

LAO PEOPLE'S
DEMOCRATIC REPUBLIC
MASTER PLAN
AND
FEASIBILITY STUDY
ON

THE INTEGRATED AGRICULTURAL
RURAL DEVELOPMENT PROJECT

IN
SAVANNAKHET PROVINCE

DRAWINGS

JUNE 1992

JAPAN INTERNATIONAL COOPERATION AGENCY

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国際協力事業団

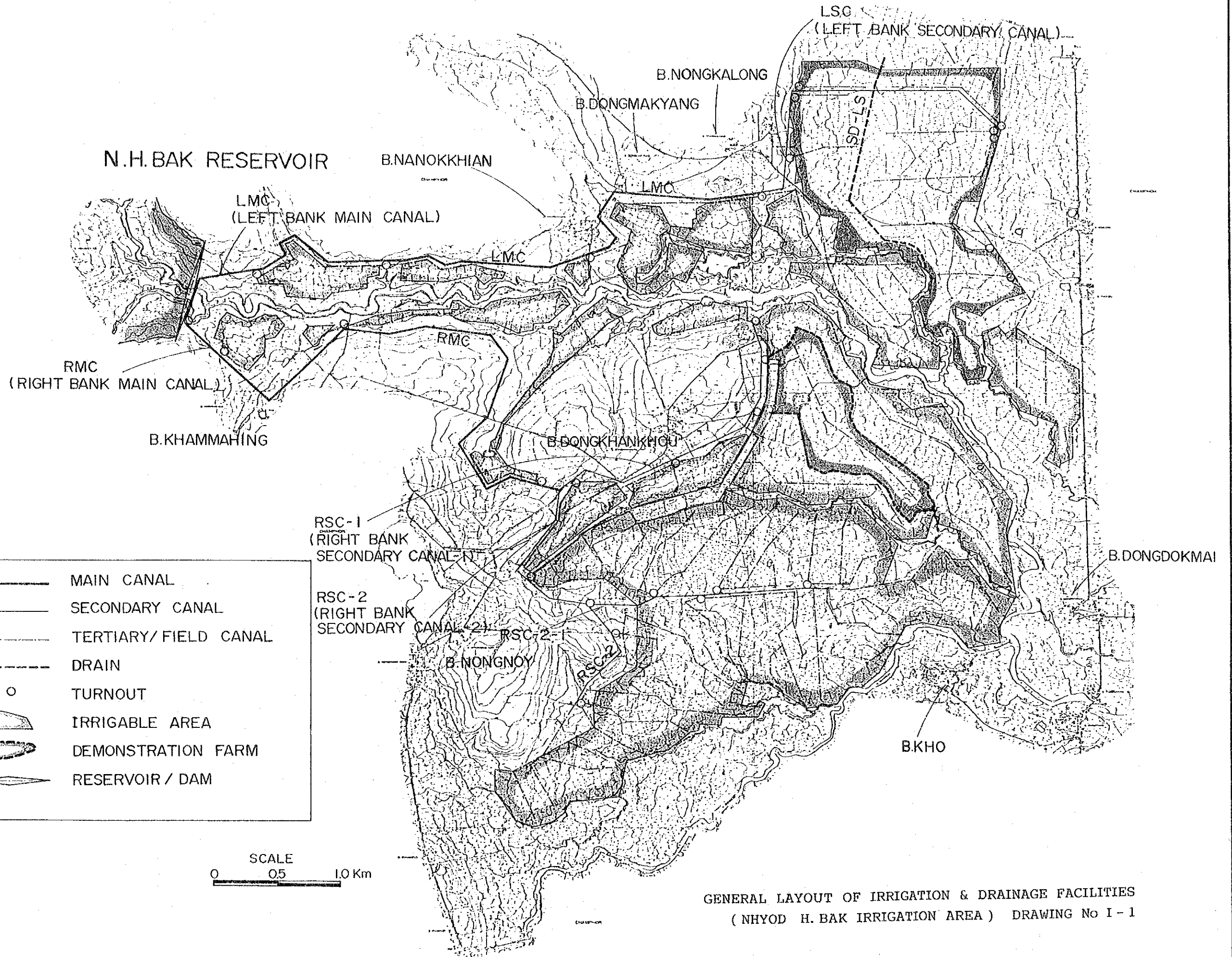
23994

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R-23	Bridge Improvement (Route-C, 1+287.3, 4+958)
R-24	Bridge Improvement (Route-B, 9+285.28)
C-1	Agricultural Supporting Center
C-2	Rural Water Supply



N.H. BAK RESERVOIR

B. NANOKKHIAN

B. NONGKALONG

B. DONGMAKYANG

LSC
(LEFT BANK SECONDARY CANAL)

LMC
(LEFT BANK MAIN CANAL)

LMC

LMC

RMC
(RIGHT BANK MAIN CANAL)

RMC

B. KHAMMAHING

B. DONGKHANHGU

RSC-1
(RIGHT BANK SECONDARY CANAL-1)

RSC-2
(RIGHT BANK SECONDARY CANAL-2)

B. NONGNOY

RSC-2

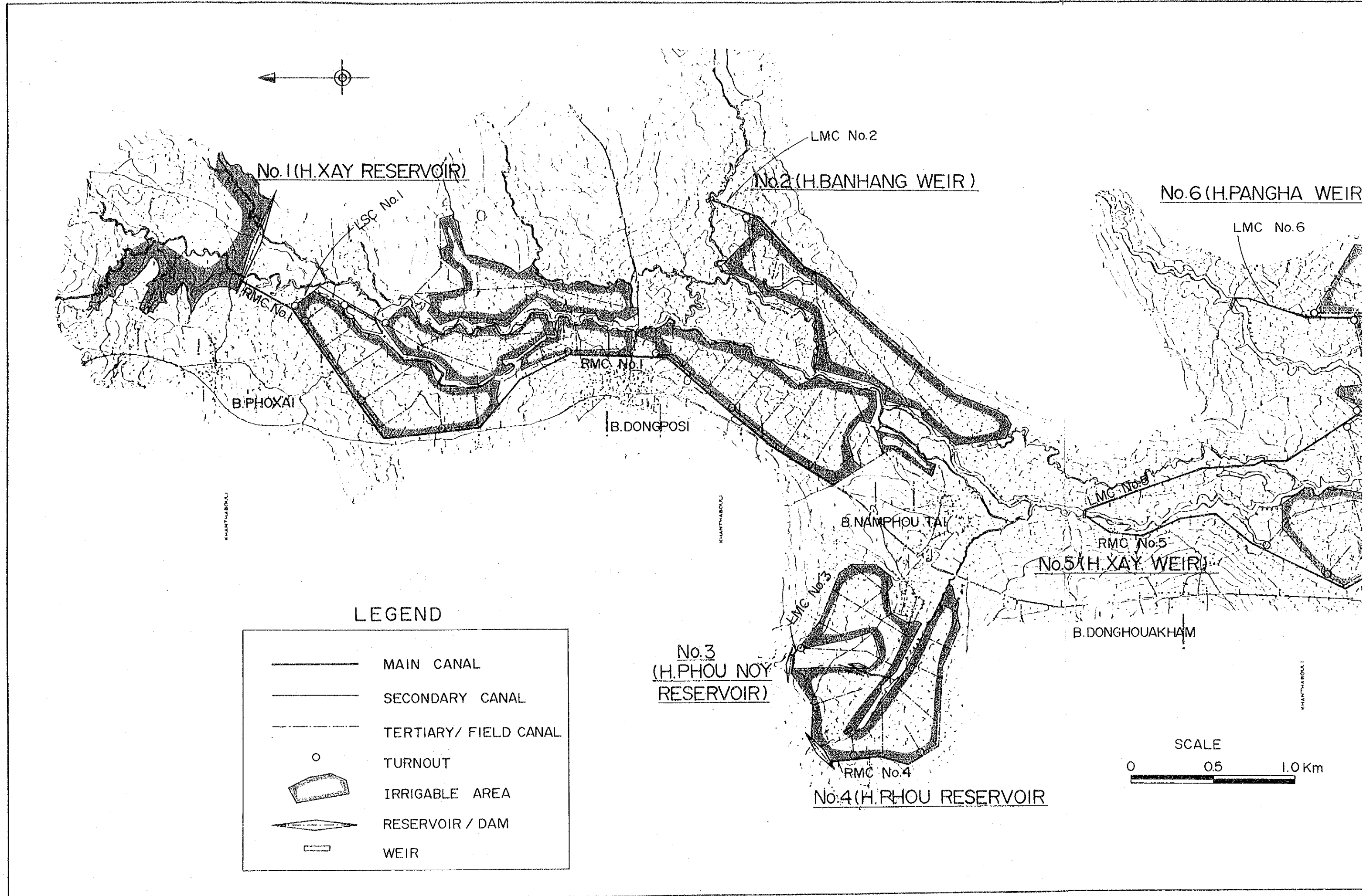
B. DONGDOKMAI

B. KHO

- MAIN CANAL
- SECONDARY CANAL
- TERTIARY/FIELD CANAL
- - - - DRAIN
- TURNOUT
- ▭ IRRIGABLE AREA
- ▭ DEMONSTRATION FARM
- ▭ RESERVOIR / DAM

SCALE
0 0.5 1.0 Km

GENERAL LAYOUT OF IRRIGATION & DRAINAGE FACILITIES
(NHYOD H. BAK IRRIGATION AREA) DRAWING No I-1



No. 1 (H. XAY RESERVOIR)

LMC No. 2
No. 2 (H. BANHANG WEIR)

No. 6 (H. PANGHA WEIR)

B. PHOXAI

B. DONGPOSI

B. NAMPHOU TAI

No. 5 (H. XAY WEIR)

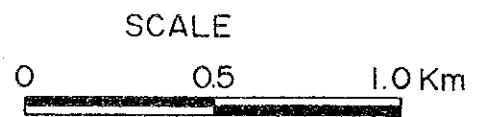
B. DONGHOUAKHAM

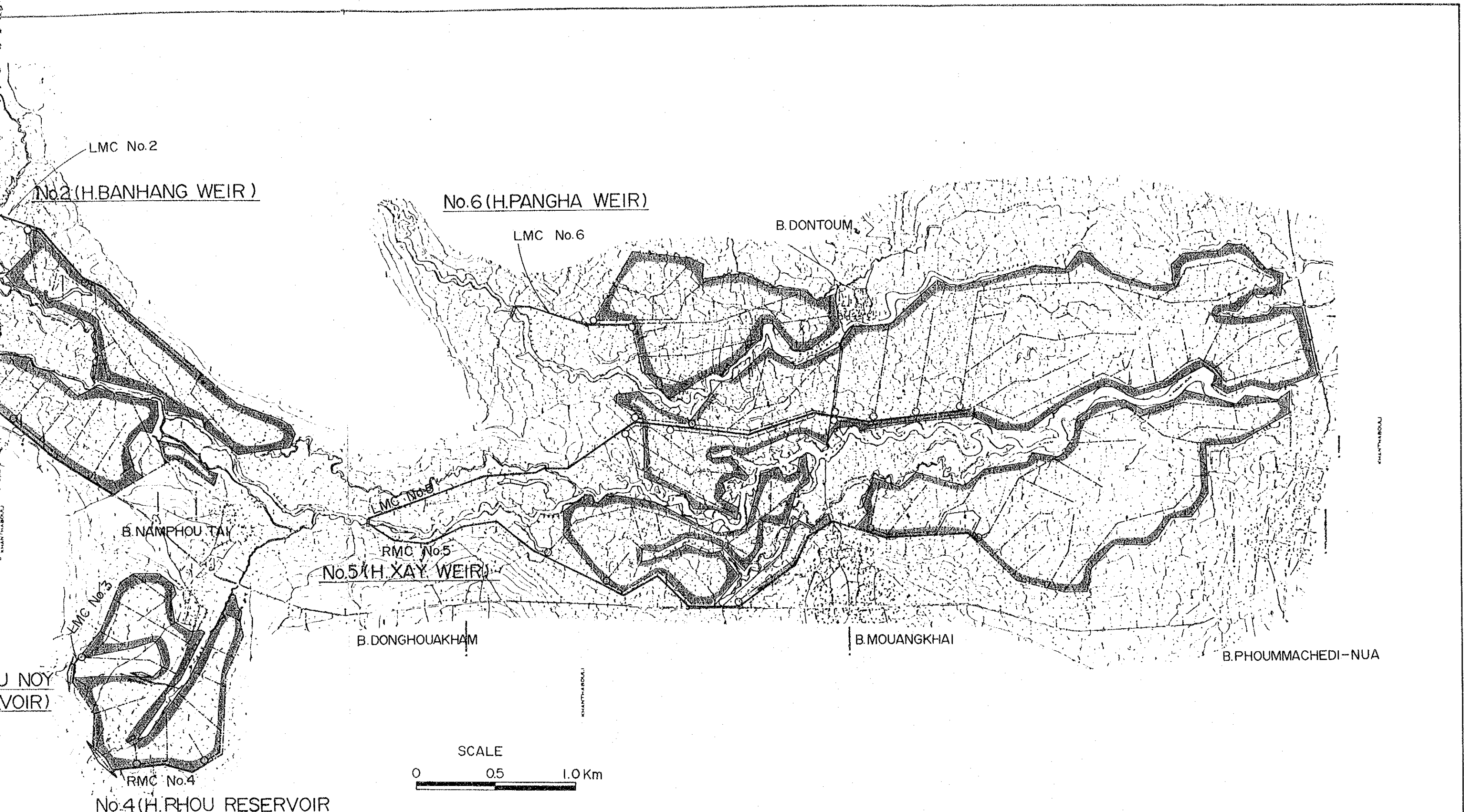
No. 3 (H. PHOU NOY RESERVOIR)

No. 4 (H. PHOU RESERVOIR)

LEGEND

	MAIN CANAL
	SECONDARY CANAL
	TERTIARY/ FIELD CANAL
	TURNOUT
	IRRIGABLE AREA
	RESERVOIR / DAM
	WEIR





LMC No.2
No.2 (H. BANHANG WEIR)

No.6 (H. PANGHA WEIR)

LMC No.6

B. DONTUOM

LMC No.5

B. NAMPHOU TAI

RMC No.5

No.5 (H. XAY WEIR)

B. DONGHOUAKHAM

B. MOUANGKHAI

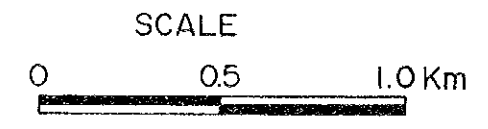
B. PHOUMMACHEDI-NUA

LMC No.3

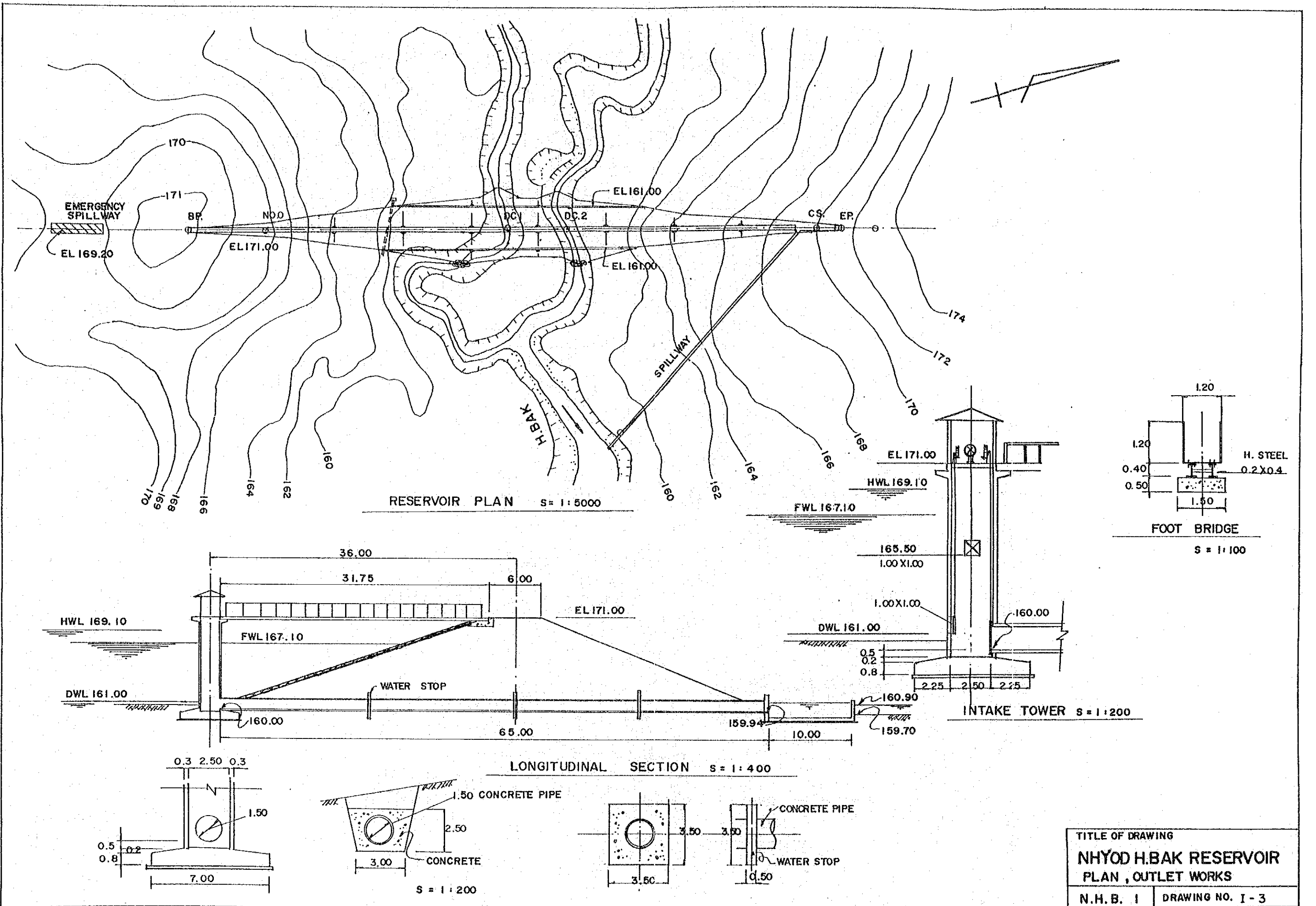
J NOY
 VOIR)

RMC No.4

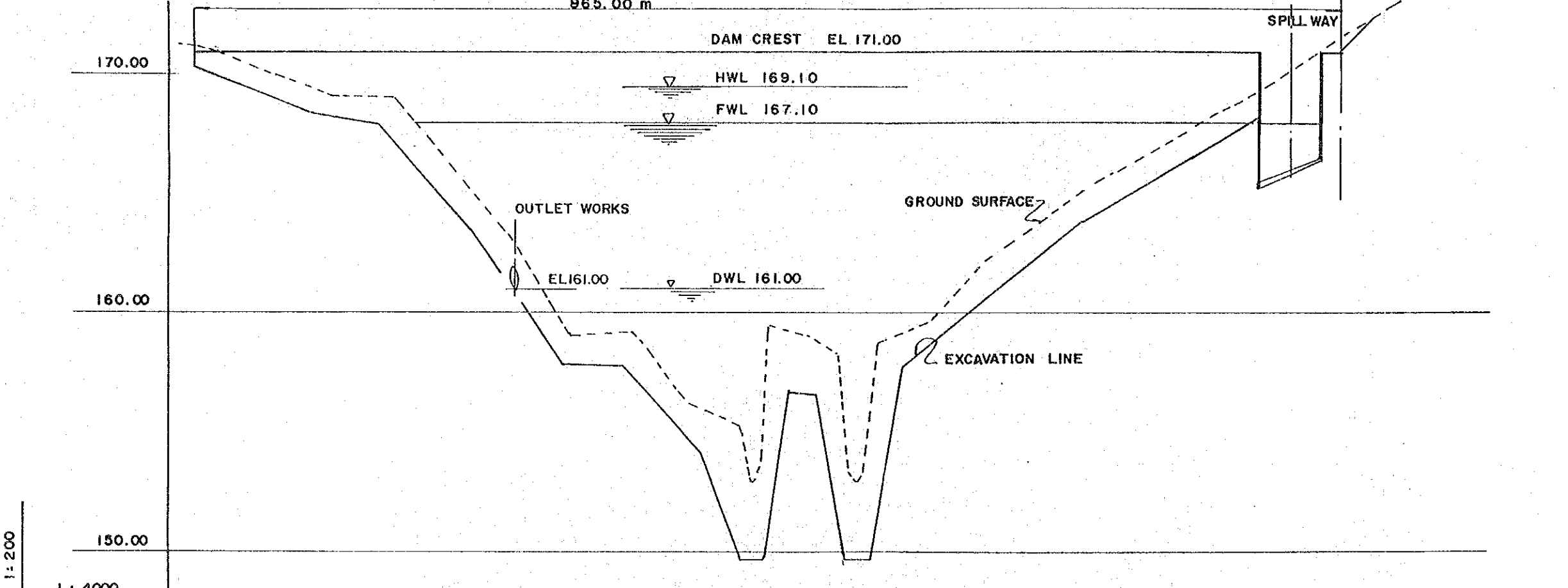
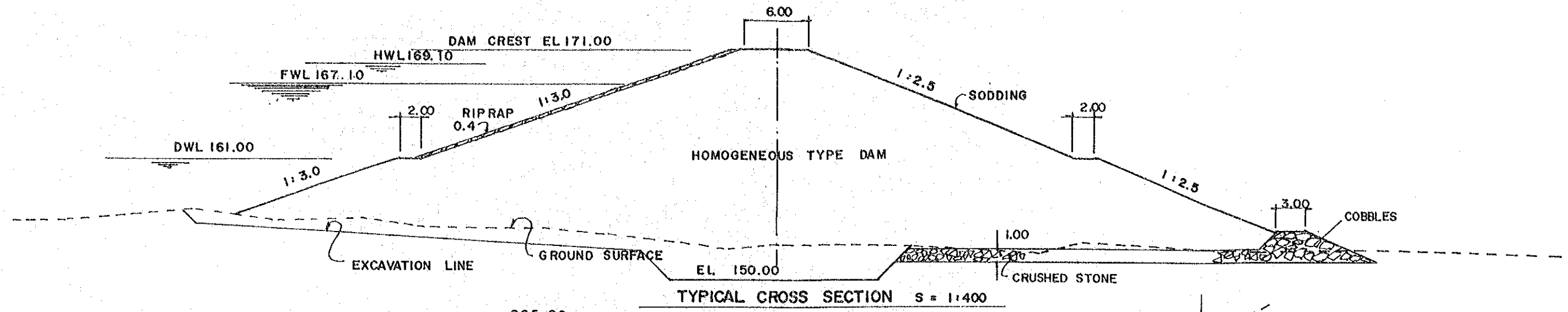
No.4 (H. RHOU RESERVOIR)



GENERAL LAYOUT OF IRRIGATION & DRAINAGE FACILITIES
 (NAMPHOU IRRIGATION AREA) DRAINAGE No 1 - 2

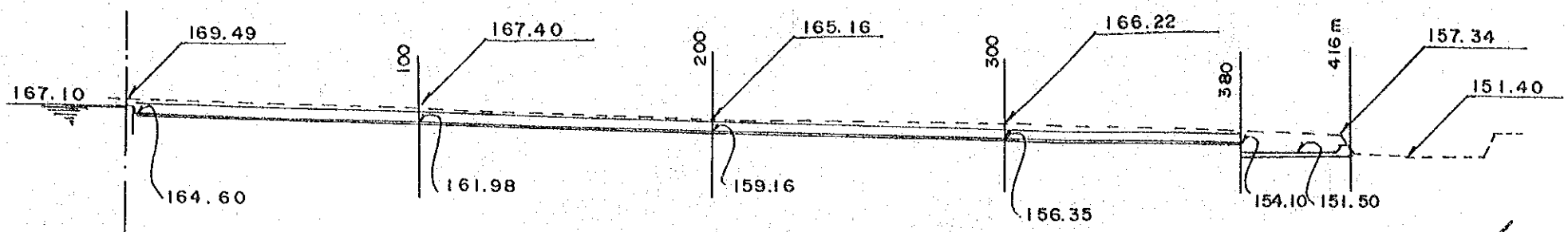


TITLE OF DRAWING	
NHYOD H.BAK RESERVOIR	
PLAN, OUTLET WORKS	
N.H.B. 1	DRAWING NO. I - 3

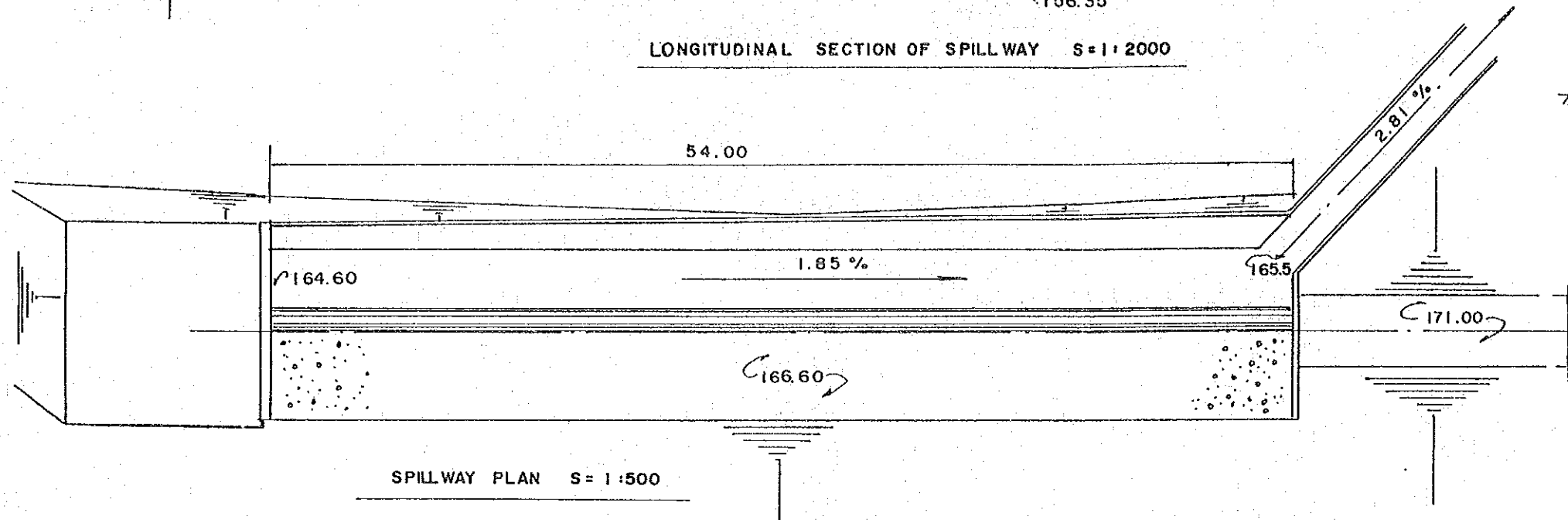


GROUND ELEVATION	171.20	170.95	169.70	169.10	169.08	166.00	163.08	159.10	159.26	156.36	155.27	152.95	159.64	159.16	152.89	155.34	159.50	162.34	164.17	165.81	167.16	168.68	169.97	170.39	171.78	173.14
ACCUMULATE DISTANCE	0	15	65	115	165	215	265	315	365	415	465	515	565	615	665	715	765	815	865	915	922.5	965	965	965	965	965
DISTANCE	0	15	50	0	50	50	50	50	50	50	42.5	7.5	50	50	41.7	50	50	50	50	50	50	50	50	50	50	50
STATION	BP -100	-50	NO.0		NO.1		NO.2		NO.3		DC.1		NO.4		DC.2		NO.5		NO.6		NO.7		NO.8 C.S.	EP		NO.9

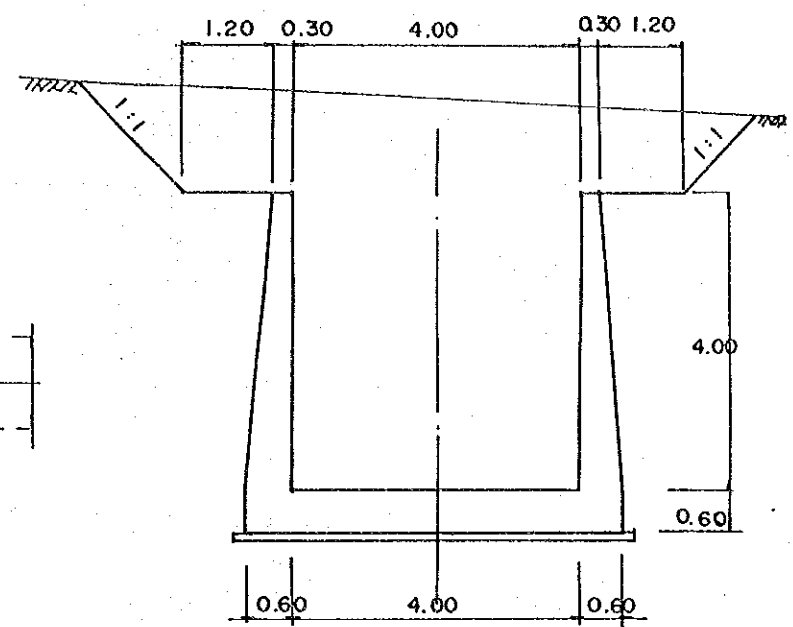
TITLE OF DRAWING
NHYOD H.BAK RESERVOIR
 LONGITUDINAL SECTION
 N.H.B. 2 DRAWING NO. I - 4



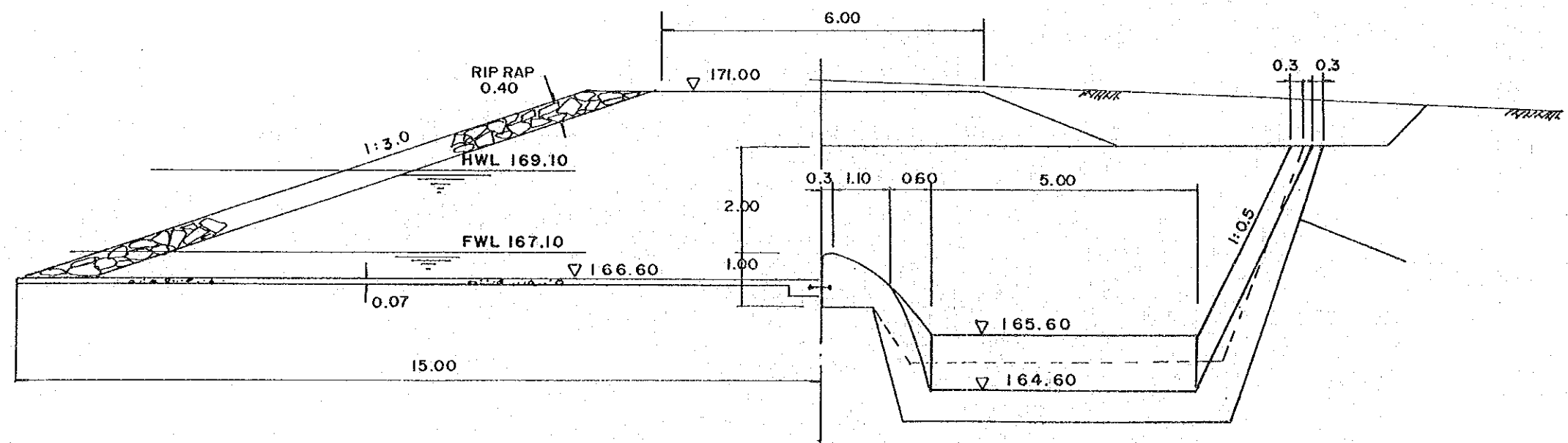
LONGITUDINAL SECTION OF SPILLWAY S = 1:2000



SPILLWAY PLAN S = 1:500

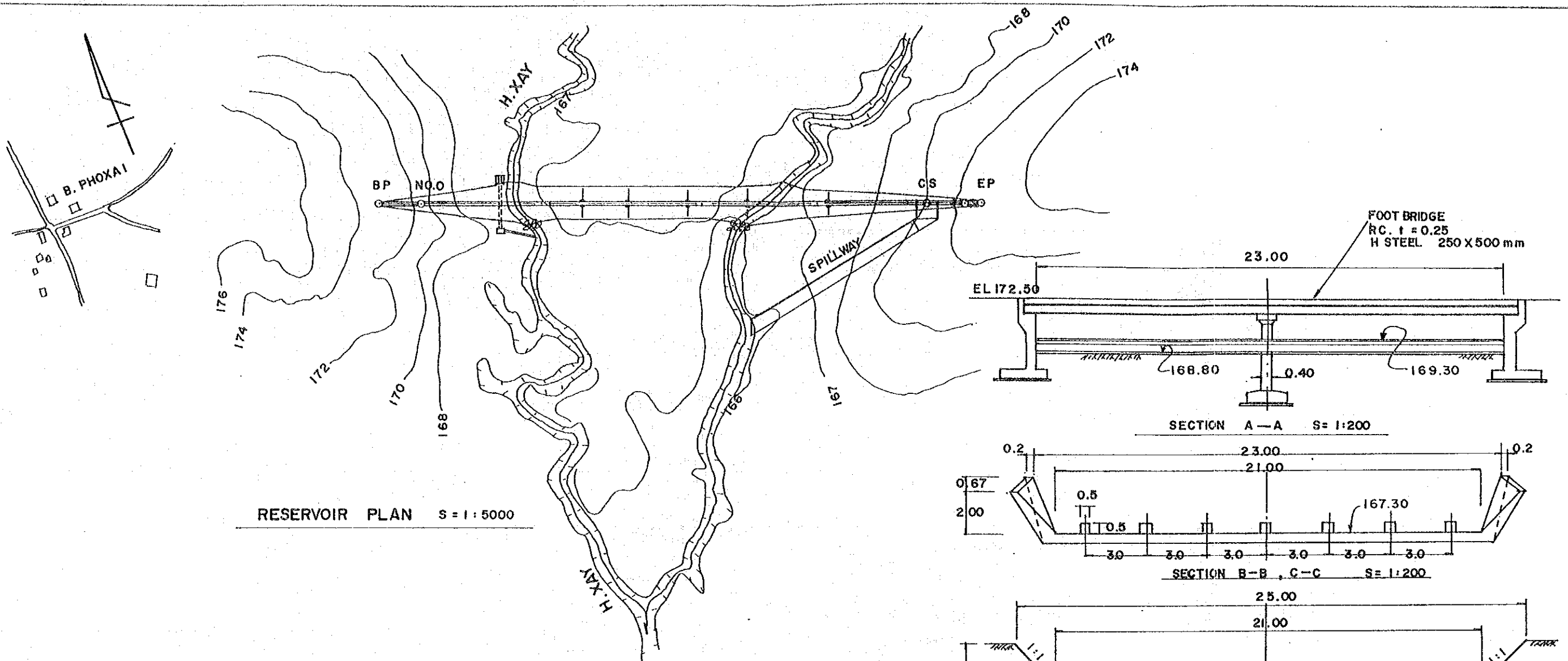


WASTE WAY S = 1:100

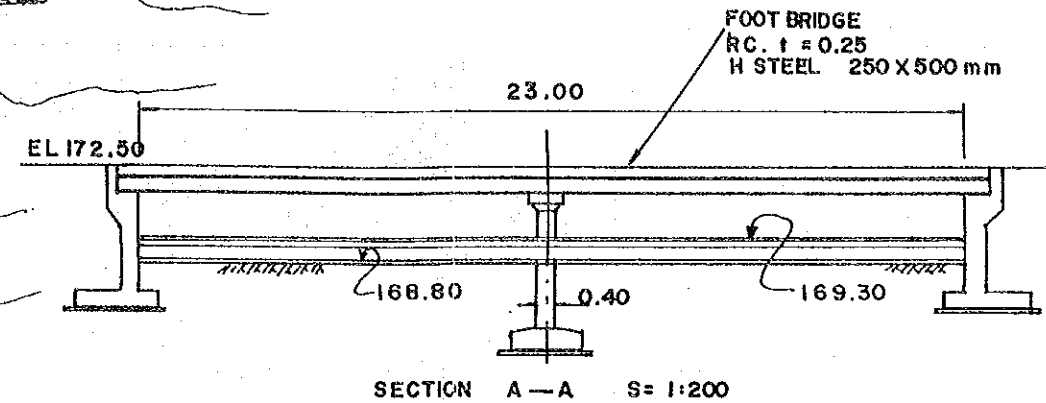


SPILLWAY SECTION S = 1:100

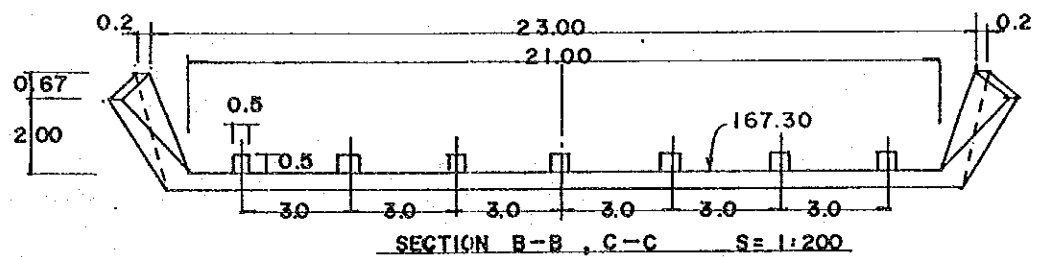
TITLE OF DRAWING	
NHYOD H. BAK RESERVOIR	
SPILLWAY	
N.H.B. 3	DRAWING NO. I - 5



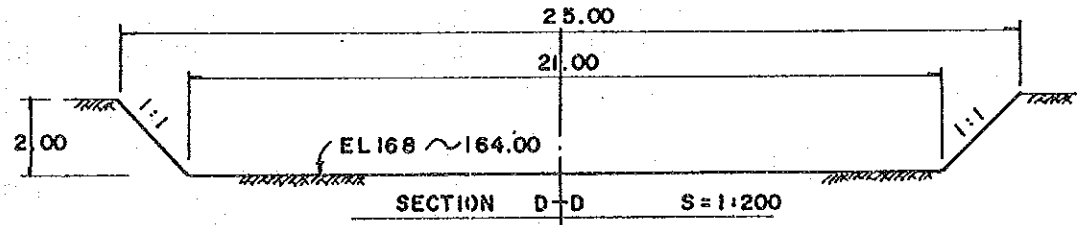
RESERVOIR PLAN S = 1 : 5000



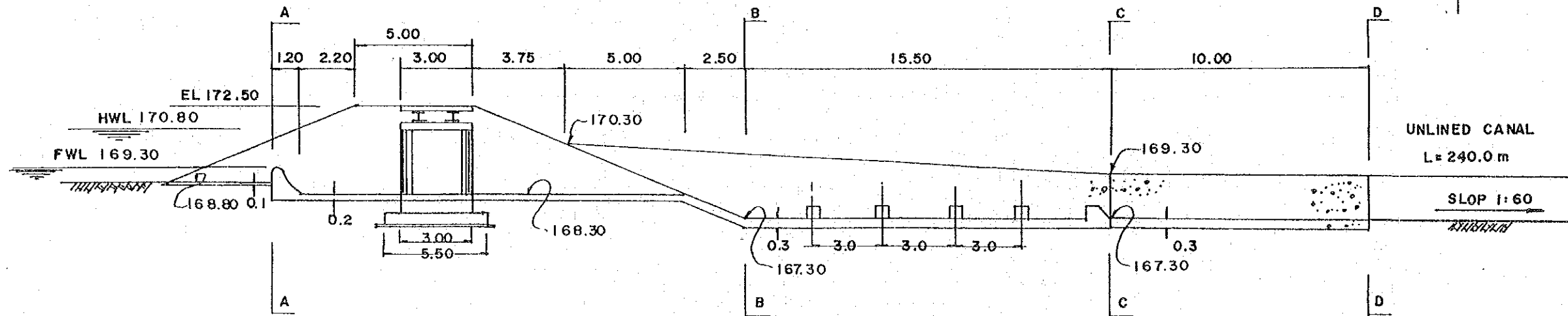
SECTION A-A S = 1:200



SECTION B-B, C-C S = 1:200

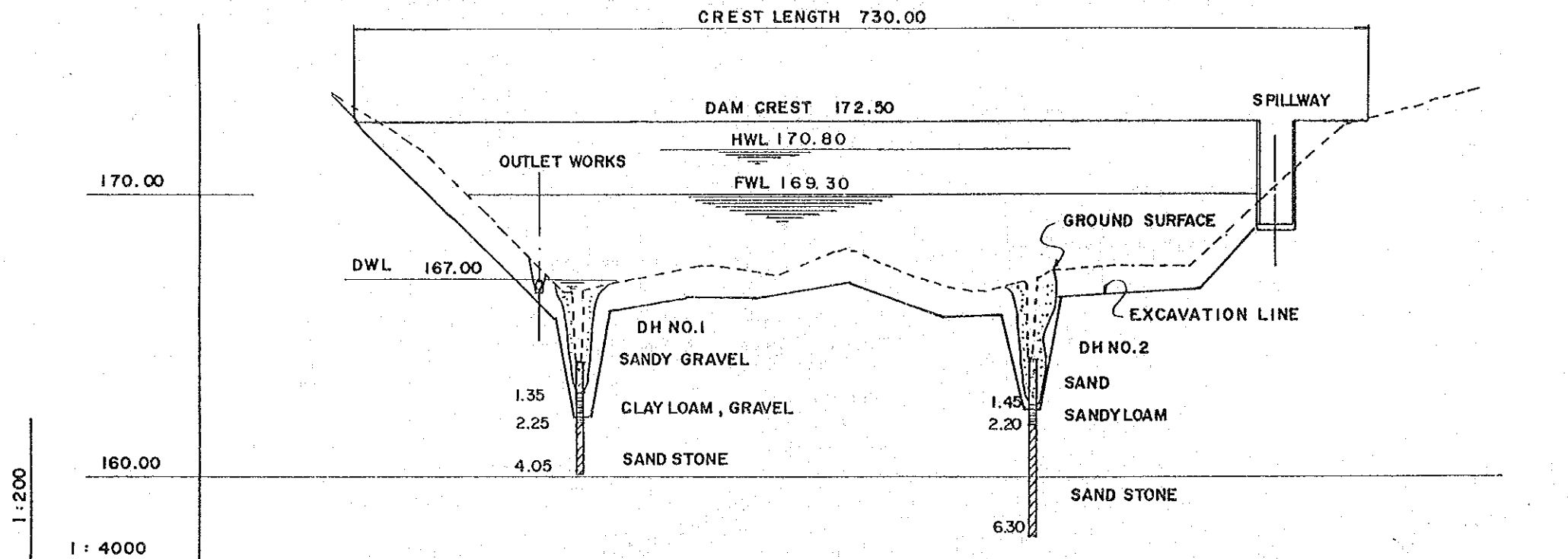
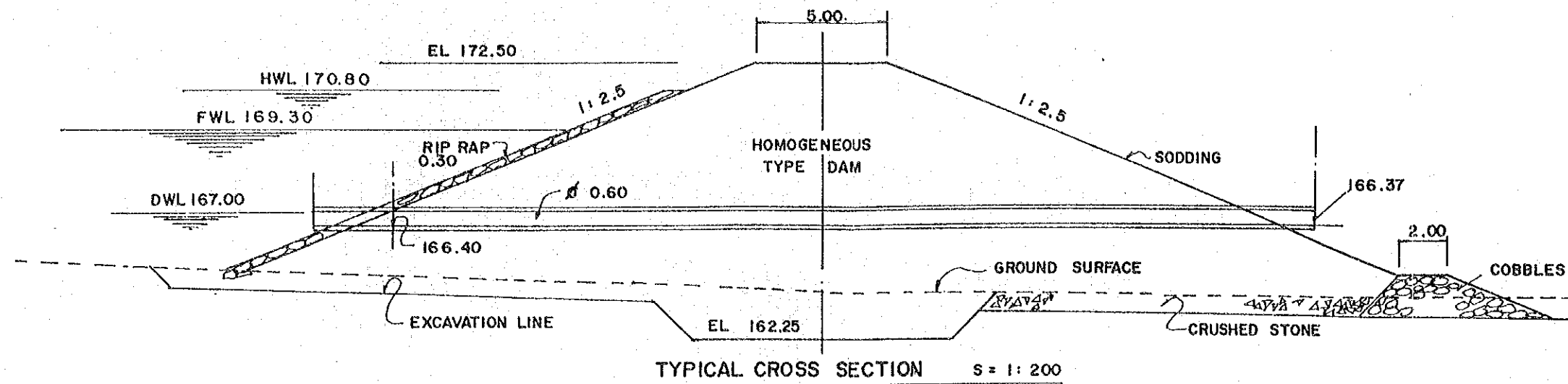


SECTION D-D S = 1:200



SPILLWAY SECTION S = 1 : 200

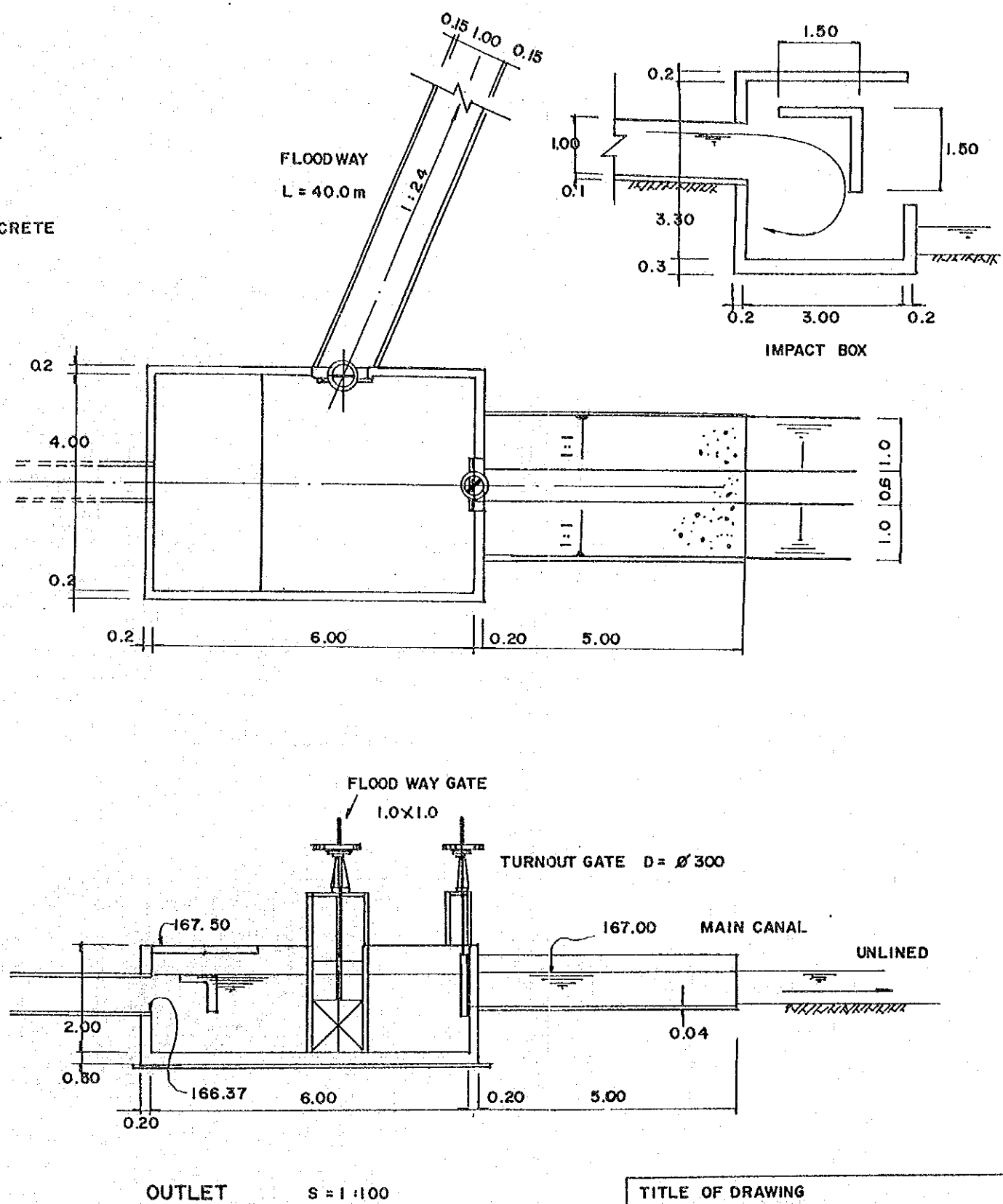
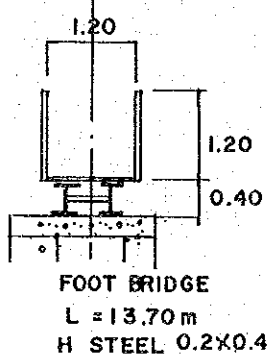
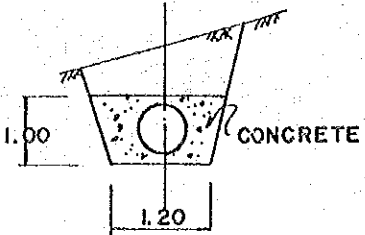
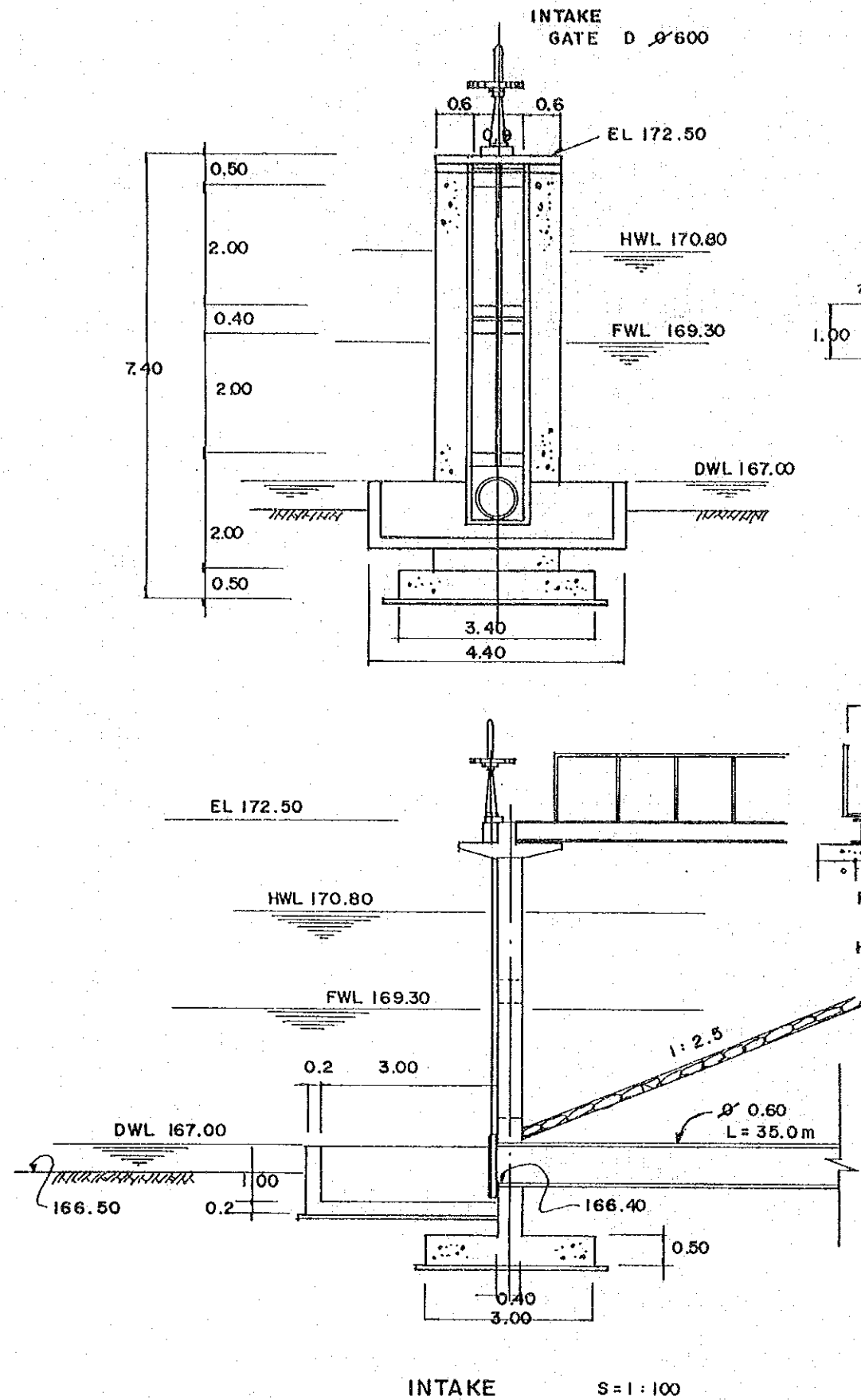
TITLE OF DRAWING	
NAMPHOU IRRIGATION NO.1	
RESERVOIR PLAN, SPILLWAY	
N.I.R. I	DRAWING NO. I - 6



GROUND ELEVATION		173.05	171.49	168.80	166.53	164.05	167.00	167.51	167.12	168.00	167.17	166.57	164.03	167.36	167.50	167.50	169.86	170.47	172.27	172.70	173.00
ACCUMULATE DISTANCE		0	50	100	150	200	250	300	350	400	450	500	550	600	650	710	730				
DISTANCE		-50	0	50	50	8.8	41.2	50	50	50	50	50	33.1	16.9	50	50	50	11.5	48.5	20	30
STATION		B.P.	NO. 0		NO. 1			NO. 2		NO. 3		NO. 4		NO. 5		NO. 6	CS		E.P.		

TITLE OF DRAWING
NAMPHOU IRRIGATION NO.1
RESERVOIR LONGITUDINAL SECTION

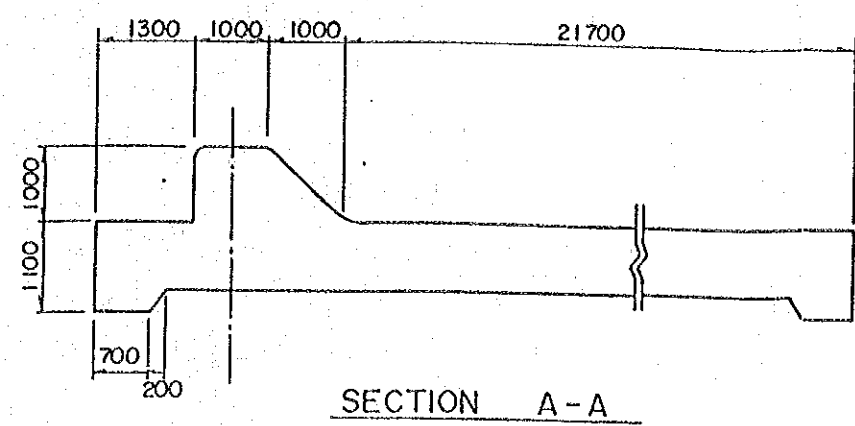
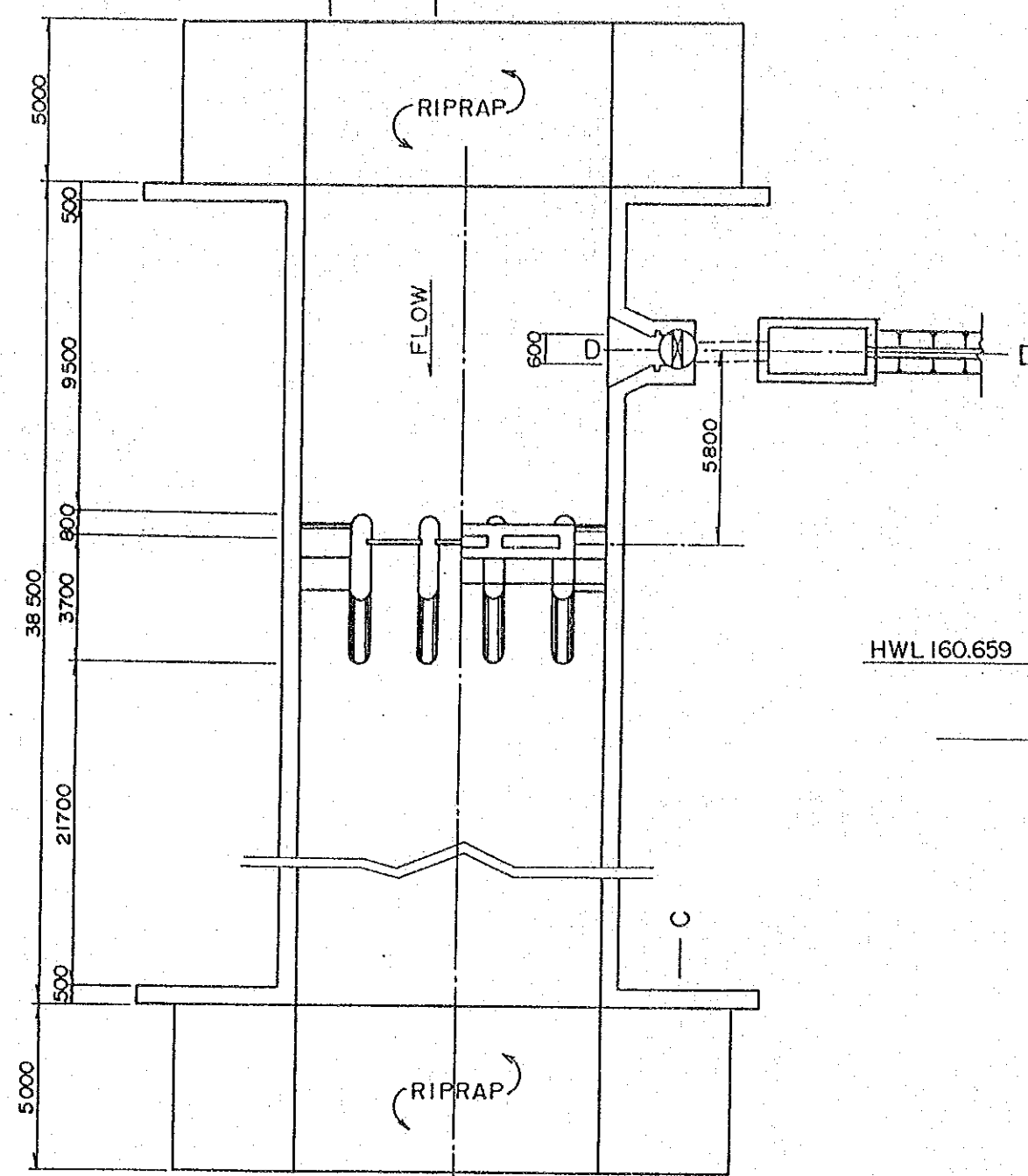
N.I.R. 2 DRAWING NO. I - 7



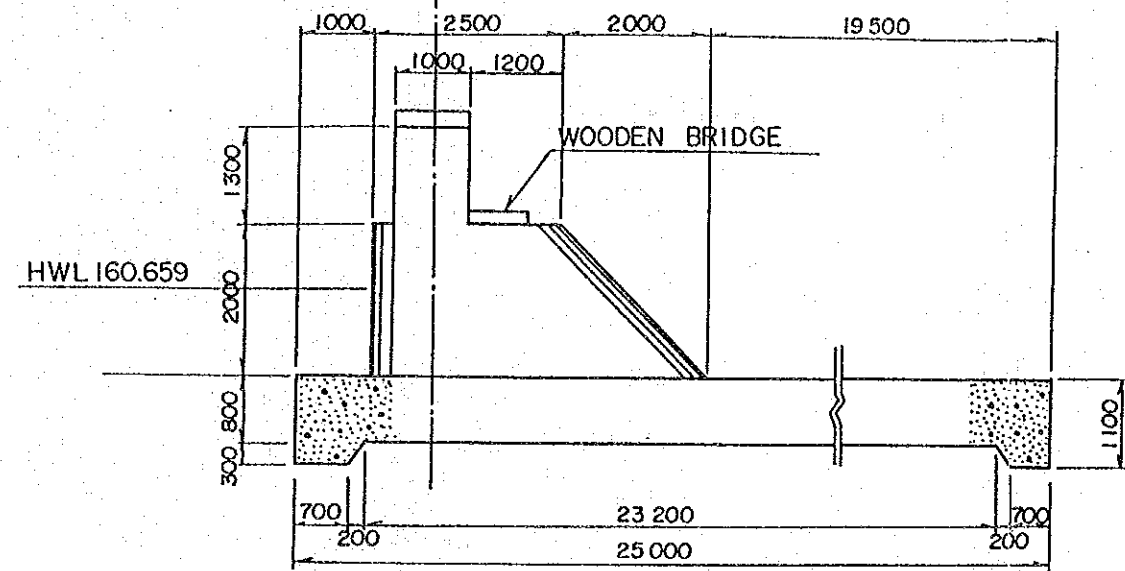
TITLE OF DRAWING
**NAMPHOU IRRIGATION NO.1
 RESERVOIR INTAKE, OUTLET**

N.I.R. 3 DRAWING NO. I - 8

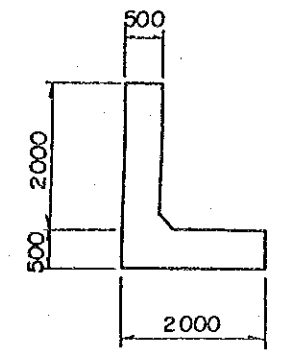
PLAN



SECTION A-A

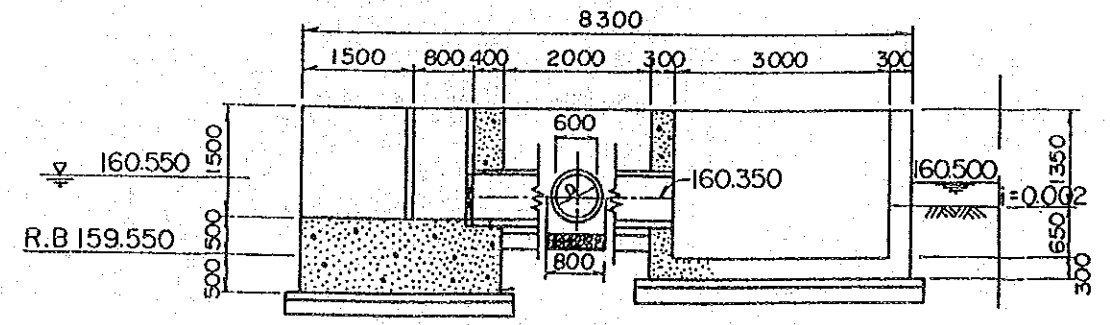
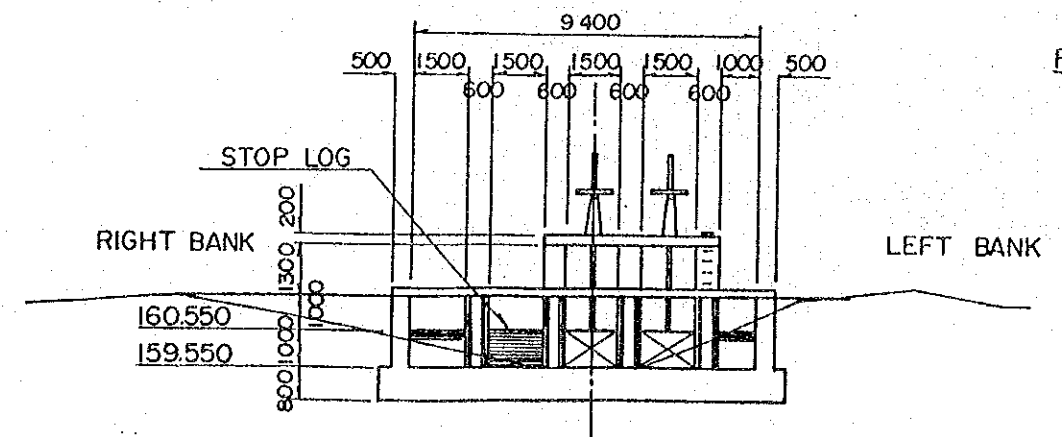


SECTION B-B

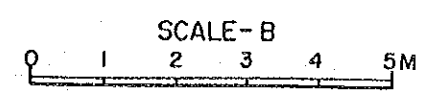
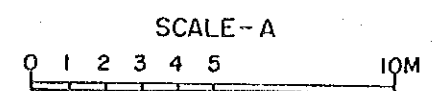


SECTION C-C

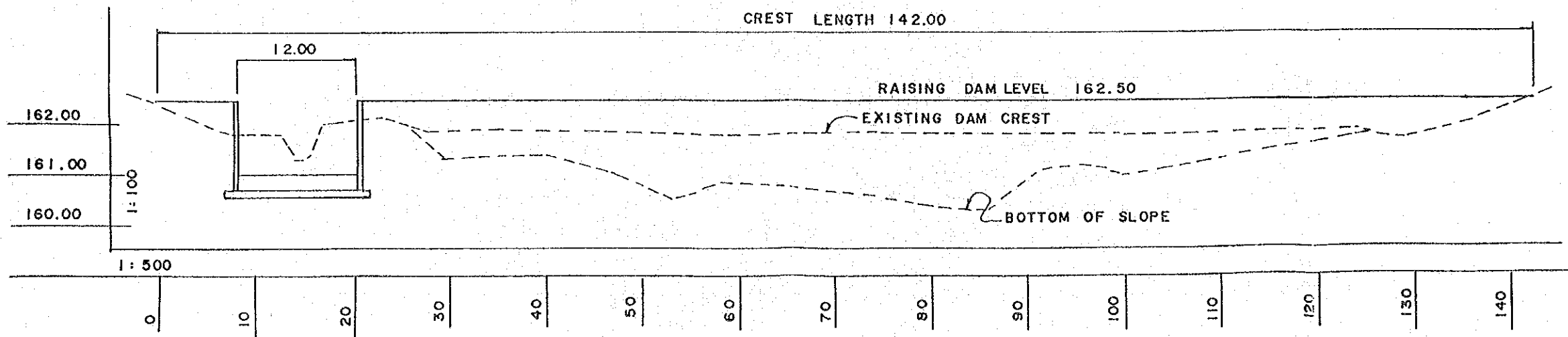
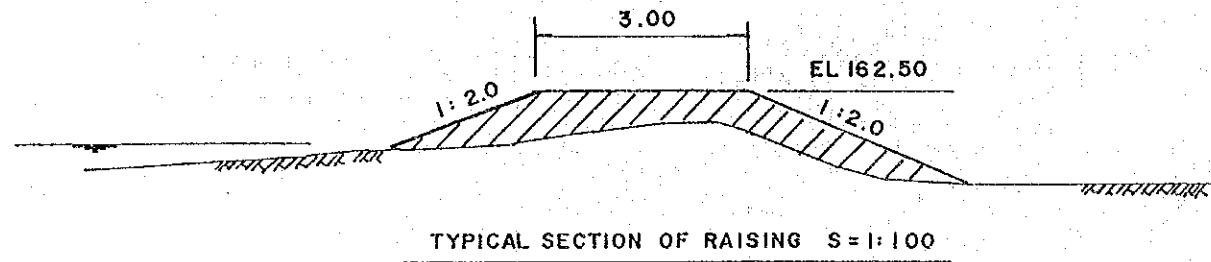
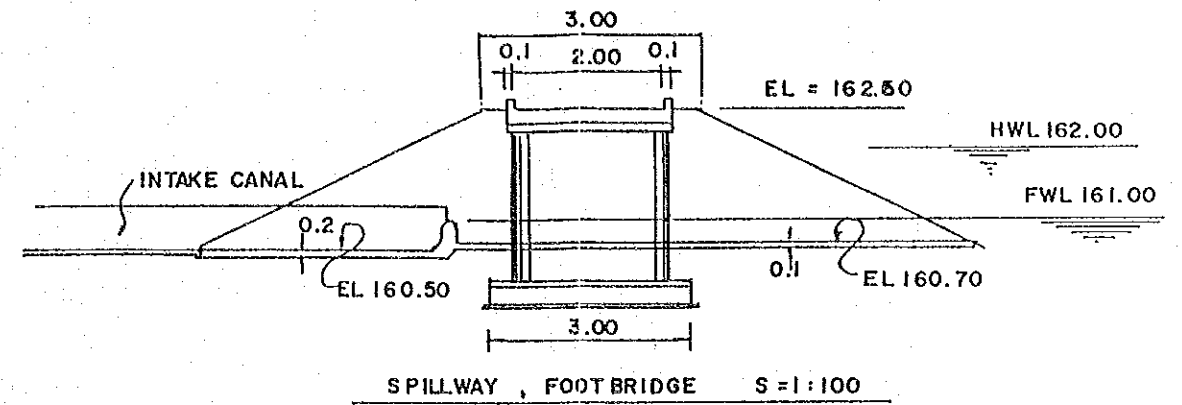
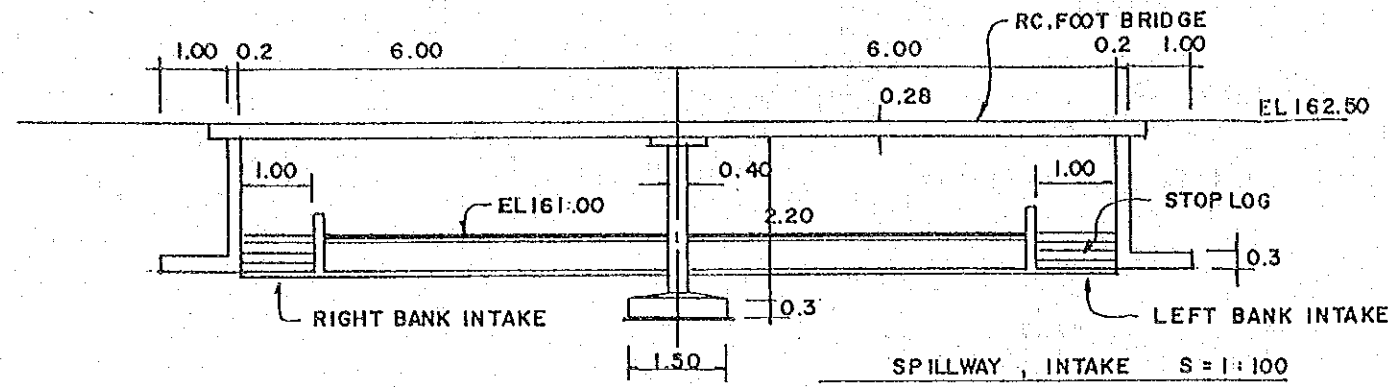
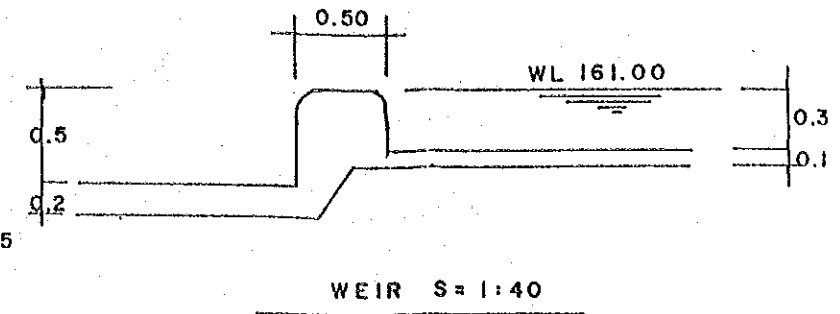
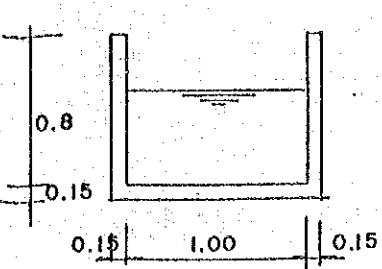
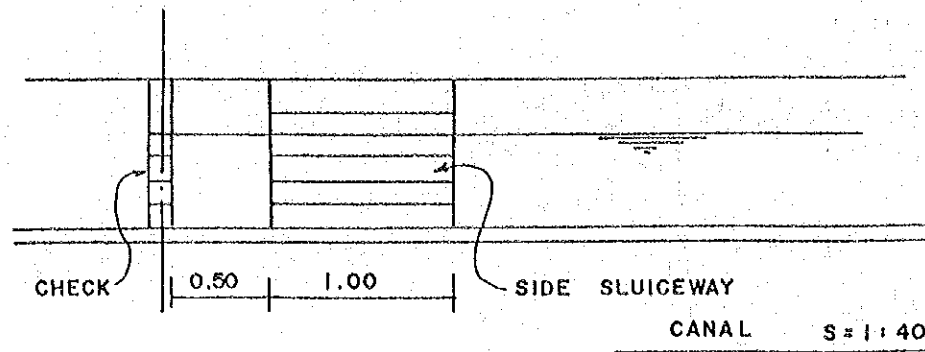
PROFILE



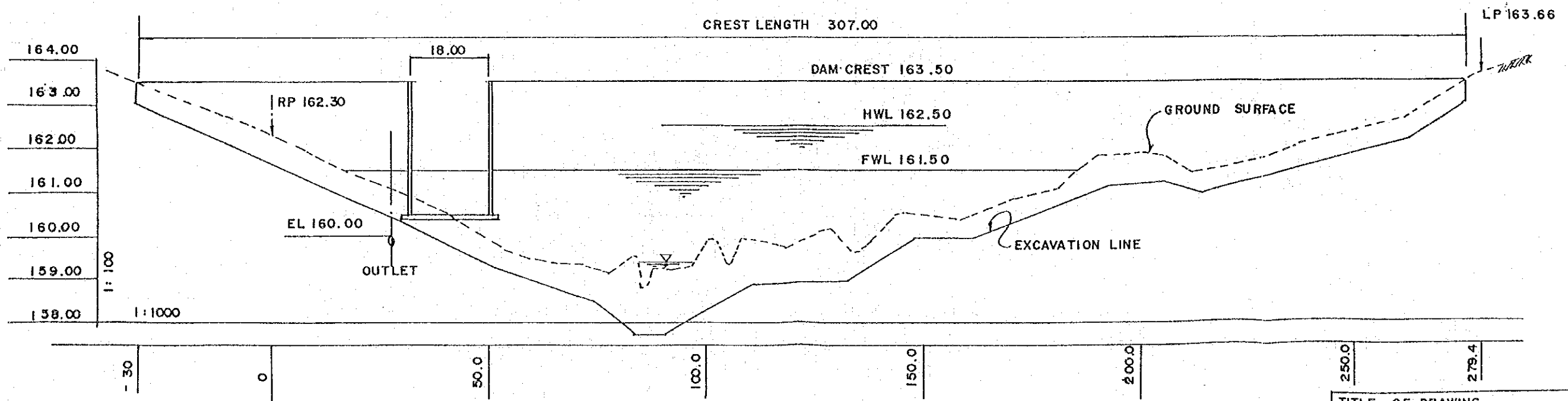
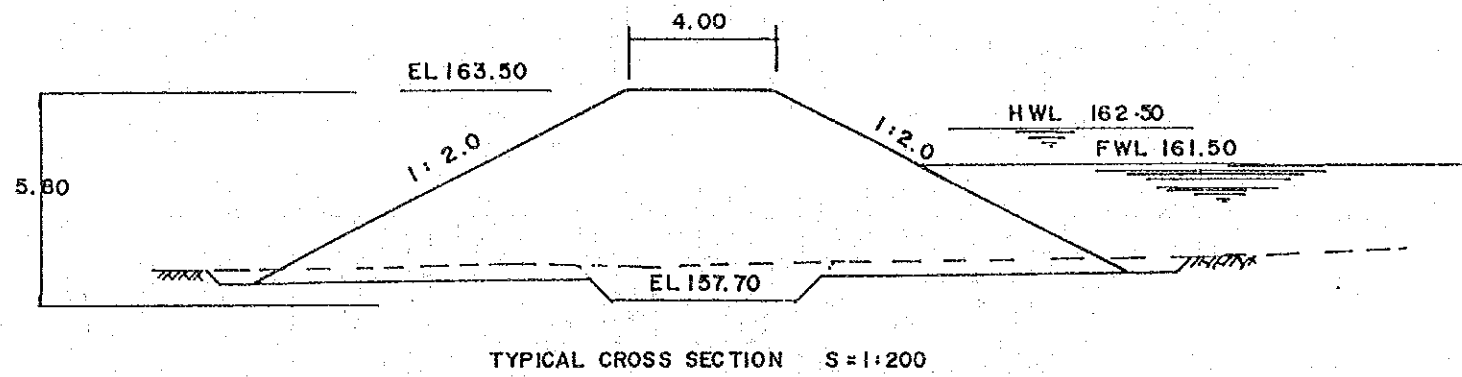
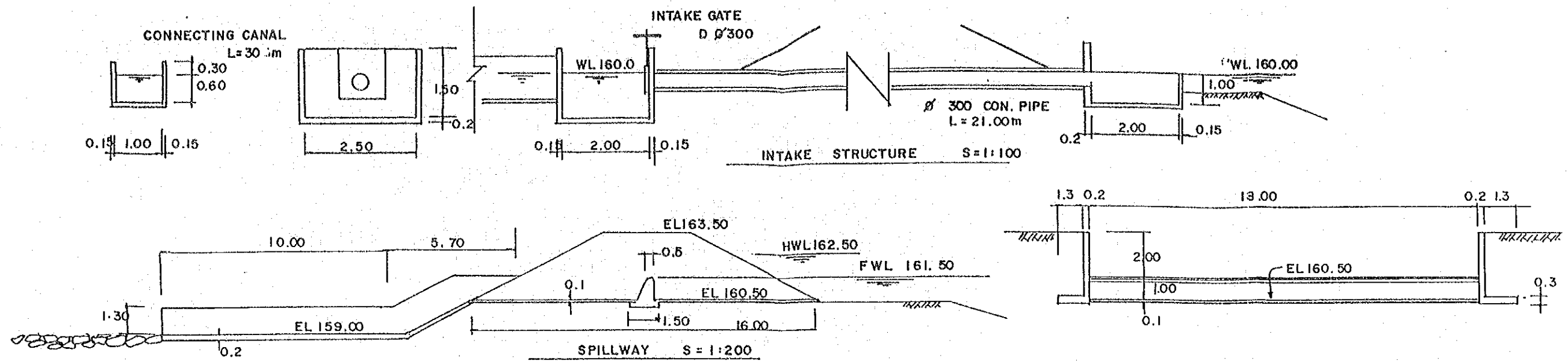
SECTION D-D



TITLE OF DRAWING
 NAMPHOU IRRIGATION
 No. 2 DIVERSION WEIR
 DRAWING No. I-9

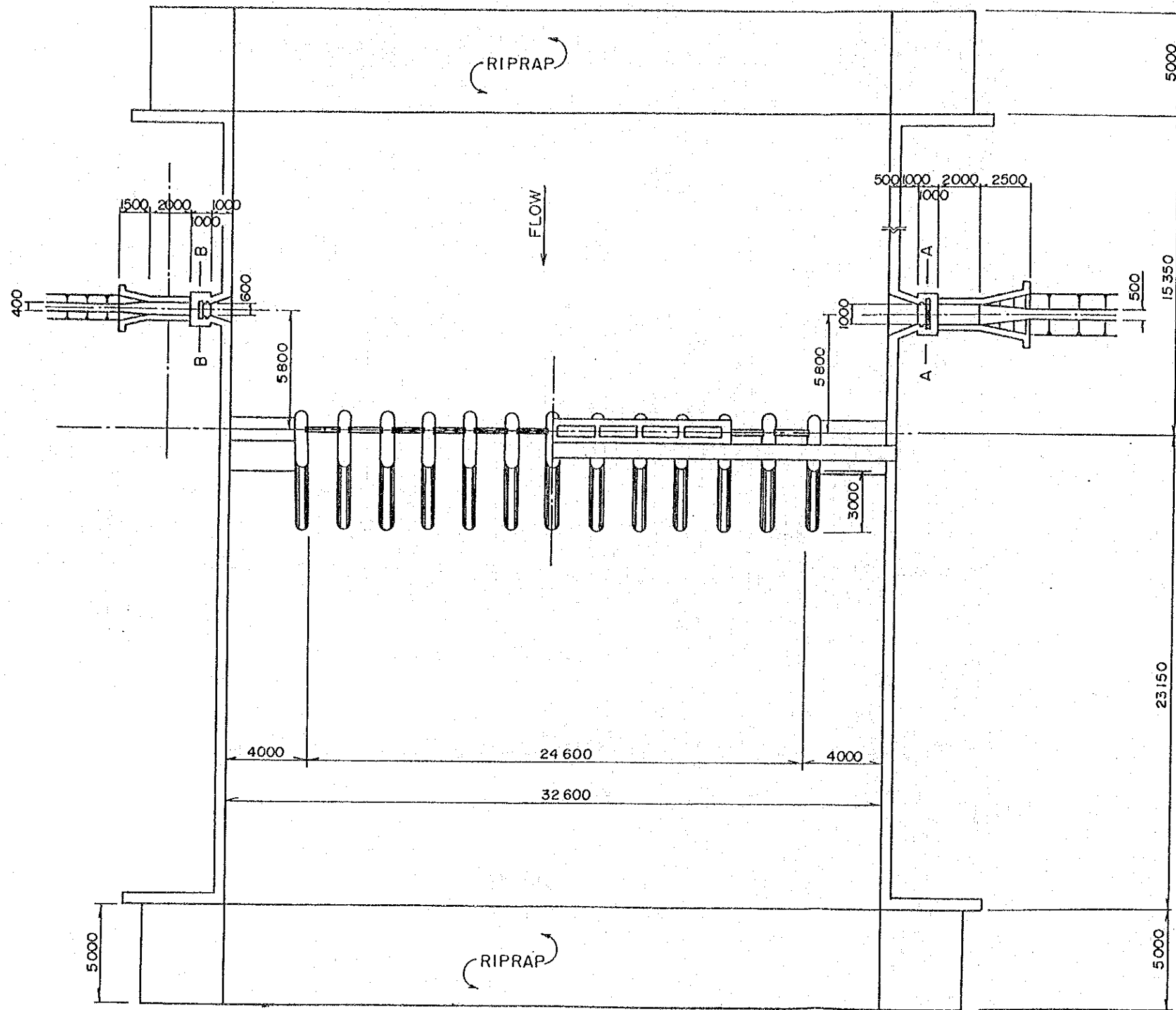


TITLE OF DRAWING
**NAMPHOU IRRIGATION
 NO.3 RESERVOIR**
 DRAWING NO. I-10

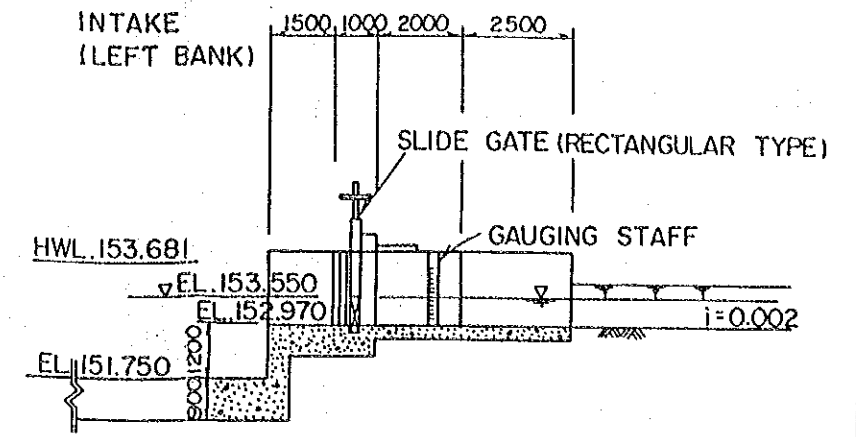


TITLE OF DRAWING
NAMPHOU IRRIGATION
NO. 4 RESERVOIR

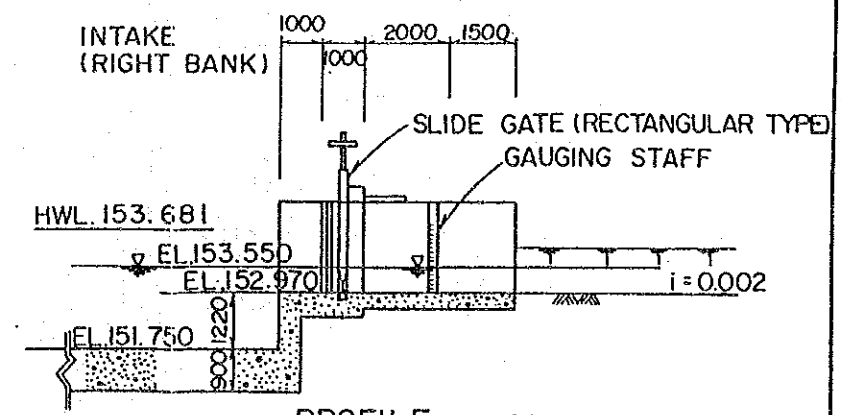
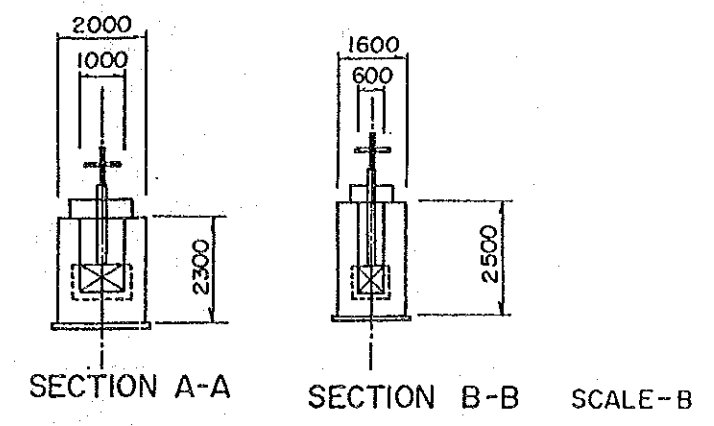
DRAWING NO. I - 11



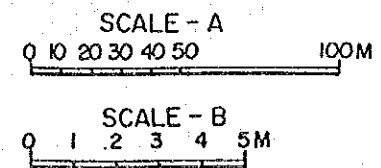
PLAN SCALE - A



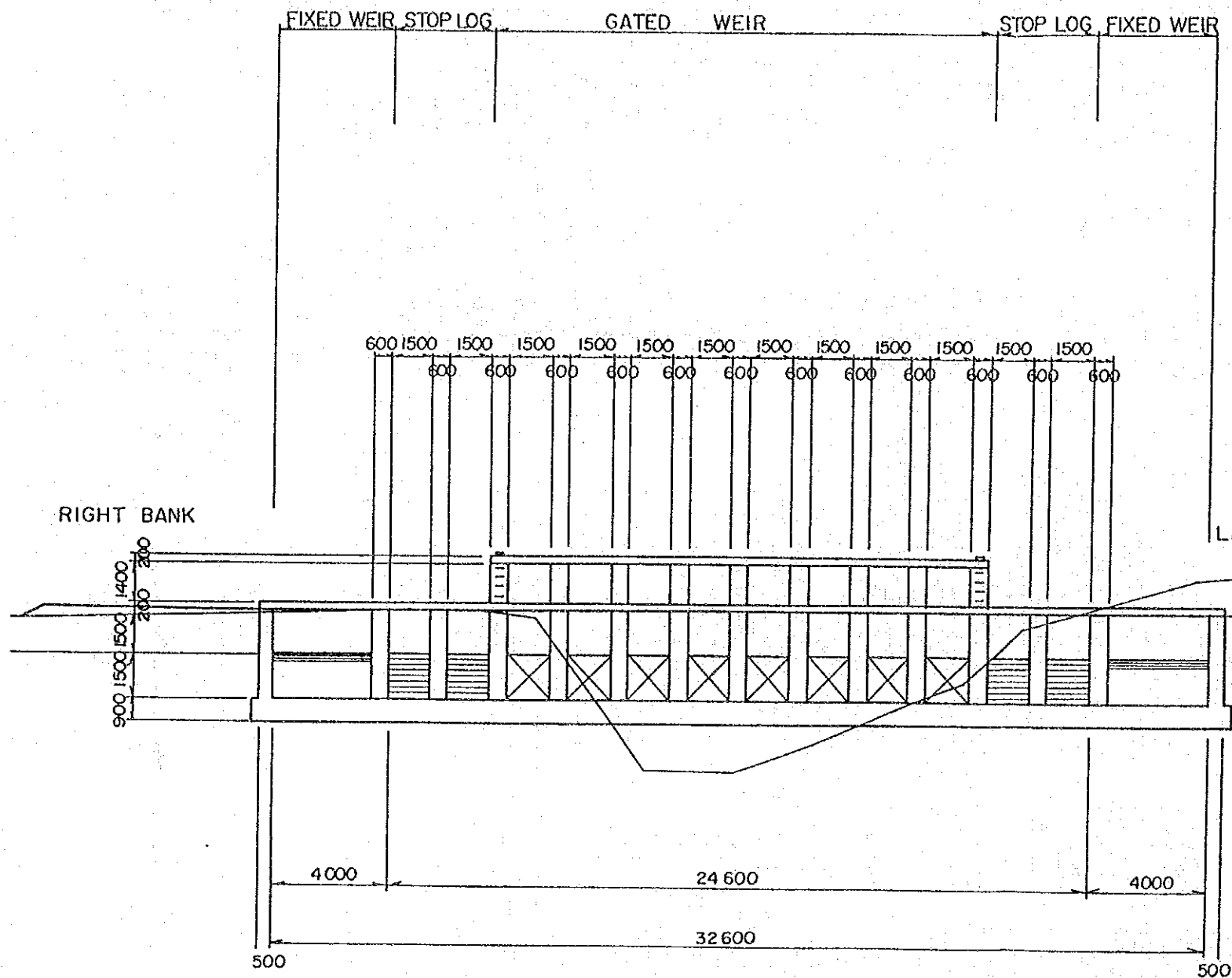
PROFILE SCALE - B



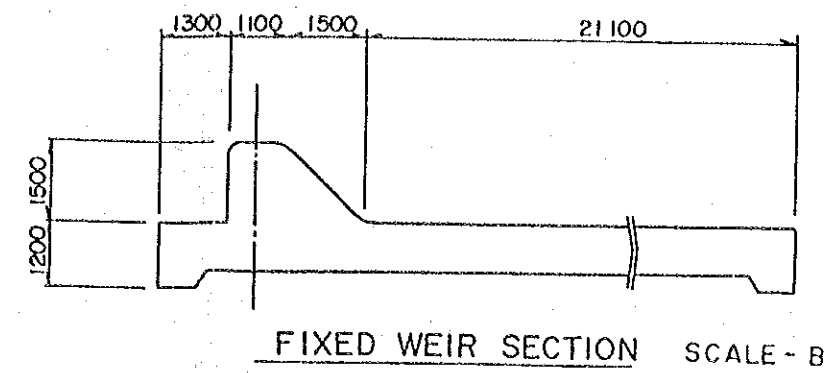
PROFILE SCALE - B



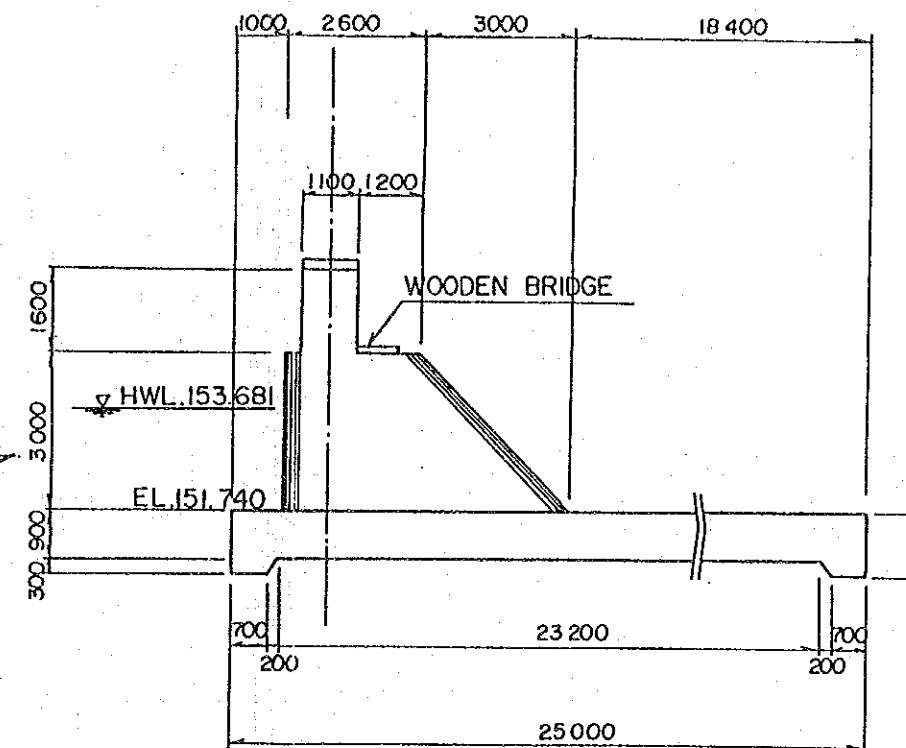
TITLE OF DRAWING
 NAMPHOU IRRIGATION
 No.5 DIVERSION WEIR 1/2
 DRAWING No. I-12



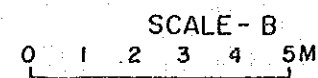
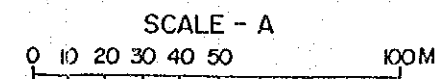
PROFILE SCALE-A



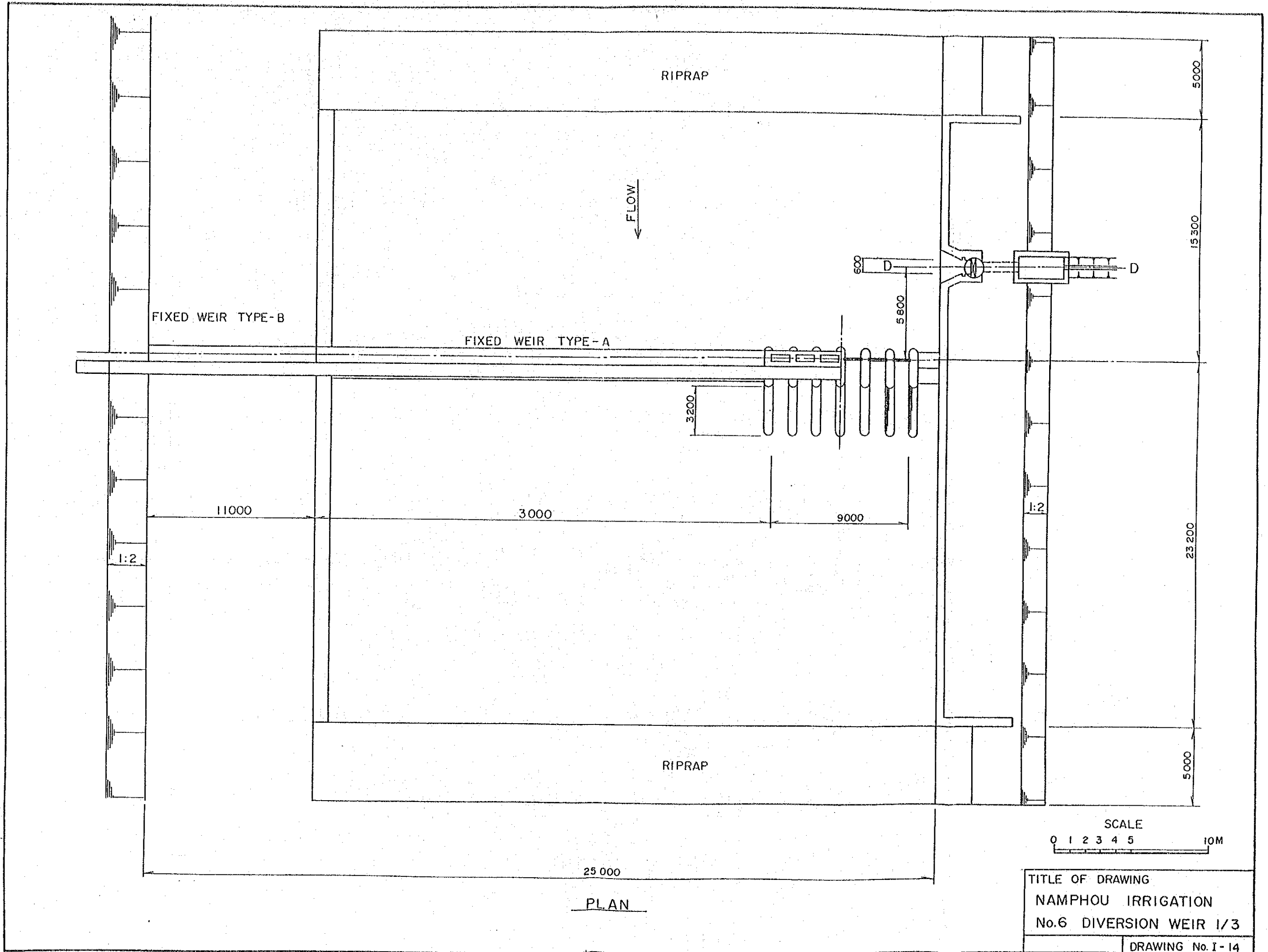
FIXED WEIR SECTION SCALE - B



GATED WEIR SECTION SCALE - B



TITLE OF DRAWING
NAMPHOU IRRIGATION
No. 5 DIVERSION WEIR 2/2
DRAWING No. I-13



RIPRAP

FLOW
↓

FIXED WEIR TYPE-B

FIXED WEIR TYPE-A

600

5800

3200

11000

3000

9000

1:2

1:2

23200

5000

15300

5000

RIPRAP

25000

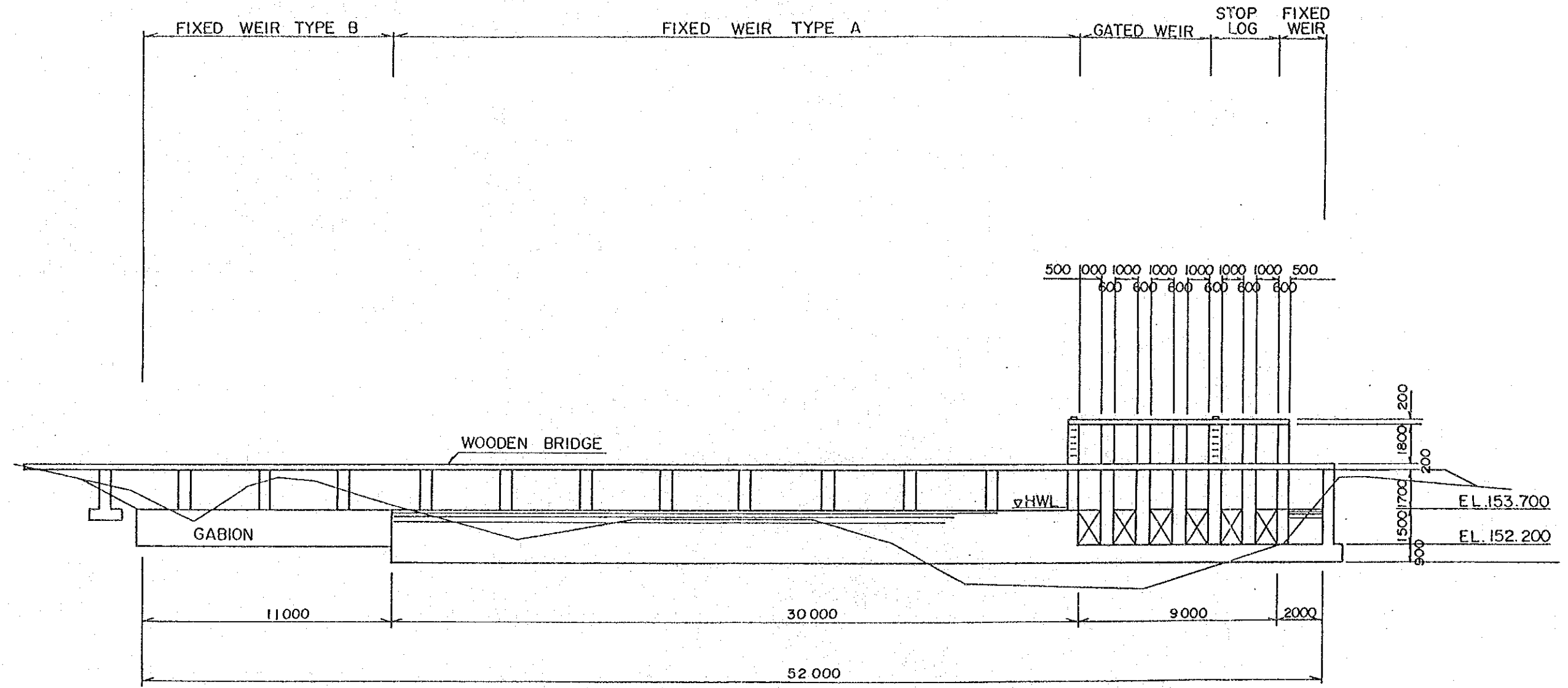
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SCALE

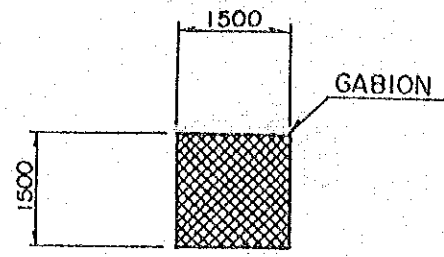
0 1 2 3 4 5 10M

TITLE OF DRAWING
NAMPHOU IRRIGATION
No.6 DIVERSION WEIR 1/3

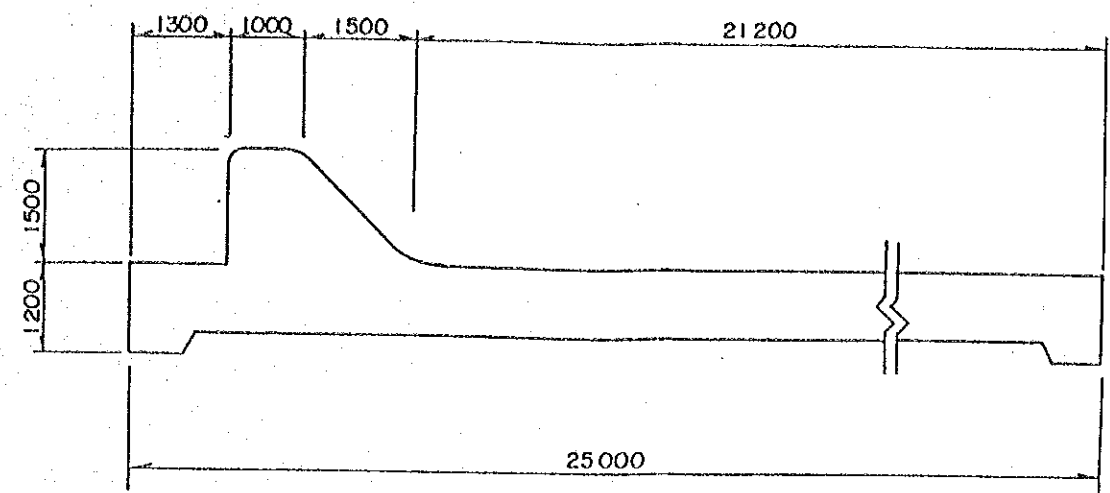
DRAWING No. I-14



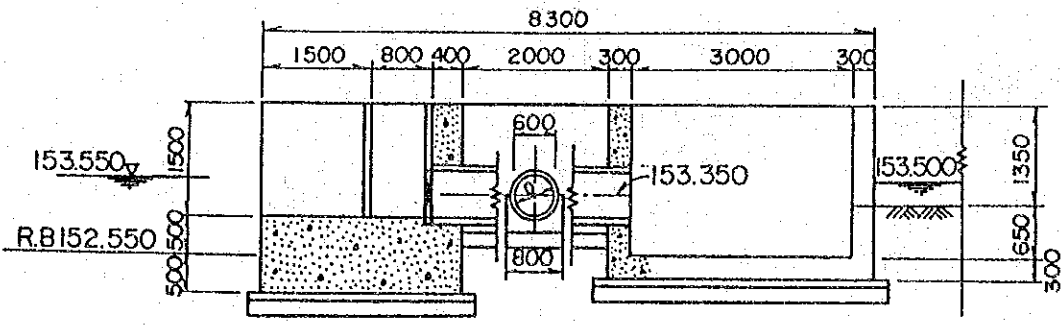
TITLE OF DRAWING
NAMPHOU IRRIGATION
No.6 DIVERSION WEIR 2/3
DRAWING No. I - 15



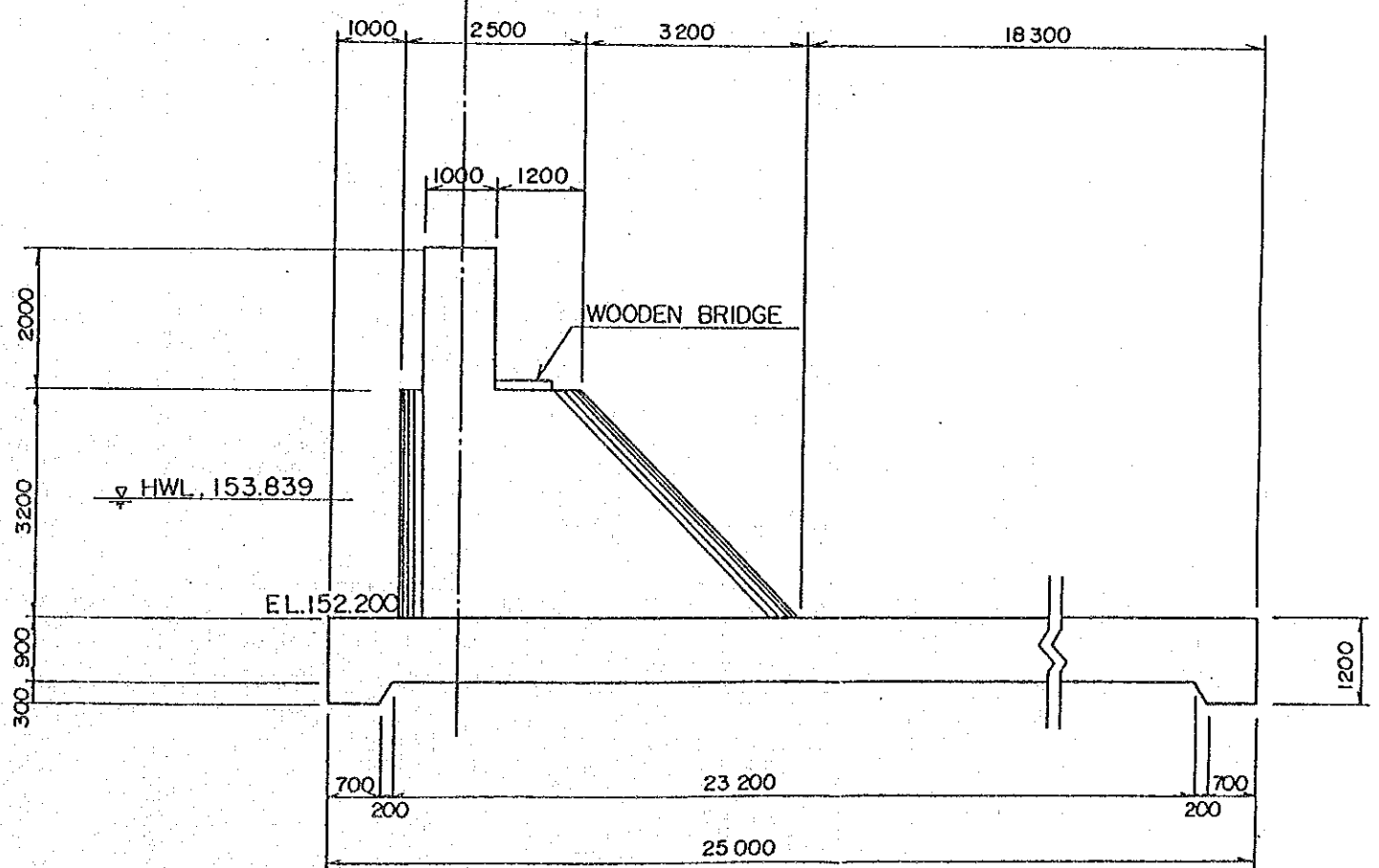
FIXED WEIR TYPE B SECTION C-C



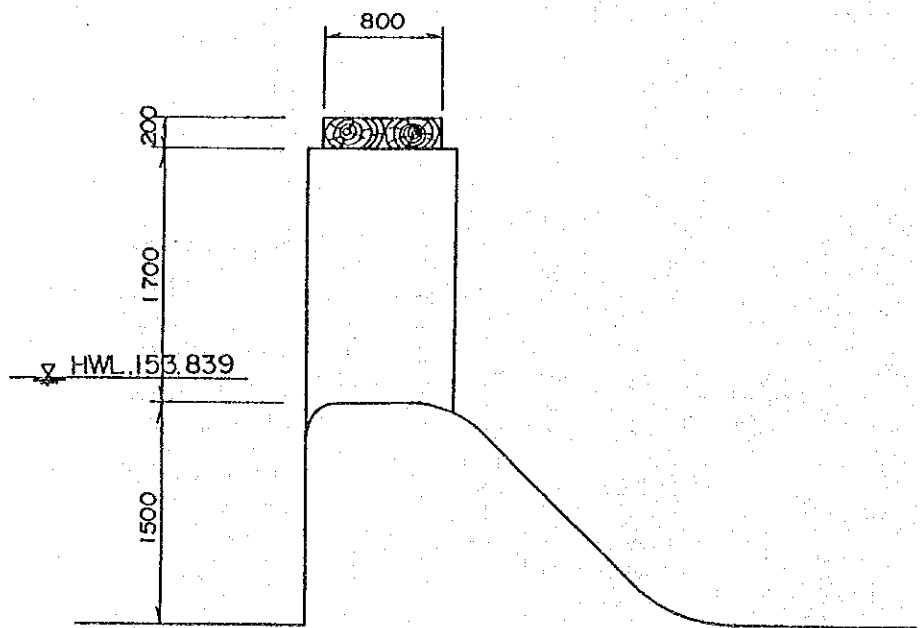
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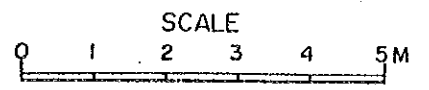
SECTION D-D



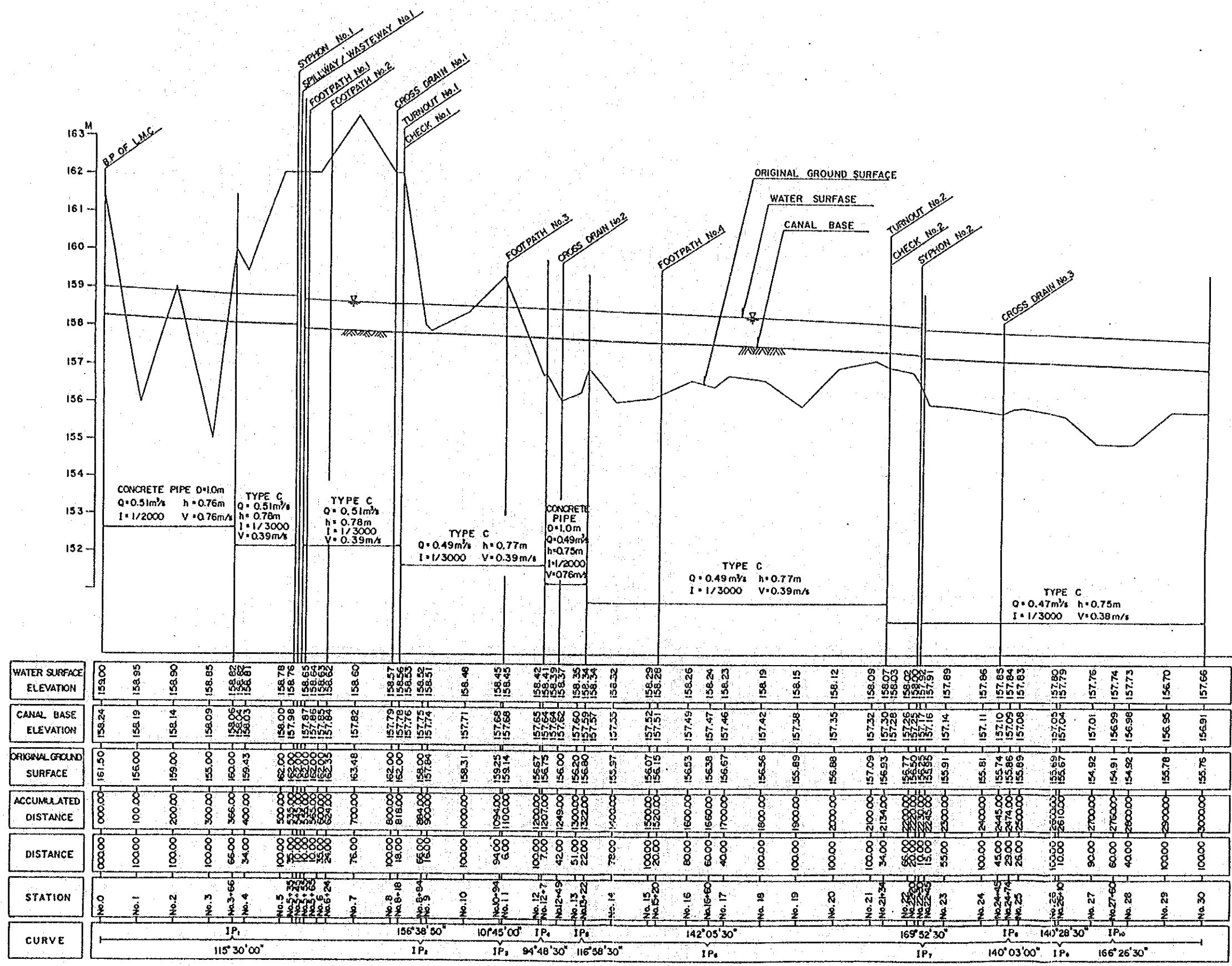
GATED WEIR SECTION B-B



WOODEN BRIDGE SECTION

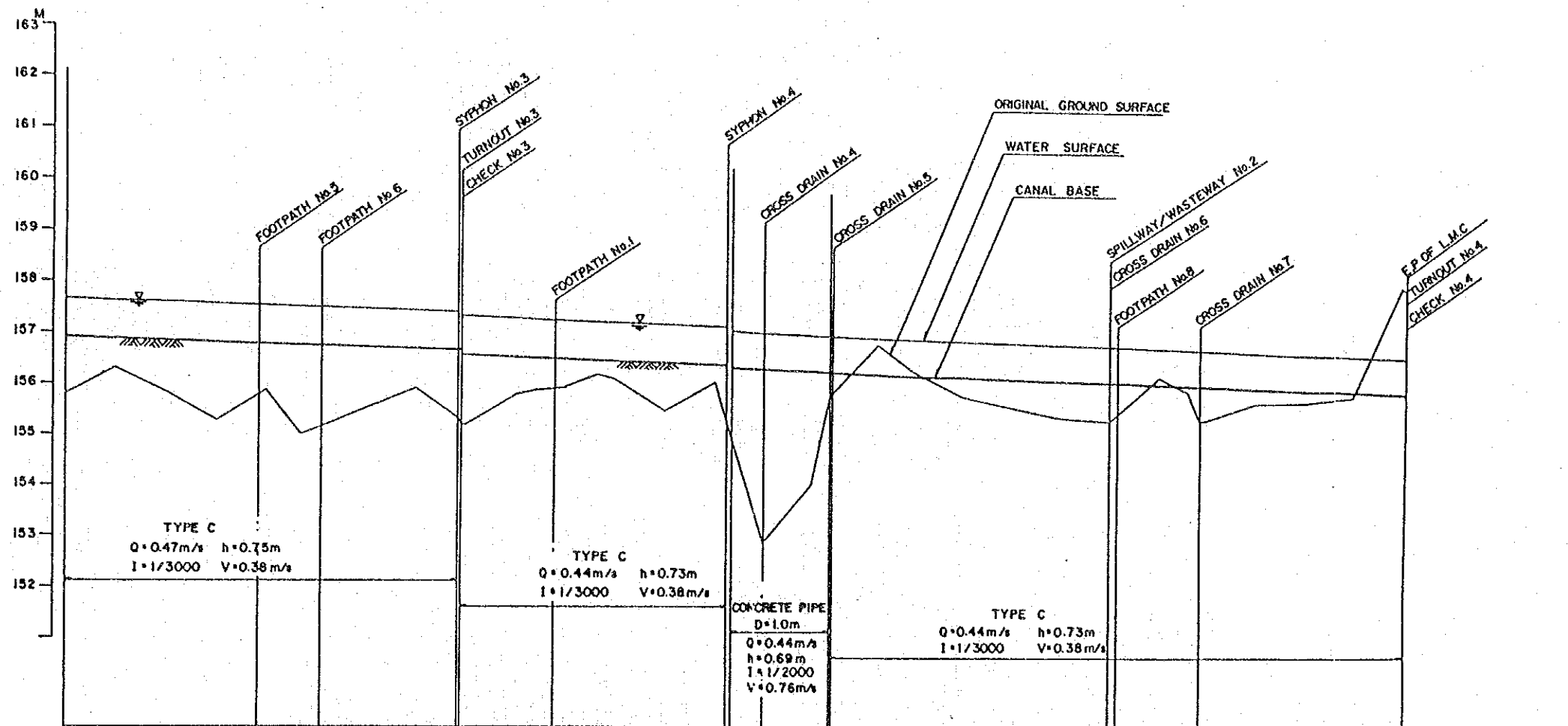


TITLE OF DRAWING
NAMPHOU IRRIGATION
No.6 DIVERSION WEIR 3/3
DRAWING No. I-16



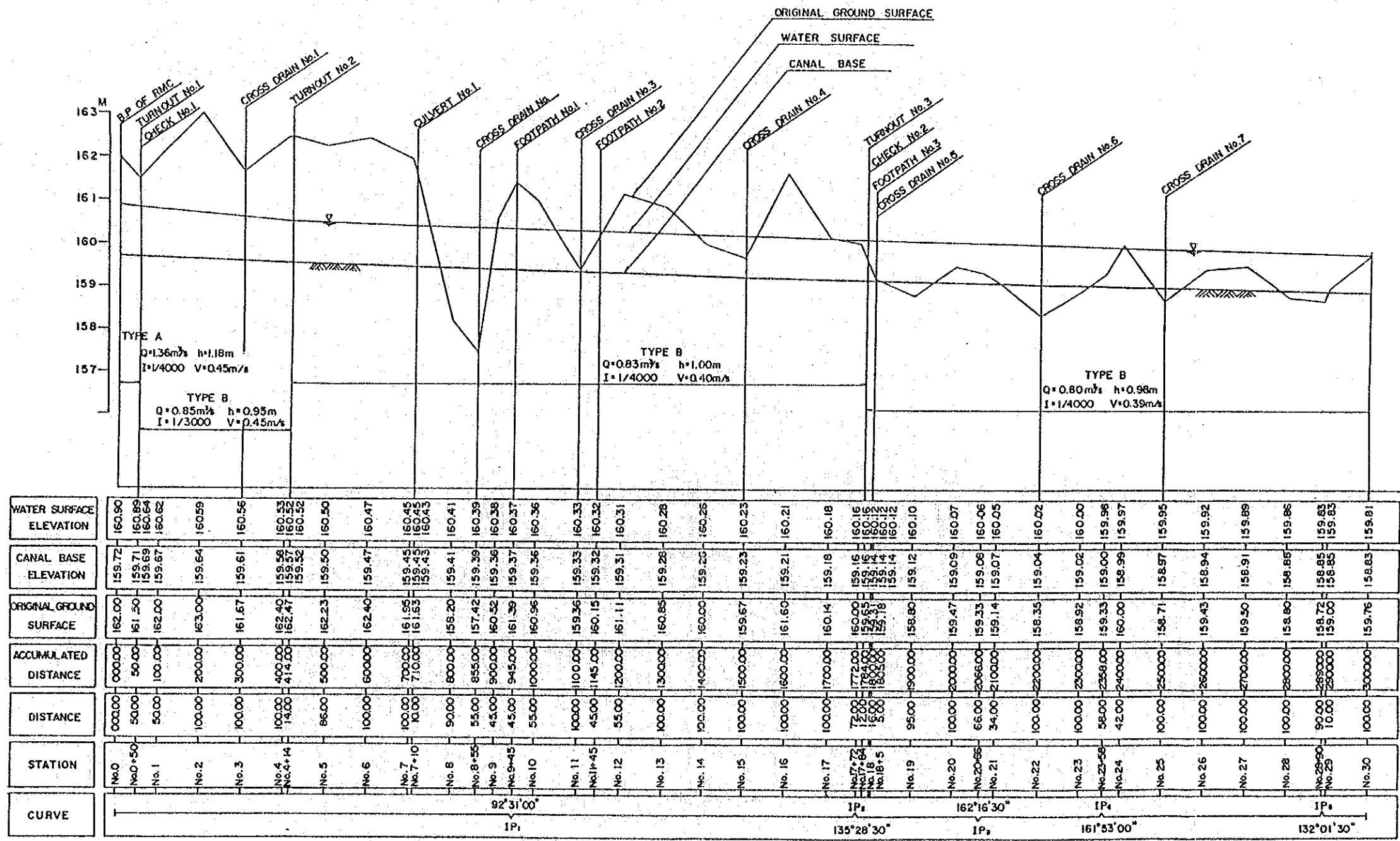
TITLE OF DRAWING
 NHYOD H.BAK IRRIGATION
 PROFILE OF MAIN CANAL
 LMC (1/2)

DRAWING No. I-17

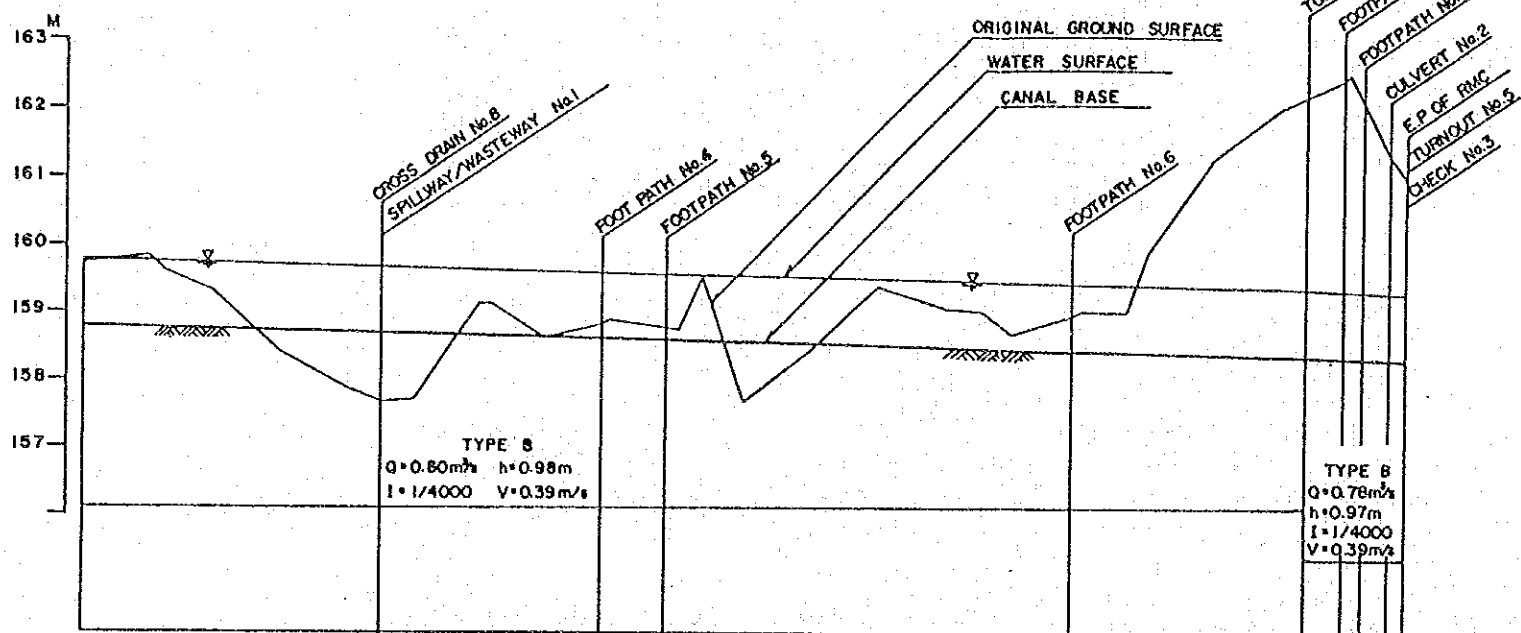


WATER SURFACE ELEVATION	CANAL BASE ELEVATION	ORIGINAL GROUND SURFACE	ACCUMULATED DISTANCE	DISTANCE	STATION	CURVE
157.66	156.91	153.76	000.00	00.00	No. 30	
157.63	156.88	156.29	100.00	100.00	No. 31	
157.60	156.85	155.82	200.00	100.00	No. 32	
157.56	156.81	155.27	300.00	100.00	No. 33	
157.54	156.79	155.76	338.40	38.40	No. 34	
157.53	156.78	155.88	340.00	16.00	No. 34	
157.51	156.76	155.00	346.80	68.00	No. 34-68	
157.50	156.75	155.11	350.00	32.00	No. 35	
157.49	156.74	155.15	3510.00	10.00	No. 35-10	
157.46	156.71	155.50	3600.00	90.00	No. 36	
157.42	156.67	155.92	3700.00	100.00	No. 37	
157.40	156.65	155.92	375.00	55.00	No. 37-55	
157.39	156.64	155.92	375.00	0.00	No. 37-55	
157.38	156.63	155.92	375.00	0.00	No. 37-55	
157.37	156.62	155.92	375.00	0.00	No. 37-55	
157.36	156.61	155.92	375.00	0.00	No. 37-55	
157.35	156.60	155.92	375.00	0.00	No. 37-55	
157.34	156.59	155.92	375.00	0.00	No. 37-55	
157.33	156.58	155.92	375.00	0.00	No. 37-55	
157.32	156.57	155.92	375.00	0.00	No. 37-55	
157.31	156.56	155.92	375.00	0.00	No. 37-55	
157.30	156.55	155.92	375.00	0.00	No. 37-55	
157.27	156.52	155.79	3900.00	150.00	No. 39	
157.26	156.51	155.85	3945.00	45.00	No. 39-45	
157.24	156.49	155.90	3981.00	36.00	No. 39-81	
157.23	156.48	155.92	4000.00	19.00	No. 40	
157.19	156.46	155.15	4070.00	70.00	No. 40-70	
157.18	156.45	156.06	4100.00	30.00	No. 41	
157.14	156.41	155.45	4200.00	100.00	No. 42	
157.11	156.38	156.00	4300.00	100.00	No. 43	
157.10	156.37	156.00	4300.00	0.00	No. 43	
157.08	156.29	156.00	4340.00	40.00	No. 43-40	
156.95	156.26	154.85	4400.00	60.00	No. 44	
156.90	156.21	154.00	4500.00	100.00	No. 45	
156.88	156.19	155.73	4535.00	35.00	No. 45-35	
156.88	156.15	155.73	4540.00	5.00	No. 45-35	
156.85	156.12	156.44	4600.00	60.00	No. 46	
156.82	156.09	156.22	4700.00	100.00	No. 47	
156.79	156.06	155.74	4800.00	100.00	No. 48	
156.75	156.02	155.52	4900.00	100.00	No. 49	
156.72	155.99	155.30	5000.00	100.00	No. 50	
156.69	155.96	155.25	5100.00	100.00	No. 51	
156.68	155.95	155.37	5114.00	14.00	No. 51-14	
156.65	155.92	156.10	5200.00	86.00	No. 52	
156.64	155.91	156.00	5250.00	50.00	No. 52-50	
156.63	155.90	156.00	5250.00	0.00	No. 52-50	
156.62	155.89	156.00	5250.00	0.00	No. 52-50	
156.59	155.86	155.61	5400.00	150.00	No. 54	
156.55	155.82	156.63	5500.00	100.00	No. 55	
156.52	155.79	155.73	5600.00	100.00	No. 56	
156.49	155.76	157.87	5700.00	100.00	No. 57	
156.49	155.76	157.80	5705.00	5.00	No. 57-5	

TITLE OF DRAWING
 NHYOD H.BAK IRRIGATION
 PROFILE OF MAIN CANAL
 LMC (2/2)
 DRAWING No. I - 18



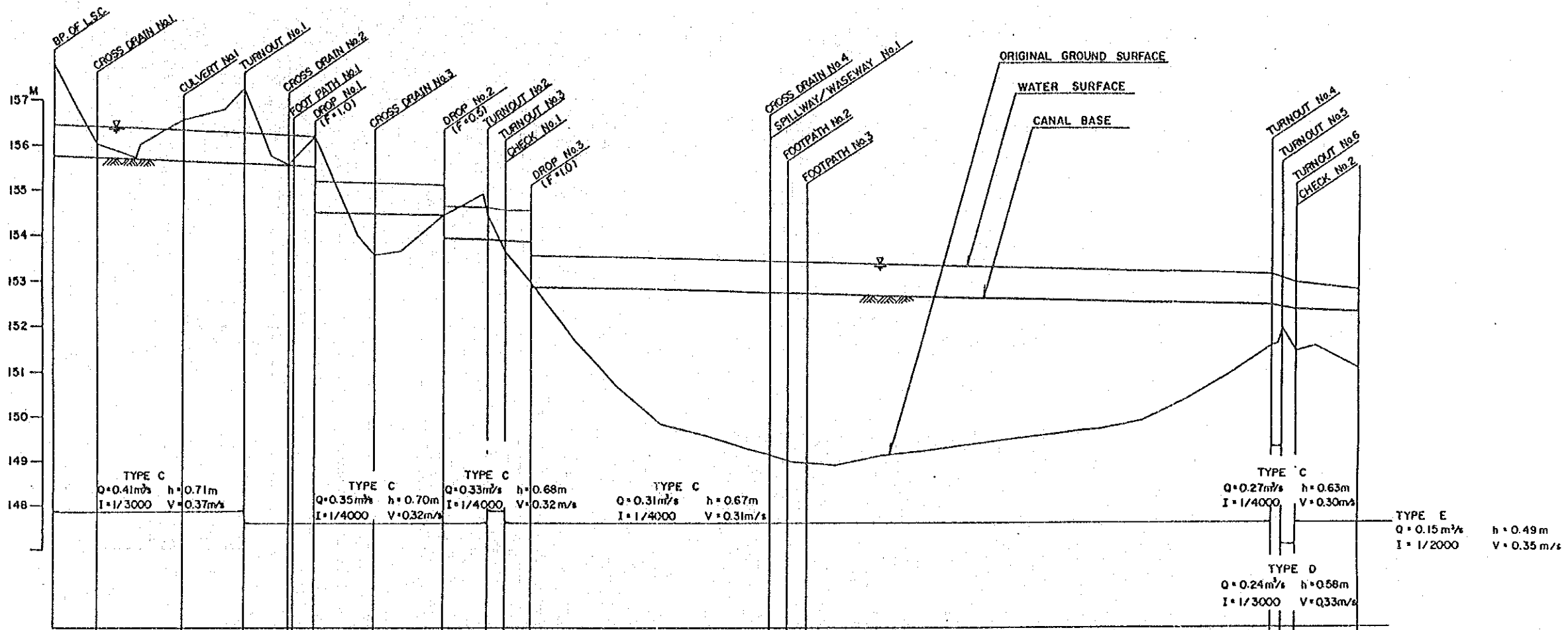
TITLE OF DRAWING
 NHYOD H.BAK IRRIGATION
 PROFILE OF MAIN CANAL
 RMC (1/2)
 DRAWING No. I - 19



WATER SURFACE ELEVATION	CANAL BASE ELEVATION	ORIGINAL GROUND SURFACE	ACCUMULATED DISTANCE	DISTANCE	STATION	CURVE
159.81	158.83	159.76	300000	100.00	No. 30	
159.79	158.81	159.85	300000	100.00	No. 31	
159.78	158.80	159.83	312400	24.00	No. 31+24	
159.76	158.78	159.33	320000	76.00	No. 32	
159.74	158.76	158.42	330000	100.00	No. 33	
159.71	158.73	157.88	340000	100.00	No. 34	
159.70	158.72	157.70	345000	50.00	No. 34+50	
159.69	158.71	157.72	350000	50.00	No. 35	
159.65	158.68	159.13	350000	100.00	No. 36	
159.66	158.68	159.13	351800	18.00	No. 36+18	
159.64	158.66	159.62	370000	82.00	No. 37	
159.61	158.63	159.64	378700	87.00	No. 37+87	
159.61	158.63	158.88	380000	13.00	No. 38	
159.59	158.61	158.78	386000	80.00	No. 39	
159.59	158.61	158.75	390000	20.00	No. 39	
159.58	158.60	159.52	393500	35.00	No. 39+35	
159.56	158.58	157.67	400000	65.00	No. 40	
159.54	158.56	158.43	410000	100.00	No. 41	
159.51	158.53	159.37	420000	100.00	No. 42	
159.49	158.51	159.06	430000	100.00	No. 43	
159.47	158.49	159.00	435400	54.00	No. 43+54	
159.46	158.48	158.68	440000	46.00	No. 44	
159.44	158.46	158.95	449400	94.00	No. 44+94	
159.44	158.46	159.00	450000	16.00	No. 45	
159.42	158.44	159.00	456300	69.00	No. 45+69	
159.41	158.43	159.88	460000	31.00	No. 46	
159.39	158.41	161.25	470000	100.00	No. 47	
159.36	158.38	162.00	480000	100.00	No. 48	
159.35	158.37	162.12	483500	35.00	No. 48+35	
159.31	158.33	159.40	488000	55.00	No. 49	
159.31	158.33	159.40	490000	20.00	No. 49	
159.30	158.33	161.70	492000	20.00	No. 49+20	
159.29	158.32	161.33	496000	40.00	No. 50	
159.28	158.31	161.00	498400	24.00	No. 50+24	

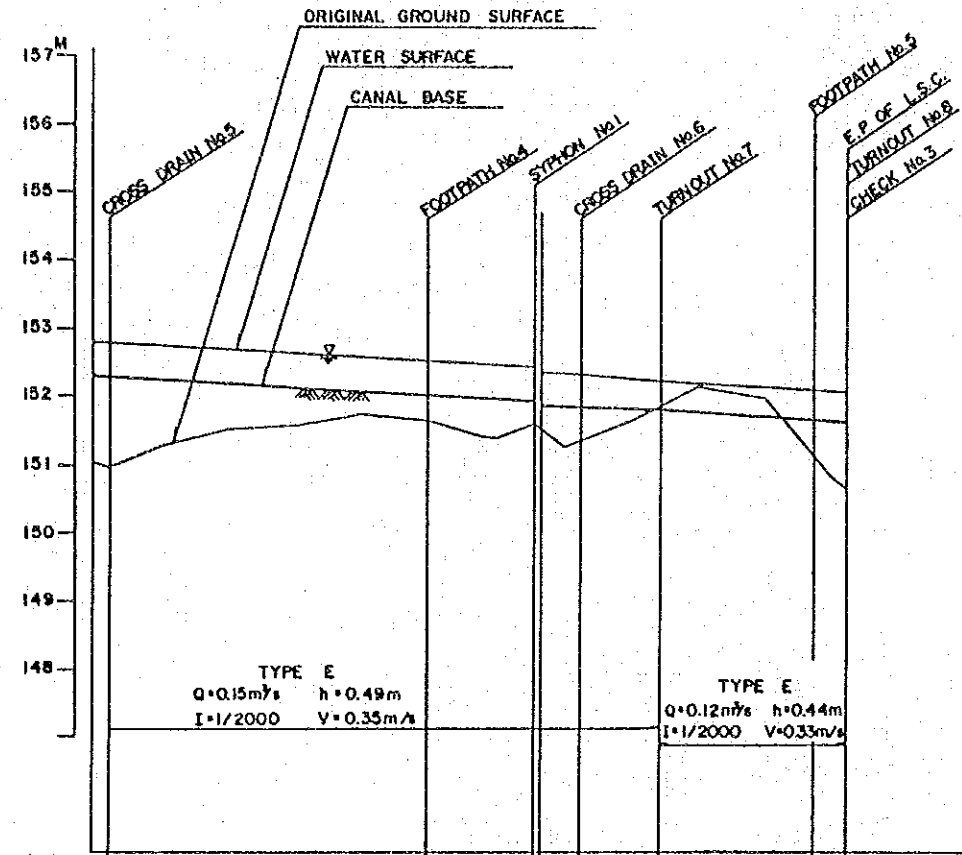
TITLE OF DRAWING
 NHYOD H.BAK IRRIGATION
 PROFILE OF MAIN CANAL
 RMC (2/2)

DRAWING No. I - 20



STATION	DISTANCE	ACCUMULATED DISTANCE	ORIGINAL GROUND SURFACE	CANAL BASE ELEVATION	WATER SURFACE ELEVATION
No. 0	000.00	000.00	157.80	155.74	156.45
No. 1	100.00	100.00	156.00	155.71	156.42
No. 2	92.00	192.00	155.73	155.68	156.39
No. 3	8.00	200.00	156.00	155.68	156.39
No. 4	100.00	300.00	156.55	155.64	156.35
No. 5	100.00	400.00	156.80	155.61	156.32
No. 6	42.00	442.00	157.24	155.59	156.30
No. 7	58.00	500.00	156.78	155.55	156.25
No. 8	40.00	540.00	155.57	155.54	156.24
No. 9	12.00	552.00	155.70	155.54	156.24
No. 10	48.00	600.00	156.18	155.52	156.22
No. 11	100.00	700.00	154.00	154.49	155.19
No. 12	40.00	740.00	153.99	154.48	155.18
No. 13	60.00	800.00	153.66	154.46	155.16
No. 14	100.00	900.00	154.43	154.43	155.15
No. 15	88.00	988.00	154.90	154.90	155.15
No. 16	12.00	1000.00	154.45	154.90	155.15
No. 17	42.00	1042.00	153.63	154.88	155.13
No. 18	58.00	1100.00	152.94	154.85	155.12
No. 19	100.00	1200.00	151.72	152.83	153.50
No. 20	100.00	1300.00	150.71	152.80	153.47
No. 21	100.00	1400.00	149.52	152.75	153.43
No. 22	100.00	1500.00	148.57	152.75	153.42
No. 23	100.00	1600.00	148.26	152.75	153.40
No. 24	52.00	1652.00	148.14	152.72	153.39
No. 25	38.00	1690.00	148.00	152.71	153.38
No. 26	10.00	1700.00	148.99	152.71	153.38
No. 27	35.00	1735.00	148.95	152.70	153.37
No. 28	65.00	1800.00	148.90	152.68	153.35
No. 29	100.00	1900.00	148.10	152.65	153.32
No. 30	100.00	2000.00	149.22	152.63	153.30
No. 31	100.00	2100.00	149.35	152.60	153.27
No. 32	100.00	2200.00	149.48	152.58	153.25
No. 33	100.00	2300.00	149.61	152.55	153.22
No. 34	75.00	2375.00	149.71	152.54	153.21
No. 35	25.00	2400.00	149.72	152.53	153.20
No. 36	100.00	2500.00	149.93	152.51	153.18
No. 37	100.00	2600.00	150.38	152.48	153.15
No. 38	100.00	2700.00	150.93	152.46	153.13
No. 39	100.00	2800.00	151.56	152.44	153.11
No. 40	47.00	2847.00	151.56	152.42	153.09
No. 41	27.00	2874.00	151.56	152.40	153.07
No. 42	27.00	2901.00	151.56	152.38	153.05
No. 43	27.00	2928.00	151.56	152.36	153.03
No. 44	47.00	2975.00	151.56	152.34	153.01
No. 45	100.00	3075.00	151.06	152.29	152.78

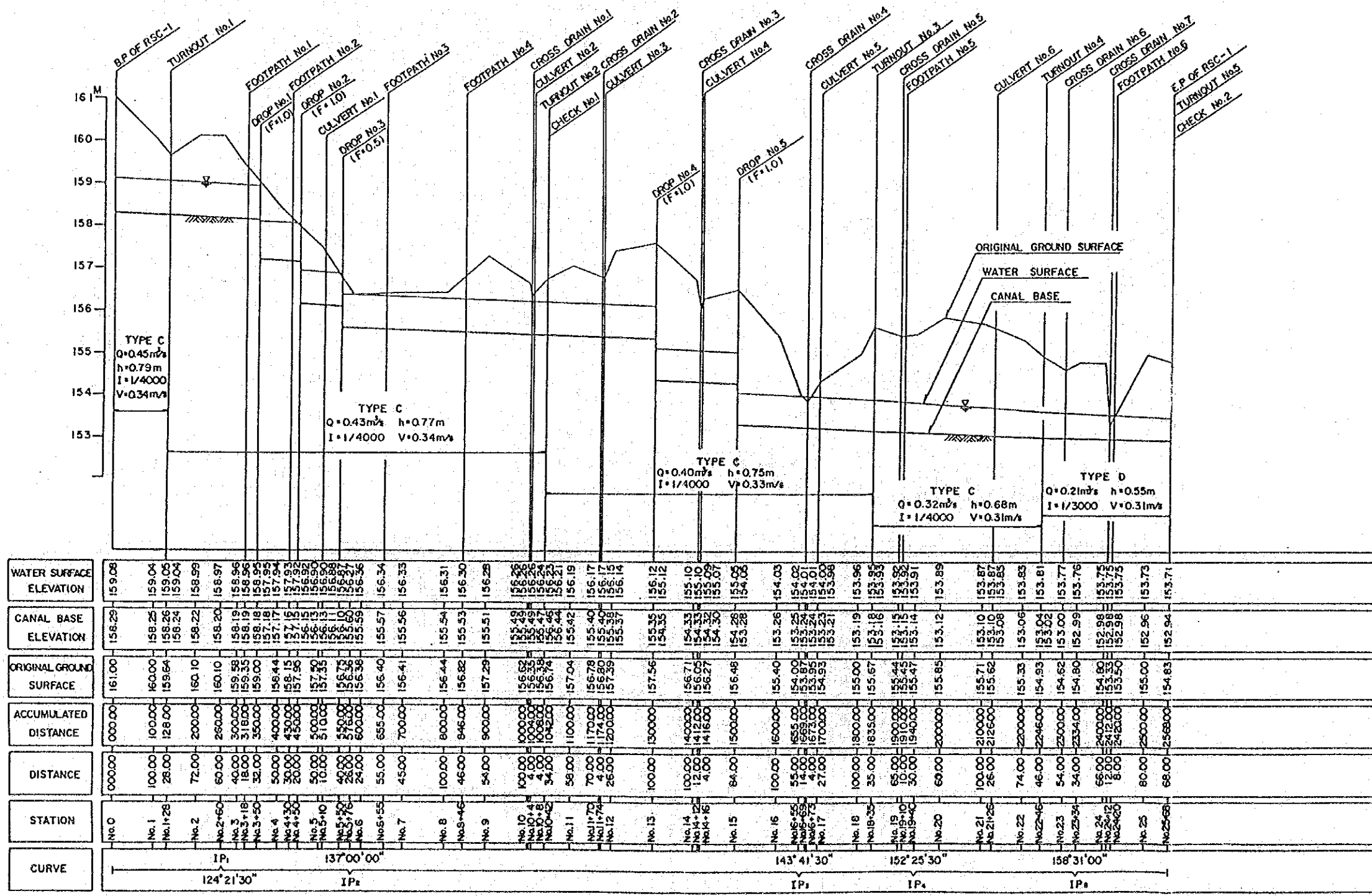
TITLE OF DRAWING
 NHYOD H. BAK IRRIGATION
 PROFILE OF SECONDARY CANAL
 LSC (1/2)
 DRAWING No. I - 21



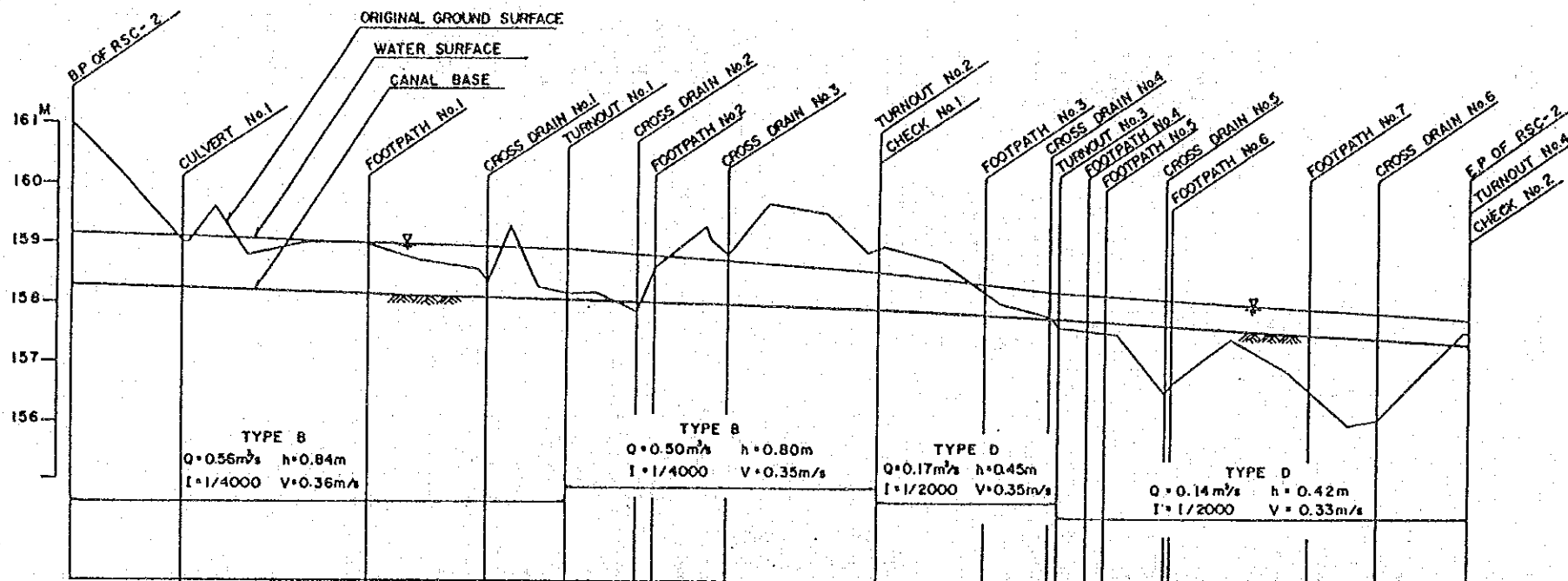
WATER SURFACE ELEVATION	152.76 152.75	152.72	152.67	152.62	152.57	152.52	152.48	152.46	152.43	152.36	152.34	152.32	152.29	152.27	152.20	152.08	152.07	152.06	
CANAL BASE ELEVATION	152.27 152.26	152.23	152.18	152.13	152.08	152.03	151.99	151.97	151.94	151.87	151.85	151.83	151.80	151.78	151.76	151.64	151.63	151.62	
ORIGINAL GROUND SURFACE	151.06 150.98	151.28	151.31	151.56	151.75	151.64	151.44	151.41	151.60	151.50	151.25	151.17	151.63	151.90	152.20	151.12	150.83	150.84	
ACCUMULATED DISTANCE	0000.00 2000.00	3400.00	3800.00	5300.00	6400.00	8000.00	8780.00	8900.00	9556.00	9656.00	9700.00	9725.00	9900.00	9945.00	9990.00	10000.00	10074.00	10100.00	10126.00
DISTANCE	100.00 20.00	75.00	100.00	100.00	100.00	100.00	78.00	22.00	56.00	10.00	34.00	23.00	75.00	45.00	55.00	100.00	74.00	26.00	26.00
STATION	No. 30 No. 30+25	No. 31	No. 32	No. 33	No. 34	No. 35	No. 35+78	No. 36	No. 36+56	No. 36+66	No. 37	No. 37+25	No. 38	No. 38+45	No. 39	No. 40	No. 40+74	No. 41	No. 41+26
CURVE	129° 18' 30" IPs																		

TITLE OF DRAWING
NHYOD H.BAK IRRIGATION
PROFILE OF SECONDARY CANAL
LSC (2/2)

DRAWING No. I - 22



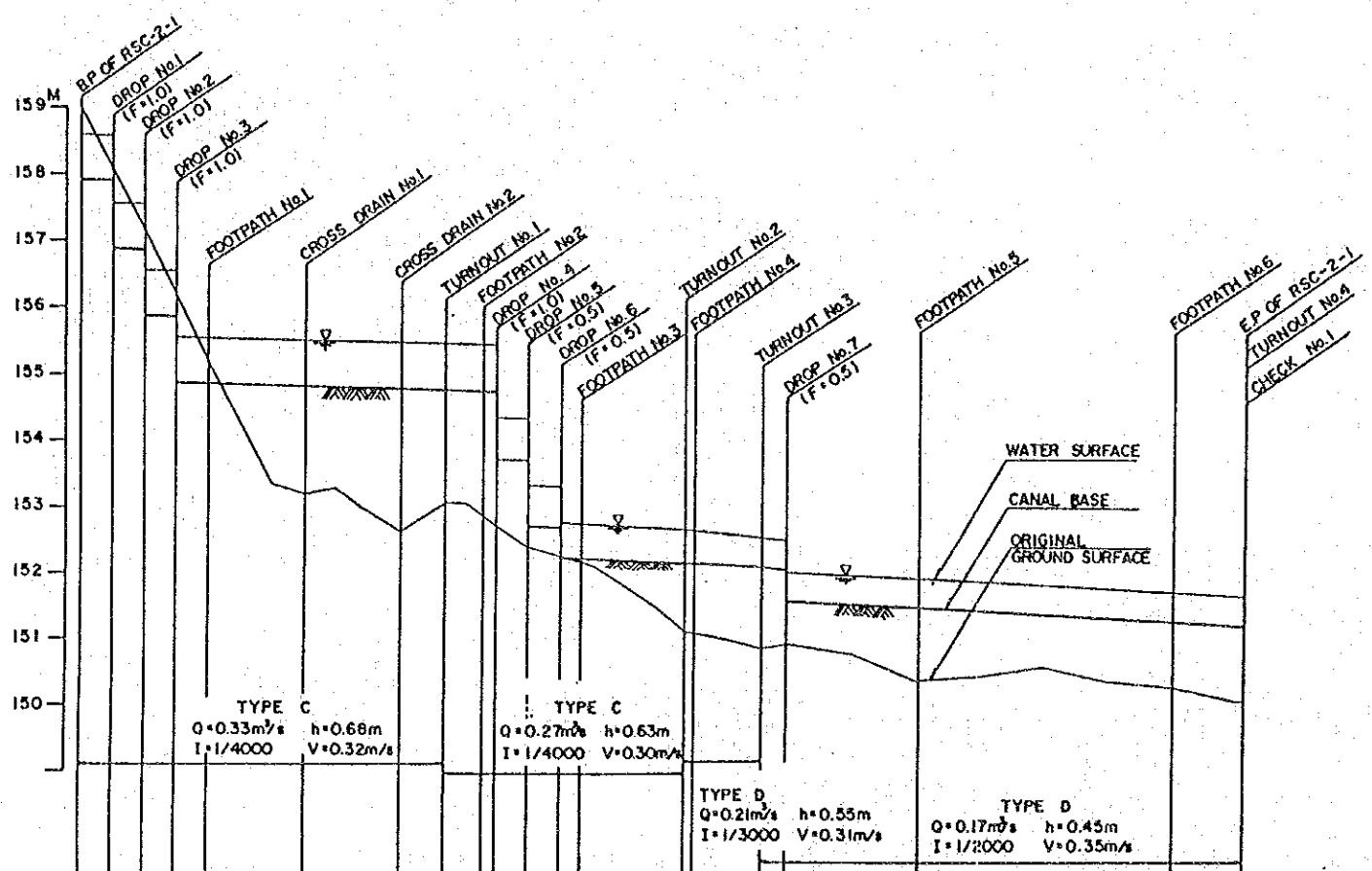
TITLE OF DRAWING
 NHYOD H.BAK IRRIGATION
 PROFILE OF SECONDARY CANAL
 RSC - I
 DRAWING No. I - 23



STATION	DISTANCE	ACCUMULATED DISTANCE	ORIGINAL GROUND SURFACE	CANAL BASE ELEVATION	WATER SURFACE ELEVATION
No. 0	000.00	000.00	161.00	158.29	159.13
No. 1	100.00	100.00	160.00	158.27	159.11
No. 1-90	90.00	190.00	159.00	158.24	159.08
No. 2	100.00	200.00	159.00	158.22	159.06
No. 2-45	45.00	245.00	159.60	158.21	159.05
No. 3	55.00	300.00	158.79	158.20	159.04
No. 4	100.00	400.00	159.00	158.17	159.01
No. 5	100.00	500.00	159.00	158.15	158.99
No. 5-10	10.00	510.00	158.97	158.15	158.99
No. 6	90.00	600.00	158.71	158.12	158.96
No. 7-15	13.00	709.00	158.85	158.10	158.94
No. 7-15	13.00	712.00	158.83	158.10	158.94
No. 7-56	41.00	753.00	159.27	158.08	158.92
No. 8	44.00	800.00	158.25	158.07	158.91
No. 8-50	50.00	850.00	158.16	158.06	158.90
No. 9	50.00	900.00	158.15	158.04	158.84
No. 9-70	70.00	970.00	158.85	158.01	158.81
No. 9-93	23.00	993.00	158.65	158.01	158.81
No. 10	7.00	1000.00	158.61	158.00	158.80
No. 10-90	90.00	1090.00	158.33	157.98	158.78
No. 11	100.00	1190.00	158.08	157.98	158.78
No. 12	72.00	1200.00	158.82	157.97	158.77
No. 12	72.00	1200.00	159.67	157.95	158.75
No. 13	100.00	1300.00	158.51	157.93	158.73
No. 13-75	75.00	1375.00	158.96	157.92	158.72
No. 14	12.00	1400.00	158.96	157.91	158.71
No. 14	12.00	1400.00	158.96	157.89	158.69
No. 15	100.00	1500.00	158.70	157.84	158.29
No. 15-74	74.00	1574.00	158.20	157.81	158.26
No. 16	26.00	1600.00	158.00	157.79	158.24
No. 16	26.00	1600.00	158.00	157.77	158.22
No. 17	96.00	1696.00	157.60	157.75	158.21
No. 17	96.00	1696.00	157.60	157.74	158.20
No. 17-50	50.00	1750.00	157.55	157.72	158.14
No. 17-80	30.00	1780.00	157.52	157.69	158.11
No. 18	20.00	1800.00	157.50	157.68	158.10
No. 18	20.00	1800.00	157.50	157.67	158.09
No. 18-98	98.00	1898.00	156.50	157.64	158.06
No. 19	10.00	1908.00	156.53	157.63	158.05
No. 19	10.00	1908.00	156.53	157.62	158.04
No. 20	100.00	2000.00	157.43	157.57	157.99
No. 21	100.00	2100.00	156.89	157.52	157.94
No. 21-32	32.00	2132.00	156.55	157.50	157.92
No. 22	68.00	2200.00	155.97	157.47	157.89
No. 22-50	50.00	2250.00	156.04	157.44	157.86
No. 23	90.00	2300.00	156.59	157.42	157.84
No. 24	100.00	2400.00	157.55	157.37	157.79
No. 24-10	10.00	2410.00	157.55	157.36	157.78

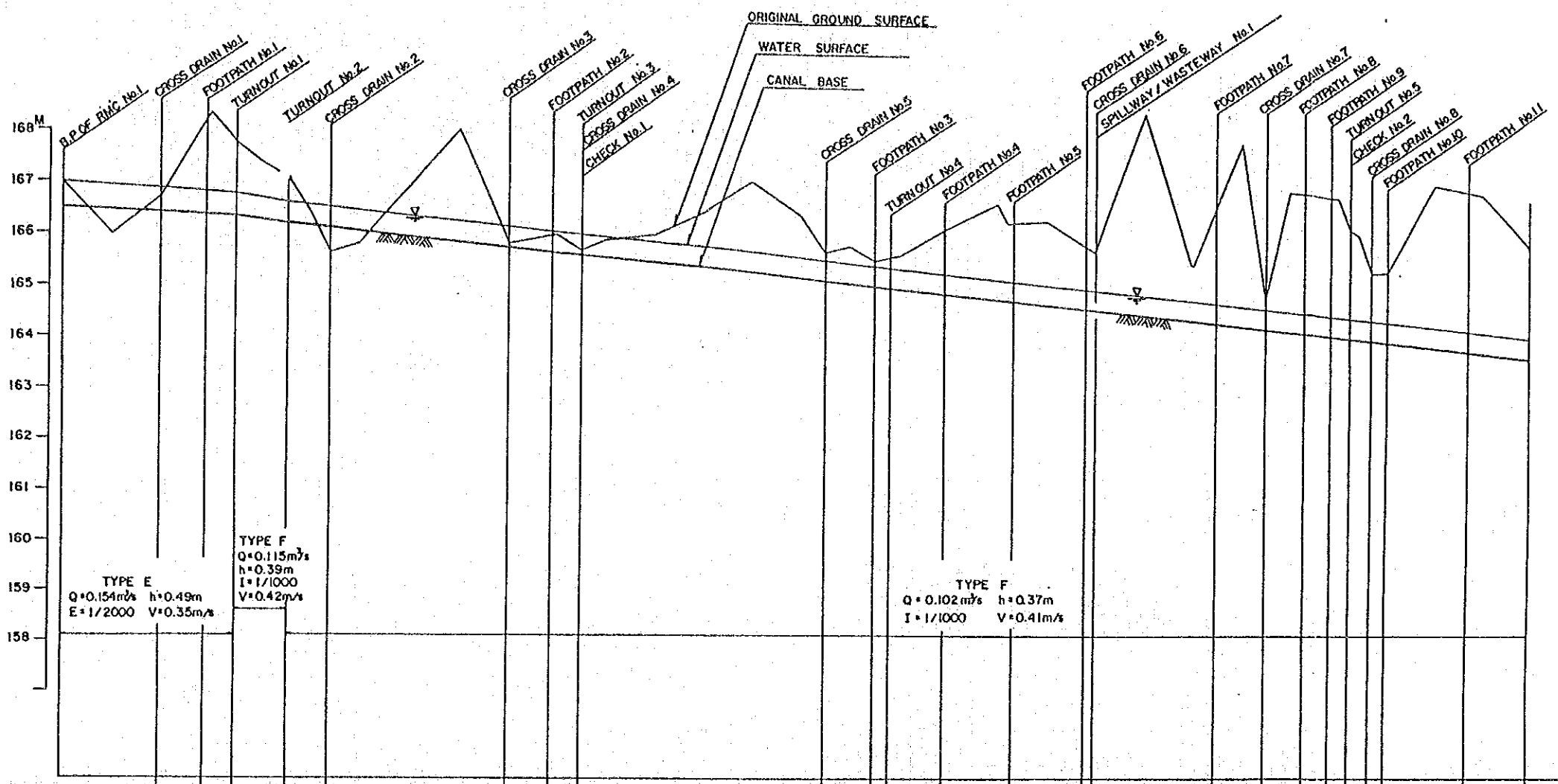
TITLE OF DRAWING
 'NHYOD H.BAK IRRIGATION
 PROFILE OF SECONDARY CANAL
 RSC - 2

DRAWING No. I - 24

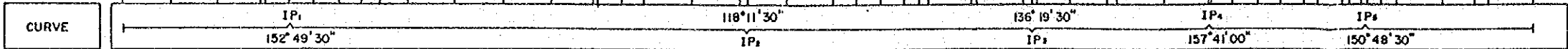


WATER SURFACE ELEVATION	158.57	157.56	157.55	156.54	155.53	155.50	155.49	155.48	155.47	155.45	154.78	152.78	151.95	151.90	151.85	151.80	151.75	151.70	151.65	
CANAL BASE ELEVATION	157.89	156.88	155.87	154.86	153.85	154.82	154.81	154.80	154.79	154.77	152.15	152.14	151.50	151.45	151.40	151.35	151.30	151.25	151.20	
ORIGINAL GROUND SURFACE	159.00	158.10	157.17	156.20	155.22	153.33	153.20	153.28	153.00	152.03	151.43	151.09	150.78	150.40	150.43	150.57	150.56	150.51	150.08	
ACCUMULATED DISTANCE	000.00	50.00	100.00	150.00	200.00	300.00	350.00	400.00	436.00	500.00	570.00	600.00	650.00	700.00	750.00	780.00	800.00	900.00	940.00	
DISTANCE	000.00	50.00	50.00	50.00	50.00	100.00	50.00	36.00	64.00	70.00	15.00	30.00	20.00	50.00	30.00	20.00	100.00	40.00	1.50	
STATION	No.0	No.0+50	No.1	No.1+50	No.2	No.3	No.3+50	No.4	No.4+36	No.5	No.5+70	No.6	No.6+30	No.7	No.7+50	No.7+80	No.8	No.9	No.9+40	
CURVE	<p>155° 51' 00" IP₁</p> <p>158° 01' 30"</p>																			

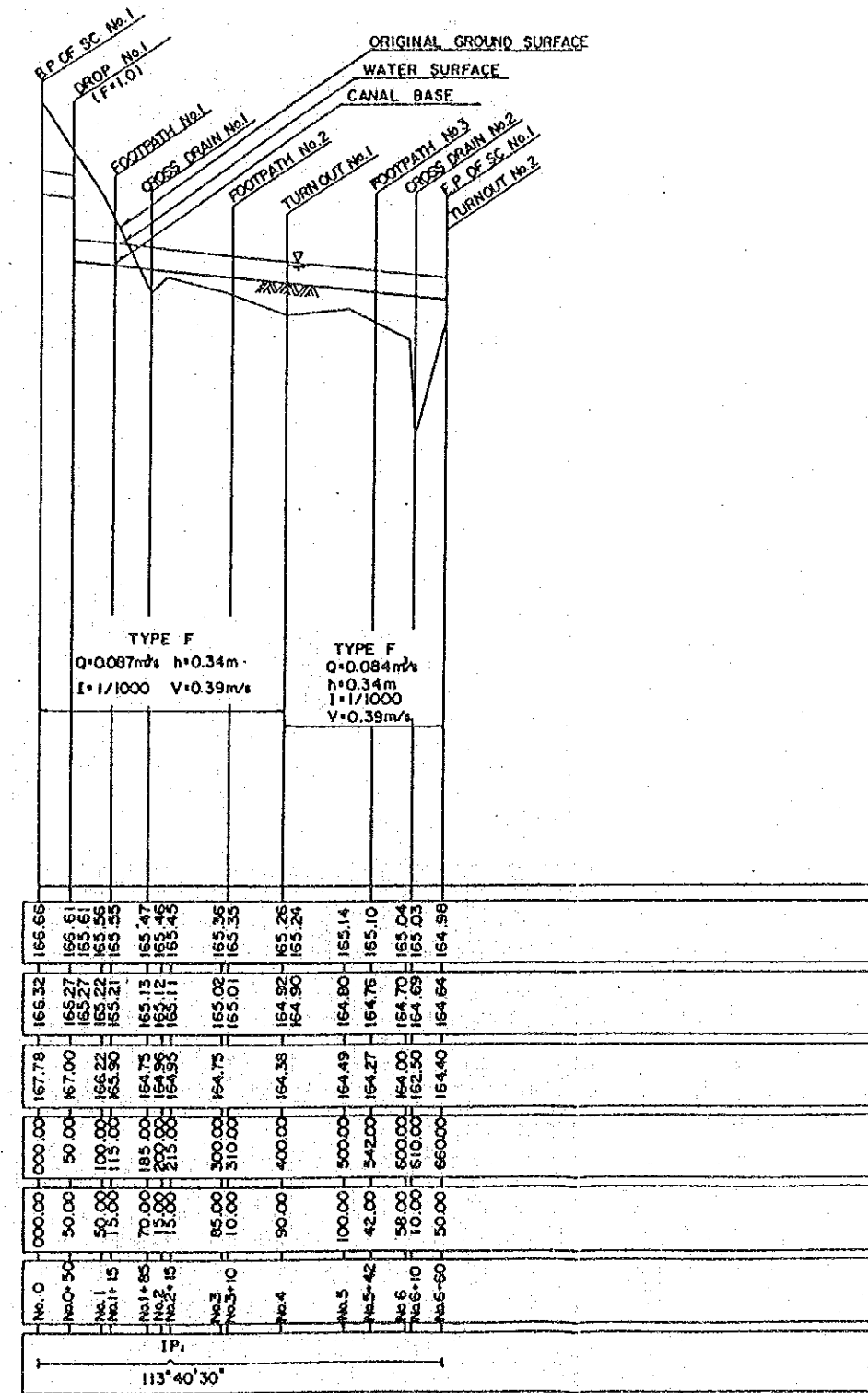
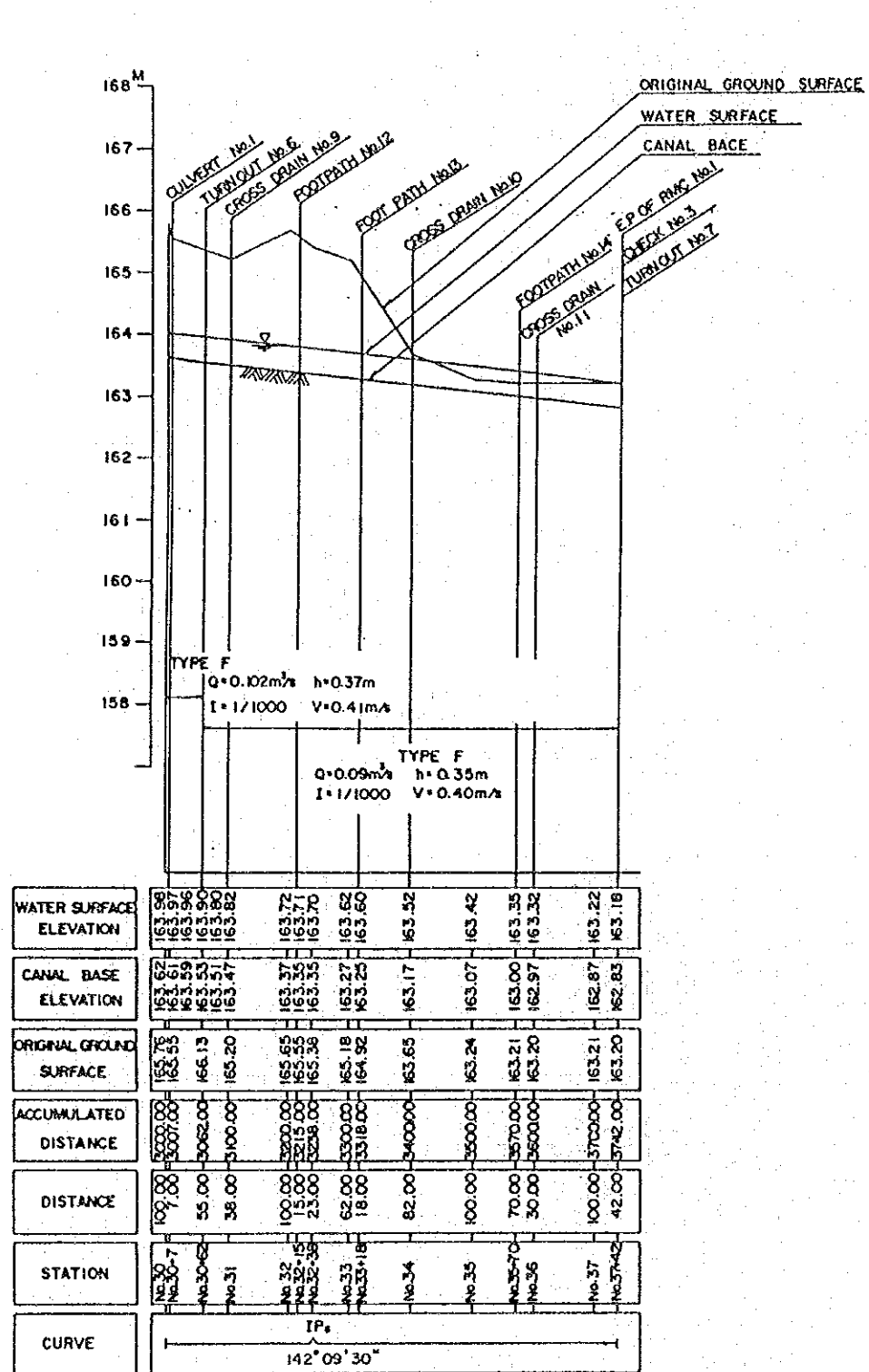
TITLE OF DRAWING
 NHYOD H.BAK IRRIGATION
 PROFILE OF SECONDARY
 CANAL RSC-2-1
 DRAWING No. I-25



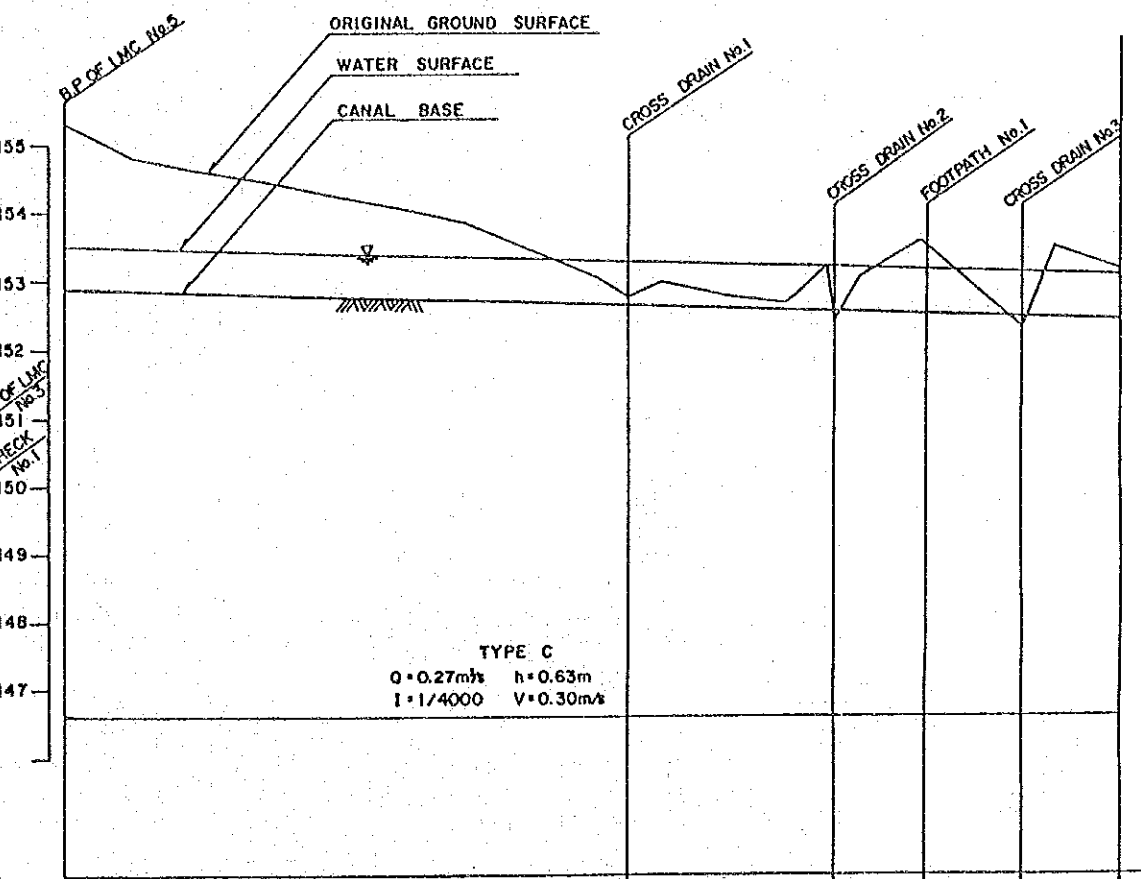
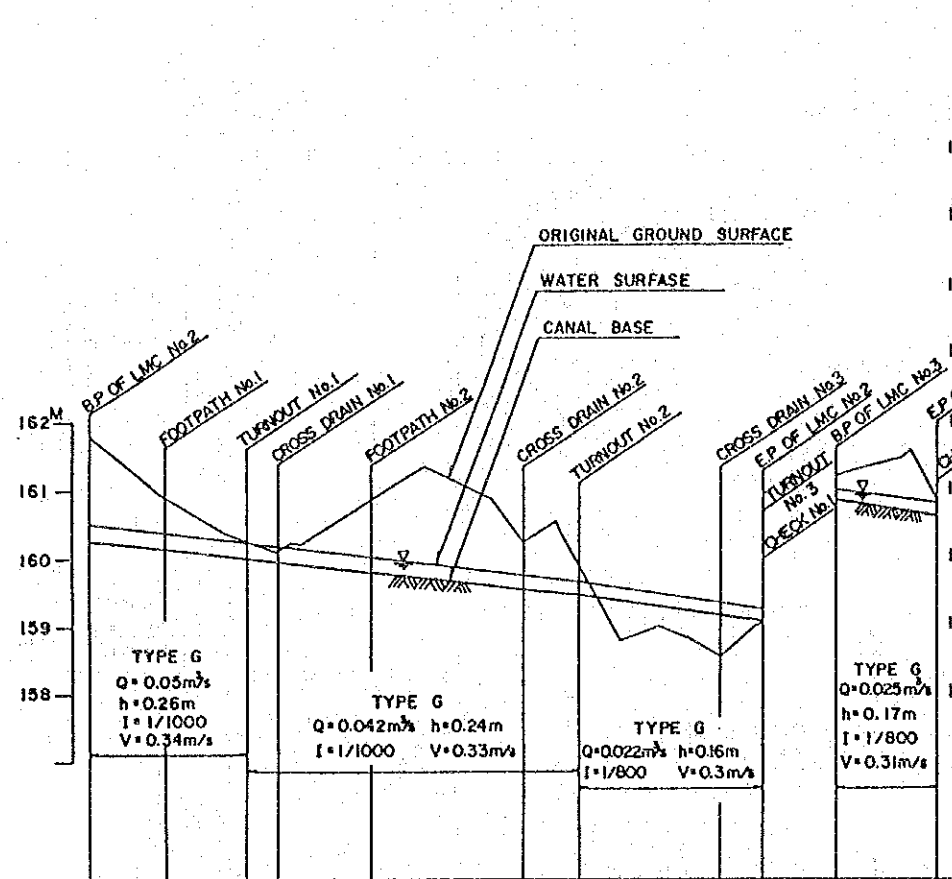
STATION	DISTANCE	ACCUMULATED DISTANCE	ORIGINAL GROUND SURFACE	CANAL BASE ELEVATION	WATER SURFACE ELEVATION
No. 0	000.00	000.00	167.00	166.51	167.00
No. 1	100.00	100.00	165.00	166.46	166.88
No. 2	100.00	200.00	166.71	166.41	166.83
No. 2+90	90.00	290.00	168.20	166.37	166.79
No. 3	10.00	280.00	166.55	166.36	166.78
No. 3+50	50.00	330.00	167.78	166.34	166.83
No. 4	50.00	400.00	167.28	166.27	166.69
No. 4+55	55.00	455.00	167.11	166.23	166.62
No. 5	45.00	500.00	166.39	166.21	166.81
No. 5+40	40.00	540.00	165.65	166.13	166.55
No. 6	60.00	600.00	165.82	166.07	166.49
No. 7	100.00	700.00	166.41	165.97	166.39
No. 8	100.00	800.00	167.52	165.87	166.29
No. 9	100.00	900.00	165.83	165.77	166.19
No. 9+90	90.00	990.00	165.97	165.68	166.10
No. 10	10.00	1000.00	166.00	165.67	166.09
No. 10+50	50.00	1050.00	165.69	165.62	166.00
No. 11	50.00	1100.00	165.77	165.53	165.95
No. 12	100.00	1200.00	165.98	165.43	165.85
No. 13	100.00	1300.00	166.38	165.33	165.75
No. 13+15	15.00	1315.00	166.47	165.32	165.74
No. 14	85.00	1400.00	166.96	165.23	165.65
No. 15	100.00	1500.00	166.34	165.13	165.55
No. 15+51	51.00	1551.00	165.64	165.08	165.50
No. 16	49.00	1600.00	165.75	165.03	165.45
No. 16+50	50.00	1650.00	165.48	164.98	165.40
No. 16+80	80.00	1730.00	165.55	164.97	165.34
No. 17	20.00	1750.00	165.59	164.94	165.32
No. 17+90	90.00	1840.00	166.05	164.93	165.21
No. 18	10.00	1850.00	166.12	164.84	165.20
No. 19	100.00	1950.00	166.58	164.73	165.10
No. 19+20	20.00	1970.00	166.21	164.71	165.08
No. 19+30	30.00	1980.00	166.23	164.70	165.07
No. 20	70.00	2050.00	166.25	164.63	165.00
No. 20+80	80.00	2130.00	165.75	164.55	164.92
No. 21	20.00	2150.00	165.64	164.53	164.90
No. 22	100.00	2250.00	168.33	164.43	164.80
No. 22+95	95.00	2345.00	165.40	164.33	164.70
No. 23	4.00	2350.00	164.33	164.33	164.70
No. 23+45	45.00	2395.00	166.45	164.28	164.65
No. 24	54.00	2450.00	167.75	164.23	164.60
No. 24+50	50.00	2500.00	164.75	164.18	164.55
No. 25	50.00	2550.00	166.80	164.13	164.50
No. 25+30	30.00	2580.00	166.75	164.10	164.47
No. 25+60	60.00	2640.00	166.70	164.04	164.41
No. 25+90	90.00	2730.00	166.69	164.03	164.40
No. 26	14.00	2744.00	166.71	164.01	164.38
No. 26+50	50.00	2794.00	166.00	163.98	164.35
No. 26+80	80.00	2874.00	165.25	163.95	164.32
No. 27	32.00	2906.00	165.27	163.92	164.29
No. 28	100.00	3000.00	166.95	163.82	164.19
No. 28+68	68.00	3068.00	166.82	163.75	164.12
No. 29	32.00	3100.00	166.76	163.72	164.09
No. 30	100.00	3200.00	165.76	163.62	163.98



TITLE OF DRAWING
 NAMPHOU IRRIGATION
 PROFILE OF MAIN CANAL
 RMC No.1(1/2)
 DRAWING No. I - 26



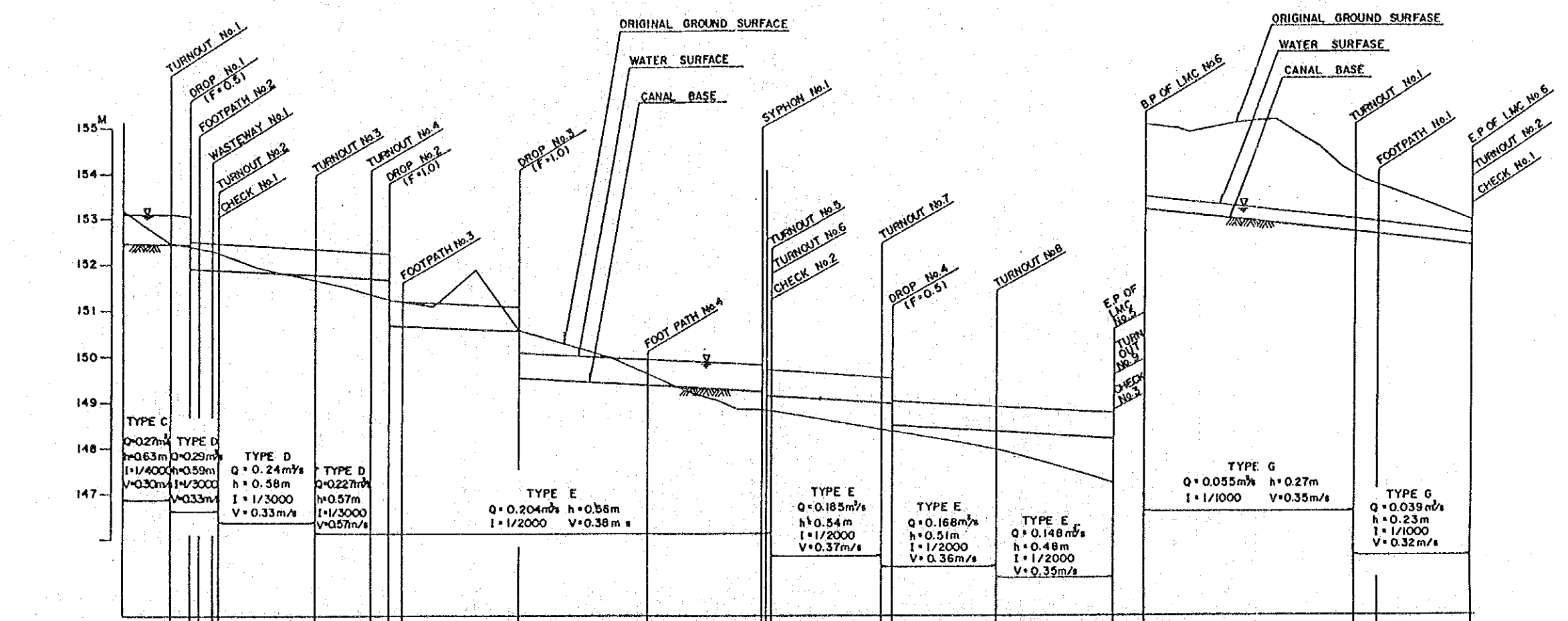
TITLE OF DRAWING
 NAMPHOU IRRIGATION PROFILE
 OF MAIN & SECONDARY CANAL
 RMC No.1(2/2), SC No.1
 DRAWING No. 1 - 27



	No.0	No.1	No.1+10	No.2	No.2+35	No.3	No.3+80	No.3+14	No.4	No.4+20	No.5	No.6	No.6+50	No.7	No.7+6	No.7+36	No.8	No.8+60	No.9	No.9+50	No.10	No.10+14	No.11	No.11+12	No.11+56			
WATER SURFACE ELEVATION	160.50	160.40	160.39	160.30	160.26	160.24	160.19	160.16	160.07	160.05	159.97	159.87	159.82	159.77	159.76	159.74	159.62	159.53	159.45	159.40	159.34	159.28	159.27	161.00	160.87	160.85	160.80	
CANAL BASE ELEVATION	160.24	160.14	160.13	160.04	160.00	160.00	159.93	159.90	159.81	159.79	159.71	159.61	159.56	159.51	159.50	159.48	159.46	159.37	159.29	159.24	159.18	159.12	159.11	159.08	160.83	160.70	160.68	160.63
ORIGINAL GROUND SURFACE	161.79	160.94	160.88	160.37	160.25	160.10	160.23	160.21	160.74	160.85	161.35	160.90	160.26	160.56	160.56	159.90	158.81	159.00	158.66	158.59	159.00	159.08	161.23	161.49	161.57	161.57	160.82	
ACCUMULATED DISTANCE	000.00	100.00	110.00	200.00	235.00	280.00	300.00	314.00	400.00	420.00	500.00	600.00	650.00	700.00	736.00	800.00	860.00	900.00	950.00	1000.00	1014.00	1014.00	1014.00	1014.00	1014.00	1014.00	1014.00	1014.00
DISTANCE	000.00	100.00	10.00	50.00	35.00	45.00	20.00	14.00	86.00	20.00	80.00	100.00	50.00	50.00	30.00	64.00	60.00	40.00	50.00	50.00	50.00	4.00	000.00	100.00	112.00	112.00	112.00	112.00
STATION	No.0	No.1	No.1+10	No.2	No.2+35	No.3	No.3+80	No.3+14	No.4	No.4+20	No.5	No.6	No.6+50	No.7	No.7+6	No.7+36	No.8	No.8+60	No.9	No.9+50	No.10	No.10+14	No.11	No.11+12	No.11+56			
CURVE	IP ₁		152° 48' 30"		IP ₂		157° 25' 00"		IP ₃		158° 30' 00"		IP ₄		148° 39' 30"		IP ₅		IP ₆		IP ₇		IP ₈		IP ₉		IP ₁₀	

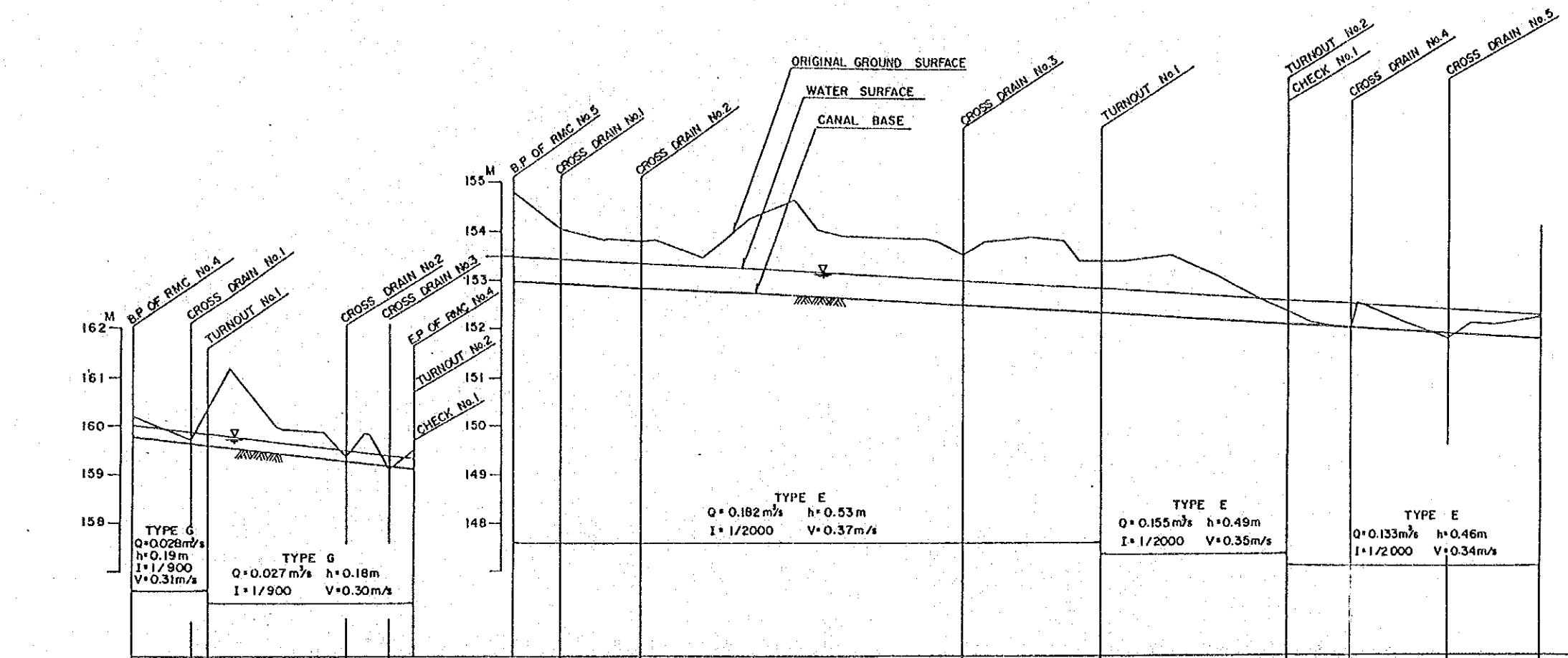
	No.0	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.7+77	No.8	No.8+50	No.9	No.10	No.10+85	No.11	No.11+50	No.12	No.12+97	No.13	No.13+5	No.14	No.14+50	No.15	No.16	
WATER SURFACE ELEVATION	153.50	153.47	153.45	153.42	153.40	153.37	153.35	153.32	153.31	153.30	153.29	153.27	153.25	153.25	153.23	153.22	153.21	153.21	153.17	153.17	153.17	153.15	153.13	153.12	153.10
CANAL BASE ELEVATION	152.97	152.84	152.82	152.79	152.77	152.74	152.72	152.69	152.68	152.67	152.66	152.64	152.62	152.62	152.60	152.59	152.58	152.58	152.54	152.54	152.54	152.52	152.50	152.49	152.47
ORIGINAL GROUND SURFACE	155.30	154.80	154.62	154.47	154.27	154.09	153.86	153.46	153.16	153.06	152.79	153.00	152.80	152.80	152.70	152.80	153.24	152.45	153.58	153.58	153.50	152.73	152.35	153.51	153.18
ACCUMULATED DISTANCE	000.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	777.00	800.00	850.00	900.00	1000.00	1085.00	1100.00	1150.00	1160.00	1200.00	1297.00	1300.00	1305.00	1400.00	1450.00	1500.00	1600.00
DISTANCE	000.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	77.00	23.00	50.00	50.00	100.00	85.00	15.00	50.00	40.00	97.00	3.00	5.00	95.00	50.00	50.00	100.00	
STATION	No.0	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.7+77	No.8	No.8+50	No.9	No.10	No.10+85	No.11	No.11+50	No.12	No.12+97	No.13	No.13+5	No.14	No.14+50	No.15	No.16	
CURVE	IP ₁		164° 20' 30"		IP ₂		158° 08' 30"		IP ₃		152° 15' 30"		IP ₄		IP ₅		IP ₆		IP ₇		IP ₈		IP ₉		

TITLE OF DRAWING
 NAMPHOU IRRIGATION
 PROFILE OF MAIN CANAL
 LMC No.2, LMC No.3, LMC No.5(1/2)
 DRAWING No. I - 28



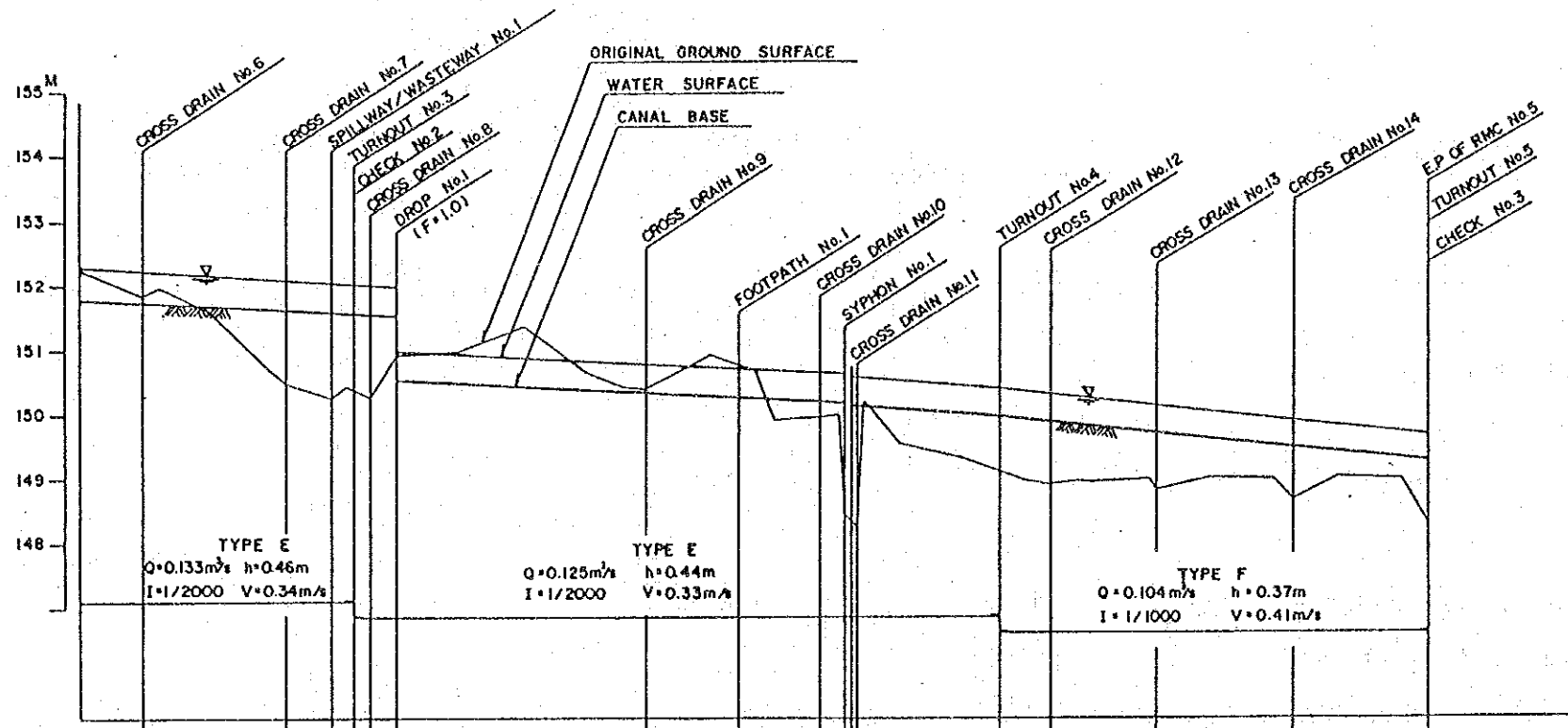
STATION	DISTANCE	ACCUMULATED DISTANCE	ORIGINAL GROUND SURFACE	CANAL BASE ELEVATION	WATER SURFACE ELEVATION
No. 16	100.00	1000.00	153.18	152.47	153.10
No. 17	100.00	2000.00	152.46	152.44	153.07
No. 17.5	50.00	2500.00	152.45	152.44	153.07
No. 18	100.00	3500.00	152.38	152.35	153.00
No. 18.5	50.00	4000.00	152.38	152.35	153.00
No. 19	100.00	5000.00	152.24	152.21	152.84
No. 20	100.00	6000.00	151.95	151.83	152.41
No. 20.5	50.00	6500.00	151.73	151.80	152.38
No. 21	100.00	7500.00	151.67	151.77	152.34
No. 21.5	50.00	8000.00	151.52	151.75	152.32
No. 22	100.00	9000.00	151.40	151.77	152.30
No. 22.5	50.00	9500.00	151.23	151.75	152.28
No. 23	100.00	10500.00	151.20	150.67	151.23
No. 24	100.00	11500.00	151.10	150.63	151.19
No. 25	100.00	12500.00	151.87	150.58	151.14
No. 25.5	50.00	13000.00	150.59	150.53	151.09
No. 26	100.00	14000.00	150.49	149.51	150.07
No. 27	100.00	15000.00	150.29	149.48	150.04
No. 28	100.00	16000.00	150.00	149.43	149.99
No. 28.5	50.00	16500.00	149.62	149.39	149.95
No. 29	100.00	17500.00	149.56	149.36	149.94
No. 30	100.00	18500.00	149.04	149.33	149.89
No. 31	100.00	19500.00	148.84	149.30	149.86
No. 32	100.00	20500.00	148.84	149.28	149.84
No. 33	100.00	21500.00	148.84	149.25	149.81
No. 34	100.00	22500.00	148.78	149.21	149.77
No. 35	100.00	23500.00	148.61	149.07	149.61
No. 36	100.00	24500.00	148.45	149.02	149.56
No. 37	100.00	25500.00	148.41	148.98	149.52
No. 38	100.00	26500.00	148.35	148.94	149.47
No. 39	100.00	27500.00	148.29	148.45	149.01
No. 40	100.00	28500.00	148.12	148.40	148.96
No. 41	100.00	29500.00	148.00	148.40	148.96
No. 42	100.00	30500.00	148.00	148.35	148.91
No. 43	100.00	31500.00	148.00	148.30	148.86
No. 44	100.00	32500.00	148.00	148.30	148.86
No. 45	100.00	33500.00	148.00	148.25	148.81
No. 46	100.00	34500.00	148.00	148.22	148.78
No. 0	100.00	35000.00	153.10	153.23	153.50
No. 1	100.00	36000.00	153.02	153.15	153.42
No. 2	100.00	37000.00	152.95	153.13	153.40
No. 3	100.00	38000.00	152.95	153.03	153.30
No. 4	100.00	39000.00	152.95	152.93	153.20
No. 5	100.00	40000.00	154.63	152.83	153.10
No. 6	100.00	41000.00	154.15	152.78	153.05
No. 7	100.00	42000.00	153.89	152.75	153.02
No. 8	100.00	43000.00	153.72	152.71	152.94
No. 9	100.00	44000.00	153.51	152.68	152.91
No. 10	100.00	45000.00	153.15	152.61	152.84
No. 11	100.00	46000.00	153.15	152.51	152.74
No. 12	100.00	47000.00	153.00	152.47	152.70

TITLE OF DRAWING
 NAMPHOU IRRIGATION
 PROFILE OF MAIN CANAL
 LMC No.5 (2/2), LMC No.6
 DRAWING No. I - 29



STATION	WATER SURFACE ELEVATION	CANAL BASE ELEVATION	ORIGINAL GROUND SURFACE	ACCUMULATED DISTANCE	DISTANCE	CURVE
No. 0	160.00	159.81	160.20	000.00	000.00	
No. 1	159.89	159.70	159.78	100.00	100.00	
No. 1+20	159.87	159.68	159.71	120.00	20.00	
No. 1+55	159.83	159.64	160.40	155.00	35.00	
No. 2	159.75	159.57	161.17	200.00	45.00	
No. 3	159.64	159.46	159.97	300.00	100.00	
No. 3+14	159.62	159.44	159.92	314.00	14.00	
No. 4	159.52	159.34	159.87	400.00	86.00	
No. 4+52	159.46	159.28	159.58	452.00	52.00	
No. 4+90	159.42	159.24	159.75	493.00	39.00	
No. 5	159.41	159.23	159.71	500.00	10.00	
No. 5+42	159.36	159.18	159.14	542.00	42.00	
No. 5+90	159.32	159.14	159.42	590.00	48.00	
No. 6	153.50	152.97	154.82	600.00	10.00	
No. 7	153.45	152.92	154.05	700.00	100.00	
No. 8	153.40	152.87	153.84	800.00	95.00	
No. 9	153.36	152.83	153.80	900.00	70.00	
No. 10	153.35	152.82	153.83	1000.00	30.00	
No. 11	153.30	152.77	153.45	1100.00	95.00	
No. 12	153.30	152.77	153.45	1200.00	5.00	
No. 13	153.25	152.72	154.21	1300.00	100.00	
No. 14	153.20	152.67	154.60	1400.00	100.00	
No. 15	153.18	152.65	154.00	1500.00	50.00	
No. 16	153.15	152.62	153.89	1600.00	50.00	
No. 17	153.10	152.57	153.85	1700.00	100.00	
No. 18	153.07	152.54	153.63	1800.00	73.00	
No. 19	153.05	152.52	153.78	1900.00	27.00	
No. 20	153.03	152.50	153.62	2000.00	55.00	
No. 21	153.00	152.47	153.76	2100.00	45.00	
No. 22	152.95	152.42	153.86	2200.00	100.00	
No. 23	152.92	152.39	153.80	2300.00	68.00	
No. 24	152.90	152.37	153.39	2400.00	32.00	
No. 25	152.88	152.35	153.39	2500.00	48.00	
No. 26	152.82	152.33	153.39	2600.00	52.00	
No. 27	152.79	152.30	153.39	2700.00	52.00	
No. 28	152.74	152.25	153.50	2800.00	100.00	
No. 29	152.69	152.20	153.09	2900.00	100.00	
No. 30	152.64	152.15	152.58	3000.00	100.00	
No. 31	152.62	152.13	152.40	3100.00	50.00	
No. 32	152.57	152.11	152.57	3200.00	50.00	
No. 33	152.54	152.08	152.14	3300.00	50.00	
No. 34	152.50	152.04	152.00	3400.00	85.00	
No. 35	152.49	152.03	152.53	3500.00	15.00	
No. 36	152.44	151.96	152.15	3600.00	100.00	
No. 37	152.39	151.93	151.80	3700.00	100.00	
No. 38	152.37	151.91	152.11	3800.00	48.00	
No. 39	152.34	151.88	152.10	3900.00	52.00	
No. 40	152.29	151.83	152.24	4000.00	100.00	

TITLE OF DRAWING
 NAMPHOU IRRIGATION
 PROFILE OF MAIN CANAL
 RMC No.4, RMC No.5 (1/2)
 DRAWING No. I - 30

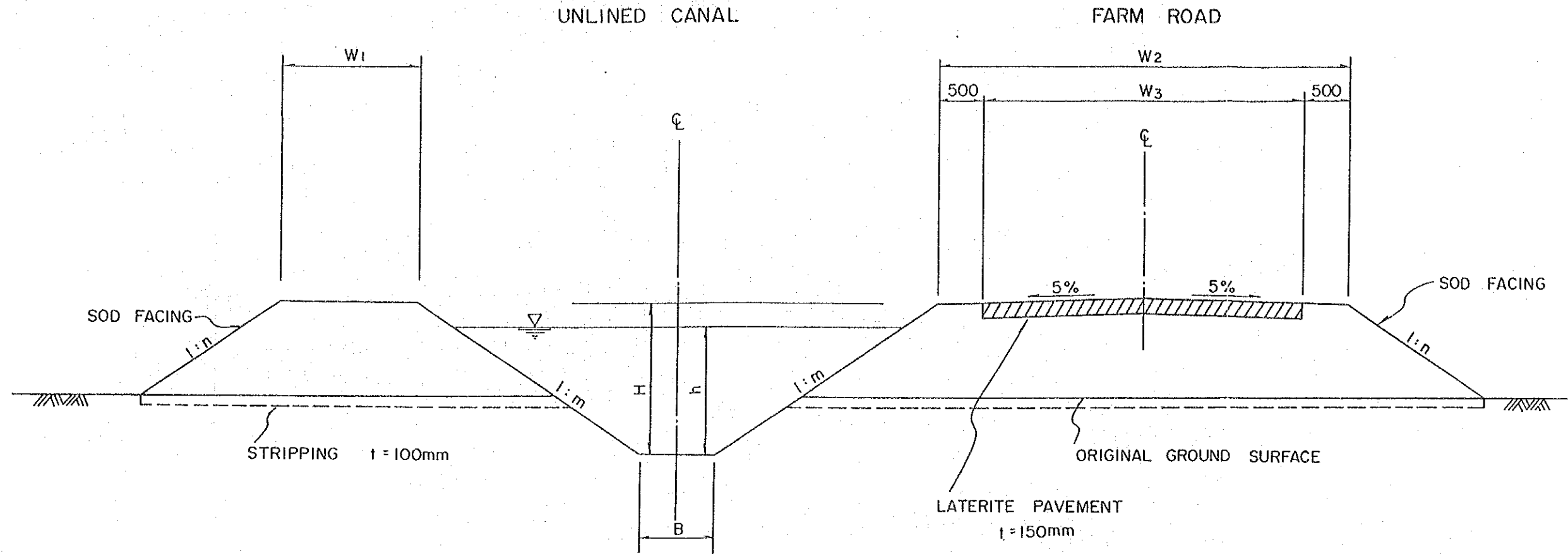


WATER SURFACE ELEVATION	152.29	152.24	152.23	152.19	152.14	152.13	152.09	152.07	152.05	152.02	151.99	151.95	150.90	150.85	150.82	150.80	150.75	150.73	150.71	150.70	150.66	150.65	150.64	150.63	150.55	150.50	150.47	150.39	150.34	150.30	150.26	150.24	150.14	150.13	150.04	149.94	149.91	149.84	149.75	149.74	149.70	
CANAL BASE ELEVATION	151.83	151.76	151.77	151.73	151.68	151.67	151.63	151.61	151.57	151.54	151.51	150.51	150.46	150.41	150.38	150.36	150.31	150.29	150.27	150.27	150.26	150.22	150.21	150.20	150.19	150.11	150.06	150.03	150.01	149.97	149.93	149.89	149.87	149.77	149.76	149.67	149.57	149.54	149.47	149.39	149.37	149.33
ORIGINAL GROUND SURFACE	152.24	151.85	151.97	151.63	150.70	150.50	150.28	150.24	150.20	150.16	150.12	151.00	151.36	150.67	150.45	150.43	150.94	150.80	150.71	150.71	149.94	149.97	150.00	149.43	149.43	149.50	149.33	149.10	148.96	148.81	148.96	148.95	148.87	149.00	148.82	149.01	149.00	148.69	149.03	149.00	148.74	148.26
ACCUMULATED DISTANCE	2200.00	2300.00	2326.00	2400.00	2500.00	2525.00	2600.00	2625.00	2650.00	2675.00	2700.00	2800.00	2900.00	3000.00	3065.00	3100.00	3200.00	3246.00	3270.00	3300.00	3300.00	3370.00	3400.00	3410.00	3430.00	3500.00	3600.00	3662.00	3700.00	3740.00	3780.00	3800.00	3810.00	4000.00	4100.00	4130.00	4200.00	4285.00	4300.00	4340.00		
DISTANCE	100.00	100.00	26.00	74.00	100.00	25.00	75.00	25.00	25.00	25.00	40.00	100.00	100.00	100.00	65.00	35.00	100.00	46.00	24.00	30.00	70.00	30.00	10.00	20.00	60.00	100.00	62.00	39.00	40.00	40.00	20.00	100.00	10.00	90.00	100.00	30.00	70.00	85.00	15.00	44.00		
STATION	No. 22	No. 23	No. 23+26	No. 24	No. 25	No. 25+25	No. 26	No. 26+25	No. 27	No. 27	No. 28	No. 29	No. 30	No. 30+65	No. 31	No. 32	No. 32+46	No. 33	No. 33+70	No. 34	No. 34+10	No. 34+30	No. 35	No. 35	No. 36	No. 36+62	No. 37	No. 37+40	No. 37+80	No. 38	No. 38+10	No. 40	No. 41	No. 41+30	No. 42	No. 42+85	No. 43	No. 43+44				
CURVE	136° 30' 00"		143° 51' 30"		150° 18' 30"		145° 00' 30"		133° 10' 30"		159° 10' 30"		132° 40' 30"																													

TITLE OF DRAWING
NAMPHOU IRRIGATION
PROFILE OF MAIN CANAL
RMC No. 5 (2/2)

DRAWING No. I - 31

TYPICAL CROSS SECTIONS OF CANALS AND FARM ROADS

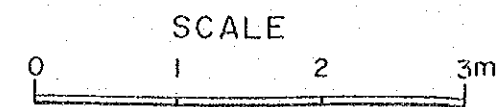


NOTE: LATERITE PAVEMENT WILL BE PROVIDED ONLY ON THE TOP OF FARM ROADS FOR MAIN AND SECONDARY CANALS OF TYPE A TO D.

DIMENSION

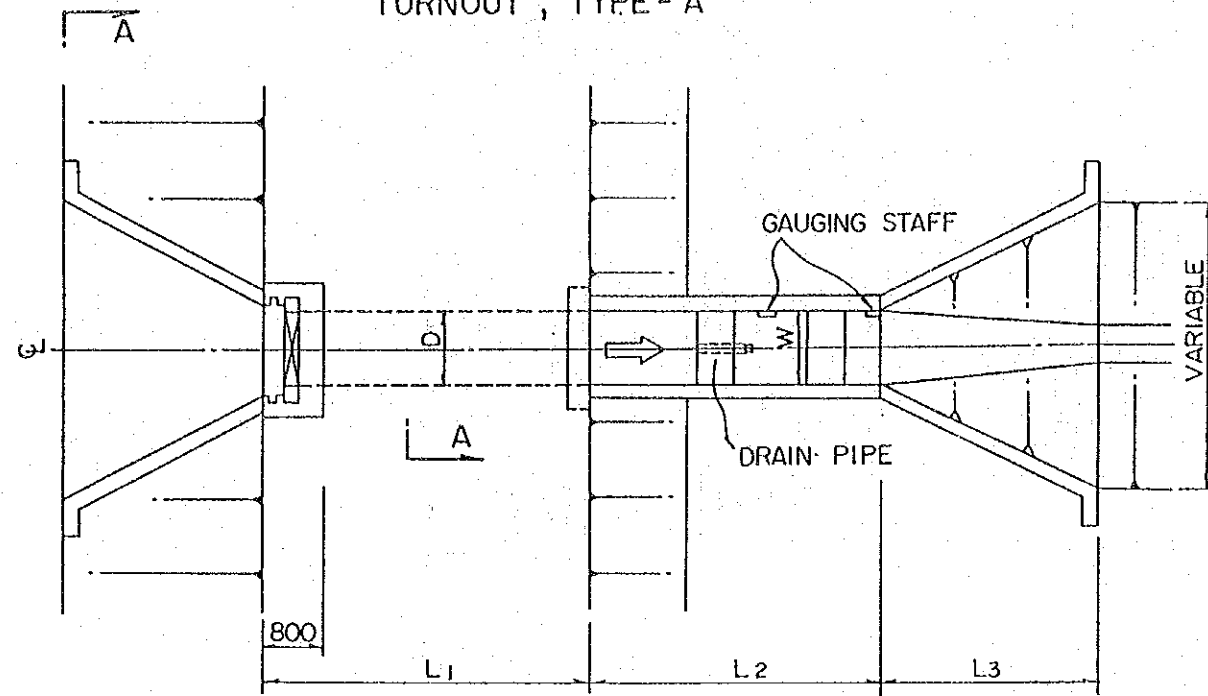
UNIT : mm

CANAL TYPE	B	H	h max	W ₁	W ₂	W ₃	m	n
A	800	1600	1300	1500	4500	3500	1.5	1.5~2.0
B	600	1300	1000	1500	4500	3500	1.5	1.5~2.0
C	500	1100	800	1500	4500	3500	1.5	1.5~2.0
D	400	900	600	1000	4500	3500	1.5	1.5~2.0
E	400	800	600	400	3000	—	1.0	1.5
F	300	600	400	400	3000	—	1.0	1.5
G	300	500	300	300	3000	—	1.0	1.5
H	200	350	300	300	800	—	1.0	1.5
I	200	300	250	300	600	—	1.0	1.5
J	100	200	180	200	300	—	1.0	1.5

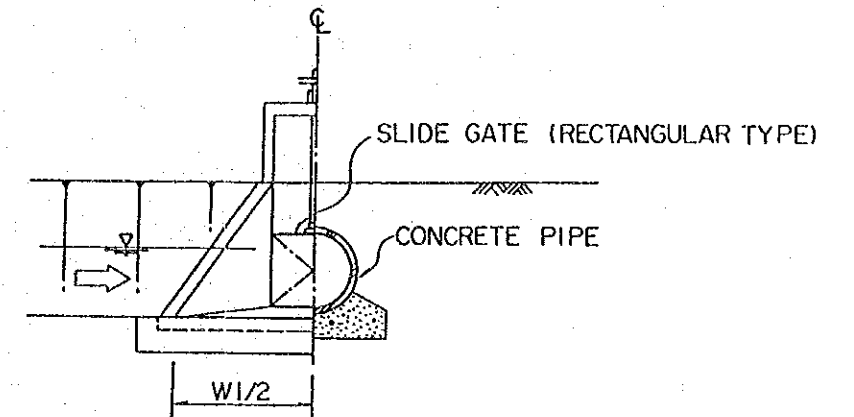


TITLE OF DRAWING
 TYPICAL CROSS SECTIONS OF
 CANALS & FARM ROAD
 DRAWING No. I-32

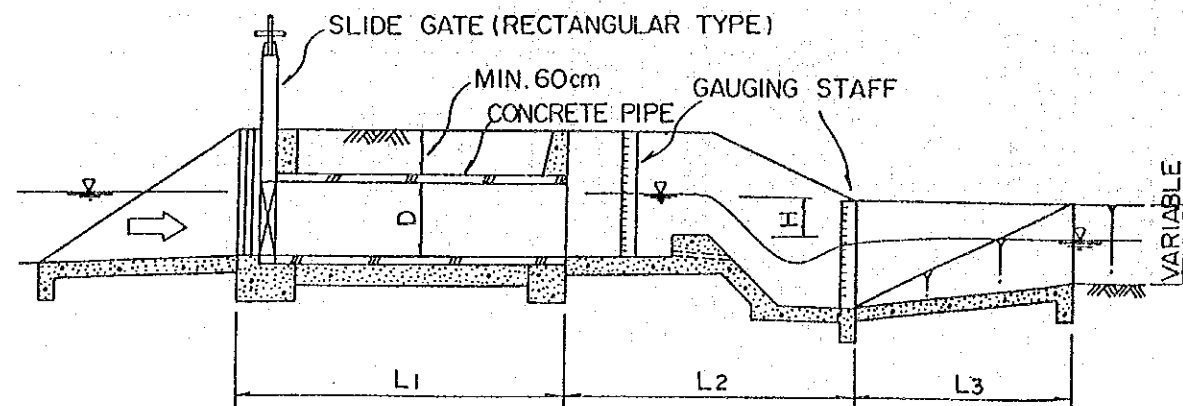
TURNOUT, TYPE - A



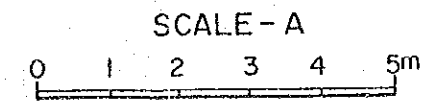
PLAN SCALE - A



SECTION A - A SCALE - A

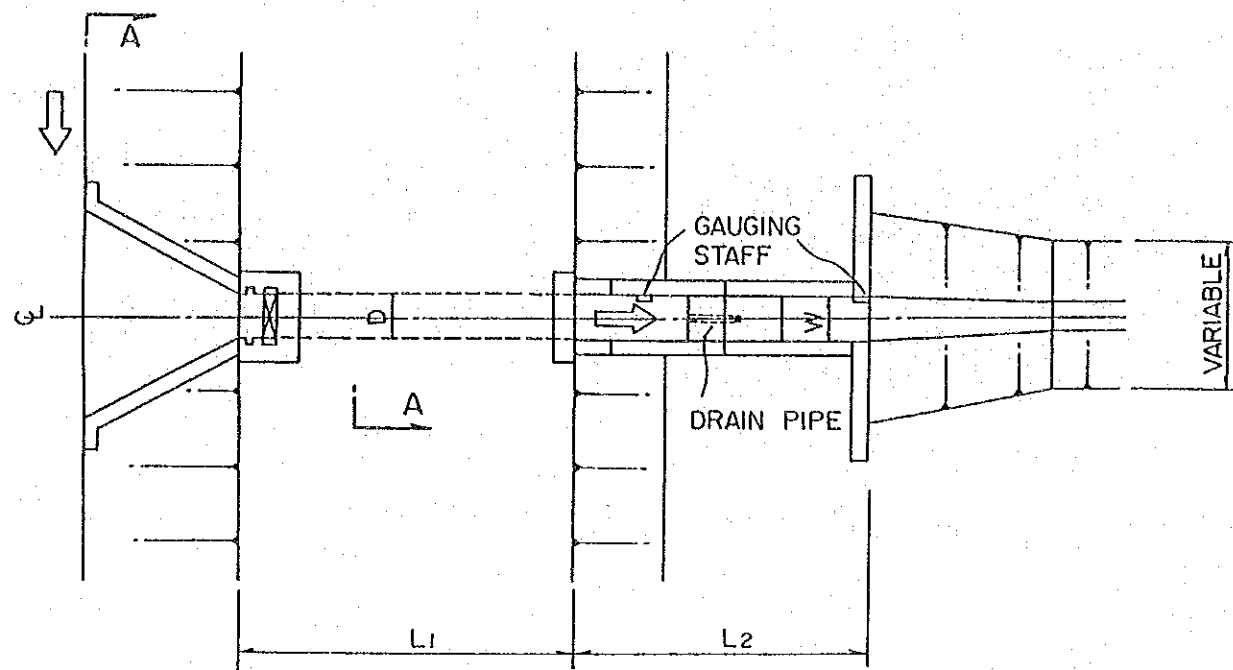


PROFILE SCALE - A

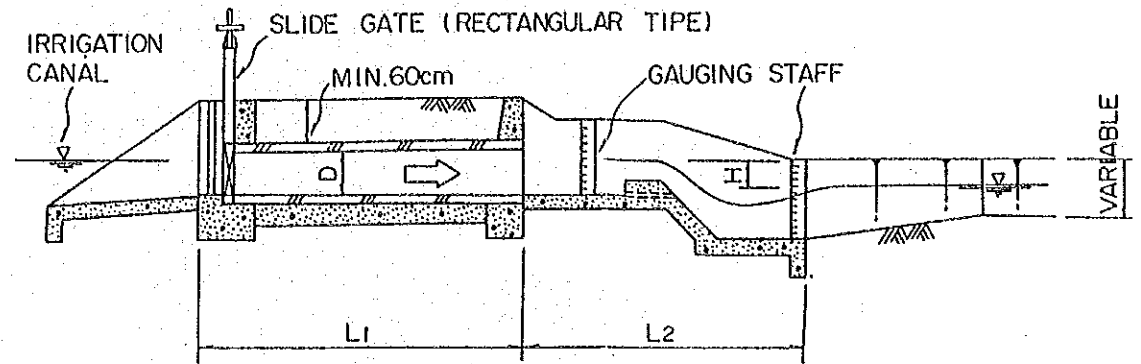


TITLE OF DRAWING
TURNOUT (1/2)
DRAWING No. I - 33

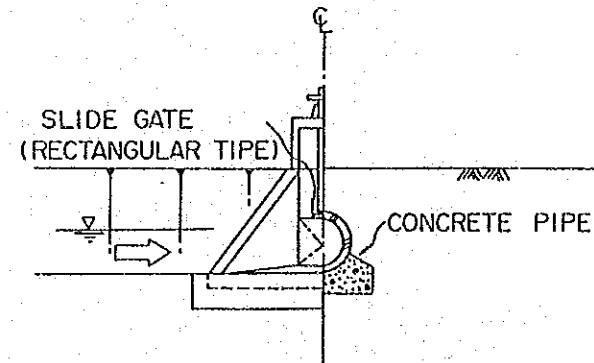
TURNOUT, TYPE - B G



PLAN SCALE - A



PROFILE SCALE - A



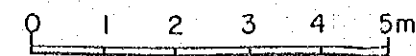
SECTION A - A SCALE - A

DIMENSION

UNIT : mm

TYPE	PIPE	Q (m ³ /s)	D	L1	L2	L3	W	H
A	φ1,000	0.6 ~ 0.3	1000	4500	4000	3000	1,000	300
B	φ 500	0.2 ~ 0.1	500	4500	4000	—	500	300
C	φ 500	0.2 ~ 0.1	500	1500	1500	—	500	300
D	φ 300	0.1 ~ 0.05	300	4500	4000	—	300	300
E	φ 300	0.1 ~ 0.05	300	1500	1500	—	300	300
F	φ 200	0.05 ~	200	4500	4000	—	200	300
G	φ 200	0.05 ~	200	1500	1500	—	200	300

SCALE - A



TITLE OF DRAWING

TURNOUTS (2/2)

DRAWING No. I - 34