

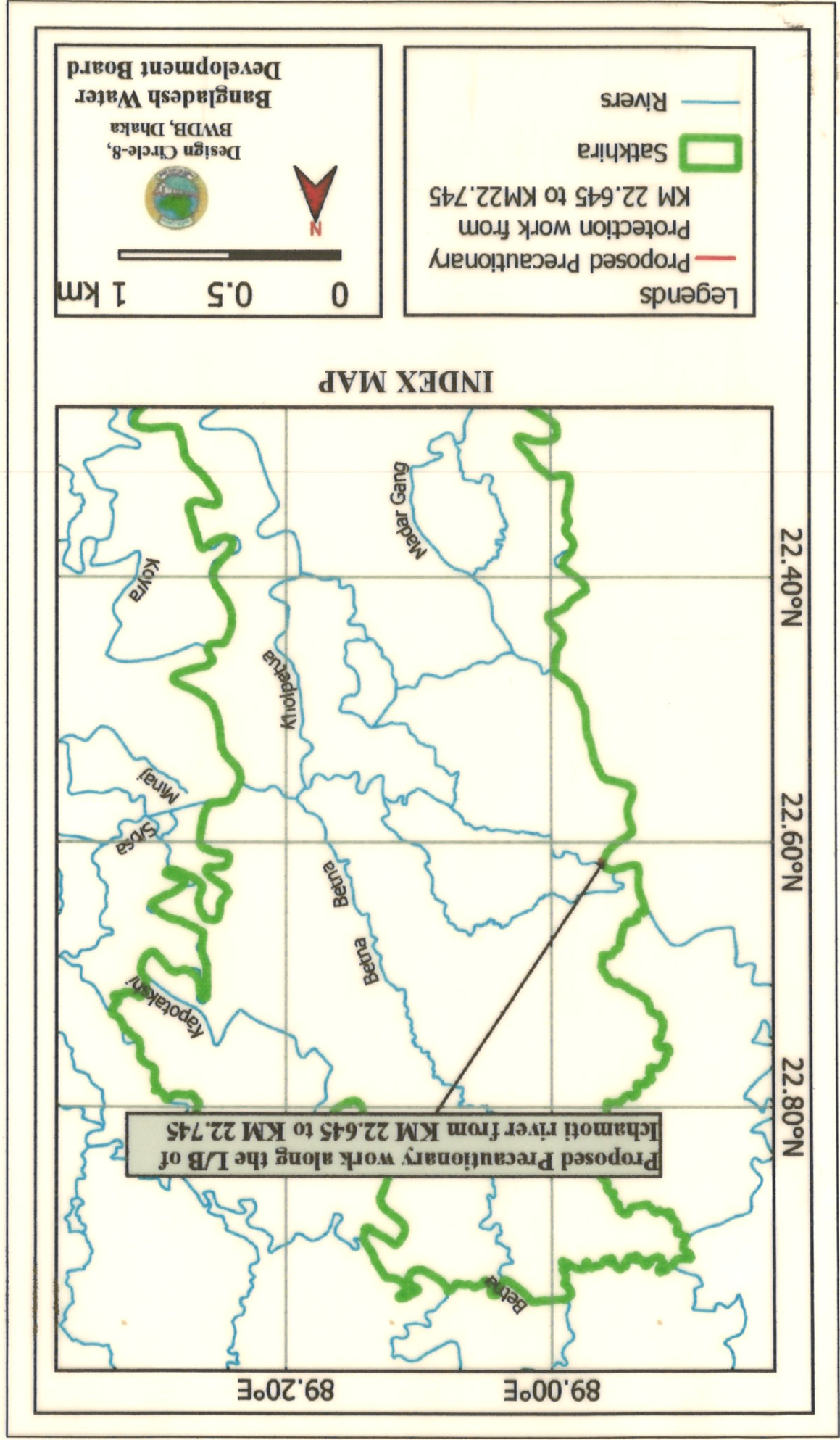
Bangladesh Water Development Board



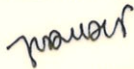

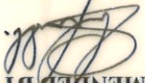
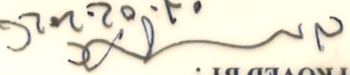
Design of Precautinary Protective Work along the L/B of Ichamoti River
from KM 22.645 to KM 22.745; Total= 0.100 Km at Bhatsala in Polder No.:3;
Upazila:Debhata, District: Satkhira under Satkhira O&M Division-1, BWDB, Satkhira.

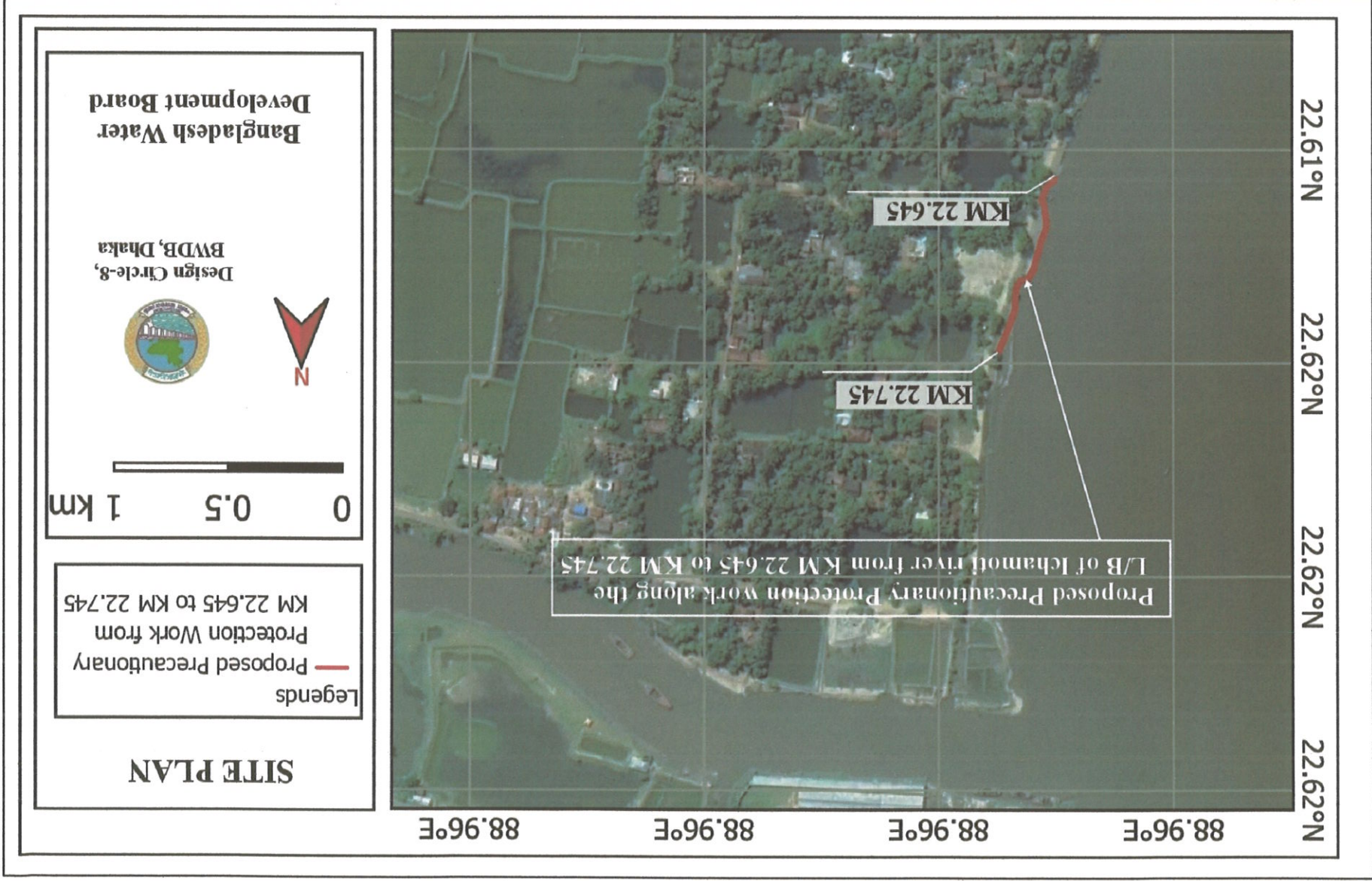
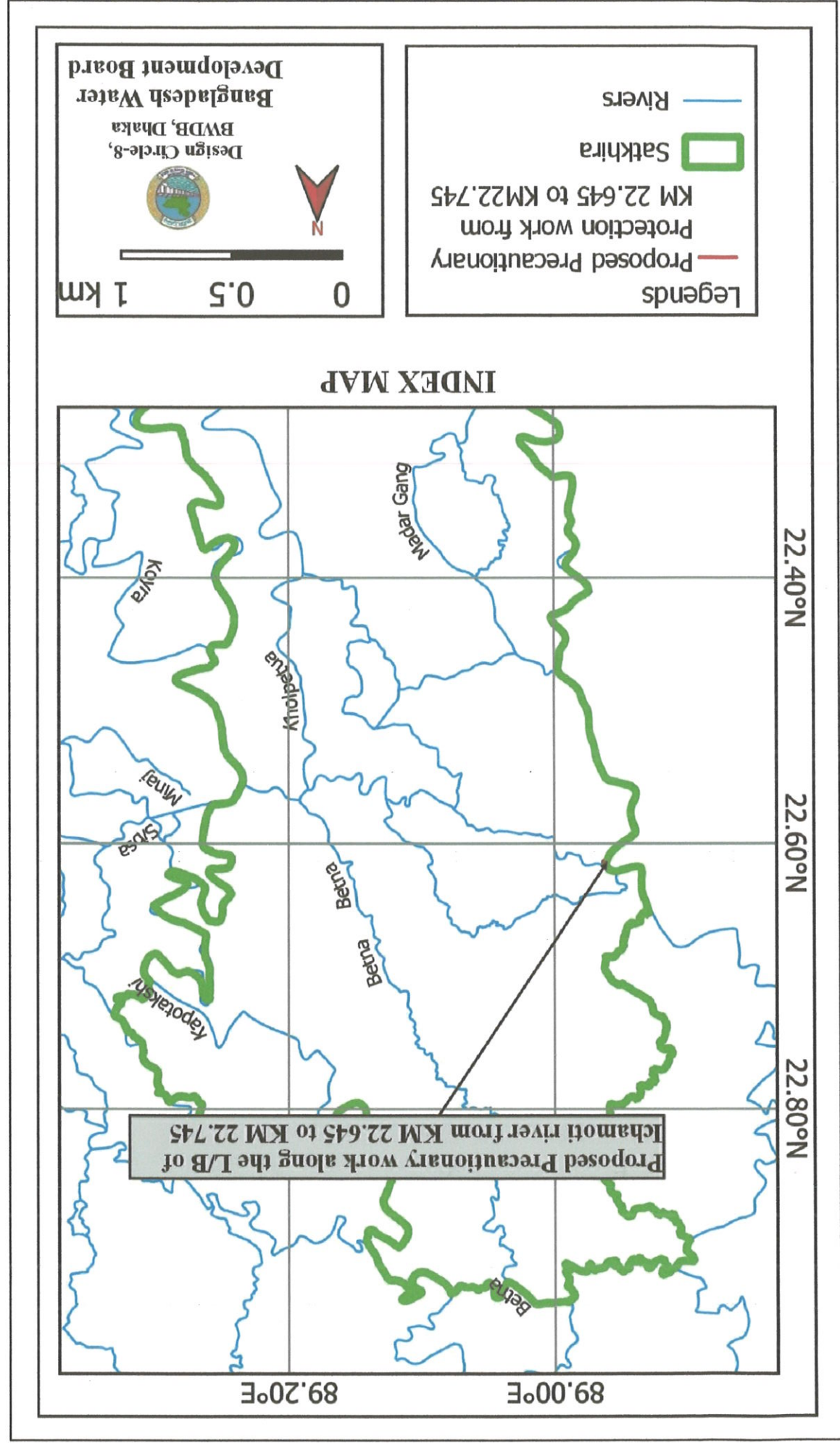
Satkhira O&M Division-1

Designed by: Design Circle-8, BWDB, Dhaka.
February, 2023

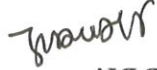
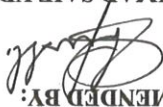




Site Plan

<p>BANGLADESH WATER DEVELOPMENT BOARD</p> <p>OFFICE OF THE SUPERINTENDING ENGINEER</p> <p>DESIGN CIRCLE-8</p>		<p>Design of Precautionary Protective Work along the L/B of Ichamoti River from KM 22.645 to KM 22.745; Total = 0.100 Km at Bhatsala in Polder No.;3; Upazila:Debhata, District: Satkhira under Satkhira O&M Division-1, BWDB, Satkhira.</p>	
<p>INDEX MAP & SITE PLAN</p>		<p>DESIGNED BY:  NISHAT NYLA ZAMAN), AE</p> <p>CHECKED BY:  (ABU SAYEED MD MASUM), EE</p>	
<p>RECOMMENDED BY:  (MOHAMMAD SAIF UDDIN), SE</p> <p>APPROVED BY:  (MD. ENAYET ULLAH), CE, DESIGN</p>		<p>DWG NO.: DC-8-0341-01/03</p> <p>DATE: 09-02-2023</p>	



Site Plan

<p>BANGLADESH WATER DEVELOPMENT BOARD</p> <p>OFFICE OF THE SUPERINTENDING ENGINEER</p> <p>DESIGN CIRCLE-8</p>		<p>Design of Precautionary Protective Work along the L/B of Ichamoti River from KM 22.645 to KM 22.745; Total= 0.100 Km at Bhatsala in Polder No.:3; Upazila:Debhata, District: Satkhira under Satkhira O&M Division-1, BWDB, Satkhira.</p>	
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GENERAL NOTES:

1. ALL DIMENSIONS SHOWN IN THE DRAWING ARE IN MILLIMETER AND ALL ELEVATIONS ARE IN METER (PWD) UNLESS OTHERWISE MENTIONED IN THE DRAWING.

2. A SMOOTH TRANSITION TO BE PROVIDED BETWEEN HIGHER ELEVATION TO LOWER ELEVATION.

3. WORK SHALL BE EXECUTED ONLY WHEN WL IS AT OR NEAR WORKING WL SHOWN IN THE DRAWING .

4. EXECUTION OF WORK SHALL BE DONE THROUGH SYSTEMATIC DUMPING PARALLEL TO THE BANK STARTING AT THE RIVER SIDE AND MOVING TOWARD THE BANK.

5. IF THERE EXISTS ANY DITCH / DEPRESSION / POND WITHIN 30.00 m FROM THE RIVER BANK LINE, THIS SHALL BE FILLED, UPTO THE GROUND LEVEL.

6. FULL LENGTH OF WORK (BOTH DUMPING AND PITCHING) MUST BE IMPLEMENTED IN ONE FINANCIAL YEAR AND WORK TO BE STARTED FROM UPSTREAM TOWARDS DOWNSTREAM OF THE PROPOSED WORK.

7. GEO-BAGS IN LAYERS MUST BE DUMPED UNIFORMLY FROM ANCHORED AND PROPERLY POSITIONED DUMPING BOAT/BARGE/PONTON.

8. THIS DRAWING IS FOR PRECAUTIONARY PROTECTION ONLY. IT IS STRONGLY RECOMMENDED TO TAKE STEPS FOR EXECUTION OF PERMANENT PROTECTION WORK AS EARLY AS POSSIBLE.

9. THE WORK SHALL BE EXECUTED AFTER ADMINISTRATIVE AND FINANCIAL APPROVAL FROM THE COMPETENT AUTHORITY.

10. ANY OMISSION / CORRECTION SHALL BE IMMEDIATELY INFORMED TO THE DESIGN CIRCLE-8, BWDB, DHAKA FOR TAKING NECESSARY ACTION.

SPECIAL NOTES:

1. THIS DRAWING HAS BEEN PREPARED AS PER PROPOSAL OF SE, KHULNA VIDE HIS OFFICE MEMO NUMBER:ID-3/889; DATED: 29-01-2023 AND ADDITIONAL DATA RECEIVED OVER MAIL FROM EE, SATKHIRA O&M DIVISION-1,BWDB ON 7-02-2023.

2. AFTER COMPLETION OF THE PROPOSED PROTECTIVE WORK, REGULAR MONITORING DURING MONSOON AND POST-MONSOON PERIOD SHALL BE DONE BY TAKING CROSS-SECTIONS VERY CLOSELY. ANY ABNORMAL DISPLACEMENT / SLIDING OR SCOURING MUST BE RECORDED AND BE REPORTED TO THE COMPETENT AUTHORITY FOR TAKING NECESSARY ACTION. DURING MONITORING THE FOLLOWING INSTRUCTIONS TO BE FOLLOWED:

A) STARTING POINT OF CROSS-SECTION (AT C/S) TO BE SPECIFIED.

B) SECTIONS TO BE TAKEN MINIMUM 20 DAYS INTERVAL DURING MONSOON.

C) SECTIONS TO BE TAKEN AT 100M INTERVALS.

D) SECTIONS (TAKEN IN DIFFERENT TIMES) AT EACH CHAINAGE TO BE SUPERIMPOSED AND TO BE MONITORED BY THE CONCERN FIELD OFFICE.

3. CLOSE TURNING TO BE PROVIDED ON C/S SLOPE AND ON TOP (1m AT C/S) AS SHOWN IN THE DRAWING.

BANGLADESH WATER DEVELOPMENT BOARD	
OFFICE OF THE SUPERINTENDING ENGINEER	
DESIGN CIRCLE-8	
Design of Precautionary Protective Work along the L/B of Ichhamoti River from KM 22.645 to KM 22.745; Total= 0.100 Km at Bhatasala in Polder No.:3; Upazila:Debhata, District: Satkhira under Satkhira O&M Division-1, BWDB, Satkhira.	
Notes	
DESIGNED BY: (NISHAT NYLA ZAMAN), AE	CHECKED BY: (ABU SAYEED MD MASUM), EE
RECOMMENDED BY: (MOHAMMAD SAIF UDDIN), SE	APPROVED BY: (MD. ENAYET ULLAH), CE, DESIGN
DWG NO.: DC-8-0341-02/03	
DATE: 09-02-2023	

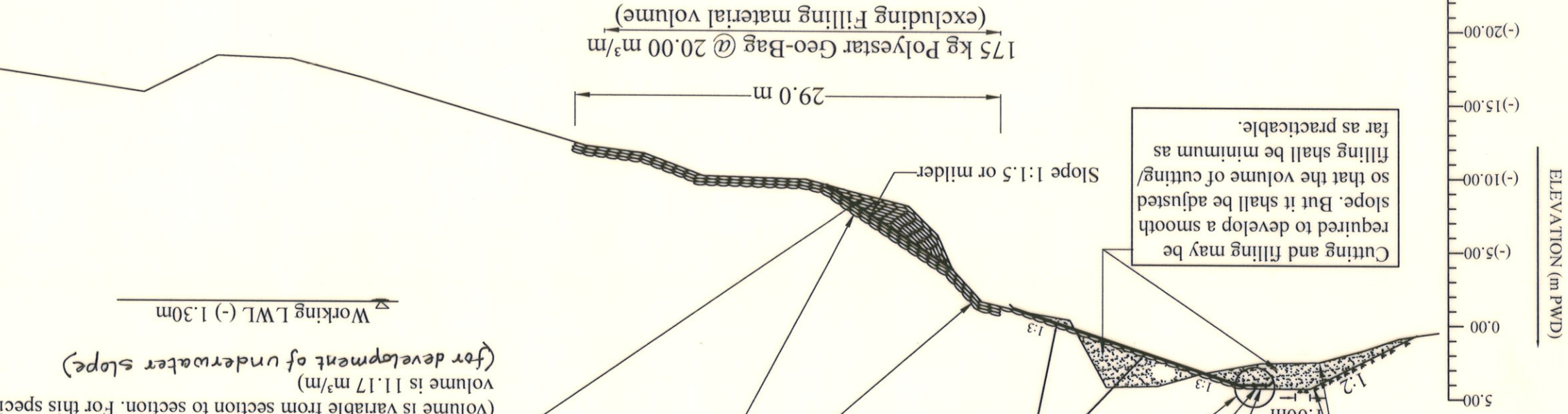
NOTES FOR UNDERWATER SLOPE DEVELOPMENT BY
POLYESTER GEO BAG:

1. FILLING MATERIAL (SAND FILLED POLYESTER GEO BAG) TO BE PROVIDED TO DEVELOP AN UNDERWATER SLOPE OF 1:1.5 OR MILDER.
2. VOLUME OF UNDERWATER FILLING MAY BE VARIABLE FROM SECTION TO SECTION. BEFORE EXECUTION OF WORK CLOSE CROSS SECTION SHALL BE TAKEN (NOT EXCEEDING 20M INTERVAL) AND FILLING MATERIAL TO BE PROVIDED AS PER THIS CROSS SECTION TO DEVELOP AN UNDERWATER SLOPE 1:1.5 OR MILDER.
3. DUMPING VOLUME TO BE PROVIDED AFTER DEVELOPING A STABLE UNDERWATER SLOPE AS PER PREVIOUS NOTE NUMBER 1 & 2.
4. WHERE UNDERWATER SLOPE IS 1:1.5 OR MILDER, FILLING MATERIAL NEED NOT TO BE PROVIDED.

1-layer sand (locally available) filled 175kg polyester geobag (15% overlapping) placing over geo-textile (thickness>=3.00mm) as shown in the drawing.

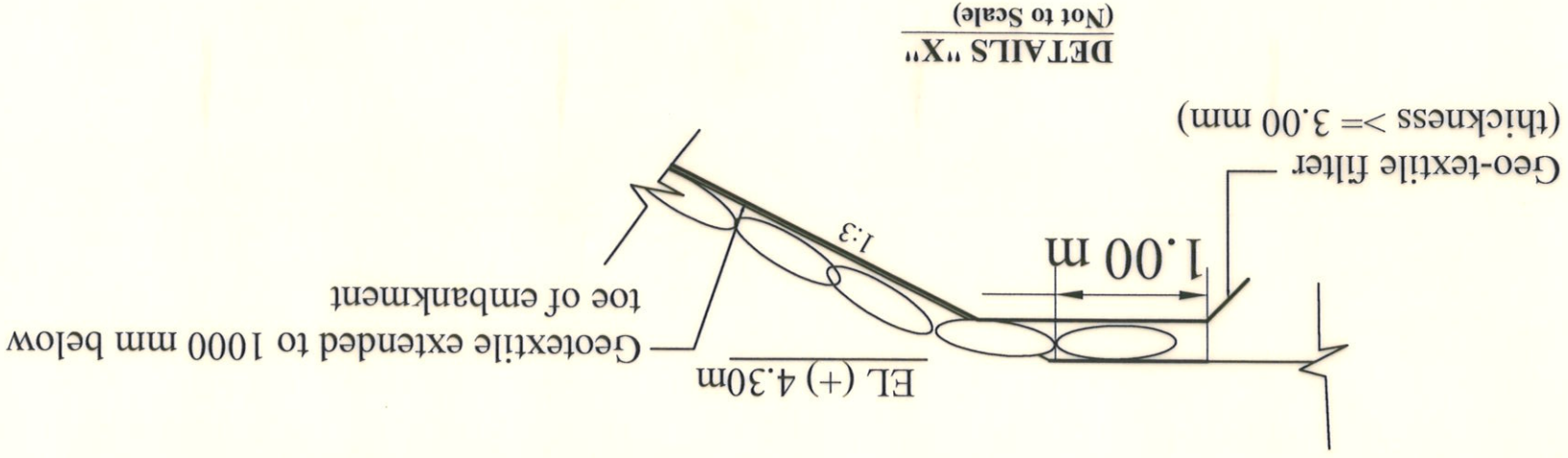
Longer Direction of Geo Bag
Existing Slope (but not steeper than 1:3)
Slope 1:1.5 or milder
175 Kg Sand (locally available) Filled Geo-bag (polyester) to be dumped below working LWL @ 20.00 m³/m as shown in the drawing. (minimum 3-Layers)

to be filled by 250kg Sand (locally available) Filled Polyester geo bag (volume is variable from section to section. For this specific section volume is 11.17 m³/m)
(for development of underwater slope)



EXISTING R.L. (m)	DISTANCE IN (m)
2.50	0.00
2.60	4.00
3.30	8.00
4.17	11.00
4.25	14.50
(-)0.30	17.00
(-)0.80	20.00
(-)1.50	23.00
(-)3.70	25.00
(-)6.00	26.00
(-)8.00	28.00
(-)9.00	32.00
(-)9.80	35.00
(-)10.00	42.00
(-)11.50	46.00
(-)12.00	50.00
(-)13.50	55.00
(-)15.00	60.00
(-)16.50	65.00
(-)17.80	70.00
(-)18.00	75.00
(-)15.50	80.00
(-)17.00	90.00

SECTION AT KM 22.695
TYPICAL SECTION OF PRECAUTIONARY WORK
(LIMIT OF WORK= KM 22.645 TO KM 22.745)



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TYPICAL SECTION AT KM 22.695					
DESIGNED BY:		CHECKED BY:		DATE: 09-02-2023	
(NISHAT NYLA ZAMAN), AE		(ABU SAYEED MD MASUM), EE			
RECOMMENDED BY:		APPROVED BY:		DWG NO.: DC-8-0341-03/03	
(MOHAMMAD SAIF UDDIN), SE		(MD. ENAYET ULLAH), CE, DESIGN			