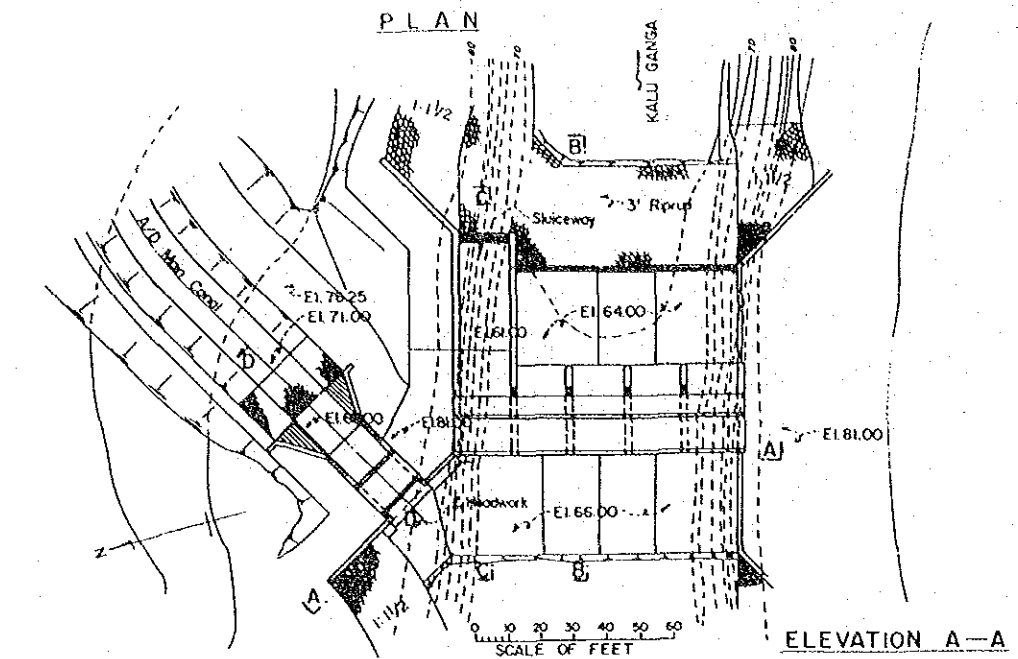
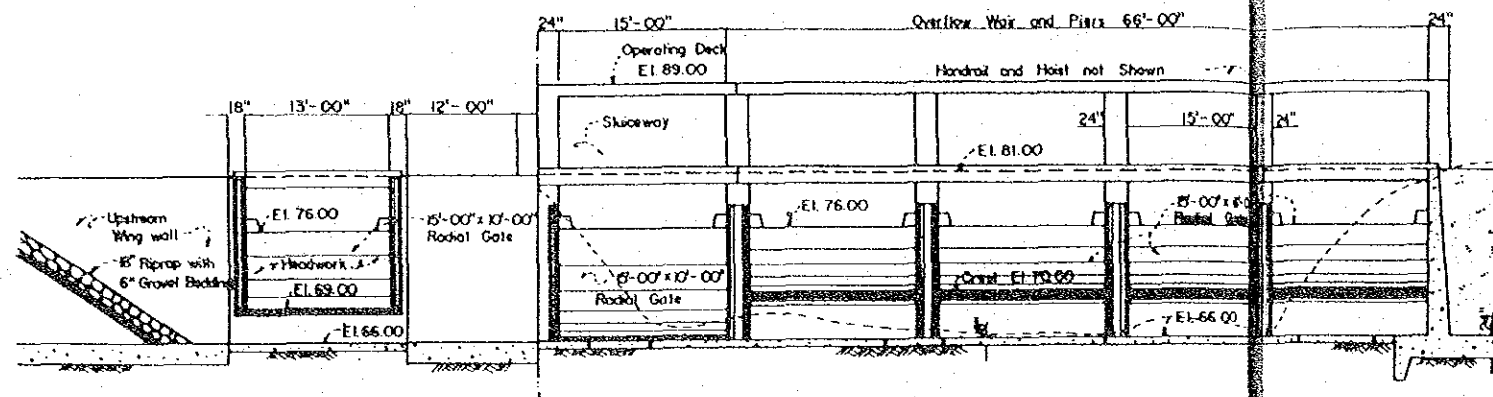
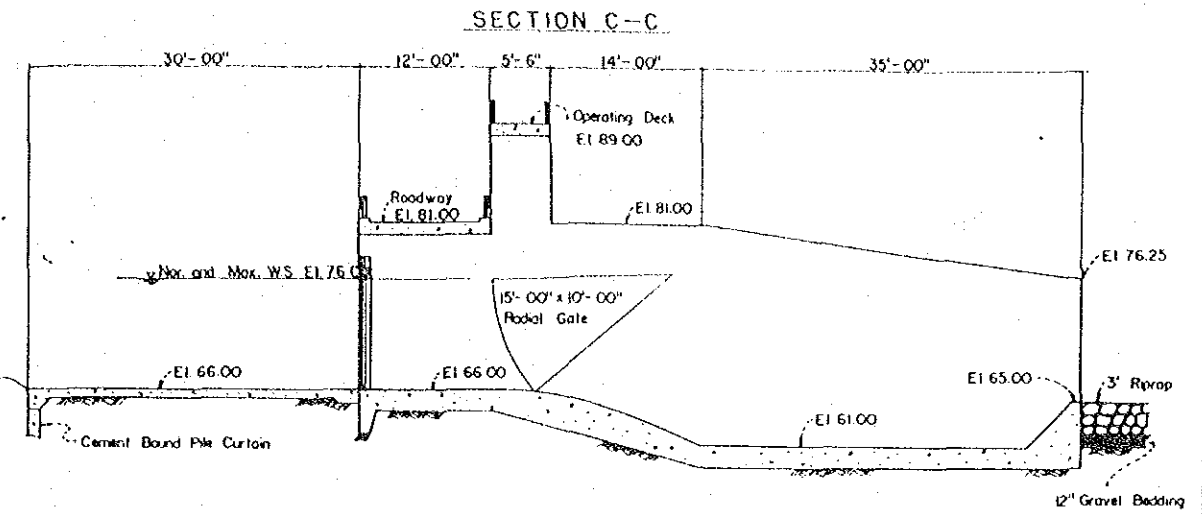


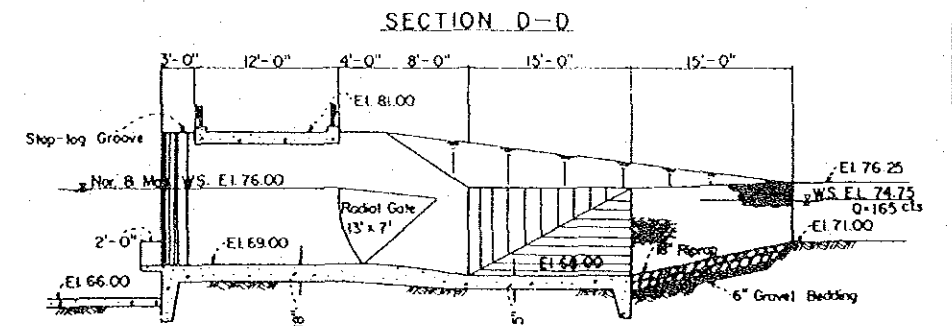
KALU GANGA ANICUT



ELEVATION A-A



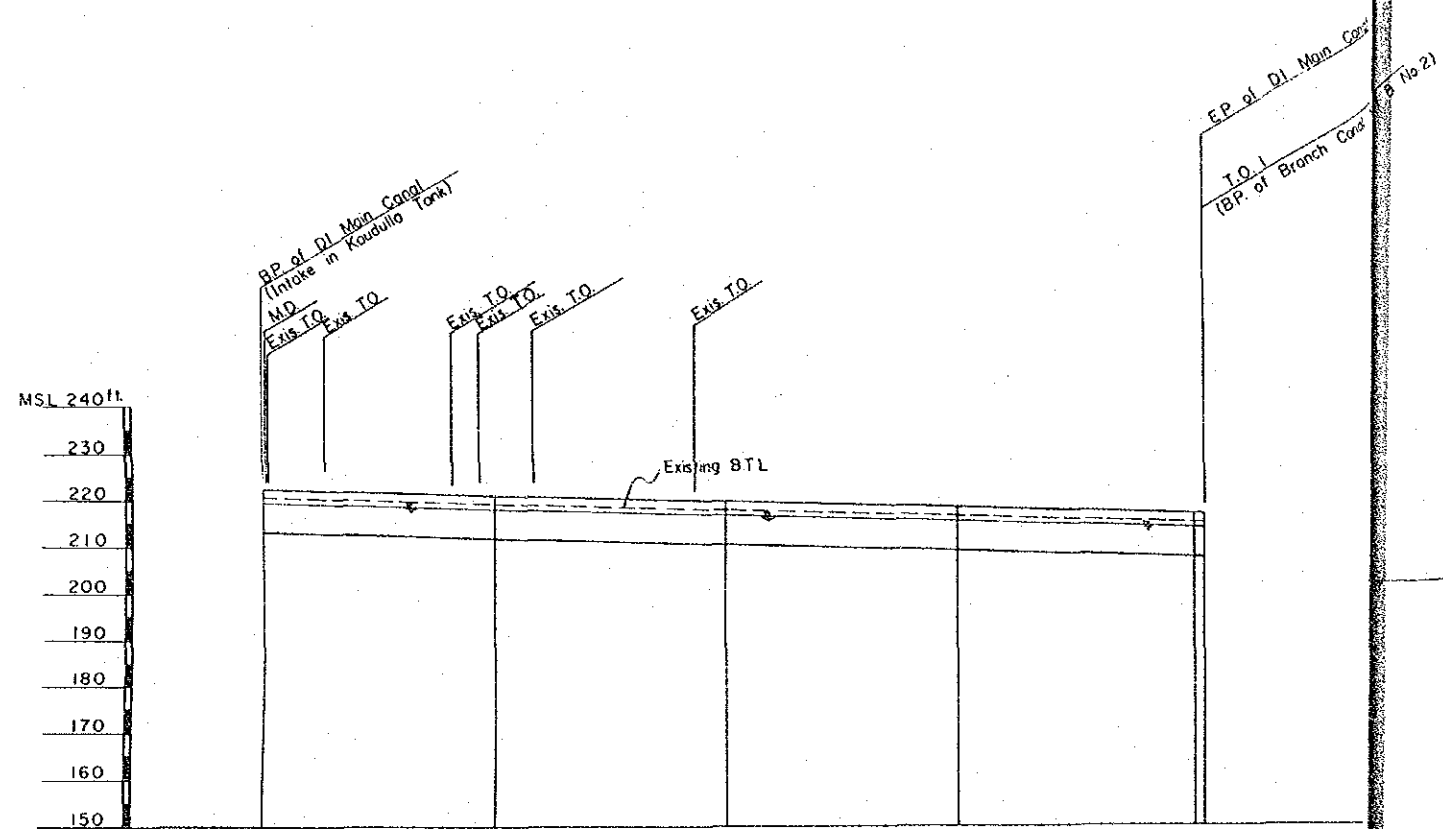
SECTION B-B



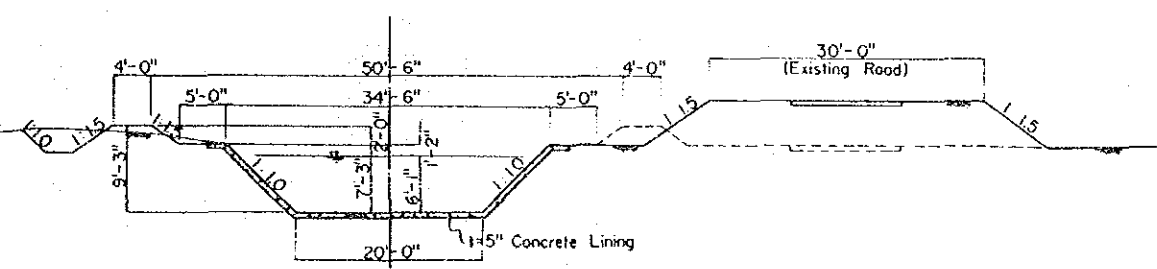
SECTION D-D

SCALE OF FEET

GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
KALU GANGA ANICUT	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

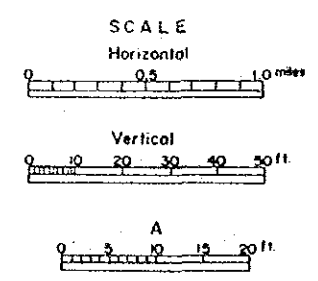


TYPICAL CROSS SECTION OF MAIN CANAL SCALE A



LEGEND

- Exis. T.O. Existing Off-take
- M.D. Water Measuring Device
- D.S. Division Structure



Grade	0.00030					
Depth of Exca.						
Height of Embank.						
Top of Bank		222.25		219.09		217.51
Water Surf.	219.08	217.50	215.92	214.34	212.76	211.18
Bottom of Canal	213.00	211.42	209.84	208.26	206.68	205.10
Ground Elev.	213.00	211.42	209.84	208.26	206.68	205.10
Accum. Dist.	0	1.00	2.00	3.00	4.00	4.05
Dist.	0	1.00	1.00	1.00	1.00	0.05
Station No.	No. 0	No. 1	No. 2	No. 3	No. 4	No. 4 + 0.04

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
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DEVELOPMENT PROJECT

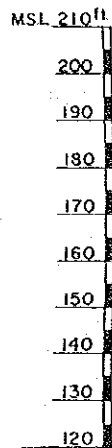
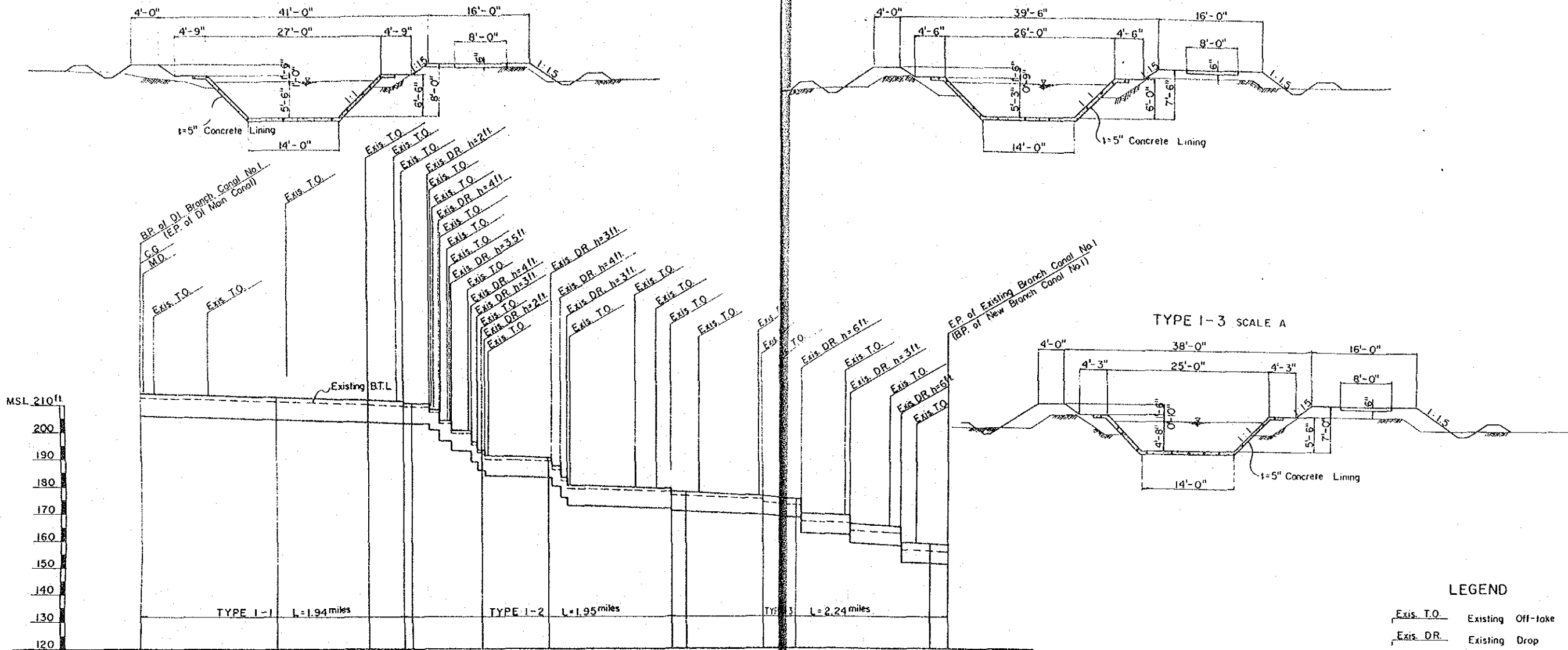
TITLE OF DRAWINGS
SYSTEM D1
**MAIN CANAL
PROFILE
(IMPROVEMENT)**

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
TOKYO JAPAN

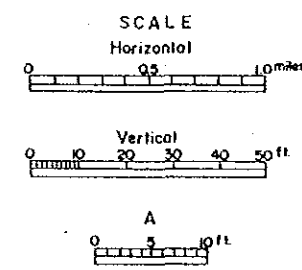
TYPE I-1 SCALE A

TYPE I-2 SCALE A

TYPE I-3 SCALE A



LEGEND
 Exis. T.O. Existing Off-take
 Exis. DR. Existing Drop
 M.D. Water Measuring Device



Grade	0.00030											
Depth of Exca.												
Height of Embon.												
Top of Bank	206.10	206.10	206.10	206.10	206.10	206.10	206.10	206.10	206.10	206.10	206.10	206.10
Water Surf.	211.60	211.60	211.60	211.60	211.60	211.60	211.60	211.60	211.60	211.60	211.60	211.60
Bottom of Canal	204.52	204.52	204.52	204.52	204.52	204.52	204.52	204.52	204.52	204.52	204.52	204.52
Ground Elev.												
Accum. Dist.	0	1.00	1.68	1.94	2.00	2.51	3.00	3.89	4.00	4.57	5.00	6.00
Dist.	0	1.00	0.68	0.36	0.36	0.51	0.49	0.89	0.11	0.57	0.23	1.00
Station No.	NO. 0	NO. 1	+0.68	+0.94	NO. 2	+0.51	NO. 3	+0.89	NO. 4	+0.57	NO. 5	+0.13

GOVERNMENT OF DEMOCRATIC SOCIALIST
 REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
 THE MORAGAHAKANDA AGRICULTURAL
 DEVELOPMENT PROJECT

TITLE OF DRAWINGS
 SYSTEM D1
 BRANCH CANAL No. 1
 PROFILE (I)
 (IMPROVEMENT)

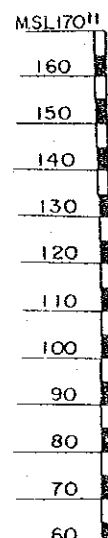
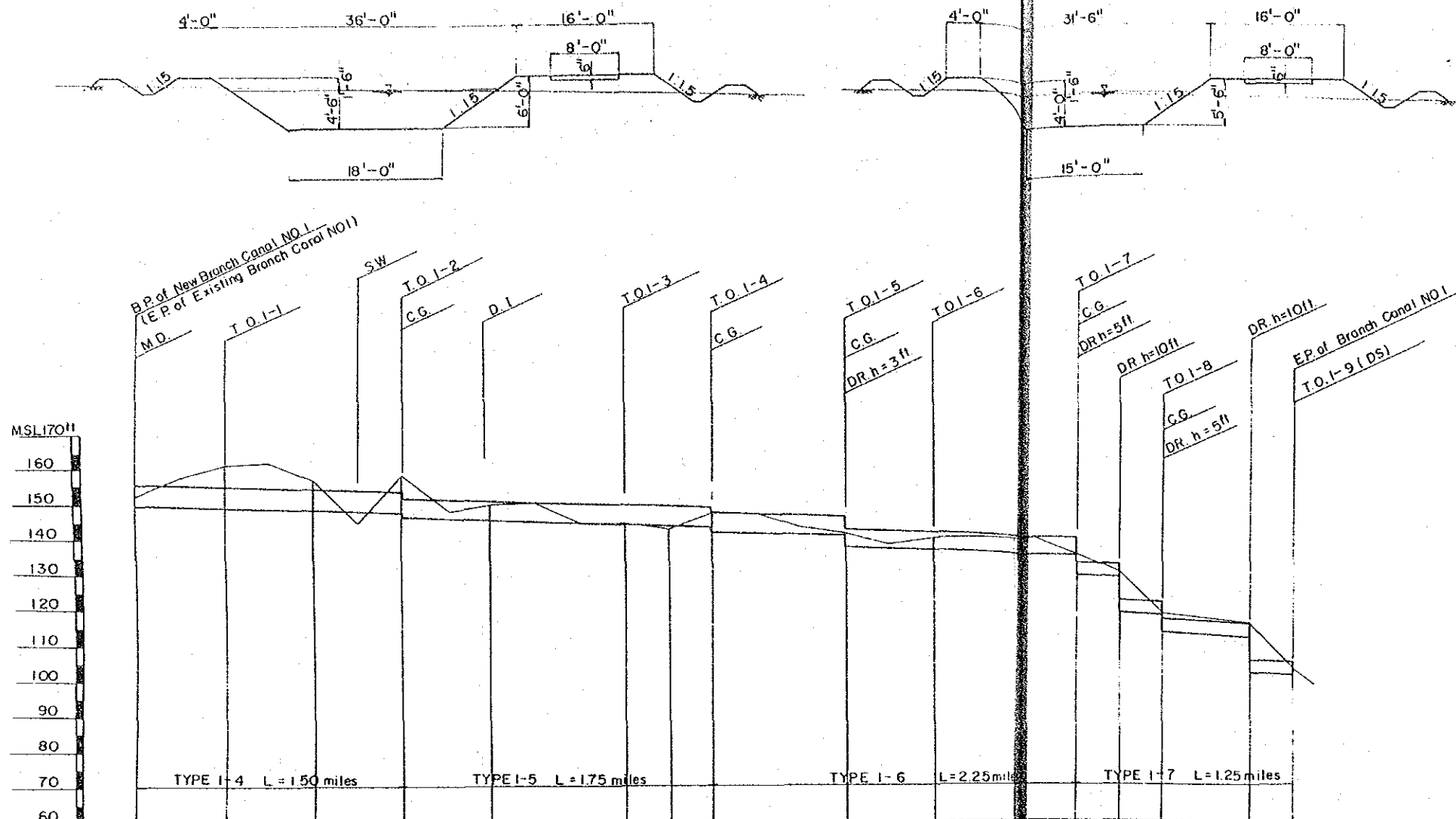
JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
 TOKYO JAPAN

TYPE I-4 SCALE A

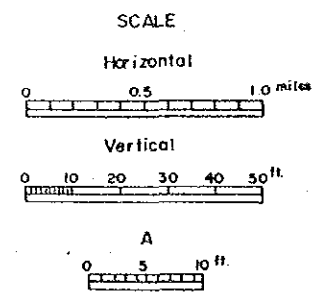
TYPE I-5 SCALE A

TYPE I-6 SCALE A

TYPE I-7 SCALE A



- LEGEND
- D.I. Drainage Inlet
 - T.O. Turnout
 - D.S. Division Structure
 - C.G. Check Gate
 - M.D. Water Measuring Divic
 - D.R. Drop
 - S.W. Spillway & Wasteway



Grade	0.00035										0.00040										0.00045									
Depth of Exca.	2.2	1.2	0.9	1.0	0.9	0.3	4.2	1.3	3.8	0.9	5.9	1.5	0.5	4.3	1.9	0.9	5.9	1.5	0.5	4.3	1.9									
Hight of Emban								1.3																						
Top of Bank	154.82	154.90	153.97	153.05	150.63	147.49	147.03	145.24	141.18	137.07	132.82	130.98	122.23	121.64	115.45	134.07	129.07	128.48	120.98	117.89	111.70	104.86								
Water Surf.	154.32	153.40	152.22	151.30	149.13	147.49	147.03	145.24	139.68	137.07	131.57	130.98	120.98	115.13	113.95	134.07	129.07	128.48	120.98	117.89	111.70	103.36								
Bottom of Canal	149.82	148.90	147.97	147.05	145.13	143.74	143.28	141.82	136.18	129.07	124.67	124.48	118.48	112.89	110.70	134.07	129.07	128.48	120.98	117.89	111.70	103.36								
Ground Elev.	152.0	161.0	157.0	158.0	150.0	144.0	142.0	147.0	140.0	135.0	130.0	130.0	118.0	116.0	103.0	135.0	130.0	130.0	118.0	116.0	103.0	103.0								
Accum. Dist.	0	0.50	1.00	1.50	2.00	2.75	3.00	3.25	4.50	5.50	5.75	6.00	6.50	6.75		5.50	5.75	6.00	6.50	6.75										
Dist.	0	0.50	0.50	0.50	0.50	0.75	0.25	0.25	0.75	0.50	0.25	0.25	0.50	0.25		0.50	0.25	0.25	0.50	0.25										
Station NO.	NO. 0	+0.50	NO. 1	+0.50	NO. 2	+0.75	NO. 3	+0.25	NO. 4	-0.50	+0.50	+0.75	NO. 6	+0.50	+0.75	NO. 8	+0.50	+0.75	NO. 10	+0.50	+0.75									

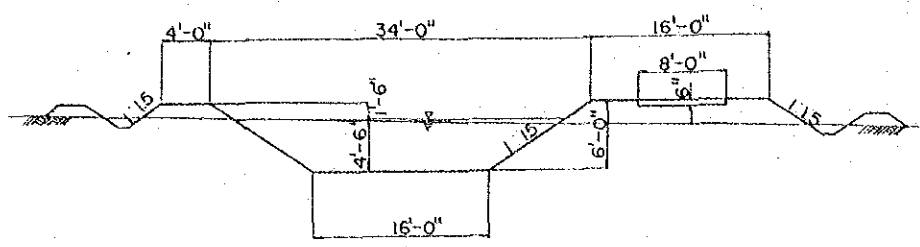
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT

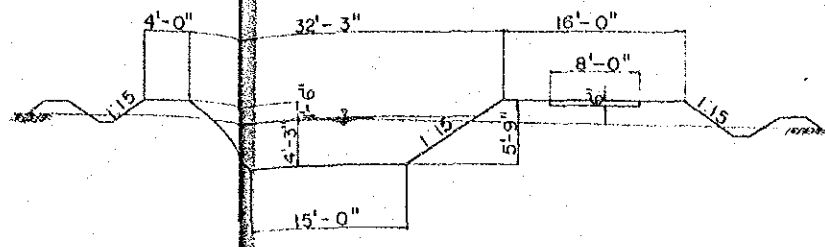
TITLE OF DRAWINGS
 SYSTEM D
 BRANCH CANAL No. 1
 PROFILE

JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN DWG. No.

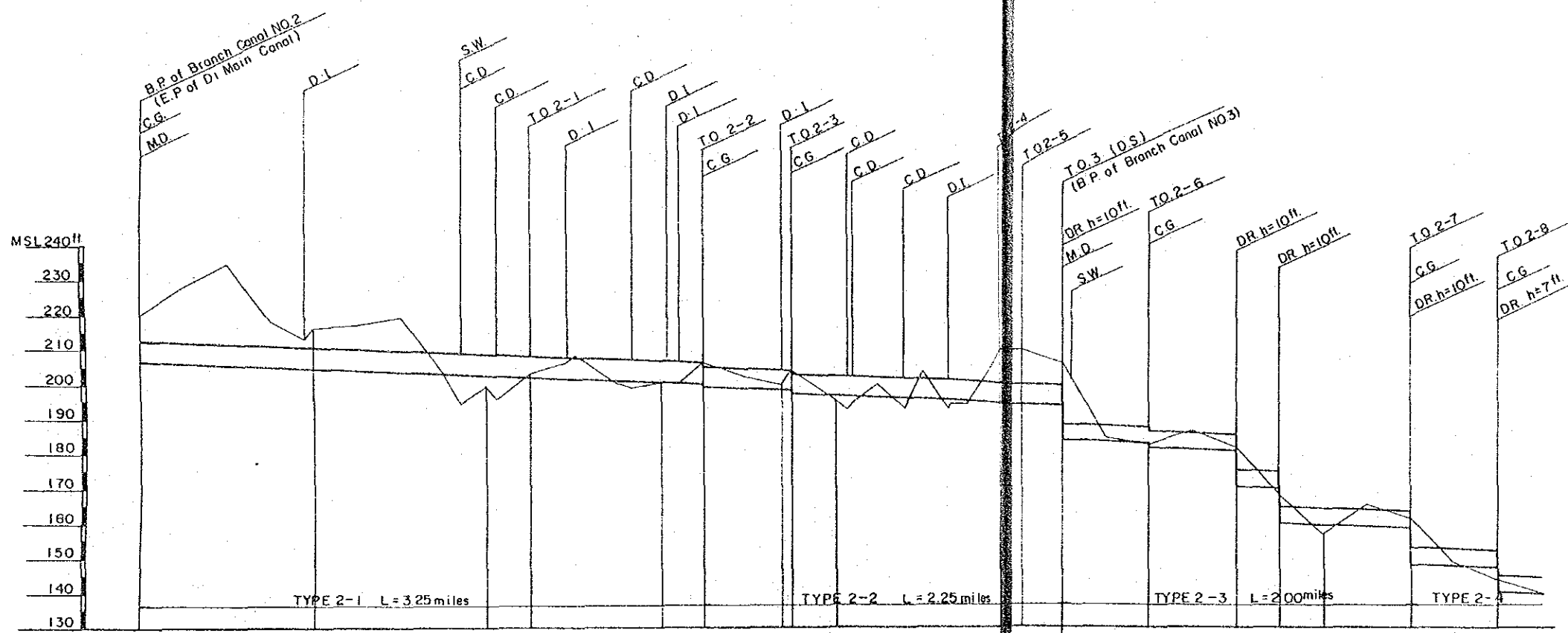
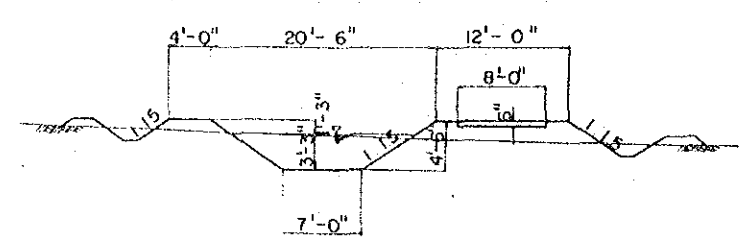
TYPE 2-1 SCALE A



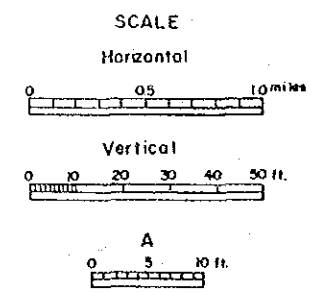
TYPE 2-2 SCALE A



TYPE 2-3 SCALE A



- LEGEND
- C.D. Cross Drain
 - D.I. Drainage Inlet
 - T.O. Turnout
 - D.S. Division Structure
 - C.G. Check Gate
 - M.D. Water Measuring Device
 - D.R. Drop
 - S.W. Spillway & Wasteway



Station No.	Dist.	Accum. Dist.	Ground Elev.	Bottom of Canal	Water Surf.	Top of Bank	Hight of Emban.	Depth of Exco	Grade
0+00	0	0	2200	20565	21015	21165	143	143	0.00035
0+100	1.00	100	2160	20380	20830	20980	2.2	2.2	
0+200	2.00	200	1990	12195	20645	12795	30	15	
0+225	2.25	225	2030	20150	20600	20750			
0+300	3.00	300	2000	20111	20461	20611	0.1	6.3	
0+325	3.25	325	2060	19865	20415	20565		7.3	
0+375	3.75	375	2040	19772	20197	20347		6.3	
0+400	4.00	400	1950	19626	20051	20201	1.3	7.3	
0+500	5.00	500	2100	19395	19795	19970		16.0	0.00040
0+550	5.50	550	2060	19349	19749	19924		125	
0+600	6.00	600	1820	18143	18443	18593	0.4	0.6	
0+650	6.50	650	1810	18037	18337	18487		0.6	
0+675	6.75	675	1670	16984	17284	17434	2.8	7.2	
0+700	7.00	700	1570	15931	16231	16381	2.3		
0+750	7.50	750	1610	15826	16126	16276		2.7	
0+800	8.00	800	1440	14720	14995	15120	3.2	3.8	

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

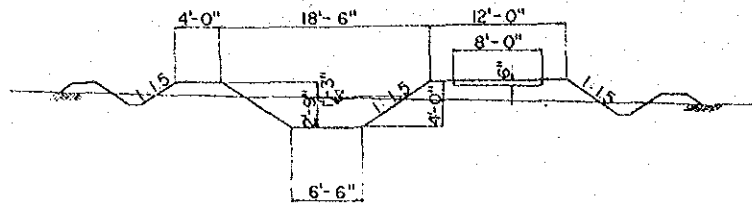
THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
SYSTEM D1
BRANCH CANAL No.2
PROFILE (I)

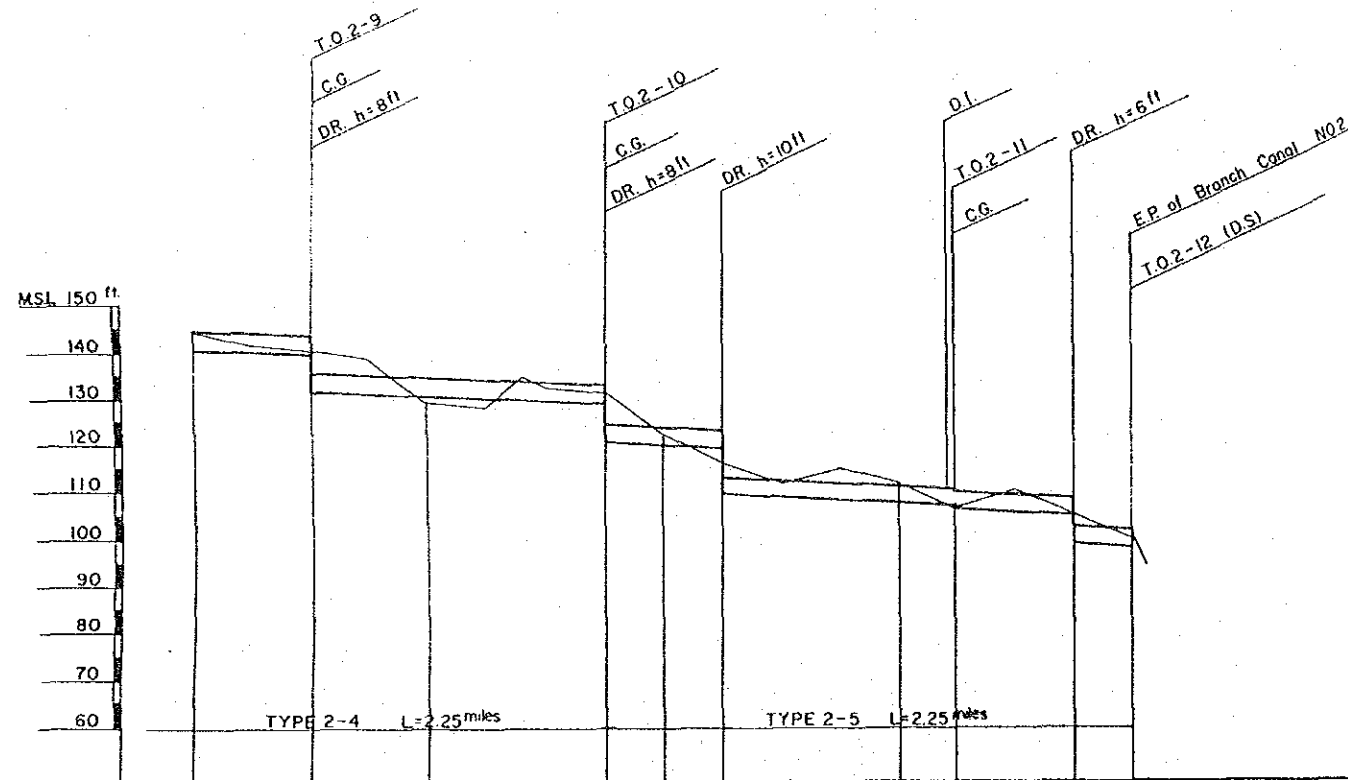
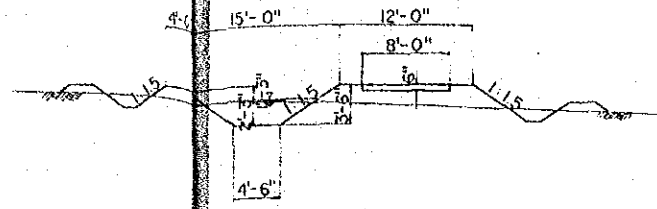
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

DWG. No.

TYPE 2-4 SCALE A

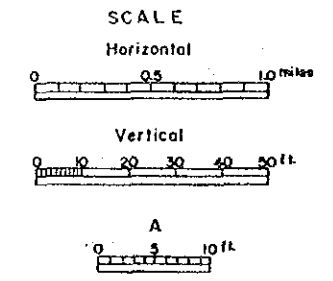


TYPE 2-5 SCALE A



LEGEND

- D. I. Drainage Inlet
- T. O. Turnout
- D. S. Division Structure
- C. G. Check Gate
- M. D. Water Measuring Device
- D. R. Drop



Grade	0.0004		0.00045	
Depth of Exca.	3.8	0.9	2.5	2.1
Height of Emban.				6.7
Top of Bank	144.0	143.14	132.50	123.41
Water Surf.	142.95	141.89	131.00	122.16
Bottom of Canal	140.20	131.14	120.50	109.31
Ground Elev.	144.0	140.0	131.0	116.0
Accum. Dist.	8.00	8.50	9.75	10.25
Dist.	0.50	0.50	0.75	0.25
Station No.	NO. 8	-0.5	NO. 9	+0.25

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELE DEVELOPMENT

THE STUDY ON EXTENSION OF
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DEVELOPMENT PROJECT

TITLE OF DRAWINGS
SYSTEM D1
BRANCH CANAL No.2
PROFILE (2)

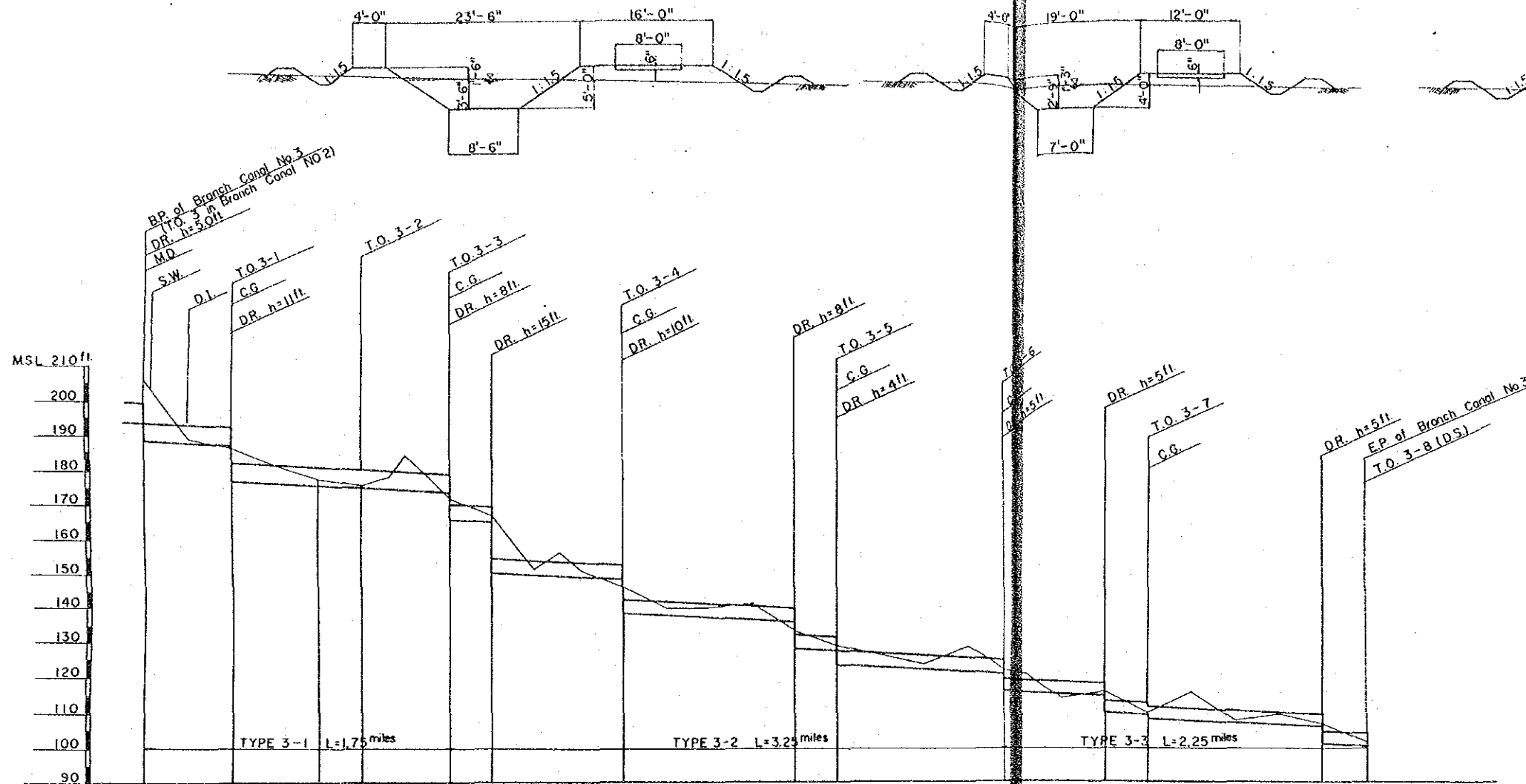
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN

OWG. No.

TYPE 3-1 SCALE A

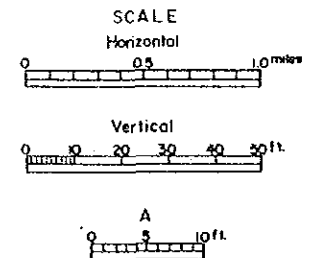
TYPE 3-2 SCALE A

TYPE 3-3 SCALE A



LEGEND

- D.I. Drainage Inlet
- T.O. Turnout
- D.S. Division Structure
- C.G. Check Gate
- M.D. Water Measuring Device
- D.R. Drop
- S.W. Spillway & Wasteway



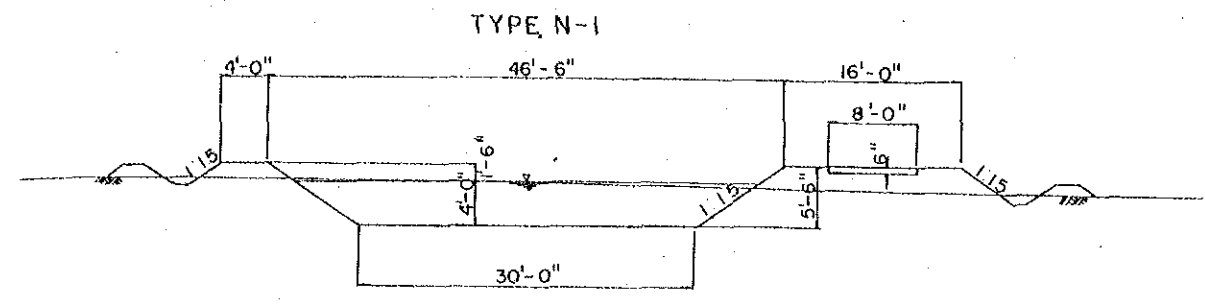
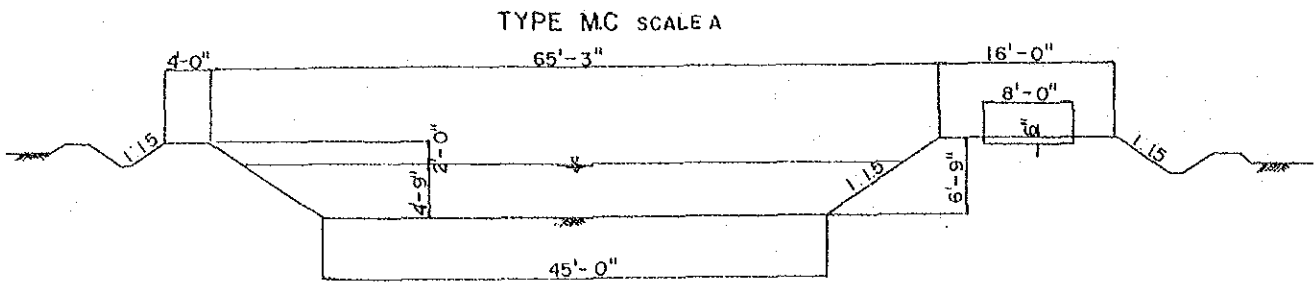
Station No.	Dist. in Mile	Accum. Dist.	Ground Elev.	Bottom of Canal	Water Surf.	Top of Bank	Height of Embank.	Depth of Exca.	Grade	
No. 0	0	0	206.0	193.49	191.99	193.49		17.5	0.0004	
+0.50	0.50	0.50	186.0	187.43	190.93	189.43	1.4	9.6		
No. 1	0.50	1.00	177.0	175.37	178.62	180.37		1.6		
+0.25	0.25	1.25	175.5	174.85	178.10	179.85		0.7		
+0.75	0.50	1.75	171.5	173.79	177.04	178.79	2.3	5.7		
No. 2	0.25	2.00	167.0	165.26	168.01	169.26		1.7		
+0.75	0.75	2.75	146.0	148.68	151.43	152.68	2.7	7.3		
No. 3	0.25	3.00	140.0	138.15	140.65	142.15	1.9			
+0.75	0.75	3.75	133.5	136.57	139.07	140.57	3.1	4.9		
No. 4	0.25	4.00	129.5	128.04	130.54	132.04		1.5		
+0.75	0.75	4.75	116.0	115.15	117.40	118.65		0.9		0.00045
No. 5	0.00	5.00	122.0	121.93	124.18	125.93		0.1		
+0.75	0.75	5.75	116.0	115.15	117.40	118.65		0.9		
No. 6	0.25	6.00	110.0	109.56	111.81	113.06		0.4		
+0.75	0.75	6.75	107.0	106.18	108.18	109.68		0.8		
No. 7	1.00	7.00	107.0	101.18	103.18	104.68		5.8		
+0.25	0.25	7.25	102.0	100.59	102.59	104.09		1.4		

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

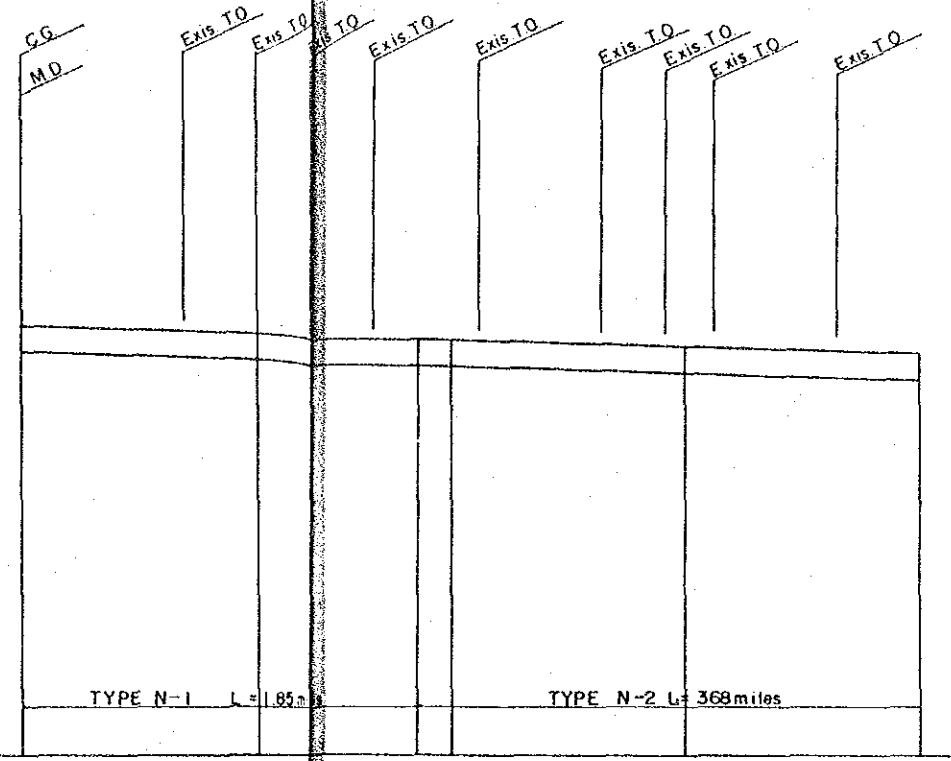
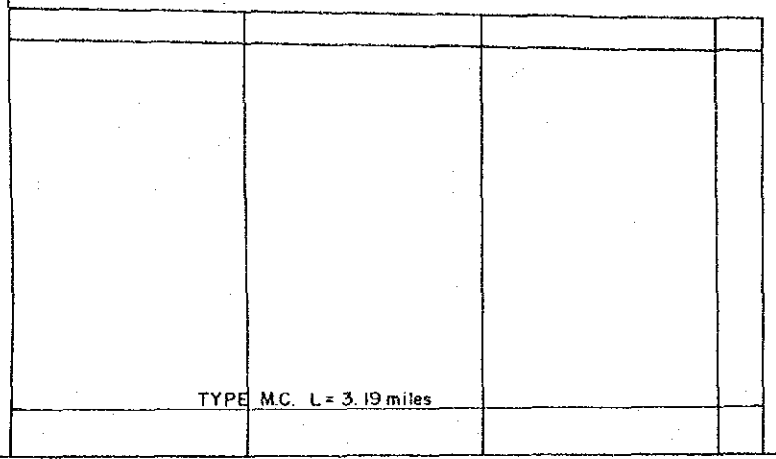
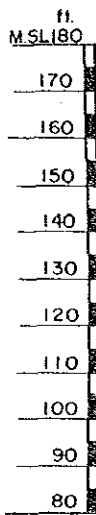
THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
SYSTEM D1
BRANCH CANAL No.3
PROFILE

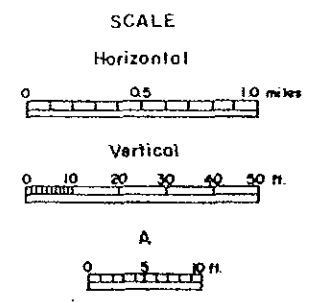
JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
TOKYO JAPAN



B.P. of Di Main Canal
(In take in Parakrama Somudru)



LEGEND
 Exis. T.O. Existing Off-take
 C.G. Check Gate
 M.D. Water Measuring Device



Grade	0.00020				
Depth of Exca.					
Hight of Emban.					
Top of Bank	17520	17414	17309	17203	17183
Water Surf.	17320	17214	17109	17003	16983
Bottom of Canal	16845	16739	16634	16528	16508
Ground Elev.	16845	16739	16634	16528	16508
Accum. Dist.	0	1.00	2.00	3.00	3.19
Dist.	0	1.00	1.00	1.00	0.19
Station NO.	NO.0	NO.1	NO.2	NO.3	+0.19

Grade	0.00025				
Depth of Exca.					
Hight of Emban.					
Top of Bank	17058	16926	16814	16734	16662
Water Surf.	16906	16776	16664	16544	16530
Bottom of Canal	16508	16376	16264	16144	16112
Ground Elev.	16508	16383	16264	16144	16112
Accum. Dist.	0	1.00	1.85	2.00	3.00
Dist.	0	1.00	0.85	0.15	1.00
Station NO.	NO.0	NO.1	+0.85	NO.2	NO.3

Existing Di Main Canal

Existing Di North Canal

GOVERNMENT OF DEMOCRATIC SOCIALIST
 REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELE DEVELOPMENT

THE STUDY ON EXTENSION OF
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 DEVELOPMENT PROJECT

TITLE OF DRAWINGS
 SYSTEM D₂
 DI MAIN CANAL, NORTH CANAL & R.B.18
 PROFILES (I)
 (IMPROVE MENT)

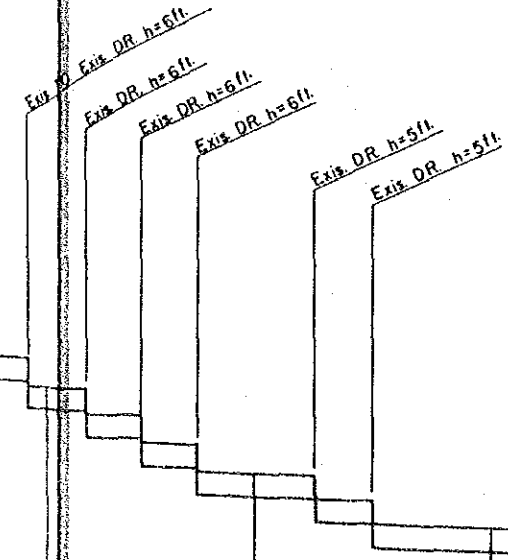
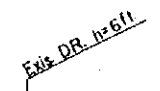
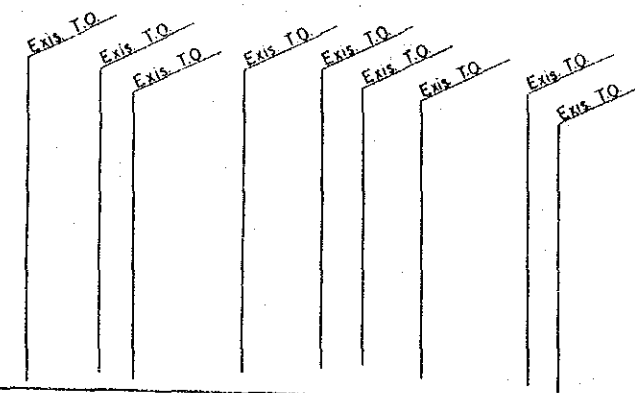
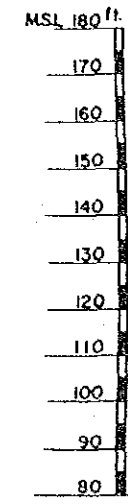
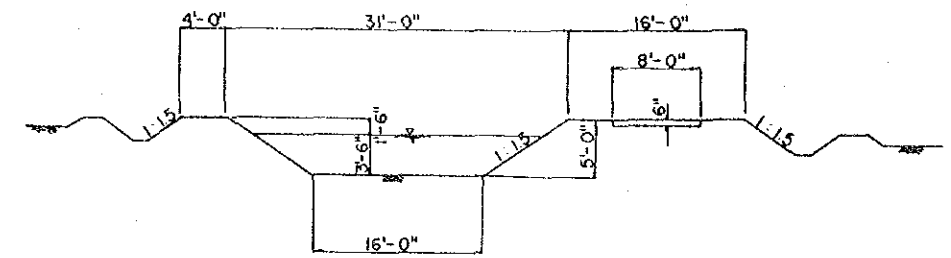
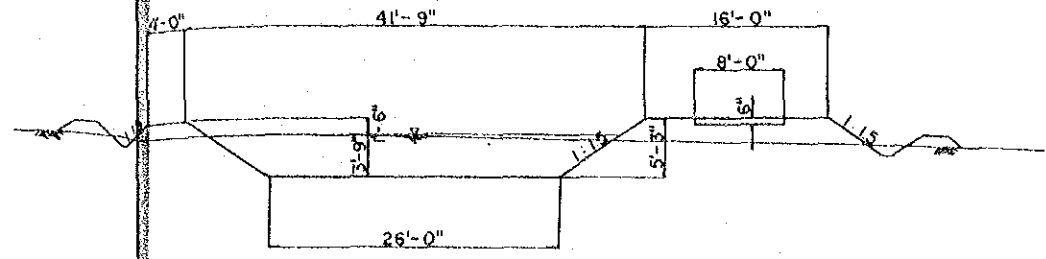
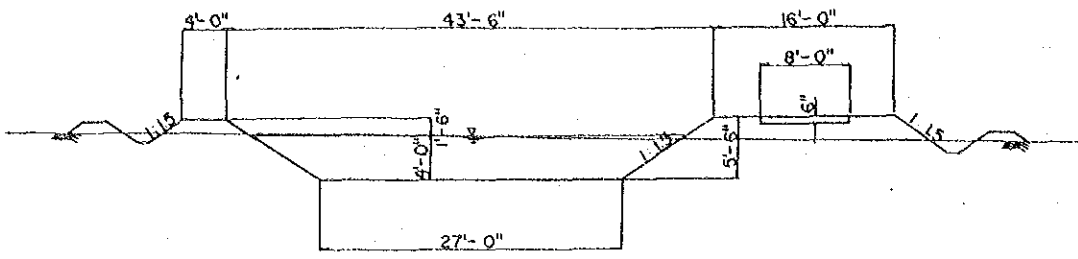
JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN

DWG. No.

TYPE N-2 SCALE A

TYPE N-3 SCALE A

TYPE N-4 SCALE A



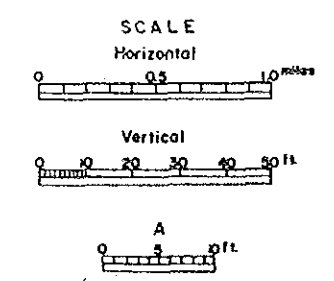
TYPE N-2 L=3.66 miles

TYPE N-3 L=1.01 miles

TYPE N-4 L=4.10 miles

LEGEND

- Exis. T.O. Existing Off-take
- Exis. DR. Existing Drop
- C.G. Check Gate
- M.D. Water Measuring Device



Grade	0.00025		
Depth of Exca.	0.3	0.3	0.3
Hight of Emban.			
Top of Bank	163.30-165.30	162.48-163.98	161.78-163.28
Water Surf.	163.80-165.30	162.48-163.98	161.78-163.28
Bottom of Canal	159.80-161.30	158.48-160.00	157.78-159.28
Ground Elev.	160.11-159.80	158.76-158.48	157.78-157.78
Accum. Dist.	4.00	5.00	5.53
Dist.	1.00	1.00	0.53
Station No.	NO. 4	NO. 5	+0.53

Grade	0.000		
Depth of Exca.			
Hight of Emban.			
Top of Bank	156.00-159.50	154.42-157.92	148.42-151.92
Water Surf.	156.00-159.50	154.42-157.92	148.42-151.92
Bottom of Canal	156.00-159.50	154.42-157.92	148.42-151.92
Ground Elev.	140.83-145.83	121.25-124.75	109.67-113.01
Accum. Dist.	0	1.00	2.00
Dist.	0	1.00	1.00
Station No.	NO. 0	NO. 1	NO. 2

Existing DI North Canal

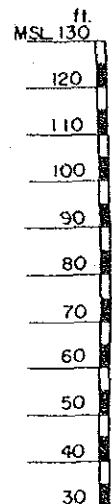
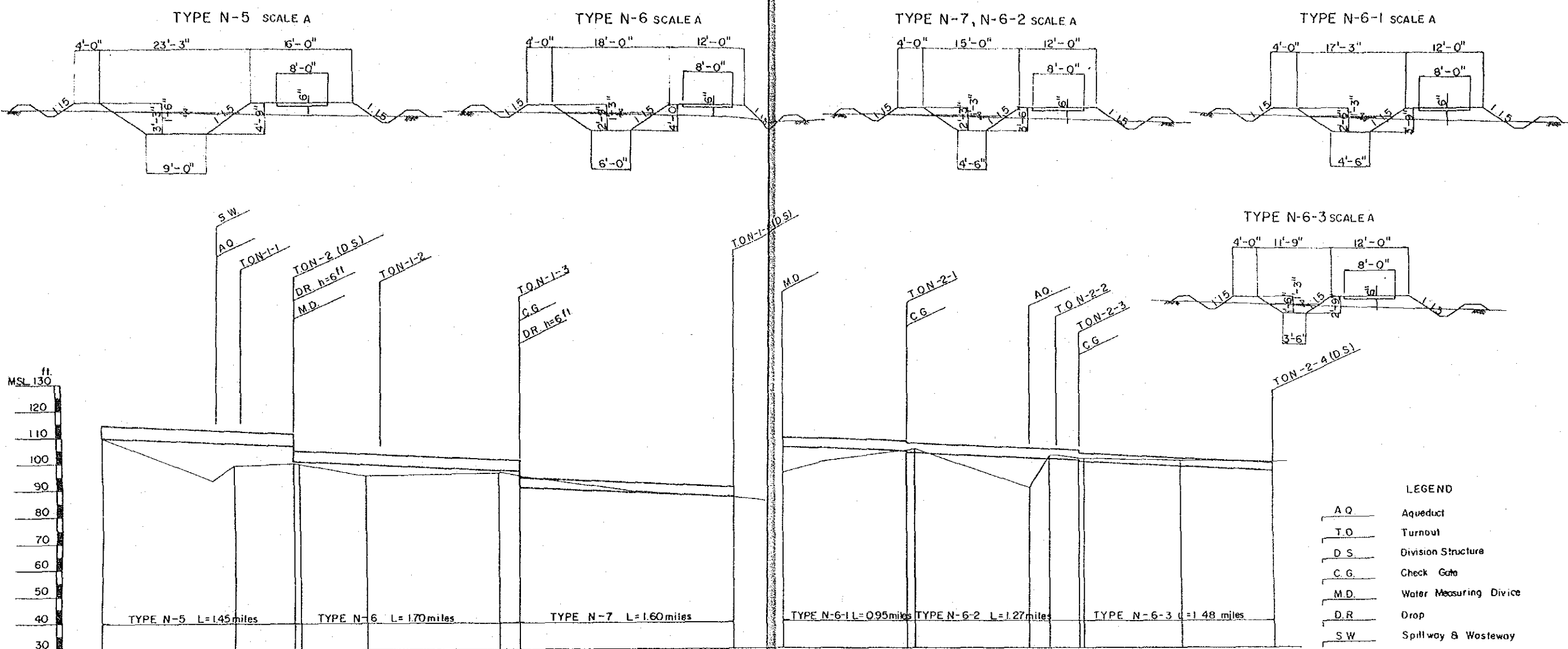
Existing RB

GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

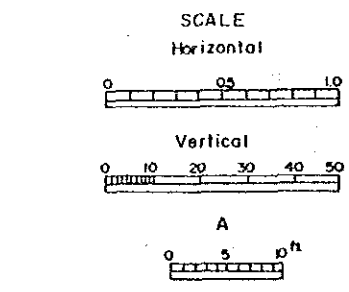
THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
SYSTEM D₂
D₁ MAIN CANAL, NORTH CANAL & R.B. 18
PROFILES (2)
(IMPROVEMENT)

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
TOKYO JAPAN



- LEGEND
- A.O. Aqueduct
 - T.O. Turnout
 - D.S. Division Structure
 - C.G. Check Gate
 - M.D. Water Measuring Device
 - D.R. Drop
 - S.W. Spillway & Wasteway



Grade	0.00040										0.00045																													
Depth of Exca.											4.1										0.2																			
Height of Emban.											1.2										1.9										0.1									
Top of Bank	11426										10118										9234										9056									
Water Surf.	11276										9993										9109										8931									
Bottom of Canal	1095										9718									8884										8706										
Ground Elev.	1095										960									890										870										
Accum. Dist.	0										3.00									4.00										4.75										
Dist.	0										1.00									0.85										0.75										
Station NO.	NO.0										NO.3									NO.4										NO.5										

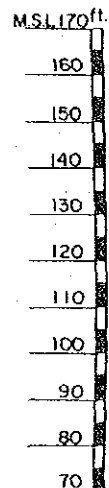
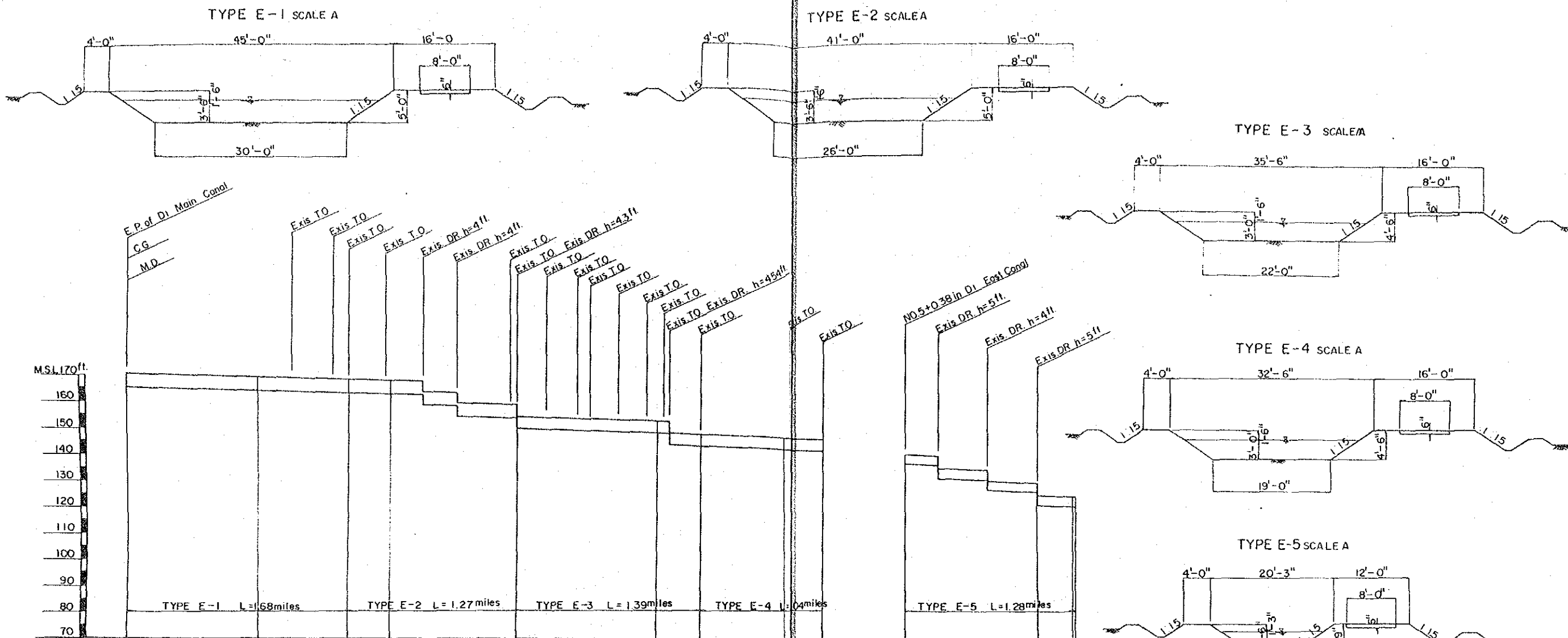
Grade	0.00045																																																											
Depth of Exca.	3.8										1.4										1.3										0.8										2.7										3.9									
Height of Emban.											1.05										1.05										1.05										1.05										1.05									
Top of Bank	11020										10645									10369										10017										9967																				
Water Surf.	10896										9993									9119										8942										8765																				
Bottom of Canal	10645										9718									8884										8706																														
Ground Elev.	960										960									890										870																														
Accum. Dist.	0										0.95									1.00										2.22																														
Dist.	0										0.95									0.05										0.78																														
Station NO.	NO.0										NO.1									NO.2										NO.3																														

GOVERNMENT OF DEMOCRATIC SOCIALIST
 REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
 THE MORAGAHAKANDA AGRICULTURAL
 DEVELOPMENT PROJECT

TITLE OF DRAWINGS
 SYSTEM D₂
 BRANCH CANAL No.1
 PROFILE (1)
 (IMPROVEMENT)

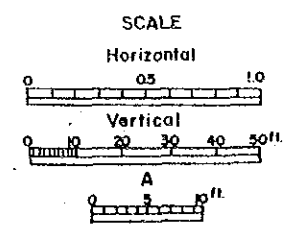
JAPAN INTERNATIONAL COOPERATION AGENCY | CWG. No.
 TOKYO JAPAN



Grade	000025										000026										000023									
Depth of Exca.																														
Height of Embank.																														
Top of Bank	17002										16870										16790									
Water Surf.	16852										16720										16588									
Bottom of Canal	16502										16370										16238									
Ground Elev.	16502										16370										16238									
Accum. Dist.	0										1.00										2.00									
Dist.	0										1.00										2.00									
Station NO	NO 1										NO 2										NO 3									

Grade	0000347									
Depth of Exca.										
Height of Embank.										
Top of Bank	13965									
Water Surf.	13840									
Bottom of Canal	13590									
Ground Elev.	13590									
Accum. Dist.	0									
Dist.	0									
Station NO	NO 1									

- LEGEND**
- Exis. T.O. Existing Off-take
 - Exis. DR Existing Drop
 - C.G. Check Gate
 - M.D. Water Measuring Device



GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

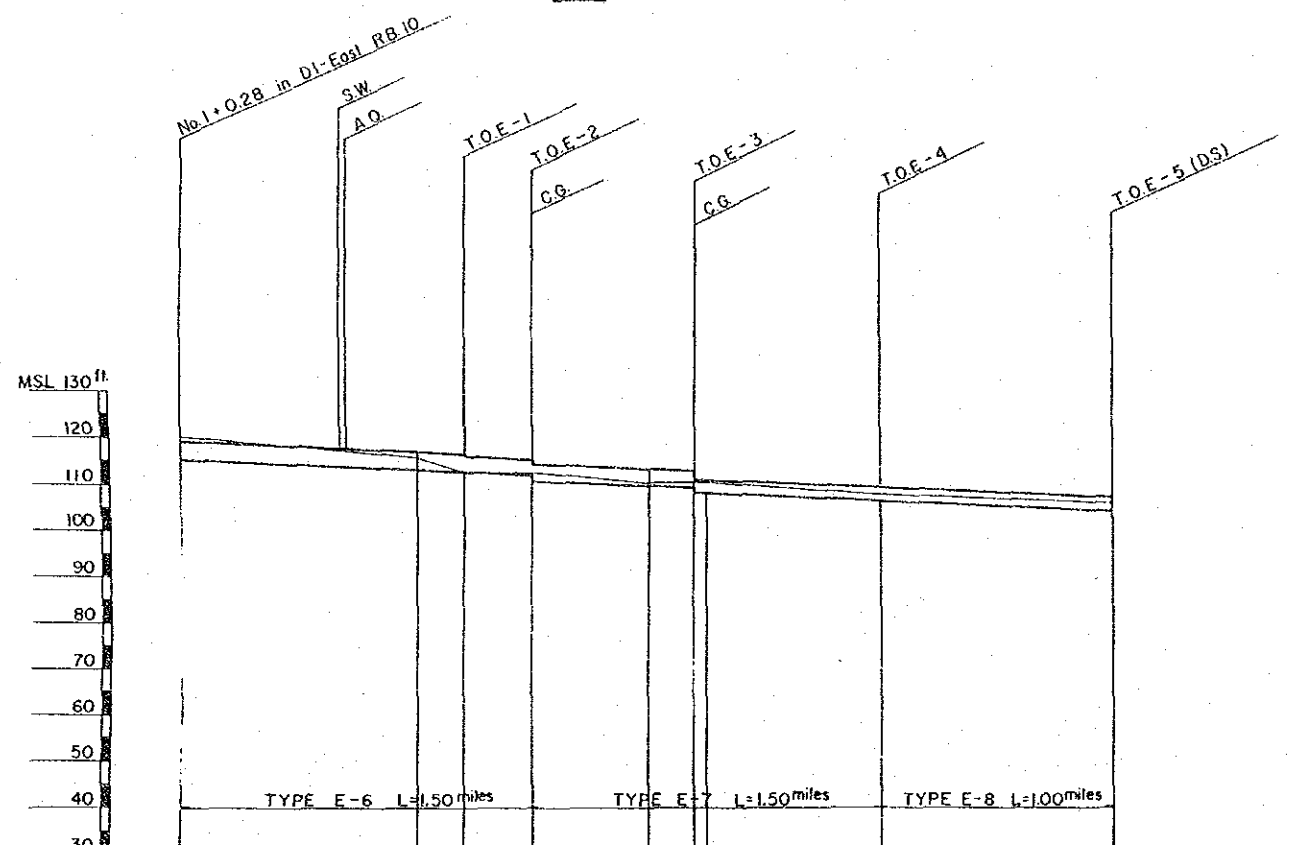
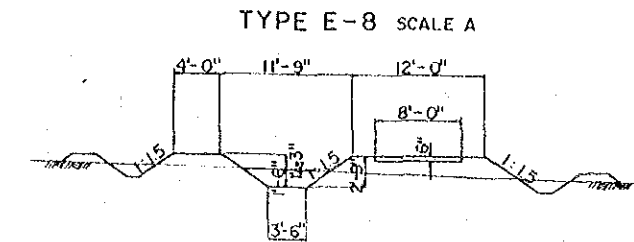
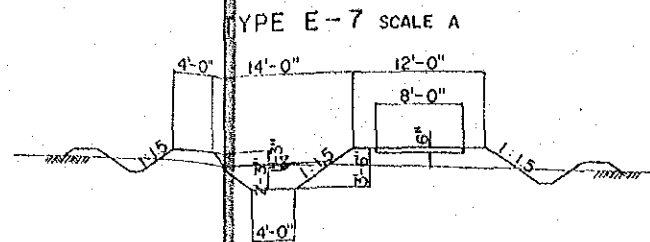
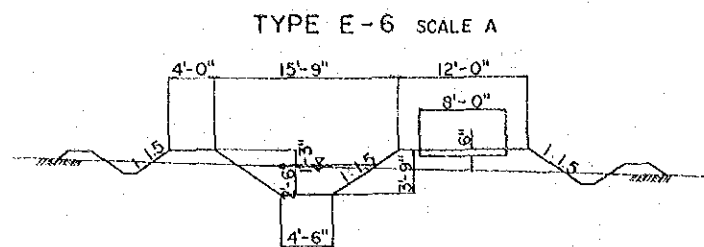
THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
SYSTEM D₃
D₁-EAST NEW BRANCH CANAL
PROFILE
(IMPROVEMENT)

JAPAN INTERNATIONAL COOPERATION AGENCY JWG. No.
TOKYO JAPAN

Existing D₁ East Canal

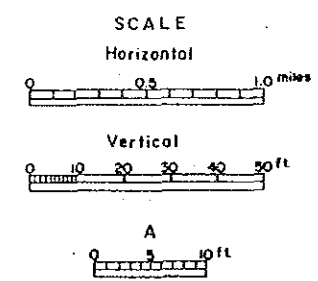
Existing R B I O Canal



Grade	0.00045									
Depth of Exca.	5.0	2.4	0.6	0.8	1.2	1.1	1.5			
Hight of Embon.			0.2							
Top of Bank	118.75	116.37	115.90	115.65	114.94	113.94	112.75	112.28	110.53	106.25
Water Surf.	117.50	115.12	114.65	114.40	113.69	112.69	111.50	110.95	109.28	105.00
Bottom of Canal	115.00	112.62	112.15	111.85	111.44	110.44	109.25	108.78	107.78	103.50
Ground Elev.	120.0	115.0	112.0	112.0	111.44	110.44	109.25	108.78	107.78	105.0
Accum. Dist.	0	1.00	1.20	1.50	2.00	2.20	3.00	4.00		
Dist.		1.00	0.20	0.30	0.50	0.20	0.80	1.00		
Station No.	NO. 0	NO. 1	+0.20	+0.50	NO. 2	+0.20	NO. 3	NO. 4		

LEGEND

- A.O. Aqueduct
- T.O. Turnout
- D.S. Division Structure
- C.G. Check Gate
- M.D. Water Measuring Divice
- S.W. Spillway & Wasteway

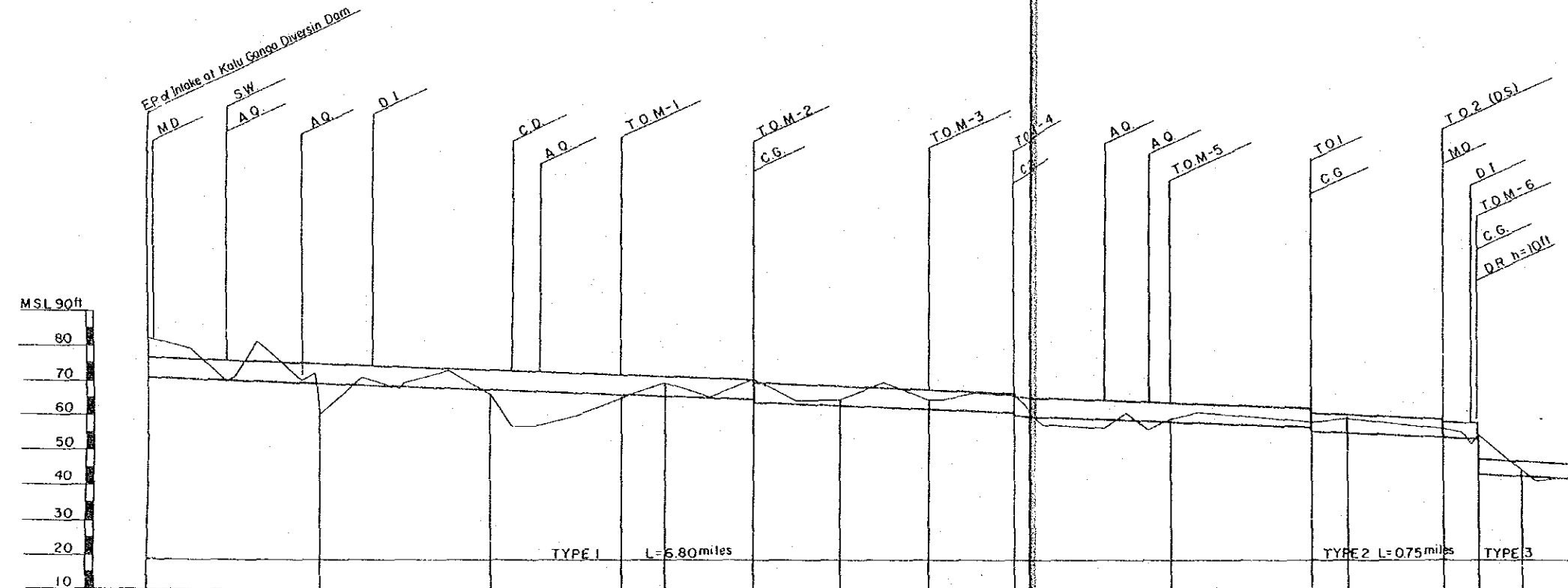
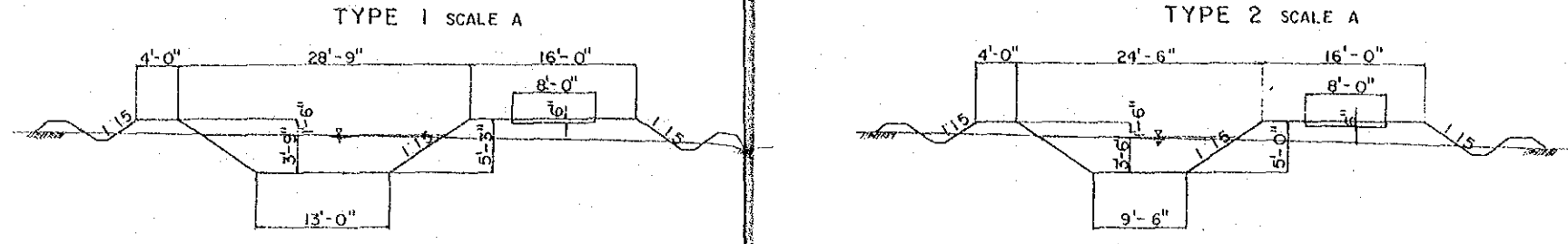


GOVERNMENT OF DEMOCRATIC SOCIALIST
 REPUBLIC OF SRI LANKA
 MINISTRY OF MAHAWELI DEVELOPMENT

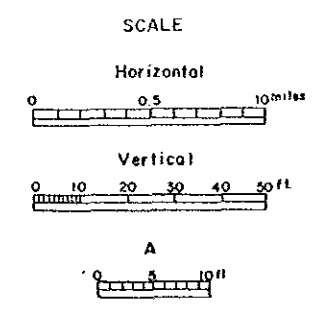
THE STUDY ON EXTENSION OF
 THE MORAGAHARANDA AGRICULTURAL
 DEVELOPMENT PROJECT

TITLE OF DRAWINGS
 SYSTEM D₁
 D₁-EAST NEW BRANCH CANAL
 PROFILE

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
 TOKYO JAPAN



- LEGEND
- A Q Aqueduct
 - C D Cross Drain
 - D I Drainage Inlet
 - T O Turnout
 - D S Division Structure
 - C G Check Gate
 - M D Water Measuring Divice
 - D R Drop
 - S W Spillway & Wasteway



Grade	0.00035																					
Depth of Excd.						3.5	5.5	6.5	1.4	2.3	4.2	5.2		0.1	0.6	1.6	3.0	1.2	0.1	0.1	0.1	
Hight of Embon.																						
Top of Bank	7625	7625	7440	7440	7255	7255	7117	7071	6978	6878	6786	6693	6601	6316	6168	6043	6001	5885	5810	5767	4714	
Water Surf.	7475	7475	7290	7290	7105	7105	6967	6921	6828	6728	6636	6543	6451	6166	6018	5893	5851	5735	5685	5642	4589	
Bottom of Canal	7100	7100	6915	6915	6730	6730	6592	6546	6453	6353	6261	6168	6076	5791	5643	5543	5501	5385	5342	4342	4289	
Ground Elev.	81.3	81.3	600	600	660	660	650	690	700	640	640	640	650	580	570	580	580	550	535	535	430	
Accum. Dist.	0	1.00	1.00	2.00	2.75	3.00	3.50	4.00	4.50	5.00	5.00	5.00	6.00	6.00	6.80	7.00	7.55	7.55	7.75	8.00	8.00	
Dist.	0	1.00	1.00	1.00	0.75	0.25	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	0.80	0.20	0.55	0.20	0.20	0.25	0.25	
Station NO.	NO.0	NO.1	NO.2	NO.2	+0.75	NO.3	+0.50	NO.4	+0.50	NO.5	NO.5	NO.5	NO.5	NO.6	+0.80	NO.7	+0.55	+0.75	NO.8	NO.8	NO.8	

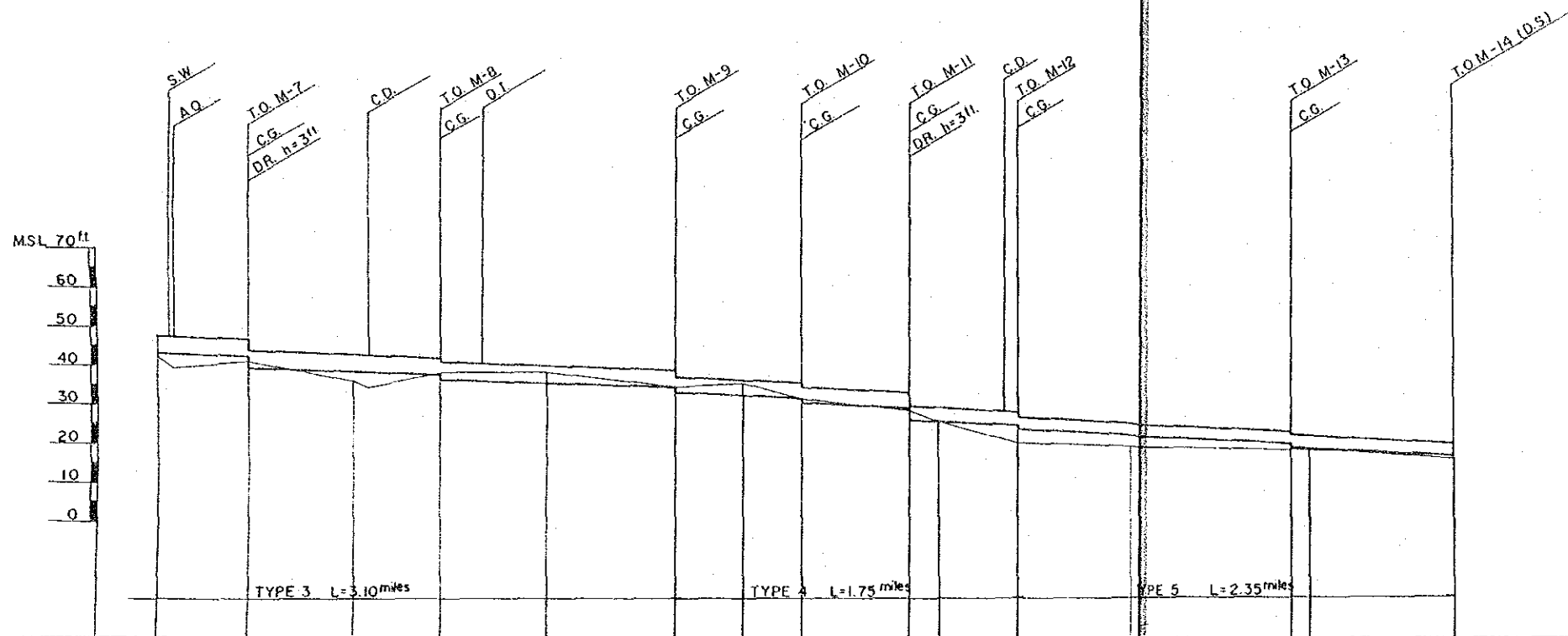
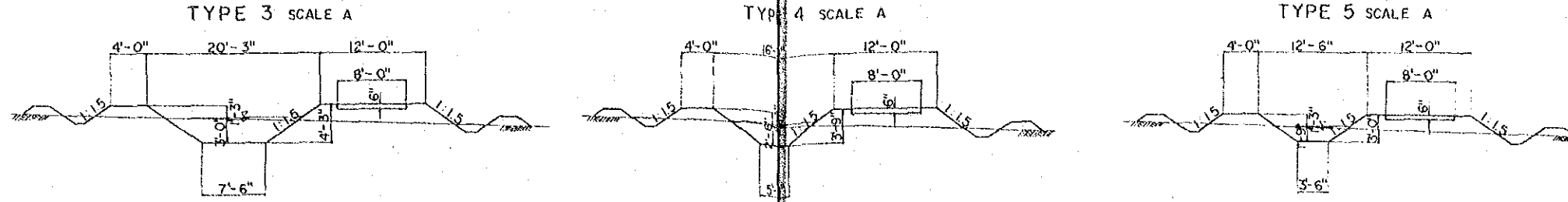
GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
SYSTEM A/D
MAIN CANAL
PROFILE (1)

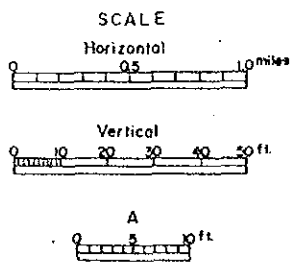
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

DWG. No.



- ### LEGEND
- A.O. — Aqueduct
 - C.D. — Cross Drain
 - D.I. — Drainage Inlet
 - T.O. — Turnout
 - D.S. — Division Structure
 - C.G. — Check Gate
 - M.D. — Water Measuring Device
 - D.R. — Drop
 - S.W. — Spillway & Wasteway

Grade	0.00040															0.00045																					
Depth of Exca.	0.1	2.1					1.2	2.2	3.3		0.8	1.7	3.5	0.2	1.2	2.6																					
Hight of Embon.																																					
Top of Bank	47.14	46.19	45.19				41.08	40.08	38.92		37.55	36.05	34.51	33.51	32.20	29.20																					
Water Surf.	45.89	44.94	41.94				39.83	38.83	37.67		36.30	34.80	33.26	32.26	30.95	27.95																					
Bottom of Canal	42.89	41.94	38.94				36.83	35.83	34.67		33.30	32.30	30.76	29.76	28.45	25.45																					
Ground Elev.	43.0	41.0	36.0				38.0	35.0	34.0		34.0	31.0	28.0	25.0	20.0	18.0																					
Accum. Dist.	8.00	8.45	9.00				9.45	10.00	10.65		11.00	11.30	11.85	12.00	12.40	13.90																					
Dist.	0.25	0.45	0.55				0.45	0.55	0.65		0.35	0.50	0.55	0.15	0.40	0.10																					
Station No.	NO. 8	+0.45	NO. 9				+0.45	NO. 10	+0.65	NO. 11	+0.30	+0.85	NO. 12	+0.40	NO. 13	NO. 14																					



GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

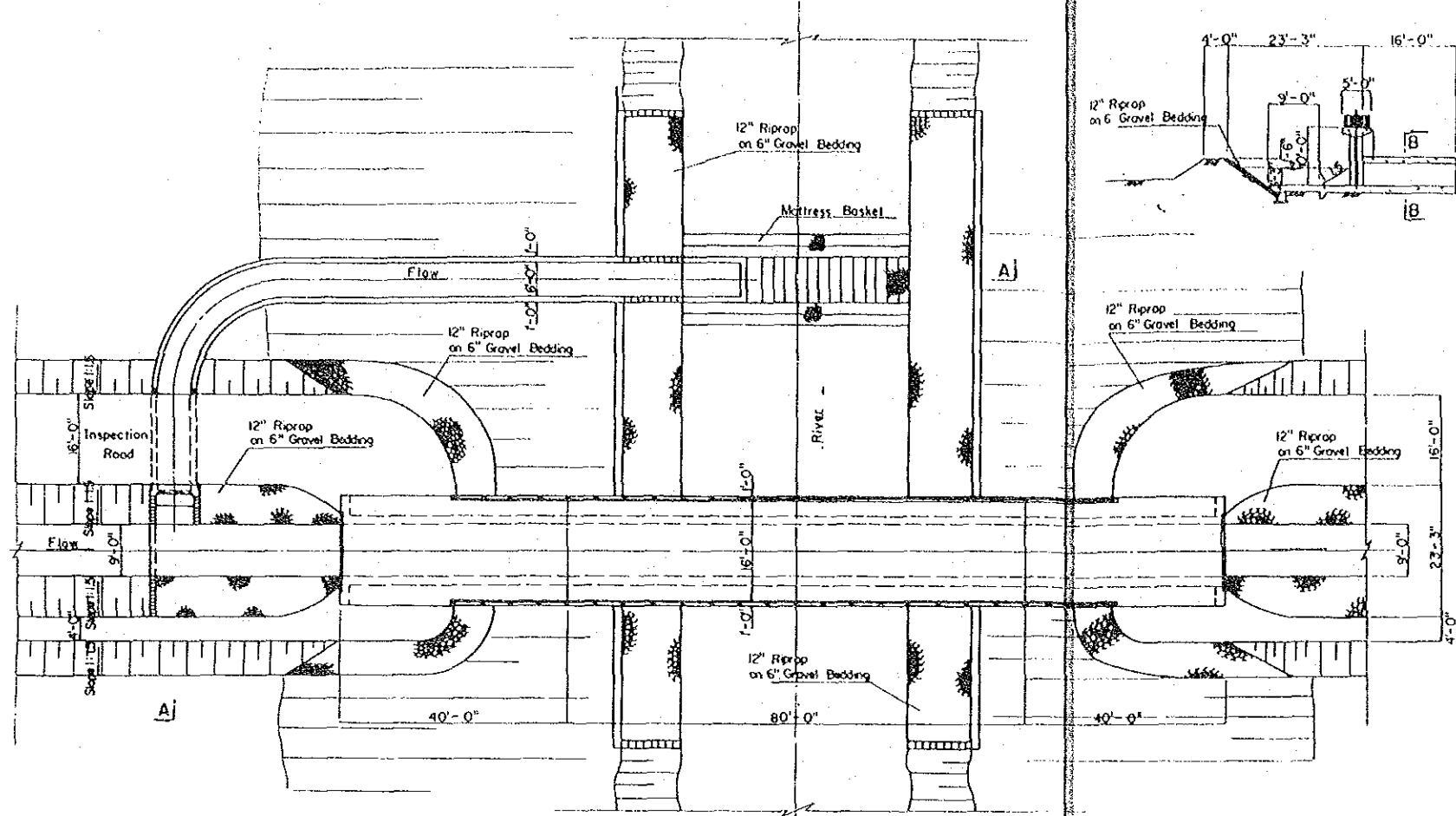
THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
SYSTEM A/D
MAIN CANAL
PROFILE (2)

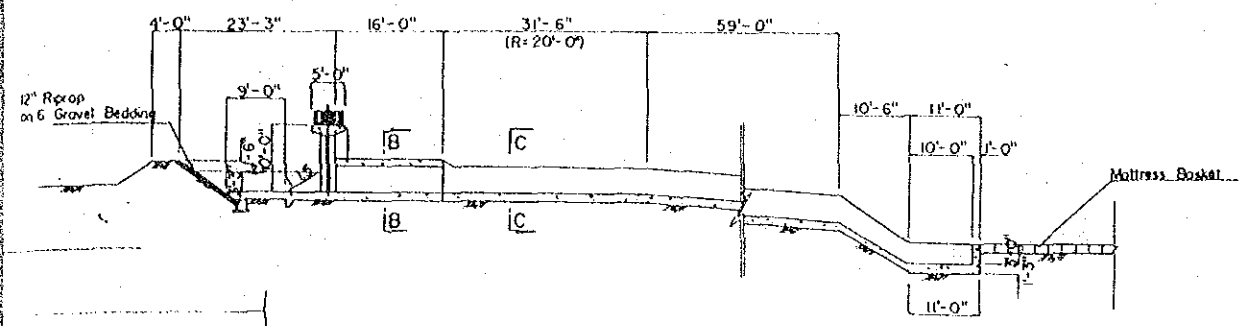
JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
TOKYO JAPAN

AQUEDUCTS

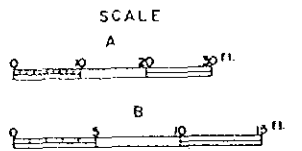
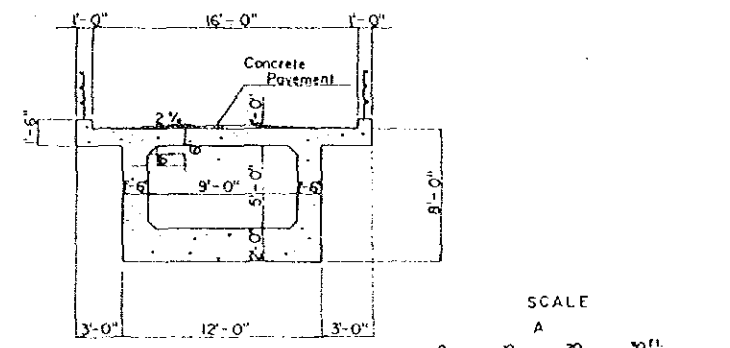
PLAN SCALE A



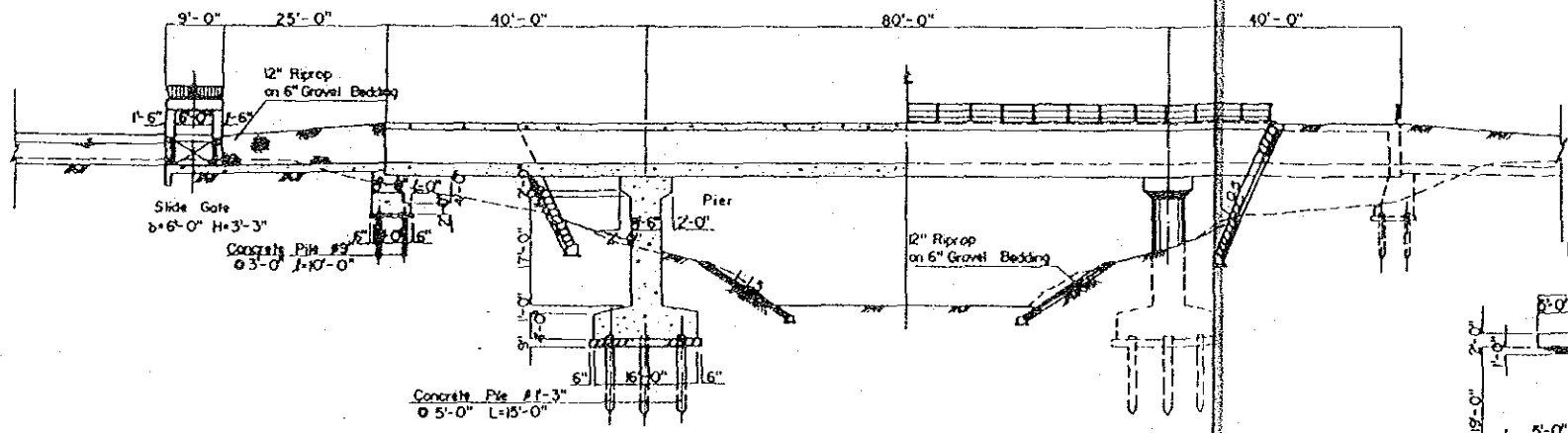
WASTE WAY (SECTION A-A) SCALE A



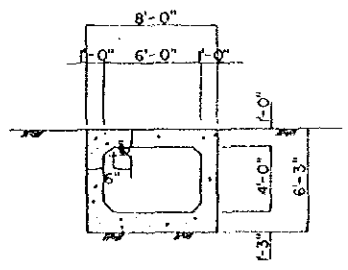
AQUEDUCT SECTION SCALE B



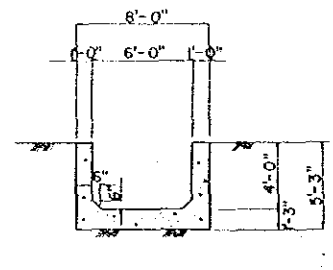
PROFILE SCALE A



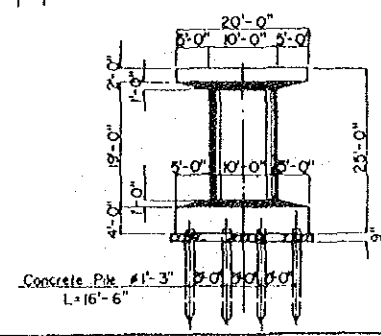
SECTION B-B SCALE B



SECTION C-C SCALE B



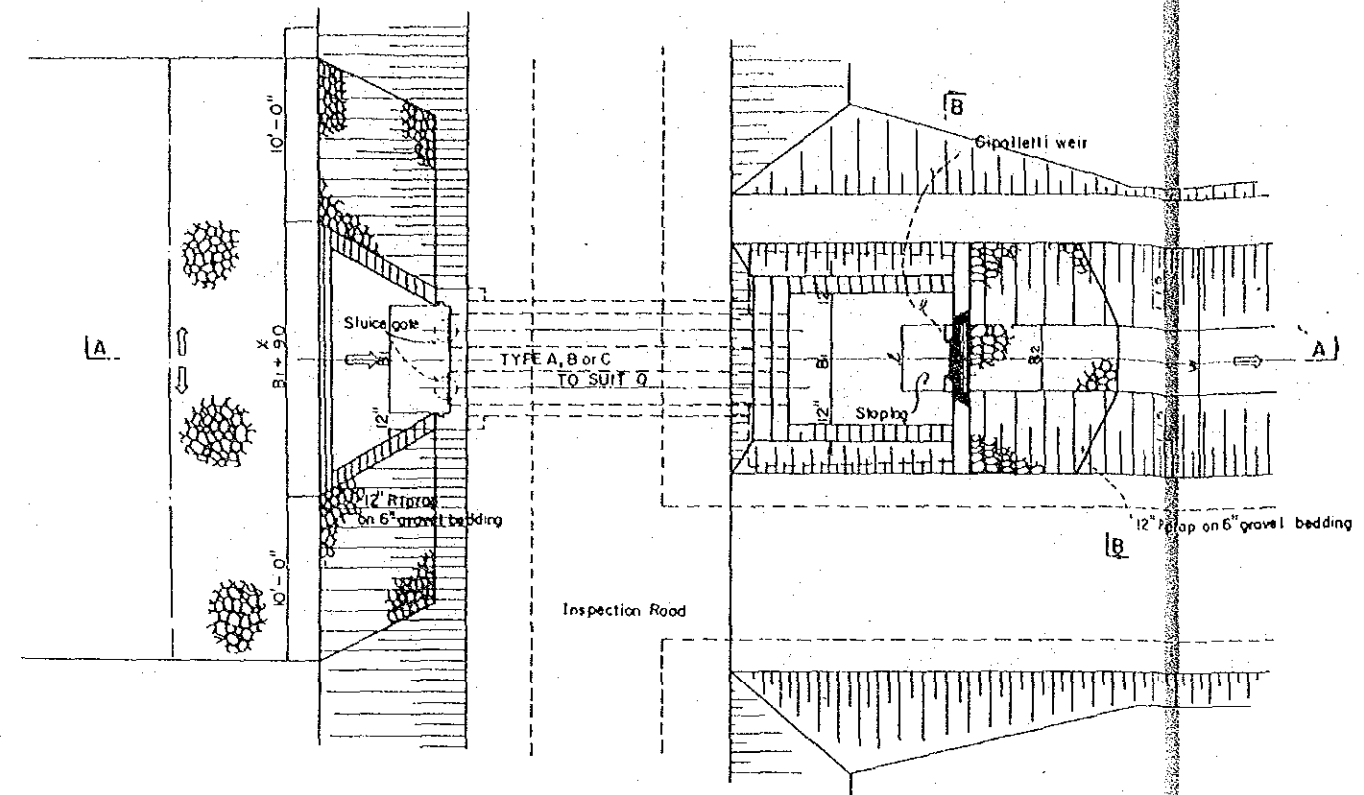
PIER SCALE A



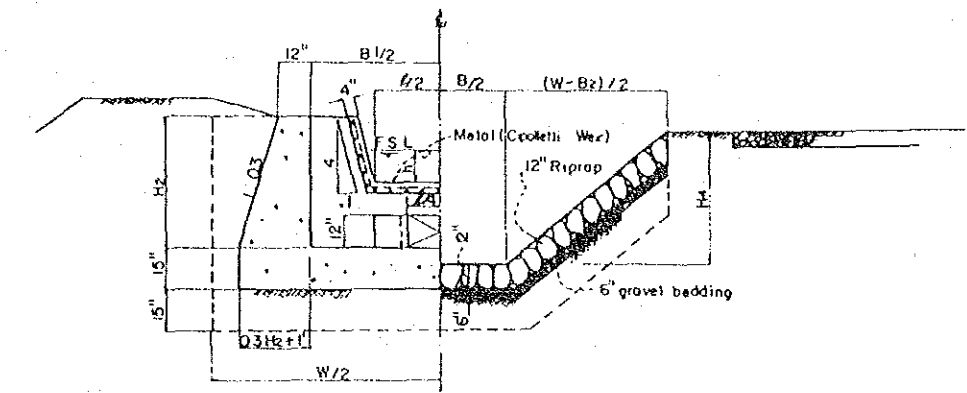
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
AQUEDUCTS	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

TURNOUTS

PLAN

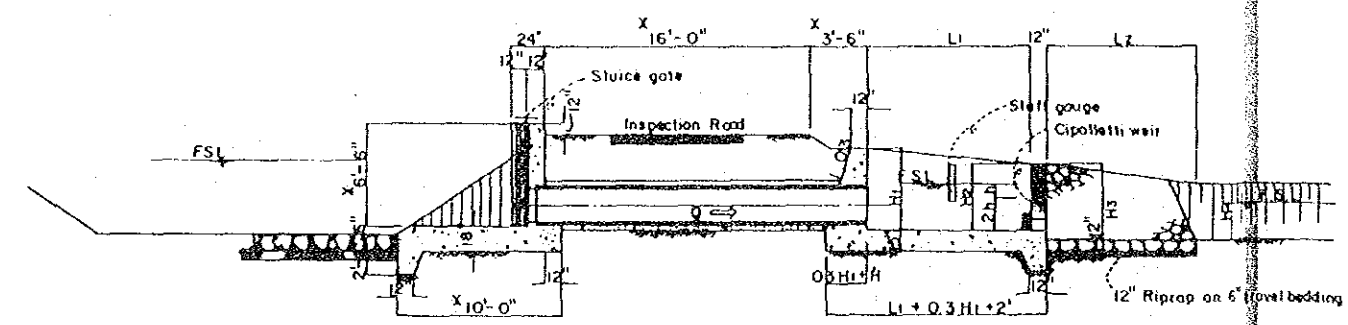


SECTION B-B



SECTION A-A

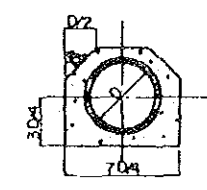
Note: X varies with count



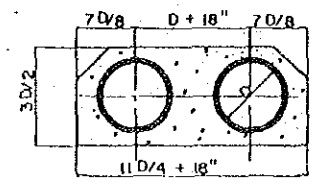
DIMENSIONS (Feet)

TYPE NO	Q (CFS)	D	b x o	L	h	H1	H2	H3	H4	B1	B	W	L1	L2
A	1	3	1.00	—	2.0	0.6	2.75	2.75	3.00	2.0	5.0	2.0	8.0	6.0
	2	5	1.25	—	3.0	0.7	3.00	3.00	3.25	2.0	6.0	3.0	9.0	8.0
	3	10	1.50	—	3.5	0.9	4.00	4.00	4.25	2.75	6.5	3.5	11.75	8.0
	4	20	2.50	—	4.0	1.3	5.25	5.25	5.50	3.25	7.0	4.0	13.75	9.0
B	1	40	2.50	—	5.0	1.8	6.50	6.50	6.75	3.75	9.0	5.0	16.25	11.0
	2	60	3.00	—	7.0	1.8	6.75	6.75	7.00	4.00	11.0	7.0	19.0	14.0
	3	80	3.50	—	8.0	2.0	7.25	7.25	7.50	4.25	12.0	8.0	20.75	15.0
	4	100	4.00	—	9.0	2.3	8.25	8.25	8.50	4.75	13.0	9.0	23.25	16.0
	5	130	4.50	—	10.0	2.5	9.00	9.00	9.50	5.00	14.0	10.0	25.0	17.0
C	1	160	—	50 x 40	12.0	2.5	9.00	9.00	9.50	5.25	16.0	12.0	27.75	20.0
	2	200	—	50 x 40	14.0	2.7	9.50	9.50	10.00	5.50	18.0	14.0	30.5	22.0

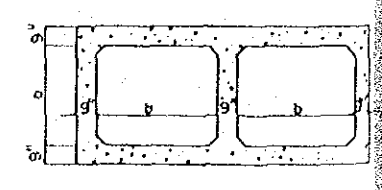
TYPE A



TYPE B



TYPE C



GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELE DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS

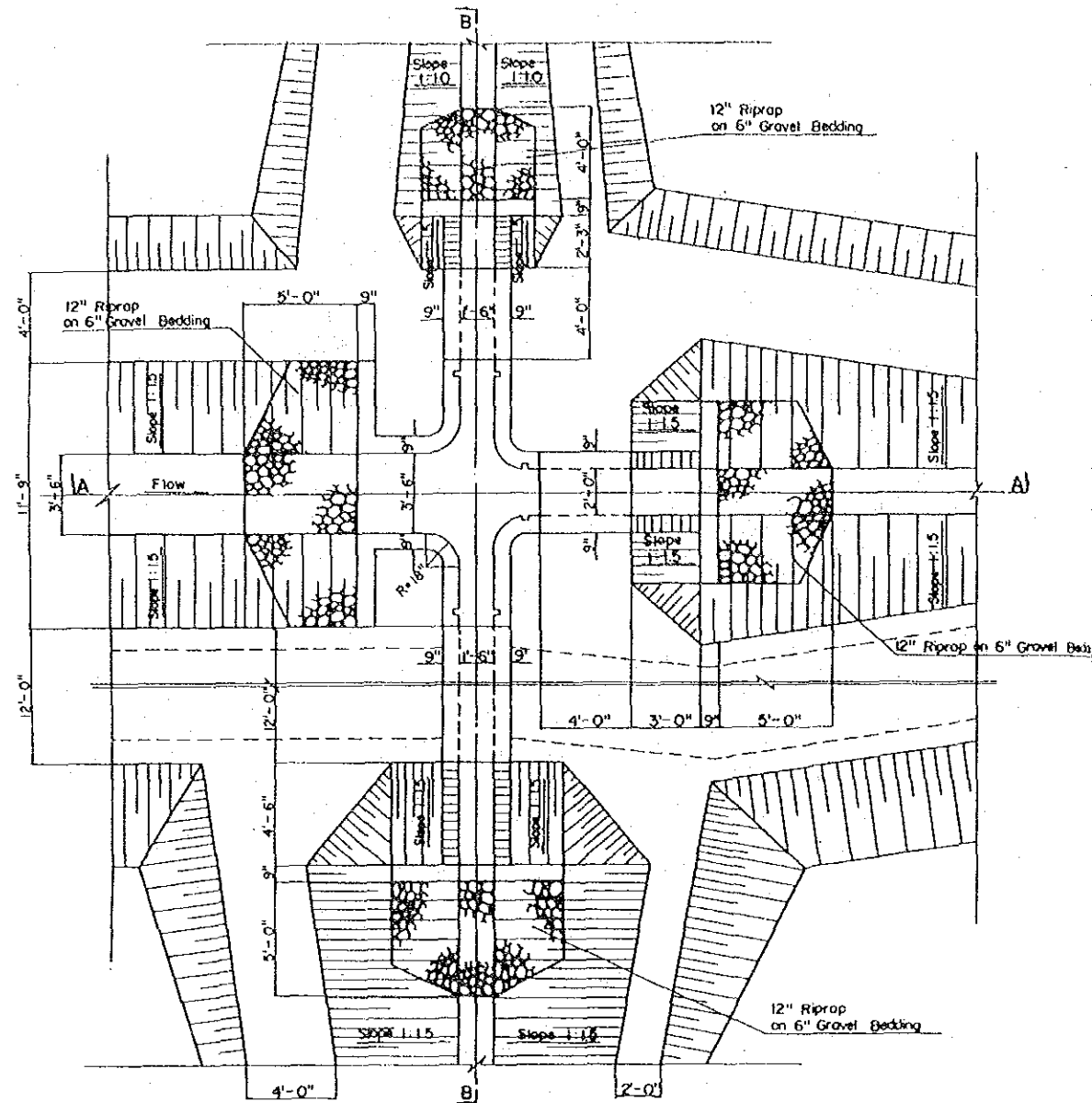
TURNOUTS

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

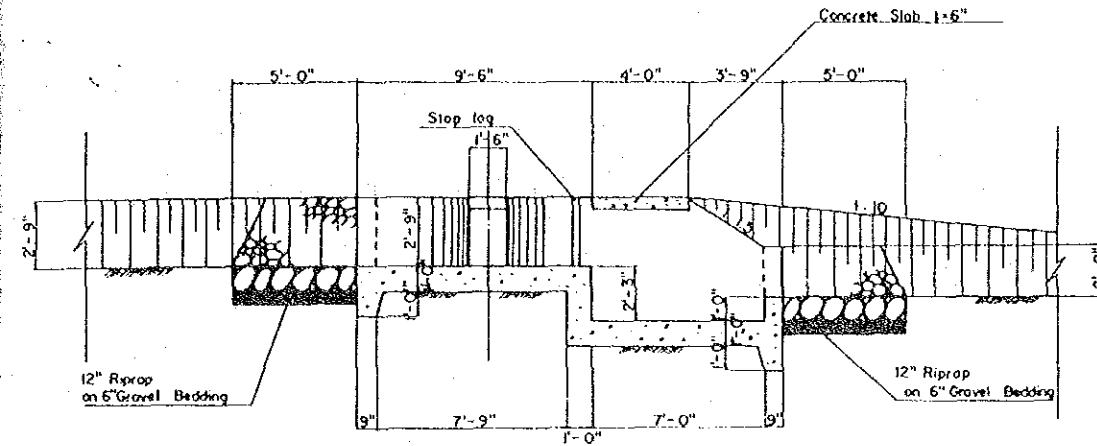
DWG. No.

DIVERSION STRUCTURES TYPE B

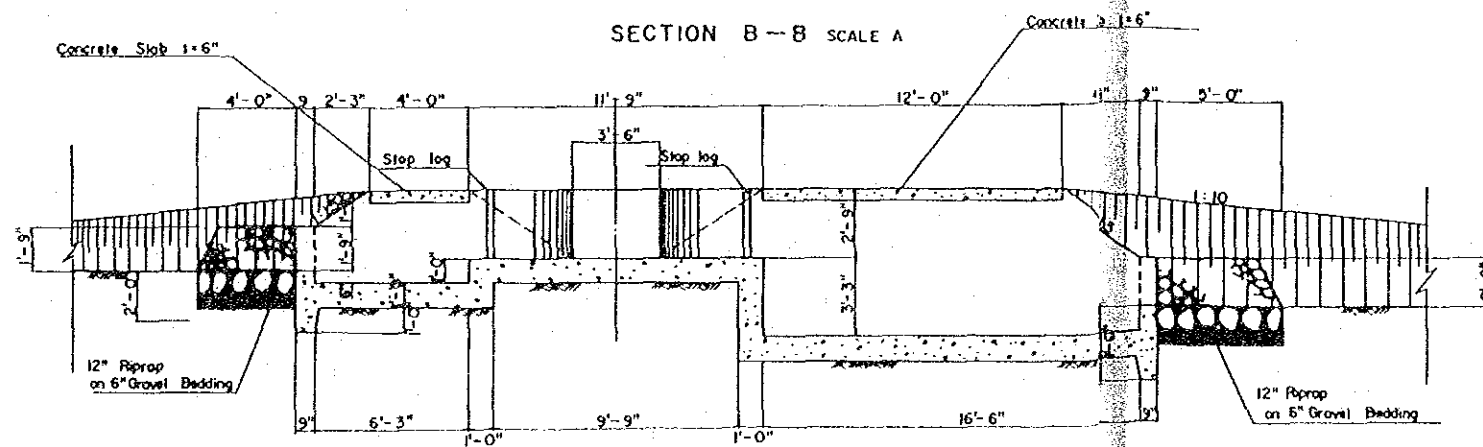
PLAN SCALE A



SECTION A-A SCALE A



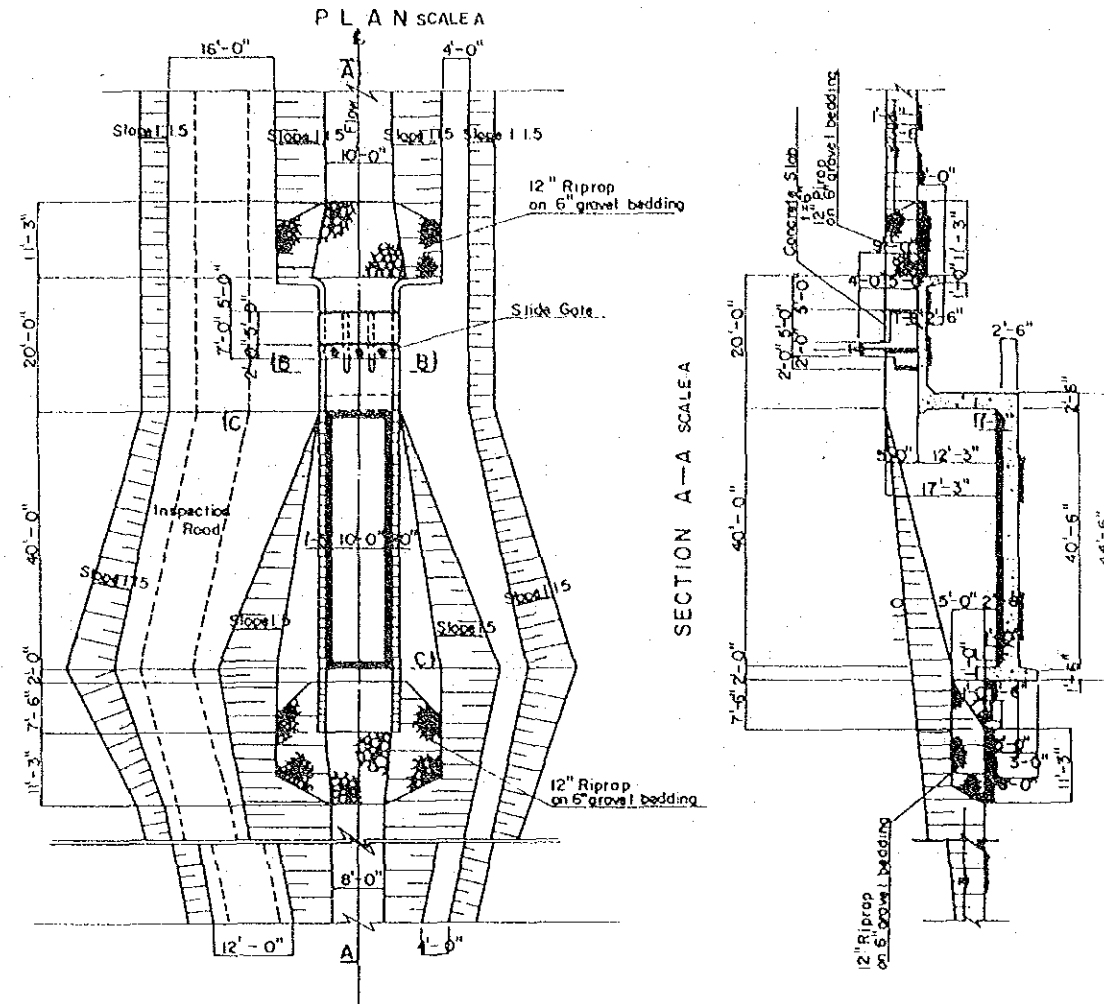
SECTION B-B SCALE A



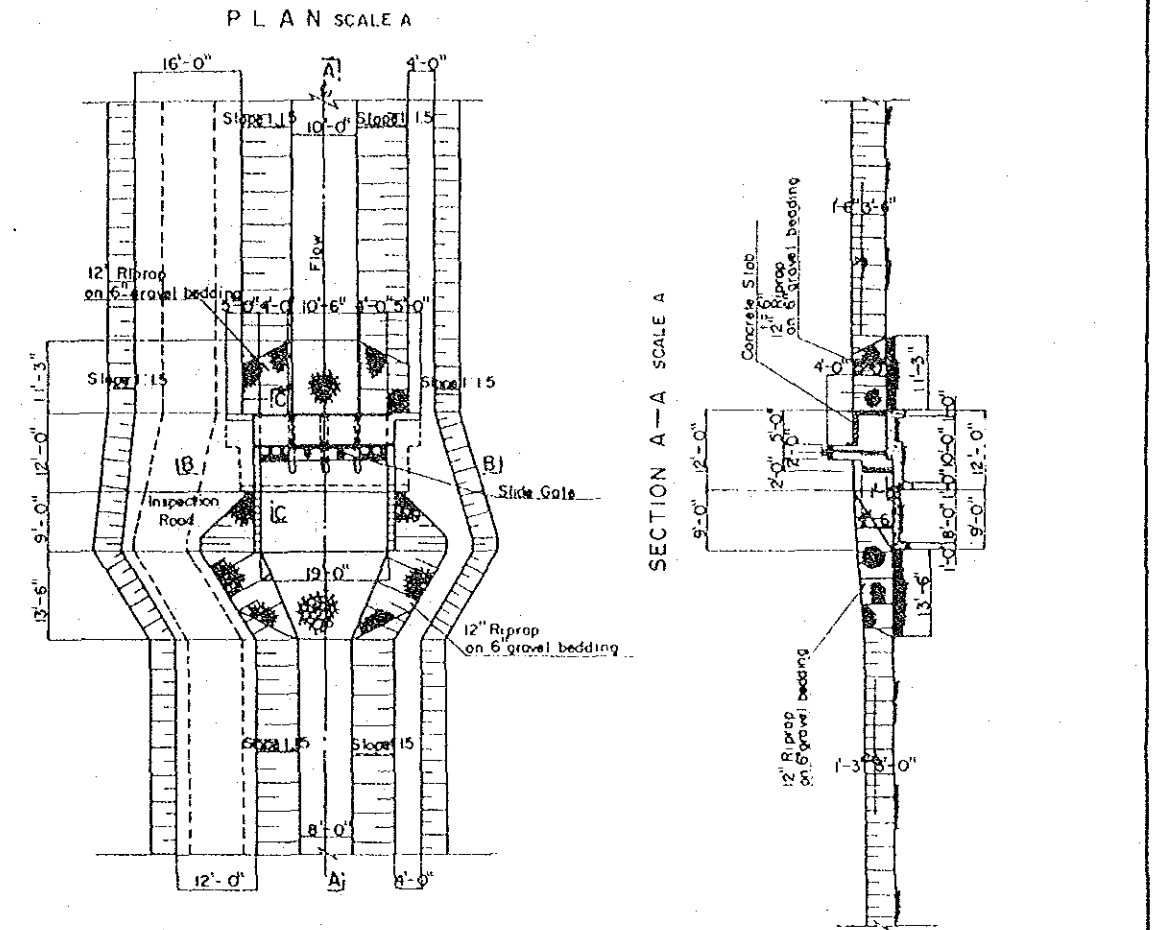
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
DIVERSION STRUCTURES TYPE B	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

CHECK STRUCTURES

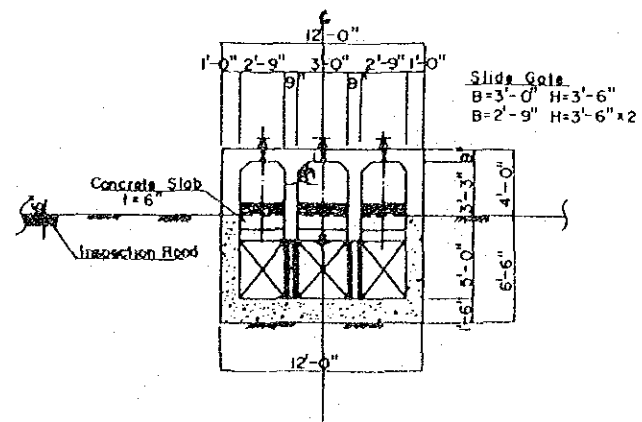
TYPE 1



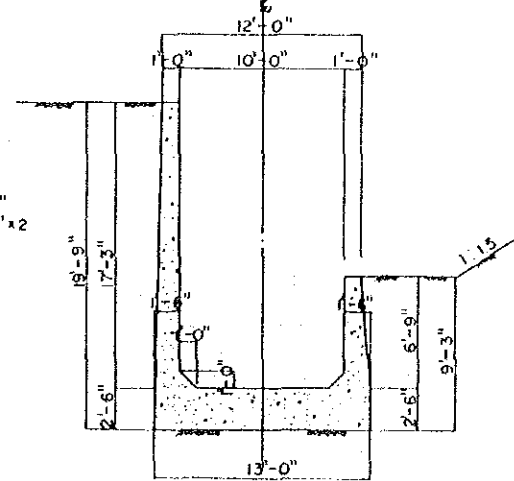
TYPE 2



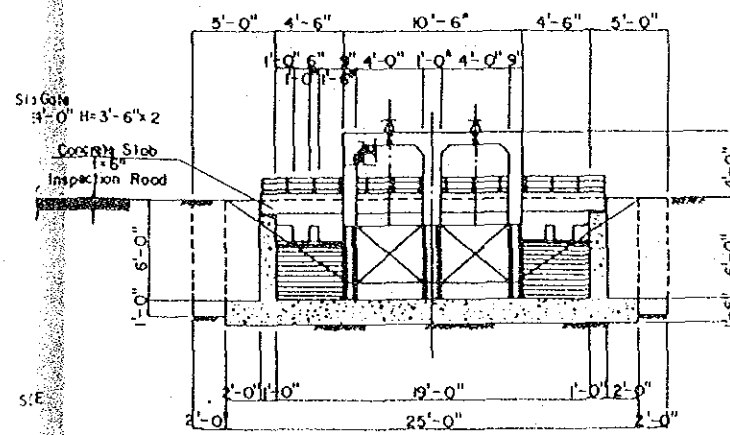
SECTION B-B SCALE B



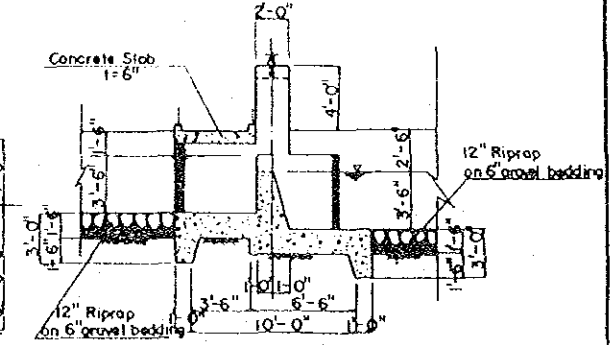
SECTION C-C SCALE B



SECTION B-B SCALE B



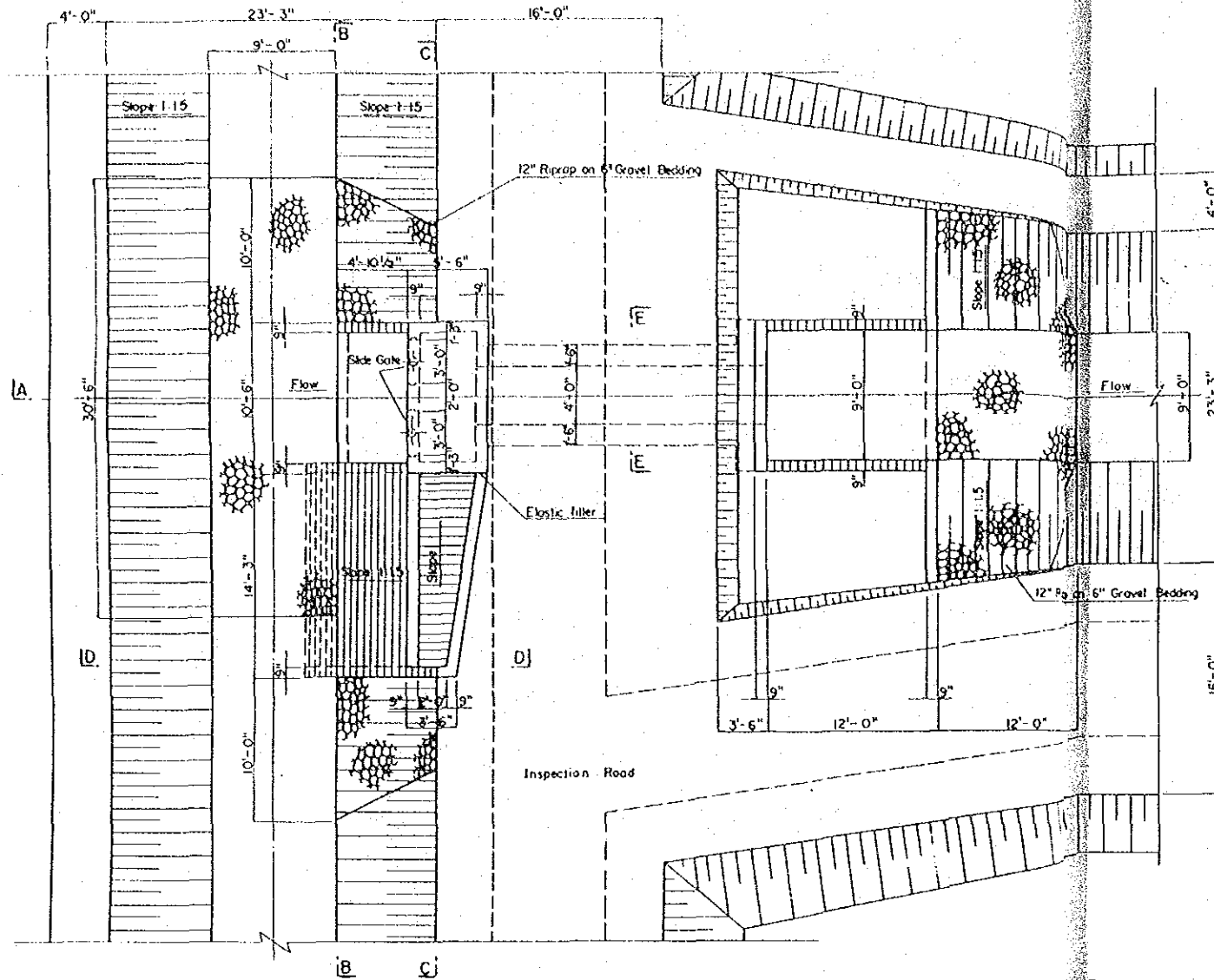
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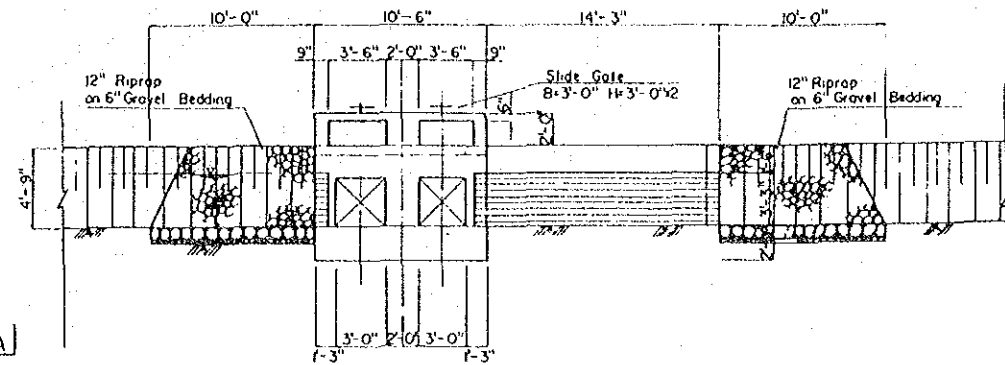
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS CHECK STRUCTURES	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

SPILLWAYS & WASTEWAYS

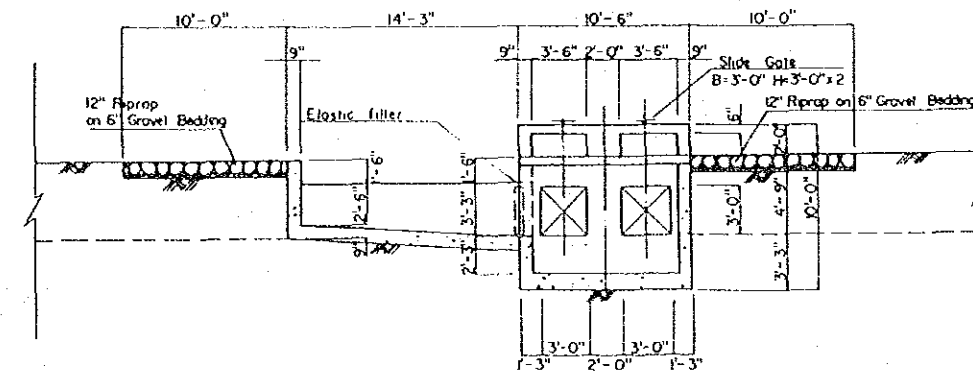
PLAN SCALE A



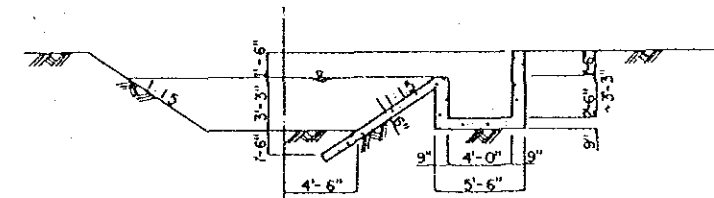
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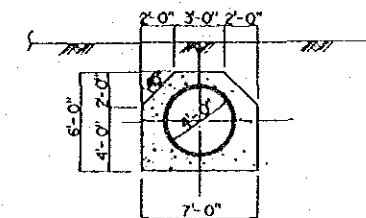
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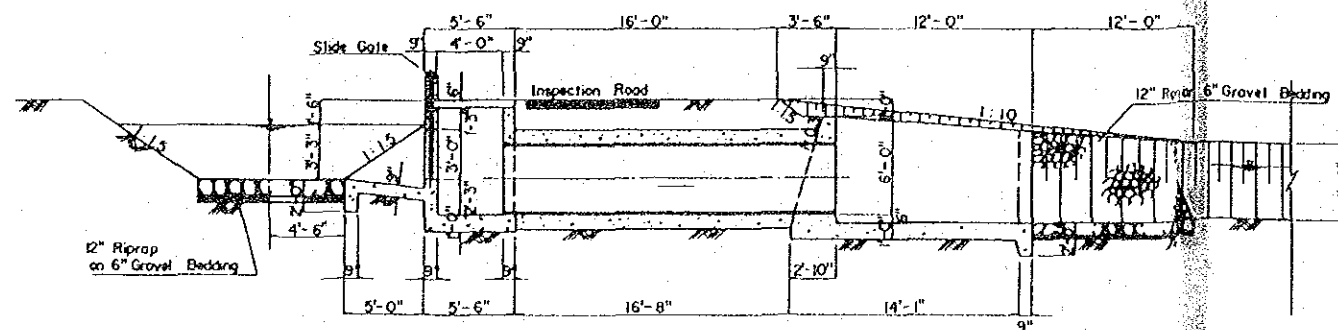
SECTION D-D SCALE A



SECTION E-E SCALE A



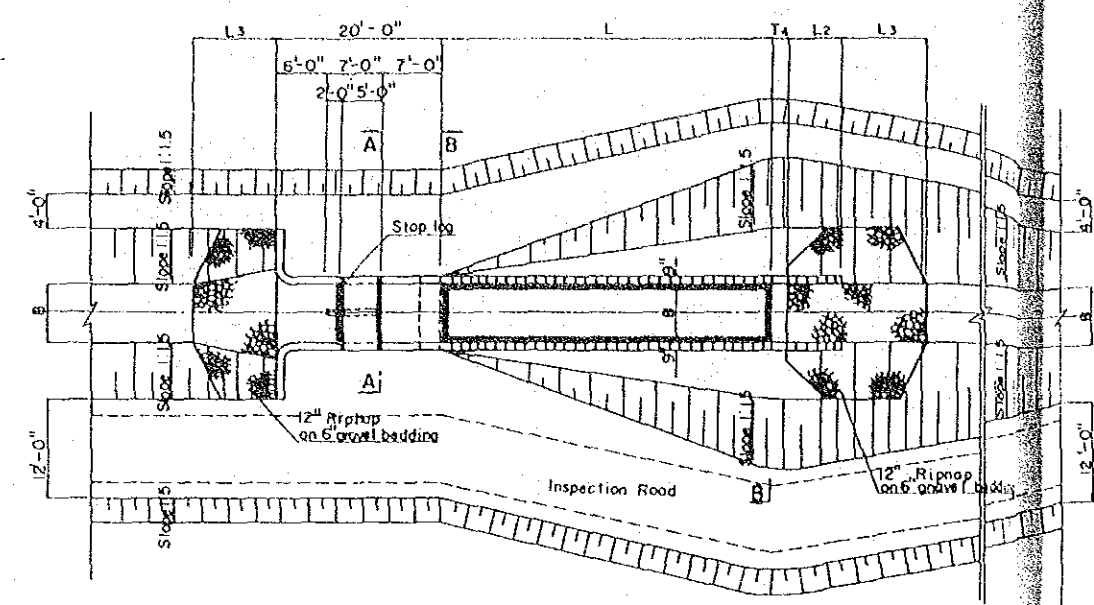
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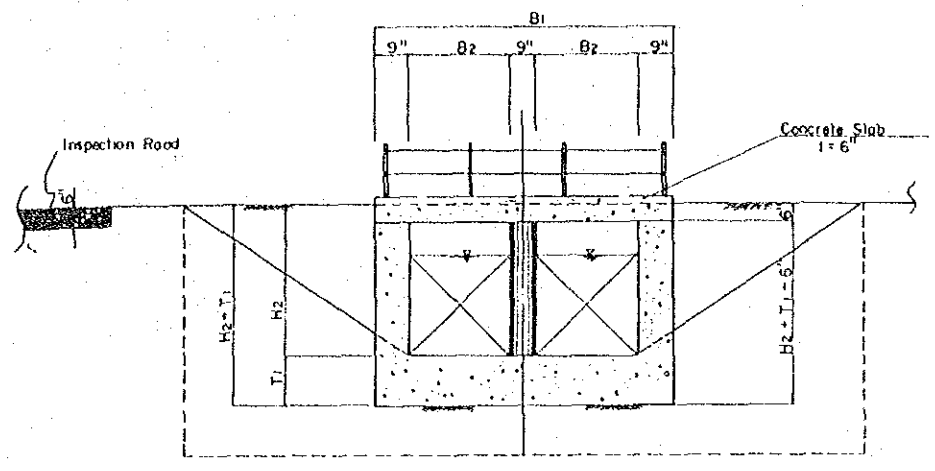
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAVELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS	
SPILLWAYS & WASTEWAYS	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

DROP STRUCTURES

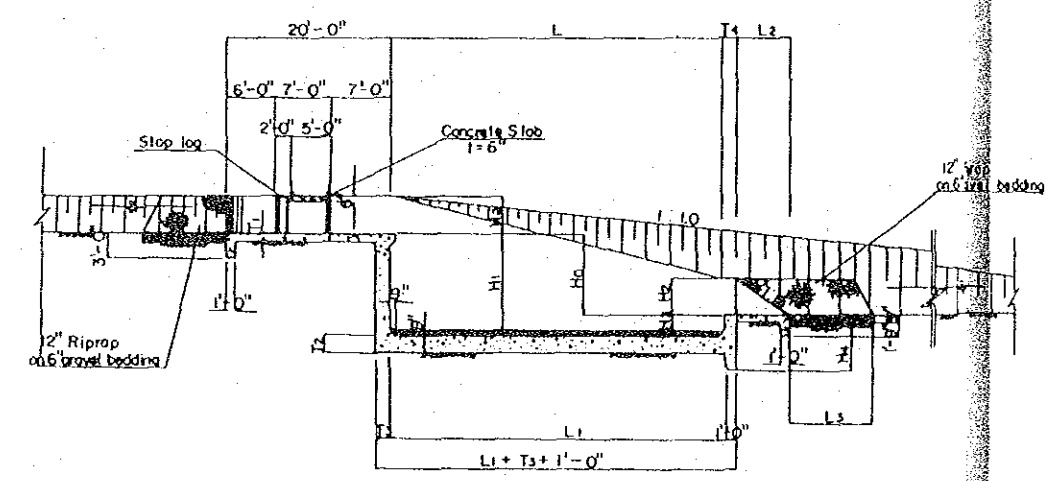
P.L.A.N SCALE A



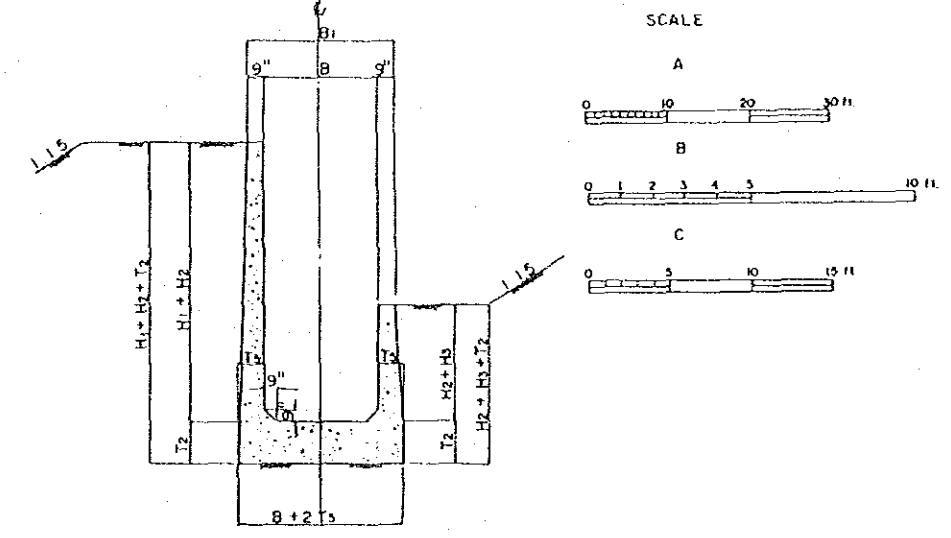
SECTION A-A SCALE B



PROFILE SCALE A



SECTION B-B SCALE C



DIMENSION (Feet)

TYPE NO	H _b	B	B ₁	B ₂ x 2	H ₁	H ₂	H ₃	H ₄	L	L ₁	L ₂	L ₃	T ₁	T ₂	T ₃	T ₄	T ₅
I	5'-0"	5'-0"	6'-6"	4'-3"	6'-3"	3'-6"	1'-3"	5'-0"	20'-0"	20'-3"	5'-3"	7'-11"	9"	1'-0"	1'-0"	9"	1'-3"
II	8'-0"	7'-0"	8'-6"	6'-3"	10'-0"	4'-0"	1'-9"	6'-0"	30'-0"	30'-3"	6'-0"	9'-0"	1'-0"	1'-0"	1'-6"	1'-3"	1'-9"
III	10'-0"	7'-0"	8'-6"	6'-3"	11'-6"	4'-6"	1'-9"	6'-3"	40'-0"	40'-3"	6'-9"	10'-2"	1'-0"	1'-0"	1'-9"	1'-6"	1'-9"

GOVERNMENT OF DEMOCRATIC SOCIALIST
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DEVELOPMENT PROJECT

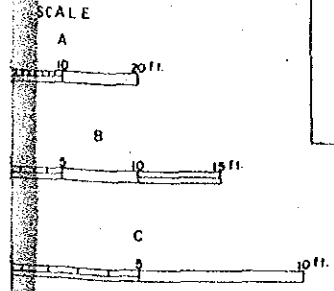
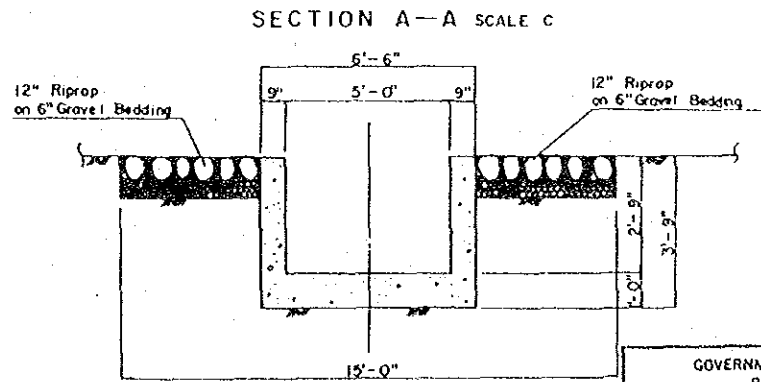
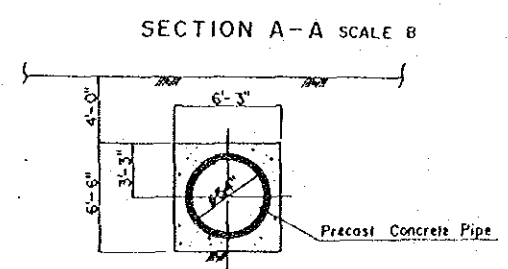
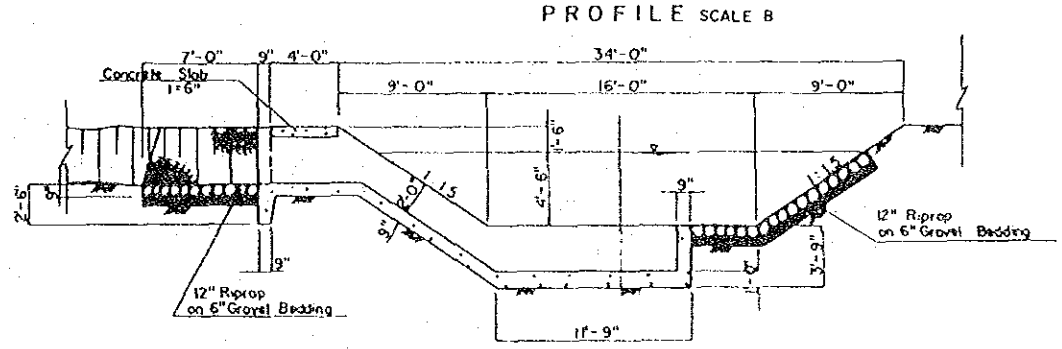
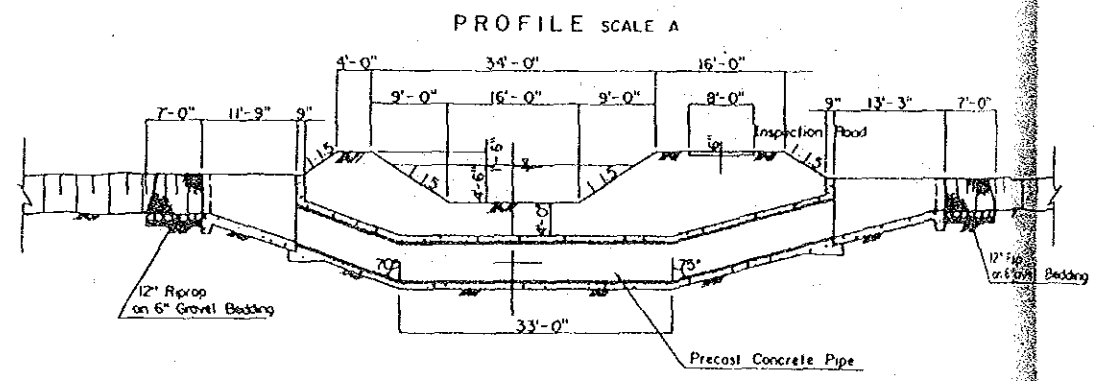
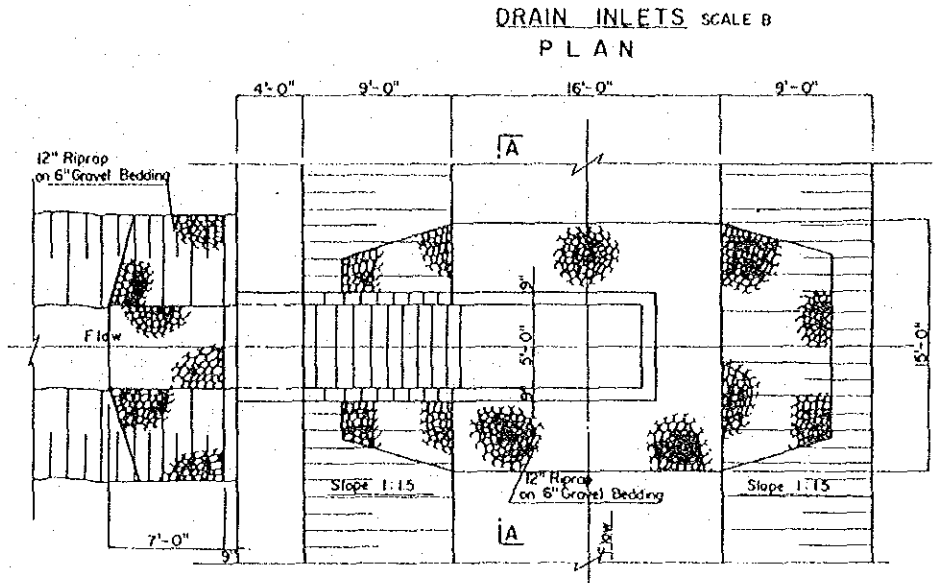
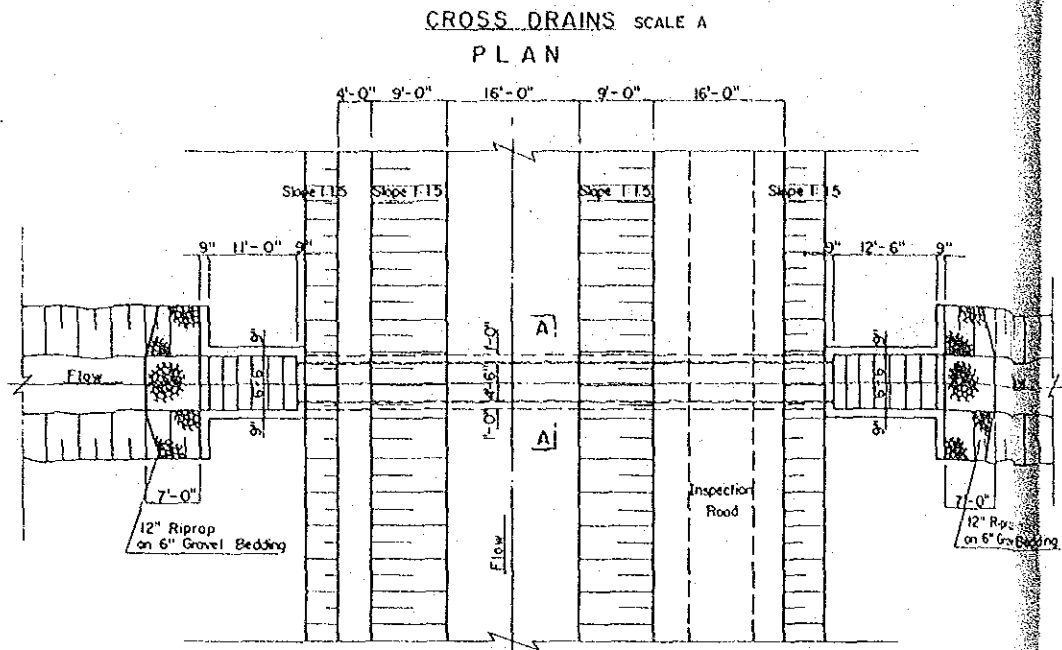
TITLE OF DRAWINGS

DROP STRUCTURES

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

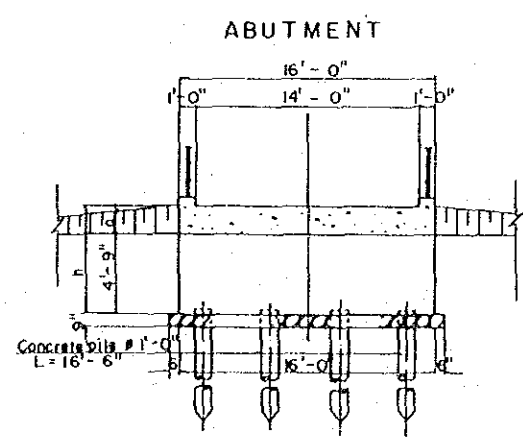
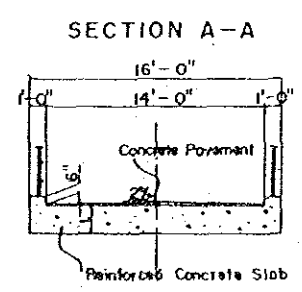
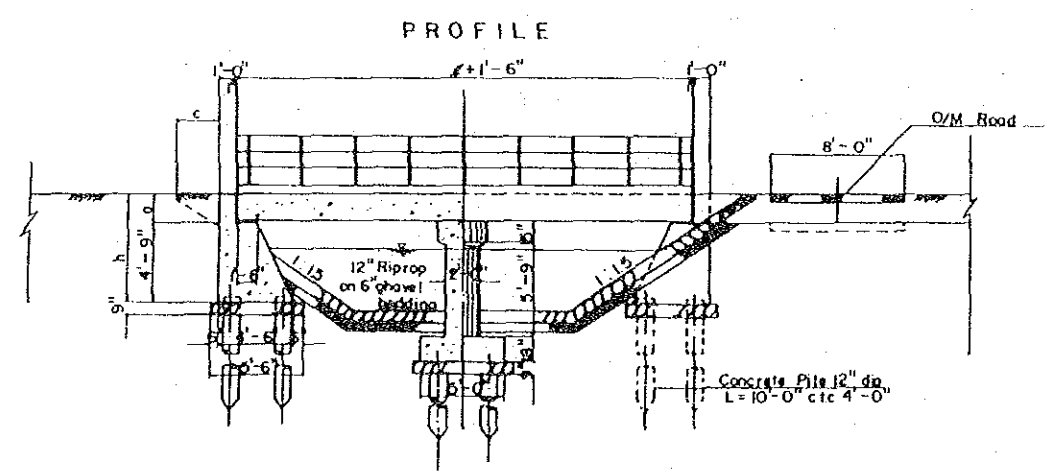
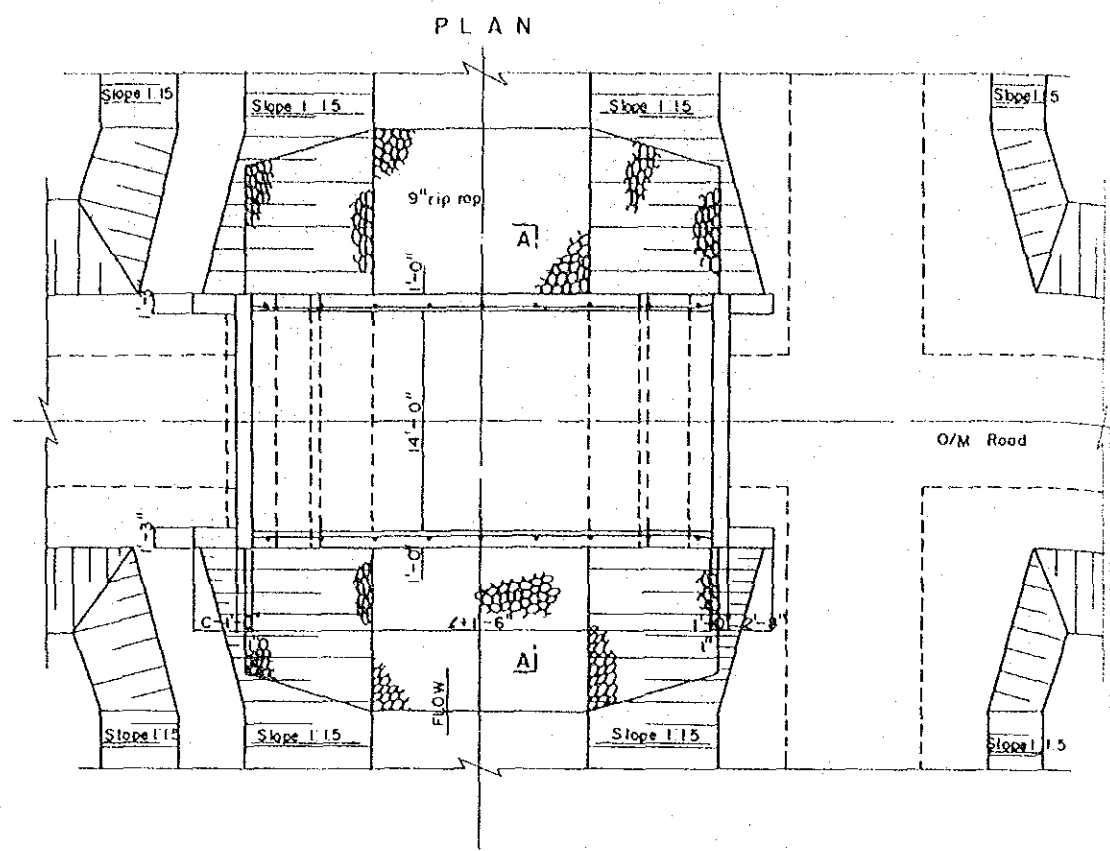
DWG. No.

CROSS DRAINS & DRAIN INLETS



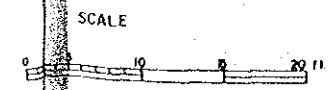
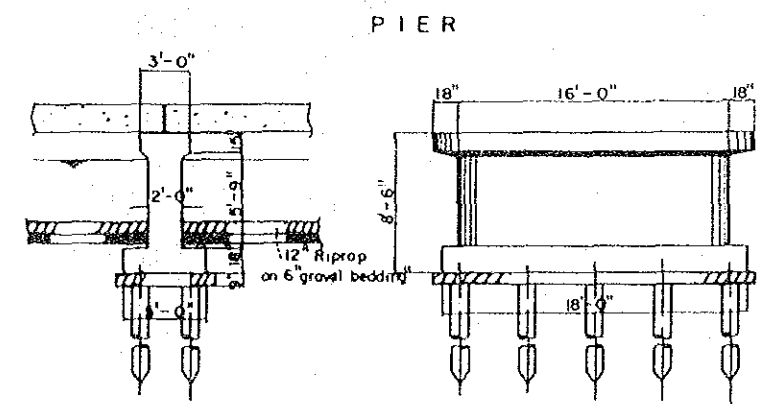
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS CROSS DRAINS & DRAIN INLETS	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

BRIDGES



DATA TABLE

TYPE	L	l	a	h	c
A	25'-0"	1'-9"	1'-9"	6'-6"	3'-0"
B	20'-0"	1'-6"	1'-6"	6'-3"	2'-9"
C	15'-0"	1'-3"	1'-3"	6'-0"	2'-3"
D	10'-0"	1'-3"	1'-3"	6'-0"	2'-3"



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DEVELOPMENT PROJECT

TITLE OF DRAWINGS

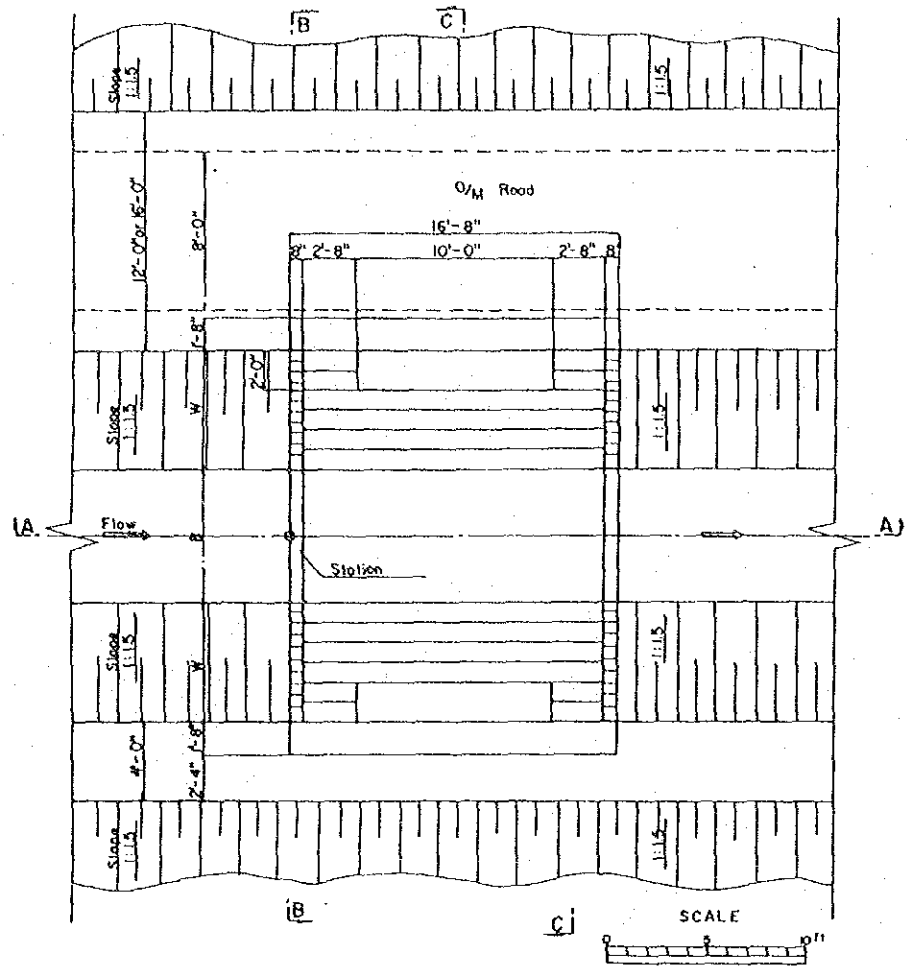
BRIDGES

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

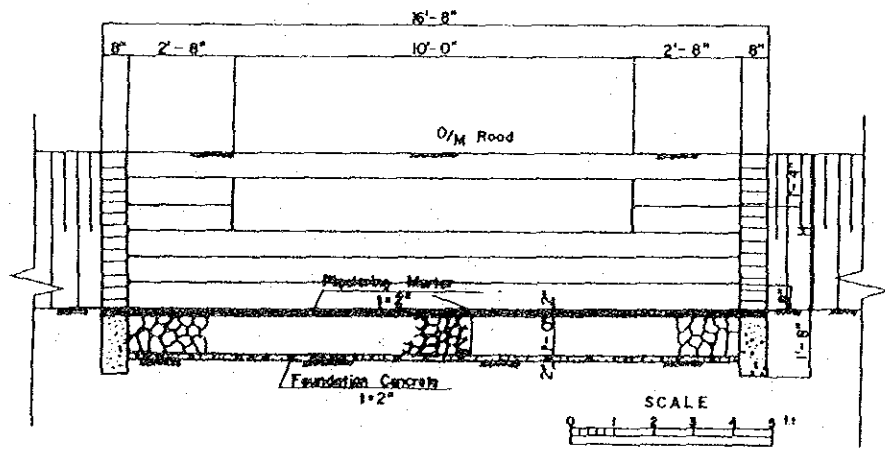
DWG. No.

BATHING WASHING PLACES

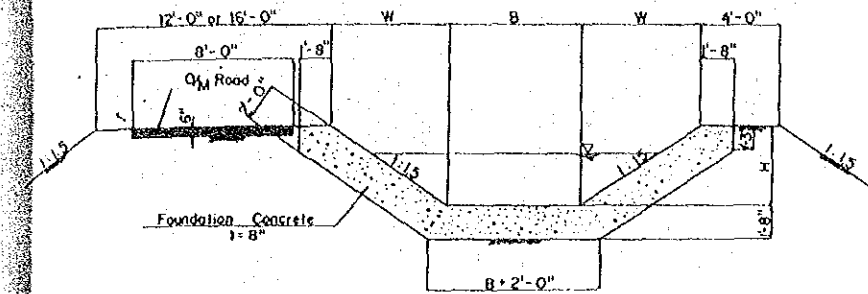
PLAN



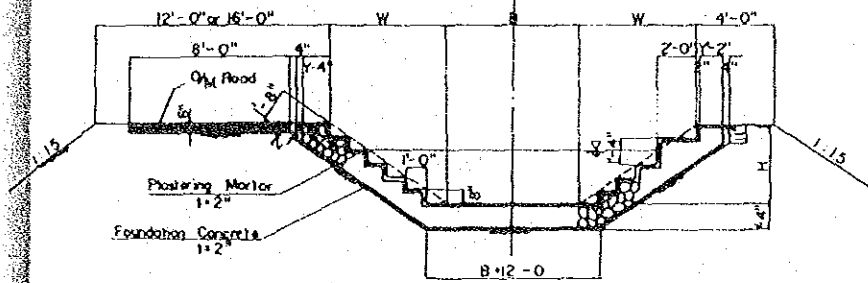
SECTION A-A



SECTION B-B



SECTION C-C

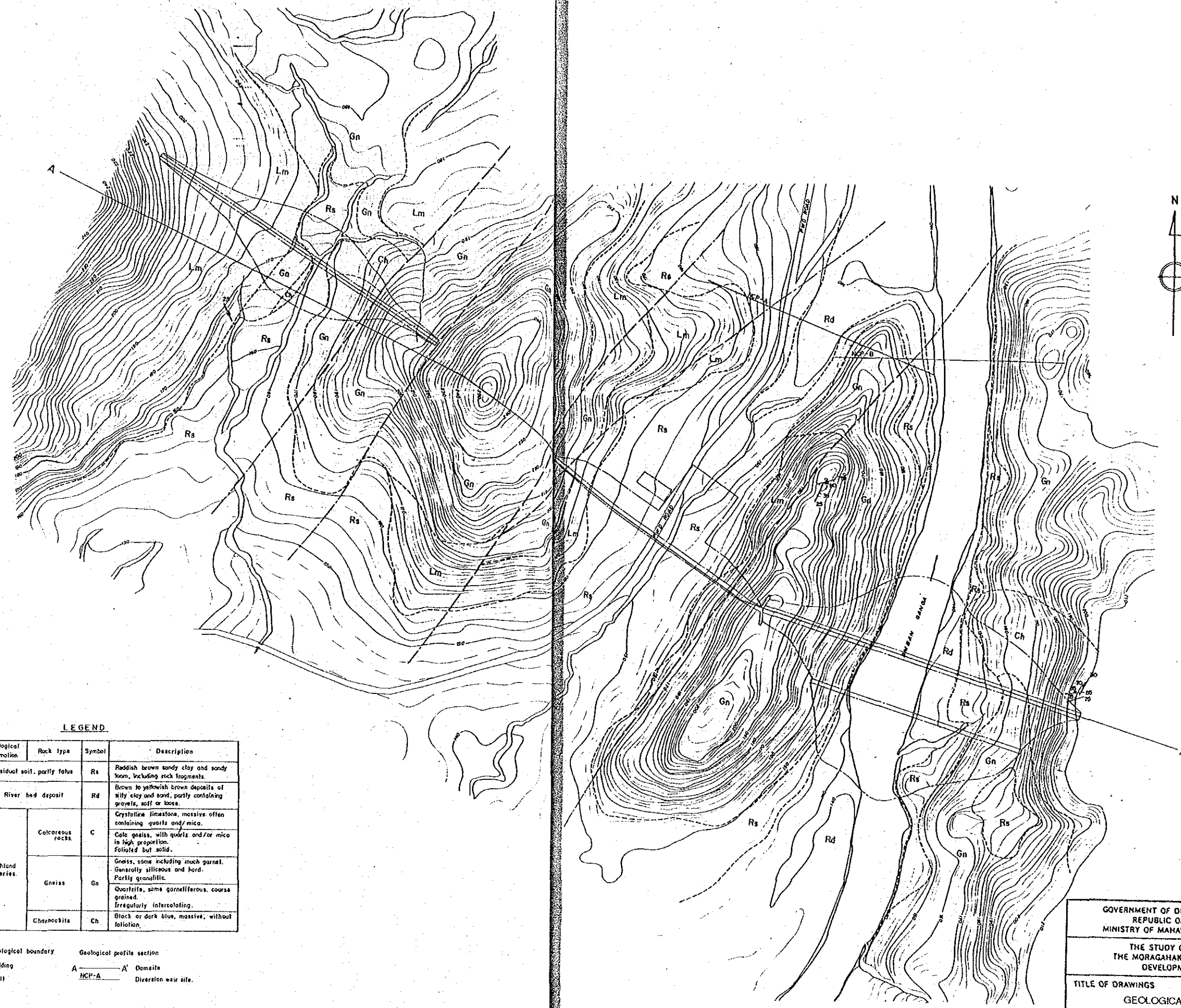


DIMENSIONS

CANAL TYPE	B	H	W
SYSTEM-01 TYPE 1-5	15'-0"	5'-6"	8'-3"
SYSTEM-02 TYPE E-3	22'-0"	4'-6"	6'-9"
SYSTEM-A ₀ TYPE 3	7'-6"	4'-3"	6'-4 1/2"

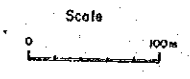
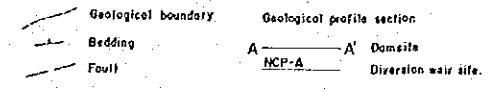
GOVERNMENT OF DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF MAHAWELI DEVELOPMENT	
THE STUDY ON EXTENSION OF THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT	
TITLE OF DRAWINGS BATHING & WASHING PLACES	
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN	DWG. No.

GEOLOGY



LEGEND

Geological age	Geological formation	Rock type	Symbol	Description
Quaternary	Residual soil, partly talus		Rs	Reddish brown sandy clay and sandy loam, including rock fragments.
	River bed deposit		Rd	Down to yellowish brown deposits of silty clay and sand, partly containing gravels, silt or loess.
Pre-Cambrian	Highland series	Calcareous rocks	C	Crystalline limestone, massive often containing quartz and mica. Gneiss, with quartz and/or mica in high proportion. Foliated but solid.
		Gneiss	Gn	Gneiss, some including much garnet. Generally siliceous and hard. Partly granulitic. Quartzite, some garnelliferous, coarse grained. Irregularly intercalating.
		Charnockites	Ch	Black or dark blue, massive, without foliation.



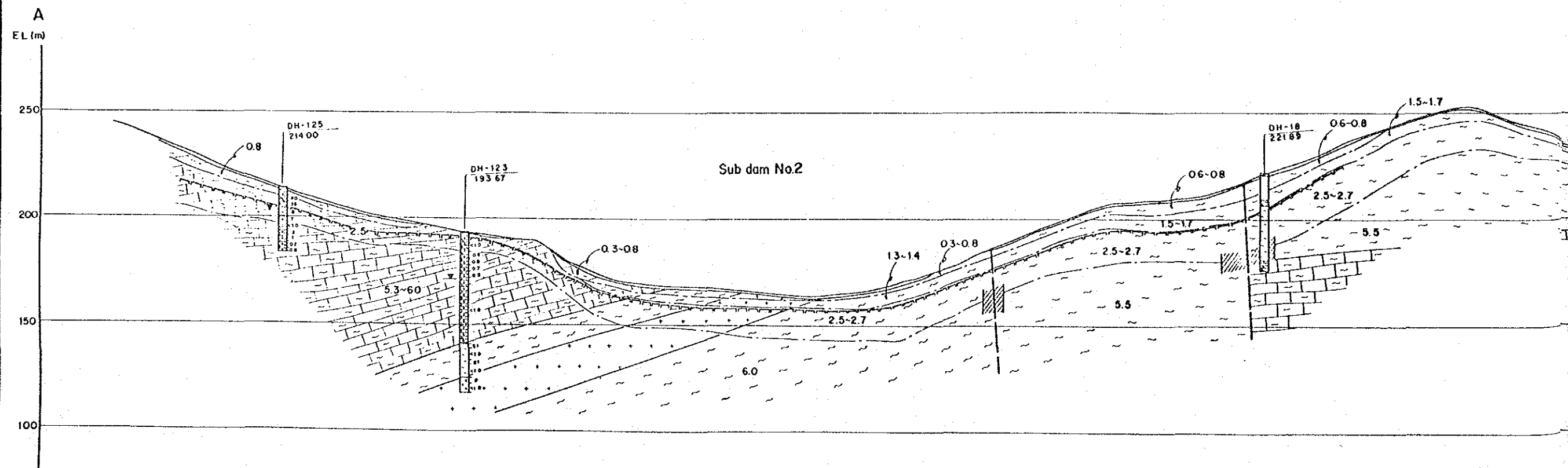
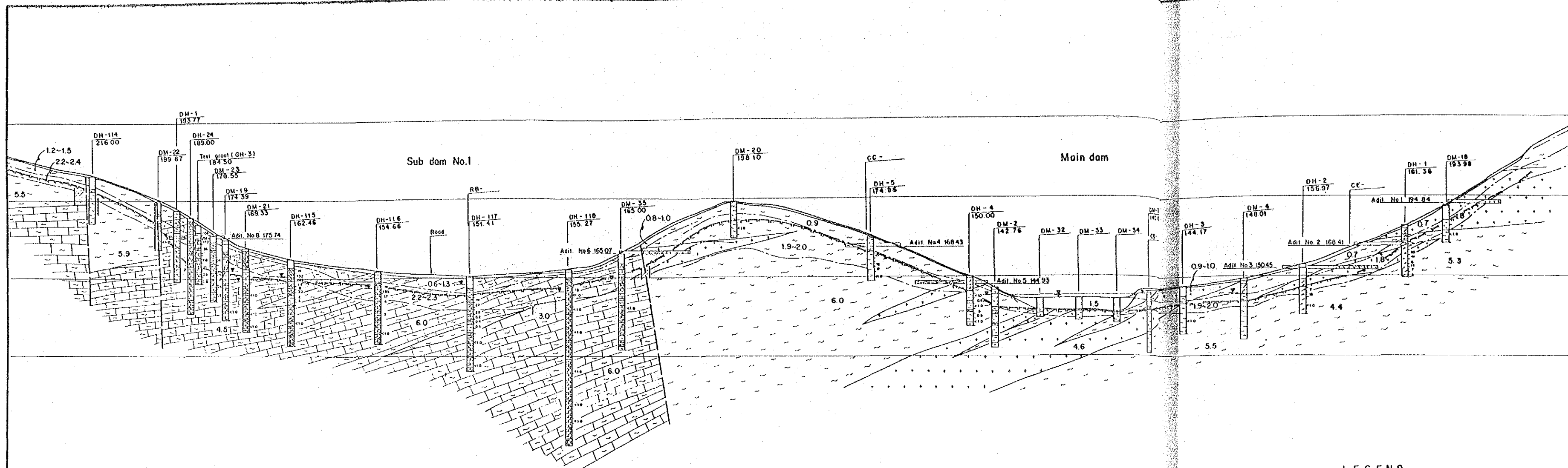
GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELE DEVELOPMENT

THE STUDY ON EXTENSION OF
THE MORAGAHAKANDA AGRICULTURAL
DEVELOPMENT PROJECT

TITLE OF DRAWINGS
GEOLOGICAL MAP OF DAMSITE

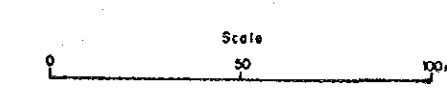
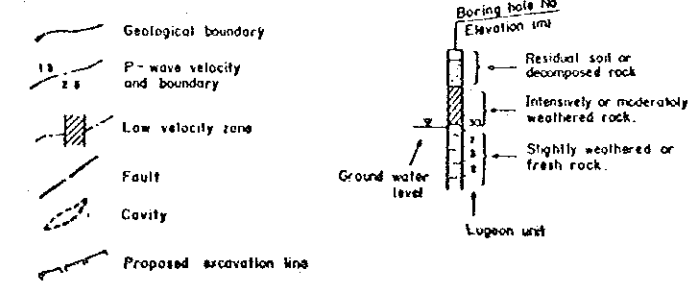
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

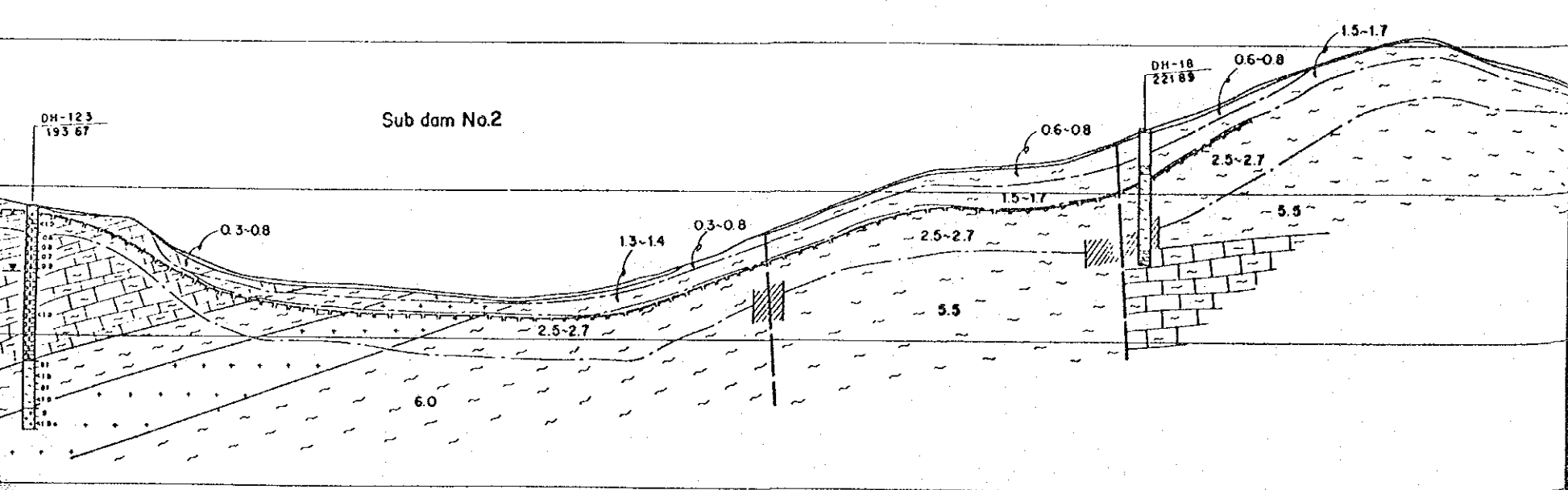
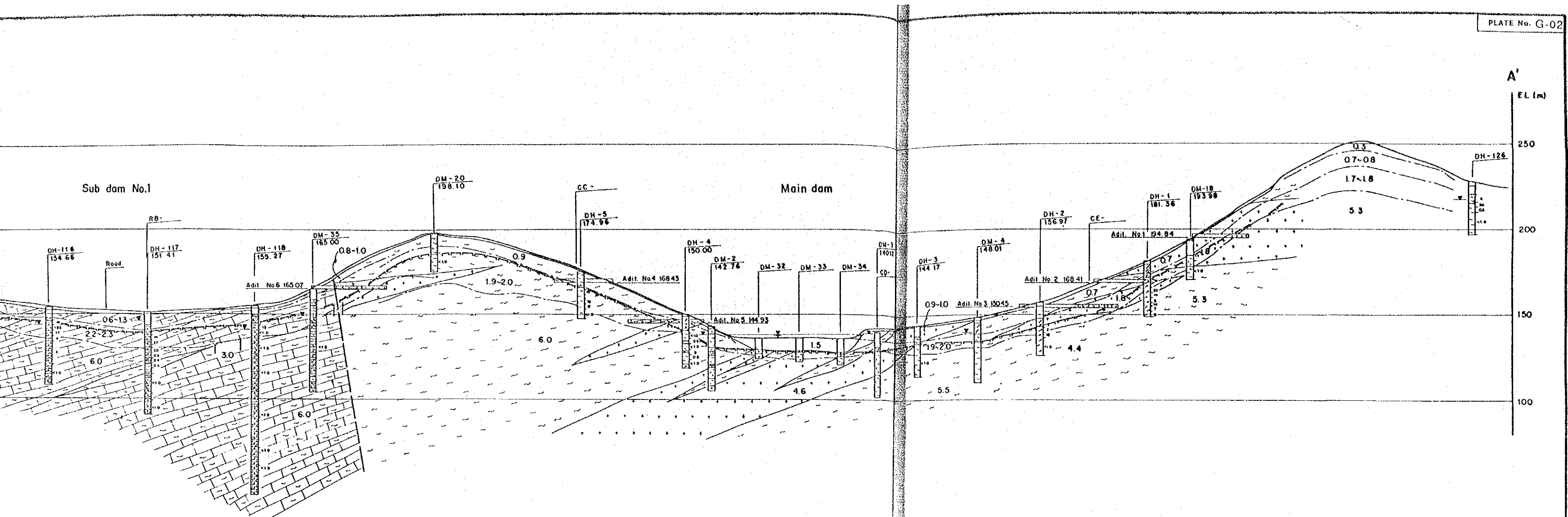
OWG. No.



LEGEND

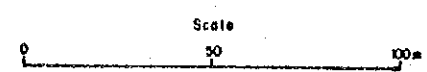
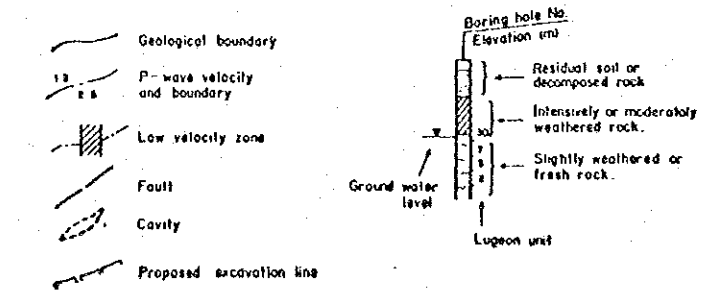
Geological age	Geological formation	Rock type	Symbol	Description
Quaternary	Residual soil, partly talus.			Reddish brown sandy clay and sandy loam, including rock fragments.
	River bed deposit			Brown to yellowish brown deposits of silty clay and sand, partly containing gravels, soft or loose.
Pre-Cambrian	Highland series	Crystalline limestone		Composed of calcite, often containing quartz and mica, massive and solid.
		Calc gneiss		Composed of calcite, with quartz and/or mica in high proportion. Foliated but solid.
		Gneiss		Generally siliceous and hard. Some including much garnet. Partly granitic.
		Charnockite	+	Black or dark blue, massive and solid, without foliation.
		Quartzite	x	Composed of quartz, some including garnet. Irregularly intercalating. Generally hard and crackly.





LEGEND

Geological age	Geological formation	Rock type	Symbol	Description
Quaternary	Residual soil, partly talus			Reddish brown sandy clay and sandy loam, including rock fragments.
	River bed deposit			Brown to yellowish brown deposits of silty clay and sand, partly containing gravels, soft or loose.
Pre-Combrian	Highland series	Crystalline limestone		Composed of calcite, often containing quartz and mica, massive and solid.
		Calc gneiss		Composed of calcite, with quartz and/or mica in high proportion. Foliated but solid.
		Gneiss		Generally siliceous and hard. Some including much garnet. Partly granitic.
		Charnockite		Black or dark blue, massive and solid, without foliation.
		Quartzite		Composed of quartz, some including garnet. Irregularly intercalating. Generally hard and craky.



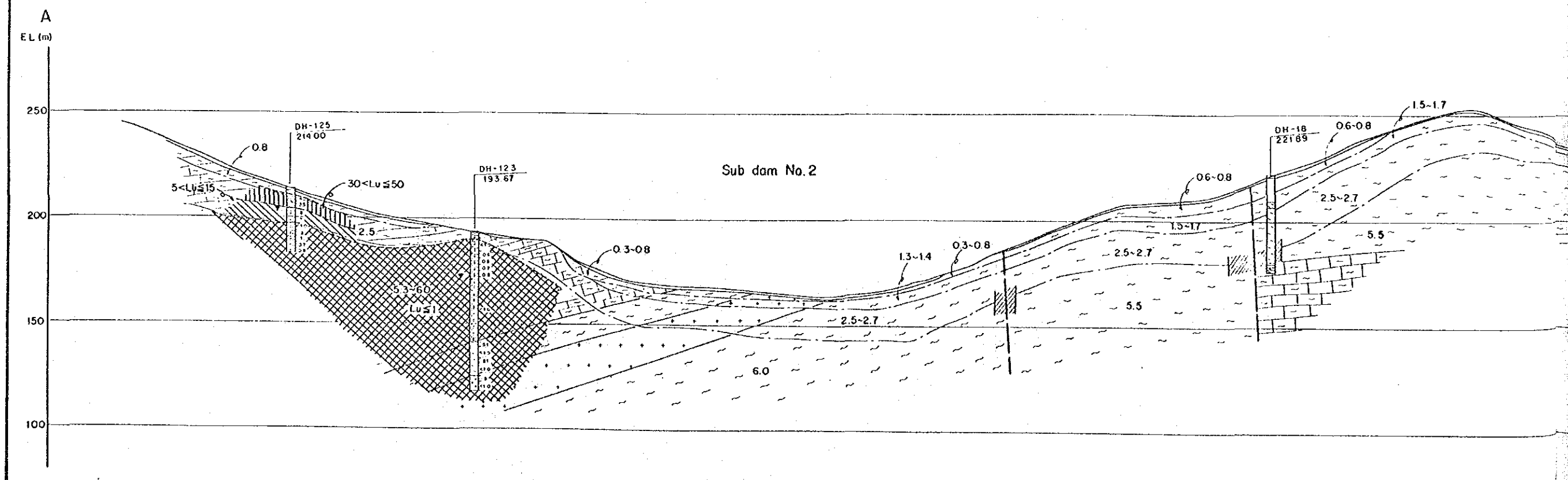
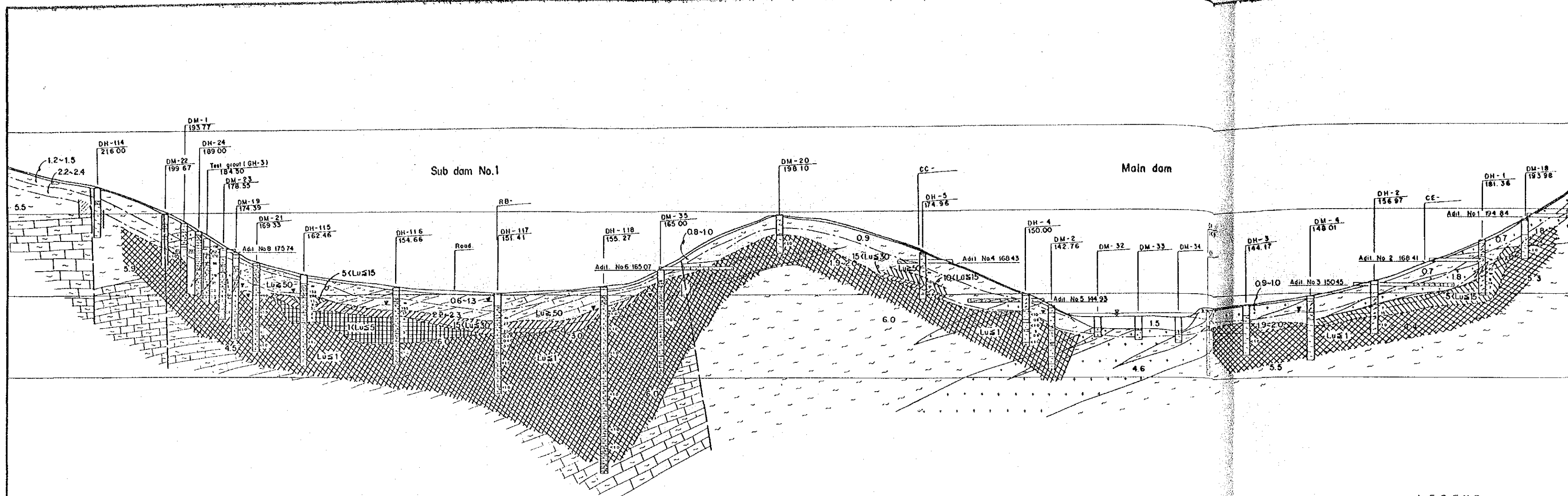
GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

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DEVELOPMENT PROJECT

TITLE OF DRAWINGS
GEOLOGICAL PROFILE
OF DAMSITE

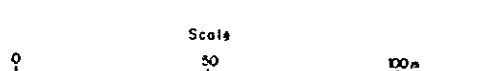
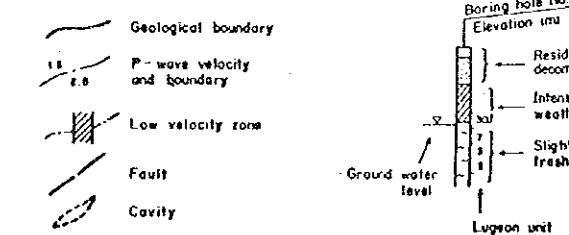
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

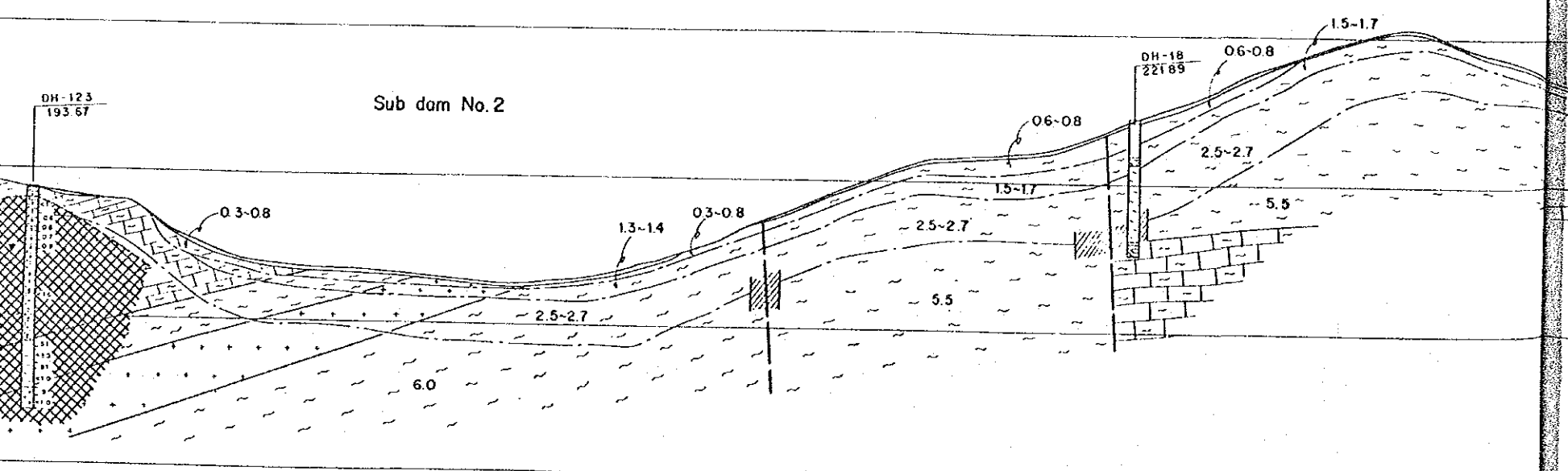
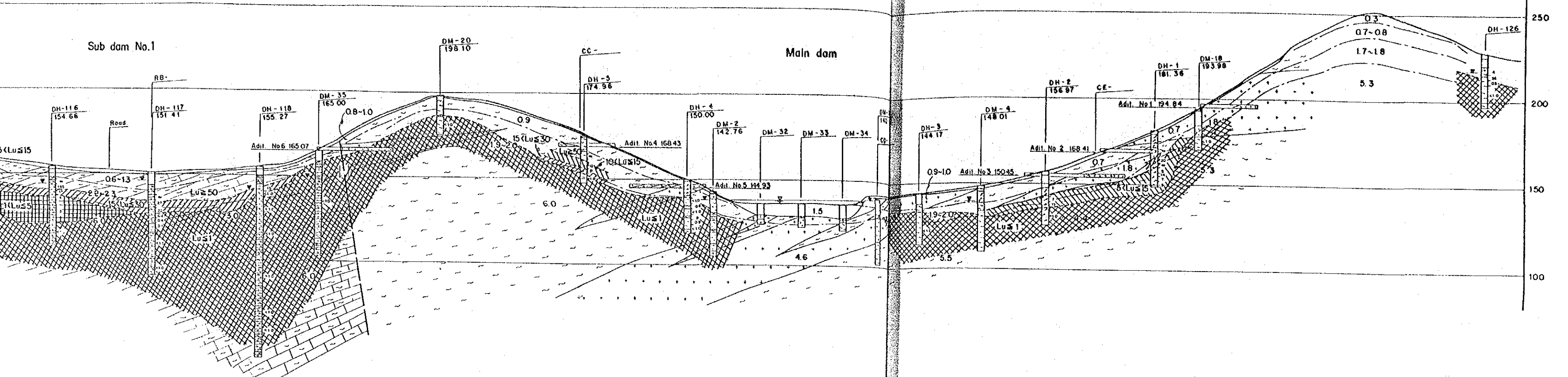
DWG. No.



LEGEND

Geological age	Geological formation	Rock type	Symbol	Description
Quaternary	Residual soil, partly talus.		[Symbol]	Reddish brown sandy clay loam, including rock fragments.
	River bed deposit		[Symbol]	Brown to yellowish brown silty clay and sand, partly gravels, soft or loose.
Pre-Cambrian	Highland series	Crystalline limestone	[Symbol]	Composed of calcite, often quartz and mica, massive.
		Calc gneiss	[Symbol]	Composed of calcite, with mica in high proportion. Firm solid.
		Gneiss	[Symbol]	Generally siliceous and hard. Some including much garnet. Partly granitic.
		Charnockite	[Symbol]	Black or dark blue, massive solid, without foliation.
		Quartzite	[Symbol]	Composed of quartz, some garnet. Irregularly intercalated. Generally hard and crackly.



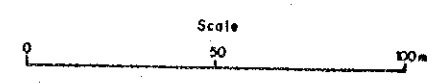
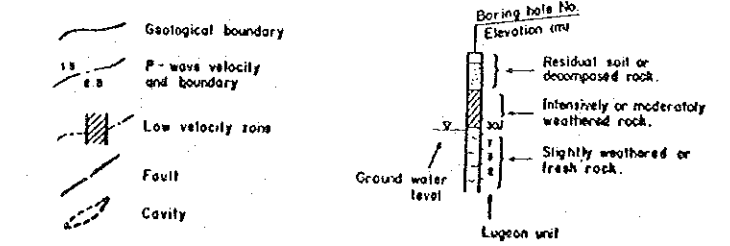


LEGEND

Geological age	Geological formation	Rock type	Symbol	Description
Quaternary	Residual soil, partly talus.			Reddish brown sandy clay and sandy loam, including rock fragments.
	River bed deposit			Brown to yellowish brown deposits of silty clay and sand, partly containing gravels, soft or loose.
Pre-Cambrian	Highland series	Crystalline limestone		Composed of calcite, often containing quartz and mica, massive and solid.
		Calc gneiss		Composed of calcite, with quartz and/or mica in high proportion. Foliated but solid.
		Gneiss		Generally siliceous and hard. Some including much garnet. Partly granitic.
		Charnockite		Black or dark blue, massive and solid, without foliation.
		Quartzite		Composed of quartz, some including garnet. Irregularly intercalating. Generally hard and crackly.

Lugeon unit.

	50 < Lu
	30 < Lu <= 50
	15 < Lu <= 30
	5 < Lu <= 15
	1 < Lu <= 5
	Lu <= 1



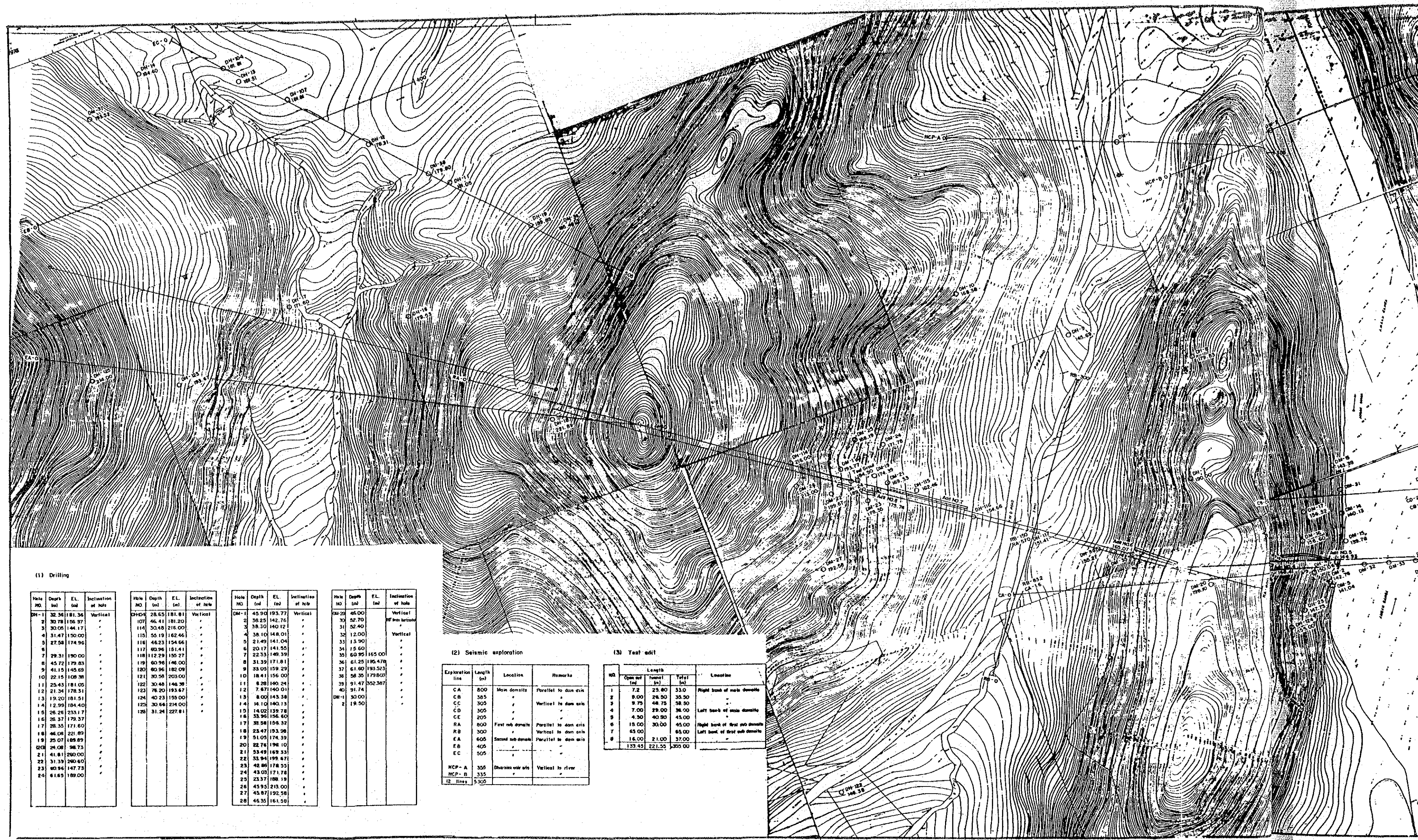
GOVERNMENT OF DEMOCRATIC SOCIALIST
REPUBLIC OF SRI LANKA
MINISTRY OF MAHAWELI DEVELOPMENT

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TITLE OF DRAWINGS
LUGEON MAP OF DAMSITE

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

DWG. No.



(1) Drilling

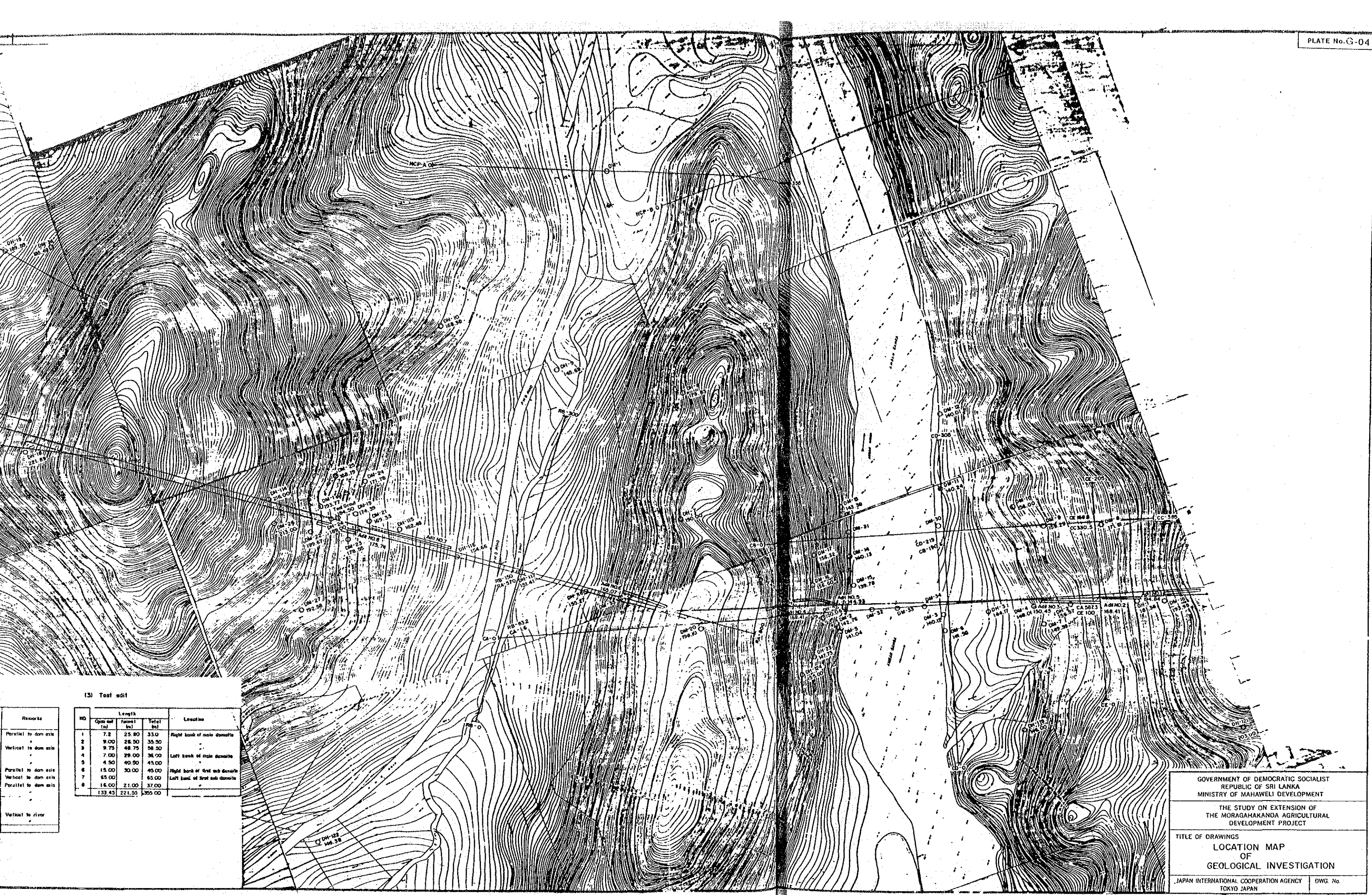
Hole No.	Depth (ft)	E.L. (ft)	Inclination of hole	Hole No.	Depth (ft)	E.L. (ft)	Inclination of hole	Hole No.	Depth (ft)	E.L. (ft)	Inclination of hole	Hole No.	Depth (ft)	E.L. (ft)	Inclination of hole
DM-1	32.56	181.34	Vertical	DM-4	28.65	181.81	Vertical	DM-7	45.90	193.77	Vertical	DM-10	46.00		Vertical
2	30.78	186.97	"	(07)	46.41	181.20	"	2	58.25	142.76	"	30	52.70		Vertical
3	30.06	144.17	"	114	30.48	216.00	"	3	38.30	140.12	"	31	52.40		Vertical
4	31.47	150.00	"	115	55.19	162.46	"	4	38.10	148.01	"	32	12.00		Vertical
5	27.58	174.96	"	118	46.23	154.66	"	5	21.49	141.04	"	33	13.90		"
6			"	117	63.96	181.41	"	6	20.17	141.55	"	34	15.60		"
7	29.31	190.00	"	118	112.29	155.27	"	7	22.33	146.39	"	35	60.95	165.00	"
8	45.72	179.83	"	119	60.96	146.00	"	8	31.39	171.81	"	36	61.25	196.478	"
9	41.15	145.69	"	120	60.96	182.08	"	9	33.05	159.29	"	37	61.60	193.523	"
10	22.15	108.38	"	121	30.50	203.00	"	10	18.41	156.00	"	38	58.35	179.803	"
11	25.43	181.05	"	122	30.48	146.38	"	11	8.28	140.24	"	39	91.47	352.387	"
12	21.34	178.51	"	123	76.20	193.67	"	12	7.87	140.01	"	40	91.74		"
13	19.20	181.51	"	124	40.23	195.00	"	13	8.00	143.38	"	DM-1	30.00		"
14	12.99	184.40	"	125	30.64	214.00	"	14	14.10	140.13	"	2	19.50		"
15	26.26	233.17	"	126	31.24	227.81	"	15	14.02	139.78	"				
16	26.37	179.37	"					16	53.96	156.60	"				
17	28.35	171.60	"					17	38.98	156.32	"				
18	46.08	221.89	"					18	25.49	193.98	"				
19	25.07	189.89	"					19	51.05	174.59	"				
20	24.09	98.73	"					20	22.76	196.10	"				
21	41.81	200.00	"					21	53.49	169.33	"				
22	31.39	200.00	"					22	33.94	199.67	"				
23	60.84	147.73	"					23	42.80	178.55	"				
24	61.65	189.00	"					24	43.03	171.78	"				
								25	23.37	188.19	"				
								26	45.93	213.00	"				
								27	45.87	192.58	"				
								28	46.35	161.58	"				

(2) Seismic exploration

Exploration line	Length (ft)	Location	Remarks
CA	800	Mon damsite	Parallel to dam axis
CB	365	"	"
CC	305	"	Vertical to dam axis
CD	305	"	"
CE	205	"	"
RA	800	First sub-damsite	Parallel to dam axis
RB	300	"	Vertical to dam axis
EA	605	Second sub-damsite	Parallel to dam axis
EB	405	"	"
EC	505	"	"
NCP-A	355	Downstream side	Vertical to river
NCP-B	335	"	"
12 lines	5305		

(3) Test edit

No.	Length			Location
	Open end (ft)	Target (ft)	Total (ft)	
1	7.2	25.80	33.0	Right bank of main damsite
2	8.00	24.50	32.50	"
3	9.75	48.75	58.50	"
4	7.00	29.00	36.00	Left bank of main damsite
5	4.50	40.90	45.00	"
6	15.00	30.00	45.00	Right bank of first sub-damsite
7	45.00		45.00	Left bank of first sub-damsite
8	18.00	21.00	37.00	"
	133.45	221.50	355.00	



13) Test edit

Remarks	Length			Location
	Open cut (m)	Channel (m)	Total (m)	
Parallel to dam axis	7.2	25.80	33.0	Right bank of main channel
Vertical to dam axis	9.00	26.50	35.50	
Vertical to dam axis	9.75	48.75	58.50	
Vertical to dam axis	7.00	29.00	36.00	Left bank of main channel
Vertical to dam axis	4.50	40.50	45.00	
Parallel to dam axis	15.00	30.00	45.00	Right bank of first sub channel
Vertical to dam axis	65.00		65.00	Left bank of first sub channel
Parallel to dam axis	18.00	21.00	37.00	
Vertical to river	133.45	221.55	355.00	

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 DEVELOPMENT PROJECT

TITLE OF DRAWINGS
 LOCATION MAP
 OF
 GEOLOGICAL INVESTIGATION

JAPAN INTERNATIONAL COOPERATION AGENCY | DWG. No.
 TOKYO JAPAN