

REPUBLIC OF INDONESIA
Ministry of Public Works
Directorate General of Water Resources Development

FEASIBILITY STUDY
ON
THE KOMERING-I IRRIGATION
DEVELOPMENT PROJECT
IN
THE UPPER KOMERING RIVER BASIN

VOLUME III
DRAWINGS

JUNE 1981

Japan International Cooperation Agency
Tokyo, Japan

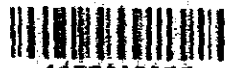
DANAU RAMAU

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81-26

VOLUME III
DRAWINGS

16 67

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REPUBLIC OF INDONESIA
Ministry of Public Works
Directorate General of Water Resources Development

FEASIBILITY STUDY

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THE KOMERING-I IRRIGATION

DEVELOPMENT PROJECT

IN

THE UPPER KOMERING RIVER BASIN

VOLUME III

DRAWINGS

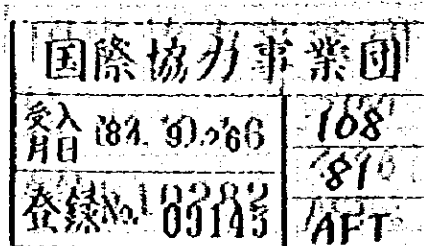
JUNE 1981

Japan International Cooperation Agency
Tokyo, Japan

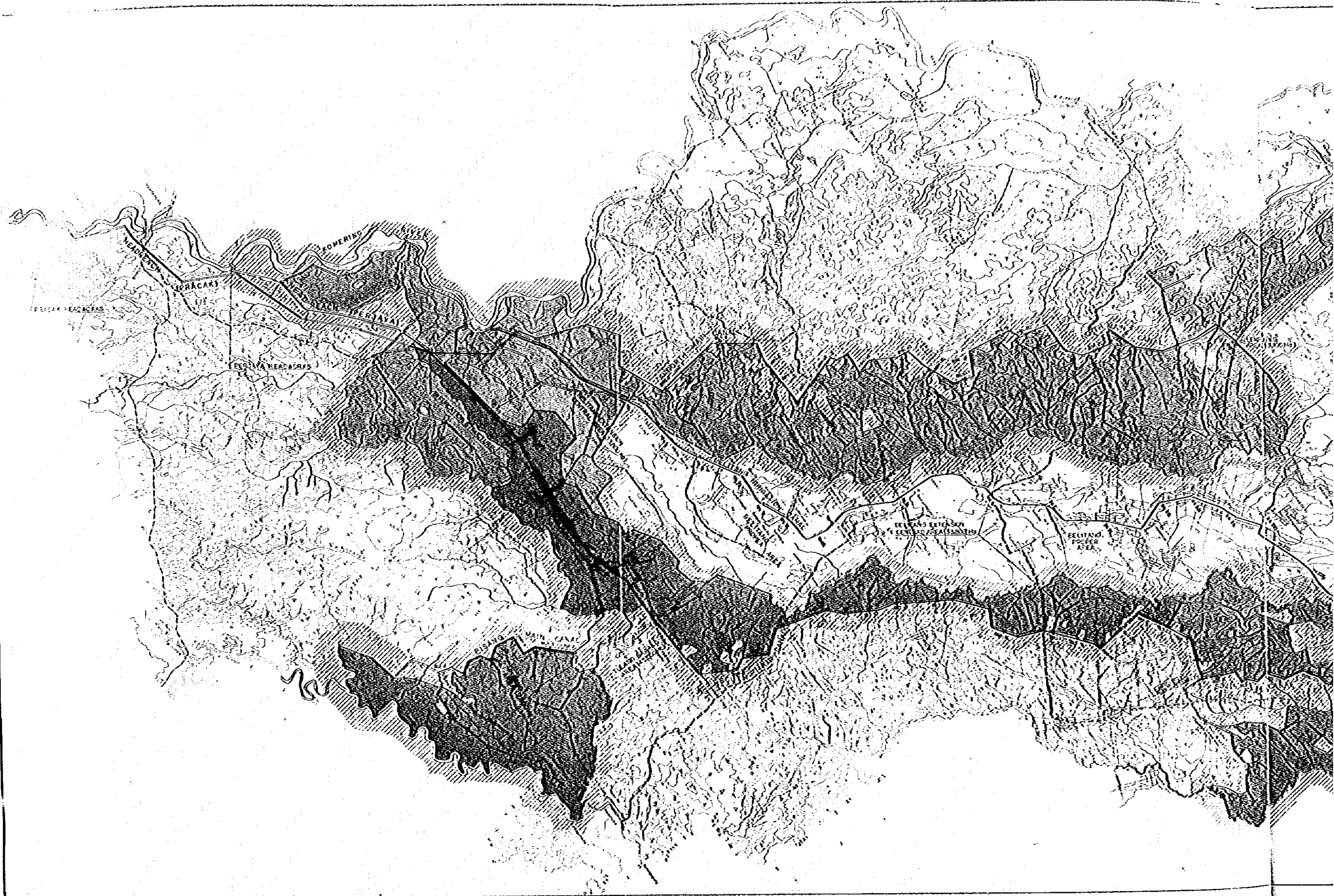
KOMERING-I IRRIGATION DEVELOPMENT PROJECT

LIST OF DRAWINGS

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15	VII-09	SOUTH MAIN CANAL PROFILE (2/3)
16	VII-10	SOUTH MAIN CANAL PROFILE (3/3) PISANG MAIN CANAL PROFILE
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18	VII-12	BIFURCATION
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22	VII-16	CHECK GATE AND DROP
23	VII-17	BRIDGE, SPILLWAY AND WASTEWAY
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25	XII-01	LAYOUT OF PILOT SCHEME



НЕДРЕЧКА

МОРАВА

КОПРИВА

СРБИЈА

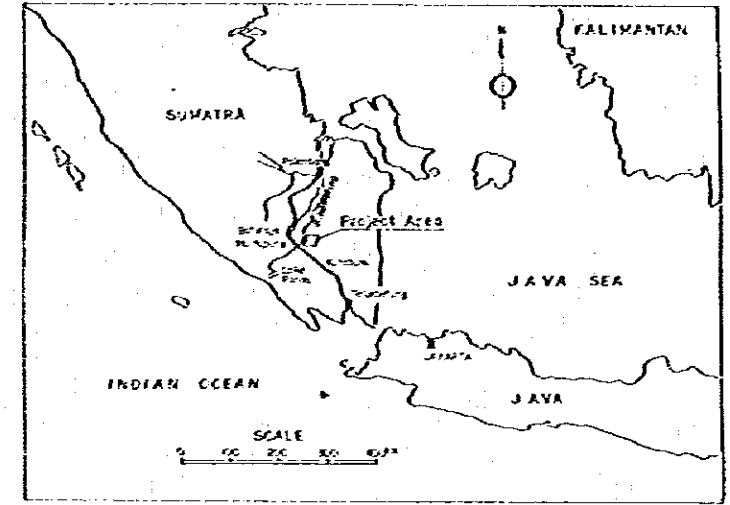
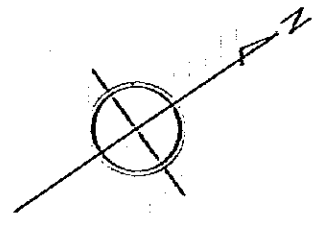
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БЕЛАНЦИ

БЕЛАНЦИ

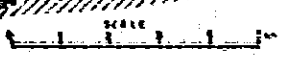
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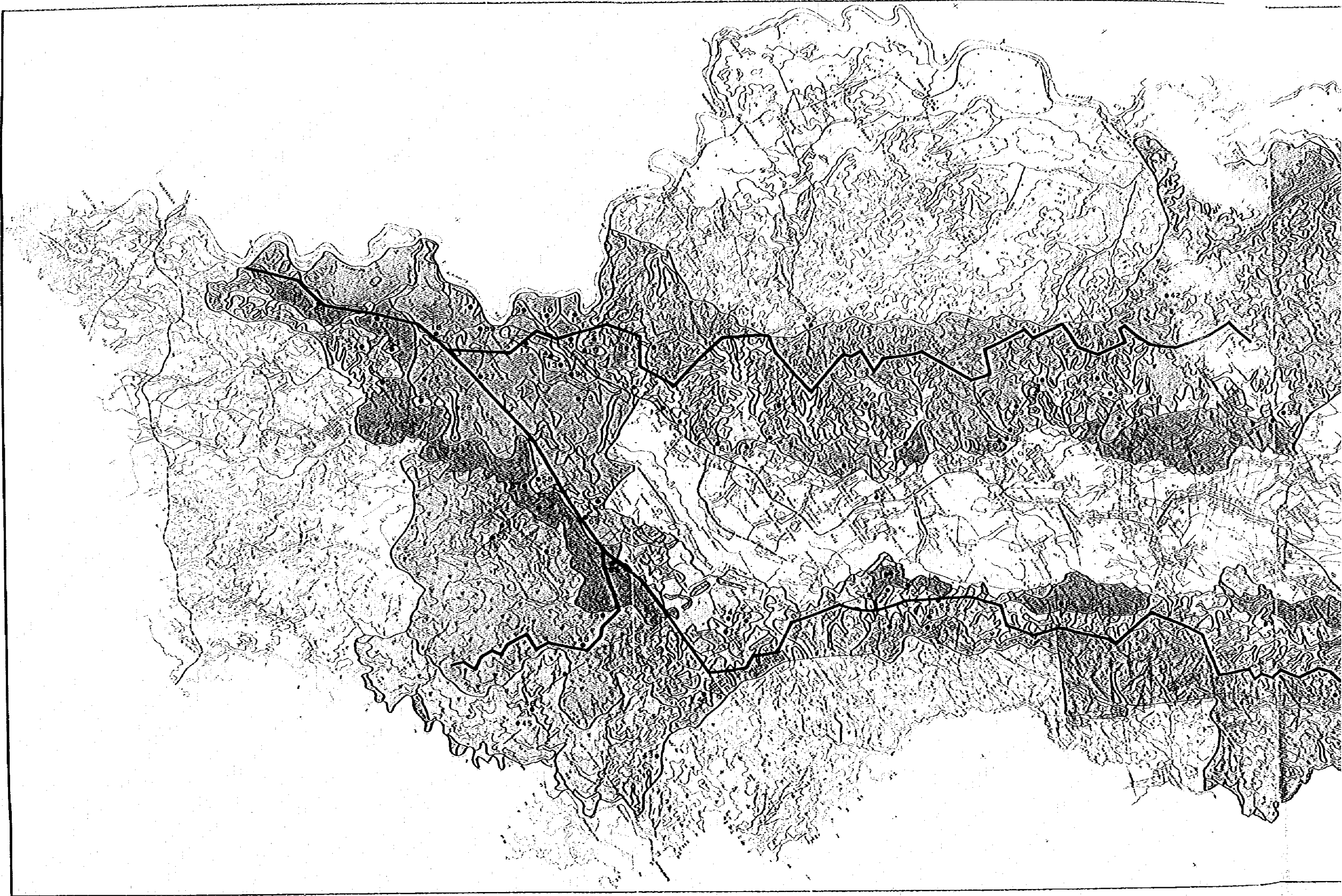


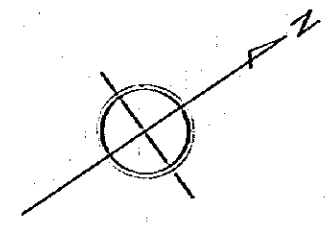
LEGEND

Weir	Tunnel for Tertiary Canal
Drain Channel	Check Gate at Main Canal
Spring Box	Aqueduct
Headrack (Project, Main Canal)	Bridge
Headrack (Farm)	Pumping Station
Secondary Canal	Pump Station for pwp scheme
Main Drain	Driped on Road
Secondary Drain	New Existing Road
Branches	Boundary
Tunnel for Secondary Canal	Scheme-I
	Scheme-II



DEVELOPE GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMPANG-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWINGS
GENERAL LAYOUT MAP
 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) NO.
 TOKYO 1-01

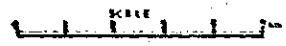




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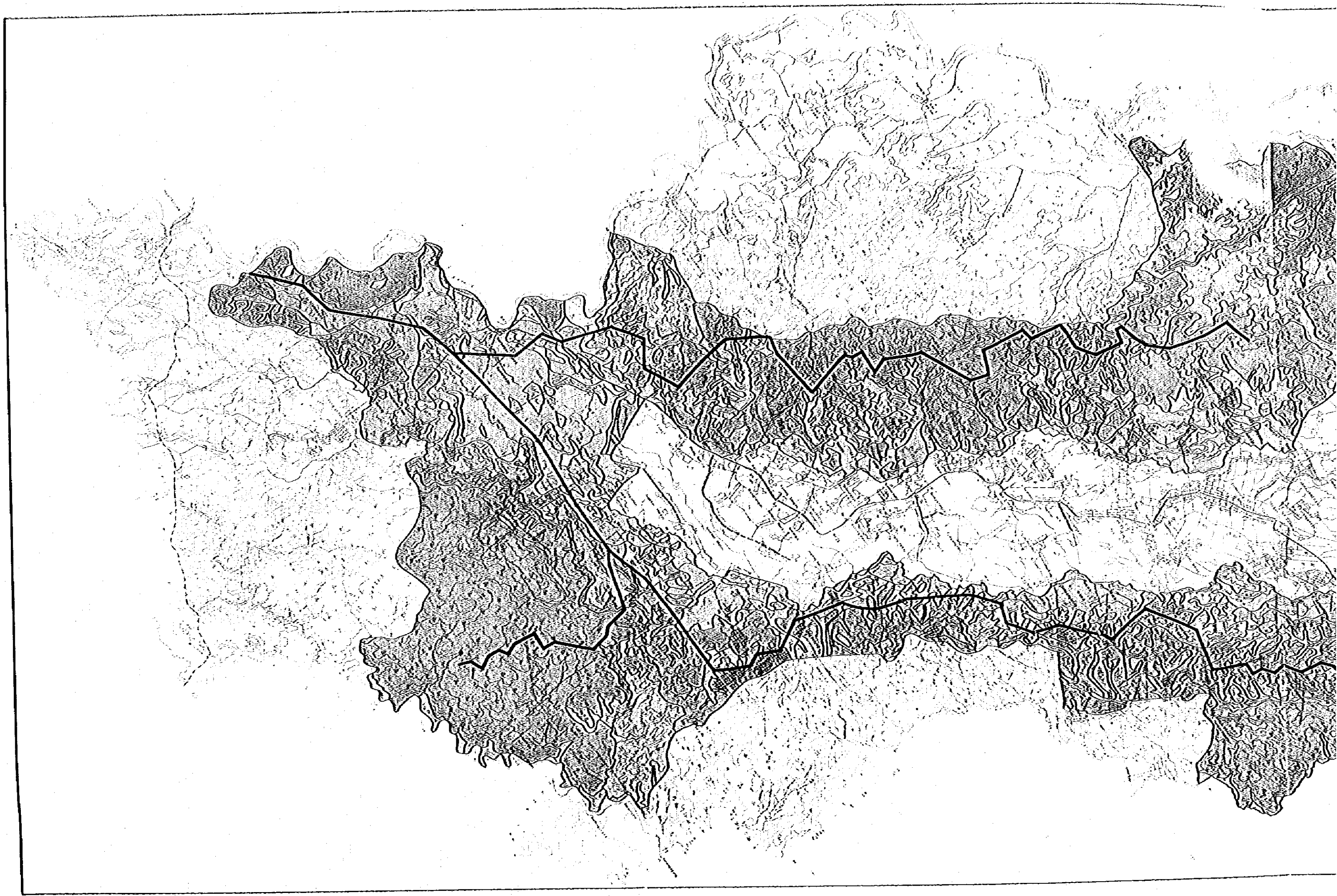
Soil Type	Map No.	Land Use	Soil Area (Ha)	Area (%)	Soil Area (Ha)	Area (%)
Amount of Red Soil	1	Red soil	45-50	51	1150	24
Amount of Red Soil	2	Low grade	10-20	12	545	11
Amount of Gray Soil, Alluvial Soil and Brownish Soil	3	Flat land	0-50	10	850	17
Amount of Alluvial Soil	4	Flat land	1-20	1	100	2
Amount of Red Soil and Brownish Soil	5	Flat land	1-20	2	135	3
Amount of Alluvial Soil, Clayey Soil and Brownish Soil	6	Flat land	0-20	9	670	13
Amount of Alluvial Soil and Clayey Soil	7	Alluvial soil	0-20	10	820	16
Amount of Clayey Soil and Brownish Soil	8	Clayey	4-50	5	470	9
Total			88.70	100	3080	100

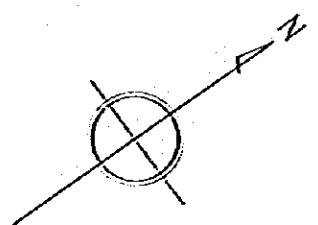
015 Topographic map



DISCRETE GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMERANG-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWING
SOIL MAP OF THE PROJECT AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO

DWG NO
 11-01



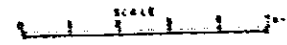


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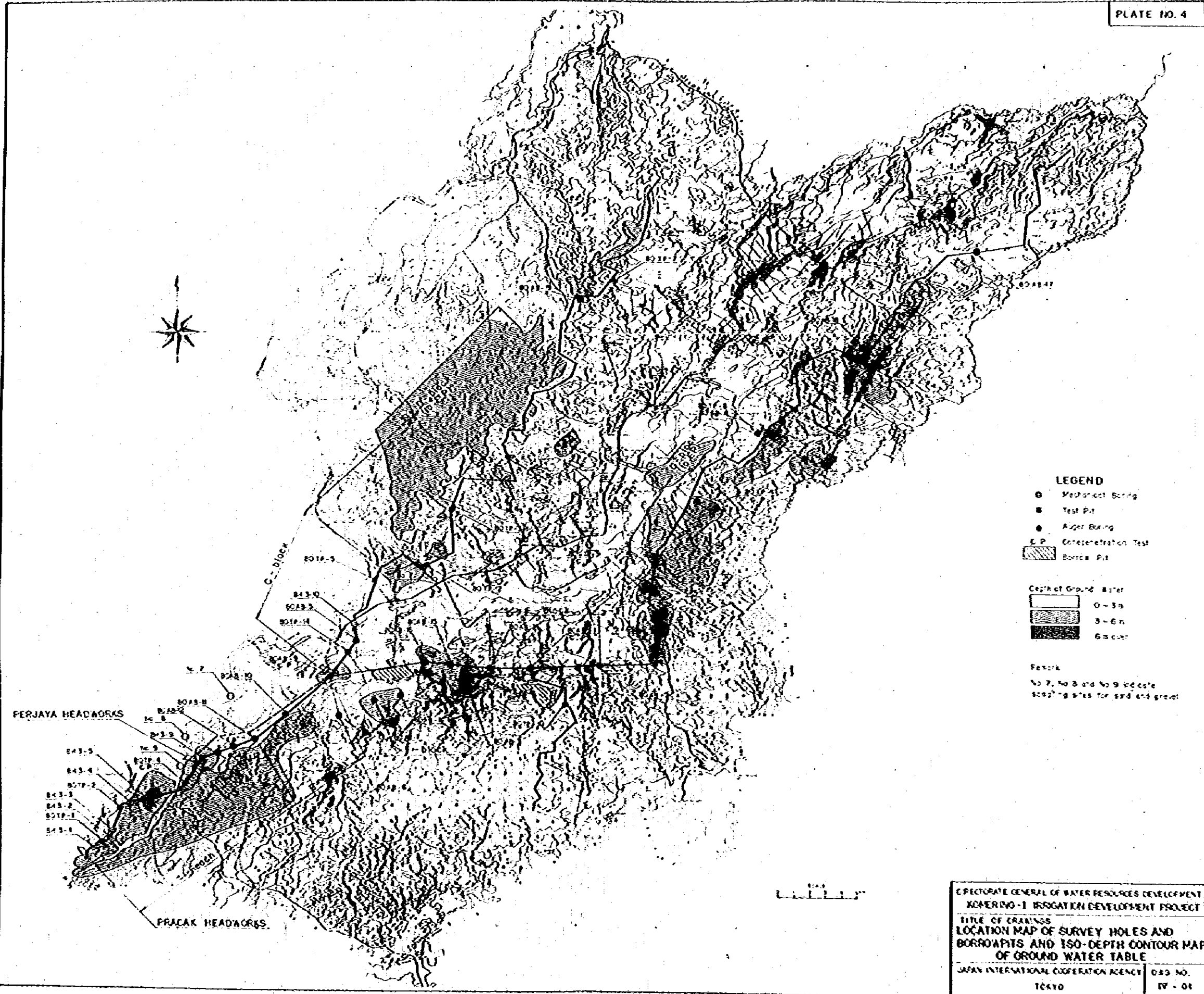
Suitability Class	Map No. (1/25,000)	Suitability Subclass	Slope Area		Grass/Forest Area	
			Actual	Proposed	Actual	Proposed
Highly suitable	1	S1	11,120	12	15,000	20
Medium suitable	2	S2, S2b	11,710	15	9,500	20
Moderately suitable	3	S3a, S3b, S3c	43,740	55	24,400	48
			72,570	80	44,380	88
Conditionally highly suitable	4	S4	1,500	2	1,270	3
Conditionally moderately suitable	5	S2c	450	1	400	1
Conditionally unsuitable	6	N1	11,470	15	3,820	7
Potentially unsuitable	7, 8	N2	3,620	4	700	1
			17,130	20	6,250	12
Total			89,700	100	50,630	60

Flowing streambeds and water courses are shown with solid lines. The use of the term 'highly suitable' is based on the following criteria:

Category	Suitability Subclass	Proposed	Actual
Paddy rice	S1	S1	S1
	S2	S1	S2b
Upland crops	S2c	N1	S2c
	S3a	N2	N2c
S3b	N1		
S3c	S2b		



DISCRETIONARY GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMEIANG-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWING
LAND SUITABILITY MAP FOR PADDY AND UPLAND CROPS OF THE PROJECT AREA
 JAPAN INTERNATIONAL COOPERATION AGENCY DWS 10
 TOKYO II-02



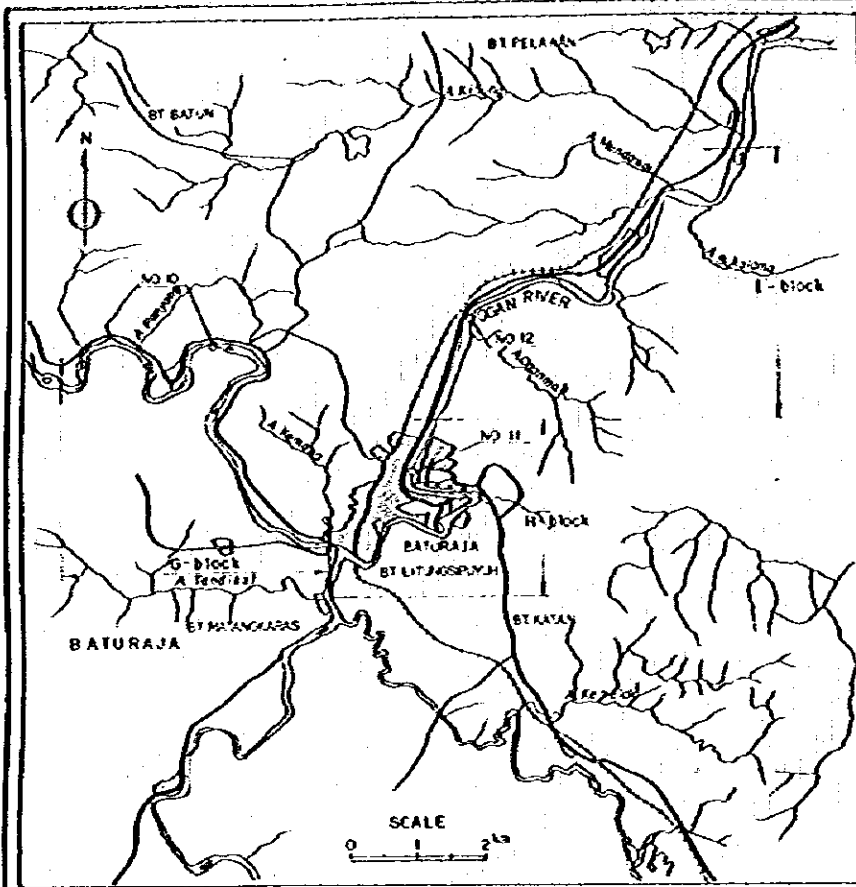
LEGEND

- Mechanical Boring
- Test Pit
- Auger Boring
- ⊗ Consolidation Test
- ▨ Borrow Pit

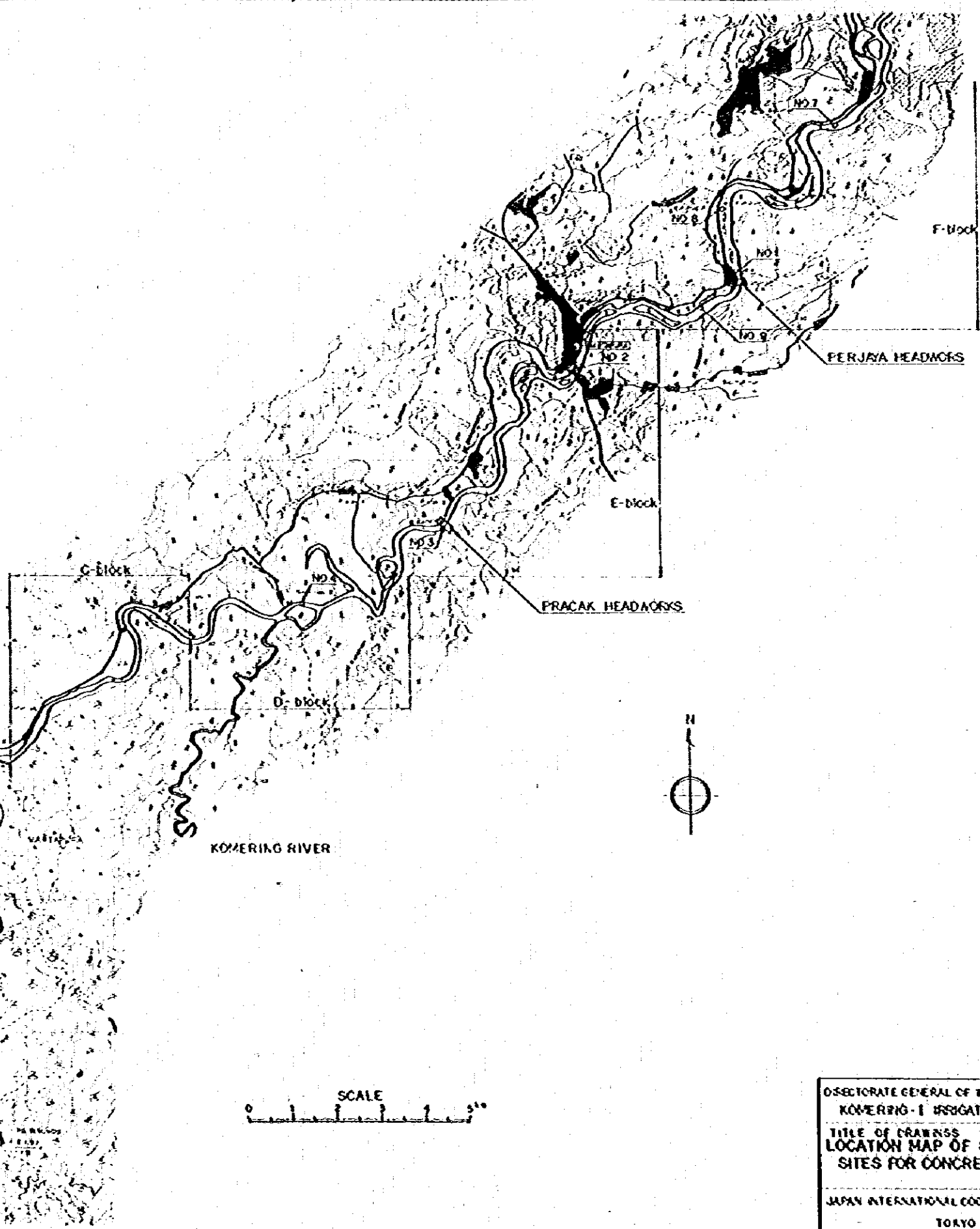
- Depth of Ground Water
- 0-3m
 - 3-6m
 - 6m or more

Notes
No. 7, No. 8 and No. 9 indicate
steeping sites for sand and gravel

DEPARTMENT GENERAL OF WATER RESOURCES DEVELOPMENT
KOMERDING-1 IRRIGATION DEVELOPMENT PROJECT
TITLE OF DRAWINGS
LOCATION MAP OF SURVEY HOLES AND
BORROWPITS AND ISO-DEPTH CONTOUR MAP
OF GROUND WATER TABLE
JAPAN INTERNATIONAL COOPERATION AGENCY OAS NO.
TOKYO IV - 04



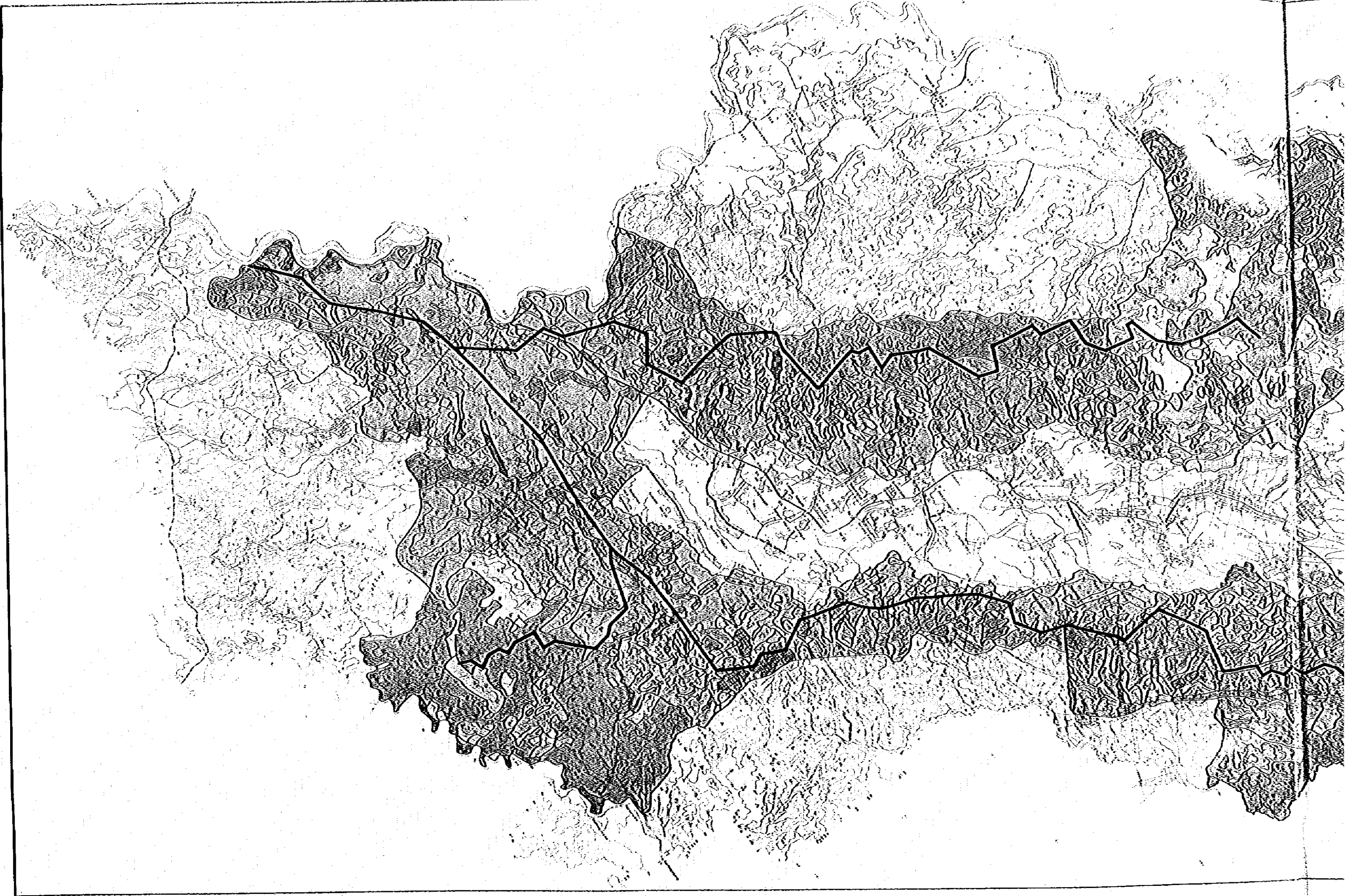
OGAN RIVER

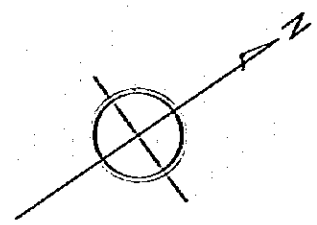
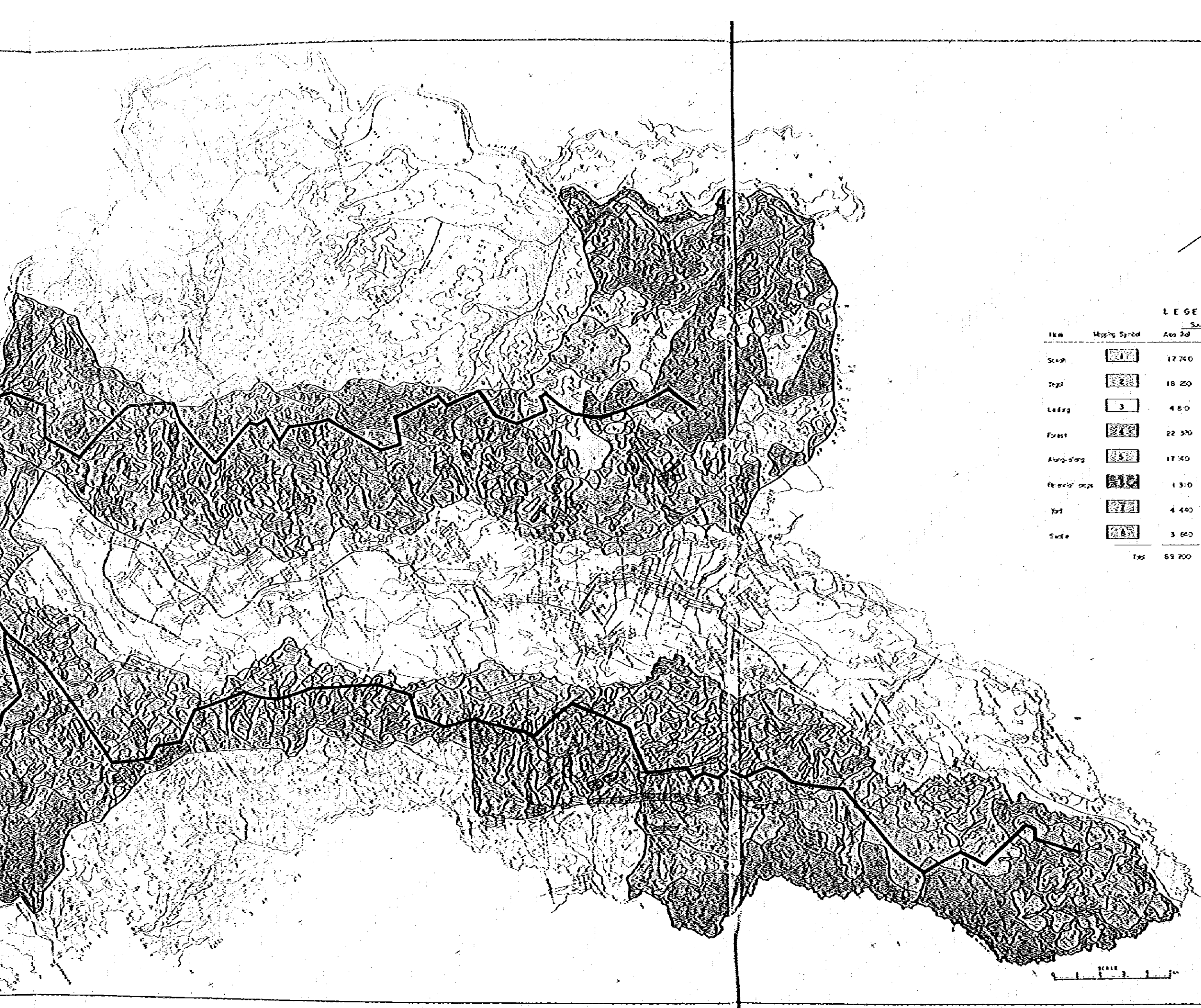


KOMERIG RIVER

DIVISION GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMERIG-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWING
**LOCATION MAP OF SAMPLING AND QUARRY
 SITES FOR CONCRETE AGGREGATES**
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TORYO

DWG. NO.
 17-02





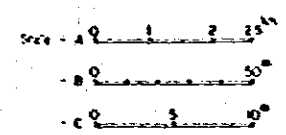
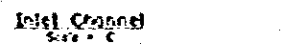
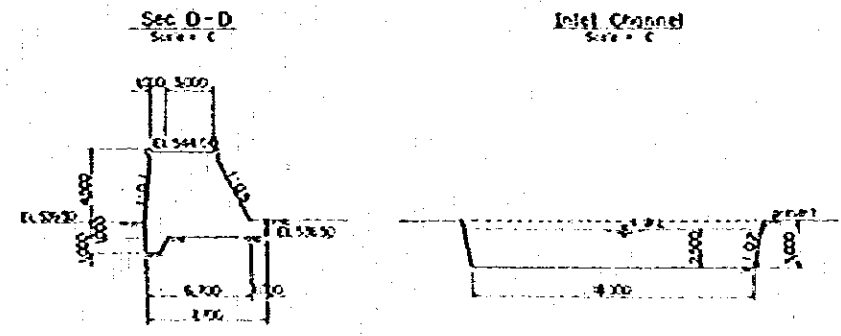
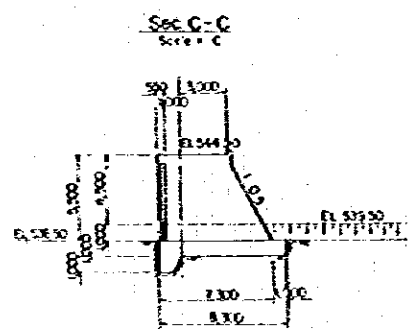
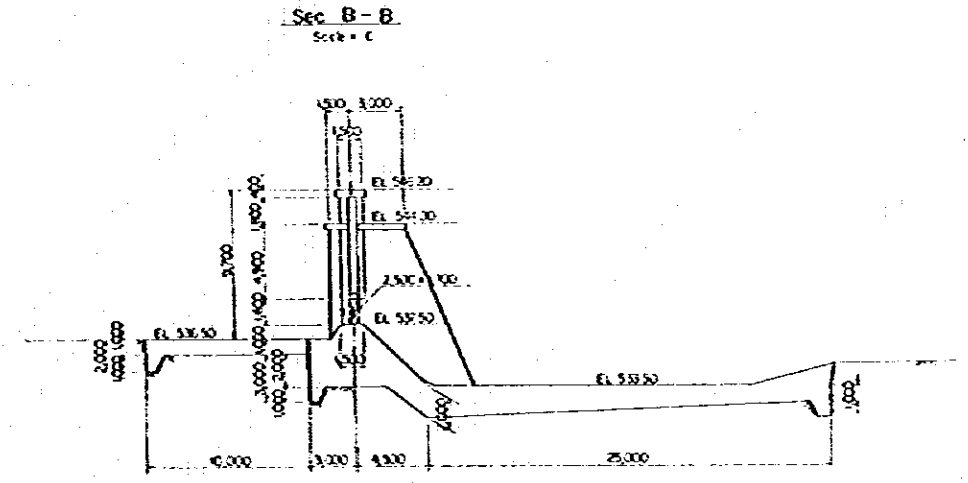
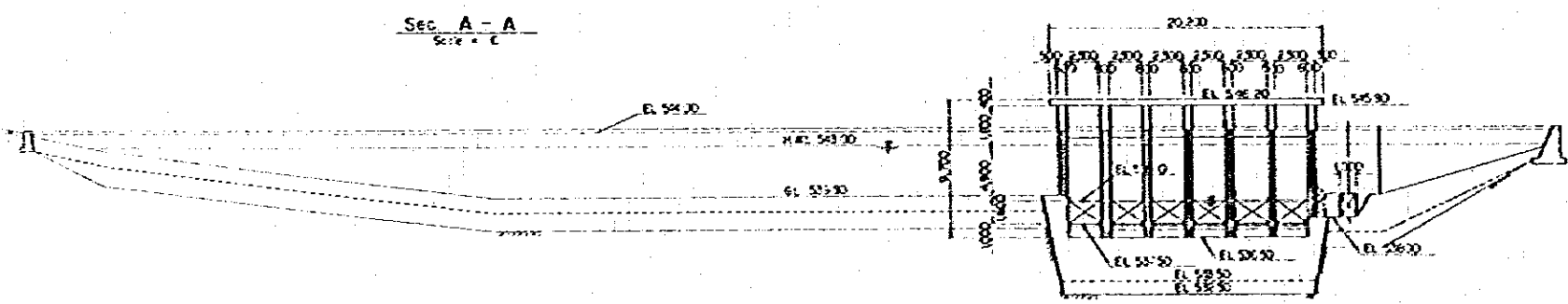
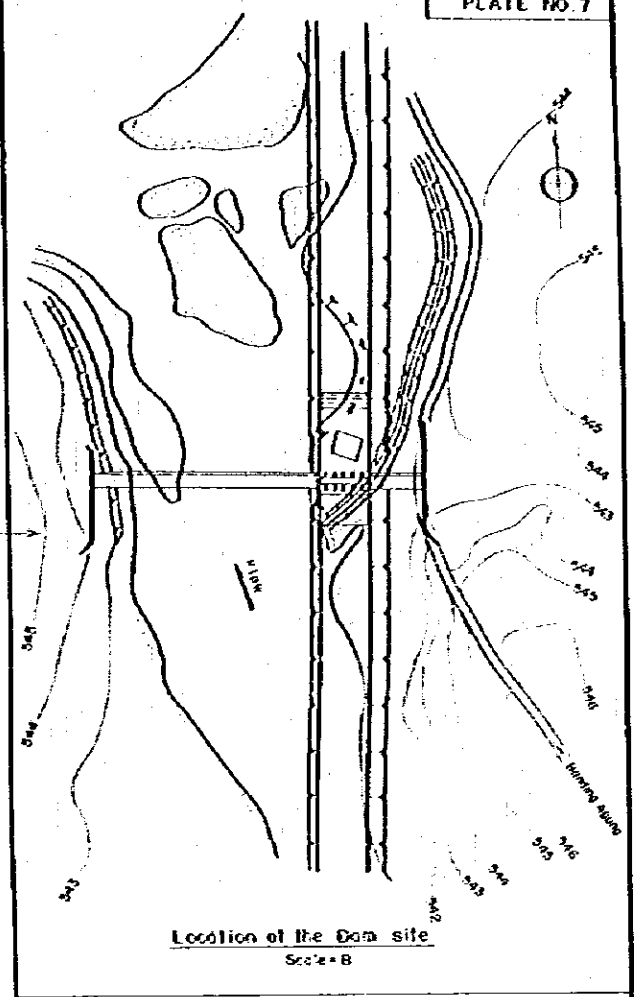
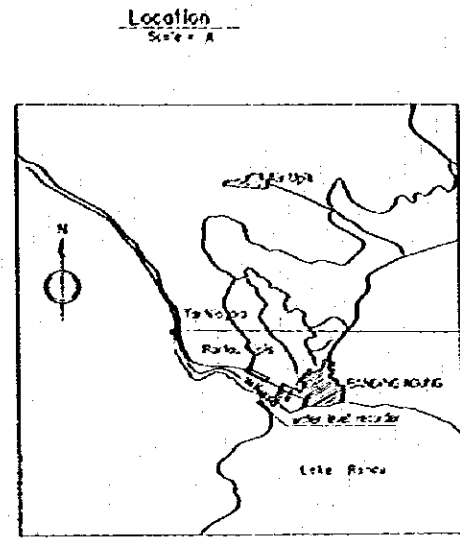
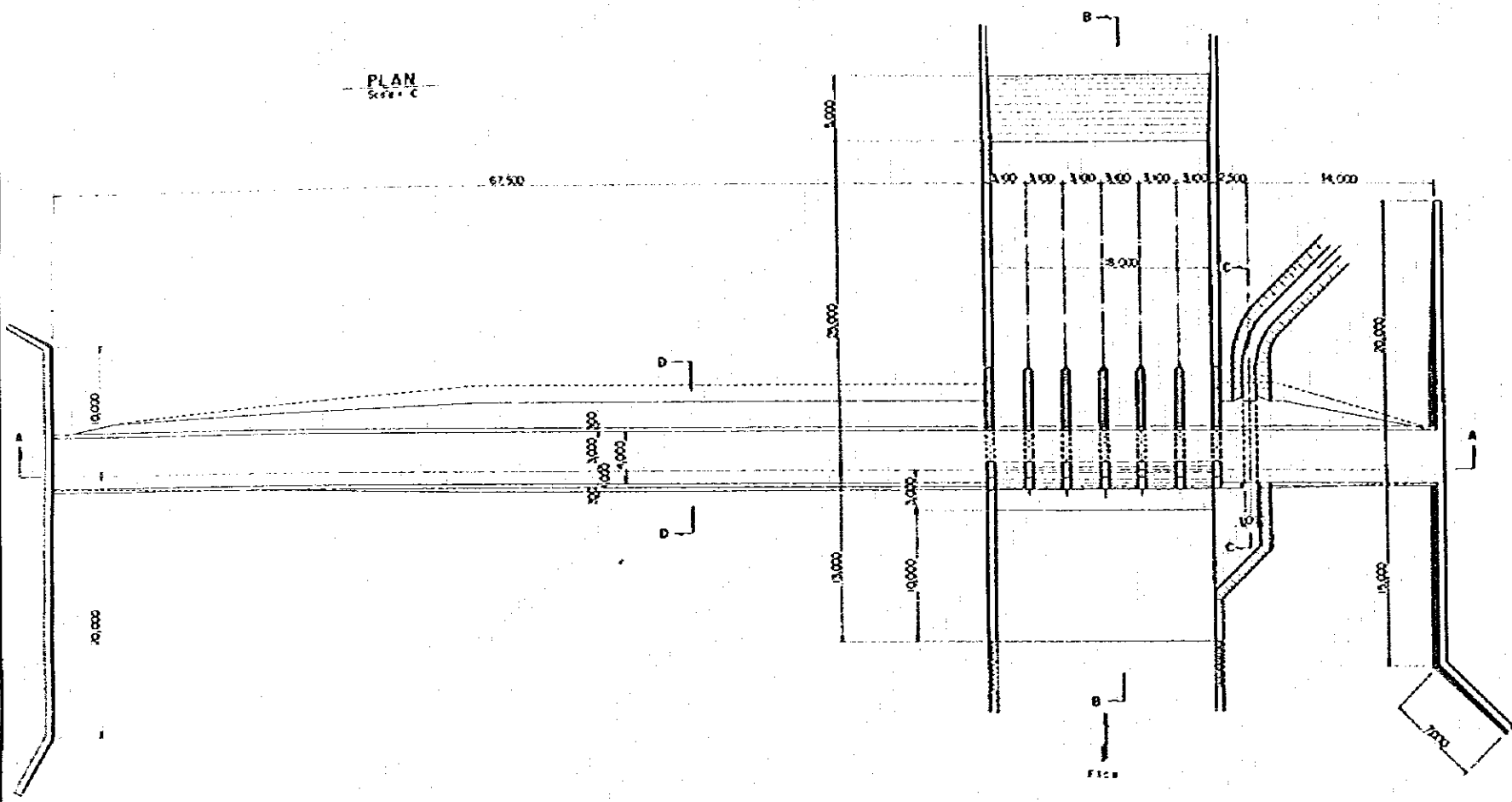
LEGEND

Item	Maping Symbol	Sug. Area		Total Project Area	
		Area (Ha)	Proportion (%)	Area (Ha)	Proportion (%)
Scrub	[Symbol 1]	17,740	20	15,300	26
Tepl	[Symbol 2]	18,250	21	10,800	18
Leifng	[Symbol 3]	4,800	5	3,150	5
Forest	[Symbol 4]	22,370	25	14,330	25
Along-dang	[Symbol 5]	17,140	19	9,140	16
Potential crops	[Symbol 6]	1,310	1	1,040	2
Yard	[Symbol 7]	4,440	5	3,200	5
Swale	[Symbol 8]	3,660	4	1,650	3
Total		89,700	100	58,900	100

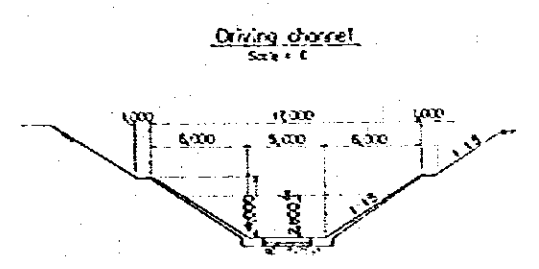
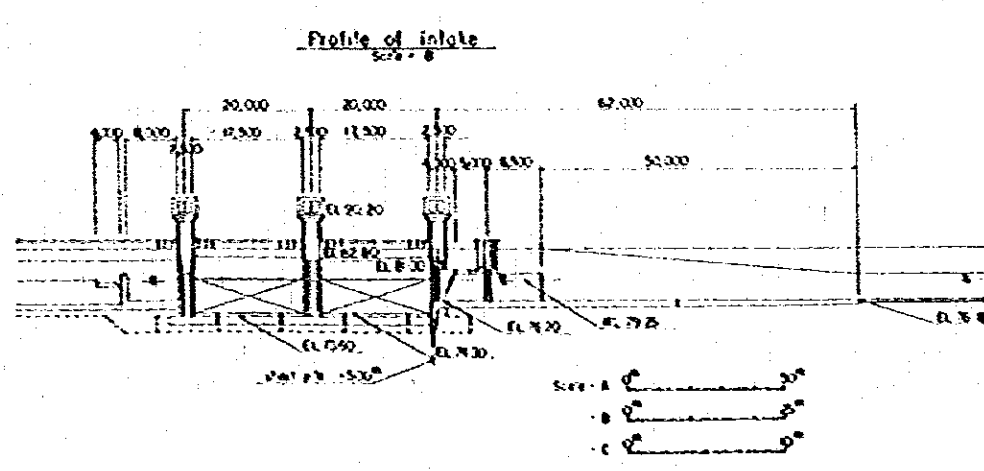
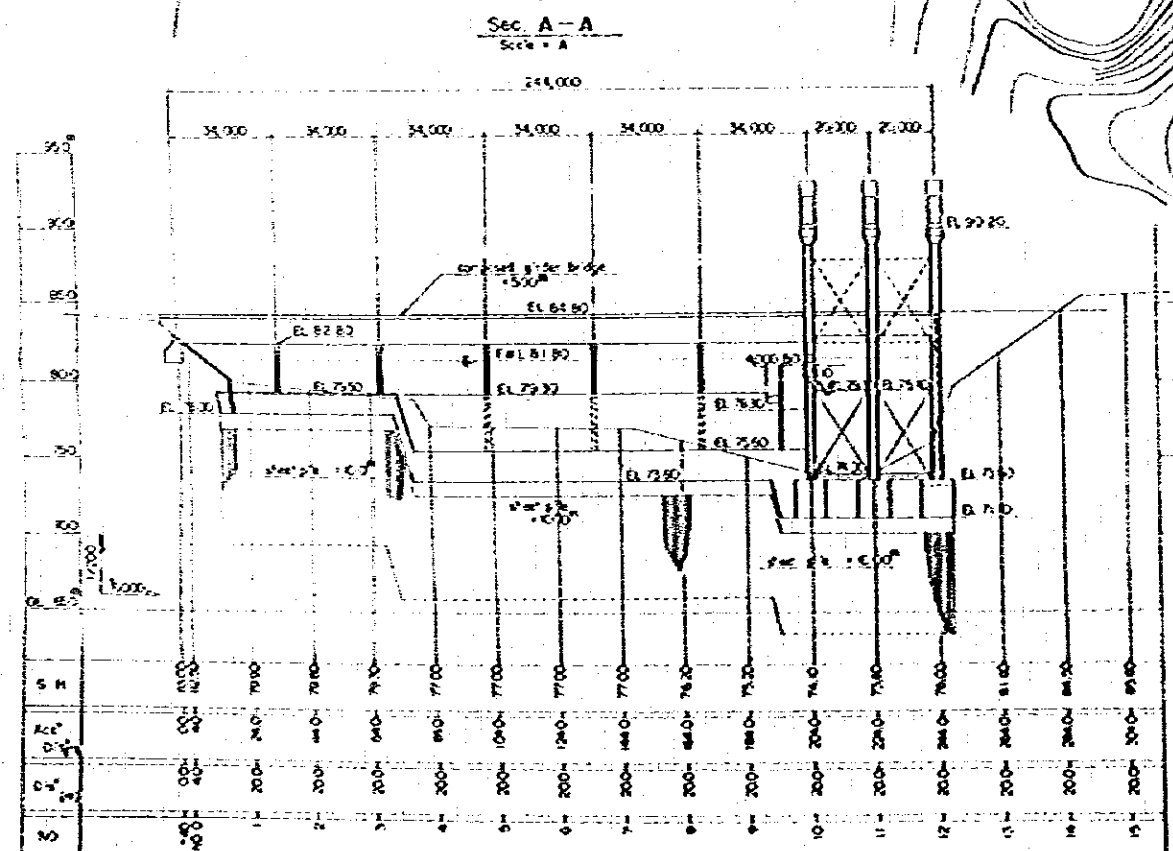
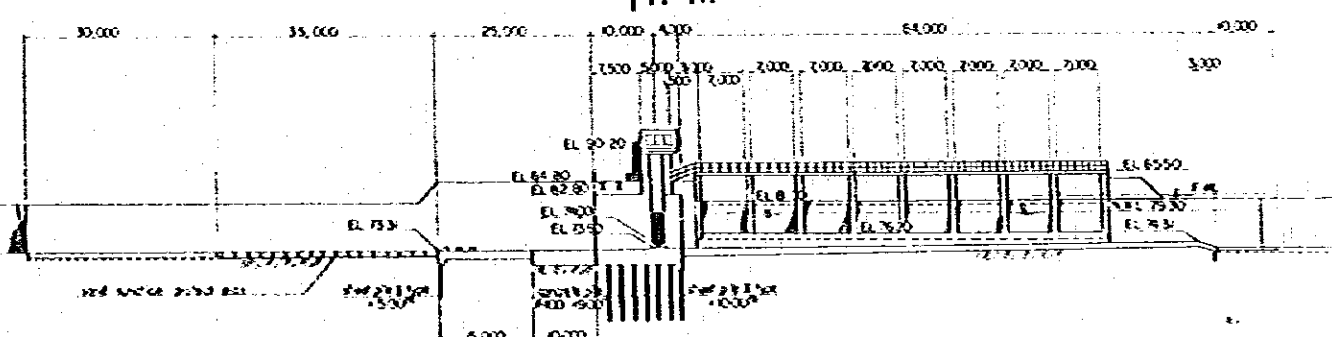
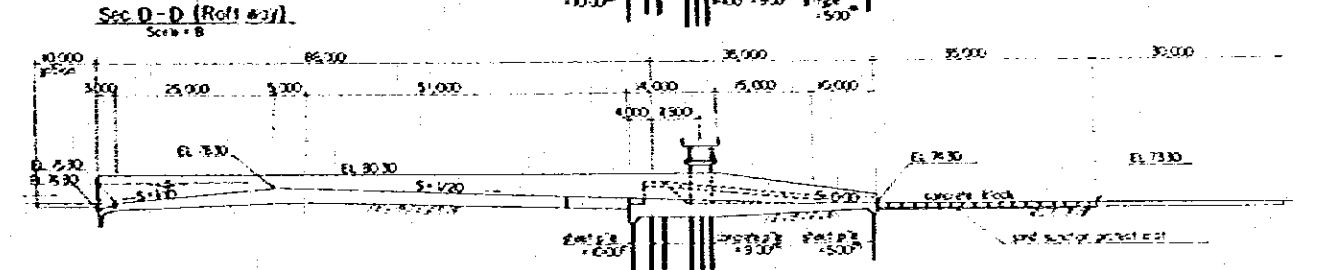
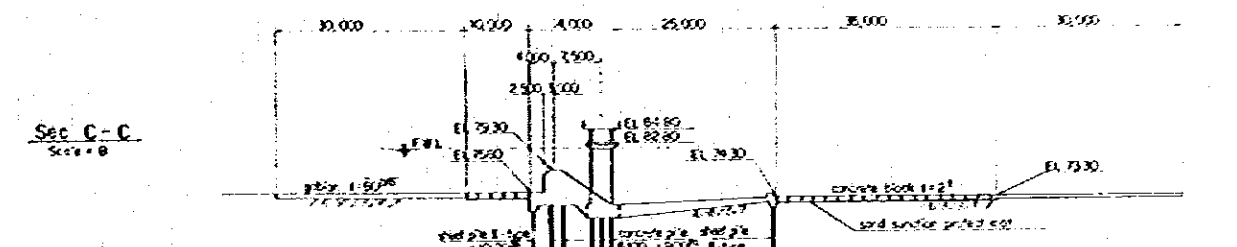
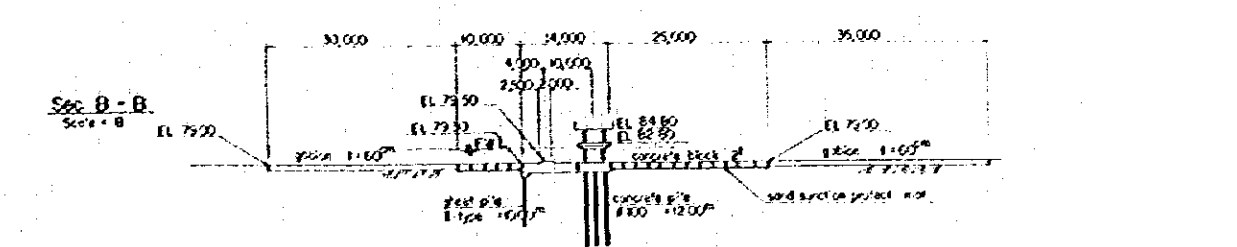
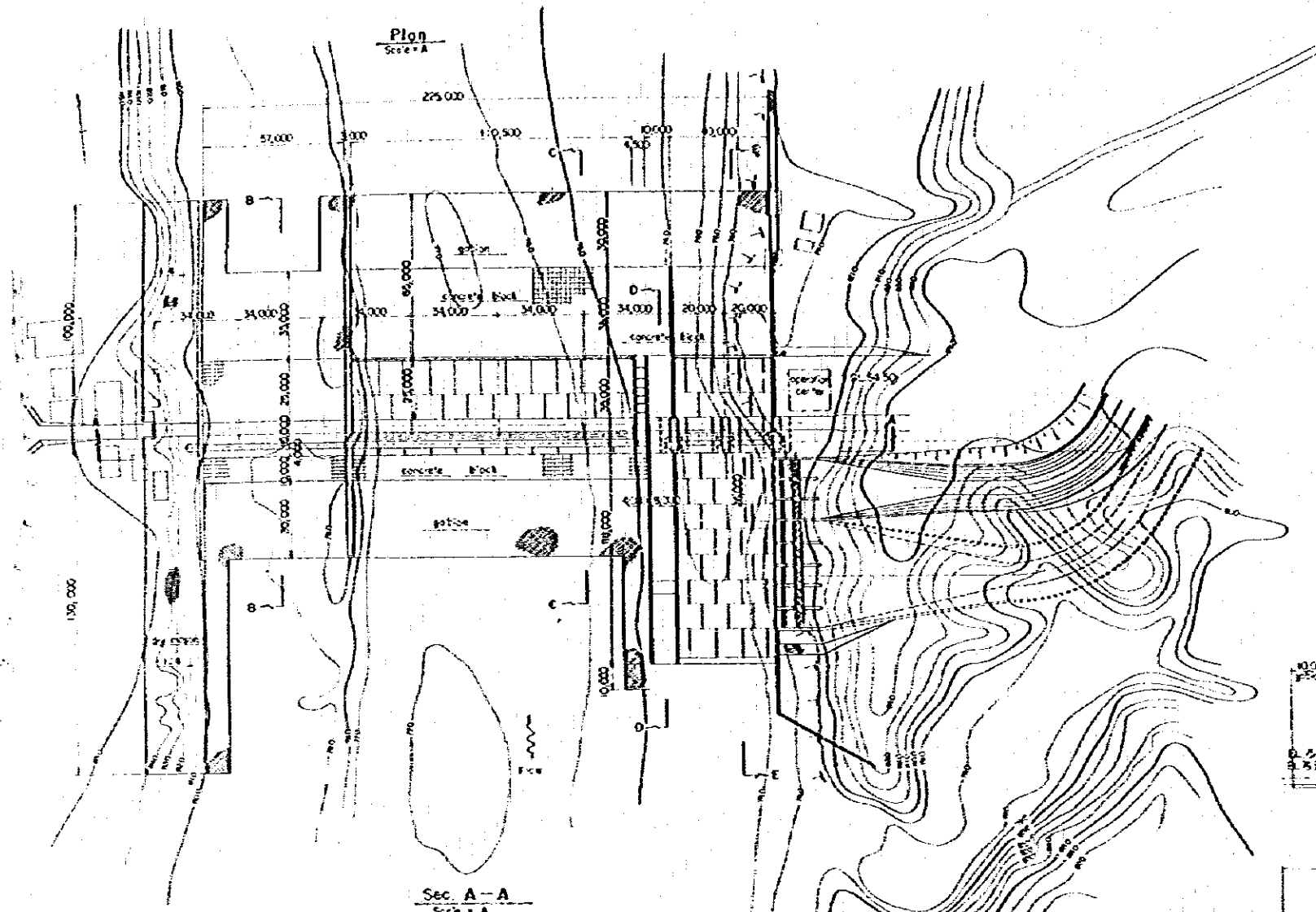


DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 NOAHUNG-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWING
**PRESENT LAND USE MAP
 OF THE PROJECT AREA**
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO

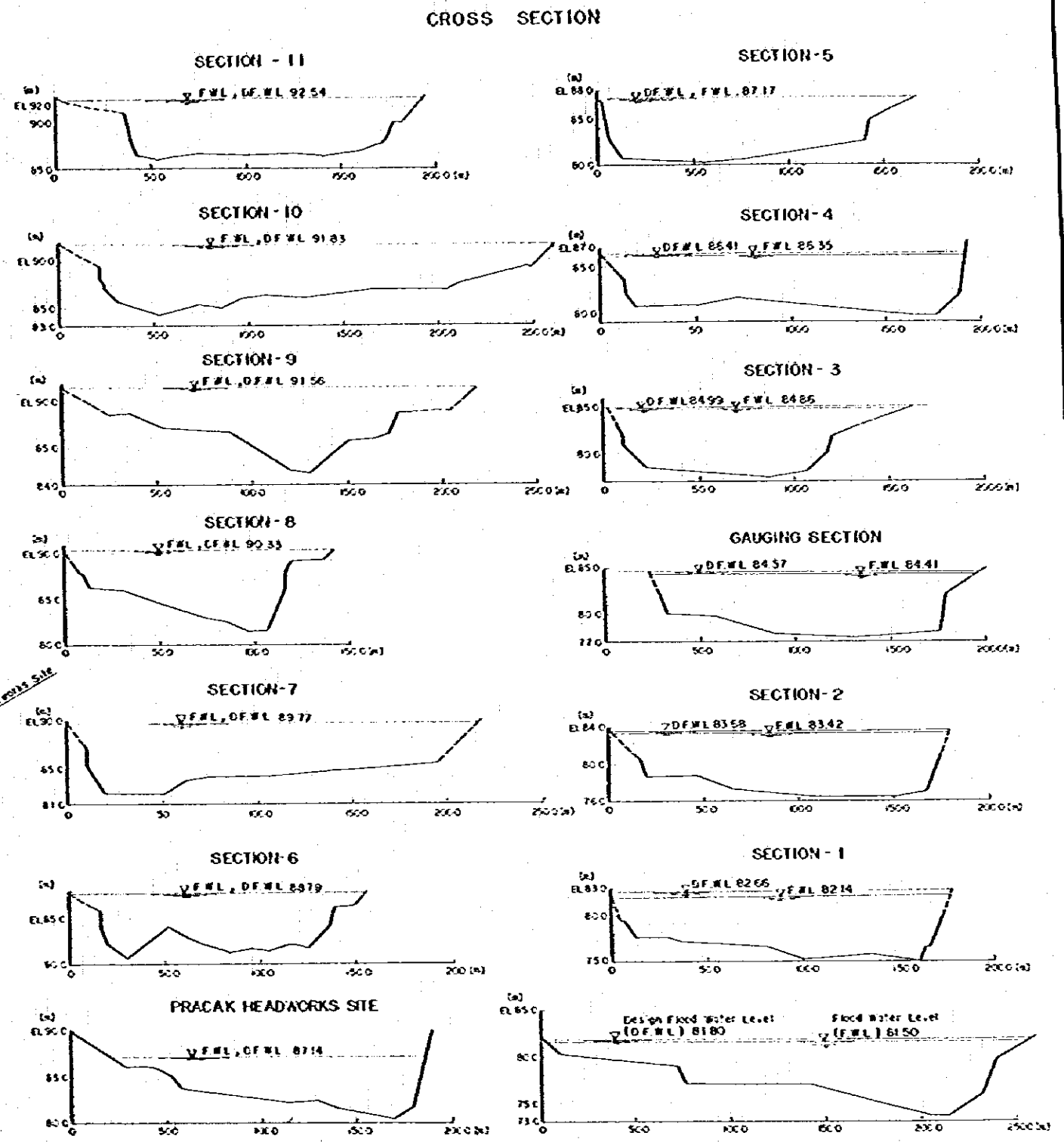
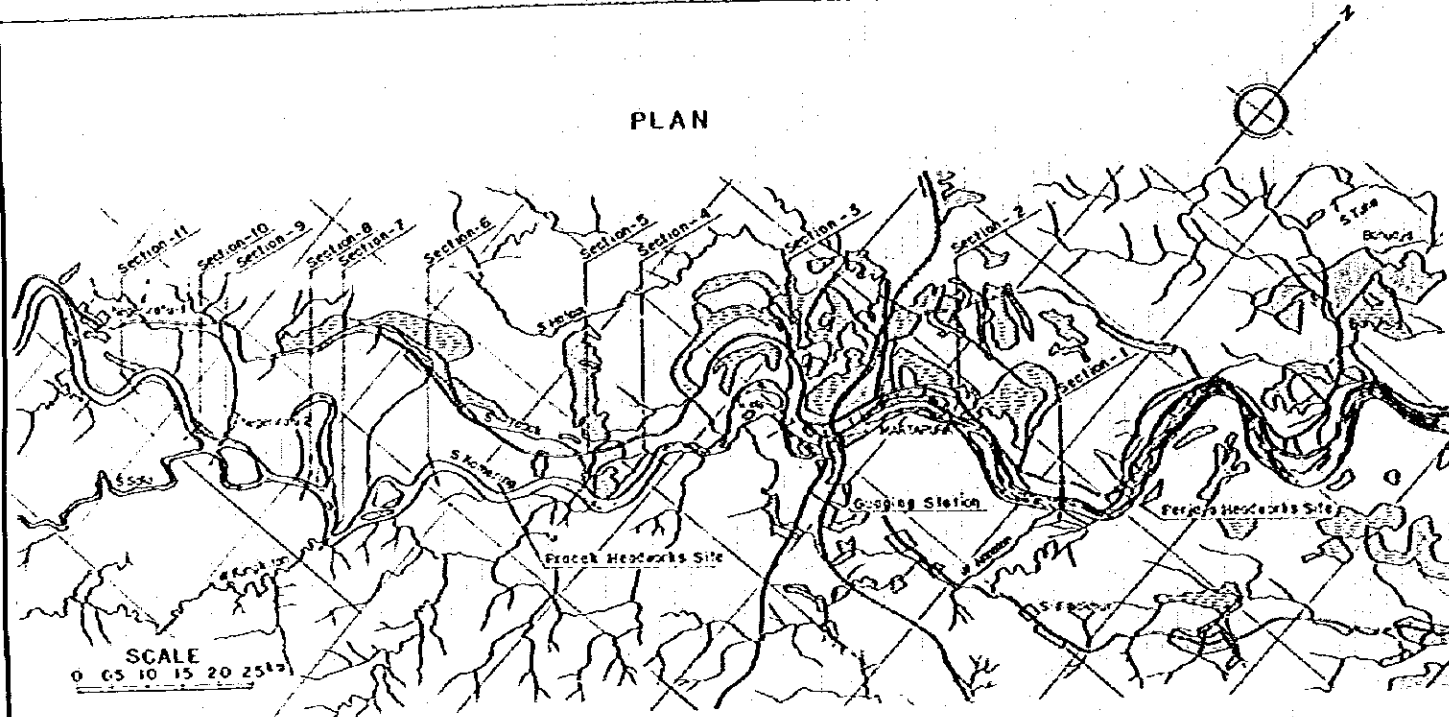
DWG NO
 V-01



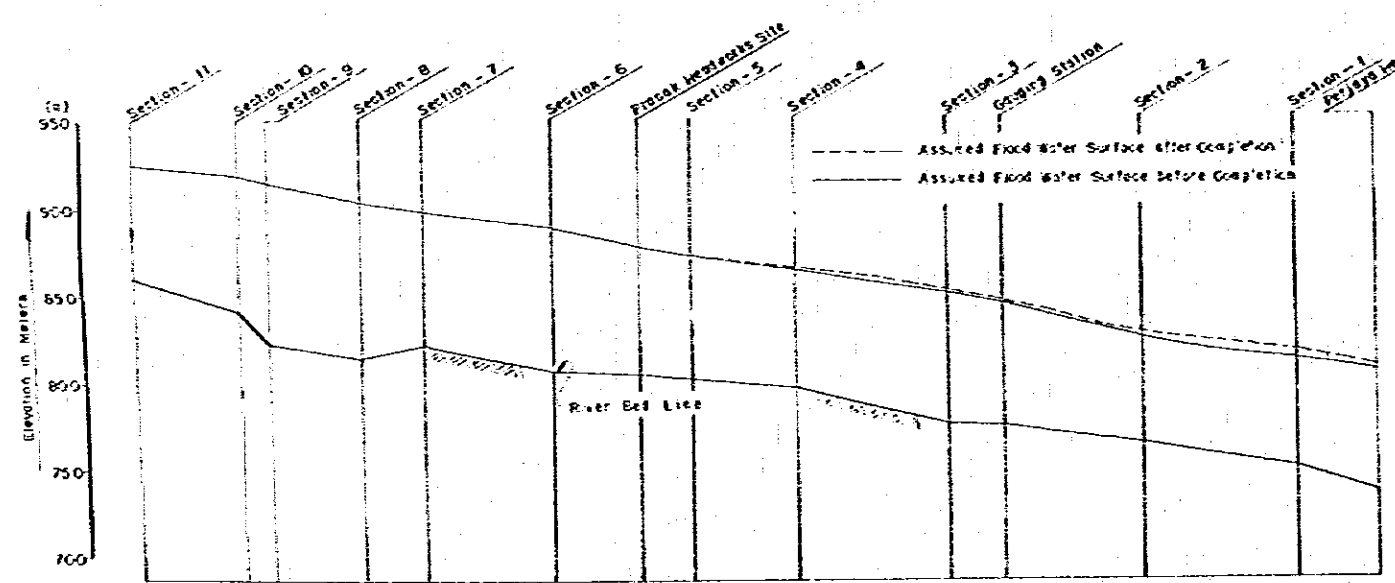
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 KOREAN-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWING
RANAU REGULATING DAM
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO
 D/GS NO
 VR - 01



DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 NOMERING-I IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWING
HEADWORKS (PERJAYA)
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO
 DRG. NO.
 VI - 02



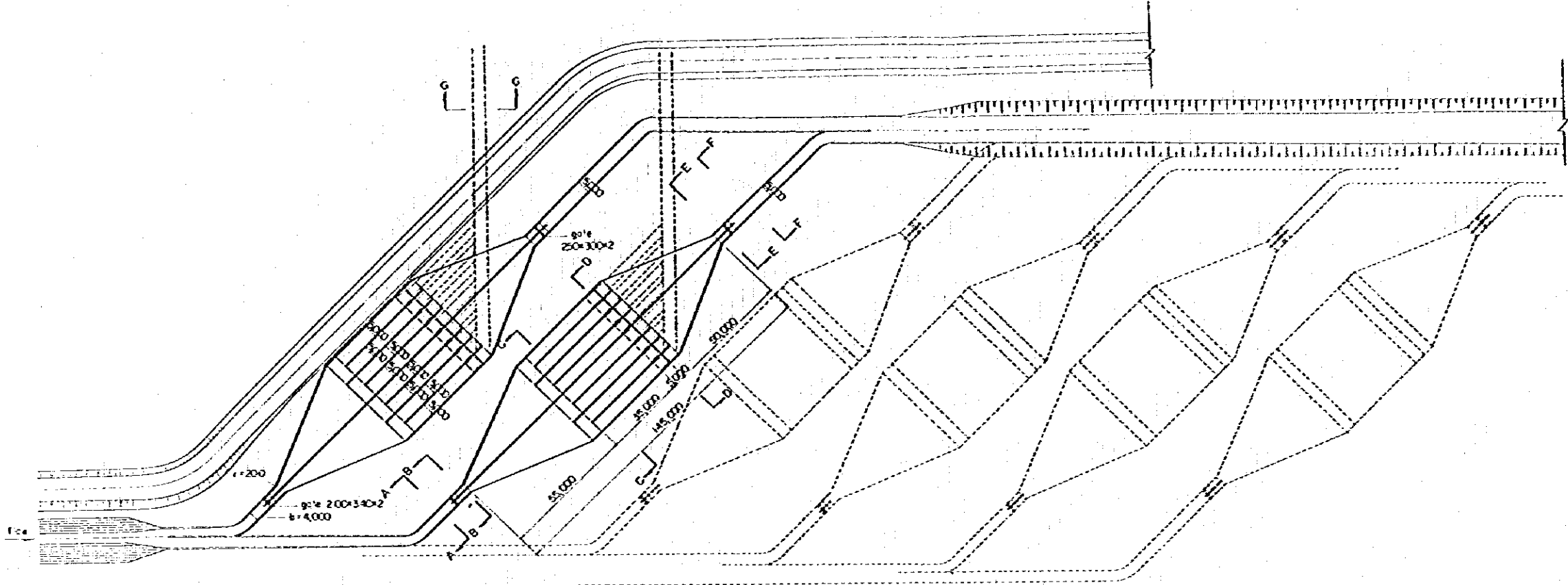
PROFILE



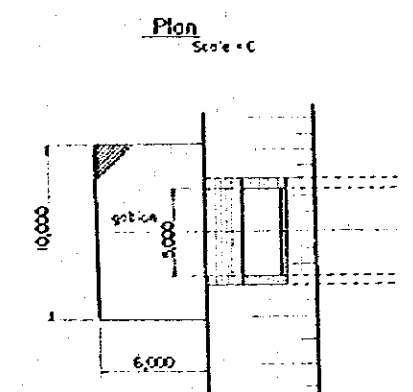
RIVER BED ELEVATION	0.0	1.45	1.90	3.25	4.15	5.90	7.10	7.60	9.25	11.35	12.10	14.0	16.15	17.25
FLOOD WATER SURFACE ELEVATION BEFORE COMPLETION	92.34	91.85	91.36	90.87	90.38	89.89	89.40	88.91	88.42	87.93	87.44	86.95	86.46	85.97
FLOOD WATER SURFACE ELEVATION AFTER COMPLETION	92.34	91.85	91.36	90.87	90.38	89.89	89.40	88.91	88.42	87.93	87.44	86.95	86.46	85.97
DISTANCE (m)	0.0	1.45	1.90	3.25	4.15	5.90	7.10	7.60	9.25	11.35	12.10	14.0	16.15	17.25
ACCUMULATE DISTANCE (m)	0.0	1.45	1.90	3.25	4.15	5.90	7.10	7.60	9.25	11.35	12.10	14.0	16.15	17.25

DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMERING-I IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWING
 PROFILE & CROSS SECTION OF KOMERING RIVER
 JAPAN INTERNATIONAL COOPERATION AGENCY | PLATE NO
 TOKYO | VI - 03

Plan
Scale = B



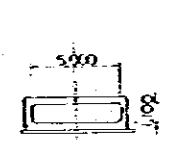
Waste Way
Plan
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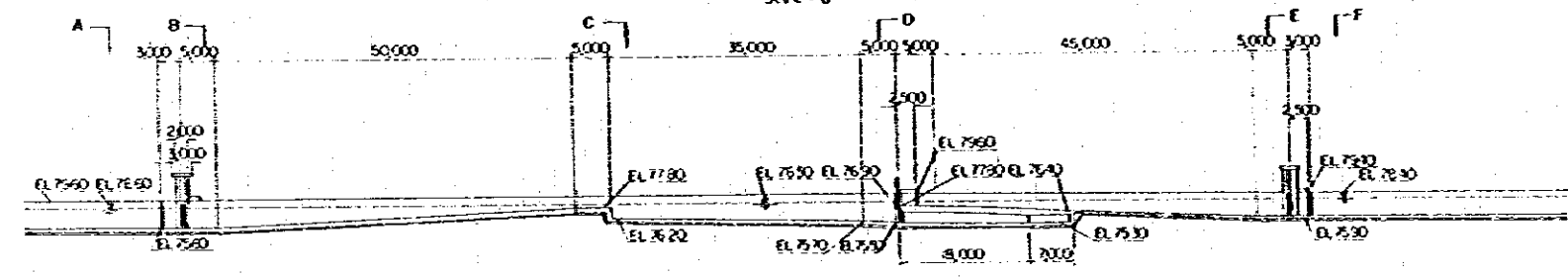
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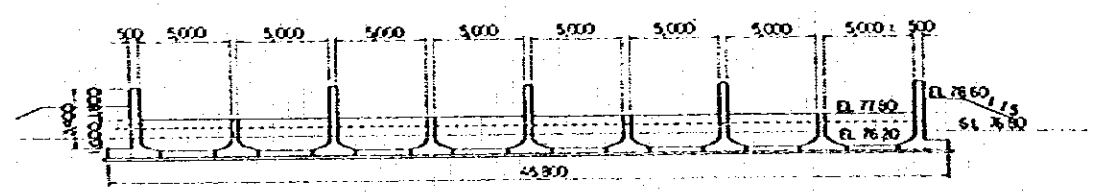
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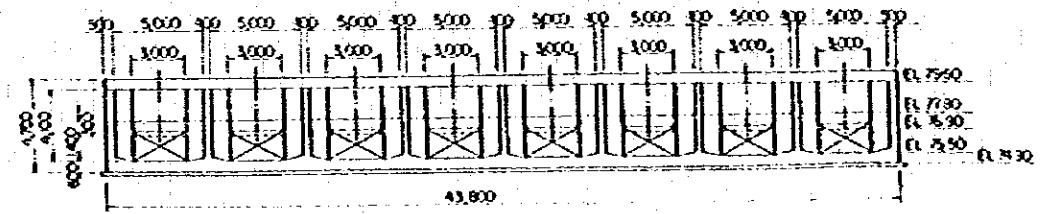
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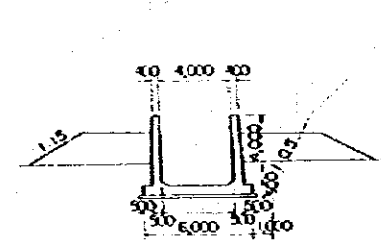
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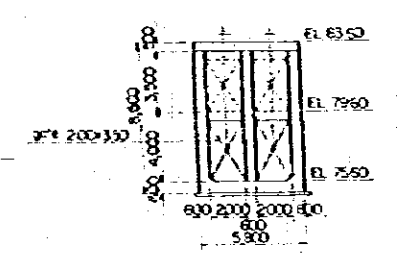
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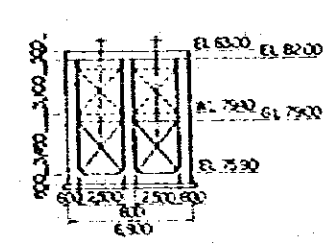
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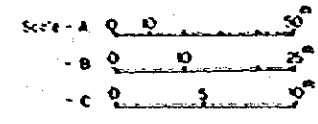
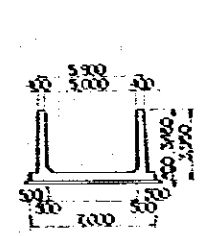
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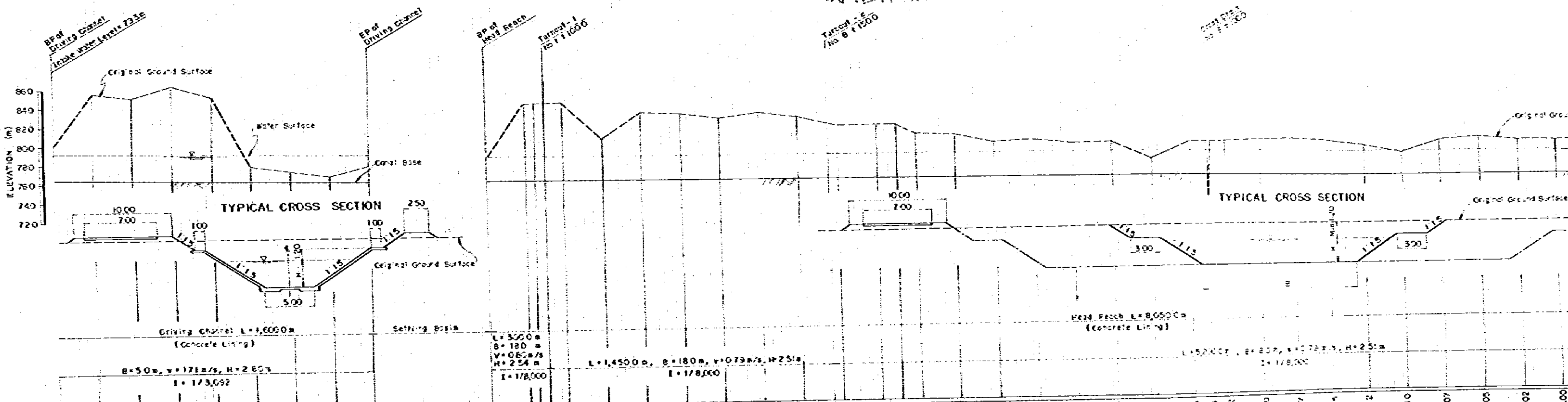
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Sec F-F
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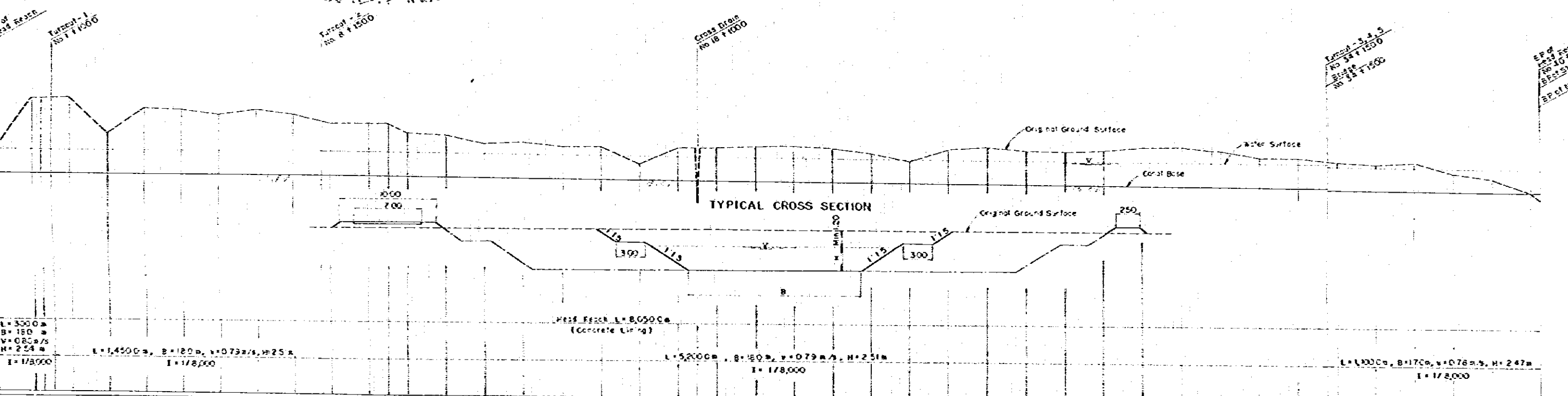
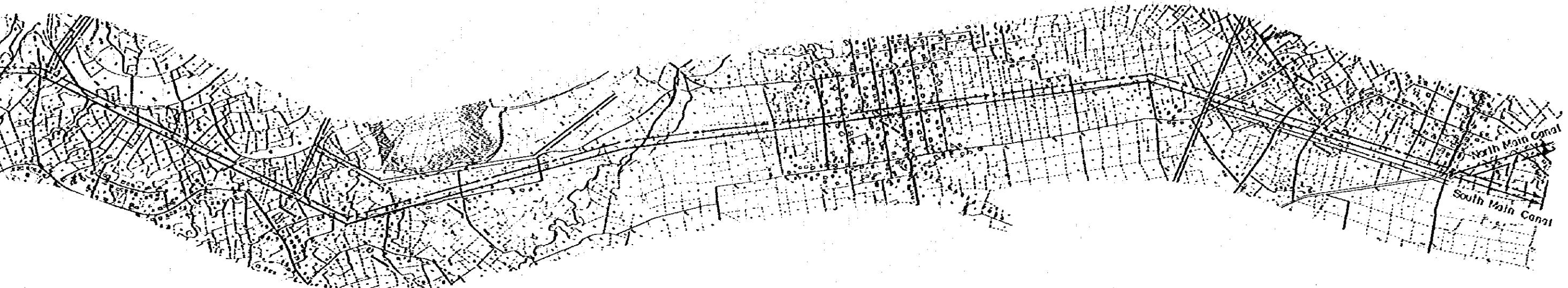


DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT	
KOMERING-I IRRIGATION DEVELOPMENT PROJECT	
TITLE OF DRAWING	
SETTLING BASIN	
JAPAN INTERNATIONAL COOPERATION AGENCY	DWG. NO.
TOKYO	VI - 04



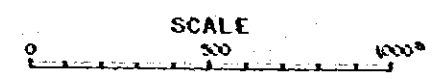
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CANAL BASE ELEVATION	7643	7637	7630	7624	7617	7611	7604	7598	7591	7584	7577	7570	7563	7556	7549	7542	7535	7528	7521	7514	7507	7500	7493	7486	7479	7472	7465	7458	7451	7444
WATER SURFACE ELEVATION	7730	7725	7717	7710	7704	7697	7690	7683	7676	7669	7662	7655	7648	7641	7634	7627	7620	7613	7606	7599	7592	7585	7578	7571	7564	7557	7550	7543	7536	7529
GROUND SURFACE ELEVATION	8000	8030	8050	8070	8090	8110	8130	8150	8170	8190	8210	8230	8250	8270	8290	8310	8330	8350	8370	8390	8410	8430	8450	8470	8490	8510	8530	8550	8570	8590
REDUCED DISTANCE	0.0	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	26000	28000	30000	32000	34000	36000	38000	40000	42000	44000	46000	48000	50000	52000	54000	56000	

- LEGEND**
- Turnout
 - Main Inspection Road
 - Main Irrigation Canal
 - Secondary Inspection Road
 - Secondary Irrigation Canal
 - Peljeja Intake
 - SMC : South Main Canal
 - NMC : North Main Canal



No. 1	2000	81.90	76.29	75.75
No. 2	3000	83.85	76.28	75.74
No. 3	4000	85.80	76.27	75.73
No. 4	5000	87.75	76.26	75.72
No. 5	6000	89.70	76.25	75.71
No. 6	7000	91.65	76.24	75.70
No. 7	8000	93.60	76.23	75.69
No. 8	9000	95.55	76.22	75.68
No. 9	10000	97.50	76.21	75.67
No. 10	11000	99.45	76.20	75.66
No. 11	12000	101.40	76.19	75.65
No. 12	13000	103.35	76.18	75.64
No. 13	14000	105.30	76.17	75.63
No. 14	15000	107.25	76.16	75.62
No. 15	16000	109.20	76.15	75.61
No. 16	17000	111.15	76.14	75.60
No. 17	18000	113.10	76.13	75.59
No. 18	19000	115.05	76.12	75.58
No. 19	20000	117.00	76.11	75.57
No. 20	21000	118.95	76.10	75.56
No. 21	22000	120.90	76.09	75.55
No. 22	23000	122.85	76.08	75.54
No. 23	24000	124.80	76.07	75.53
No. 24	25000	126.75	76.06	75.52
No. 25	26000	128.70	76.05	75.51
No. 26	27000	130.65	76.04	75.50
No. 27	28000	132.60	76.03	75.49
No. 28	29000	134.55	76.02	75.48
No. 29	30000	136.50	76.01	75.47
No. 30	31000	138.45	76.00	75.46
No. 31	32000	140.40	75.99	75.45
No. 32	33000	142.35	75.98	75.44
No. 33	34000	144.30	75.97	75.43
No. 34	35000	146.25	75.96	75.42
No. 35	36000	148.20	75.95	75.41
No. 36	37000	150.15	75.94	75.40
No. 37	38000	152.10	75.93	75.39
No. 38	39000	154.05	75.92	75.38
No. 39	40000	156.00	75.91	75.37
No. 40	41000	157.95	75.90	75.36
No. 41	42000	159.90	75.89	75.35
No. 42	43000	161.85	75.88	75.34
No. 43	44000	163.80	75.87	75.33
No. 44	45000	165.75	75.86	75.32
No. 45	46000	167.70	75.85	75.31
No. 46	47000	169.65	75.84	75.30
No. 47	48000	171.60	75.83	75.29
No. 48	49000	173.55	75.82	75.28
No. 49	50000	175.50	75.81	75.27
No. 50	51000	177.45	75.80	75.26
No. 51	52000	179.40	75.79	75.25
No. 52	53000	181.35	75.78	75.24
No. 53	54000	183.30	75.77	75.23
No. 54	55000	185.25	75.76	75.22
No. 55	56000	187.20	75.75	75.21
No. 56	57000	189.15	75.74	75.20
No. 57	58000	191.10	75.73	75.19
No. 58	59000	193.05	75.72	75.18
No. 59	60000	195.00	75.71	75.17
No. 60	61000	196.95	75.70	75.16
No. 61	62000	198.90	75.69	75.15
No. 62	63000	200.85	75.68	75.14
No. 63	64000	202.80	75.67	75.13
No. 64	65000	204.75	75.66	75.12
No. 65	66000	206.70	75.65	75.11
No. 66	67000	208.65	75.64	75.10
No. 67	68000	210.60	75.63	75.09
No. 68	69000	212.55	75.62	75.08
No. 69	70000	214.50	75.61	75.07
No. 70	71000	216.45	75.60	75.06
No. 71	72000	218.40	75.59	75.05
No. 72	73000	220.35	75.58	75.04
No. 73	74000	222.30	75.57	75.03
No. 74	75000	224.25	75.56	75.02
No. 75	76000	226.20	75.55	75.01
No. 76	77000	228.15	75.54	75.00
No. 77	78000	230.10	75.53	74.99
No. 78	79000	232.05	75.52	74.98
No. 79	80000	234.00	75.51	74.97
No. 80	81000	235.95	75.50	74.96
No. 81	82000	237.90	75.49	74.95
No. 82	83000	239.85	75.48	74.94
No. 83	84000	241.80	75.47	74.93
No. 84	85000	243.75	75.46	74.92
No. 85	86000	245.70	75.45	74.91
No. 86	87000	247.65	75.44	74.90
No. 87	88000	249.60	75.43	74.89
No. 88	89000	251.55	75.42	74.88
No. 89	90000	253.50	75.41	74.87
No. 90	91000	255.45	75.40	74.86
No. 91	92000	257.40	75.39	74.85
No. 92	93000	259.35	75.38	74.84
No. 93	94000	261.30	75.37	74.83
No. 94	95000	263.25	75.36	74.82
No. 95	96000	265.20	75.35	74.81
No. 96	97000	267.15	75.34	74.80
No. 97	98000	269.10	75.33	74.79
No. 98	99000	271.05	75.32	74.78
No. 99	100000	273.00	75.31	74.77

- LEGEND**
- B : Turrot
 - : Main Inspection Road
 - : Main Irrigation Canal
 - : Secondary Inspection Road
 - : Secondary Irrigation Canal
 - ▽ : Project Intake
 - S.M.C. : South Main Canal
 - N.M.C. : North Main Canal



DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 KOMENGO-1 IRRIGATION DEVELOPMENT PROJECT
 TITLE OF DRAWINGS
HEADREACH PROFILE
 JAPAN INTERNATIONAL COOPERATION AGENCY DAG. NO.
 TOKYO VI - 05