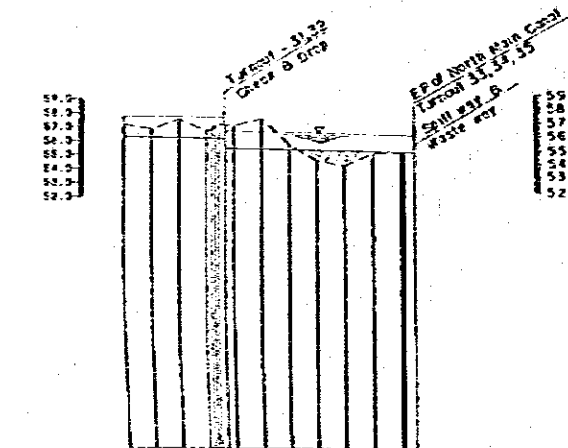
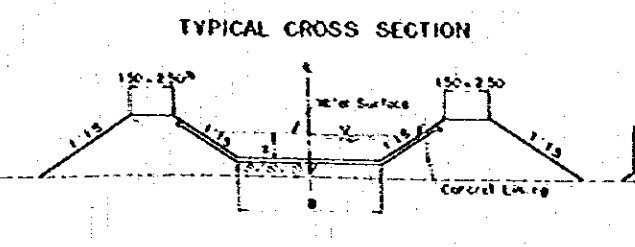
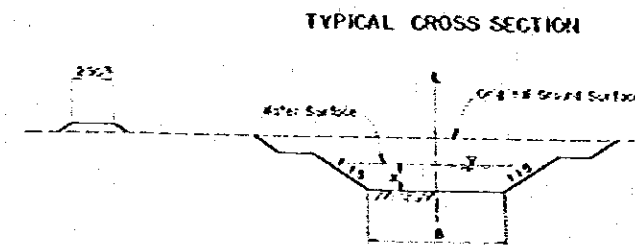


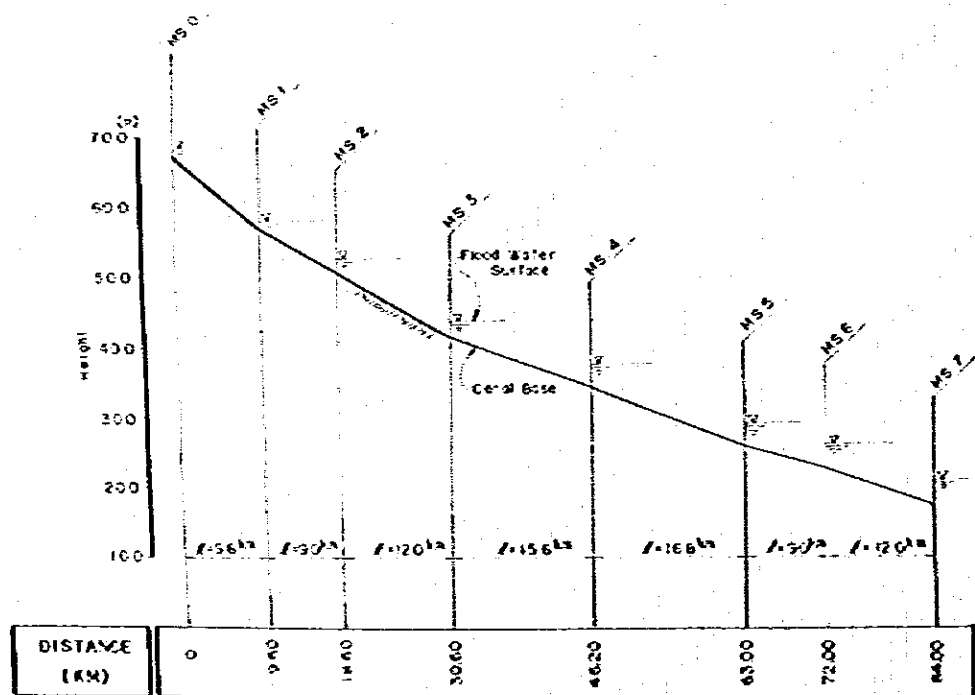
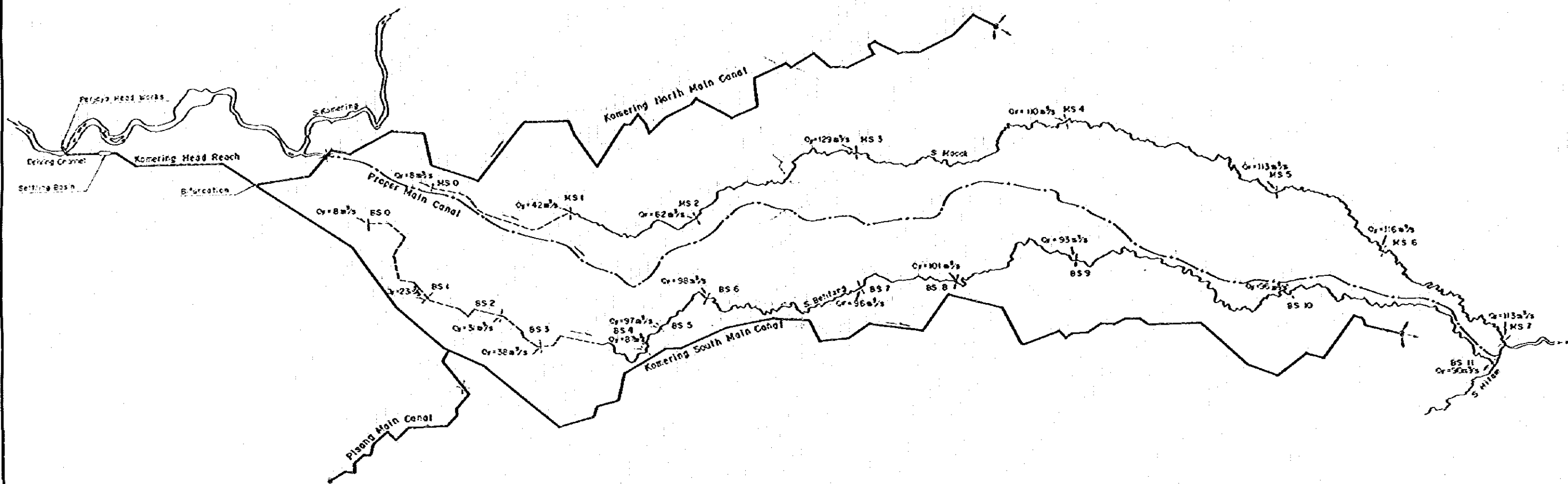
STATION	TURNOUT	WATER SURFACE ELEVATION	GROUND SURFACE ELEVATION	VERTICAL CURVE DATA
474+00	Turnout-21	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
474+10		75.00	75.00	
474+20		75.00	75.00	
474+30		75.00	75.00	
474+40		75.00	75.00	
474+50	Turnout-22	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
474+60		75.00	75.00	
474+70		75.00	75.00	
474+80		75.00	75.00	
474+90		75.00	75.00	
475+00	Turnout-23	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
475+10		75.00	75.00	
475+20		75.00	75.00	
475+30		75.00	75.00	
475+40		75.00	75.00	
475+50		75.00	75.00	
475+60		75.00	75.00	
475+70		75.00	75.00	
475+80		75.00	75.00	
475+90		75.00	75.00	
476+00	Turnout-24	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
476+10		75.00	75.00	
476+20		75.00	75.00	
476+30		75.00	75.00	
476+40		75.00	75.00	
476+50		75.00	75.00	
476+60		75.00	75.00	
476+70		75.00	75.00	
476+80		75.00	75.00	
476+90		75.00	75.00	
477+00	Turnout-25	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
477+10		75.00	75.00	
477+20		75.00	75.00	
477+30		75.00	75.00	
477+40		75.00	75.00	
477+50		75.00	75.00	
477+60		75.00	75.00	
477+70		75.00	75.00	
477+80		75.00	75.00	
477+90		75.00	75.00	
478+00	Turnout-26	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
478+10		75.00	75.00	
478+20		75.00	75.00	
478+30		75.00	75.00	
478+40		75.00	75.00	
478+50		75.00	75.00	
478+60		75.00	75.00	
478+70		75.00	75.00	
478+80		75.00	75.00	
478+90		75.00	75.00	
479+00	Turnout-27	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
479+10		75.00	75.00	
479+20		75.00	75.00	
479+30		75.00	75.00	
479+40		75.00	75.00	
479+50		75.00	75.00	
479+60		75.00	75.00	
479+70		75.00	75.00	
479+80		75.00	75.00	
479+90		75.00	75.00	
480+00	Turnout-28	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
480+10		75.00	75.00	
480+20		75.00	75.00	
480+30		75.00	75.00	
480+40		75.00	75.00	
480+50		75.00	75.00	
480+60		75.00	75.00	
480+70		75.00	75.00	
480+80		75.00	75.00	
480+90		75.00	75.00	
481+00	Turnout-29	75.00	75.00	(B=70m, R=140m, V=0.65m/s)
481+10		75.00	75.00	
481+20		75.00	75.00	
481+30		75.00	75.00	
481+40		75.00	75.00	
481+50		75.00	75.00	
481+60		75.00	75.00	
481+70		75.00	75.00	
481+80		75.00	75.00	
481+90		75.00	75.00	
482+00		75.00	75.00	



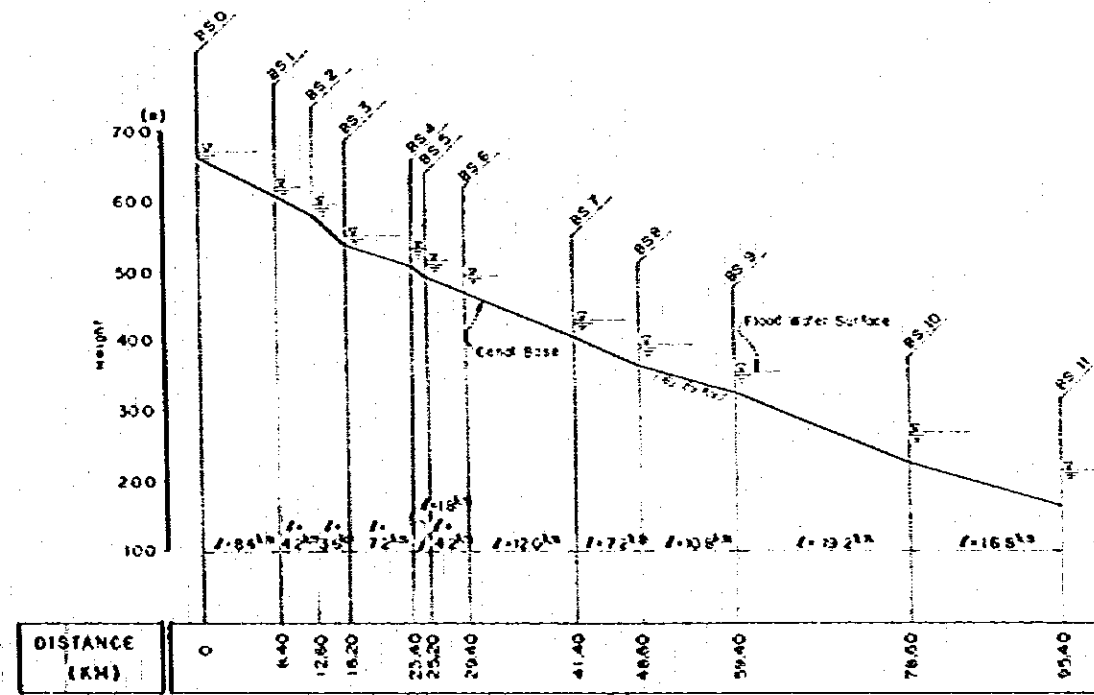
STATION	TURNOUT	WATER SURFACE ELEVATION	GROUND SURFACE ELEVATION	VERTICAL CURVE DATA
474+00	Turnout-31	58.00	58.00	(B=15m, R=15m, V=0.45m/s)
474+10		58.00	58.00	
474+20		58.00	58.00	
474+30		58.00	58.00	
474+40		58.00	58.00	
474+50		58.00	58.00	
474+60		58.00	58.00	
474+70		58.00	58.00	
474+80		58.00	58.00	
474+90		58.00	58.00	
475+00		58.00	58.00	
475+10		58.00	58.00	
475+20		58.00	58.00	
475+30		58.00	58.00	
475+40		58.00	58.00	
475+50		58.00	58.00	
475+60		58.00	58.00	
475+70		58.00	58.00	
475+80		58.00	58.00	
475+90		58.00	58.00	
476+00		58.00	58.00	
476+10		58.00	58.00	
476+20		58.00	58.00	
476+30		58.00	58.00	
476+40		58.00	58.00	
476+50		58.00	58.00	
476+60		58.00	58.00	
476+70		58.00	58.00	
476+80		58.00	58.00	
476+90		58.00	58.00	
477+00		58.00	58.00	
477+10		58.00	58.00	
477+20		58.00	58.00	
477+30		58.00	58.00	
477+40		58.00	58.00	
477+50		58.00	58.00	
477+60		58.00	58.00	
477+70		58.00	58.00	
477+80		58.00	58.00	
477+90		58.00	58.00	
478+00		58.00	58.00	
478+10		58.00	58.00	
478+20		58.00	58.00	
478+30		58.00	58.00	
478+40		58.00	58.00	
478+50		58.00	58.00	
478+60		58.00	58.00	
478+70		58.00	58.00	
478+80		58.00	58.00	
478+90		58.00	58.00	
479+00		58.00	58.00	
479+10		58.00	58.00	
479+20		58.00	58.00	
479+30		58.00	58.00	
479+40		58.00	58.00	
479+50		58.00	58.00	
479+60		58.00	58.00	
479+70		58.00	58.00	
479+80		58.00	58.00	
479+90		58.00	58.00	
480+00		58.00	58.00	
480+10		58.00	58.00	
480+20		58.00	58.00	
480+30		58.00	58.00	
480+40		58.00	58.00	
480+50		58.00	58.00	
480+60		58.00	58.00	
480+70		58.00	58.00	
480+80		58.00	58.00	
480+90		58.00	58.00	
481+00		58.00	58.00	
481+10		58.00	58.00	
481+20		58.00	58.00	
481+30		58.00	58.00	
481+40		58.00	58.00	
481+50		58.00	58.00	
481+60		58.00	58.00	
481+70		58.00	58.00	
481+80		58.00	58.00	
481+90		58.00	58.00	
482+00		58.00	58.00	



DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMERING-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWINGS
NORTH MAIN CANAL (2/2)
 JAPAN INTERNATIONAL COOPERATION AGENCY O.K.G. NO.
 TORYO VI-07

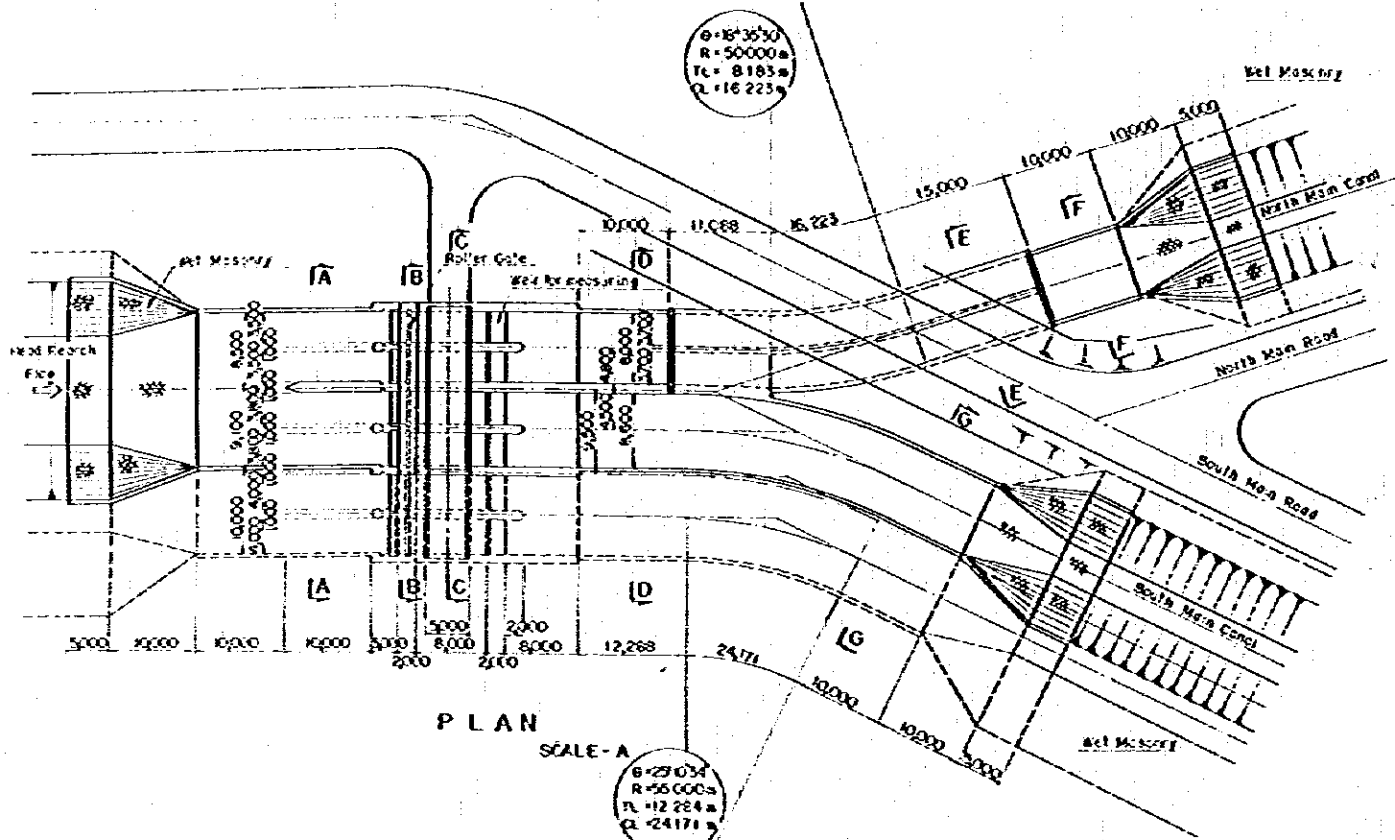


PROFILE OF S. MATJA



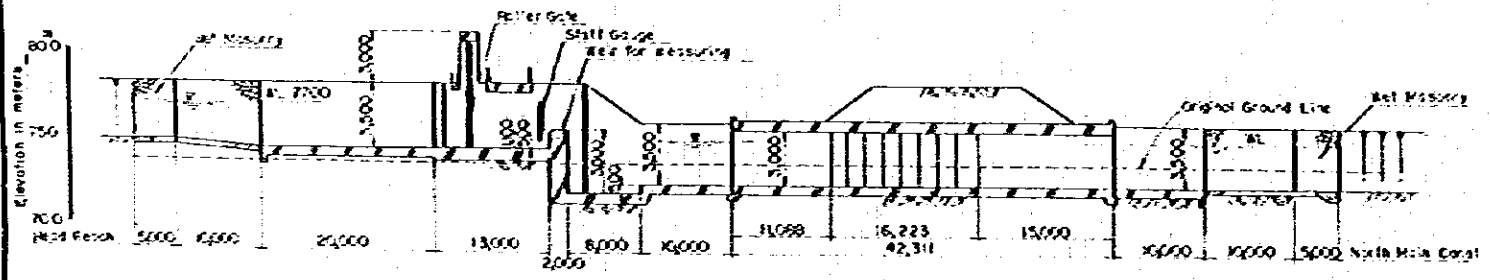
PROFILE OF S. BETITANG

DISECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT KOMERING-I IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWINGS MAIN DRAINS PROFILE	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO	DWG. NO. VII - 11

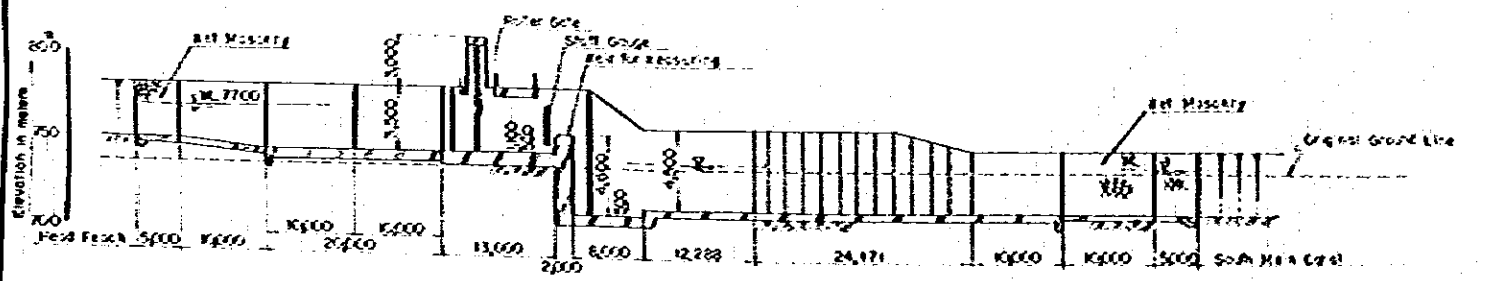


PLAN SCALE - A

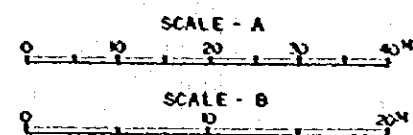
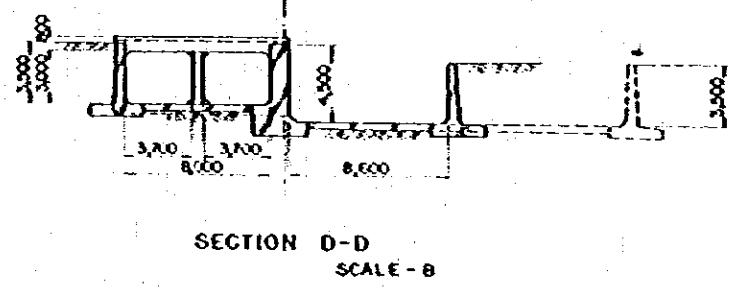
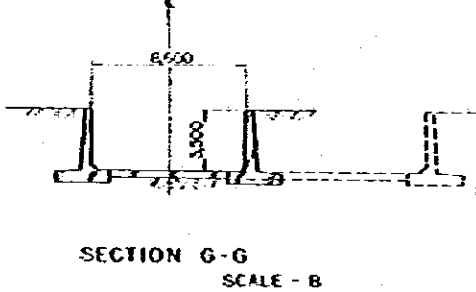
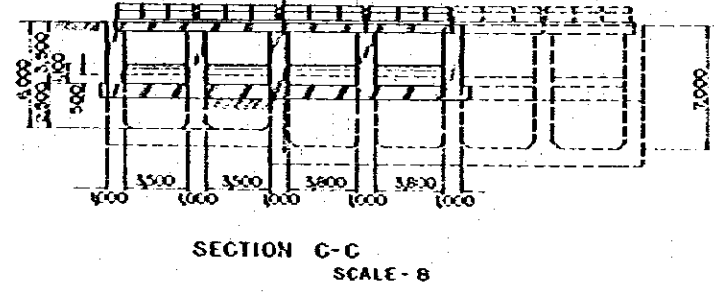
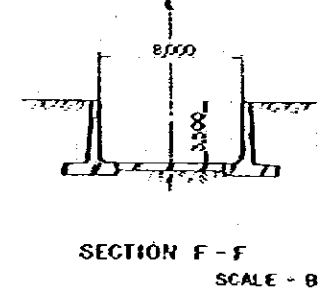
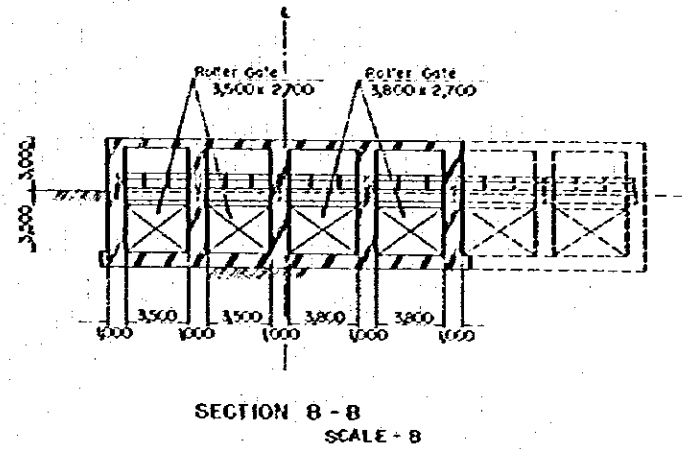
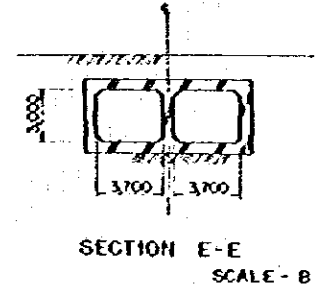
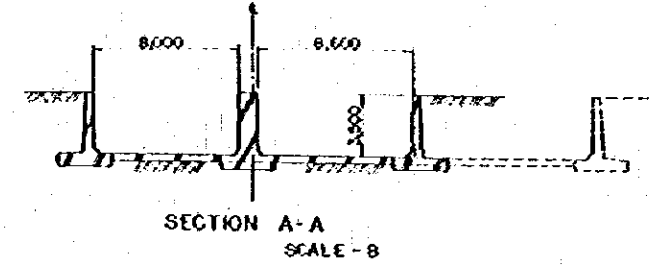
NORTH MAIN CANAL SIDE



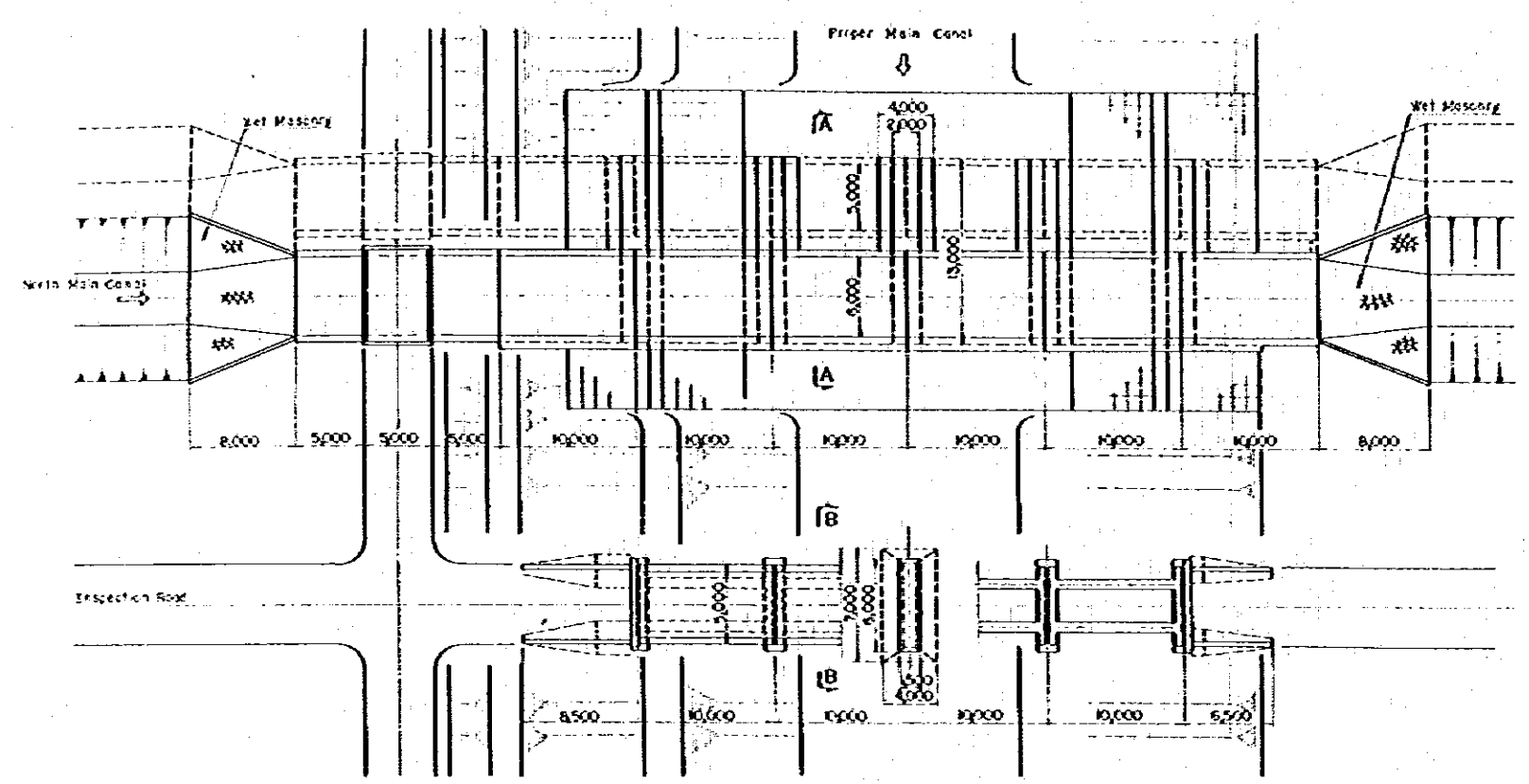
SOUTH MAIN CANAL SIDE



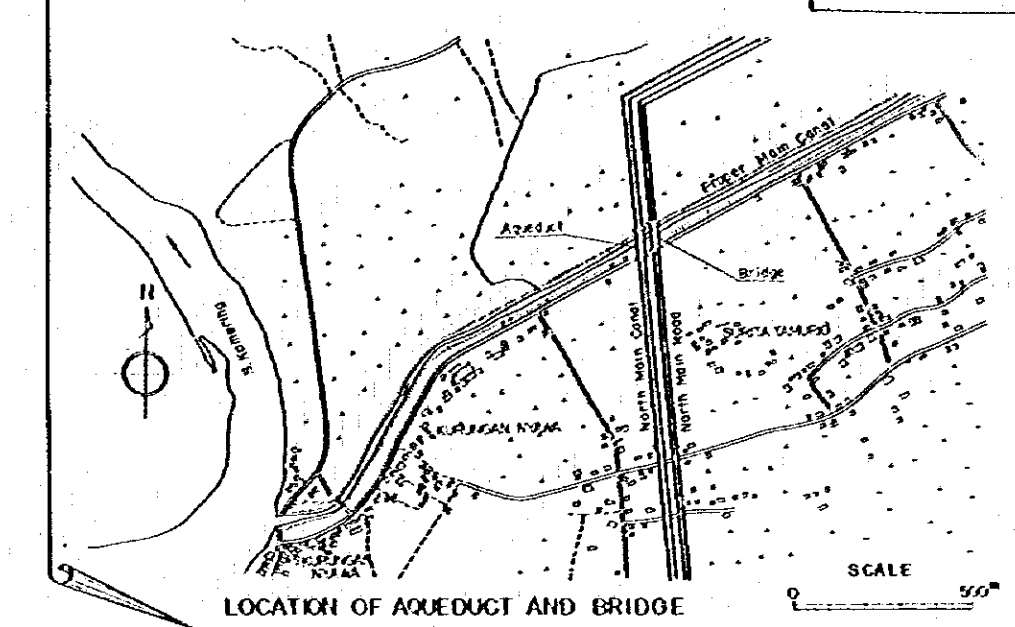
PROFILE VERTICAL SCALE - B HORIZONTAL SCALE - A



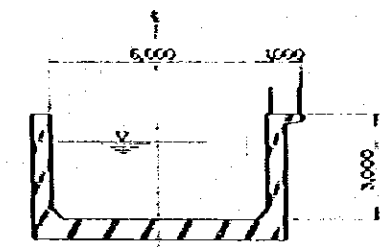
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
KOMERING - I IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
BIFURCATION	
JAPAN INTERNATIONAL COOPERATION AGENCY	DWG NO.
TOKYO	VI - 12



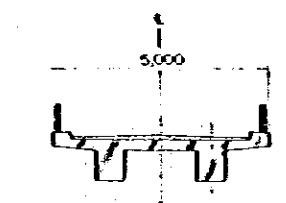
PLAN
SCALE - A



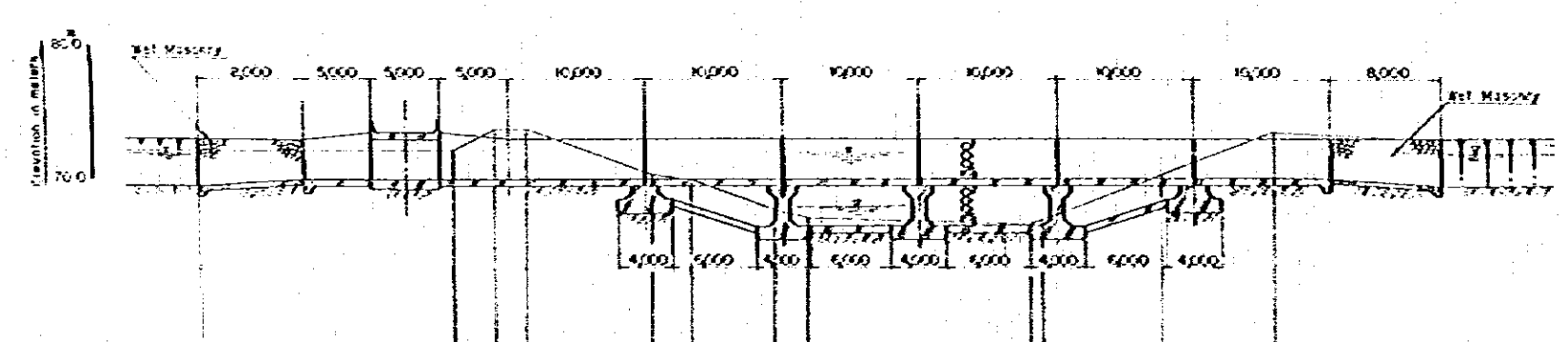
LOCATION OF AQUEDUCT AND BRIDGE



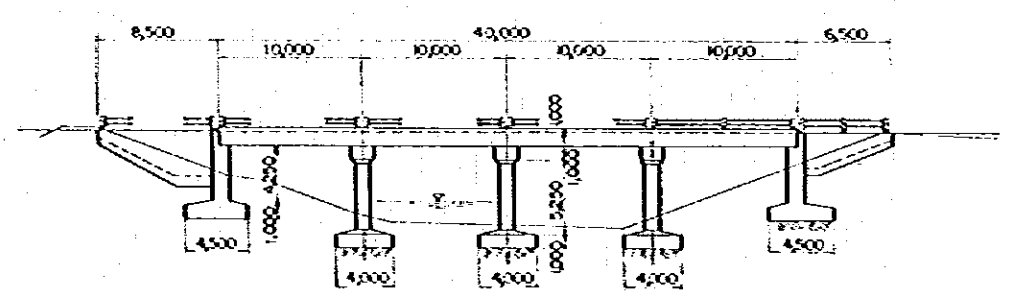
SECTION A-A
SCALE - B



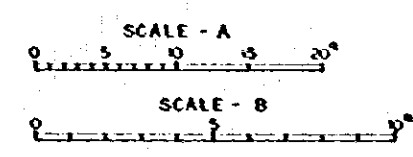
SECTION B-B
SCALE - B



PROFILE
SCALE - A



PROFILE
SCALE - A



GROUND SURFACE ELEVATION	REDUCED DISTANCE	DISTANCE	STATION
	41500		190.0-19.0
			172.0-17.0
			174.6-2.6
			183.4-8.6
			186.4-3.0
			192.4-6.0
			194.9-2.5
			202.1-5.1
			211.1-11.1
			212.0-12.0
			207.7-7.7
			210.7-10.7

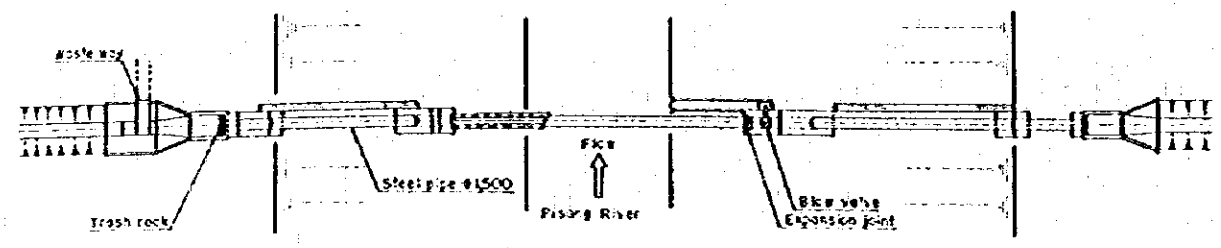
DEPARTMENT GENERAL OF WATER RESOURCES DEVELOPMENT
KOMERING-I IRRIGATION DEVELOPMENT PROJECT

TITLE OF DRAWINGS
AQUEDUCT AND BRIDGE - I
(PROPER MAIN CANAL)

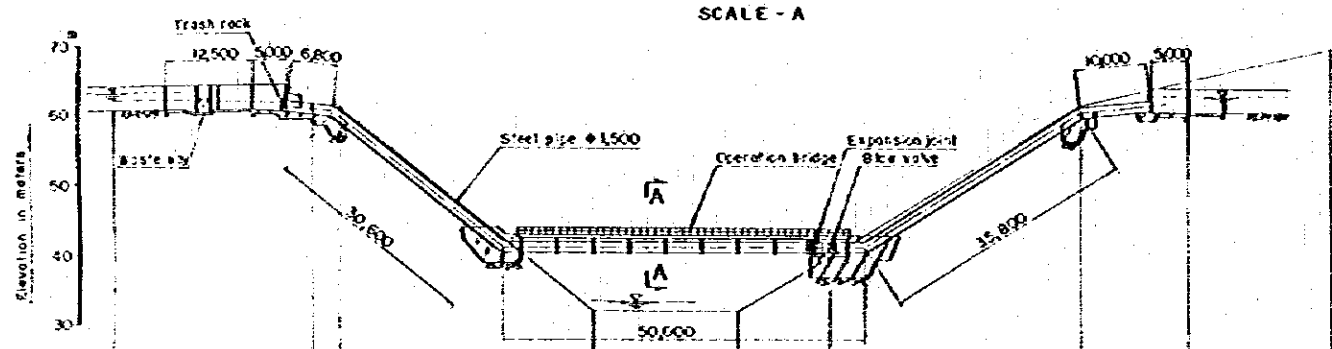
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO

DWG. NO.
VB-13

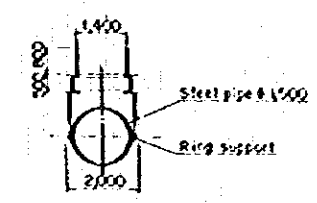
AQUEDUCT



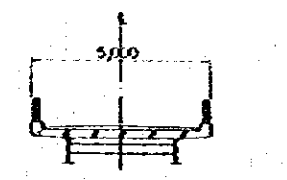
PLAN
SCALE - A



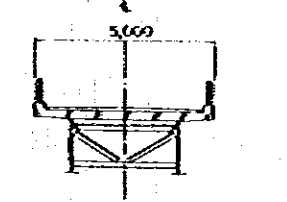
GROUND SURFACE ELEVATION	62.04	61.30	60.06	51.96	51.08	61.14	64.45	69.29
REDUCED DISTANCE	79000	29285	29324	29874	29874	30350	30350	30700
DISTANCE		20.8	3.6	35.0	20.0	12.6	35.0	15.0
STATION	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17



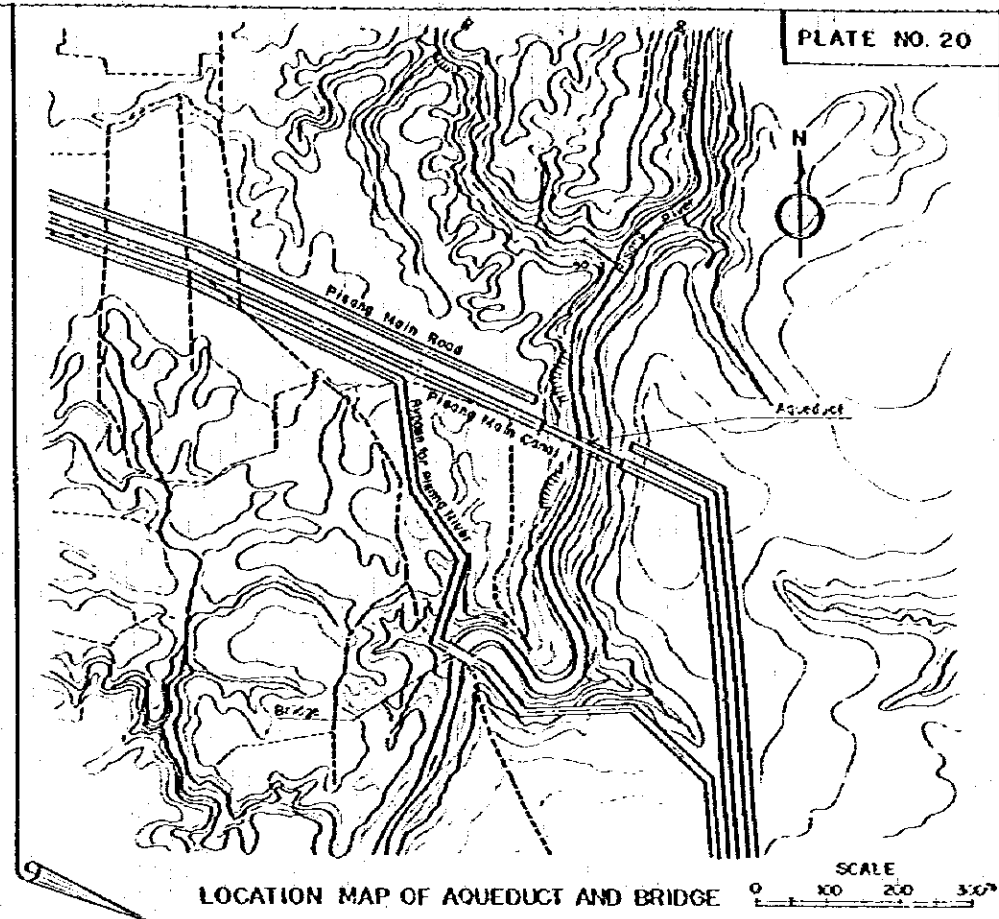
SECTION A-A
SCALE - C



SECTION B-B
SCALE - C



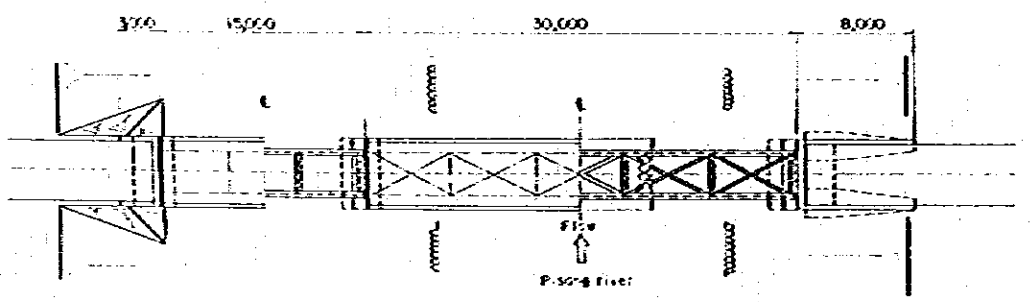
SECTION C-C
SCALE - C



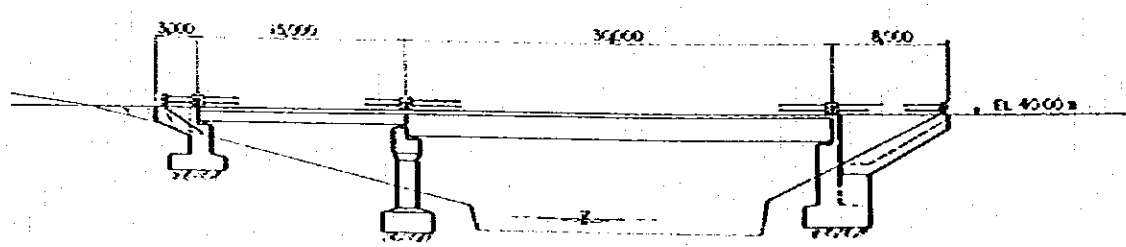
LOCATION MAP OF AQUEDUCT AND BRIDGE
SCALE 1:5000

PROFILE
SCALE - A

BRIDGE



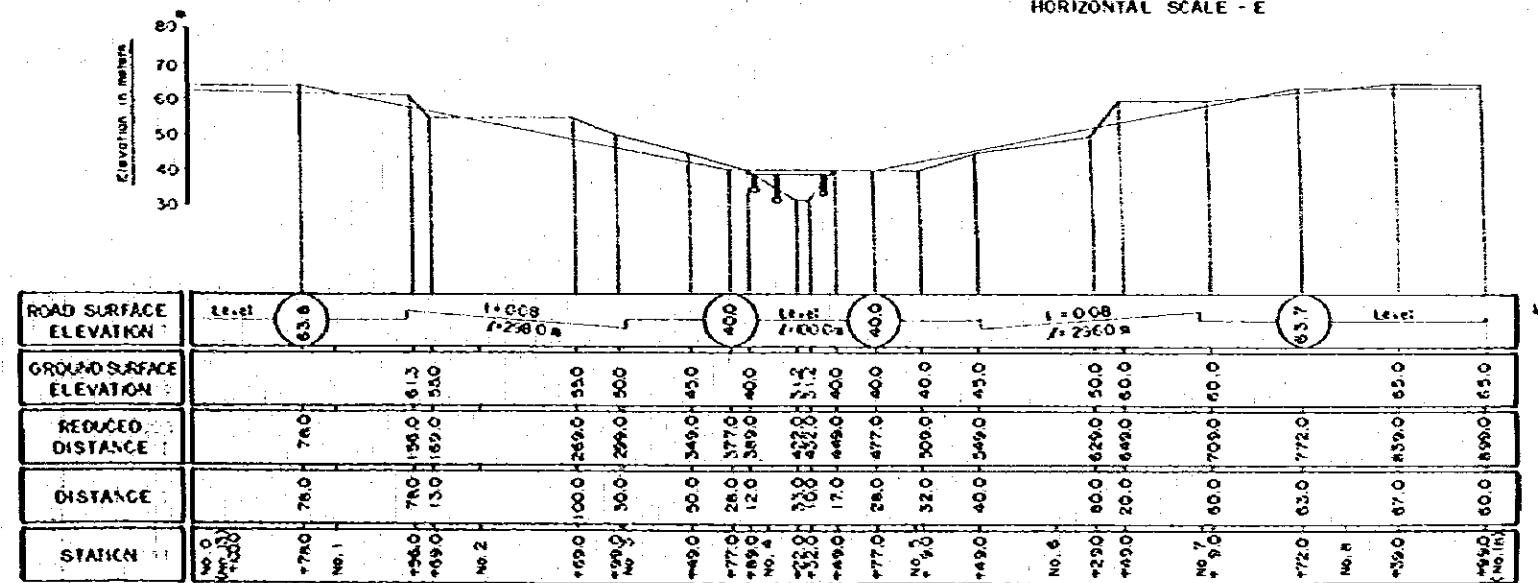
PLAN
SCALE - B



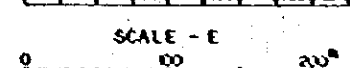
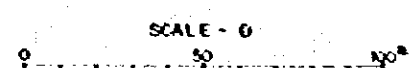
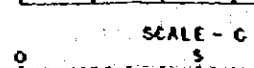
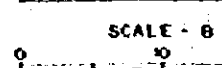
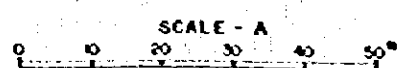
PROFILE
SCALE - B

PROFILL OF BYPASS

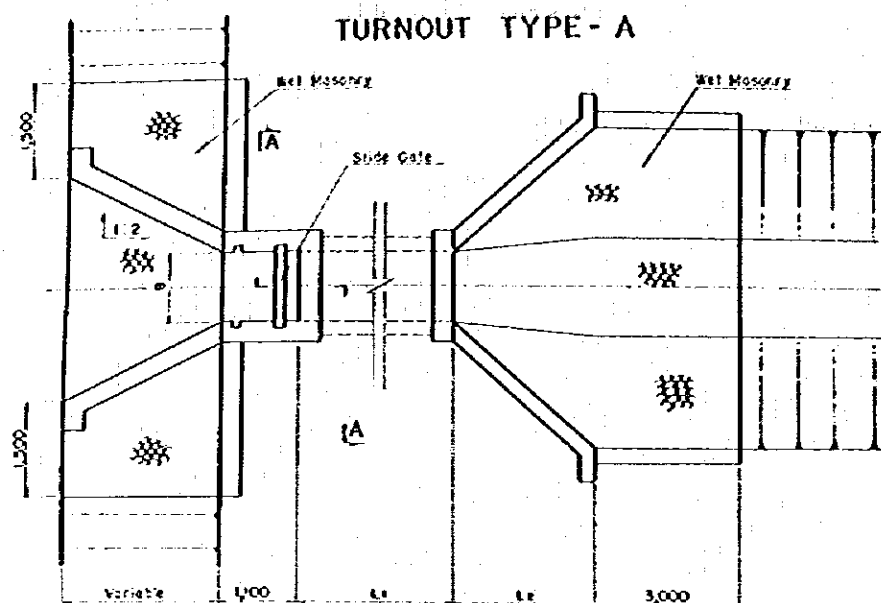
VERTICAL SCALE - D
HORIZONTAL SCALE - E



ROAD SURFACE ELEVATION	Level 63.8	Level 40.0	Level 40.0	Level 63.7	Level 65.0
GROUND SURFACE ELEVATION		61.3	55.0	50.0	65.0
REDUCED DISTANCE	76.0	156.0	269.0	349.0	626.0
DISTANCE	76.0	13.0	100.0	28.0	80.0
STATION	No. 1	No. 2	No. 3	No. 4	No. 5

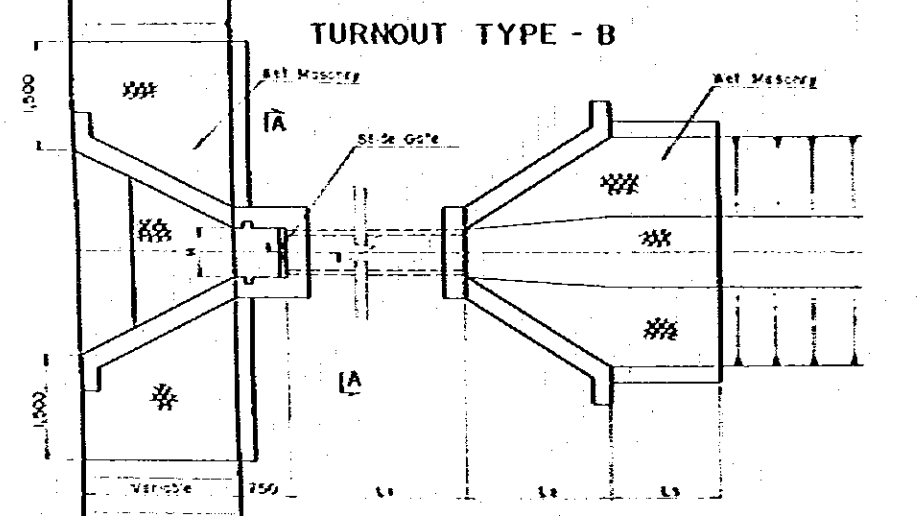
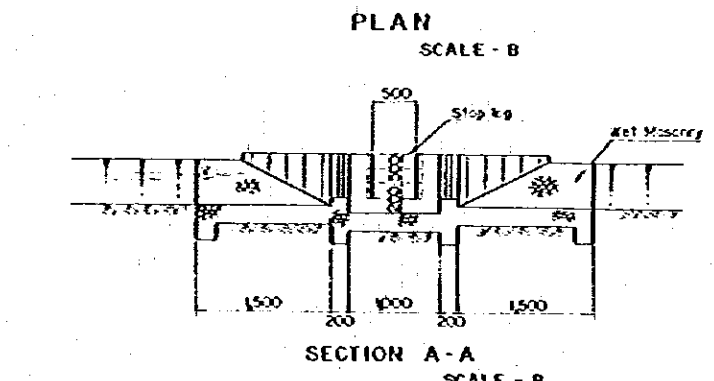
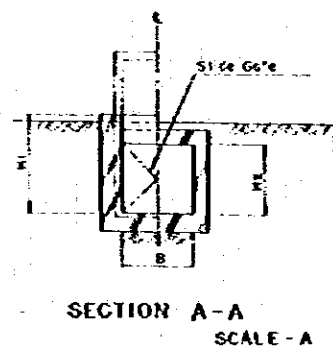
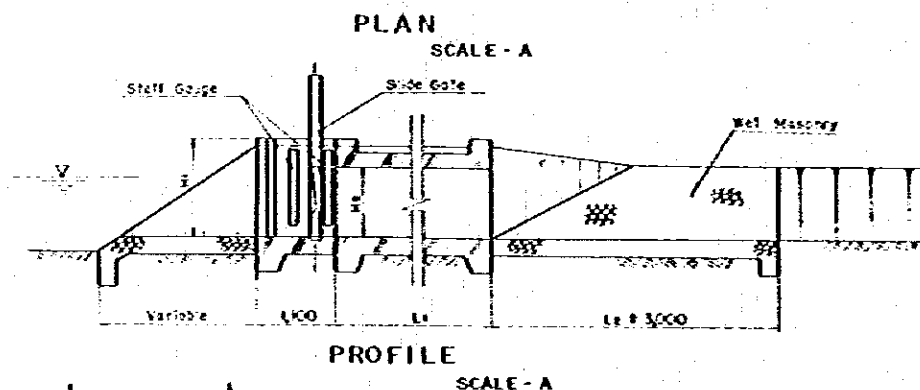
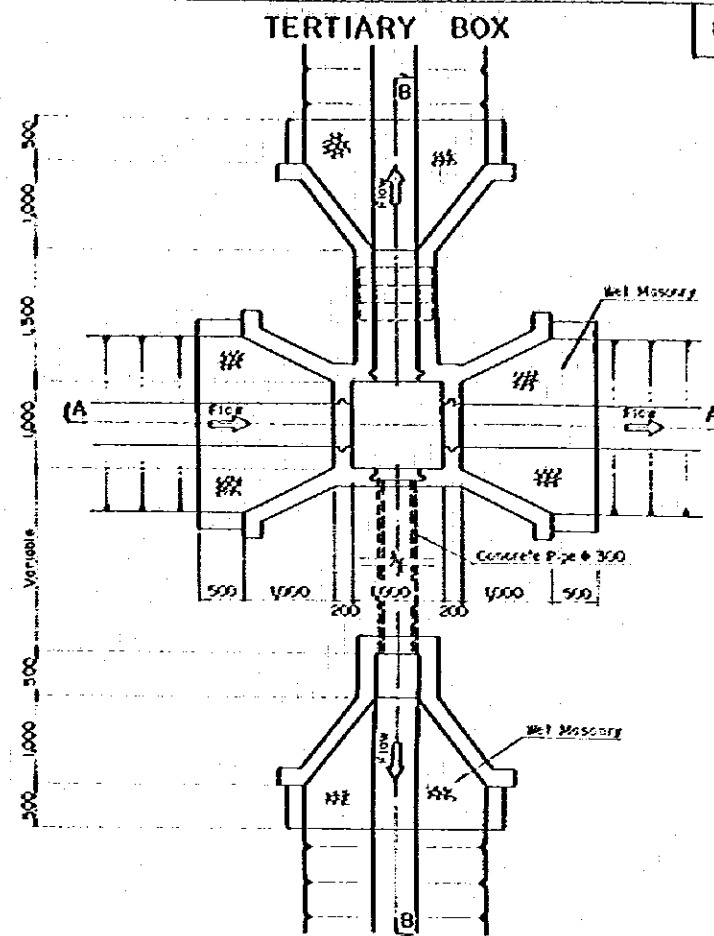


DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
KOMERING - I IRRIGATION DEVELOPMENT PROJECT
TITLE OF DRAWINGS
AQUEDUCT AND BRIDGE - II
(PISANO RIVER)
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO D.A.G. NO. VI - 14



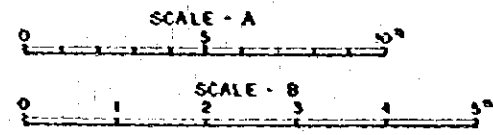
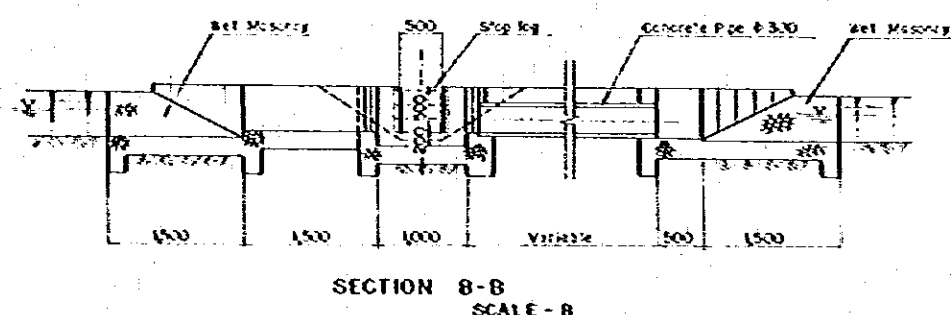
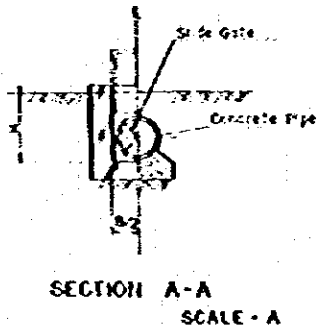
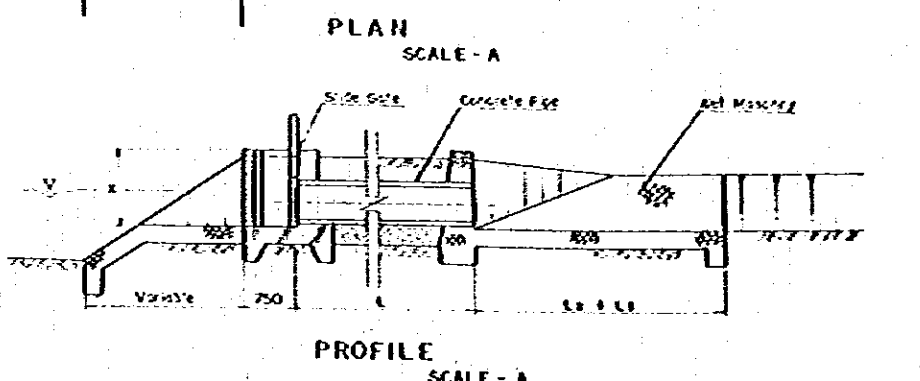
DIMENSIONS OF TURNOUTS TYPE - A

Discharge (m ³ /s)	L ₁	L ₂	B	H ₁	H ₂	Gate
3.60	20,000	4,000	2,000	3,000	2,200	20x20
2.88	27,000	.	.	2,500	1,800	20x16
2.50-2.00	20,000	.	1,500	.	.	15x16
2.00-1.50	27,000 20,000	.	.	2,200	1,500	15x15
1.50-1.00	27,000 20,000 6,000 1,000	3,000	1,300	2,000	1,300	13x13
1.00-0.80	27,000 20,000 6,000 1,000	.	1,100	1,800	1,100	11x11
0.80-0.60	27,000 20,000 6,000 1,000	.	1,000	1,700	1,000	10x10



DIMENSIONS OF TURNOUTS TYPE - B

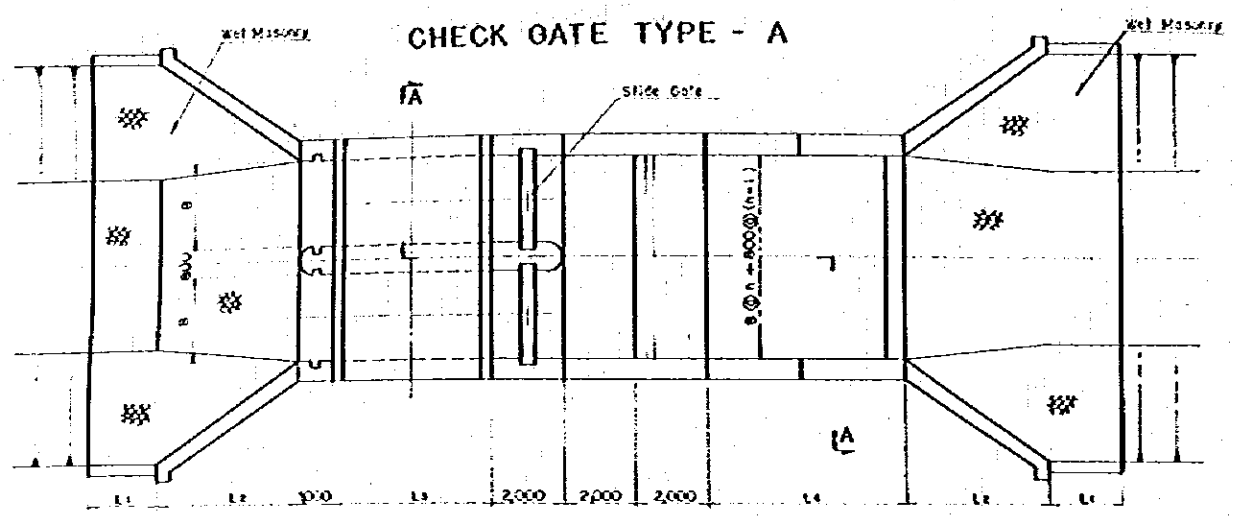
Discharge (m ³ /s)	L ₁	L ₂	L ₃	B	H	Pipe φ	Gate
0.60-0.40	27,000 20,000 6,000 1,000	3,000	3,000	1,100	1,800	φ 500	φ 500
0.40-0.20	27,000 20,000 6,000 1,000	.	.	900	1,600	φ 700	φ 700
0.20-0.10	27,000 20,000 6,000 1,000	.	.	700	1,400	φ 500	φ 500
0.10-0.05	27,000 20,000 6,000 1,000	2,000	2,000	600	1,300	φ 400	φ 400
0.05-	27,000 20,000 6,000 1,000	.	.	500	1,200	φ 300	φ 300



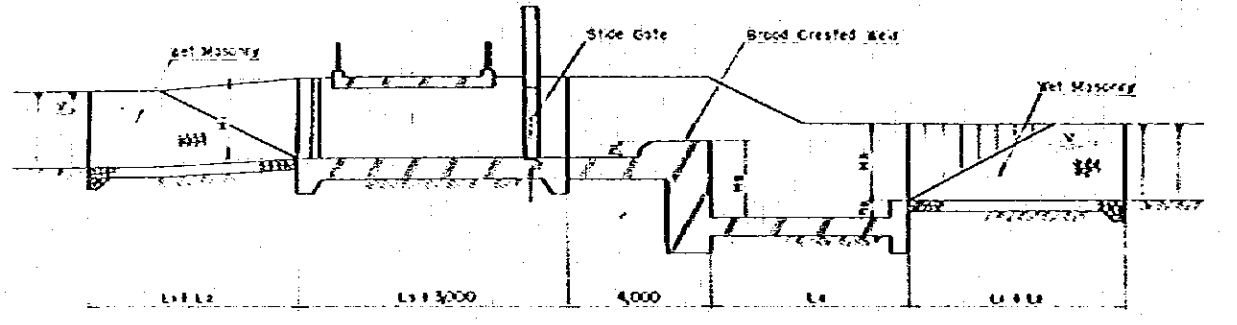
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
KOMERING-1 IRRIGATION DEVELOPMENT PROJECT

TITLE OF DRAWINGS
TURNOUT AND TERTIARY BOX

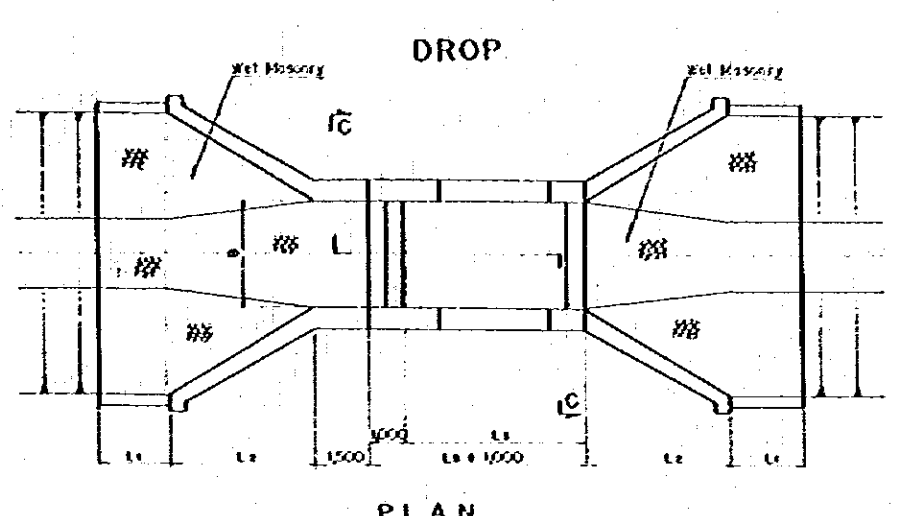
JAPAN INTERNATIONAL COOPERATION AGENCY D.A.G. NO.
TOKYO VII - 15



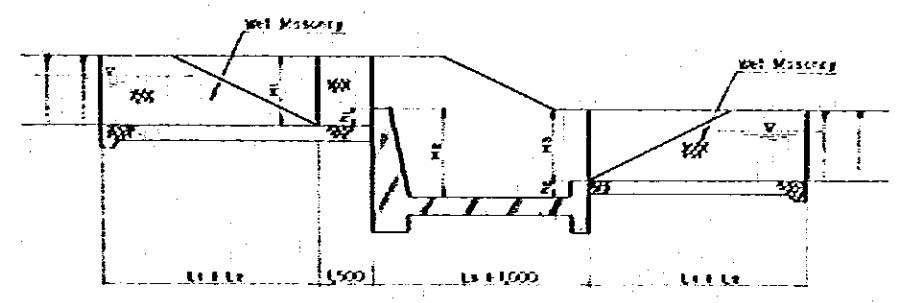
PLAN



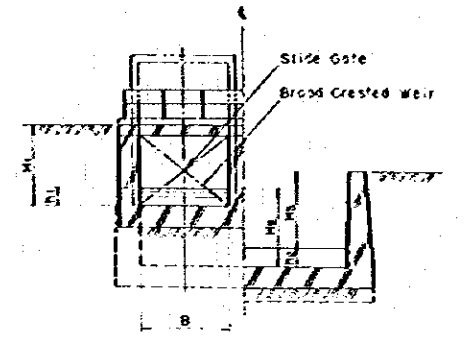
PROFILE



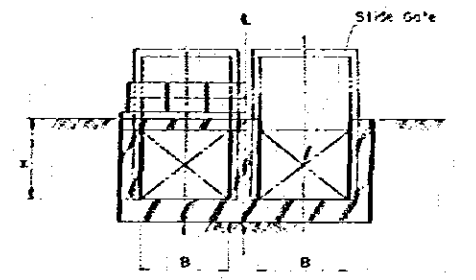
PLAN



PROFILE

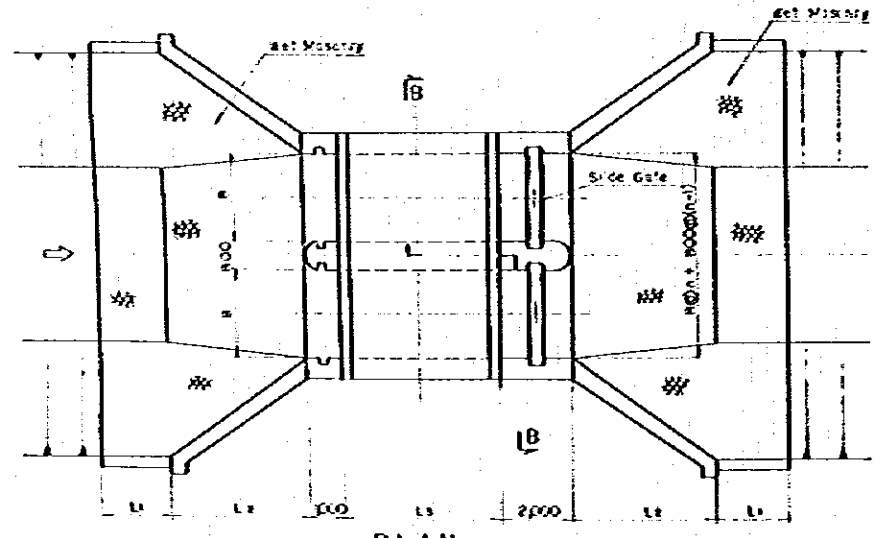


SECTION A-A

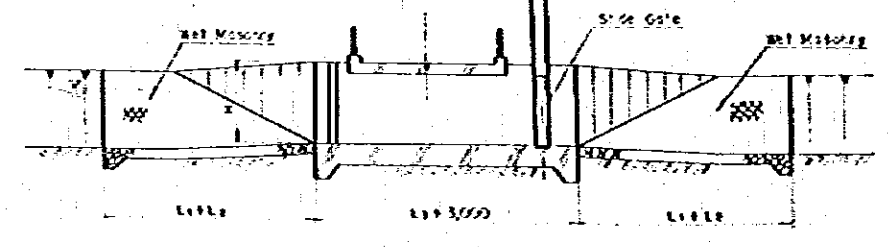


SECTION B-B

CHECK GATE TYPE - B



PLAN



PROFILE

DIMENSIONS OF CHECK GATES

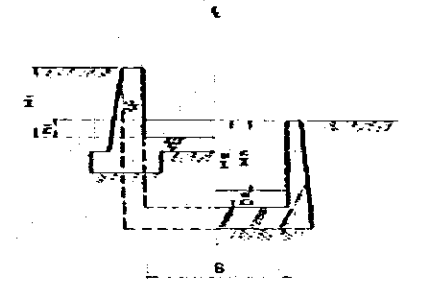
Discharge (cms)	TYPE - A				B	n	H	Drop 20m				H3	P1	P2	Gate
	L1	L2	L3	L4				Drop 15m	Drop 10m	Drop 5m	Drop 0.5m				
200 ~ 150	3,000	4,000	4,500	7,000	2,500	4	2,500	3,200	2,700	2,200	1,700	2,500	750	500	25 x 20
150 ~ 100	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-
100 ~ 50	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
50 ~ 20	-	-	-	-	-	1	-	-	-	-	-	-	650	-	-
20 ~ 10	-	3,000	-	6,000	1,500	1	1,800	-	-	-	-	1,800	450	-	15 x 15

TYPE - B

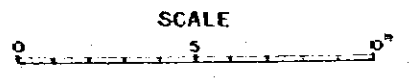
Discharge (cms)	L1	L2	L3	B	n	H	Gate
200 ~ 150	3,000	4,000	4,500	2,500	4	2,500	25 x 20
150 ~ 100	-	-	-	-	3	-	-
100 ~ 50	-	-	-	-	2	-	-
50 ~ 20	-	-	-	-	1	-	-
20 ~ 10	-	3,000	-	1,500	1	1,800	15 x 15
10 ~ 05	-	-	-	1,000	1	1,500	10 x 10
05 ~	1,500	2,000	3,000	600	1	800	-

DIMENSIONS OF DROPS

Discharge (cms)	Drop 20m				Drop 15m				Drop 10m				H3	P1	P2
	L1	L2	L3	B	H1	Drop 20m	Drop 15m	Drop 10m	H3	P1	P2				
30 ~ 20	3,000	4,000	4,500	2,000	2,000	3,300	2,800	2,300	2,000	800	500	-	-	-	-
20 ~ 12	-	3,000	-	1,500	1,800	3,100	2,600	2,100	1,800	600	-	-	-	-	-
12 ~ 08	-	-	4,000	1,200	1,500	2,900	2,400	1,900	1,500	400	-	-	-	-	-
08 ~ 06	2,000	2,000	-	1,000	1,200	2,600	2,100	1,500	1,200	300	300	-	-	-	-
06 ~ 04	-	-	3,000	-	1,000	2,300	2,000	1,500	1,000	200	-	-	-	-	-
04 ~ 02	-	-	-	-	800	2,300	1,800	1,300	800	-	-	-	-	-	-
02 ~ 01	-	-	-	-	500	-	-	-	500	-	-	-	-	-	-



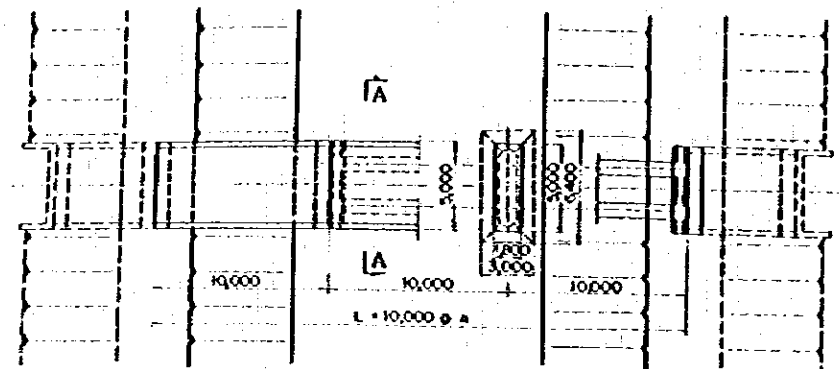
SECTION C-C



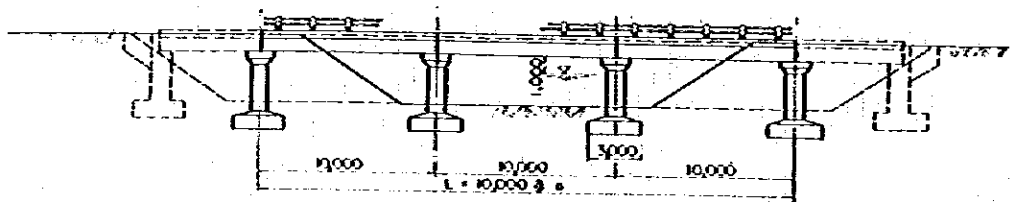
SCALE

DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMERING-I IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWINGS
CHECK GATE AND DROP
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO
 D.W.G. NO.
 91 - 16

BRIDGE TYPE - A

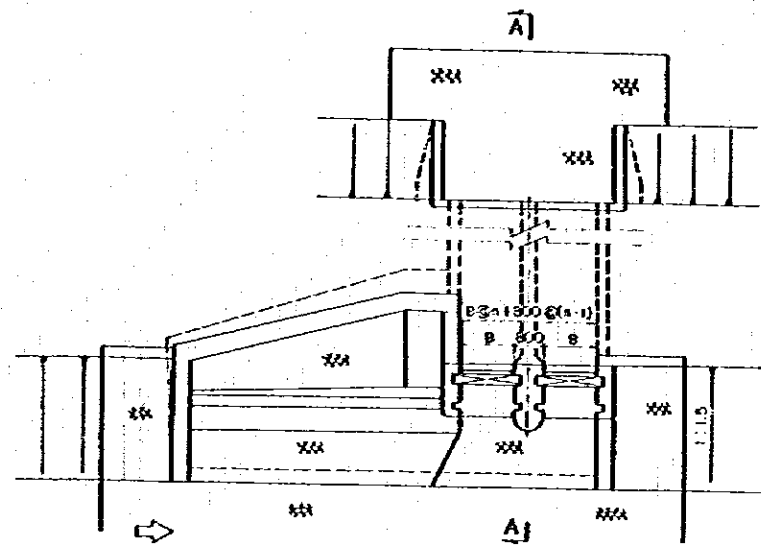


PLAN SCALE - A



PROFILE SCALE - A

SPILL WAY AND WASTE WAYS

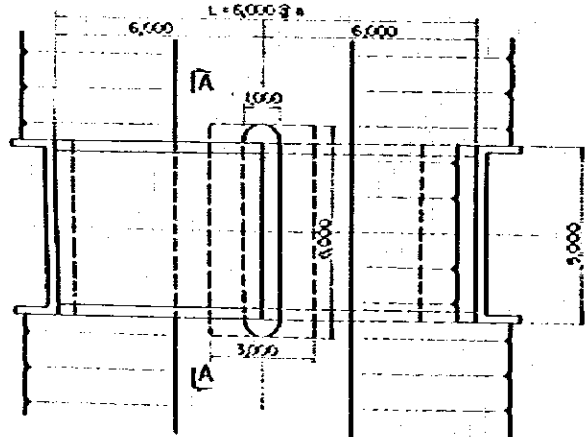


PLAN SCALE - B

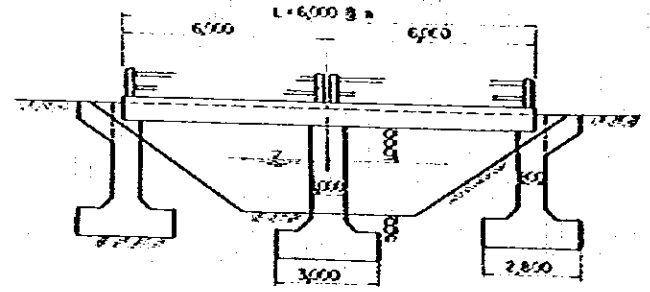
DIMENSIONS OF SPILL WAY & WASTE WAYS

Discharge (m ³ /s)	B	n	L ₁	L ₂
15.0 ~ 9.0	2,000	2	15,000 ~ 10,000	15,000 ~ 5,000
9.0 ~ 4.5	1,500	2	15,000 ~ 5,000	15,000 ~ 5,000
4.5 ~ 2.5	1,500	1	10,000 ~ 5,000	15,000 ~ 5,000
2.5 ~ 2.0	1,200	1	10,000 ~ 5,000	15,000 ~ 5,000
2.0 ~ 1.0	1,000	1	10,000 ~ 5,000	15,000 ~ 5,000

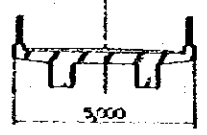
BRIDGE TYPE - B



PLAN SCALE - B



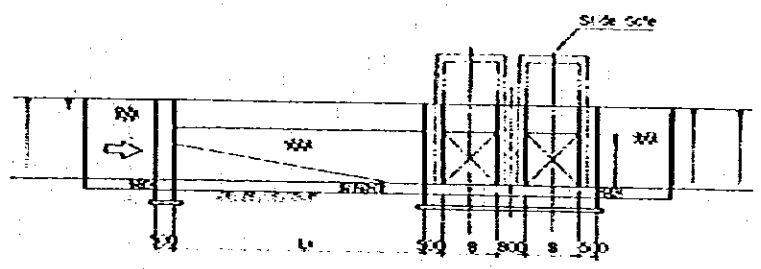
PROFILE SCALE - B



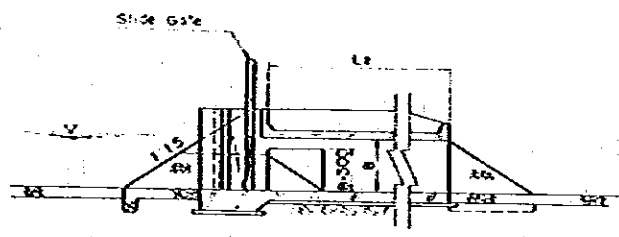
SECTION A-A SCALE - B



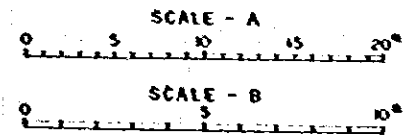
SECTION A-A SCALE - B



PROFILE SCALE - B

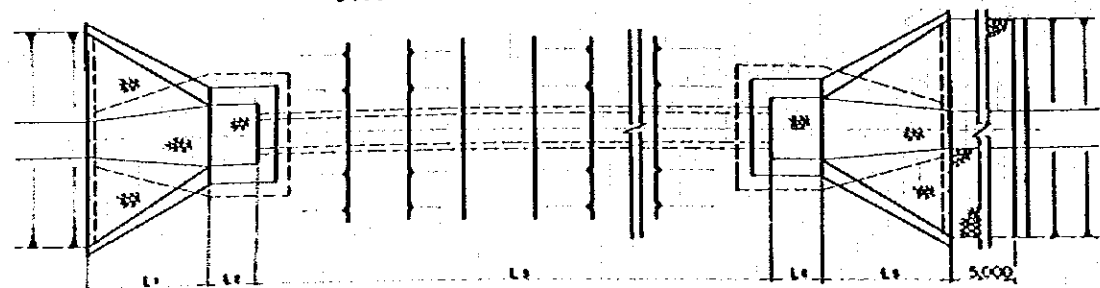


SECTION A-A SCALE - B

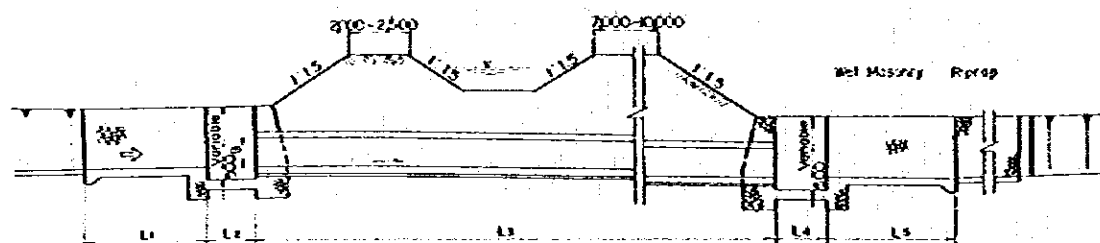


DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMERING-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWINGS
BRIDGE, SPILL WAY AND WASTE WAY
 JAPAN INTERNATIONAL COOPERATION AGENCY D.G.O. NO.
 TOKYO VI - 17

CROSS DRAIN TYPE - A

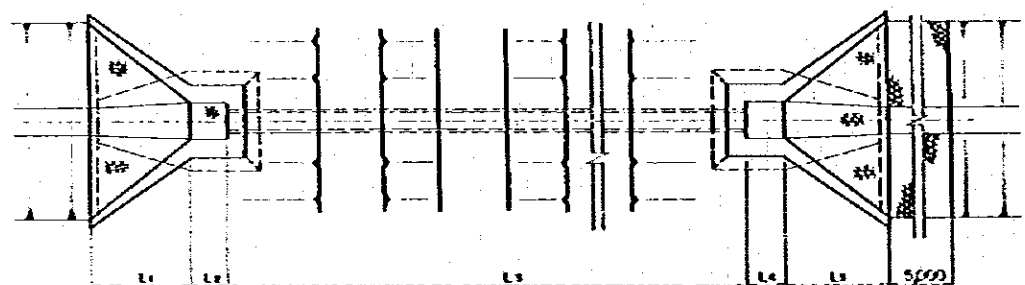


PLAN
SCALE - A

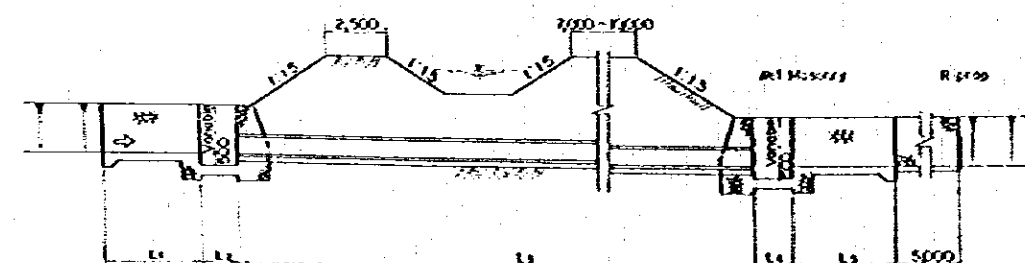


PROFILE
SCALE - A

CROSS DRAIN TYPE - B



PLAN
SCALE - A

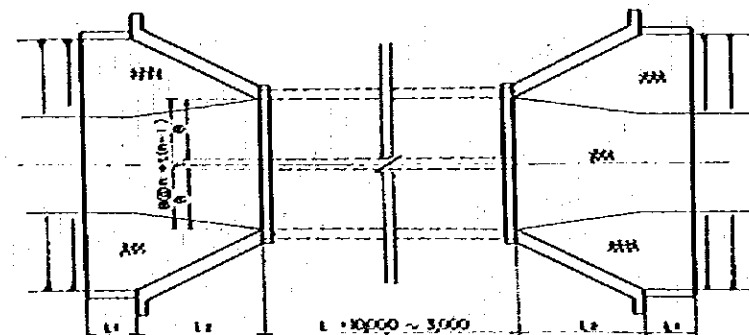


PROFILE
SCALE - A

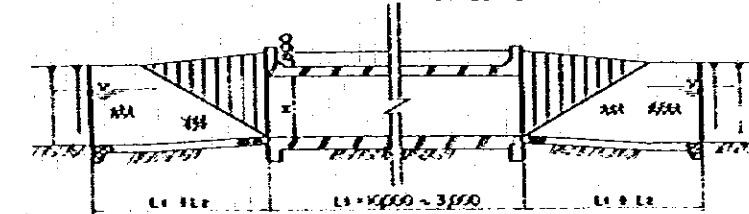
DIMENSION OF CROSS DRAINS

TYPE	Culvert Discharge (m ³ /sec)	L ₁	L ₂	L ₃	L ₄	L ₅	B	H
TYPE - A	60 - 30	7,000	3,000	40,000 - 30,000	3,000	7,000	2,500	1
	30 - 20	6,000	2,500	40,000 - 30,000	2,500	6,000	2,000	1
	20 - 12	5,000	2,000	40,000 - 30,000	2,000	5,000	1,500	1
	12 - 08	5,000	2,000	40,000 - 30,000	2,000	5,000	1,200	1
TYPE - B	08 - 06	4,500	1,500	40,000 - 30,000	1,500	4,500	1,000	1
	06 - 04	4,000	1,500	40,000 - 25,000	1,500	4,000	900	1
	04 - 02	4,000	1,500	40,000 - 25,000	1,500	4,000	900	1

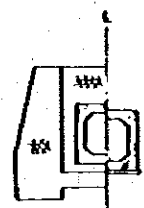
CULVERT TYPE - A



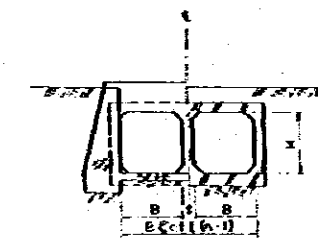
PLAN
SCALE - B



PROFILE
SCALE - B

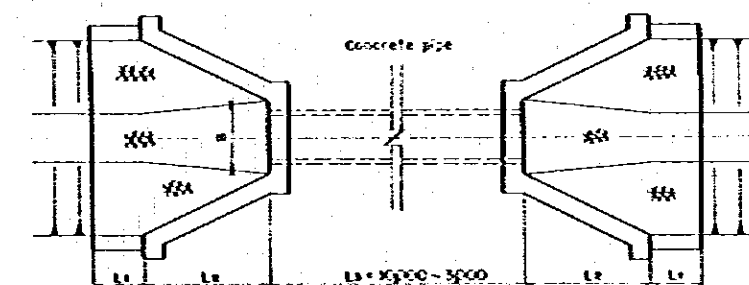


SECTION A-A
SCALE - C

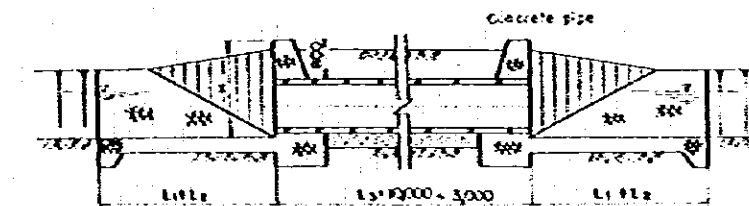


SECTION A-A
SCALE - A

CULVERT TYPE - B



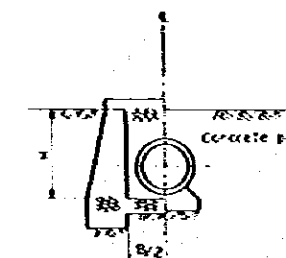
PLAN
SCALE - D



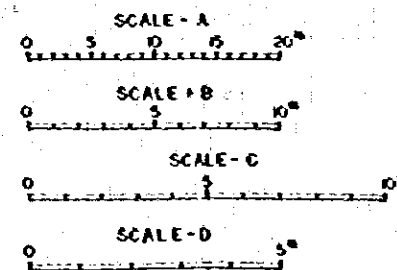
PROFILE
SCALE - D



SECTION B-B
SCALE - C



SECTION B-B
SCALE - B



DIMENSIONS OF CULVERTS

TYPE	Culvert Discharge (m ³ /sec)	L ₁	L ₂	B	H	I	Pipe	n
TYPE - A	100 - 60	2,000	5,000	2,500	2,500	300	-	2
	60 - 30	-	-	-	-	-	-	1
	30 - 20	-	-	2,000	2,000	250	-	1
	20 - 10	1,500	4,000	1,500	1,500	-	-	1
TYPE - B	10 - 06	-	-	1,000	1,000	200	-	1
	06 - 04	4,000	3,000	1,300	2,000	-	8900	-
	04 - 01	-	-	1,100	1,800	-	8700	-

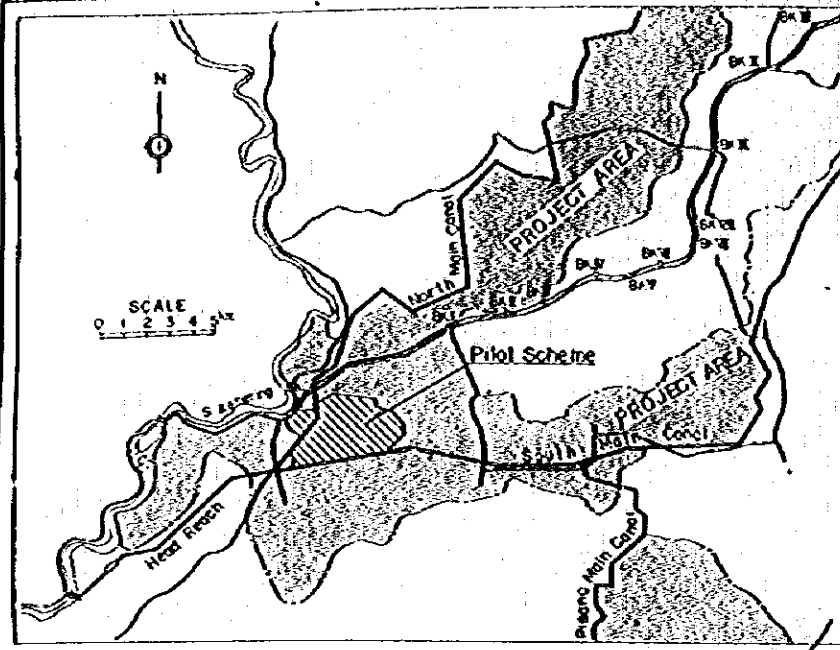
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
KOMENGO-I IRRIGATION DEVELOPMENT PROJECT

TITLE OF DRAWINGS

CULVERT AND CROSS DRAINS

JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO

DWG. NO. VI - 18

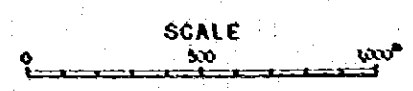


LEGEND

- Pump Station
- Secondary Canal
- Tertiary Canal
- Secondary Drain
- Tertiary Drain
- Inspection Road
- Boundary

GROSS AREA 870 ha
NET AREA 700 ha

- 1 PEAK WATER REQUIREMENTS
100 m³/sec
- 2 PUMP STATION
Design Discharge 300 m³/min
Pump Type Double Suction Volute Pump (2 Nos)
Actual Pump Head 10.0m



DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
KOMERING-I IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
LAYOUT MAP OF PILOT SCHEME	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO	DWG. NO. II - 01

JICA

