

THE PEOPLE'S REPUBLIC OF BANGLADESH
FLOOD PLAN COORDINATION ORGANIZATION

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



FAP 8A

DATA BOOK III
TOPOGRAPHIC SURVEY DRAWINGS

NOVEMBER 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

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3. UPDATED TOPOGRAPHIC MAP

- (1) STUDY AREA ON 1:50,000 SCALE
- (2) GREATER DHAKA AREA ON 1:20,000 SCALE
- (3) NARAYANGANJ AREA 1:20,000 SCALE

17

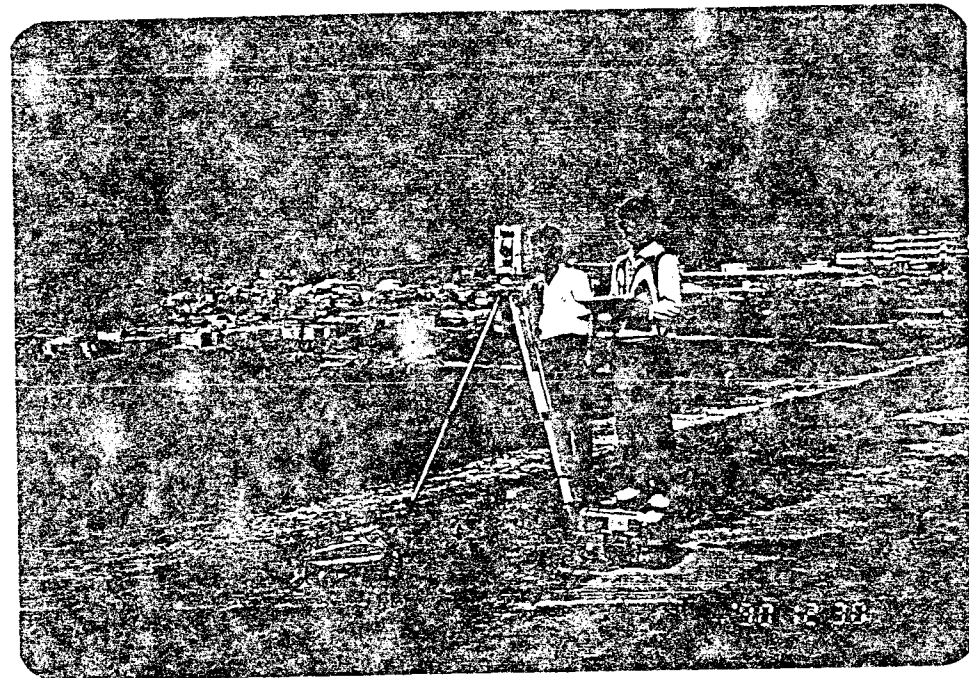
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1. SUPPORTING REPORT A



Field Reconnaissance



Topographic Survey

SUPPORTING REPORT A
GEOGRAPHY AND TOPOGRAPHY

SUPPORTING REPORT A
GEOGRAPHY AND TOPOGRAPHY

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SUPPORTING REPORT A: GEOGRAPHY AND TOPOGRAPHY

1. Location and Land Form

The study area (approx. 850 km²) is situated in between lat. 23°34' N-lat. 23°59' N and long. 90°13' E-long. 90°33' E, and consists of the Greater Dhaka and part of Tongi, Savar, Keraniganj and Narayanganj (Fig. A.1).

The study area is composed of alluvial terraces and low lying areas. Dhaka city and surrounding towns are located mainly on alluvial terraces, named the Madhupur Jungale Terrace.

A rough land form map which illustrates stretches of comparatively high elevated areas and low lying areas in the study area was prepared based on the contour maps collected, accuracy of which is likely to be considerably varied (refer. Fig. A.2).

The map shows the following land form areas :

<u>Land form Area</u>	<u>Description</u>
- 1	higher than 10.0 meter (GTS)
- 2	8.0 - 10.0 meter (GTS)
- 3	6.0 - 8.0 meter (GTS)
- 4	4.0 - 6.0 meter (GTS)
- 5	2.0 - 4.0 meter (GTS)
- 6	lower than 2.0 meter (GTS)

The land form areas -1 and -2 are supposed to be safe from normal floods, but the land form area -3 seems to be marginally free from floods. Distinct low land is lying towards the north-west and east side of Dhaka city.

2. Available Topographic Map

Several kinds of topographic maps were collected from SOB, BWDB, SPARRSO and other concerned agencies through FPCO coordination. They are listed below.

<u>Scale</u>	<u>Description</u>
1. 1: 4,000	: prepared in 1986 with contour lines covering only a part of Narayanganj (Fig. A.3).
2. 1: 7,920	: prepared in 1965 - '72 with contour lines covering G. Dhaka, Keraniganj and partly Tongi and Narayanganj (Fig. A.4).
3. 1: 15,840	: prepared in 1964-'72 with contour lines covering Savar, partly Tongi and Narayanganj (Fig. A.5).
4. 1: 10,000	: prepared in 1989 partly with contour lines based on aerial photos 1983/'84 covering G. Dhaka, Keraniganj, Tongi and partly Narayanganj (Fig. A.6).
5. 1: 20,000	: reduced map of the above 1 : 10,000 scale map.
6. 1: 50,000	: prepared in 1971-'89 covering the whole country with no contour lines (Fig. A.3).
7. 1: 50,000	: spot satellite image taken in February - March, 1989 covering the whole country, indexed as of Fig. A.3.

Except the spot image map, the 1/10,000 scale map is the latest available map with recent field verification. The 1/50,000 scale map (No. 6 of above) was prepared by using old air-photos, and also contour maps of scales 1/7,920 (No. 2 of above) and 1/15,840 (No. 3 of above) were prepared during the period of East Pakistan.

Accordingly, above maps are old to use for the master plan. So, the 1/50,000 scale map is required to update by the latest maps, air-photos, field verification and other available data.

3. Survey datum

Two datums, called GTS and PWD are used for elevation survey in Bangladesh. The GTS (Great Trigonometrical Survey) is the Bangladesh standard datum of levelling. The national topographic map series is prepared based on GTS. On the other hand, PWD datum is used for hydrographic survey. The relationship of both datums is ;

$$\text{PWD} = \text{GTS} + 1.509 \text{ feet}$$

In the study area and its surroundings, there are seven (7) GTS bench marks established by SOB and eight (8) BWDB bench marks based on PWD datum. The location and elevations of these control points are shown in Fig. A.7 and Table A.1 respectively.

Out of the above control points, Ramna BM (GTS bench mark), which was used in JICA previous surveys from 1987 to 1990, was selected as the basic bench mark in this leveling survey. The elevation of Ramna BM is 24.2718 ft, a value that was confirmed by check levelling survey between Mymensingh and Comilla during 1966 - 1967.

4. Supplementary Survey

4.1 General

The supplementary survey was carried out to obtain the necessary data for hydrological and hydraulic analysis, and formulation of flood mitigation and stormwater drainage plan.

The supplementary survey consists of the followings ;

- 1) For updating the existing topographic maps (1:50,000, 1:20,000)
 - Spot height survey of the whole study area
 - Spot height survey for preparation of contour lines of low lands
- 2) For preparation of longitudinal and cross sections of rivers and drainage channels
 - Longitudinal and cross sectional survey
- 3) For existing facilities
 - Levelling and structural dimension survey

4.2 Updating of Existing Topographic Map

4.2.1 Spot height survey

- 1) Spot height of whole study area

In order to obtain a general feature of ground elevation in the whole study area, spot levelling was conducted along the existing roads shown in Fig. A.9. This survey was carried out at intervals of 200 m along the road. At each road location spot height determined of every 250 m pitch for a symmetric cross section of 0.5 km to either side of the road (a total of 1 km).

The total number of spot heights was approx. 5,700 points. The elevation of key points were indicated on the updated 1: 50,000 scale map.

- 2) Spot height of low land area

Grid spot height levelling was carried out at intervals of 100 m by 200 m. These data was used to draw the 50 cm contour lines of low land areas shown in Fig. A.10. The total number of grid heights were approx. 800 points.

4.2.2 1/50,000 scale map

The existing 1: 50,000 national map was updated based on the following available data. The updated map is used as the base map of this master plan study.

- 1) Satellite coloured spot image maps taken in February - March, 1989
- 2) 1/10,000 scale SOB maps (DHAKA CITY AND SURROUNDINGS) based on aerial photos 1983/84.
- 3) 1/50,000 scale national series of coloured infra-red air-photos taken in 1983/84.
- 4) 1/50,000 scale skeleton line map (DHAKA METROPOLITAN AREA) based on 1983/84 photos, SPARRSO.

For updating the 1/50,000 map, the spot image was used for the correction of the shape of rivers, major khals and also marsh area, because it is the latest available image. The areas covered by 1/10,000 scale map, was updated using these maps. The colour infra-red air-photos were referred to correct the planimetric features.

The SPARRSO skeleton map was used to refer the names of some facilities and minor roads. These items were verified on the field during December, 1990 to January, 1991.

About 800 key spot heights were added to this 1/50,000 scale map according to the results of spot height survey.

4.2.3 1/20,000 scale map

The 1/20,000 scale map covering the Greater Dhaka and Narayanganj area of about 380 km² was prepared for the subsequent feasibility study.

Following maps were used for this preparation:

- 1) 1/20,000 scale SOB maps.
- 2) 1/10,000 scale Dhaka city map prepared by JICA study team on Storm Water Drainage System Improvement Project, October 1987.
- 3) 1/15,840 scale Water Development Map

New maps were compiled from the above three kind of existing maps were used. The low land areas were inserted the contour lines at the intervals of 50 cm according to the results of grid spot height survey and also, corrected by field verification in February, 1991.

The areas of contour drawing is about 170 km² as shown in Fig. A.10.

All existing maps used for this map preparation were paper printed, as such the conditions of sheet connection between successive maps was not so good at some portions.

4.3 Longitudinal and Cross Sectional Survey of River and Drainage Channels

Longitudinal & cross-sectional surveys of the five (5) rivers and 55 drainage channels in the study area were carried out during the period February to March, 1991. The surveyed longitudinal length and number of cross-section are summarized below :

	River	Length (Km)	Nos. of Section
(1)	Balu River	27.6	7
(2)	Tongi Khal	14.4	3
(3)	Turag River	30.0	4
(4)	Karanatali River	11.2	4
(5)	Haidarabad Khal	3.7	3
	Total	86.9	21

	Drainage Area	Nos. of Khal	Length (Km)	Nos. of Section
(1)	Dhaka North West	8	26.1	35
(2)	Dhaka East	17	54.8	72
(3)	Narayanganj & DND	21	49.3	77
(4)	Keraniganj	9	24.8	32
	Total	55	155.0	216

Location of the above longitudinal and cross-sectional surveys are shown in Fig. A.11 & Fig. A.12. These drawings based on the PWD Datum were compiled as a survey data book.

4.4 Other Surveys

For the existing flood control facilities, following surveys were conducted.

- 1) Spot height survey of the existing flood-wall around DND project area in Narayanganj.
- 2) Structural dimension survey of five (5) sluice gate at west bank of the Great Dhaka.

TABLE A.1 List of Existing Control Point

1. Geodetic Survey Mark (S.O.B)

Name of Geodetic Survey Point	Latitude	Longitude
Nayarhat B.T.S	23° 54' 33.997"	90° 13' 54.874"
Tongi B.T.S	23° 53' 45.43"	90° 24' 36.77"
Savar B.T.S.	23° 51' 36.48"	90° 16' 01.62"
Gulshan B.T.S	23° 47' 49.54"	90° 25' 06.49"
MET. Office	23° 46' 08.018"	90° 23, 01.207"

2. G.T.S. BM (S.O.B)

Name of B.M. (S.O.B)	Value in GTS
A/21	27.447 ft.
S.O.B	27.3810
B - 79	22.970
G - 8	20.370
Ramna B.M.	24.2718
G.B. M - 1	20.5154
G.B. M - 2	22.7894

3. BWDB BM (PWD)

Name of Gauge Station	B.M. Value in PWD	Latitude	Longitude
7.5 Demra	6.817 m	23° 44' N	90° 30' E
14.5 Nayarhat	9.316	23° 54' N	90° 14' E
42 Millbarak	6.776	23° 14.9' N	90° 25.3' E
69 Savar	8.358	24° 14.9' N	90° 11' E
299 Tongi	10.644	23° 52.8' N	90° 24.2' E
7 Pubail	7.529	23° 56.5' N	90° 29.8' E
302 Mirpur	10.451	23° 47.3' N	90° 20.3' E
71 Kalagachia	5.450	23° 34.7' N	90° 32.7' E

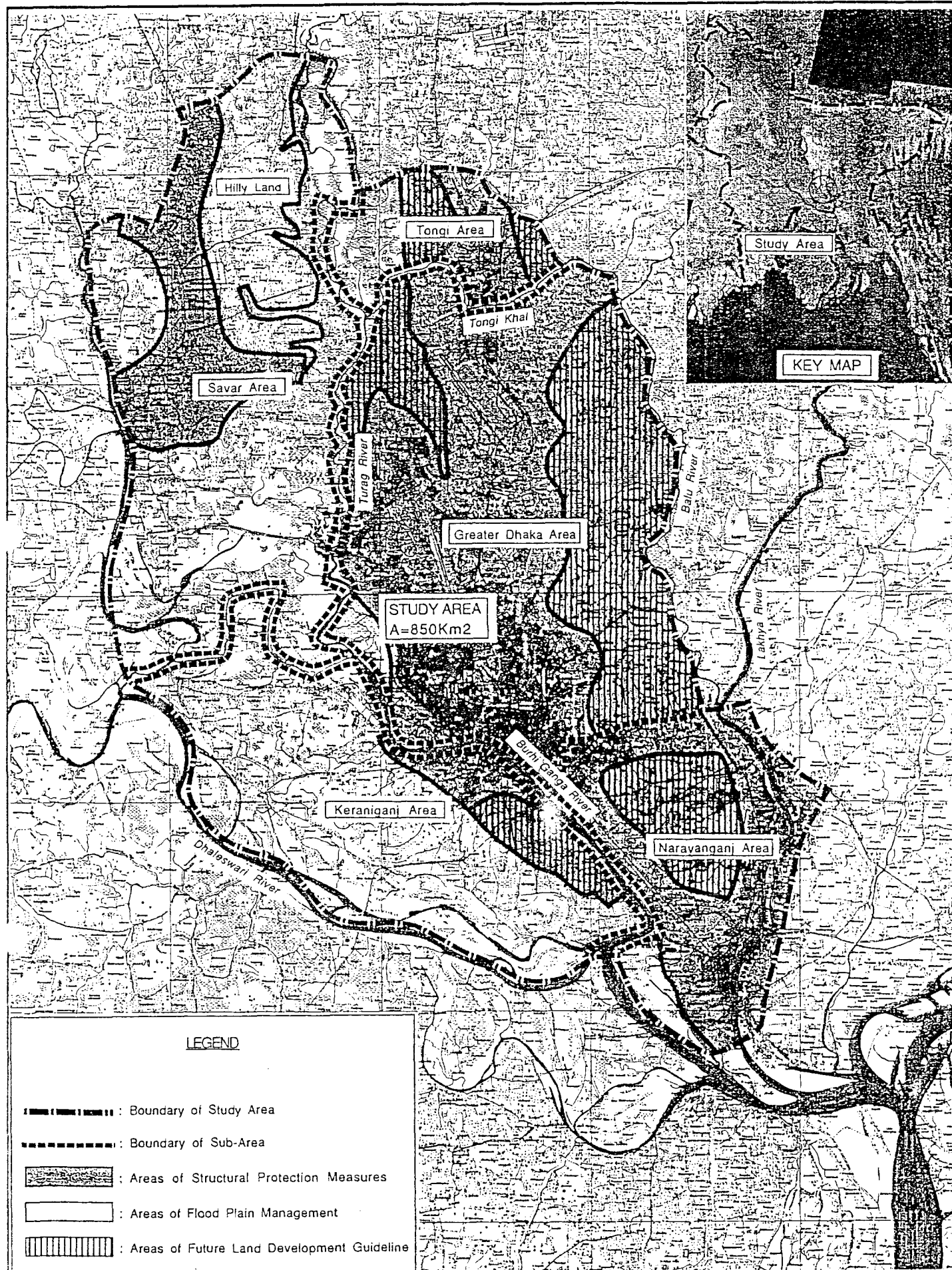


FIG. A.1 LOCATION MAP OF THE STUDY AREA

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

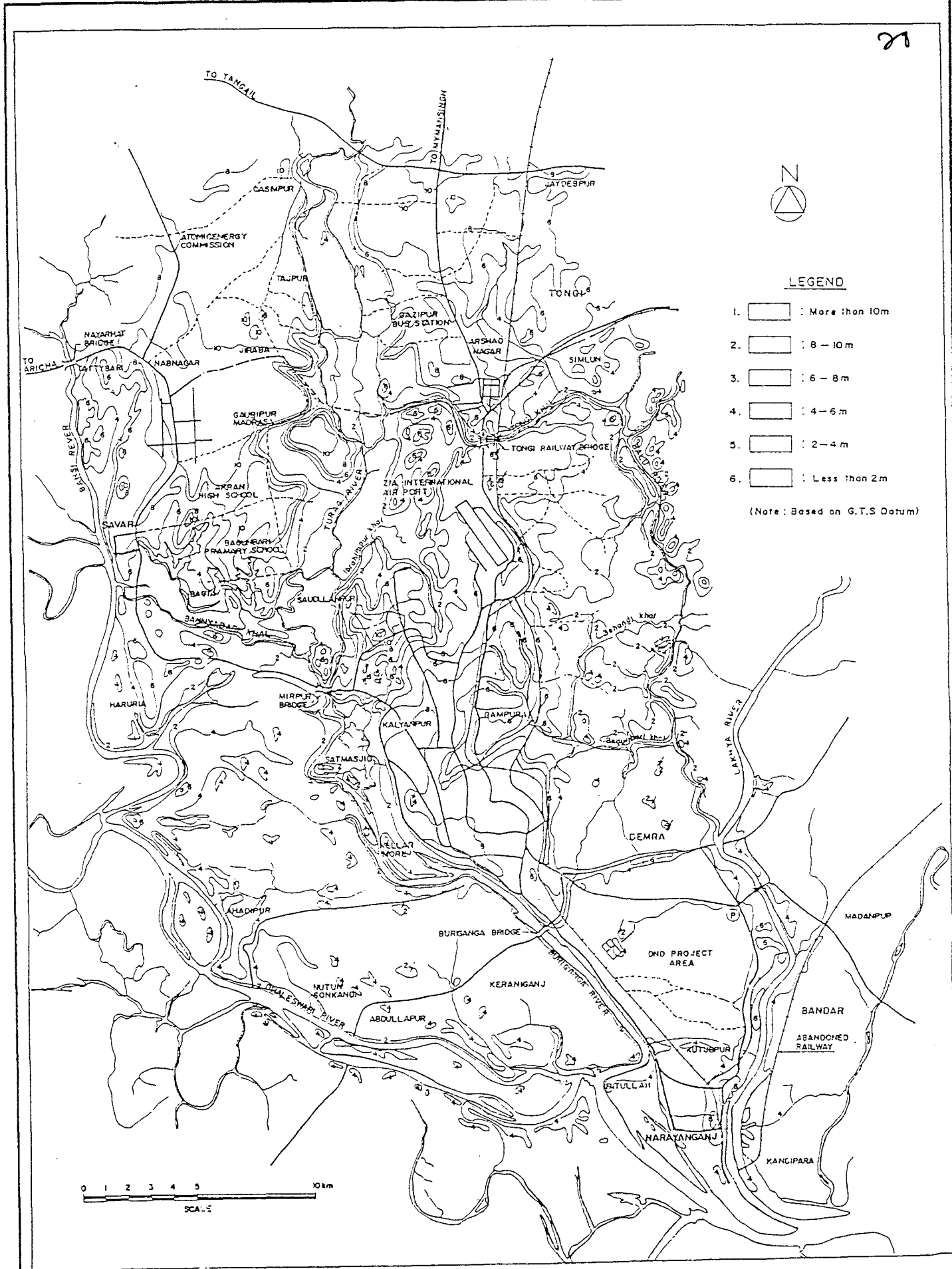
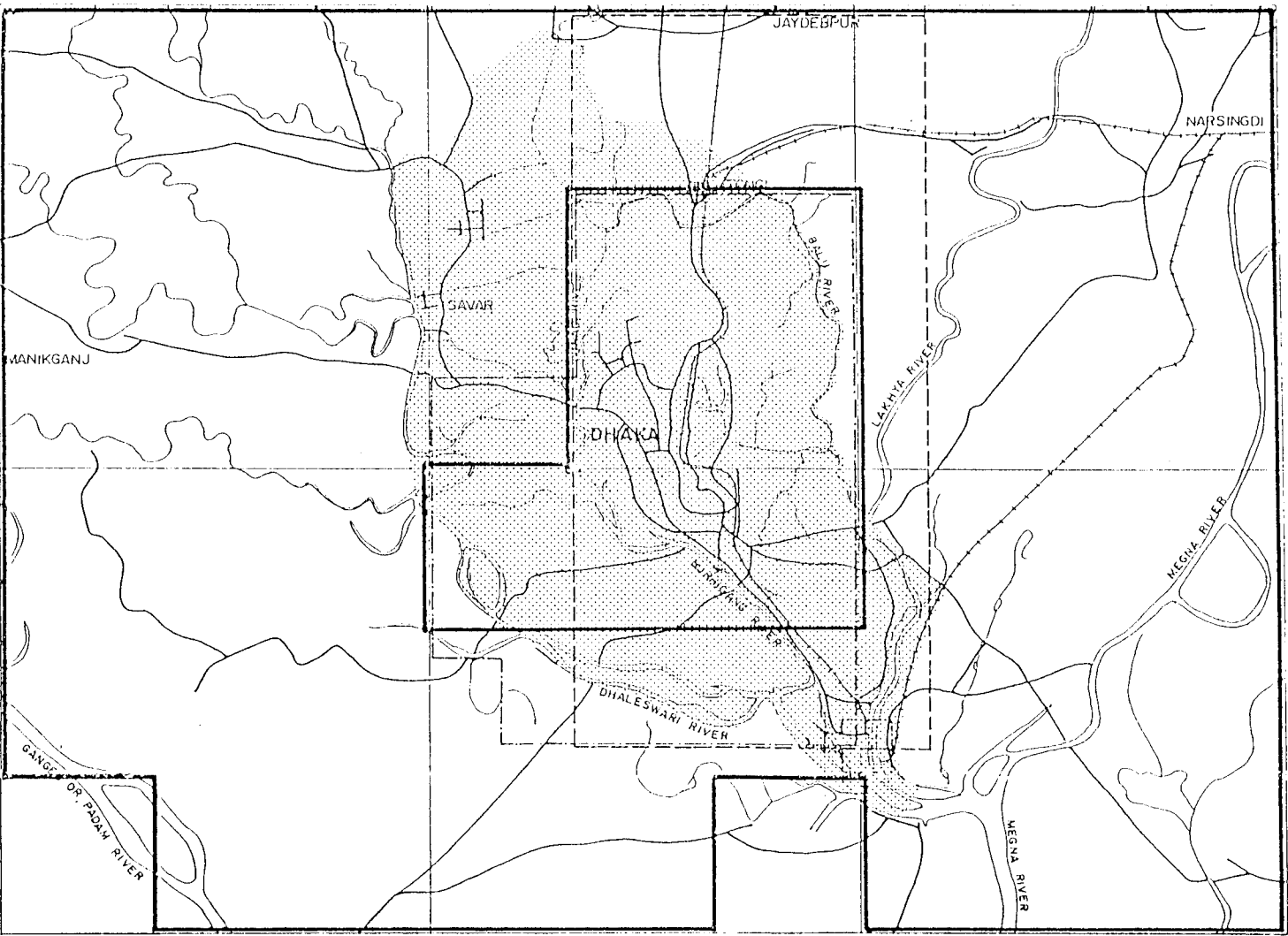
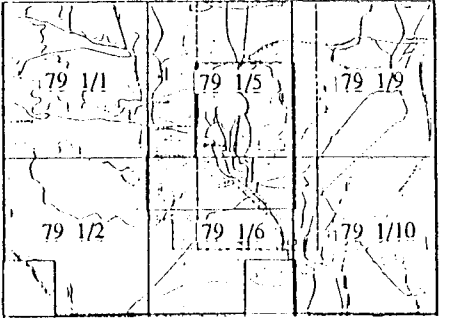


FIG. A.2 LAND FORM OF THE STUDY AREA

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH



SHEET NO. (1 : 50,000)



LEGEND

SCALE (SURVEY YEAR)

- 1 : 15,840 (1964 - 1972)
- 1 : 7,920 (1965 - 1972)
- 1 : 10,000 (1989)
- 1 : 4,000 (1986)



FIG. A.3

EXISTING MAP INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

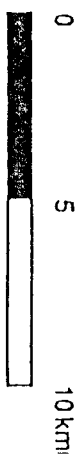
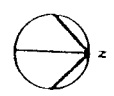
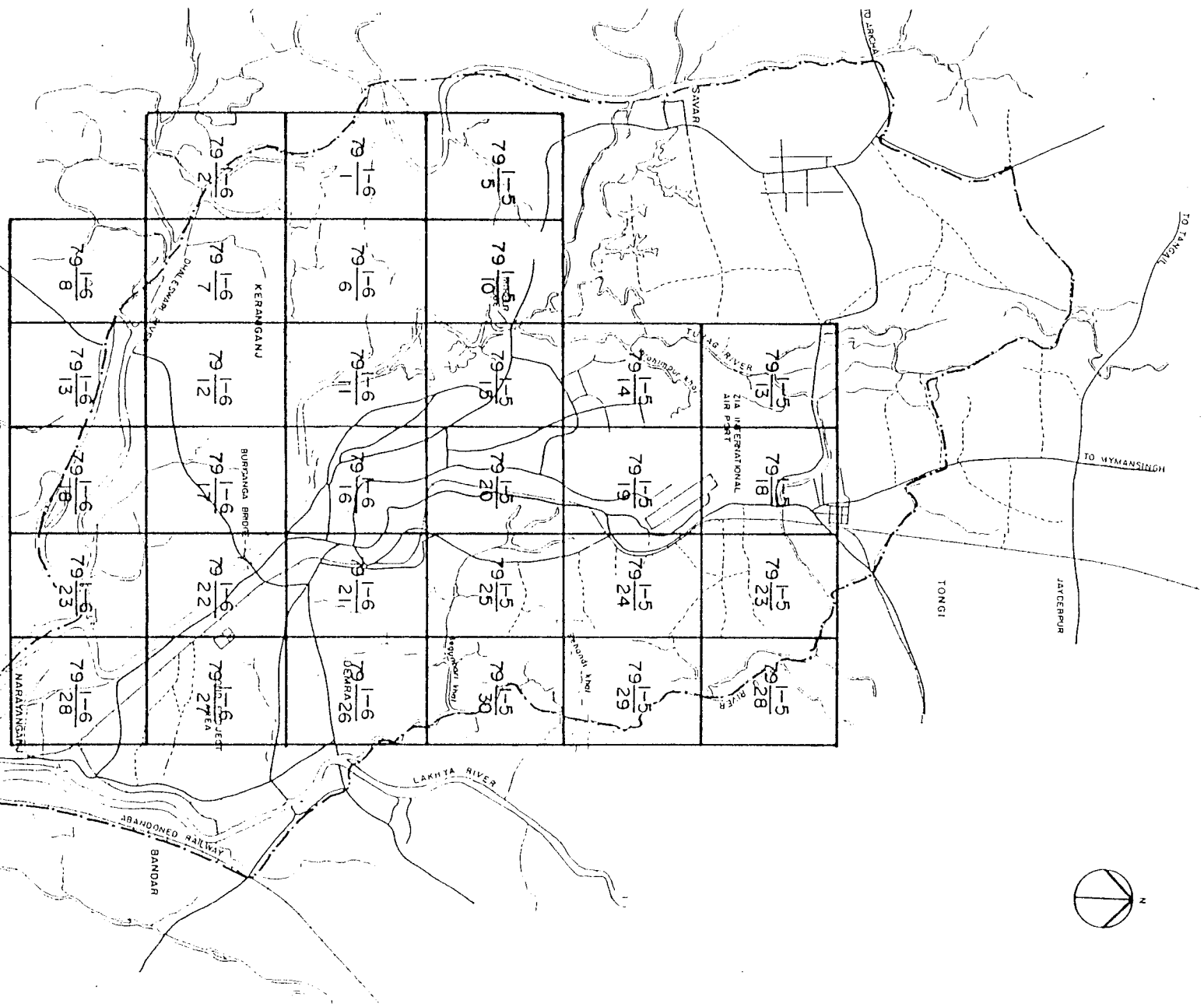


FIG. A.4

1 / 7,920 SCALE CONTOUR MAP SHEET INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

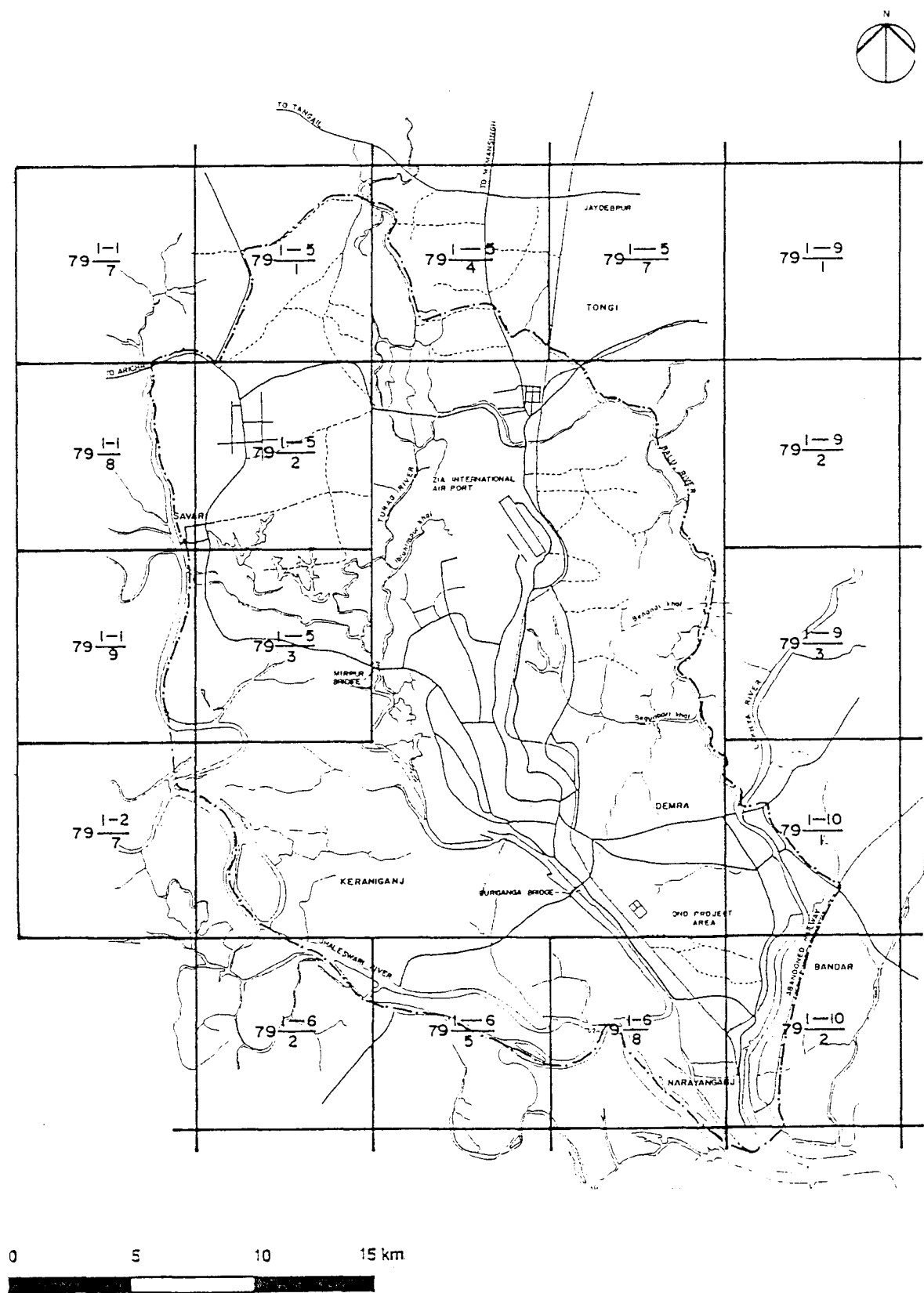


FIG. A.5 1/15,840 SCALE CONTOUR MAP SHEET INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

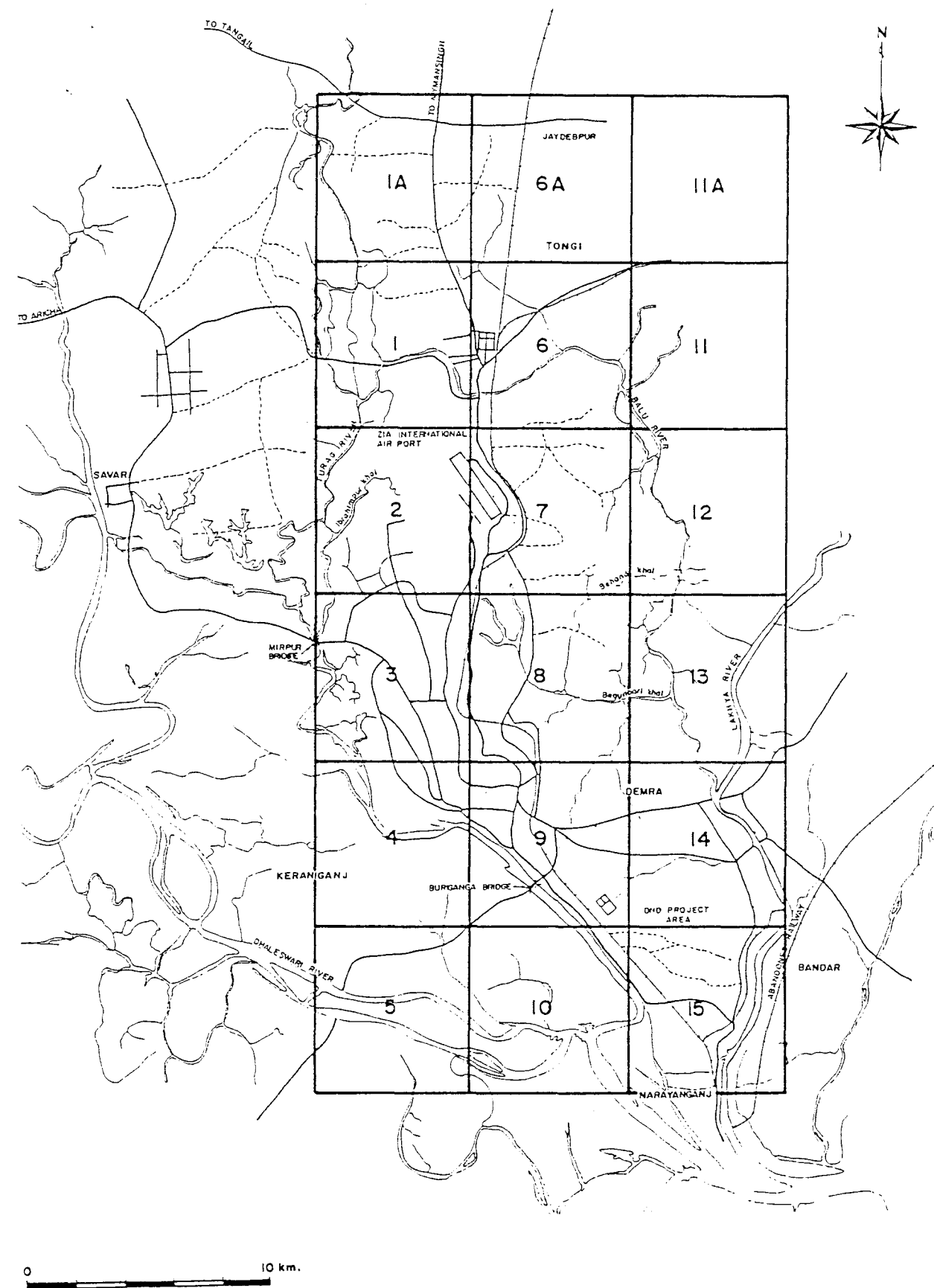


FIG. A.6 1/10,000 SCALE MAP SHEET INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

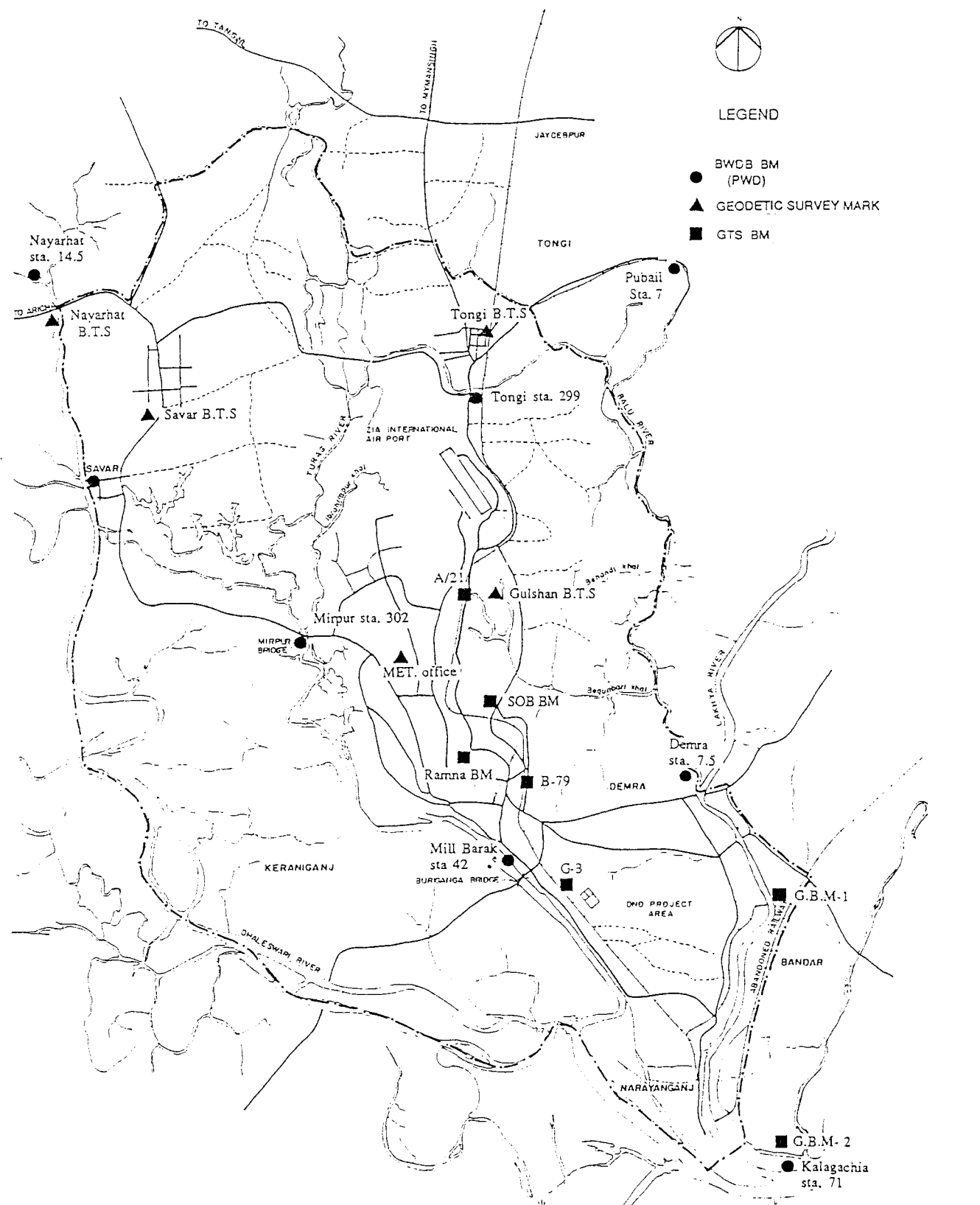


FIG. A.7 EXISTING CONTROL POINT LOCATION MAP

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

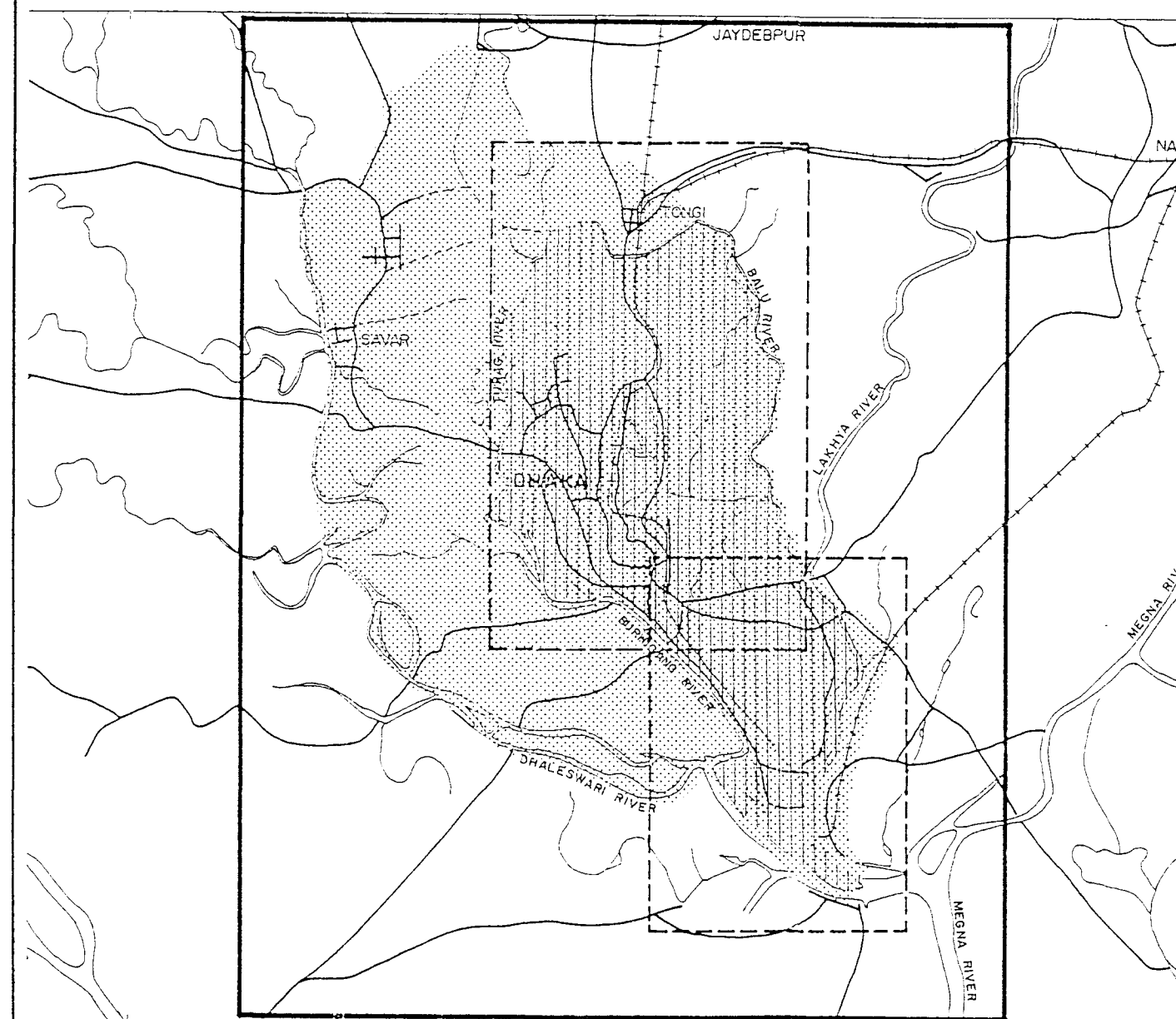


FIG. A.8 UPDATED SHEET INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

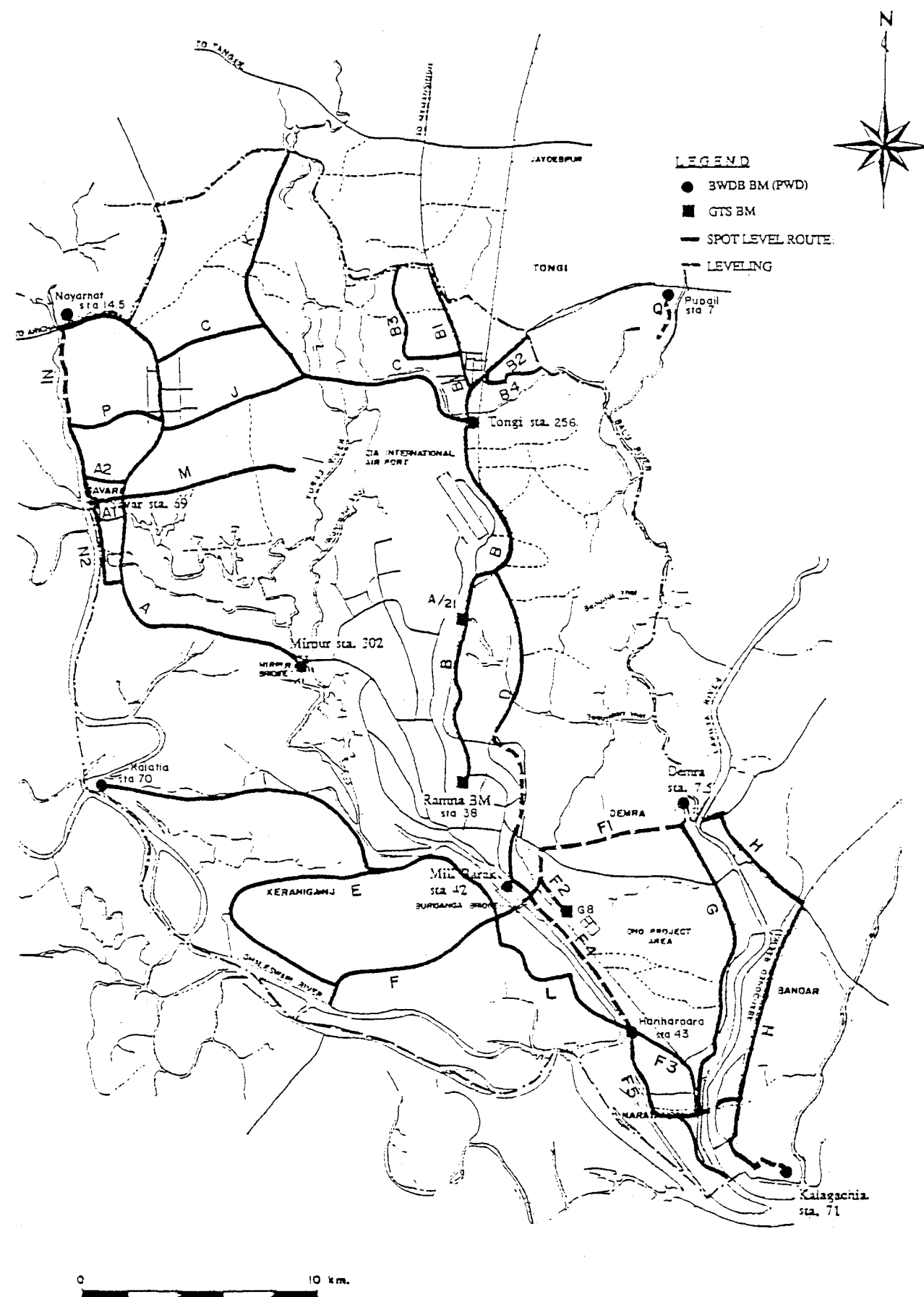


FIG. A.9 ROUTE OF SPOT LEVELING SURVEY

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

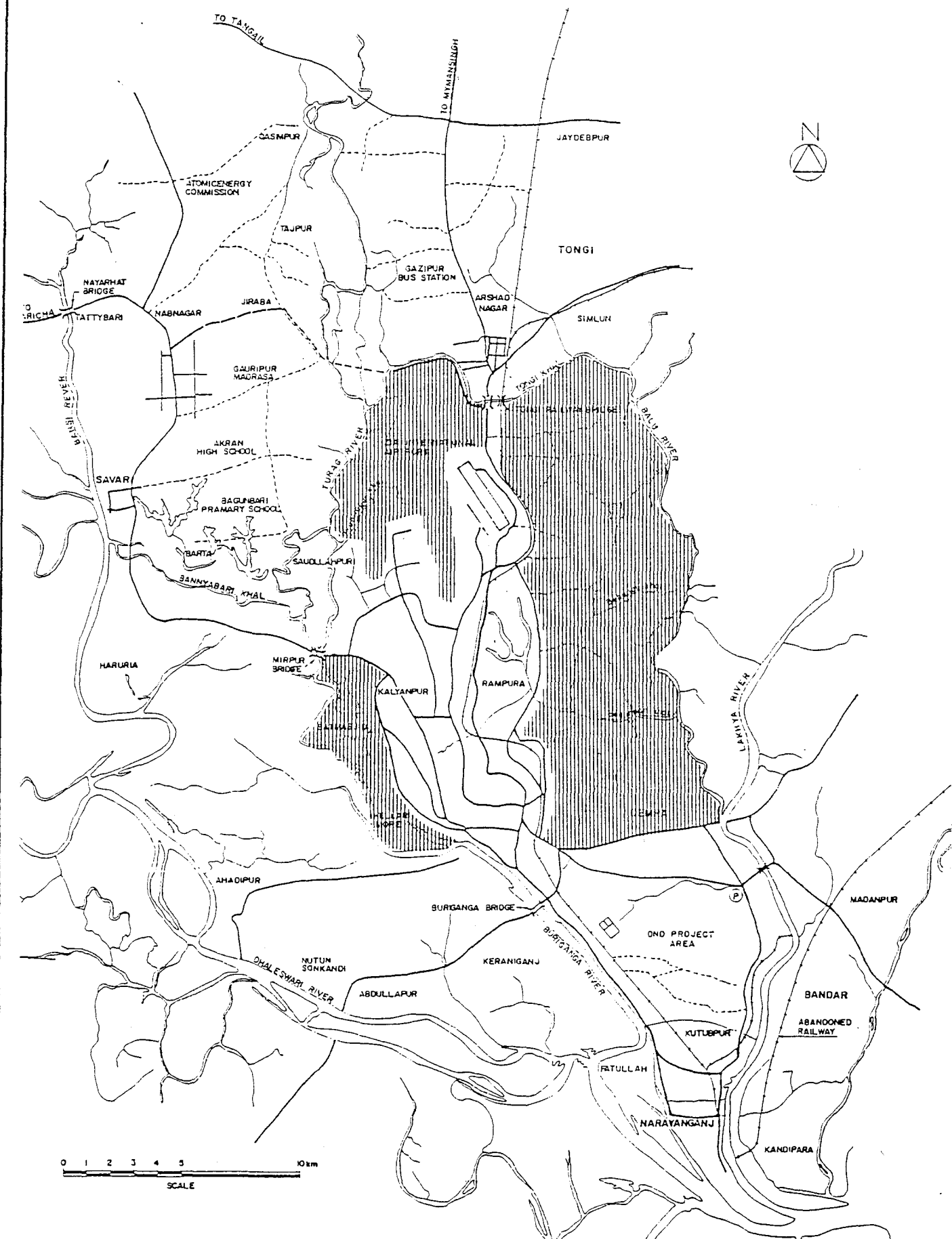


FIG. A.10 AREA OF GRID SPOT LEVELLING SURVEY

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

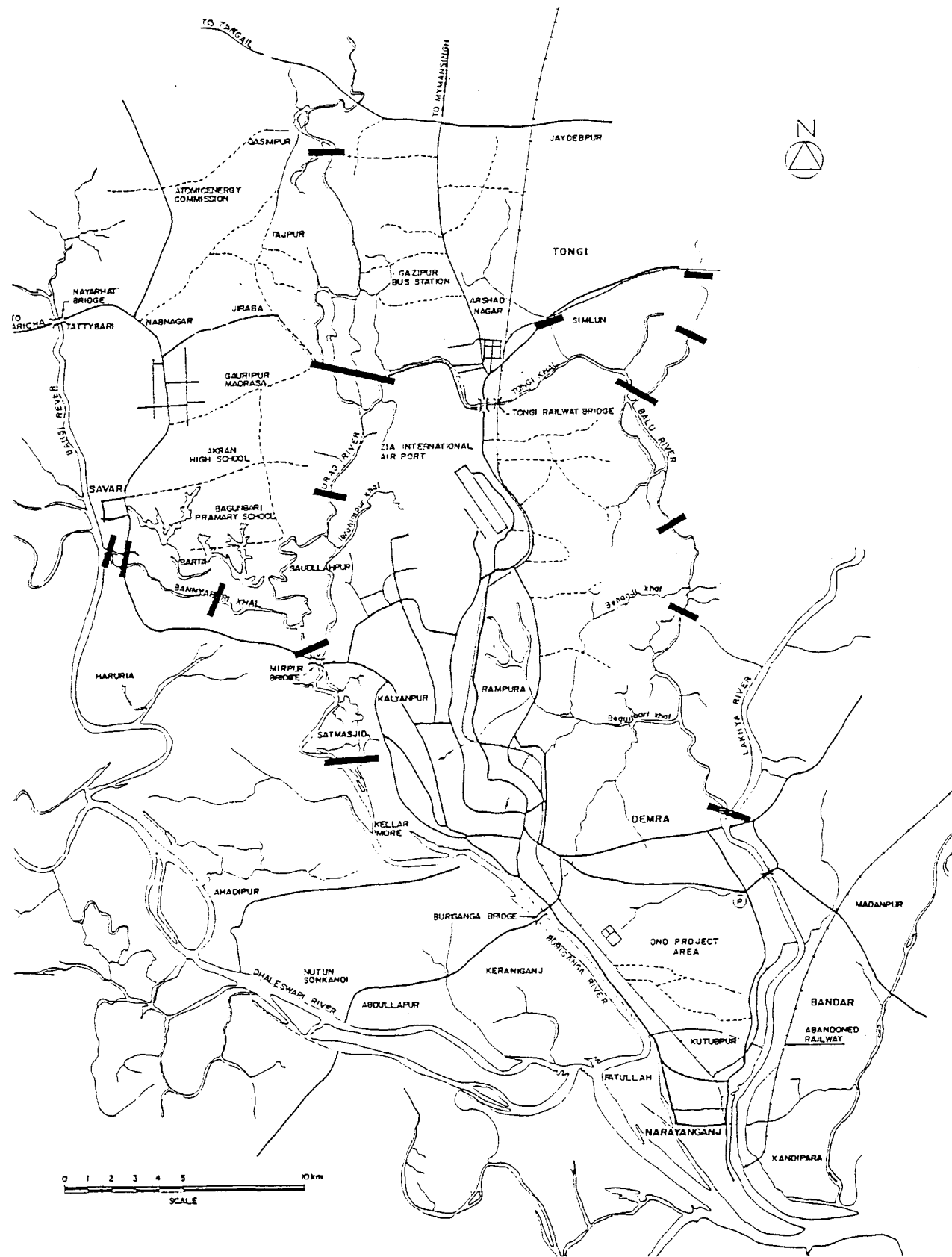


FIG. A.11

LOCATION OF LONGITUDINAL
AND CROSS-SECTIONAL SURVEY OF RIVER

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF
BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

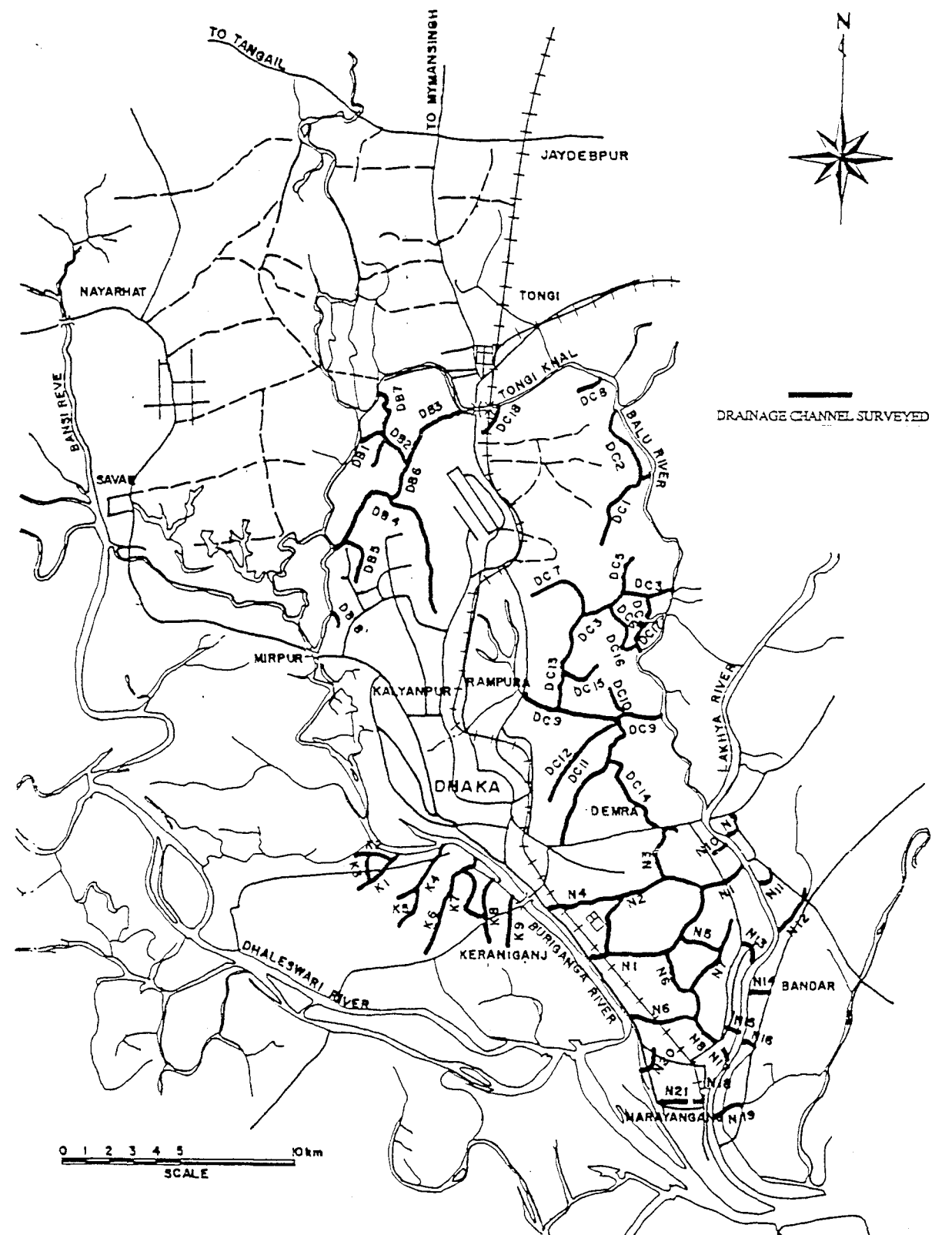


FIG. A.12

LOCATION OF LOGITUDINAL
AND CROSS-SECTIONAL SURVEY OF CANAL

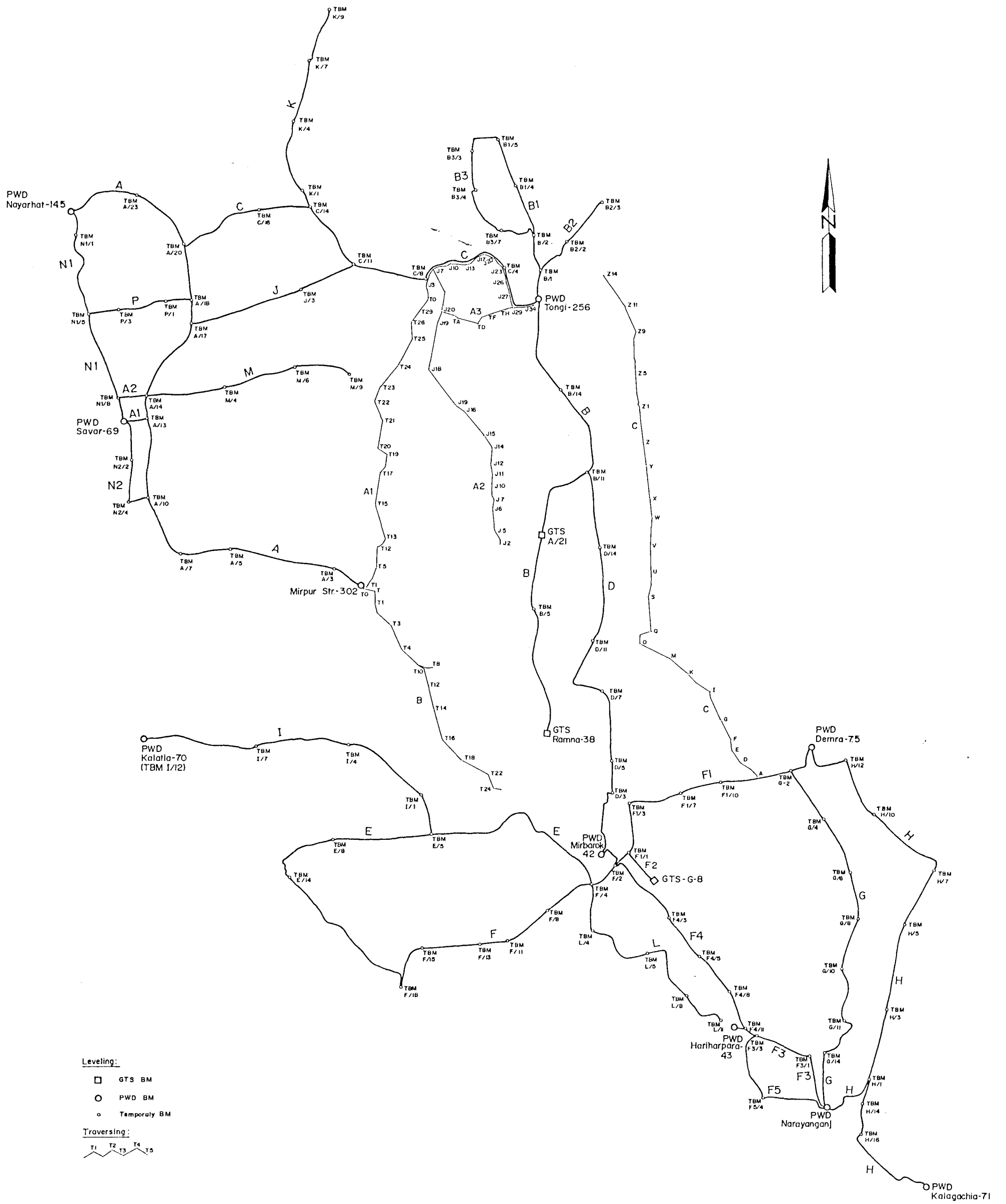
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF
BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH



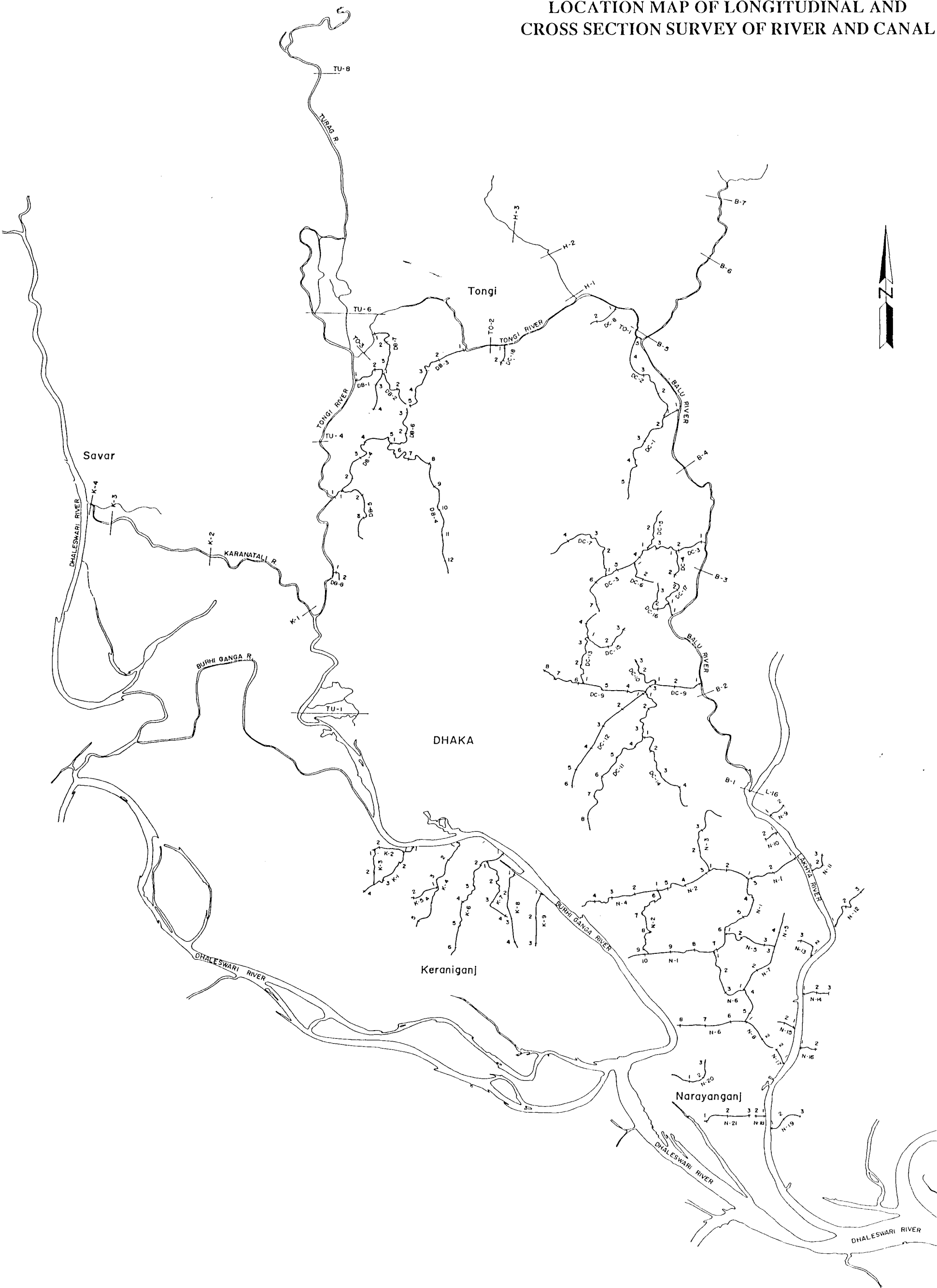
2. LONGITUDINAL AND CROSS SECTION

**2.1 TRAVERSING/LEVELING NETWORK
MAP AND LOCATION MAP OF
LONGITUDINAL/ CROSS SECTION
SURVEY OF RIVER AND CANAL**

TRAVERSING AND LEVELING NETWORK MAP



LOCATION MAP OF LONGITUDINAL AND CROSS SECTION SURVEY OF RIVER AND CANAL



2.2 DESCRIPTION OF BENCH MARK

DHAKA CITY BENCH MARK

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE - A : FROM B*DB.BM.MIRPUR BRIDGE TO B*DB.BM NAYAHAT BRIDGE.			
A-1	Marked on the west-end of top stair of Mafidi-e-Am High School, Amin Bazar which is Right side of Dhaka-Aricha road.	8.991	
A-2	Marked on the south-west corner of wing wall of bridge on Dhaka-Aricha road which is about 500m away from Amin Bazar.	10.257	
A-3	Marked on the base of kilometre post Dham- rai 23 km. and Dhaka 15 km. on Dhaka-Aricha road.	7.908	
A-4	Marked on the base of kilometre post Aricha 72 km. and Dhaka 18 km. on Dhaka-Aricha road.	6.984	
A-5	Marked on the base of kilometre post Dhamrai 21 km and Dhaka 17 km. which is about 250m East of Bailampur bus stand on Dhaka-Aricha road.	7.641	
A-6a	Marked on the west corner of wing wall of a bridge which is about 1 km. East from Hemayetpur Bazar.	12.047	
A-6	Marked on the top of kilometre post Aricha 70 km. Savar 8 km. and Dhaka 13 km. which is about 1 km. East from Hemayetpur Bazar.	8.919	
A-7	Marked on the base of kilometre post Dhamrai 19 km. and Dhaka 19 km. which is at Hemayetpur bazar.	7.643	
A-8	Marked on the base of kilometre post Aricha 68km. and Dhaka 20 km. which is about 1 km. from Hemayetpur Bazar.	7.919	
A-9	Marked on the base of kilometre post Dhamrai 17km and Dhaka 21km. on Dhaka-Aricha road.	7.785	
A-10	Marked on the base of kilometre post Dhamrai 16km. and Dhaka 22 km. on Dhaka-Aricha road.	8.353	
A-11	Marked on the base of kilometre post Dhamrai 15 km. and Dhaka 23 km. on Dhaka-Aricha road.	9.200	
A-12	Marked on the base of Pucca Pillar of sign- board "SAVAR UPAZILA PALISAD" which is situated Right side of Dhaka-Aricha road.	9.019	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks
LINE - A2 : LINE FROM BM A-14 TO BM N1-3			
A2-1	Marked on the floor of Badal General Store which is about 320m West from the Savar Bus-stand and is near by the road to Savar Bazar.	8.242	
A2-2	Marked on the plinth level of Agrani Bank which is east of Savar bazar.	9.015	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE - A :			
A-13	Marked on the base of Pucca Pillar of sign- board "UPAZILA SHASTA PRAKALPA,SAVAR" which is Right side of Dhaka-Aricha road.	8.460	
A-14	Marked on the base of kilometre post Dhamrai 12 km. and Dhaka 26 km. which is at Savar Bus stand on Dhaka-Aricha road.	9.379	
A-15	Marked on the base of kilometre post Dhamrai 11 km. Dhaka 27 km. which is 1 km. north from the Savar Bus stand on Dhaka-Aricha road.	9.705	
A-16	Marked on the base of kilometre post Aricha 60 km. Dhaka 28 km.	11.023	
A-17	Marked on the base of kilometre post Dhamrai 9 km. and Dhaka 9 km. on Dhaka-Aricha road.	12.093	
A-18	Marked on the base of kilometre post Aricha 58 km. Dhaka 30 km.	14.196	
A-19	Marked on the base of kilometre post Dhamrai 7 km. Dhaka 31 km.	13.438	
A-20	Marked on the base of kilometre post Aricha 56 km. Dhaka 32 km.	13.831	
A-21	Marked on the base of kilometre post Dhamrai 5 km. Dhaka 33 km. which is North side of Cantonment Public School Gate.	12.189	
A-22	Marked on the base of kilometre post Aricha 54 km. Dhaka 34 km.	10.060	
A-23	Marked on the base of kilometre post Dhaka 35 km and Dhamrai 3 km. which is East of Gana Shasta Kendra on Dhaka-Aricha road.	10.407	
A-24	Marked on the base of kilometre post Aricha 52 km and Dhaka 38 km which is near "LINA TEXTILE INDUSTRIES LIMITED".	9.241	
A-25	Marked on the base of kilometre post Dhamrai 1 km. Dhaka 37 km.	9.933	
B*DB. BM	Nayahat 14.5	8.927	
B*DB BM	Mirpur 302	10.006	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE- B : FROM G.T.S. RAMNA TO B*DB. BM. TONGI BRIDGE.			
G.T.S. Ramna 38		7.399	
B-1	Marked on the plinth level of Telephone Box which is south east of Bally road & East side Kakrail to Maghbazar road.	8.663	
B-2	Marked on the plinth level of Railway crossing Guard room on Tongi Division Road, Moghbazar.	8.279	
B-3	Marked on the south east corner of manhole slab which is Polytechnic opposite site from Polytechnic Institute.	8.050	
B-4	Marked on the base of Pillar at gate of Bengal Beverage Industries Limited.	8.016	
B-5	Marked on the floor level south east corner of Modern Auto Filling House, Mohakhali.	7.585	
B-6	Marked on the plinth level of Telephone box where near A.R.A. Mansion, Mohakhali.	7.105	
B-7	Marked on the base of D.O.H.S. signboard post near the PONI Photographers and Railway crossing.	7.927	
B-8	Marked on the base of Flag stand West side of road near the Navy Gate.	7.438	
B-9	Marked on the base of Power pole near the station officers mess, Banani.	6.996	
B-10	Marked on the base of kilometre post Dhaka 13 km. Tongi 8 km. which is near the Canton- ment Railway Station.	7.116	
B-11	Marked on the base of kilometre post Dhaka 14 km Mymensingh 107 km.	6.834	
B-12	Marked on the base of Poster wall west side of Road.	7.348	
B-13	Marked on the base of kilometre post Dhaka 16 km and Mymensingh 105 km.	7.332	
B-14	Marked on the Flag wall which is near the V.V.I.P. Terminal	7.740	
B-15	Marked on the base of kilometre post Dhaka 18 km. and Mymensingh 103 km.	7.731	
B-16	Marked on the Island Jasimuddin Avenue at Uttara Model Town.	7.987	
B-17	Marked on the base of kilometre post Dhaka 20 km. Mymensingh 101 km.	9.214	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE-A1 Line from A13.			
X1	Marked on the step of stair in the house of Master A. Sattar at Partipur village.	7.685	
X2	Marked on the gate of Rakhal Ch. Memorial Hall.	7.812	
B*DB BM	Savar 69	7.799	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE - B1 : LINE FROM B*DB.BM TONGI.			
B-1/1	Marked on the floor at the north-east side of gate of Telephone Silpa Sangstha Limited at Tongi.	7.609	
B-1/2	Marked inside at the gate of Dhaka Steel Works Limited at Tongi Industrial Area.	8.511	
B-1/3	Marked on the plinth level south-west corner of Hossain Market, Tongi	6.924	
B-1/4	Marked on the plinth level north-east corner of Maa Enterprise which is west side of Mymensingh road at Tongi.	6.866	
B-1/5	Marked on the Flag wall south-east corner of Khaled Iron and Steel Limited, Tongi.	7.067	
B-1/6	Marked on the south-west corner of bridge which is near kilometre post Dhaka 28 km. & west side of Matsha Khamar, Board bazar, Tongi.	8.214	
LINE - B2 : LINE FROM BM.B-1/1.			
B-2/1	Marked on the plinth level of guard at Railway crossing at Tongi.	8.535	
B-2/2	Marked on the plinth level at Mainamati Store near Mark on T & T Colony gate, Tongi.	6.712	
B-2/3	Marked on the south-west corner of Railway bridge at Majukhan village.	10.481	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.	BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.	BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
				LINE-C : FROM TONGI BRIDGE TO ARICHA ROAD.				LINE-D : FROM BWDB.BM.MILL BARRAK TO BM.11 OF LINE-B (BISWA ROAD MUR, NEW AIRPORT ROAD)			
LINE - B3 LINE FROM BM. B-1/8 TO BM.B-1/2.				BADB	Bench Mark Tongi 299	10.248		BWDB.	Bench Mark Mill Barrak 42	6.424	
B-3/1	Marked on the pipe culvert at Guasha village.	7.689		C-1	Marked on the south east corner of Sluice gate of BADB Embankment.	8.088		D-1	Marked on the south east corner of plinth level of SONALI BANK at 157 Distirillary Road Mur.	6.247	
B-3/2	Marked on the plinth level south-east corner of a house belongs to Naju Molla at Guasha village.	9.273		C-2	Marked on the north west corner of Mandir near the house of Motigosh at Ranabola village.	6.810		D-2	Marked on the north west corner of Dayaganj Bridge on Tikatoly-Dupkhola road.	9.487	
B-3/3	Marked on the plinth level south-east corner of a house belongs to Syed Laskar at Sataish-Bandi village	8.206		C-3	Marked on the top of Mimbar of Roshadia Idgah.	7.888		D-3	Marked on the sign board.	7.734	
B-3/4	Marked on the plinth level south-west corner of a house belongs to Mafiz Khan at Satash bazar.	9.103		C-4	Marked on the 2nd step of stair of a house belongs to Ansar Ali in Kamarpura village.	6.344		D-4	Marked on the Footpath on Jatrabari-Khilgaon road which is at north-east gate,Dhaka city Corporation Office.	7.286	
B-3/5	Marked on the north-east corner of Tower of 33 KV. Line.	8.298		C-5	Marked on the plinth level north-west corner of a house of Ali Akbar in Nayani Chala village.	5.922		D-5	Marked on the south west corner of Plinth level of Hotel Apollo,House No.59/1,0tish Derrakur road at South Mugdapara.	7.060	
B-3/6	Marked on the pipe culvert at Bara Deora village.	8.617		C-6	Marked on the plinth level north west corner of a house belongs to Sukur Depari in Nayani Chale village.	7.137		D-6	Marked on the plinth level at gate of Kamala-pur High School which is south west corner of Maynkanon.	6.846	
B-3/7	Marked on the plinth level of Shop belongs to A. Haque Mandal at Bazar, Tongi.	7.452		C-7	Marked on the plinth level north east corner of a building belongs to Madan Sarker in Dhour Village.	7.356		D-7	Marked on the south-west corner of Plinth level of P.B.Coloney Pump house which is near Khilgaon Rail gate.	7.307	
B-3/8	Marked on the base of Power pole which is near the house of Ashraque Khan at Aushapara village.	8.097		C-8	Marked on the base of Pucca signboard pillar -ritten Tongi-Asolia, Savar road.	10.178		D-8	Marked on the top step of stair at door of Khilgaon Shahi Mosque which is west side of Khilgaon Sub-Post office.	7.458	
		8.361 ✓		C-9	Marked on the base north east corner of Tower No.209A of 132 KV. Power line.	3.930		D-9	Marked on the south west corner of staircase (Plinth level)of Malibag Super Market.	6.941	
				C-10	Marked on the top Bamboo Peg.	2.908		D-10	Marked on the Oil tank of PADMA OIL COMPANY LTD., D.I.T.Road, at Hajipara.	6.831	
				C-11	Marked on the north-west corner of culvert which is north of Asolia Bazar.	8.421		D-11	Marked on the plinth level south side of 2nd gate of Television Bhawan, Rampura.	7.076	
				C-12	Marked on the north east of plinth level of a Pucca house of Sekandar Mia in Tongabari village.	7.237		D-12	Marked on the base of Transformer Pole which is infront of Alambag Community Centre, Badda, Gulshan,Dhaka.	6.391	
				C-13	Marked on the north east corner of culvert which is on Asolia to Zirabo road.	7.462		D-13	Marked on the plinth level north west corner of Shop No.74/75,Hossain Super Market,north Badda, Gulshan, Dhaka.	6.801	
				C-14	Marked on the plinth level south west corner of a Shop of Ali Reza at Zirabo Bus stand.	10.284		D-14	Marked on the floor level south west corner of gate of Japanese School,Shahajadpur, Pragati Sarani, Gulshan,Dhaka.	7.222	
BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.	BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.	BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
Line-D				LINE - E : LINE FROM BM F-4.				LINE-F : FROM MILL BARRAK TO DHALES- WARI RIVER BANK ALONG MAWA ROAD.			
D-15	Marked on the gate of CIVIC,53 Sarwardhy Avenue Baridhara,Dhaka which is opposit side of Nayanagar Cocacola Agent.	6.962		E-1	Marked on the plinth level,south west corner of Losmanganj mosque near noor villa at Jingira.	6.832		F-1	Marked on the plinth level Faridabad Tele-phone office building.	6.668	
D-16	Marked on the south east corner of National Motor & Engineering Works, 33/KA Qural Pragati Sarani,Dhaka Cantonment.	7.742		E-2	Marked on the base of Power Pole which is near kilometre post 1/41 km & side of Nurul Islam's House at Bondchatgaon village.	5.767		F-2	Marked on the plinth level of post box, Postagola Army Cantonment gate.	6.807	
D-17	Marked on the north east corner of Pragati Shorani Rail Crossing Guard room.	8.171		E-3	Marked on the top of kilometre post 2/40 km. which is near Kalindi Girl's School.	6.676		F-3	Marked on the base of light post,south side of Chaina bridge over Buriganga river.	11.401	
				E-4	Marked on the top of kilometre post 3/39 km which is near Macross mosque.	6.402		F-4	Marked on the south-east corner of bridge No.1/8(Ekuria Bridge)on Dhaka Mawa road.	7.021	
				E-5	Marked on the north-east corner of paraphet wall of bridge and is near kilometre post 4/38 km.	8.460		F-5	Marked on the south-west corner of bridge No.8/2 on Dhaka Mawa road.	7.427	
				E-6	Marked on the base of Power Pole near kilometre post 5/37 km.	4.912		F-6	Marked on the base of kilometre post Dhaka 8 km.on Dhaka-Mawa road.	6.873	
				E-7	Marked on the top of kilometre post 6/36 km. which is at Konakhola village.	6.757		F-7	Marked on the south west corner of bridge No.9/1 on Dhaka-Mawa road.	7.403	
				E-8	Marked on the north-east corner of Velly bridge near Sakta High School	7.024		F-8	Marked on the base of kilometre post Dhaka 9 km.on Dhaka Mawa road.	6.933	
				E-9	Marked on the wall of pipe culvert left side of road near Kakatia village.	3.069		F-9	Marked on the north west corner of culvert No.10/1 on Dhaka-Mawa road.	7.426	
				E-10	Marked on the wall of pipe culvert which is right side of road near the village Ranerkanda.	4.287		F-10	Marked on the base of kilometre post Dhaka 10 km.on Dhaka-Mawa road.	6.943	
				E-11	Marked on the south-west corner of bridge which is at Rohitpur Bazar and near the Ranerkanda College.	6.716		F-11	Marked on the north-west corner of Bailey bridge over poinner khal at Rajendrapur Bus stand.	6.100	
				E-12	Marked on the north west corner of paraphet wall of Ruhitpur bridge.	8.638		F-12	Marked on the north west corner of culvert No.12/1 on Dhaka-Mawa road.	7.219	
				E-13	Marked on the south west corner of graveyard wall which is named Kalai Pakirr Majar at Sonakanda.	7.185		F-13	Marked on the base of kilometre post Dhaka 12 km.on Dhaka - Mawa road.	6.873	
				E-14	Marked on the south east corner of wing wall of Sonakanda bridge which is near the bus stand.	7.437		F-14	Marked on the base of kilometre post Dhaka 13 km.on Dhaka - Mawa road.	6.804	
								F-15	Marked on the base of kilometre post Dhaka 14 km.on Dhaka - Mawa road.	6.883	
								F-16	Marked on the base of kilometre post Dhaka 15 km.on Dhaka - Mawa road.	7.173	
								F-17	Marked on the south east corner of culvert No.16/1 on Dhaka-Mawa road.	7.135	
								F-18	Marked on the base of kilometre post Dhaka 16 km.on Dhaka - Mawa road.	7.324	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<u>LINE- F1 :</u> <u>Line from BM F2 to BM G2.</u>			
F1-1	Marked on the plinth level of Diana Cinema Hall.	6.249	
F1-2	Marked on the plinth level of Sangit Cinema Hall.	5.214	
F1-3	Marked on the plinth level Uttara Bank, Jatrabari.	6.253	
F1-4	Marked on Kajla bridge on Dhaka Demra Road.	8.433	
F1-5	Marked on the floor level at gate of Sukur Bhuiyan house at Kajla village.	5.981	
F1-6	Marked on the bottom of boundary wall of Rupsa Re-rolling Mills and Industries Ltd. north side of Dhaka-Demra road.	5.900	
F1-7	Marked on the south east corner of bridge No. 41- $\frac{1}{4}$ on Dhaka-Demra road at Mautail village.	9.434	
F1-8	Marked on south west corner of bridge No. 131- $\frac{2}{4}$ on Dhaka-Demra road at Mautail village.	7.861	
F1-9	Marked on the plinth level south west corner of Konanara mosque near Mautail Islamic Madrasha.	5.293	
F1-10	Marked on the north west corner of bridge No. 52- $\frac{3}{5}$ at Konanara village.	8.649	
F1-11	Marked on the paraphet wall south east corner of bridge No. 15- $\frac{2}{5}$ which is in front of Sufia Rolling Steel Mills Ltd. Konanara.	7.413	
F1-12	Marked on the south east corner of bridge No. 45- $\frac{3}{5}$ at Konanara village.	8.308	
F1-13	Marked on the south west corner of bridge No. 15- $\frac{1}{6}$ at Dilla village.	6.993	
F1-14	Marked on the south west corner of culvert near Marm Industrial Chemicals Limited.	5.824	
F1-15	Marked on the Island (Shahid Minar) on Demra trifurcate road.	7.815	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<u>LINE - F-4:</u> <u>Line from BM.F2 to B+DB, BM.NO. 43 at Hariharpara, Narayanganj.</u>			
F-4/1	Marked on the Sentic tank which is in front of the gate of ALLAH METAL INDUSTRIES LTD. and is North side of road.	6.741	
F-4/2	Marked on the plinth level which is in front of the gate of M/S. INTERNATIONAL LTD. & is near Momtazi Calendering Printing Mills Limited.	6.726	
F-4/3	Marked on the floor at the gate which is in front of M.M.OIL MILLS LTD.	6.878	
F-5/4	Marked on the base of Electric Pole which is in front of Haji Shamsuzzaman & Brothers and east side of road.	6.310	
F-4/5	Marked on the floor at the gate of V.I.P. Terminal BINTA, Pagla.	6.773	
F-4/6	Marked on the plinth level, North east corner of Aligonj Zam-e-Mosque.	6.560	
F-4/7	Marked on the plinth level of Aligonj Iron works, Idrakpur, Fatulla.	6.101	
F-4/8	Marked on the plinth level south east corner of K.ALI FOUNDRY & ENGINEERING WORKS, IDRAKPUR, Fatulla.	6.403	
F-4/9	Marked on the plinth level south west corner of DAPA Zam-e-Mosque, Fatulla.	7.102	
F-4/10	Marked on the plinth level north-east corner of Fatulla Bazar Mosque.	6.334	
F-4/11	Marked on the floor which is at the gate of 33/11 KV Power Station, Fatulla.	6.448	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<u>LINE- F2</u> <u>Line from F1/1 to SOB, BM. Rly. Bridge.</u>			
F2-A	Marked on the north west corner Sympur Rly. bridge.	7.531	
SOB BMG-8	Marked on the Pajakhola Railway bridge, Sympur, Kadamtala.	6.128	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<u>LINE- F5</u> <u>Line from F3-3 to Narayanganj.</u>			
F5-1	Marked on the bridge on the road from Panchabati-Munshigonj road.	4.004	
F5-2	Marked on the Manhole on Panchabati-Munshigonj road.	5.423	
F5-3	Marked on the step of stair in front of the house of Latif Mia.	5.361	
F5-4	Marked on the plinth level of Shopping Centre near Symoli Cinema Hall at Kashipur bazar.	5.575	
F5-5	Marked on the bridge on Kashipur-Narayanganj road.	5.363	
F5-6	Marked on the plinth level of PINKIE BISCUIT FACTORY, Paikpara, Narayanganj.	5.741	
F5-7	Marked on the traffic mur No. 1 R.I. ghat Narayanganj.	6.329	
B+DB BM	Narayanganj .	5.817	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<u>LINE-F3</u> <u>Line from Hariharpara-Narayanganj.</u>			
F3-1	Marked on the Island at Railway Gate No. 1 Chasara.	6.668	
F3-2	Marked on the Manhole on Narayanganj-Dhaka Road.	6.419	
F3-3	Marked on the Manhole at Panchabati on the Narayanganj-Dhaka road.	6.674	
B+DB BM	Hariharpara 43	5.475	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<u>LINE -G: FROM B+DB, BM DEMRA.</u>			
G-1	Marked on the manhole at Ahmed Bawani Jute Mills which is west side of the road.	6.674	
G-2	Marked on the north east corner of Shahid Minar at the trijunction of road at Demra mur.	7.820	
G-3	Marked on the base of kilometre post 11km. which is west side of road from Demra to Narayanganj.	6.535	
G-4	Marked on the base of kilometre post 10km. which is west side of Demra-Narayanganj road.	6.732	
G-5	Marked on the base of kilometre post 9km which is west side of Demra-Narayanganj road.	7.660	
G-6	Marked on the base of kilometre post 8km on Demra-Narayanganj road.	6.721	
G-7	Marked on the base of kilometre post 7 km. which is west side of Demra-Narayanganj road.	6.506	
G-8	Marked on the base of kilometre post 6 km, west side of Demra-Narayanganj road.	6.729	
G-9	Marked on the base of kilometre post 5 km, west side of Demra-Narayanganj road.	6.940	
G-10	Marked on the base of kilometre post 4km. which is west side of Demra-Narayanganj road.	6.511	
G-11	Marked on the base of kilometre post 3km. west side of Demra-Narayanganj road.	8.016	
G-12	Marked on the base of kilometre post 2 km. west side of Demra-Narayanganj road.	6.415	
G-13	Marked on the manhole which is west side of Demra-Narayanganj road.	6.934	
G-14	Marked on the footpath at Khanpur on Demra-Narayanganj road.	6.312	
B+DB BM	Demra 7.5	6.433	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.	BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.	BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE - H. LINE FROM I.W.T.A.GHAT,NARAYANGONJ.				LINE - H Line from BM.H1 (Bandar,Narayangonj) to BWDB. BM. Kalagachia.				LINE-I : LINE FROM P-5 TO GAUGE STATION DHALKANDI.			
H-1	Marked on the south east corner of Bandar Railway station.	7.395						I-1	Marked on the plinth level of Mosque at Khulmura,south side of road near Tempo workshop.	6.370	
H-2	Marked on the plinth north-west corner of a Pucca house belongs to Nuriddin.	5.968		H-14	Marked on the north east corner of Railway Bridge.	9.508		I-2	Marked on the plinth of Minar of Mosque at Boraria village which is south side of road.	5.314	
H-3	Marked on the south-west corner of Platform of Nabigonj Railway station.	7.869		H-15	Marked on the north east corner of Railway Bridge.	7.548		I-3	Marked on the plinth level of Nayabazar High School which is west side of building and south side of road.	5.251	
H-4	Marked on the bridge west side of Bandar-Madanmura road	6.522		H-16	Marked on the step of stair which is infront of Railway Office.	7.376		I-4	Marked on the top of wall at Joynagar Mosque,which is north side of road.	6.108	
H-5	Marked on the stair of Ghatla west side of Bandar Madanpur road at Ramnagar village.	5.548		H-17	Marked on the step of stair to the entrance of a house belongs to Baten Mollah at Madangonj.	5.432		I-5	Marked on the pucca pillar at Anil Chandra's House at the village Bhawal Rishibari	5.466	
H-6	Marked south east corner of Kutipara Rail station west side of road.	7.744		H-18	Marked on the south west corner of bridge on the Madangonj to Kalagachia road.	6.632		I-6	Marked on the top of stair Abu Taher's at the village Bhwal Monoharie's North side of road.	5.799	
H-7	Marked on the plinth of mosque east side of Bandar-Madanpura road.	5.961		H-19	Marked on the plinth level,north east corner of a Shop of Bachomia.	5.601		I-7	Marked on the plinth of the house belongs to Gourgosh at Gutia village, south side of road.	6.229	
H-8	Marked on the kilometre post 16 km,north side of Dhaka-Chittagong road.	6.051		H-20	On BWDB. BM. at Kalagachia 71	5.355		I-8	Marked on the plinth at Moher Sarkar's house in the village Ranjibpur	5.521	
H-9	Marked on the manhole,north side of Dhaka-Chittagong road.	5.666						I-9	Marked on the plinth of Mosque at the village Munshinda which is 115m north from the road.	6.123	
H-10	Marked on the footpath on Kachpur road.	7.236						I-10	Marked on the top of wall of grave at Hossain Sarang's house at the village Begunbag,north from the road.	6.399	
H-11	Marked on the bridge which is west side of Dhaka-Narsingdi road.	7.209						I-11	Marked on the culvert which is near the house of Anwar Ali at Jagannathpur village.	6.043	
H-12	Marked on the manhole on Dhaka-Narsingdi road.	6.684						I-12	Marked on the top of rice mill at Samad Sarang's House (BWDB BM Kalatia 70)	5.623	
H-13	Marked on the manhole at Taraboo bazar.	6.180									

BM.NO.	Description of Bench Mark Locations	MSL/RL(M)	Remarks.	BM No.	Description of Bench Mark Locations	MSL/RL(M)	REMARKS	BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks
LINE - J : LINE FROM BM C11 TO BM A-17.				LINE- K : LINE FROM BM C-14.				LINE - L : LINE FROM BWDB,BM No.43 AT HARIHARPARA.			
J-1	Marked on the 2nd step of stair which is south side of Asulia Union Parisad Office.	9.315		K-1	Marked on the base north east corner of Power line Tower at at Goshbag which is near by the road.	9.752		L-1	Marked on the Salt tank which is west side of a Rice Mill belongs to Nawab Ali at Baira (Muslim nagar) village.	5.543	
J-2	Marked on the culvert on Asulia-Savar road.	9.897		K-2	Marked on the Platform of Tube-well at Goshbag Mosque.	9.636		L-2	Marked on the north-west corner of mosque of Baira village	5.859	
J-3	Marked on the plinth level South west corner of Chorabag Madrasha.	11.967		K-3	Marked on north east corner of culvert at Narsingpur which is near a Deep Tube-well.	10.664		L-3	Marked on the north west corner plinth level of house belongs to Dil Mohammad at Manurbag village.	5.916	
J-4	Marked on the south west corner at wing wall of culvert which is near Auckpara bazar.	8.354		K-4	Marked on the south west corner of wing wall of a box culvert which is called Gomail Dhanid and Goral Junction.	8.901		L-4	Marked on the north west corner plinth level of the house of Arab Ali at Ainda village.	5.836	
J-5	Marked on the south side of gate of a house belongs to Monana Khatoun near by Asulia-Savar road.	13.750		K-5	Marked on the north east corner tube-well Platform which is the house of Fakirchand at Dhanid Village.	10.187		L-5	Marked on the north west corner of bridge which is near the house of Abu mia at Ainda (East para) village.	6.031	
J-6	Marked on the north west corner of wing wall of culvert on Asulia-Savar road.	8.586		K-6	Marked on the floor south west corner of a shop belongs to Md. Entajuddin which is at Bagbari Madrasha.	9.062		L-6	Marked on the north west corner of bridge which is west side of the village Pangaon (Barahati)	5.399	
J-7	Marked on the west end of culvert near R.V.& P.depos check post.	10.823		K-7	Marked on the south west corner of Surabari Bridge.	8.313		L-7	Marked on the base of Power pole which is on bank of a tank at south side of Dakshin Pangaon village.	3.828	
				K-8	Marked on the plinth level south west corner of Qasimpur Rice Mill Godown.	10.169		L-8	Marked on the plinth level south east corner of Mosque at Kazi ratgram (Eastpara) village.	5.246	
				K-9	Marked on the 1st step of stair to the entrance of BADC Office Building at Qasimpur.	8.767		L-9	Marked on the base of Electric pole which is 50m south from the house of Afsar mia at Brahmanagan (Dignia)	4.830	
								L-10	Marked on Salt tank which is west side of Rice Mill belongs to Nawab Ali at Byara (Muslim nagar) village.	5.805	

<u>B.M.No.</u>	<u>Description of Bench Mark Location</u>	<u>MSL/RL(M)</u>	<u>Remarks.</u>
<u>LINE-'M'- LINE FROM BM A14</u>			
M-1	Marked on the plinth level North west corner which is in front of the shop belongs to Sobhan at Savar Bus Stand.	9.219	
M-2	Marked on the South west corner of wing wall of bridge on Barakakor Road which is about 1 km east from Savar Bazar at Rajasan village.	7.630	
M-3	Marked on the base of Electric pole which is about 1 km east from the BM M/2 and is 10m west from the house of Motiur Rahman Daroga at Rajasan Village.	10.826	
M-4	Marked on the south west corner of bridge which is 100m east from Marhaba Synthitic Mills Limited at Rajasan Village.	9.809	
M-5	Marked on the south west corner of front Verandha of Kalinkoir Ali Madrasna.	13.965	
M-6	Marked on the bottom step of stair Prabati Samaj Kalyan Samity Building which is near by Arakan High School.	13.716	
M-7	Marked on the bottom step of stair which is front side of Samair Upashasta Kendra.	13.103	
M-8	Marked on the south west corner of Boundary wall of Mosque which is west side of Barakakor Ferry ghat.	9.117	
M-9	Marked on the north west corner of culvert which is about end portion of Barakakor village.	3.939	

<u>BM.No.</u>	<u>Description of Bench Mark Location.</u>	<u>MSL/RL (M)</u>	<u>Remarks.</u>
<u>LINE - N1 : LINE FROM B.W.D.B.M. NAYARHAT.</u>			
N-1/1	Marked on the north west corner of great Beam of 'KEY' point (Constructed to cross the river) of Titas Gas Line which is at left bank of Bangshi River.	8.894	
N-1/2	Marked on the floor at the entrance of Paribar Parikalpana Kendra which is near Ghughudia Adharsa High School in Pathalia Union.	8.027	
N-1/3	Marked on the plinth level at middle of West side wall of building belongs to Abdul Latif Mia of Ghughudia village.	8.212	
N-1/4	Marked on the base of pipe which is fixed for the mike for 'Ajan' at the mosque of Sinduria village which is at the left bank of river.	7.688	
N-1/5	Marked on the North west corner of Tube well Platform which is north east side from the house of Abdul Halim at Sinduria village.	7.826	
N-1/6	Marked on the north side of tube-well platform which is west side from the house of Mokados Bepari at Molnkar Tek Village.	7.171	
N-1/7	Marked on the step of stair of a building belongs to "Desh Poultry Limited" at the village Baktarpur.	7.100	
N-1/8	Marked on the bottom of south wall Fish Wholesale house at Savar Market.	6.657	

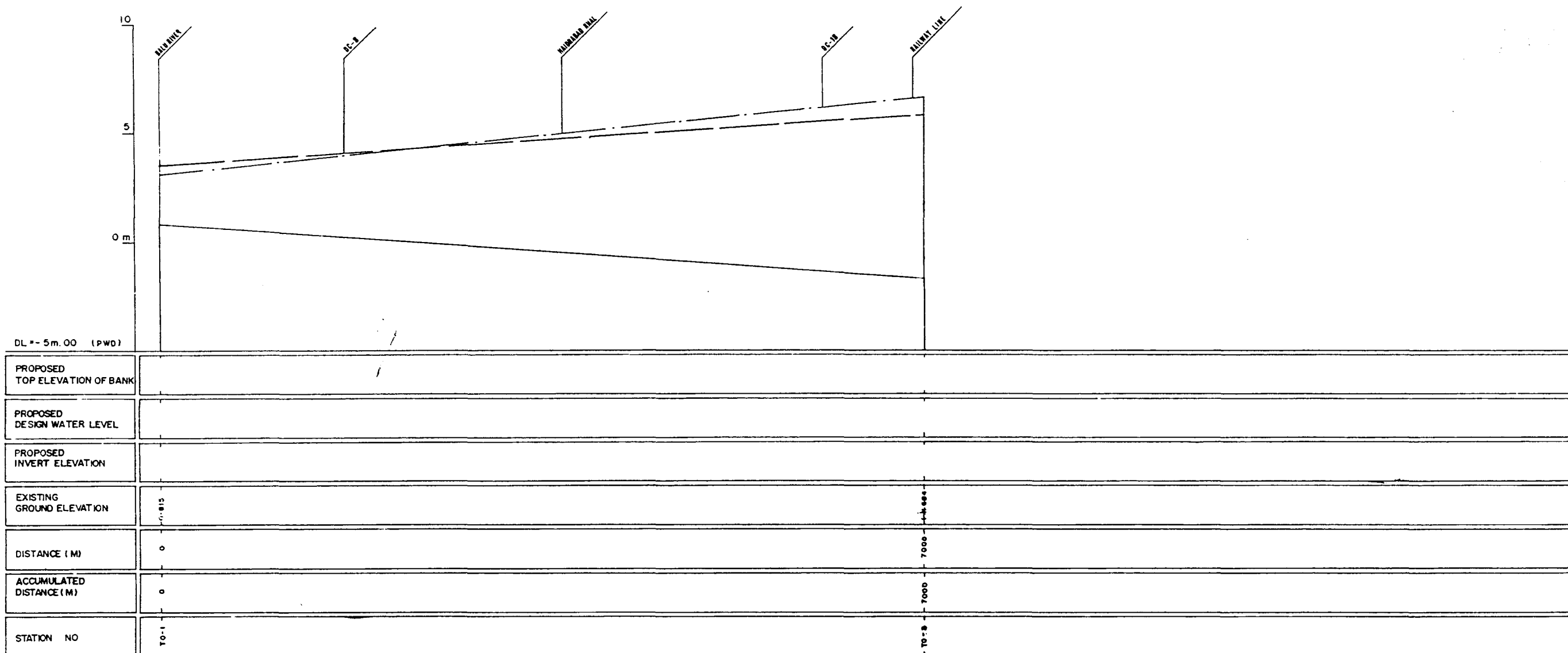
<u>BM.No.</u>	<u>Description of Bench Mark Locations</u>	<u>MSL/RL(M)</u>	<u>Remarks.</u>
<u>LINE - N2 :</u> <u>LINE FROM B.W.D.B.M. SAVAR TO BM A-10.</u>			
N2-1	Marked on the floor south-west side to the entrance door in the house of Alauddin mia at the village Kaltarpur.	7.633	
N2-2	Marked on the step of stair of Rest house at Kaunapara which is near by Trimohana of river and is left bank of Bangsi River.	8.331	
N2-3	Marked on the step of stair to the east side entrance of a building belongs to Rajamia at the village Panpara.	7.546	
N2-4	Marked on the floor level, west side of door of Tiptop Laundry at Raj Fulbaria Bazar which is at left bank of Bangsi river.	8.059	

<u>BM.No.</u>	<u>Description of Bench Marks Location.</u>	<u>MSL/RL(M)</u>	<u>Remarks.</u>
<u>LINE- P: LINE FROM BM A-18 TO N-1/5.</u>			
P-1	Marked on the step of stair south-east entrance to the Kamaluddin Hall in Jahangirnagar University at Savar.	9.839	
P-2	Marked on the plinth level at south verandha of a house belongs to Hossain Member at the village Giroa.	11.471	
P-3	Marked on the step of stair to the entrance of Mirer Tek Mosque.	7.943	
P-4	Marked on the base of Power pole which is east side of Power Sub-station.	7.461	

2.3 RIVER

TONGI RIVER
KARANATALI RIVER
BALU RIVER
TURAG RIVER
HYDRABAD RIVER

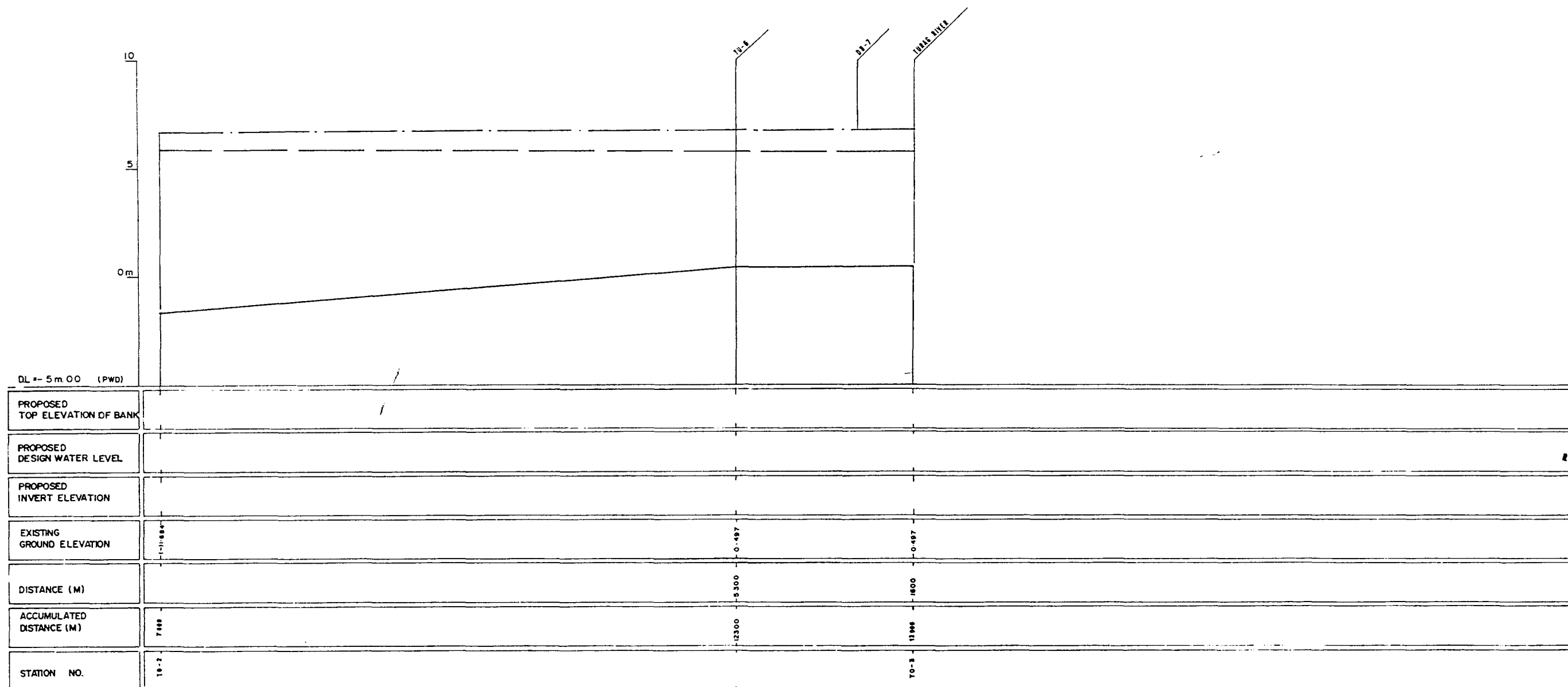
Note: The drawings were scaled down to 50% from the original drawings.



LEGEND
 EXISTING LEFT GROUND LINE - - - - -
 EXISTING RIGHT GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 ARROW FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF RIVER			
TONGI RIVER		SCALE	H:V: 20000 1:100
DWG NO	TOR L I	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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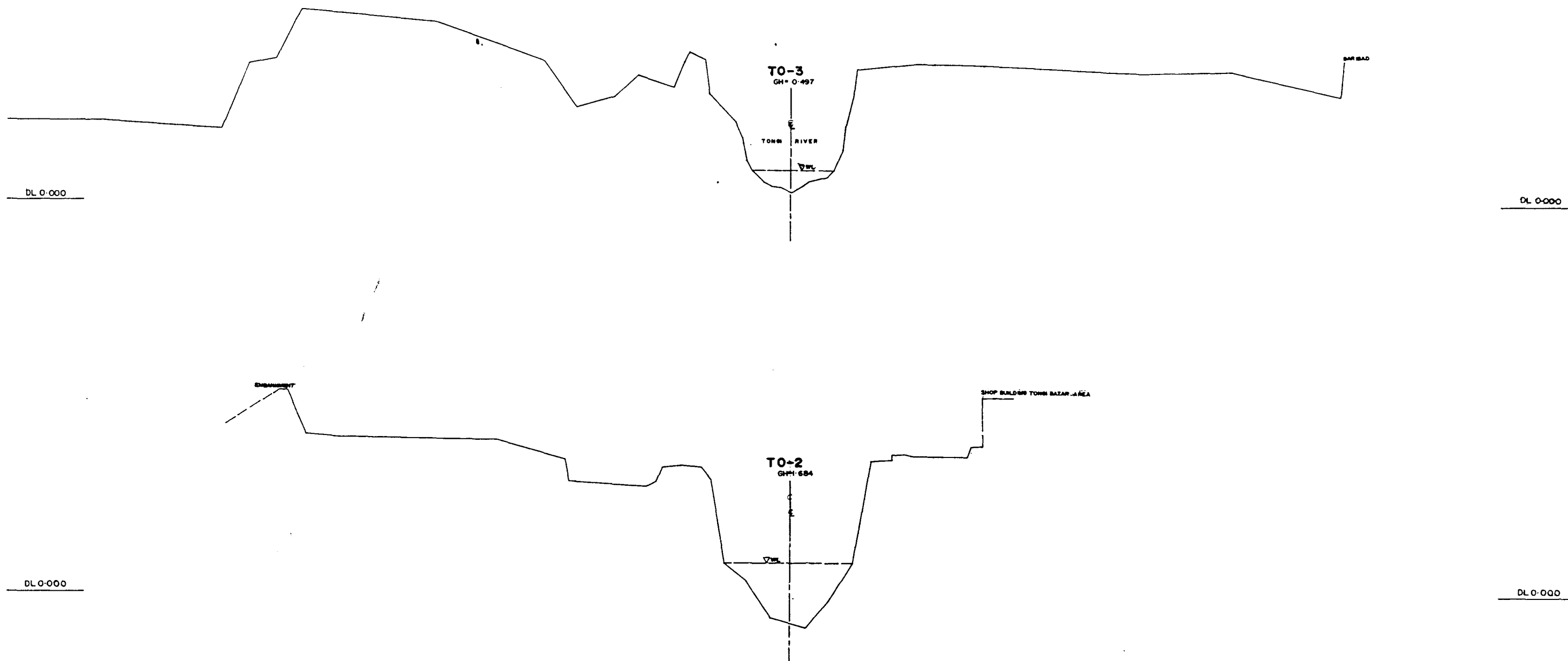
LEGEND
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EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF RIVER

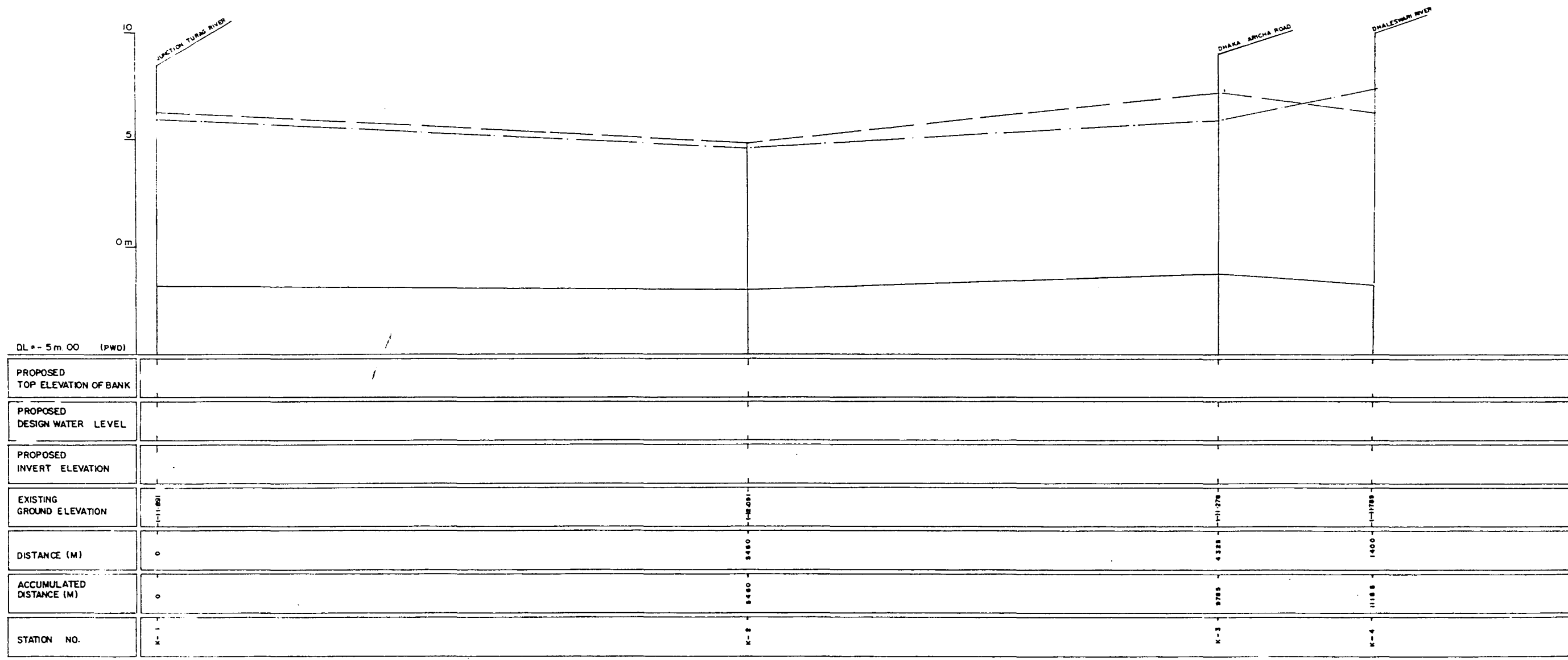
TONGI RIVER		SCALE	H 1:20000 V 1:100
DWG NO	TOR L 2	DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



• L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
TONGI RIVER		SCALE	H=1:1000 V=1:500
DWG NO	TOR CI	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

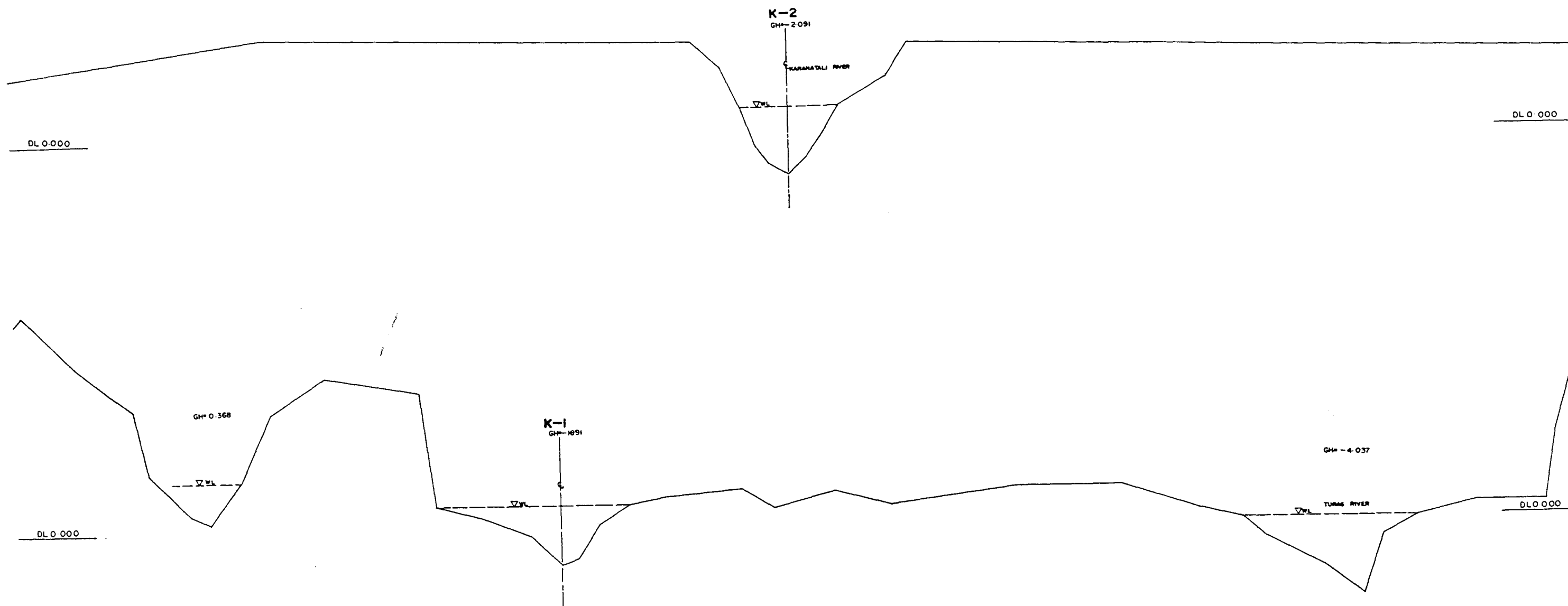


LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM

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

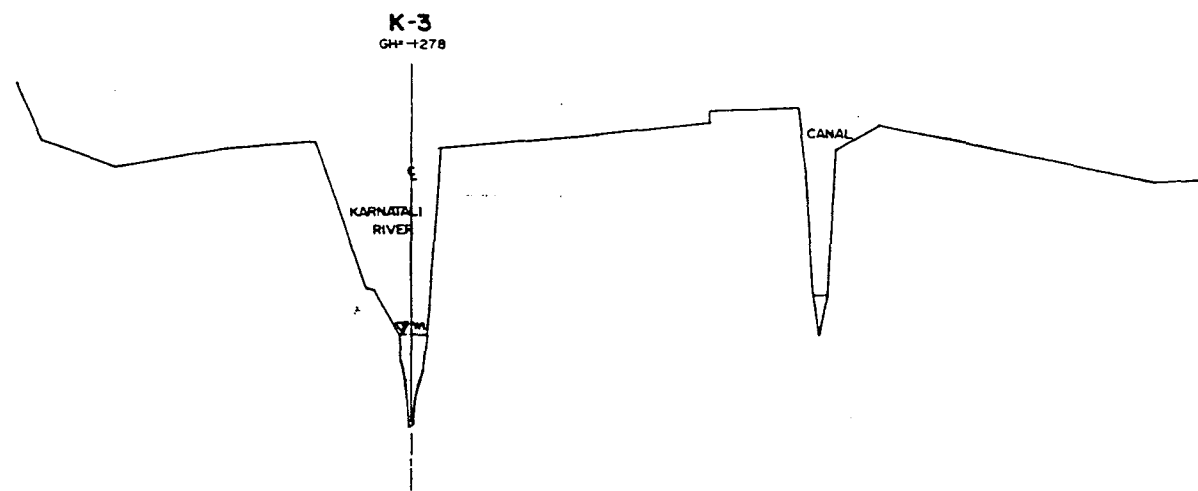
KARANATAJI RIVER	SCALE	H 1:20000 V 1:1000
DWG NO. KR L1	DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
KARAMATULI & TURAG RIVER		SCALE	H: 1:1000 V: 1:100
DWG NO. KRC1		DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			

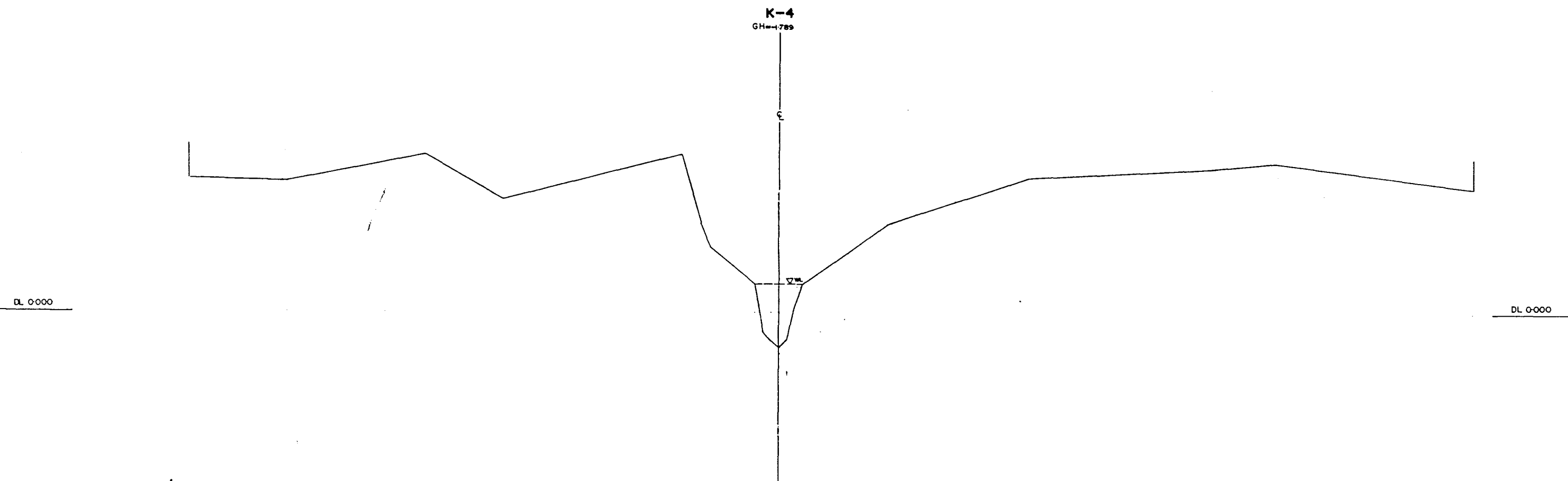


DL 0.00

DL 0.00

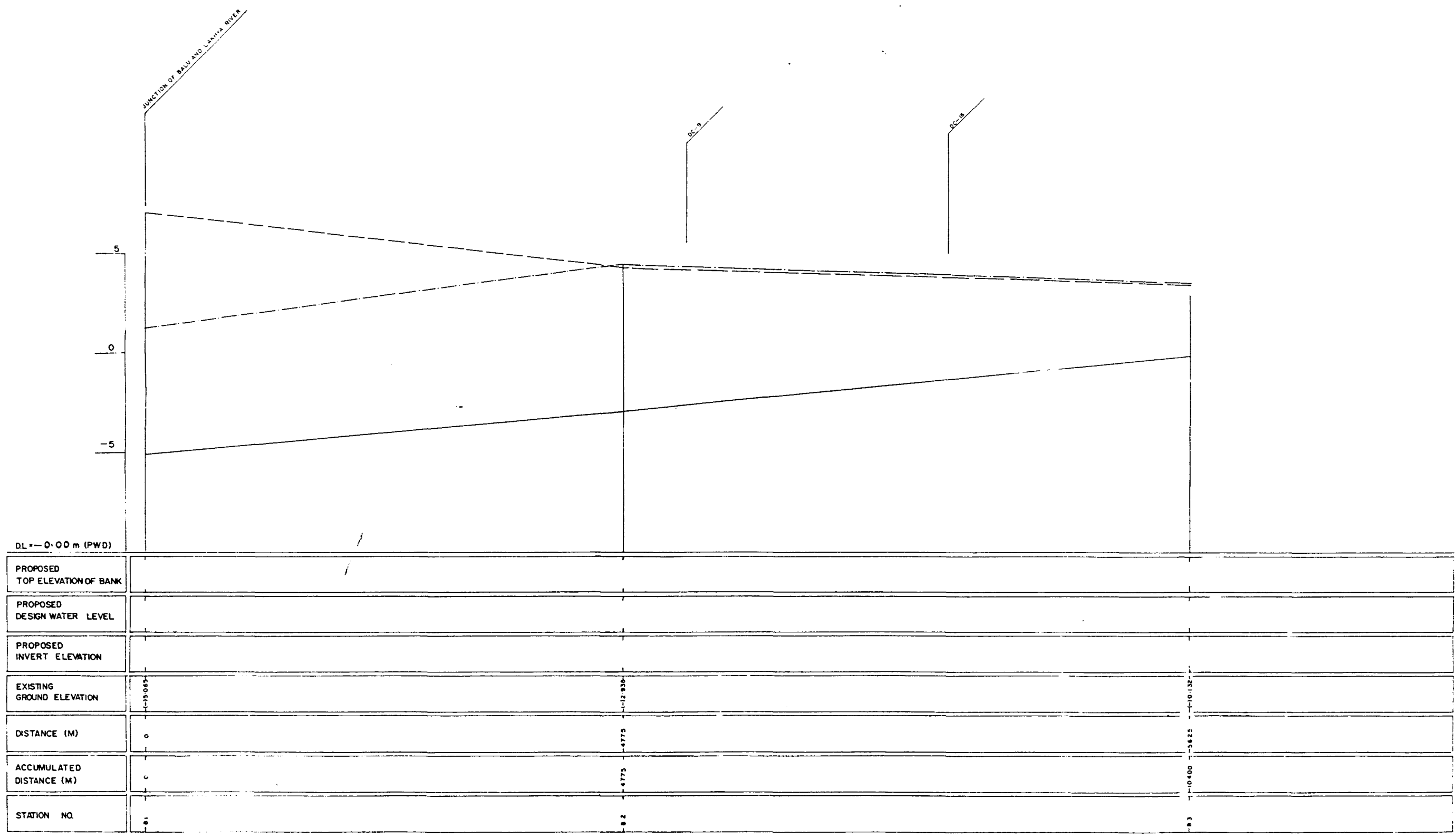
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
. (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
KARNATALI RIVER	SCALE	H=1:500 V=1:100	
DWG NO	KR C2	DATE	Marh 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



•L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
KARANATALI RIVER		SCALE	H=1:1000 V=1:100
DWG NO	KR C3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



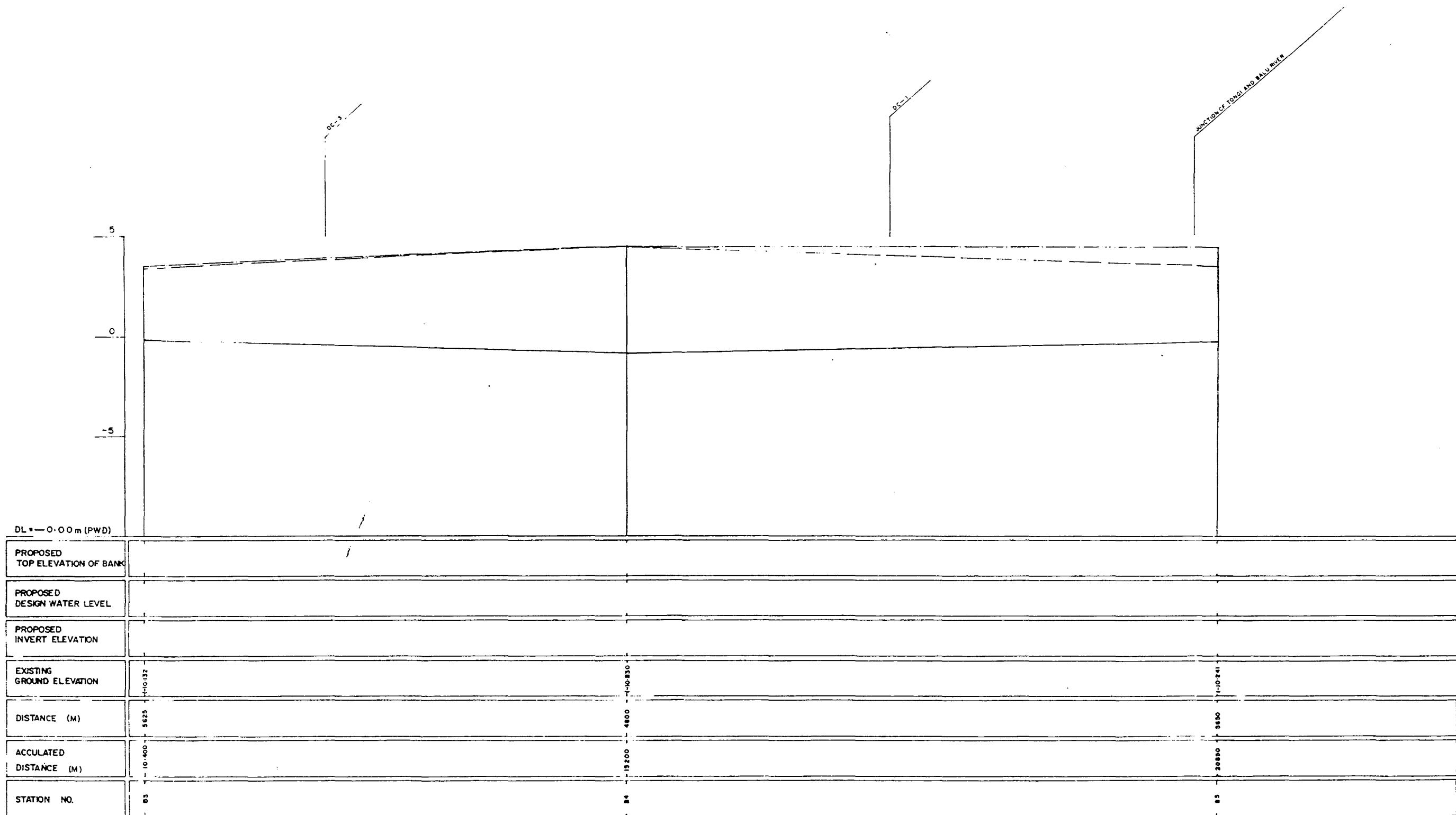
LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

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

BALU RIVER	SCALE	H: 1:20000 V: 1:100
DWG NO. BR L1	DATE	March '99

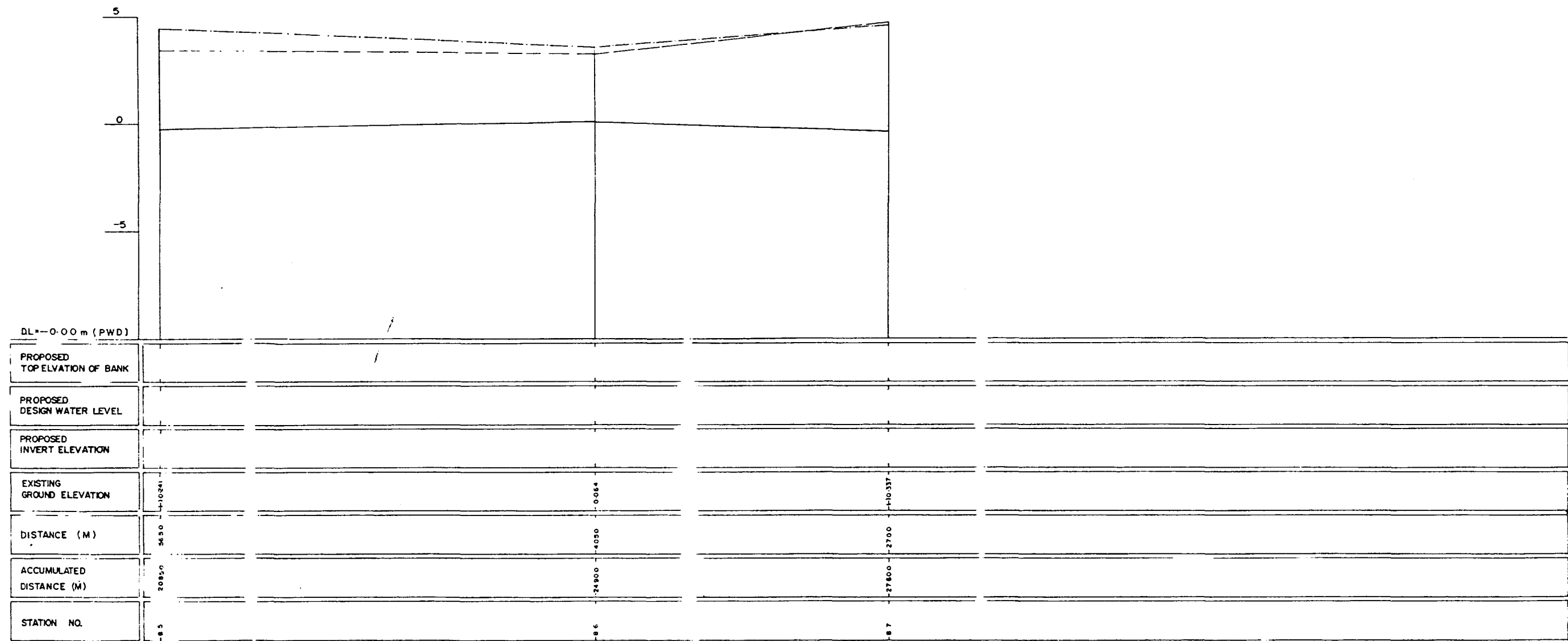
JAPAN INTERNATIONAL COOPERATION AGENCY

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LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NOBA			
DHAKA METROPOLITAN AREA LONG SECTION OF RIVER			
BALU RIVER		SCALE	H 1:20,000 V 1:100
DWG NO	BR L2	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING L.F. GROUND LINE - - - - -
EXISTING R.F. GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF RIVER

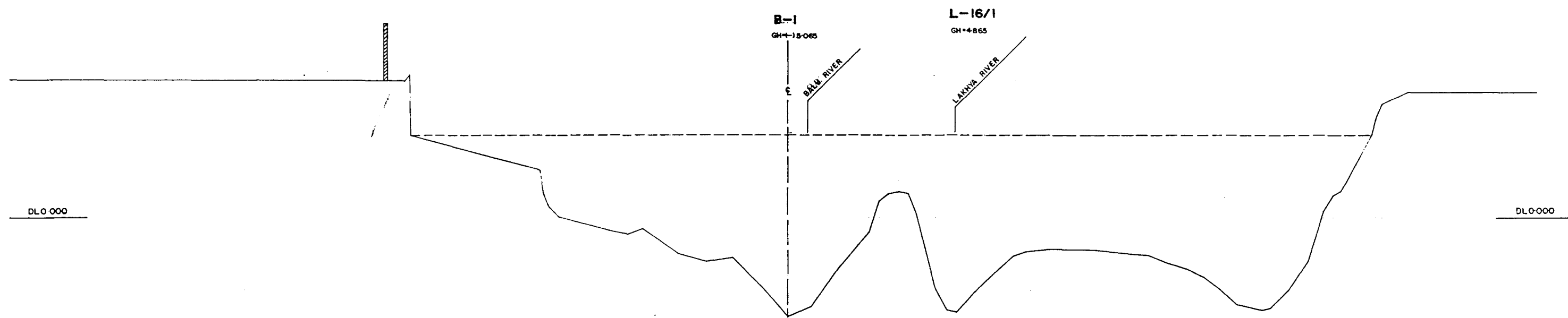
BALU RIVER

SCALE
H : 20000
V : 100

DATE
March 1991

DWGNO
BR L3

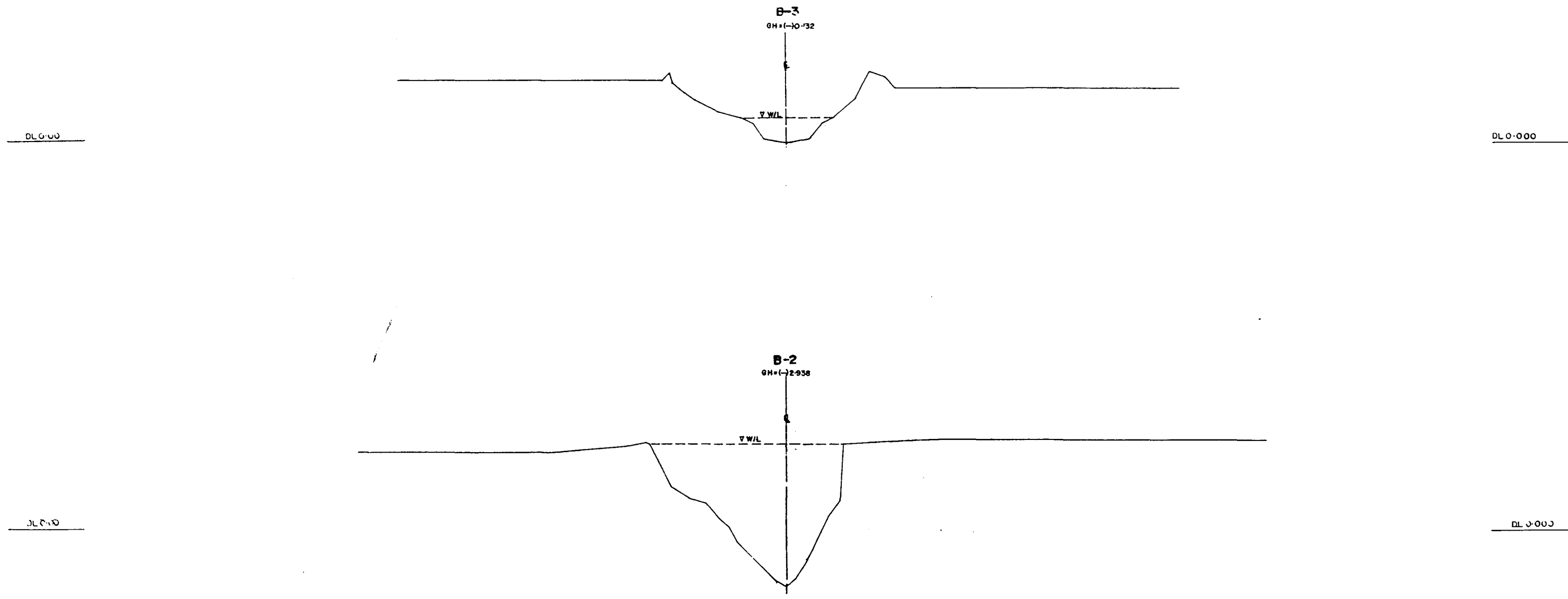
JAPAN INTERNATIONAL COOPERATION AGENCY



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF RIVER			
BALU & LAIKHYA RIVER	SCALE	H=1:5000 V=1:100	
DWG. NO.	BR. CL.	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

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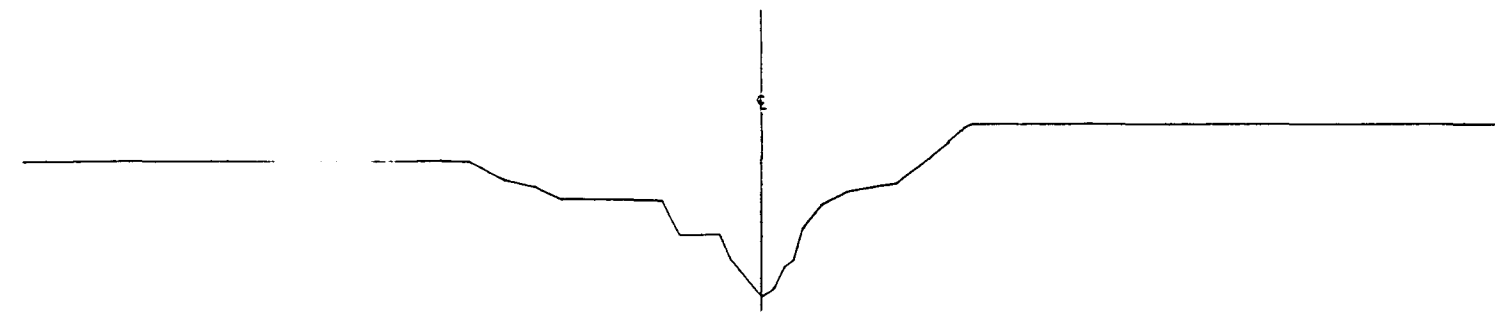


* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF RIVER			
BALU RIVER	SCALE	H=1:1000 V=1:100	
DWG NO	BR C2	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

B-5

GH = (-) 0.241

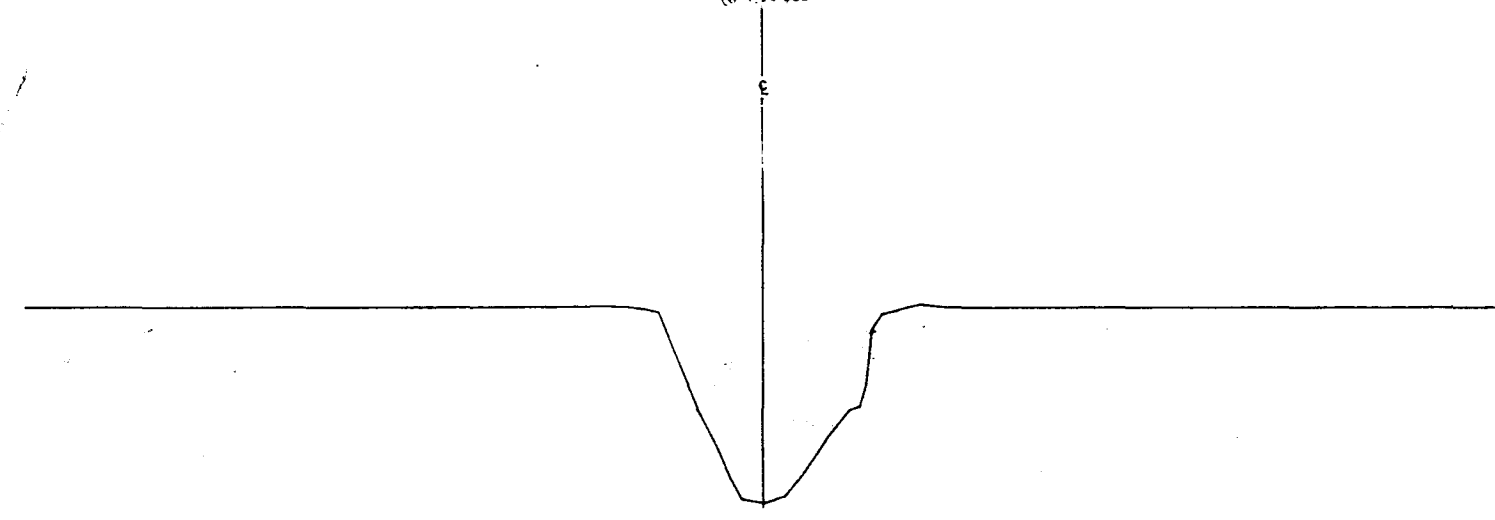


DL 0.000

DL 0.000

B-4

GH = (-) 0.830



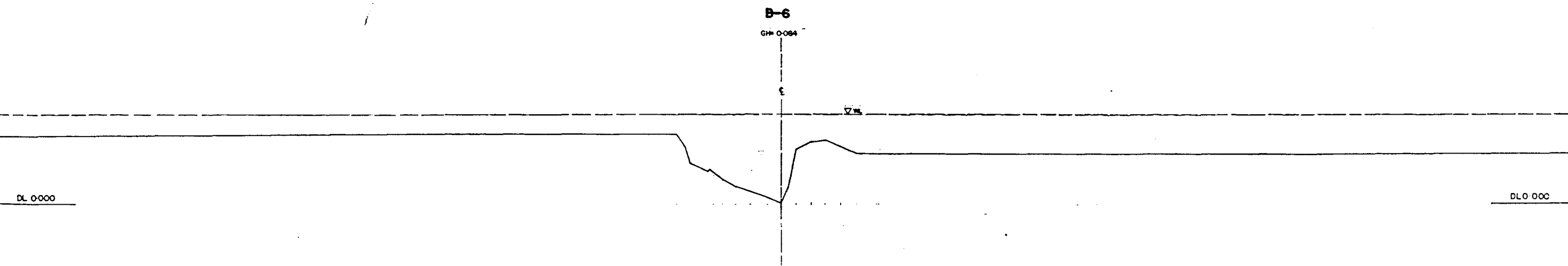
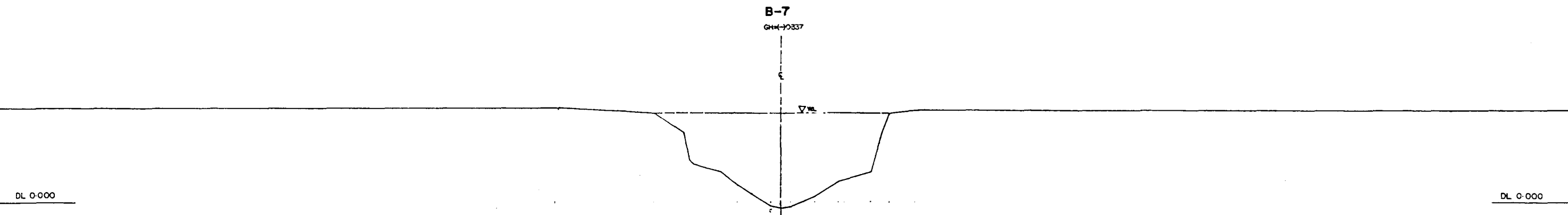
DL 0.000

DL 0.000

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
BALU & TONGI RIVER		SCALE	H=1:1000 / V=1:100
DWG.NO.	BR C3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

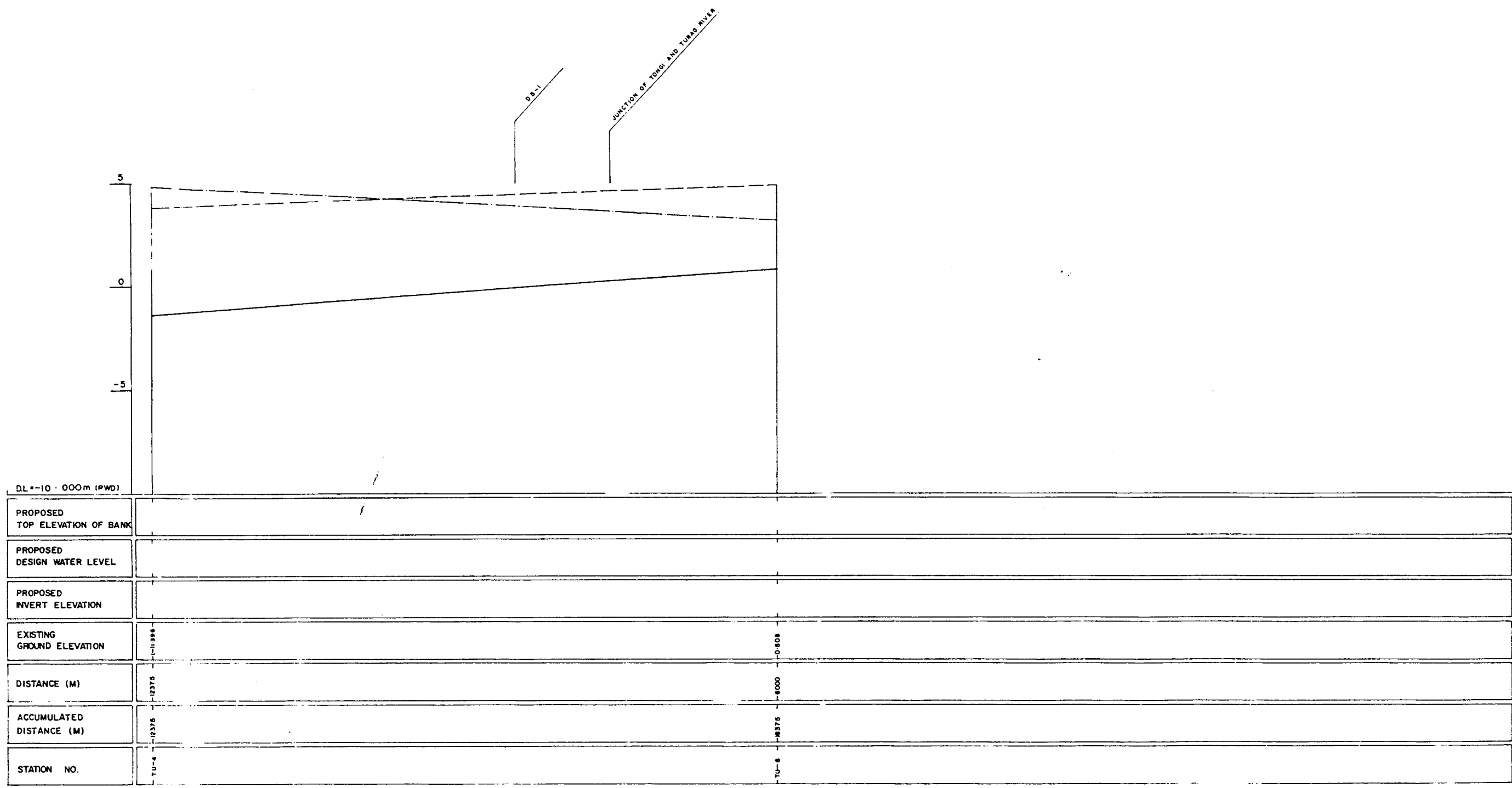
80



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
[STUDY IN DHAKA METROPOLITAN AREA]			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
BALU RIVER		SCALE	H=1:1000 V=1:100
DWG. NO.	BR C4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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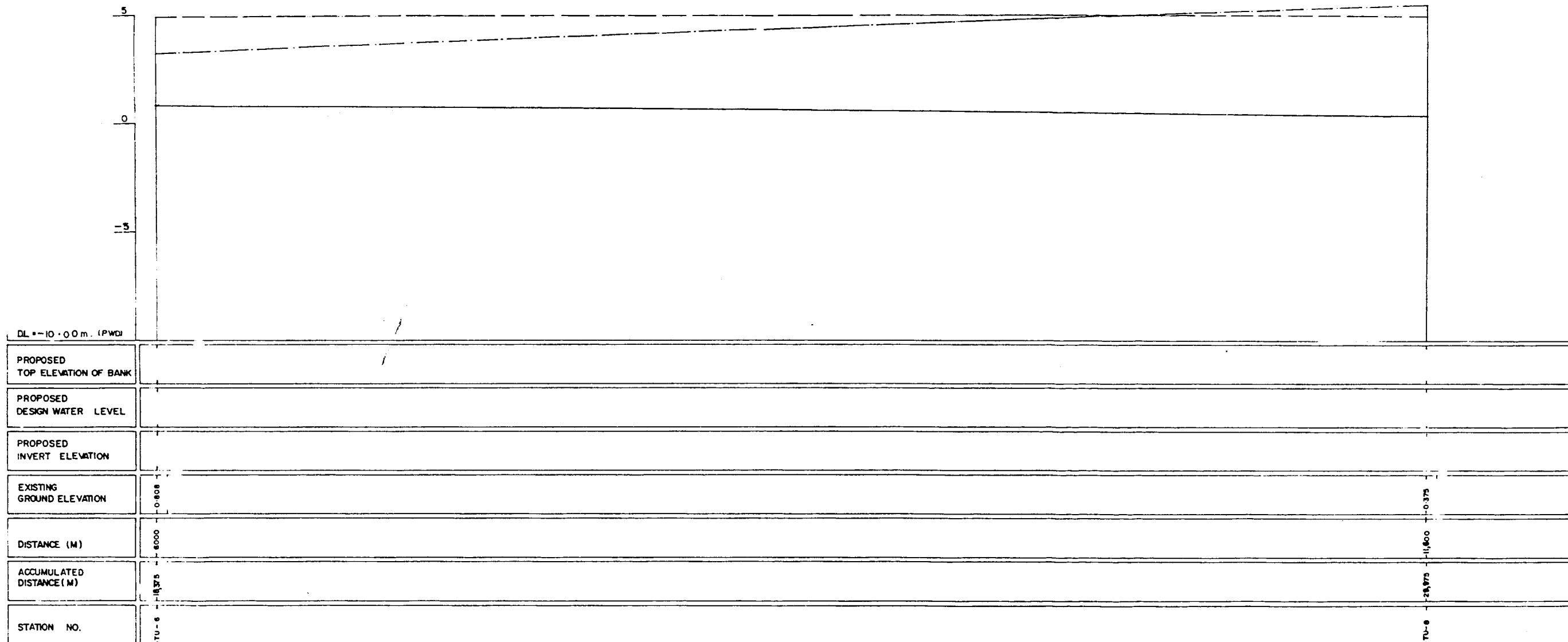


LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STEAM

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

TURAG RIVER		SCALE	H : 20000 V : 100
DWG NO	TR L2	DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



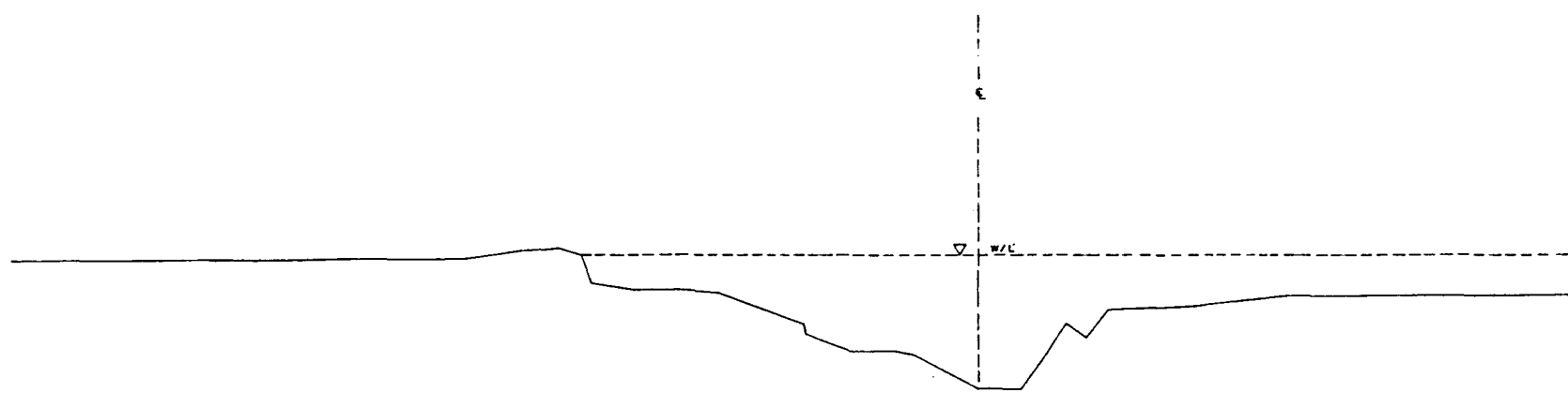
LEGEND
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EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

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

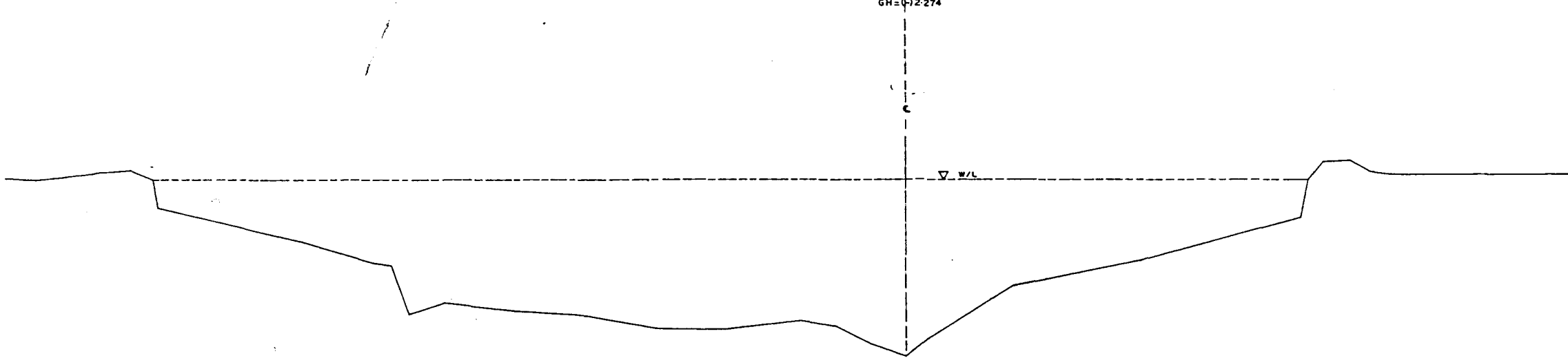
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DWG NO	TR L3	DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

TU-6
GH = 0.808

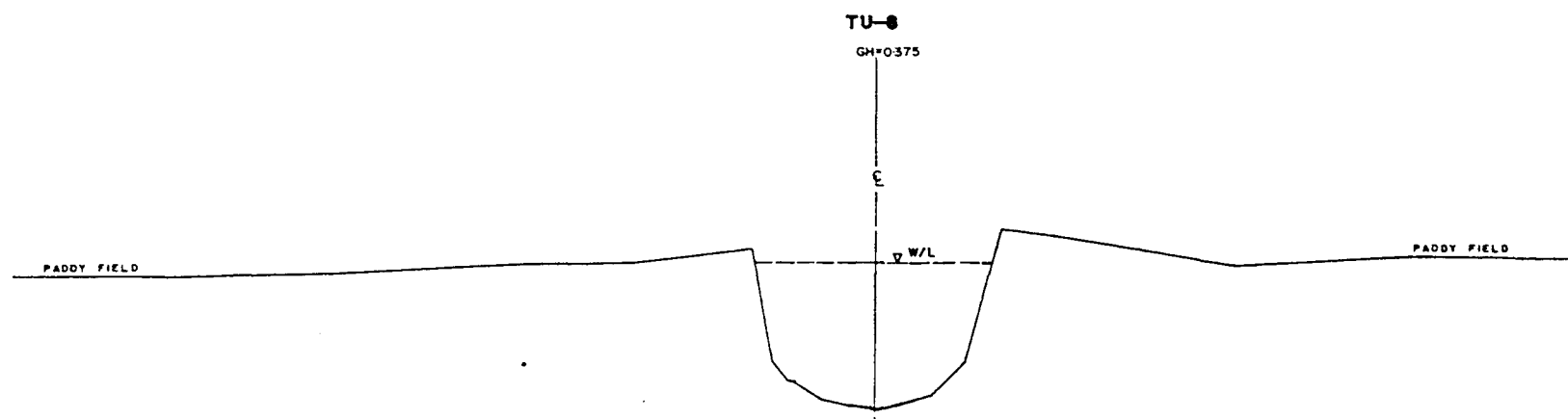


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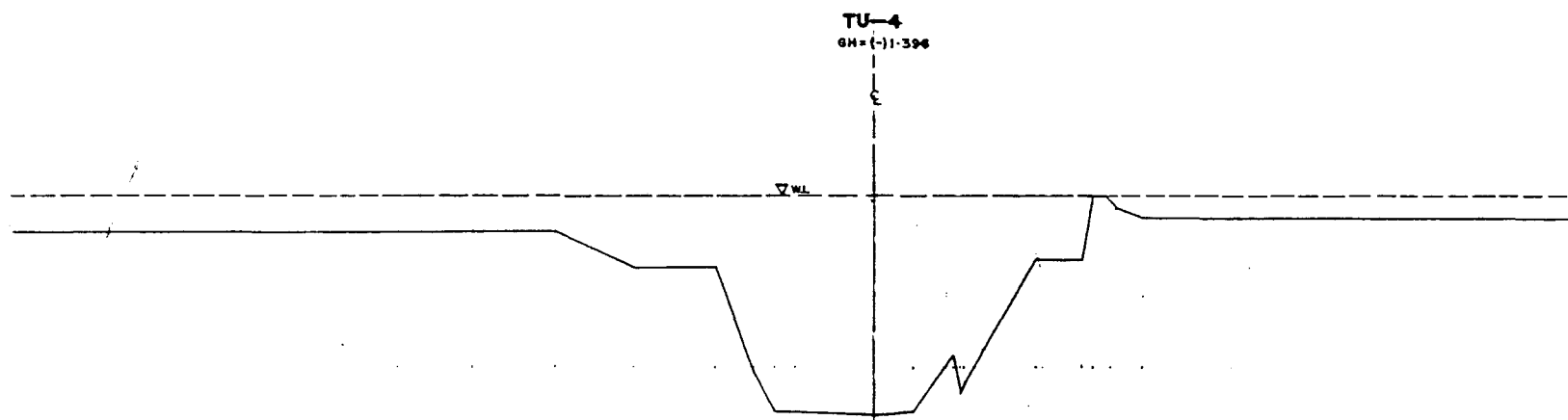


L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
TURAG & TONGI RIVER		SCALE	H=1:1000 V=1:100
DWG. NO.	TR C 1	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



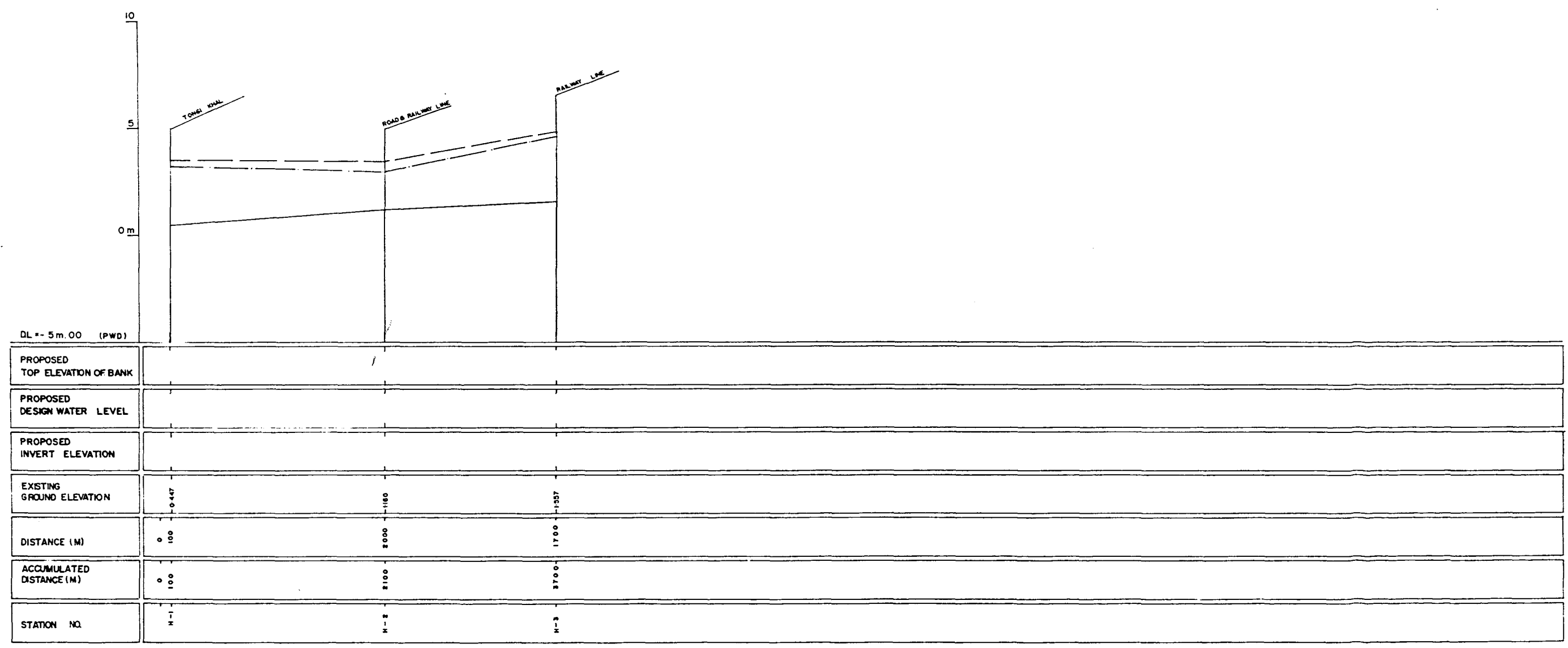
DLO000



DLO000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
TURAG RIVER		SCALE	H=1:1000 V=1:100
DWG. NO.	TR C2	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
*L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF RIVER

HYDRABAD KHAL

SCALE

H:V 20000
1:100

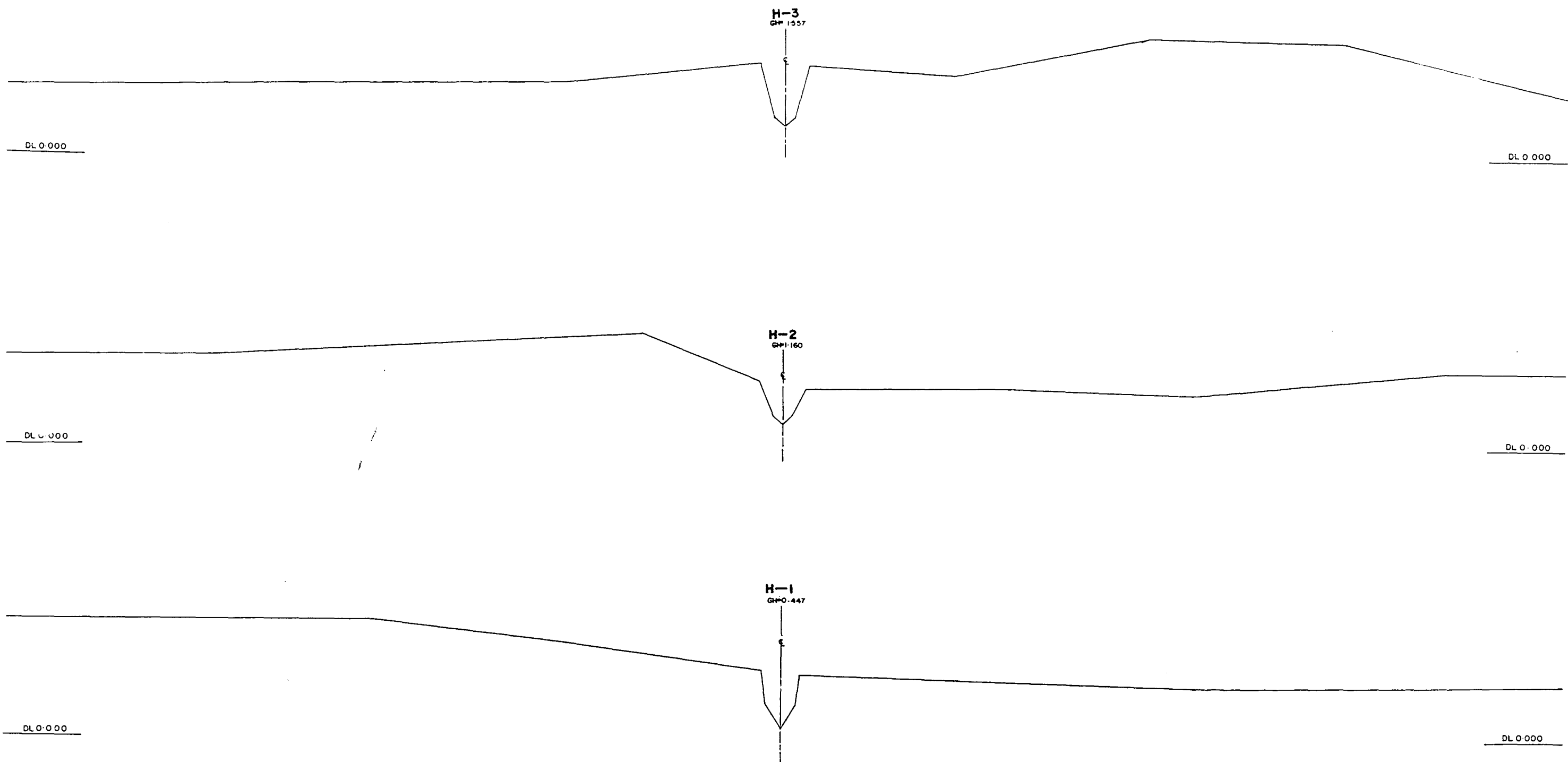
DWG NO

HR L1

DATE

MARCH 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



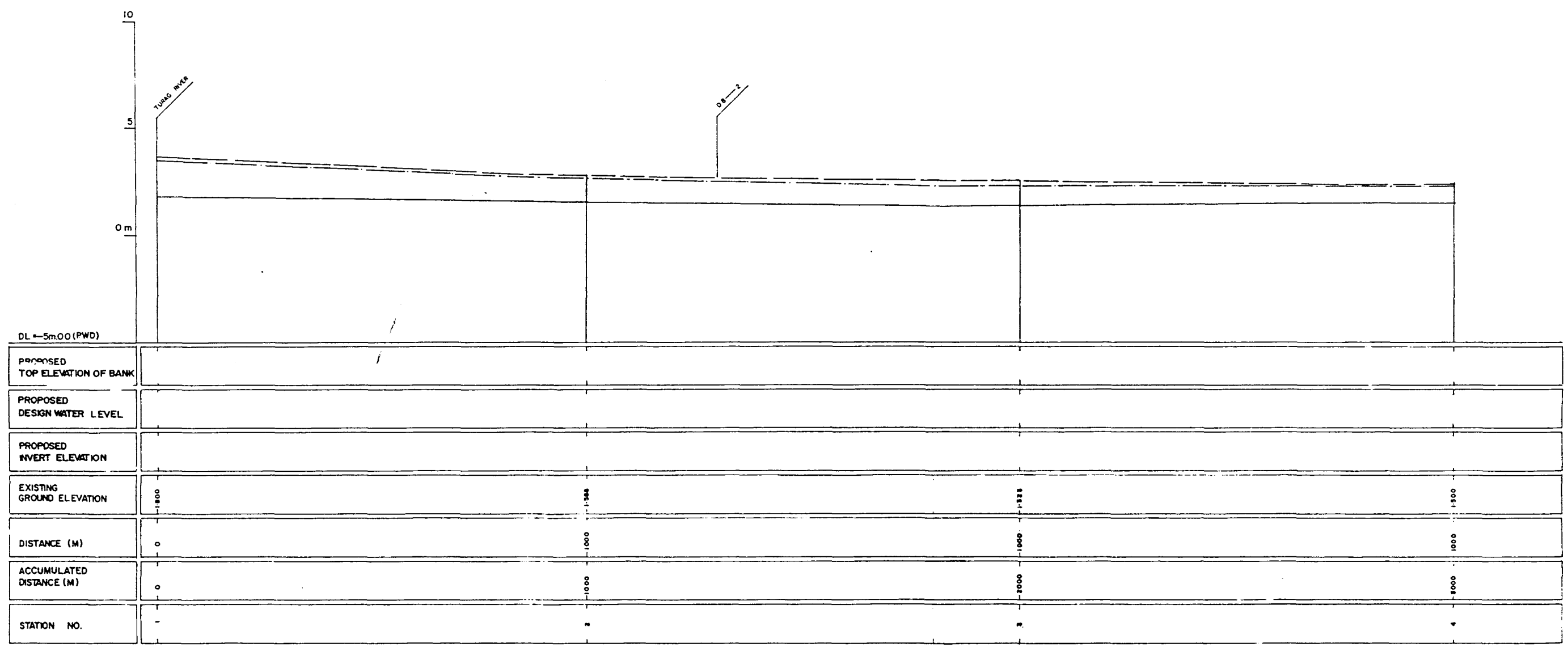
#L/R FACING TO UPSTREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
HYDRABAD KHAL		SCALE	H:V: 10:1
DWG NO	HR CI	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

2.4 CANALS (KHALS)

GREATER DHAKA (DB-1~DB-18)
NARAYANGANJ (N-1~N-21)
KERANIGANJ (K-1~K-9)

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



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
*L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

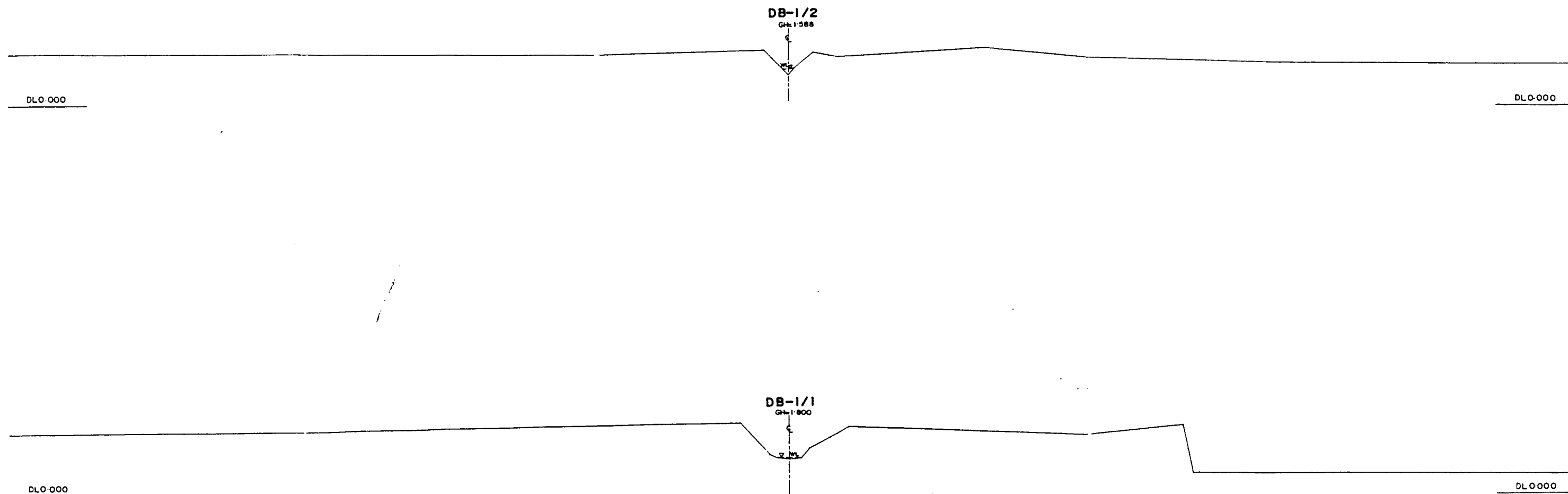
DB-1

SCALE: H 1:5000, V 1:100

DWG. NO. KG LI, DATE March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

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▲L/R FACING TO UP STREAM

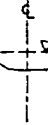
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DB-1		SCALE	1:100 V.H. 100
DWG NO	KG C I	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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DB-1/4
G+1500

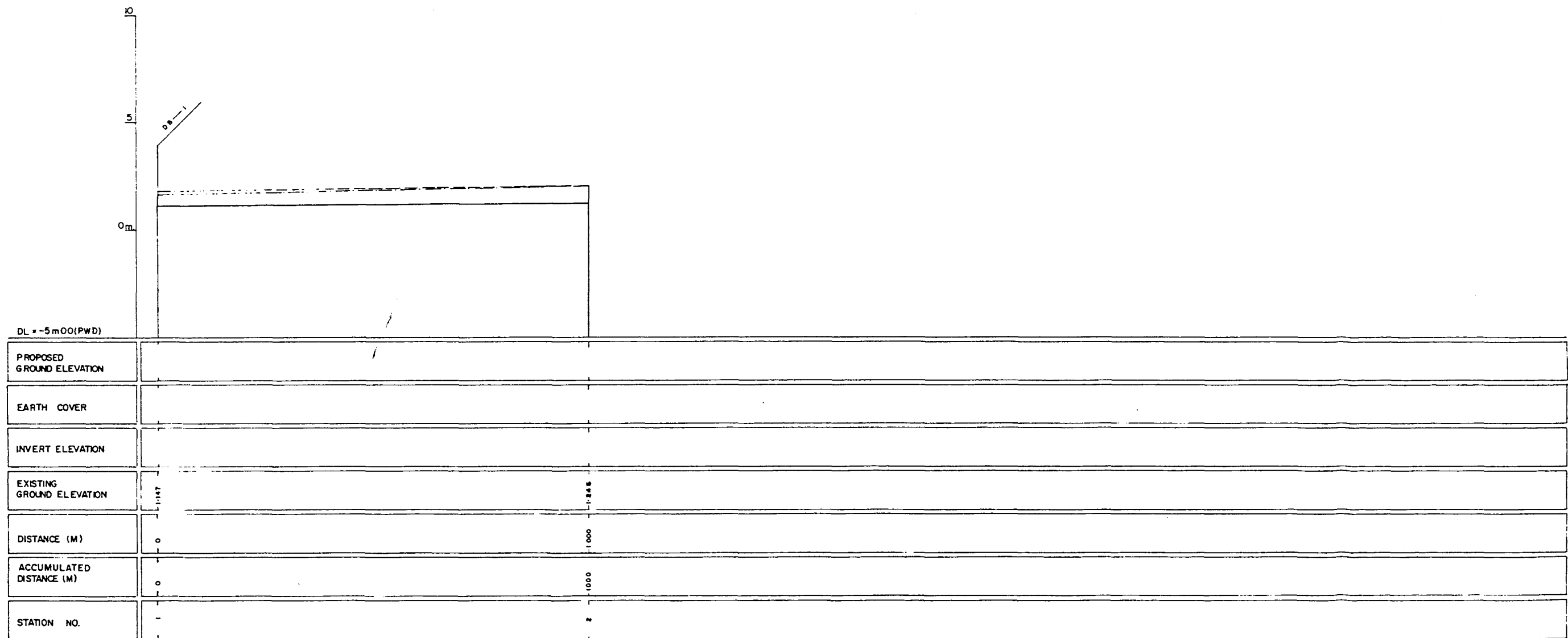


DB-1/3
G+1325



L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DB-1		SCALE	H=1:200 V=1:100
DWG NO	KG C2	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



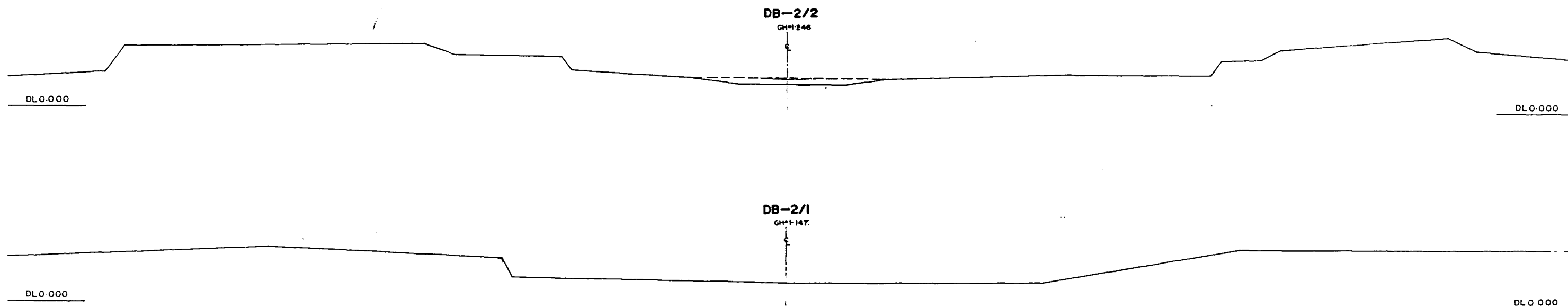
LEGEND
EXISTING LEFTGROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
•L/R FACING TO UP STREAM

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

DB-2		SCALE	H=1:5000 V=1:100
DWG NO	KG L2	DATE	March 1991

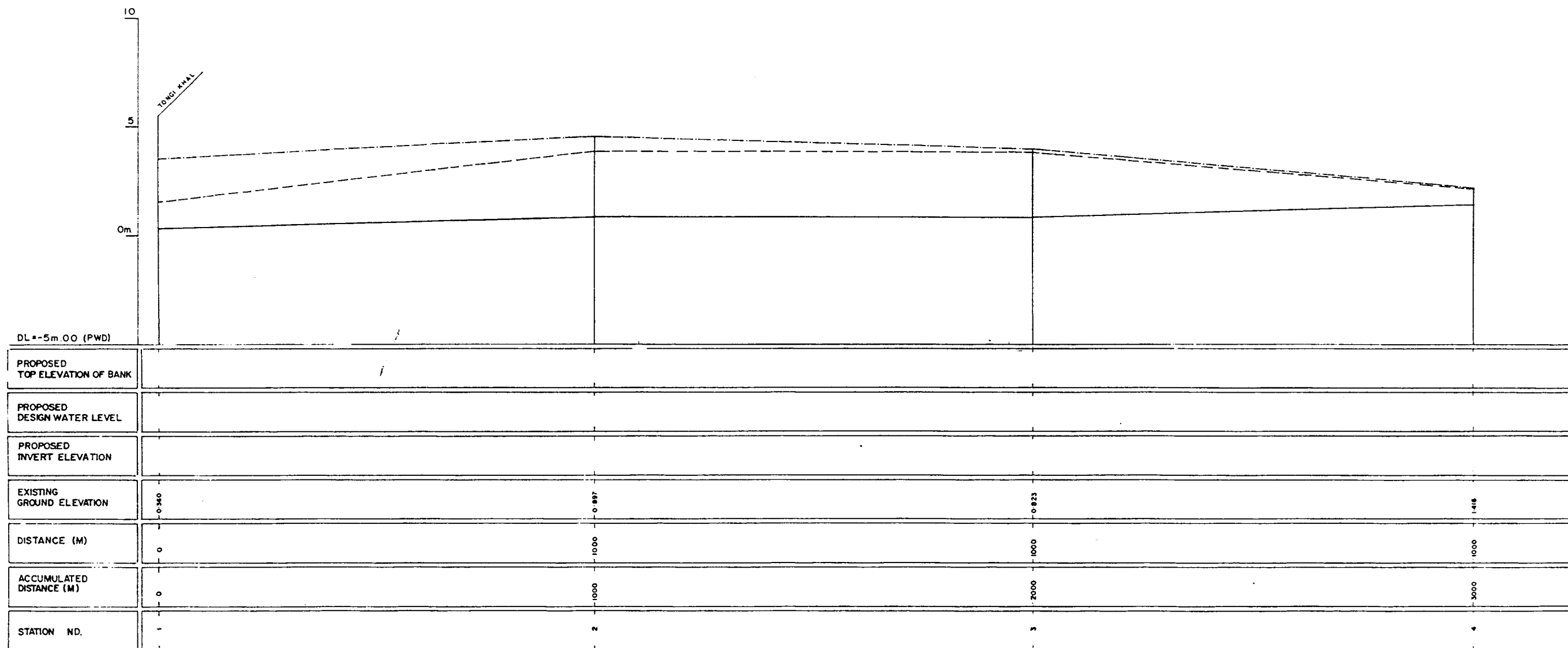
JAPAN INTERNATIONAL COOPERATION AGENCY

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*L/R FACING TO UP STREAM

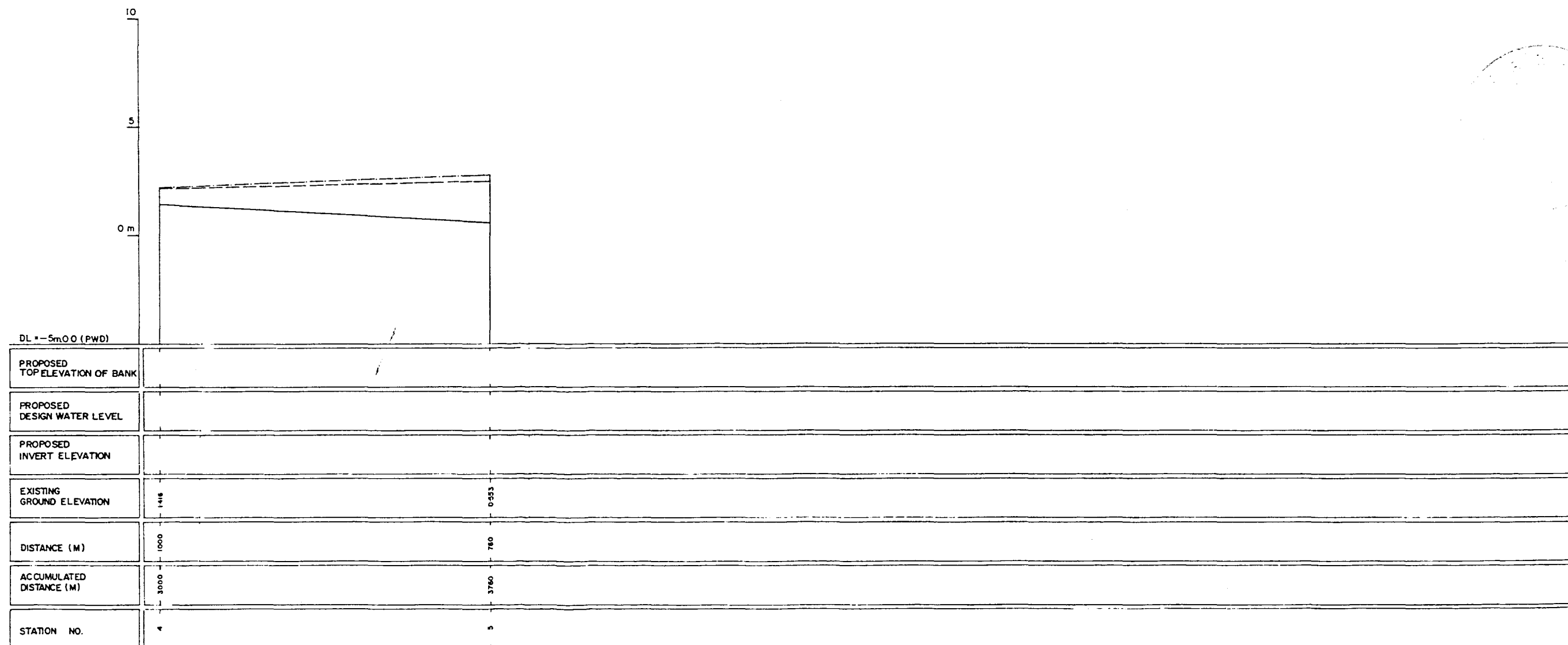
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-2		SCALE	H=1:200 V=1:100
DWG NO.	K.G.C-3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - . - . -
EXISTING BOTTOM LINE - - - - -
L/R - FACING TO UP STREAM
*

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA I			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DB-3		SCALE	H=1:5000 V=1:100
DWGNO	KG L3	DATE	March 1991
JAPAN INTERNATIONAL CO-OPERATION AGENCY			

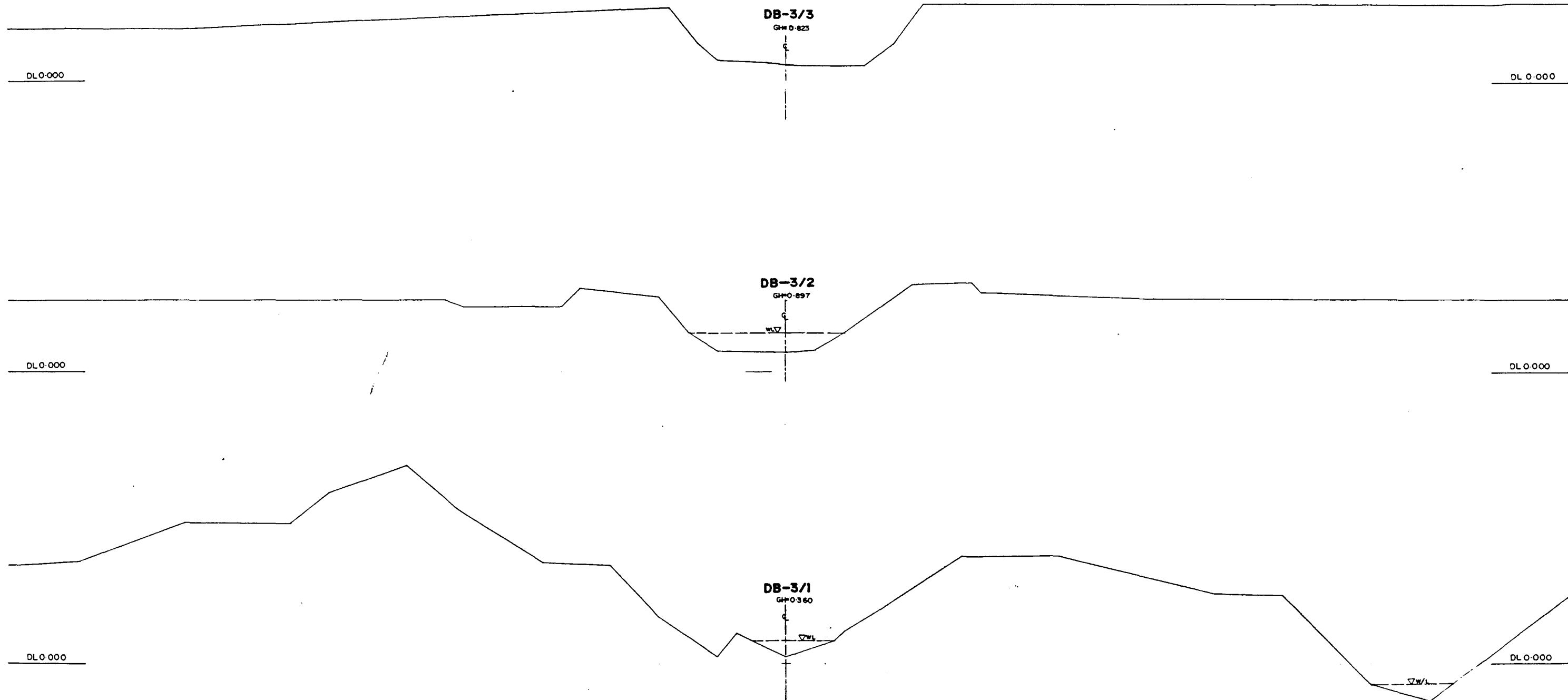
22



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA I) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DB-3		SCALE	H 1:5000 V 1:100
DWG NO	KG L4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

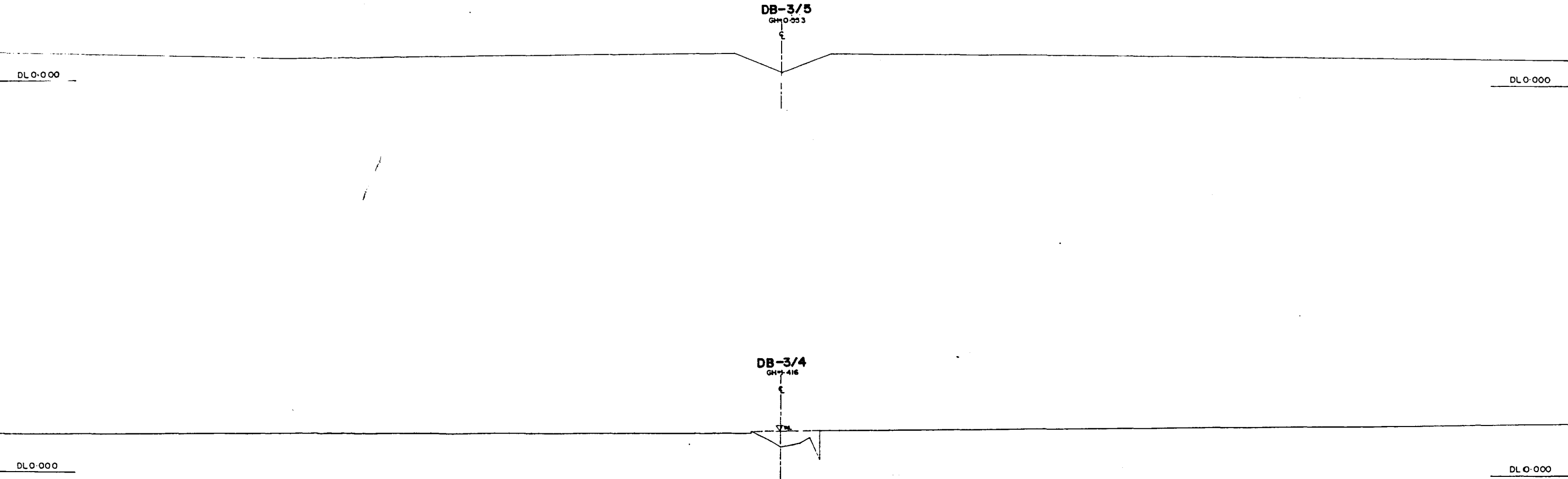
81-3



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
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DWG NO	MS.C.4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

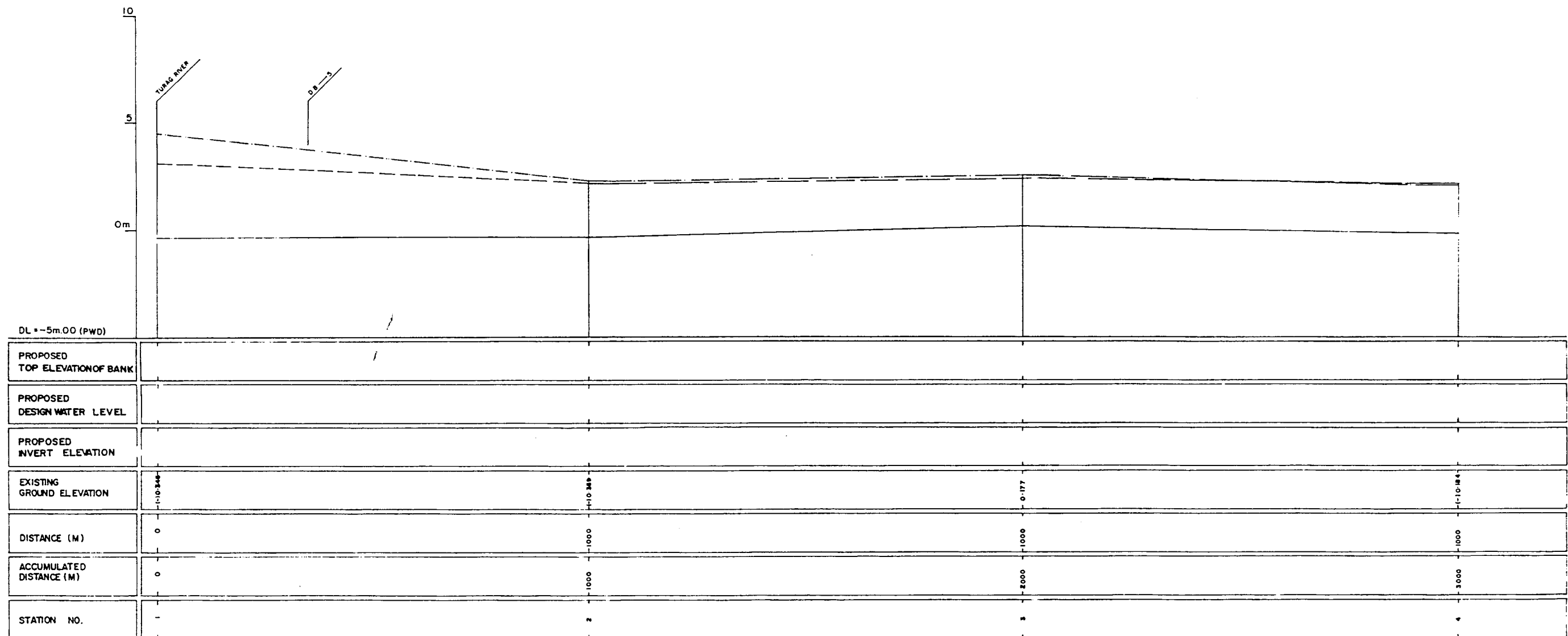
179



* L/R-FACING TO UP STREAM.

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-3		SCALE	N=1:200 V=1:100
DWG NO	KG C 5	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

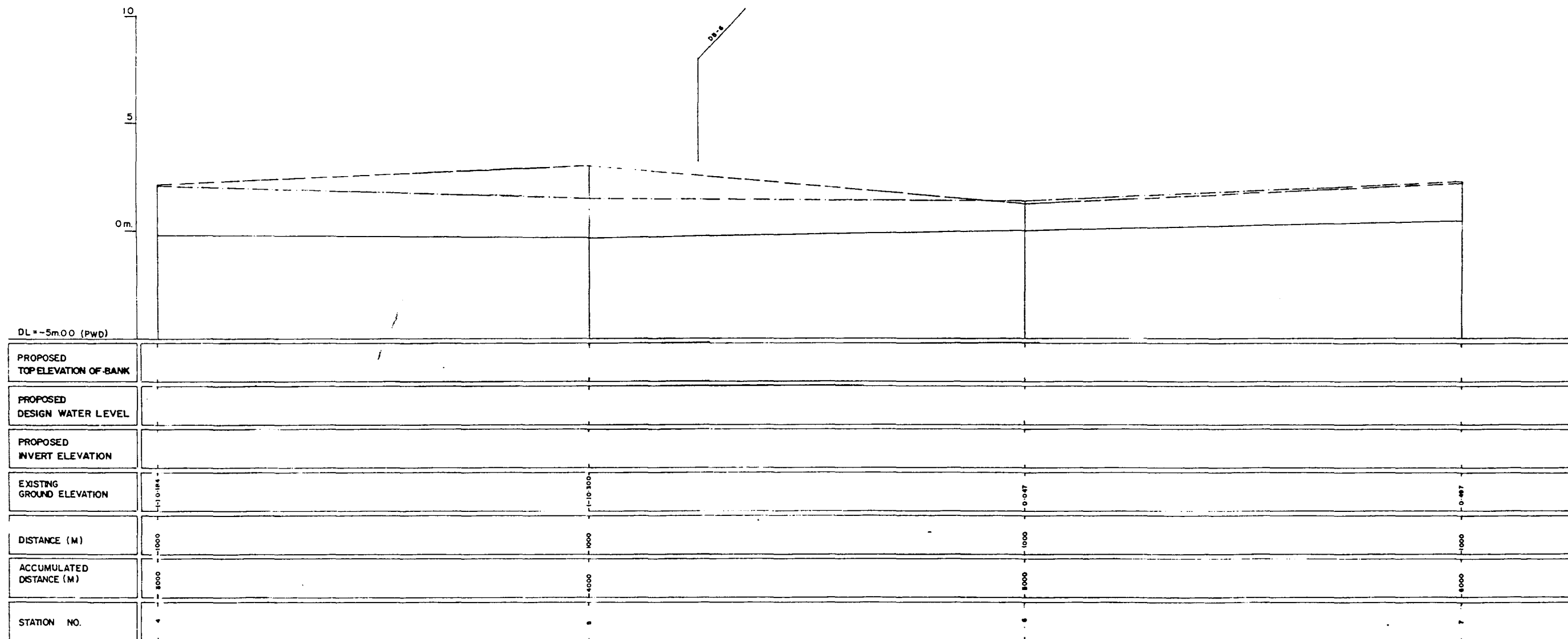
95



LEGEND
EXISTING LEFT GROUND LINE ————
EXISTING RIGHT GROUND LINE ————
EXISTING BOTTOM LINE ————
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NOBA			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DB-4		SCALE	H: 5000 V: 100
DWG NO	KG L5	DATE	March '99
JAPAN INTERNATIONAL COOPERATION AGENCY			

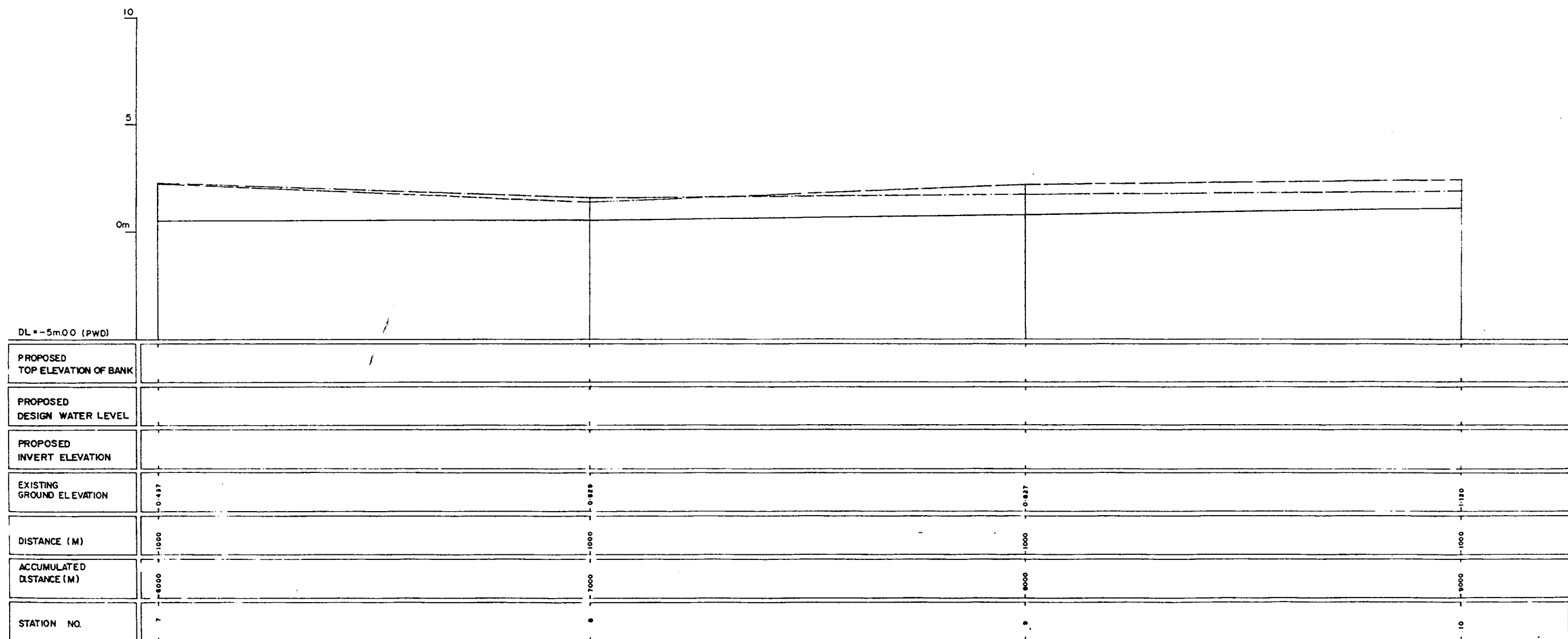
72



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DB-4		SCALE	H=1 5000 V=1 100
DWG NO	KG L6	DATE	March 991
JAPAN INTERNATIONAL COOPERATION AGENCY			

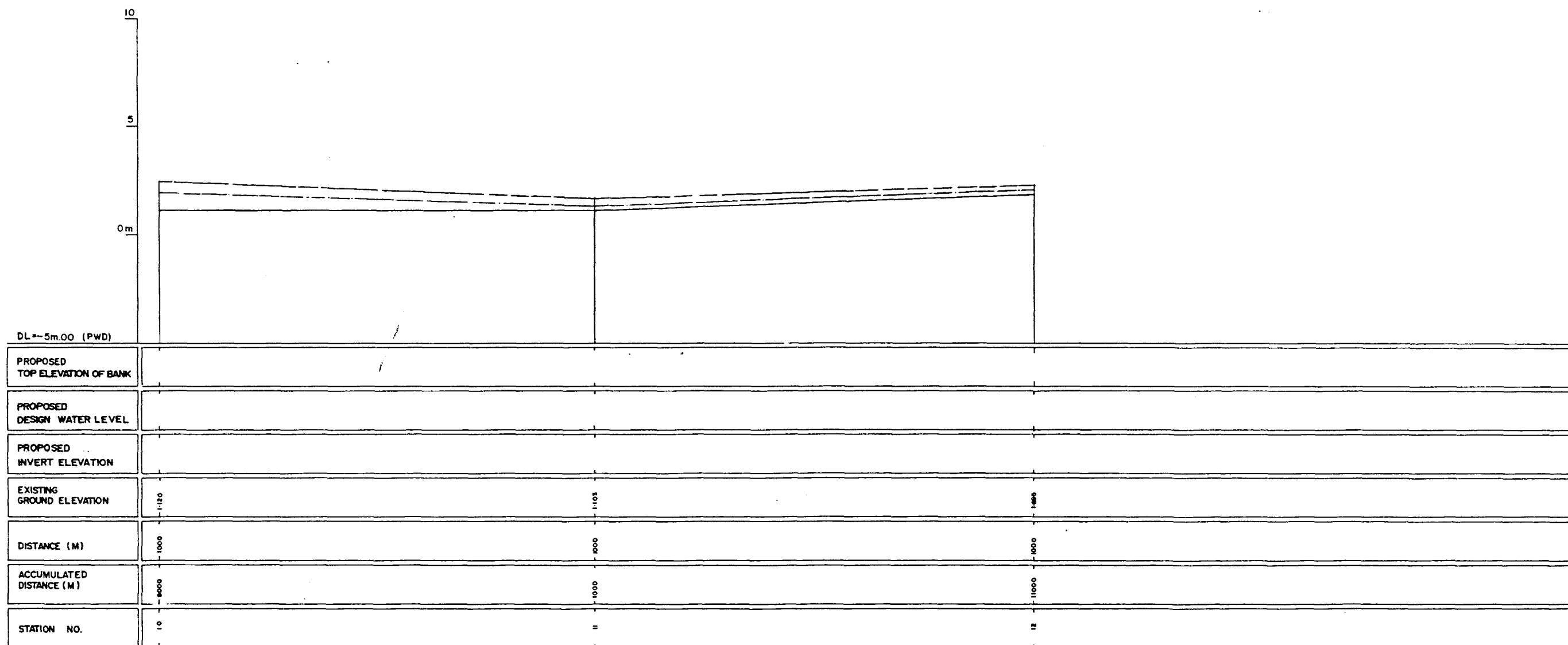
57



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DB-4		SCALE	H:1 5000 V:1 100
DWG NO	KG L 7	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

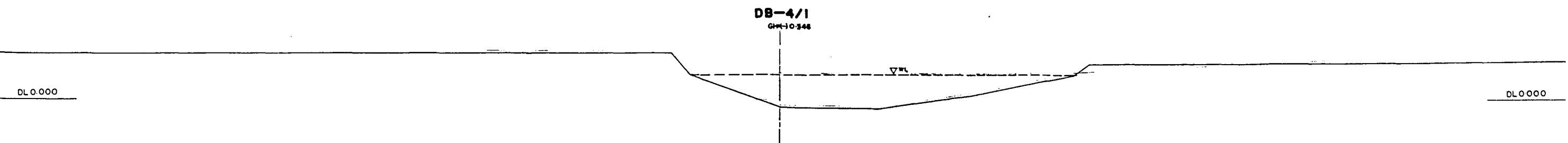
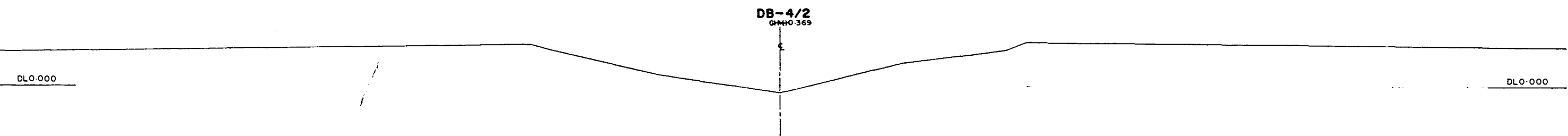
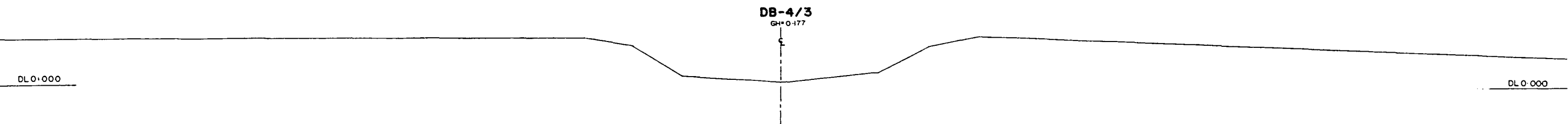
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LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
• L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NOBA			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DB-4		SCALE	H=1:5000 V=1:100
DWG NO	KG L 8	DATE	March '99
JAPAN INTERNATIONAL COOPERATION AGENCY			

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*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-4		SCALE	H=1:200 V=1:300
DWG NO	K6 C 6	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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DB-4/6
GH-0.047

DL 0.000

DL 0.000

DB-4/5
GH-0.300

DL 0.000

DL 0.000

DB-4/4
GH-0.184

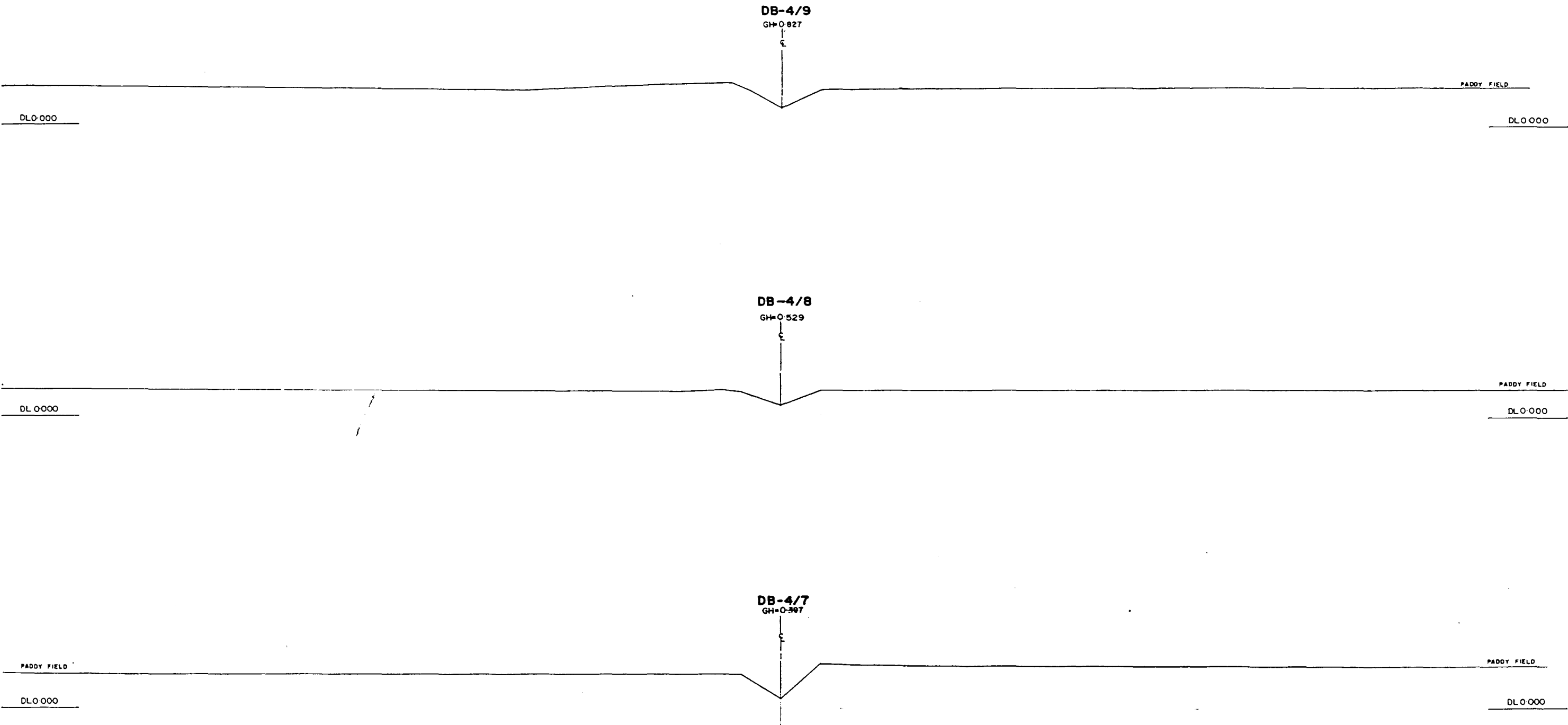
DL 0.000

DL 0.000

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA 1)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-4		SCALE	H=1:200 V=1:100
DWG NO	KG C7	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

28

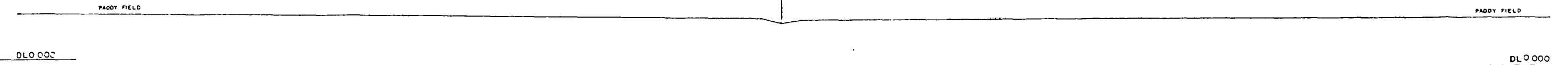


-L/R FACING TO UP STREAM

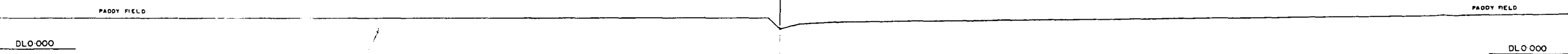
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DB-4	SCALE	H=1:200 V=1:100	
DWG NO	KG C 8	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

38

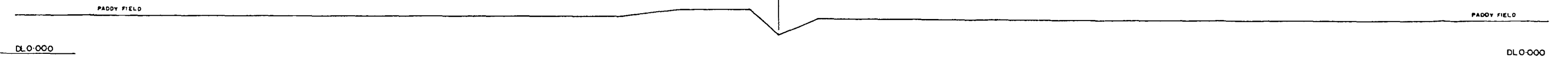
DB-4/12
GH=1.895



DB-4/11
GH=1.103

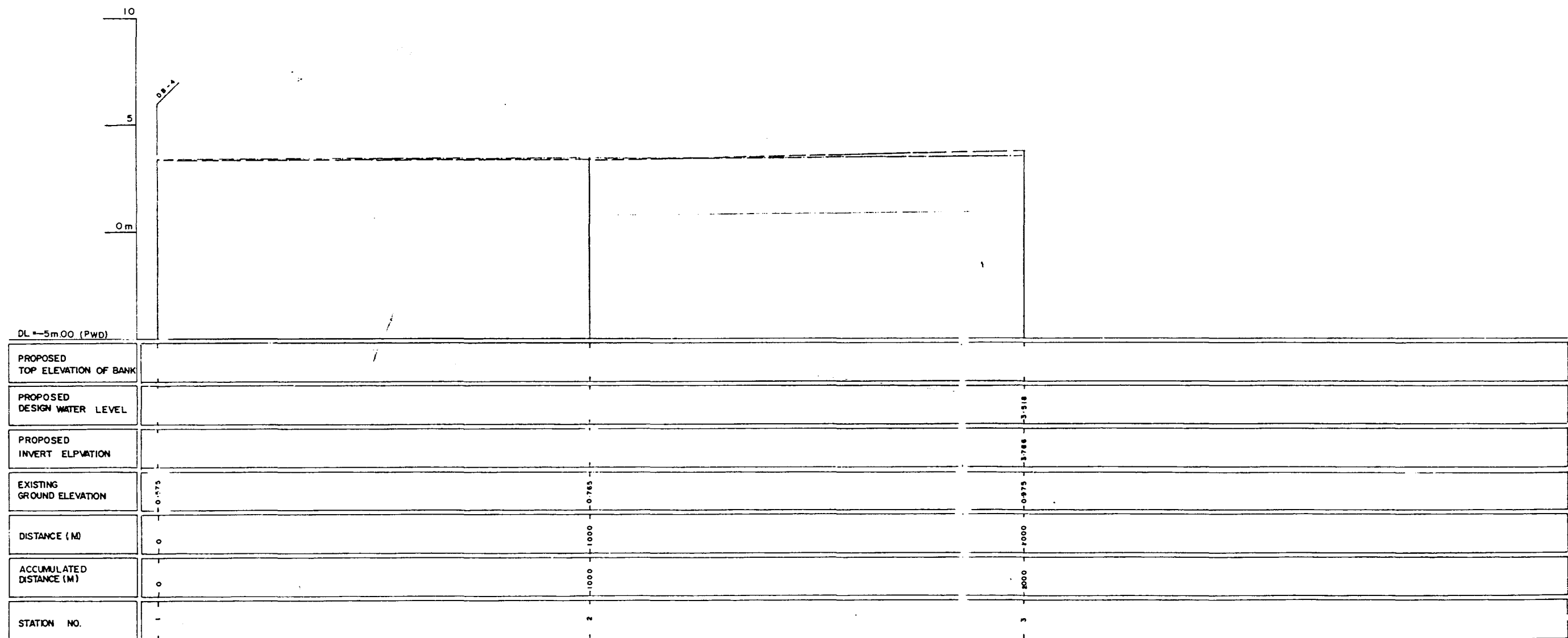


DB-4/10
GH=1.120



*L/R FACING TO UP STREAM

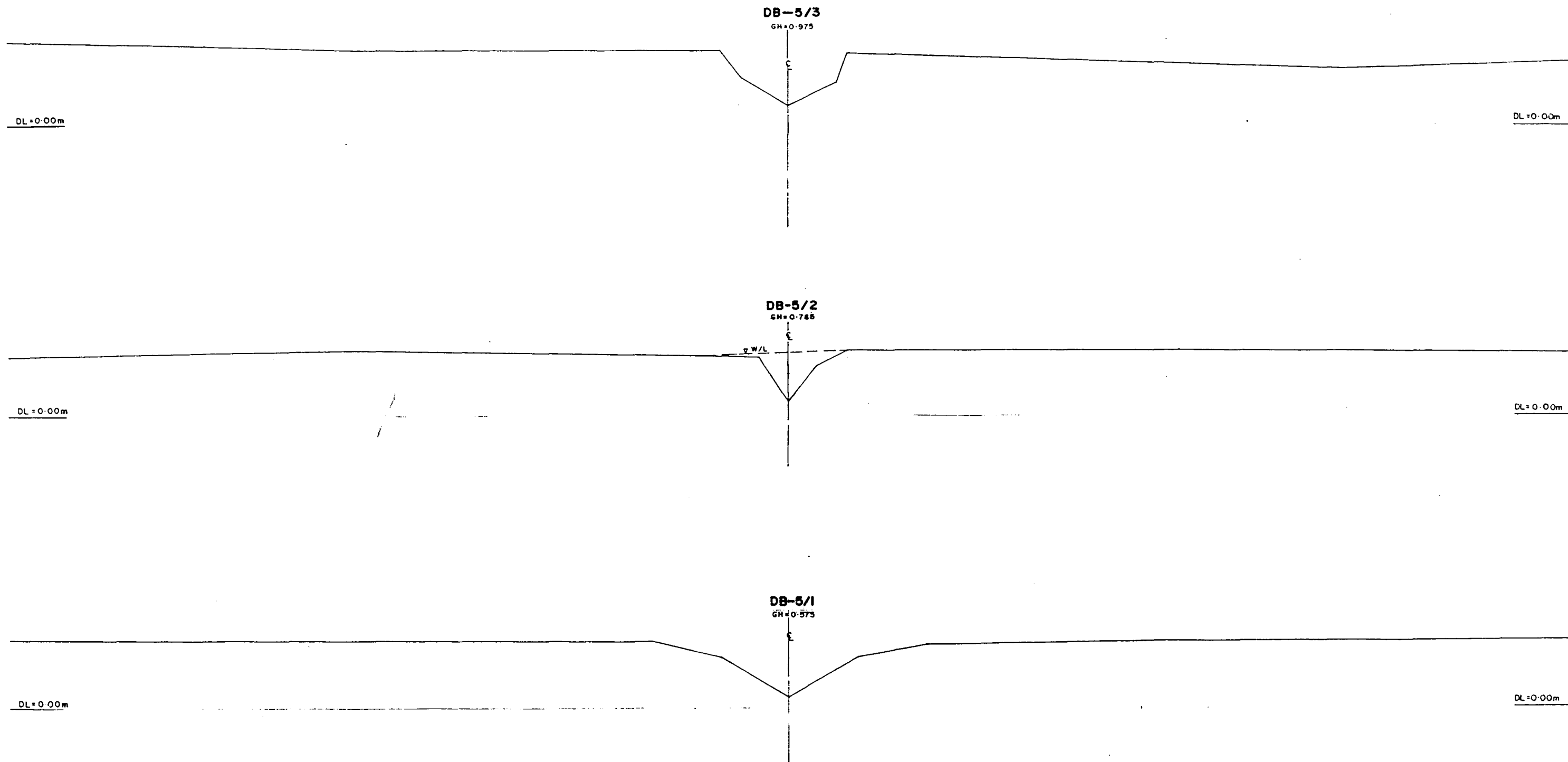
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-4		SCALE	H=1:200 V=1:100
DWG NO	K6 C 9	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			



LEGEND
EXISTING LEFTGROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DB-5		SCALE	H=1:5000 V=1:100
DWG NO	KG L9	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

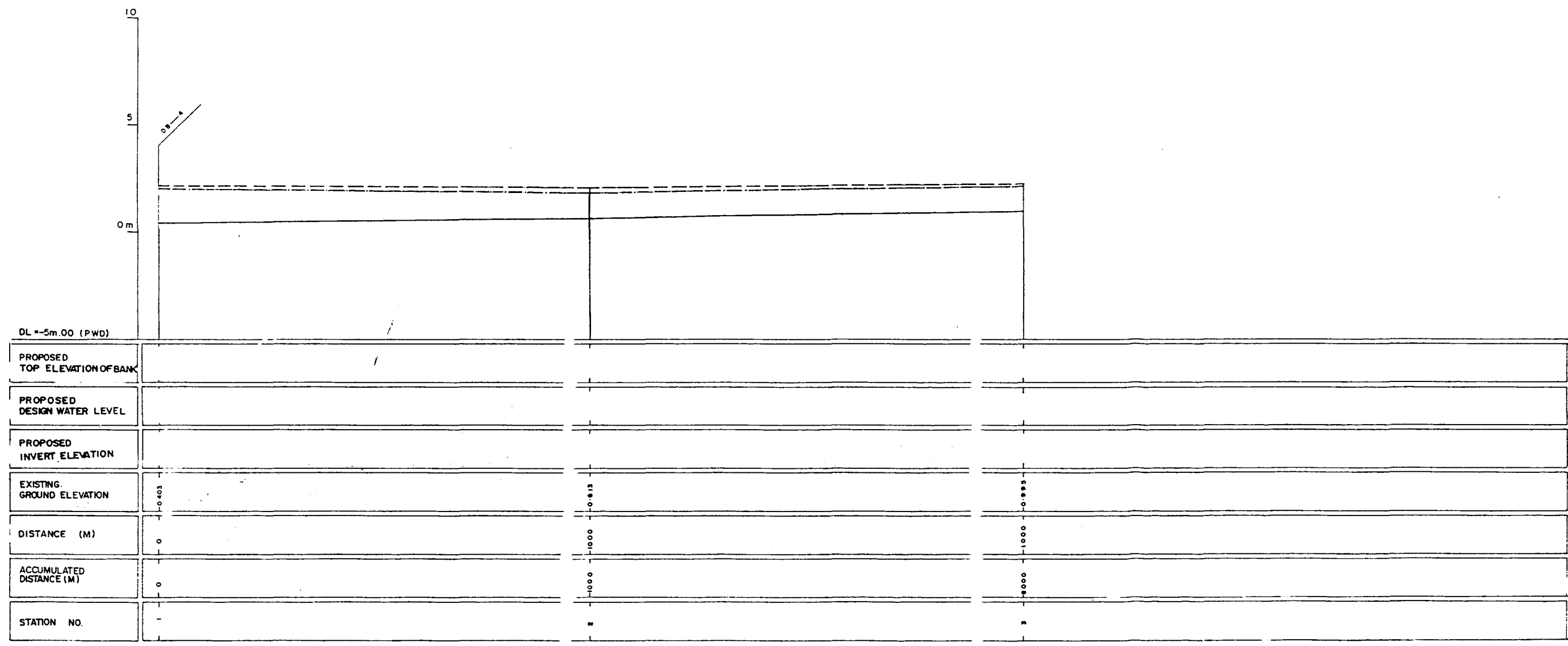
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* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-5		SCALE	H=1:200 V=1:100
DWG NO	KG C 10	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

57

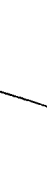


LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NOBA			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DB-6		SCALE	H : 3000 V : 100
DWG NO	KG L10	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

57

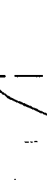
DB-6/3
GH=0.995



DL 0.000m

DL 0.000m

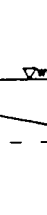
DB-6/2
GH=0.613



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DL 0.000m

DB-6/1
GH=0.425

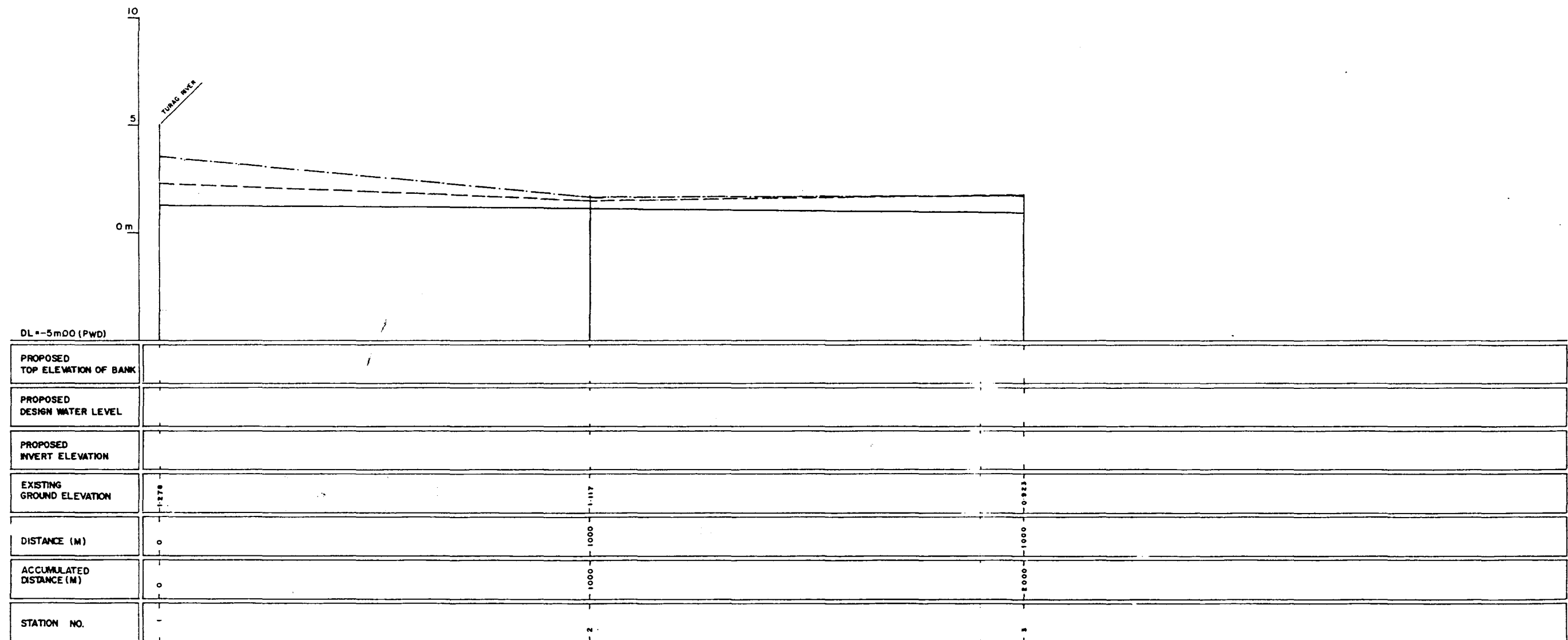


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DL 0.000m

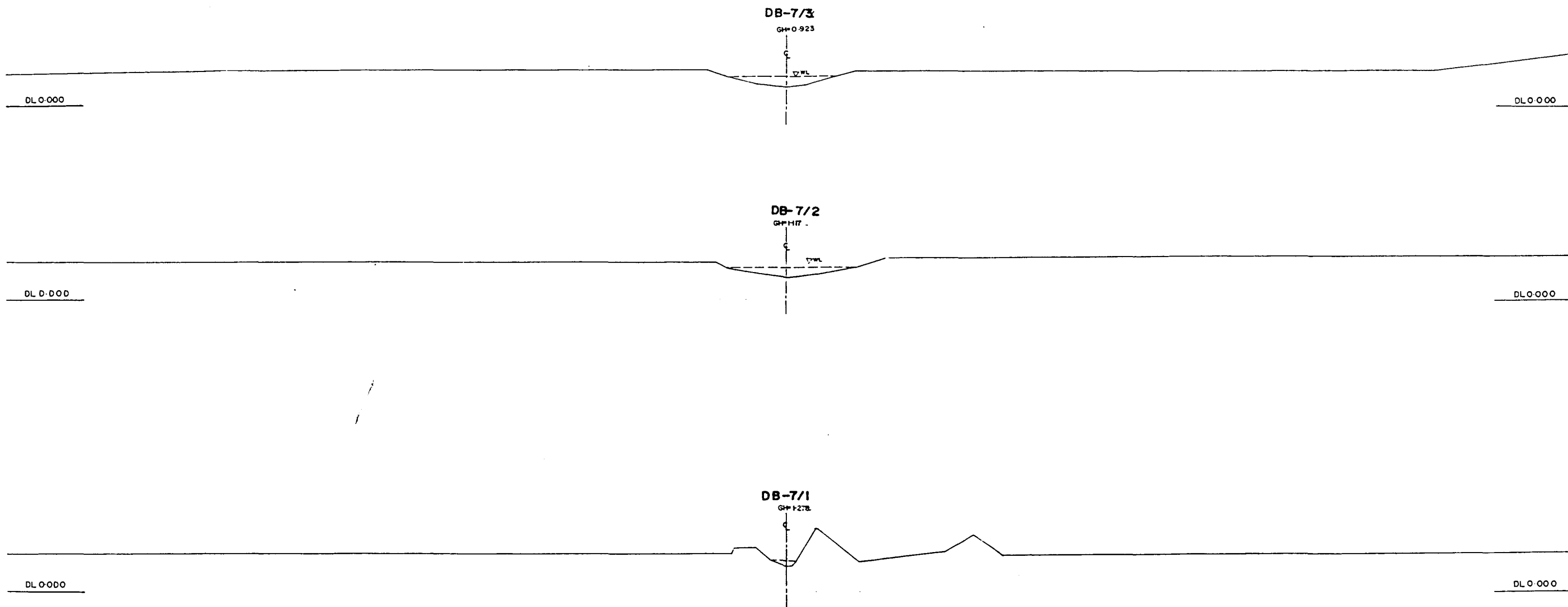
§ L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-6		SCALE	H=1:200 V=1:100
DWG NO.	KB C II	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			



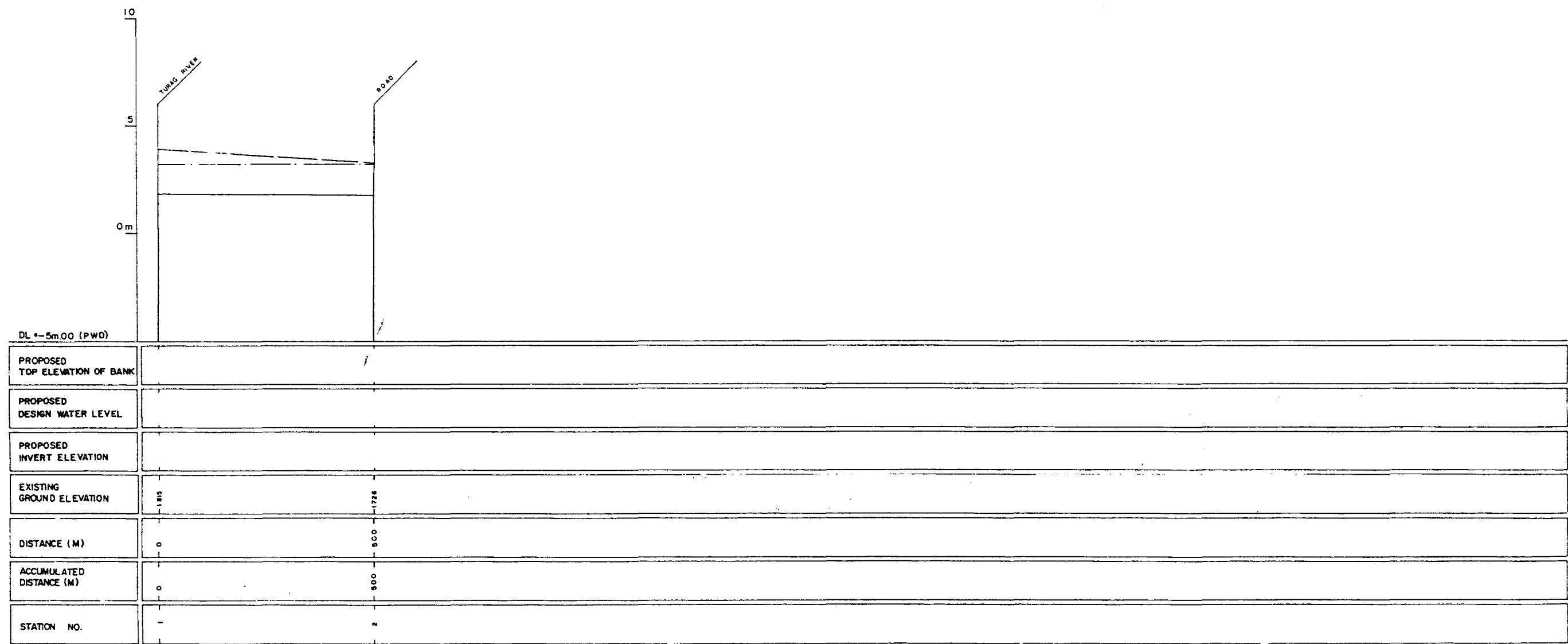
LEGEND
 EXISTING LEFT GROUND LINE -----
 EXISTING RIGHT GROUND LINE -----
 EXISTING BOTTOM LINE -----
 * L/R FACING TOUP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DB-7		SCALE	1:1000
DWG NO	KG L11	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TOWARD STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DB-7		SCALE	H=1:200 V=1:100
DWG NO	KG C 12	DATE	March 1998
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
*L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL
DB-8

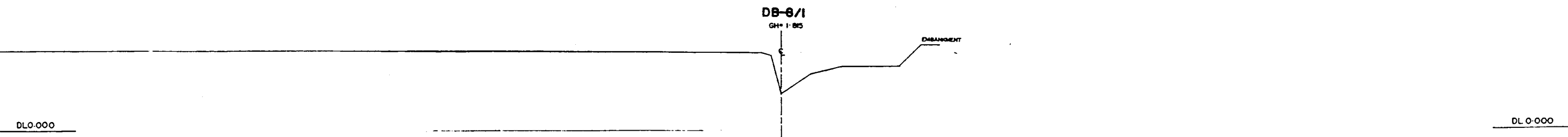
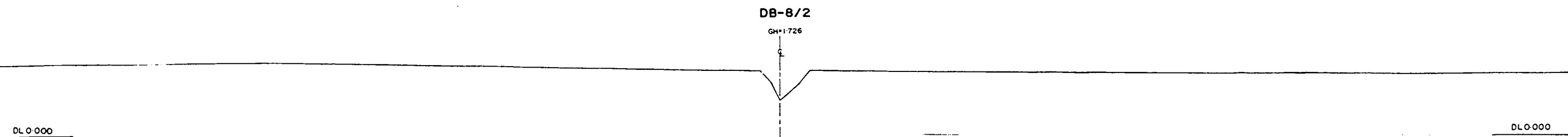
SCALE
H 1 5000
V 1 100

DATE
March 1991

DMG NO. KG L12

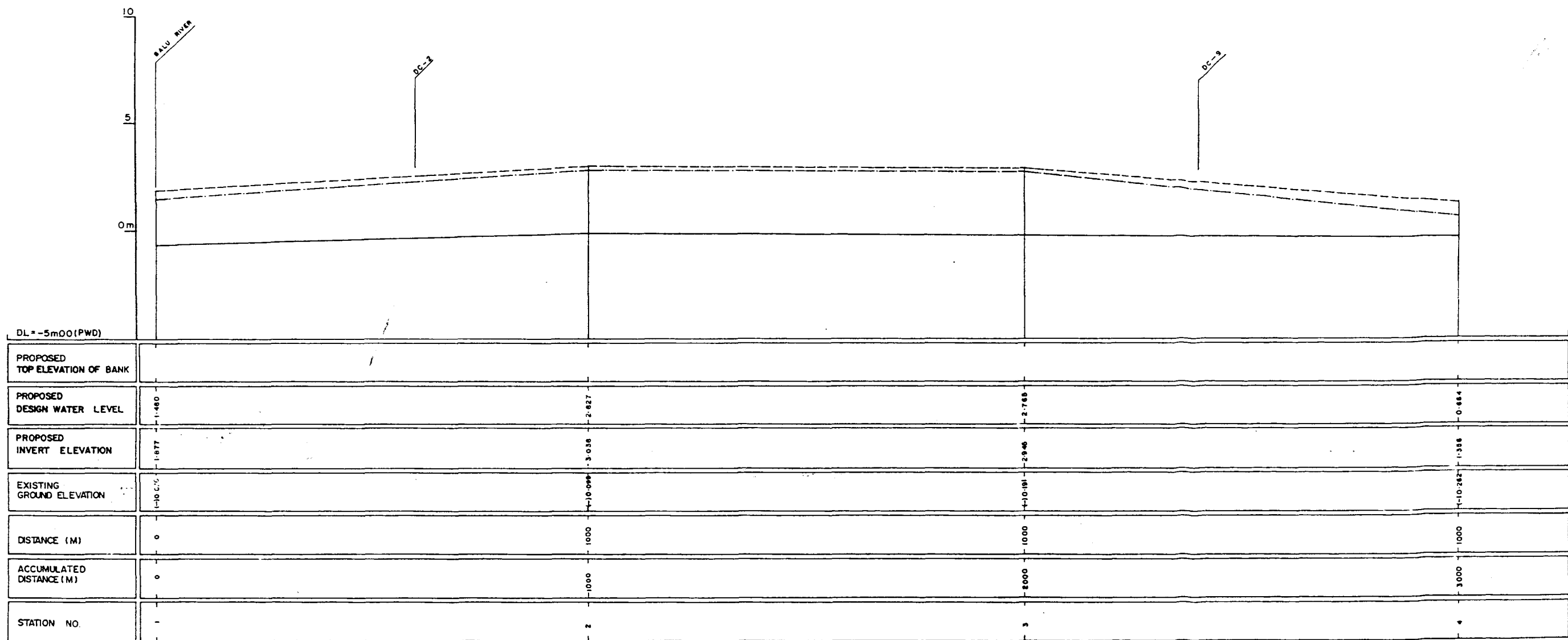
JAPAN INTERNATIONAL COOPERATION AGENCY

92



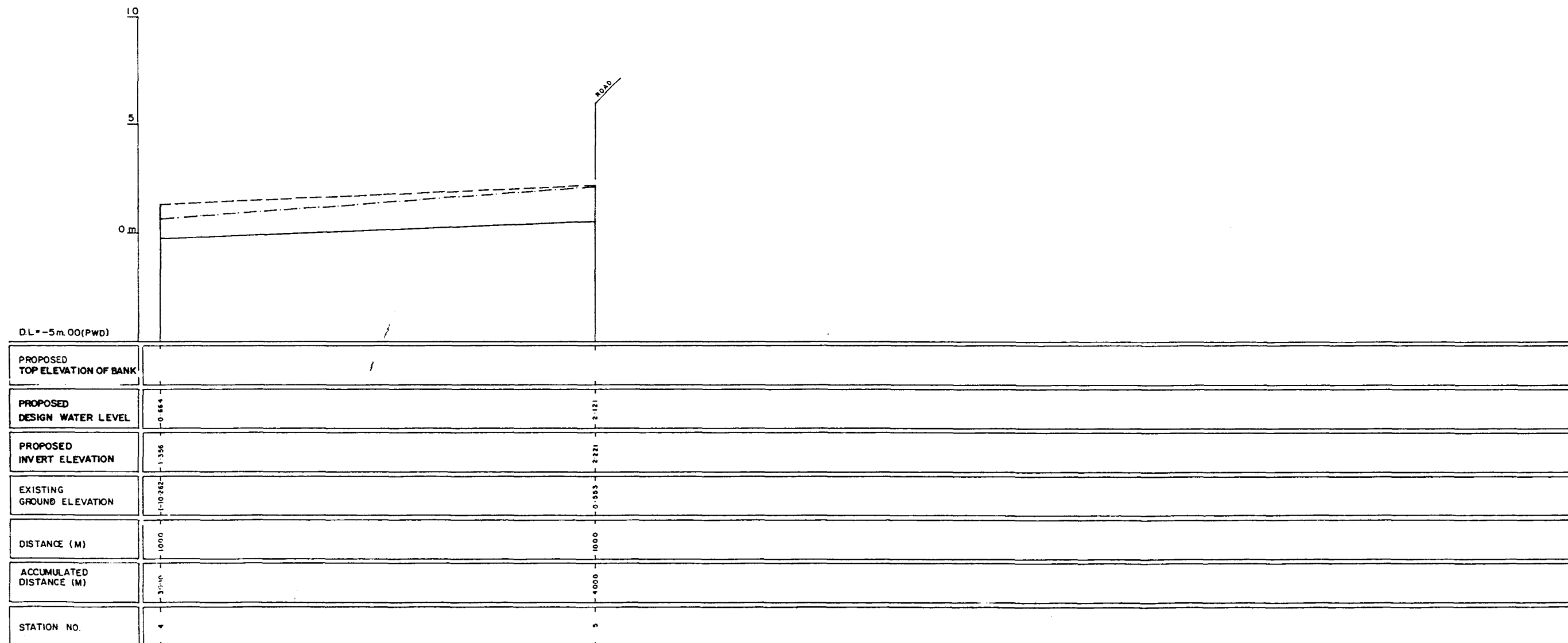
• L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-8		SCALE	H=1:200 V=1:500
DWG NO	KG C13	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

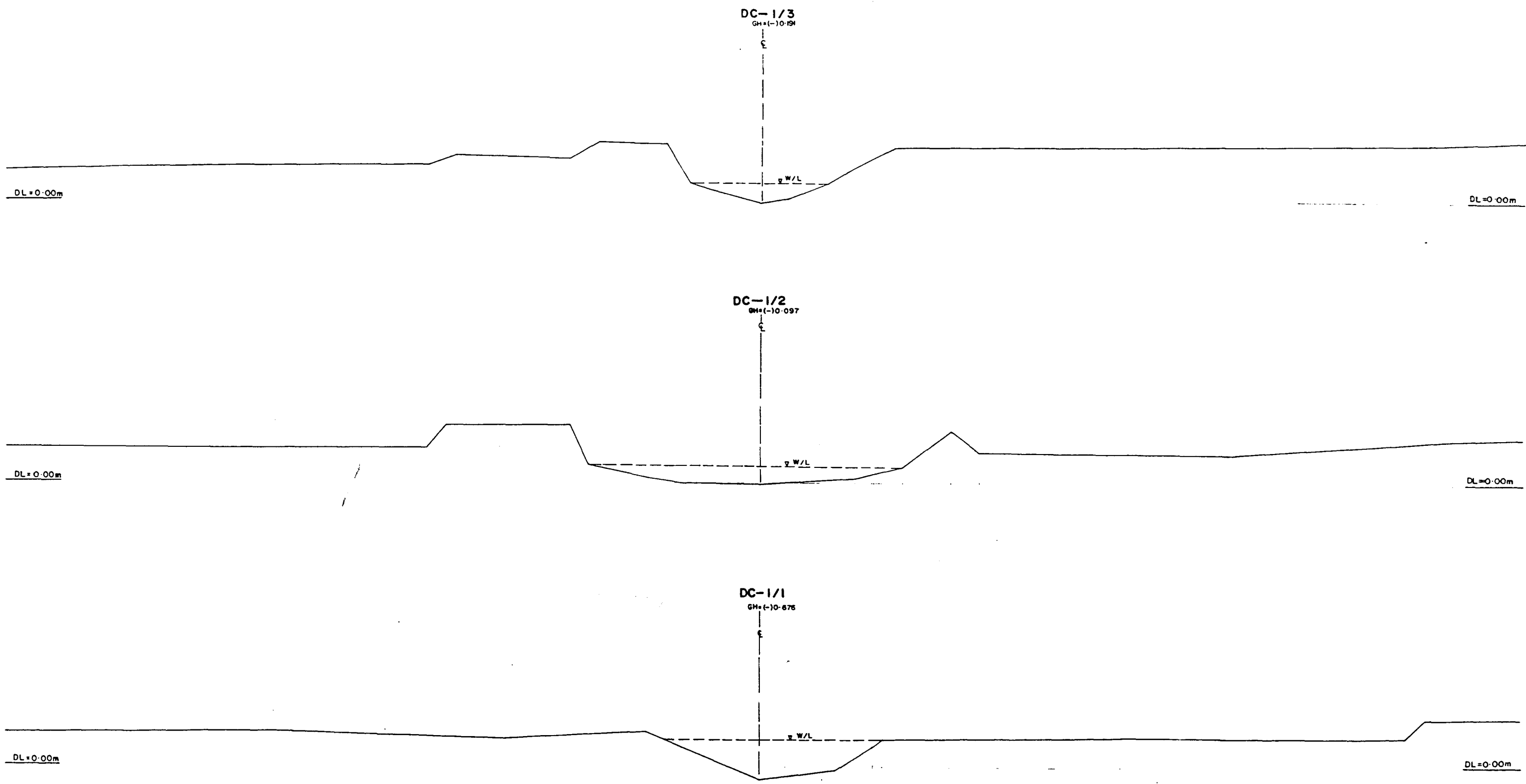
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-1		SCALE	H: 1:5000 V: 1:100
OWGNO	KG L 13	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-1		SCALE	H:V 1:5000 V:1:100
DWG NO.	KG L14	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

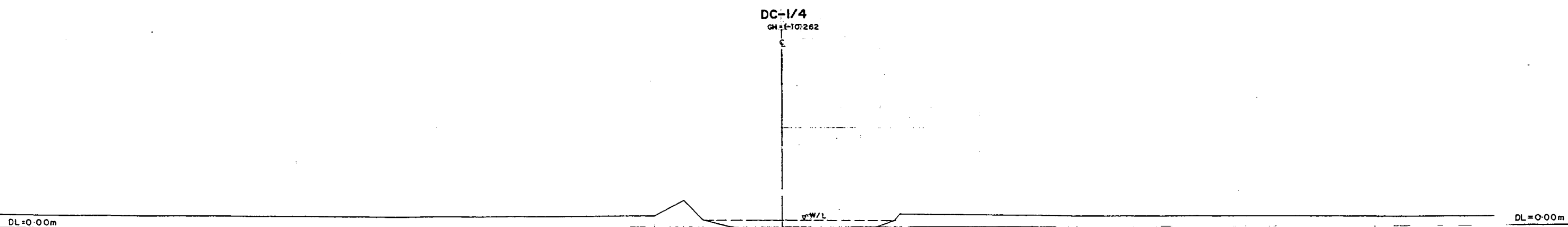
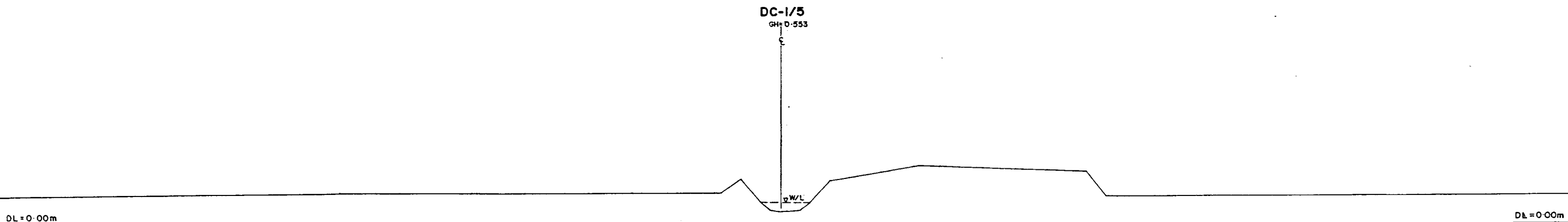
93



* L/R FANCING TO UP STREAM

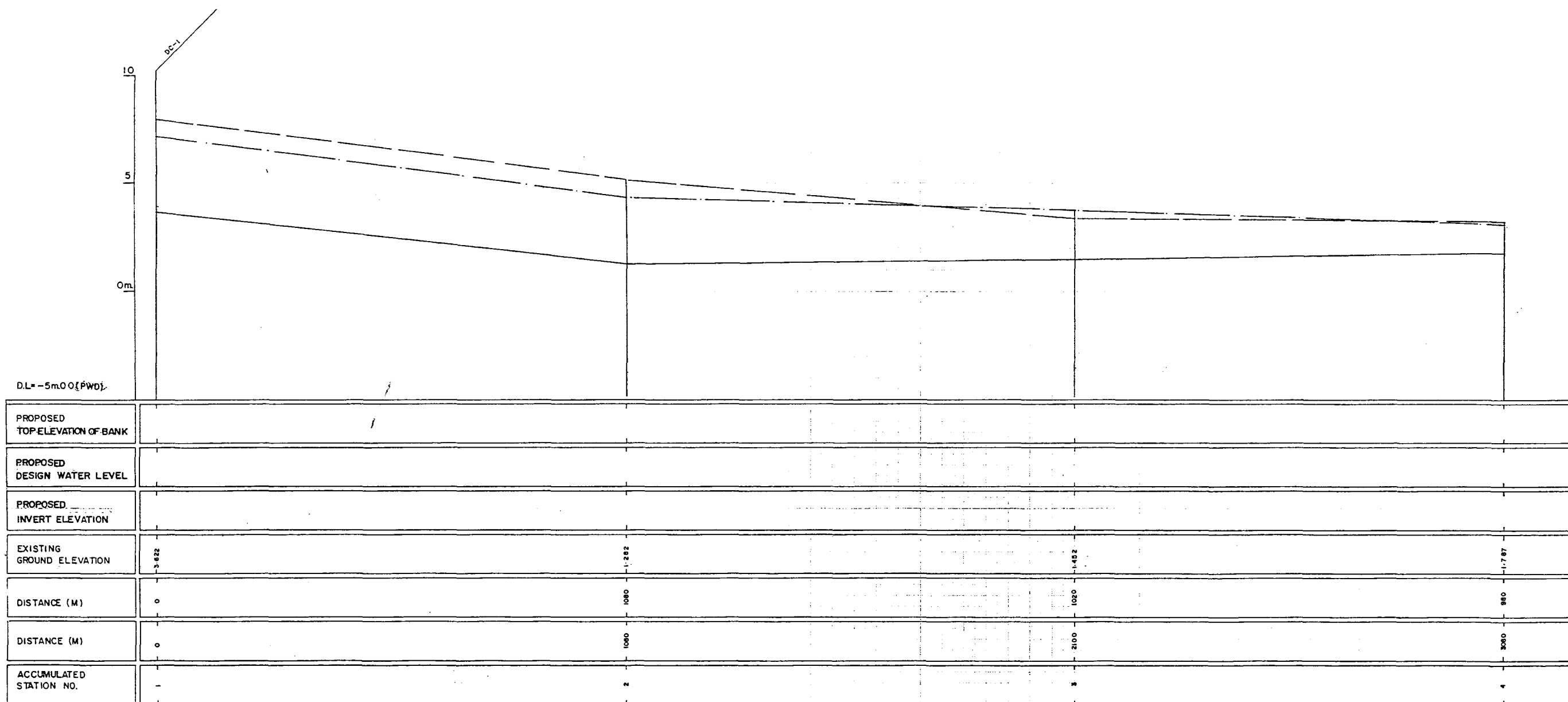
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-1		SCALE	H=1:200 V=1:100
DWGNO	KS CH	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

99



* L/R FACING TO UP STREAM

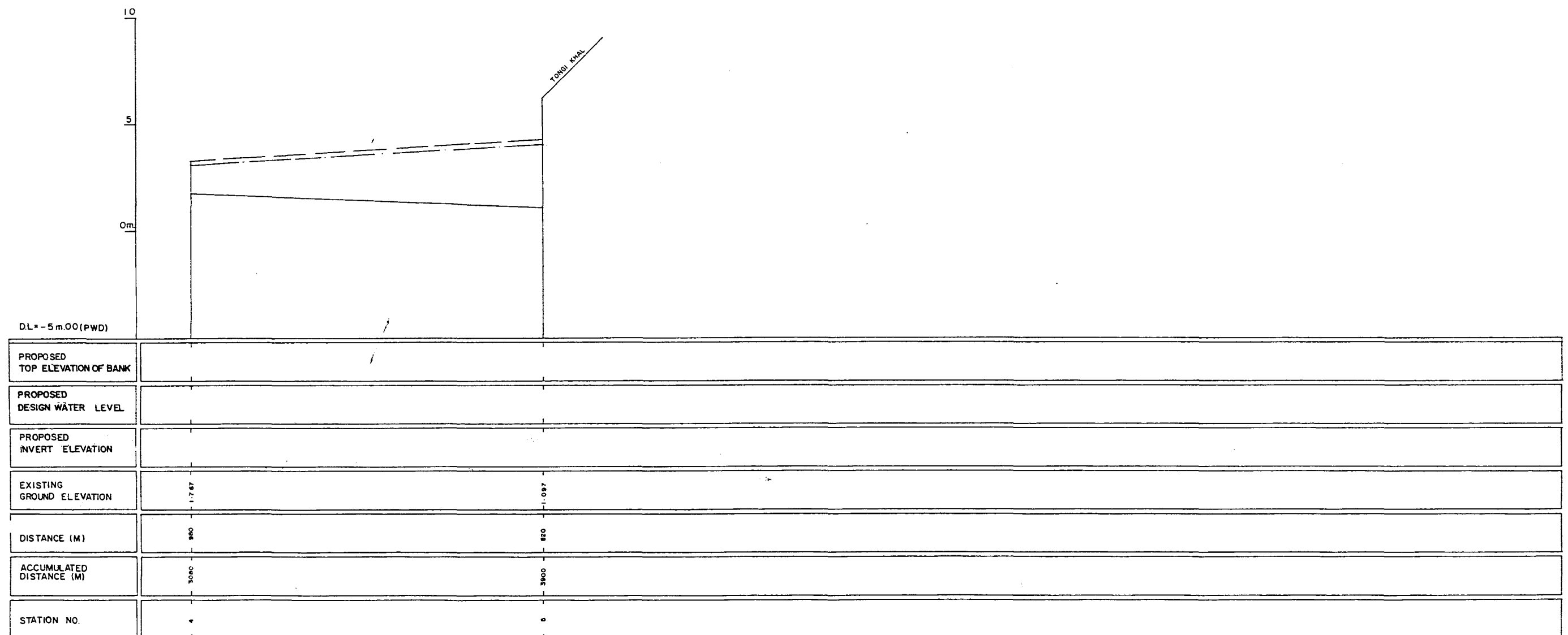
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-1	SCALE	H=1:200	V=1:100
DWG. NO.	KG C.15	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UPSTREAM

GREATER DHAKA PROTECTION PROJECT (STUDY-IN-DHAKA-METROPOLITAN AREA.) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-2	SCALE	H=1:5000 V=1:500	
DWG. NO.	KG. 2L15	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

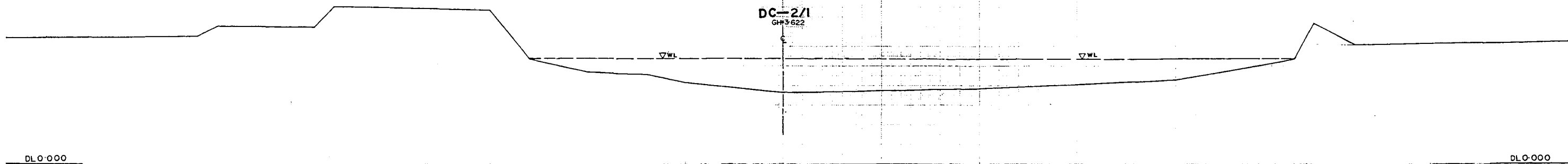
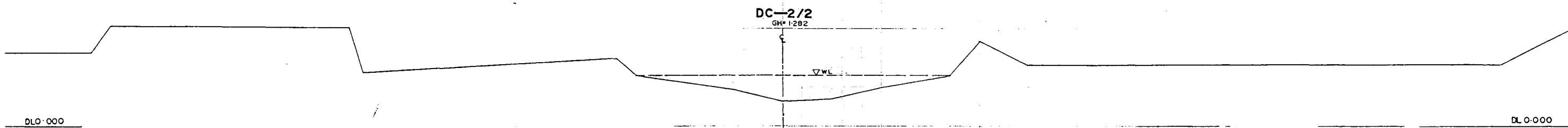
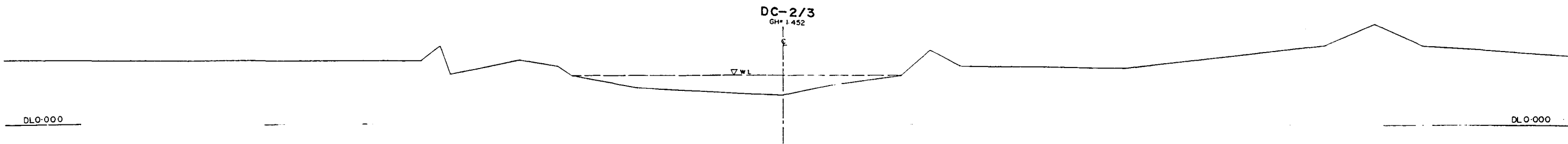
92



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TOUPSTREAM

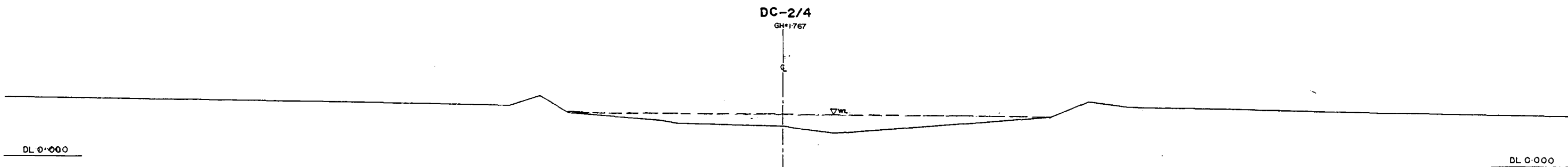
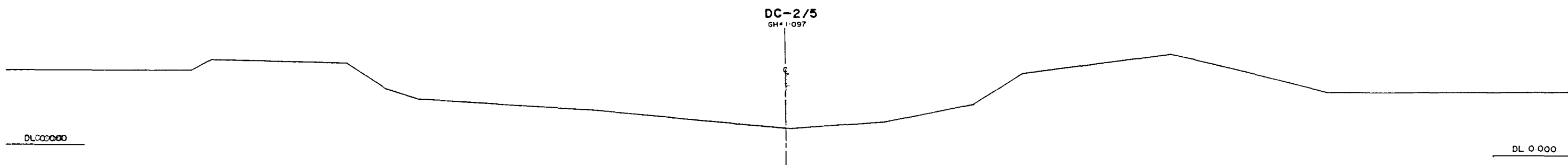
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-2	SCALE	H = 1:5000 V = 1:100	
DWG.NO.	KG L16	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

h



* L/R FACING TO UP STREAM

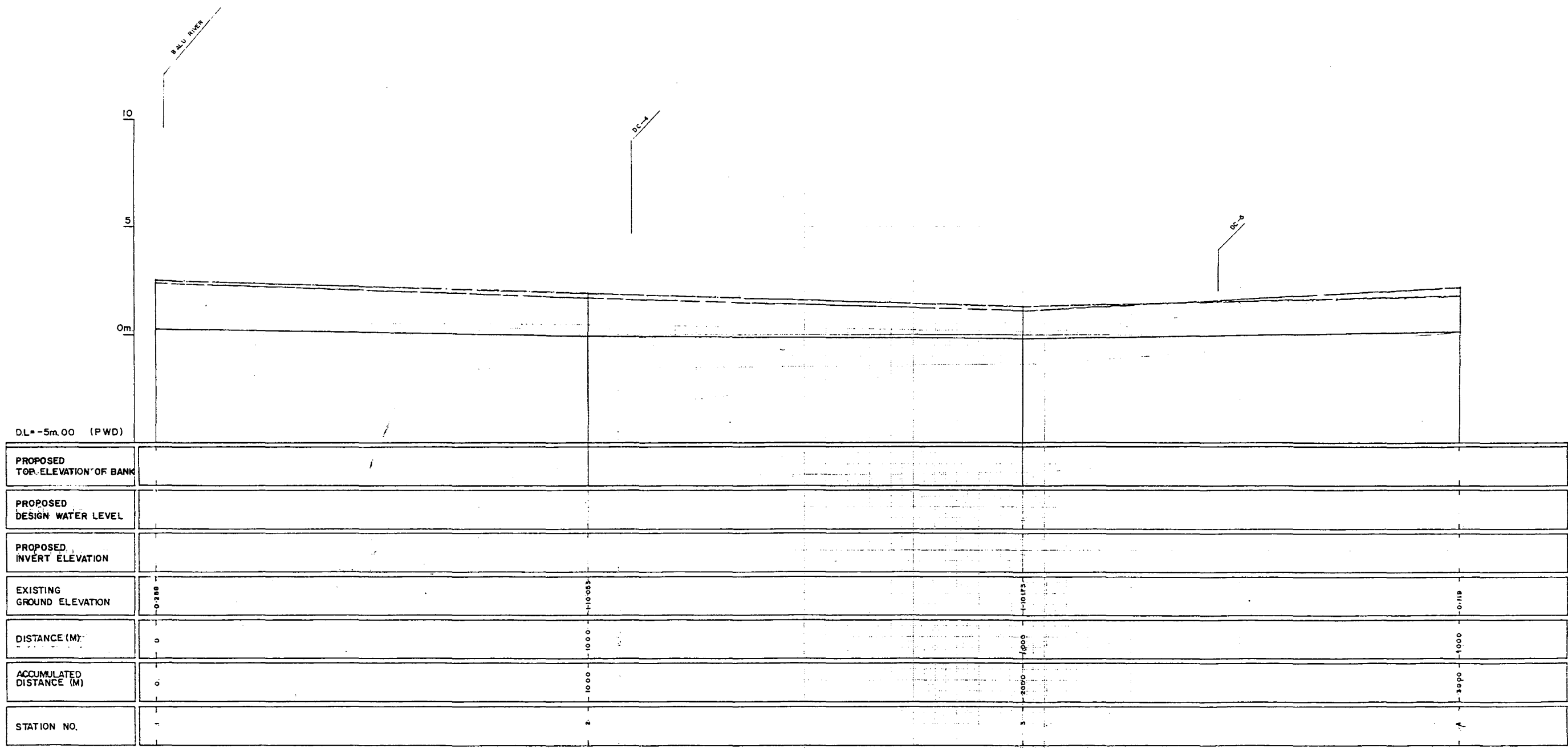
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-2		SCALE	H=1:200 V=1:100
DWG NO.	KG C16	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* 1/2 R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-2		SCALE	H=1:200 V=1:100
DWG NO	KG C17	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

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LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM

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

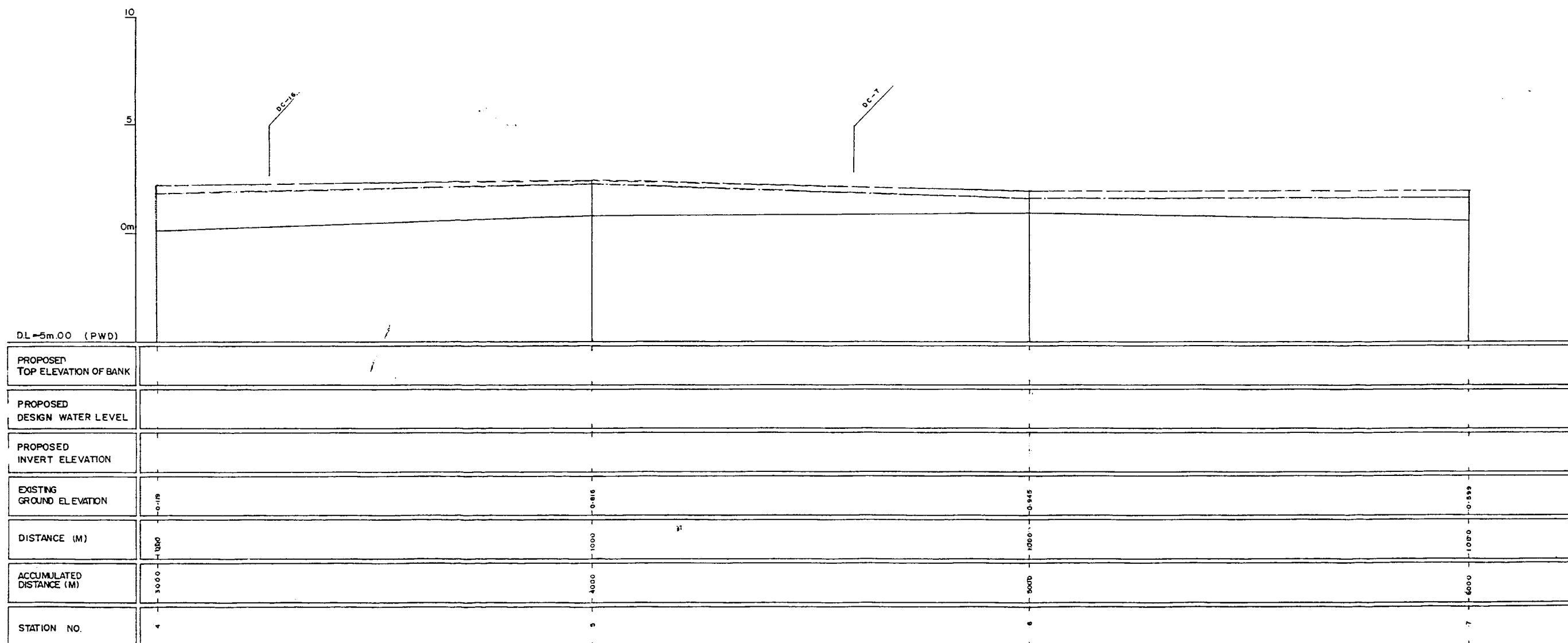
DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

DC-3

DWG. NO. KG L17 SCALE H=1:5000 V=1:100 DATE March 1991

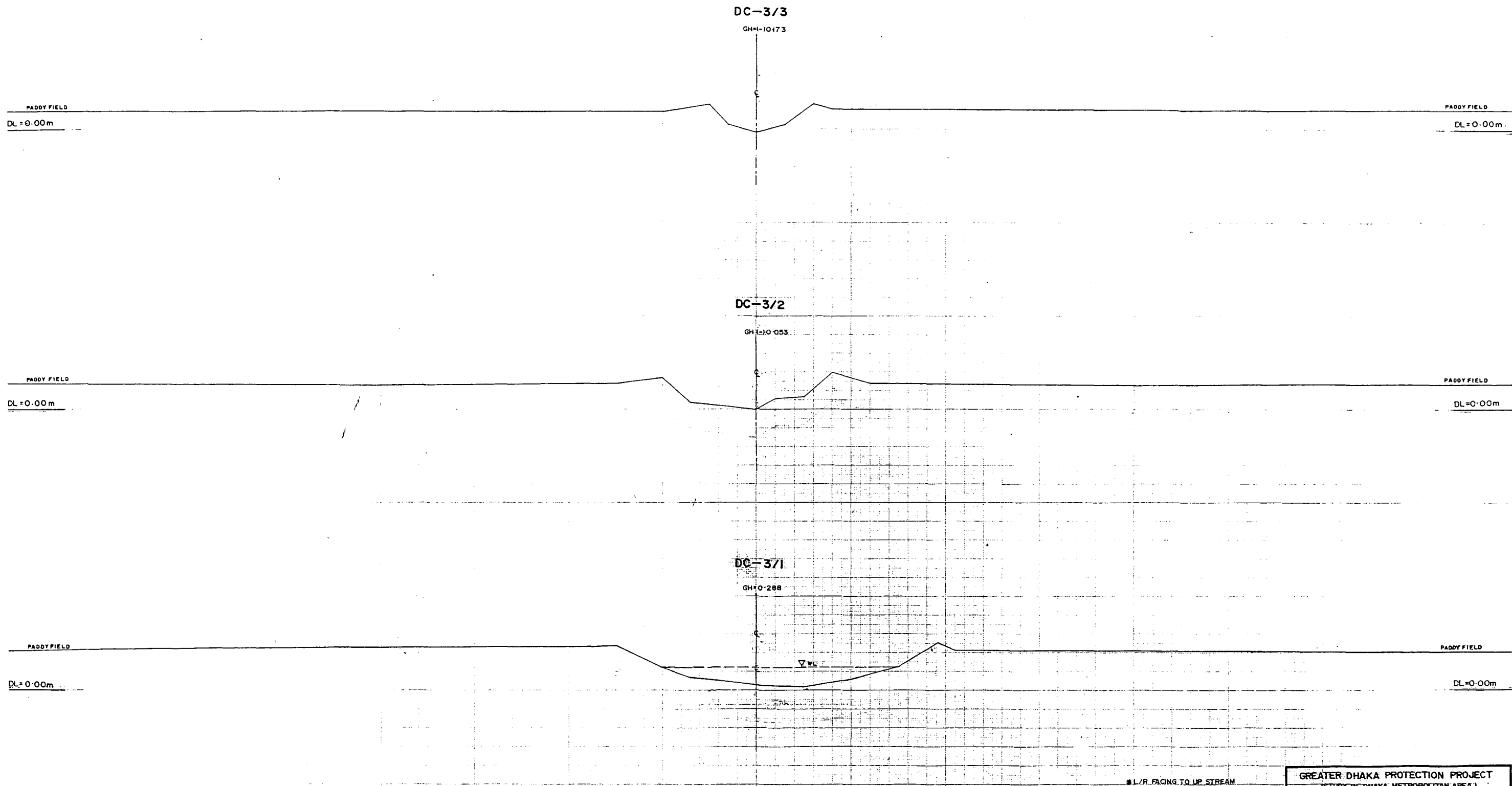
JAPAN INTERNATIONAL COOPERATION AGENCY

RG



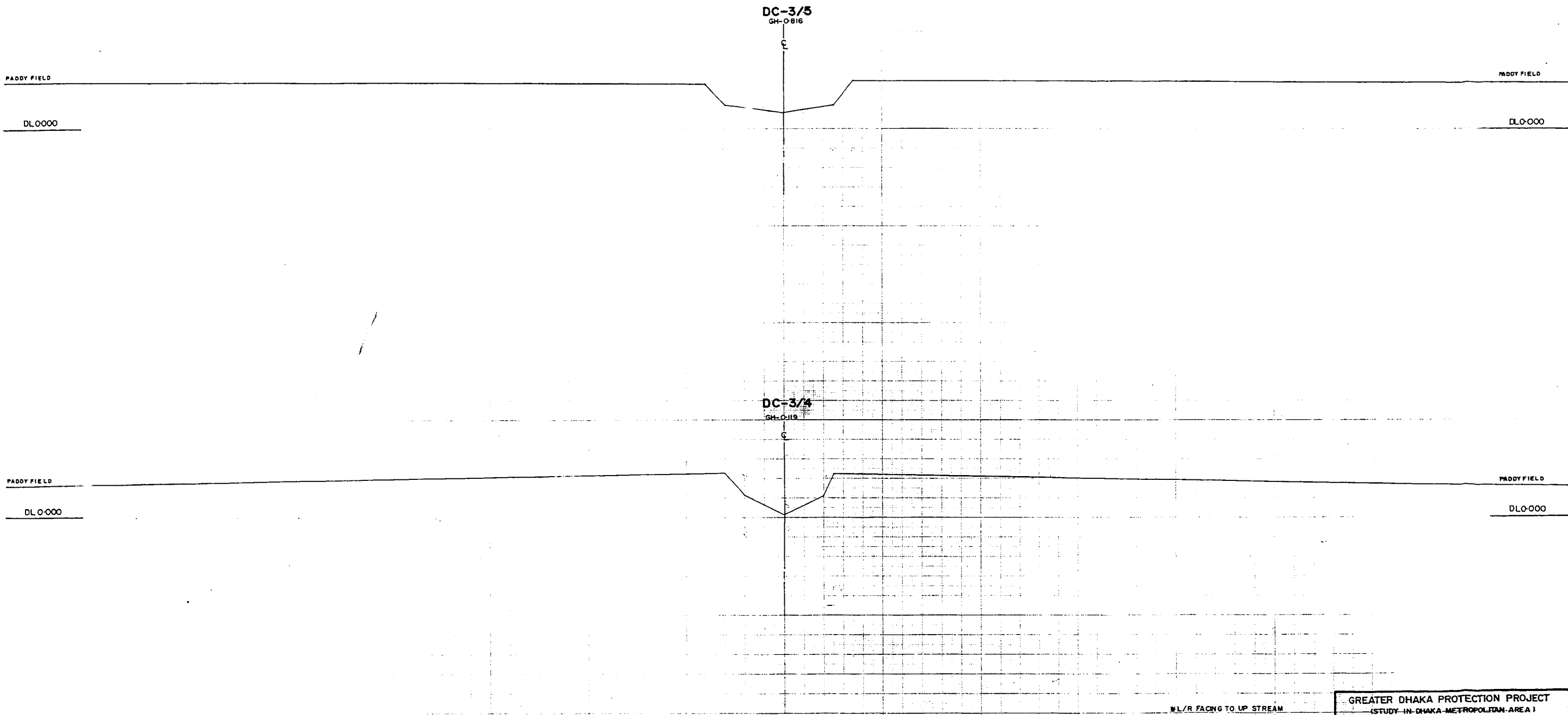
LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-3	SCALE	H= 1:5000 V= 1:100	
DWG. NO.	KG L18	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



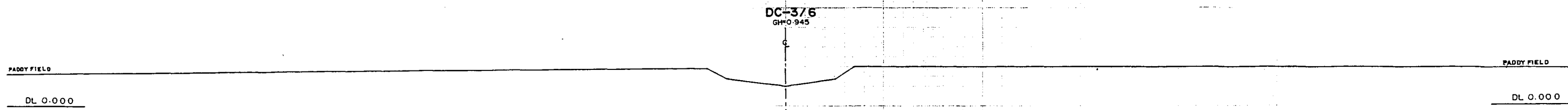
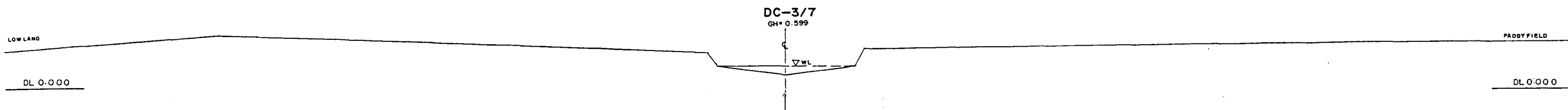
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA 1) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-3	SCALE	H=2000 V=100	
DWG NO.	KG C18	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA I) BANGLADESH FLOOD ACTION PLAN NO. 8A		
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL		
DC-3	SCALE	N=1:200 V=1:100
DWG. NO.	KG C19	DATE March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY		

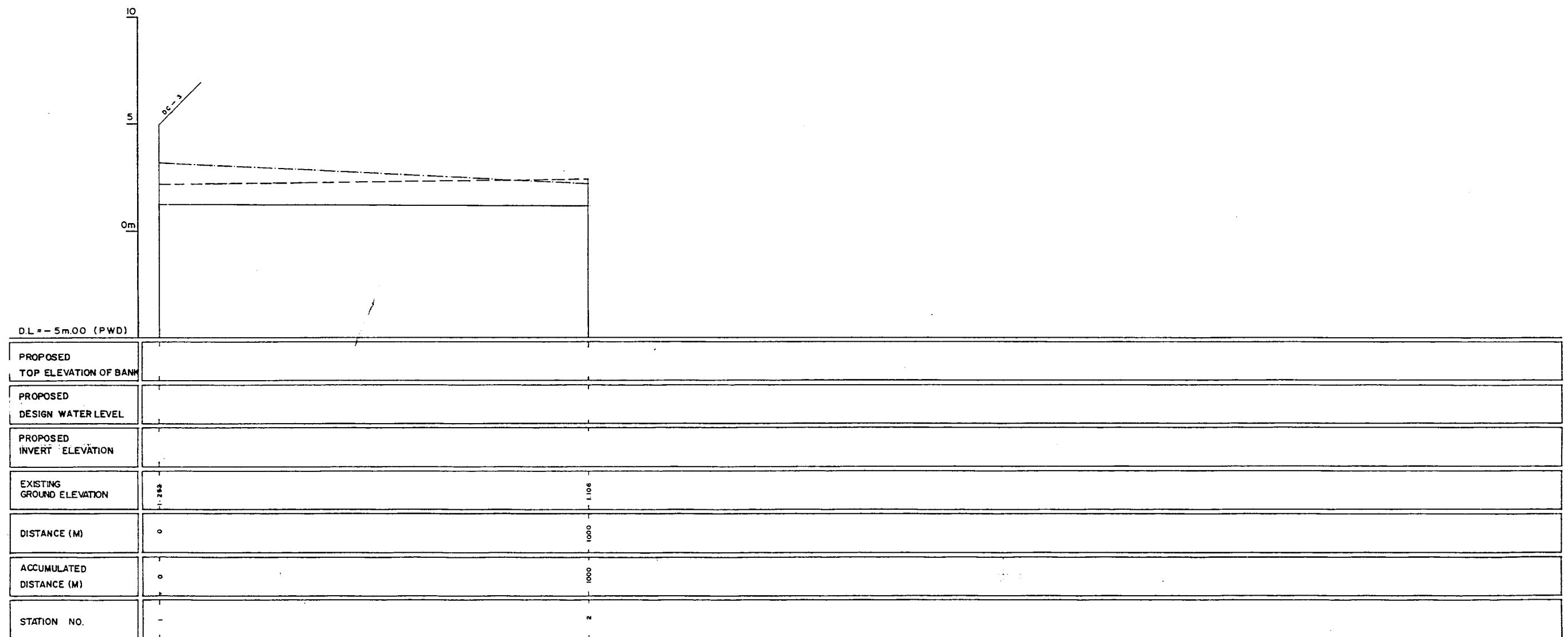
83



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-3		SCALE	HP:200 VP:1.00
DWG NO	KG C20	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

69

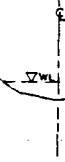


LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-4		SCALE	H=1:5000 V=1:100
DWG.NO.	KG L 19	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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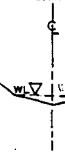
DC-4/2
GH+1.06



DL=0.000m

DL=0.000m

DC-4/1
GH+1.252



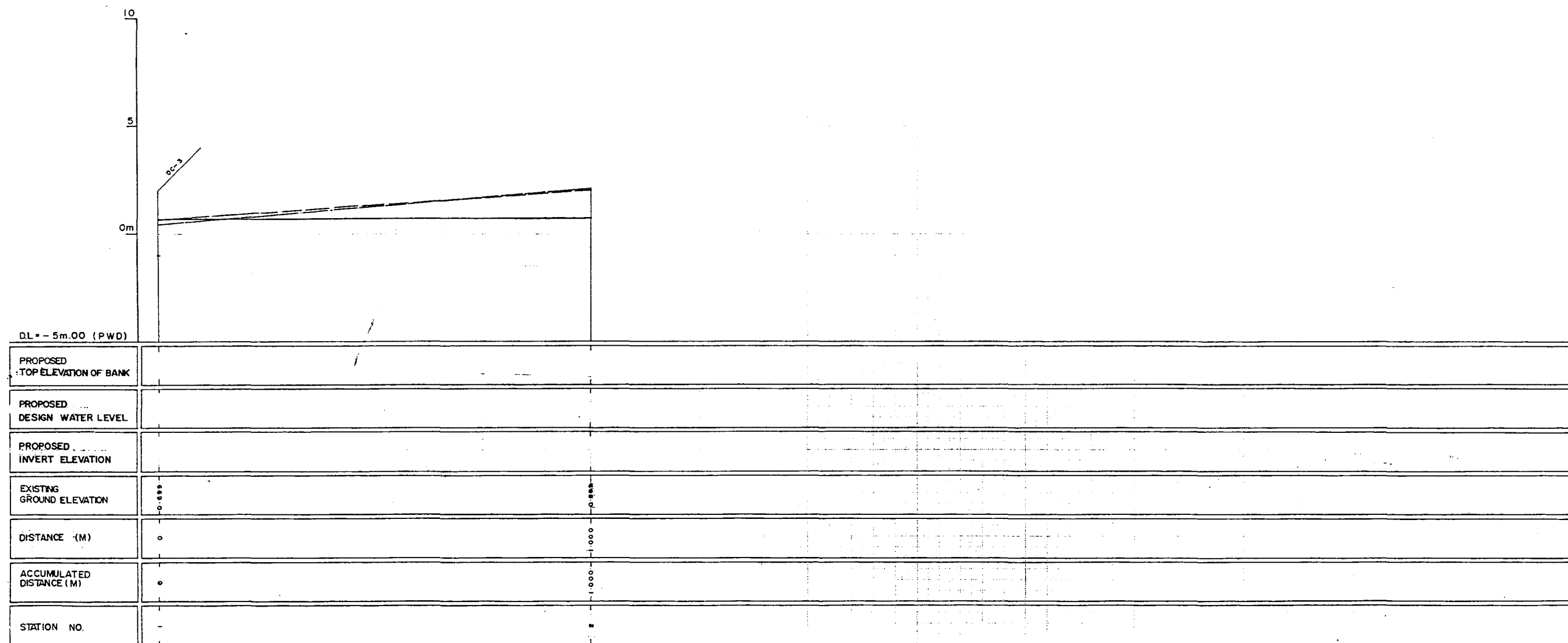
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DL=0.000m

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-4		SCALE	H=1:200 V=1:100
DWG. NO.	-KG-C21	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

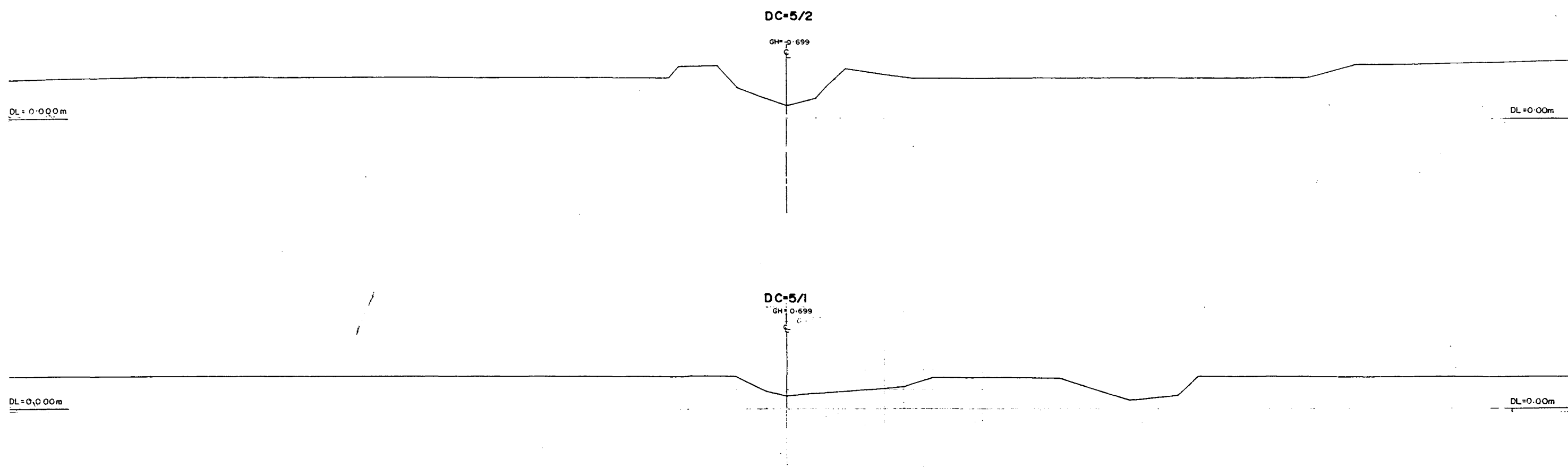
FD



LEGEND
 EXISTING LEFT GROUND LINE ---
 EXISTING RIGHT GROUND LINE ---
 EXISTING BOTTOM LINE ---
 * L/R FACING TO UP STREAM

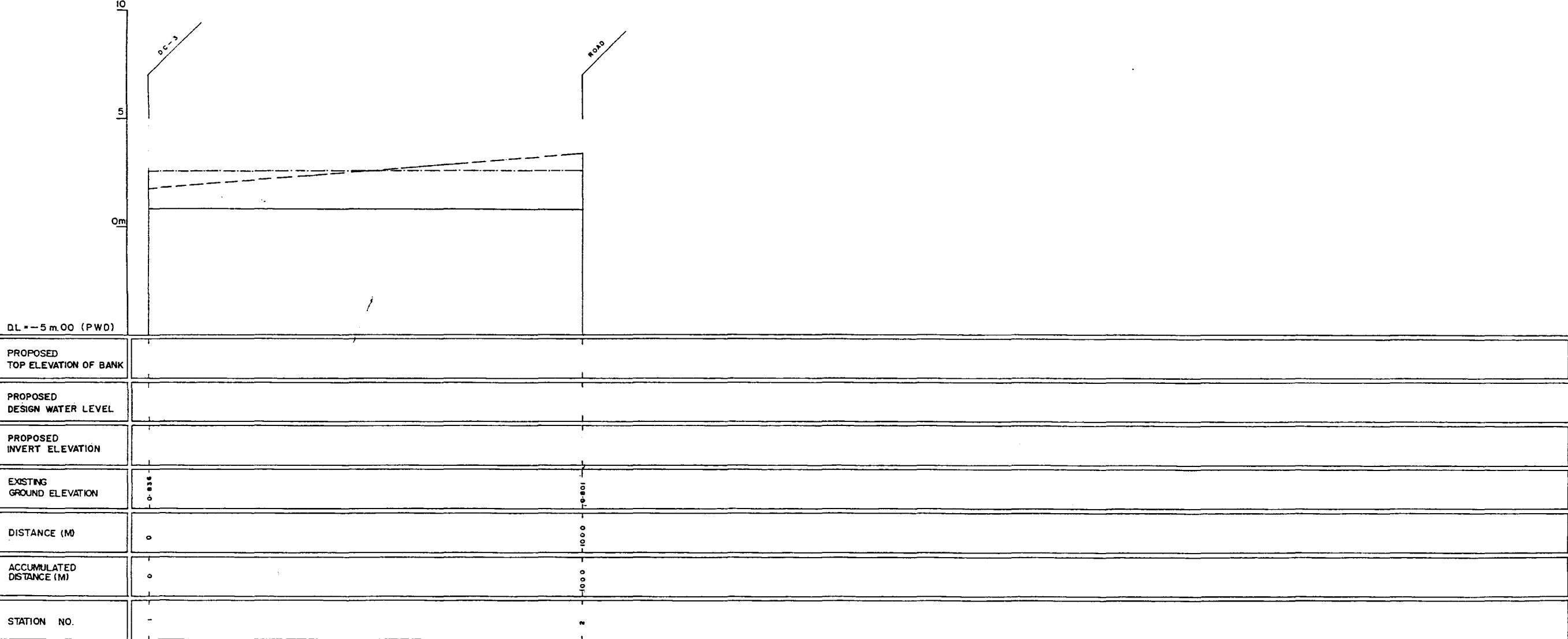
GREATER DHAKA PROTECTION PROJECT (STUDY- IN- DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DWG. NO.	DC-5	SCALE	1:3000 Vs 1:100
DATE	March, 1991		
JAPAN INTERNATIONAL COOPERATION AGENCY			

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N/L/R FACING TO UP STREAM.

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC- 5		SCALE	H=1:200 V=1:100
DWG. NO.	KG. C22	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

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

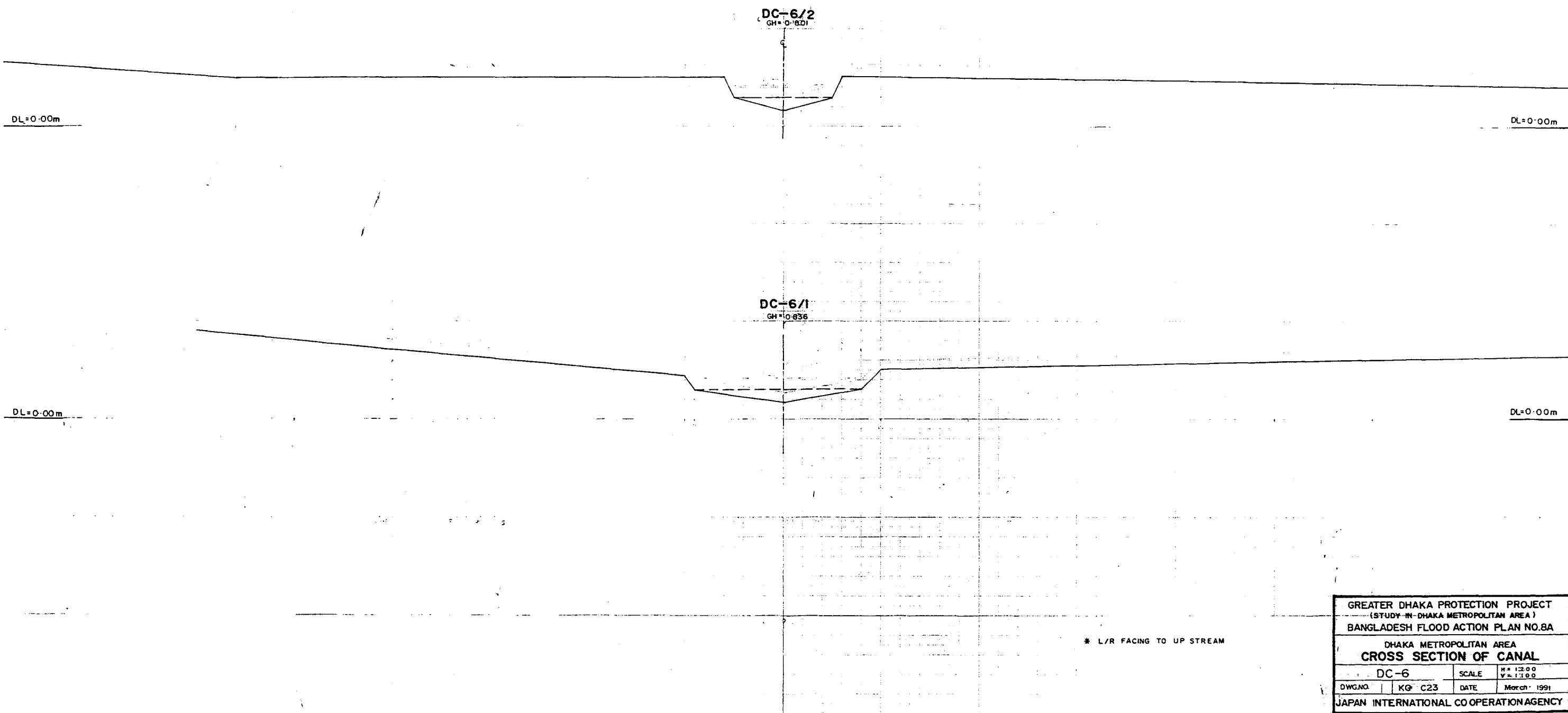
DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

DC-6

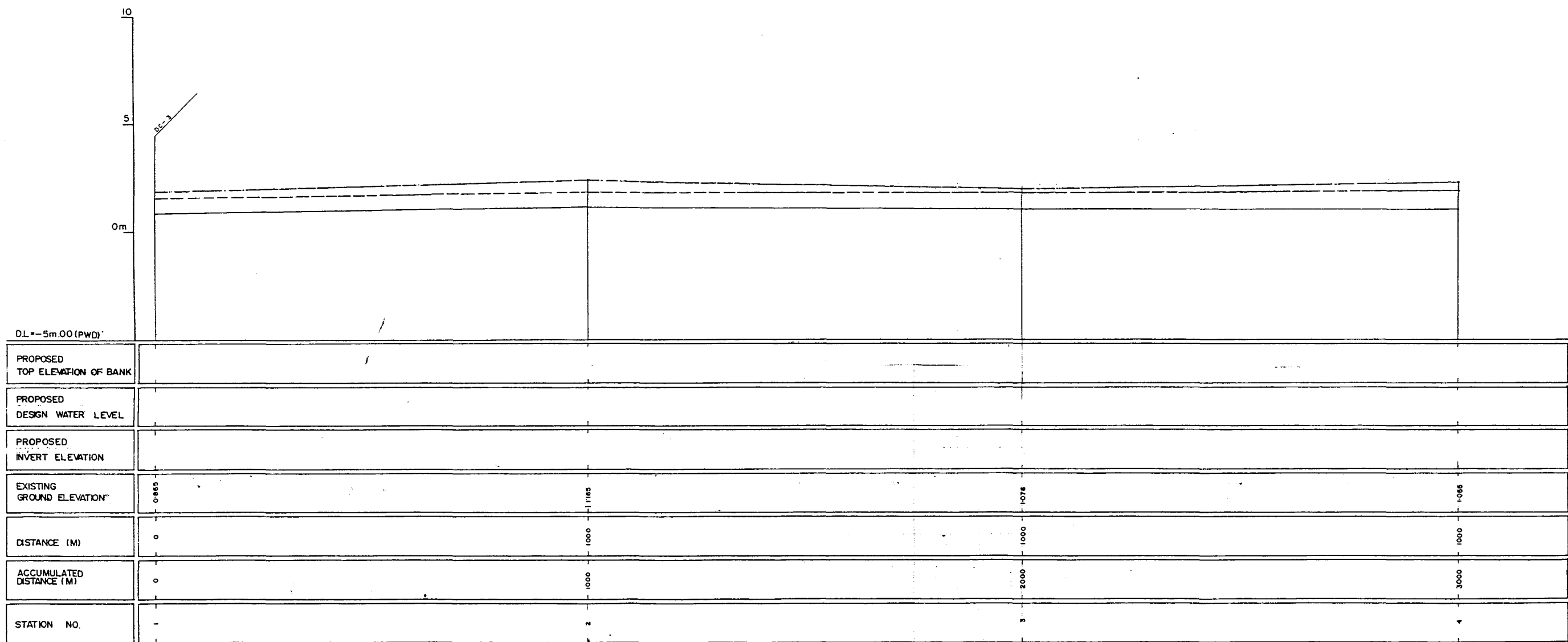
SCALE
H:1:5000
V:1:100

DWG.NO. KG L 21 DATE March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

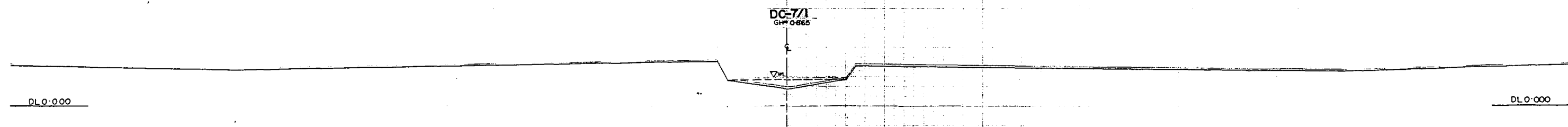
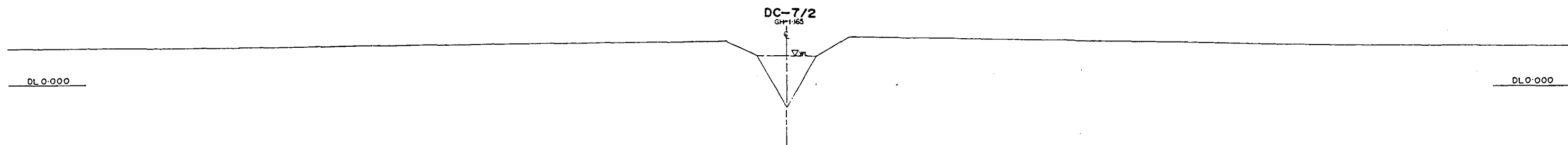


GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-6		SCALE	H = 1:200 V = 1:100
DWG. NO.	KG-C23	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UPSTREAM.

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL		
DC-7	SCALE	H:1:5000 V:1:100
DWG.NO. K G L 22	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY		



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-7		SCALE	H=1:200 V=1:100
DWG. NO.	R6 C 24	DATE	March, 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

DC-7/4

GH=1.068

C

▽WL

DL0.000

DL0.000

DC-7/3

GH=1.076

S

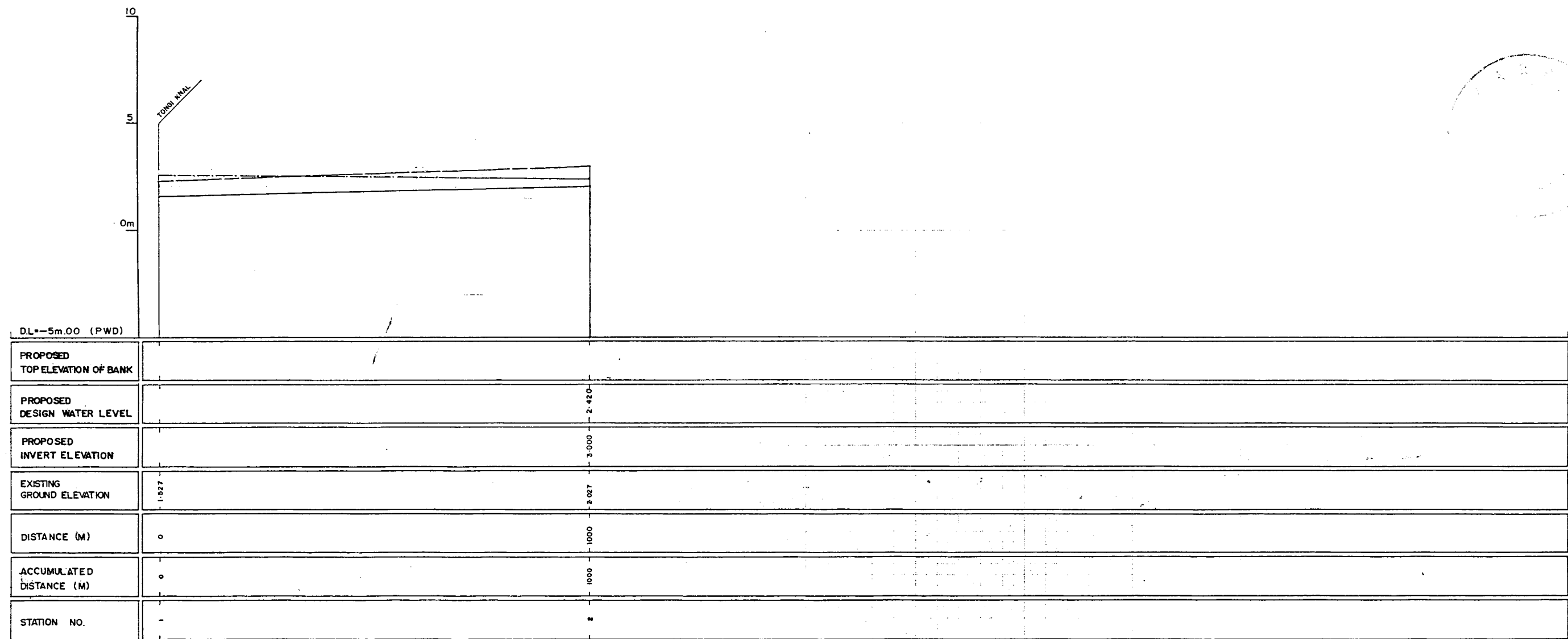
▽WL

DL 0.000

DL0.000

← L/R "FACING TO UP" STREAM.

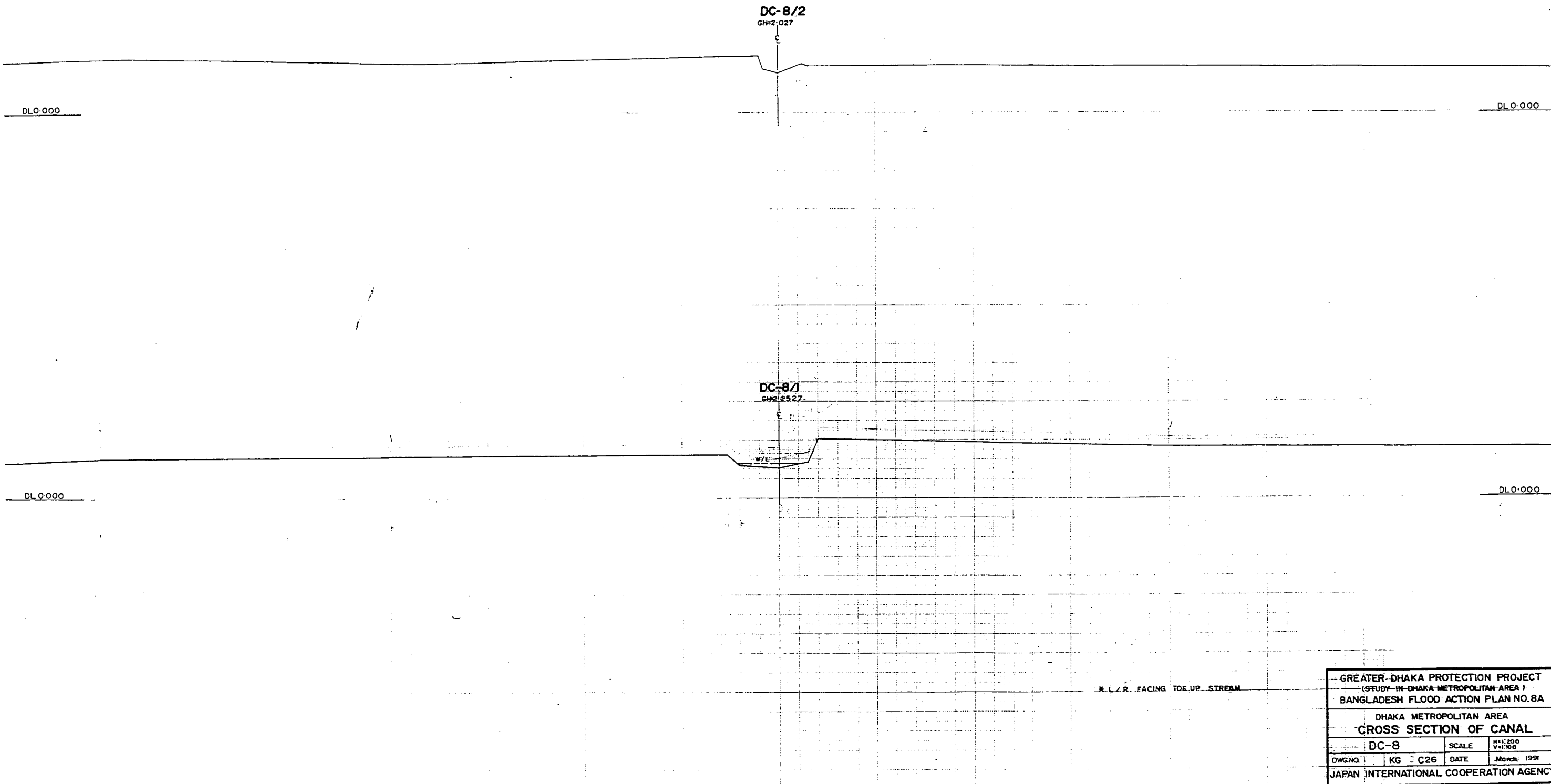
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-7		SCALE	1/4"=1'-0"
DWG. NO.	KG C25	DATE	March 1991
JAPAN-INTERNATIONAL COOPERATION AGENCY			



LEGEND
 EXISTING LEFT GROUND LINE -----
 EXISTING RIGHT GROUND LINE -----
 EXISTING BOTTOM LINE -----
 * L/R FACING TO UP STREAM

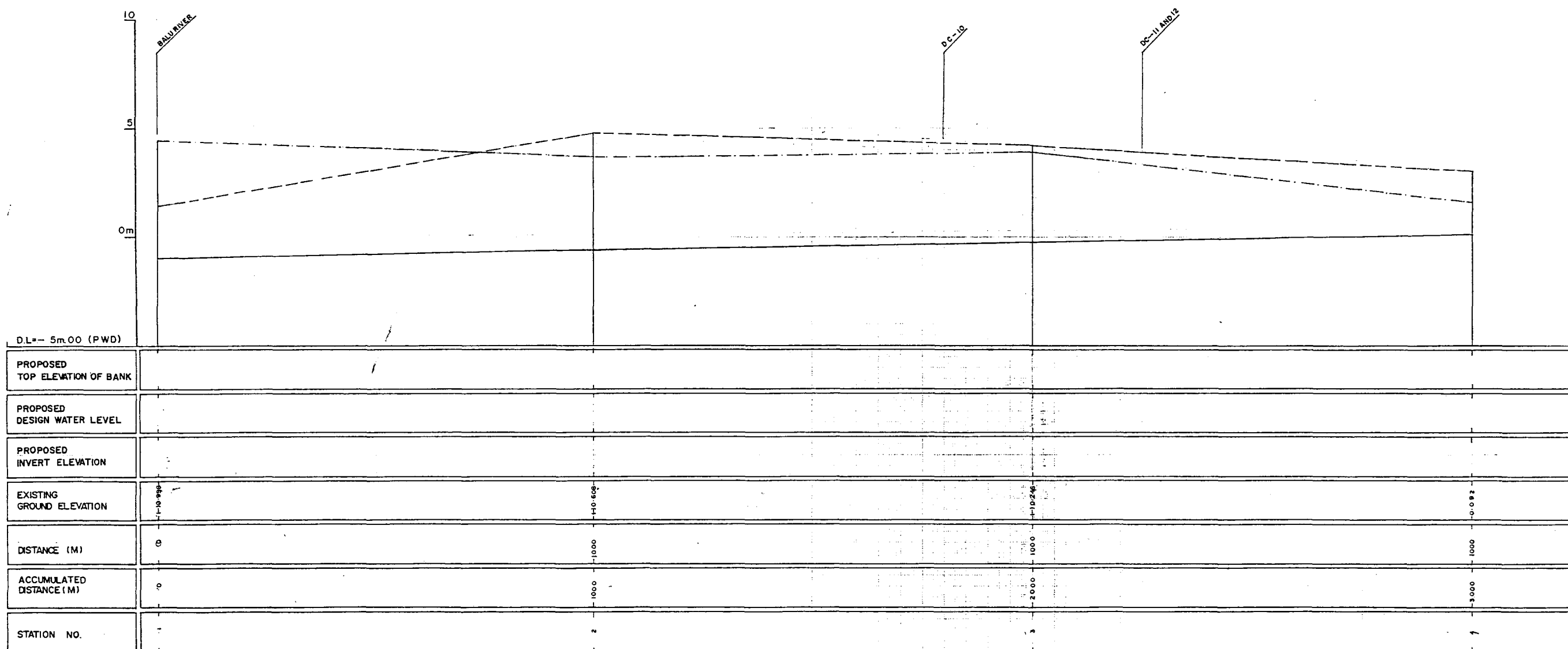
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-8		SCALE	H=1:5000 V=1:100
DWG. NO.	KG L23	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

29



GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-8	SCALE	H=1:200 V=1:100	
DWG. NO.	KG C26	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

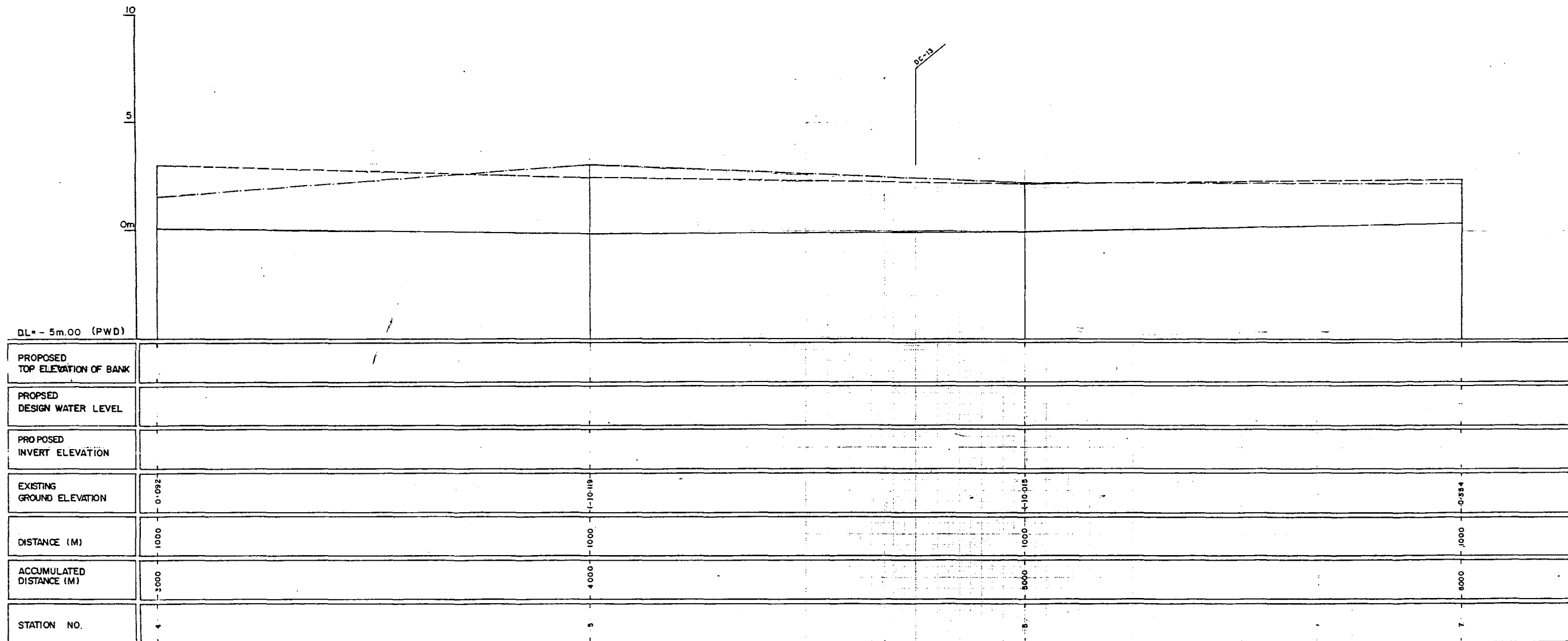
24



LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STEAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DC-9		SCALE	H/E 5000 V/H 100
DWG. NO.	KG L24	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

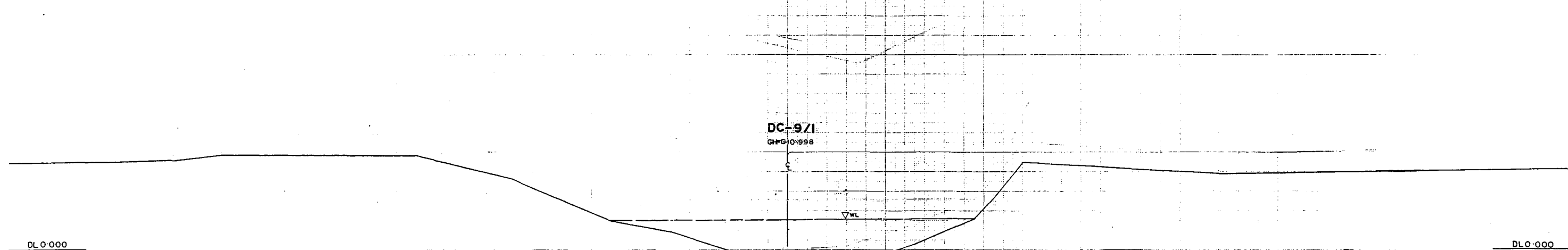
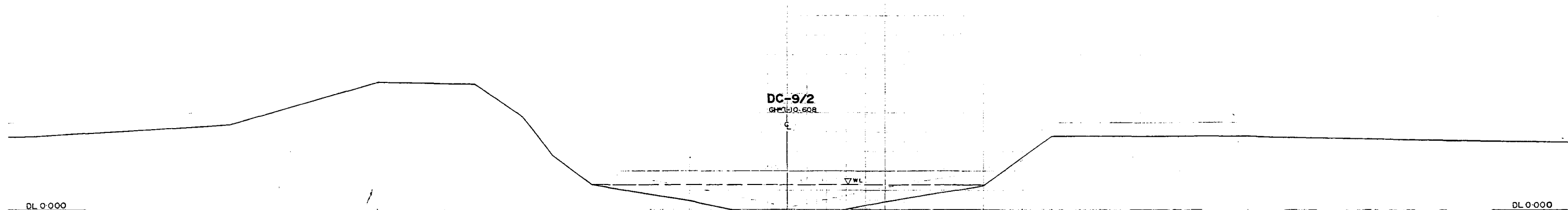
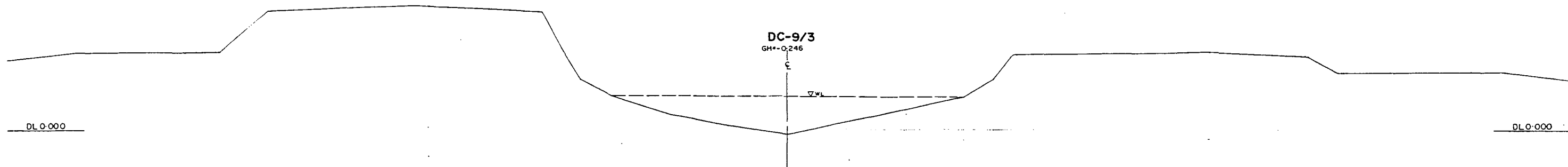
22



LEGEND
 EXISTING LEFT GROUND LINE
 EXISTING RIGHT GROUND LINE
 EXISTING BOTTOM LINE
 * L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DC-9	SCALE:	H=1:5000 V=1:100	
DWG. NO. KG L25	DATE	March 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			

280



* L/R, FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-9		SCALE	H=1:200 V=1:100
DWG. NO.	KG C27	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

DC-9/6

GM+0.05

C

▽ W/L

DL=0.000

DL=0.000

DC-9/5

GM+0.119

C

▽ W/L

DL=0.000

DL=0.000

DC-9/4

GM+0.052

C

▽ W/L

DL=0.000m

DL=0.000

L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY - IN - DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-9	SCALE	H=1:200 V=1:100	
DWG. NO.	3KG C28	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

202

DC-9/8
DH = 0.032

ε

▽ W/L

DLO-000

DLO-000

DC-9/7
GHPO354

ε

▽ W/L

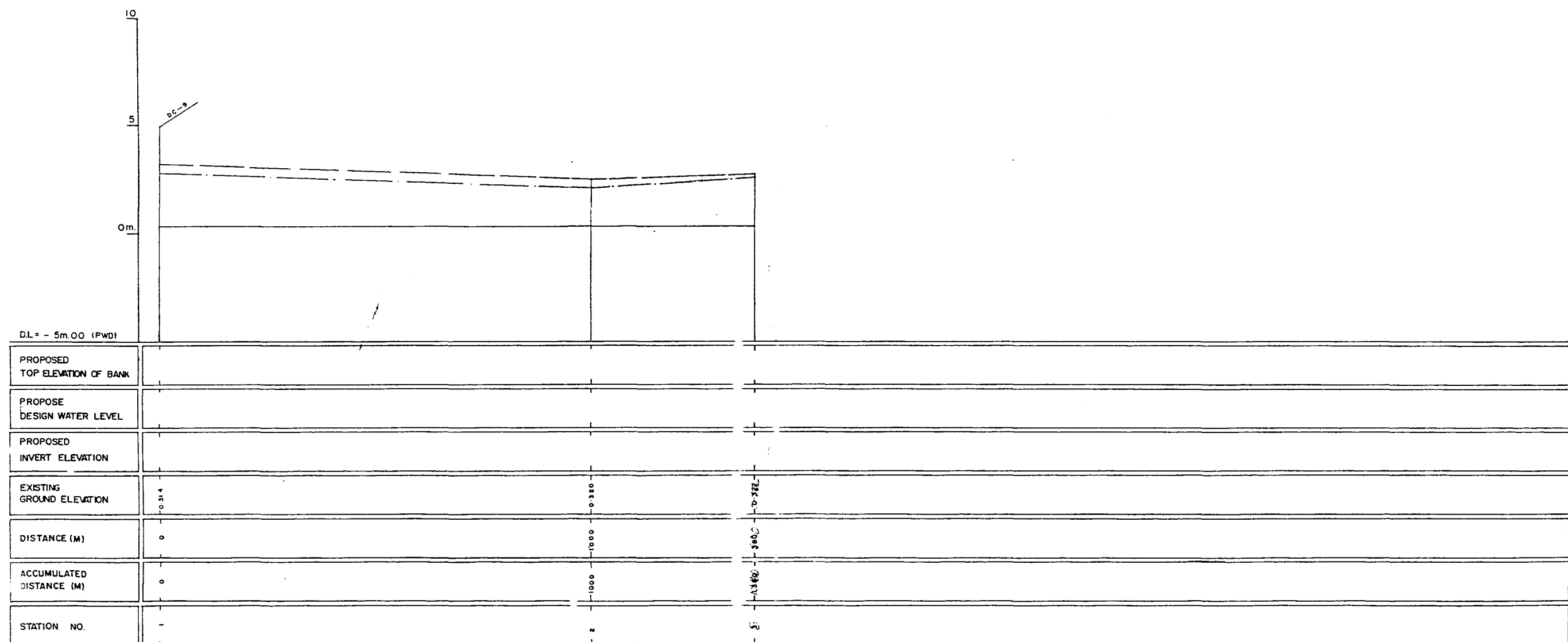
DLO-000

DLO-000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-9		SCALE	H=1200 V=1300
DWG. NO.	KG C29	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

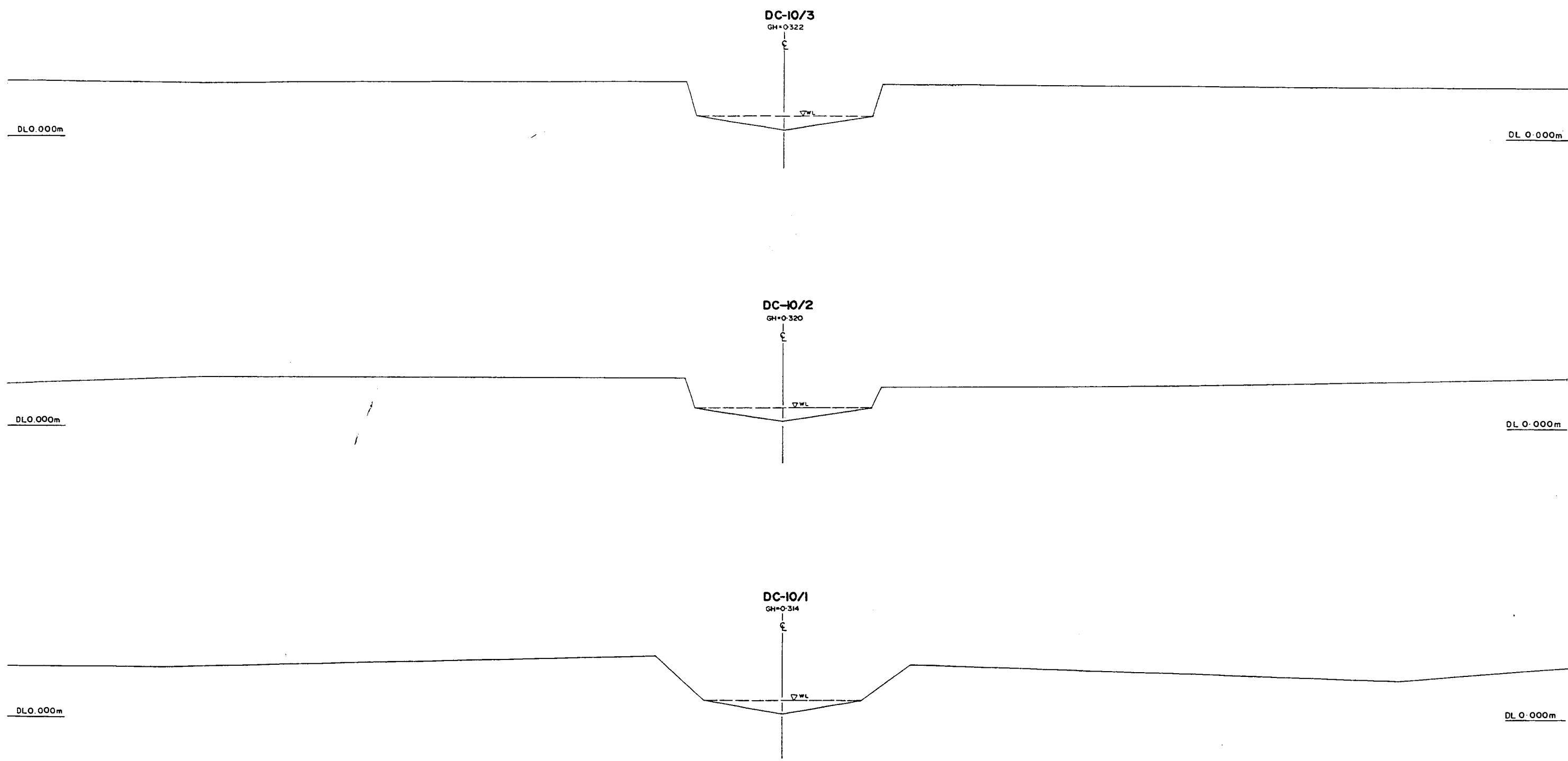
326



LEGEND
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EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

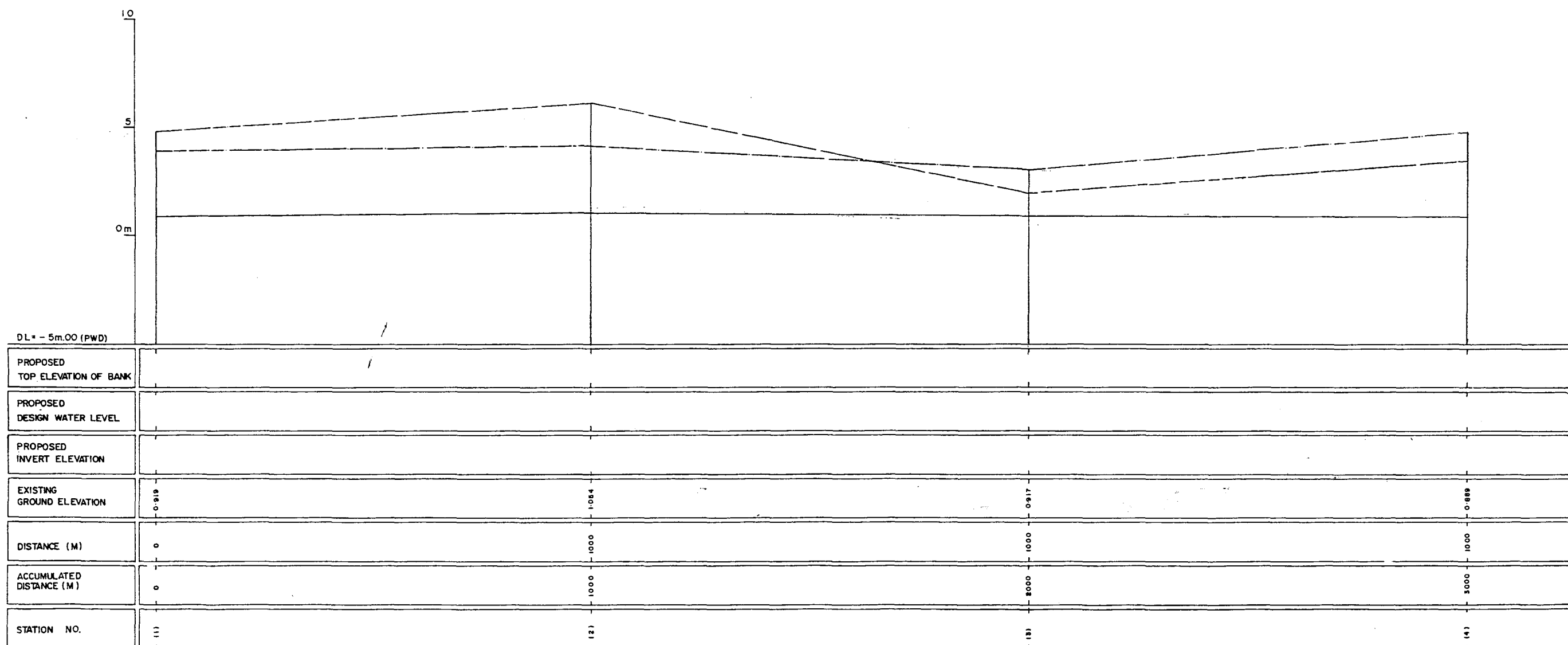
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-10		SCALE	H=1:5000 V=1:100
DWG. NO.	KG L26	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

208



* L/R FACING TO UP STREAM

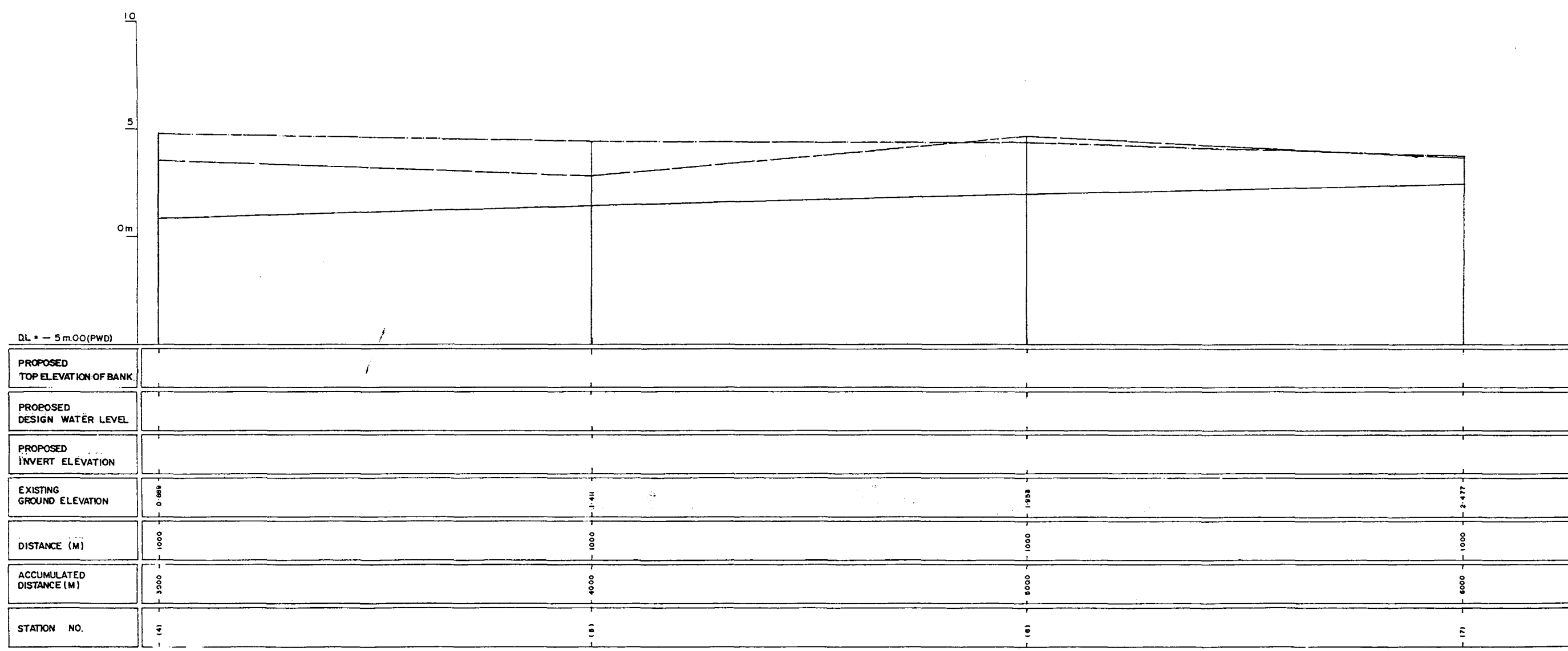
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-10		SCALE	H _v 1:200 V _v 1:100
DWG. NO.	KG C30	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			



LEGEND
 EXISTING LEFTGROUND LINE - - - - -
 EXISTING RIGHT GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 * L/R FACING TO UPSTREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC- II		SCALE	H=1:5000 V=1:100
DWG. NO.	KG L28	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

203



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

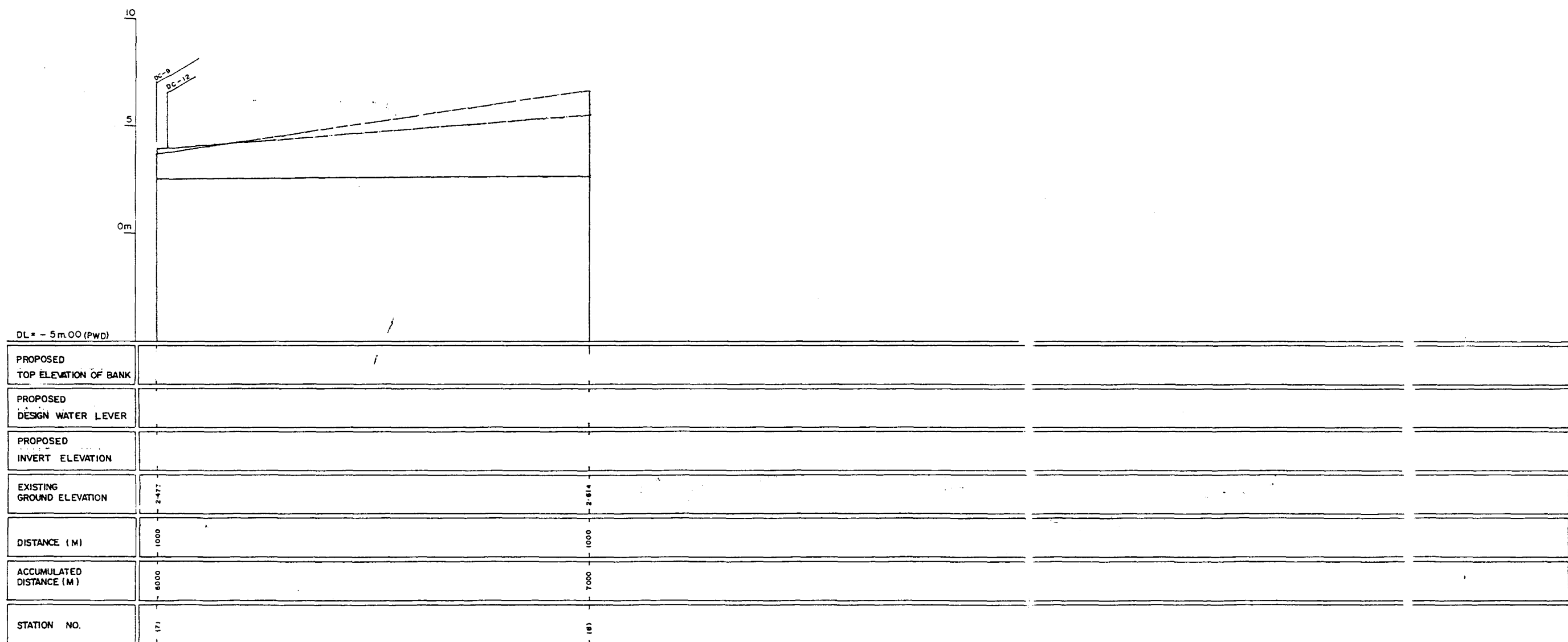
DC-II

DWG.NO. KG L29

SCALE H:1:5000
V:1:100

DATE March 1991

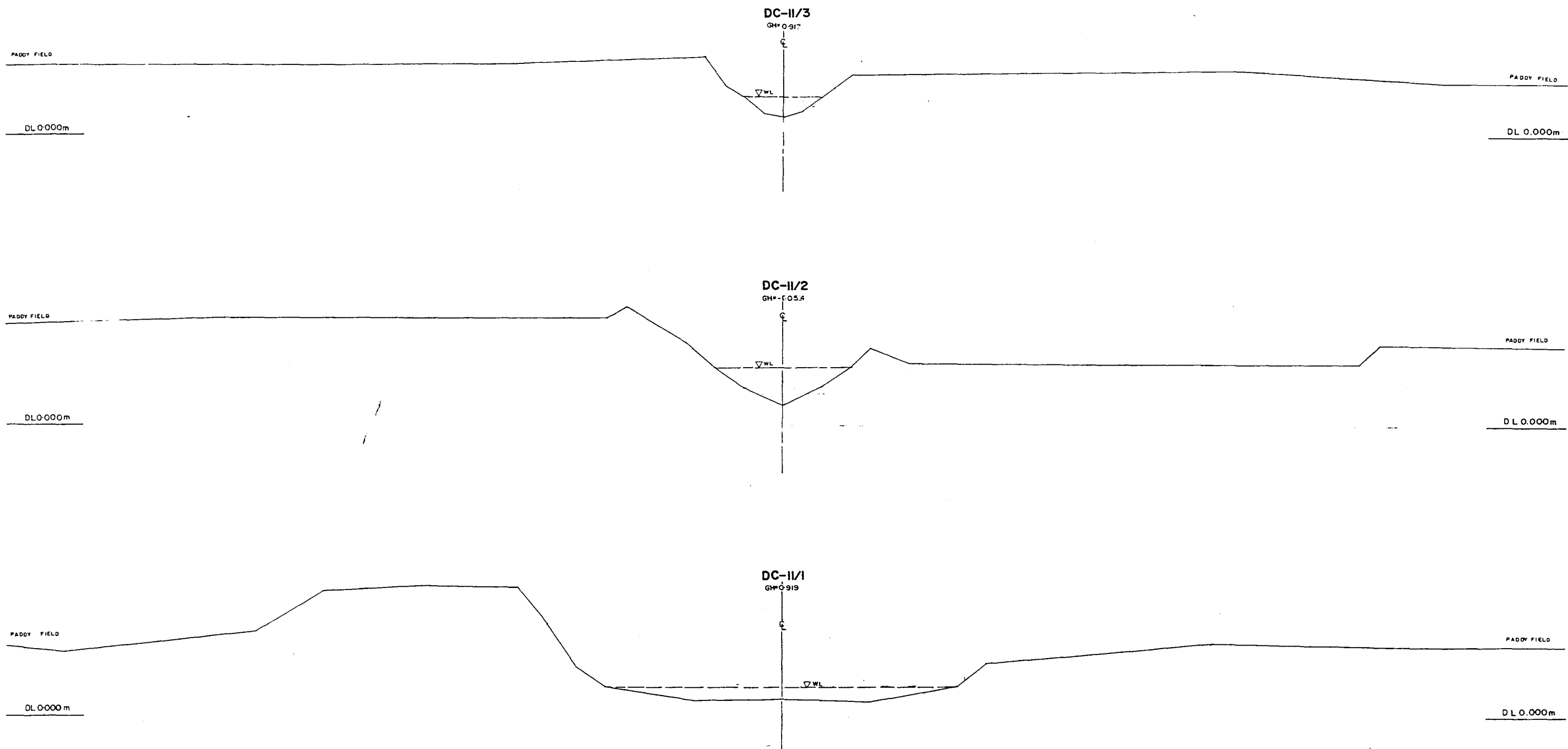
JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND
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EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-11	SCALE	H=1:5000 V=1:100	
DWG.NO. KG L27	DATE	March 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			

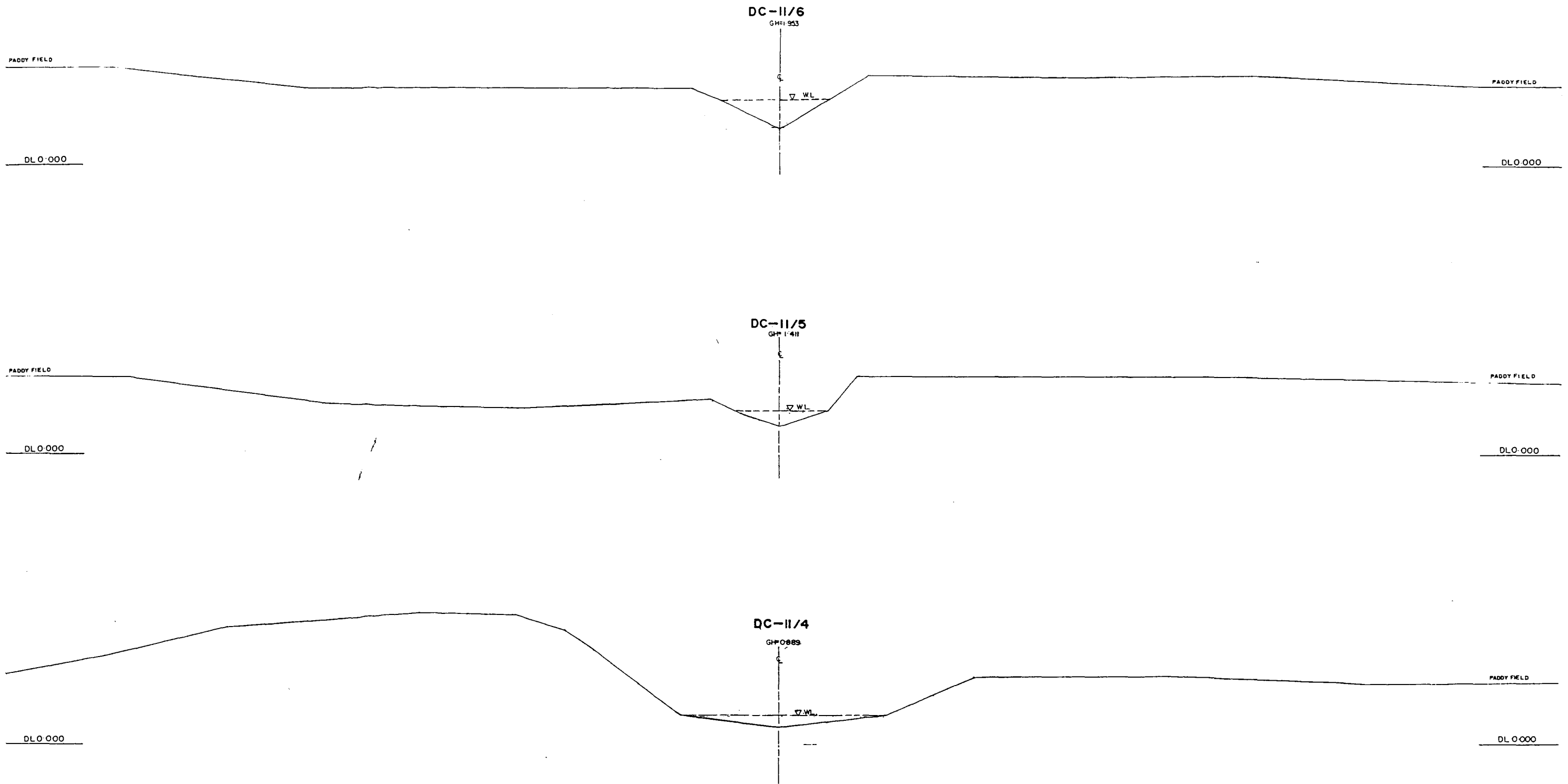
206



*L/R FACING TO UP STREAM

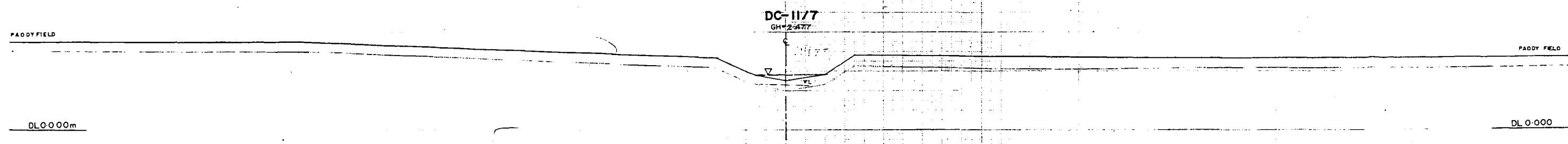
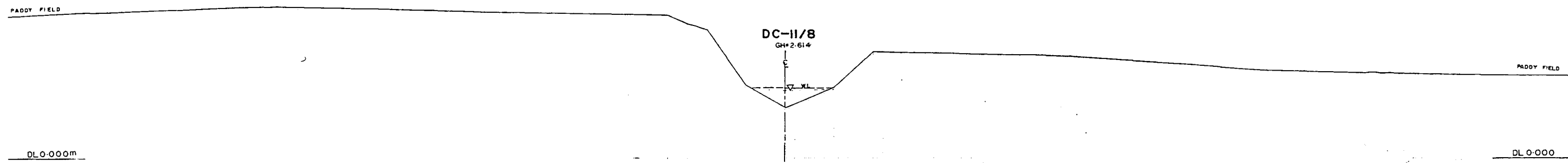
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-II		SCALE	H=1:200 V=1:100
DWG. NO.	KG-C31	DATE	March 1991
JAPAN INTERNATIONAL CO-OPERATION AGENCY			

282



* L/R FACING TO UP STREAM

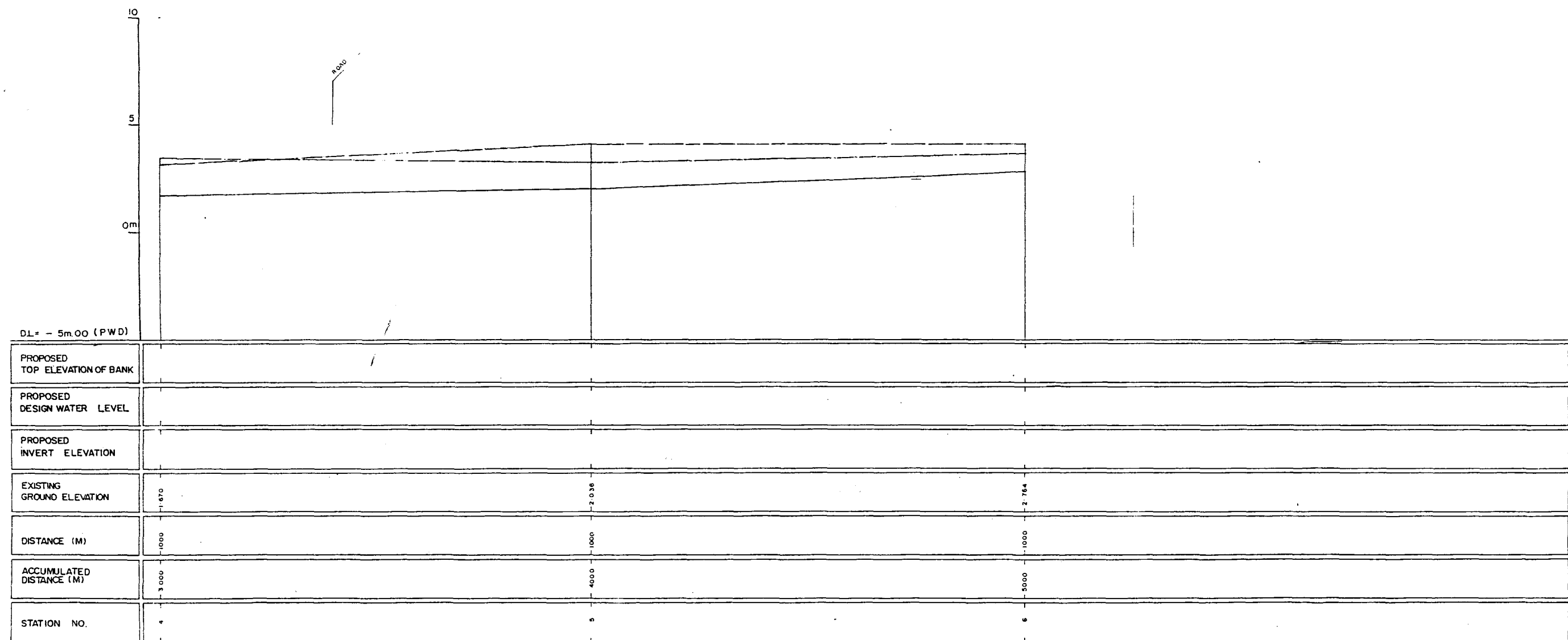
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
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DC- II		SCALE	H=1:200 V=1:500
DWG. NO.	KG - C32	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-II		SCALE	H=1:200 V=1:300
DWG. NO.	KS-C33	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

882



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

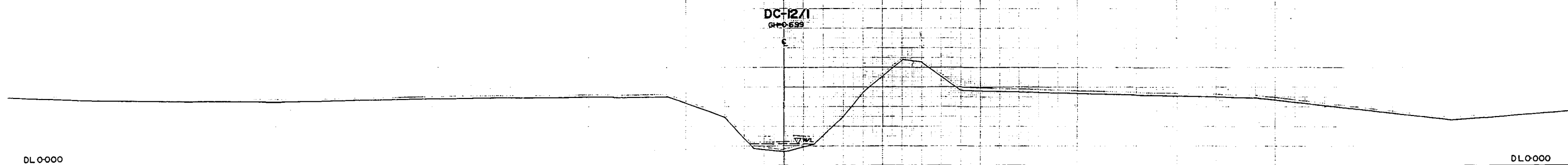
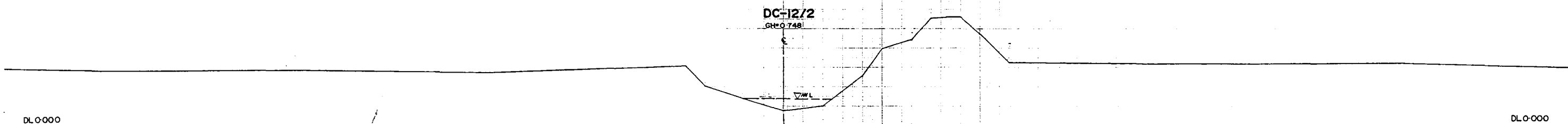
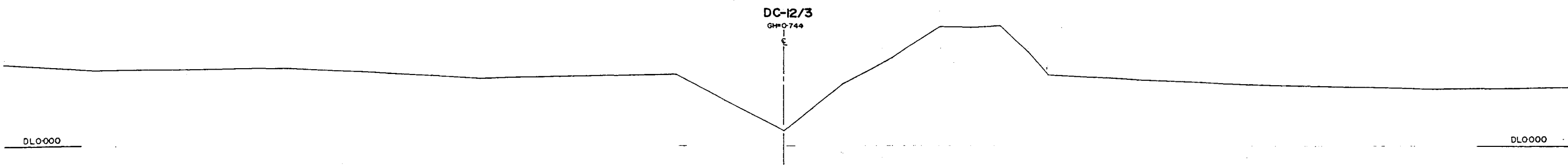
DC-12

DWG.NO. KG L31 DATE March 1991

SCALE H: 1:5000 V: 1:1000

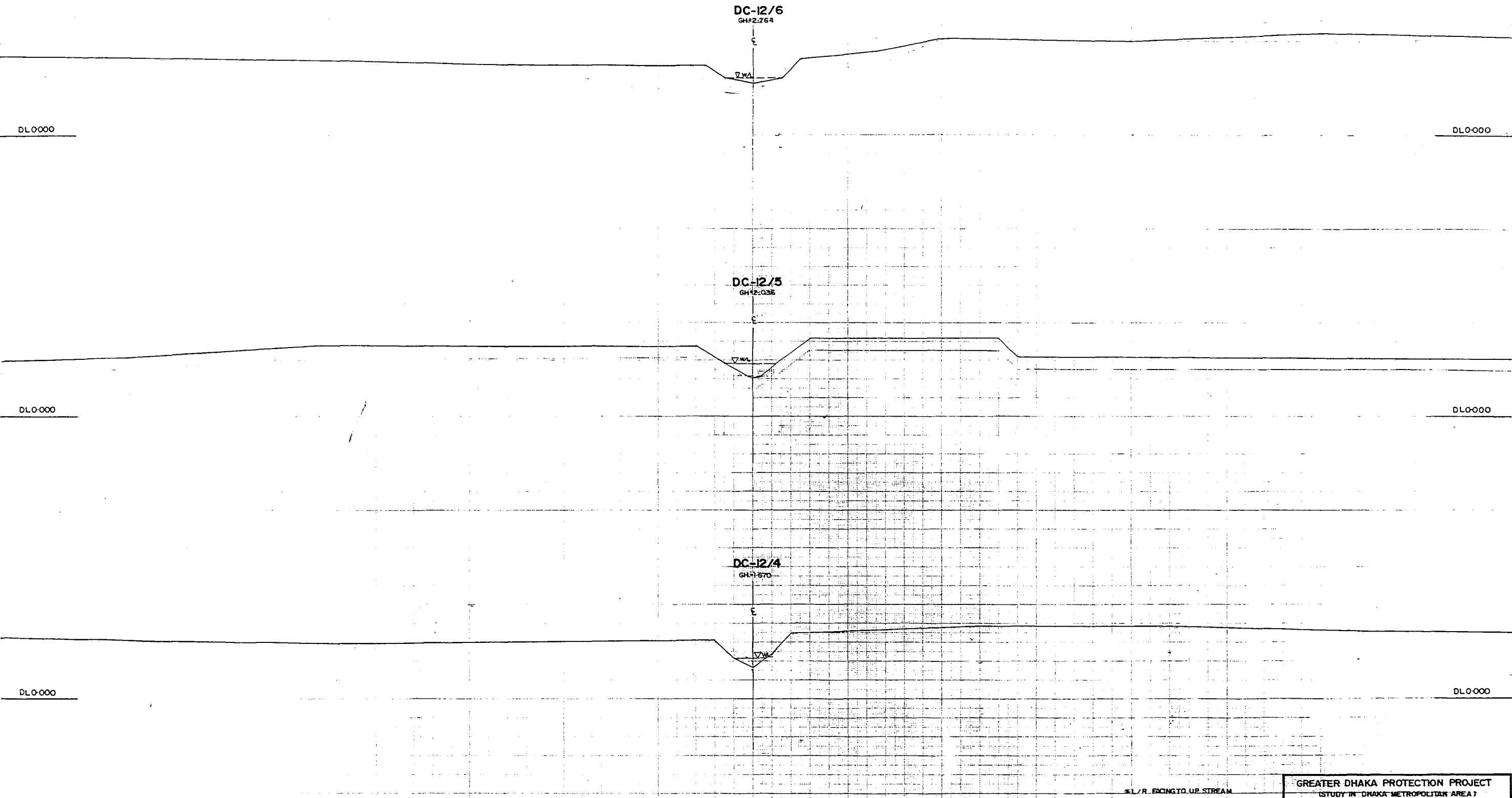
JAPAN INTERNATIONAL COOPERATION AGENCY

270



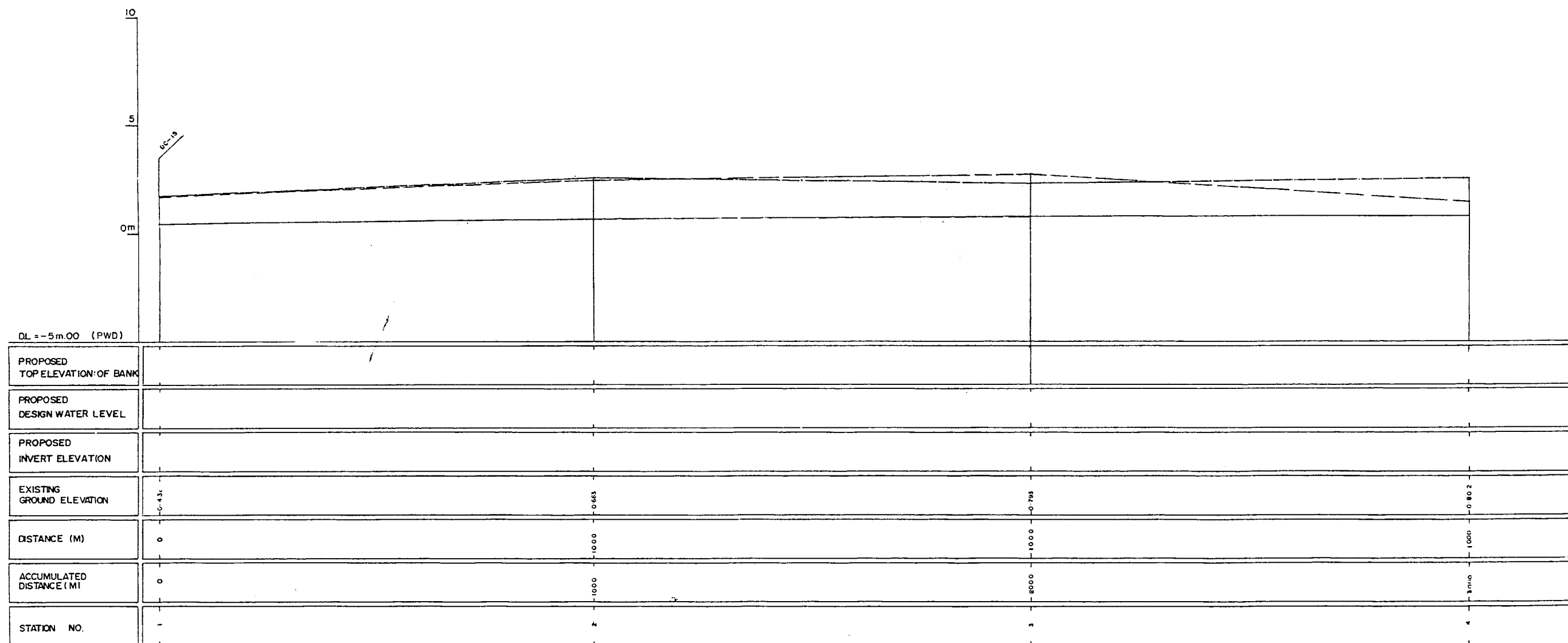
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-12		SCALE	H=1200 V=300
DWG. NO.	KG. C34	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



GREATER DHAKA PROTECTION PROJECT			
[STUDY IN DHAKA METROPOLITAN AREA]			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-12		SCALE	H=1:200 V=1:1000
DWG. NO.	KG C35	DATE	March 1991
JAPAN-INTERNATIONAL COOPERATION AGENCY			

220



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-13		SCALE	H: 1:5000 V: 1:100
DWG. NO.	KG L.32	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

224

DC-13/4
GH=0.802

W/L

DL=0.00m

DL=0.00m

DC-13/3
GH=0.793

W/L

DL=0.00m

DL=0.00m

DC-13/2
GH=0.663

W/L

DL=0.00m

DL=0.00m

DC-13/1
GH=0.432

W/L

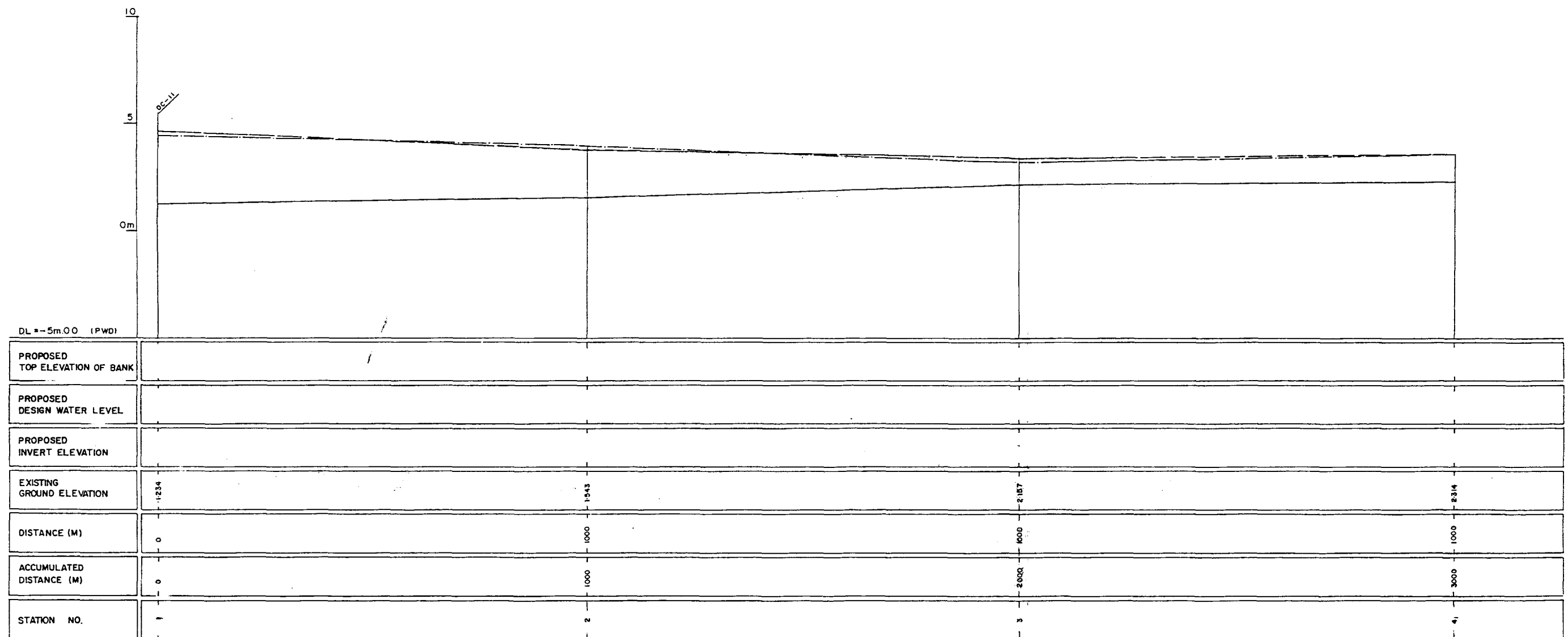
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* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-13		SCALE	H=1:200 V=1:100
DWG NO	KG C36	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

229



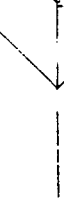
LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-14		SCALE	H: 1: 5000 V: 1: 100
DWG. NO.	KG. L33	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

১১৫

DC-14/2

GH# 1-543

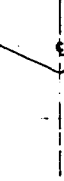


DL 0+000

DL 0+000

DC-14/1

GH# 1-234



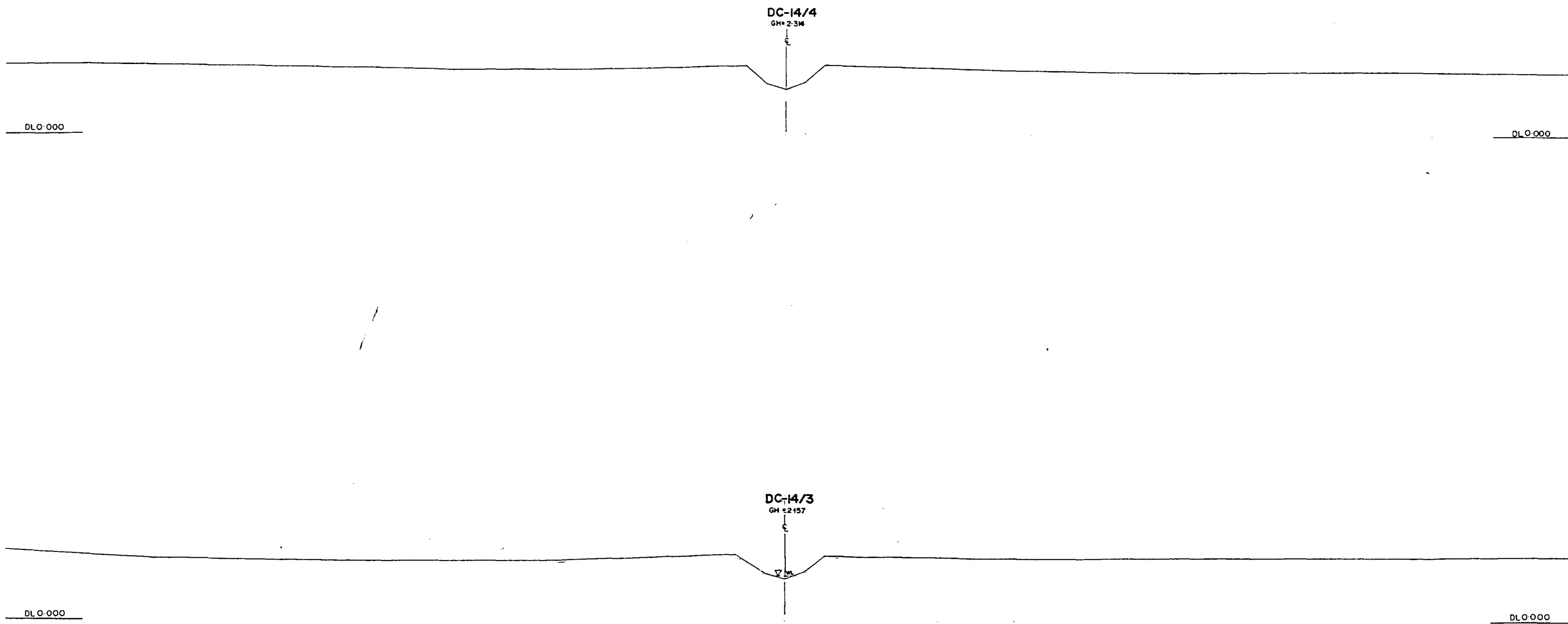
DL 0+000

DL 0+000

1/2 R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-14		SCALE	H=1:200 V=1:100
DWG. NO.	KG C37	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

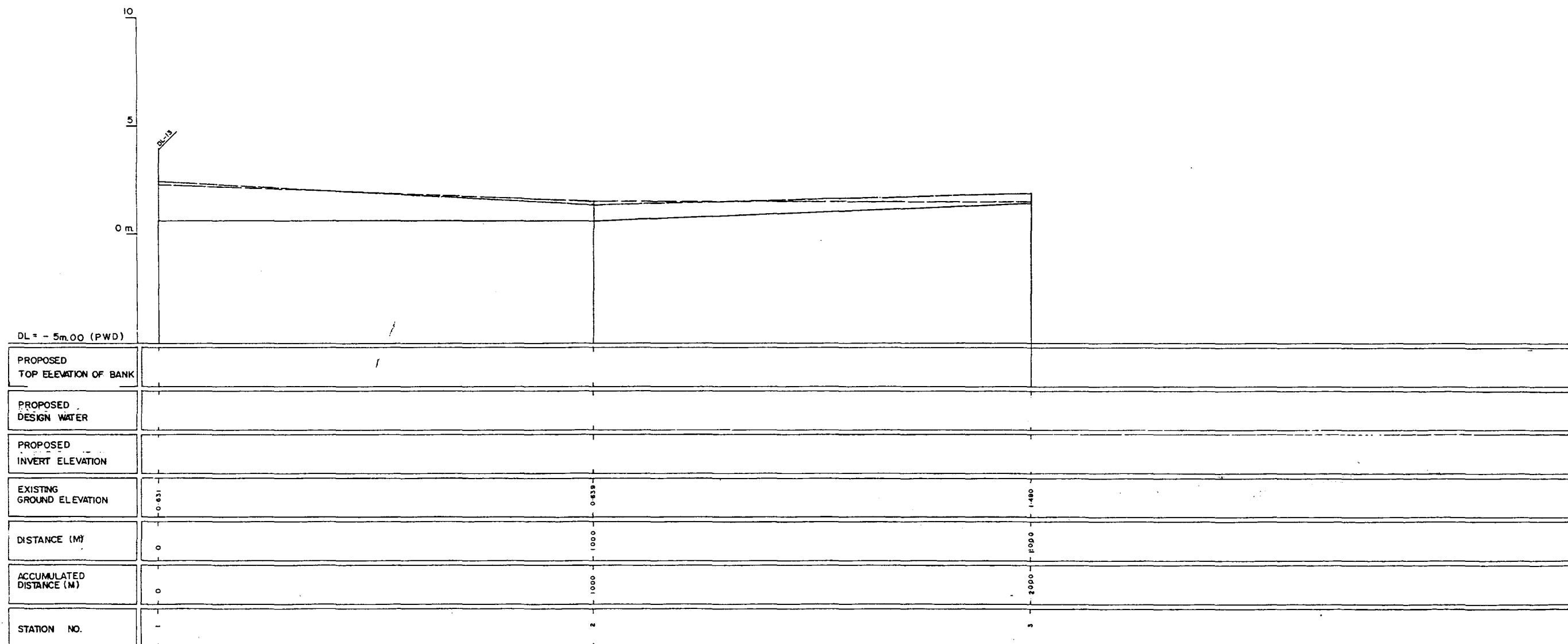
১১২



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-14	SCALE	H=1:200	V=1:100
DWG.NO.	KG C38	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

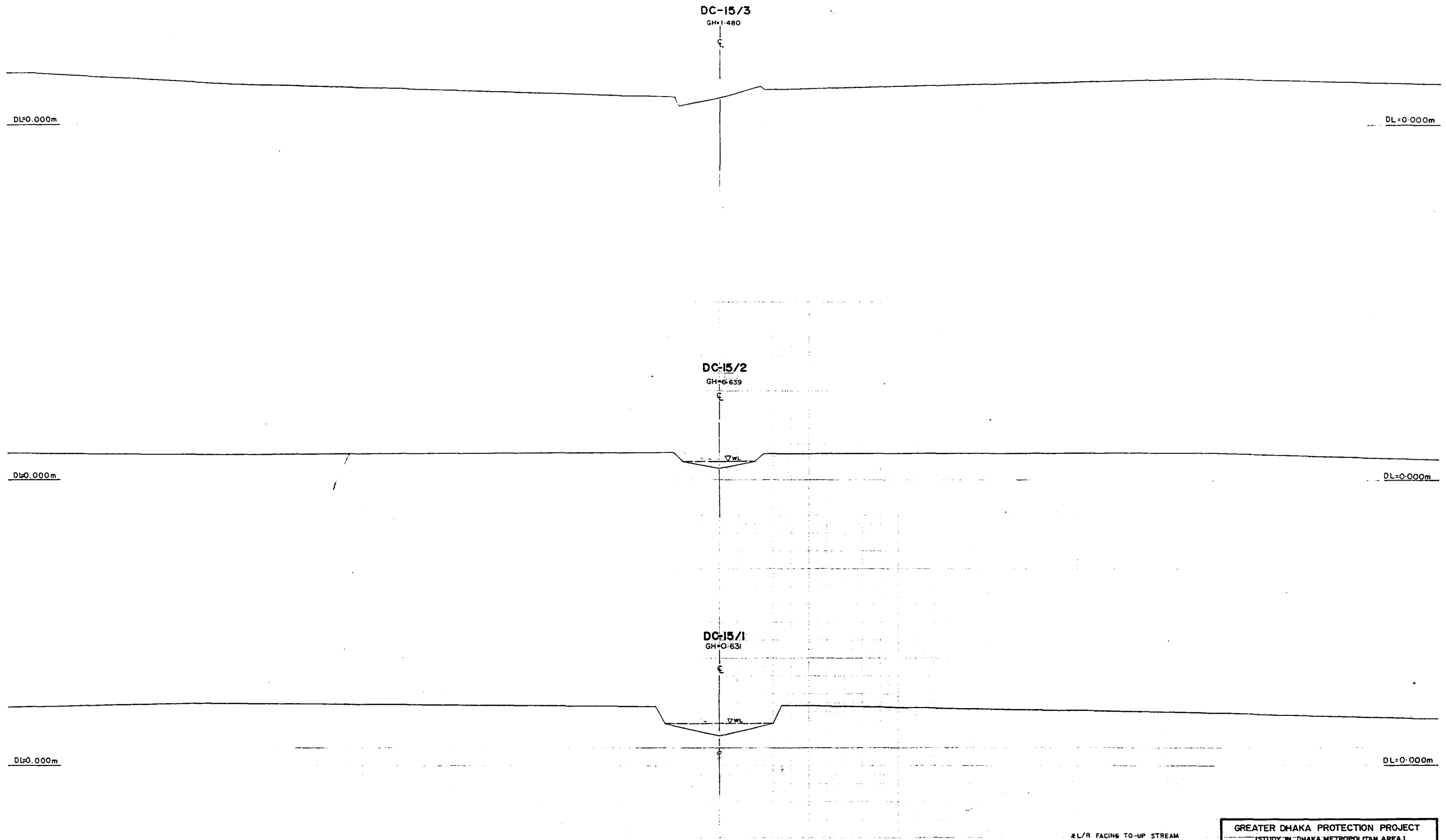
228



LEGEND
EXISTING LEFTGROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R. FACING TO UP STREAM

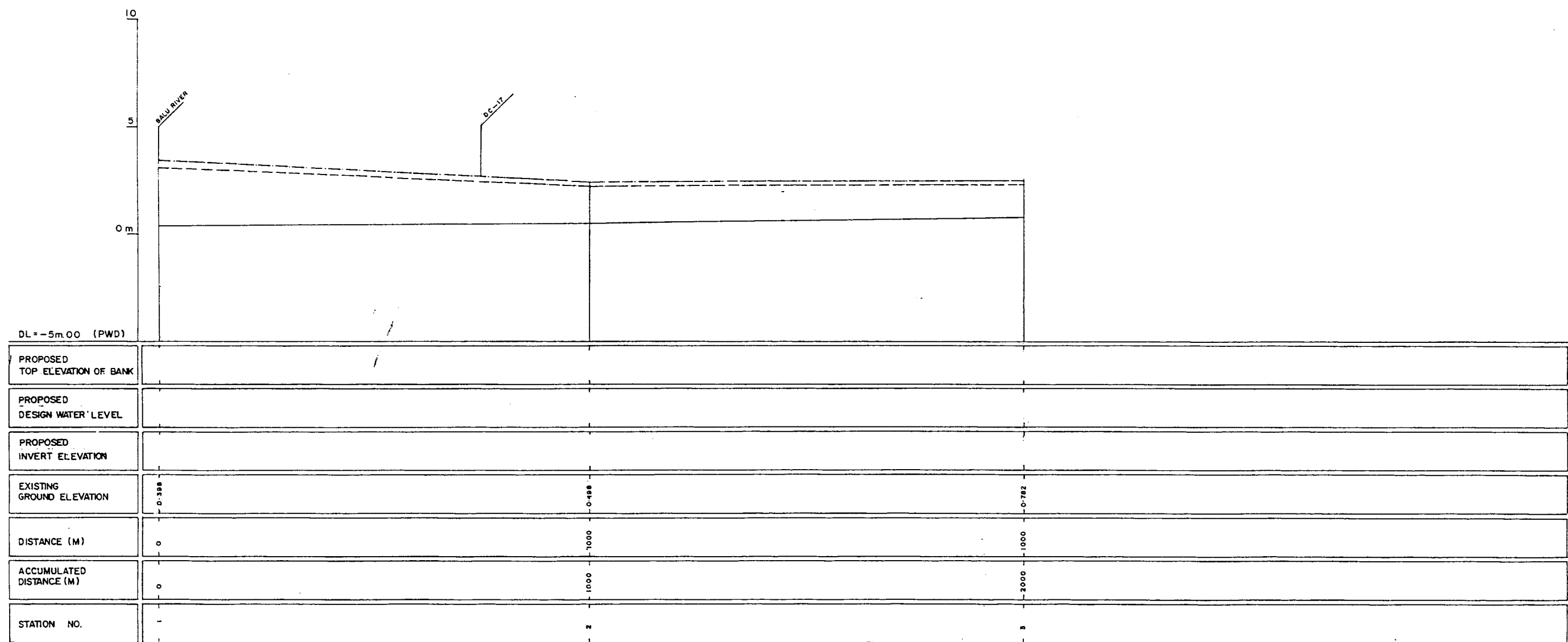
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-15		SCALE	H:1:5000 V:1:100
DWG.NO.	KG L34	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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GREATER DHAKA PROTECTION PROJECT		
(STUDY IN DHAKA METROPOLITAN AREA I)		
BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA		
CROSS SECTION OF CANAL		
DC-15		SCALE H=1:200 V=1:100
DWG NO.	KG: C39	DATE March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY		

22



LEGEND
EXISTING LEFTGROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DC-16		SCALE	H:V:5000 V:1:100
DWGNO.	KG L 35	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

226

DC-16/3

GH=0.782

ε

▽WL

DL=0.000m

DL=0.000m

DC-16/2

GH=0.458

ε

▽WL

DL=0.000m

DL=0.000m

DC-16/1

GH=0.398

ε

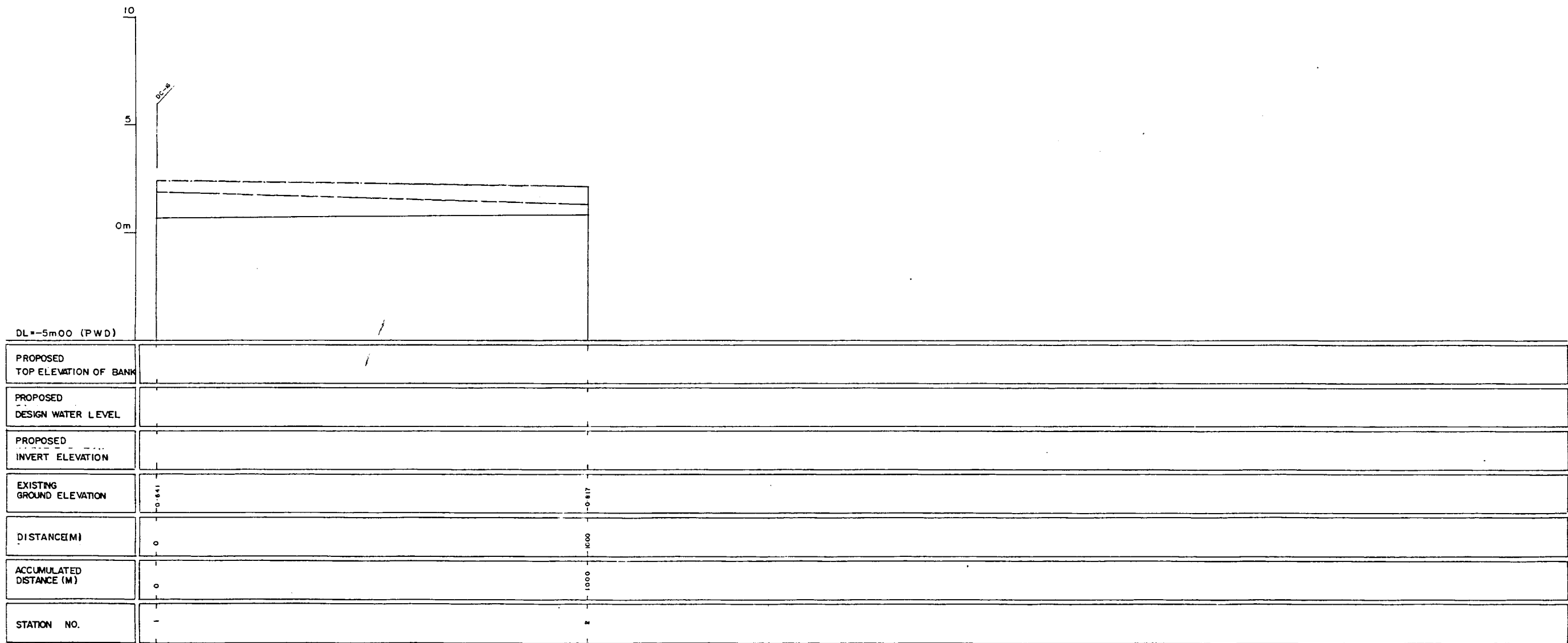
▽WL

DL=0.000m

DL=0.000m

L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-16	SCALE	H=1200	W=100
DWG. NO.	KG: G.40	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

DC-17

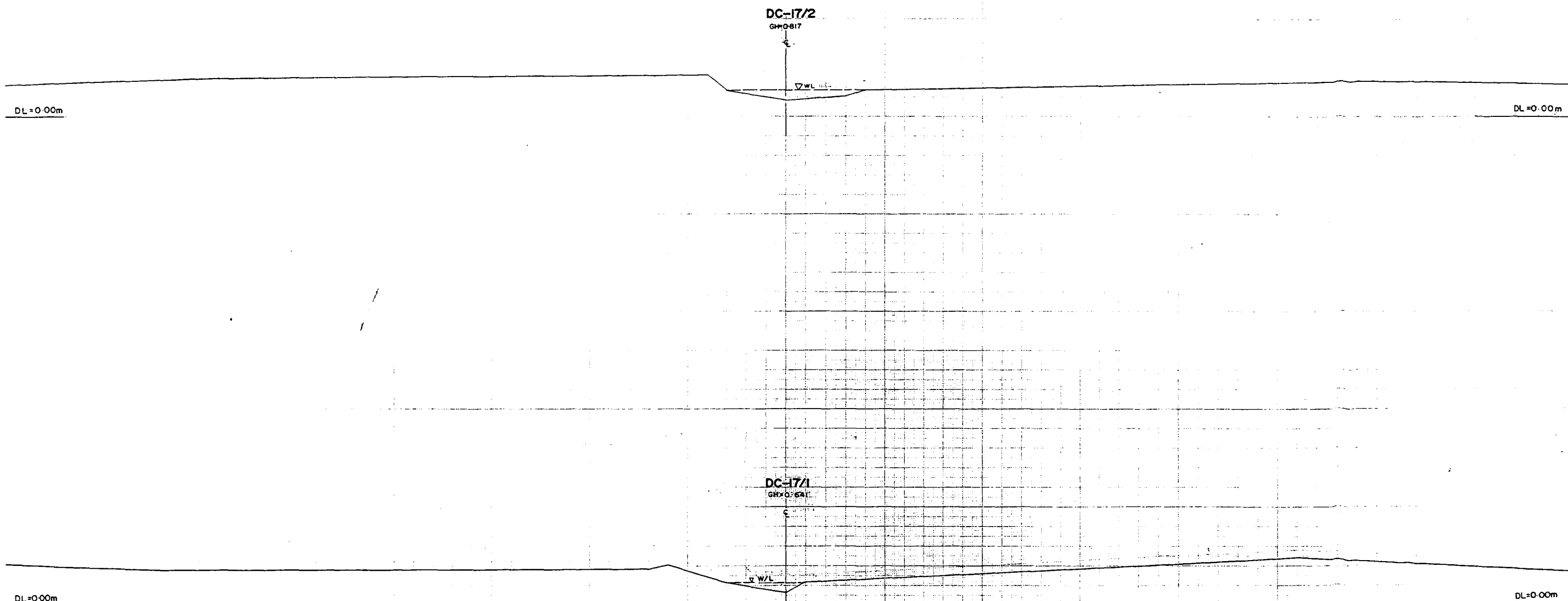
DWG. NO. KG L 36

SCALE

DATE

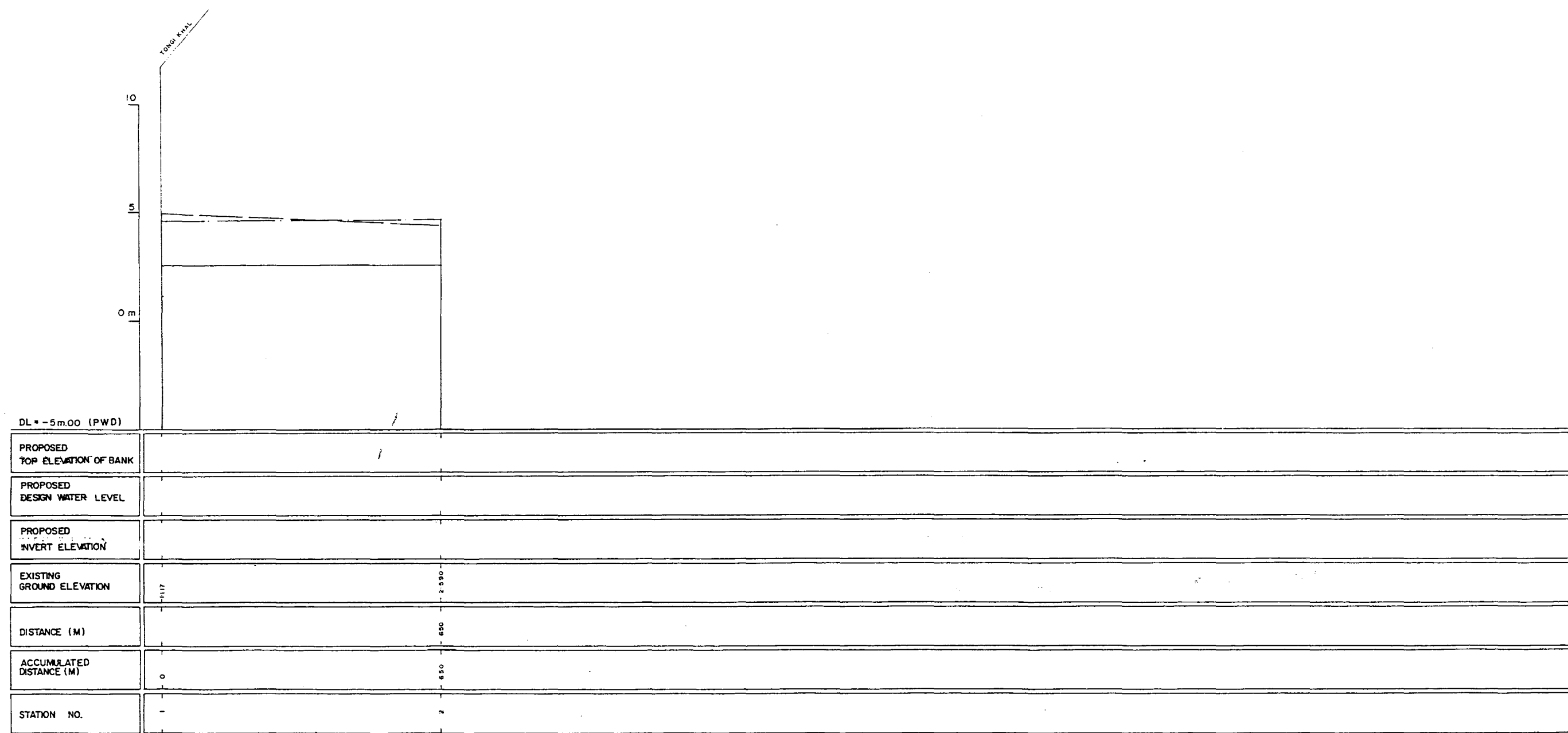
H=1:5000
V=1:100
March, 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



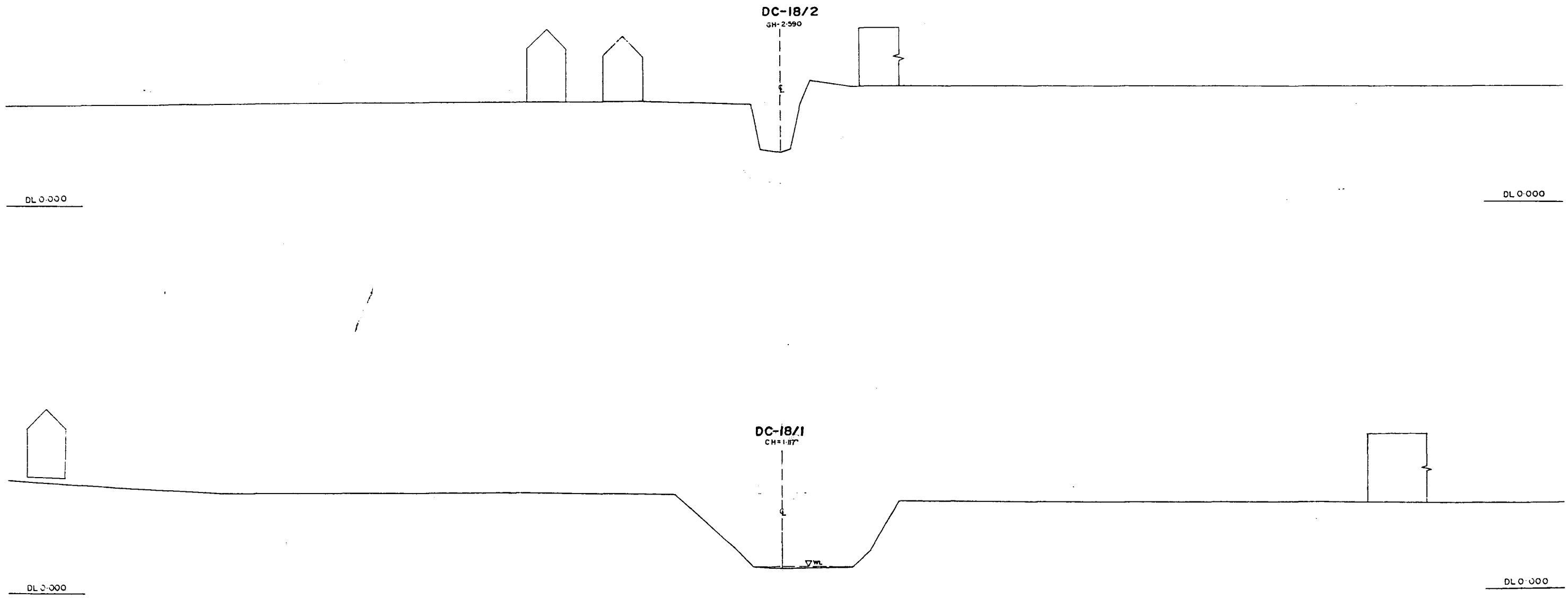
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA 1			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-17	SCALE	W=1:200	V=1:100
DWG. NO.	KG 041	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
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EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

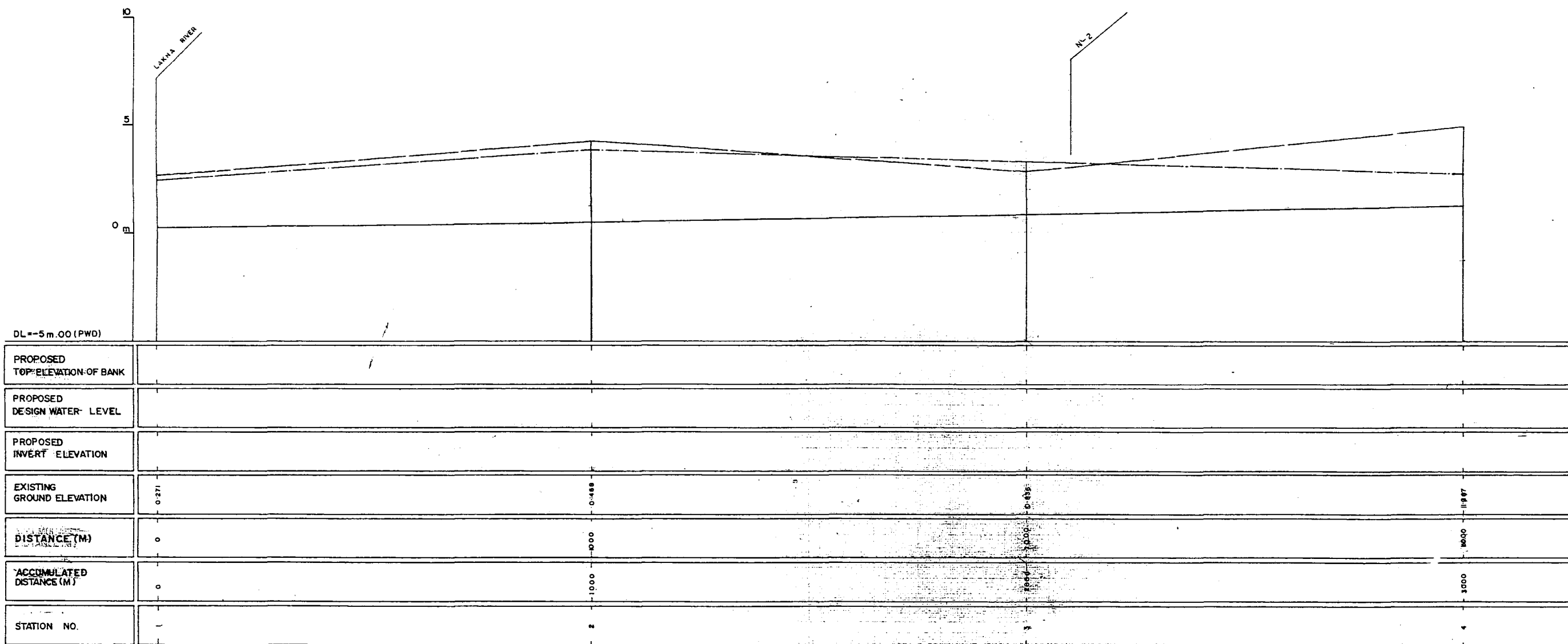
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DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-18		SCALE	H=1:5000 V=1:100
DWG.NO.	KG L37	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

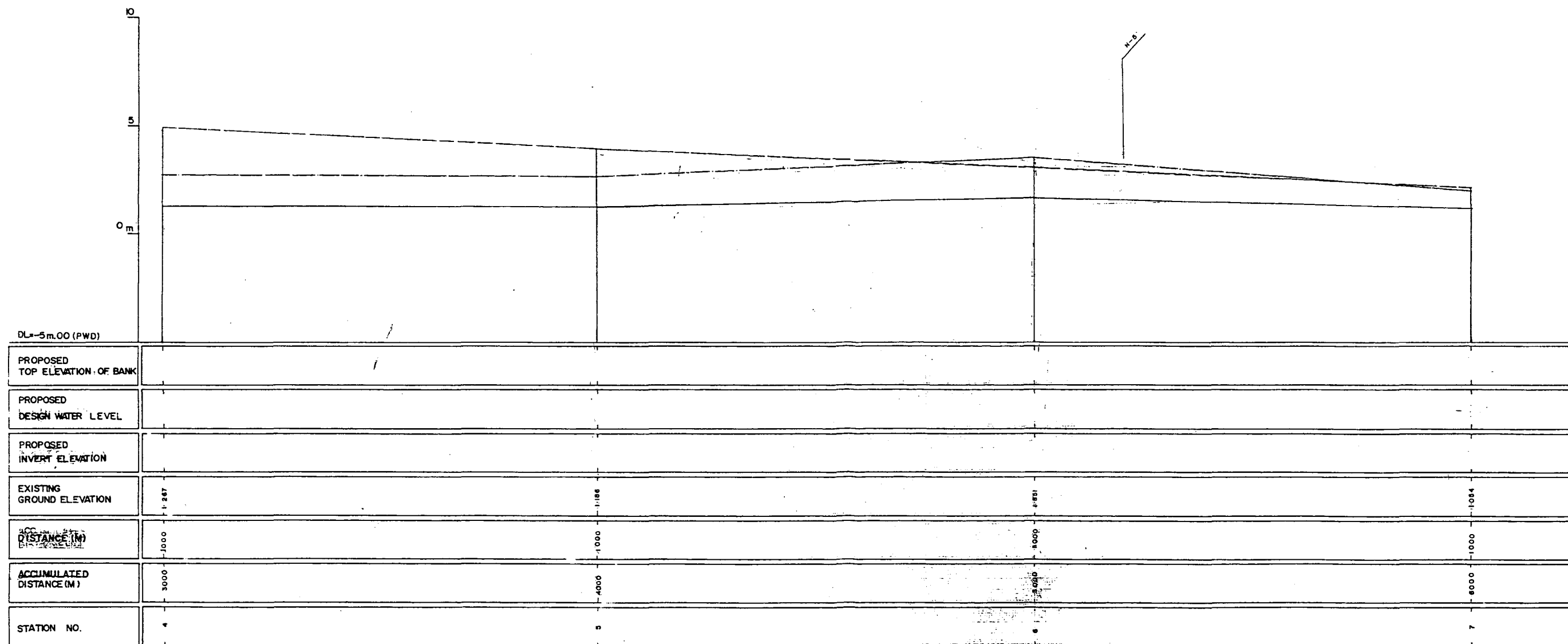
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-18		SCALE	1/1200 1/1100
DWG NO	KG C42	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

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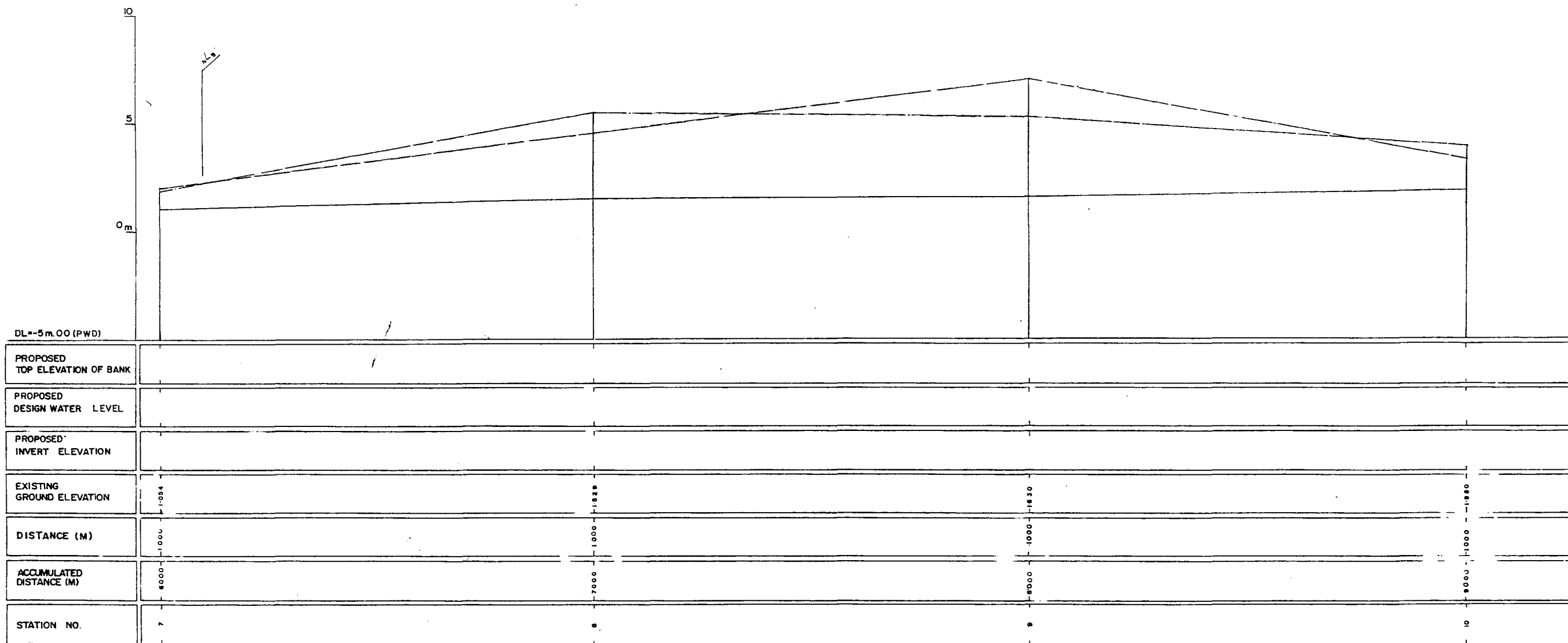
LEGEND
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 EXISTING RIGHT GROUND LINE
 EXISTING BOTTOM LINE
 * L/R FACING TO-UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-1	SCALE	H=1:5000 V=1:100	
DWG. NO. KN LI	DATE	March 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			



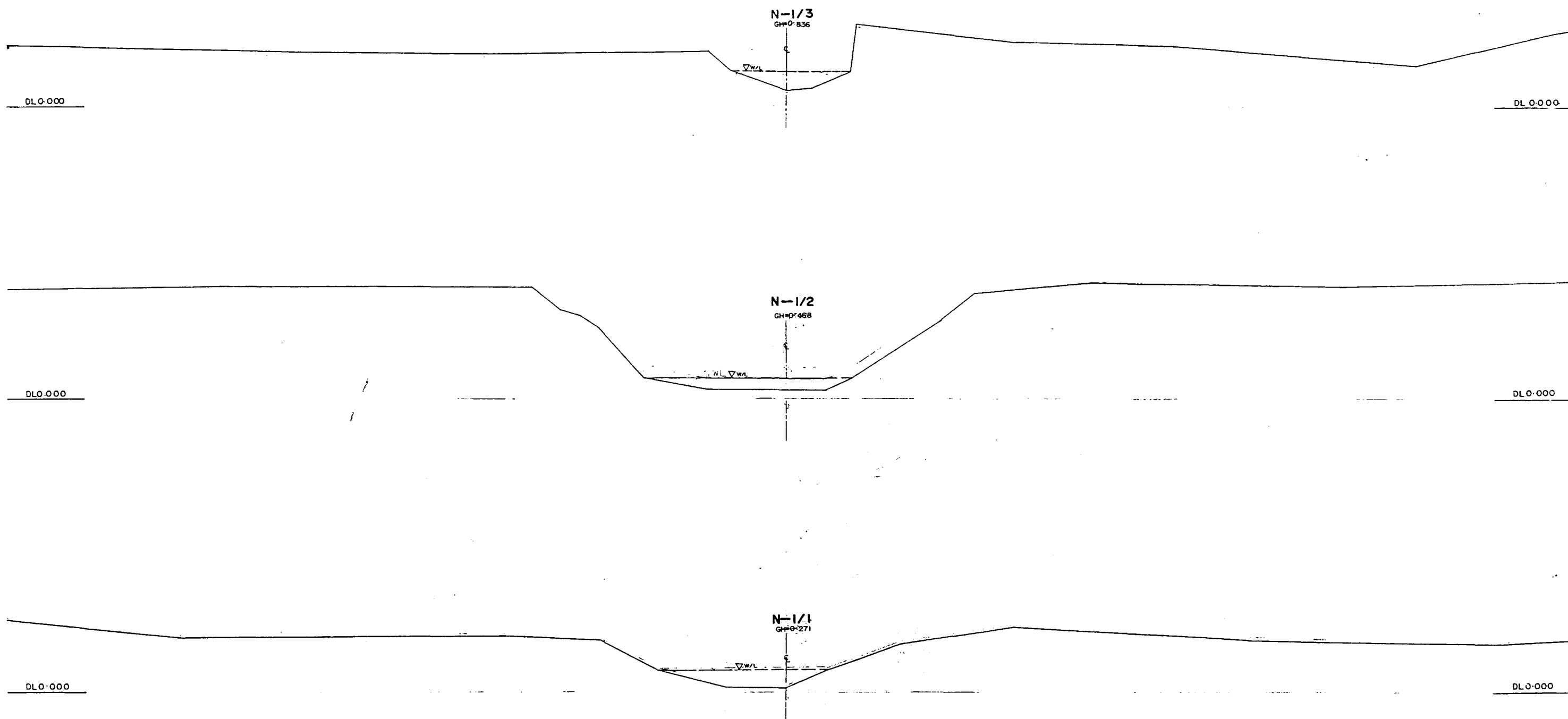
LEGEND
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 EXISTING RIGHT GROUND LINE -----
 EXISTING BOTTOM LINE -----
 * L/R FACING TO UP-STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-1	SCALE	H=1:5000 V=1:100	
DWG. NO. KN-L2	DATE	March 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			



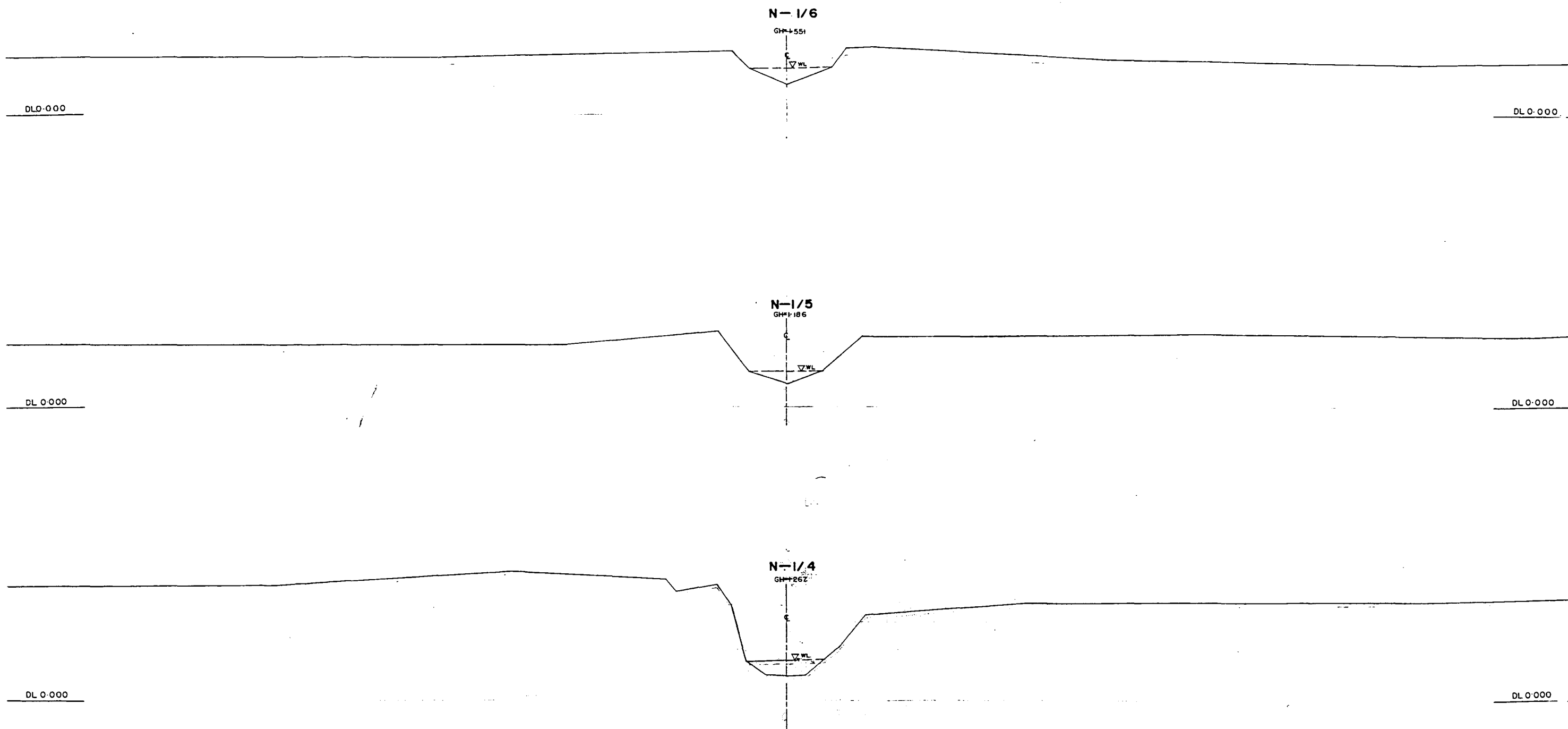
LEGEND
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 EXISTING RIGHT GROUND LINE -----
 EXISTING BOTTOM LINE -----
 * L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-1		SCALE	H=1:5000 V=1:100
DWG NO	KN L 3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-1		SCALE	H=1200 V=1:100
DWG. NO.	KN C1	DATE	March- 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

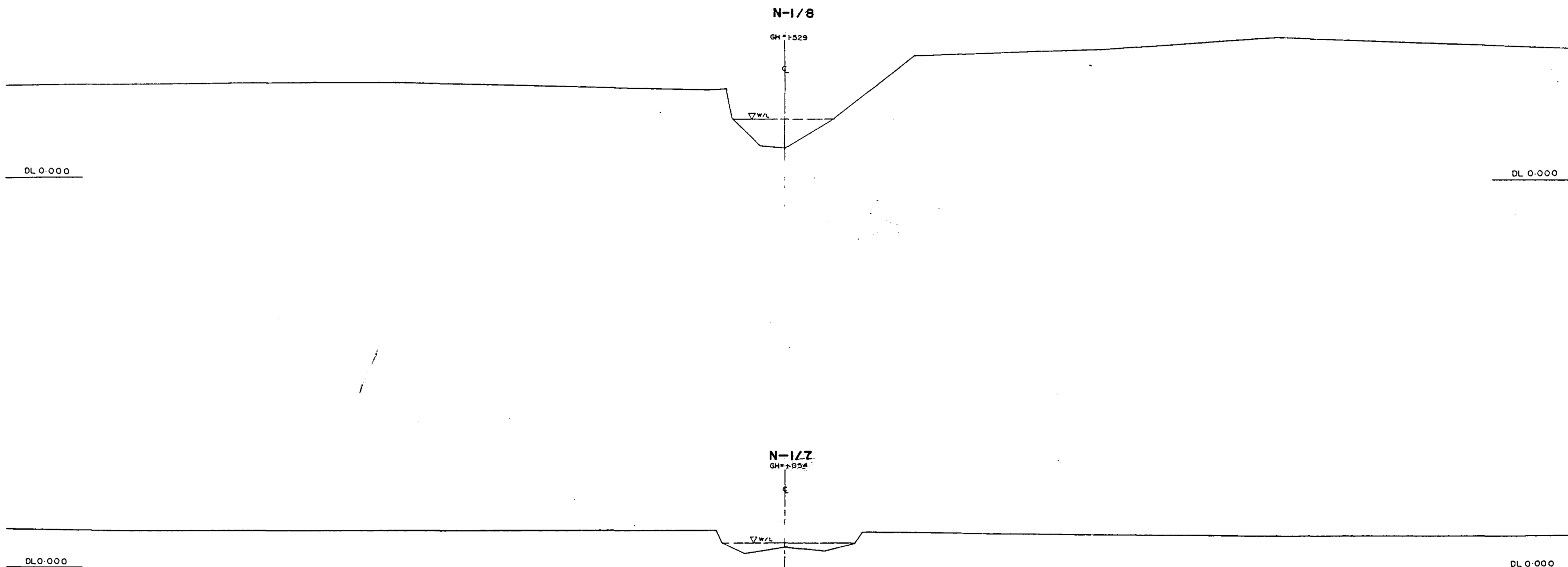
202



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-1		SCALE	H=1:200 V=1:100
DWG. NO.	KN C2	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

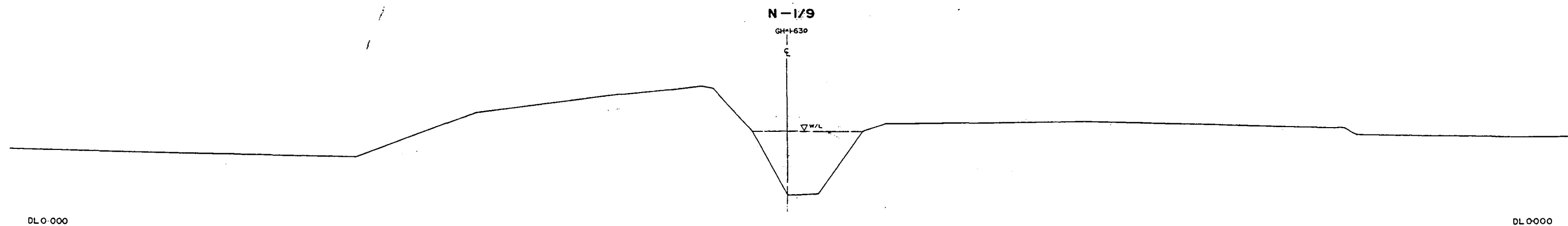
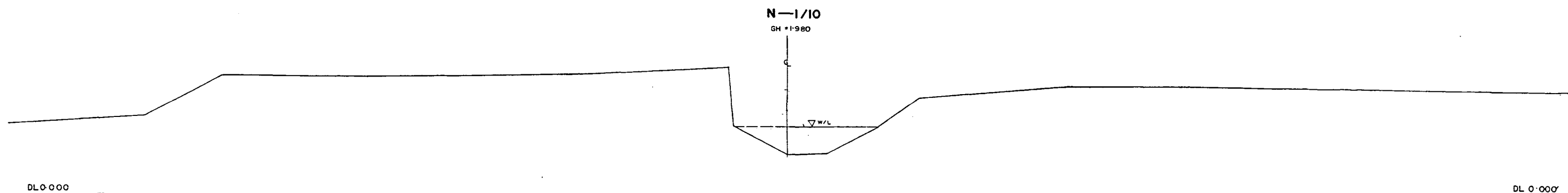
266



* L/R FACING TO UP STREAM

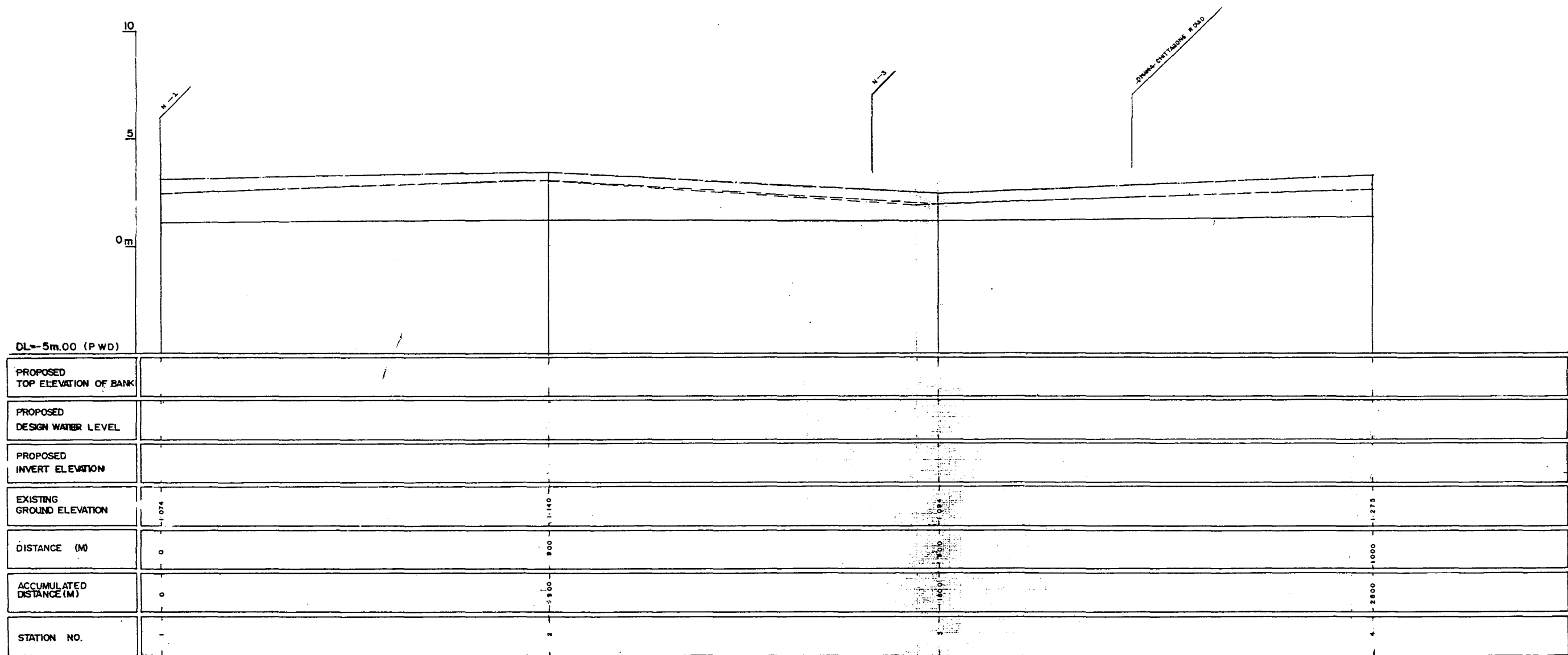
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BANGLADESH FLOOD ACTION PLAN NO.BA			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-1		SCALE	N=1:200 V=1:100
DWG. NO.	KN C 3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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※L/R FACING TO UP STREAM

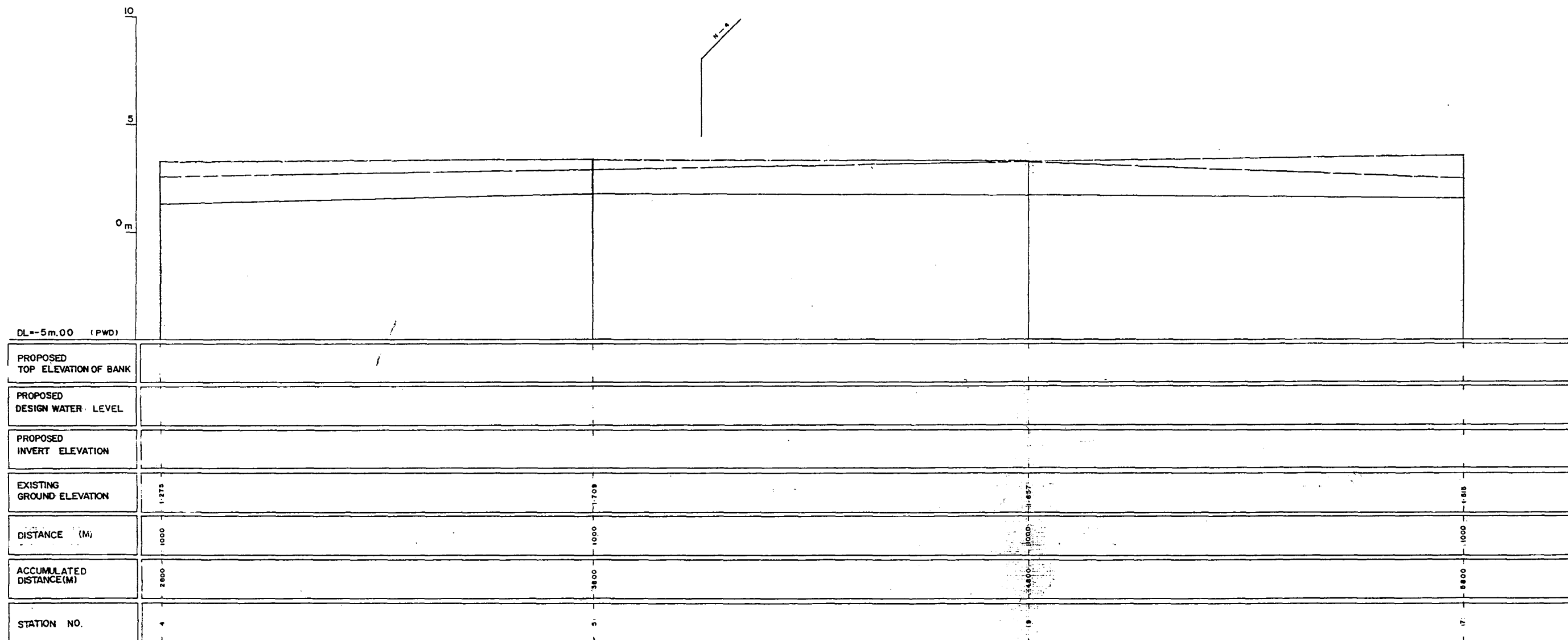
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-1		SCALE	H=1:200 V=1:100
DWG. NO.	KNC4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
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EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING STREAM

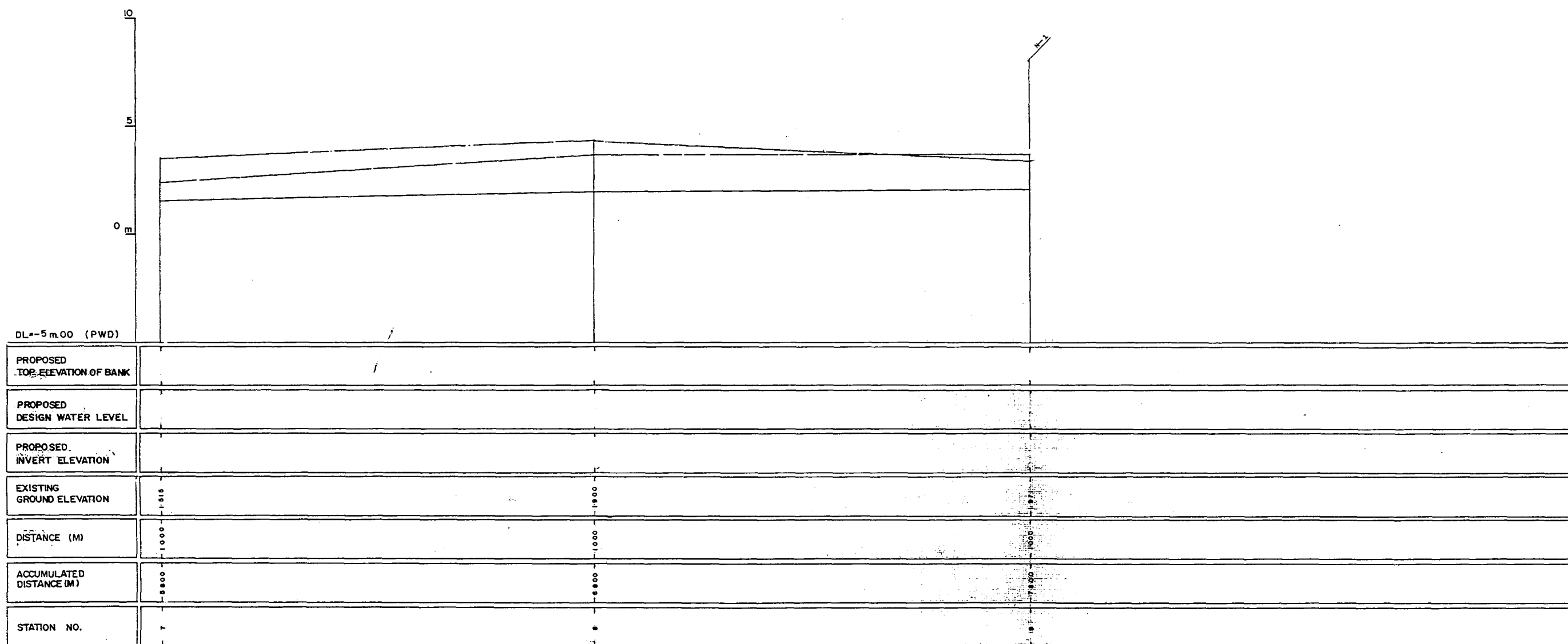
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-2		SCALE	H=1:5000 V=1:100
DWG. NO.	KN L 4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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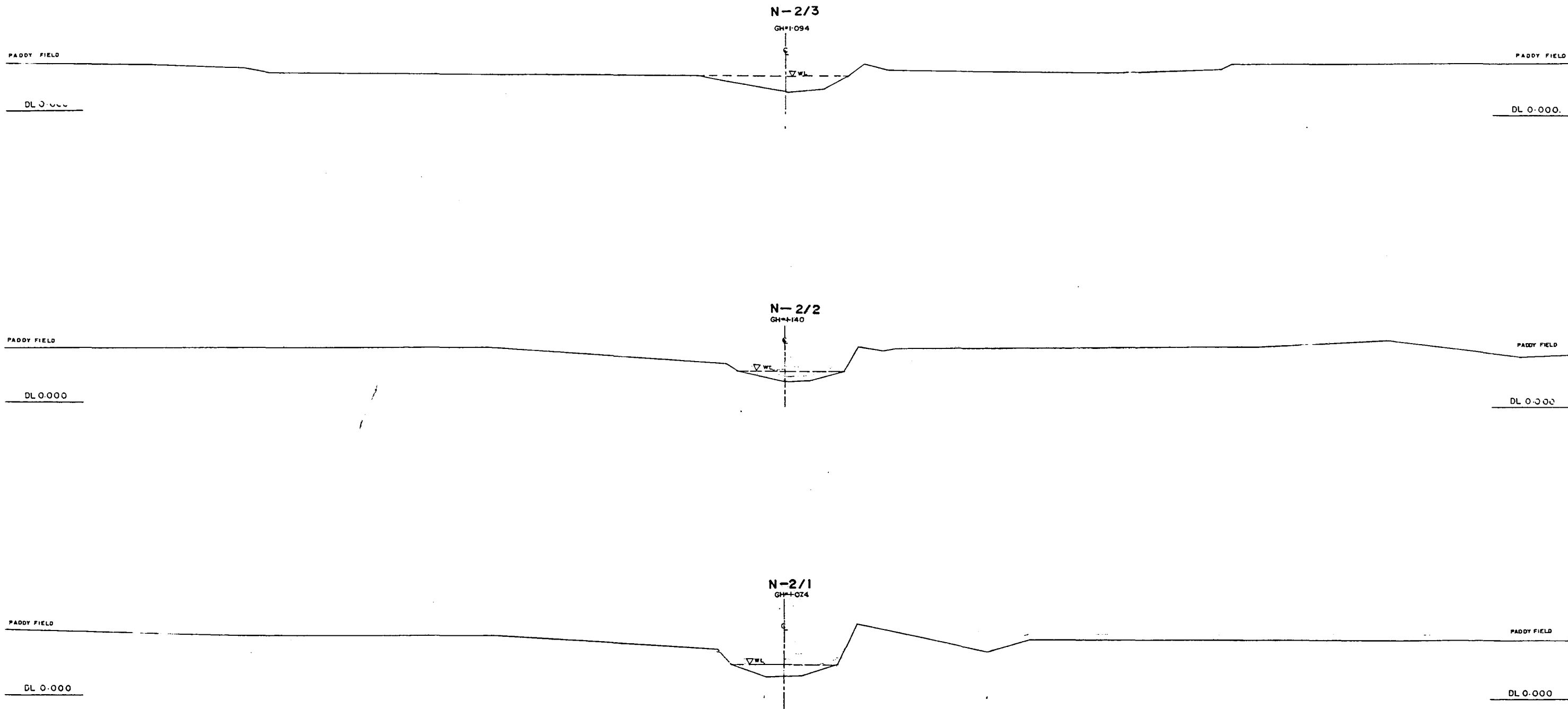


LEGEND.
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
#L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-2		SCALE	H=1:5000 V=1:100
DWG. NO.	KN L 5	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



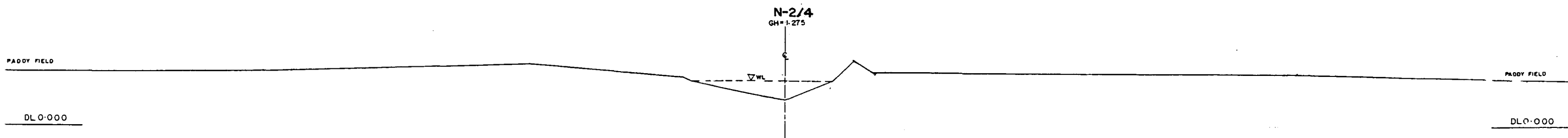
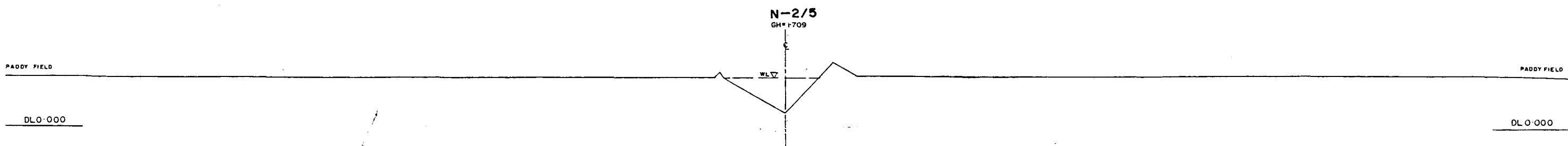
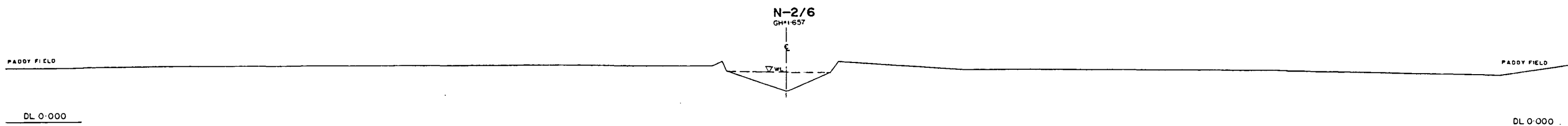
267



* L/R FACING TO UP STREAM

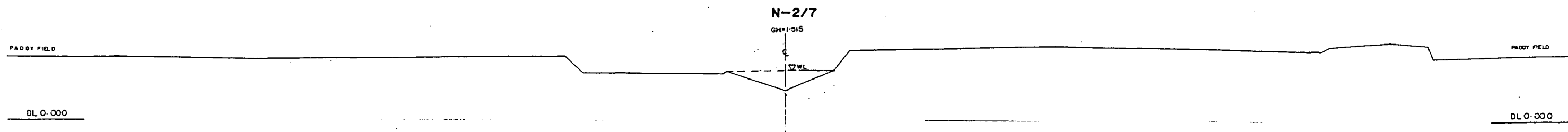
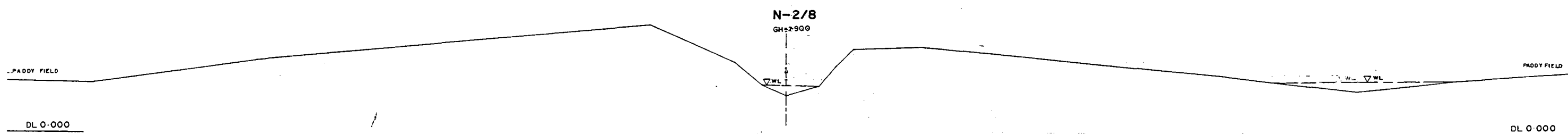
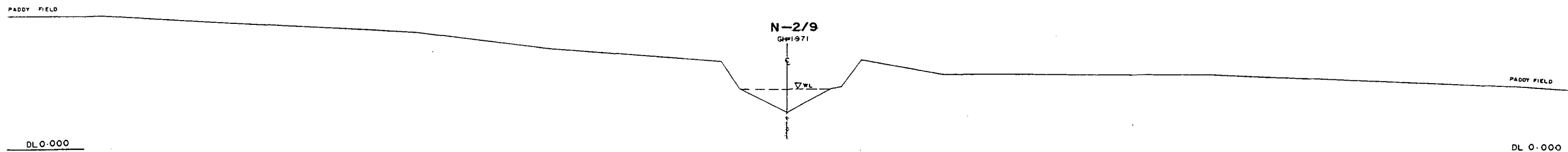
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
N-2		SCALE	H=1:250 W=1:100
DWG. NO.	KN C5	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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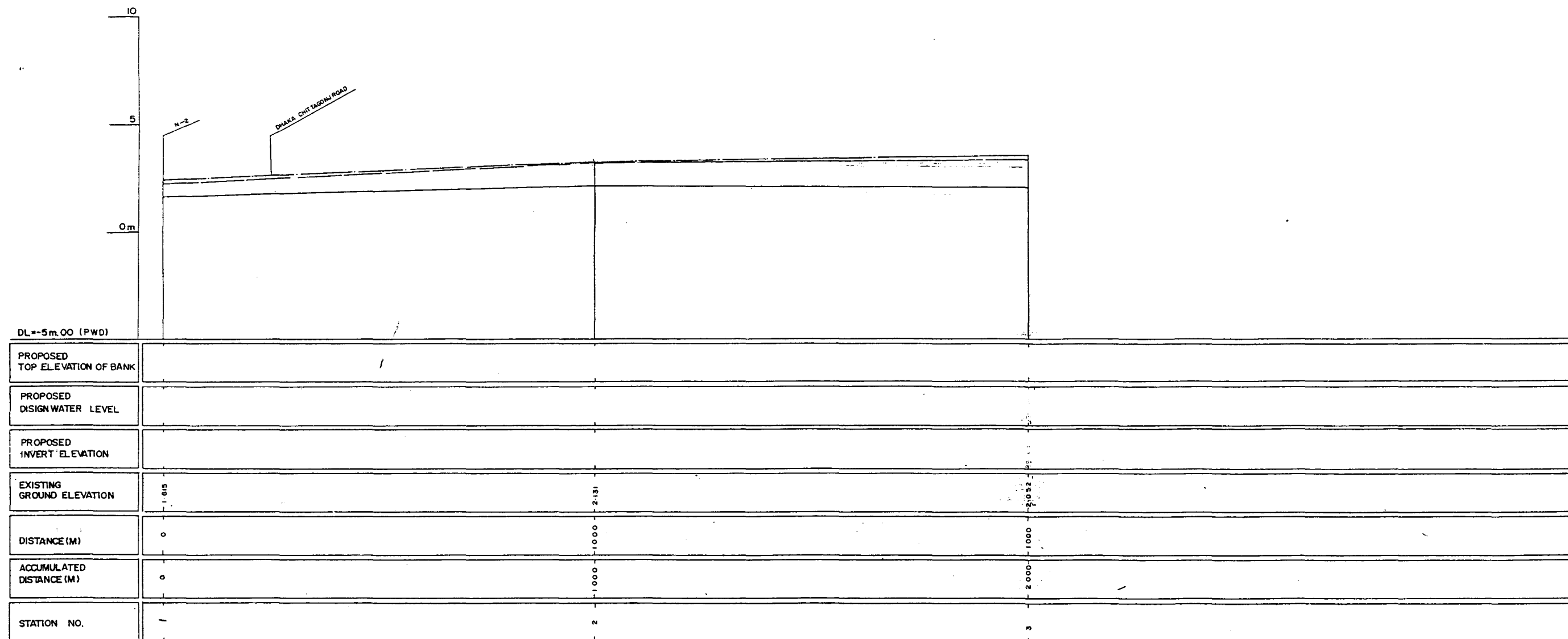
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-2		SCALE	H=1:200 V=1:100
DWG. NO.	KN C6	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

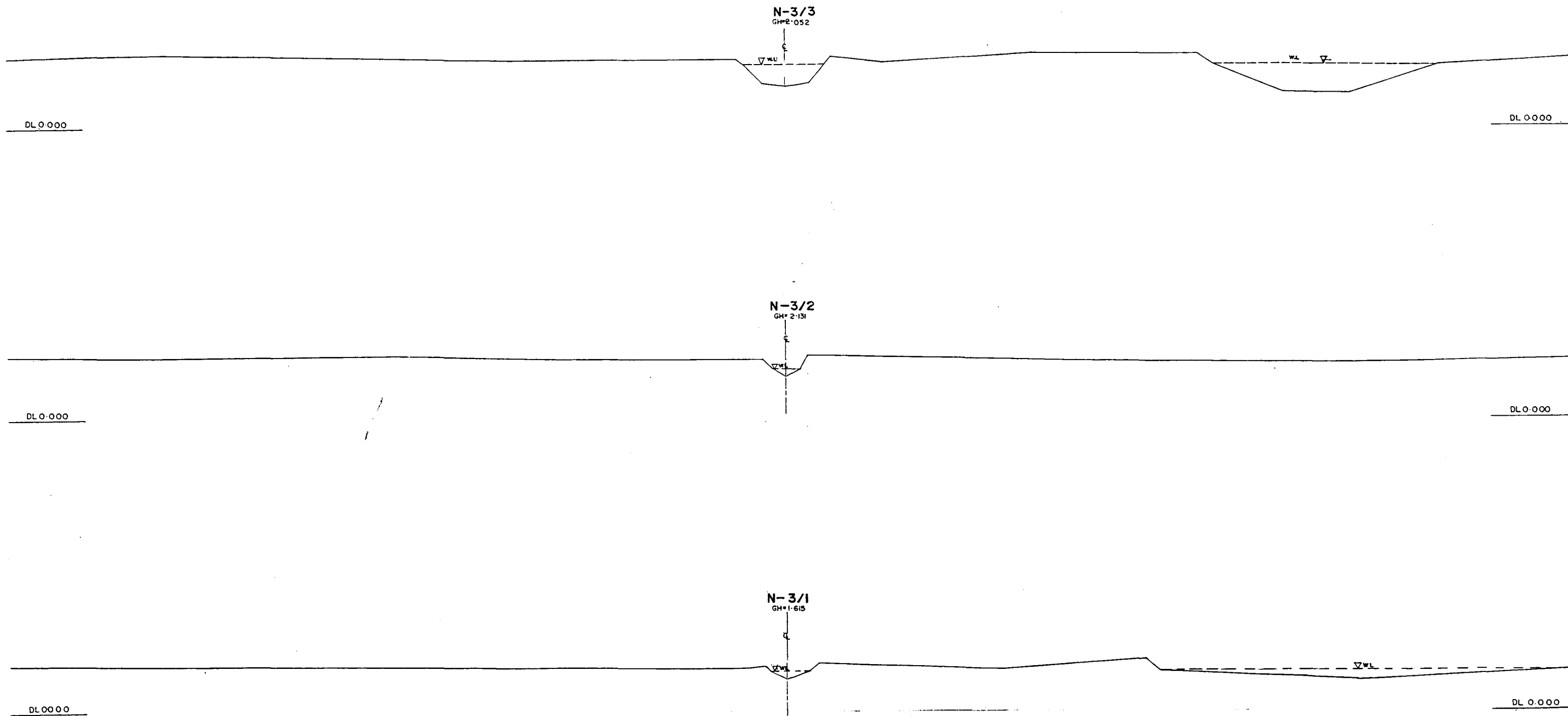
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-2		SCALE	H=1:200 V=1:100
DWG. NO.	KN C7	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
 EXISTING LEFT GROUND LINE
 EXISTING RIGHT GROUND LINE
 EXISTING BOTTOM LINE
 * L/R FACING TO UP STREAM

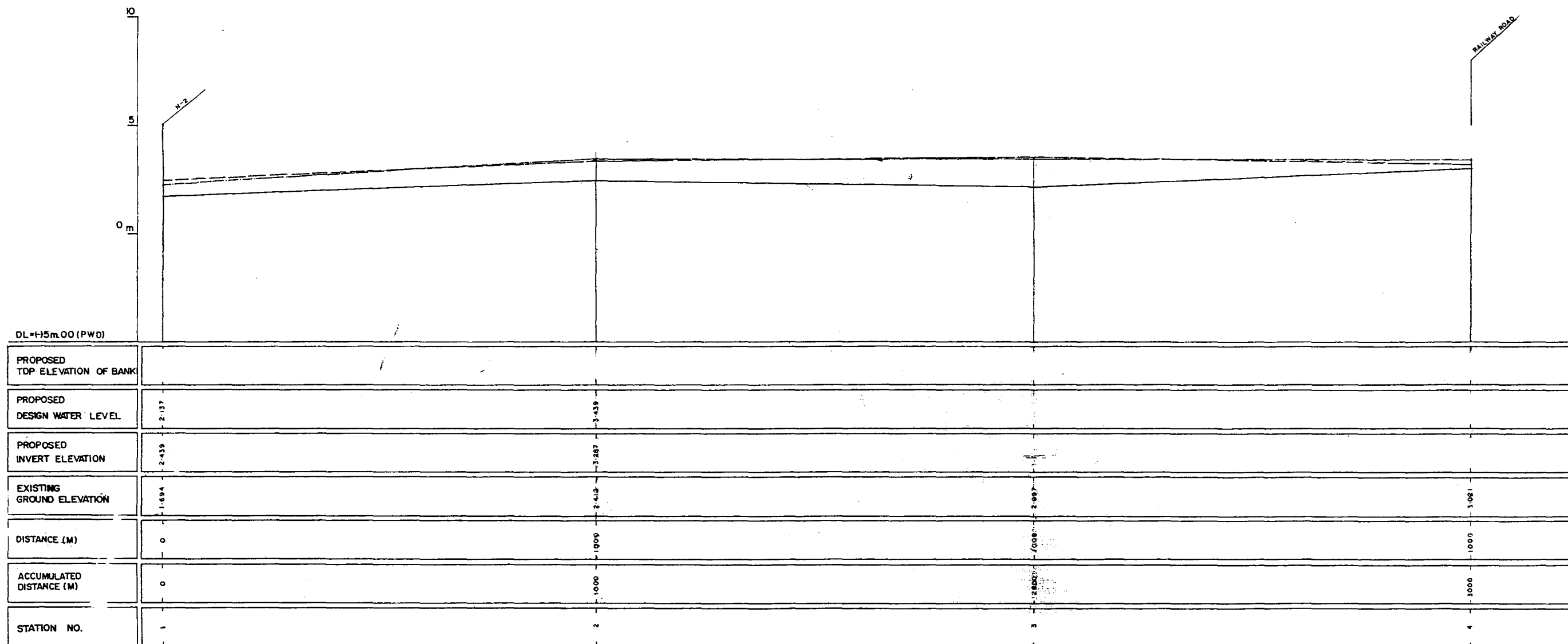
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-3		SCALE	H=1:5000 V=1:100
DWG. NO.	KN L7	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-3		SCALE	H=1:200 V=1:100
DWG. NO.	KN CB	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
 EXISTING LEFT GROUND LINE -----
 EXISTING RIGHT GROUND LINE -----
 EXISTING BOTTOM LINE -----
 * L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-4		SCALE	H=1:5000 V=1:100
DWG. NO.	KN L8	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

N-4/2
GH+2.412

▽WL

DL 0+000

DL 0+000

N-4/1
GH+1.694

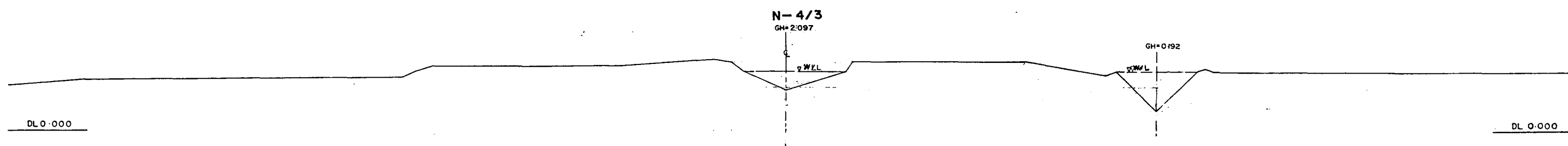
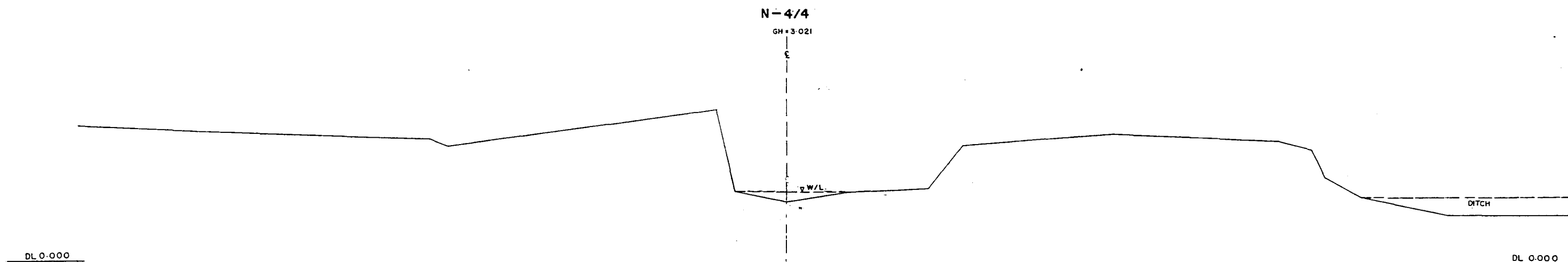
▽WL

DL 0+000

DL 0+000

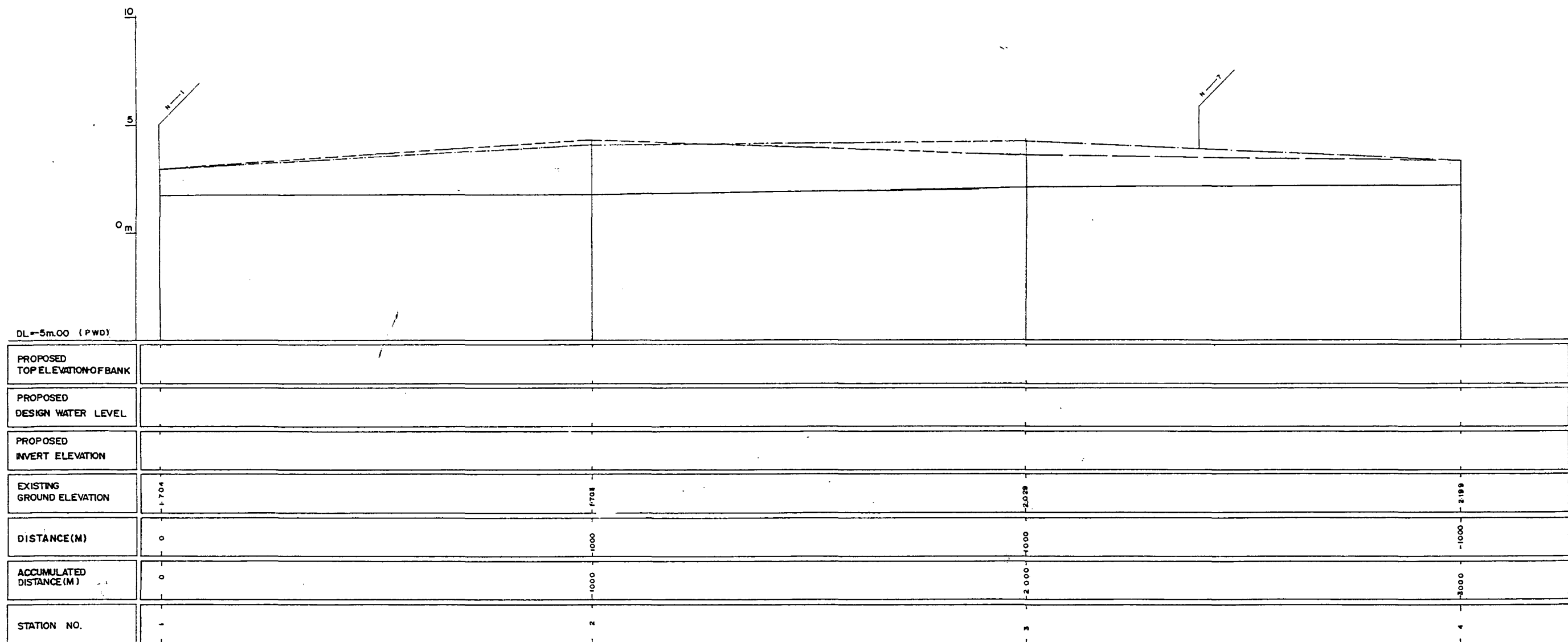
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-4		SCALE	H = 1:200 V = 1:100
DWG NO	KN C9	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-4		SCALE	H=1:200 V=1:100
DWG NO	KN C 10	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* C/R FACING TO UP-STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-5		SCALE	H=1:5000 V=1:100
DWG. NO.	KN L9	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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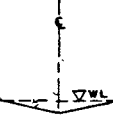
N-5/2
GH=1.703



DL 0.000

DL 0.000

N-5/1
GH=1.704

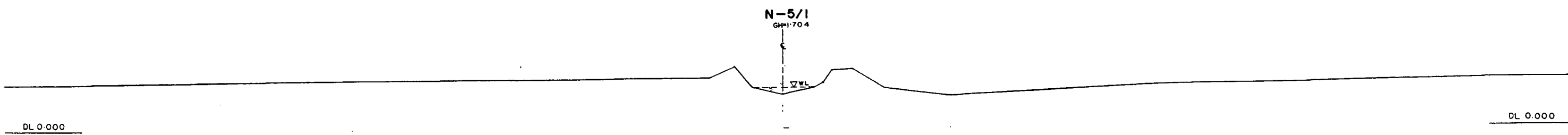
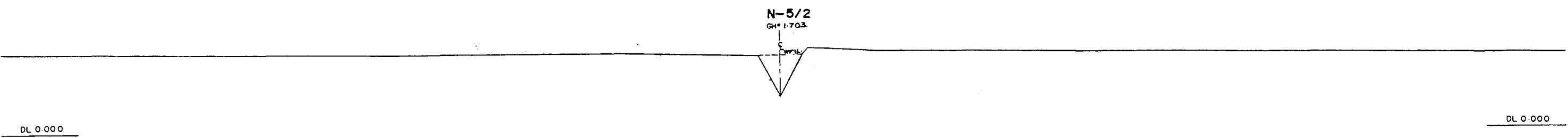


DL 0.000

DL 0.000

* L/R FACING TO UP STREAM

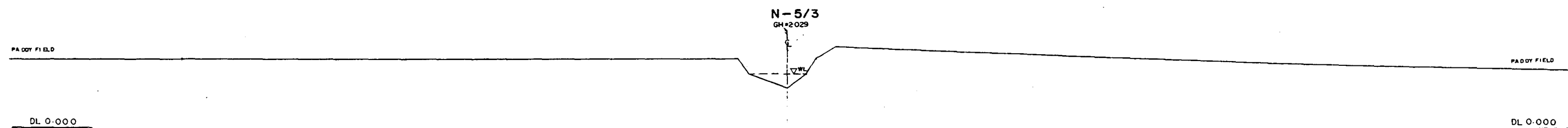
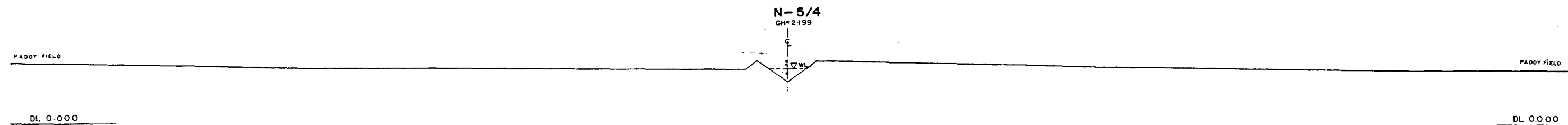
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-5		SCALE	H=1:200 V=1:100
DWG NO	KN C II	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

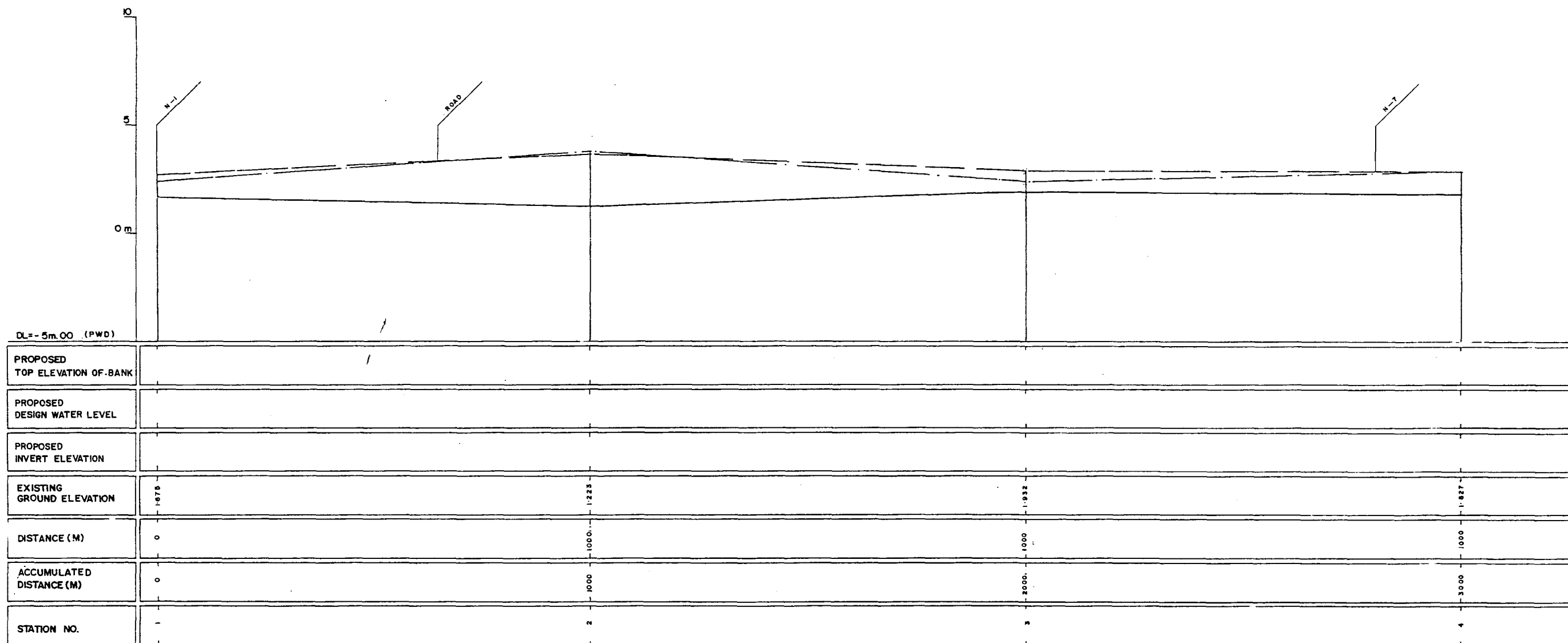
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
N-5		SCALE	H=1:200 V=1:100
DWG NO	KN C II	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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* L/R FACING TO UP STREAM

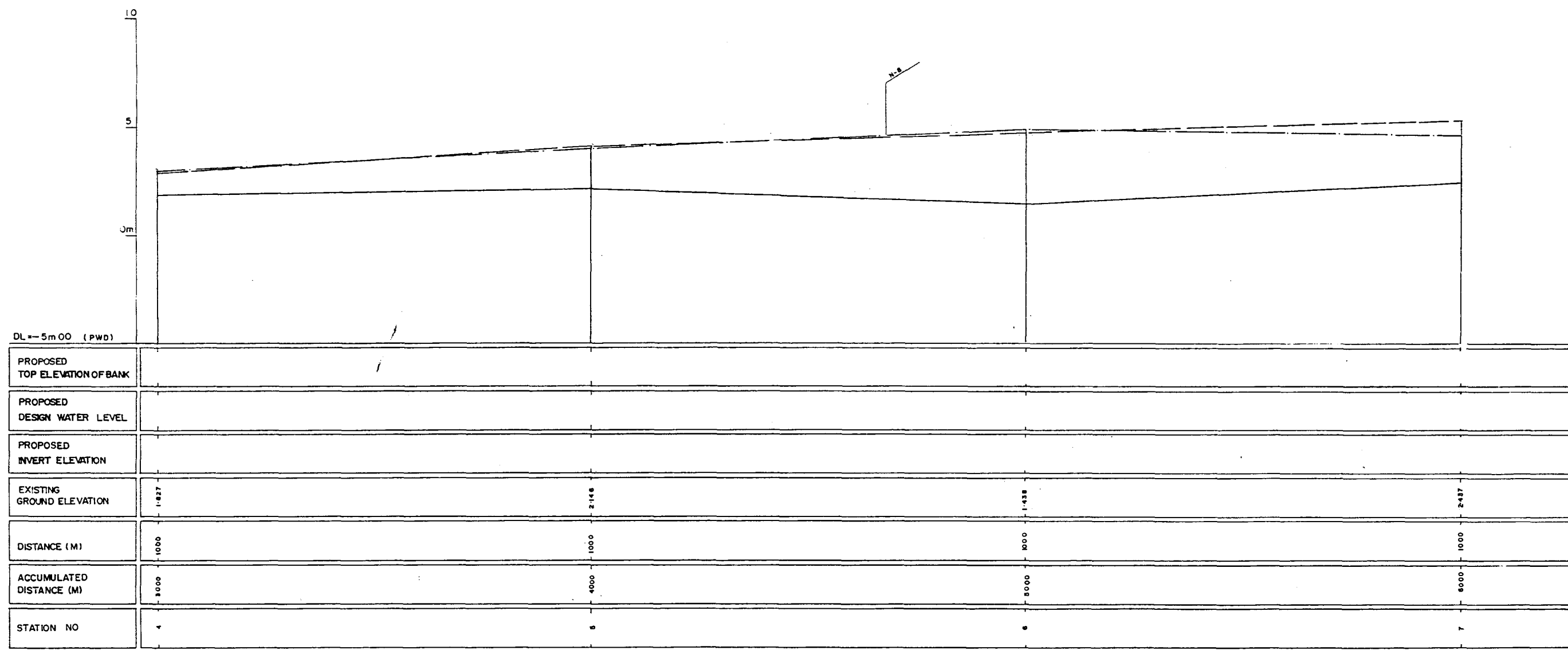
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
N-5		SCALE	H=1:200 V=1:100
DWG NO	KN C12	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE: ---
EXISTING RIGHT GROUND LINE: ---
EXISTING BOTTOM LINE: ---
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A
DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL
N-6
SCALE: H=1:5000, V=1:100
DWG NO: KN L 10, DATE: March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY

2002



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-6

DWG NO

KN L II

DATE

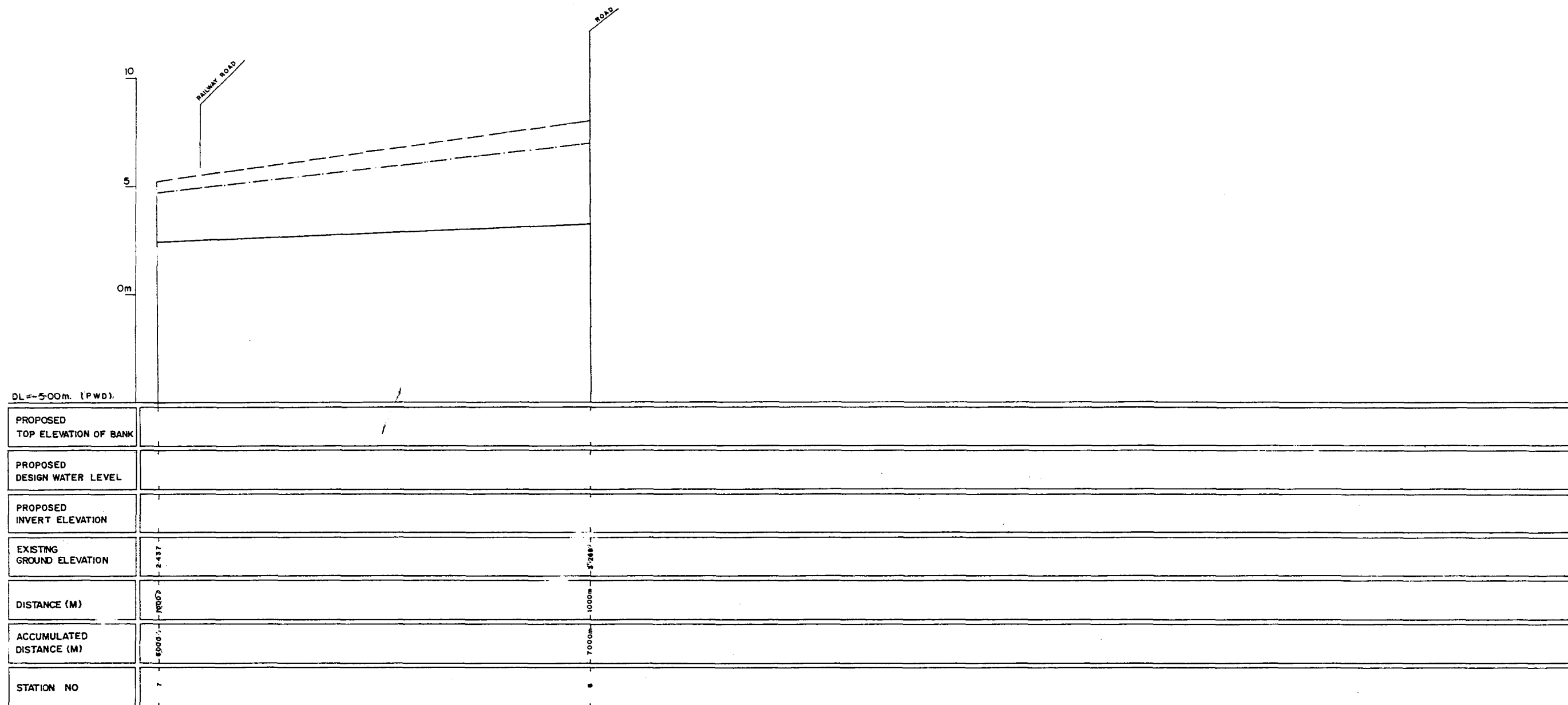
March 1991

SCALE

H=1:5000
V=1:100

JAPAN INTERNATIONAL COOPERATION AGENCY

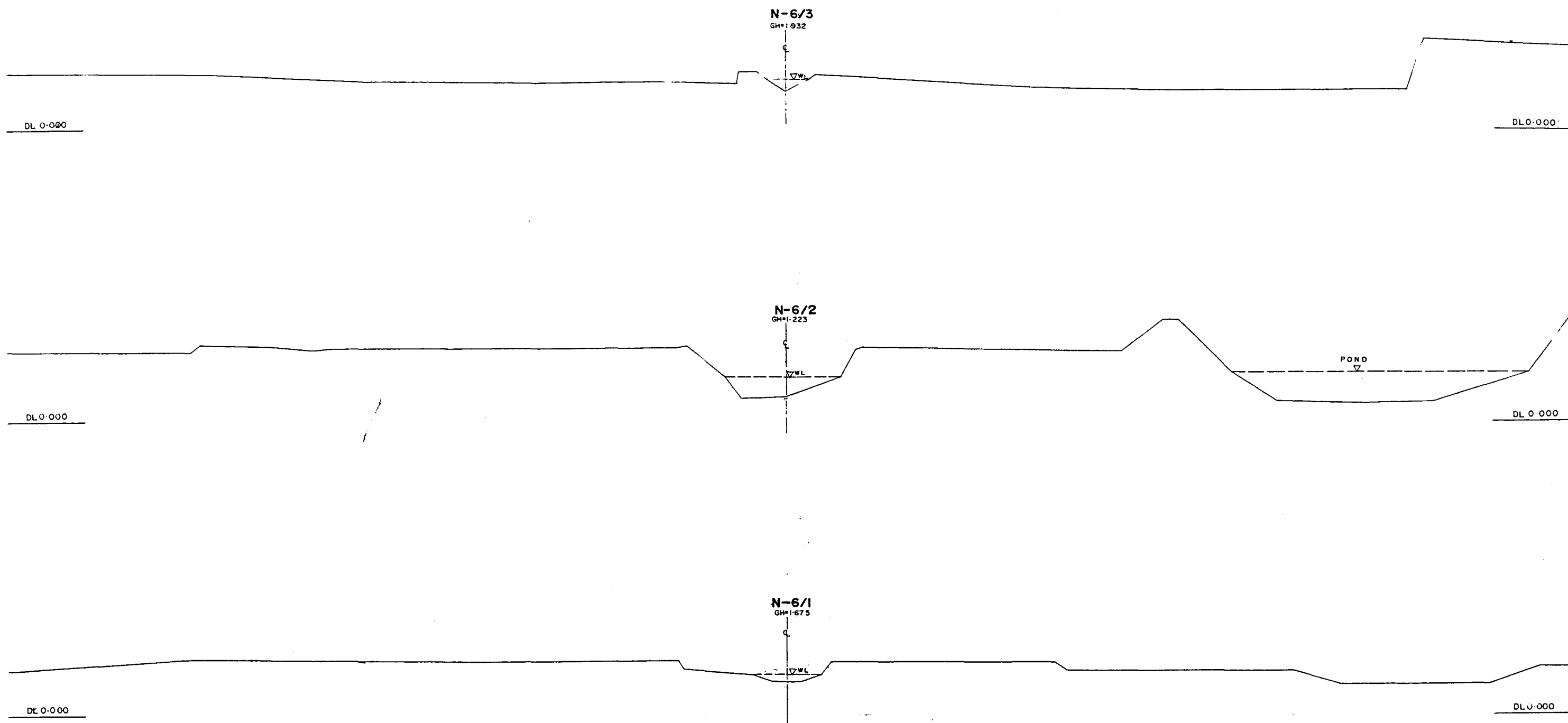
282



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* -L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-6		SCALE	1:5000 Vs 1:100
DWG NO	KN L12	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

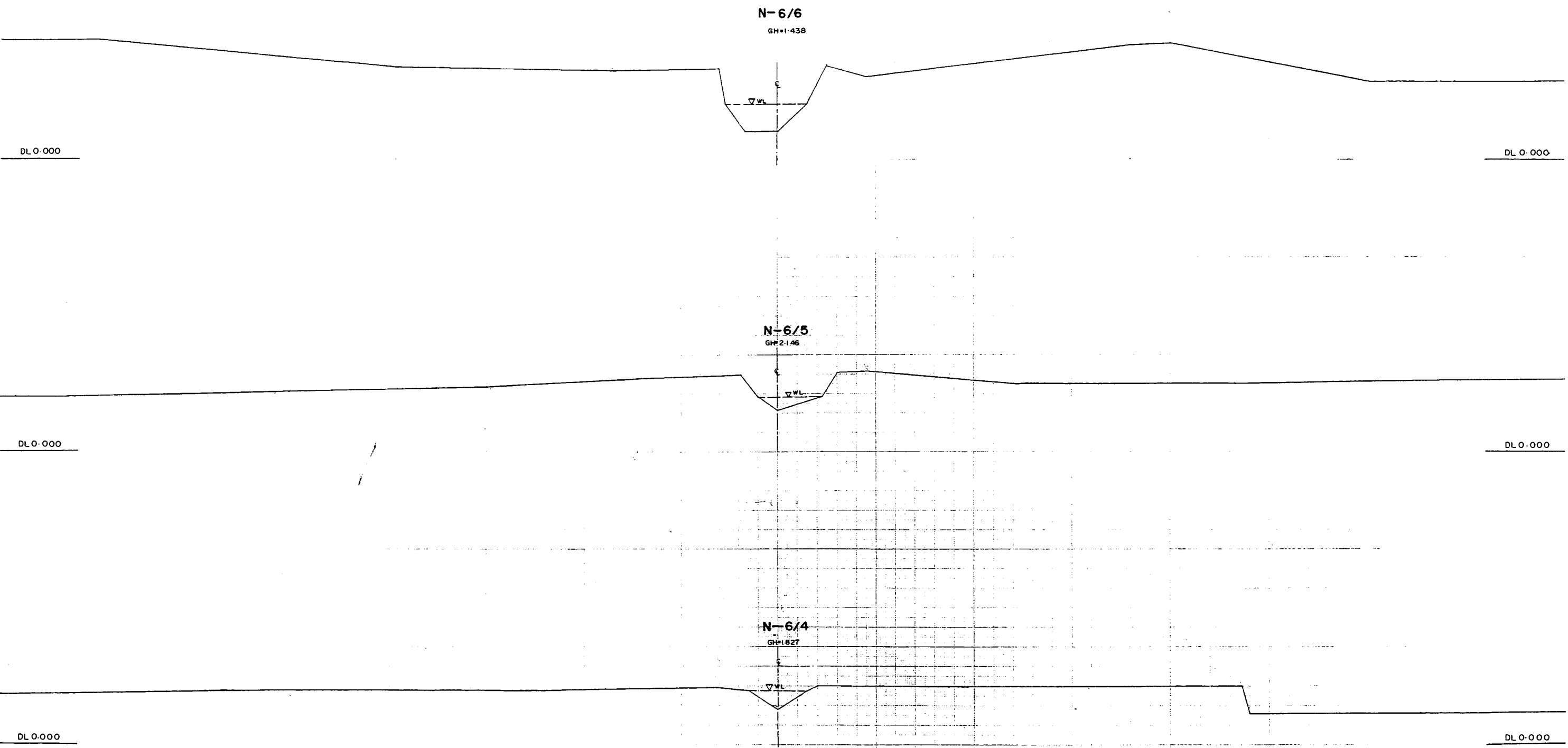
286



* L/R FACING TO UP STREAM

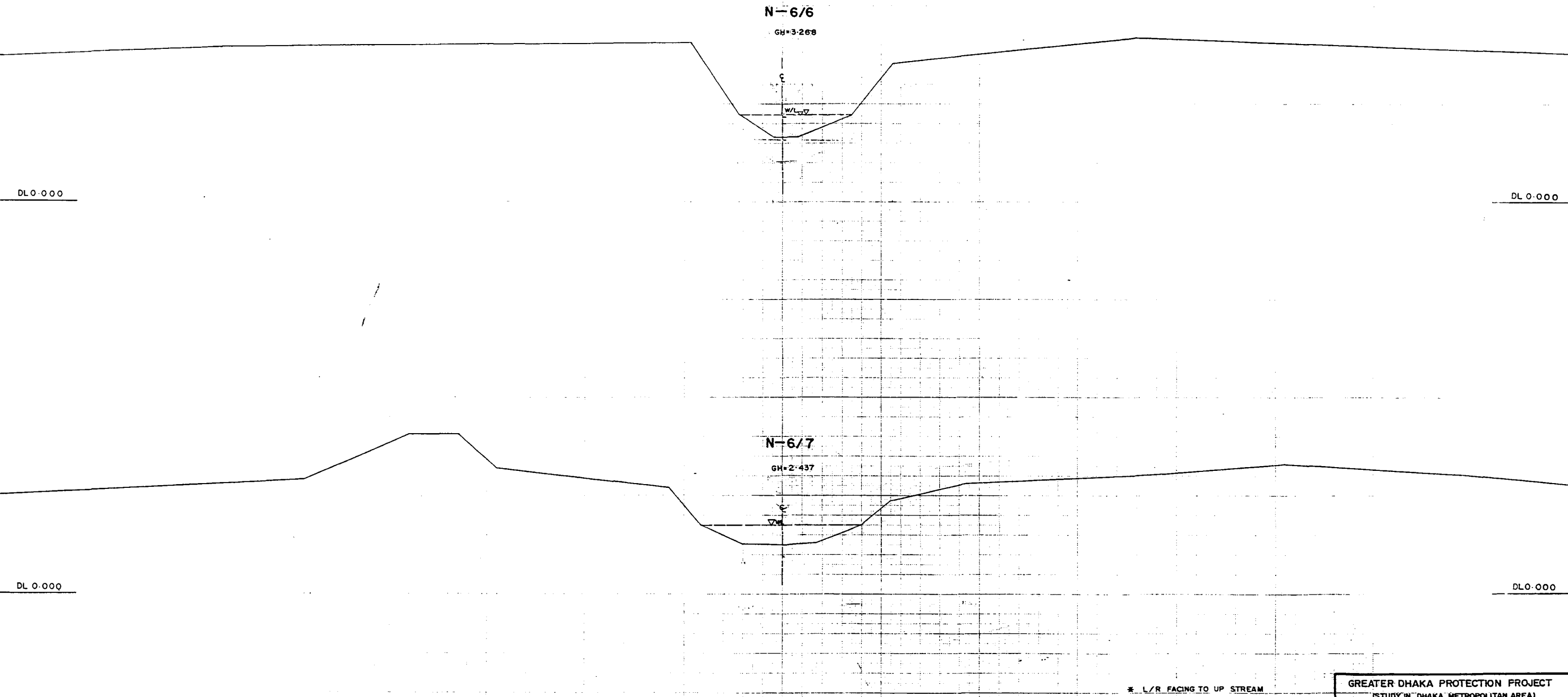
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-6		SCALE	H=1:200 V=1:100
DWG NO	KN C13	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

208



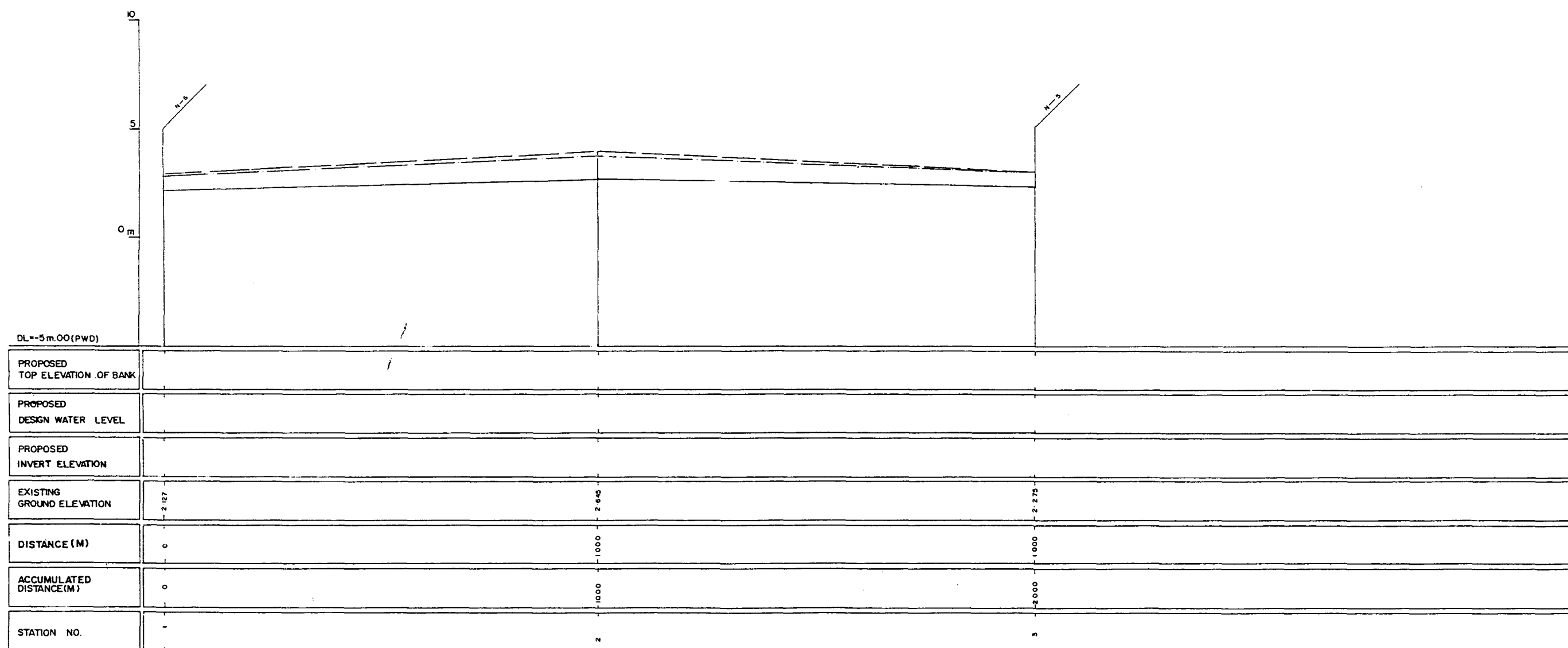
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-6		SCALE	H=1:200 V=1:100
DWG NO	KN C14	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



GREATER DHAKA PROTECTION PROJECT			
[STUDY IN "DHAKA" METROPOLITAN AREA]			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-6		SCALE	H=1:200 V=1:100
DWG NO	KN C15	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

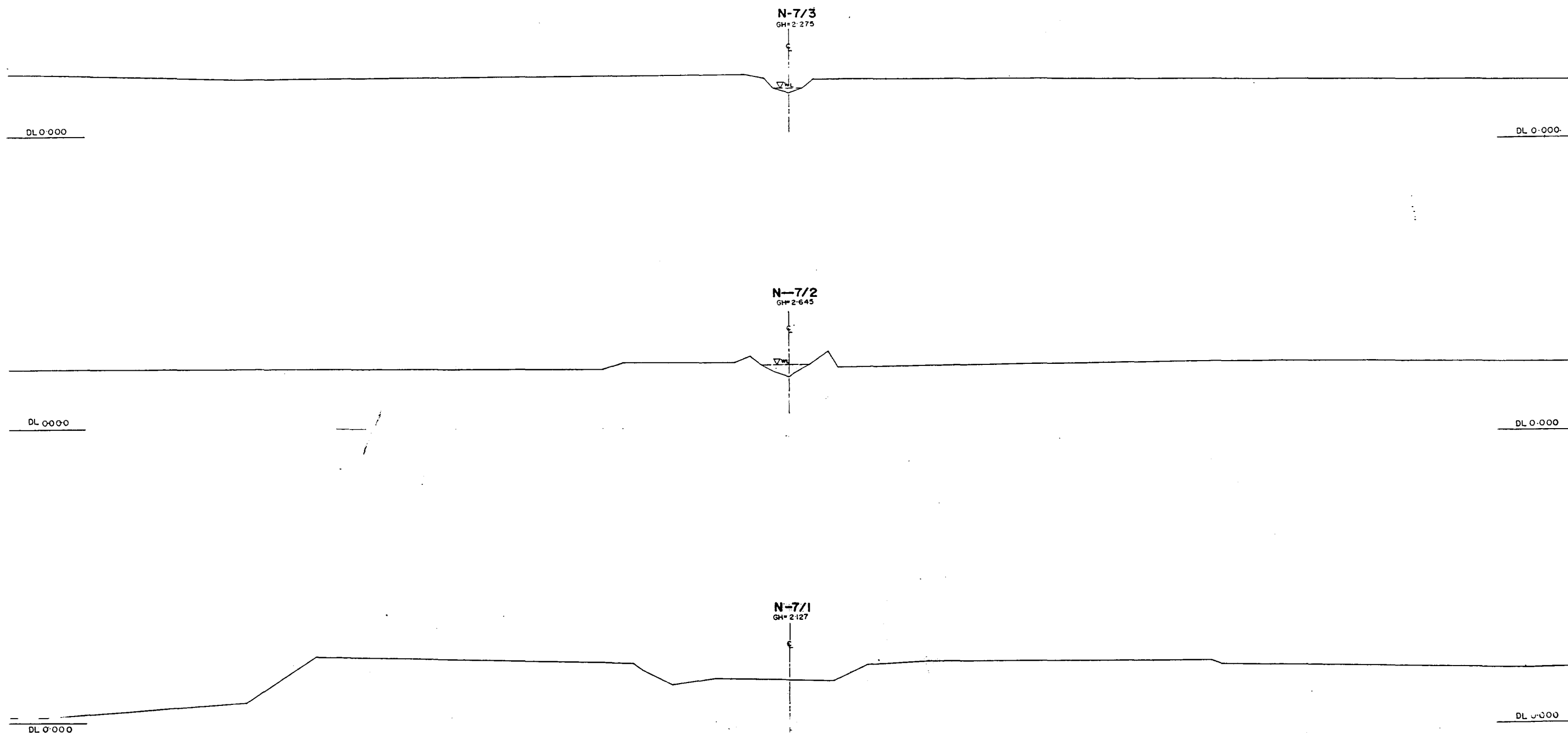
222



LEGEND
EXISTING LEFTGROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-7		SCALE	H=1:5000 V=1:100
DWG. NO.	KN L13	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

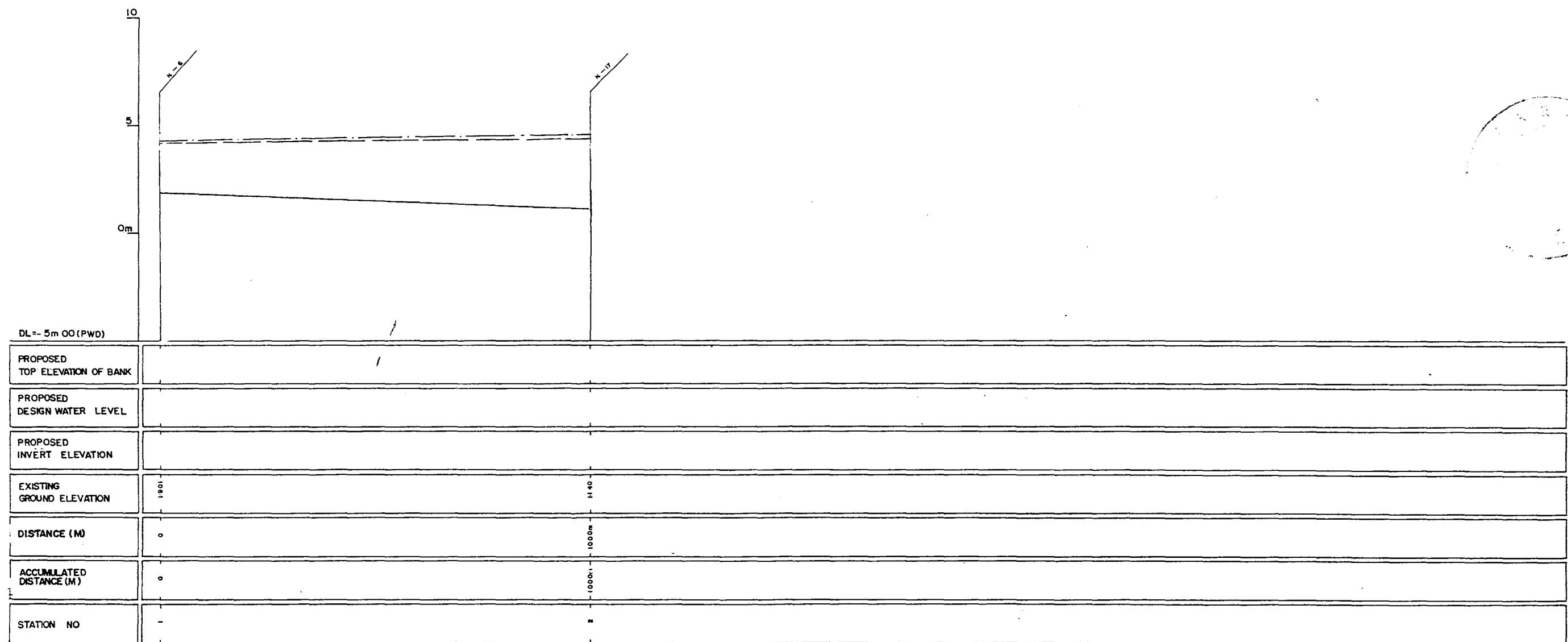
283



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOODACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-7		SCALE	H=1:200 V=1:100
DWG NO	KN C16	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

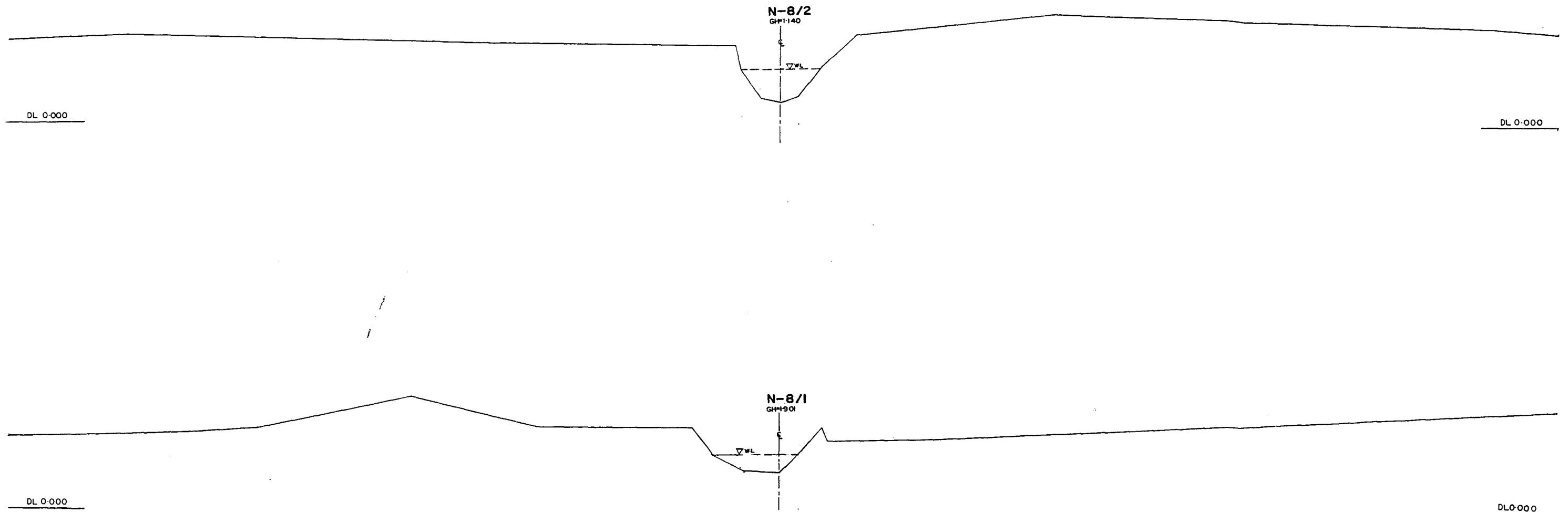
259



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-8		SCALE	H=1:5000 V=1:100
DWG NO	KN L 14	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

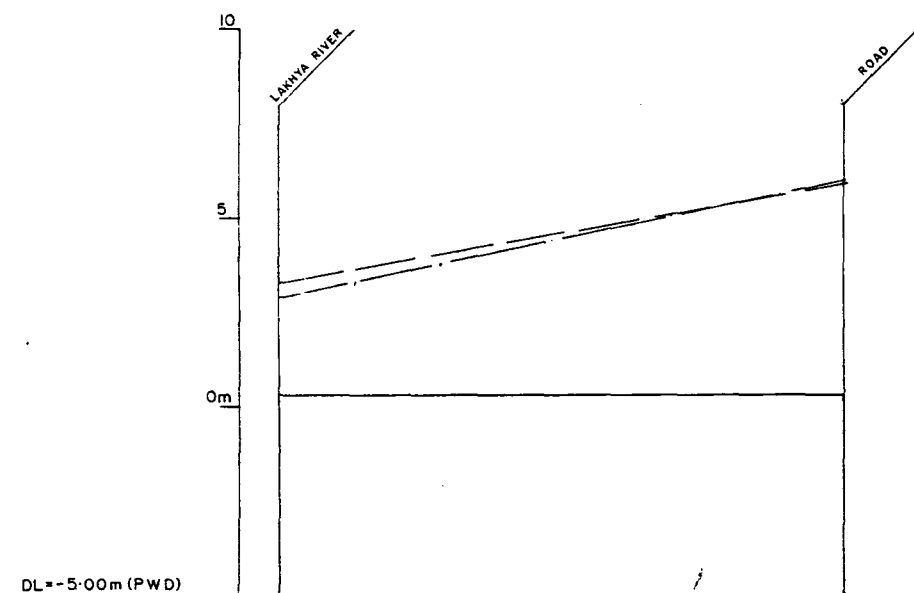
152



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-8		SCALE	H=1:200 V=1:100
DWG NO	KN C17	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

22

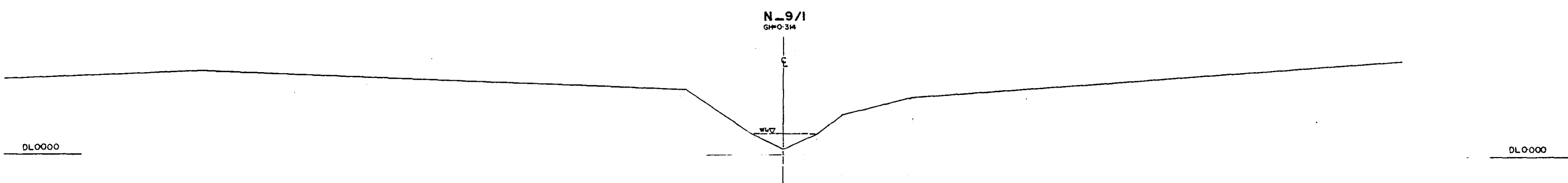
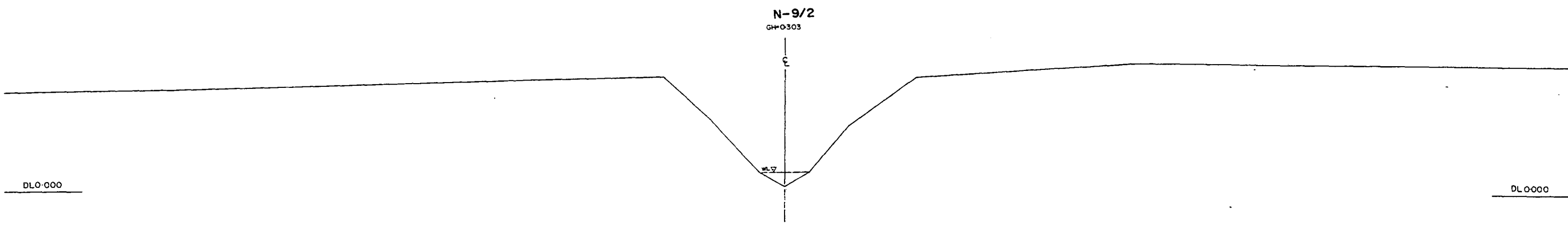


PROPOSED TOP ELEVATION OF BANK		
PROPOSED DESIGN WATER LEVEL		
PROPOSED INVERT ELEVATION		
EXISTING GROUND ELEVATION	0.14	0.303
DISTANCE (M)	0	750
ACCUMULATED DISTANCE (M)	0	750
STATION NO	-	2

LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-9		SCALE	H=5000 V=100
DWG NO	KN L15	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-9		SCALE	H=1:200 V=1:100
DWG NO	KN C18	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

22



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-10		SCALE	1:5000 V.H.E. 100
DWG NO	KN LIG	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

832

N-10/2

GP+1722

Σ

DL 0+000

DL 0+000

N-10/1

GP+2514

Σ

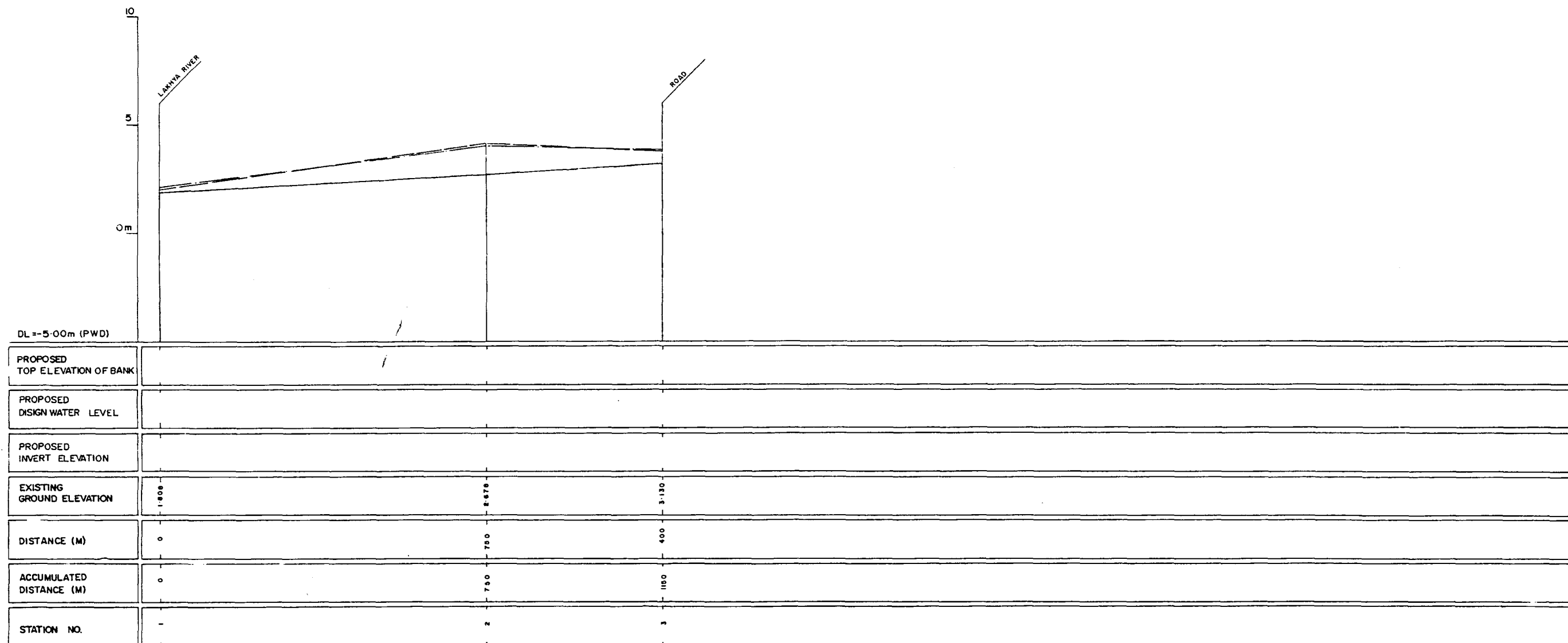
DL 0+000

DL 0+000

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
N-10		SCALE	H=1:200 V=1:100
DWG NO	KN C19	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

24



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-11		SCALE	H=1:5000 V=1:100
DWG NO	KN L 17	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

2/2

N-II/3
GH+3130

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DLO-000

DLO-000

N-II/2
GH+2675

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DLO-000

DLO-000

N-II/1
GH+1808

ε

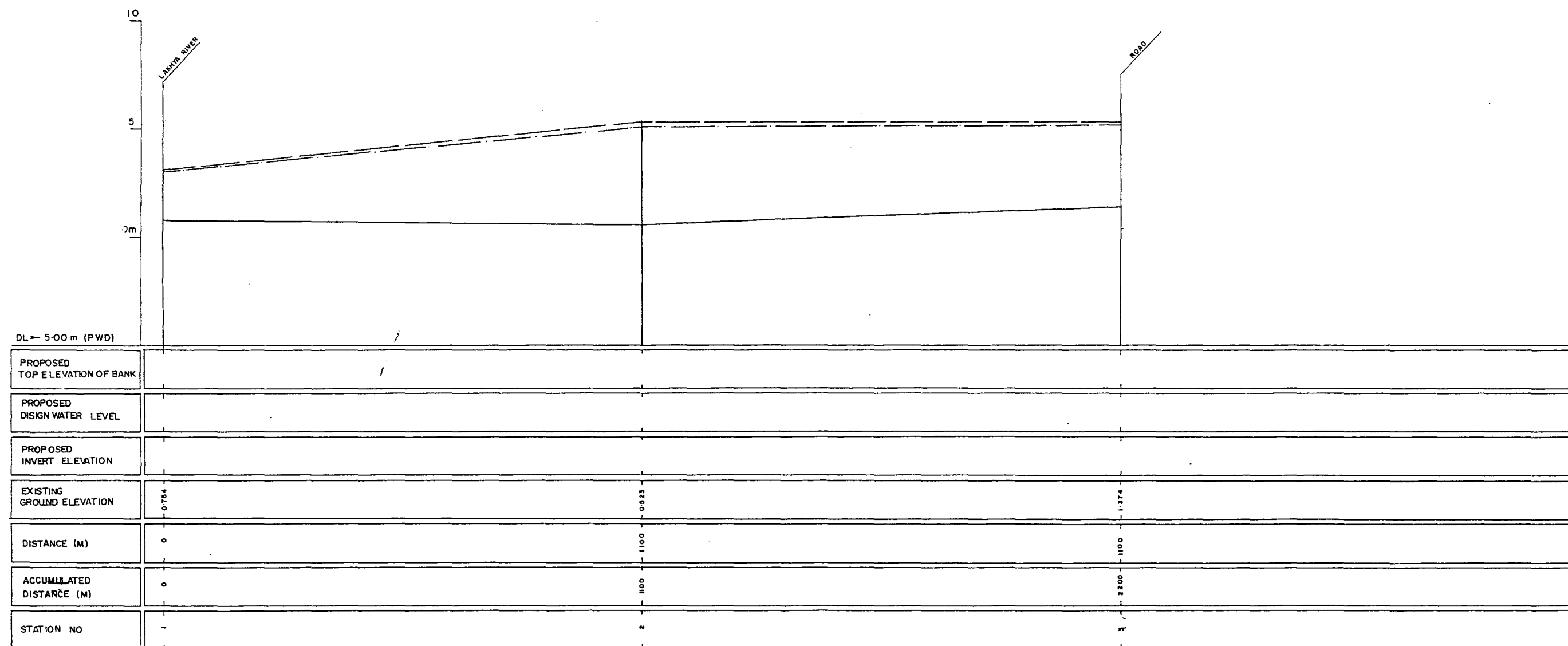
DLO-000

DLO-000

※L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-II		SCALE	H=1:200 V=1:100
DWG NO	KN C 20	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

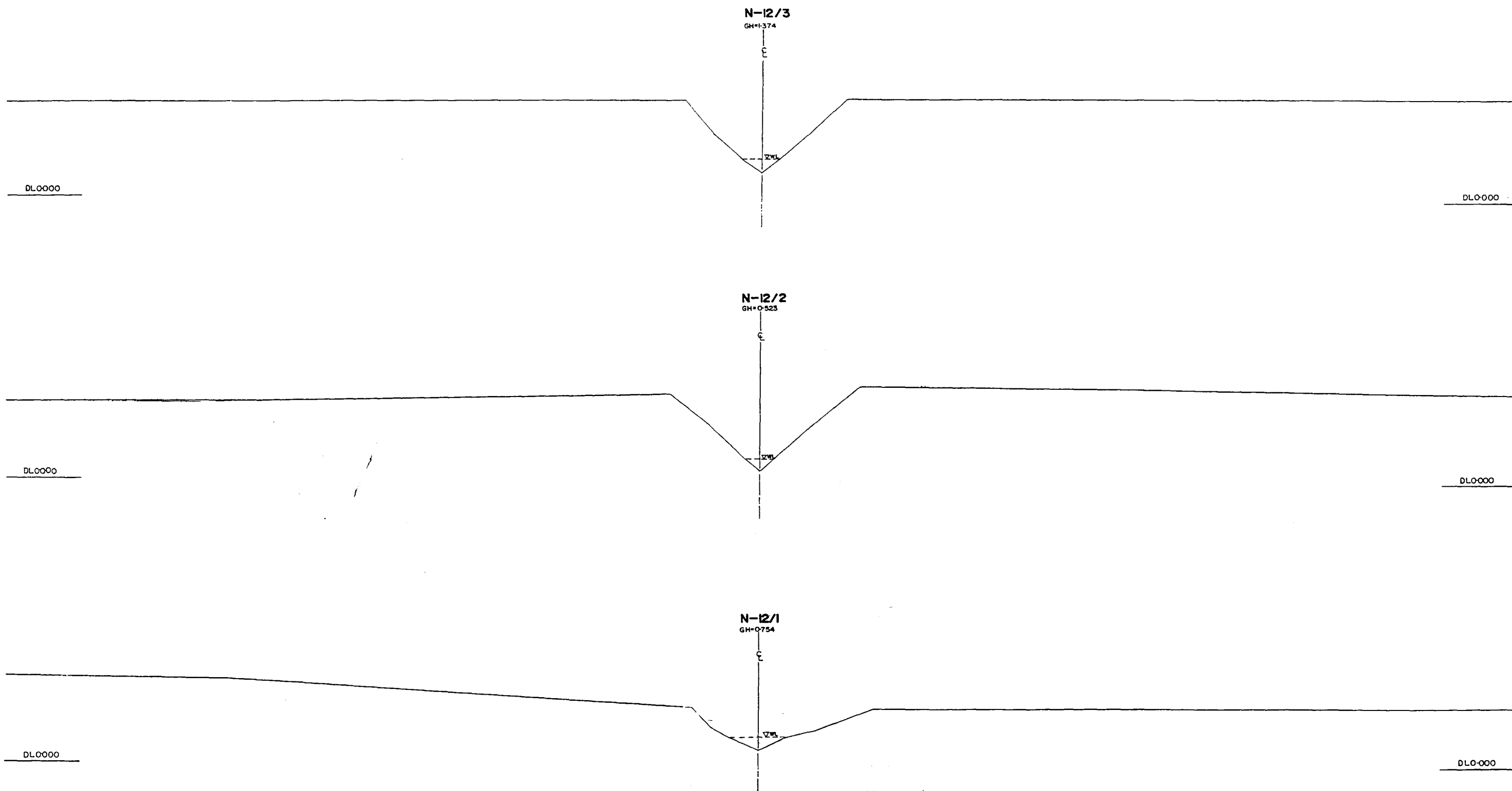
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LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL N-12			
DWG NO	KN L 18	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

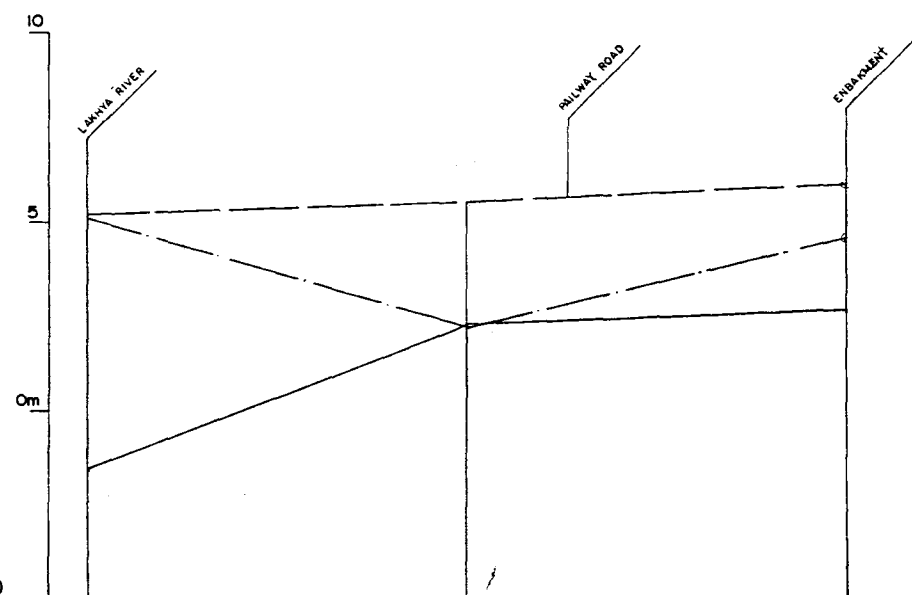
223



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-12		SCALE	H=1:200 V=1:100
DWG. NO.	KN C21	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

229



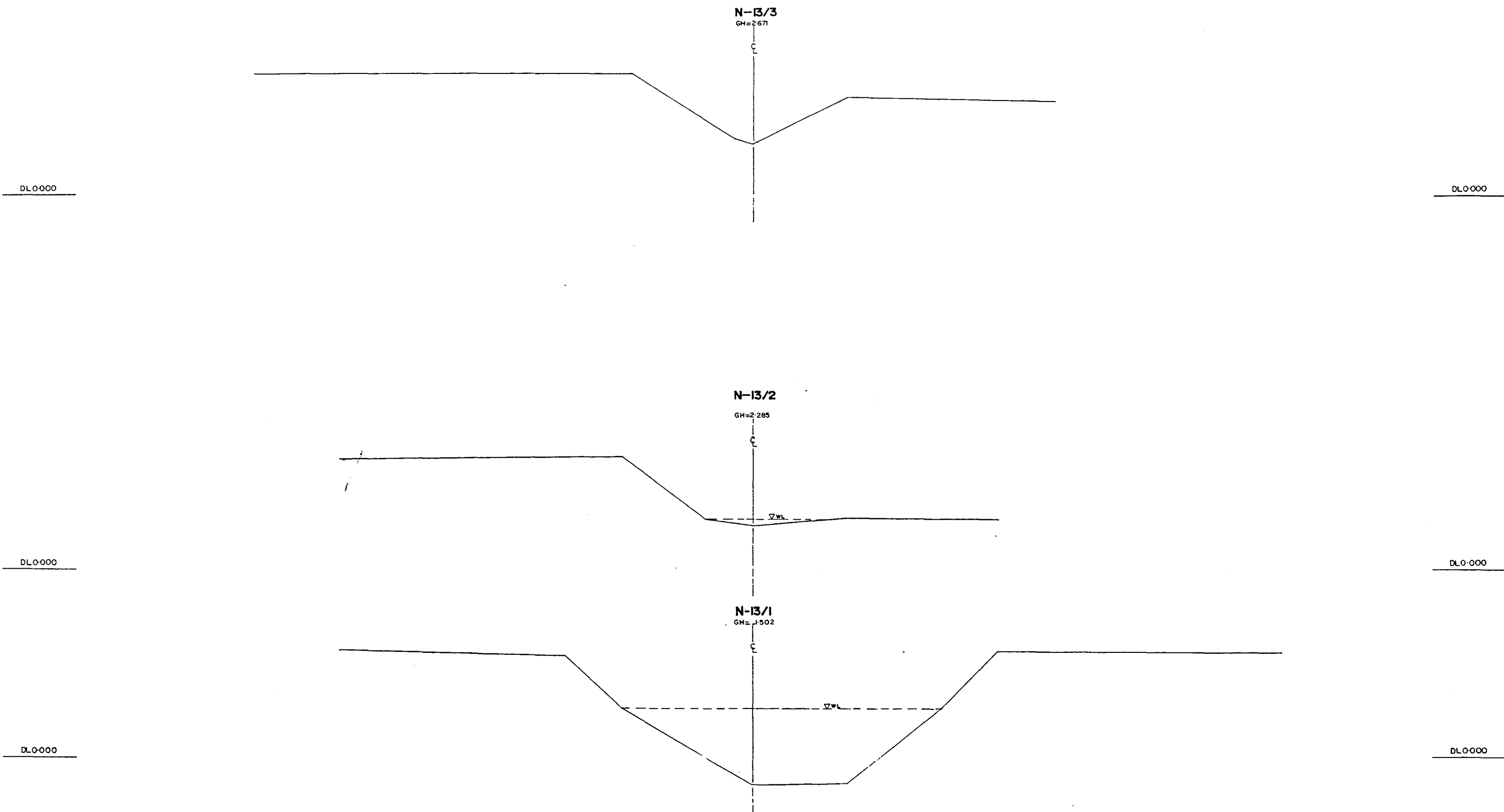
DL=-5.00m (PWD)

PROPOSED TOP ELEVATION OF BANK			
PROPOSED DESIGN WATER LEVEL			
PROPOSED INVERT ELEVATION			
EXISTING GROUND ELEVATION	1.902	2.285	2.471
DISTANCE (M)	0	500m	1000m
ACCUMULATED DISTANCE (M)	0	500	1000
STATION NO	1	2	3

LEGEND
EXISTING LEFTGROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-13		SCALE	H=1:5000 V=1:100
DWG NO	KN L19	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

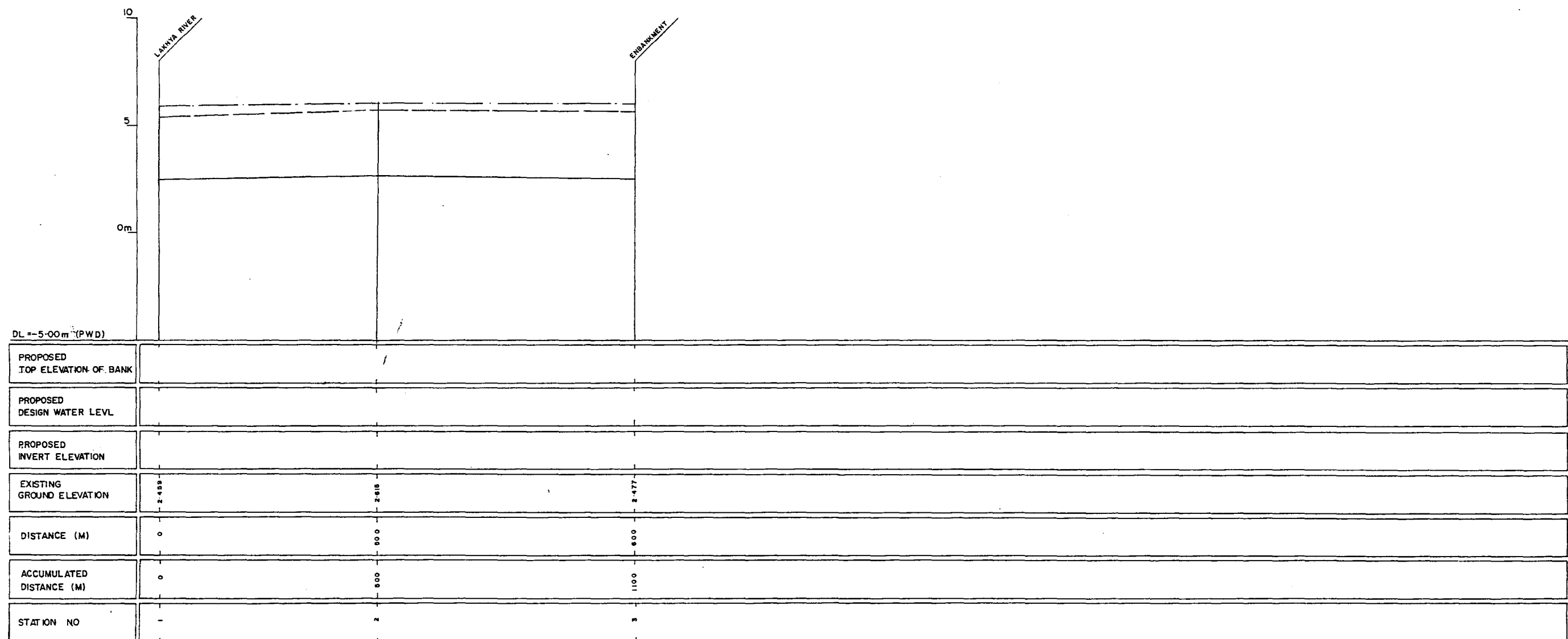
231



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-13		SCALE	H=1:200 V=1:100
DWG NO	KN C 22	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

732



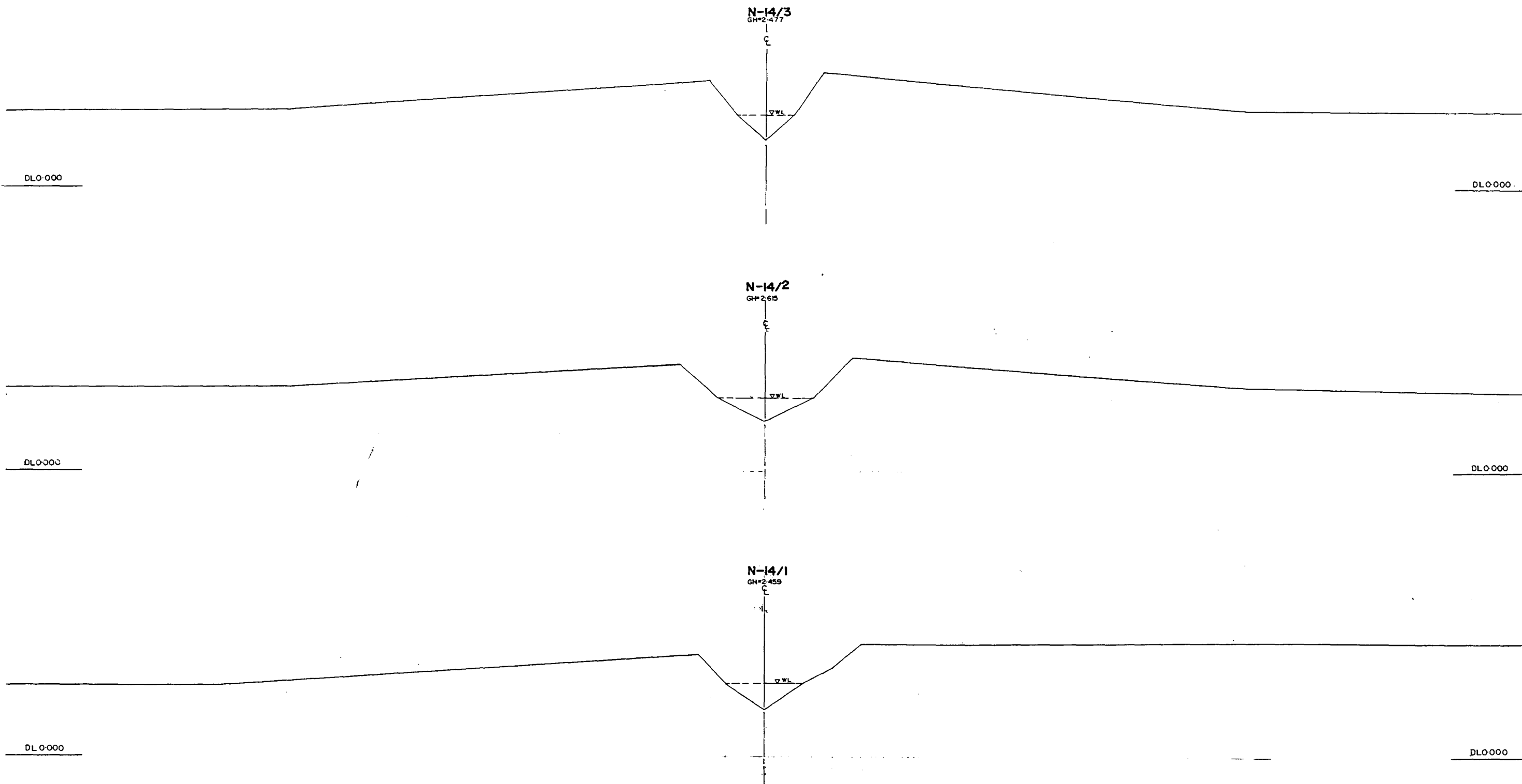
DL = -5.00m (PWD)

PROPOSED TOP ELEVATION OF BANK			
PROPOSED DESIGN WATER LEVEL			
PROPOSED INVERT ELEVATION			
EXISTING GROUND ELEVATION	2.459	2.618	2.477
DISTANCE (M)	0	800	800
ACCUMULATED DISTANCE (M)	0	800	1100
STATION NO	-	2	3

LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL N-14			
DWG NO	KN L20	SCALE	NH:5000 VH:100
DATE	March 1991		
JAPAN INTERNATIONAL COOPERATION AGENCY			

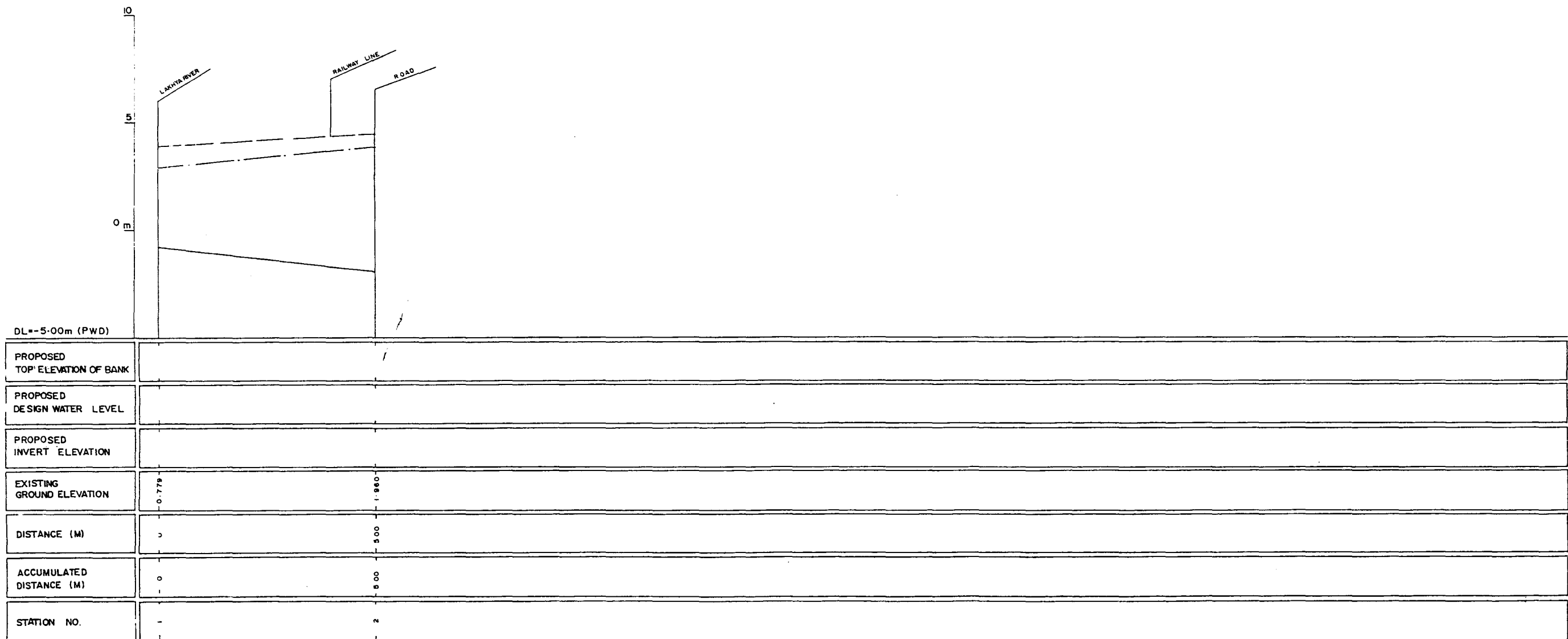
290



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
N-14		SCALE	H=1:200 V=1:100
DWG NO	KN C 23	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

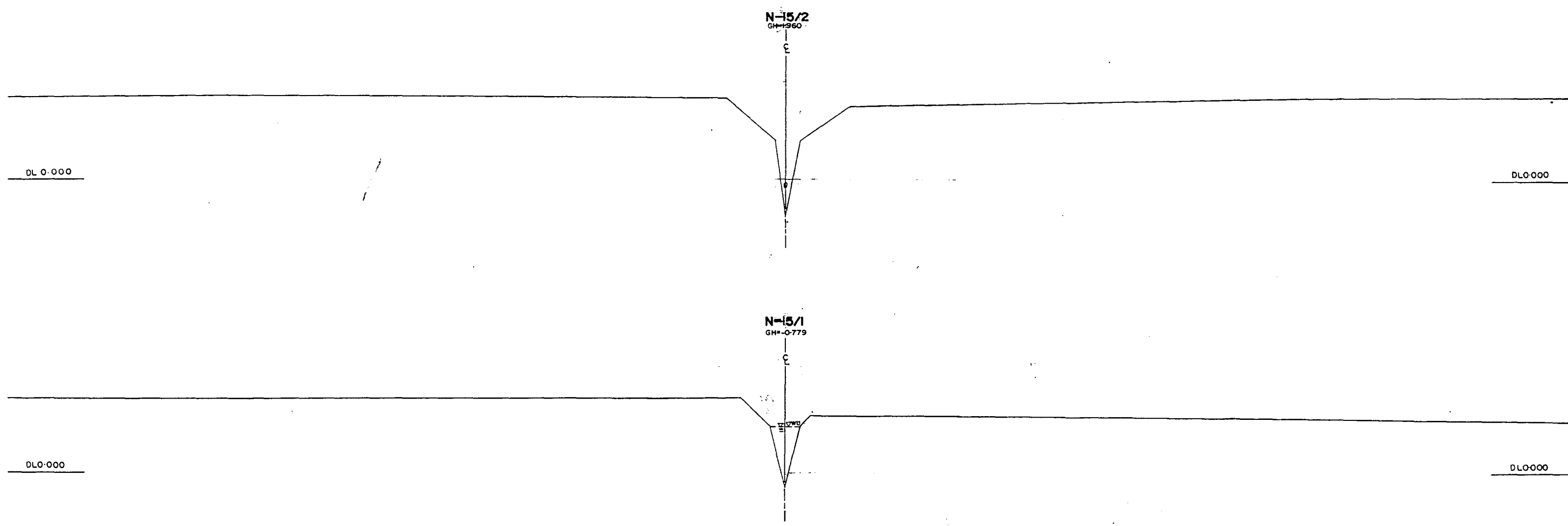
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LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

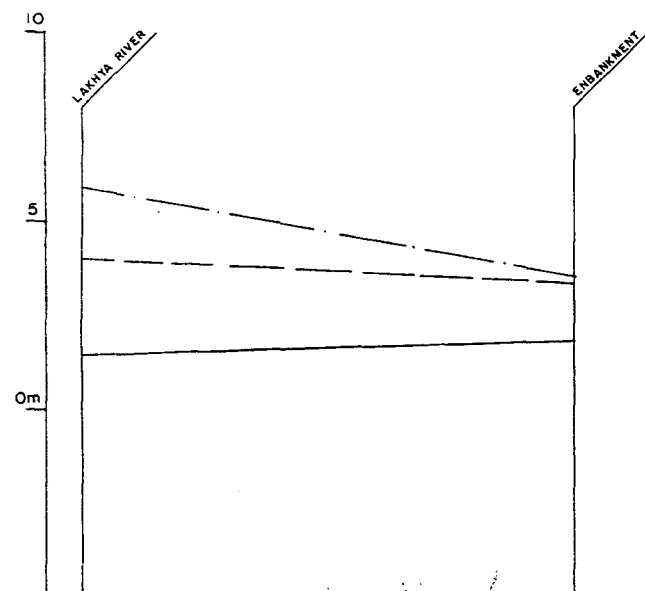
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-15		SCALE	H=1:5000 V=1:100
DWG. NO.	KN L 21	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

292



* L/R FACING TO UP STREAM

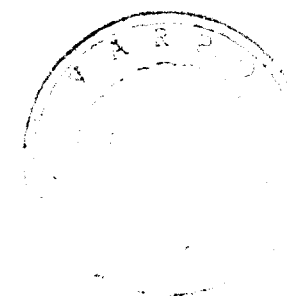
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-15		SCALE	H=1:200 V=1:100
DWG NO	KN C24	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



DL = -5.00 m (PWD)

PROPOSED TOP ELEVATION OF BANK	
PROPOSED DESIGN WATER LEVEL	
PROPOSED INVERT ELEVATION	
EXISTING GROUND ELEVATION	1.163 1.642
DISTANCE (M)	0 650
ACCUMULATED DISTANCE (M)	0 650
STATION NO	- 2

LEGEND
 EXISTING LEFT GROUND LINE -----
 EXISTING RIGHT GROUND LINE -----
 EXISTING BOTTOM LINE -----
 * L/R FACING TO UP STREAM



GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-16		SCALE	H=1:5000 V=1:100
DWG NO	KN L 22	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

278

N-16/2

GH=1842

CL

2%L

DLO-000

DLO-000

N-16/1

GH=1453

CL

JUTE MILLE AREA

JUTE MILLE AREA

2%L

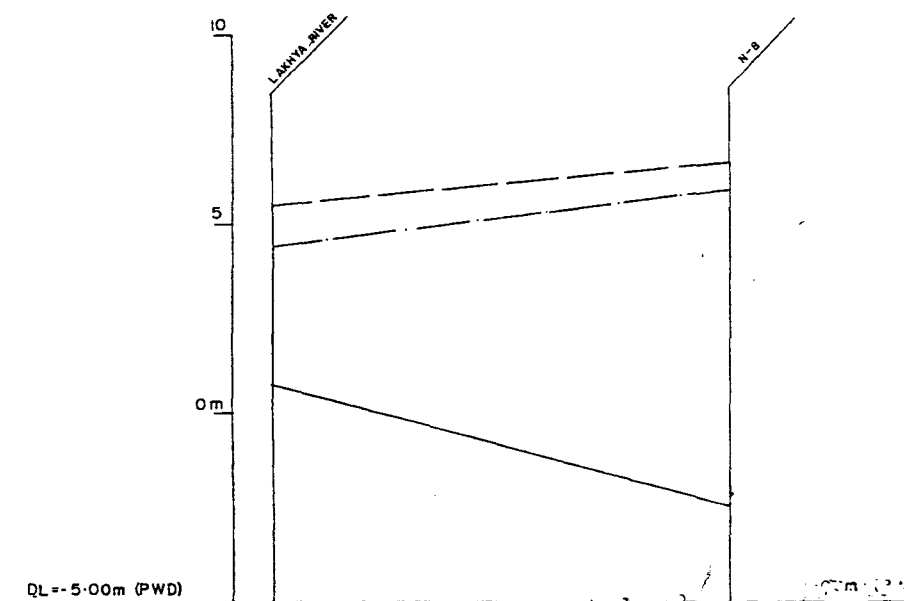
DLO-000

DLO-000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-16		SCALE	H=1:200 V=1:100
DWG NO	KN C25	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

27 V

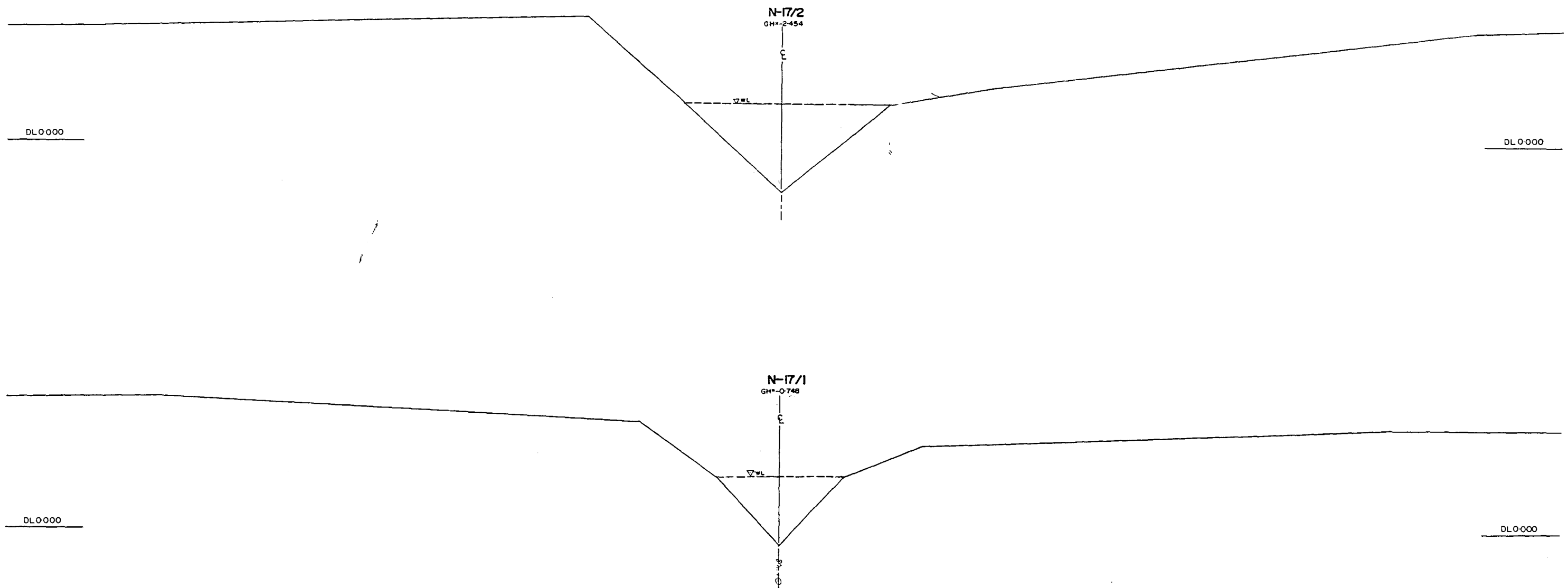


PROPOSED TOP ELEVATION OF BANK		
PROPOSED DESIGN WATER LEVEL		
PROPOSED INVERT ELVATION		
EXISTING GROUND ELEVATION	0.748	-2.454
DISTANCE (M)	0	600m
ACCUMULATED DISTANCE (M)	0	600m
STATION NO.	2	2

LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-17		SCALE	H=1:5000 V=1:100
DWG NO	KN L23	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

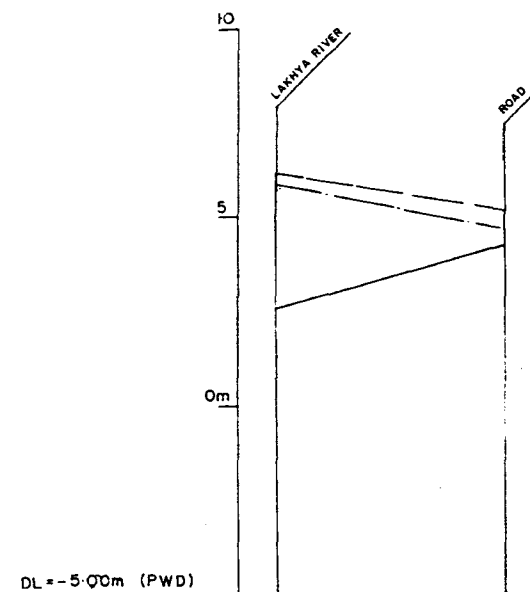
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★ L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-17		SCALE	H=1:200 V=1:100
DWG NO	KN C26	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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PROPOSED TOP ELEVATION OF BANK		
PROPOSED DESIGN WATER LEVEL		
PROPOSED INVERT ELEVATION		
EXISTING GROUND ELEVATION	2.622	4.305
DISTANCE (M)	0	300
ACCUMULATED DISTANCE (M)	0	300
STATION NO	1	2

LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-18	SCALE	H=1:5000 V=1:100	
DWG NO	KN L24	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

2/5

N-18/2

GM=4.305

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DL0+000

DL0+000

N-18/1

GM=2.622

℄

COTTEN HILL

MILL

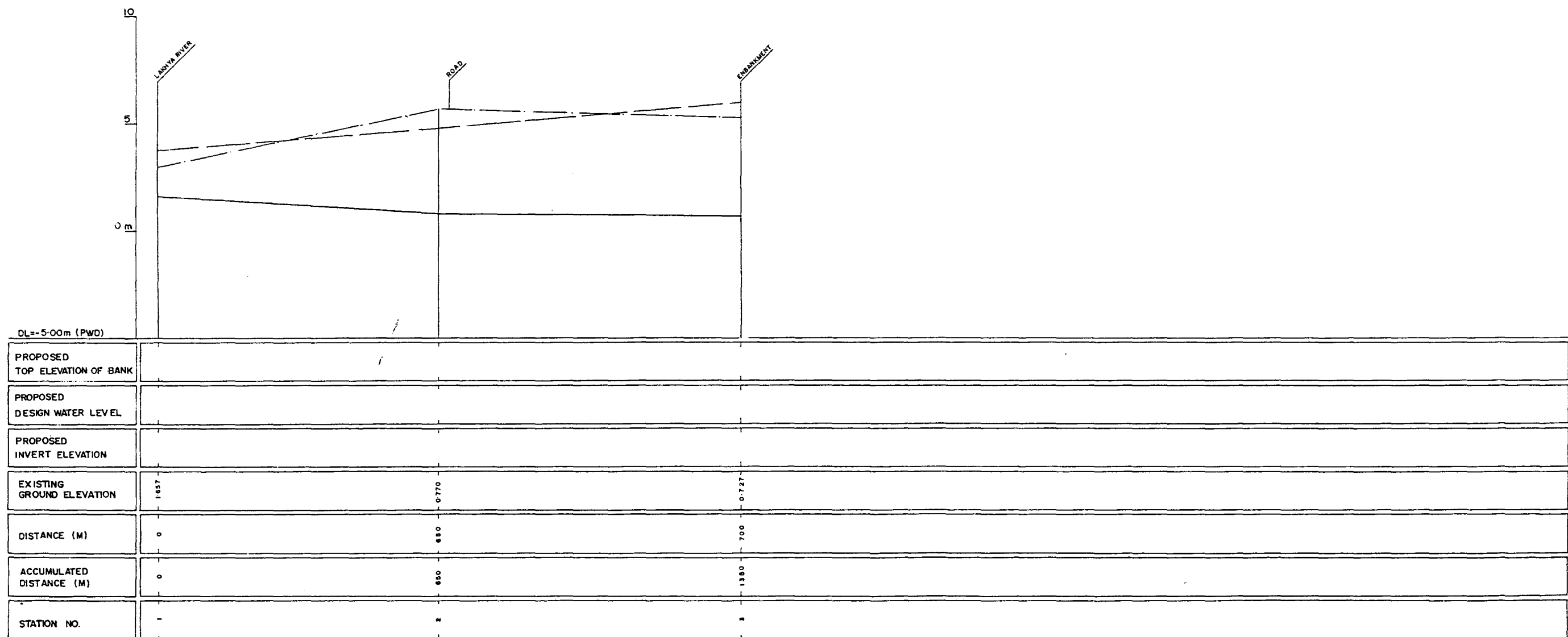
DL0+000

DL0+000

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
N-18		SCALE	H=1:200 V=1:100
DWG NO	KN C 27	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

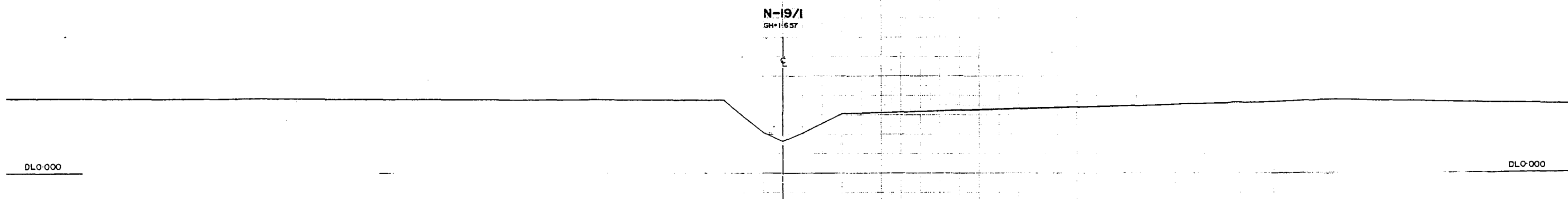
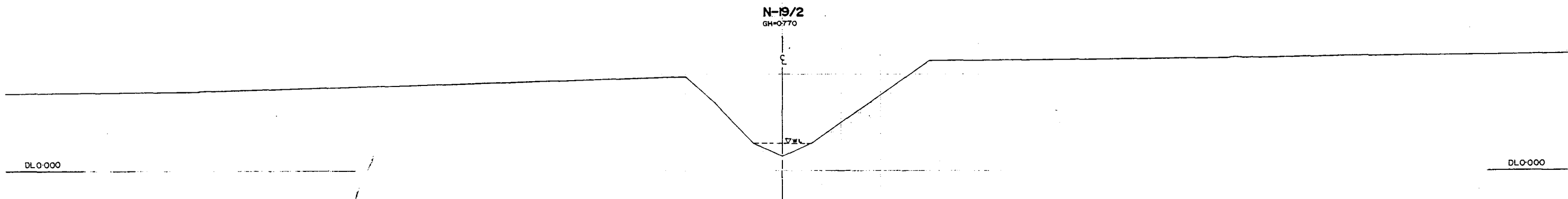
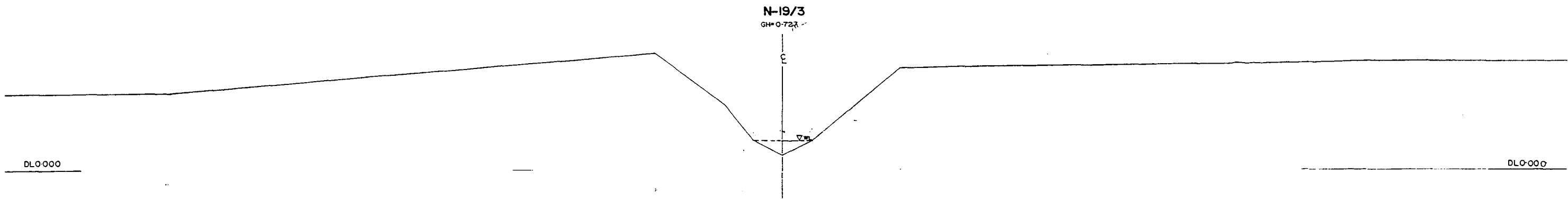
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LEGEND
EXISTING LEFTGROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

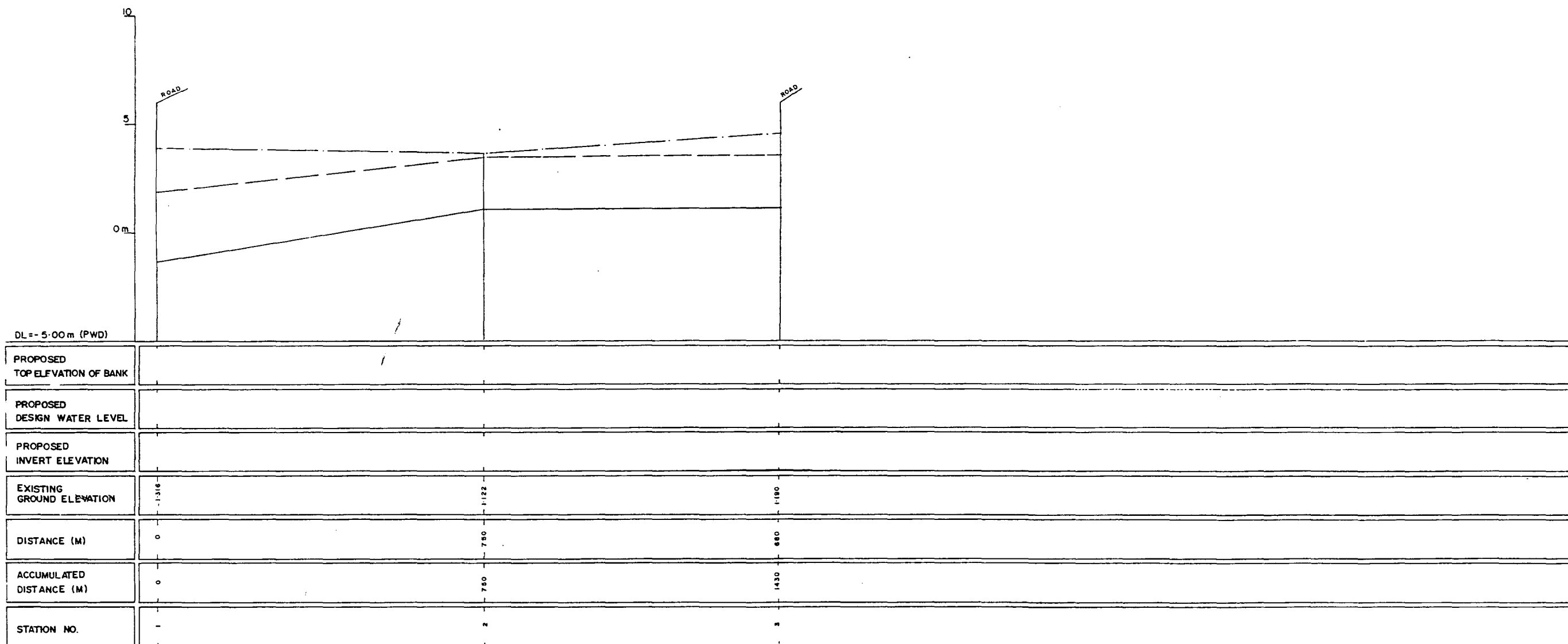
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-19		SCALE	Horizontal: 1:5000 Vertical: 1:100
DWG NO	KN L25	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-19		SCALE	M=1200 V=1:100
DWG NO	KN C 28	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

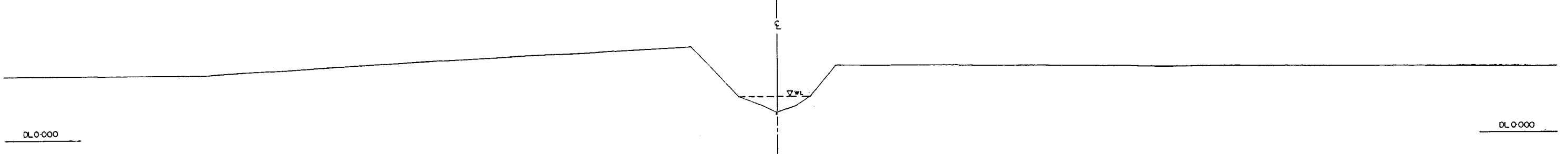


LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

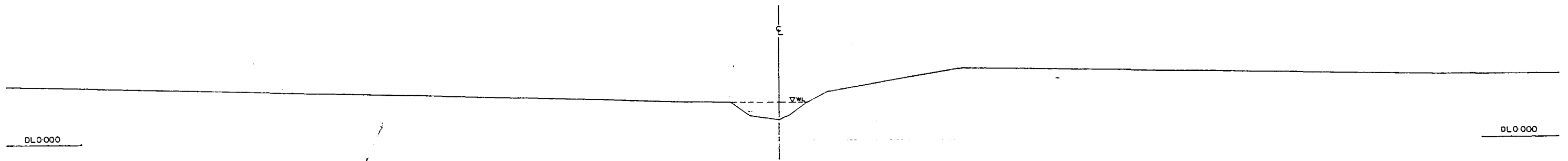
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-20		SCALE	H=1:5000 V=1:100
DWG NO	KN L 26	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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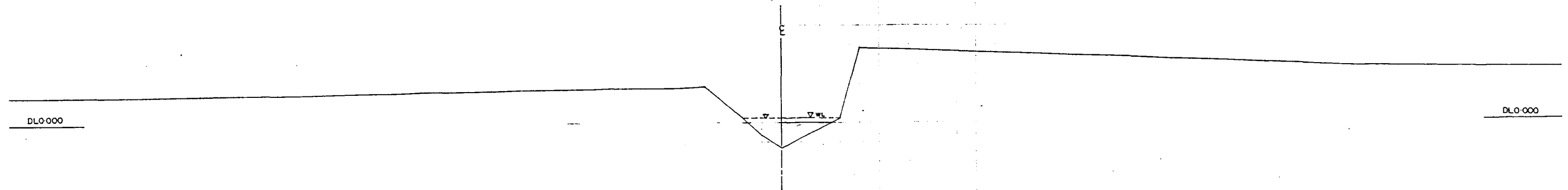
N-20/3
GM+130



N-20/2
GM+122



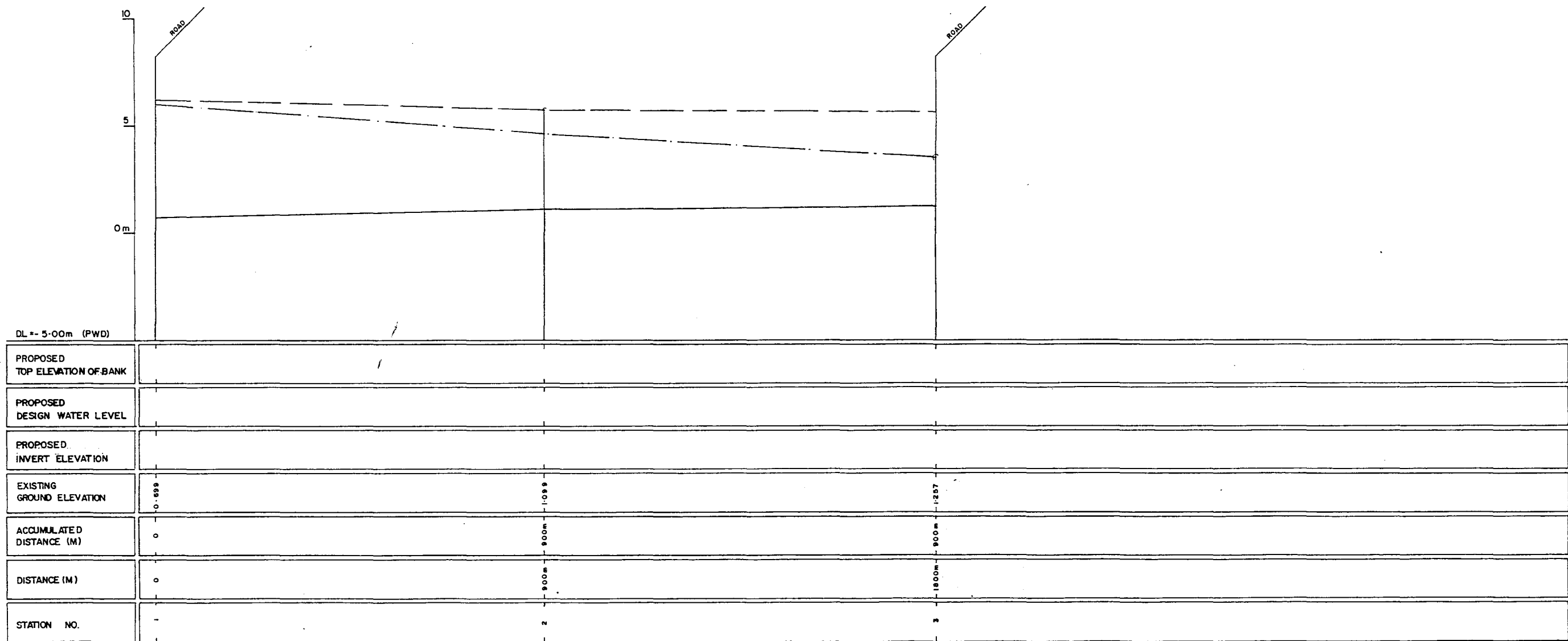
N-20/1
GM+316



#L/R FACING TO UP. STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-20		SCALE	H=200 V=100
DWG NO	KN C29	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

2/10



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
*L/R FACING TO UP STREAM

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-21		SCALE	H:1:5000 V:1:100
DWG NO	KN L27	DATE	March '99
JAPAN INTERNATIONAL COOPERATION AGENCY			

2/88

N-21/2
GH=0.699

3

DLO-000

DLO-000

N-21/1
GH=0.699

3

DLO-000

DLO-000

3 L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-21		SCALE	H=1:200 V=1:100
DWG NO:	KN C30	DATE	March - 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

219

N-21/3
GH#11257

3

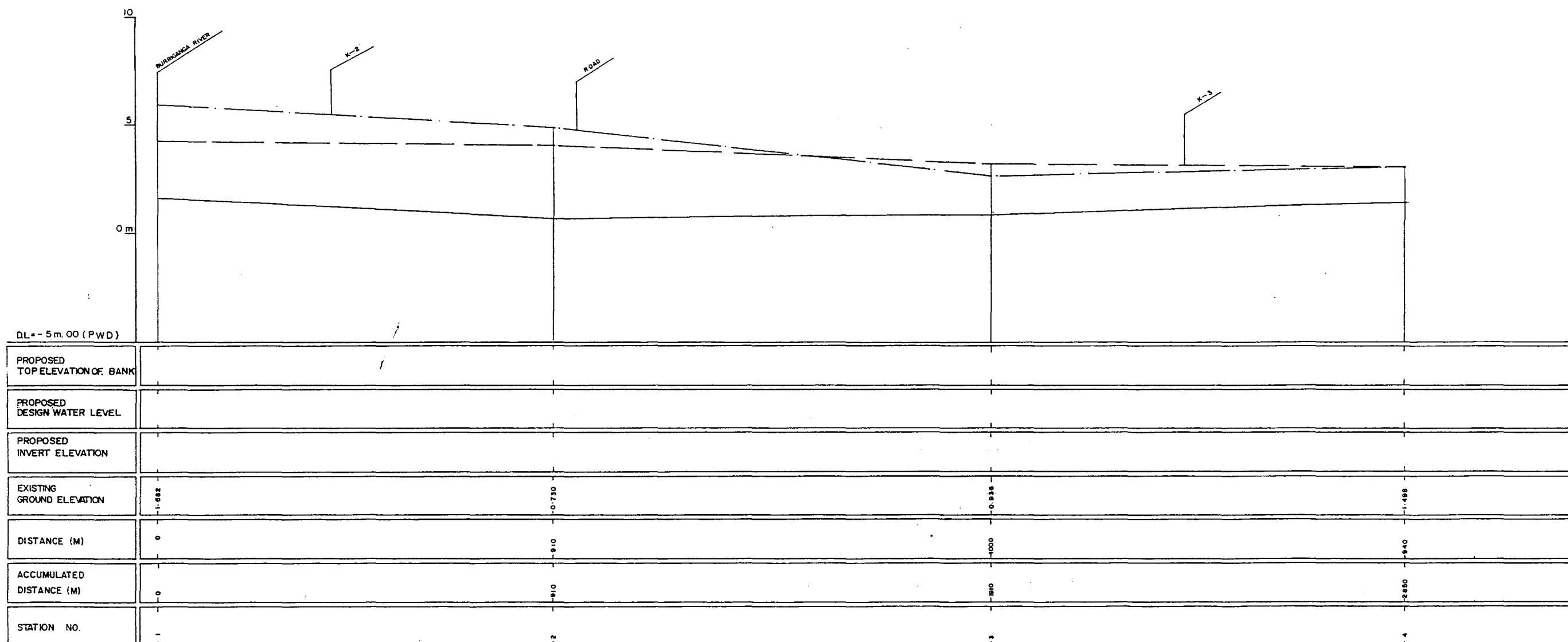
DLO-000

DLO-000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-21		SCALE	H=1:200 V=1:100
DWG NO.	KN C31	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

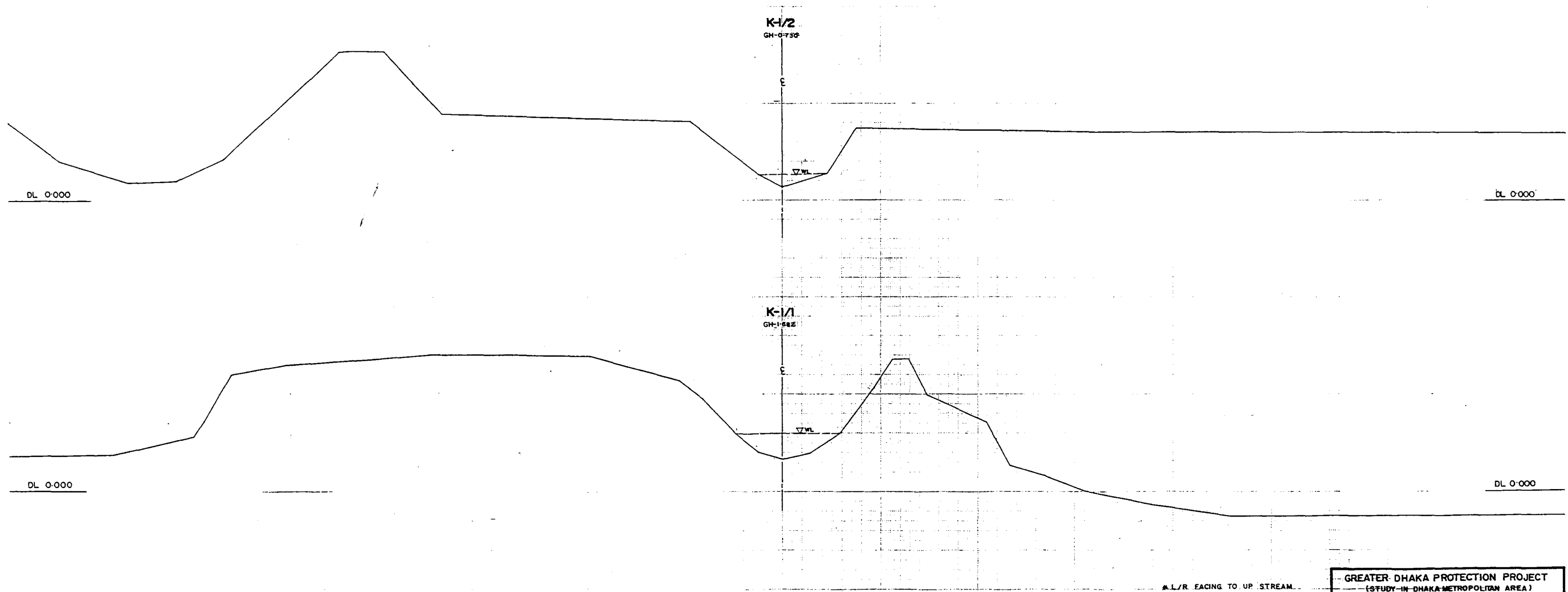
283



LEGEND
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 EXISTING RIGHT GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 *L/R FACING TO UP STREAM

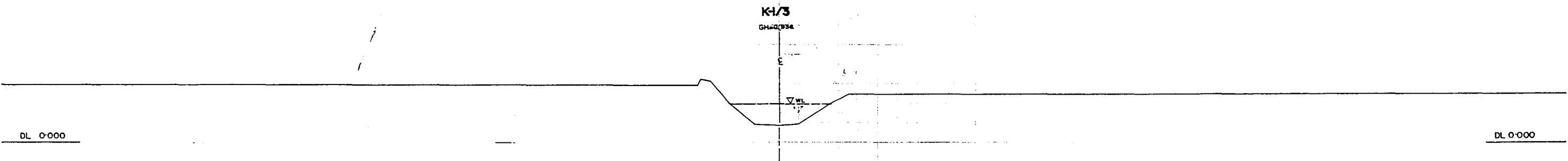
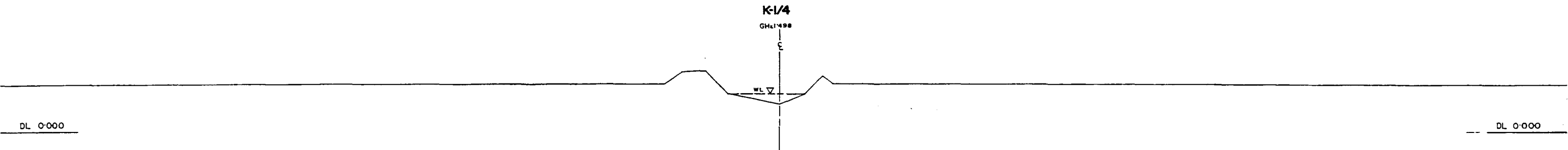
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
K-1		SCALE	H=1:5000 V=1:100
DWG. NO.	KK L1	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DWG. NO.	K-1	SCALE	H=1:200 V=1:500
DATE	March 1991		
JAPAN INTERNATIONAL CO OPERATION AGENCY			

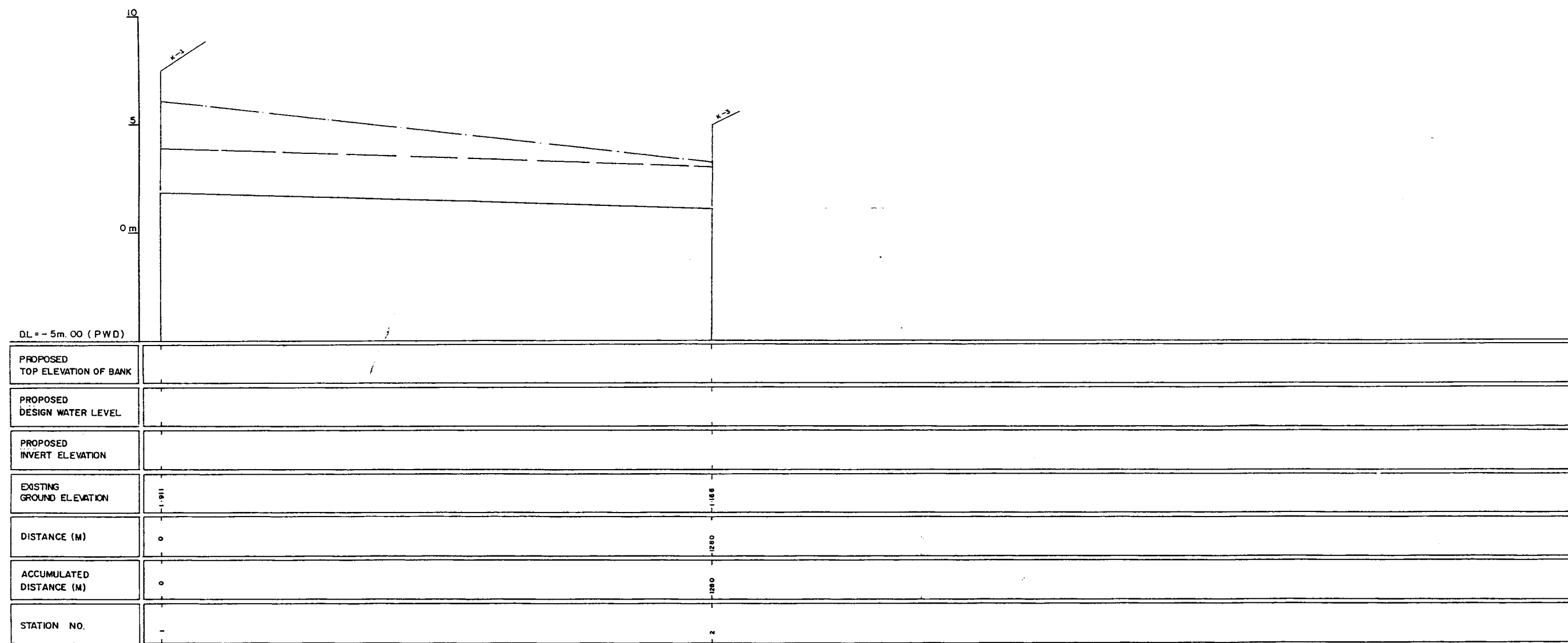
286



* L/R RACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY-IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-1		SCALE	H=1:200 V=1:100
DWG. NO.	KK C 2	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

27m



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

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

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

K-2

SCALE

HP 1:3000
VH 1:100

DWG. NO.

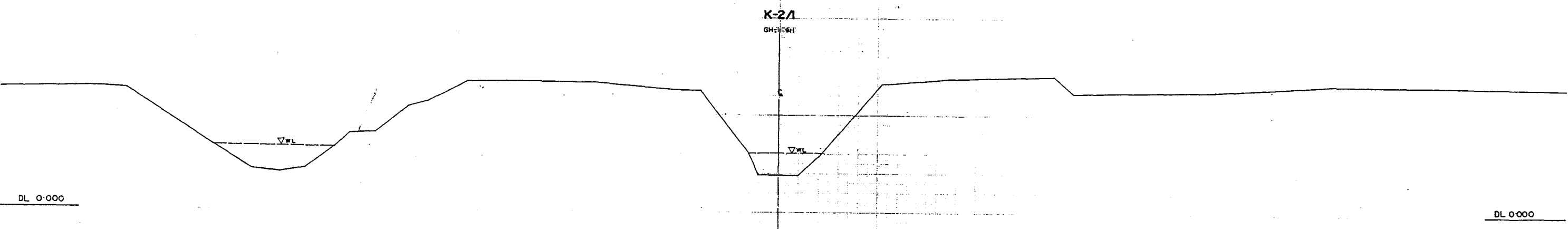
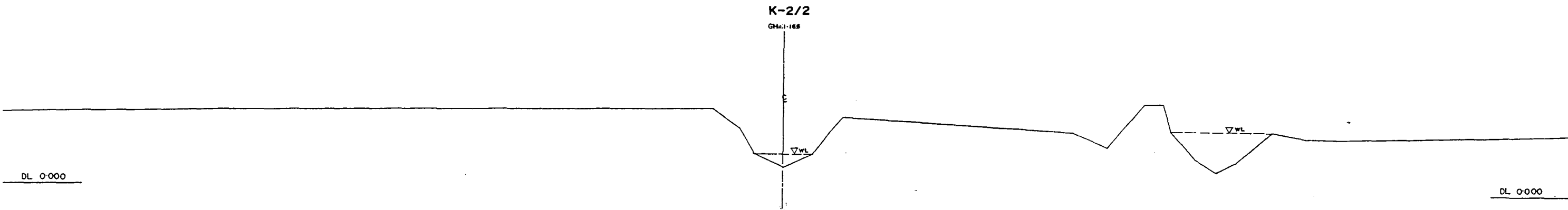
KK L 2

DATE

March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

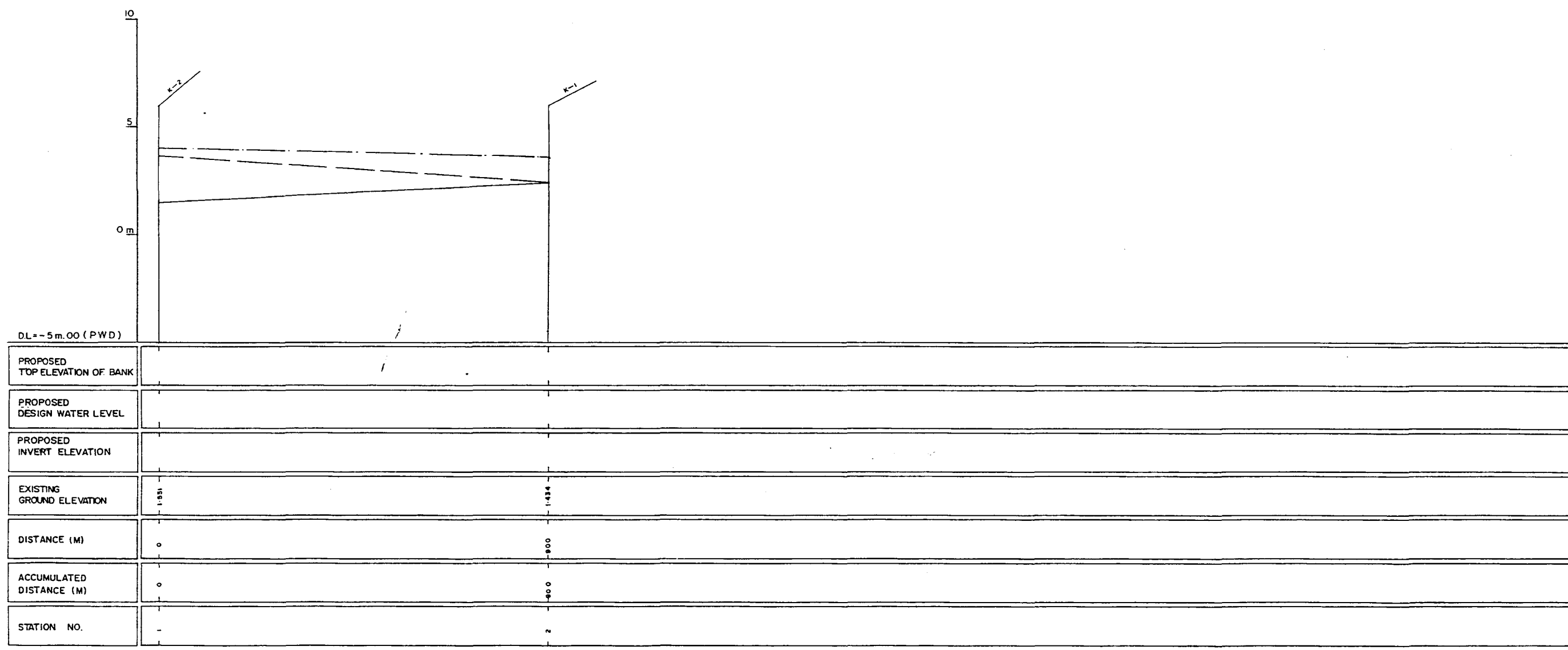
122



* L/R RACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-2	SCALE	H=1:200 V=1:100	
DWG. NO. KKC3	DATE	March	1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

222

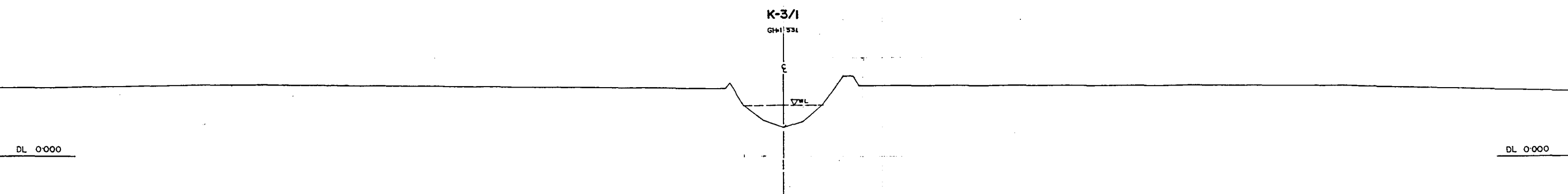
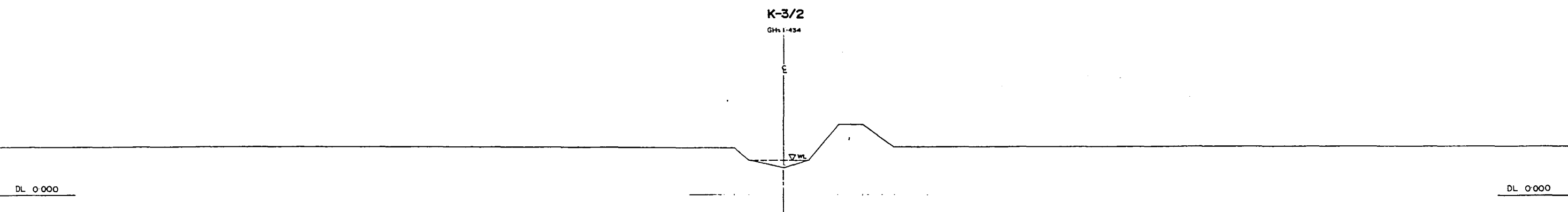


DL = -5 m.00 (PWD)

LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - . - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
K-3		SCALE	H=1:5000 V=1:100
DWG. NO.	KK L3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

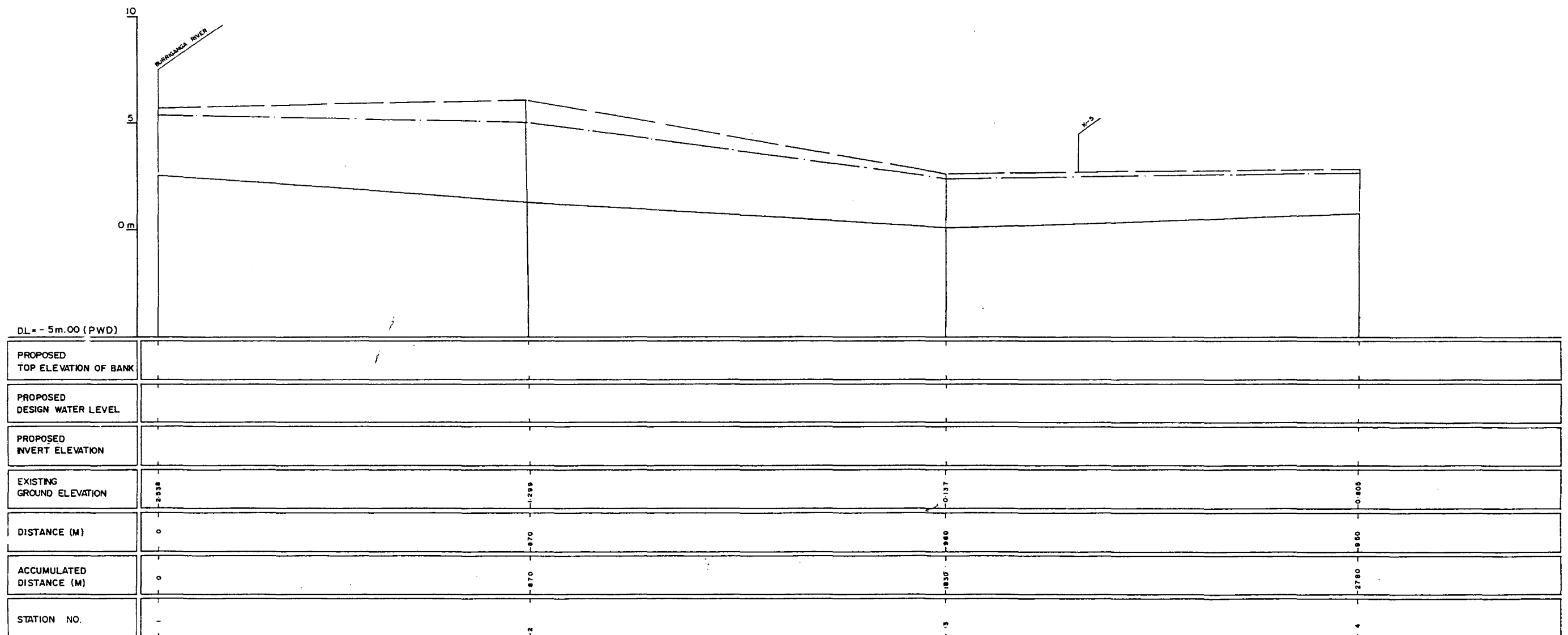
32



* L/R RACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-3		SCALE	H=1:200 V=1:100
DWG. NO.	K.K.C.4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

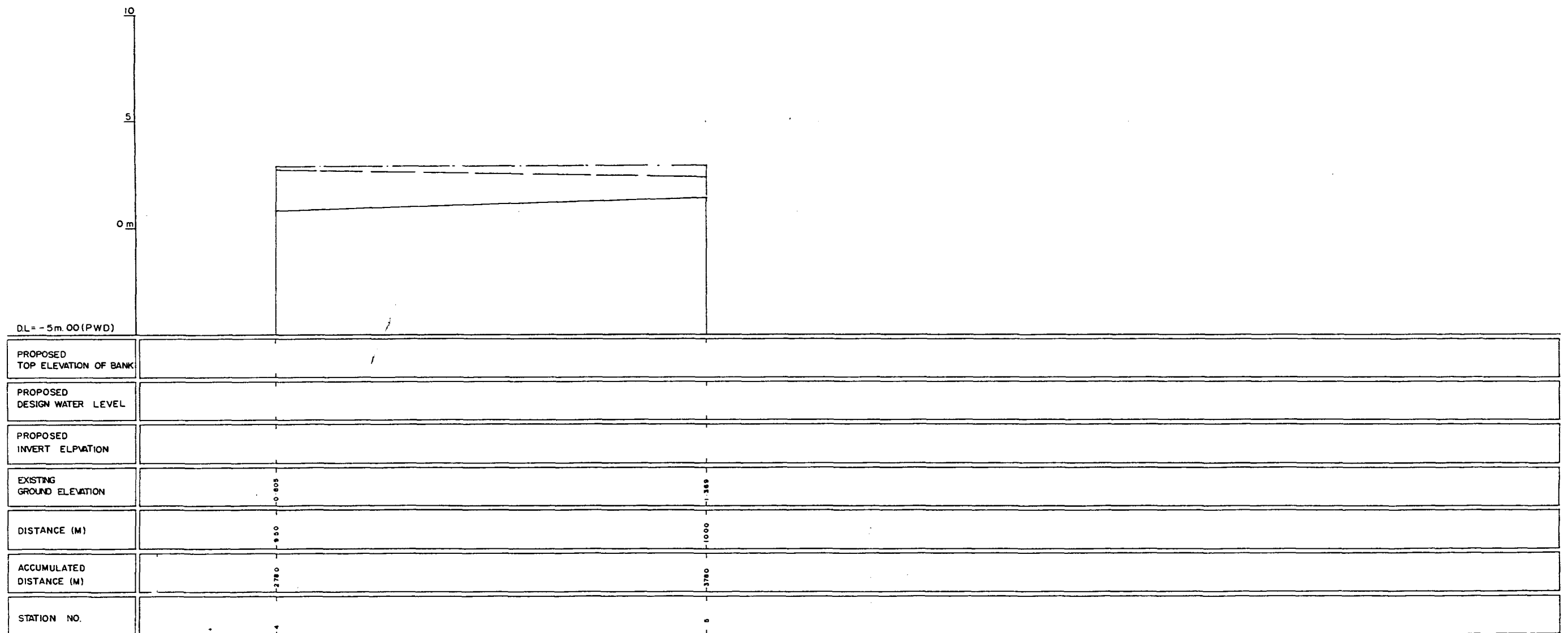
226



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
K-4		SCALE	H: 5000 V: 100
DWG. NO.	KK L 4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

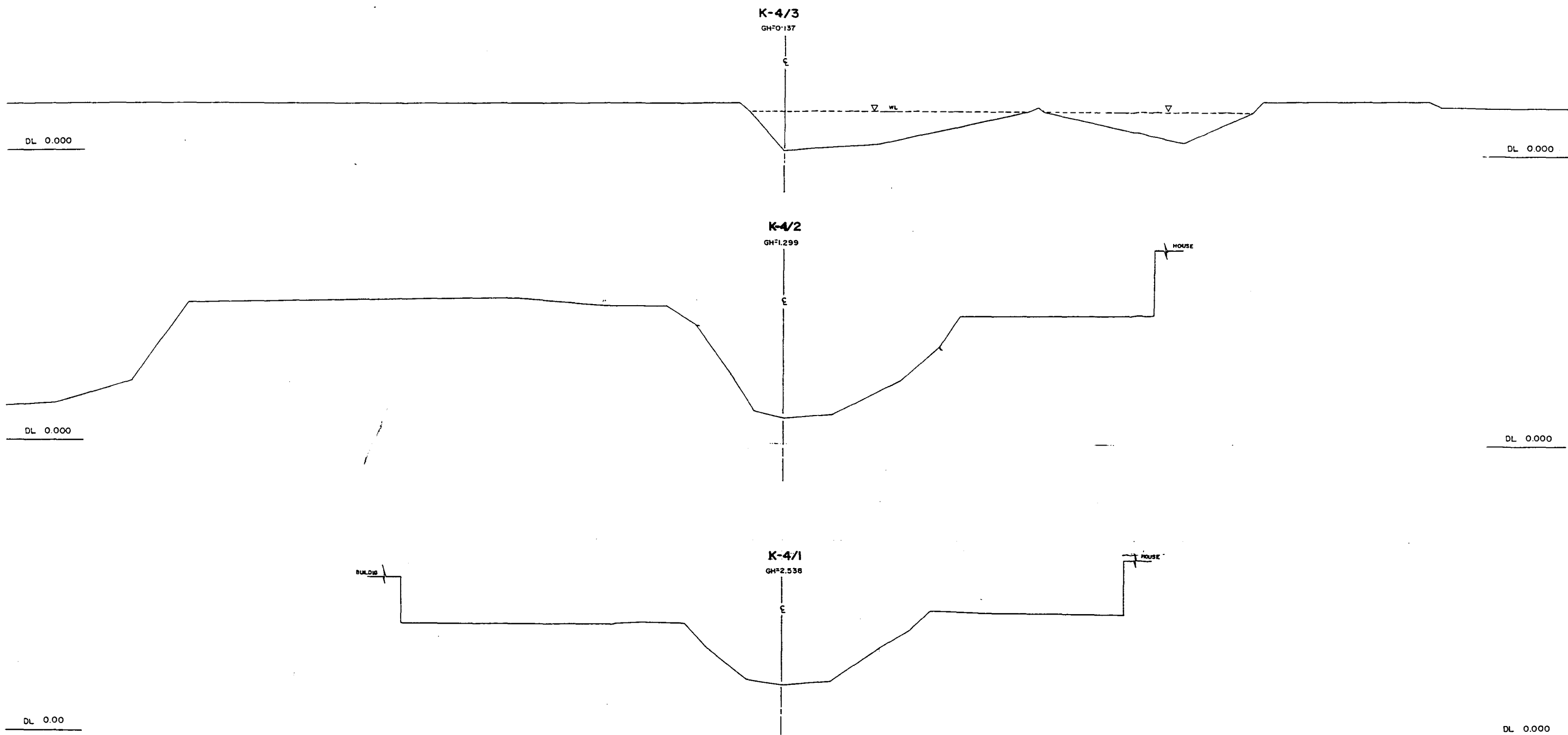
7/2/8



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STRAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-4		SCALE	H:V 1:5000 V:1:100
DWG. NO.	KK L 5	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

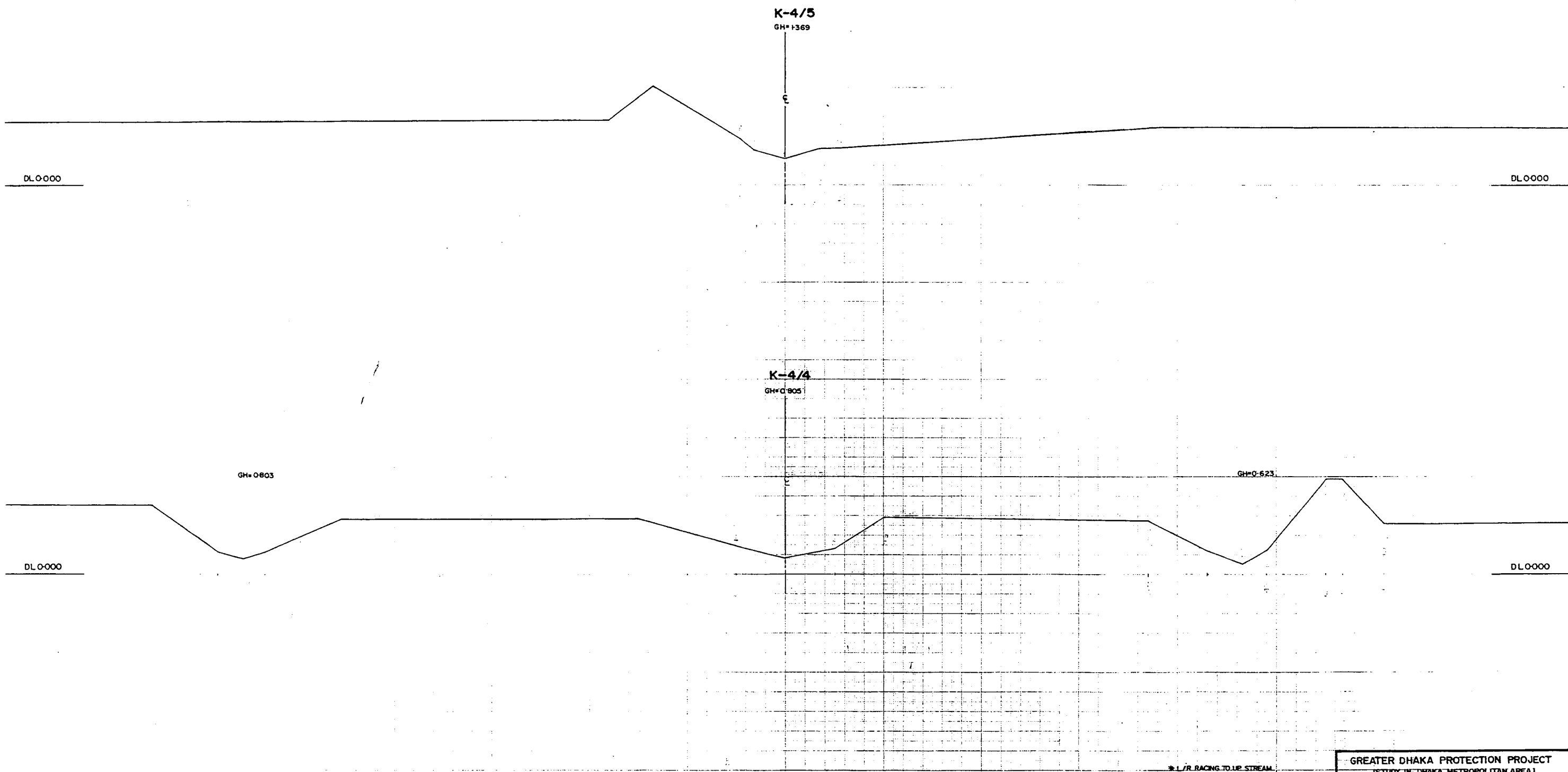
200



* L/R RACING TO UP STREAM

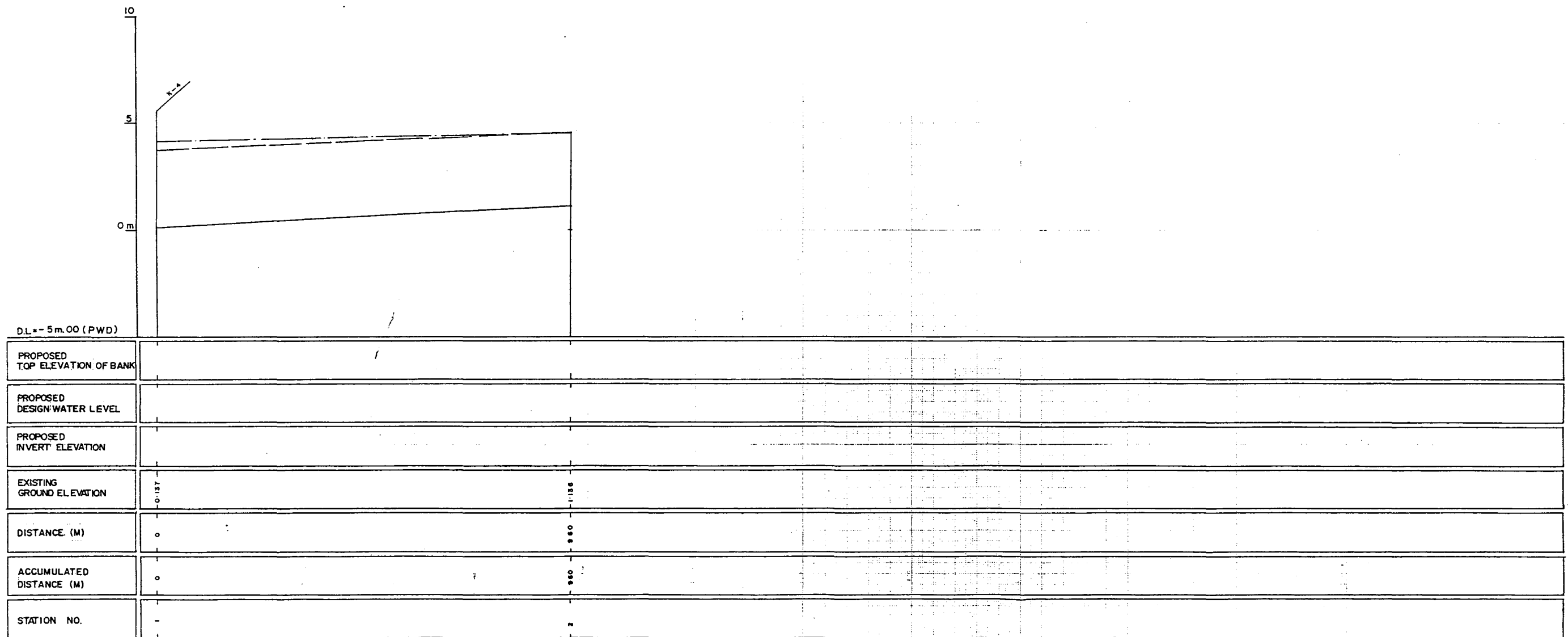
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-4		SCALE	H=1:200 V=1:100
DWG. NO.	KK C 5	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-4		SCALE	H=1:200 V=1:100
DWG. NO.	KK 66	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-5		SCALE	H=1:5000 V=1:100
DWG. NO.	KK L 6	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

mt

K-5/2

GH=1136

E

▽WL

K-5/1

GH=1137

E

▽WL

DL 0+000

DL 0+000

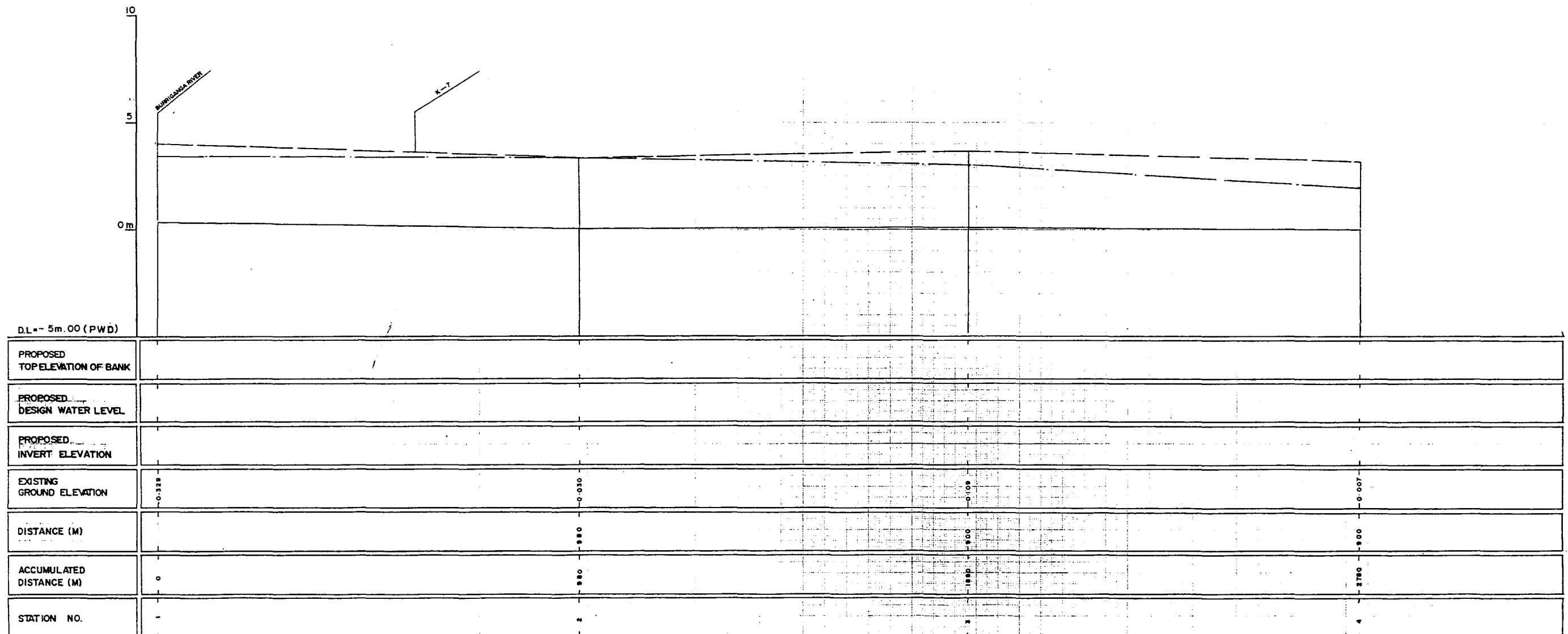
DL 0+000

DL 0+000

#L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA-METROPOLITAN AREA I)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-5		SCALE	H=1:200 V=1:100
DWG. NO.	KK C-7	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

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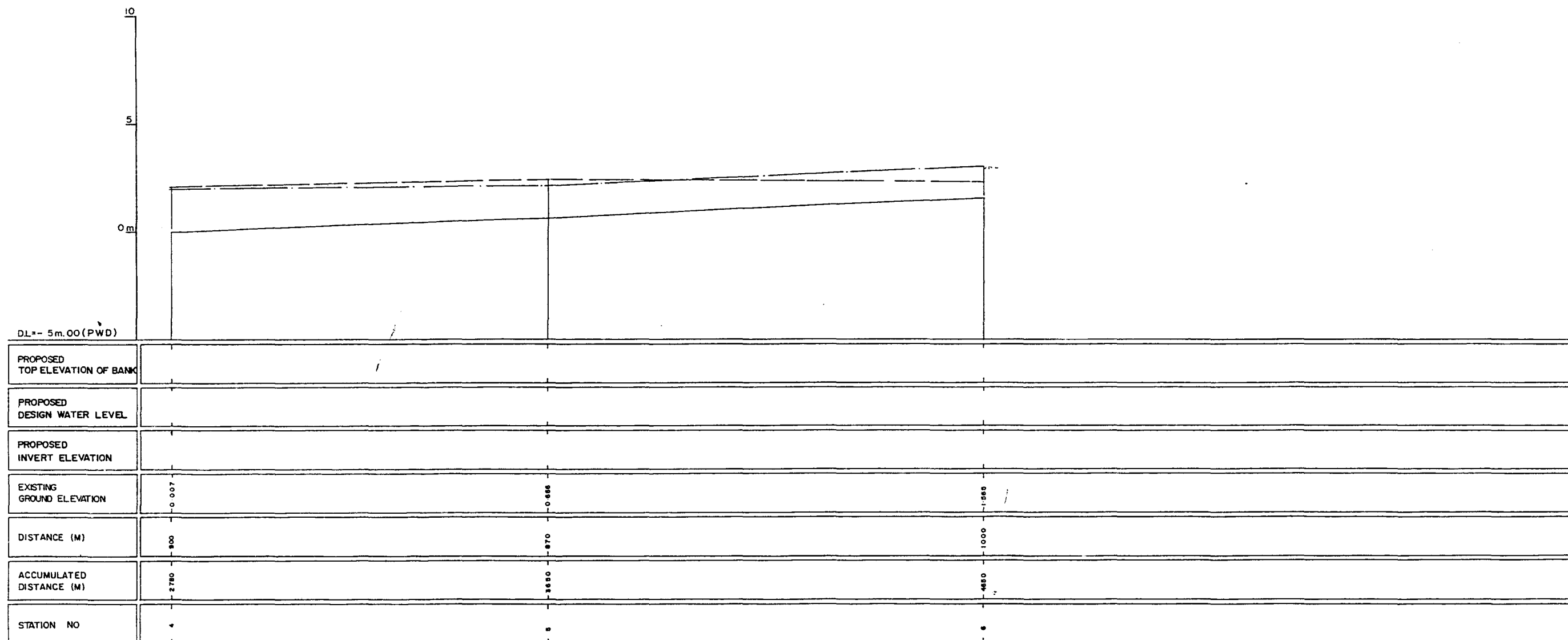


LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

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

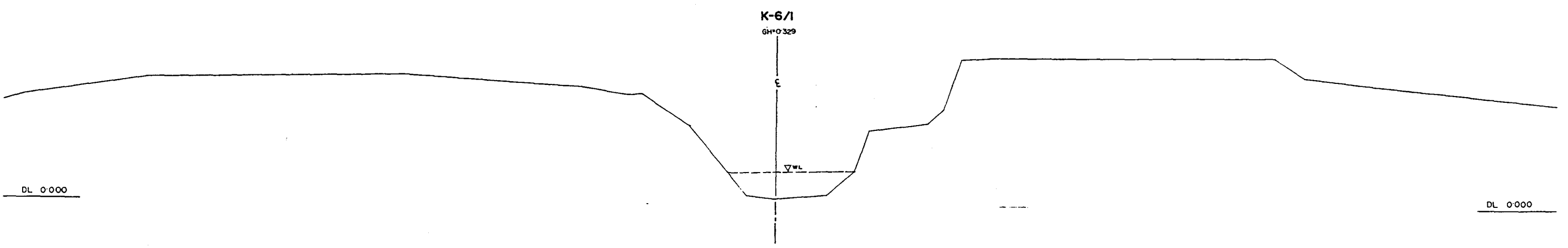
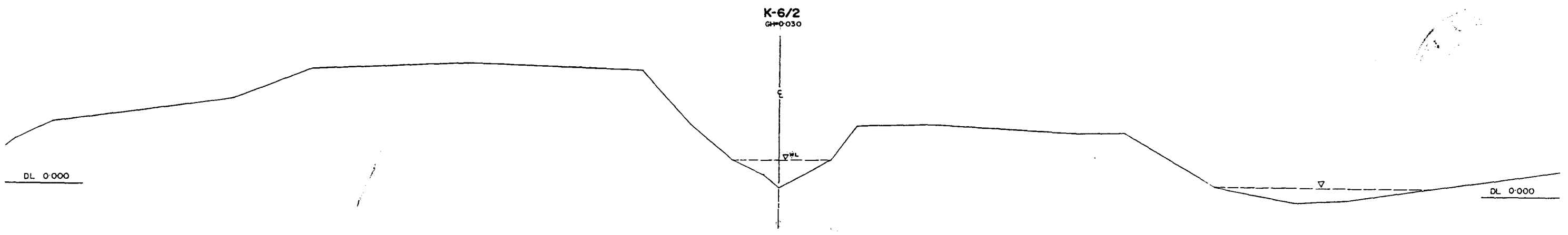
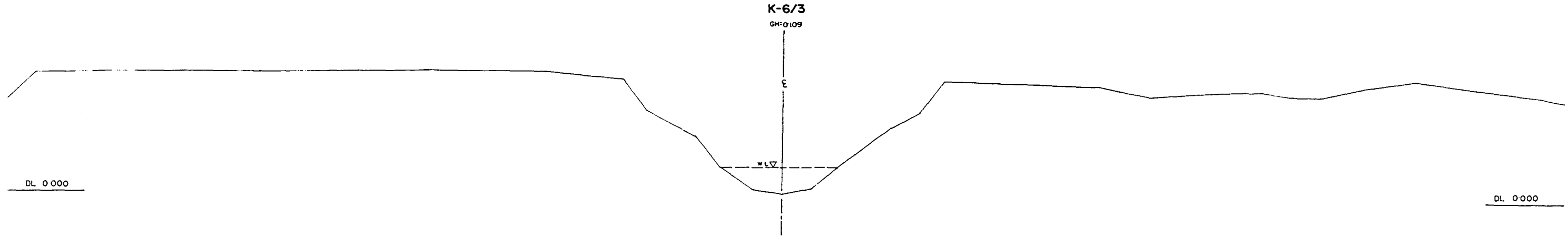
K-6	SCALE	H=1:5000 V=1:100
DWG. NO. KK L7	DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND
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 EXISTING RIGHT GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 * L R FACING TO UP STREAM

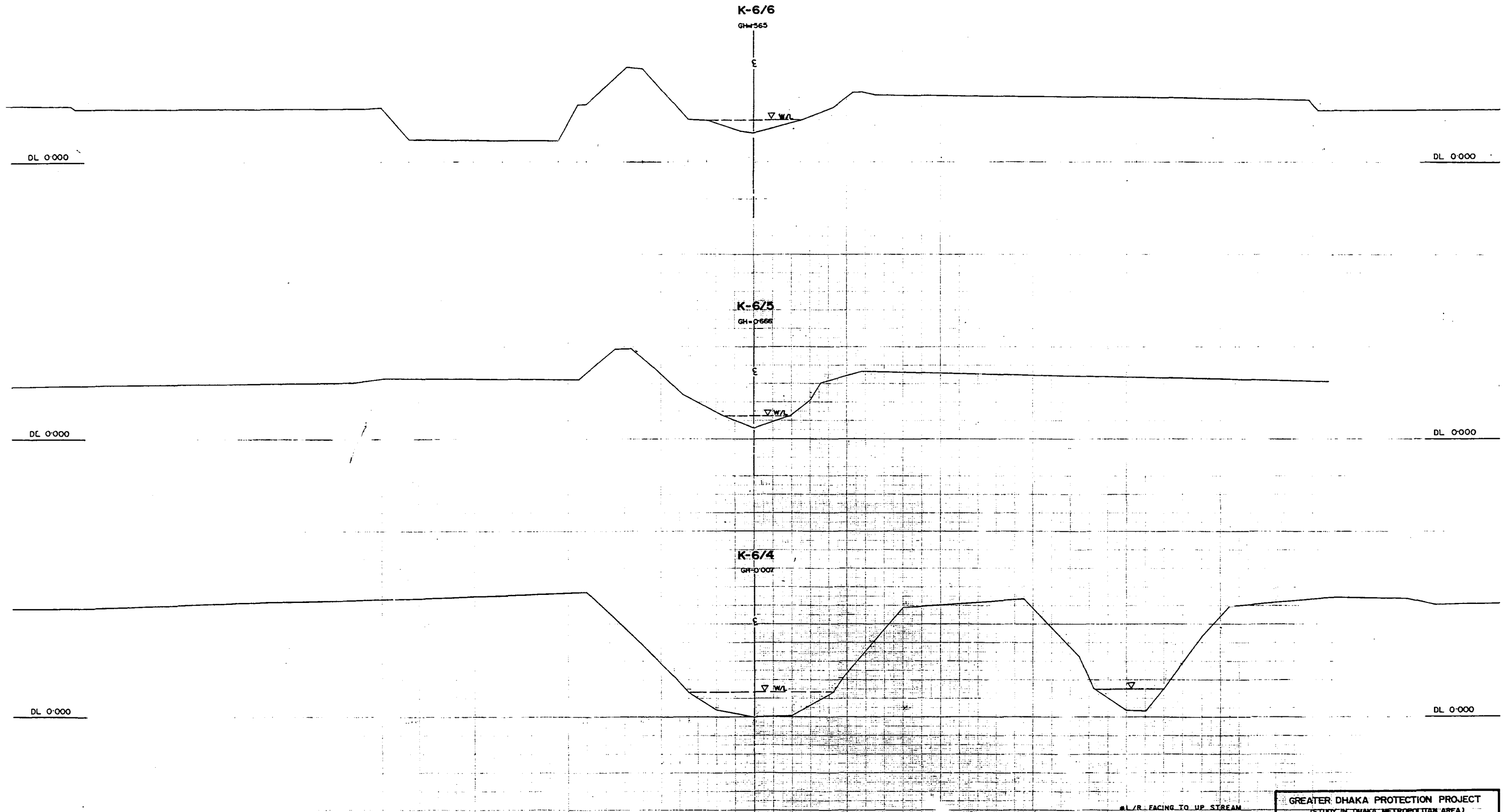
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-6		SCALE	H=1:5000 V=1:100
DWG. NO.	KK L 8	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



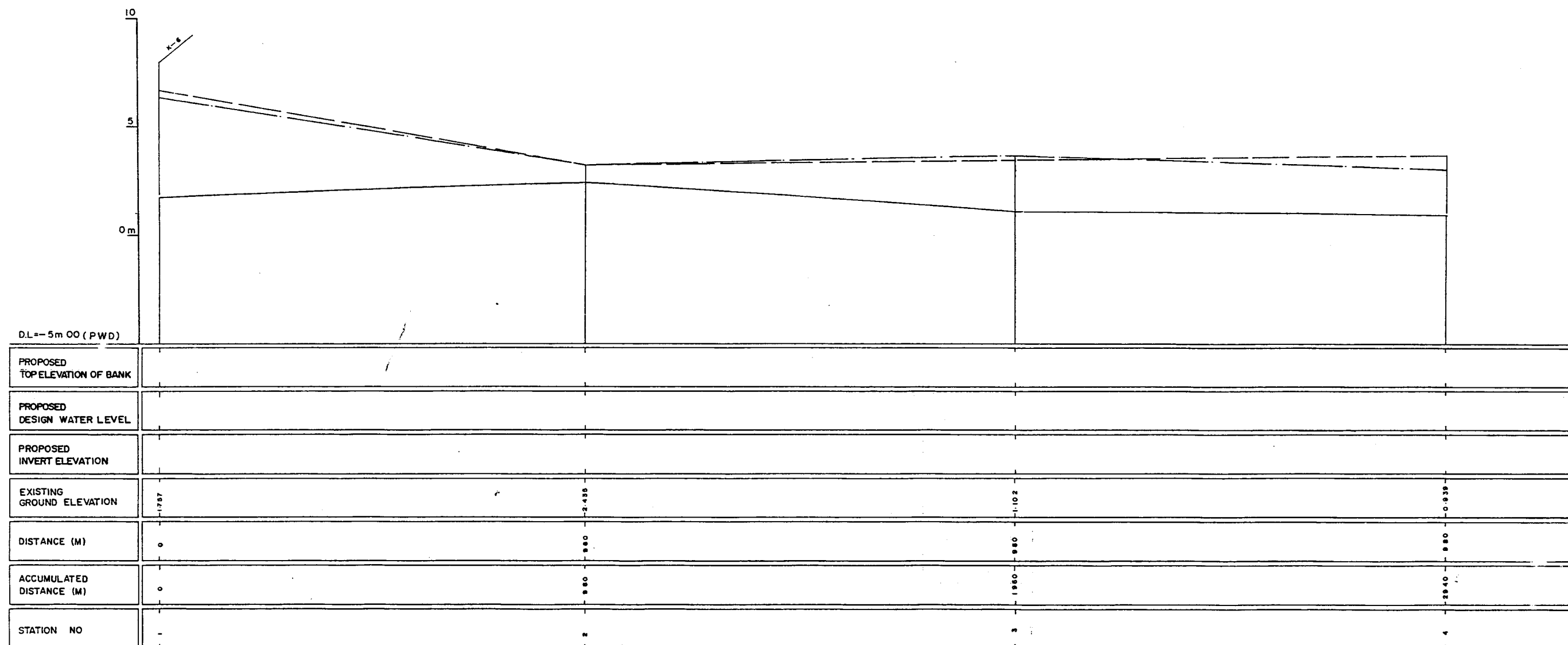
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-6		SCALE	H=1:200 V=1:100
DWG.NO.	P-KK C B	DATE	March 1991
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			
CROSS SECTION OF CANAL			
K-6		SCALE	H=1:200 V=1:500
DWG. NO.	KK.C9	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - . - . -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-7		SCALE	H=1:5000 V=1:100
DWG NO	KK L9	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

208

K-7/2
GH=2.435

E

SWL

DL 0+000

DL 0+000

K-7A
GH=1.757

E

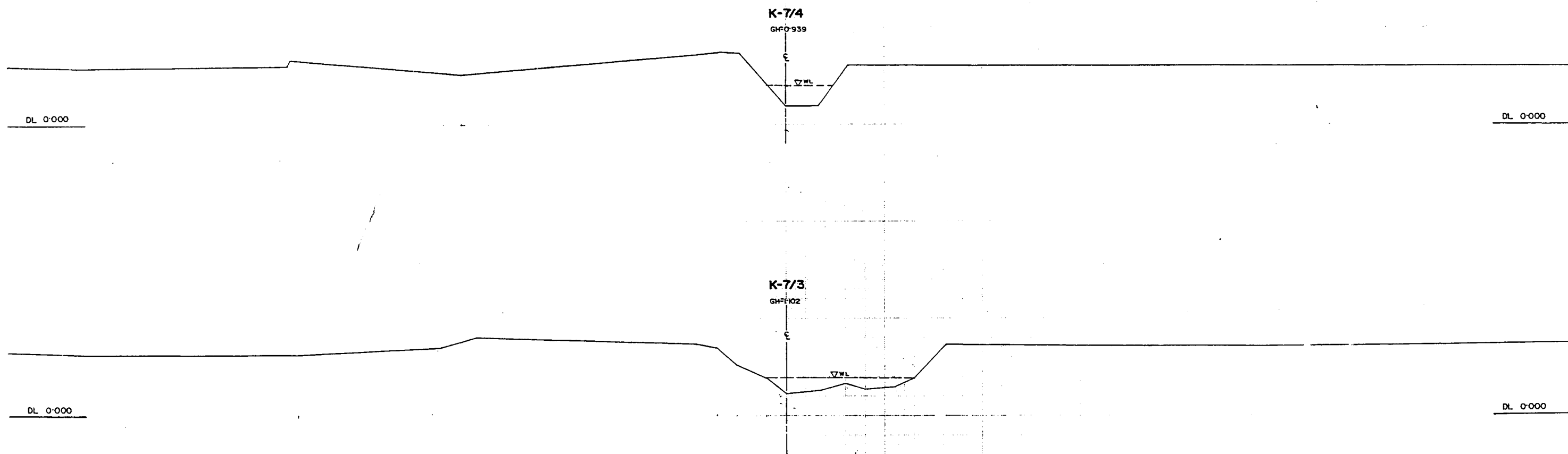
DL 0+000

DL 0+000

AL/R. FACING TO UP. STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-7	SCALE	H=1:200 V=1:100	
DWG. NO.	KK C.I.Q.	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

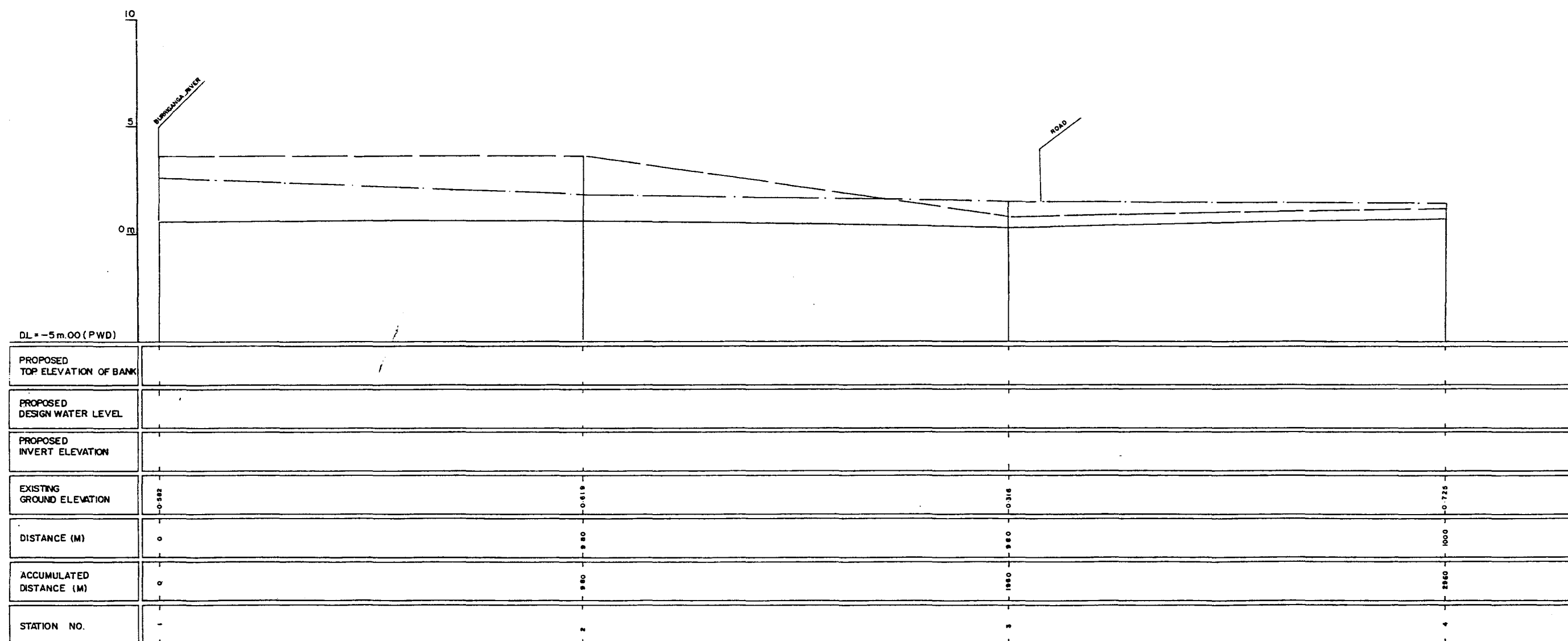
200



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-7		SCALE	H=1:200 V=1:50
DWG. NO.	KK-C-11	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

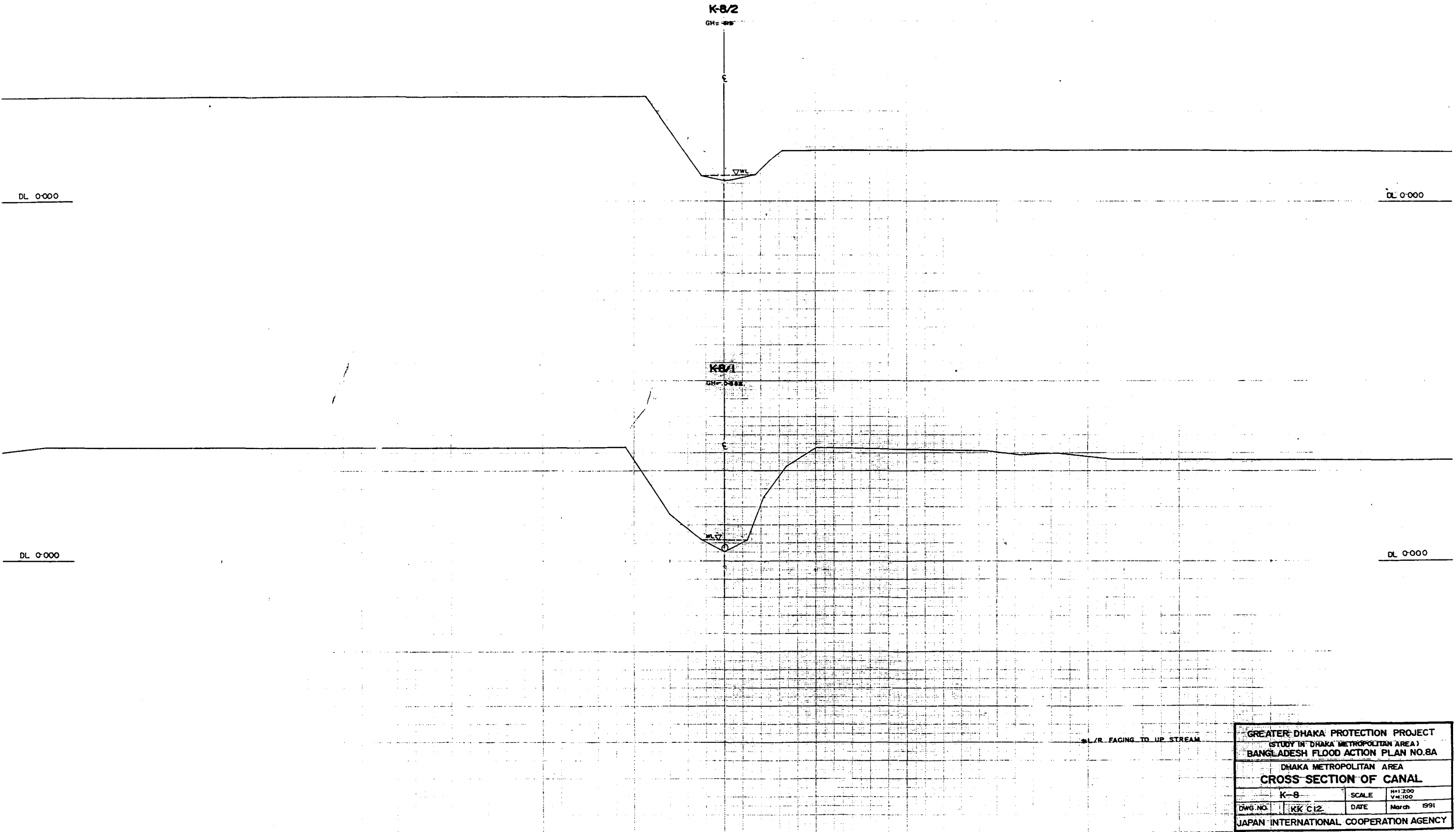
203



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM

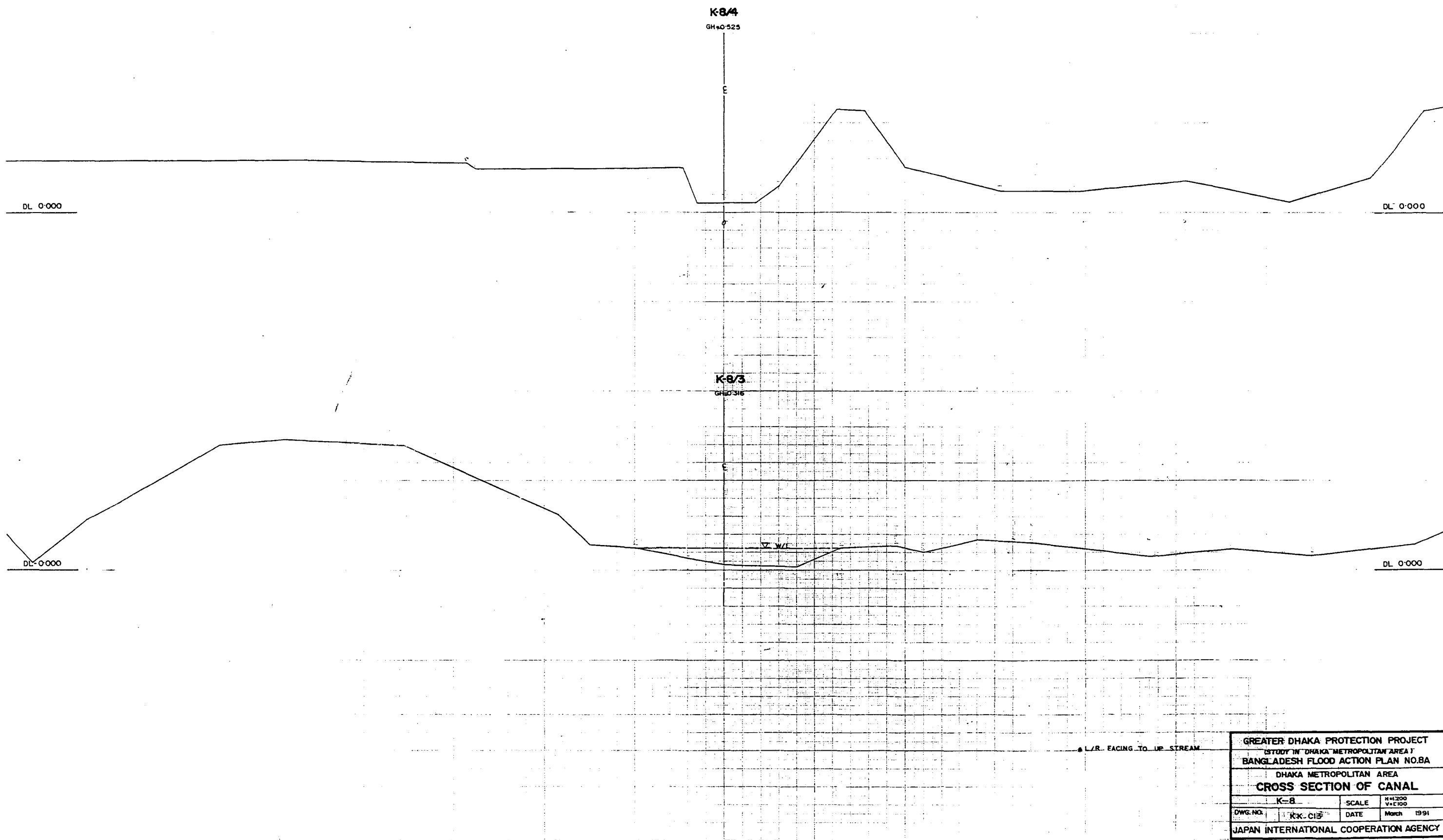
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-8		SCALE	H=1:5000 V=1:100
DWG. NO.	KK-L10	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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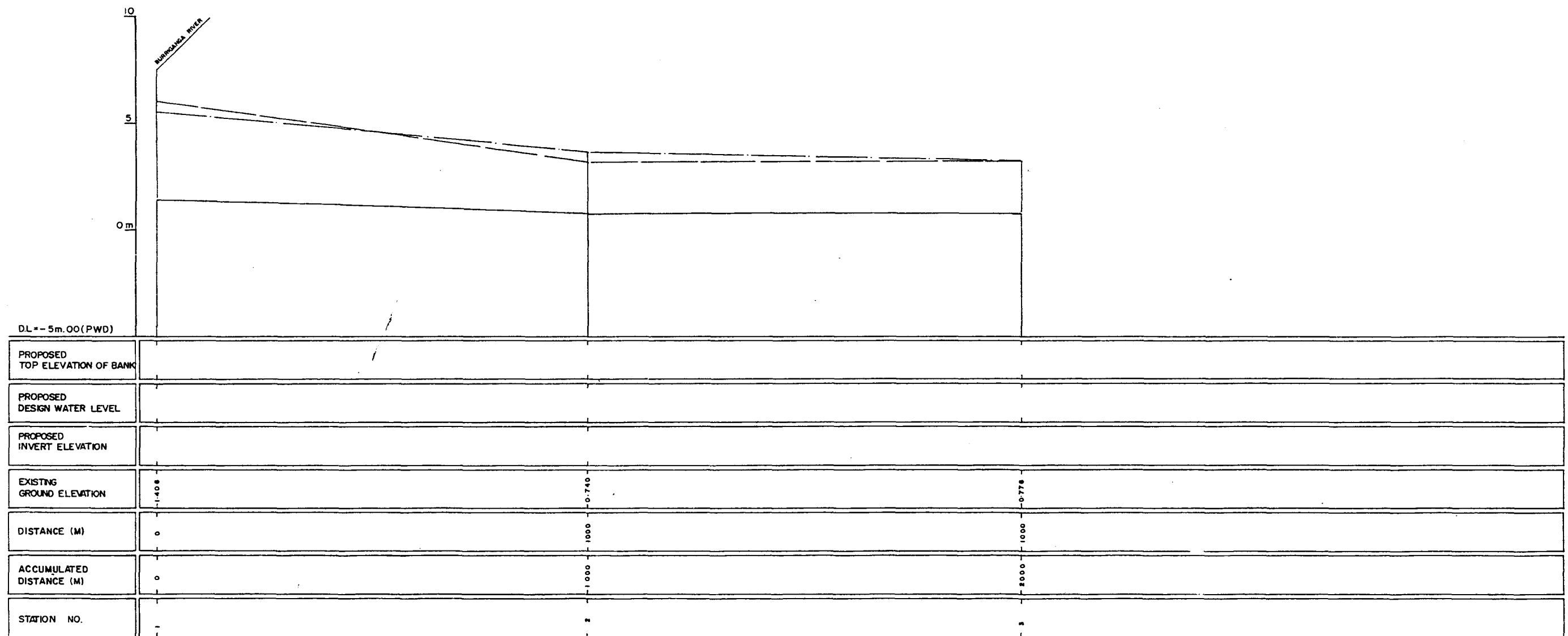
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-8		SCALE	H=1:200 V=1:100
DWG. NO.	KK C12	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-8		SCALE	H=1:200 V=1:100
DWG. NO.	KK-C13	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

282



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
K-9		SCALE	H=1:5000 V=1:100
DWG.NO.	KK LII	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

220

K-9/3
GH=0.776

ε

▽WL

DL 0.000

DL 0.000

K-9/2
GH=0.740

ε

▽WL

DL 0.000

DL 0.000

K-9/1
GH=0.406

ε

DL 0.000

DL 0.000

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-9		SCALE	H=1:200 V=1:100
DWG. NO.	KK C14	DATE	March 1994
JAPAN INTERNATIONAL CO-OPERATION AGENCY			

