

社会開発調査部

THE PEOPLE'S REPUBLIC OF BANGLADESH  
FLOOD PLAN COORDINATION ORGANIZATION

FEASIBILITY STUDY  
ON  
GREATER DHAKA PROTECTION PROJECT  
(STUDY IN DHAKA METROPOLITAN AREA)  
OF  
BANGLADESH FLOOD ACTION PLAN NO.8A

FAP 8A

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DATA BOOK II  
TOPOGRAPHIC SURVEY DRAWINGS

JUNE 1992

JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団

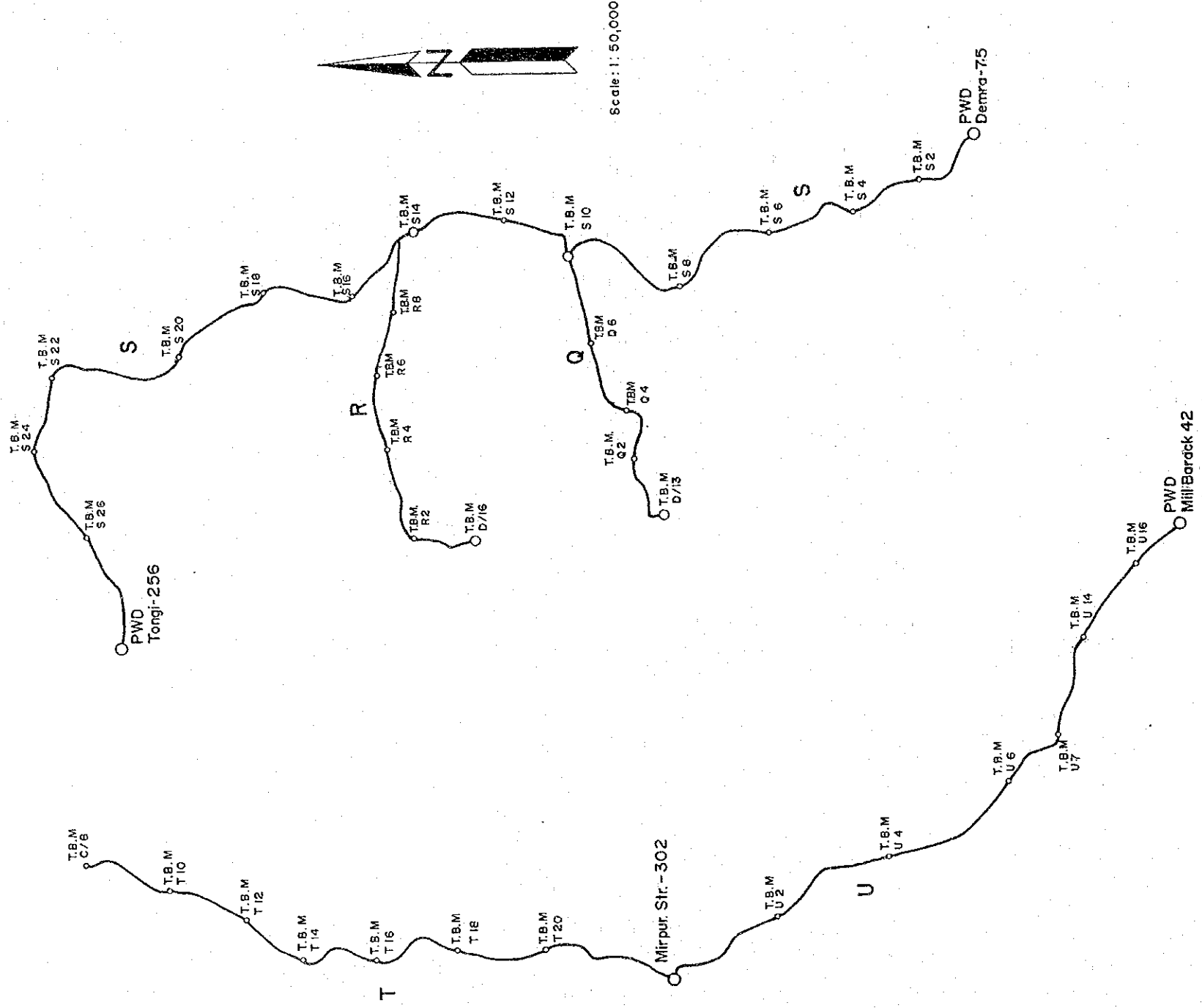
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1. LEVELING NETWORK MAP AND LOCATION MAP OF  
LONGITUDINAL / CROSS SECTION SURVEY AND  
TOPOGRAPHICAL SURVEY

# Leveling Net Work Map



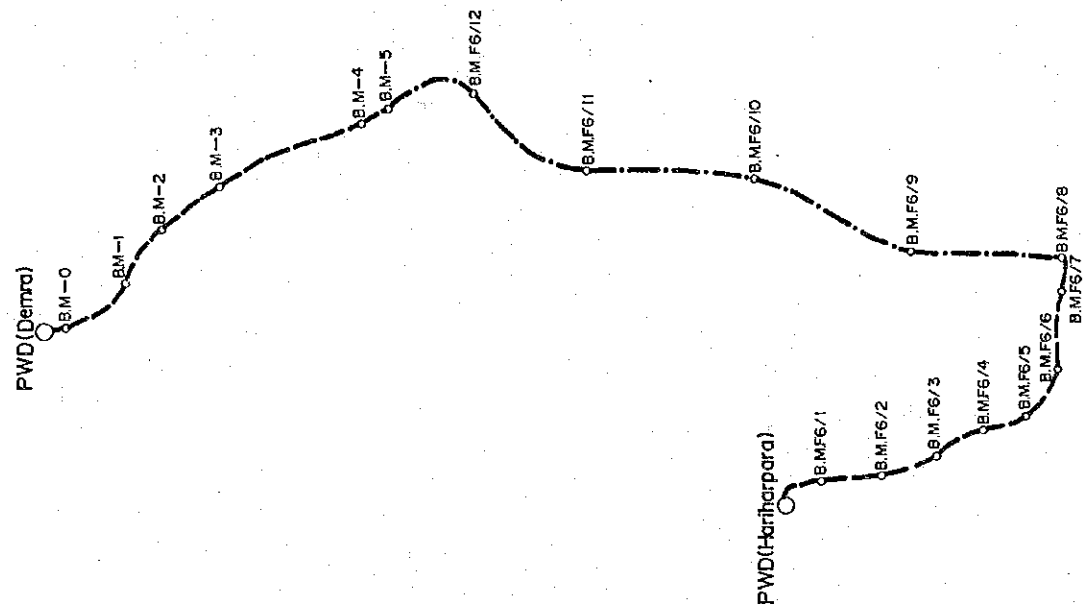
- Leveling**
- PWD BM
  - Connected TBM
  - Temporary BM

Surveyed on June 1991

# Leveling Net Work Map



SCALE: 1:50,000



## Leveling

- PWD BM
- Temporary BM

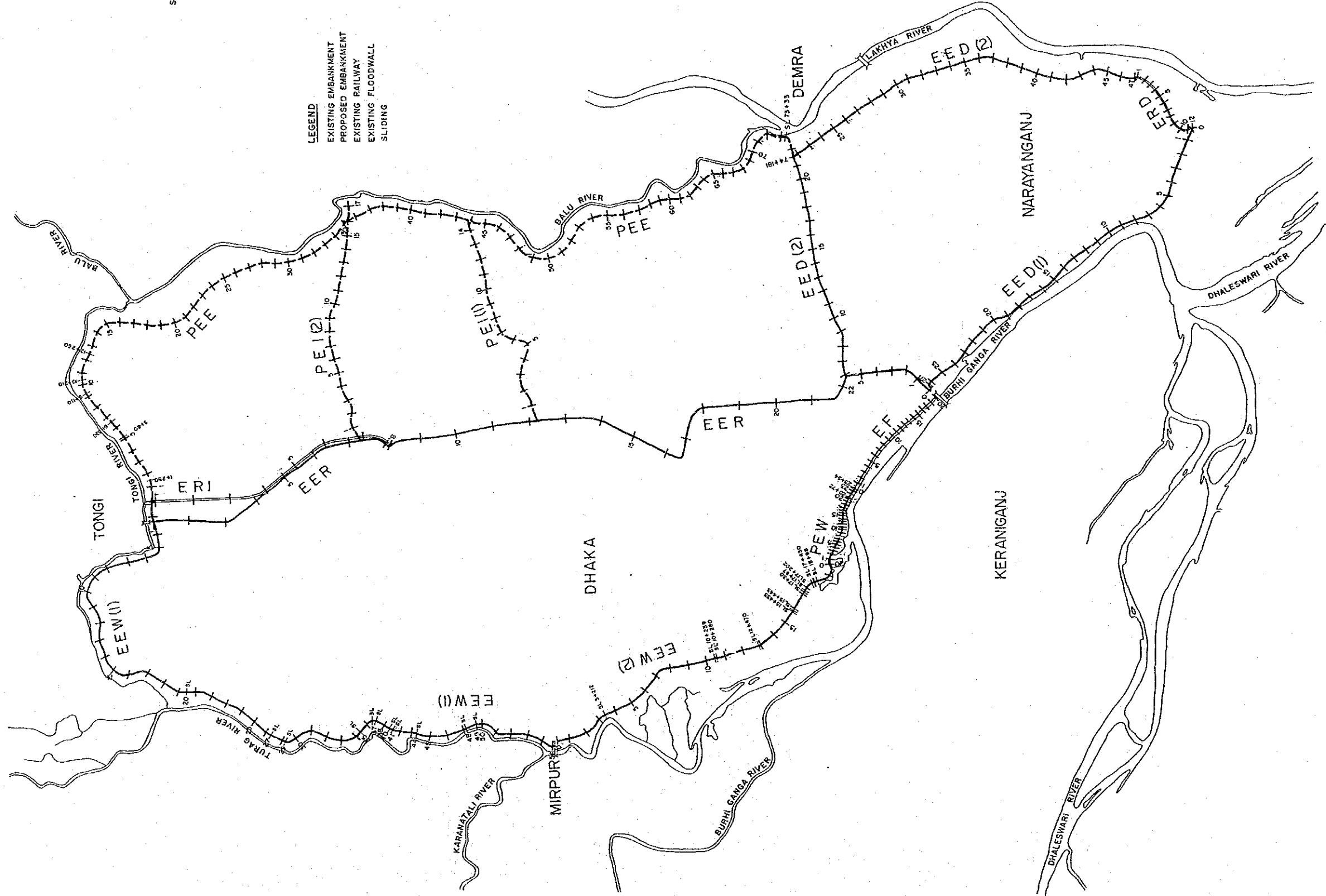
Surveyed on October, 1991

LOCATION MAP  
OF  
PROPOSED AND EXISTING EMBANKMENT



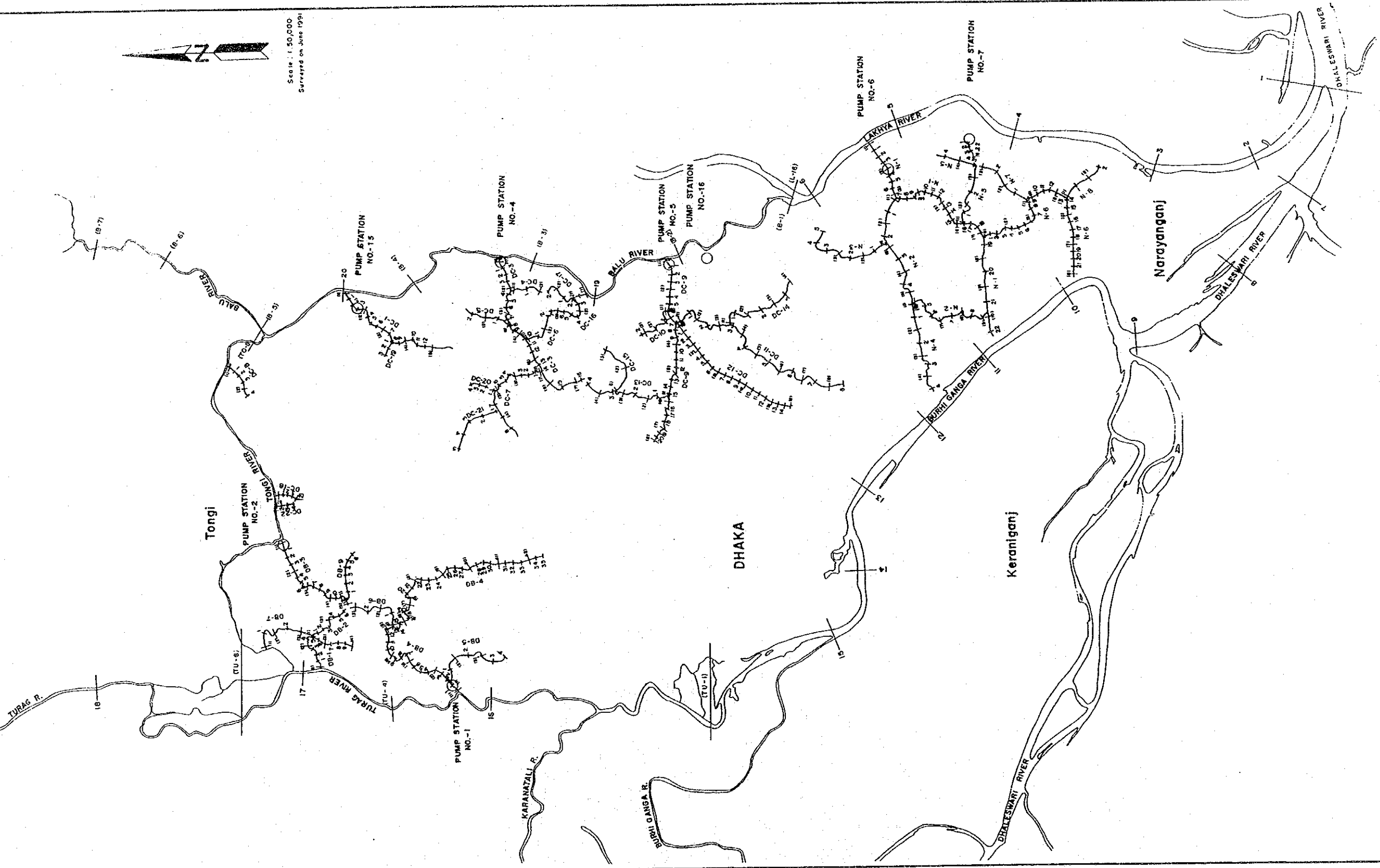
Scale : 1:50,000  
Surveyed on June 1991

- LEGEND
- EXISTING EMBANKMENT
  - PROPOSED EMBANKMENT
  - EXISTING RAILWAY
  - EXISTING FLOODWALL
  - SLIDING





LOCATION MAP OF LONGITUDINAL AND  
CROSS SECTION SURVEY OF RIVER AND CANAL  
AND TOPOGRAPHICAL SURVEY OF PUMP STATION



Scale 1:50,000  
Surveyed on June 1951

Tongi

DHAKA

Keraniganj

Narayanganj

DHALESWARI RIVER

DHALESWARI RIVER

PUMP STATION NO.-6

PUMP STATION NO.-7

PUMP STATION NO.-5

PUMP STATION NO.-16

PUMP STATION NO.-4

PUMP STATION NO.-15

PUMP STATION NO.-1

PUMP STATION NO.-2

TURAG R.

KARANZYALI R.

BURHI GANGA R.

BURHI GANGA RIVER

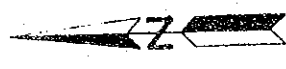
LAKHYA RIVER

BALU RIVER

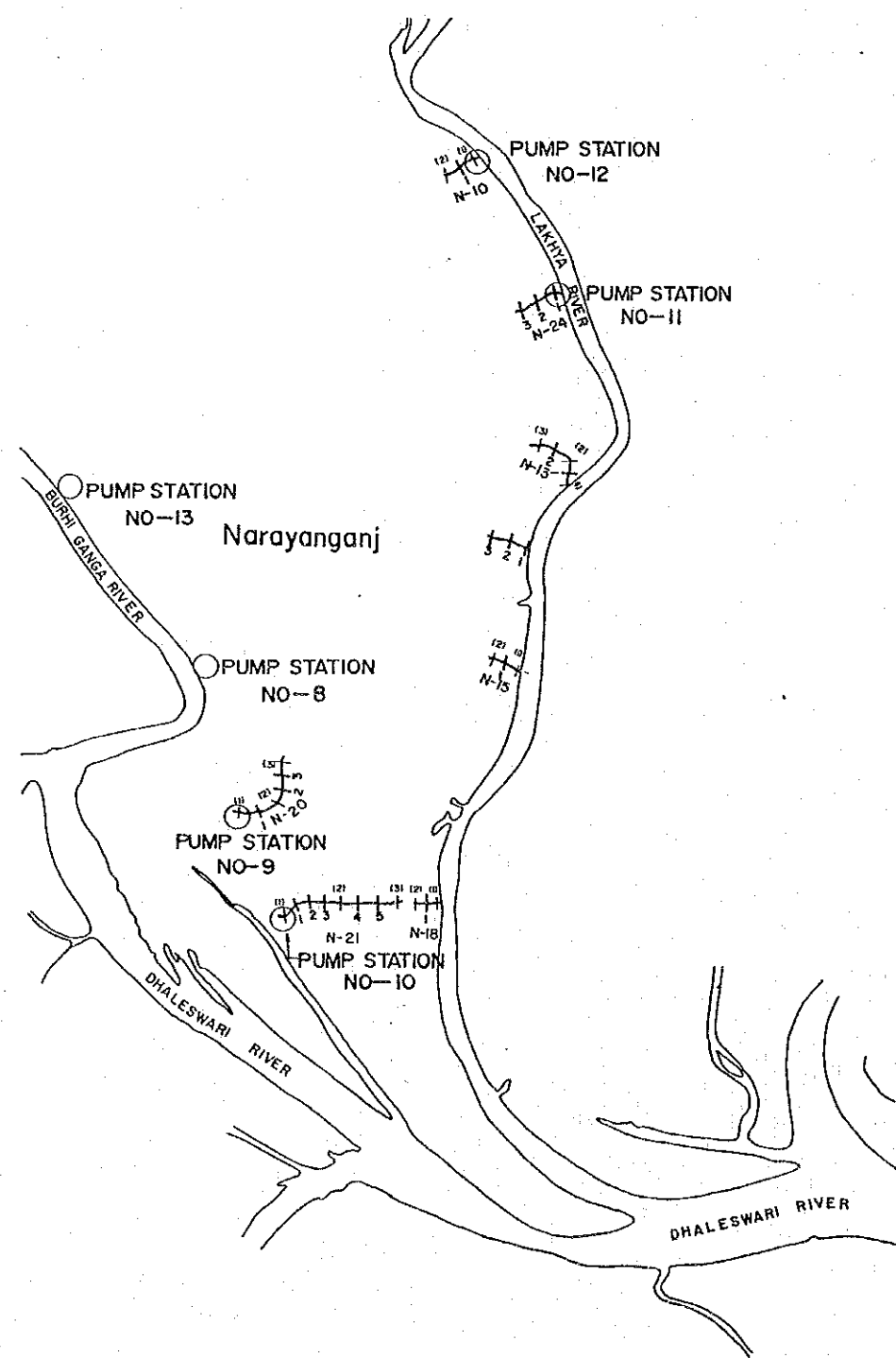
TONGI RIVER

BALU RIVER

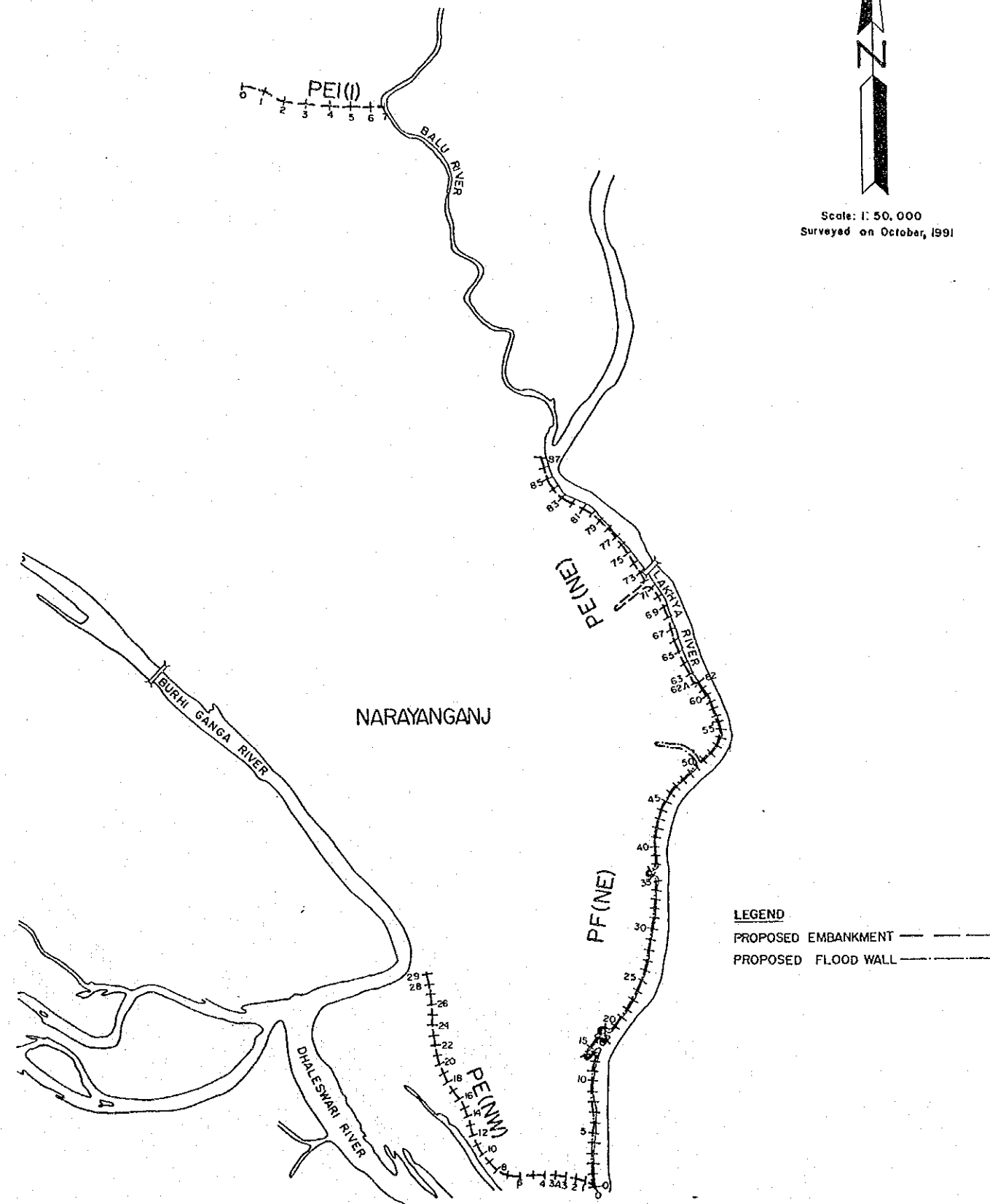
DHALESWARI RIVER



LOCATION MAP OF LONGITUDINAL AND  
CROSS SECTION SURVEY OF CANAL  
AND TOPOGRAPHICAL SURVEY OF PUMP STATION



LOCATION MAP OF  
PROPOSED EMBANKMENT AND FLOOD WALL



## 2. DESCRIPTION OF BENCH MARK



BM.NO.	Description of Bench Mark locations.	MSL/RL(M)	Remarks.
Line - T.			
T-17	Marked on the base of 133 KV line which is situated east side of embankment and east side of Botanical Garden Tower No. 176m at Nawaberbag village.	5.710	
T-18	Marked on the top of pucca seat bench in front of Golsam Ali's Tenstall at Nawaberbag which is east from embankment and west from zoo.	7.349	
T-19	Marked on the base of Electric post 20m east from Nawaberbag Club and east from embankment at Nawaberbag village.	6.289	
T-20	Marked on the top of plinth level at Ali Ahmed's House No-4 at Diabari Mouza, south from embankment.	7.248	
T-21	Marked on the top of Flood Protection wall and west side of Rice Mill at Zahranabad village.	8.457	
BWDB	Mirpur 302	10.006	

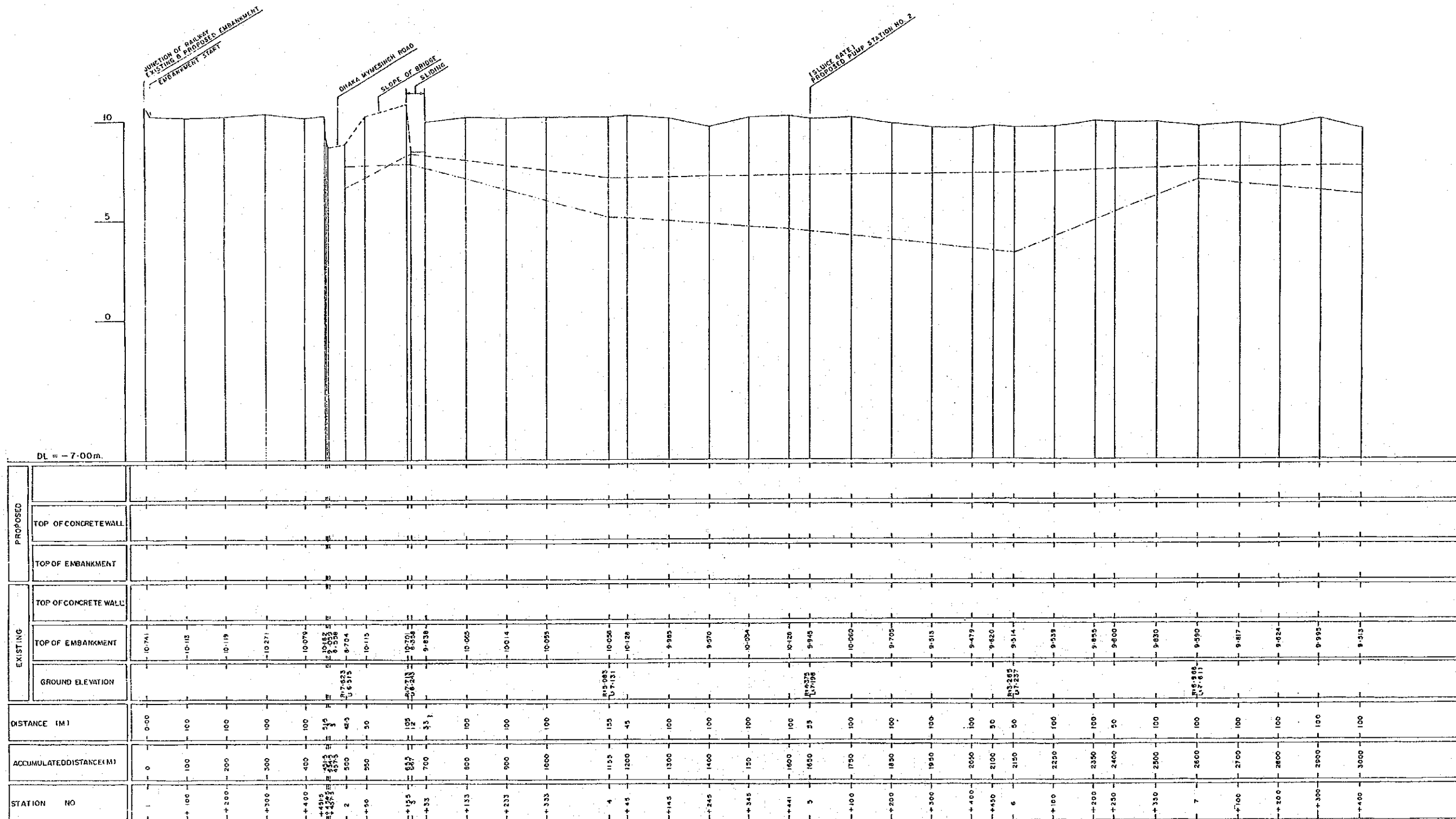
BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
Line- U:			
From BWDB, BM 302 Mirpur to BWDB, BM 42 Mill Barrack.			
U-1	Marked on the plinth level which is south east corner of Hazilal Pokir Jam-e-Mosque at Gabtali.	6.440	
U-2	Marked on the top of Abutment wall of Sluice gate at Mohammadpur.	5.951	
U-3	Marked on the top of tube well plinth into the Shapna-air Housing Society area near embankment at Mohammadpur.	5.322	
U-4	Marked on the top of plinth level and Old BM. M-2 and in front of Ali and Noor Real Estate office at Jikatola.	5.948	
U-5	Marked on the top of plinth level and old BM.M-4 and north west corner of M.R. Tanari Office at Navabgonj.	5.595	
U-6	Marked on the top of plinth level which is south west corner of Doctor's Chamber into the Navabgonj Children Park.	6.220	
U-7	Marked on the base of Power post in front of the Lalbag Shasan Khola gate.	6.203	
U-8	Marked on the plinth level of House No. 142, Islambag which is belongs to Mostafa.	6.737	
U-9	Marked on the 2nd step of stair which is in front side of Master Book house 40/1 Islambag, Dhaka. This book house is East of Islambag Idgah.	6.058	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
Line- U:			
U-10	Marked on the plinth level of the Low lift pumping station, Nalgola, Dhaka.	7.499	
U-11	Marked on the plinth level east side of Ghani Miar Hat Zam-e-Mosque at Imnagonj, Dhaka.	7.394	
U-12	Marked on the plinth level south east corner of house belongs to HAZI ABDUL ALI and Co. at 43/1, Imnagonj Bazar lane Dhaka.	7.033	
U-13	Marked on the plinth level in front of SIR SALIMULLA MEDICAL COLLEGE HOSTEL at No.5, Nalgola, Dhaka.	7.882	
U-14	Marked on the plinth level at the entrance door of Municipality Toilet at Babu Bazar Ferry ghat, Dhaka.	7.412	
U-15	Marked on the plinth level at the entrance door of Navabbari ghat Jam-e-Mosque, Dhaka.	6.807	
U-16	Marked on the plinth level south east corner of I.T.A Terminal at Sadarghat, Dhaka.	6.778	
U-17	Marked on the gate of SAKHINA SAW MILL at No.1, Utingonj Lane, Farashgonj, Dhaka.	7.204	
BWDB.	Mill Barrack 42	6.424	

### 3. EMBANKMENT AND FLOOD WALL

WEST EMBANKMENT ( GREATER DHAKA )  
ROAD CUM EMBANKMENT ( GREATER DHAKA )  
EAST EMBANKMENT ( GREATER DHAKA )  
INNER EMBANKMENT ( GREATER DHAKA )  
DND EMBANKMENT ( NARAYANGANJ )  
WEST EMBANKMENT ( NARAYANGANJ )  
EAST EMBANKMENT ( NARAYANGANJ )

Note: The Drawings were scaled down to 50% from the original drawings.

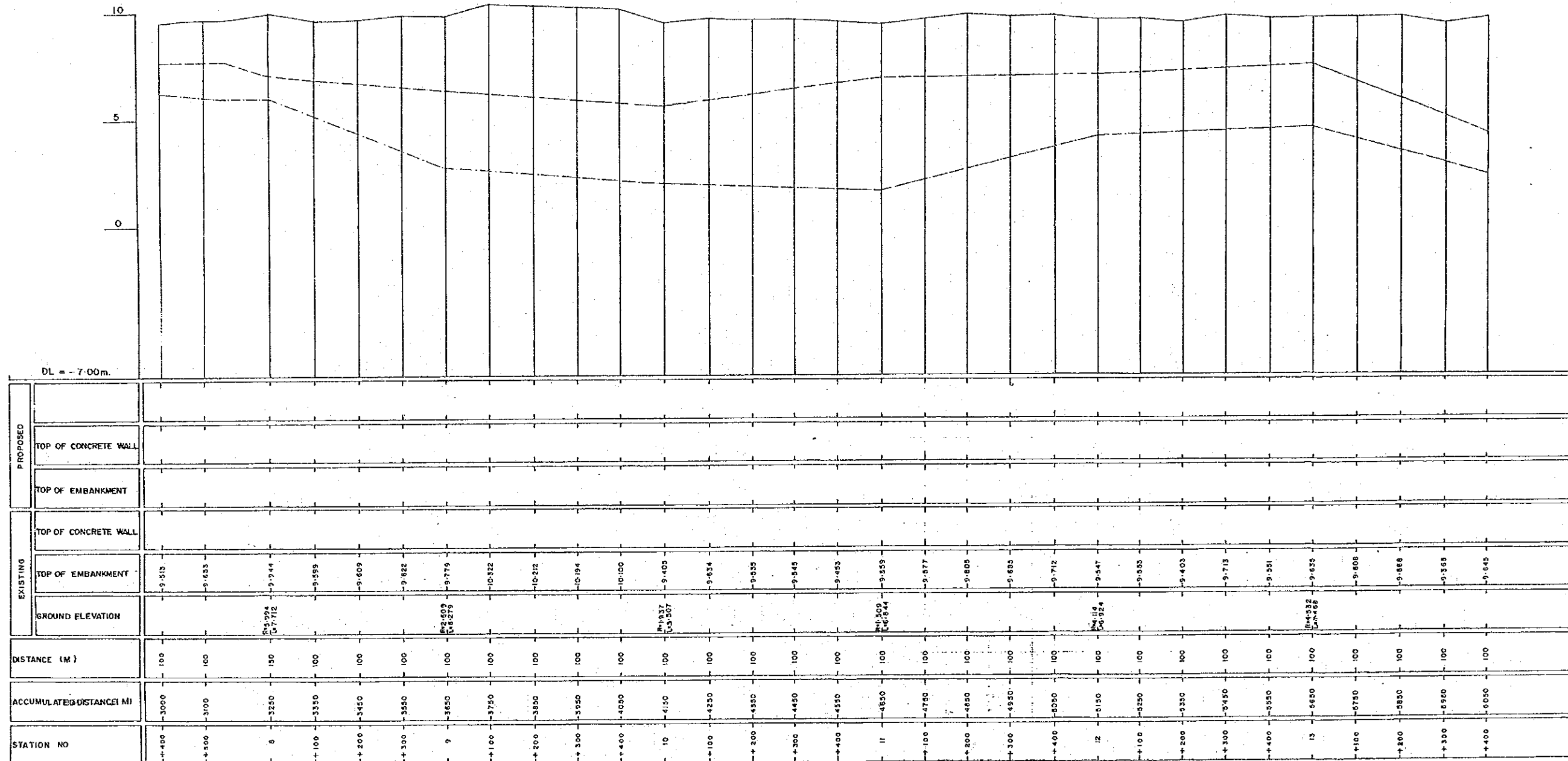


LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION - - - - -  
 RIGHT ———  
 LEFT - - - - -

**GREATER DHAKA PROTECTION PROJECT**  
 (STUDY IN DHAKA METROPOLITAN AREA)  
**BANGLADESH FLOOD ACTION PLAN NO.8A**  
 DHAKA METROPOLITAN AREA  
**EXISTING WEST EMBANKMENT (I)**  
**LONG SECTION**

TONGI-MIRPUR BRIDGE	SCALE	H=1:5000
DWG NO. EEW(II)/L-1	DATE	V=1:100
		JUNE, 1991

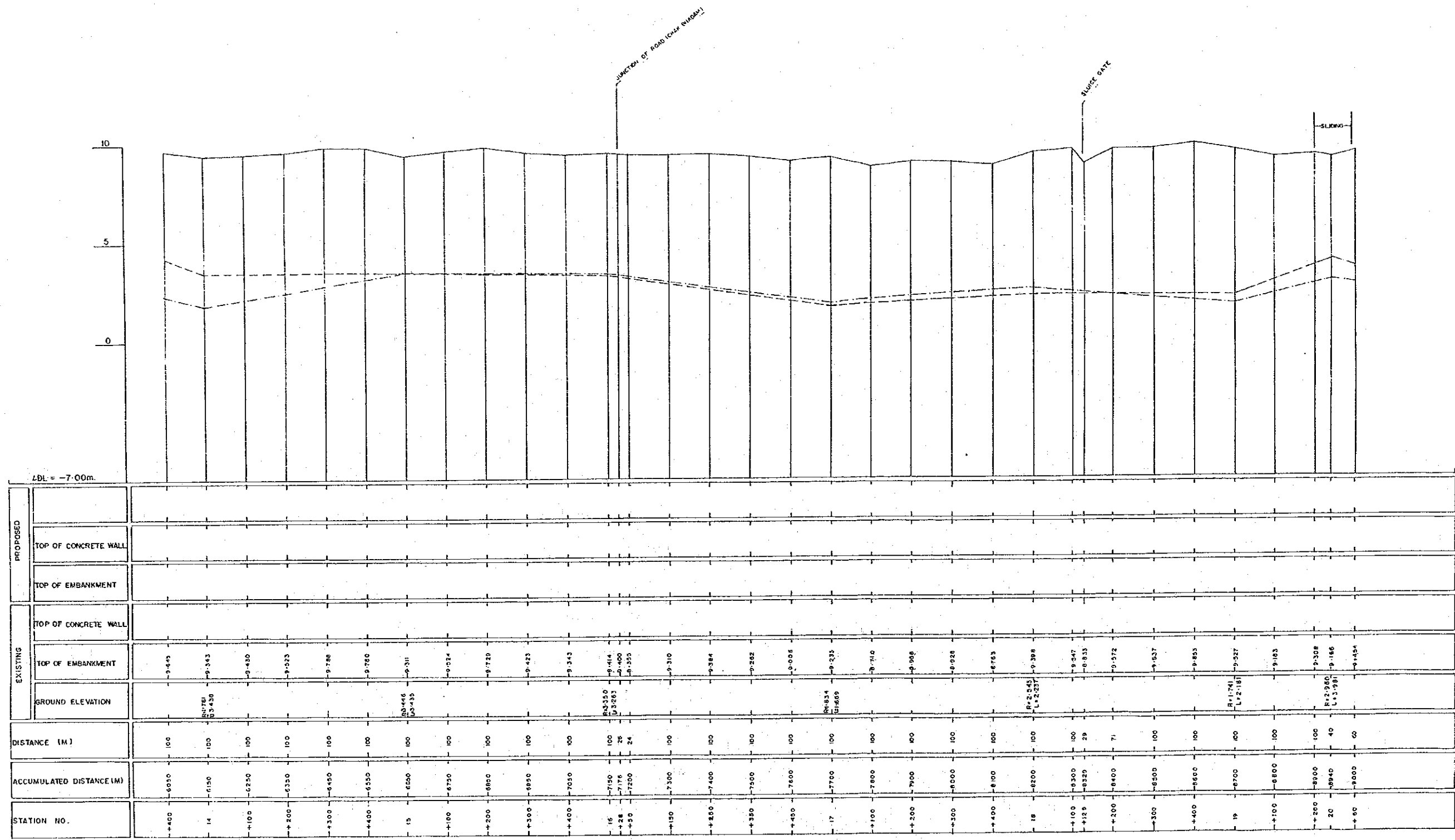
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LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT ———

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A  
 DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT ( 1 )  
 LONG SECTION  
 TONGI-MIRPUR BRIDGE SCALE: H.V. 1:5000  
 V.H. 1:100  
 DWG. NO. EEW(I)/L-2 DATE: JUNE 1991  
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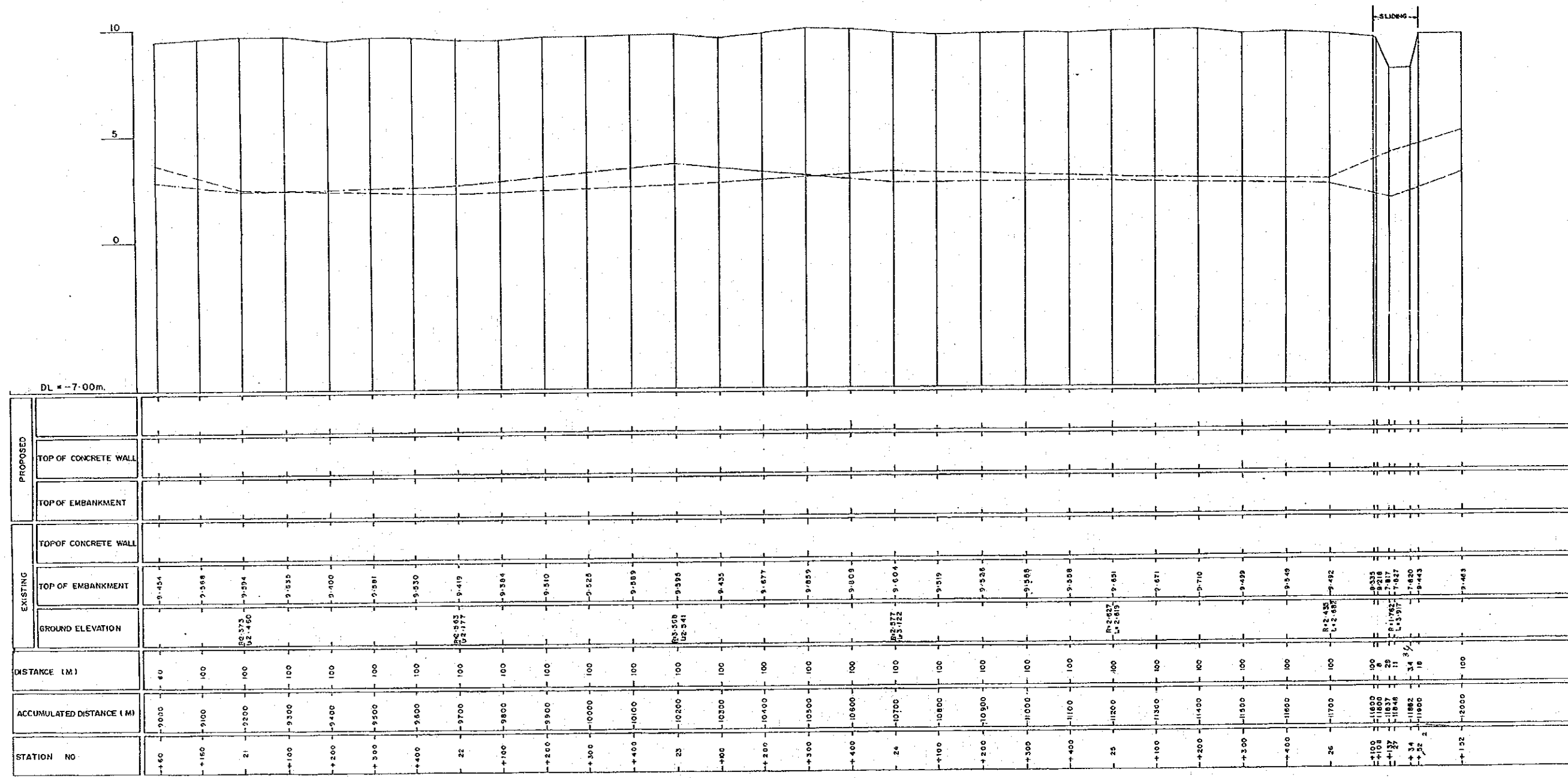


LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT - - - - -

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A  
 DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT (1)  
 LONG SECTION

TONGI-MIRPUR BRIDGE	SCALE	H: 1: 5000 V: 1: 100
DWG. NO. EEW(II)/L-3	DATE	JUNE, 1991

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LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT - - - - -

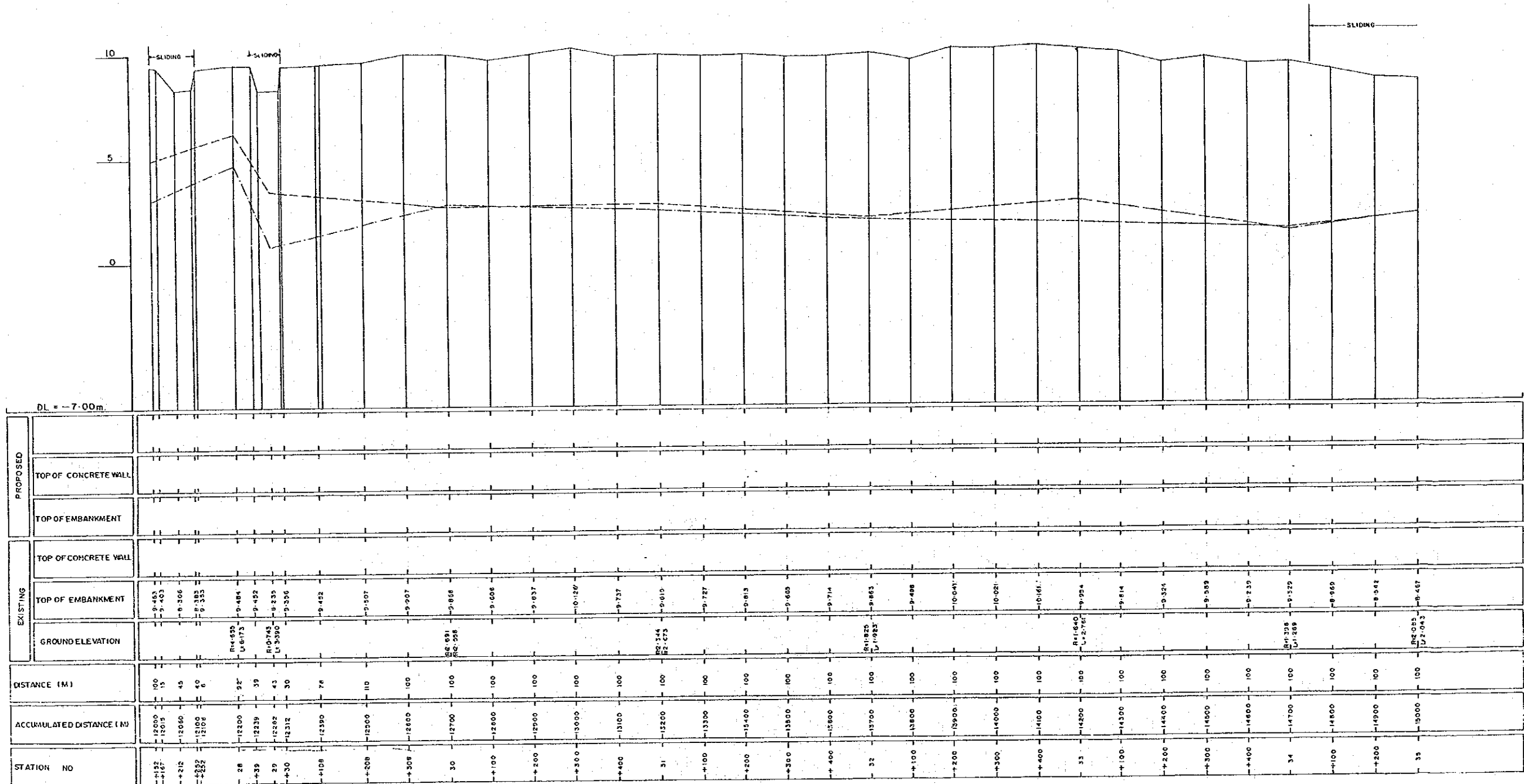
GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT (1)  
 LONG SECTION

TONGI-MIRPUR BRIDGE SCALE H: 1:5000  
 V: 1:1000

DWG. NO. EEW(1)/L-74 DATE JUNE, 1991

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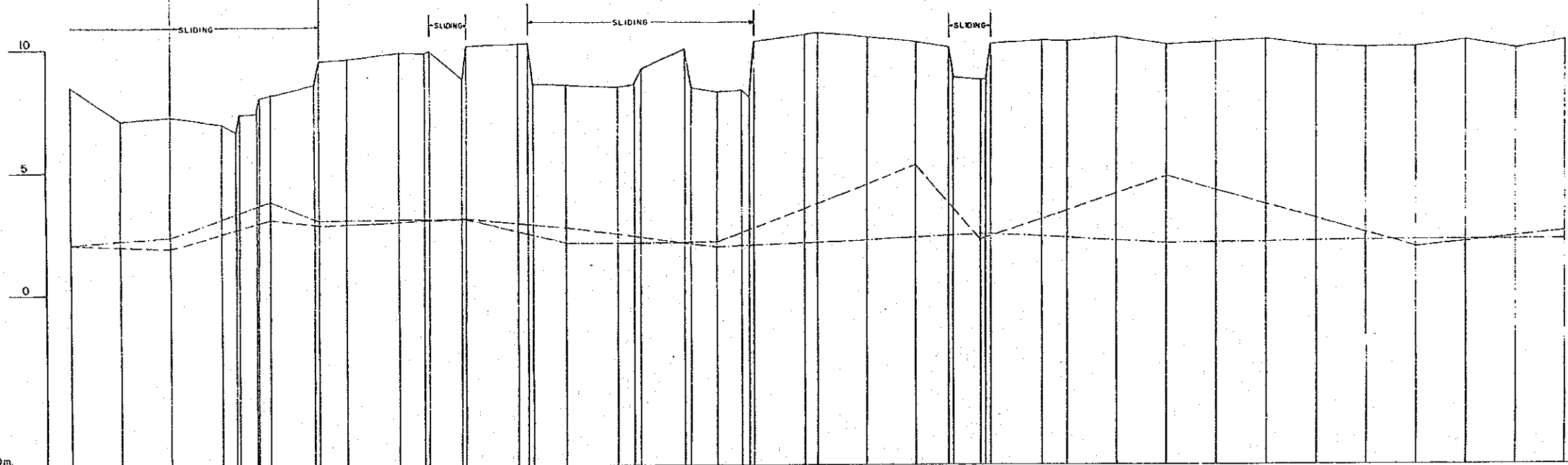
LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT ———

**GREATER DHAKA PROTECTION PROJECT**  
 (STUDY IN DHAKA METROPOLITAN AREA)  
**BANGLADESH FLOOD ACTION PLAN NO.8A**  
 DHAKA METROPOLITAN AREA  
**EXISTING WEST EMBANKMENT ( I )**  
**LONG SECTION**

TONGI-MIRPUR BRIDGE	SCALE	H=1:5000 V=1:100
DWG. NO. EEW11/L-5	DATE	JUNE, 1991

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SLUICE GATE  
PROPOSED AT BRIDGE STATION 10+L

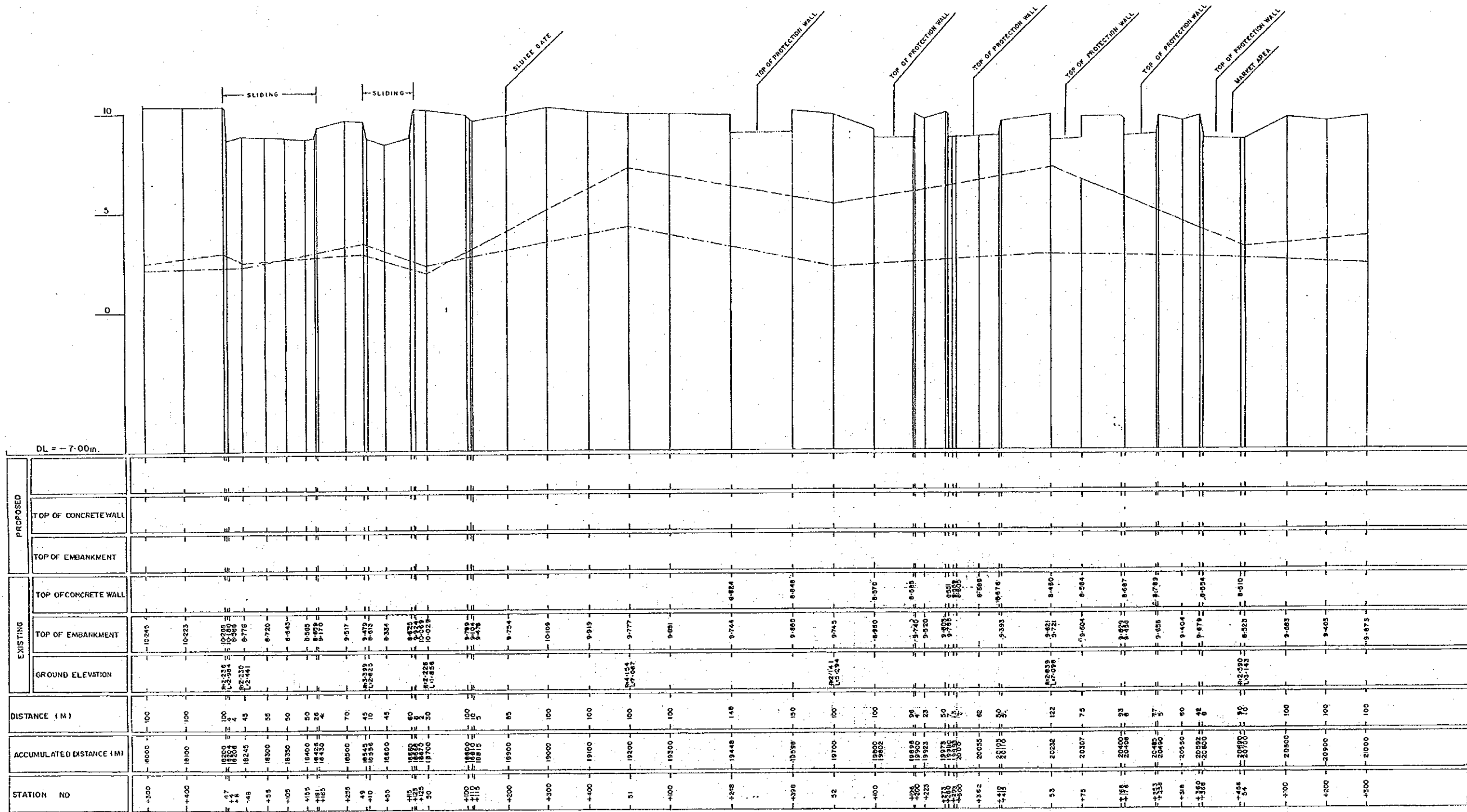


DL = -7.00m

STATION NO.	ACCUMULATED DISTANCE (M)	DISTANCE (M)	EXISTING		PROPOSED	
			GROUND ELEVATION	TOP OF EMBANKMENT	TOP OF CONCRETE WALL	TOP OF EMBANKMENT
35	15000	100	8.2085 L:2.043	8.467		
36	15100	100	7.294	7.093		
37	15200	100	6.907	6.562		
38	15300	100	6.532	6.302		
39	15400	100	6.157	5.982		
40	15500	100	5.782	5.483		
41	15600	100	5.407	5.143		
42	15700	100	5.032	4.772		
43	15800	100	4.657	4.469		
44	15900	100	4.282	4.139		
45	16000	100	3.907	3.789		
46	16100	100	3.532	3.472		
47	16200	100	3.157	3.098		
48	16300	100	2.782	2.808		
49	16400	100	2.407	2.468		
50	16500	100	2.032	2.143		
51	16600	100	1.657	1.772		
52	16700	100	1.282	1.469		
53	16800	100	0.907	1.139		
54	16900	100	0.532	0.839		
55	17000	100	0.157	0.569		
56	17100	100		0.269		
57	17200	100				
58	17300	100				
59	17400	100				
60	17500	100				
61	17600	100				
62	17700	100				
63	17800	100				
64	17900	100				
65	18000	100				

LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT - - - - -

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A  
 DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT ( I )  
 LONG SECTION  
 TONGI-MIRPUR BRIDGE SCALE H:V = 1:5000  
 DWG. NO. EEW(I)/L-6 DATE JUNE, 1991  
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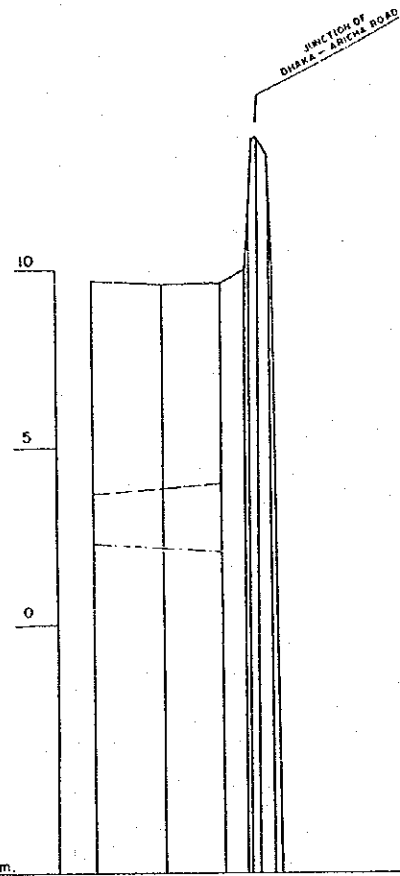


**LEGEND**  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT ———  
 TOP OF PROTECTION WALL ———

**GREATER DHAKA PROTECTION PROJECT**  
 (STUDY IN DHAKA METROPOLITAN AREA)  
**BANGLADESH FLOOD ACTION PLAN NO.8A**  
 DHAKA METROPOLITAN AREA  
**EXISTING WEST EMBANKMENT (I)**  
**LONG SECTION**

TONGI-MIRPURBRIDGE	SCALE	N 1:5000
DWG. NO. EEWH/L-7	DATE	JUNE, 1991

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DL = -7.00m.									
PROPOSED	TOP OF CONCRETE WALL								
	TOP OF EMBANKMENT								
EXISTING	TOP OF CONCRETE WALL								
	TOP OF EMBANKMENT	8.673	10.388	9.570	11.111	11.111	11.111	11.111	11.111
	GROUND ELEVATION			R=200 L=89.4					
(DISTANCE (M))	100	100	12	11	11	11	11	11	11
ACCUMULATED DISTANCE (M)	21000	21100	21112	21123	21134	21145	21156	21167	21178
STATION NO	3300	3400	35	36	37	38	39	40	41

LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION - - - -  
 RIGHT ———  
 LEFT - - - -

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT (I)  
 LONG SECTION

TONGI-MIRPUR BRIDGE	SCALE	H=1:5000 V=1:100
DWG. NO. EEW(I)/L-8	DATE	JUNE, 1991

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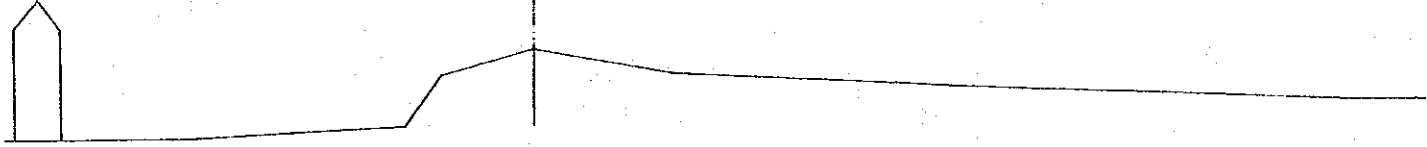
3

EH=6.350



2

EH=6.704



1

EH=10.741m

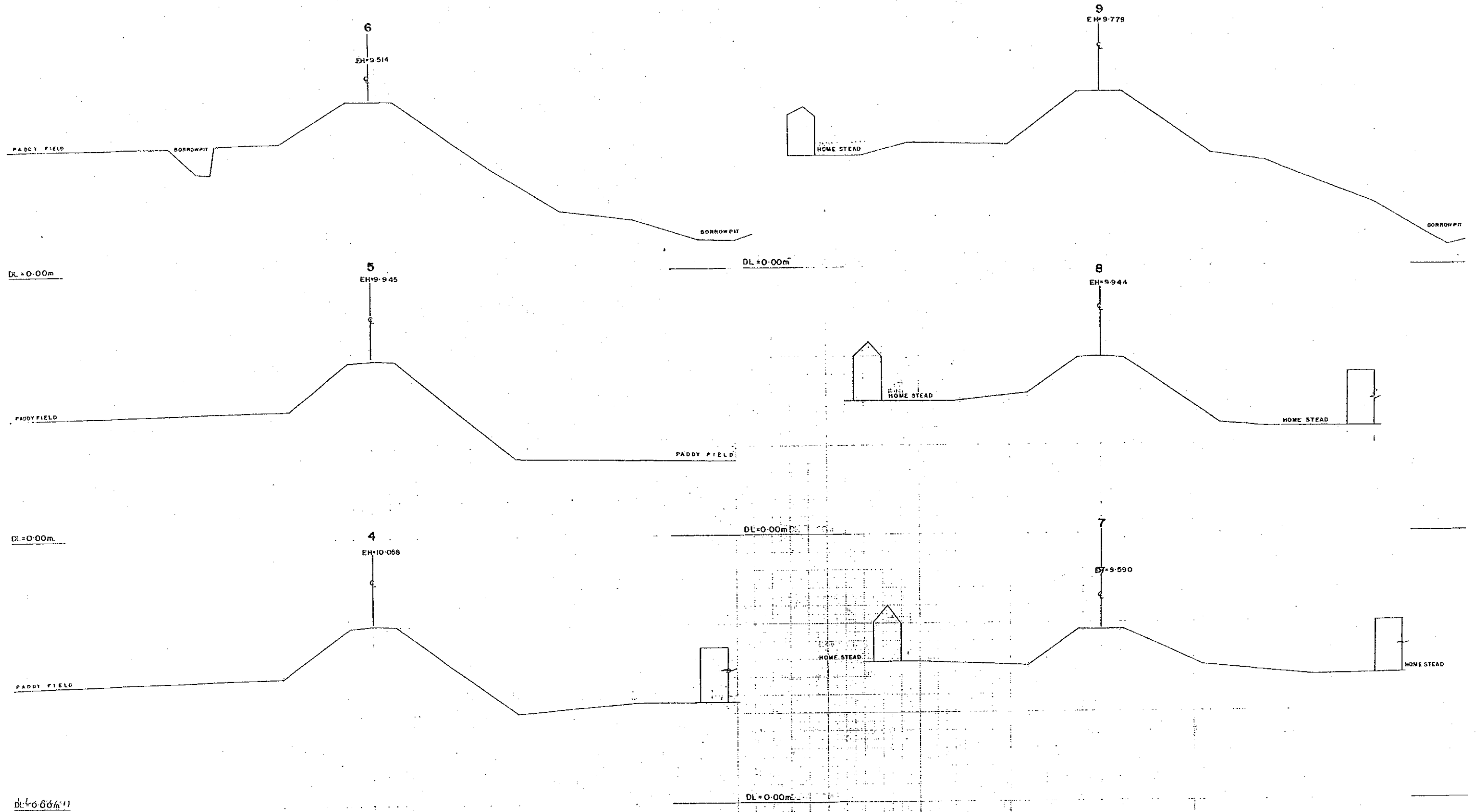


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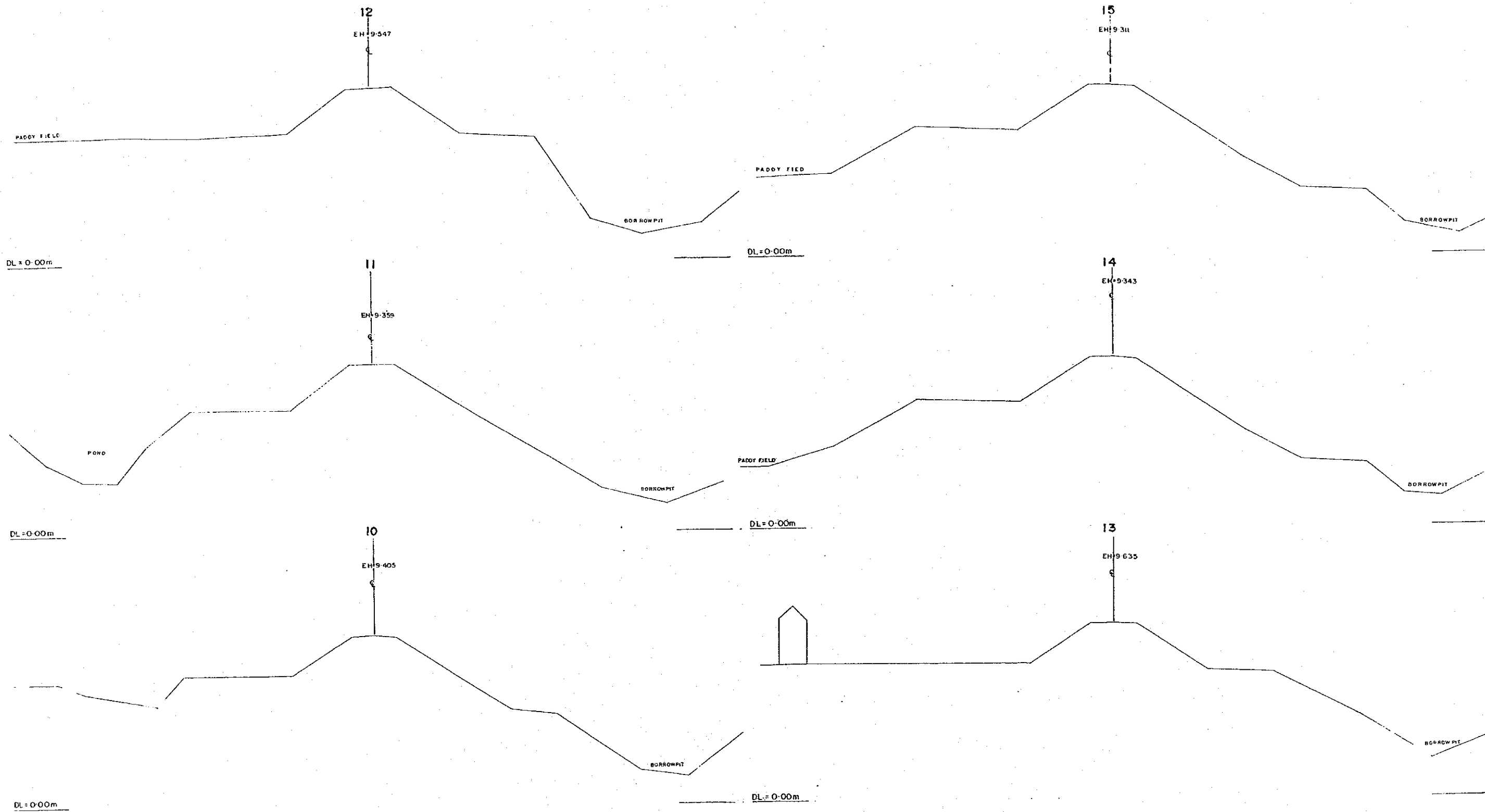
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GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMET (I)			
GROSS SECTION			
TONGI-MIRPUR	SCALE	H:1:200 V:1:100	
DWG. NO. EEW(1)/C-1	DATE	JUNE, 1991	
JAPAN INTERNATIONAL CO OPERATION AGENCY			

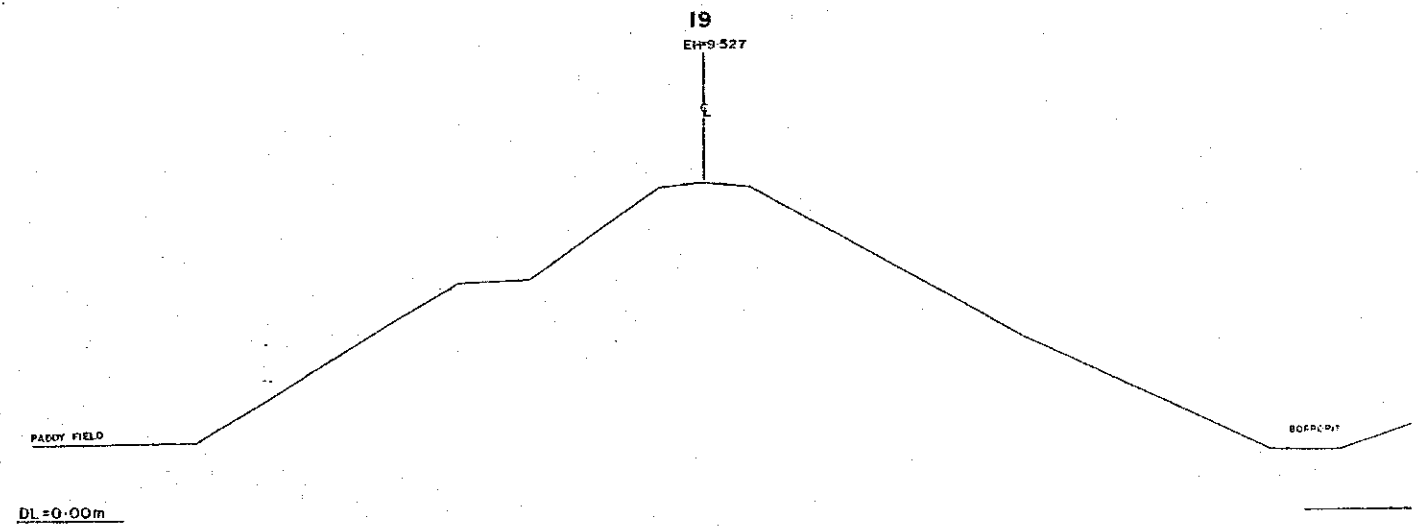
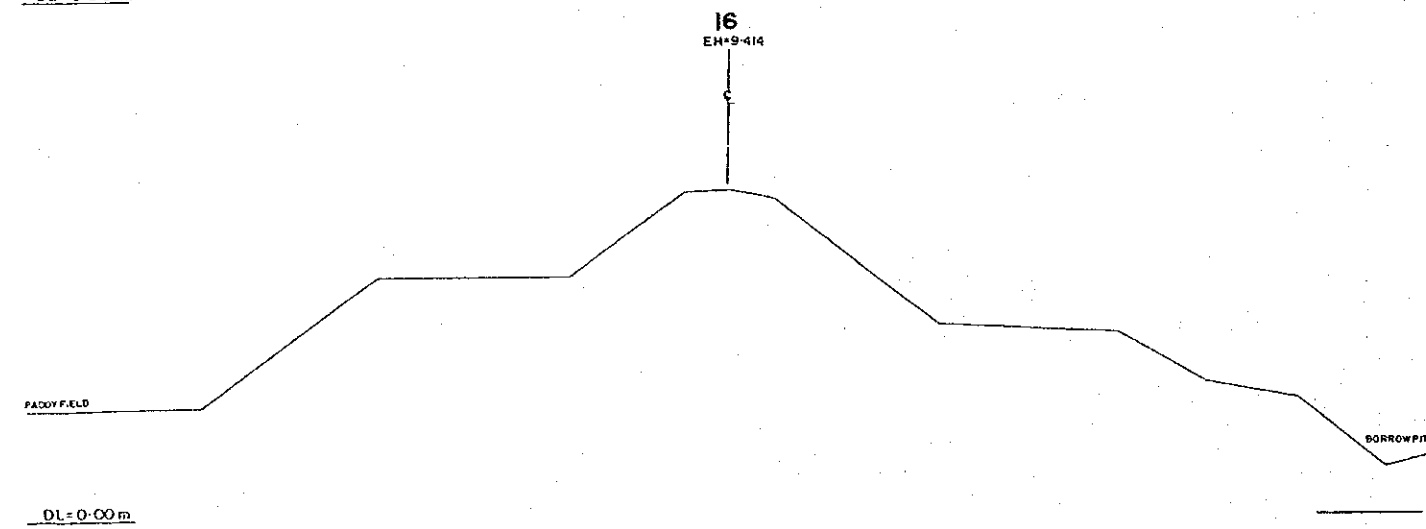
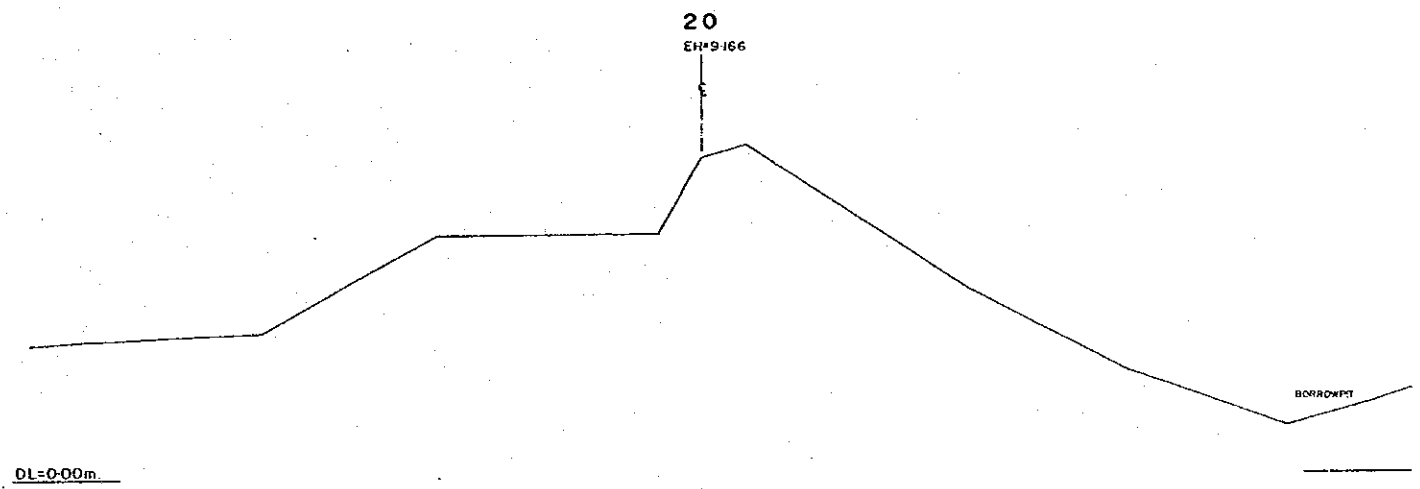
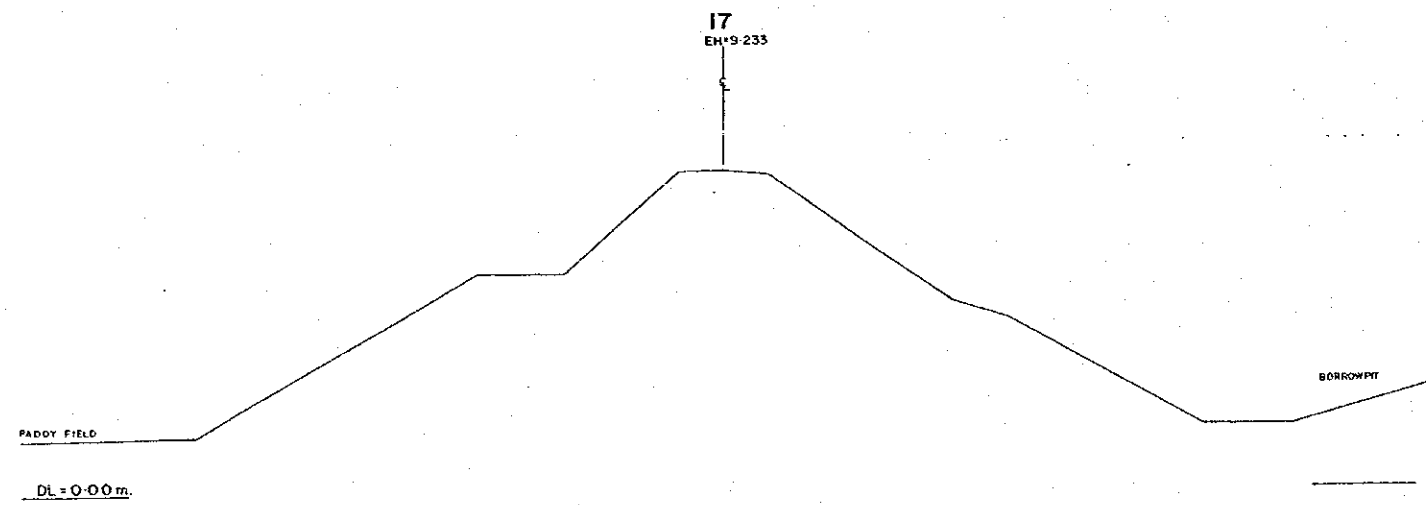
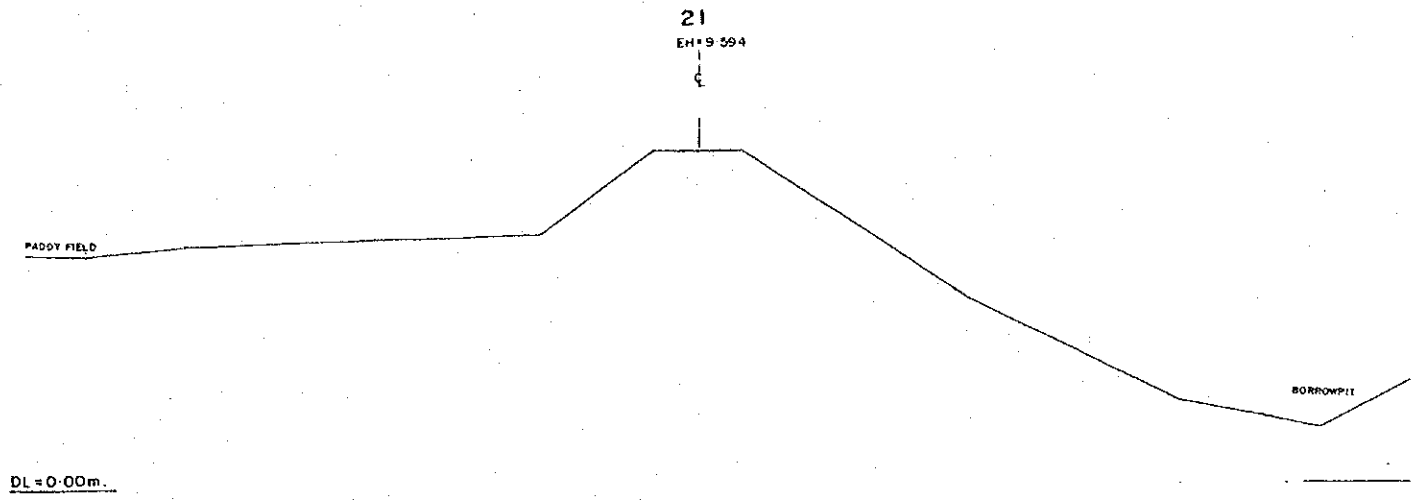
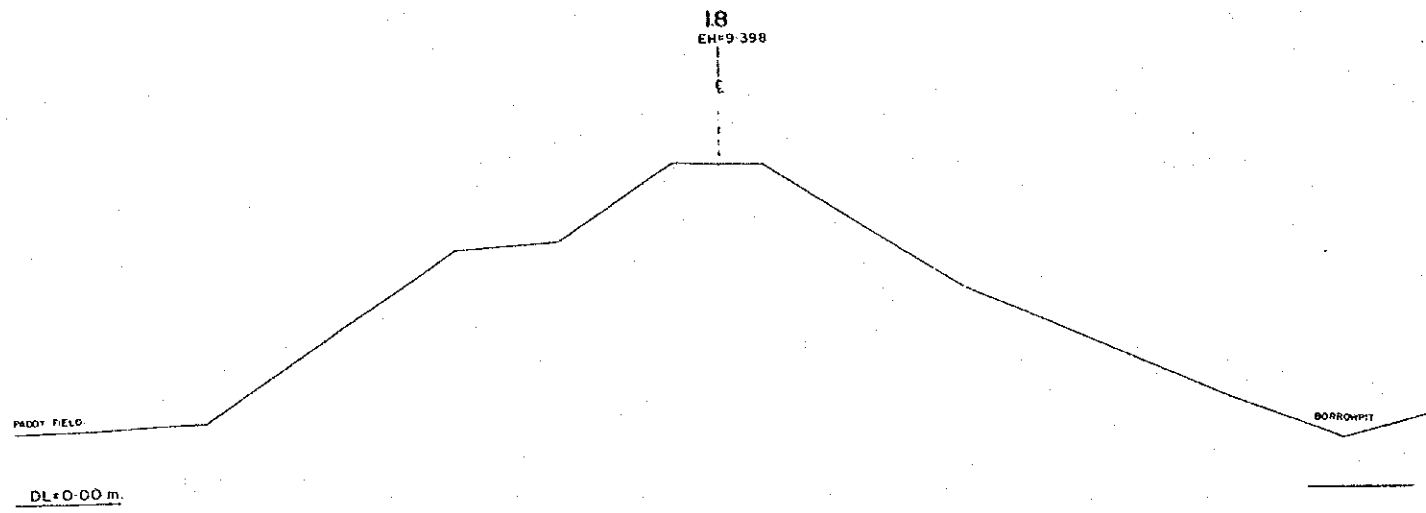


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DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (I)			
CROSS SECTION			
TONGI - MIRPUR	SCALE	H3:1:200 V:1:100	
DWG. NO. EEW(11)/C-2	DATE	JUNE, 1991	
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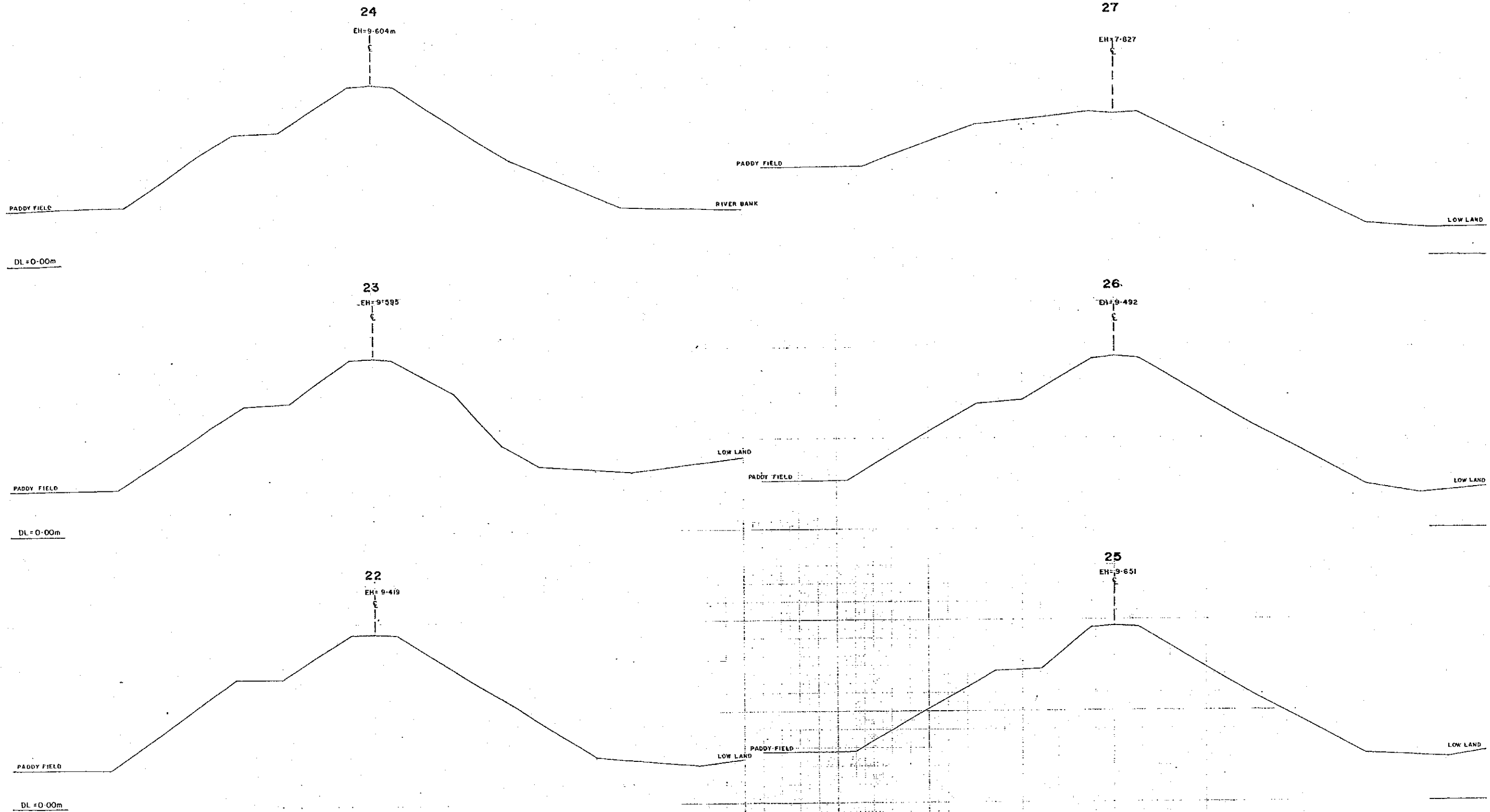




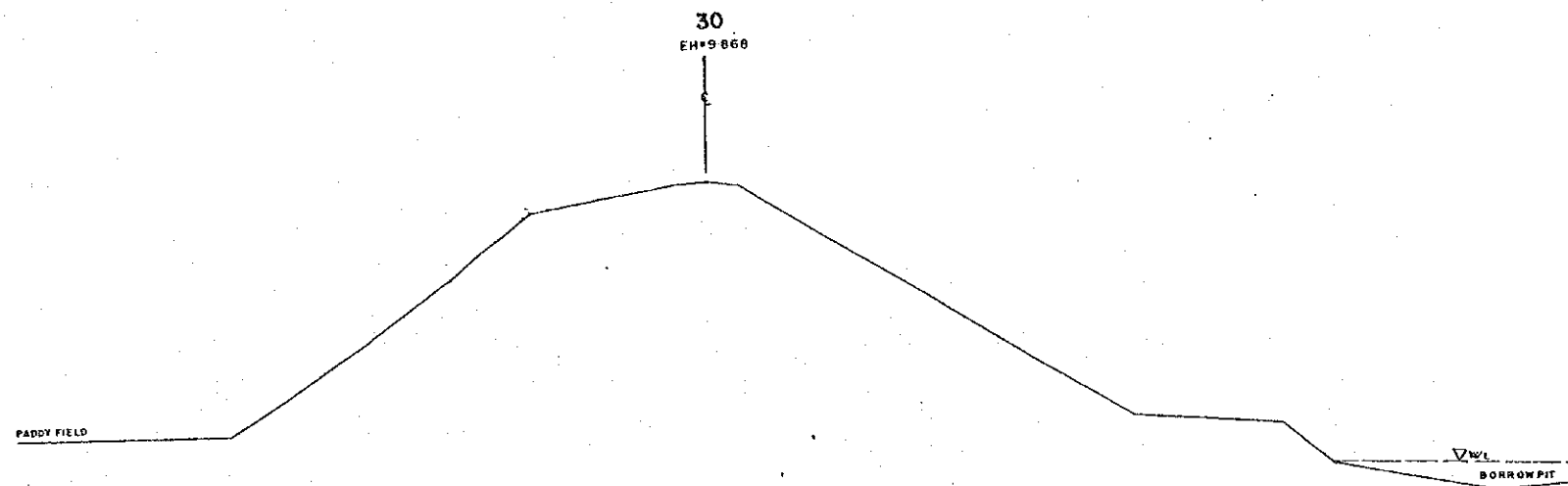
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CROSS SECTION			
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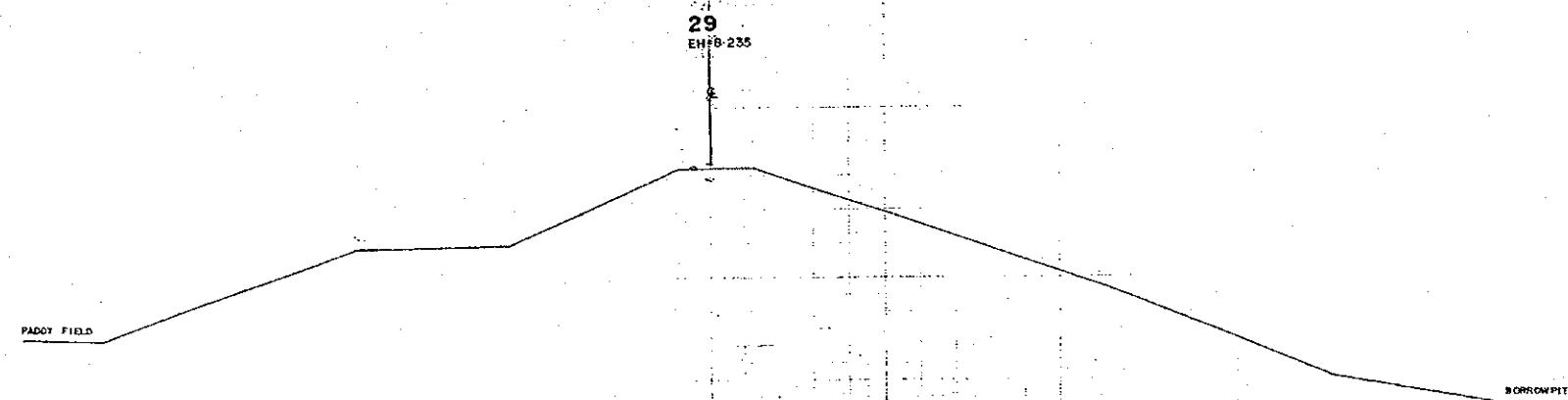
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EXISTING WEST EMBANKMENT (I)		
CROSS SECTION		
TONGI - MIRPUR	SCALE	H = 1: 200 V = 1: 100
DWG. NO. EEW(11)/C-4	DATE	JUNE, 1991
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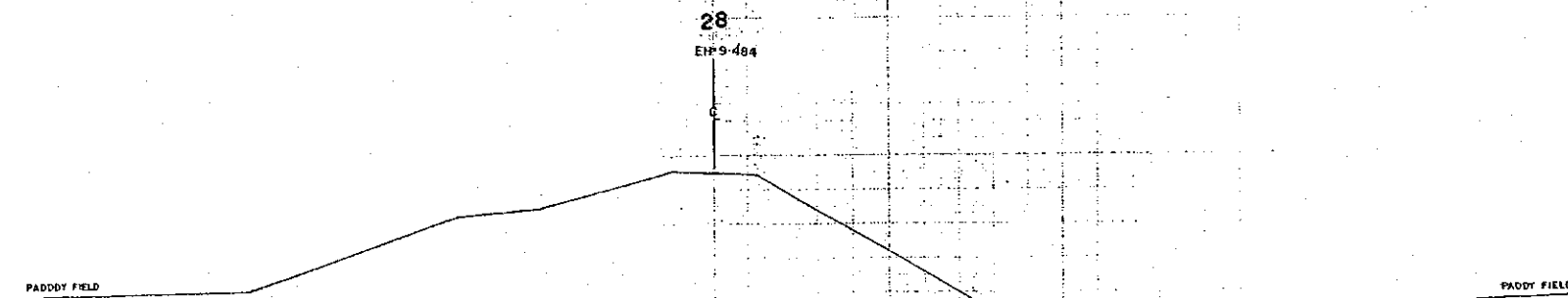
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TONGI-MIRPUR	SCALE	H=1:200	V=1:100
DWG. NO. EEW(I)/C-5	DATE	JUNE, 1991	
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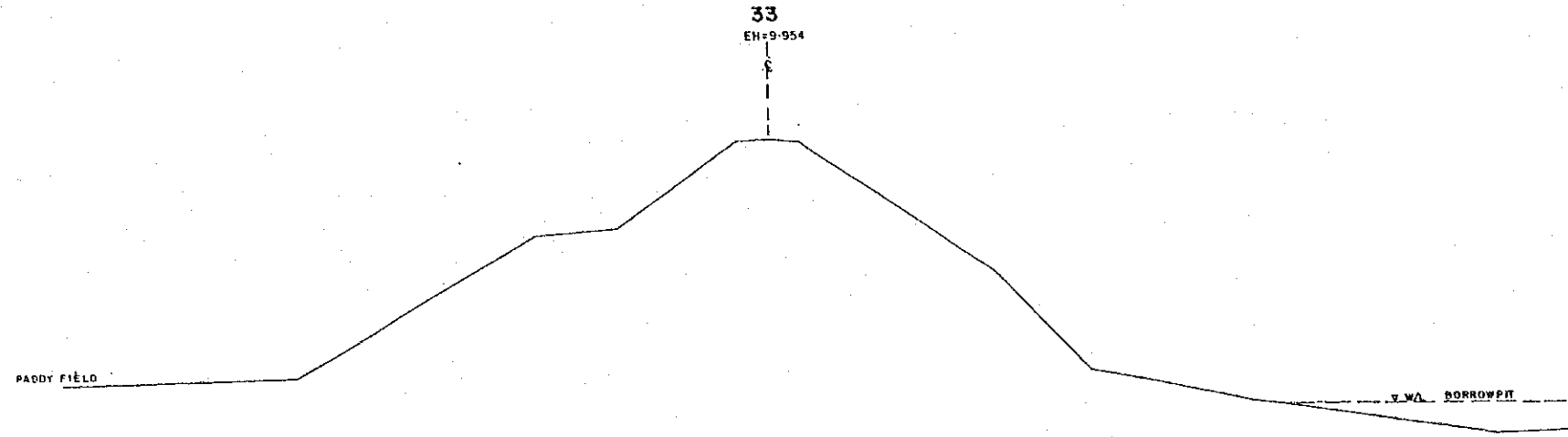


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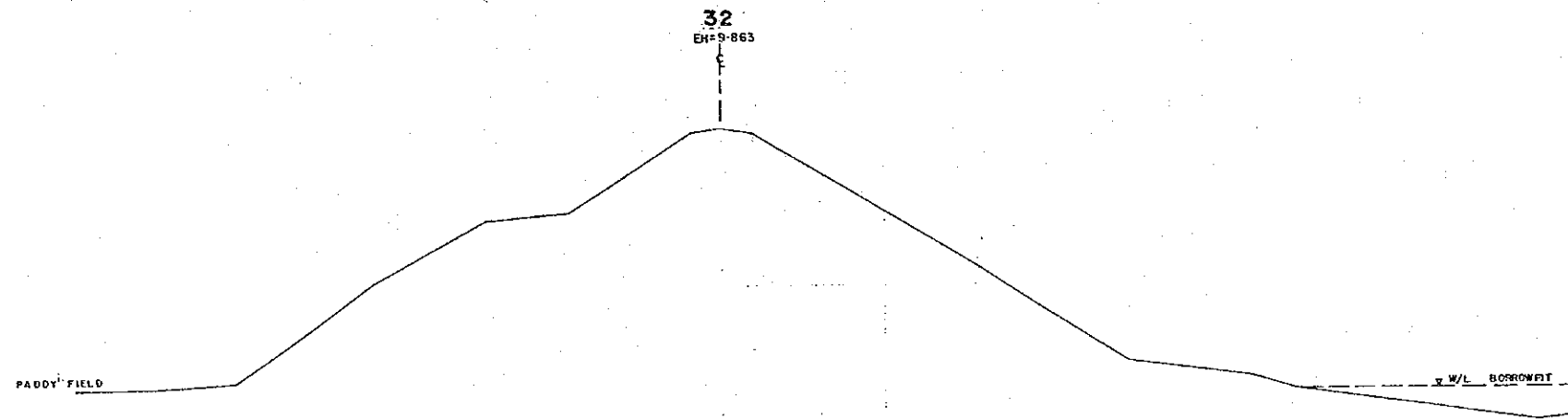


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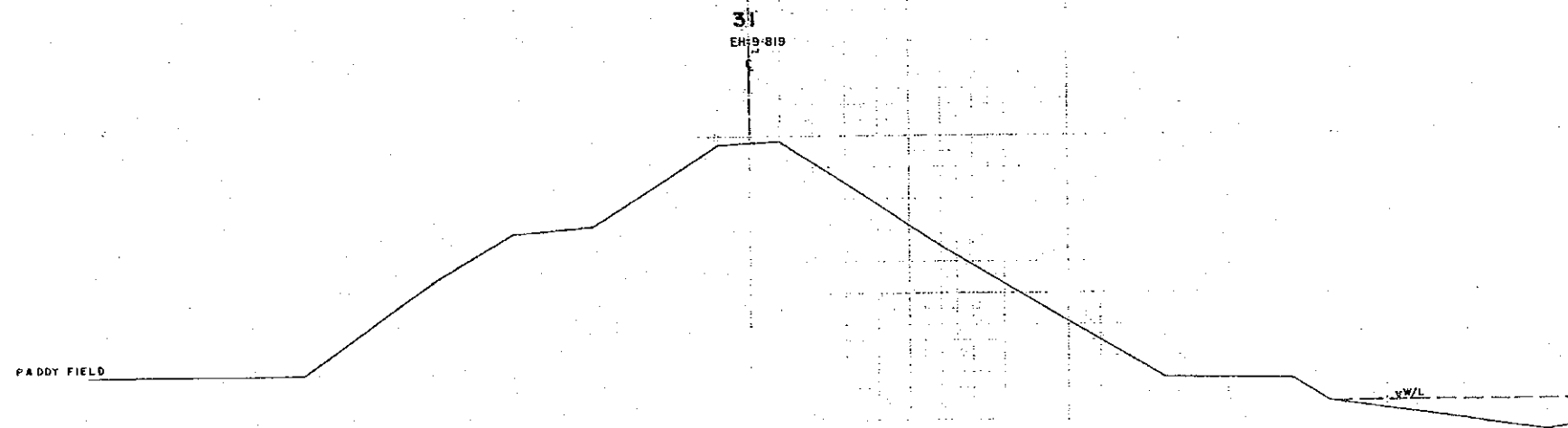
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STUDY IN DHAKA METROPOLITAN AREA		
BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA		
EXISTING WEST EMBANKMENT (1)		
CROSS SECTION		
TONGI- MIRPUR	SCALE	H=1:200 V=1:100
DWG NO. EEW(1)/C-6	DATE	JUNE, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY		



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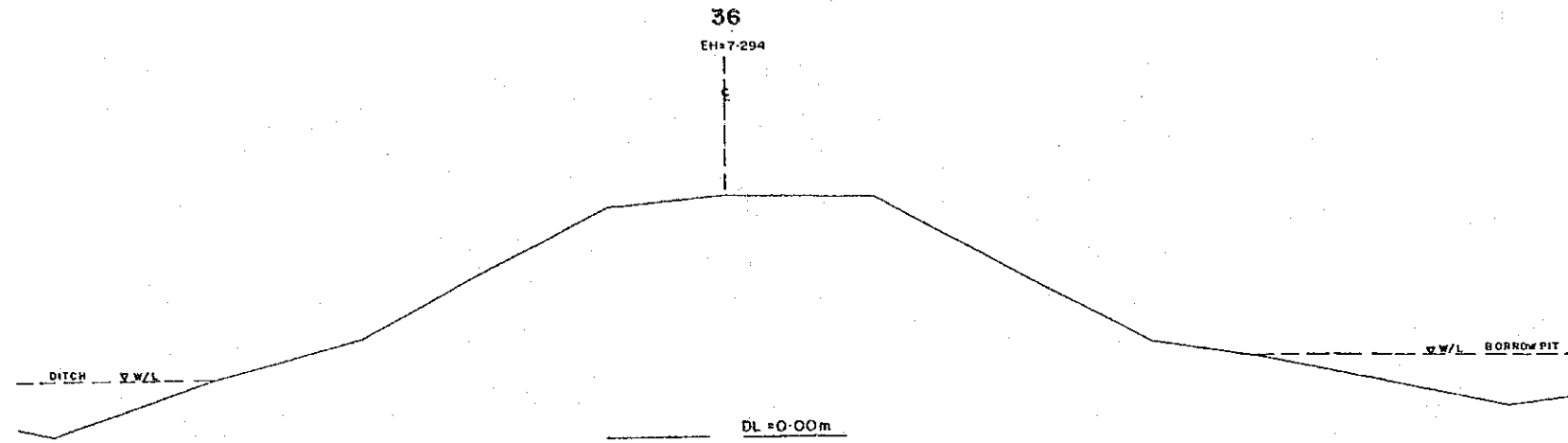
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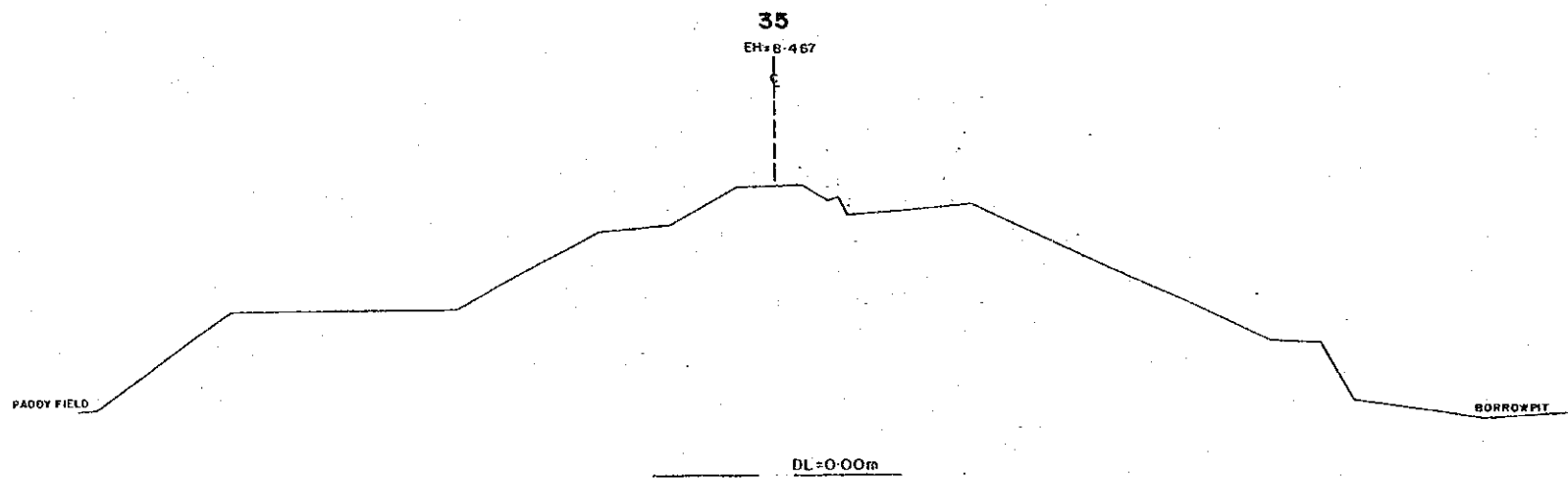
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GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (I)			
CROSS SECTION			
TONGI- MIRPUR	SCALE	H <sub>1</sub> 1:200	H <sub>2</sub> 1:100
DWG NO. EEW(I)/C-7	DATE	JUNE, 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			

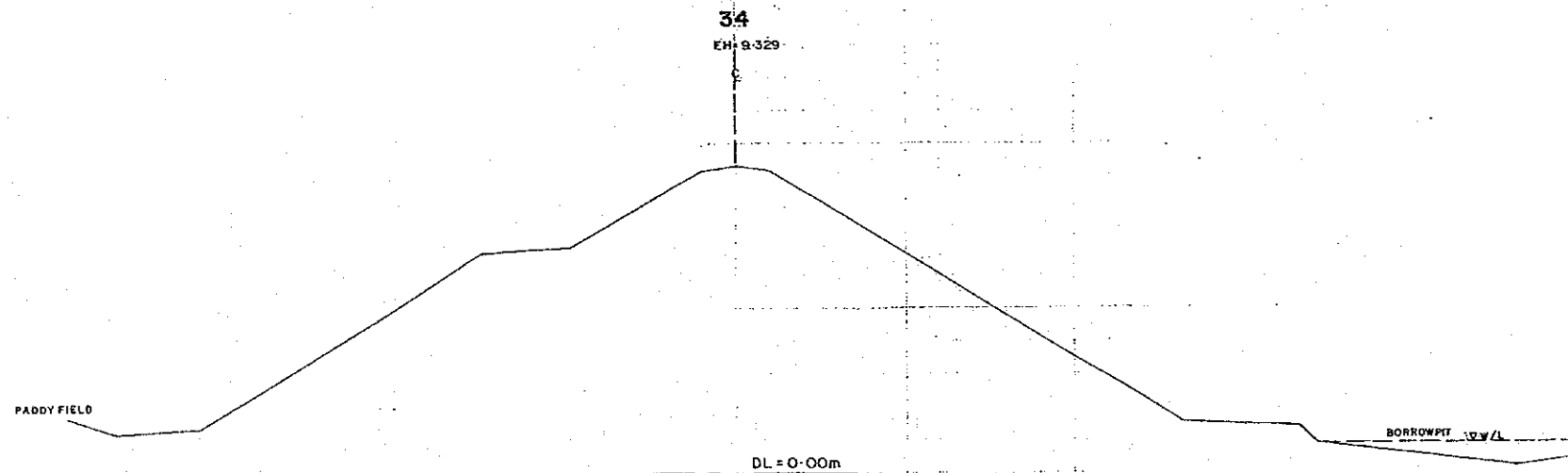
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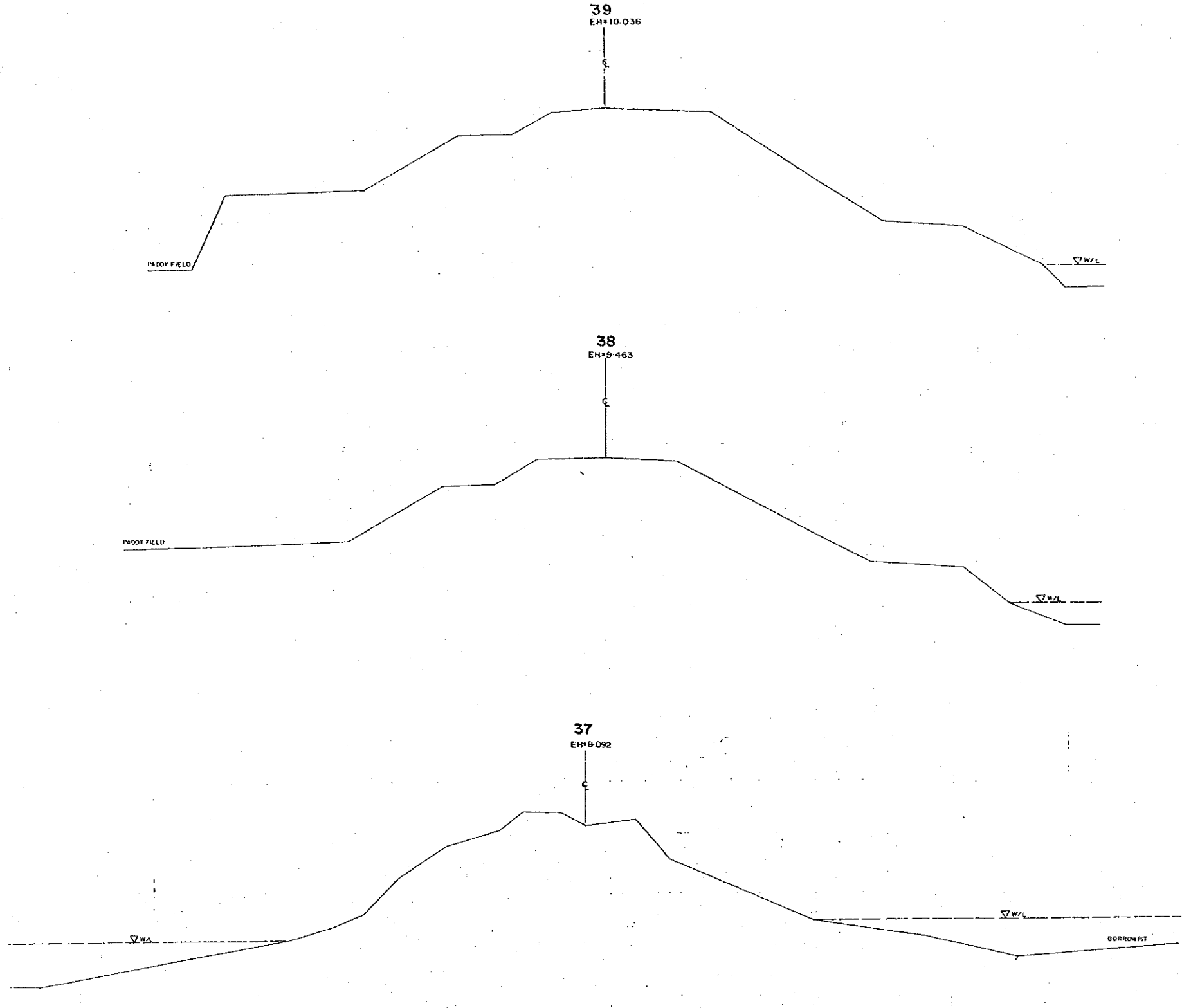
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GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (I)			
CROSS SECTION			
TONGI- MIRPUR	SCALE	H: 200 V: 100	
DWG NO. E.E.W(I)/C-8	DATE	JUNE, 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			

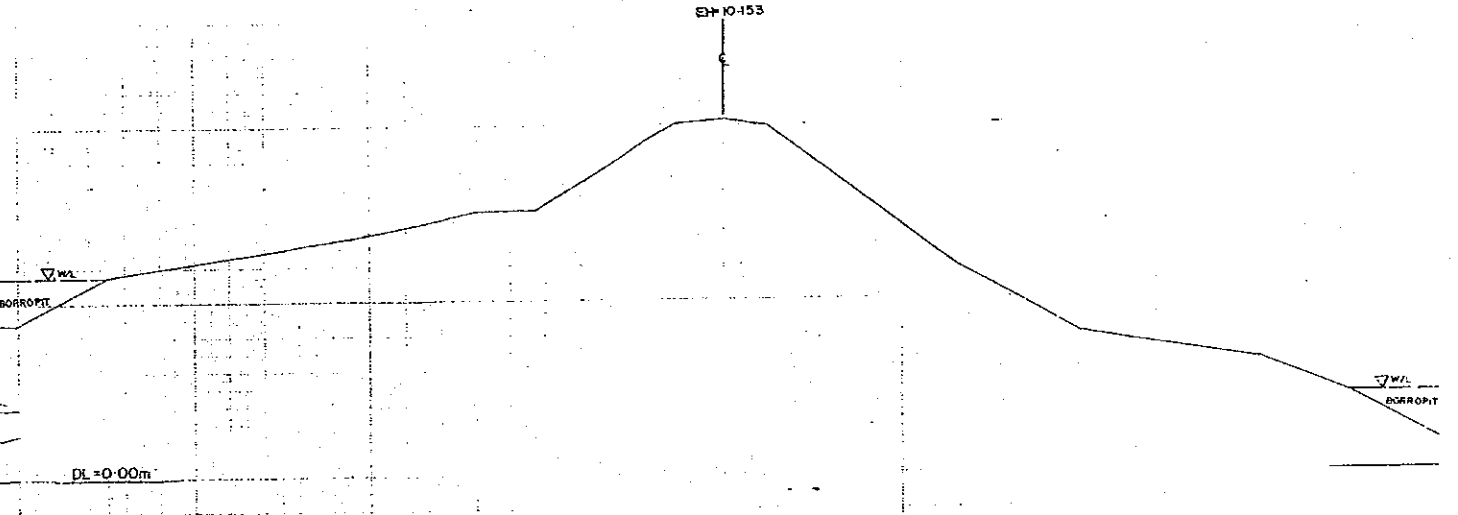
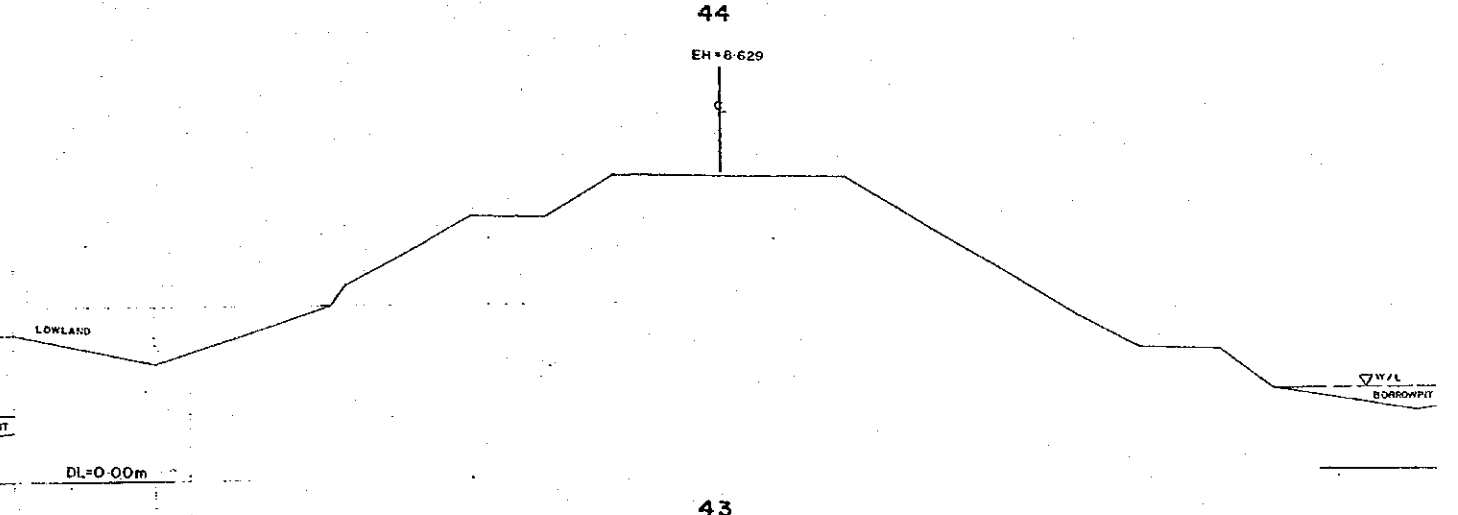
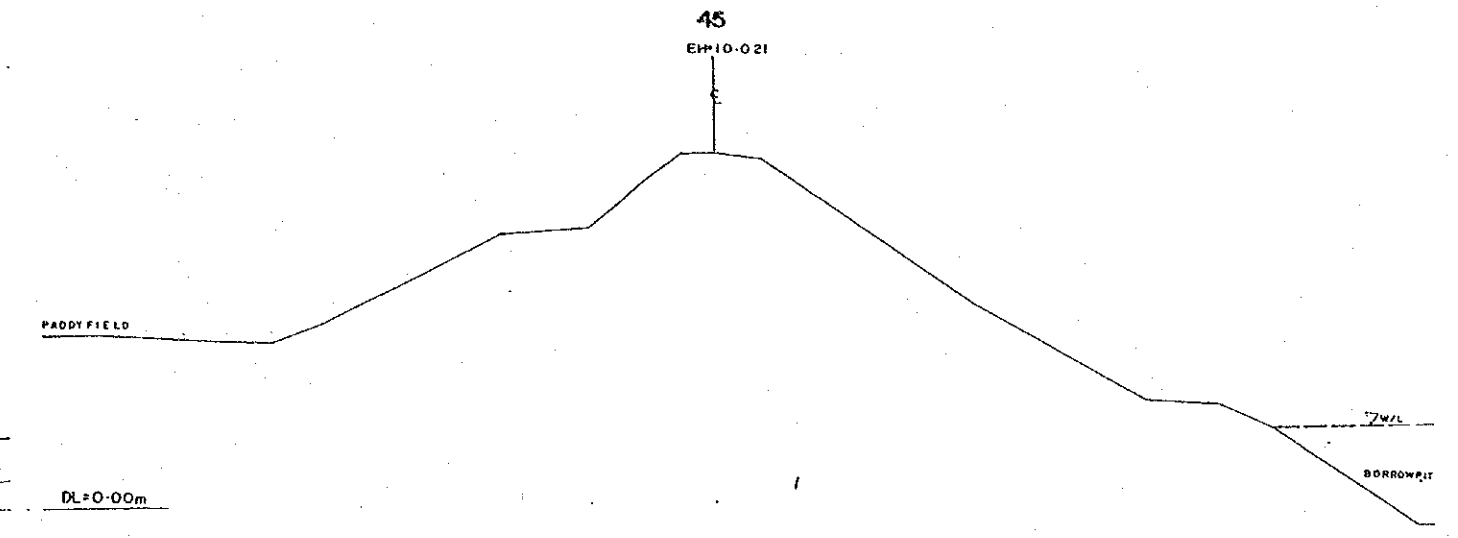
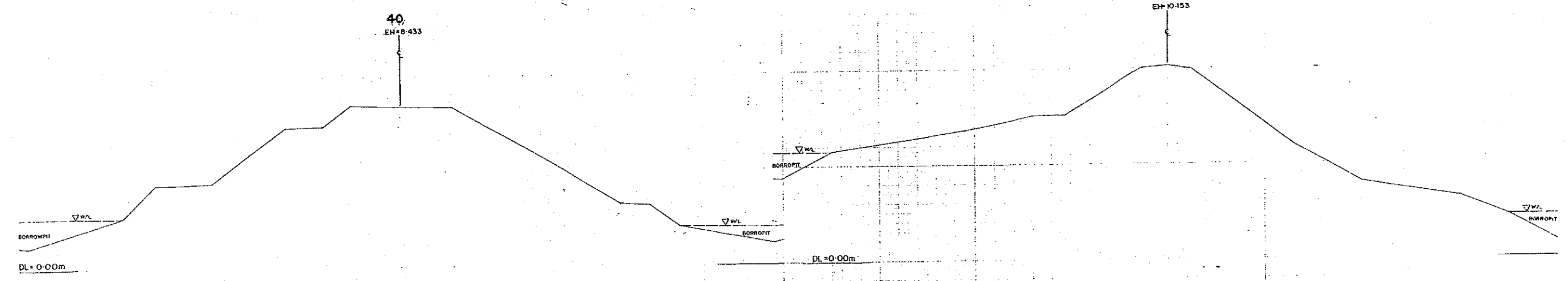
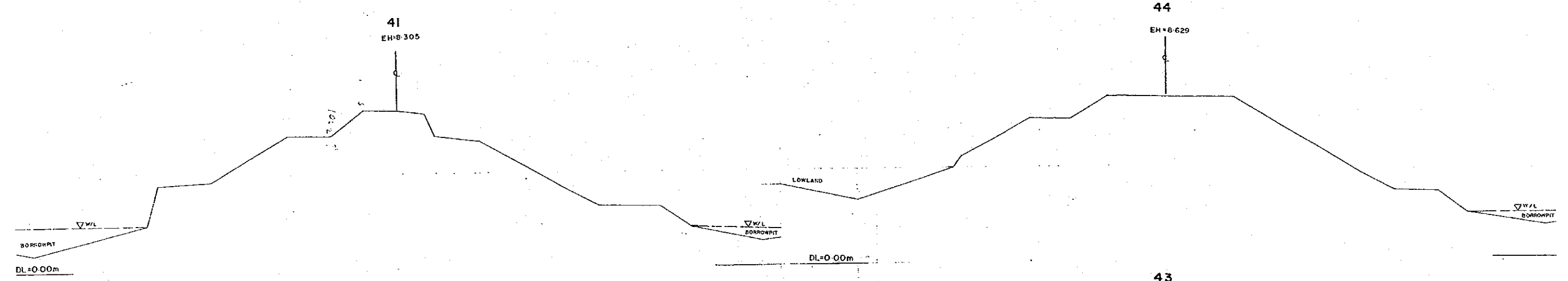
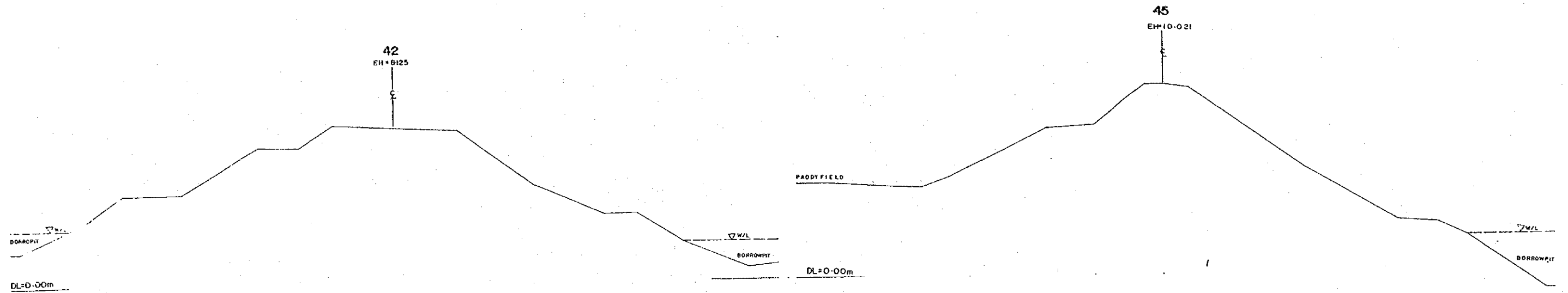


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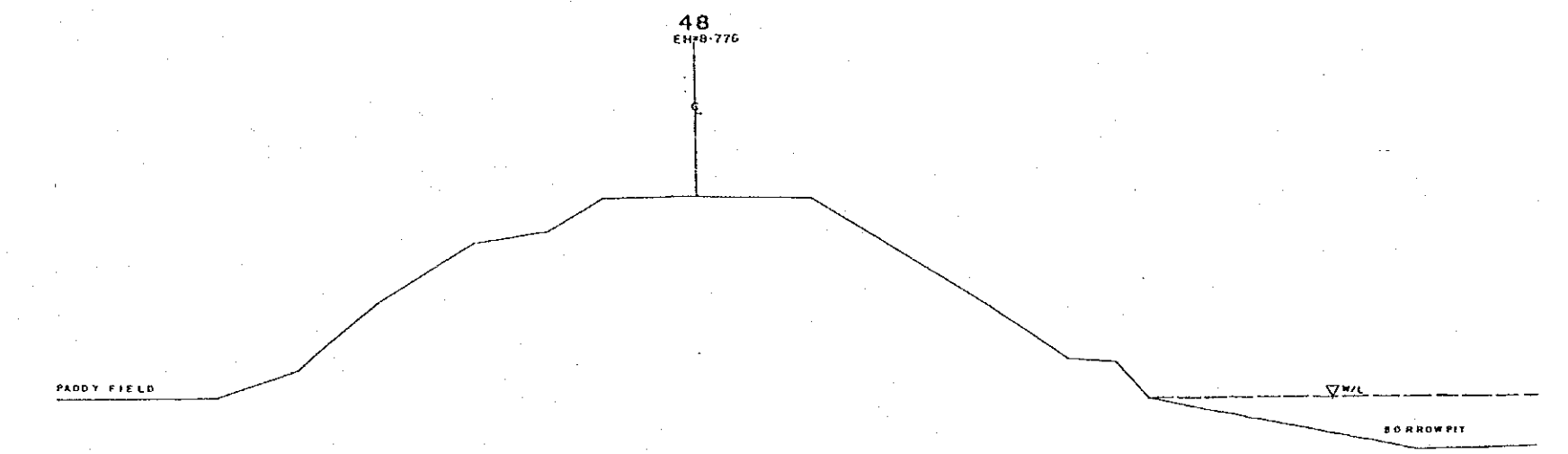
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GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA EXISTING WEST EMBANKMENT(I) CROSS SECTION		
TONGI - MIRPUR	SCALE	H=1:200 V=1:100
DWG. NO. E'EW(1)/C-9	DATE	JUNE, 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY		

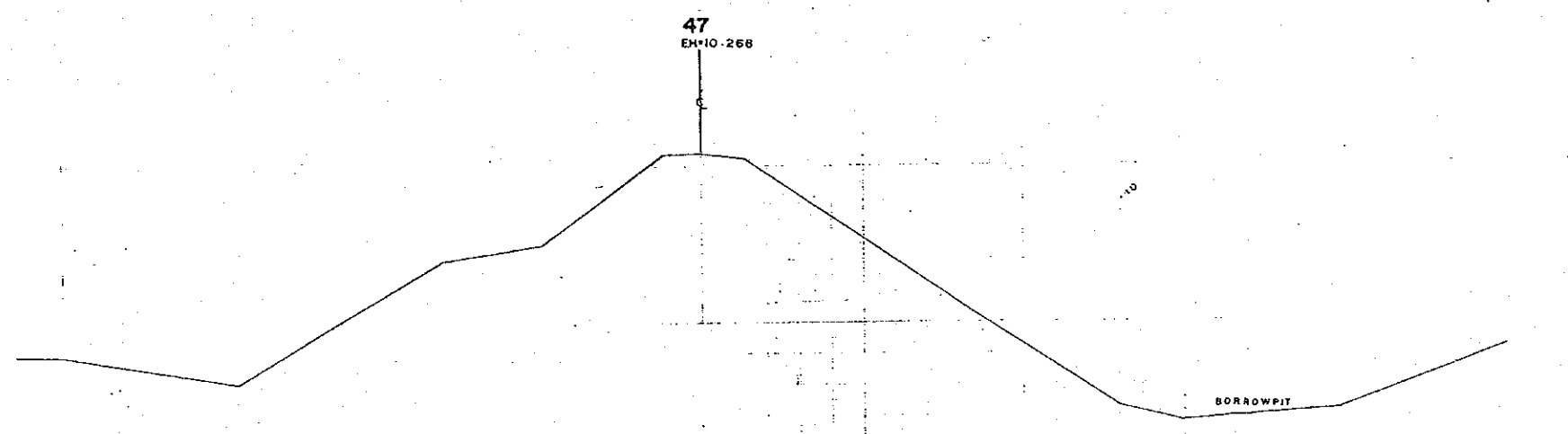


GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (I)			
CROSS SECTION			
TONGI - MIRPUR	SCALE	H=1:200 V=1:100	
DWG. NO. EEW(1)/C-10	DATE	JUNE, 1981	
JAPAN INTERNATIONAL CO OPERATION AGENCY			

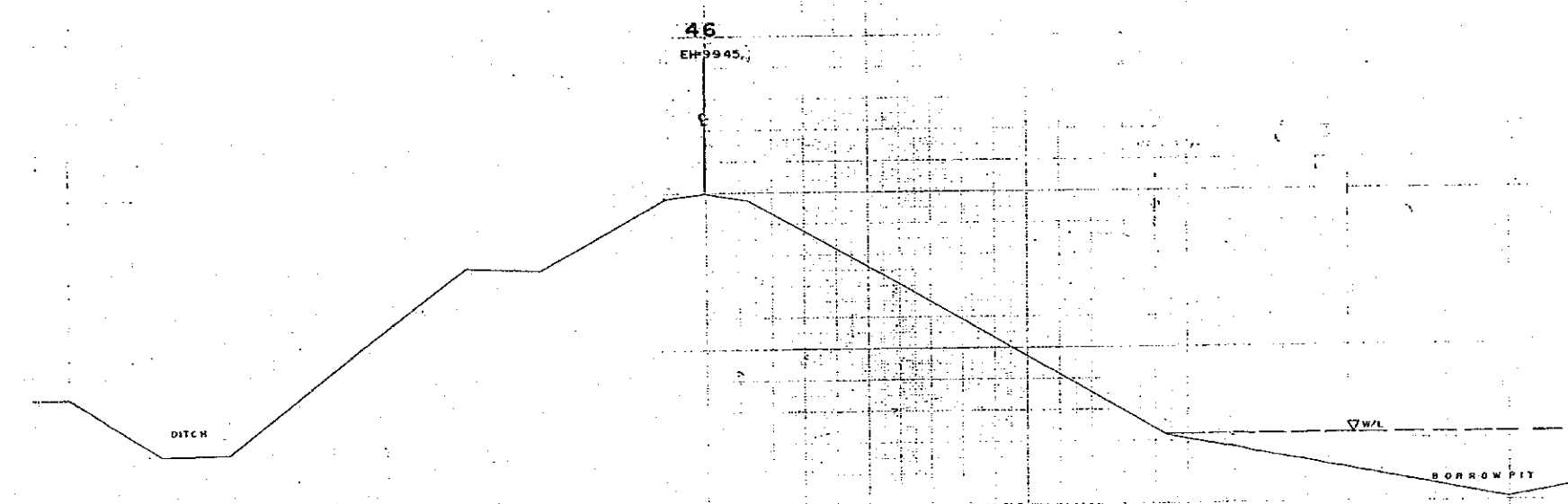




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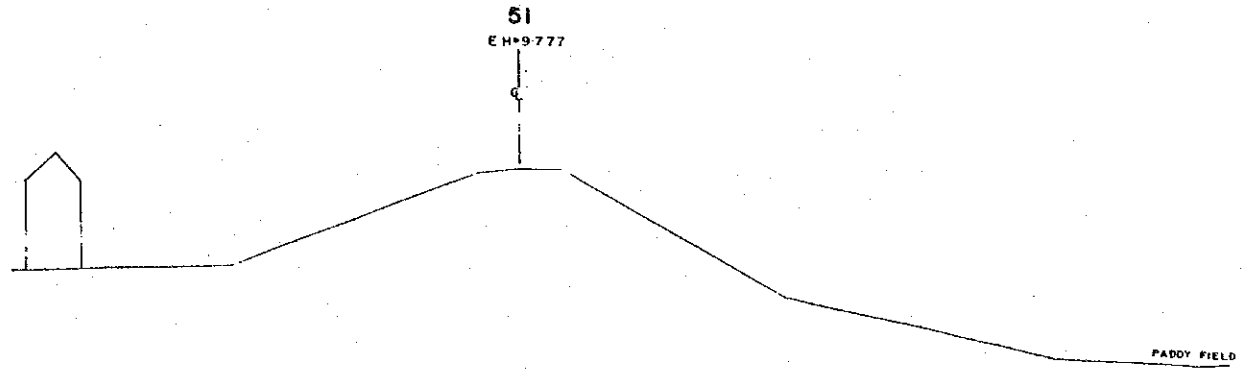


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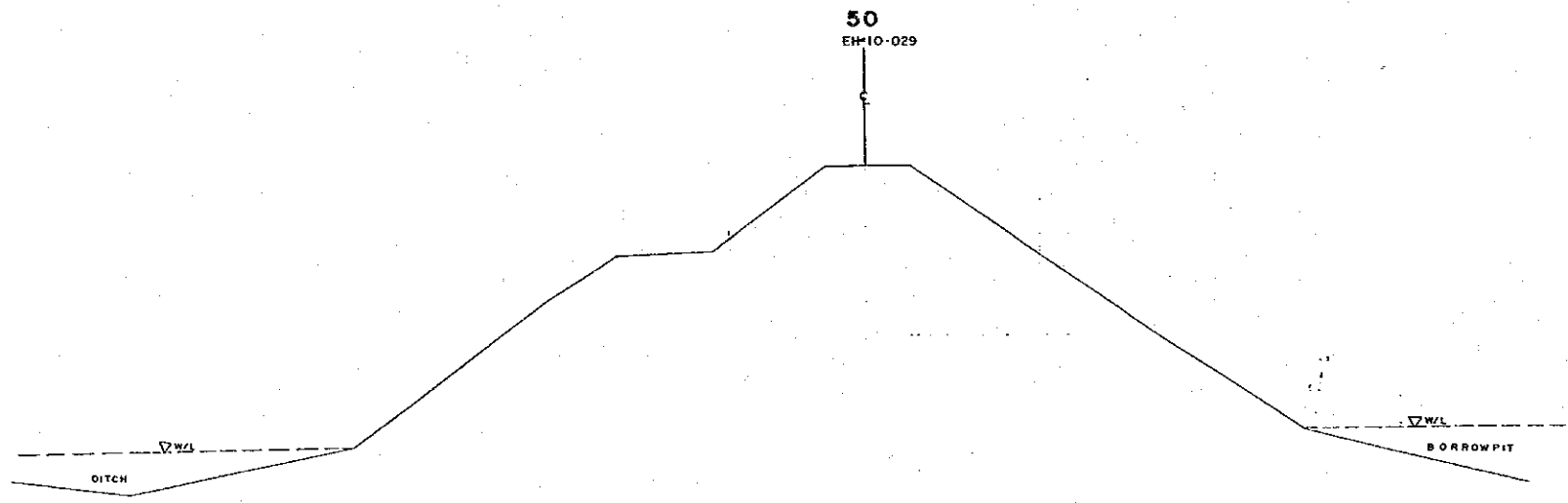


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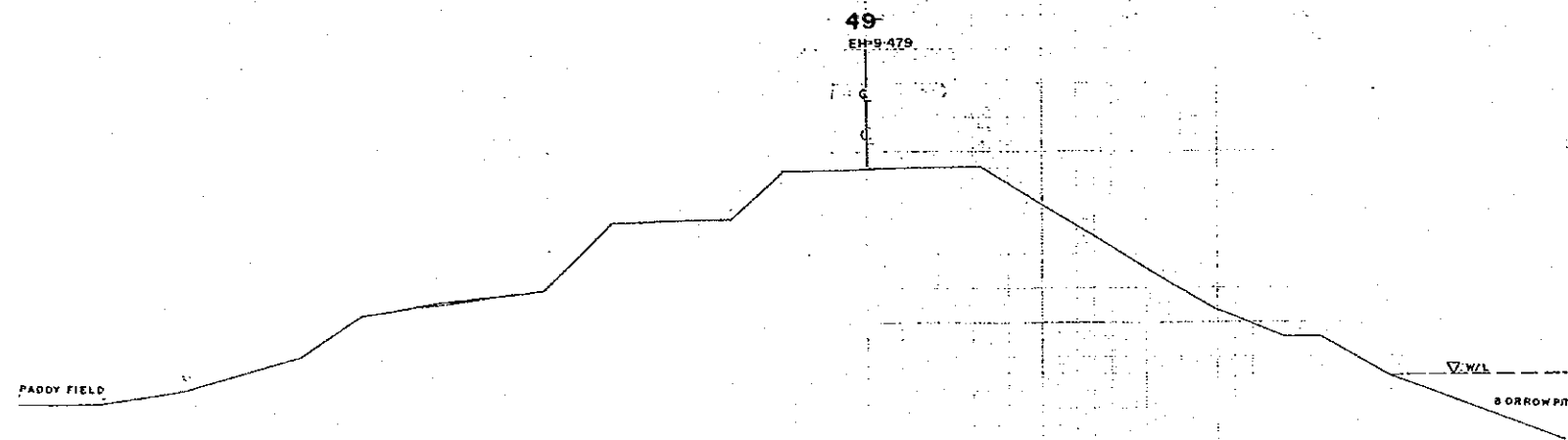
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA EXISTING WEST EMBANKMENT (I) CROSS SECTION			
TONGI - MIRPUR	SCALE	H:V	200:100
DWG. NO. EEW(I)/C-1	DATE	JUNE, 1991	
JAPAN INTERNATIONAL CO OPERATION AGENCY			



DL = 0.00

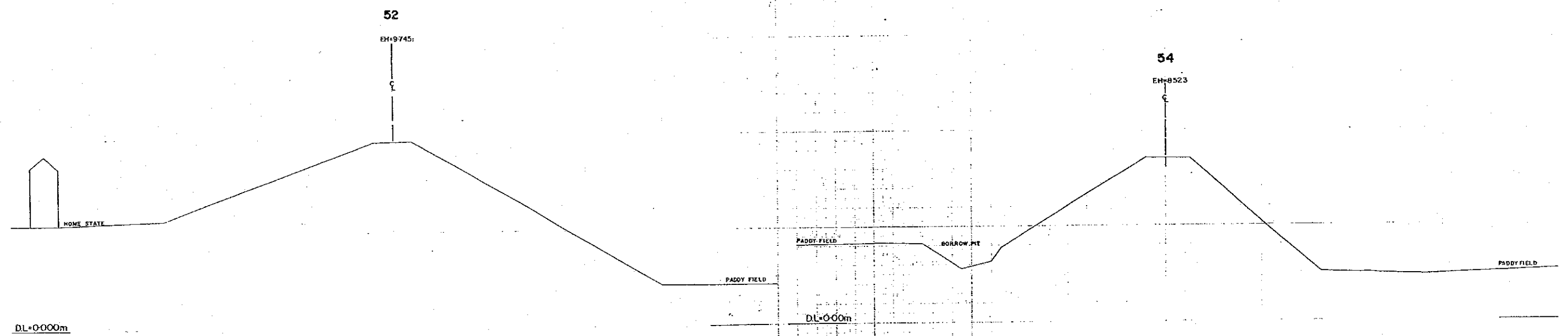
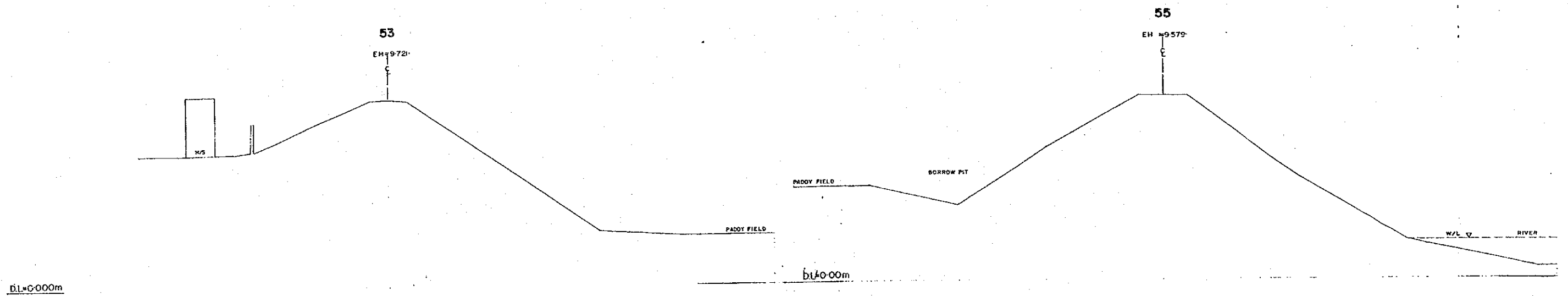


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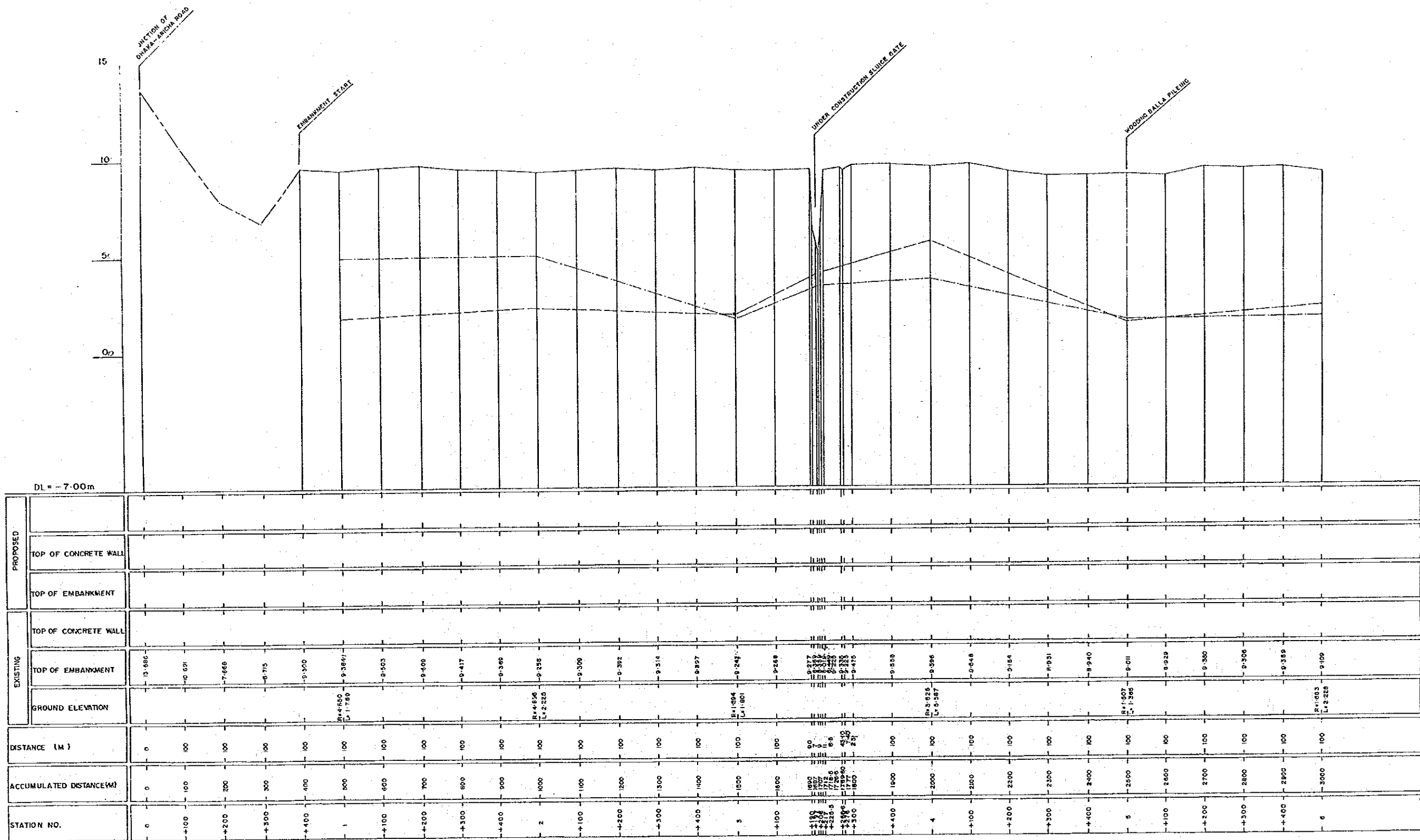


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GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (I)			
CROSS SECTION			
TONGI - MIRPUR		SCALE	N = 1:200
DWG. NO.	EEW(I)/C-12	DATE	JUNE, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



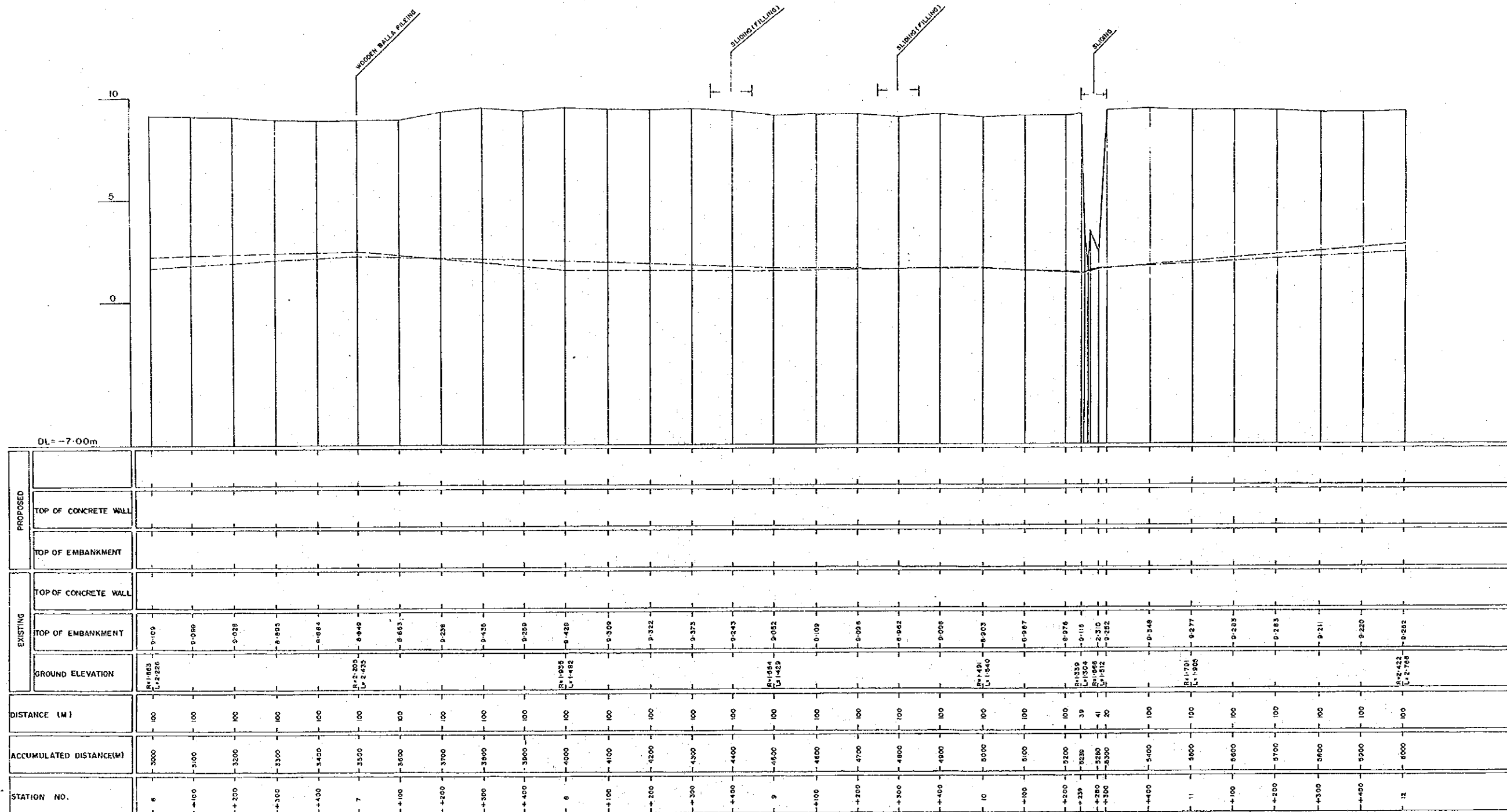
GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (I)			
CROSS SECTION			
TONGI - MIRPUR	SCALE	H = 1:200	V = 1:100
DWG NO. EEW(I)/C-18	DATE	JUNE, 1991	
JAPAN INTERNATIONAL CO-OPERATION AGENCY			



LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT ———

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A  
 DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT (2)  
 LONG SECTION

MIRPUR-SASANKHOLA SCALE H: 1:5000 V: 1:100  
 DWG. NO. EEW(2)/L-1 DATE JUNE, 1991  
 JAPAN INTERNATIONAL COOPERATION AGENCY

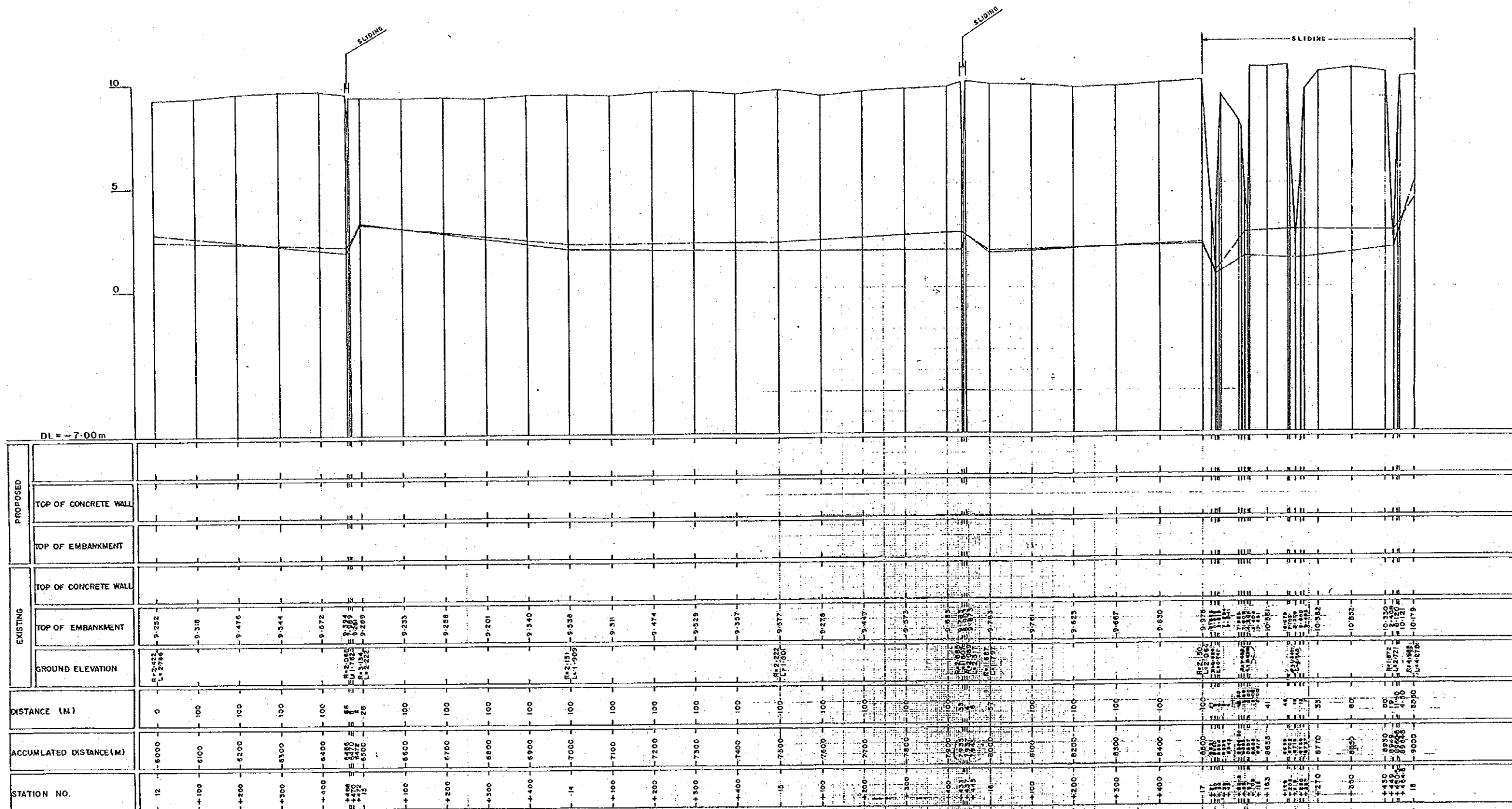


LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT ———

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A  
 DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT ( 2 )  
 LONG SECTION

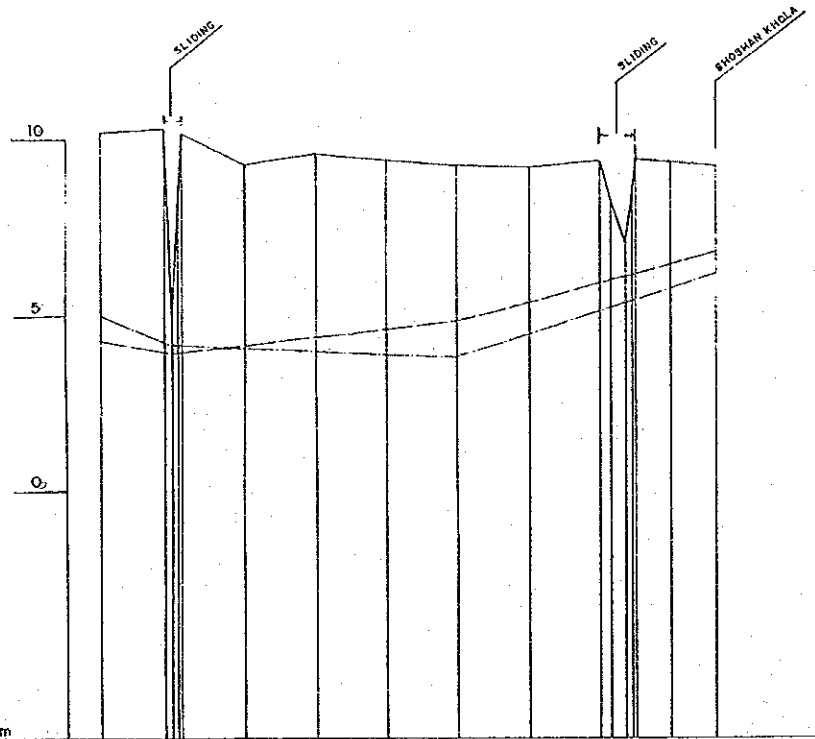
MIRPUR-SASANKHOLA	SCALE	H=1:5000 V=1:100
DWG NO. EEW(2)/L-2	DATE	JUNE, 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT ———

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A  
 DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT ( 2 )  
 LONG SECTION  
 MIRPUR - SASANKHOLA SCALE H=1:5000 V=1:100  
 DWG. NO. EEW(2) 2/53 DATE JUNE, 1991  
 JAPAN INTERNATIONAL CO OPERATION AGENCY



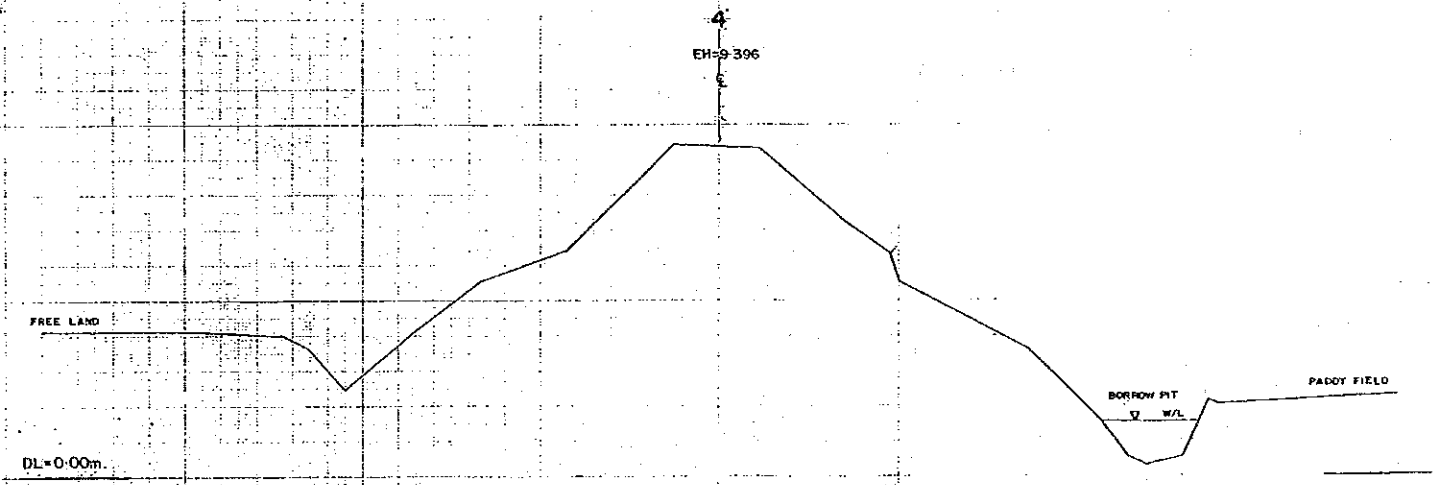
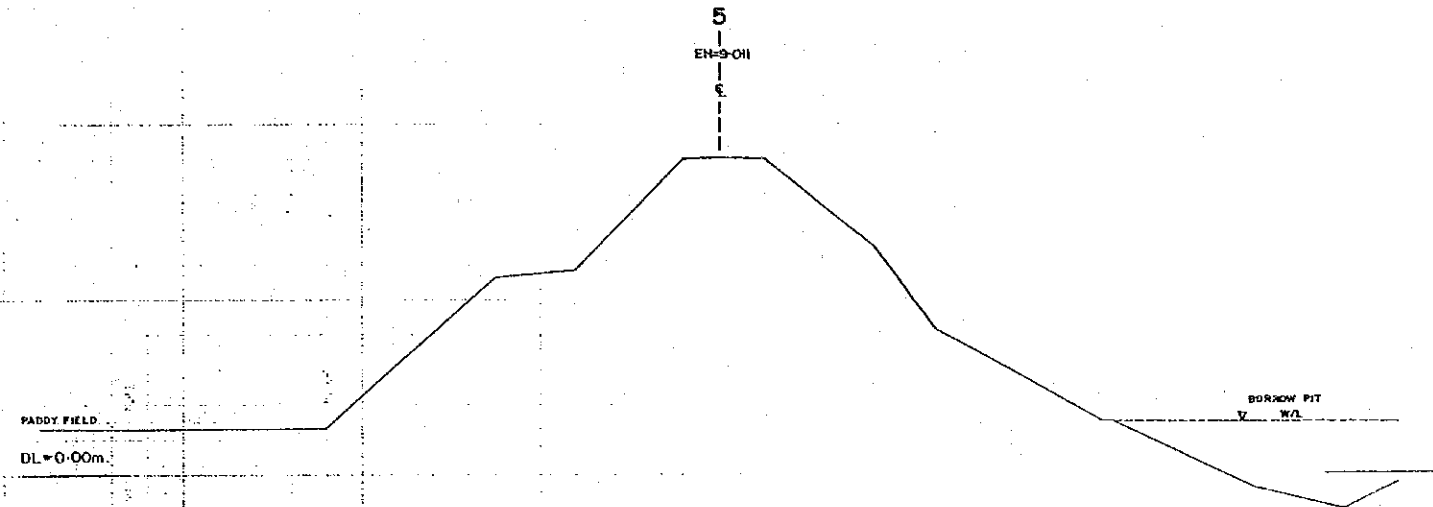
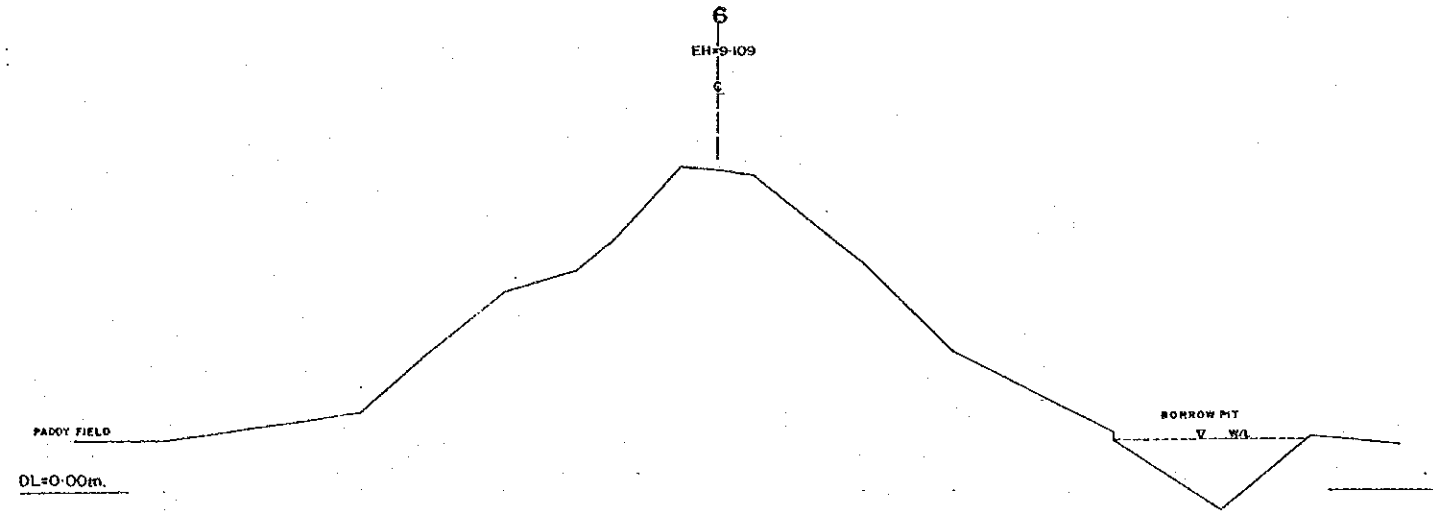
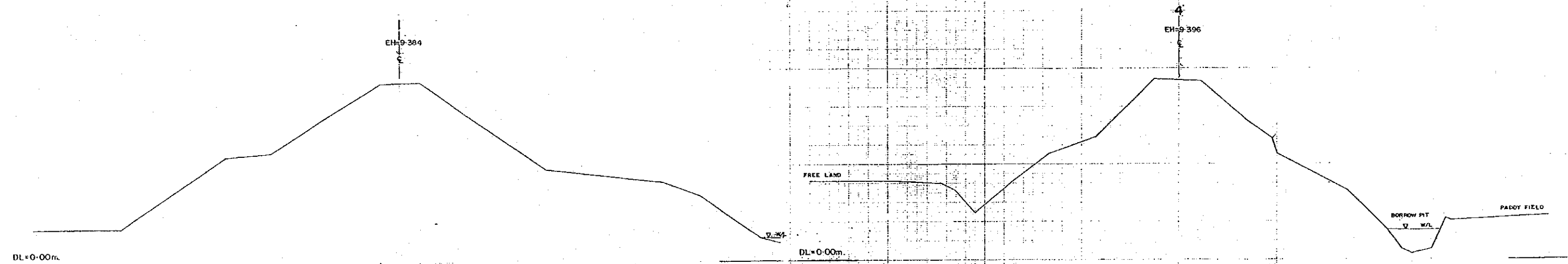
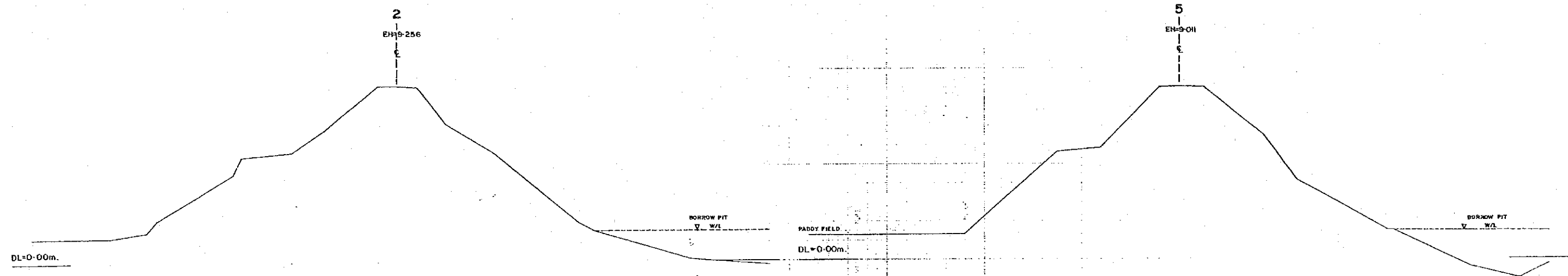
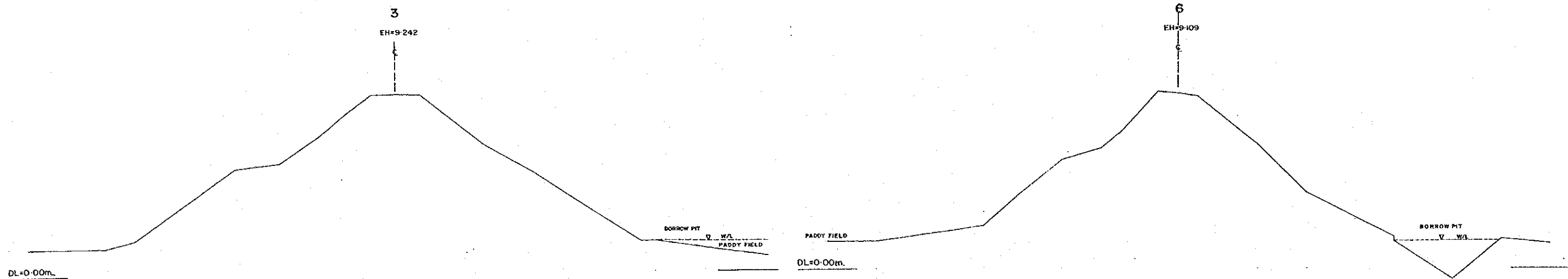
	PROPOSED		EXISTING		DISTANCE (M)	ACCUMULATED DISTANCE(M)	STATION NO.
	TOP OF CONCRETE WALL	TOP OF EMBANKMENT	TOP OF CONCRETE WALL	TOP OF EMBANKMENT			
					0	0000	10
					10	0100	20
					20	0200	30
					30	0300	40
					40	0400	50
					50	0500	60
					60	0600	70
					70	0700	80
					80	0800	90
					90	0900	100
					100	1000	110
					110	1100	120
					120	1200	130
					130	1300	140
					140	1400	150
					150	1500	160
					160	1600	170
					170	1700	180
					180	1800	190
					190	1900	200

LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION ———  
 RIGHT ———  
 LEFT ———

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A  
 DHAKA METROPOLITAN AREA  
 EXISTING WEST EMBANKMENT (2)  
 LONG SECTION

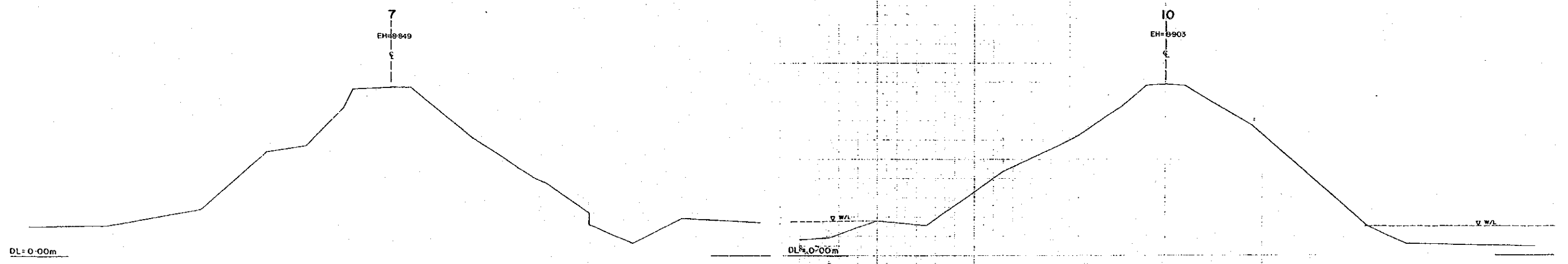
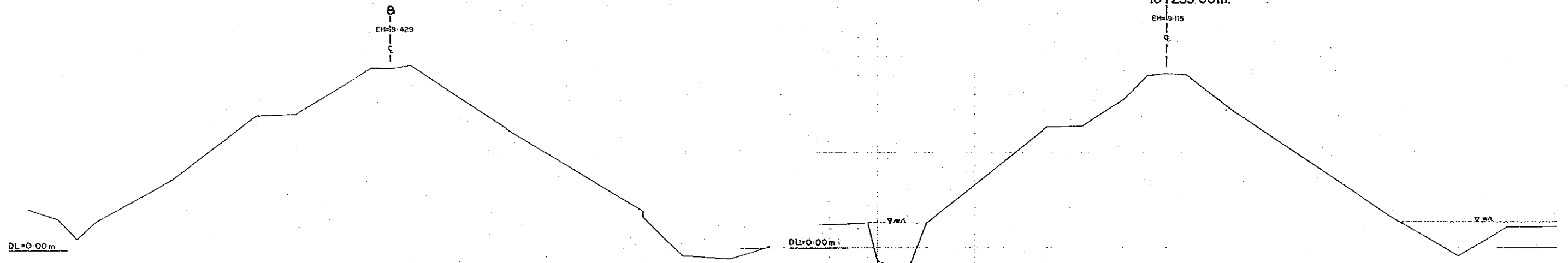
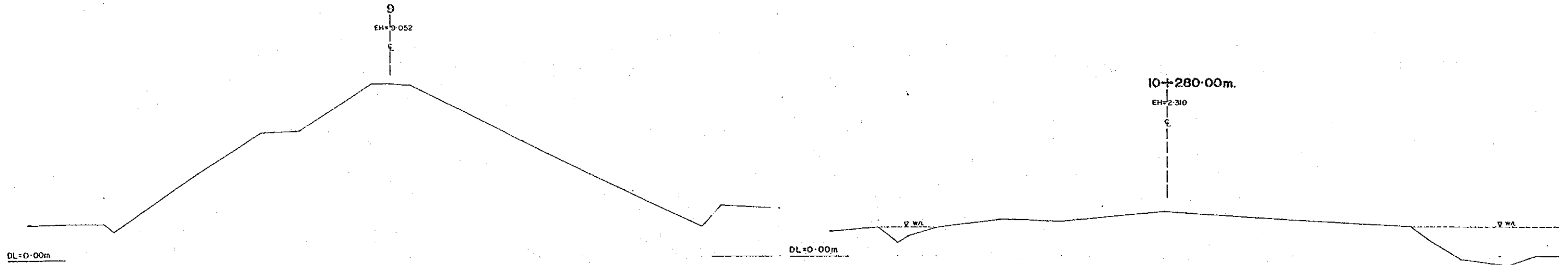
MIRPUR-SASANKHOLA	SCALE	N 1:3000
DWG NO. EEW(2)/L-4	DATE	JUNE, 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

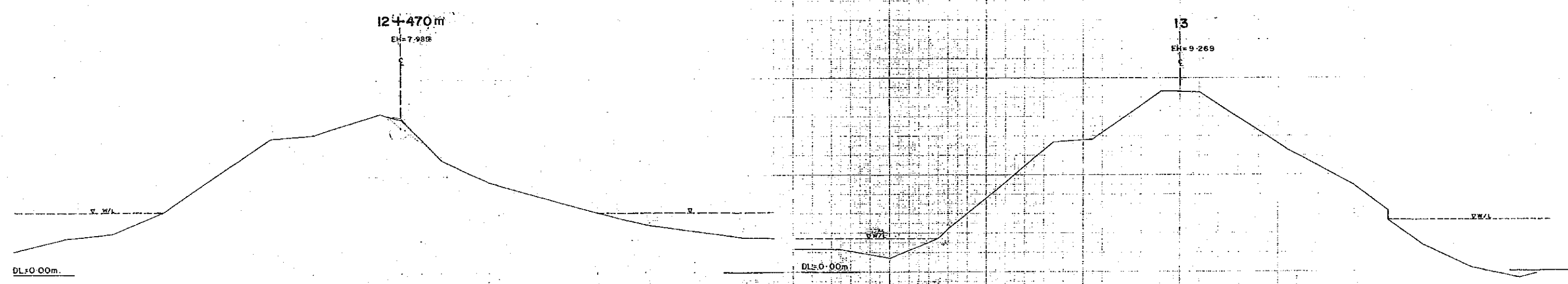
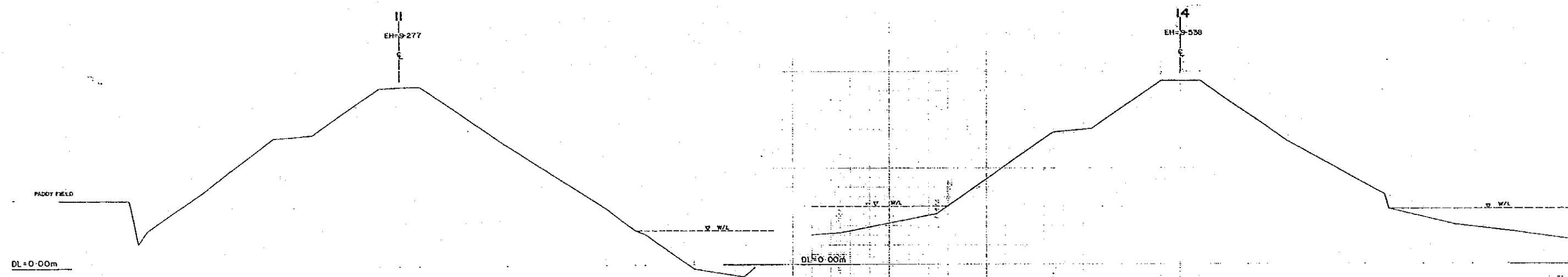
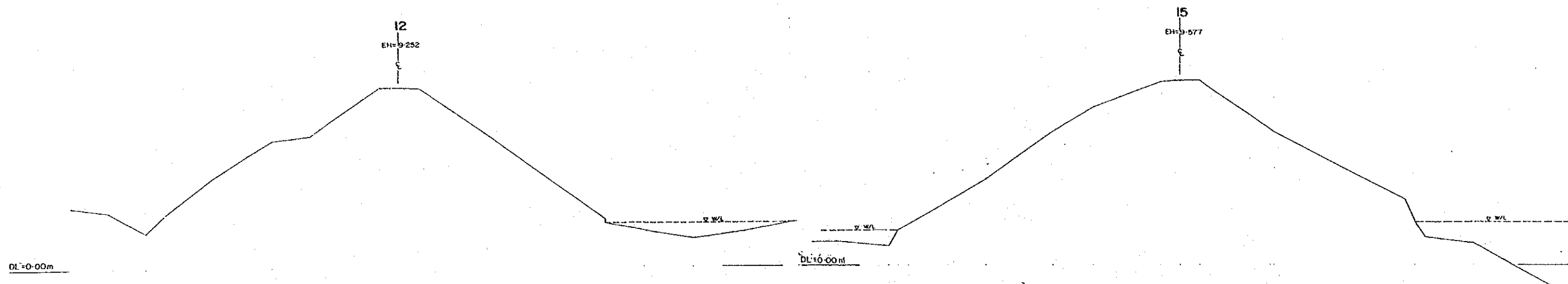


GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (2)			
CROSS-SECTION			
MIRPUR - SASANKHOBA	SCALE	H=1:200	V=1:100
DWG. NO. EEW(2)/C-1	DATE	JUNE, 1981	
JAPAN INTERNATIONAL CO OPERATION AGENCY			

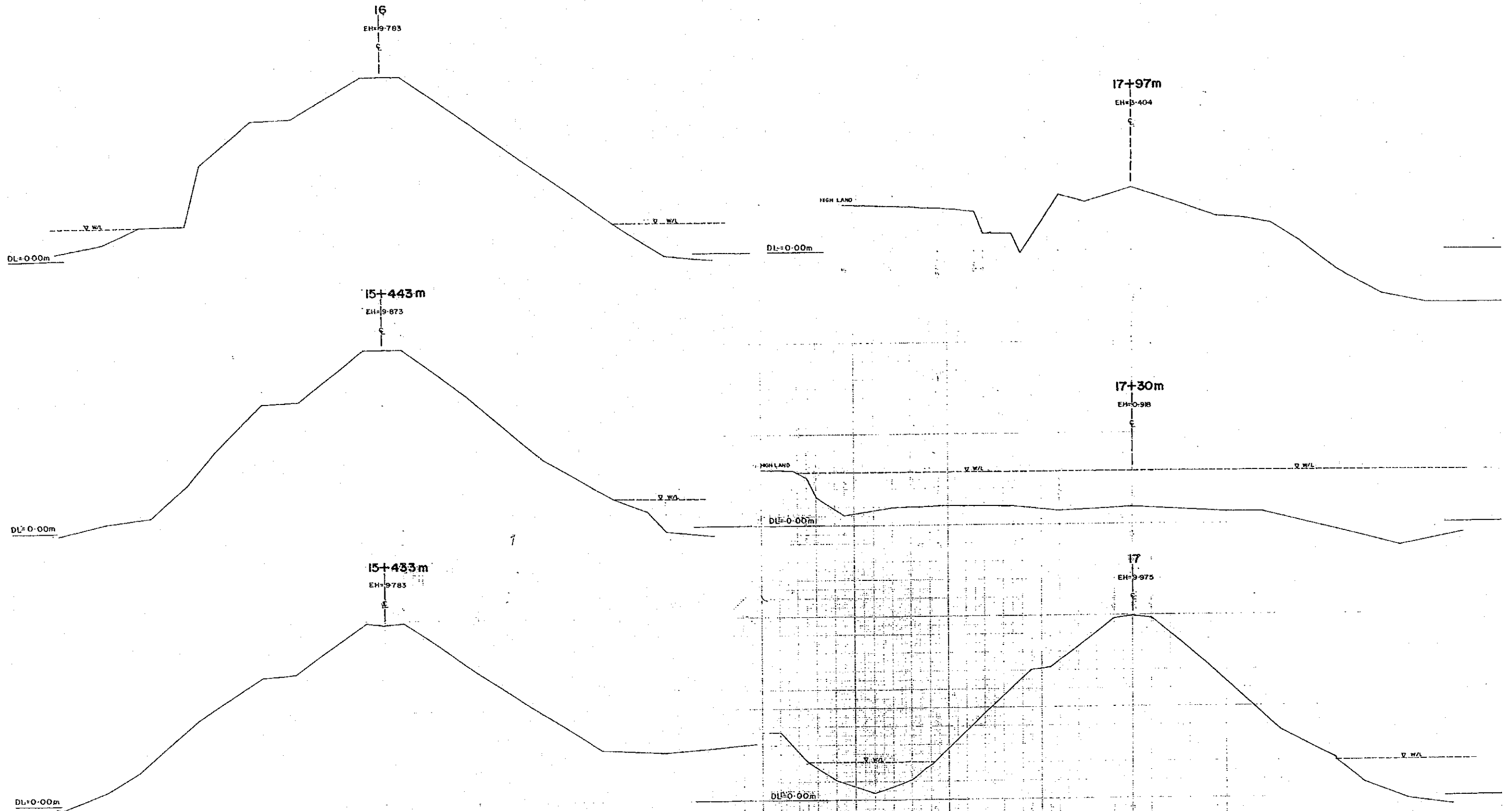




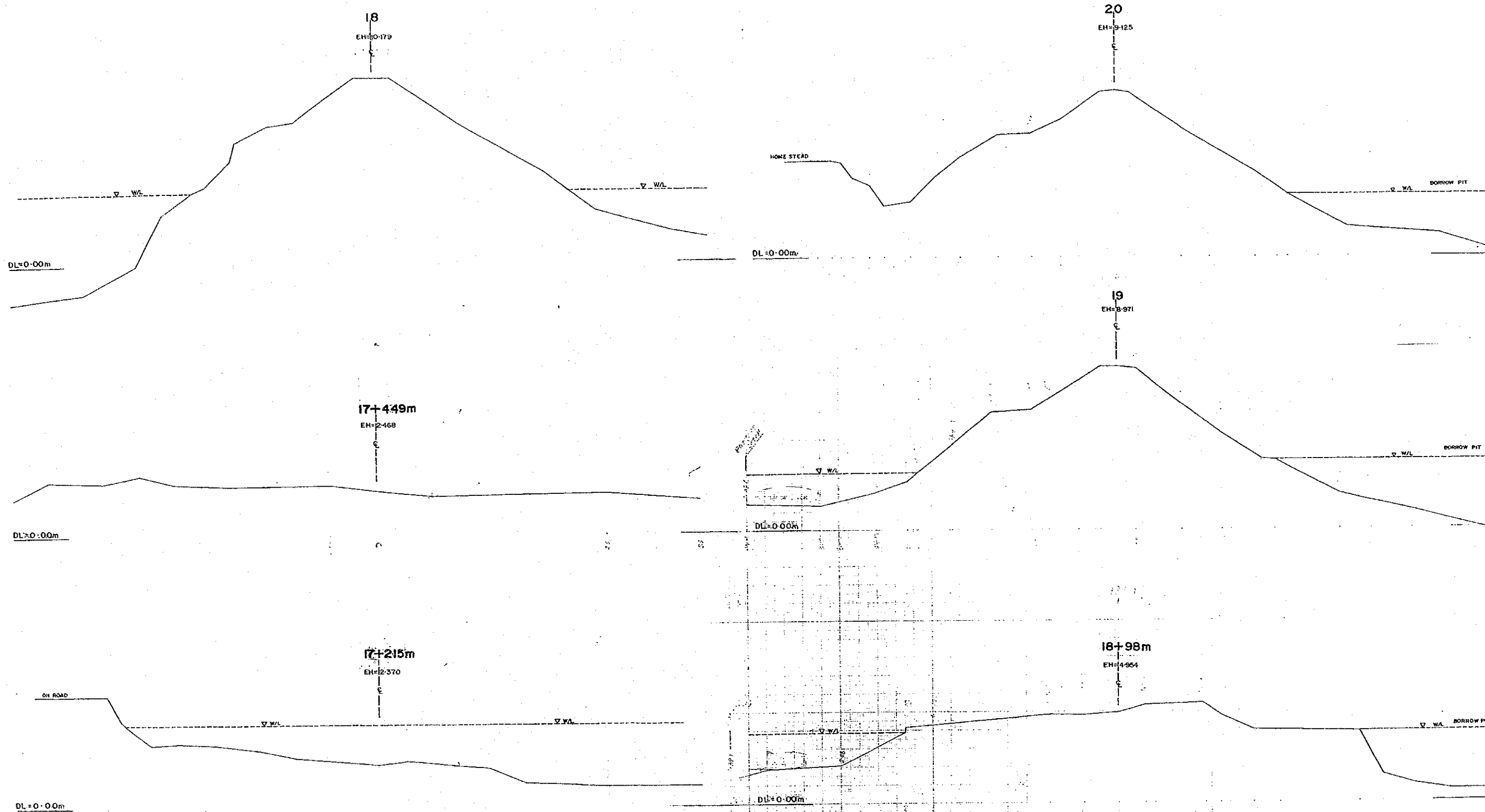
GREATER DHAKA PROTECTION PROJECT		
(STUDY IN DHAKA METROPOLITAN AREA)		
BANGLADESH FLOOD ACTION PLAN NO. BA		
DHAKA METROPOLITAN AREA		
EXISTING WEST EMBANKMENT (2)		
CROSS-SECTION		
MIRPUR + SASANKHOLA	SCALE	H=1:200 V=1:100
DWG. NO. JEEW (2)/C-2	DATE	JUNE, 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY		



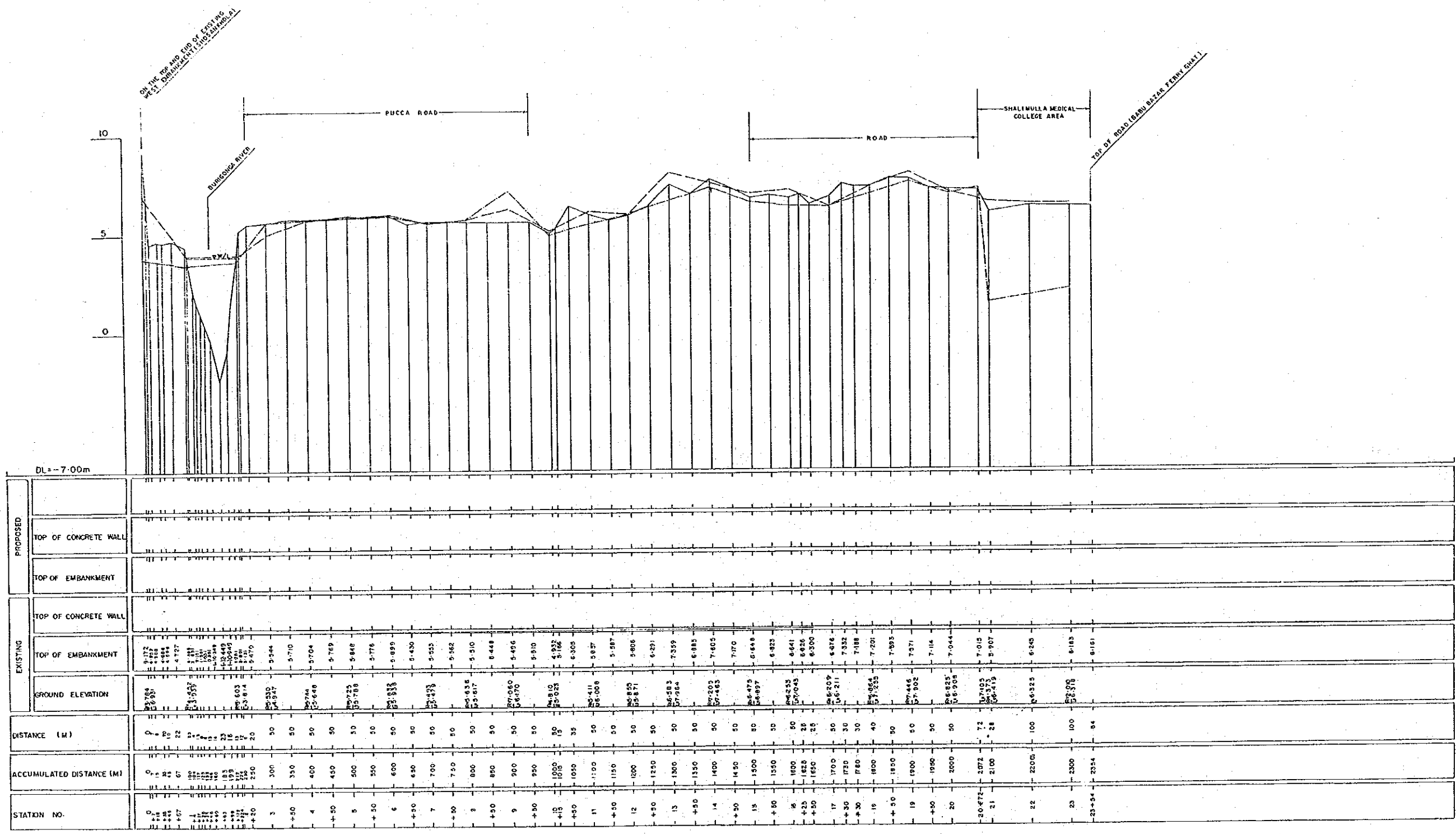
GREATER-DHAKA PROTECTION PROJECT			
(STUDY - IN-DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (2)			
CROSS-SECTION			
MIRPUR-SASANKHOLA	SCALE	H: 1:200	V: 1:100
DWG NO	EEW(2)/C-3	DATE	JUNE, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (2)			
CROSS SECTION			
MIRPUR - SASANKHOLA	SCALE	H=1:200	V=1:100
DWG. NO. EEM/2/C-4	DATE	JUNE, 1991	
JAPAN INTERNATIONAL CO OPERATION AGENCY			



GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.BA.			
DHAKA METROPOLITAN AREA			
EXISTING WEST EMBANKMENT (2)			
CROSS SECTION			
MIRPUR - SASANKHOLA	SCALE	H: 1:200	V: 1:100
DWG NO. EEW(2)/C-5	DATE	JUNE, 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			



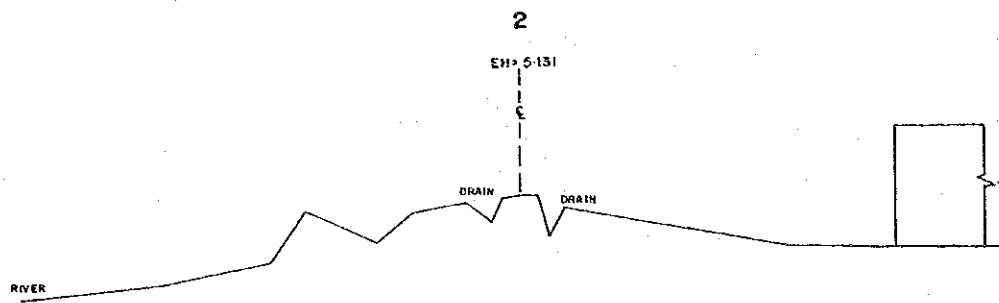
STATION NO.	ACCUMULATED DISTANCE (M)	DISTANCE (M)	GROUND ELEVATION	EXISTING		PROPOSED	
				TOP OF EMBANKMENT	TOP OF CONCRETE WALL	TOP OF EMBANKMENT	TOP OF CONCRETE WALL
0	0	0	6.177				
1	15	15	6.177				
2	30	15	6.177				
3	45	15	6.177				
4	60	15	6.177				
5	75	15	6.177				
6	90	15	6.177				
7	105	15	6.177				
8	120	15	6.177				
9	135	15	6.177				
10	150	15	6.177				
11	165	15	6.177				
12	180	15	6.177				
13	195	15	6.177				
14	210	15	6.177				
15	225	15	6.177				
16	240	15	6.177				
17	255	15	6.177				
18	270	15	6.177				
19	285	15	6.177				
20	300	15	6.177				
21	315	15	6.177				
22	330	15	6.177				
23	345	15	6.177				
24	360	15	6.177				
25	375	15	6.177				
26	390	15	6.177				
27	405	15	6.177				
28	420	15	6.177				
29	435	15	6.177				
30	450	15	6.177				
31	465	15	6.177				
32	480	15	6.177				
33	495	15	6.177				
34	510	15	6.177				
35	525	15	6.177				
36	540	15	6.177				
37	555	15	6.177				
38	570	15	6.177				
39	585	15	6.177				
40	600	15	6.177				
41	615	15	6.177				
42	630	15	6.177				
43	645	15	6.177				
44	660	15	6.177				
45	675	15	6.177				
46	690	15	6.177				
47	705	15	6.177				
48	720	15	6.177				
49	735	15	6.177				
50	750	15	6.177				
51	765	15	6.177				
52	780	15	6.177				
53	795	15	6.177				
54	810	15	6.177				
55	825	15	6.177				
56	840	15	6.177				
57	855	15	6.177				
58	870	15	6.177				
59	885	15	6.177				
60	900	15	6.177				
61	915	15	6.177				
62	930	15	6.177				
63	945	15	6.177				
64	960	15	6.177				
65	975	15	6.177				
66	990	15	6.177				
67	1005	15	6.177				
68	1020	15	6.177				
69	1035	15	6.177				
70	1050	15	6.177				
71	1065	15	6.177				
72	1080	15	6.177				
73	1095	15	6.177				
74	1110	15	6.177				
75	1125	15	6.177				
76	1140	15	6.177				
77	1155	15	6.177				
78	1170	15	6.177				
79	1185	15	6.177				
80	1200	15	6.177				
81	1215	15	6.177				
82	1230	15	6.177				
83	1245	15	6.177				
84	1260	15	6.177				
85	1275	15	6.177				
86	1290	15	6.177				
87	1305	15	6.177				
88	1320	15	6.177				
89	1335	15	6.177				
90	1350	15	6.177				
91	1365	15	6.177				
92	1380	15	6.177				
93	1395	15	6.177				
94	1410	15	6.177				
95	1425	15	6.177				
96	1440	15	6.177				
97	1455	15	6.177				
98	1470	15	6.177				
99	1485	15	6.177				
100	1500	15	6.177				
101	1515	15	6.177				
102	1530	15	6.177				
103	1545	15	6.177				
104	1560	15	6.177				
105	1575	15	6.177				
106	1590	15	6.177				
107	1605	15	6.177				
108	1620	15	6.177				
109	1635	15	6.177				
110	1650	15	6.177				
111	1665	15	6.177				
112	1680	15	6.177				
113	1695	15	6.177				
114	1710	15	6.177				
115	1725	15	6.177				
116	1740	15	6.177				
117	1755	15	6.177				
118	1770	15	6.177				
119	1785	15	6.177				
120	1800	15	6.177				
121	1815	15	6.177				
122	1830	15	6.177				
123	1845	15	6.177				
124	1860	15	6.177				
125	1875	15	6.177				
126	1890	15	6.177				
127	1905	15	6.177				
128	1920	15	6.177				
129	1935	15	6.177				
130	1950	15	6.177				
131	1965	15	6.177				
132	1980	15	6.177				
133	1995	15	6.177				
134	2010	15	6.177				
135	2025	15	6.177				
136	2040	15	6.177				
137	2055	15	6.177				
138	2070	15	6.177				
139	2085	15	6.177				
140	2100	15	6.177				
141	2115	15	6.177				
142	2130	15	6.177				
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144	2160	15	6.177				
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150	2250	15	6.177				
151	2265	15	6.177				
152	2280	15	6.177				
153	2295	15	6.177				
154	2310	15	6.177				
155	2325	15	6.177				
156	2340	15	6.177				
157	2354	15	6.177				

LEGEND  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION - - - -  
 RIGHT ———  
 LEFT - - - -

GREATER DHAKA PROTECTION PROJECT  
 (STUDY IN DHAKA METROPOLITAN AREA)  
 BANGLADESH FLOOD ACTION PLAN NO.8A  
 DHAKA METROPOLITAN AREA  
 PROPOSED WEST EMBANKMENT  
 LONG SECTION

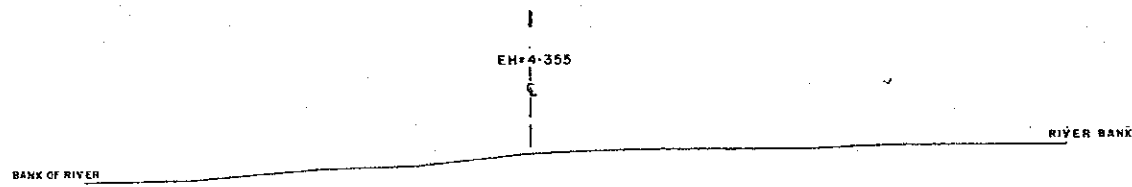
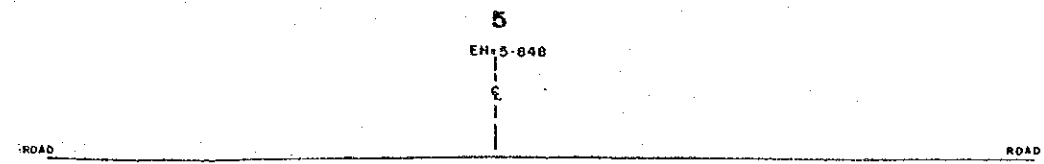
SHOSAN KHOLA - BABO BAZAR SCALE H=1:5000 V=1:100  
 DWG NO. PEW/L-1 DATE JUNE, 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



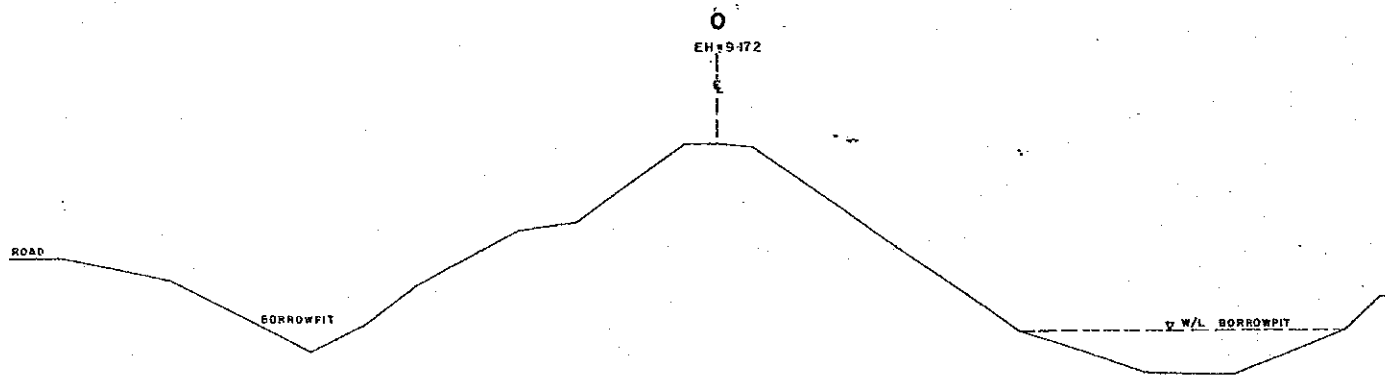
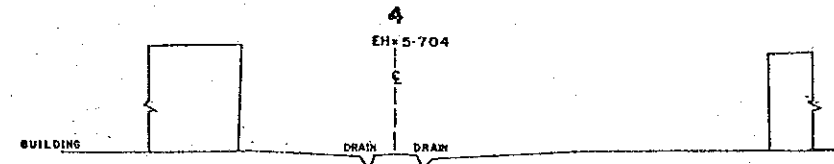
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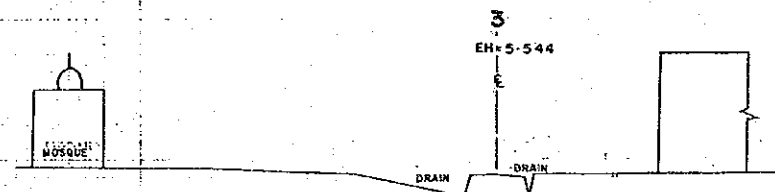
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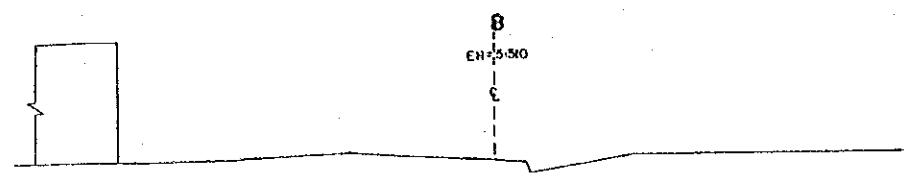


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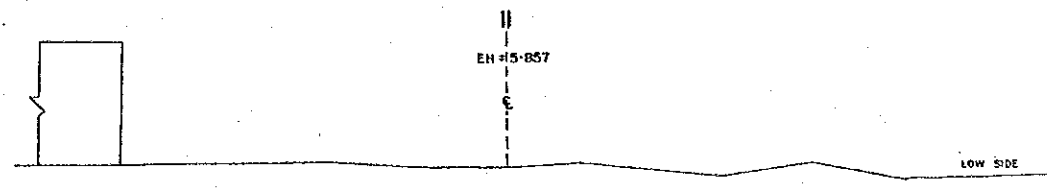
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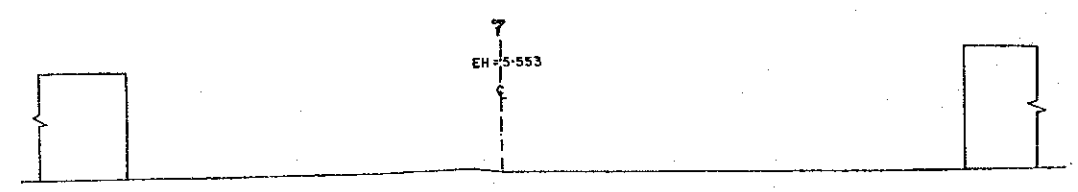
GREATER DHAKA PROTECTION PROJECT (STUDY IN- DHAKA METROPOLITAN AREA)		
BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA PROPOSED WEST EMBANKMENT CROSS SECTION		
SHOSANKHOLA - BABO BAZAR	SCALE	H= 1:200 V= 1:100
DWG NO. PEW/C-1	DATE	JUNE, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY		



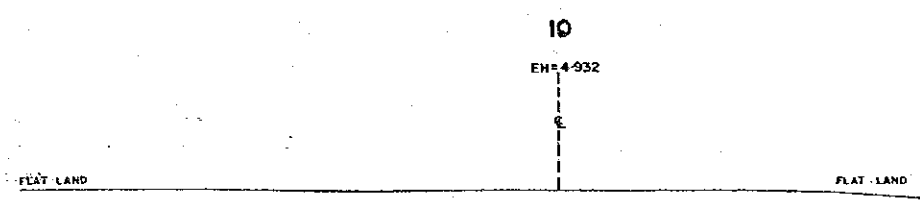
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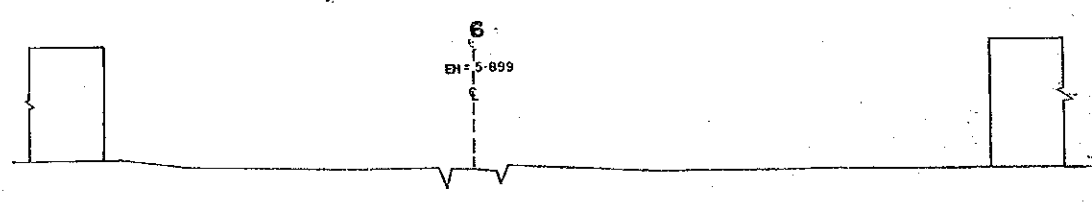
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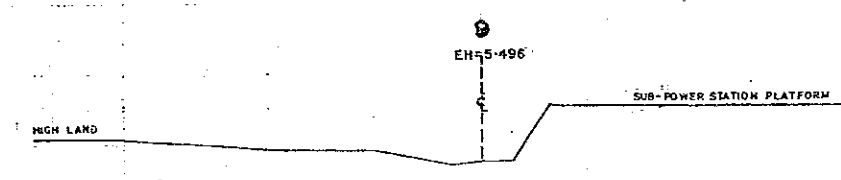
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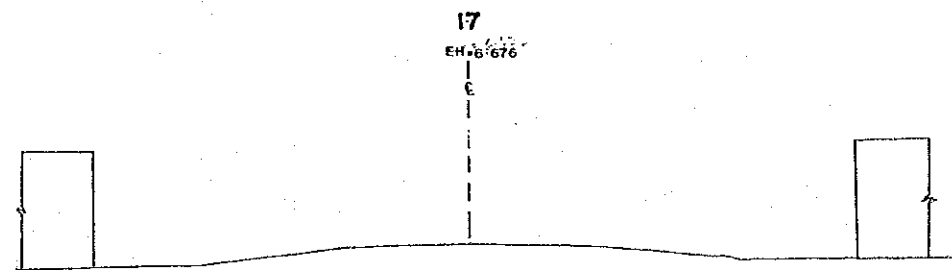
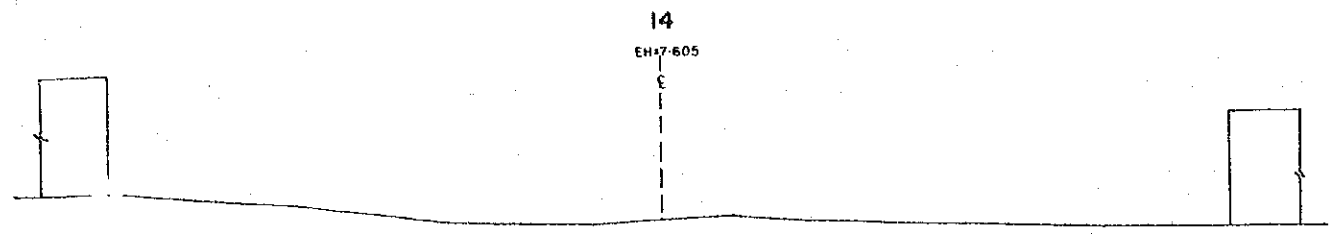


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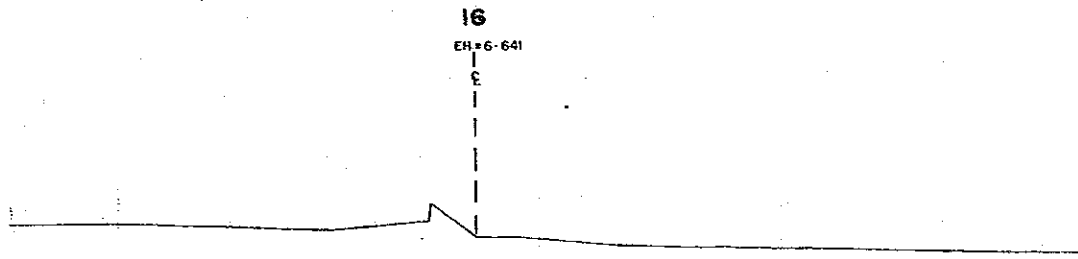
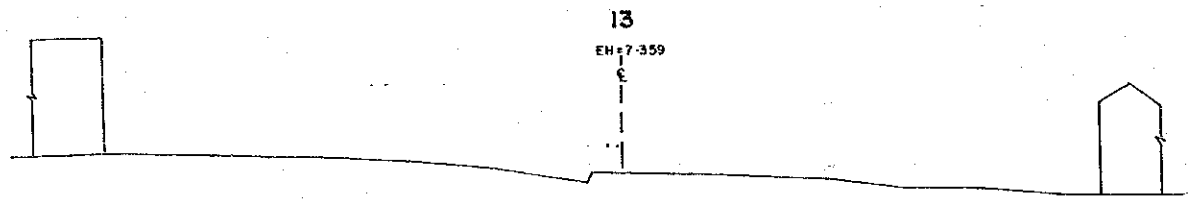
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GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
PROPOSED WEST EMBANKMENT			
CROSS SECTION			
SHOSANKHOLA -	SCALE	H=1:200	
BABO BAZAR		V=1:100	
DWG NO. PEW/C-2	DATE	JUNE 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			



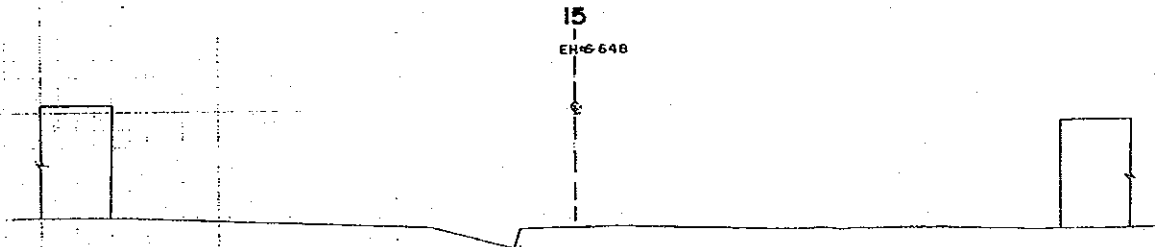
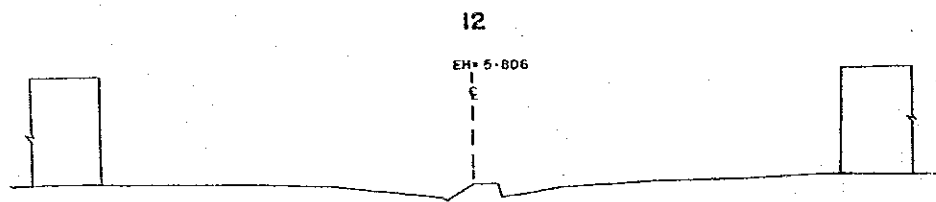
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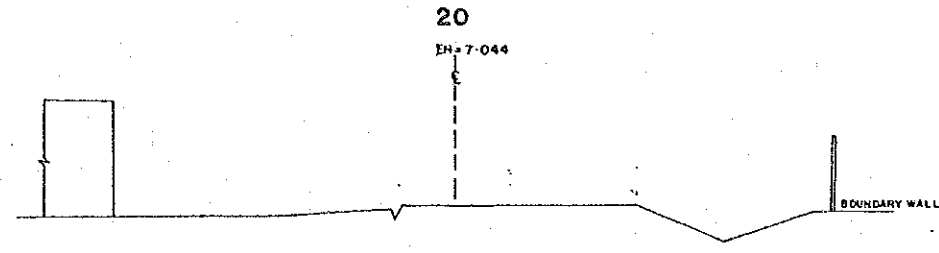


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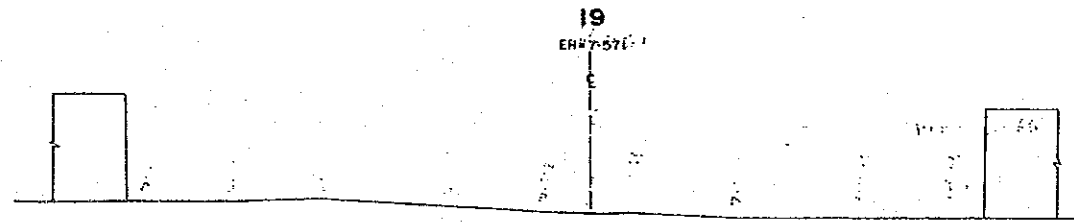
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GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA PROPOSED WEST EMBANKMENT CROSS SECTION			
FSHOSAN KHOLA - GABO BAZAR	SCALE	H=1:200 V=1:100	
DWG NO. PEW/C-3	DATE	JUNE, 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			





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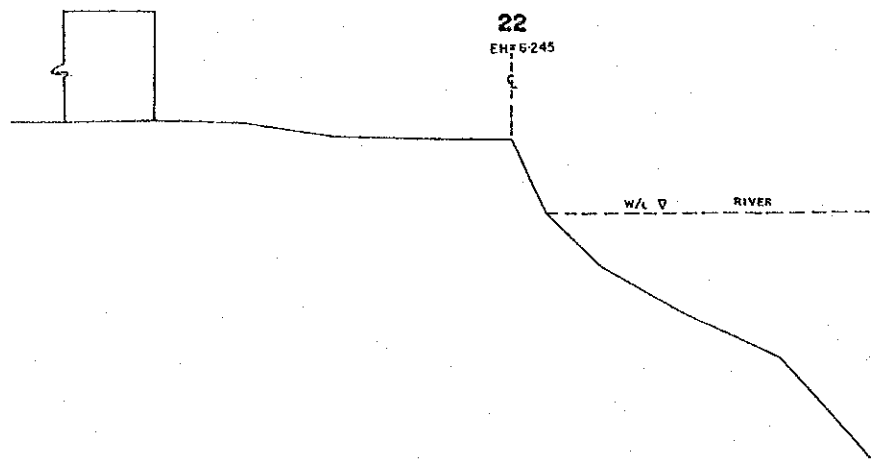


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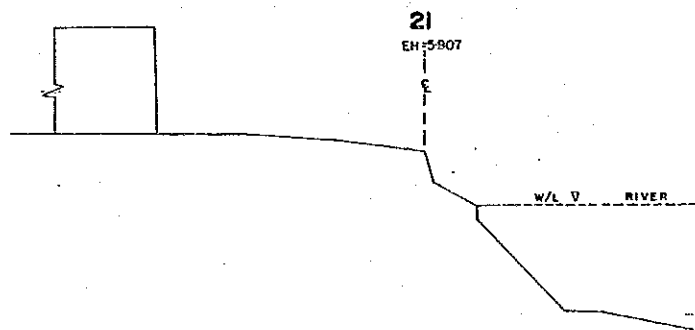


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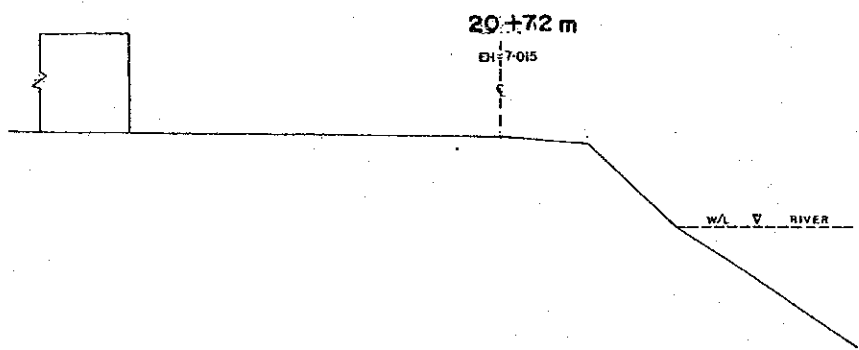
GREATER DHAKA PROTECTION PROJECT			
[STUDY IN DHAKA METROPOLITAN AREA]			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
PROPOSED WEST EMBANKMENT			
CROSS SECTION			
SHOSAN KHOLA -	SCALE	H=1:200	
BABO BAZAR		V=1:100	
DWG NO	DATE	JUNE, 1991	
FEW/C-4			
JAPAN INTERNATIONAL COOPERATION AGENCY			



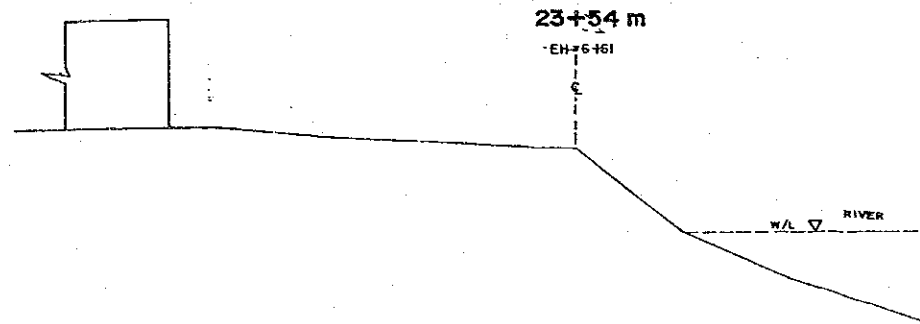
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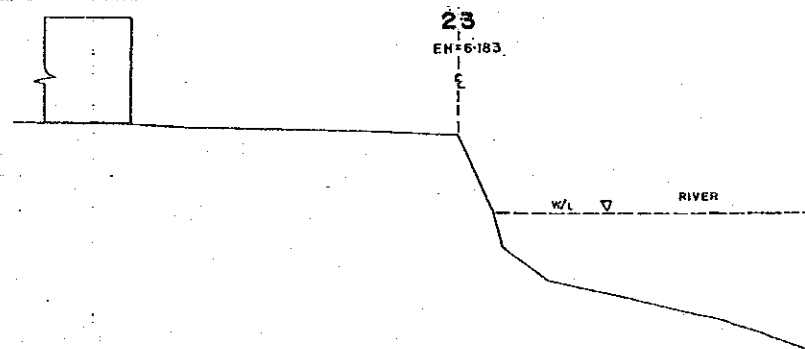
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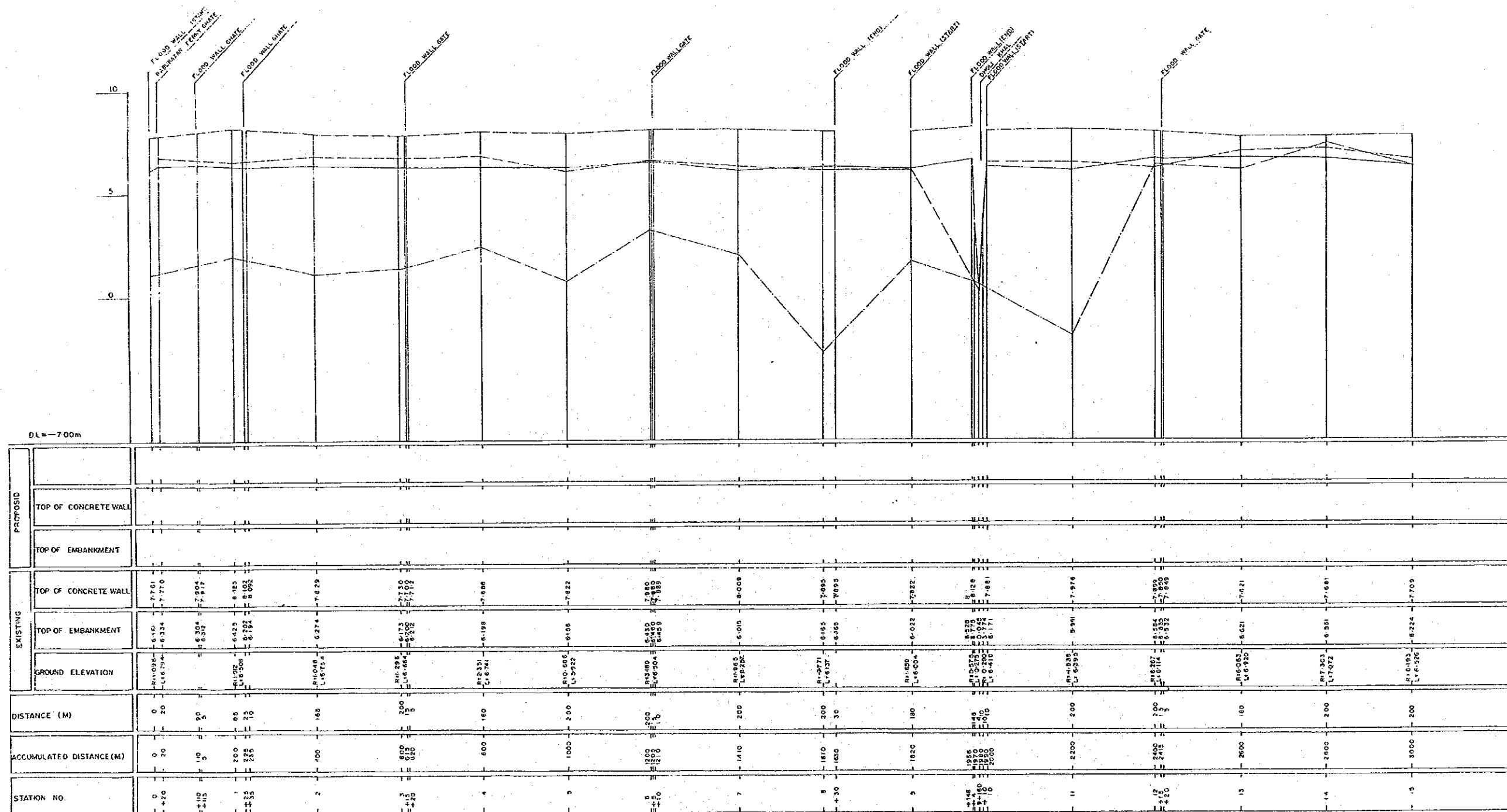


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GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
PROPOSED WEST EMBANKMENT			
CROSS SECTION			
SHOSANKHOLA -	SCALE	H=1:200	
BABOBAZAR		V=1:100	
DWG NO. PEW/C-5	DATE	JUNE, 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			



**LEGEND**

TOP OF EMBANKMENT ————

GROUND ELEVATION - - - - -

RIGHT ————

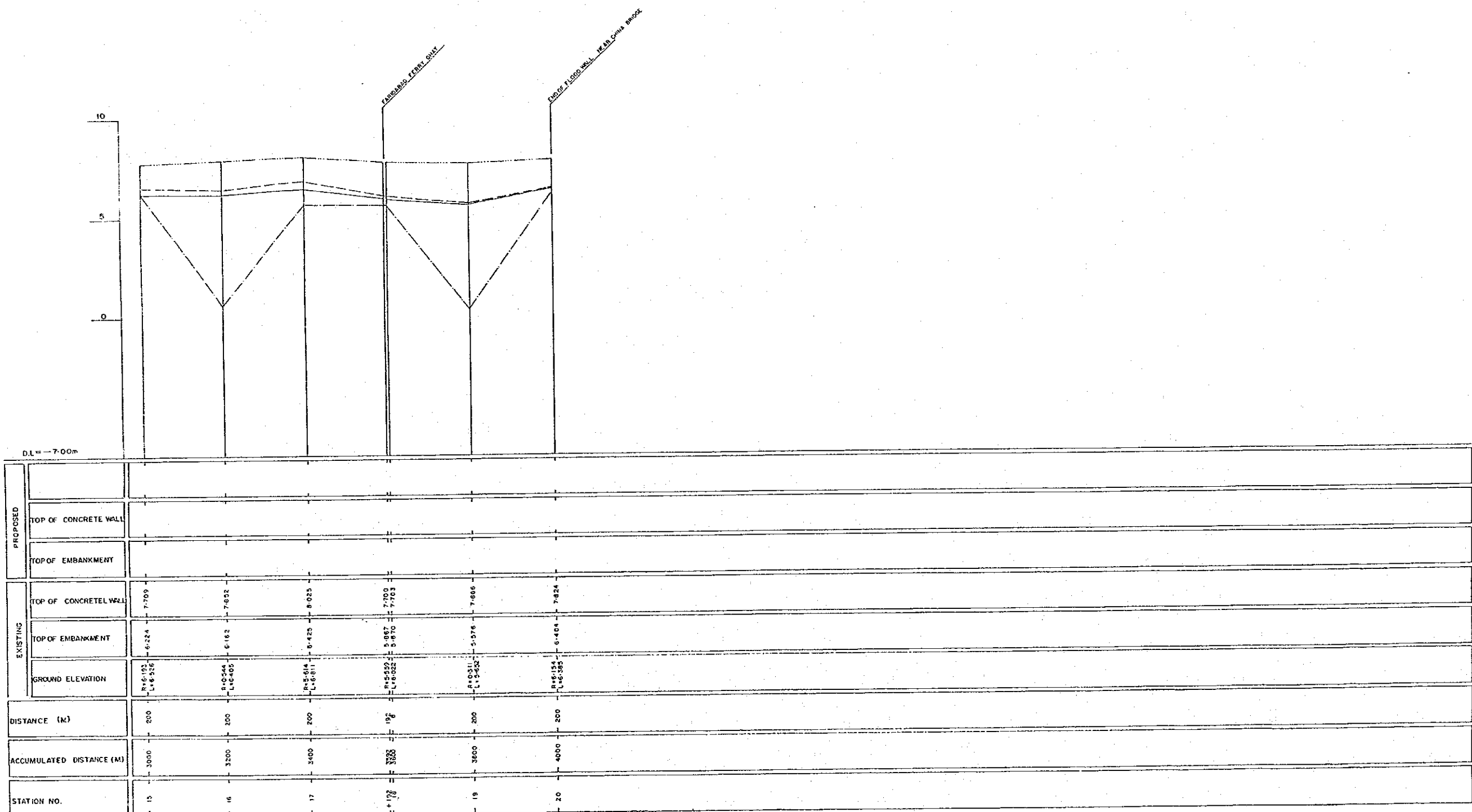
LEFT - - - - -

**GREATER DHAKA PROTECTION PROJECT**  
 (STUDY IN DHAKA METROPOLITAN AREA)  
**BANGLADESH FLOOD ACTION PLAN NO.8A**  
 DHAKA METROPOLITAN AREA  
**EXISTING FLOOD WALL**  
**LONG SECTION**

BABO BAZAR - CHINA BRIDGE SCALE H=1:5000 V=1:100

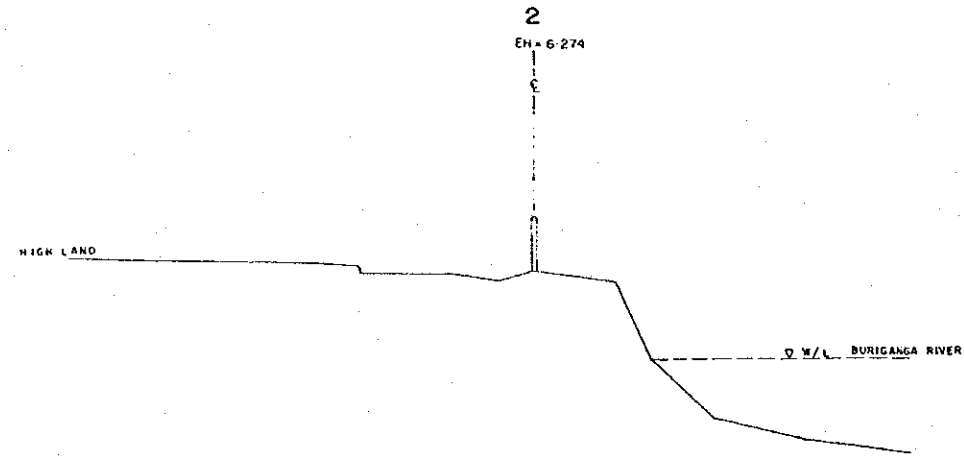
DWG NO. EF/L-1 DATE JUNE, 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

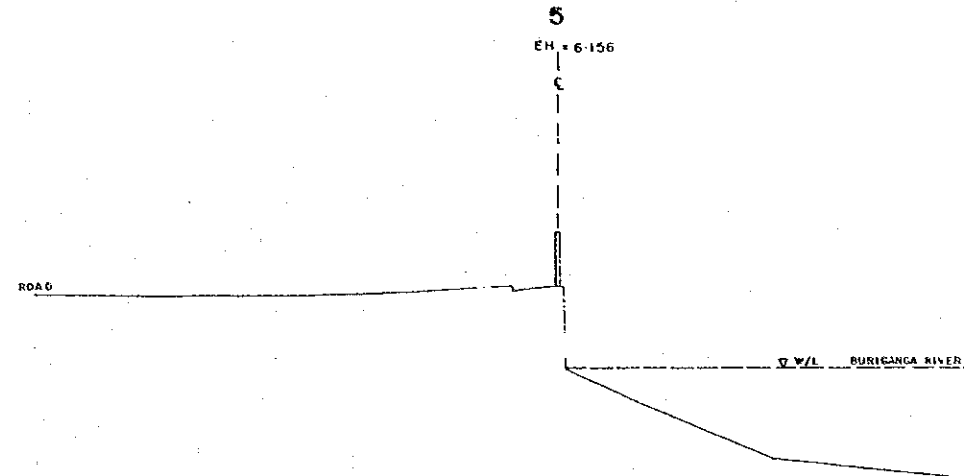


**LEGEND**  
 TOP OF EMBANKMENT ———  
 GROUND ELEVATION .....  
 RIGHT ———  
 LEFT ———

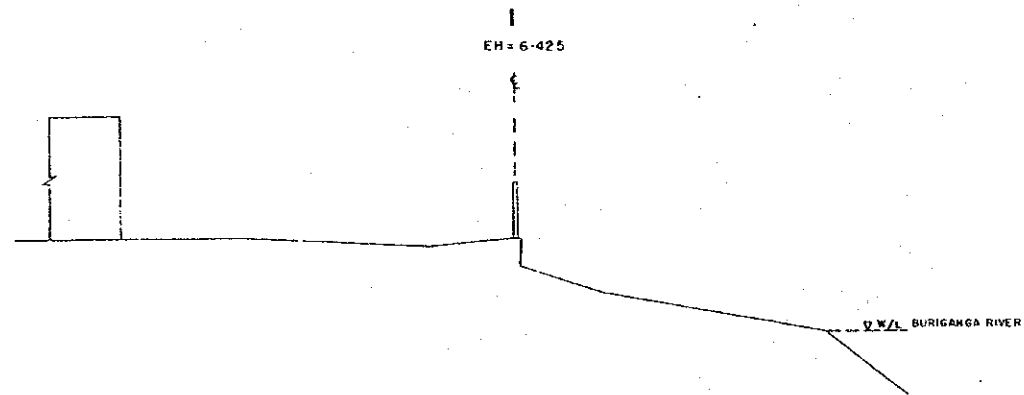
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA EXISTING FLOOD WALL LONG SECTION			
BABOBAZAR - CHINA BRIDGE	SCALE	H = 1:5000 V = 1:100	
DWG. NO. EF/L-2	DATE	JUNE, 1991	
JAPAN INTERNATIONAL CO OPERATION AGENCY			



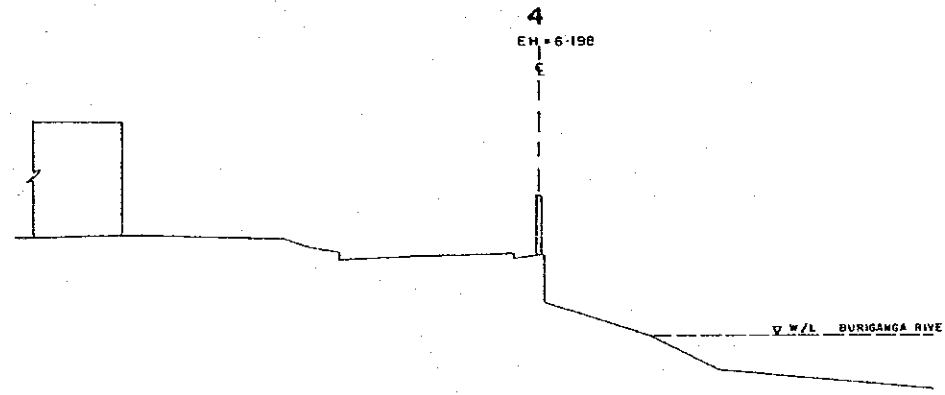
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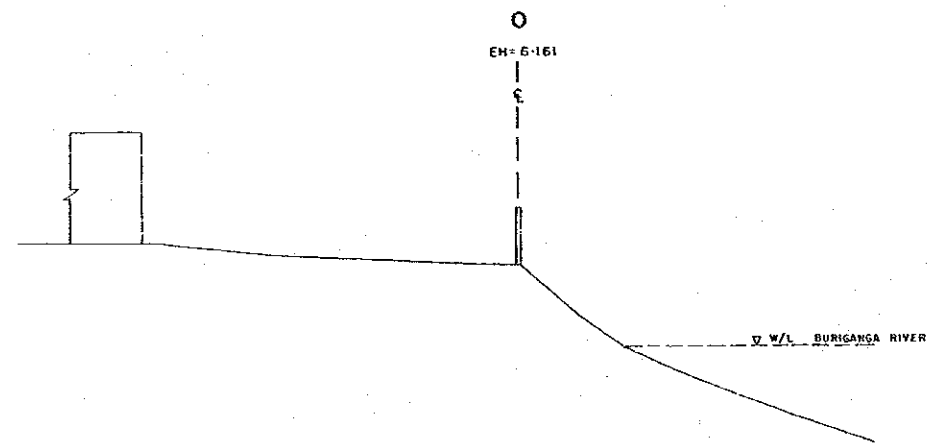
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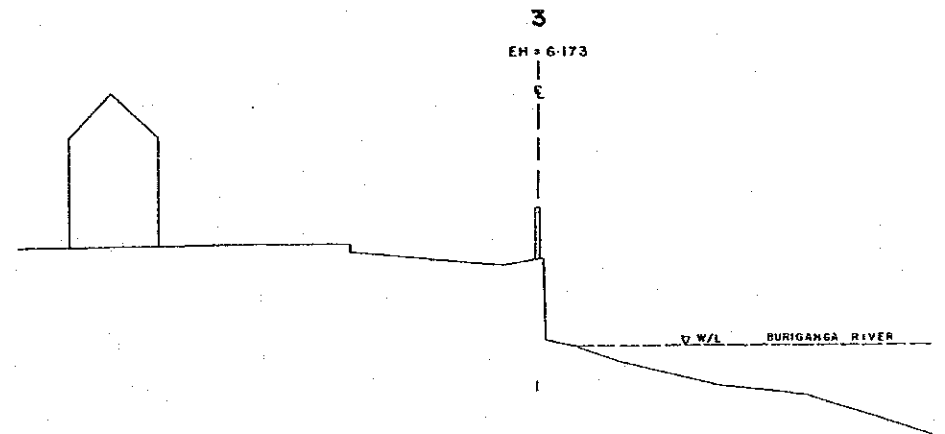
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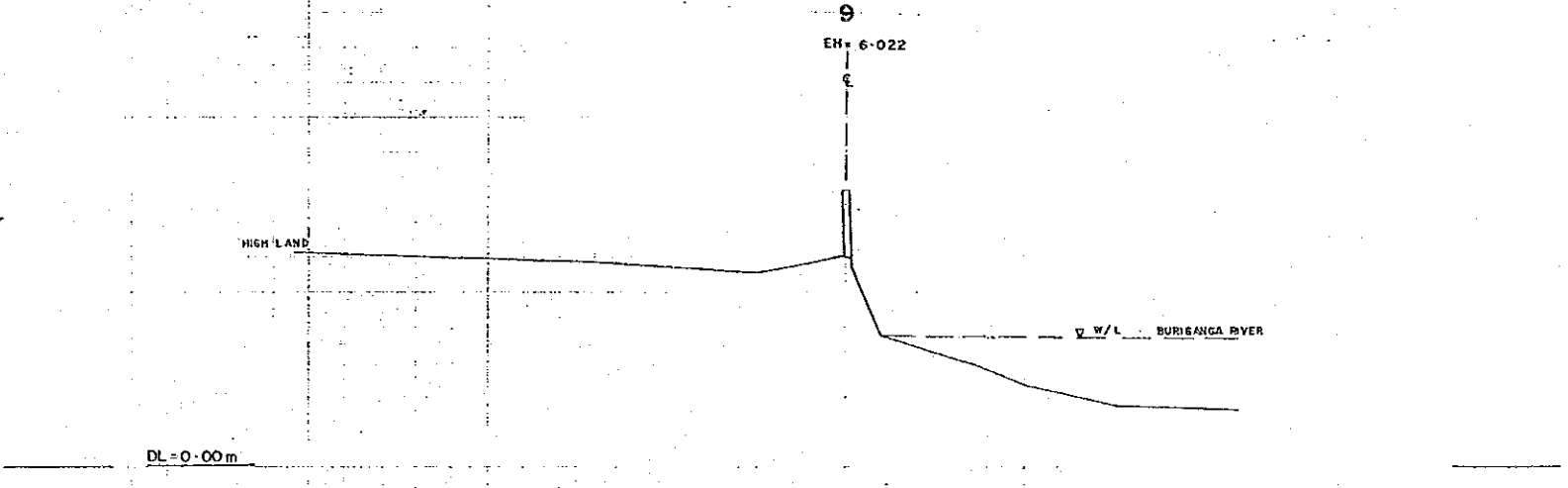
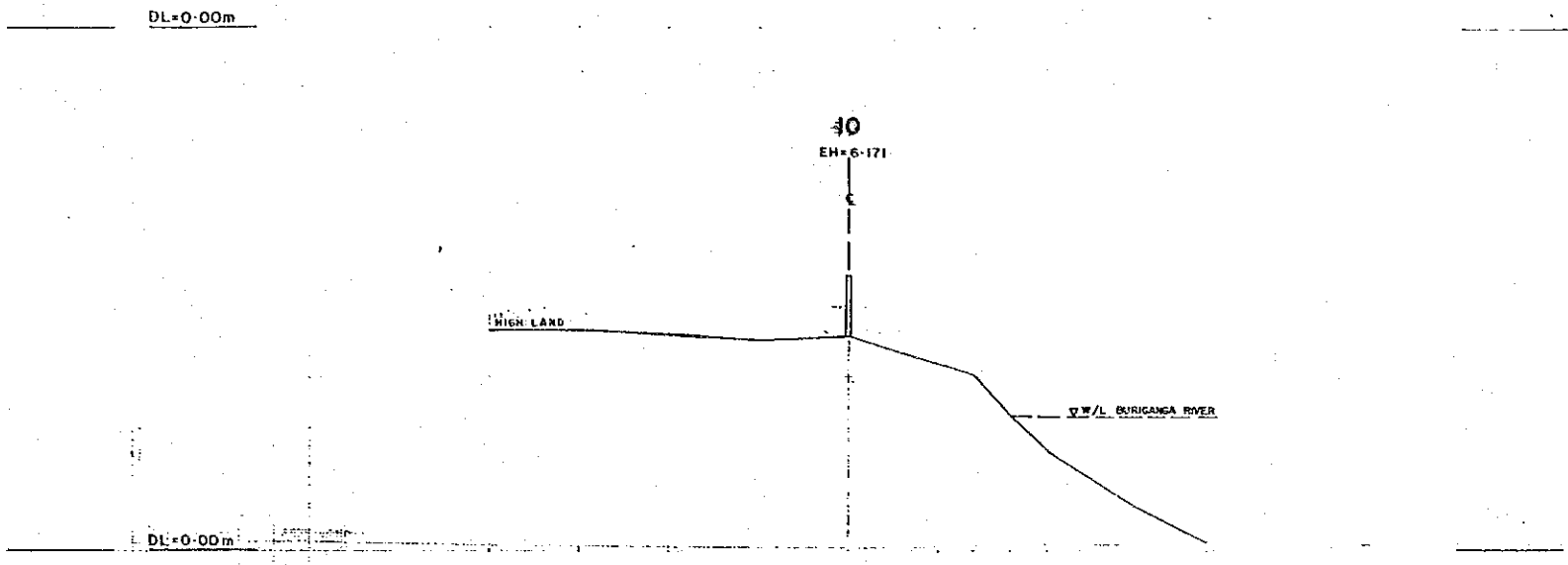
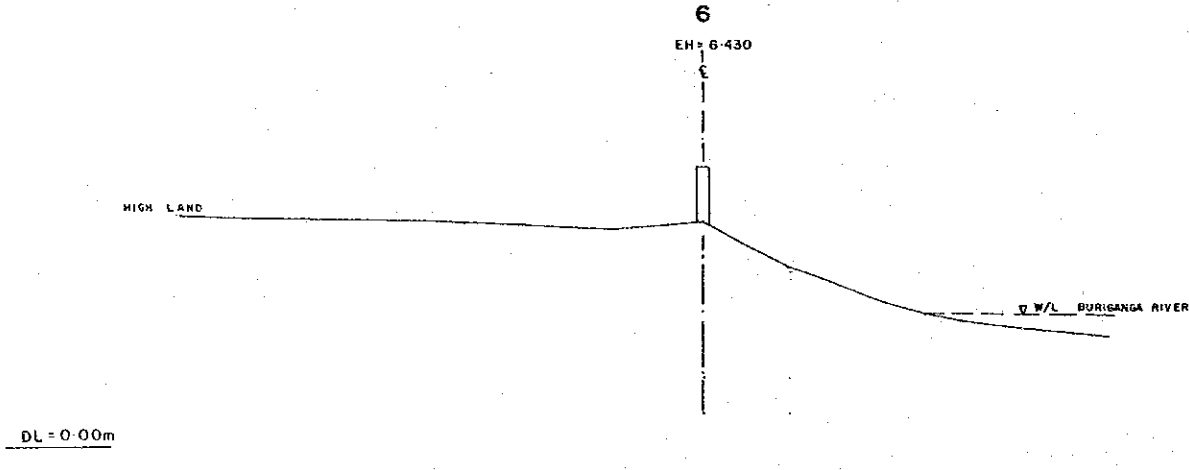
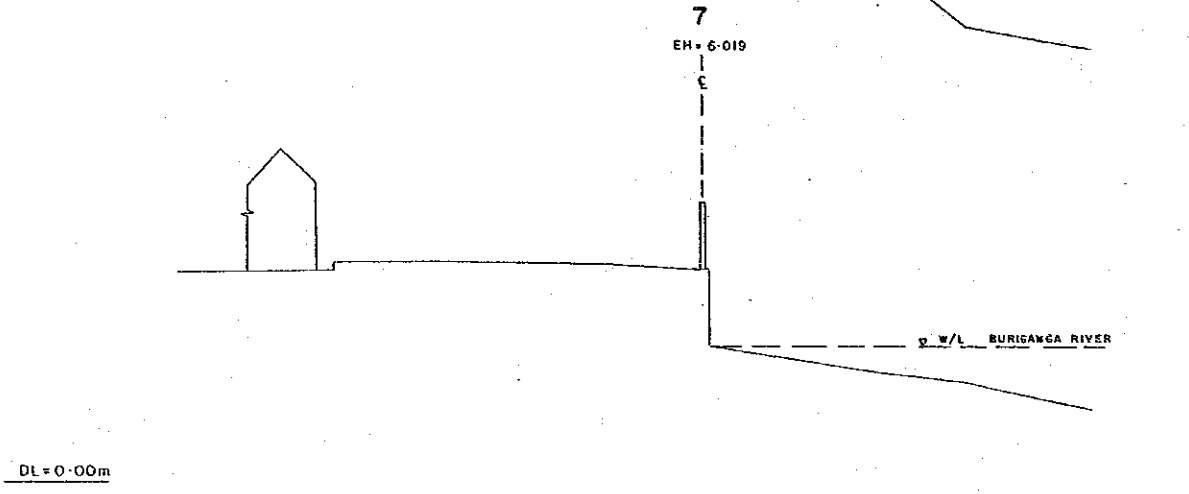
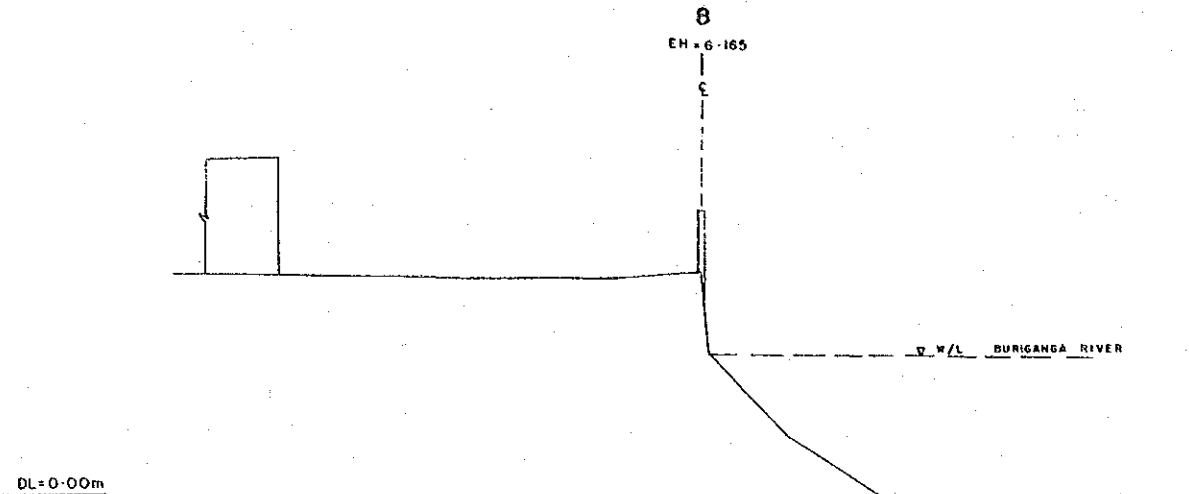


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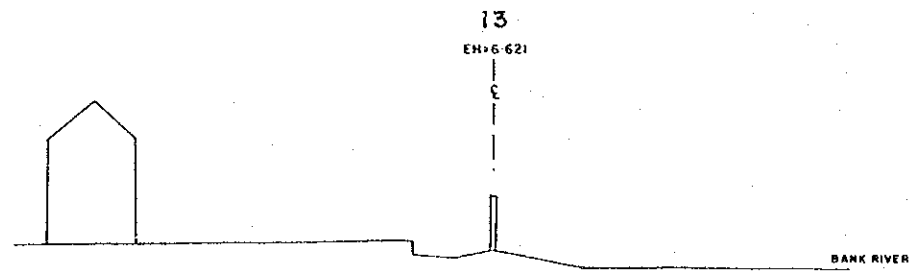


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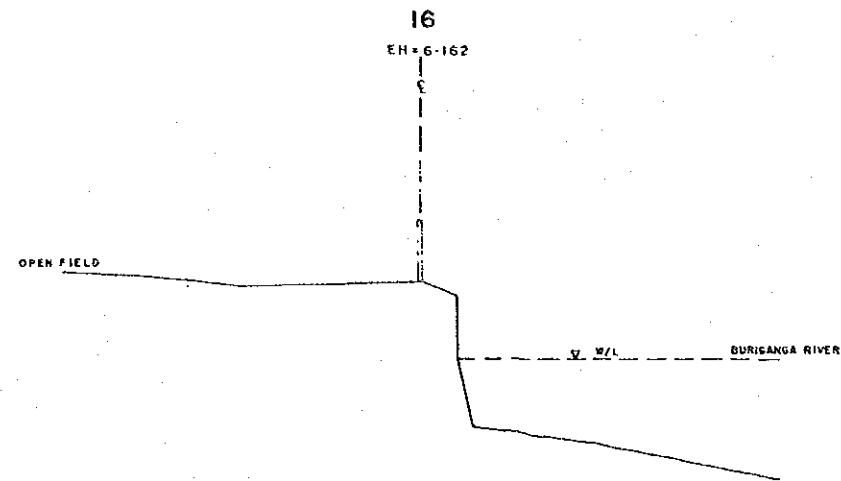
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA EXISTING FLOOD WALL CROSS SECTION			
BABO BAZAR - CHINA BRIDGE	SCALE	H=200 V=100	
DWG. NO. E-F/C-1	DATE	JUNE, 1991	
JAPAN INTERNATIONAL CO OPERATION AGENCY			



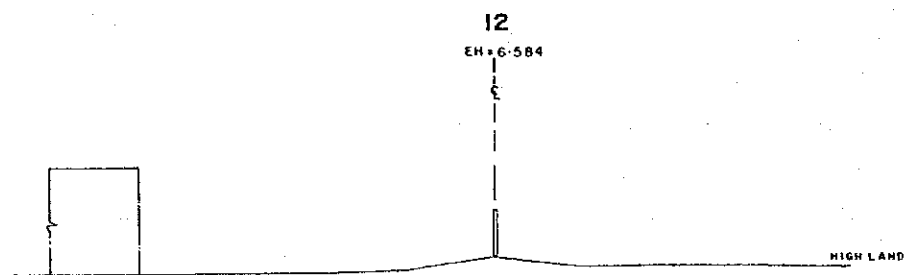
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING FLOOD WALL			
CROSS SECTION			
BABO BAZAR-CHINA-BRIDGE	SCALE	H=1:200	V=1:100
DWG NO. EF/C-2	DATE	JUNE, 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			



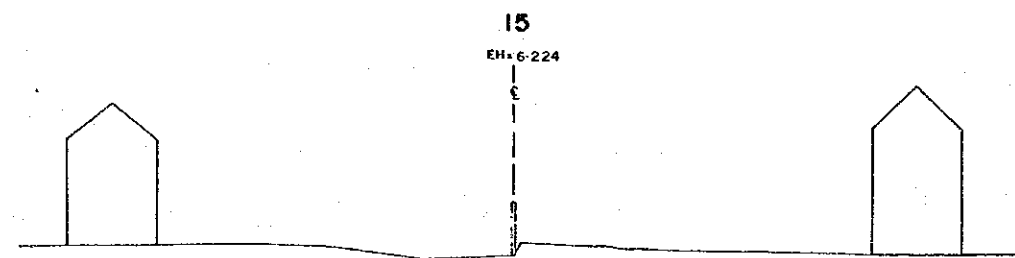
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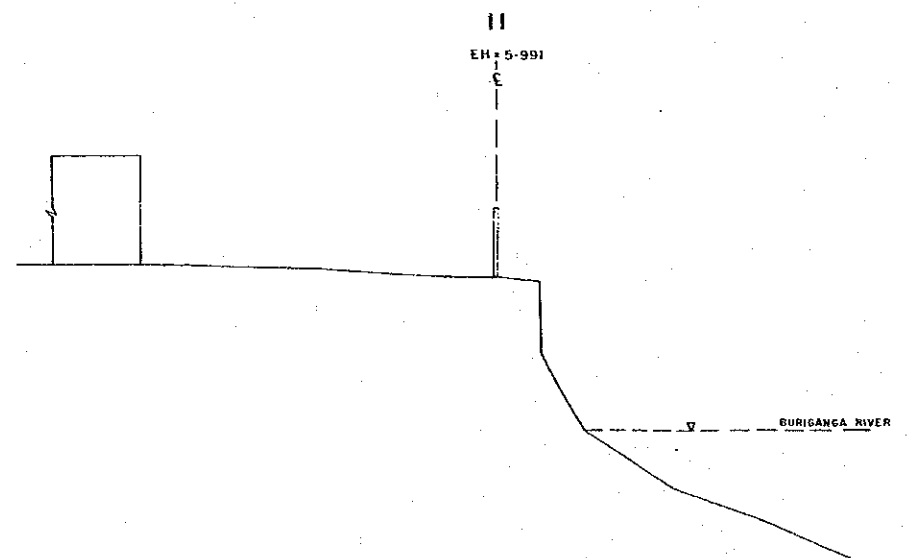
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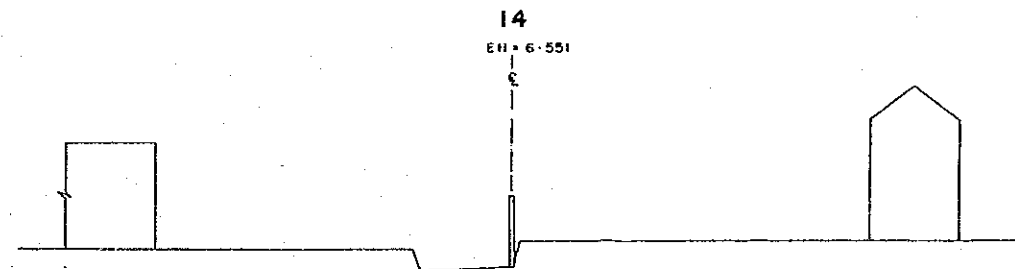
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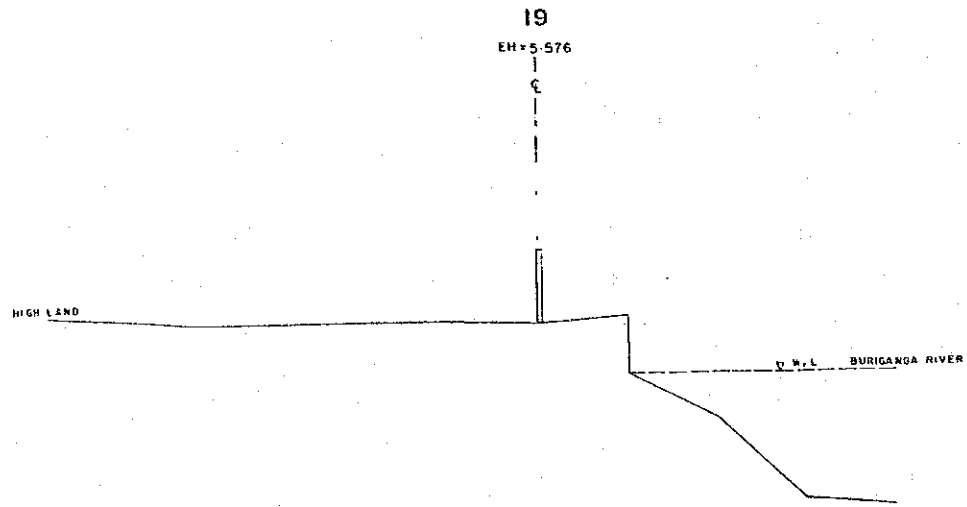


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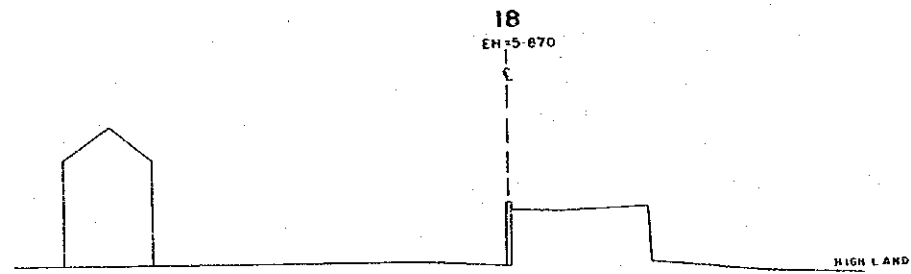


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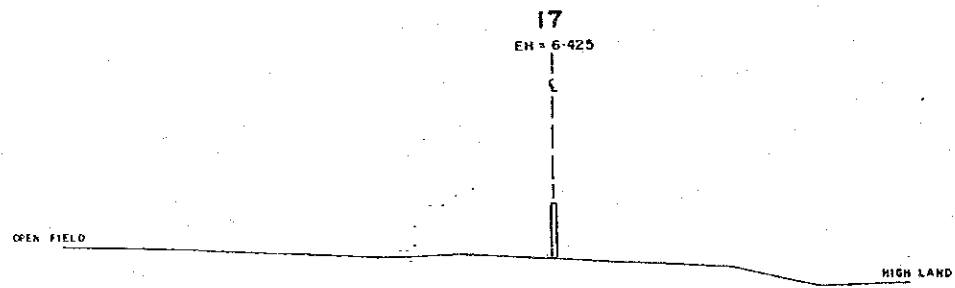
GREATER DHAKA PROTECTION PROJECT		
(STUDY IN DHAKA METROPOLITAN AREA)		
BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA		
EXISTING FLOOD WALL		
CROSS SECTION		
BABO BAZAR-CHINA BRIDGE	SCALE	H=1:200 V=1:100
DWG. NO. EF/C-3	DATE	JUNE, 89!
JAPAN INTERNATIONAL CO OPERATION AGENCY		



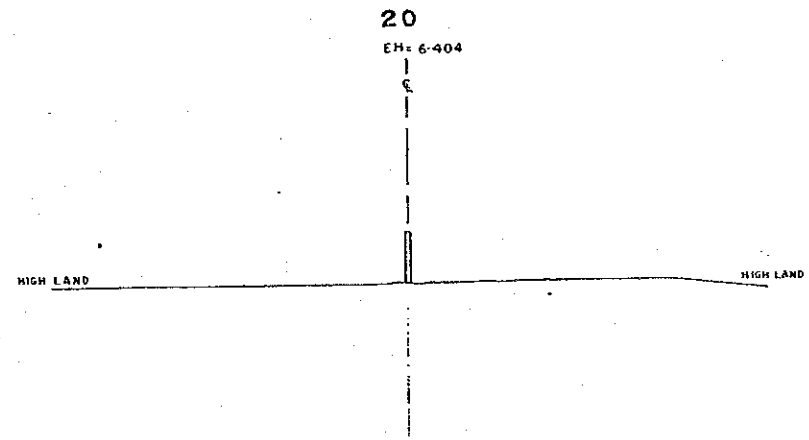
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GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
EXISTING FLOOD WALL			
GROSS SECTION			
BABO BAZAR-CHINA-BRIDGE	SCALE	H=1:200 V=1:100	
DWG. NO. EF/C-4	DATE	JUNE, 1991	
JAPAN INTERNATIONAL CO OPERATION AGENCY			