

Bangladesh Water Development Board

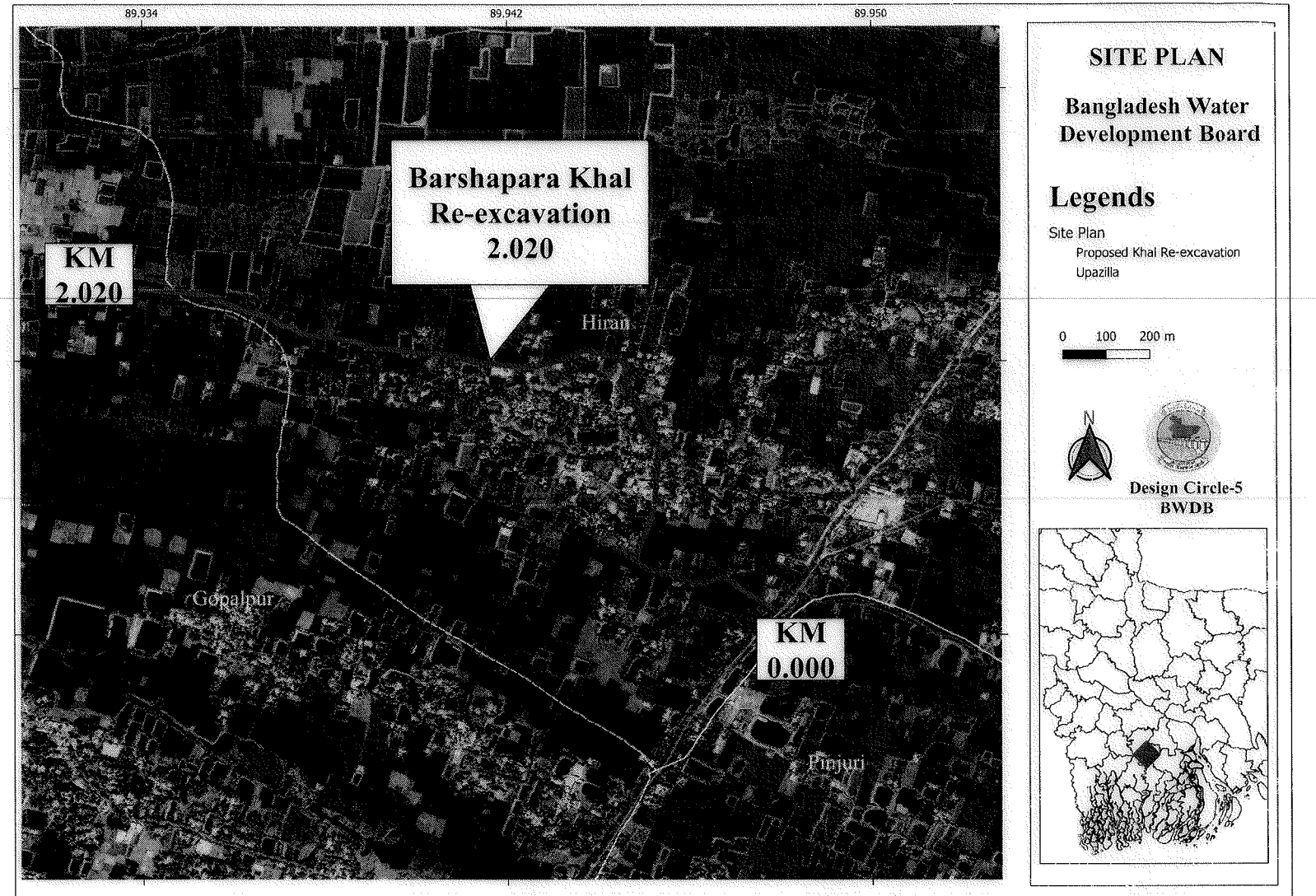
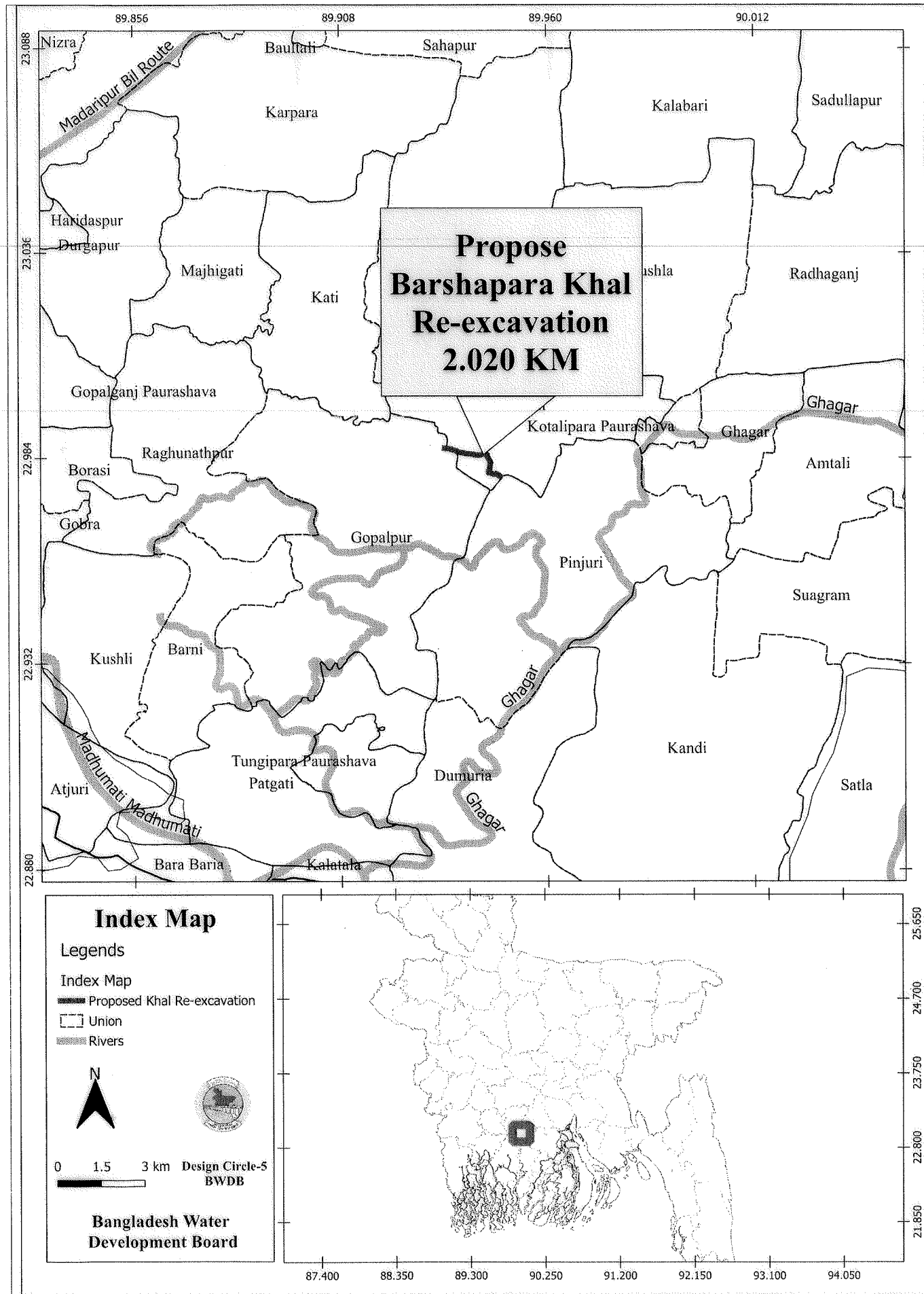
CRISP-WRM

Re-excavation of Barshapara Khal from km. 0.000 to km. 2.020 in polder -2 in c/w Tarail-Pachuria
Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025

SMO, IDWRM-KT

Designed by: Design Circle-5, BWDB, Dhaka

February, 2025



Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Barshapara Khal from km. 0.000 to km. 2.020 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025

INDEX MAP & SITE MAP FOR BARSHA PARA KHAL

DESIGNED BY:
(Signature)
(MD. MOSTAFA KAMAL), AE

APPROVED BY:
(Signature)
04.02.25

CHECKED AND RECOMMENDED BY:
(Signature)
(MD. KAMRUL HASAN), EE

(JAKARIA PERVEZ), SE

Date: 04/02/2025

Drawing No: DC5-5771-01/14

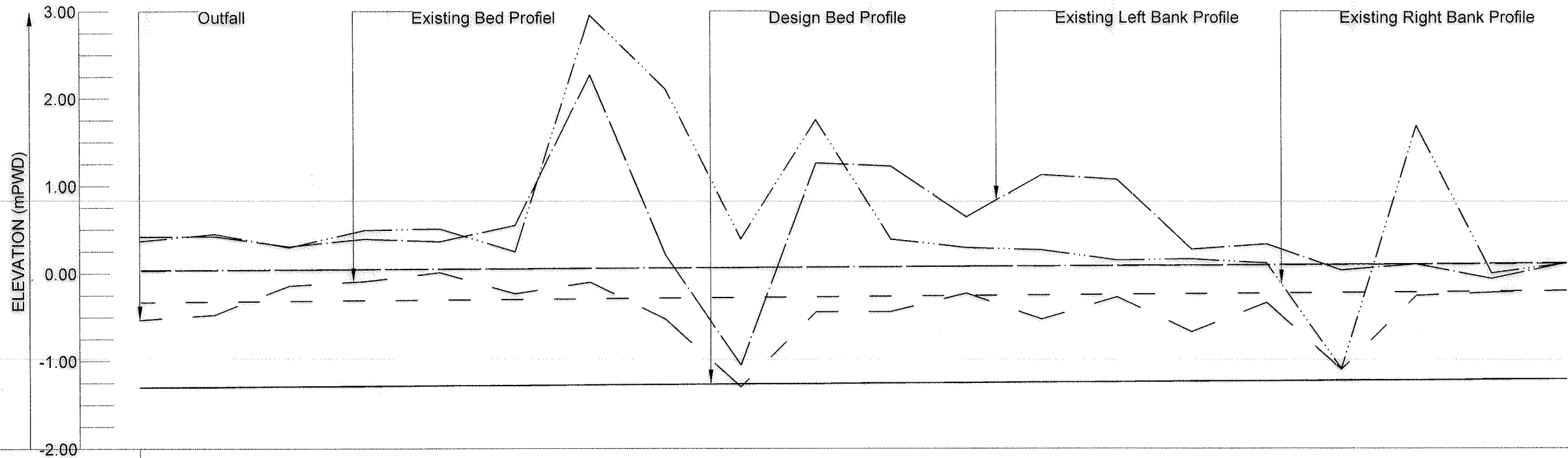
Adminstrative Notes. :

1. FOR ANY ERROR, OMISSION OR CONFUSION PLEASE REFER TO THIS OFFICE AS QUICK AS POSSIBLE FOR FURTHER NECESSARY ACTION
2. WORK SHALL BE EXECUTED AFTER ADMINISTRATIVE AND FINANCIAL APPROVAL AND TECHNICAL SANCTION FROM THE COMPETENT AUTHORITY AND WITHIN THE DPP / BUDGET PROVISION.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN MILLIMETER AND METER(PWD) RESPECTIVELY UNLESS OTHERWISE MENTIONED IN THE DRAWING.
4. ALL MATERIALS AND WORK MUST CONFIRM WITH BWDB TECHNICAL SPECIFICATION.
5. NECESSARY LAND (IF REQUIRED) SHALL BE ARRANGED BY THE FIELD OFFICE FOR RE-EXCAVATION & CONSTRUCTION OF DYKE (IF REQUIRED).
6. THE RE-EXCAVATION OF THE KHAL SHALL START FROM DOWNSTREAM SIDE.
7. A SMOOTH TRANSITION SHALL BE PROVIDED BETWEEN THE EXCAVATED SECTION OF THE KHAL AND THE EXISTING SECTION.
8. A SMOOTH TRANSITION 1:100 SHALL BE PROVIDED AT THE POINT WHERE DESIGN BED WIDTH OR BED LEVEL CHANGES.
9. A SMOOTH TRANSITION AT A SLOPE OF 1:100 SHALL BE KEPT BETWEEN APRON LEVEL OF CONNECTING STRUCTURE (IF ANY) TO DESIGN BED LEVEL OF KHAL.
10. THE RE-EXCAVATION WORK SHALL BE DONE IN THE DRY SEASON WHEN WATER LEVEL IS AT OR NEAR LOW WATER LEVEL
11. NO FILLING SHALL BE DONE WHERE THE EXISTING BED LEVEL OF THE KHAL IS LOWER THAN THE DESIGN BED LEVEL AND EXISTING SIDE SLOPE IS FLATTER THAN DESIGN SECTION.
12. ANY OUTFALL/OFFTAKE RIVER/KHAL WHICH IS CONNECTED WITH THE PROPOSED KHAL SHALL BE KEPT OPEN.
13. TYPICAL DESIGN SECTIONS ARE PROVIDED IN THIS DESIGN FOR RE-EXCAVATION. CROSS SECTIONS AT AN INTERVAL NOT MORE THAN 150.00M TO BE TAKEN BY THE FIELD OFFICE FOR THE ESTIMATION OF ACTUAL VOLUME OF EARTH CUTTING.
- 14.EXCAVATED EARTH TO BE COLLECTED FROM RIVER CAREFULLY CONSIDERING NO ADVERSE EFFECT ON CHANNEL FLOW AND BANK ERROSION.
15. ANY PROPOSED BOX CULVERT /BRIDGE OVER THIS KHAL WILL BE DESIGNED CONSIDERING DESIGN SECTIONS OF THIS KHAL

SPECIAL NOTES :




1. THIS REVISED DRAWING HAS BEEN PREPARED AS PER PROPOSAL AND DESIGN DATA SUBMITTED BY PD,CRISP-WRM HIS OFFICE MEMO NO-PMO/190; DATE: 11/11/2024
2. THIS RE-REEXCAVATION WORK HAS ALSO BEEN DESIGNED CONSIDERING THE WATER RESERVOIR AS WELL AS FOR IRRIGATION PURPOSE.
3. IF THE EXISTING BED LEVEL OF THE OUTFALL (RIVER / KHAL) IS HIGHER THAN DESIGN BED LEVEL OF THIS KHAL, RE-EXCAVATION OF THIS KHAL MUST BE DONE IN PARALLEL/ AFTER THE RE-EXCAVATION OF ITS OUTFALL RIVER / KHAL AS PER APPROVED DESIGN.
4. IF THERE EXISTS ANY STRUCTURE (REGULATOR, BOX CULVERT ETC.) OTHER THAN BRIDGE WITHIN THE PROPOSED LENGTH OF THE KHAL, RE-EXCAVATION WORK IS PROHIBITED THROUGHTOUT THE LENGTH OF THAT STRUCTURE.
5. DESIGN BED LEVEL OF THE KHAL SHALL NOT BE BELOW THE FOUNDATION TOP LEVEL OF THE EXISTING STRUCTURES (IF ANY) IN THE KHAL. IF THE DESIGN BED LEVEL IS BELOW THE FOUNDATION TOP LEVEL THEN THE DIFFERENCE BETWEEN THESE LEVELS SHALL BE MATCHED IN A SLOPE 1:100, OR A DISTANCE OF 100 M, WHICHEVER IS HEIGHER (U/S AND D/S OF THE STRUCTURE), (OR AS SHOWN IN THE DRAWING).
6. DESIGN BED LEVEL & BED WIDTH OF THIS KHAL HAVE BEEN FIXED CONSIDERING THE BED LEVEL & BED WIDTH OF EXISTING KHAL/ FLOOR LEVEL OF EXISTING HYDRAULIC STRUCTURE.
7. ALL SAFETY PRECAUTION MUST BE TAKEN DURING EXECUTION OF WORK.

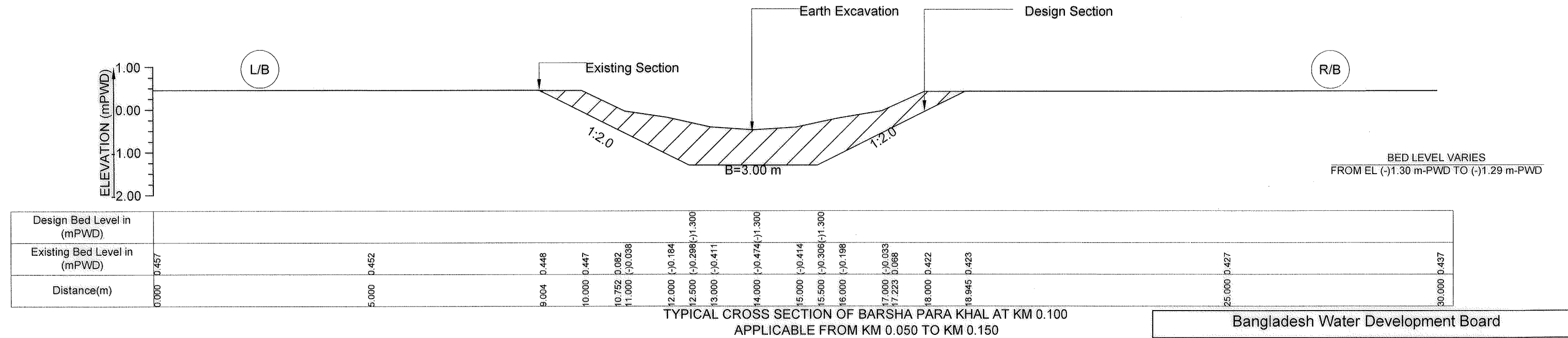
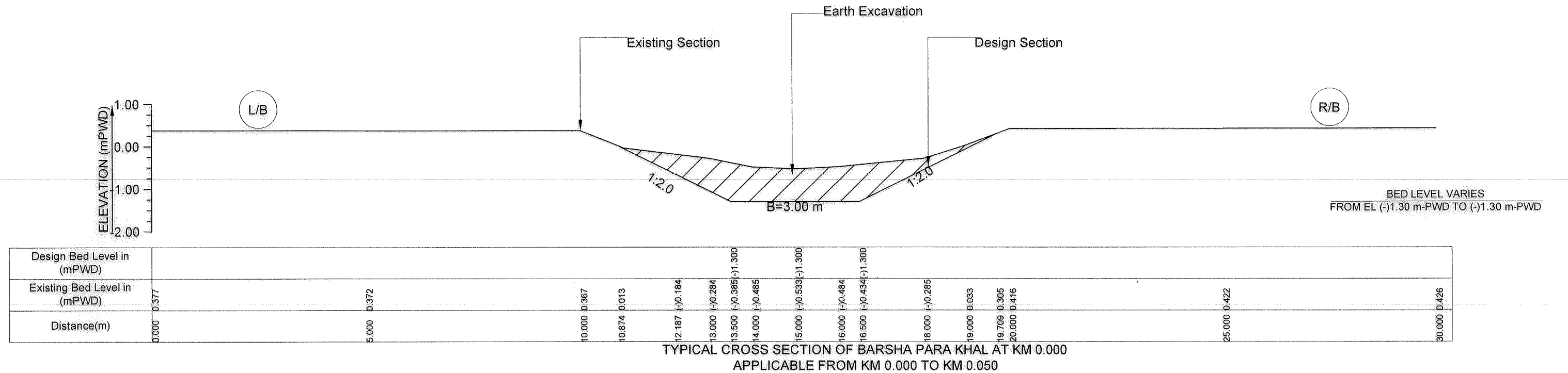
Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Barshapara Khal from km. 0.000 to km. 2.020 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
NOTES FOR BARSHA PARA KHAL	
DESIGNED BY:  (MD.MOSTAFA KAMAL),AE	APPROVED BY:  04.02.25 (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5771-02/14



-2.00																				
Design Bed Width(m)																				
Design Bed Level (mPWD)	(-)1.300		(-)1.290		(-)1.280		(-)1.270		(-)1.260		(-)1.250		(-)1.240		(-)1.230		(-)1.220		(-)1.210	
Existing Bed Level (mPWD)	(-)0.536	(-)0.474	(-)0.144	(-)0.094	0.008	(-)0.232	(-)0.101	(-)0.526	(-)1.297	(-)0.441	(-)0.439	(-)0.229	(-)0.273	(-)0.670	(-)0.337	(-)1.101	(-)0.257	(-)0.222	(-)0.202	
Existing Left Bank Level (mPWD)	0.665	0.447	0.296	0.491	0.508	0.248	2.954	2.107	0.391	1.754	0.386	0.291	0.264	0.147	0.161	0.113	(-)1.091	1.683	0.108	
Existing Right Bank Level (mPWD)	0.636	0.422	0.306	0.391	0.363	0.548	2.268	0.207	(-)1.048	1.259	1.221	0.641	1.123	1.067	0.271	0.332	0.034	0.102	0.113	
Distance(Km)	0.000	0.100	0.200	0.300	0.400	0.500	0.600	0.700	0.800	0.900	1.000	1.100	1.200	1.300	1.400	1.500	1.600	1.700	1.800	1.900

LONG SECTION OF BARSHA PARA KHAL APPLICABLE FROM KM 0.000 TO KM 1.900

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LONG SECTION OF BARSHA PARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5771-03/14



Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

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TYPICAL CROSS SECTION OF BARSHA PARA KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

APPROVED BY:

(JAKARIA PERVEZ), SE

Date: 04/02/2025

Drawing No: DC5-5771-04/14

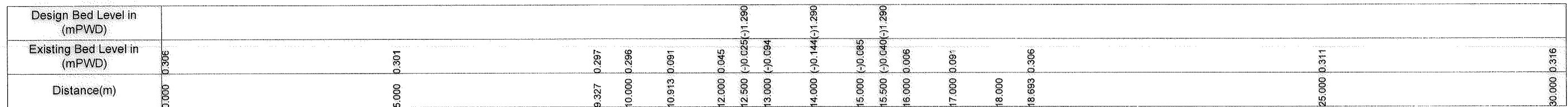



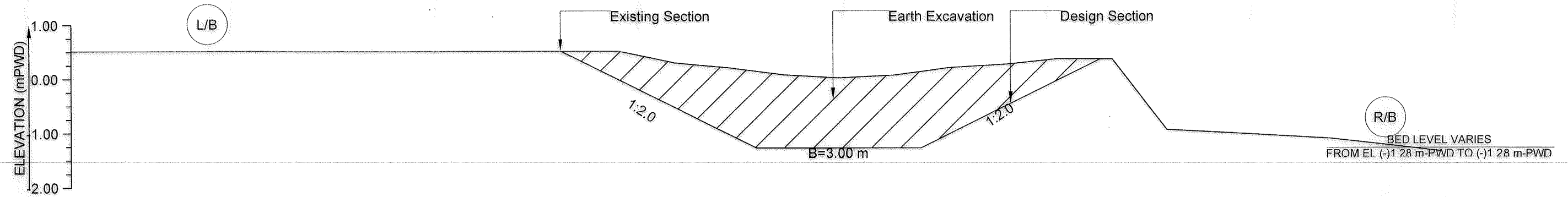


Diagram illustrating the cross-section of a road excavation. The vertical axis represents ELEVATION (mPWD) from 1.00 to -2.00. The horizontal axis shows the Left Boundary (L/B) and Right Boundary (R/B). The diagram shows the Existing Section (hatched area) and the Design Section (unhatched area). The Earth Excavation is the area between the existing and design sections. The slopes are indicated as 1:2.0. The bottom width of the existing section is B=3.00 m. A note at the bottom right states: BED LEVEL FROM EL (-)1.29 m-P.

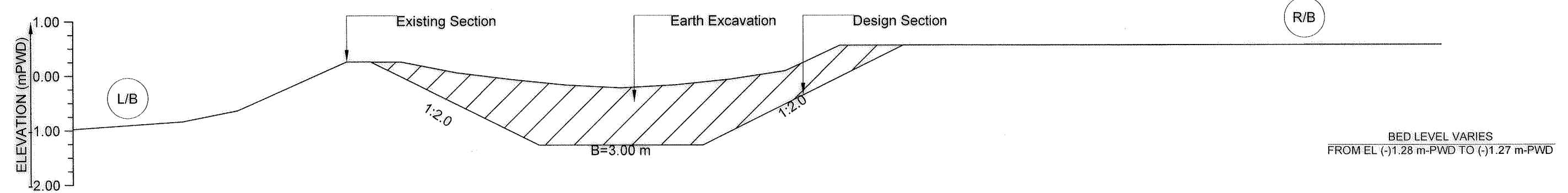
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	
	0.301
	0.496
	0.492
	0.491
	0.347
	0.291
	0.116
	0.035
	-0.046
	-0.094
	-0.045
	0.043
	0.131
	0.281
	0.301
	0.391
	0.392
	0.396
	0.401

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TYPICAL CROSS SECTION OF BARSHA PARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	04.02.25 04.02.25
Date: 04/02/2025	Drawing No: DC5-5771-05/14




Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.513
Distance(m)	0.000
	0.508
	0.504
	0.503
	0.349
	0.288
	0.197
	0.132
	0.067
	0.008
	0.058
	0.128
	0.000
	0.363
	0.359
	0.358
	-0.942
	-1.108
	-1.342

TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 0.400
APPLICABLE FROM KM 0.350 TO KM 0.450



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	-0.977	0.000
	-0.842	0.000
	-0.642	0.000
	0.253	0.000
	0.251	0.438
	0.248	0.000
	0.054	0.969
	-0.077	0.000
	-0.130(-)1.280	0.500
	-0.182	0.000
	-0.232(-)1.280	0.000
	-0.177	1.000
	-0.125(-)1.280	1.500
	-0.073	2.000
	0.077	3.000
	0.232	3.329
	0.548	4.000
	0.549	5.158
	0.553	20.000
	0.558	25.000

TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 0.500
APPLICABLE FROM KM 0.450 TO KM 0.550

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Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
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TYPICAL CROSS SECTION OF BARSHA PARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE 04.02.25	APPROVED BY:  04.02.25 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5771-06/14




TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 0.600
APPLICABLE FROM KM 0.550 TO KM 0.650

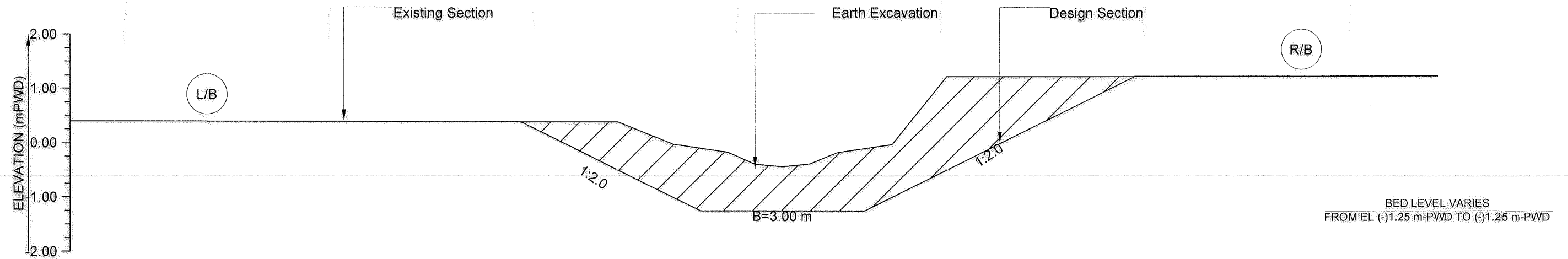


TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 0.700
APPLICABLE FROM KM 0.650 TO KM 0.750

APPROVED BY:

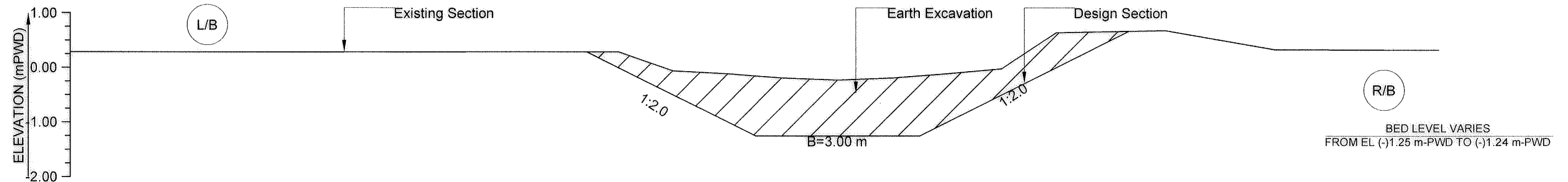

64.02.25

(JAKARIA PERVEZ).SE



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.396	0.000
	0.391	5.000
	0.388	23.224
	0.386	33.862
	0.386	40.000
	-0.024	11.000
	-0.1250	11.500
	-0.175	12.000
	-0.394	12.500
	-0.1250	13.000
	-0.389	13.500
	-0.180	14.000
	-0.1250	14.500
	-0.031	15.000
	1.221	16.000
	1.222	16.975
	1.225	19.451
	1.226	20.000
	1.231	25.000

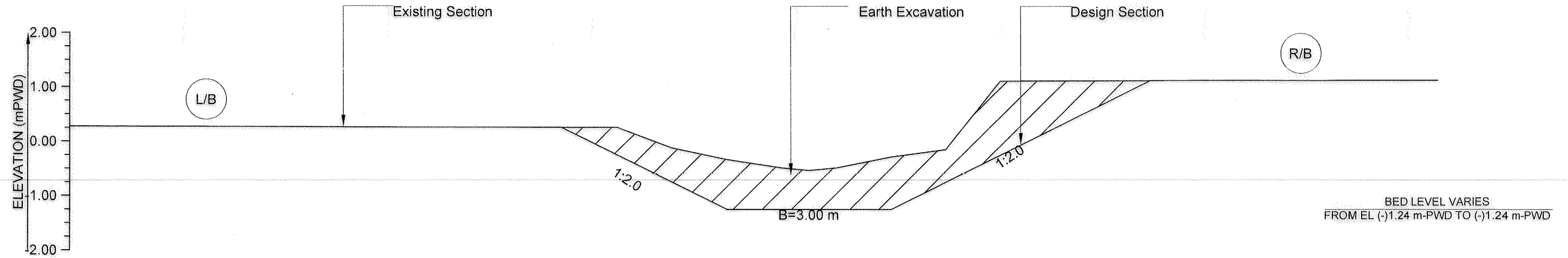
TYPICAL CROSS SECTION OF BARSHA PARA KHÁL AT KM 1.000
APPLICABLE FROM KM 0.950 TO KM 1.050



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.281	0.000
	0.286	0.419
	0.291	10.000
	-0.0045	0.960
	-0.114	12.000
	-0.1250	12.500
	-0.190	13.000
	-0.1250	14.000
	-0.189	15.000
	-0.1250	15.500
	-0.111	16.000
	-0.020	17.000
	0.256	17.417
	0.641	18.000
	0.667	19.334
	0.680	20.000
	0.331	22.000
	0.326	23.000
	0.321	25.000

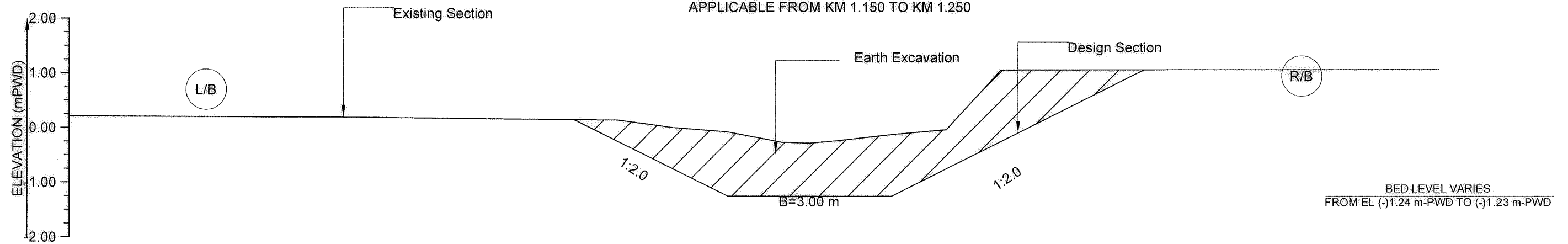
TYPICAL CROSS SECTION OF BARSHA PARA KHÁL AT KM 1.100
APPLICABLE FROM KM 1.050 TO KM 1.150

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Barshapara Khal from km. 0.000 to km. 2.020 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
TYPICAL CROSS SECTION OF BARSHA PARA KHAL	
DESIGNED BY:  04.02.25 (MD. MOSTAFA KAMAL), AE	APPROVED BY:  04.02.25 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5771-09/14



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	0.274	0.269	0.265	0.264	0.076	-0.116	-0.326	-0.478	-0.526	-0.477	-0.277	-0.141	1.123	1.124	1.128	1.129	1.134		
Distance(m)	0.000	5.000	8.990	10.000	10.495	11.000	12.000	13.000	13.500	14.000	15.000	16.000	17.000	17.368	19.737	20.000	25.000		

TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 1.200
APPLICABLE FROM KM 1.150 TO KM 1.250



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	0.207	0.197	0.155	0.147	0.066	0.013	-0.064	-0.258	-0.273	-0.228	-0.113	-0.028	1.067	1.068	1.071	1.072	1.077		
Distance(m)	0.000	5.000	9.210	10.000	10.605	11.000	12.000	13.000	13.500	14.000	15.000	16.000	17.000	17.311	19.623	20.000	25.000		

TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 1.300
APPLICABLE FROM KM 1.250 TO KM 1.350


Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

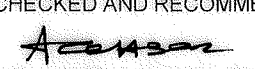
CRISP-WRM

Re-excavation of Barshapara Khal from km. 0.000 to km. 2.020 in polder
-2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under
Specialized Division. BWDB, Gopalganj during the year 2024-2025

TYPICAL CROSS SECTION OF BARSHA PARA KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

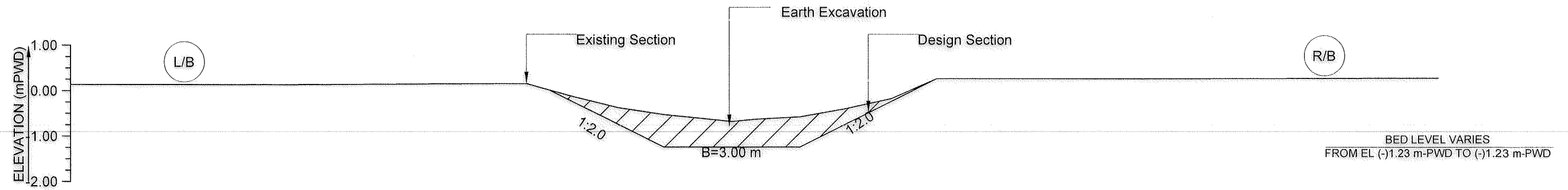
APPROVED BY:

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE


(JAKARIA PERVEZ), SE

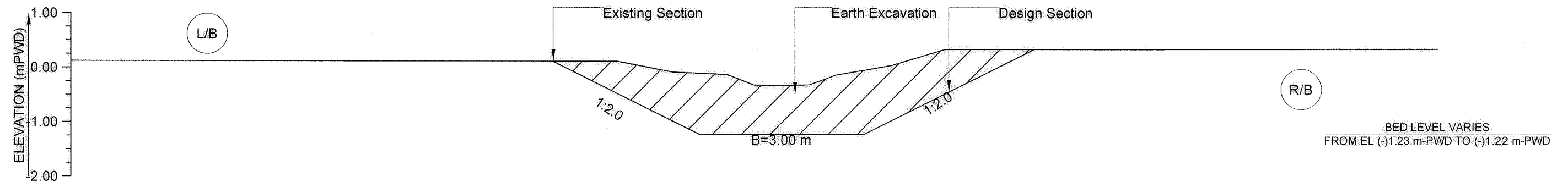
Date: 04/02/2025

Drawing No: DC5-5771-10/14






Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.131	0.000
		5.000
	0.136	10.000
		10.000
	0.161	10.498
	0.021	11.000
	-0.120	11.749
	-0.306	12.000
	-0.369	13.000
	-1.230	14.000
	-0.620	14.500
	-1.230	15.000
	-0.624	16.000
	-1.230	17.000
	-0.389	17.501
	-0.279	18.000
	-0.169	19.000
	0.271	25.000
	0.276	30.000
		0.286

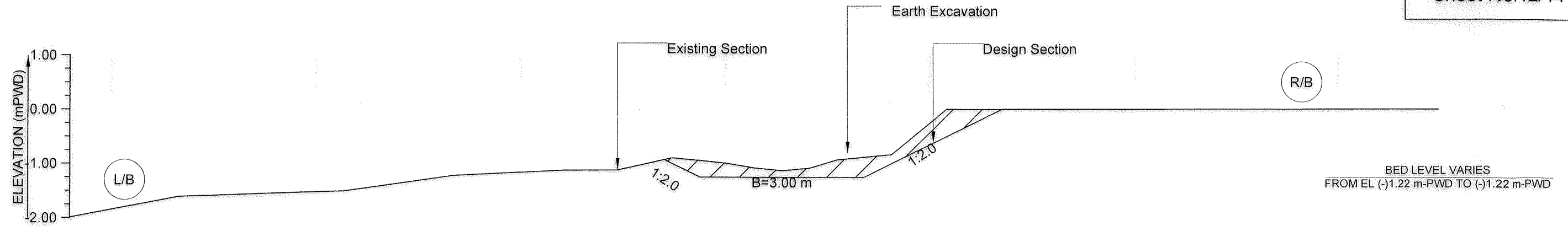
TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 1.400
APPLICABLE FROM KM 1.350 TO KM 1.450



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.123	0.000
		5.000
	0.118	
		8.812
	0.114	
		10.000
	0.113	
	0.156	0.083
		11.000
	-0.082	
	-0.105	-1.230
	-0.128	-12.000
	-0.322	-12.500
	-0.337	-13.000
	-1.230	-13.500
	-0.318	-14.000
	-0.137	-14.500
	-1.230	-15.000
	0.033	
		16.000
	0.332	
		17.625
	0.332	
		20.000
	0.333	
		25.000
	0.338	

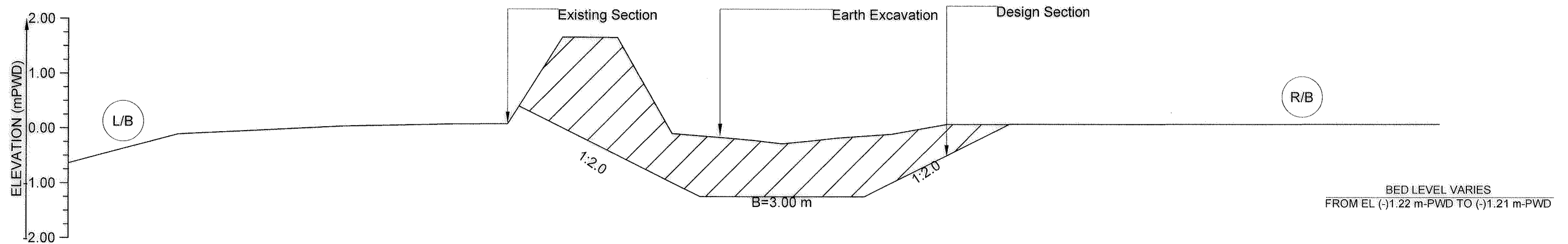
TYPICAL CROSS SECTION OF BARSHA PARA KHĀL AT KM 1.500
APPLICABLE FROM KM 1.450 TO KM 1.550

Bangladesh Water Development Board	
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TYPICAL CROSS SECTION OF BARSHA PARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE 04.02.25	APPROVED BY:  (JAKARIA PERVEZ), SE 04.02.25
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5771-11/14



Design Bed Level in (mPWD)																				
Existing Bed Level in (mPWD)	-1.991	-1.601	-1.491	-1.201	-1.101	-1.091	-0.899	-0.867	-0.865	-0.917	-1.220	-1.220	-1.053	-0.901	-0.854	-0.806	-0.172	0.034	0.035	0.044
Distance(m)	0.000	2.000	5.000	7.000	9.000	10.000	10.858	11.000	11.179	11.500	12.000	12.500	13.000	13.500	14.000	14.500	15.000	15.755	16.000	20.000

TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 1.600
APPLICABLE FROM KM 1.550 TO KM 1.650



Design Bed Level in (mPWD)																				
Existing Bed Level in (mPWD)	-0.637	-0.102	0.053	0.096	0.103	0.428	1.688	1.684	1.683	-0.072	-0.112	-0.152	-0.196	-0.257	-0.207	-0.117	-0.082	0.070	0.102	0.104
Distance(m)	0.000	2.000	5.000	7.000	8.000	8.205	9.000	9.852	10.000	11.000	11.500	12.000	12.500	13.000	13.500	14.000	14.500	15.000	15.824	16.000

TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 1.700
APPLICABLE FROM KM 1.650 TO KM 1.750

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TYPICAL CROSS SECTION OF BARSHA PARA KHAL

DESIGNED BY:
(Signature)
(MD. MOSTAFA KAMAL), AE

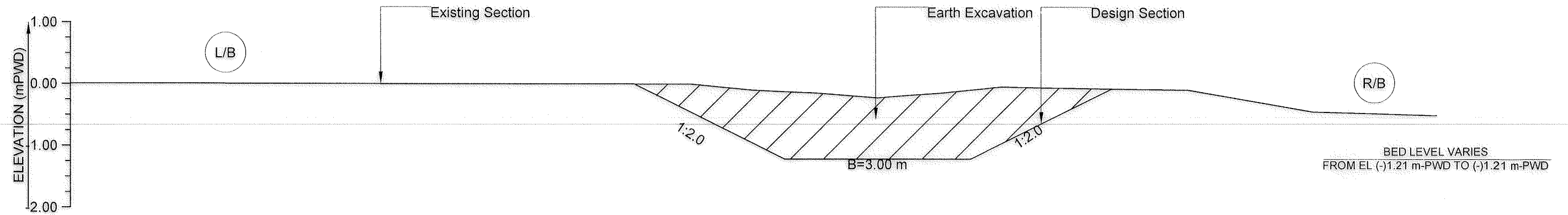
APPROVED BY:

CHECKED AND RECOMMENDED BY:
(Signature)
(MD. KAMRUL HASAN), EE

(Signature)
04.02.25
(JAKARIA PERVEZ), SE

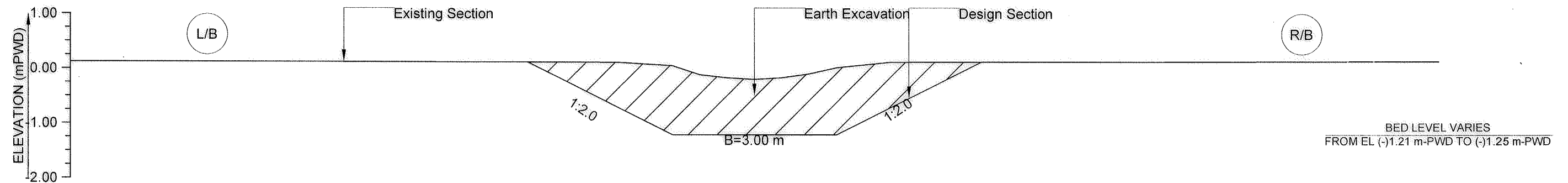
Date: 04/02/2025

Drawing No: DC5-5771-12/14






Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.008
Distance(m)	0.000
	0.003
	-0.001
	-0.002
	-0.003
	-0.101
	-0.122(-)1.210
	-0.143
	-0.184
	-0.222(-)1.210
	-0.183
	-0.146
	-0.097(-)1.210
	-0.046
	-0.059
	-0.066
	-0.077
	-0.095
	-0.444
	-0.505

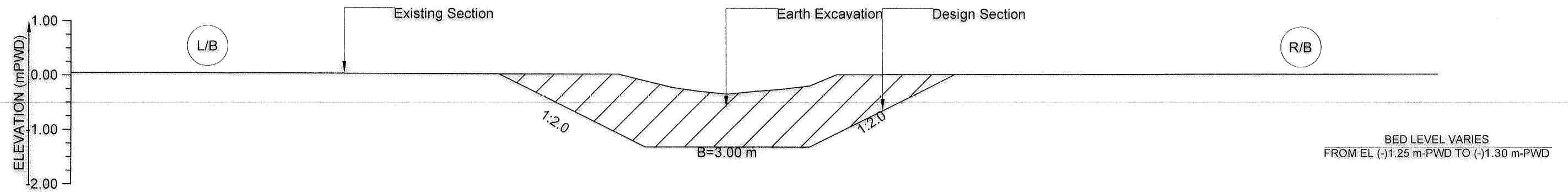
TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 1.800
APPLICABLE FROM KM 1.750 TO KM 1.850



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.123	0.000
	0.118	0.000
	0.111	0.357
	0.109	0.679
	0.108	1.000
	0.047	1.000
	0.117	1.500
	0.172	2.000
	0.202	2.500
	0.179	3.000
	0.102	3.500
	0.012	4.000
	0.113	5.000
	0.113	5.325
	0.115	6.649
		10.000
		15.000




TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 1.900
APPLICABLE FROM KM 1.850 TO KM 1.951

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Barshapara Khal from km. 0.000 to km. 2.020 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
TYPICAL CROSS SECTION OF BARSHA PARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5771-13/14



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.045	0.000
		5.000
	0.040	7.826
	0.037	9.163
	0.036	10.000
	0.035	10.500
	(-)0.088 (-)1.300	11.000
	(-)0.210	11.500
	(-)0.282	12.000
	(-)0.330 (-)1.300	12.500
	(-)0.281	13.000
	(-)0.241	13.500
	(-)0.180 (-)1.300	14.000
	0.030	14.832
	0.031	16.164
	0.032	20.000
		25.000

TYPICAL CROSS SECTION OF BARSHA PARA KHAL AT KM 2.020
APPLICABLE FROM KM 1.951 TO KM 2.020

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Barshapara Khal from km. 0.000 to km. 2.020 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
TYPICAL CROSS SECTION OF BARSHA PARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5771-14/14