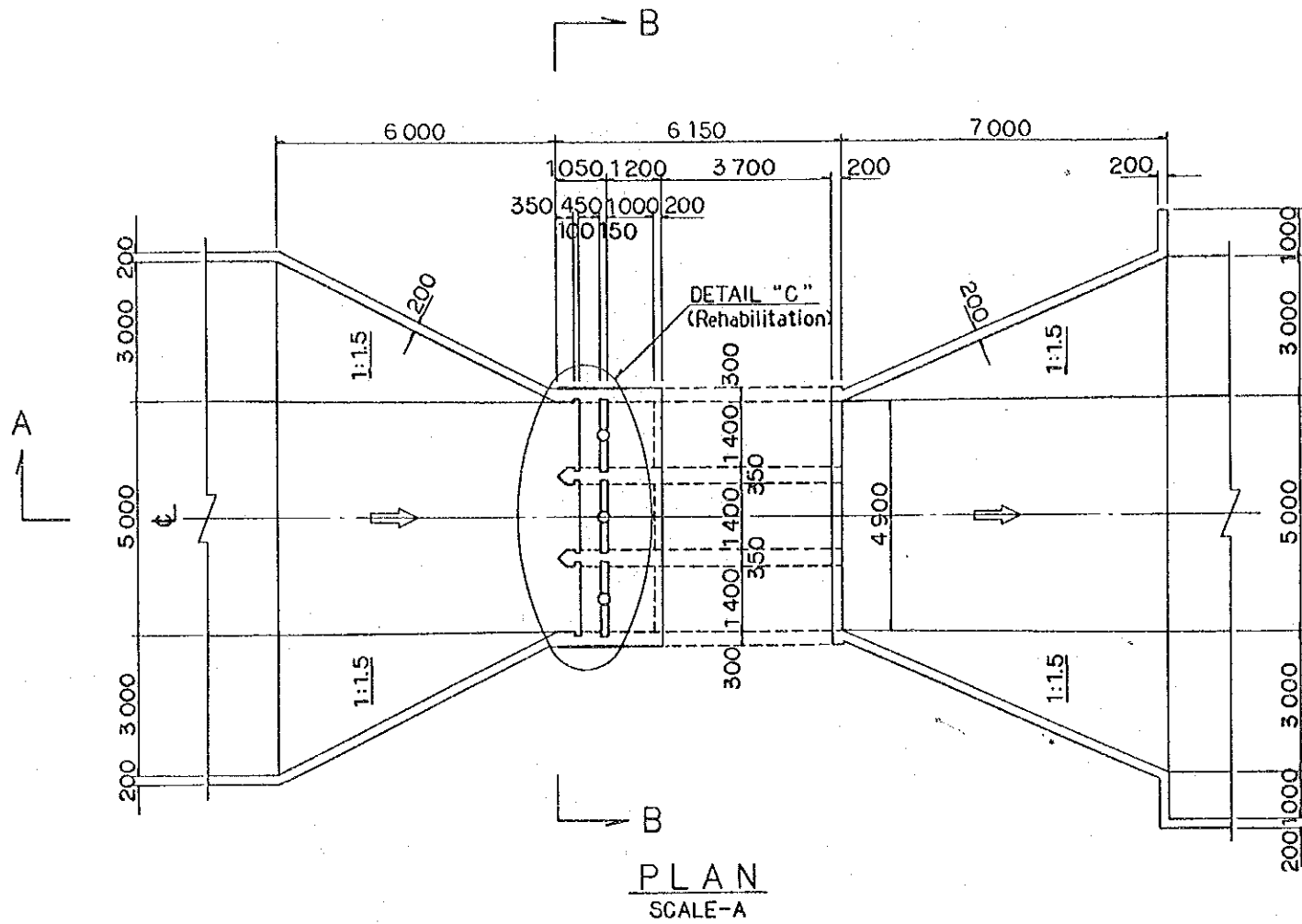
THE REPUBLIC OF THE PHILIPPINES

THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
IRRIGATION CANAL  
PLAN AND PROFILE OF MAIN CANAL (9/9)

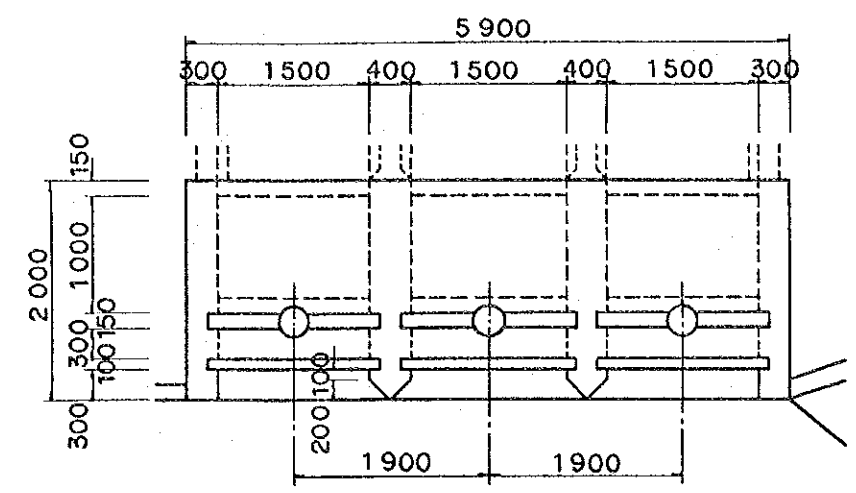
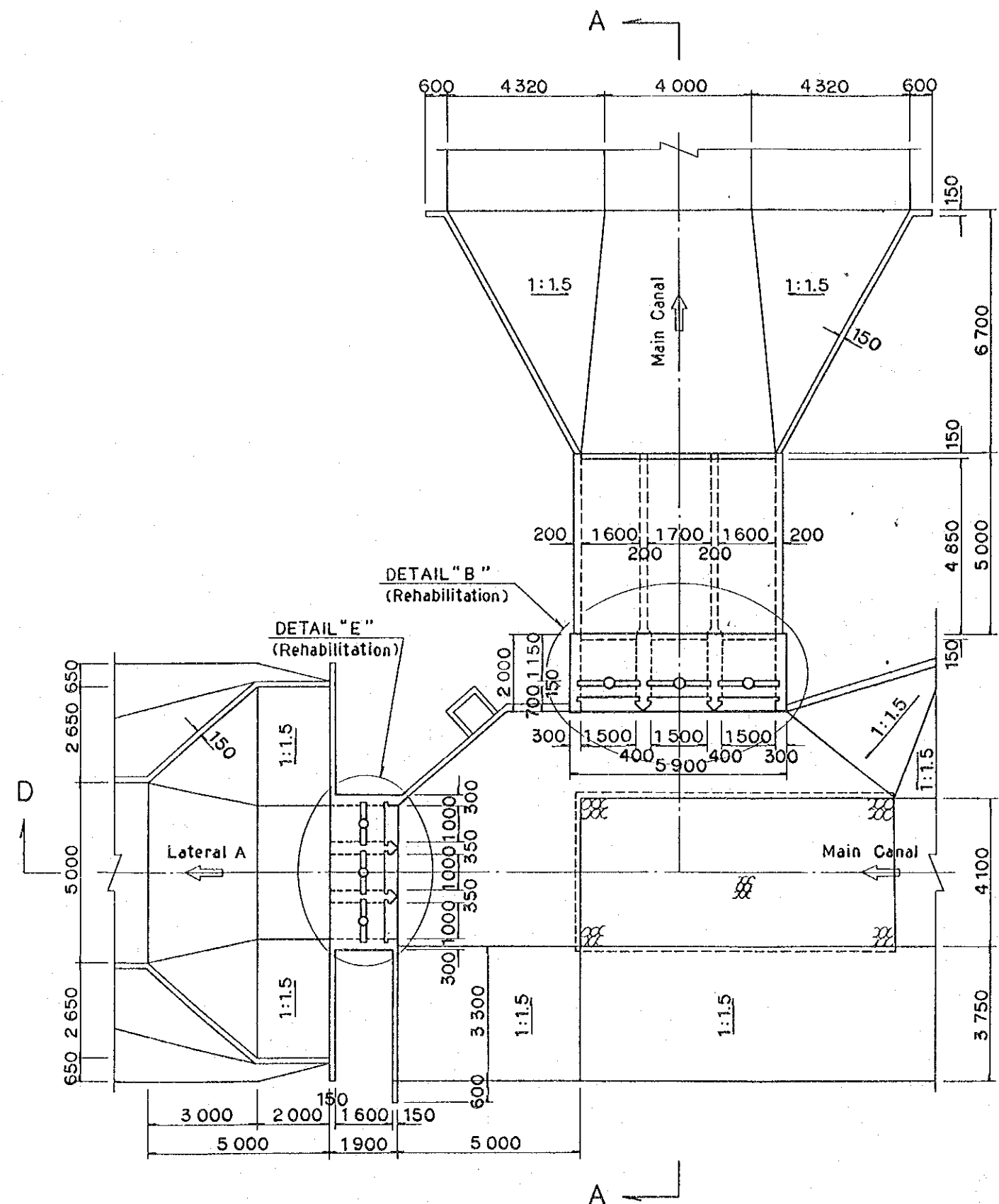
DATE	DRAWING NO.	2009
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JAPAN INTERNATIONAL COOPERATION AGENCY

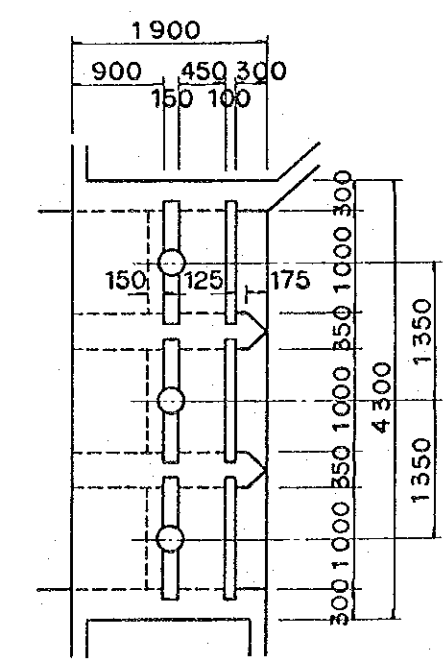


Note : The rehabilitation portion is shown in Detail "C" and "D".

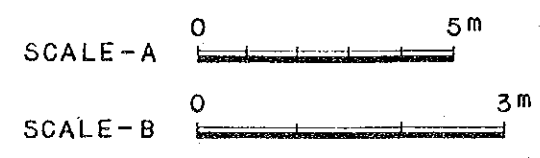
THE REPUBLIC OF THE PHILIPPINES	
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM	
TITLE OF DRAWING CANAL STRUCTURES REPLACEMENT OF CHECK GATE (MAIN CANAL, STA 2+200)	
DATE	DRAWING NO. 3001
JAPAN INTERNATIONAL COOPERATION AGENCY	



DETAIL "B"  
SCALE-B



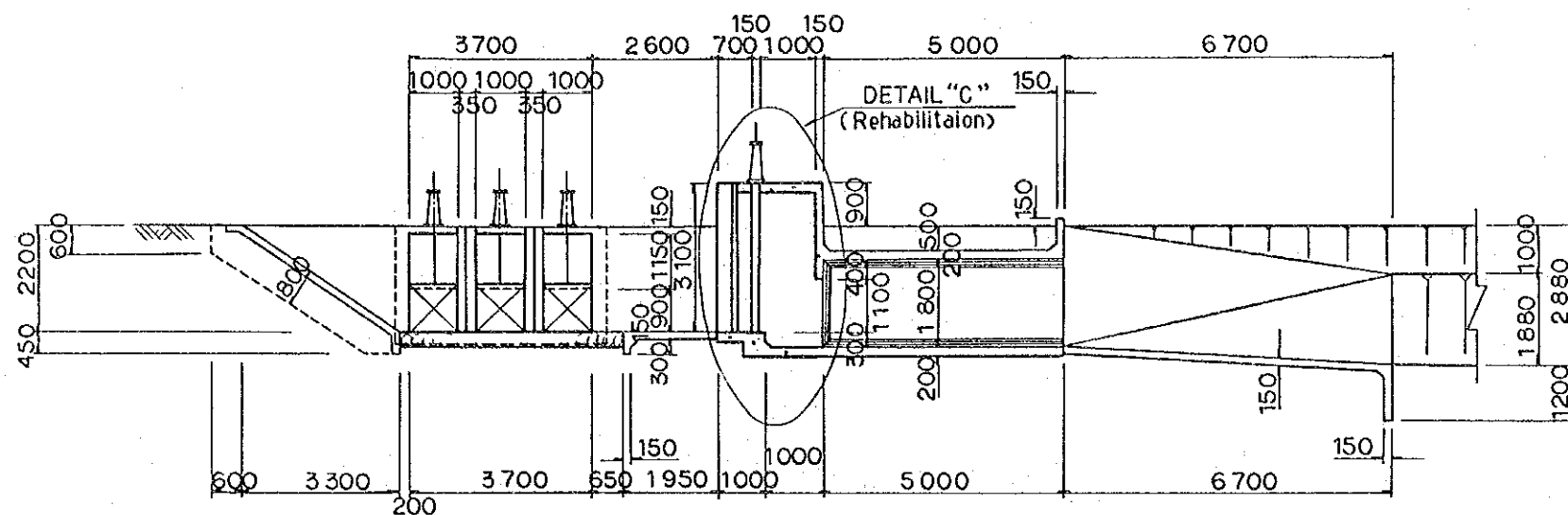
DETAIL "E"  
SCALE-B



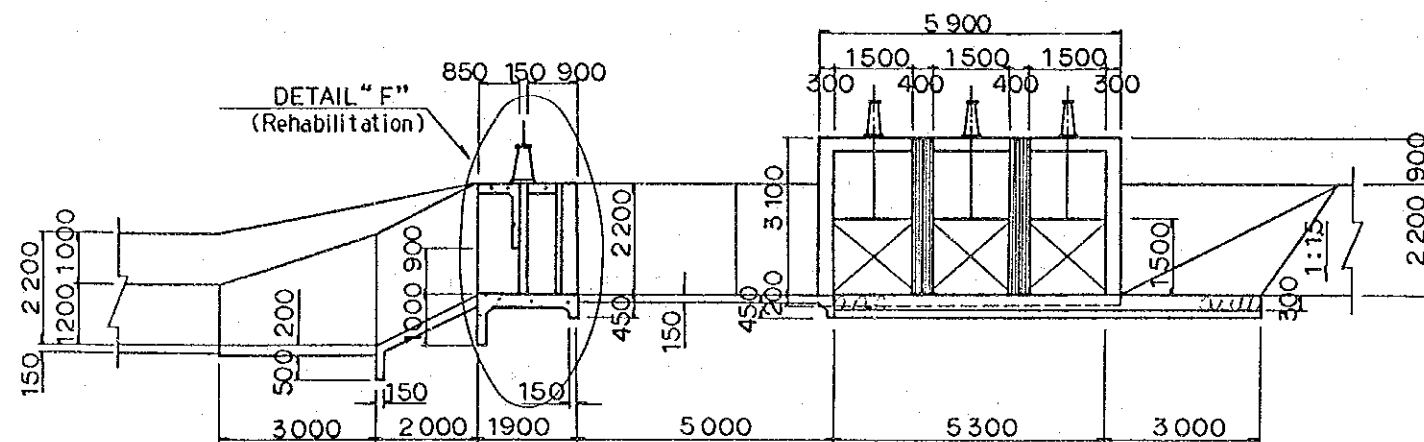
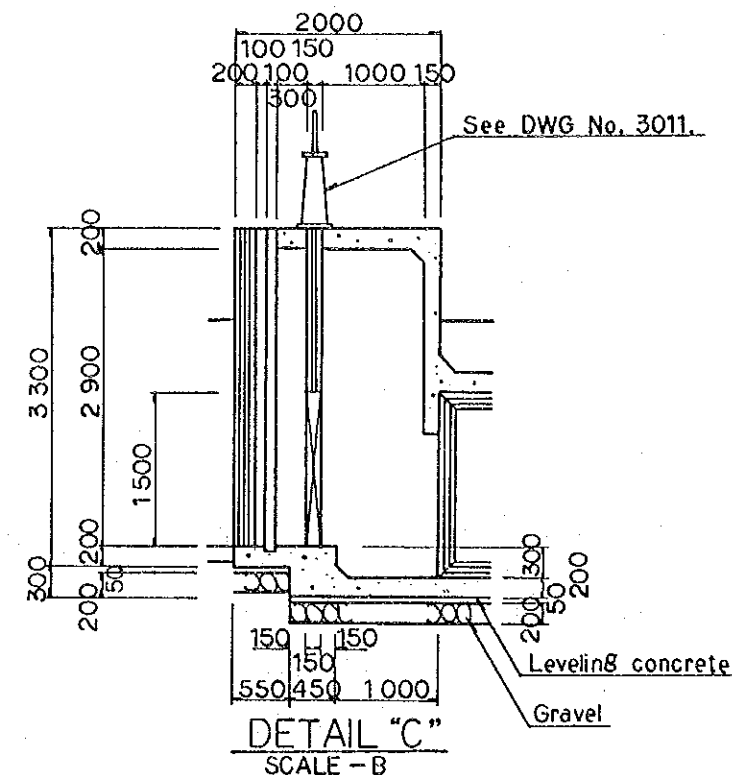
PLAN  
SCALE-A

Note : Rehabilitation of Thresher Crossing with Check is shown in DETAIL "B" and "C".  
Rehabilitation of Head Gate of Lateral A is shown in DETAIL "E" and "F".

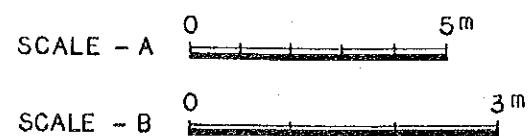
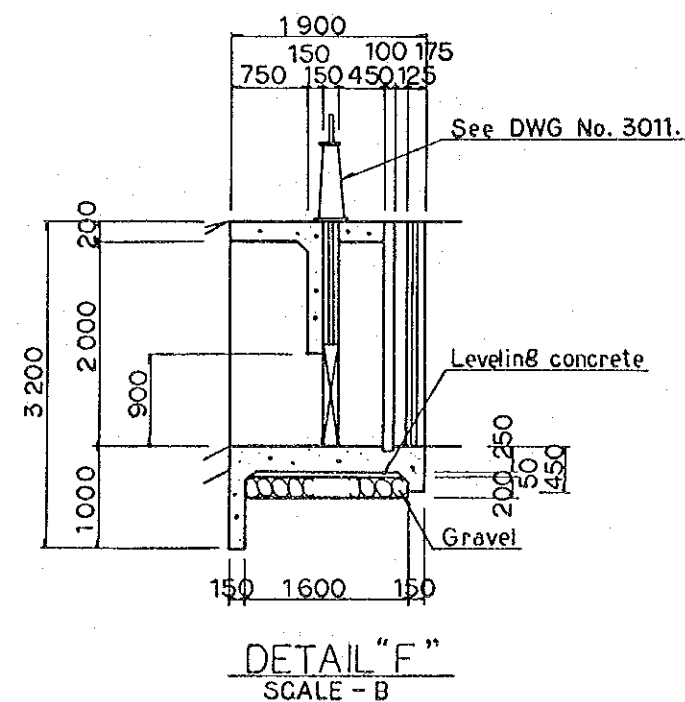
THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING CANAL STRUCTURES REPLACEMENT OF COMBINED CHECK AND HEAD GATE (MAIN CANAL, STA 2+773) (1/2)			
DATE		DRAWING NO.	3002
JAPAN INTERNATIONAL COOPERATION AGENCY			



SECTION A-A  
SCALE - A



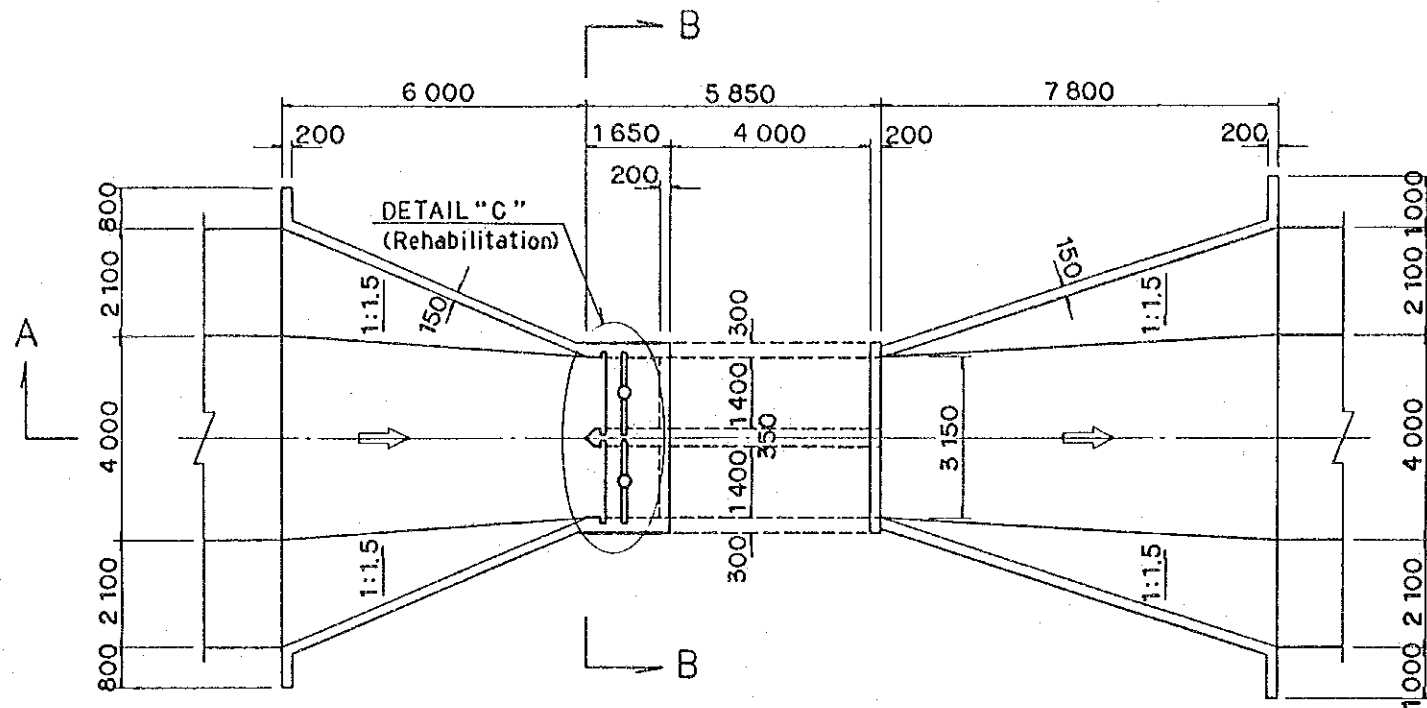
SECTION D-D  
SCALE - A



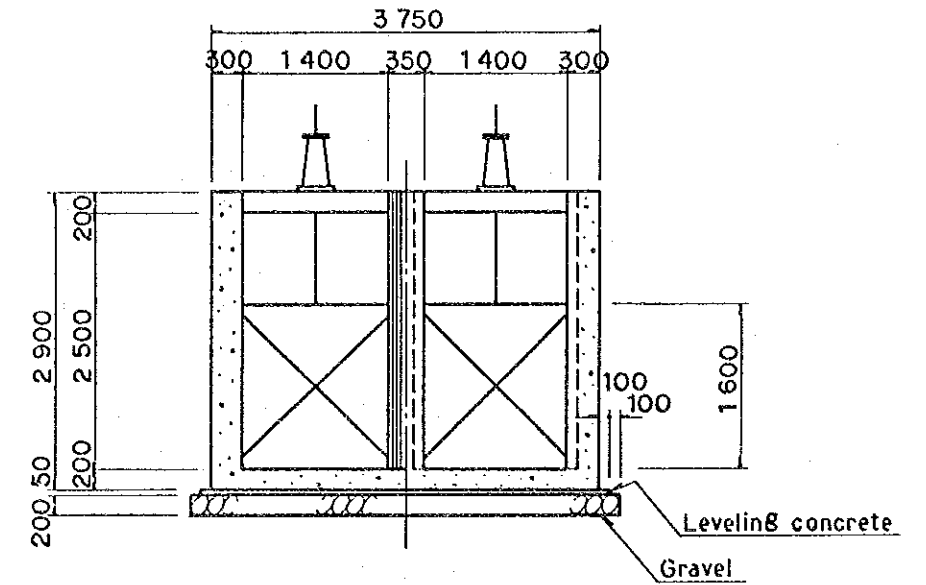
Note : Rehabilitation of Thresher Crossing with Check is shown in DETAIL "B" and "C".  
Rehabilitation of Head Gate of Lateral A is shown in DETAIL "E" and "F".

THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING			
CANAL STRUCTURES			
REPLACEMENT OF COMBINED CHECK AND HEAD GATE (MAIN CANAL, STA 2+773) (2/2)			
DATE		DRAWING NO.	3003
JAPAN INTERNATIONAL COOPERATION AGENCY			

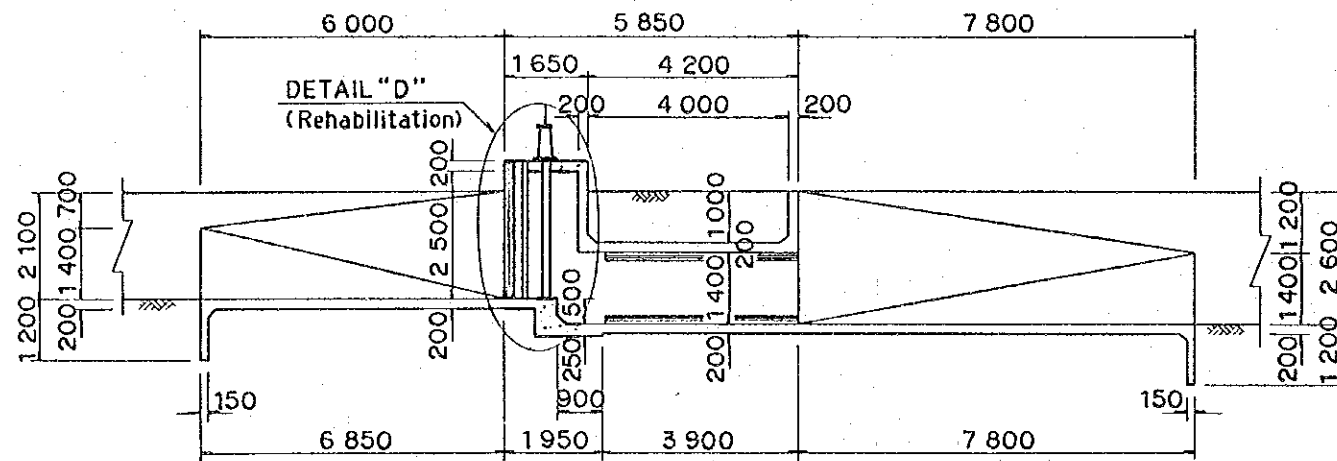




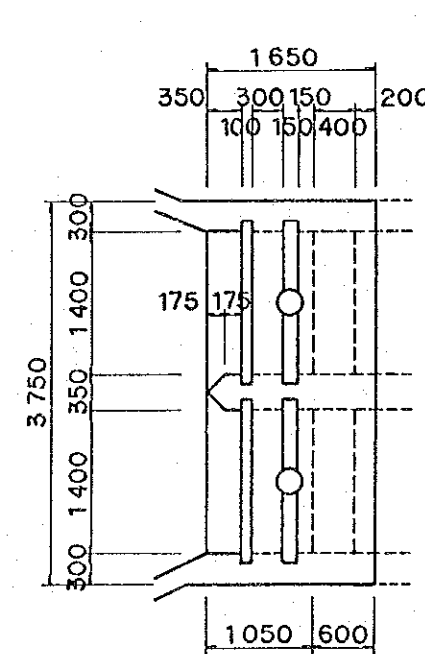
PLAN  
SCALE-A



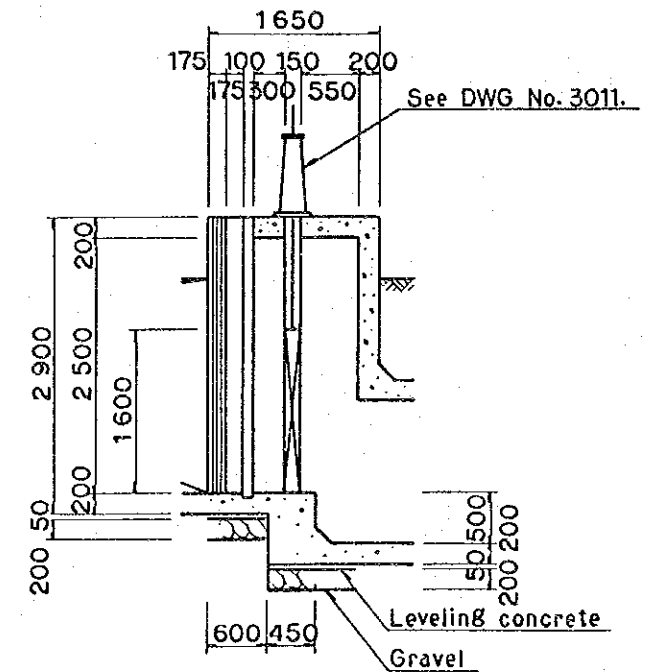
SECTION B-B  
SCALE-B



SECTION A-A  
SCALE-A



DETAIL "C"  
SCALE-B

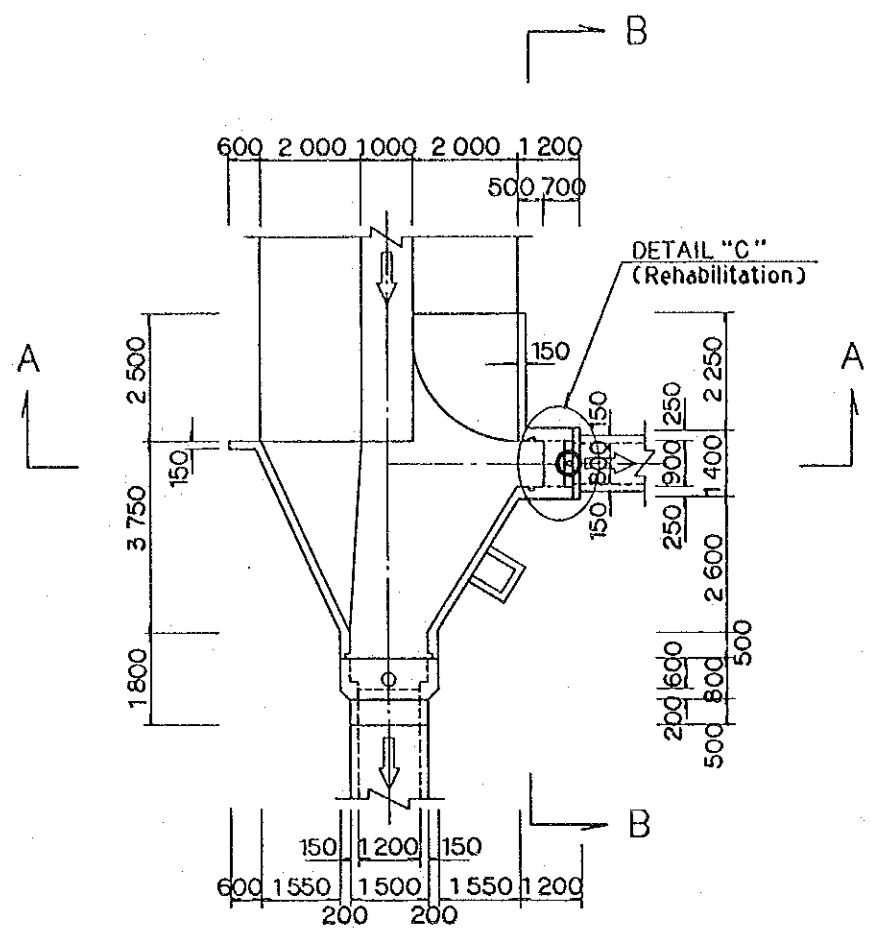


DETAIL "D"  
SCALE-B

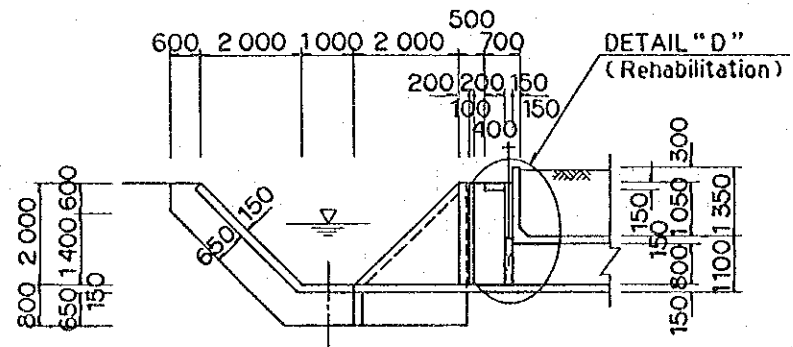


Note : Rehabilitation portion is shown in DETAIL "C" and "D".

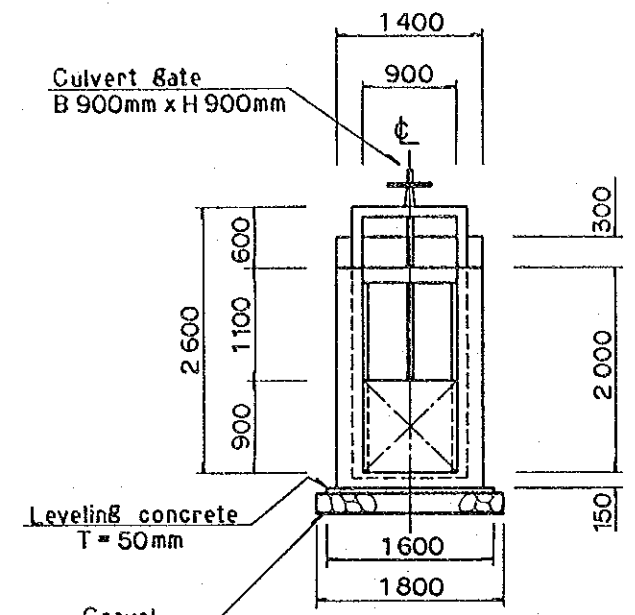
THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING CANAL STRUCTURES REPLACEMENT OF CHECK GATE (MAIN CANAL, STA 3+106)		
DATE	DRAWING NO.	3004
JAPAN INTERNATIONAL COOPERATION AGENCY		



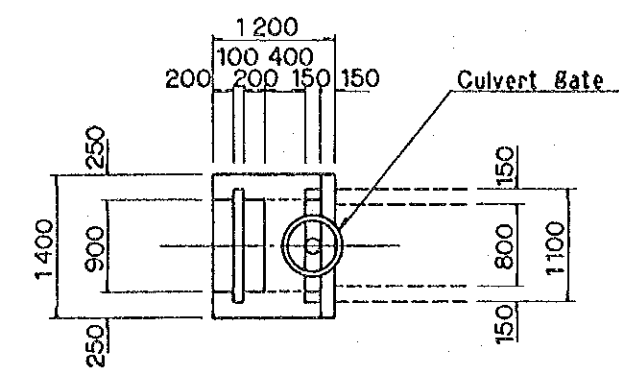
PLAN  
SCALE - A



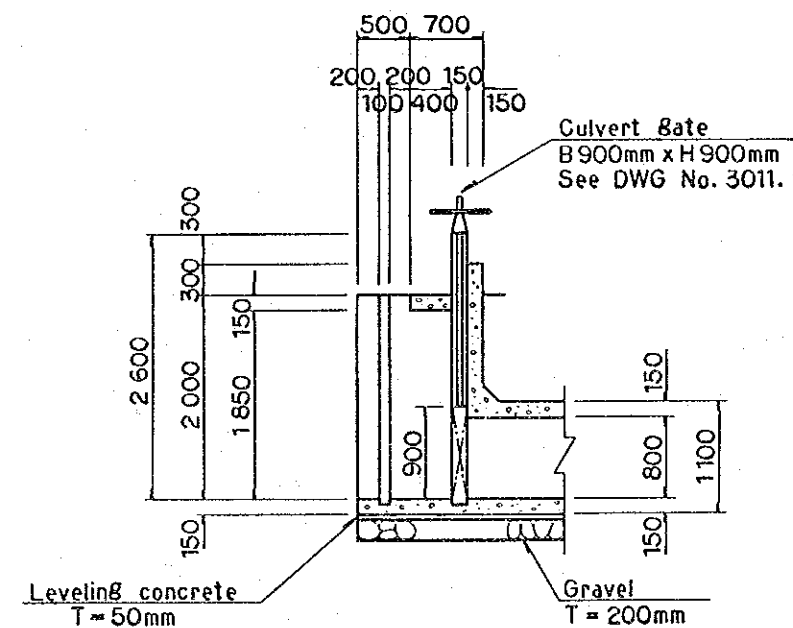
SECTION A-A  
SCALE - A



SECTION B-B  
SCALE - B



DETAIL "C"  
SCALE - B

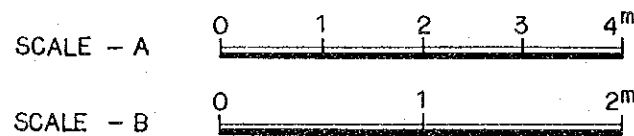
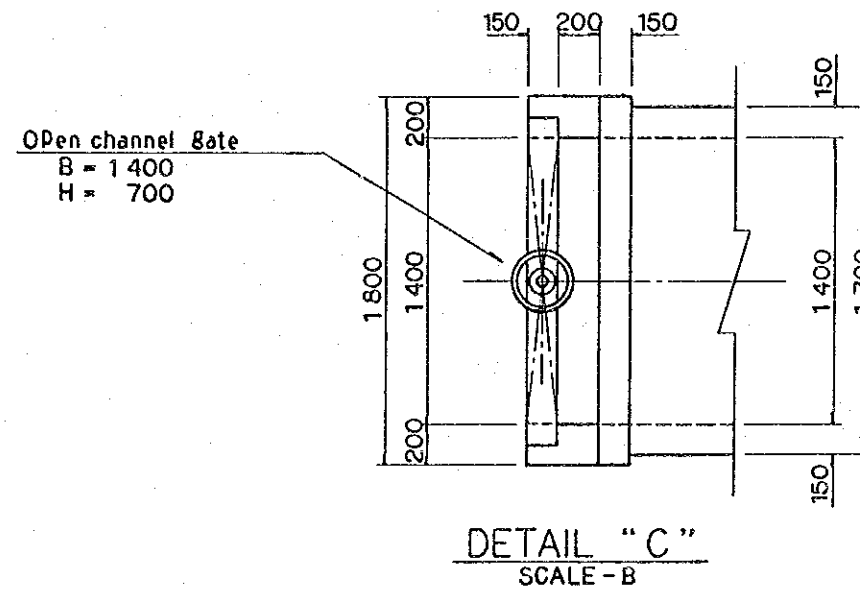
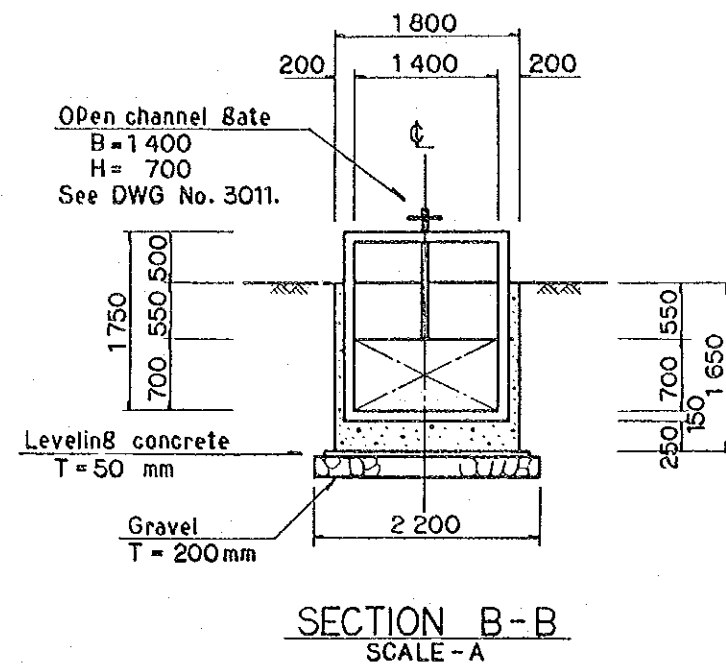
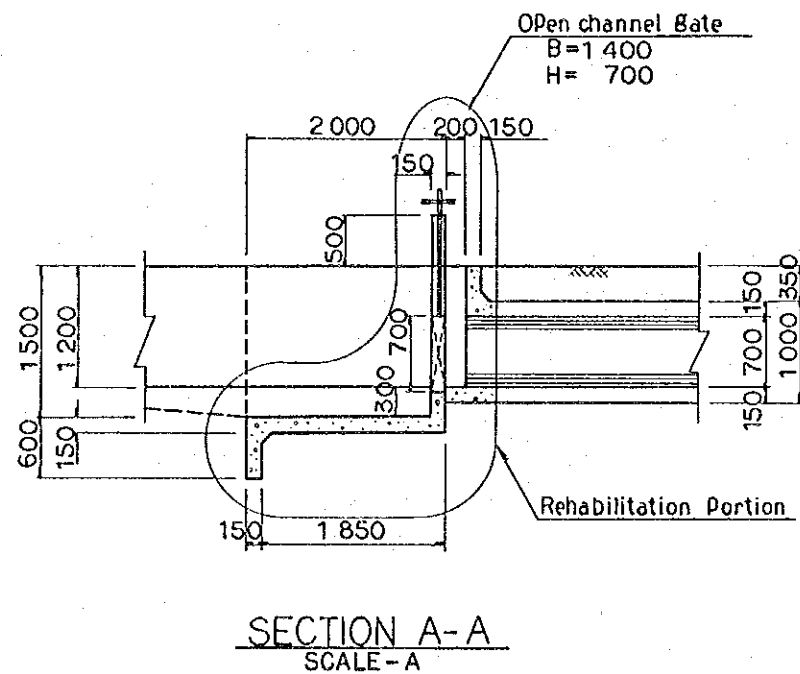
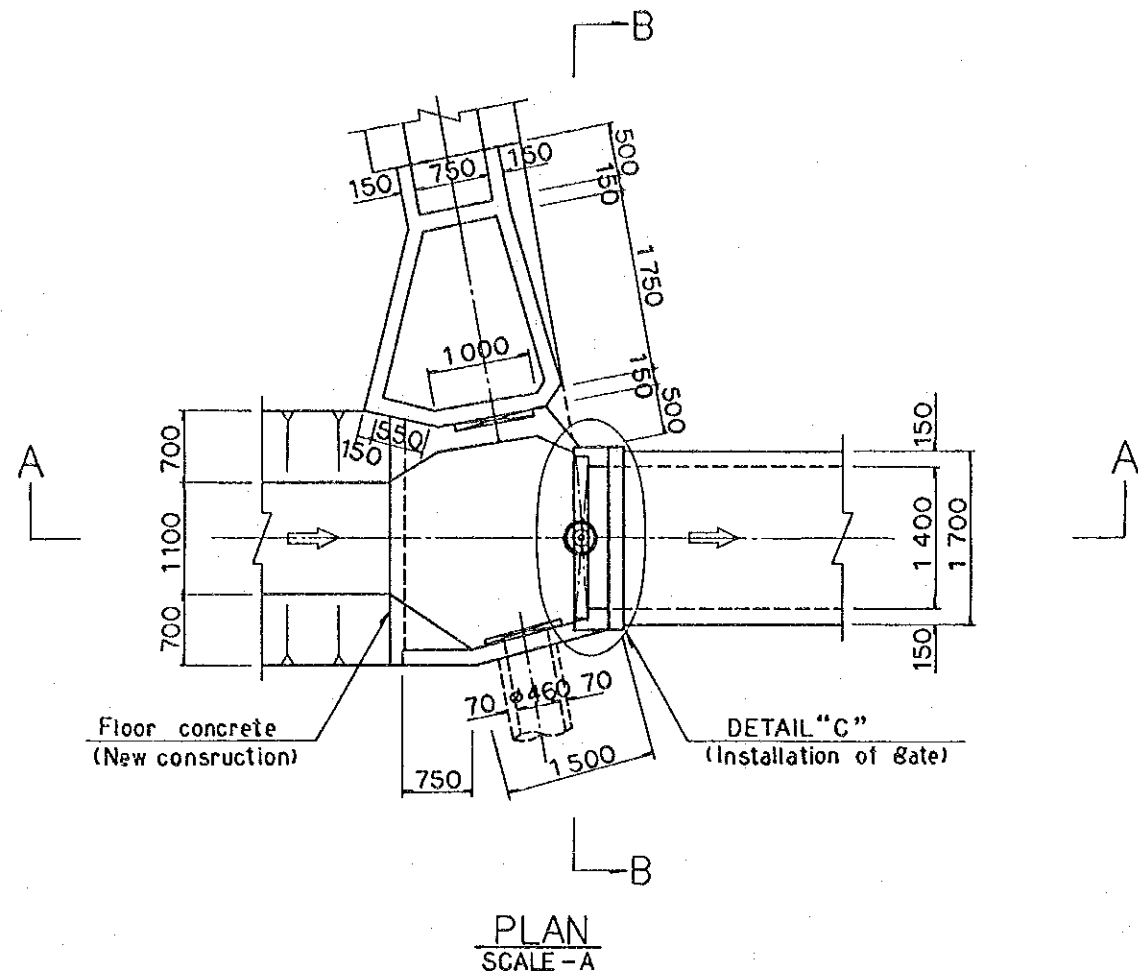


DETAIL "D"  
SCALE - B

Note :  
Rehabilitation portion is shown in  
DETAIL "C" and "D".

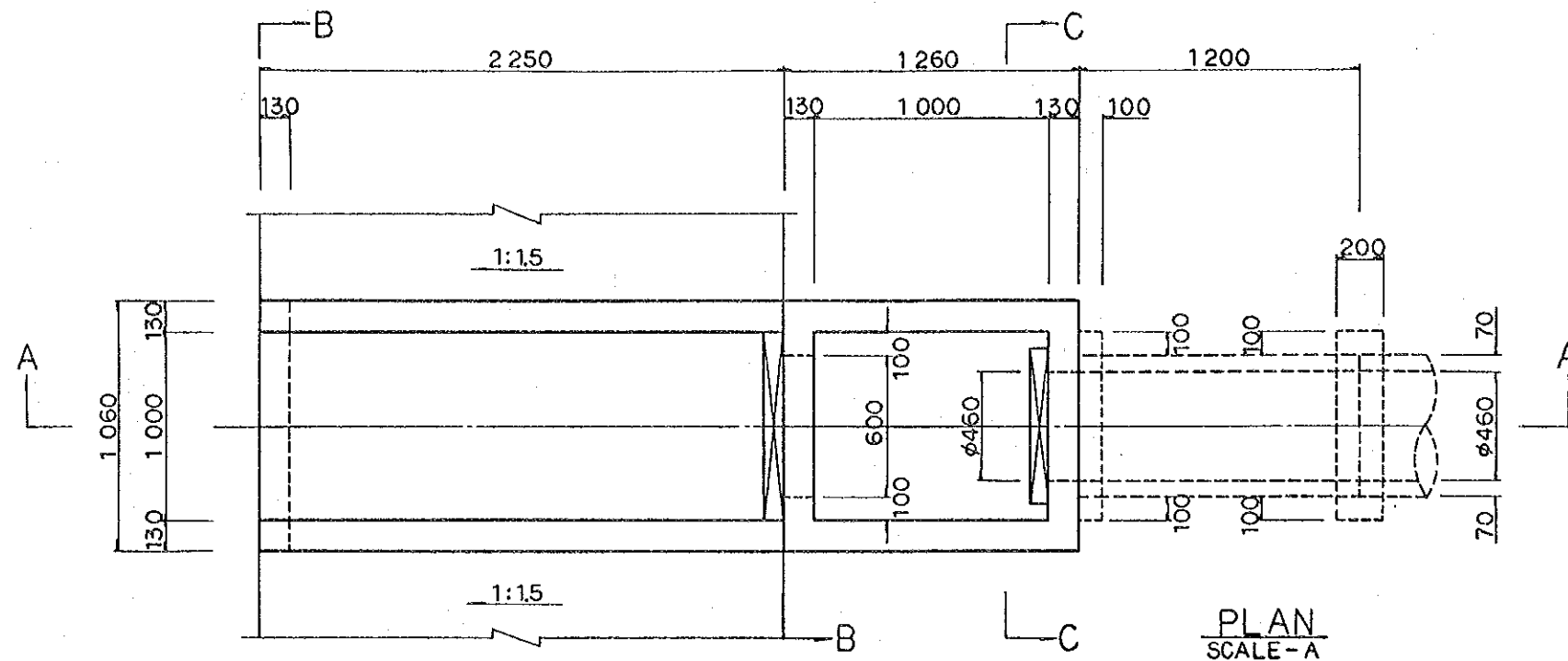


THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING CANAL STRUCTURES REPLACEMENT OF HEAD GATE (LATERAL B, STA 3+830)			
DATE		DRAWING NO.	3005
JAPAN INTERNATIONAL COOPERATION AGENCY			

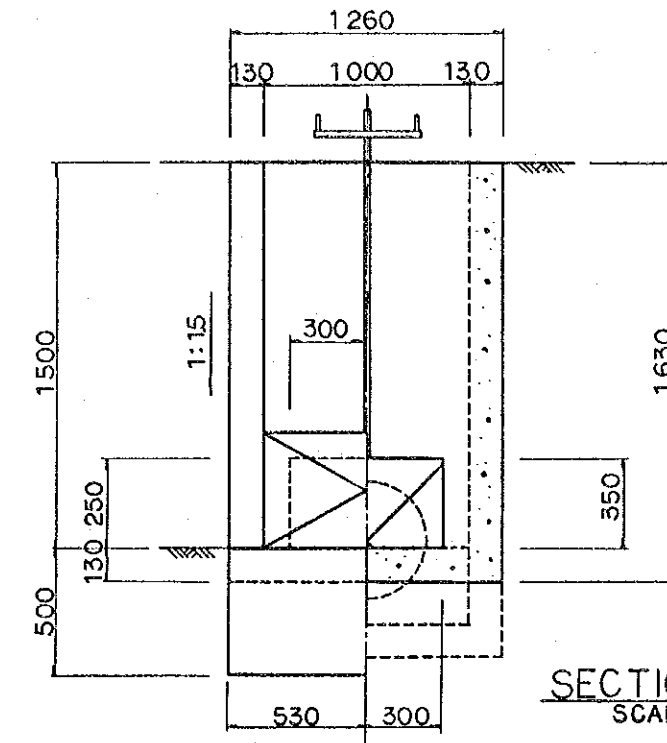


Note: Rehabilitation work consists of check Gate installation and floor concrete placing.

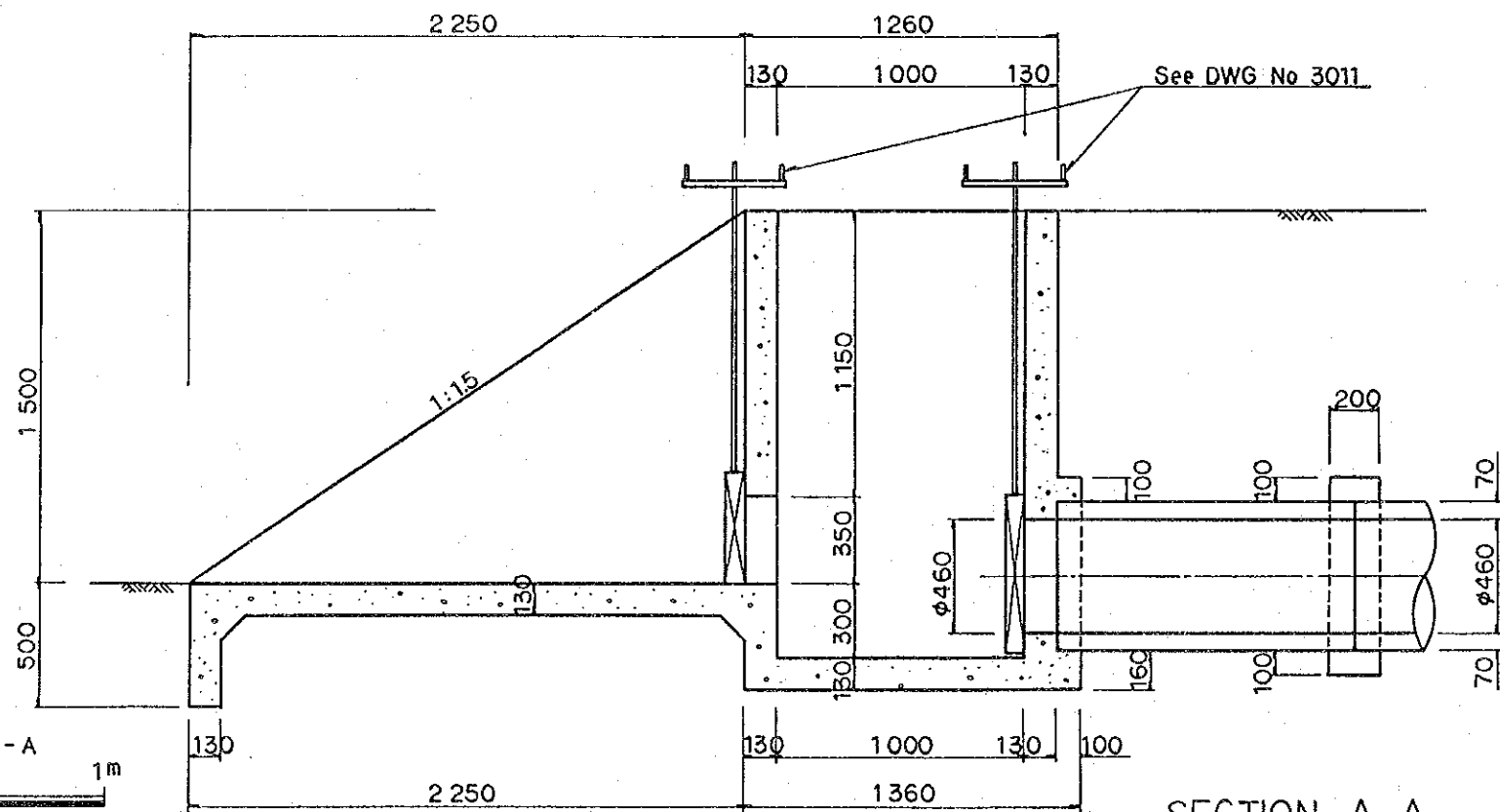
THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING CANAL STRUCTURES REPLACEMENT OF CHECK GATE (LATERAL D, STA 2+890)		
DATE	DRAWING NO.	3006
JAPAN INTERNATIONAL COOPERATION AGENCY		



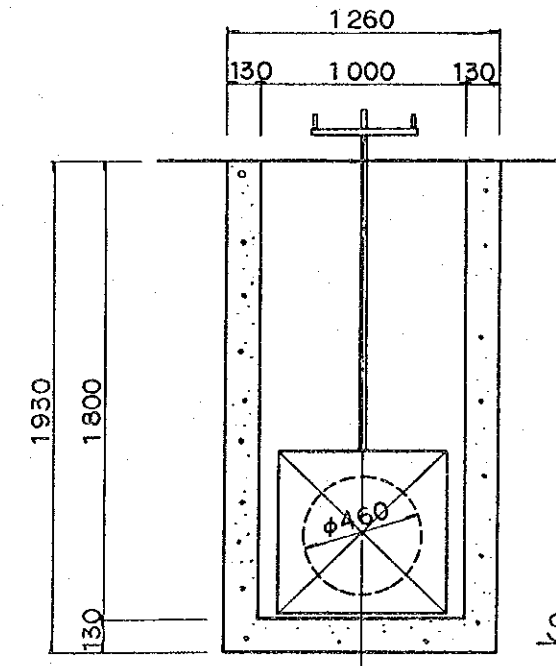
PLAN  
SCALE - A



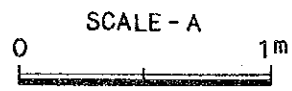
SECTION B-B  
SCALE - A



SECTION A-A  
SCALE - A



SECTION C-C  
SCALE - A



LIST OF TURNOUTS TO BE REHABILITATED

Canal Name	Station No.	Nos. of Stru.	Canal Name	Station No.	Nos. of Stru.
Main	1+750 -Right	1	Lateral B	0+795 -Right and Left	2
Main	5+090 -Right	1	Lateral B	1+185 -Left	1
Main	5+500 -Right	1	Lateral B	1+510 -Right and Left	2
Main	5+995 -Left	1	Lateral B	2+610 -Right and Left	2
Main	6+330 -Right	1	Lateral B	2+770 -Right	1
Main	6+660 -Right	1	Lateral B	3+150 -Right	1
Lateral A-2	0+345 -Right and Left	2	Lateral B	3+825 -Left	1
Lateral A-2	0+965 -Left	1	Lateral B	5+545 -Left	1
Lateral A-2	3+280 -Right	1	Lateral D	2+895 -Left	1

Note: Turnout structures to be rehabilitated are 22 in number and the locations of these structures are tabulated on the left. This drawing shows typical sections of the rehabilitation works for the 22 turnout structures.

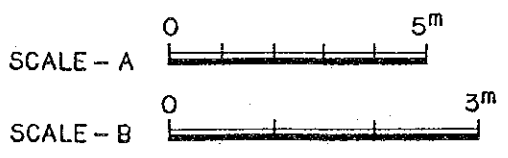
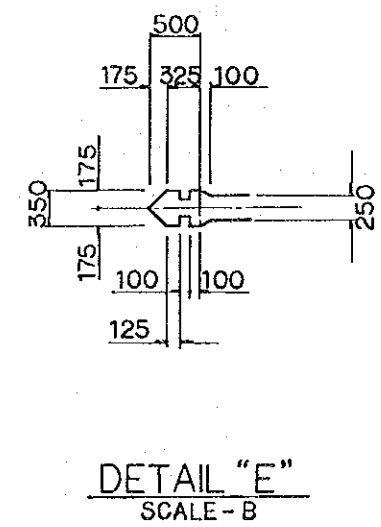
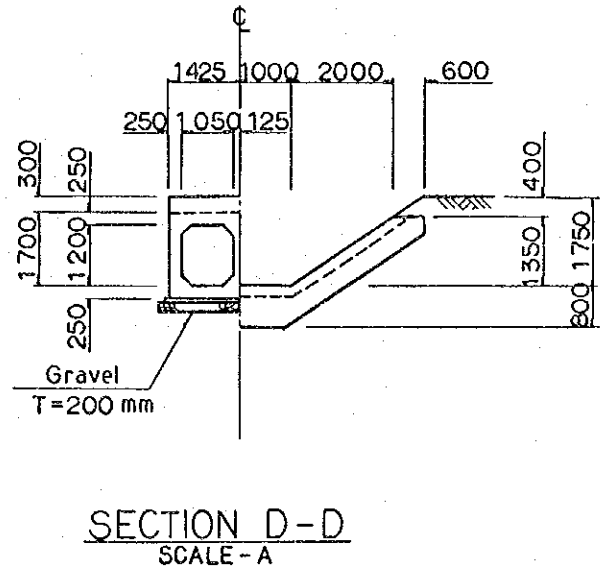
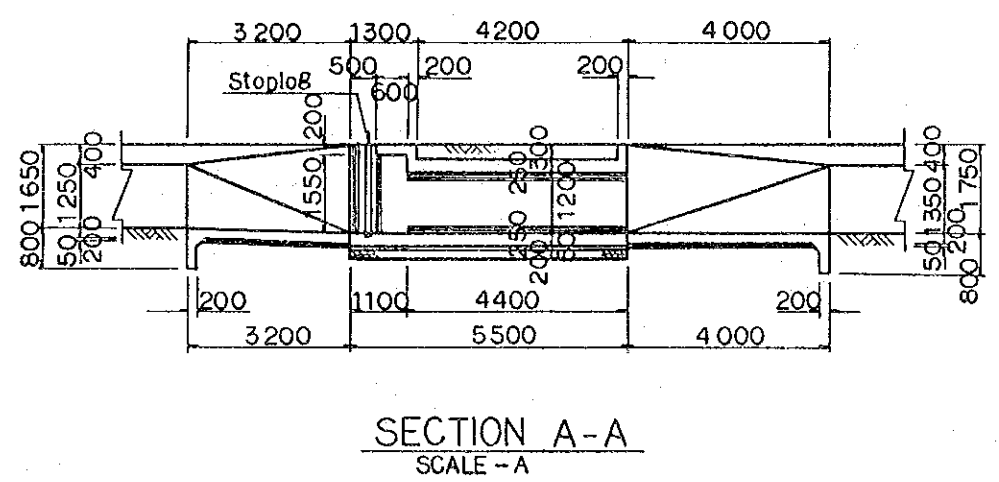
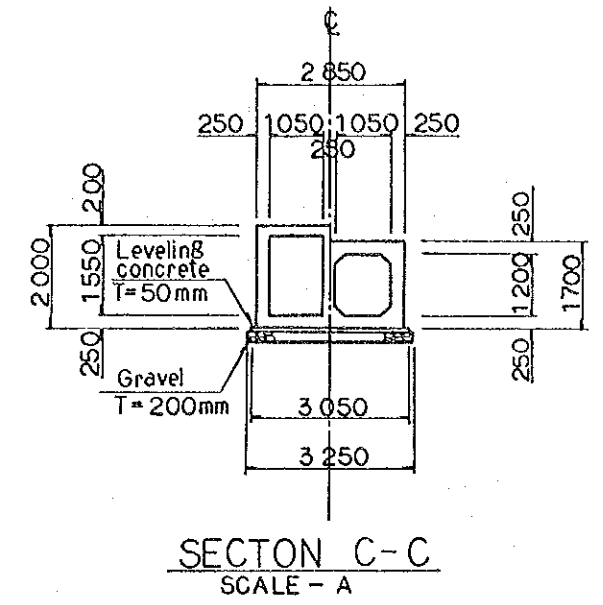
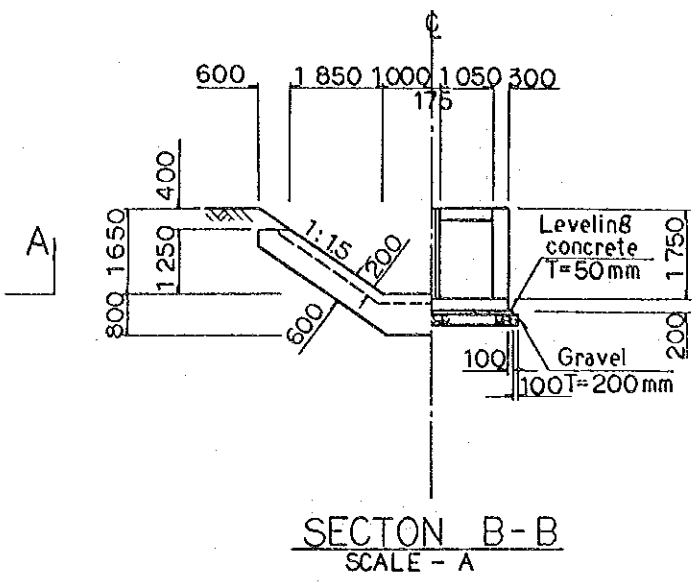
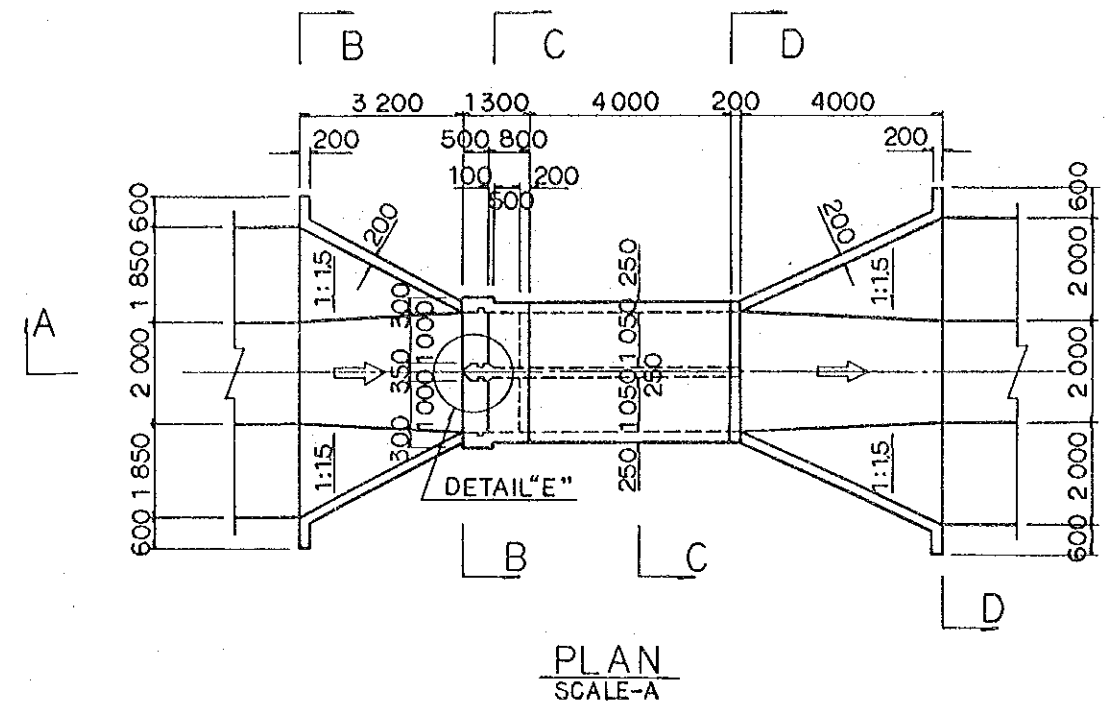
THE REPUBLIC OF THE PHILIPPINES

THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
CANAL STRUCTURES  
REPLACEMENT OF GATES FOR TURNOUTS

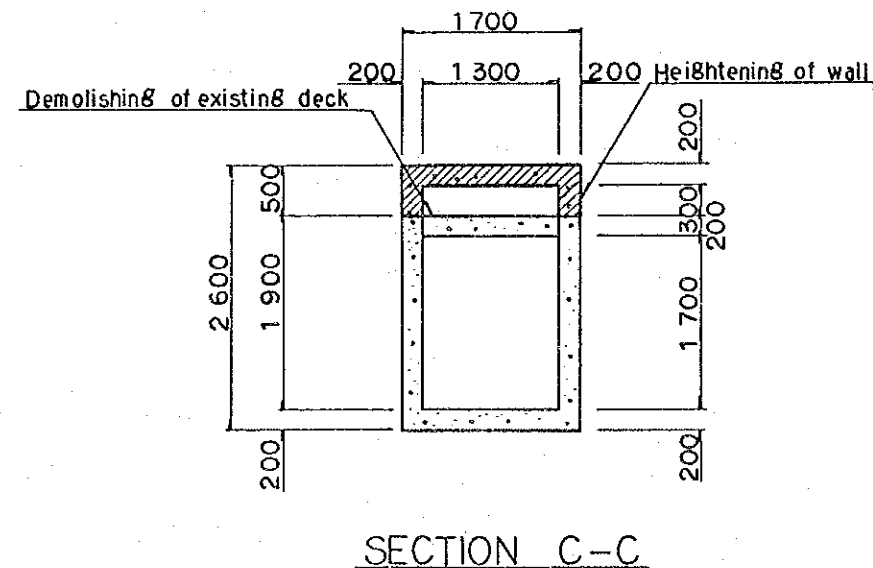
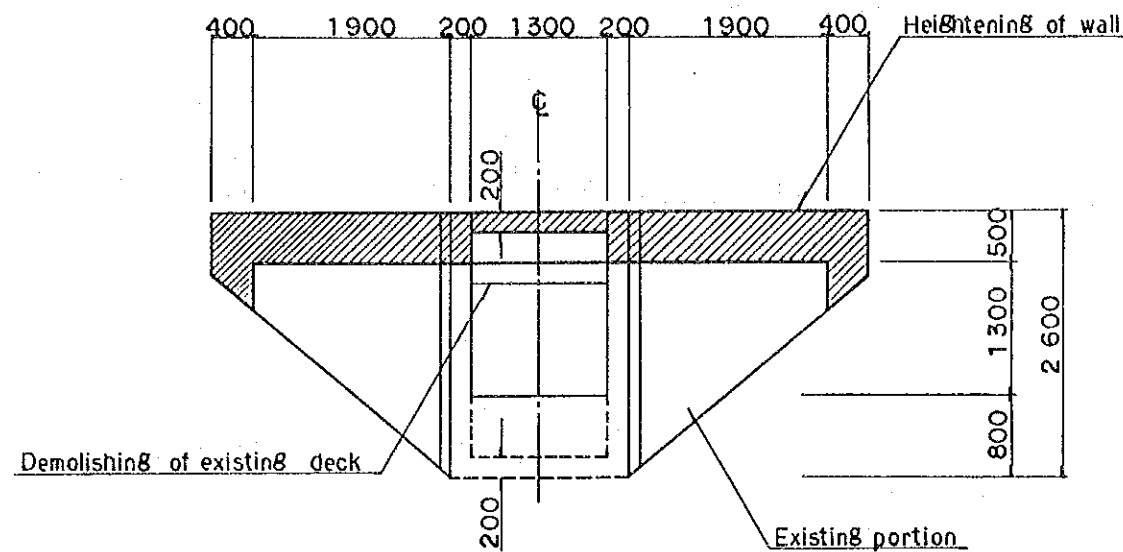
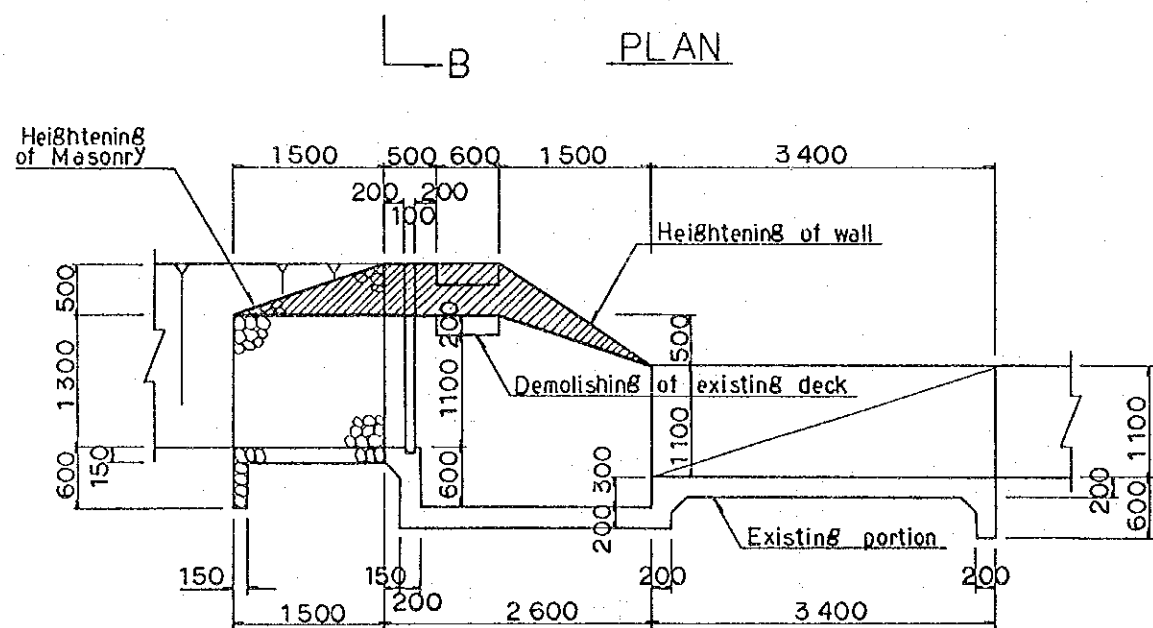
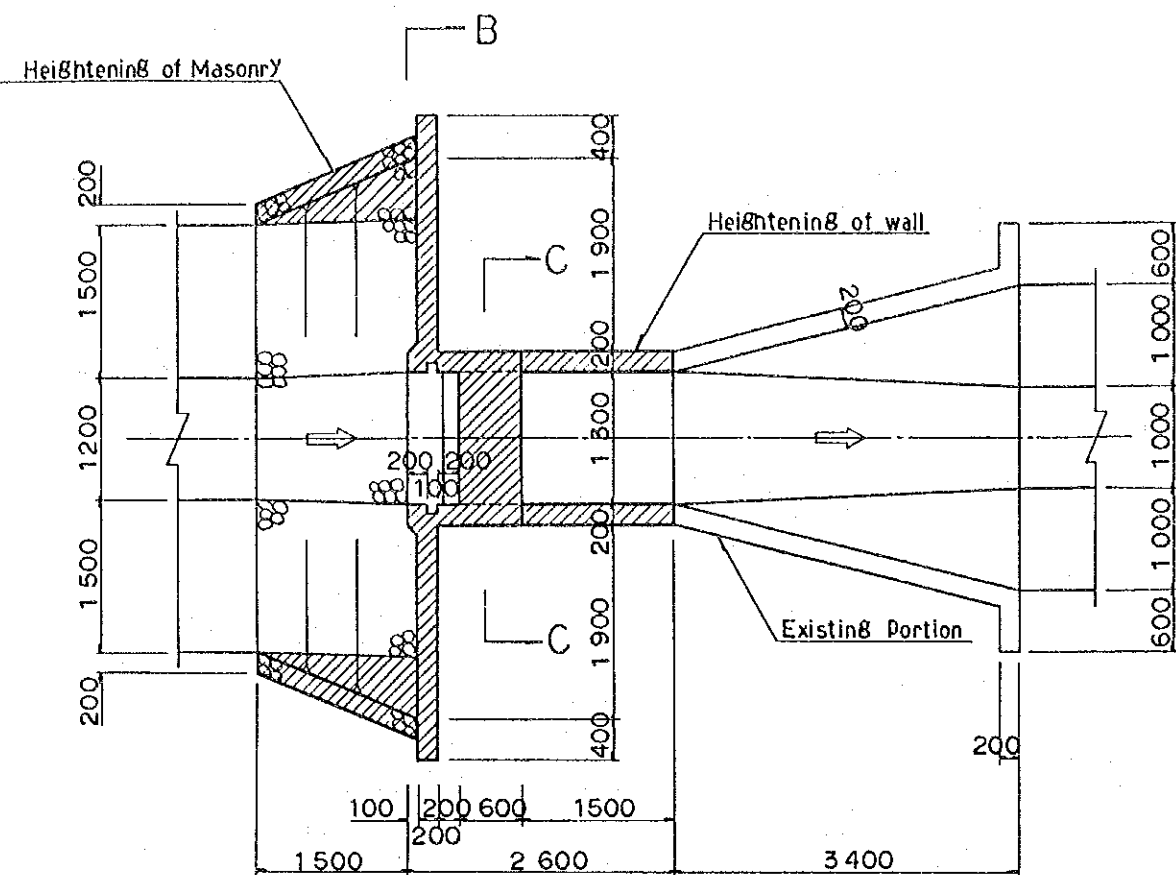
DATE	DRAWING NO.	3007
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JAPAN INTERNATIONAL COOPERATION AGENCY



Note : This structure shall be reconstructed after demolishing existing structure.

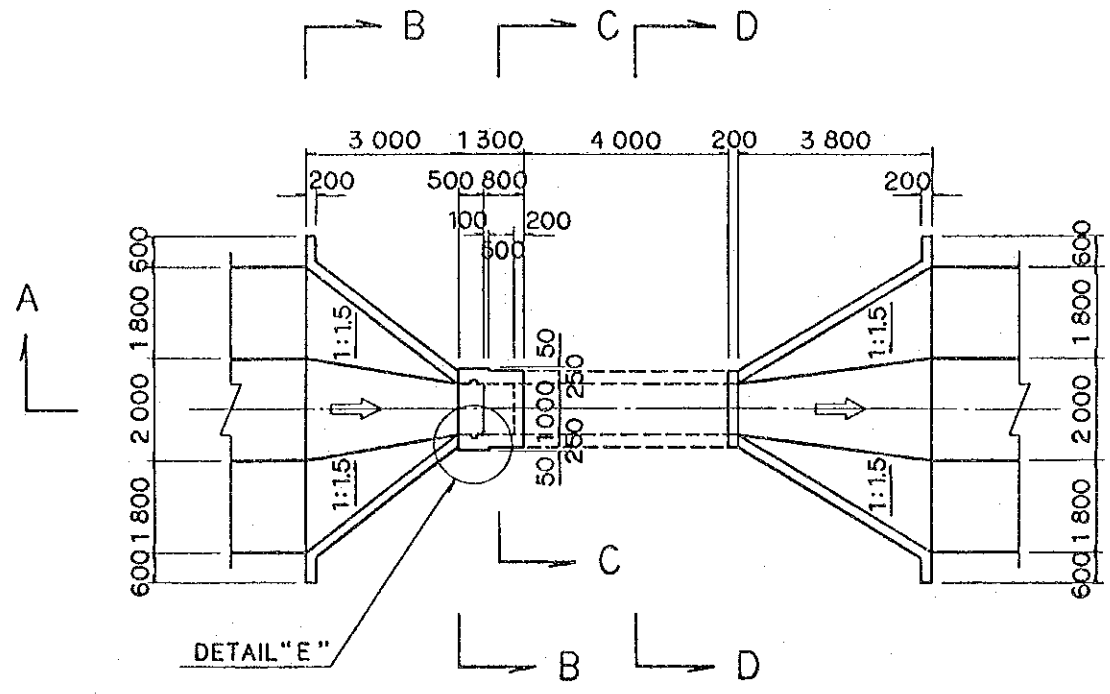
THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING CANAL STRUCTURES REHABILITATION OF THRESHER CROSSING WITH CHECK (LATERAL A-2, STA 1+540)		
DATE	DRAWING NO.	3008
JAPAN INTERNATIONAL COOPERATION AGENCY		



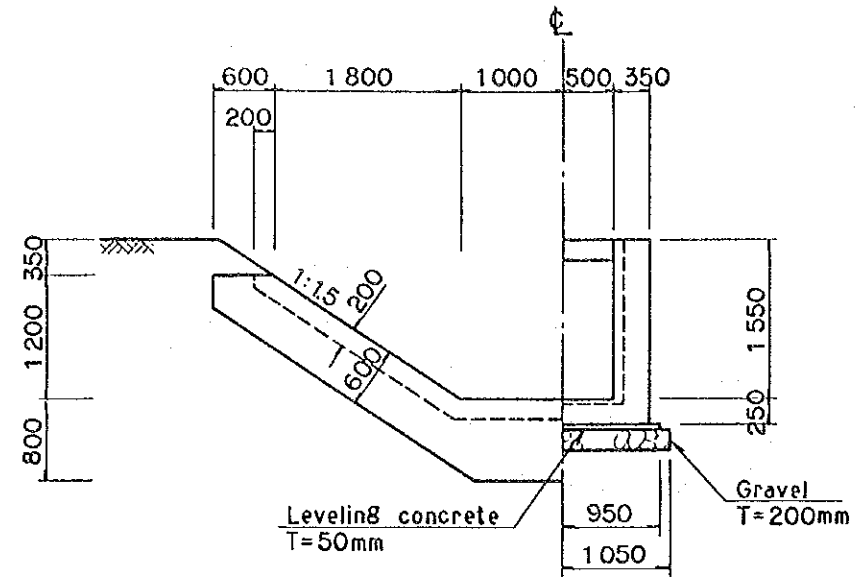
SCALE 0 3m

Note: This structure requires heightening work of masonry, wall and concrete deck after demolishing existing concrete deck.  
Structures to be heightened are hatched.

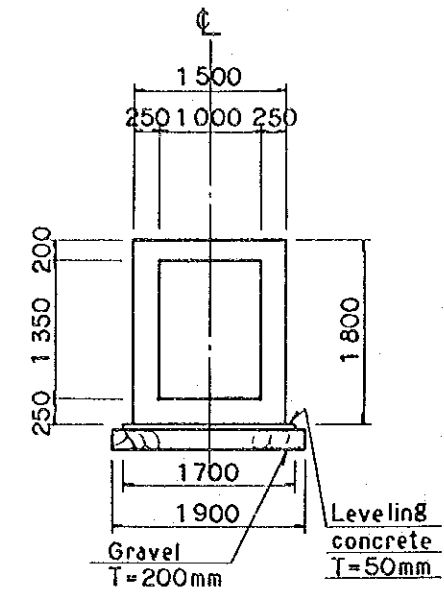
THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING CANAL STRUCTURES REHABILITATION OF CHECK WITH DROP (LATERAL B, STA 4+510)		
DATE	DRAWING NO.	3009
JAPAN INTERNATIONAL COOPERATION AGENCY		



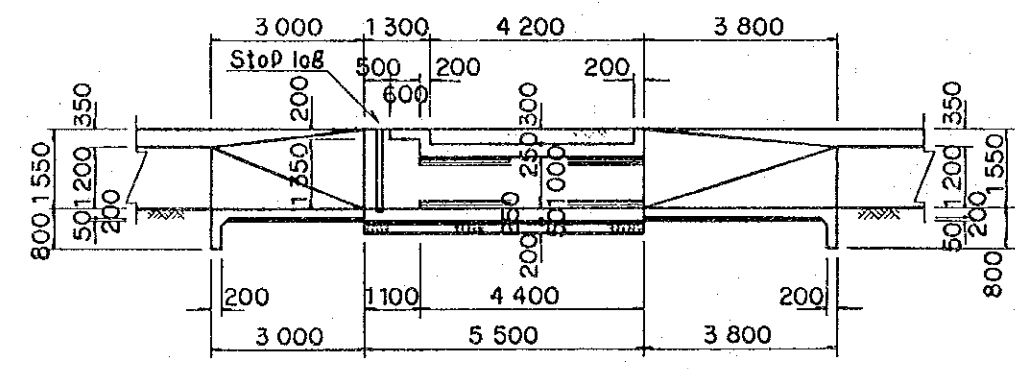
PLAN  
SCALE - A



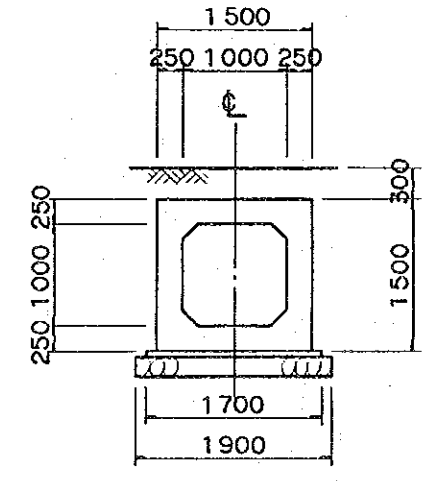
SECTION B-B  
SCALE - B



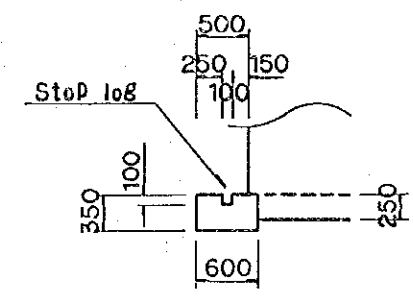
SECTION C-C  
SCALE - B



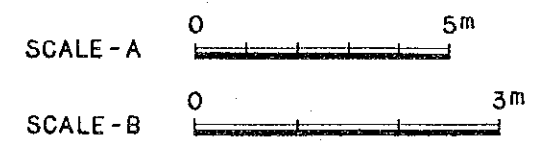
SECTION A-A  
SCALE - A



SECTION D-D  
SCALE - B

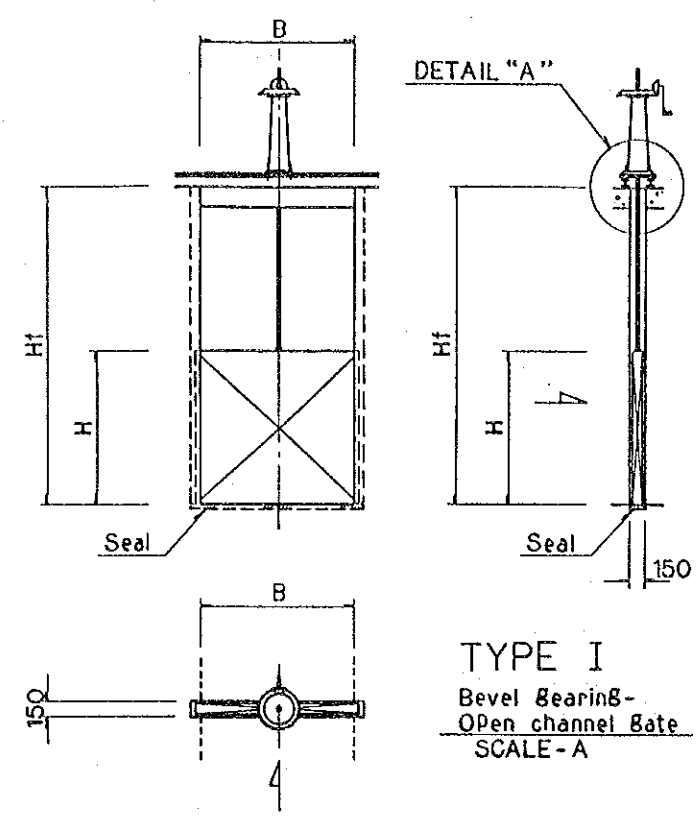


DETAIL "E"  
SCALE - B

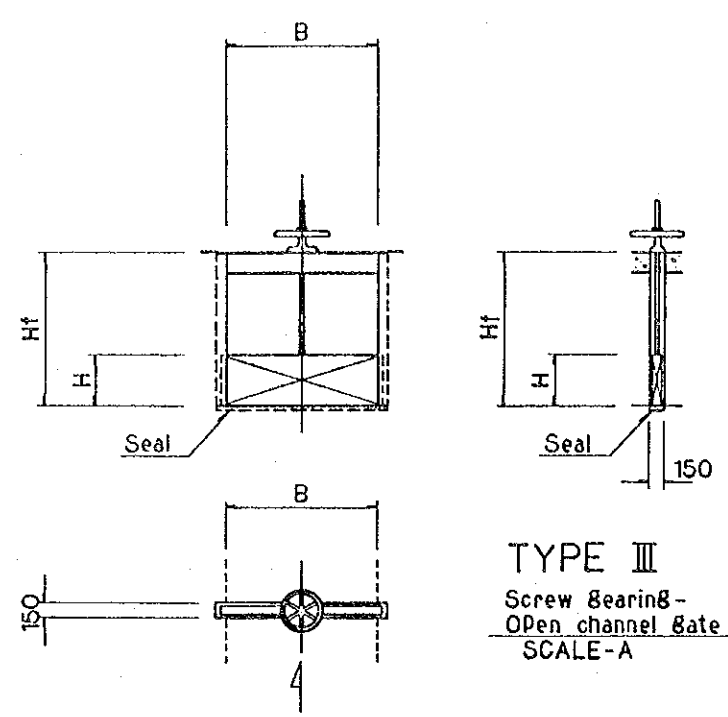


Note : This structure shall be newly constructed.

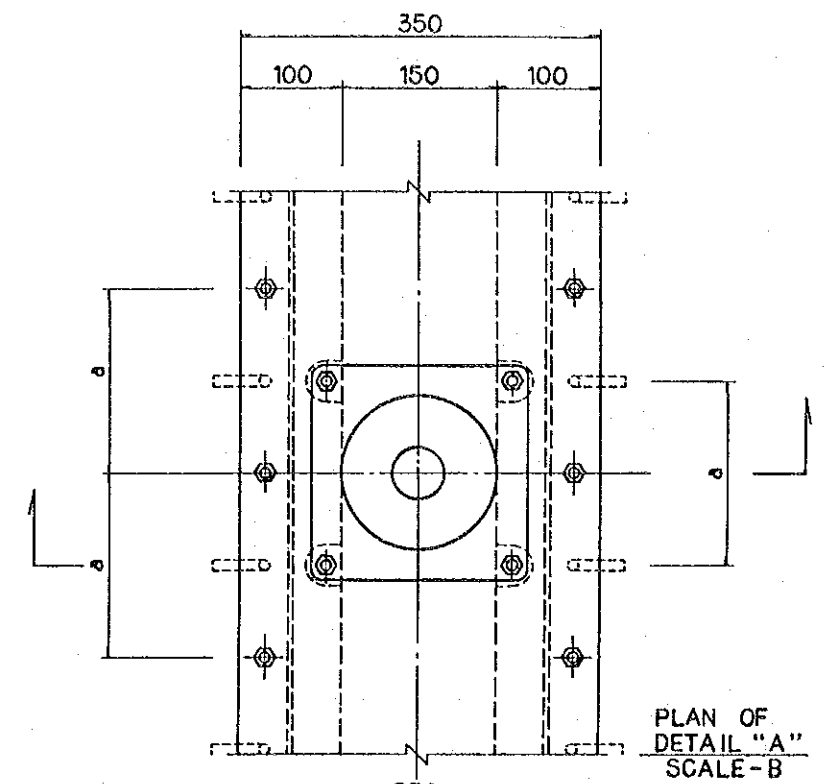
THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING CANAL STRUCTURES NEW CONSTRUCTION OF THRESHER CROSSING WITH CHECK (LATERAL A-2, STA 3+830)			
DATE		DRAWING NO.	3010
JAPAN INTERNATIONAL COOPERATION AGENCY			



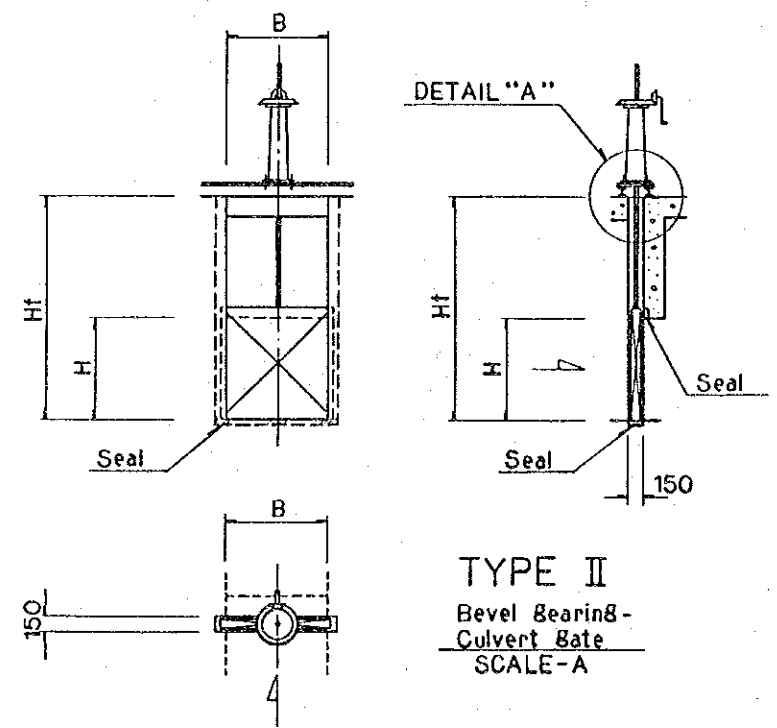
**TYPE I**  
Bevel Bearing-  
Open channel Gate  
SCALE-A



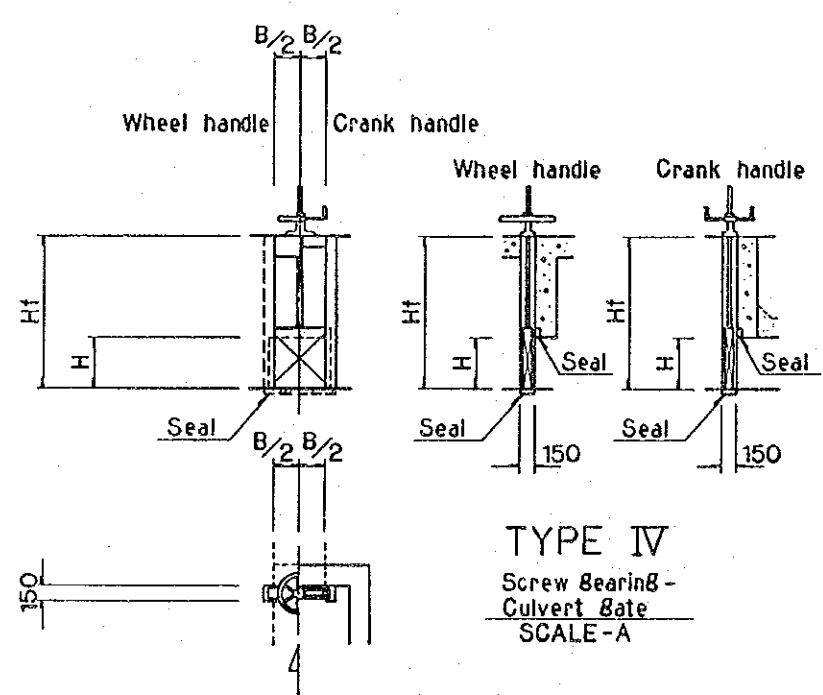
**TYPE III**  
Screw Bearing-  
Open channel Gate  
SCALE-A



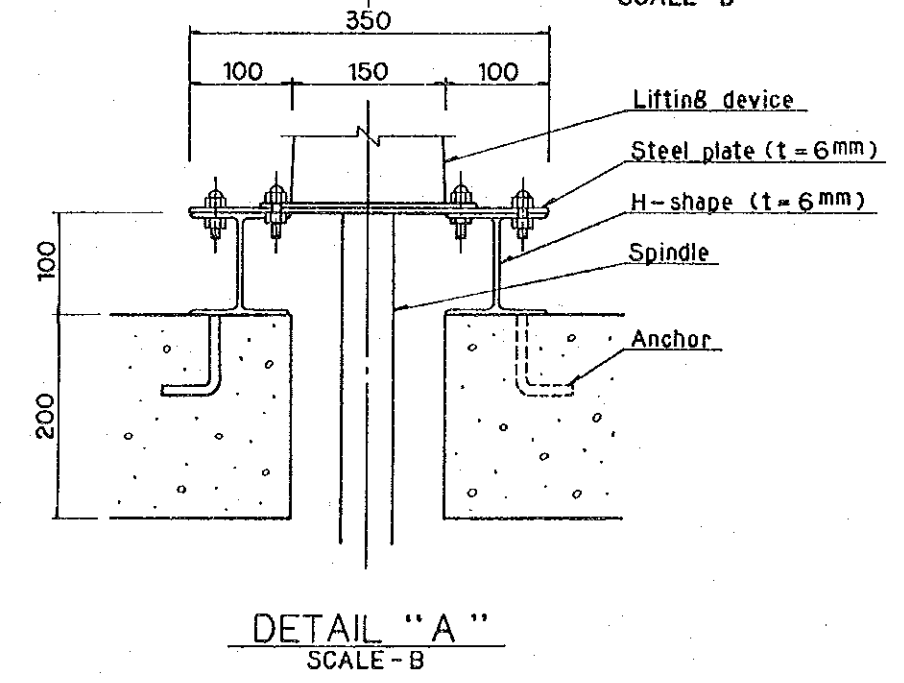
PLAN OF  
DETAIL "A"  
SCALE-B



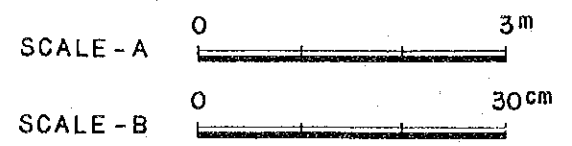
**TYPE II**  
Bevel Bearing-  
Culvert Gate  
SCALE-A



**TYPE IV**  
Screw Bearing-  
Culvert Gate  
SCALE-A



DETAIL "A"  
SCALE-B



DIMENSION TABLE OF STEEL SLIDE GATE

Name of Structures	Check Gate	Check Gate	Head Gate	Check Gate	Head Gate	Turnouts (The followings are typical dimensions.) See DWG No. 3007. (22 units)		
	Main 2+200	Main 2+773	of Lateral A Main 2+773	Main 3+108	of Lateral B-3 Lateral B 3+830		Lateral D 2+890	IV
Gate Type	I	I	II	I	IV	III	IV	IV
Numbers of Gates (nos.)	3	3	3	2	1	1	22	22
B effective width (mm)	1 400	1 500	1 000	1 400	800	1 400	600	460
H effective height (mm)	1 500	1 500	900	1 600	800	700	350	460
Hf guide frame h. (mm)	2 600	2 900	2 200	2 700	2 600	1 750	1 500	1 800
Water Depth (m)	2.4	2.0	2.0	2.0	0.9	0.9	1.3	1.5
Handle Type	Crank	Crank	Crank	Crank	Wheel	Wheel	Crank	Crank

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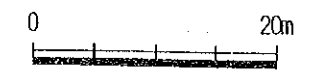
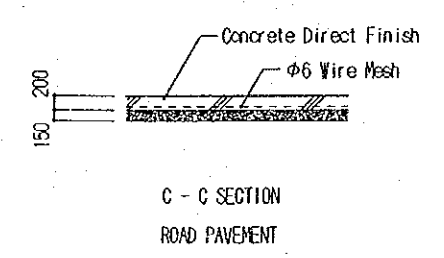
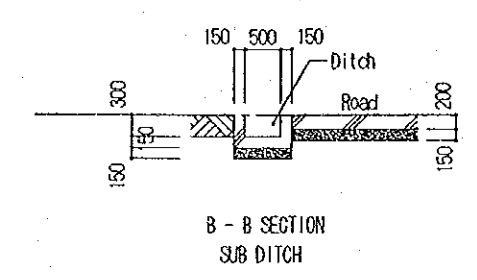
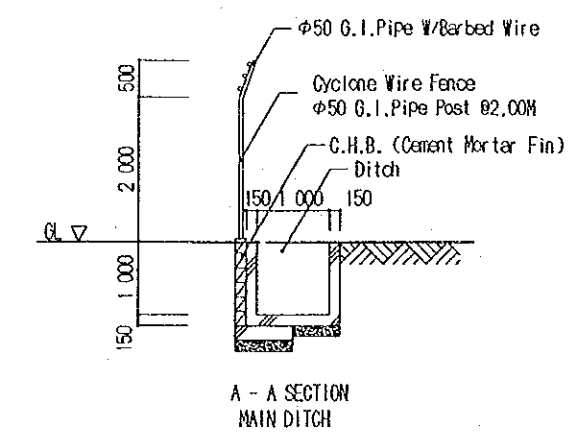
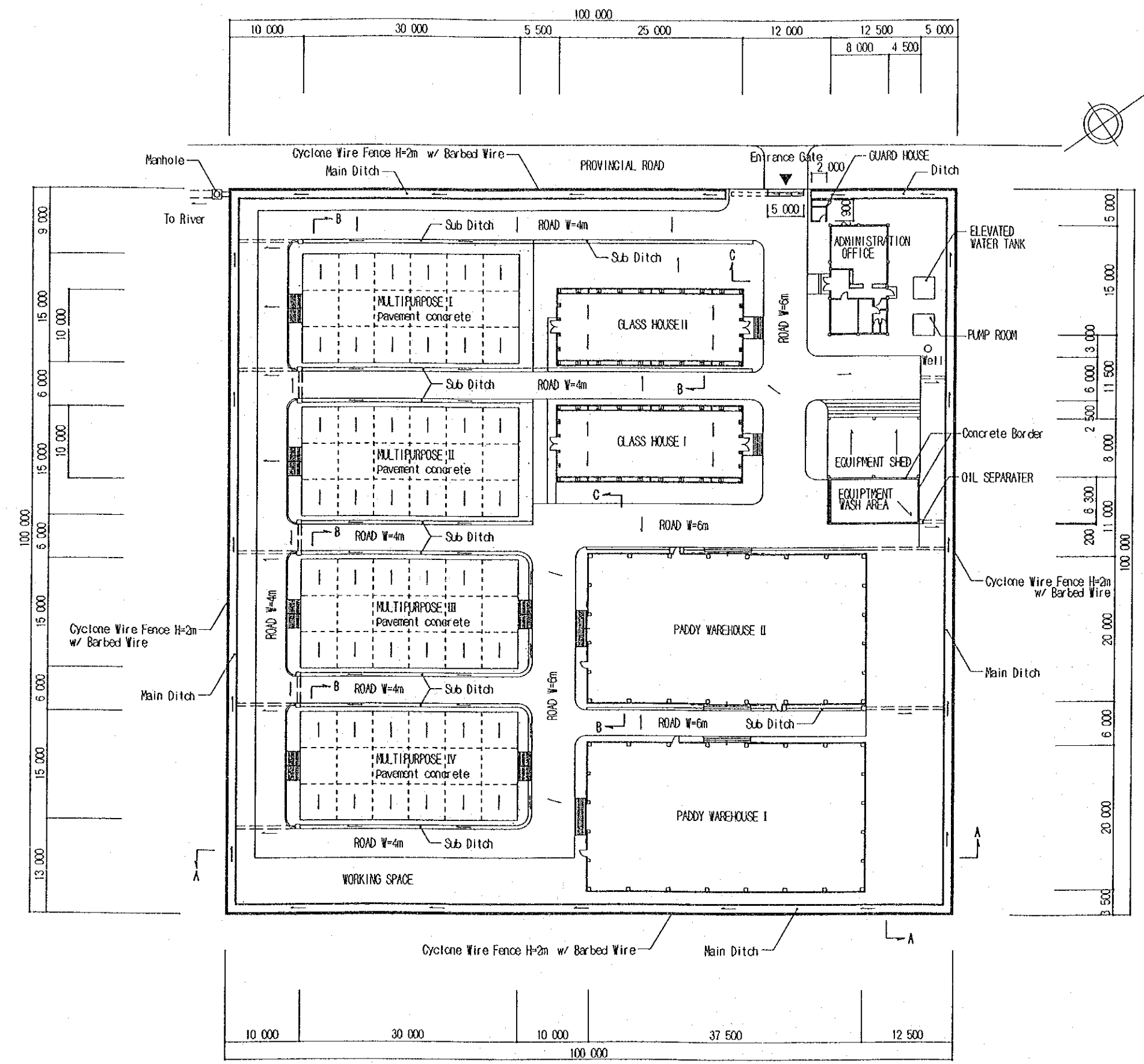
THE OPTIMUM WATER UTILIZATION  
AND RURAL DEVELOPMENT PROJECT  
IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
CANAL STRUCTURES  
STEEL SLIDE GATE

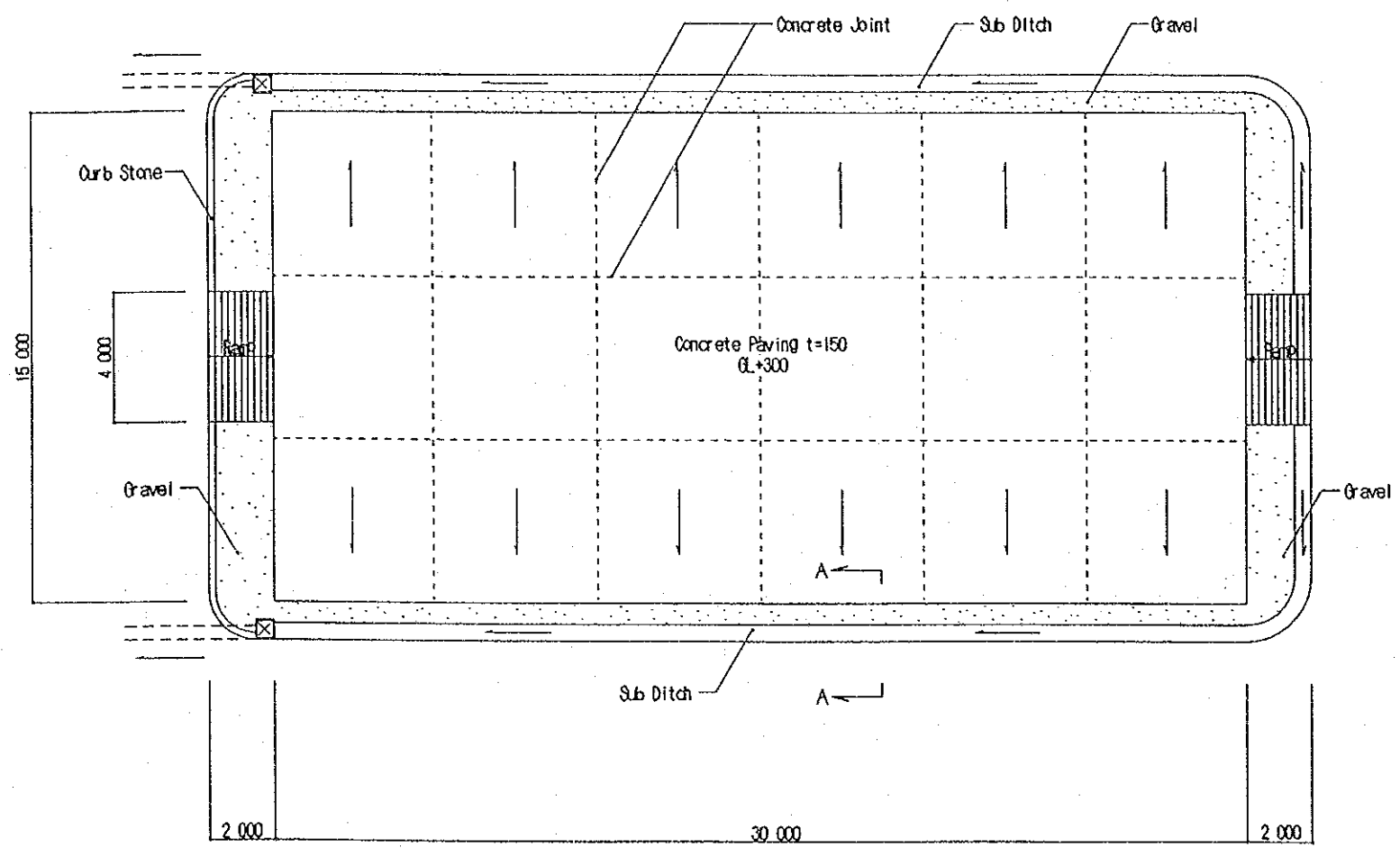
DATE	DRAWING NO.	3011
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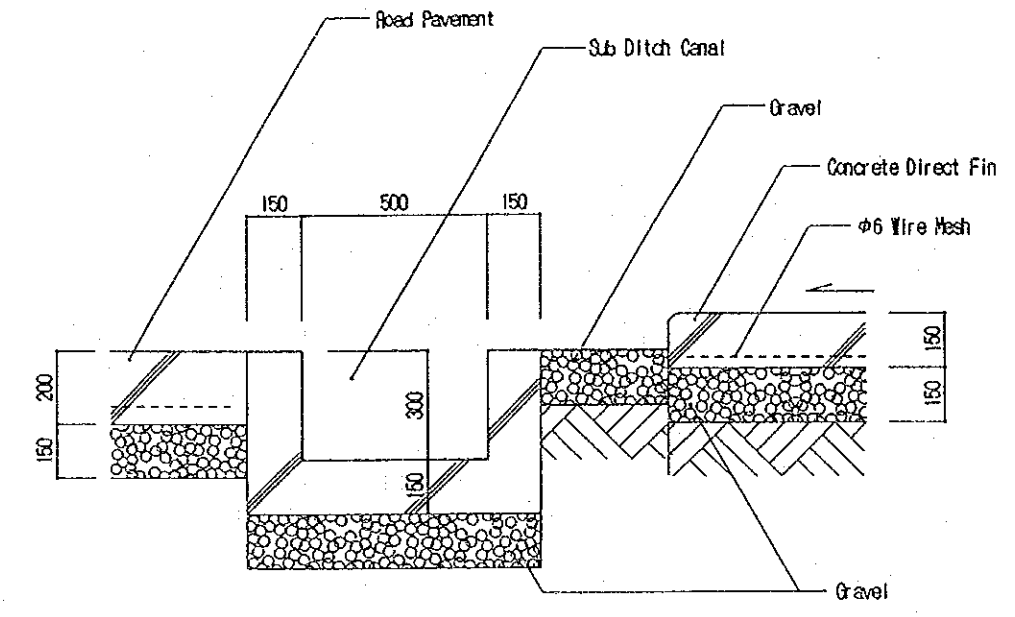




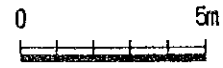
THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING POST HARVEST FACILITY GENERAL PLAN			
DATE		DRAWING NO.	4001
JAPAN INTERNATIONAL COOPERATION AGENCY			



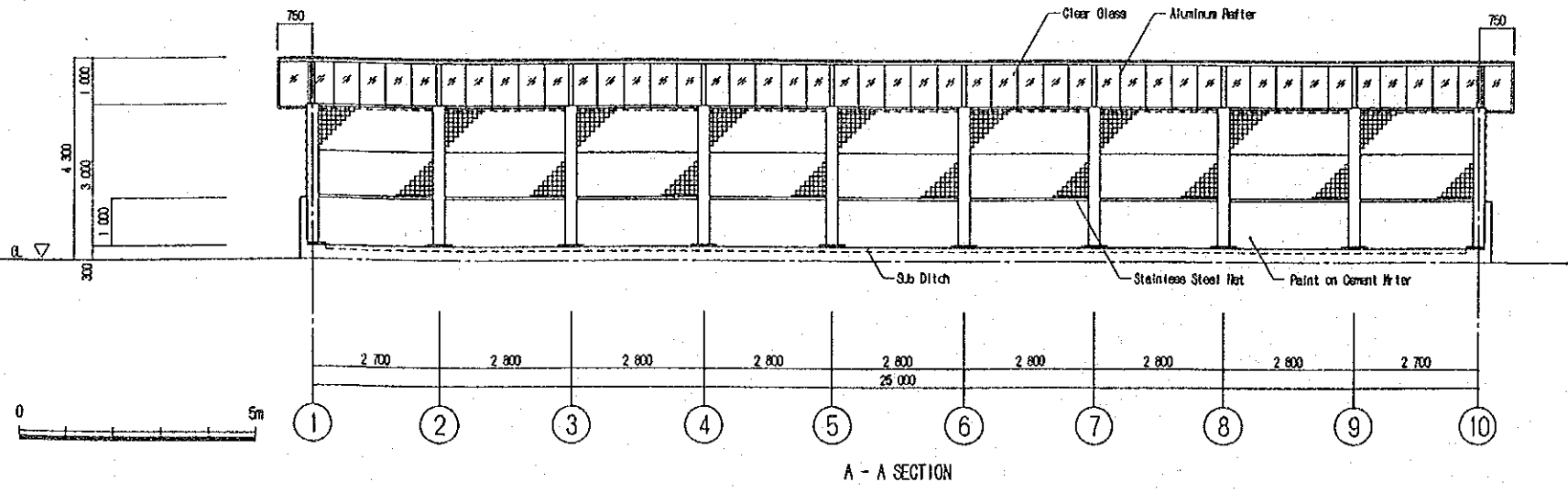
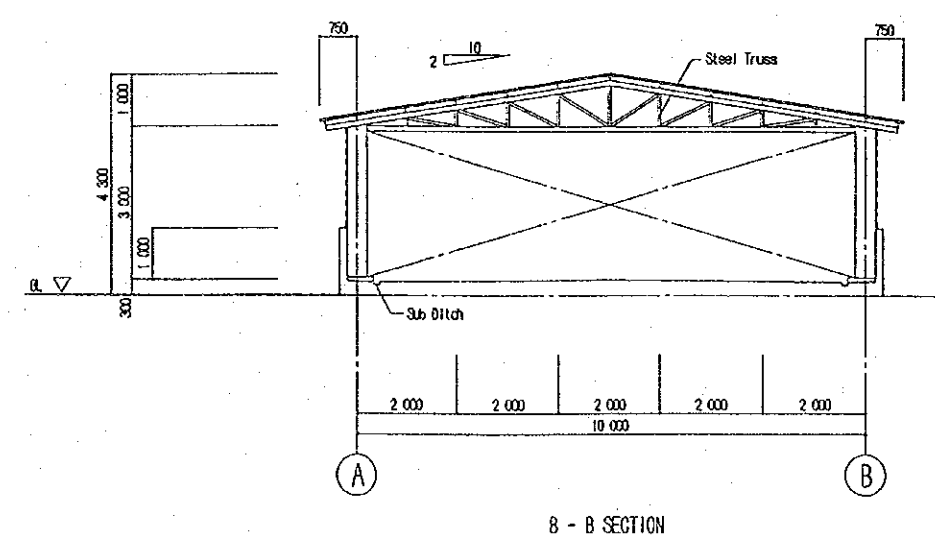
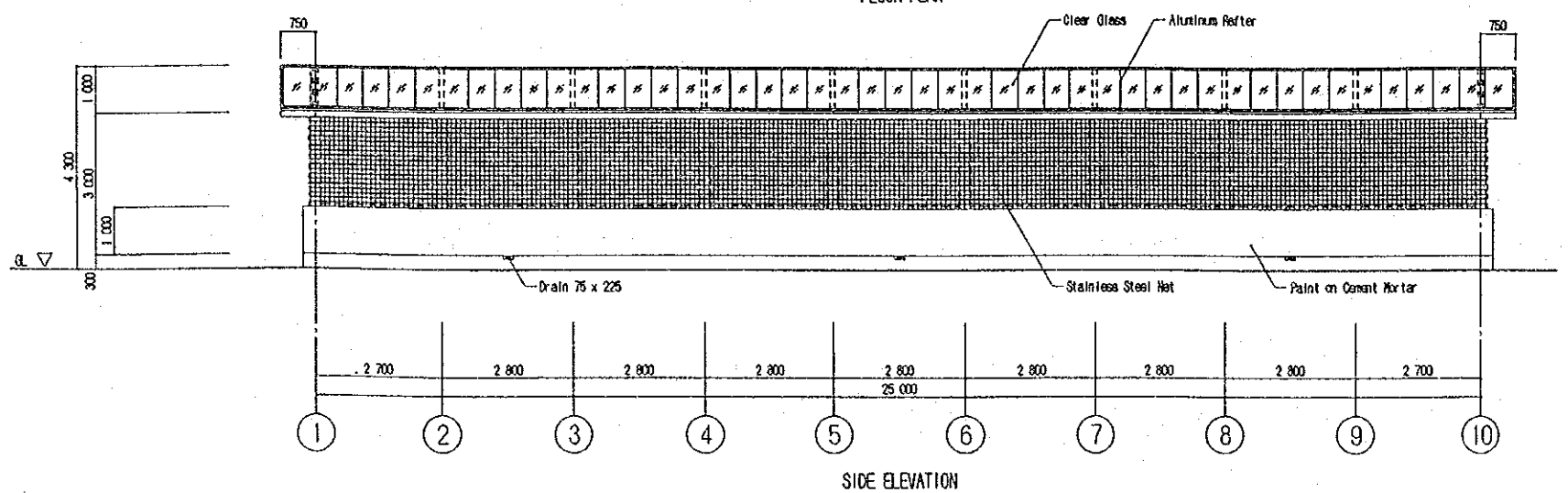
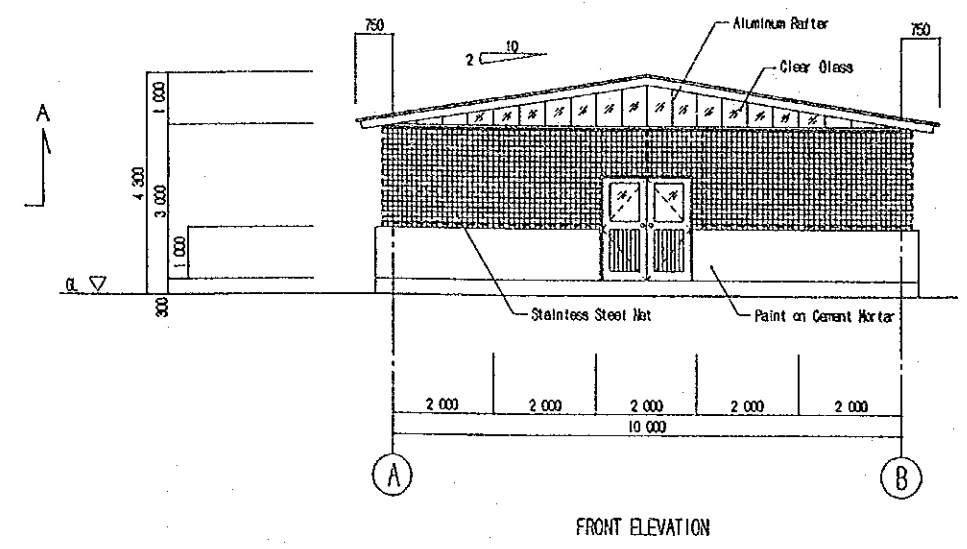
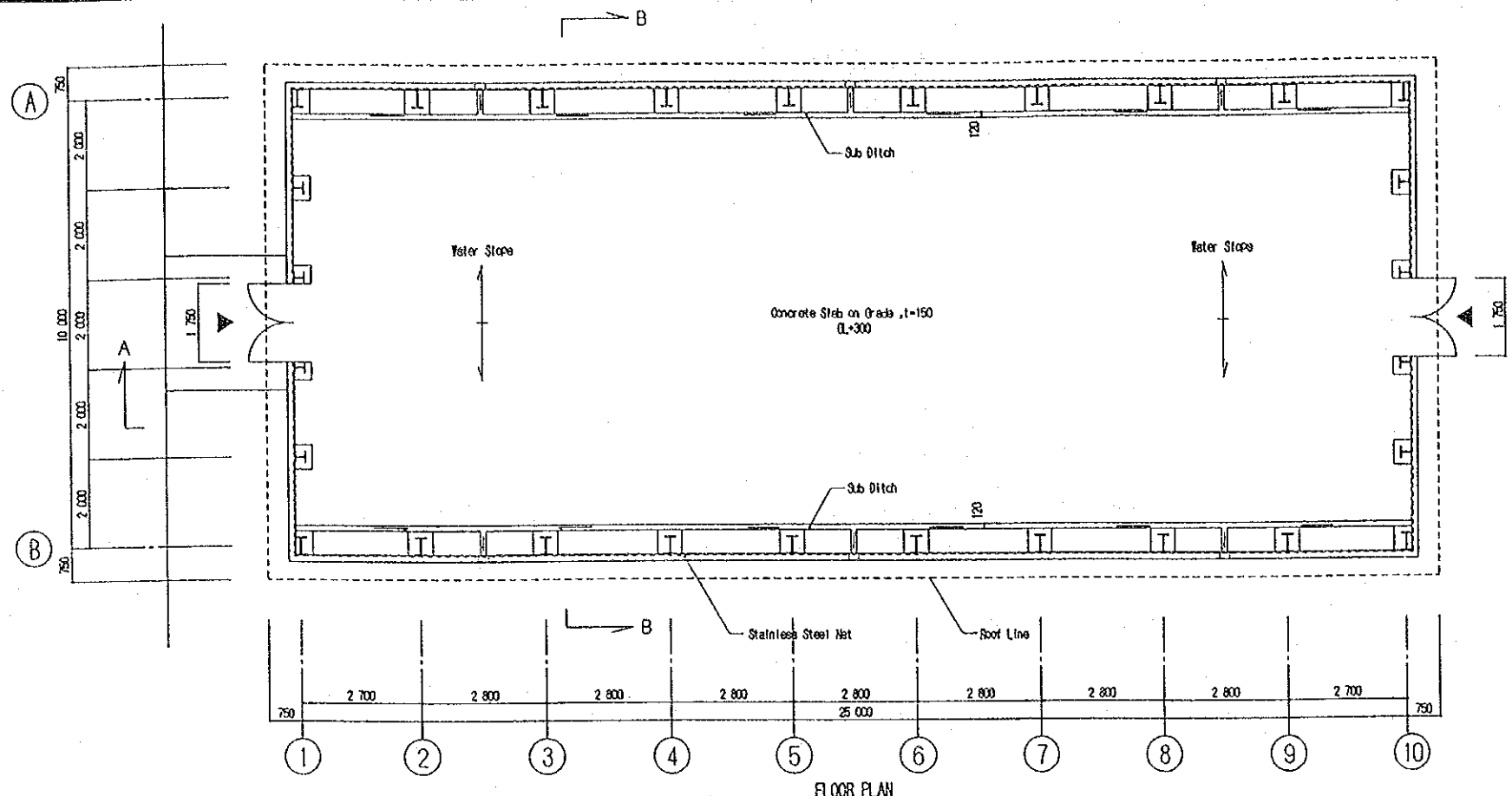
FLOOR PLAN



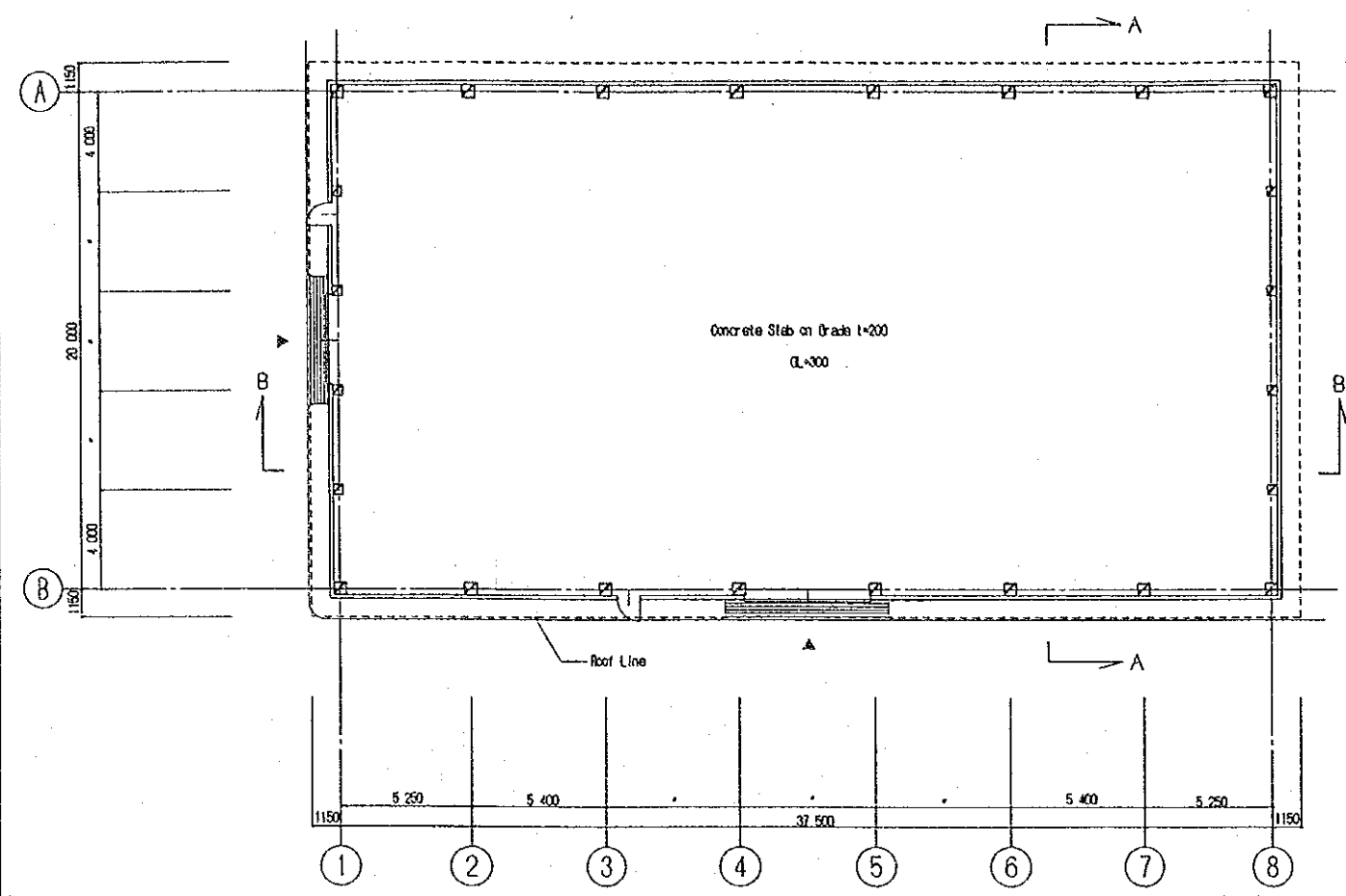
A - A SECTION



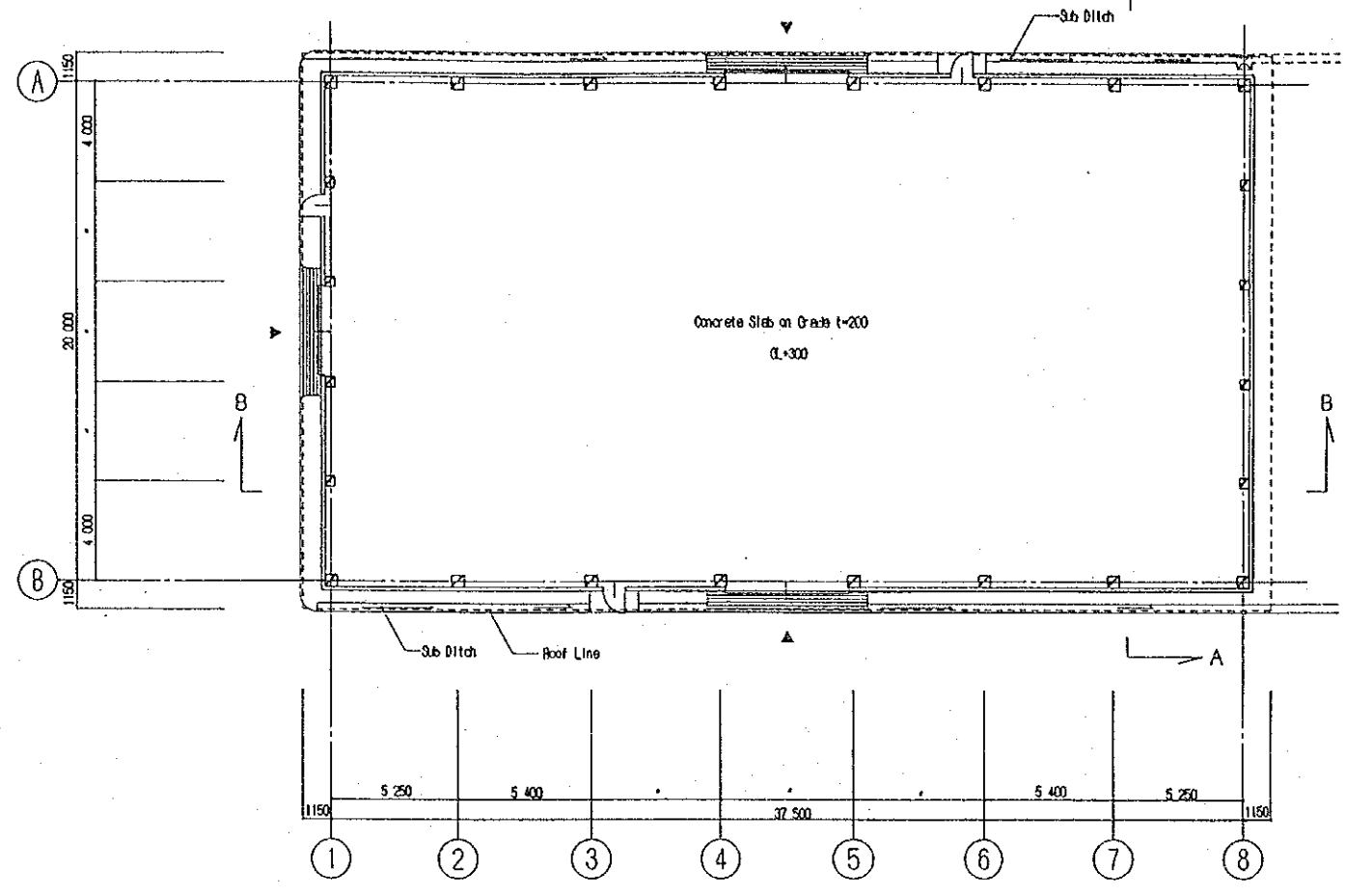
THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGAPAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING POST HARVEST FACILITY MULTIPURPOSE PAVEMENT			
DATE		DRAWING NO.	4002
JAPAN INTERNATIONAL COOPERATION AGENCY			



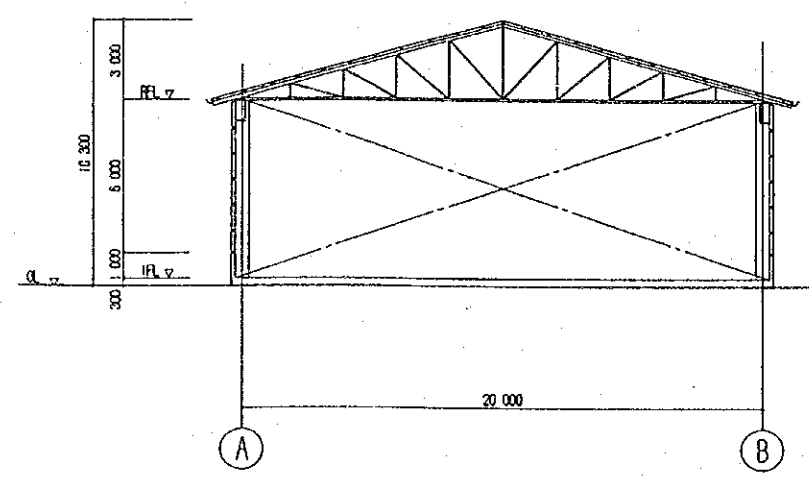
THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING POST HARVEST FACILITY GLASS HOUSE		
DATE	DRAWING NO.	4003
JAPAN INTERNATIONAL COOPERATION AGENCY		



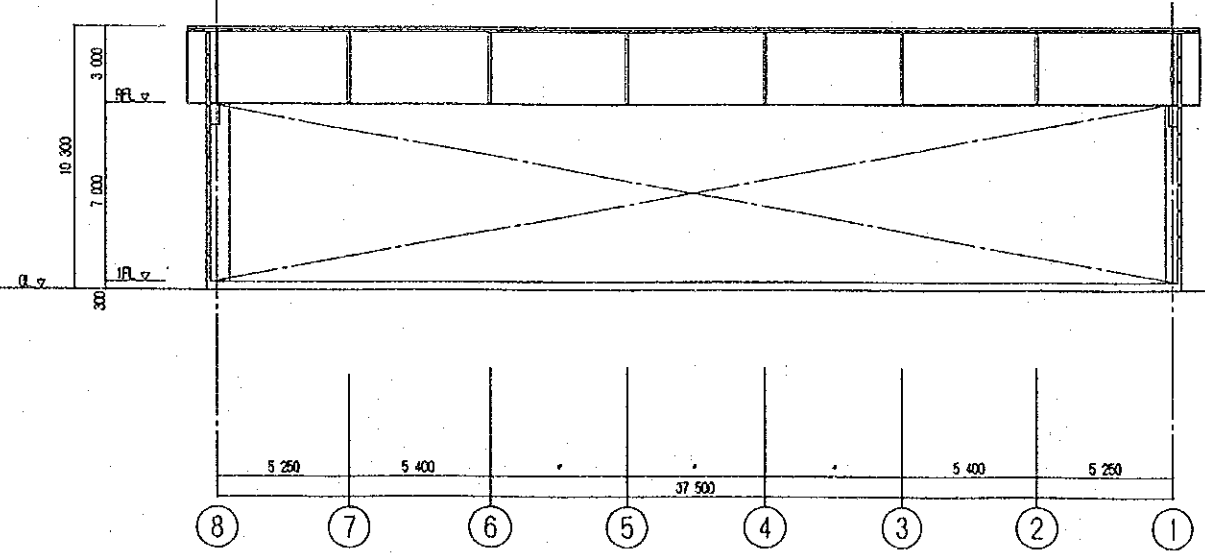
FLOOR PLAN (I)



FLOOR PLAN (II)



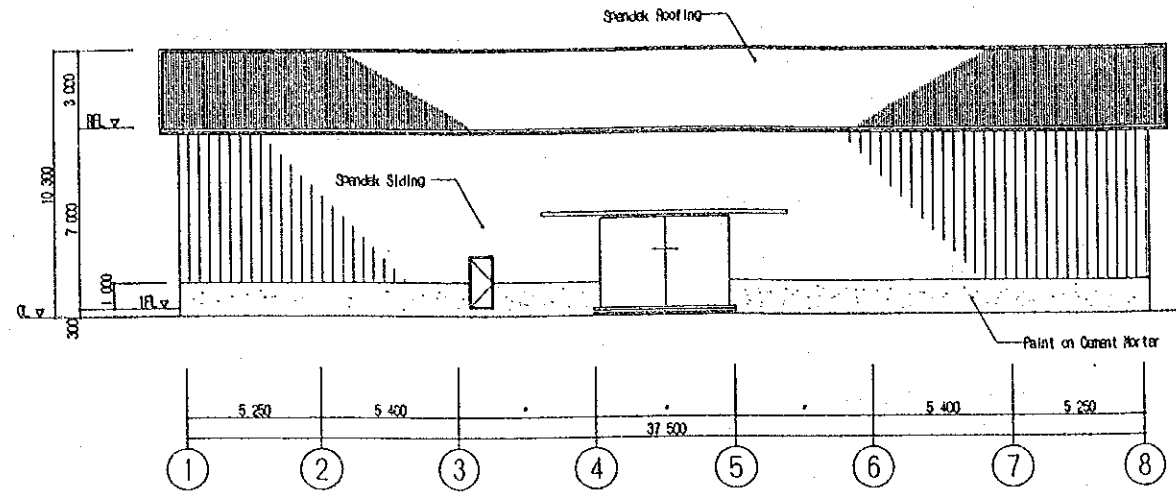
A-A SECTION



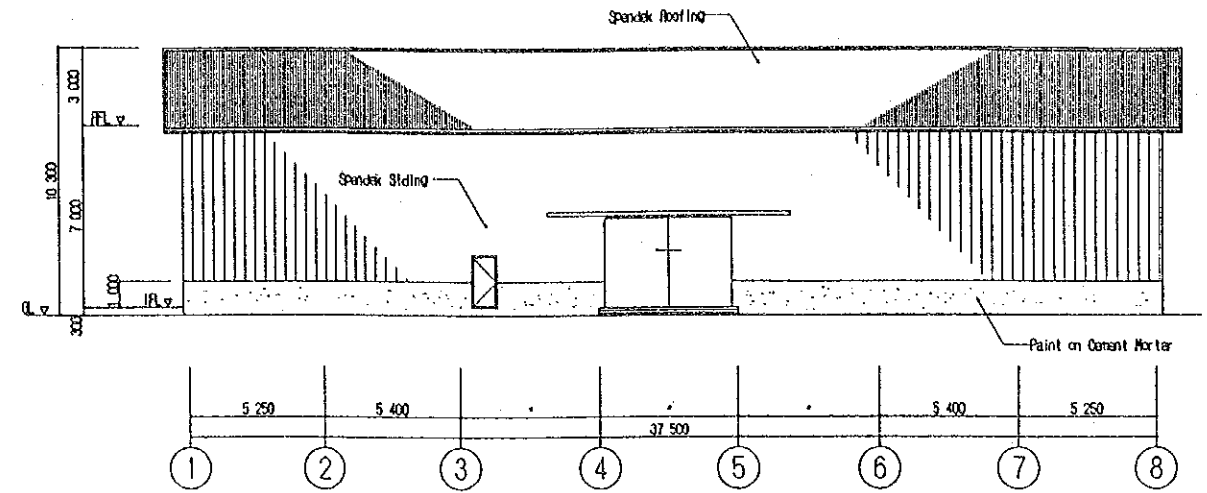
B-B SECTION



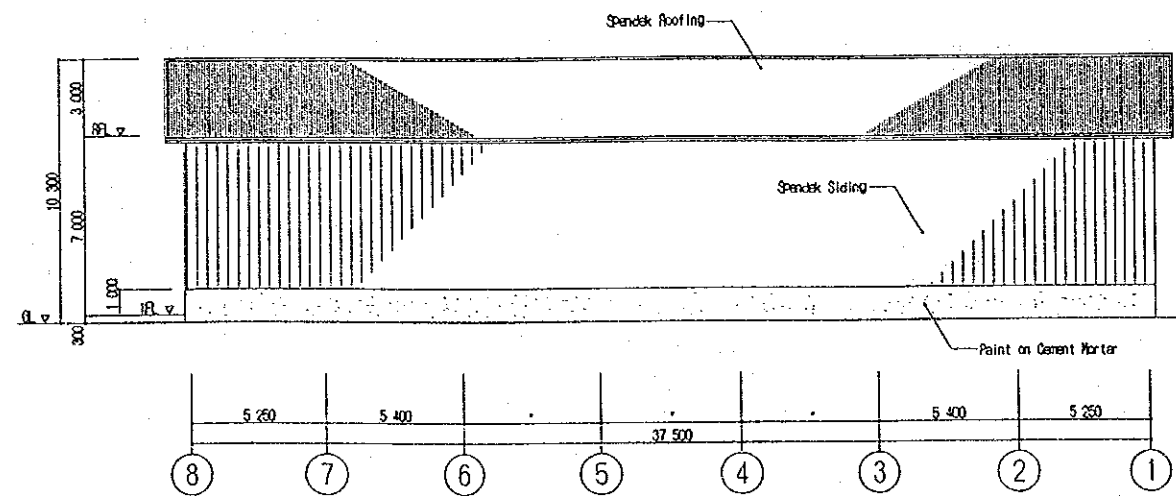
THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
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DATE		DRAWING NO.	4004
JAPAN INTERNATIONAL COOPERATION AGENCY			



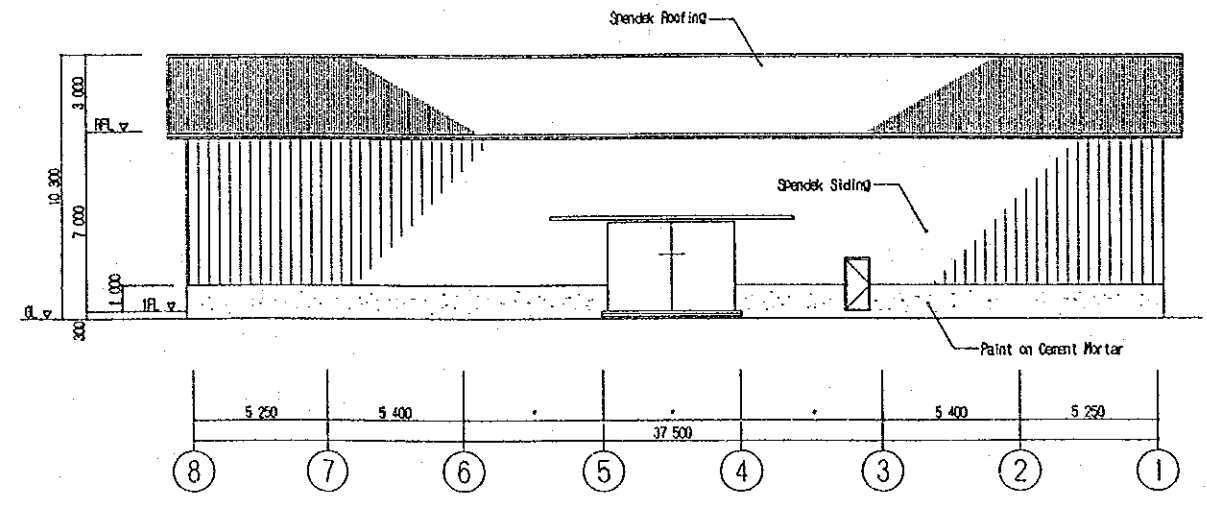
SOUTH ELEVATION (I)



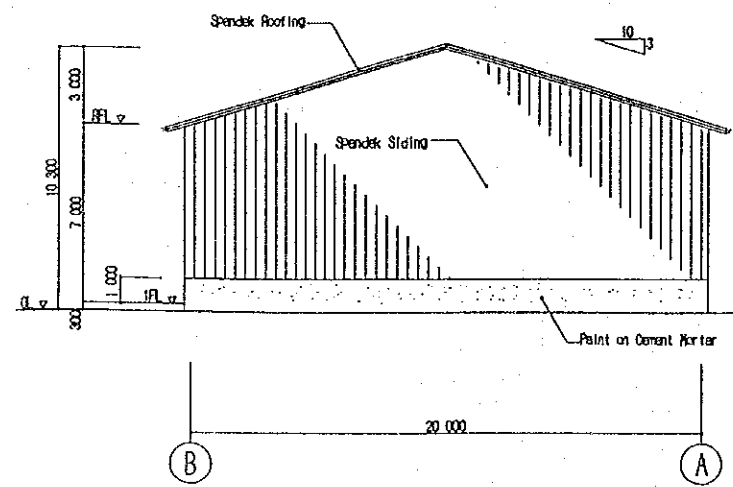
SOUTH ELEVATION (II)



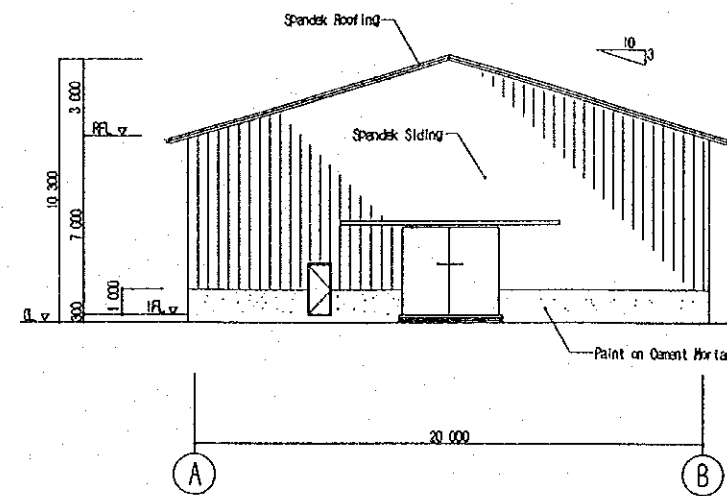
NORTH ELEVATION (I)



NORTH ELEVATION (II)



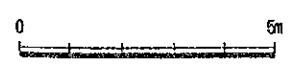
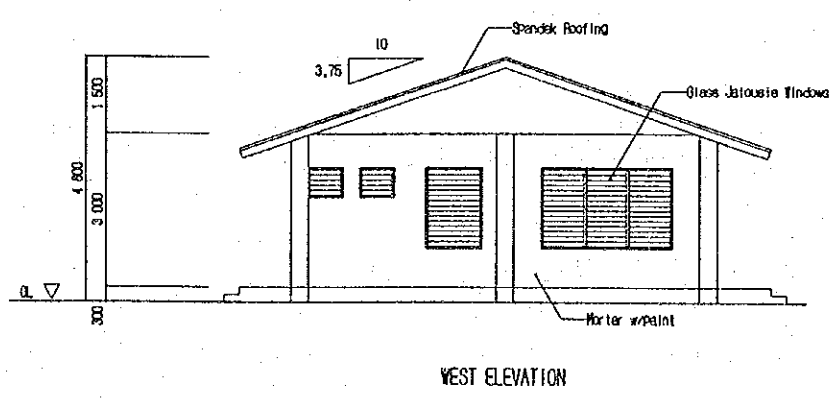
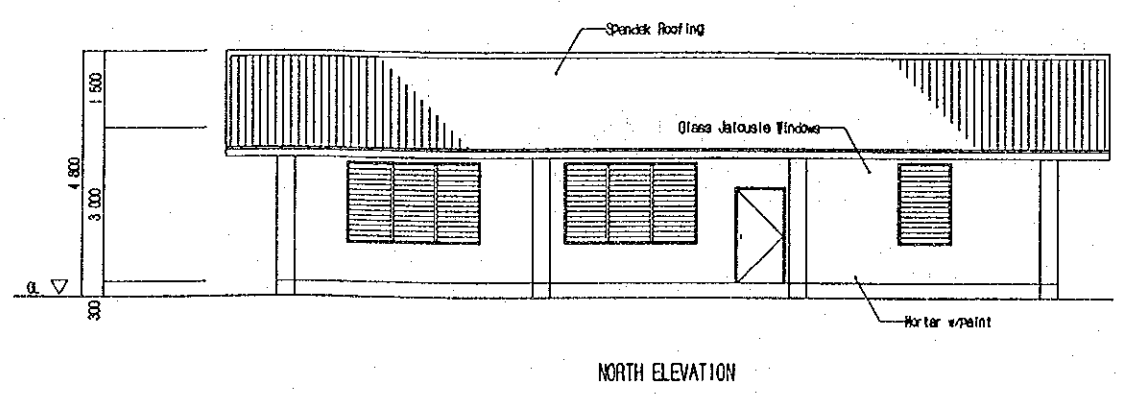
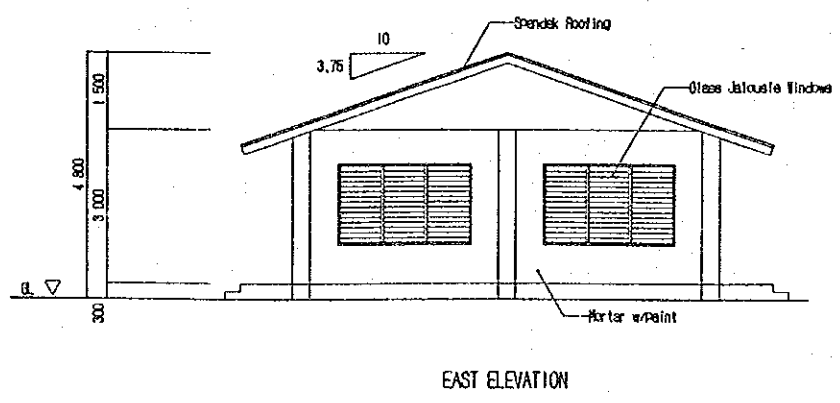
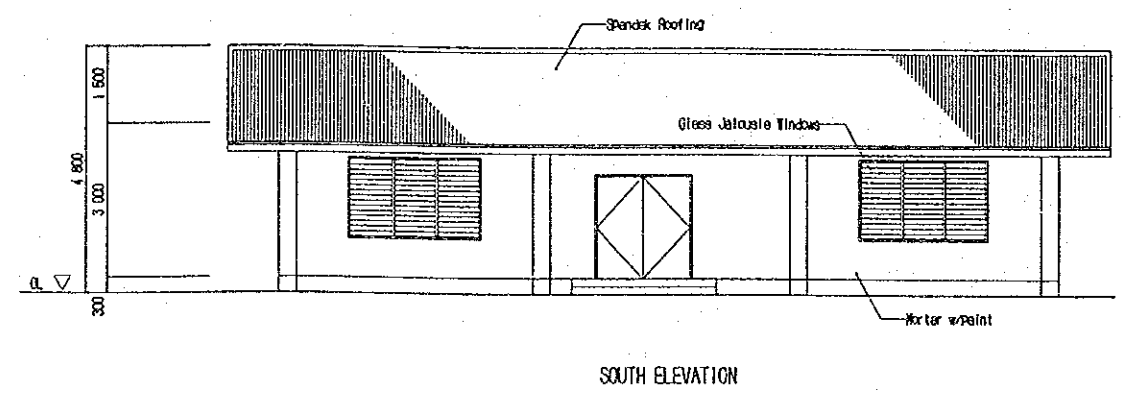
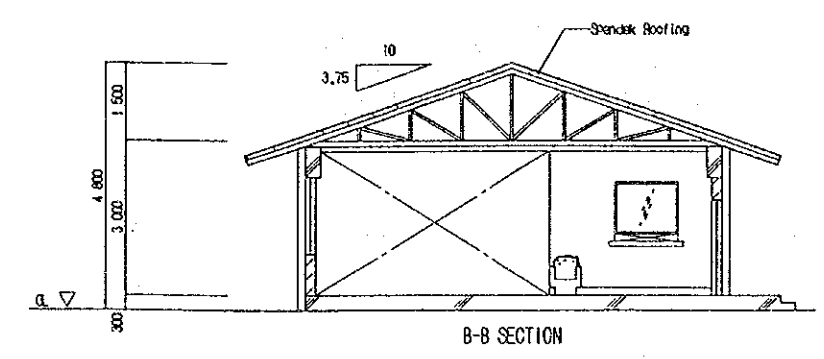
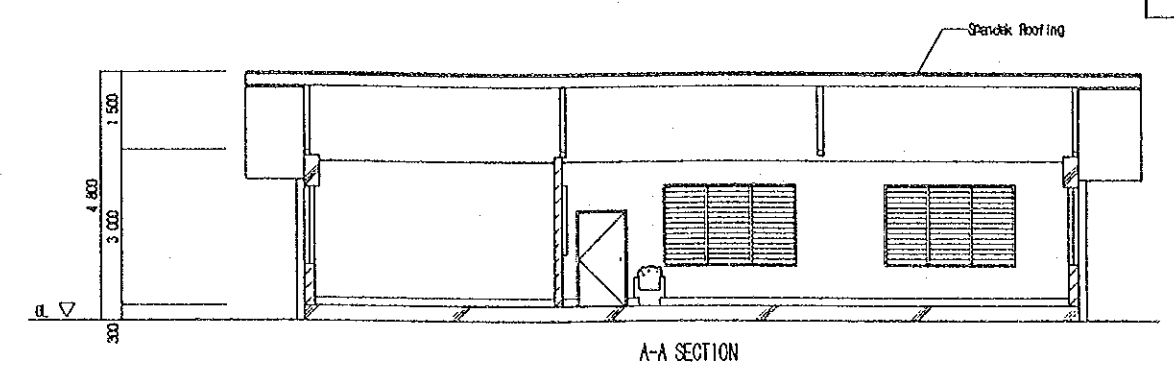
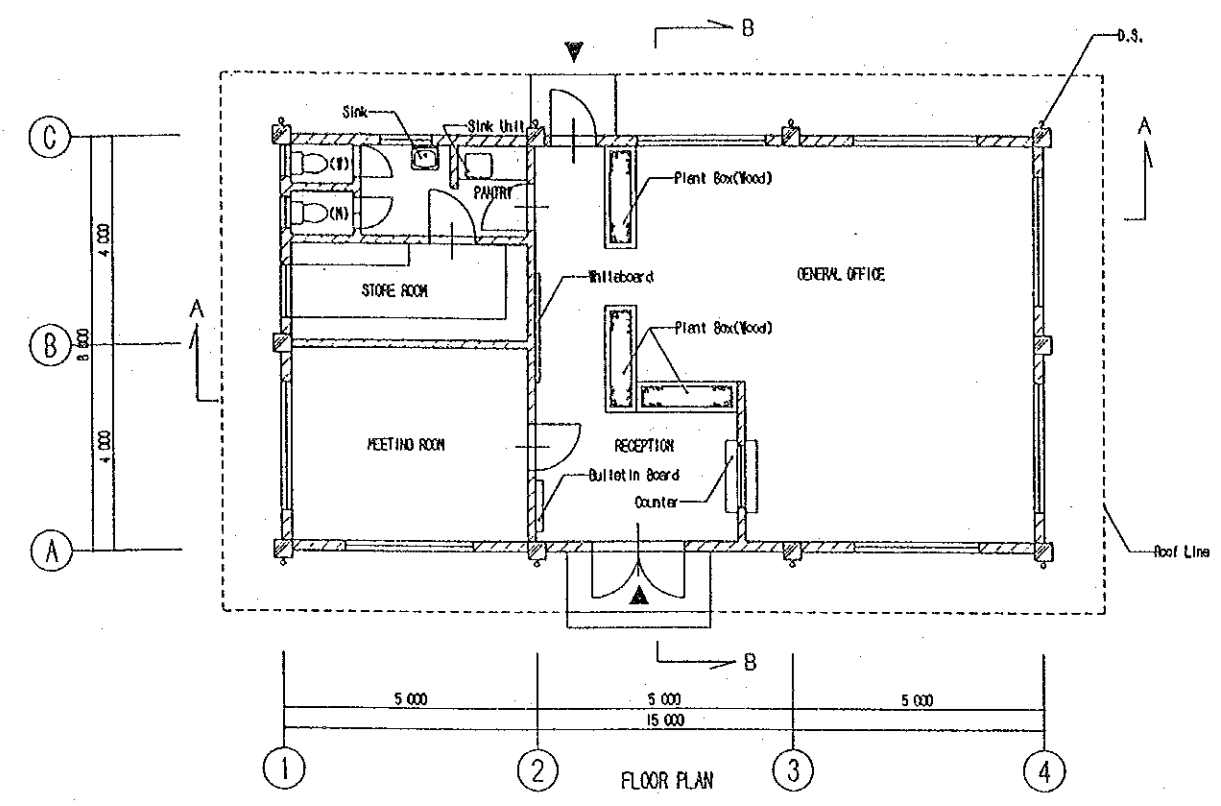
EAST ELEVATION (I, II)



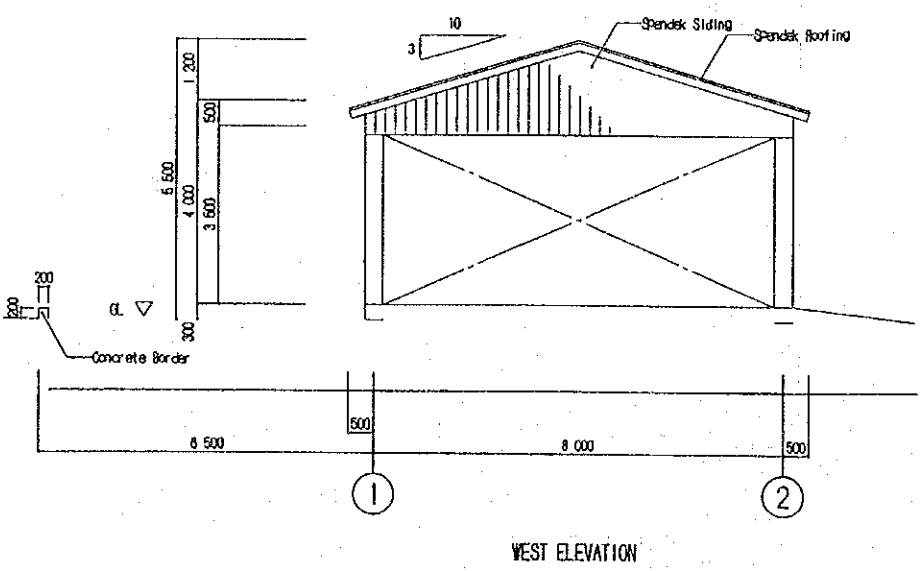
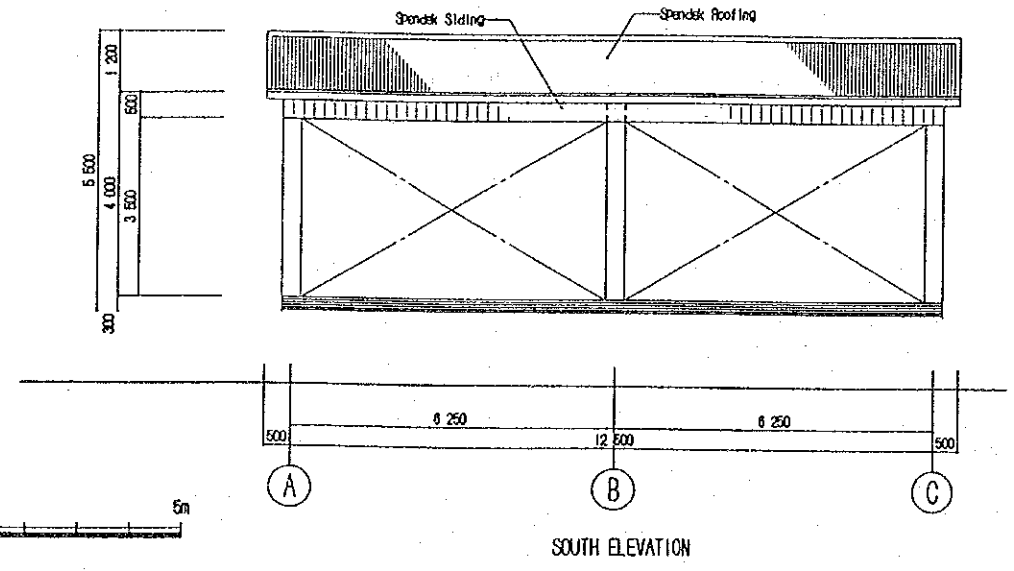
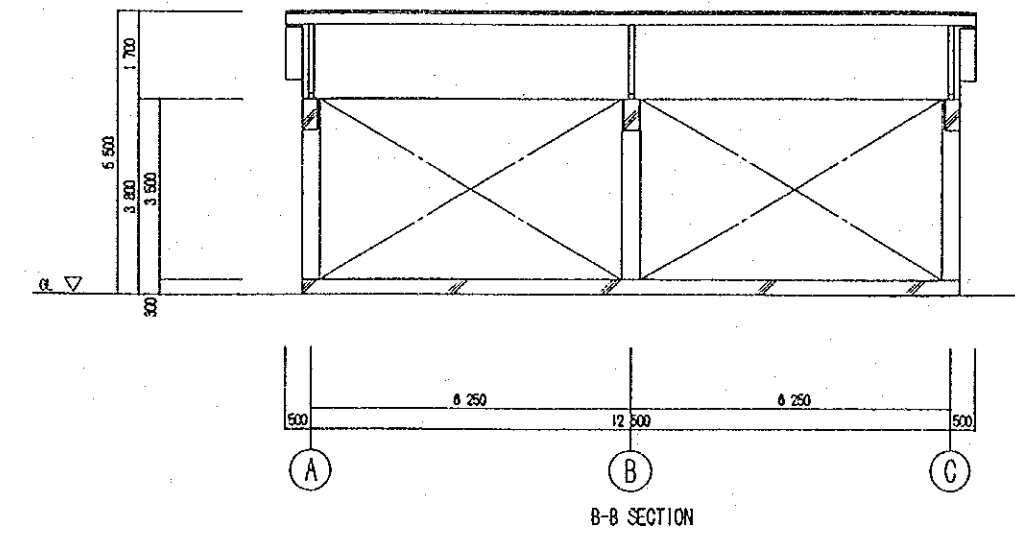
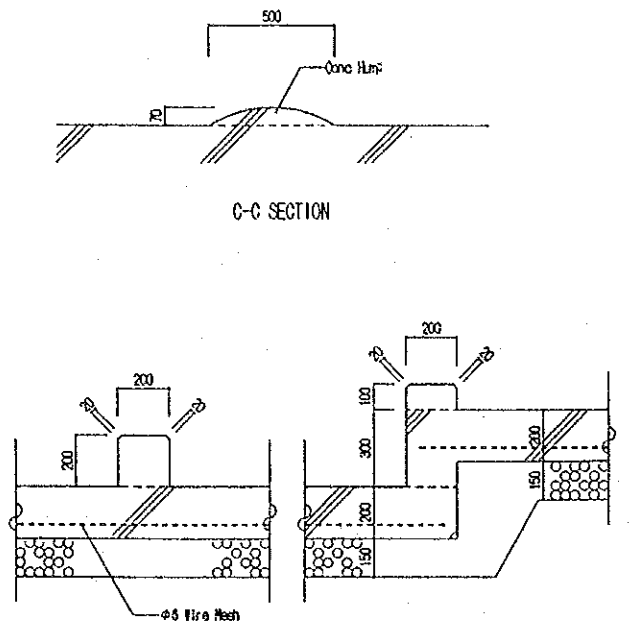
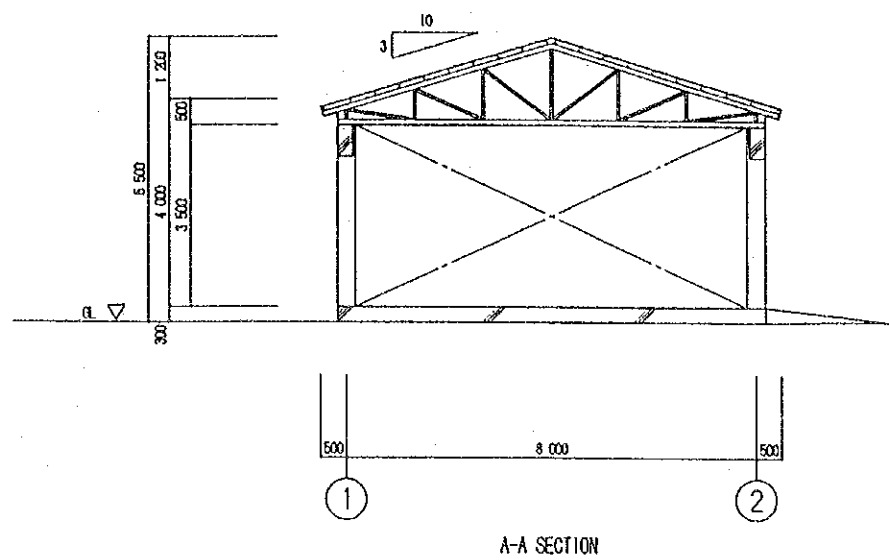
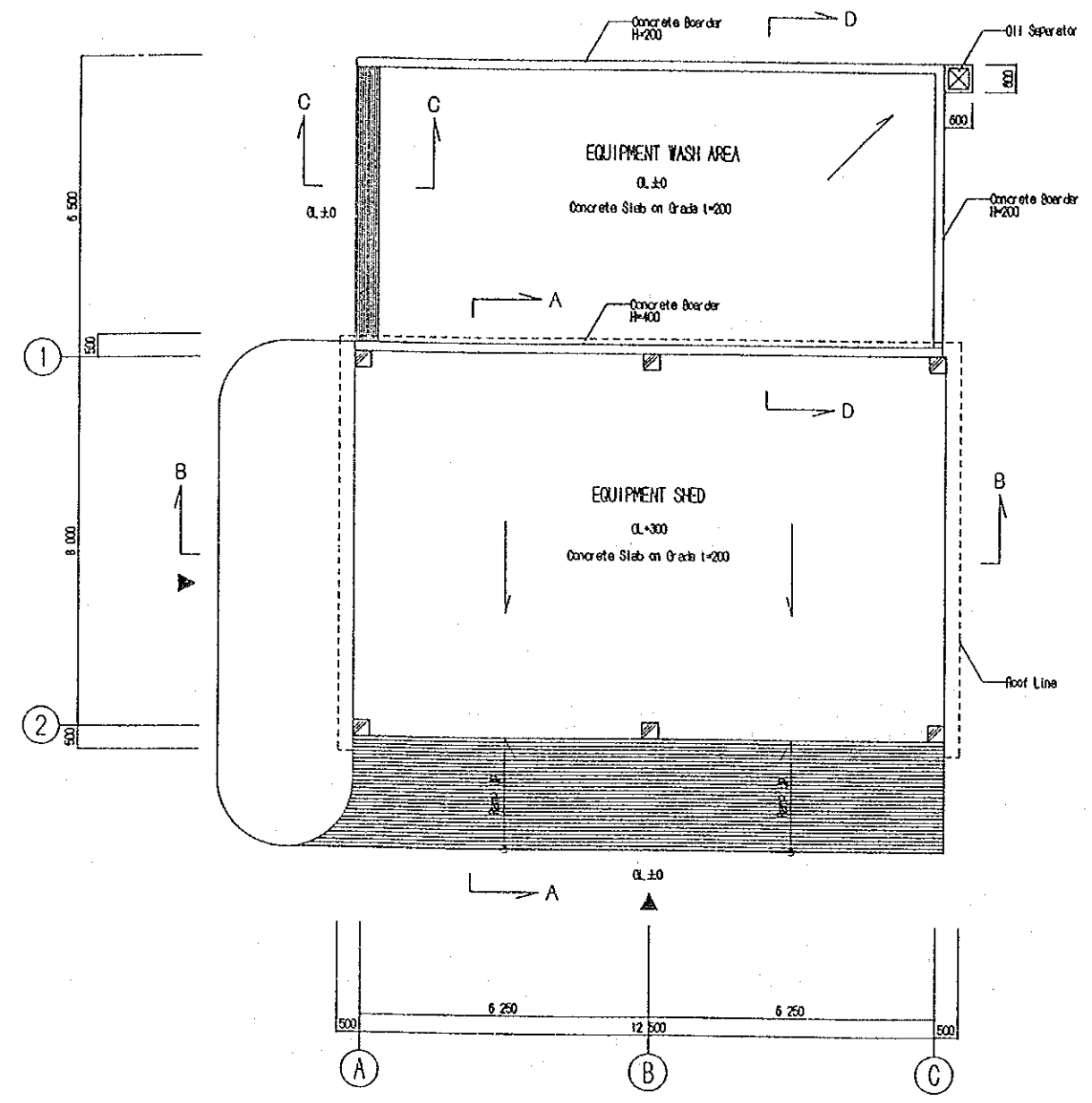
WEST ELEVATION (I, II)



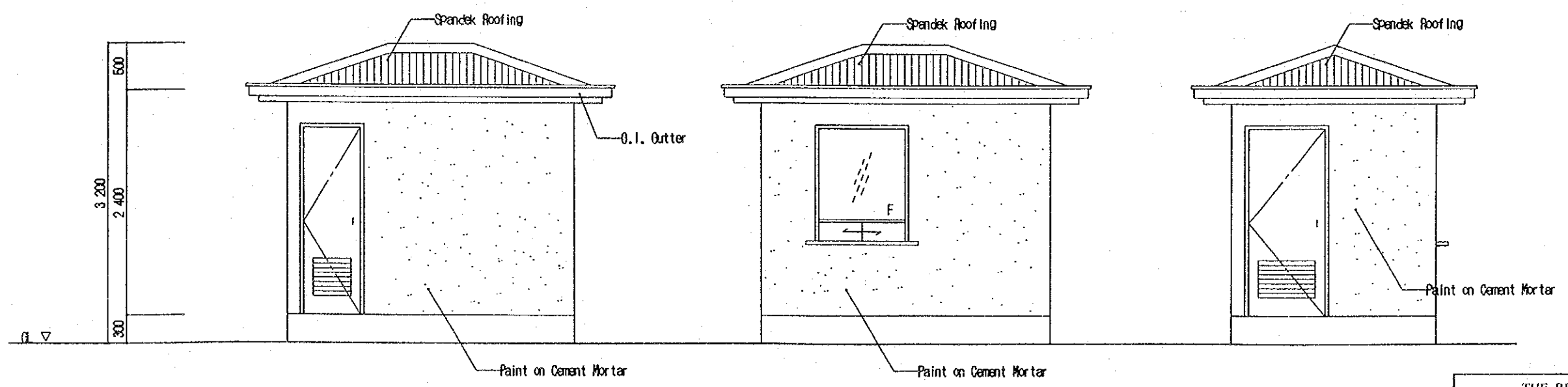
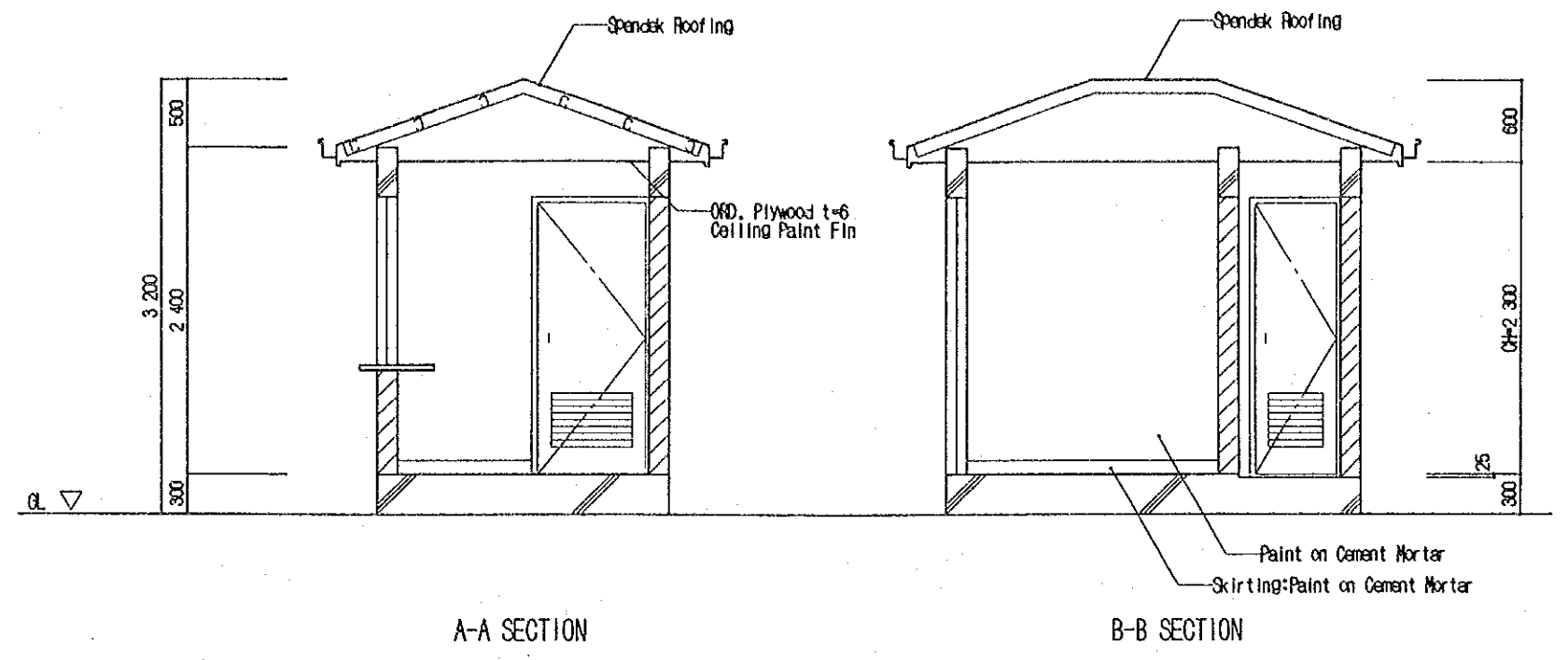
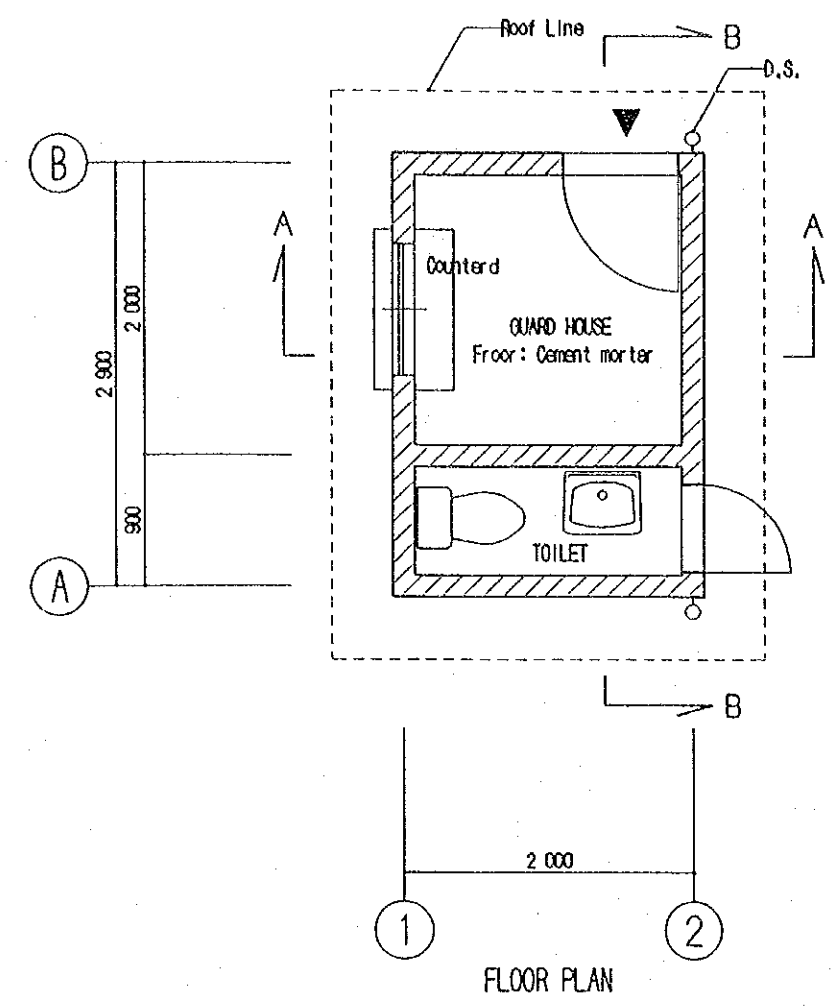
THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING POST HARVEST FACILITY PADDY WAREHOUSE (2/2)		
DATE	DRAWING NO.	4004
JAPAN INTERNATIONAL COOPERATION AGENCY		



THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING POST HARVEST FACILITY ADMINISTRATION OFFICE			
DATE		DRAWING NO.	4006
JAPAN INTERNATIONAL COOPERATION AGENCY			

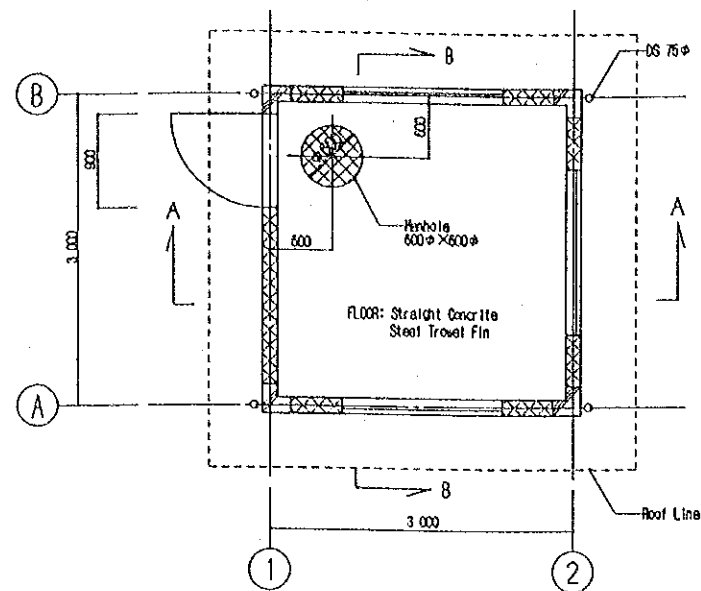


THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING POST HARVEST FACILITY EQUIPMENT SHED		
DATE	DRAWING NO.	4007
JAPAN INTERNATIONAL COOPERATION AGENCY		

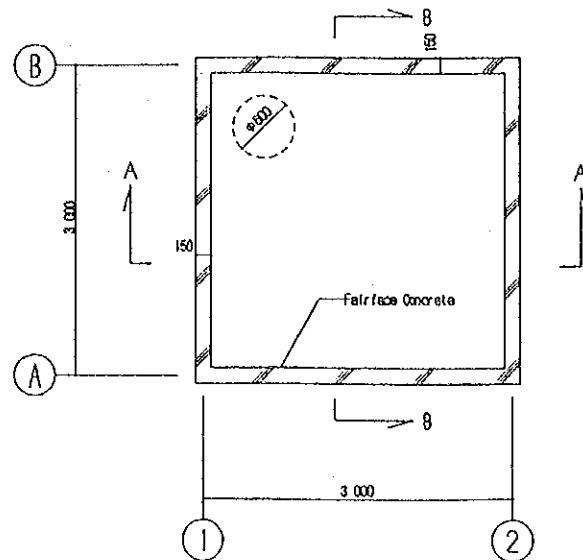


THE REPUBLIC OF THE PHILIPPINES			
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM			
TITLE OF DRAWING POST HARVEST FACILITY GUARD HOUSE			
DATE		DRAWING NO.	4008
JAPAN INTERNATIONAL COOPERATION AGENCY			

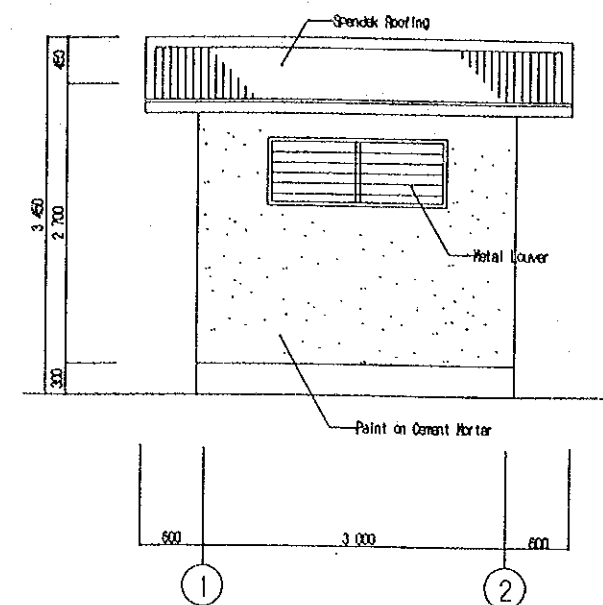




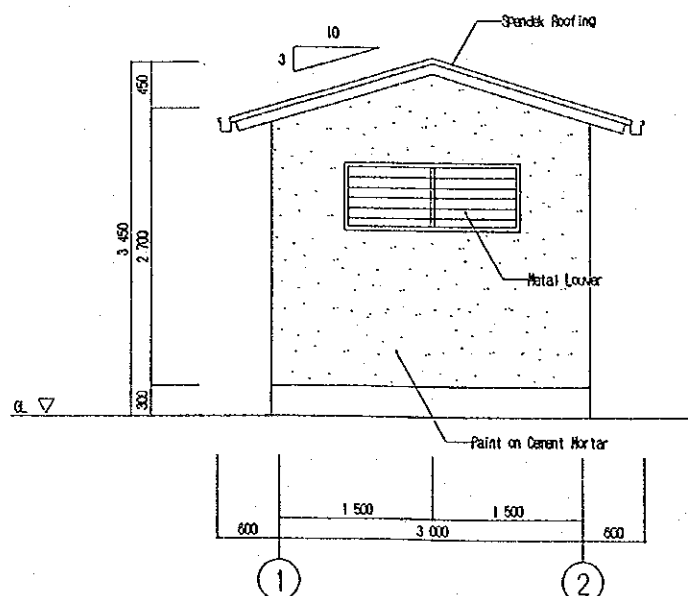
PLAN: PUMPROOM FLOOR



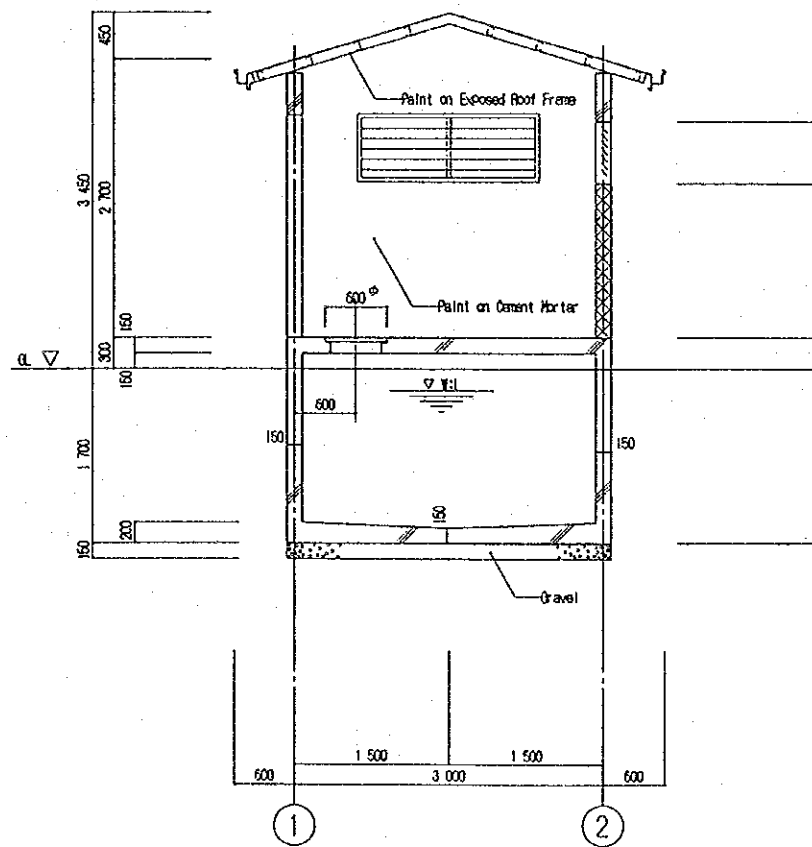
PLAN WATER RESERVOIR



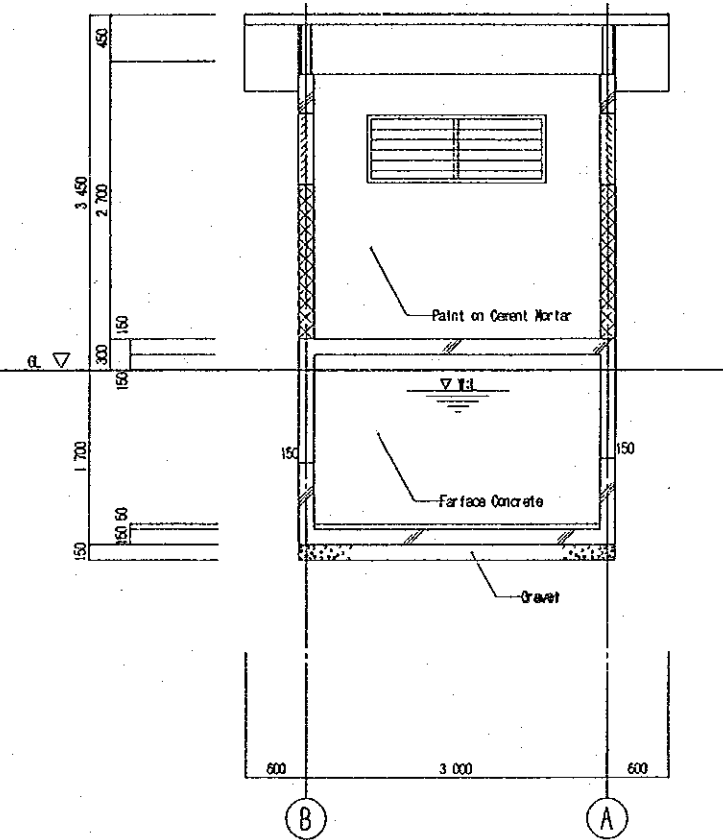
SOUTH ELEVATION



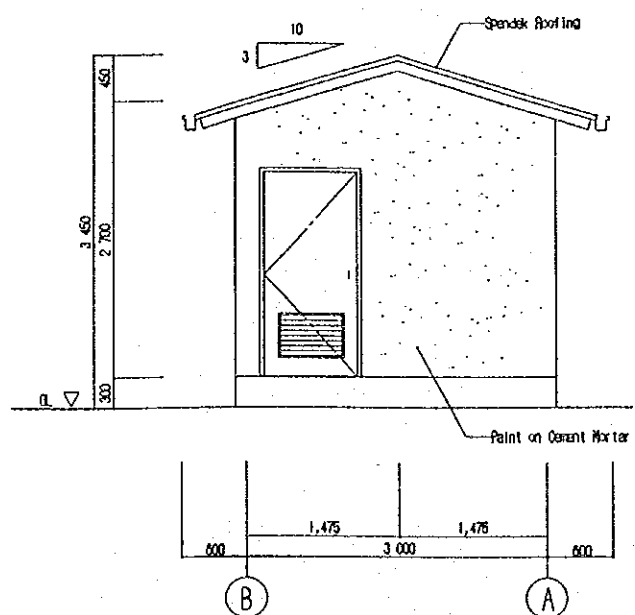
EAST ELEVATION



A-A SECTION



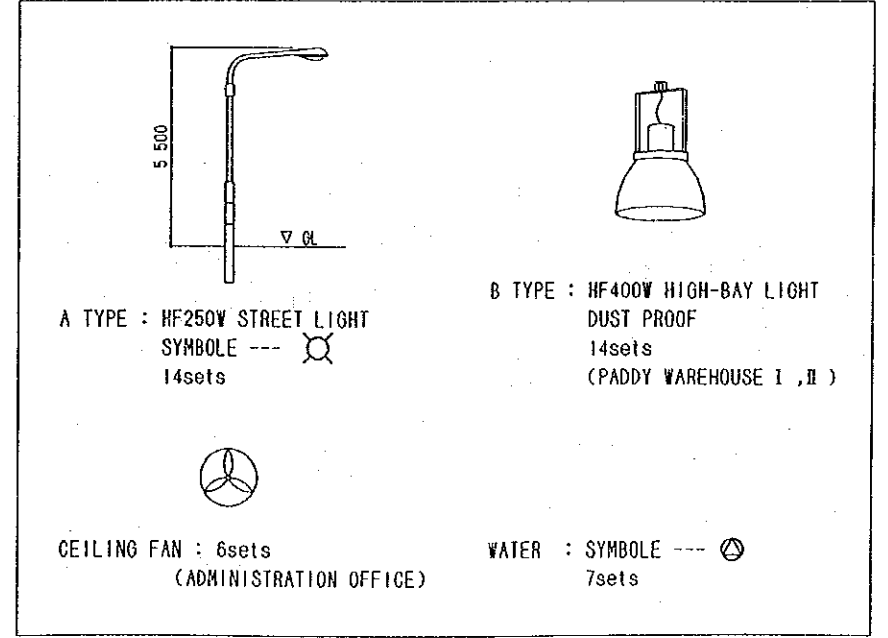
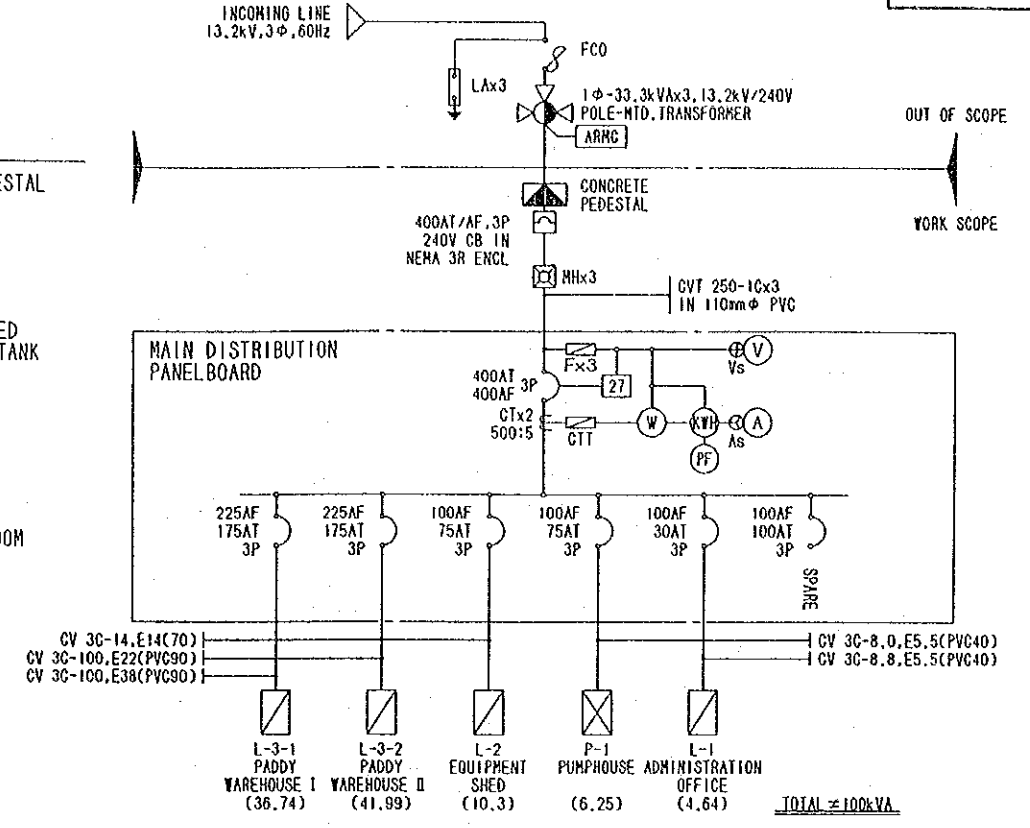
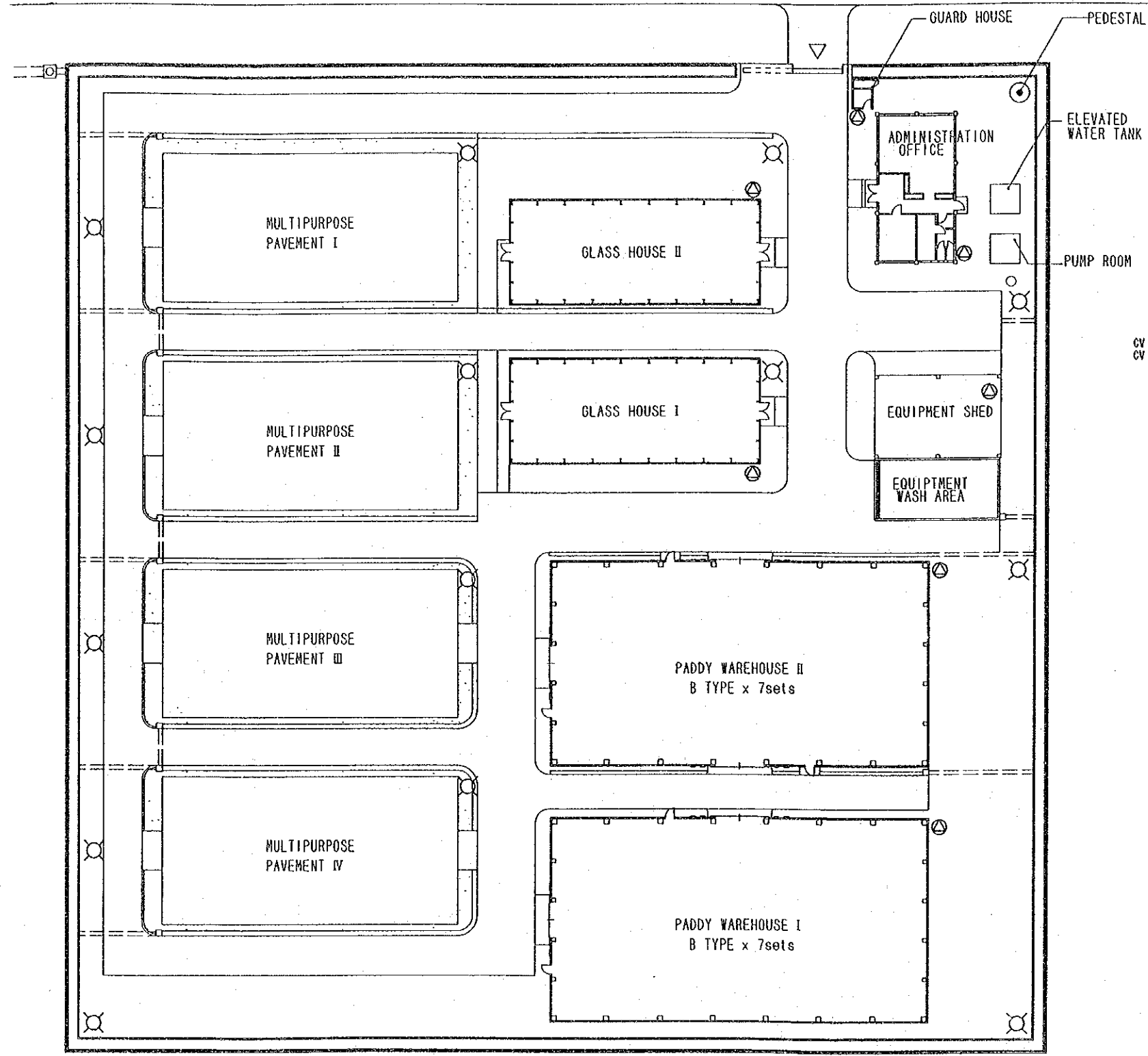
B-B SECTION



WEST ELEVATION

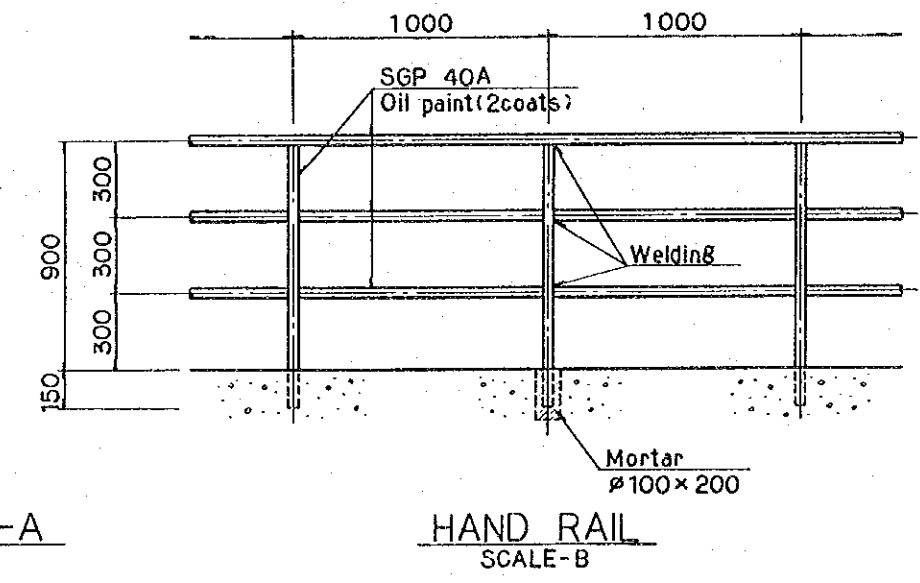
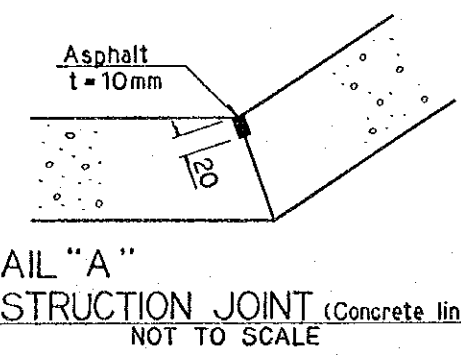
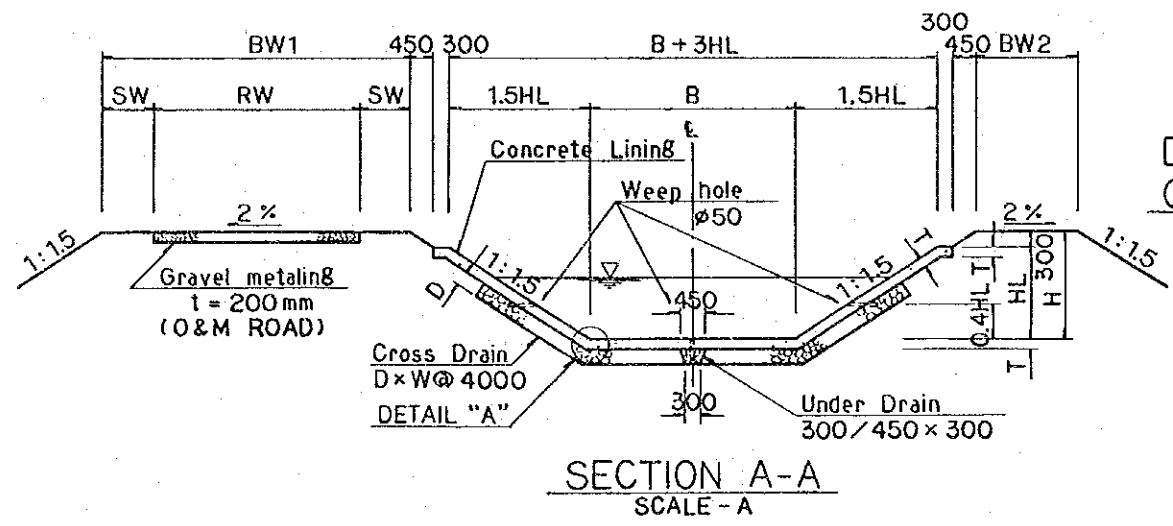
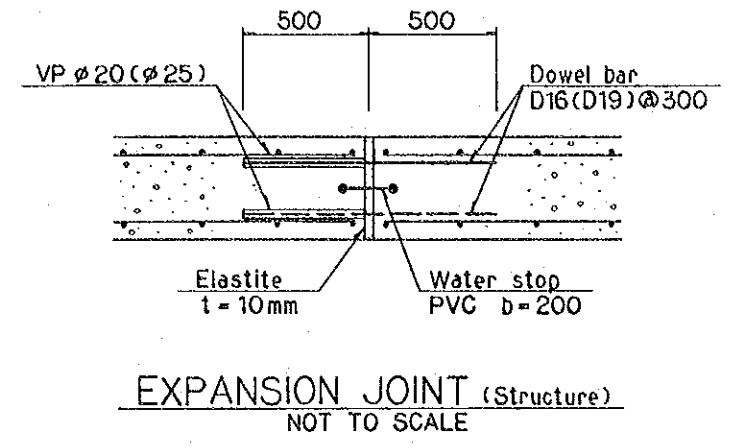
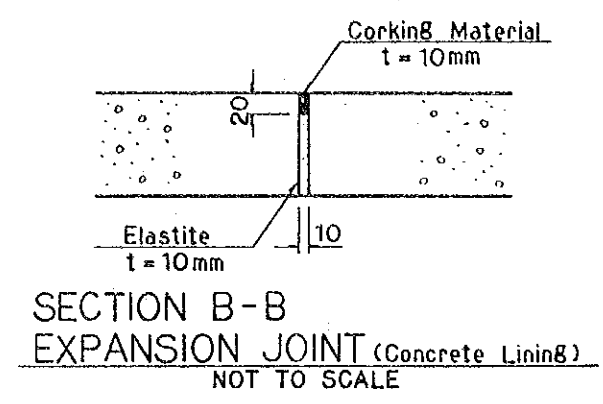
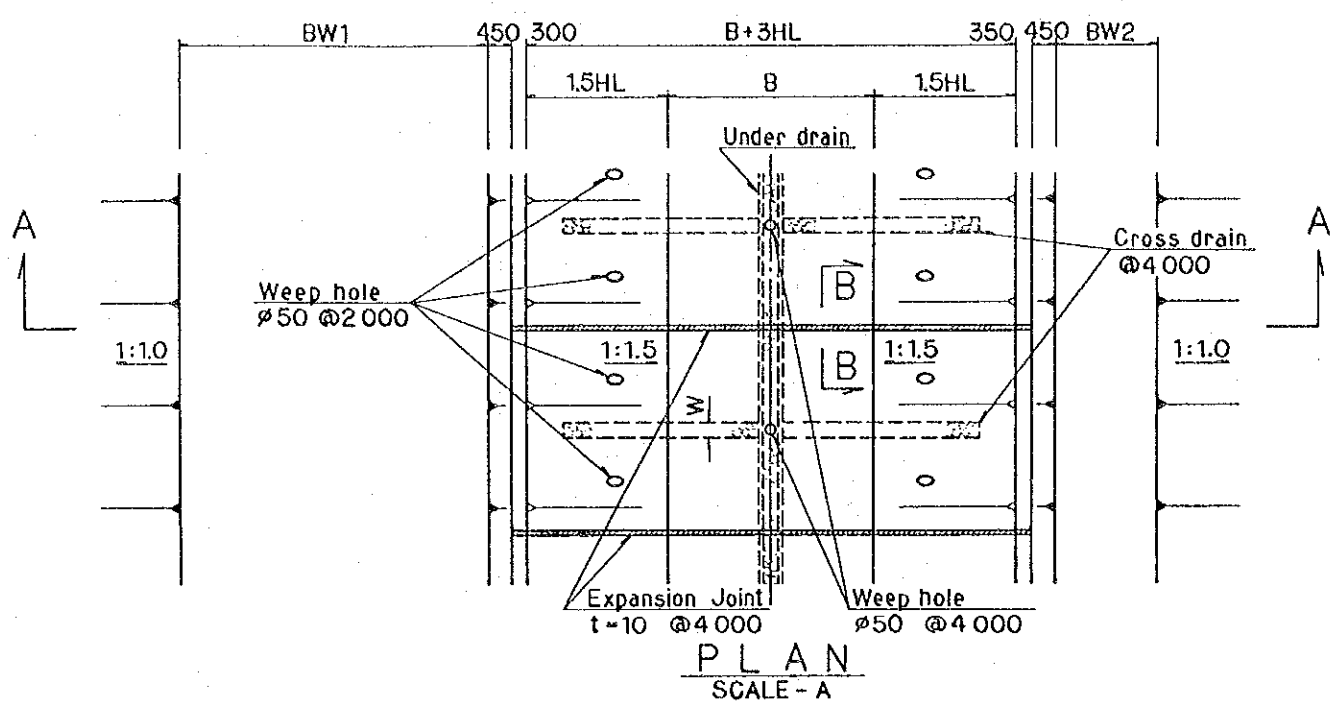


THE REPUBLIC OF THE PHILIPPINES		
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM		
TITLE OF DRAWING POST HARVEST FACILITY PUMP ROOM		
DATE	DRAWING NO.	4009
JAPAN INTERNATIONAL COOPERATION AGENCY		



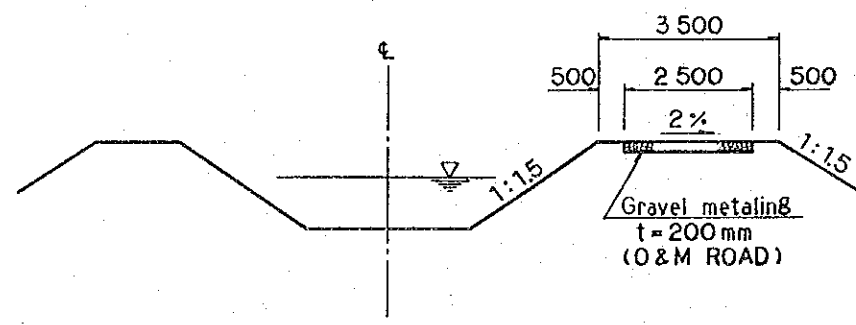
THE REPUBLIC OF THE PHILIPPINES	
THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM	
TITLE OF DRAWING POST HARVEST FACILITY ELECTRICAL AND LIGHTING SYSTEM	
DATE	DRAWING NO. 4010
JAPAN INTERNATIONAL COOPERATION AGENCY	

### CONCRETE CANAL LINING OF MAIN CANAL



### TYPICAL CROSS SECTION OF LATERAL-A

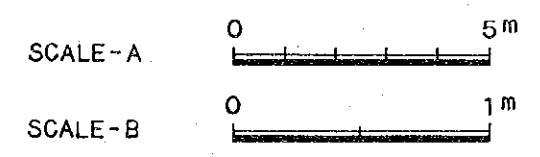
STA. 3+270~STA. 4+990 SCALE - A



DIMENSION TABLE OF MAIN CANAL

(Unit : m)

TYPE	B	HL	H	T	W	D	BW1	BW2	O&M ROAD		LOCATION
									RW	SW	
I-1	6.0	1.7	2.0	0.10	0.30	0.30	6.0	2.5	4.0	1.0	LEFT BANK
I-2	6.0	1.7	2.0	0.10	0.30	0.30	6.0	2.5	4.0	1.0	RIGHT BANK
II-1	4.0	1.9	2.2	0.10	0.30	0.30	6.0	2.0	4.0	1.0	LEFT BANK
II-2	4.0	1.8	2.1	0.10	0.30	0.30	6.0	2.0	4.0	1.0	LEFT BANK
II-3	4.0	1.7	2.0	0.10	0.30	0.30	6.0	2.0	4.0	1.0	LEFT BANK
II-4	4.0	1.2	1.5	0.10	0.30	0.30	6.0	2.0	4.0	1.0	LEFT BANK
III	3.0	1.0	1.3	0.08	0.20	0.20	4.0	1.5	3.0	0.5	LEFT BANK
IV-1	2.0	1.0	1.3	0.08	0.20	0.20	4.0	1.0	3.0	0.5	RIGHT BANK
IV-2	2.0	0.9	1.2	0.08	0.20	0.20	4.0	1.0	3.0	0.5	RIGHT BANK
IV-3	2.0	0.8	1.1	0.08	0.20	0.20	4.0	1.0	3.0	0.5	RIGHT BANK



THE REPUBLIC OF THE PHILIPPINES

THE OPTIMUM WATER UTILIZATION AND RURAL DEVELOPMENT PROJECT IN AGANAN RIVER IRRIGATION SYSTEM

TITLE OF DRAWING  
MISCELLANEOUS  
TYPICAL CROSS SECTIONS OF CANALS AND O&M ROAD, MISCELLANEOUS

DATE	DRAWING NO.	5001
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JAPAN INTERNATIONAL COOPERATION AGENCY









JICA