

Bangladesh Water Development Board

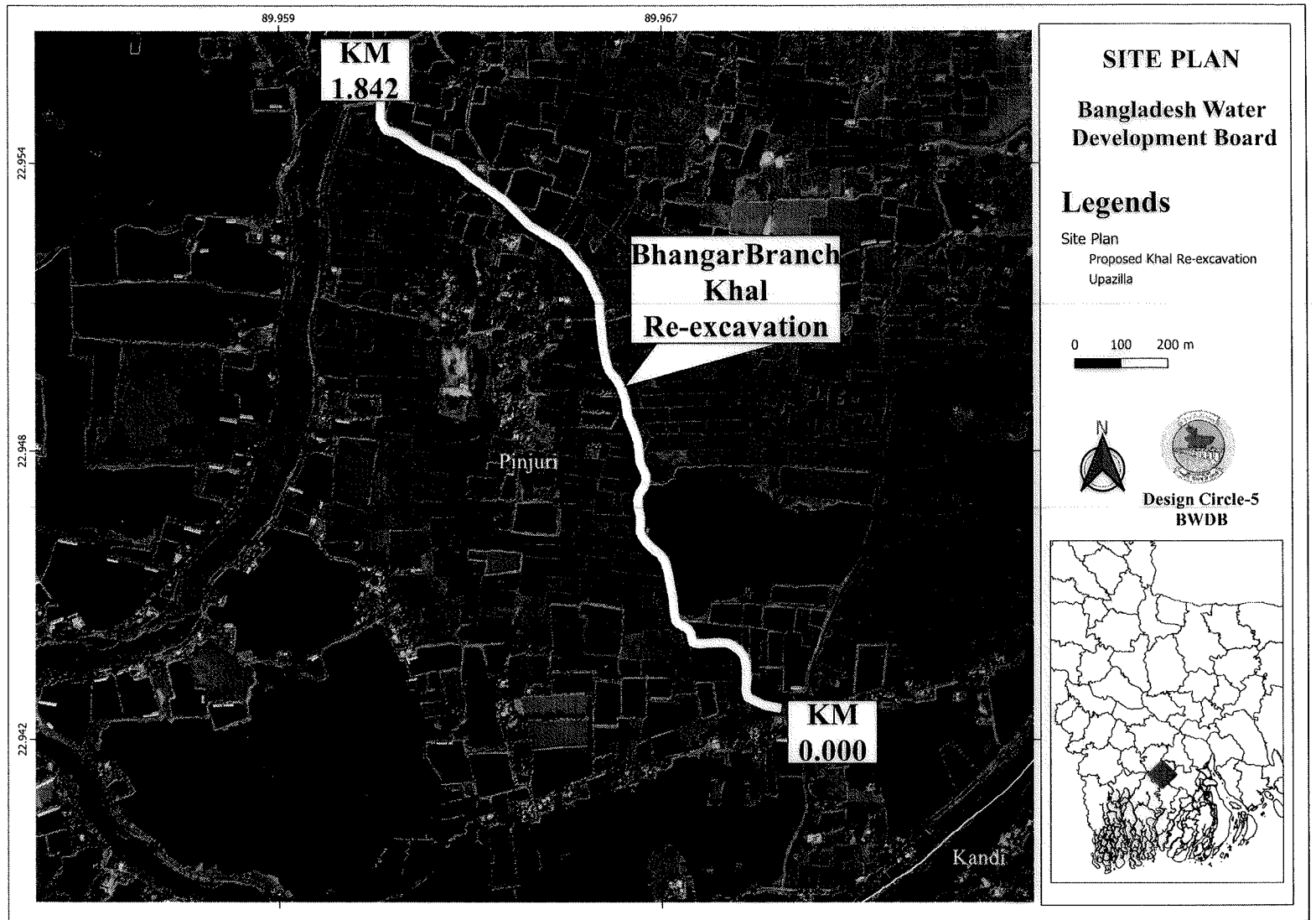
CRISP-WRM




Re-excavation of Bhangar Branch Khal from km. 0.000 to km. 1.842 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	
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INDEX MAP & SITE MAP FOR BHANGAR BRANCH 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: DC5-5787-01/13

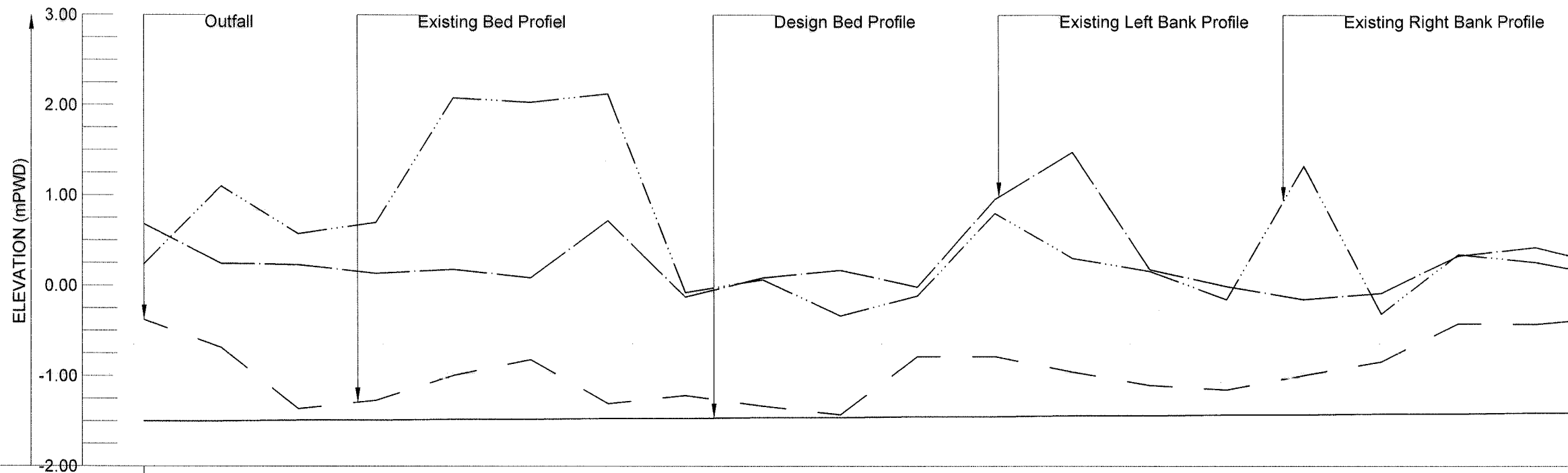
Administrative Notes :

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.

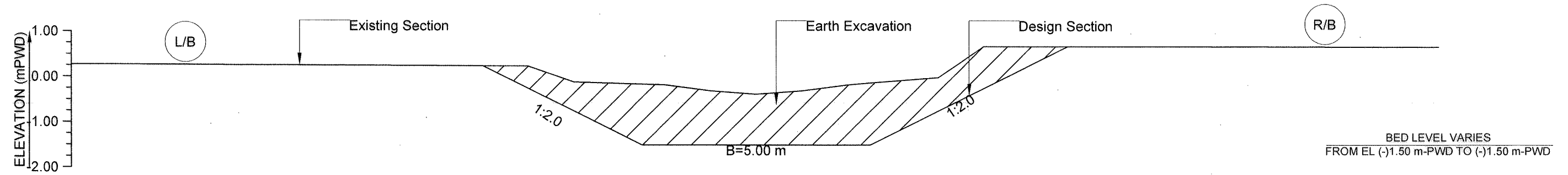
Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Bhangar Branch Khal from km. 0.000 to km. 1.842 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
NOTES FOR BHANGAR BRANCH 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:DC5-5787-02/13



Design Bed Width(m)	2.00																			
Design Bed Level (mPWD)	-1.500																			
Existing Bed Level (mPWD)	(-)0.379	(-)0.687	(-)1.365	(-)1.271	(-)0.995	(-)0.820	(-)1.307	(-)1.217	(-)1.335	(-)1.430	(-)0.785	(-)0.786	(-)0.958	(-)1.104	(-)1.155	(-)0.844	(-)1.420	(-)0.431	(-)0.400	
Existing Left Bank Level (mPWD)	0.239	1.098	0.572	0.697	2.079	2.030	2.122	(-)0.077	0.064	(-)0.336	(-)0.116	0.799	0.301	0.157	(-)0.155	(-)0.315	0.342	0.255	0.185	
Existing Right Bank Level (mPWD)	0.679	0.243	0.229	0.133	0.179	0.085	0.717	(-)0.127		0.169	(-)0.016	0.953	1.476	0.177	(-)0.011	(-)0.086	0.327	0.420	0.330	
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	1.842

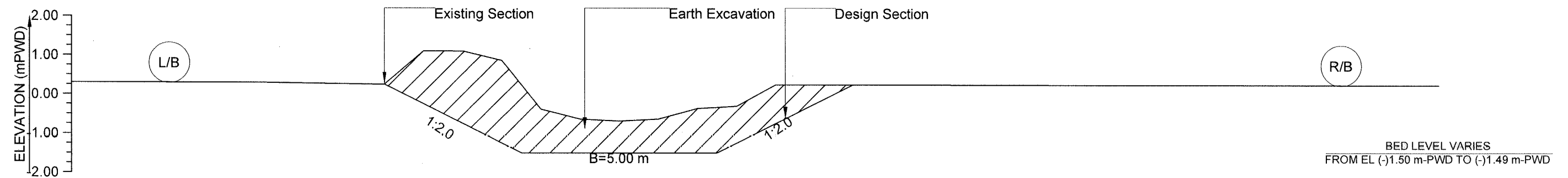
LONG SECTION OF BHANGAR BRANCH KHAL APPLICABLE FROM KM 0.000 TO KM 1.842

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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5787-03/13



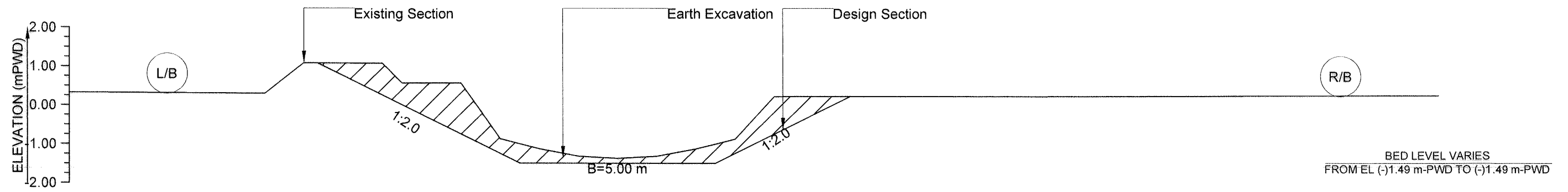
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.268
Distance(m)	0.000
	5.000 0.259
	9.014 0.243
	10.000 0.239
	10.757 (-0.026)
	11.000 (-0.111)
	12.500 (-0.157)(-1.500)
	13.000 (-0.172)
	14.000 (-0.306)
	15.000 (-0.379)(-1.500)
	16.000 (-0.307)
	17.000
	17.500 (-0.132)(-1.500)
	19.000 (-0.011)
	19.677 0.456
	20.000 0.679
	21.854 0.677
	25.000 0.674
	30.000 0.659

TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 0.000
APPLICABLE FROM KM 0.000 TO KM 0.050

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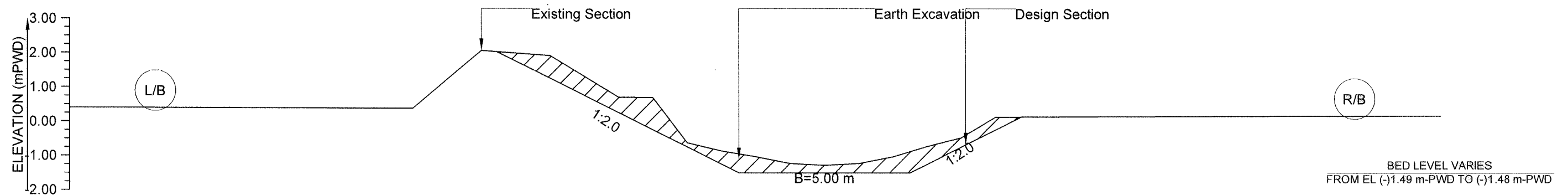
TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 0.100
APPLICABLE FROM KM 0.050 TO KM 0.150

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TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL	
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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5787-04/13






Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.324
Distance(m)	0.000
	0.299
	0.088
	0.086
	0.078
	0.573
	0.573
	0.572
	-0.861
	-1.490
	-1.122
	-1.313
	-1.365
	-1.312
	-1.490
	-1.871
	0.229
	0.229
	0.230
	0.234
	0.239
	0.249

TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 0.200
APPLICABLE FROM KM 0.150 TO KM 0.250



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.399	0.000
	0.388	5.000
	0.378	0.000
	2.069	2.000
	2.035	2.449
	1.919	4.000
	0.723	5.975
	0.697	7.000
	-0.622	8.000
	-0.861	9.000
	-1.490	9.500
	-1.022	10.000
	-1.223	11.000
	-1.490	12.000
	-1.222	13.000
		14.000
	-1.490	14.500
	-0.723	15.000
	-0.471	16.000
	0.133	17.000
	0.137	17.754
	0.148	18.000
	0.174	19.000

TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 0.300
APPLICABLE FROM KM 0.250 TO KM 0.350

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TYPICAL CROSS SECTION OF BHANGAR BRANCH 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: DC5-5787-05/13

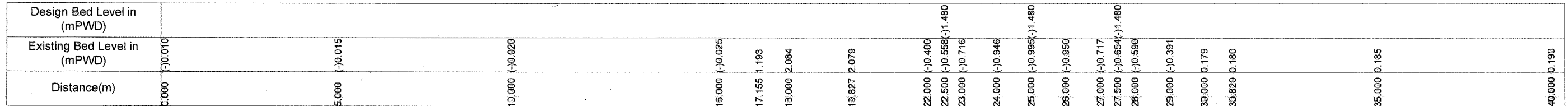





Diagram illustrating a cross-section of a road excavation project. The vertical axis represents ELEVATION (mPWD) from -2.00 to 3.00. The horizontal axis shows the road profile with L/B (Left Bank) and R/B (Right Bank) markers.

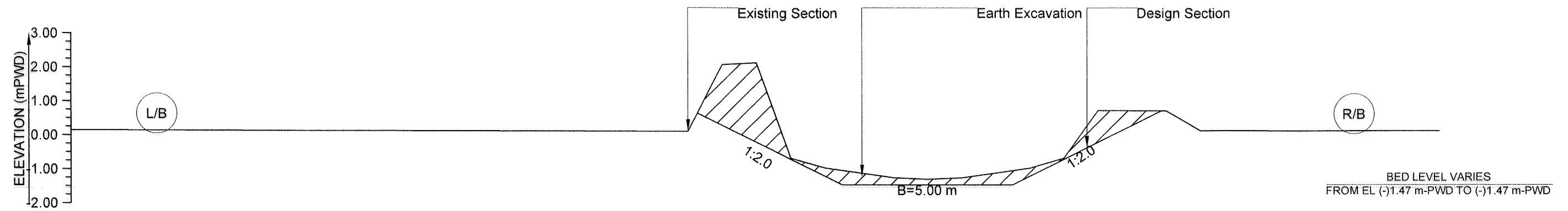
The diagram is divided into three main sections:

- Existing Section:** Shows the current ground profile, which is a trapezoidal embankment with a top width of $B = 5.00 \text{ m}$ and side slopes of $1:2.0$.
- Earth Excavation:** The area below the existing ground line, indicating the required excavation depth.
- Design Section:** Shows the proposed road profile, which is a flat surface at the bottom of the excavation.

A note at the bottom right specifies: **BED LEVEL FROM EL (-) 1.48 m-PV**.

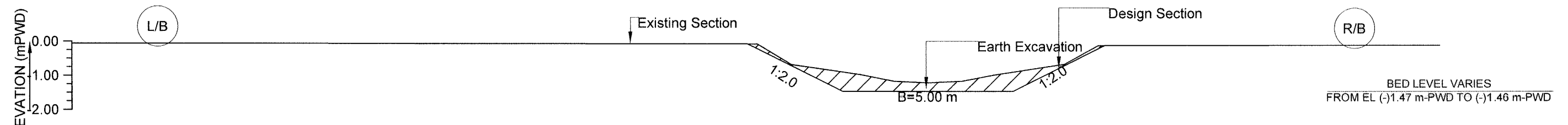
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.014
Distance(m)	0.000
	5.000 0.005
	10.000 0.006
	16.000 0.016
	16.831 0.855
	18.000 2.035
	19.165 2.032
	20.000 2.030
	21.000 (-0.421)
	21.500 (-0.468)(-1.480)
	22.000 (-0.517
	23.000 (-0.795
	24.000 (-0.820)(-1.480
	25.000 (-0.786
	26.000 (-0.516
	26.500 (-0.470)(-1.480
	27.000 (-0.423
	28.000 0.085
	29.609 0.075
	35.000 0.040
	40.000 0.095

Bangladesh Water Development Board	
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TYPICAL CROSS SECTION OF BHANGAR BRANCH 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: DC5-5787-06/13



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.143	0.000
	0.128	5.000
	0.122	10.000
	0.113	15.000
	0.103	18.000
	0.043	18.274
	0.073	19.000
	0.122	20.000
	1.033	20.387
	-0.692	21.000
	-0.978	22.000
	-1.470	22.500
	-1.262	24.000
	-1.470	25.000
	-1.268	26.000
	-1.470	27.500
	-0.979	28.000
	-0.687	29.000
	0.266	29.679
	0.717	30.000
	0.709	31.857
		33.000
	0.118	35.000
	0.112	40.000

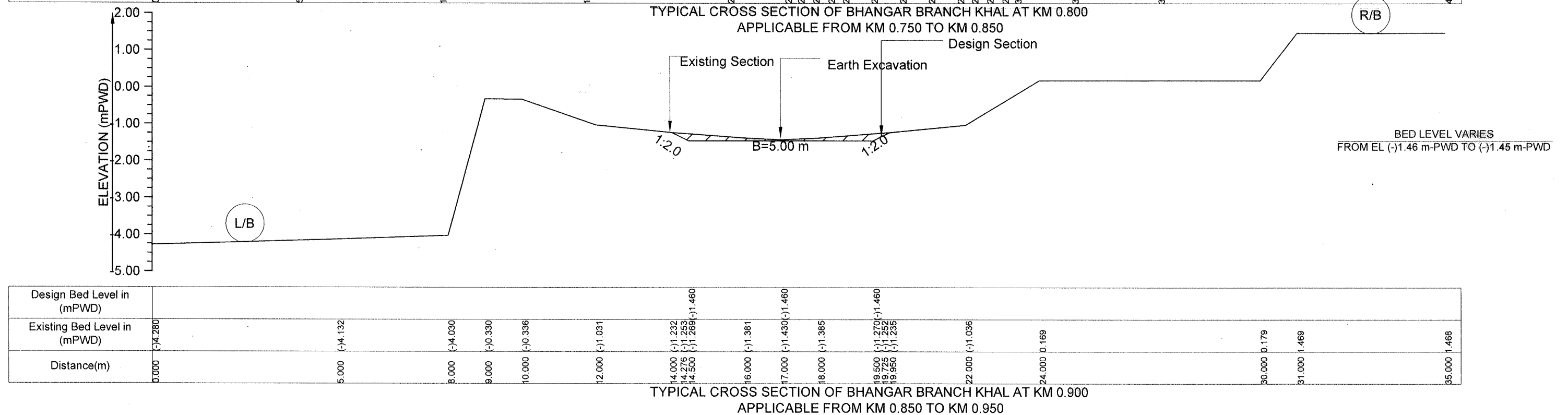
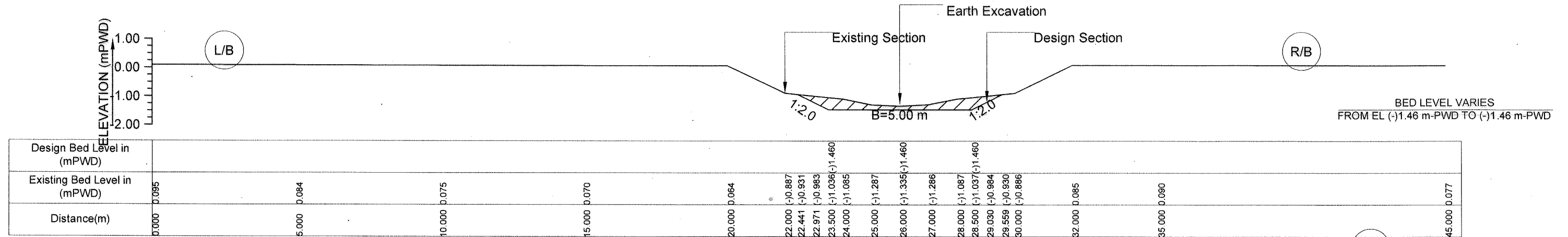
TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 0.600
APPLICABLE FROM KM 0.550 TO KM 0.650



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	(-0.062)	0.000
	(-0.057)	0.000
	(-0.067)	0.000
	(-0.072)	5.000
	(-0.077)	9.713
	(-0.077)	10.000
	(-0.683)	11.000
	(-1.470)	12.500
	(-0.978)	13.000
	(-1.173)	14.000
	(-1.470)	15.000
	(-1.172)	16.000
	(-0.983)	17.000
	(-1.470)	17.500
	(-0.702)	18.843
	(-0.127)	20.000
	(-0.117)	20.000

TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 0.700
APPLICABLE FROM KM 0.650 TO KM 0.750

<p align="center">Bangladesh Water Development Board</p>	
<p align="center">Office of The Superintending Engineer, Design Circle-5</p>	
<p align="center">CRISP-WRM</p>	
<p>Re-excavation of Bhangar Branch Khal from km. 0.000 to km. 1.842 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025</p>	
<p align="center">TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL</p>	
<p>DESIGNED BY:</p>  <p align="right">04.02.25</p> <p>(MD. MOSTAFA KAMAL), AE</p>	<p>APPROVED BY:</p>  <p align="right">04.02.25</p> <p>(JAKARIA PERVEZ), SE</p>
<p>CHECKED AND RECOMMENDED BY:</p>  <p>(MD. KAMRUL HASAN), EE</p>	
<p>Date: 04/02/2025</p>	<p>Drawing No: DC5-5787-07/13</p>



Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

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TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

CHECKED AND RECOMMENDED BY:

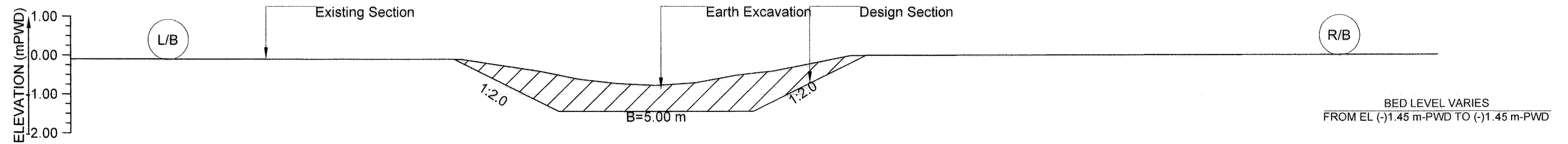
(MD. KAMRUL HASAN), EE

APPROVED BY:

(JAKARIA PERVEZ), SE

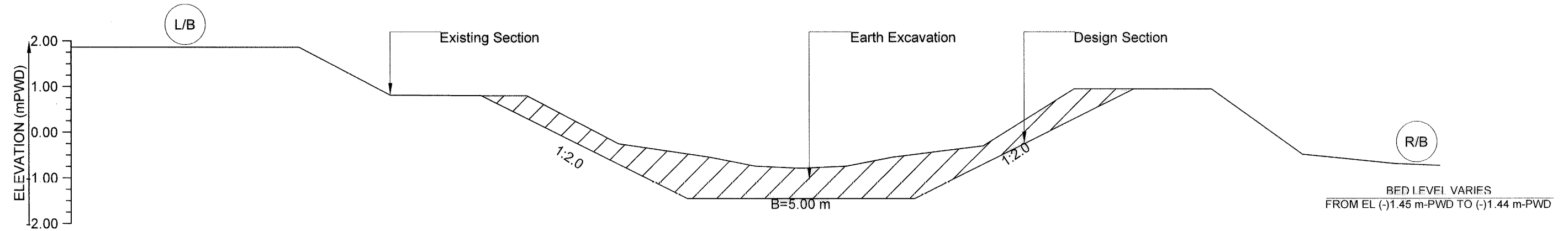
Date: 04/02/2025

Drawing No: DC5-5787-08/13




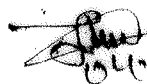
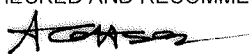
Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	(-0.101)	0.000
		5.000
	(-0.110)	
		8.832
	(-0.116)	
		11.156
	(-0.291)	
		12.030
	(-0.416)	
	(-0.518)	12.530
	(-1.450)	13.030
	(-0.620)	
		14.030
	(-0.735)	
	(-0.785)	15.030
	(-1.450)	
		16.030
	(-0.716)	
		17.030
	(-0.531)	
	(-0.474)	17.530
	(-1.450)	18.030
	(-0.417)	
		18.935
	(-0.230)	
		20.000
	(-0.016)	
	(-0.015)	20.369
		25.000
	(-0.006)	
		30.000
	0.004	
		35.000
	0.015	

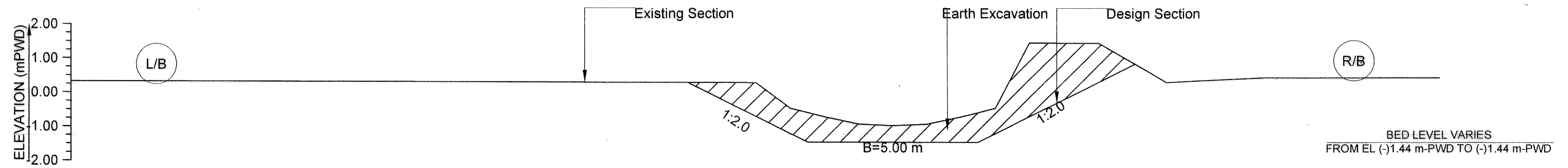
TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 1.000
APPLICABLE FROM KM 0.950 TO KM 1.050



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	1.864	1.000
	1.859	1.500
	0.814	7.000
	0.804	1.982
	0.799	0.000
	0.144	1.246
	0.252	2.000
	0.473	3.500
	0.547	4.000
	0.740	5.000
	0.786	6.000
	0.741	7.000
	0.484	8.500
	0.296	20.000
	0.267	20.901
	0.953	12.000
	0.951	13.303
	0.949	25.000
	0.486	27.000
	0.686	29.000
	0.731	30.000

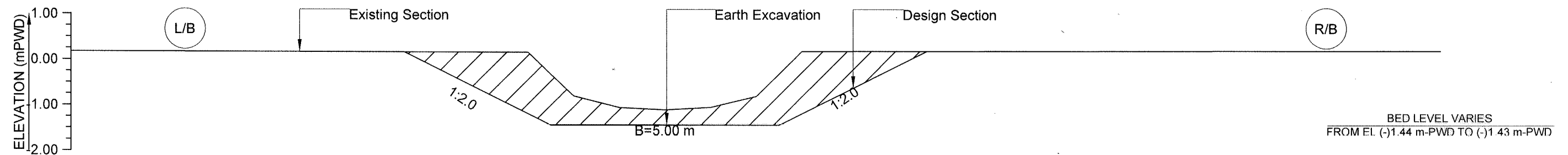
TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 1.100
APPLICABLE FROM KM 1.050 TO KM 1.150

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Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.322
Distance(m)	0.000
	5.000
	10.000 0.317
	15.000 0.311
	18.010 0.305
	19.755 0.301
	20.000 0.301
	21.000 (-)0.449
	21.500 (-)0.574(-)1.440
	22.000 (-)0.699
	23.000 (-)0.912
	24.000 (-)0.958(-)1.440
	25.000 (-)0.913
	26.000 (-)0.700
	26.500 (-)0.448
	27.000 (-)0.448
	28.000 1.476
	28.788 1.474
	30.000 1.472
	31.076 0.848
	32.000 0.312
	35.000 0.457
	40.000 0.452

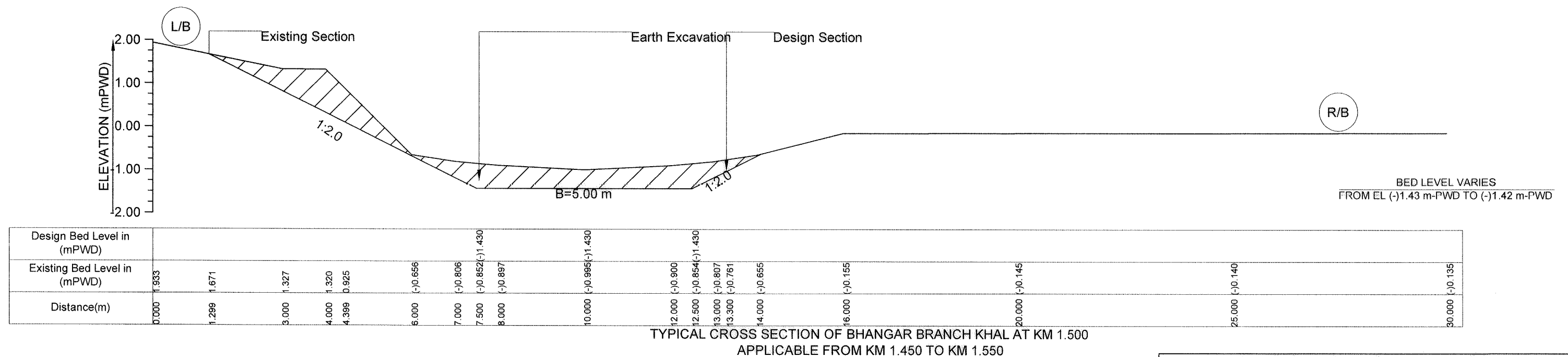
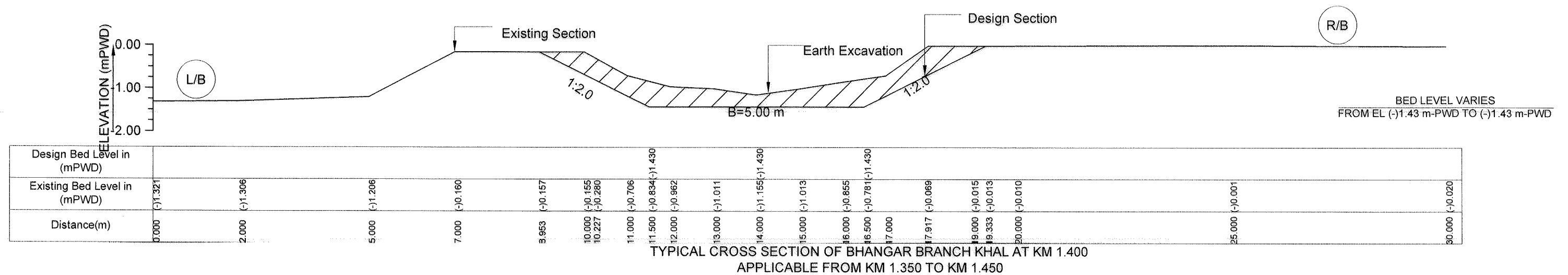
TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 1.200
APPLICABLE FROM KM 1.150 TO KM 1.250



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.172
Distance(m)	0.000 0.166 0.296 0.162 0.898 0.159 0.000 0.157 0.500 (-)0.324(-)1.440 1.000 (-)0.804 2.000 (-)1.054 3.000 (-)1.104(-)1.440 4.000 (-)1.053 5.000 (-)0.809 5.500 (-)0.316(-)1.440 6.000 0.177 7.120 0.178 8.741 0.180 10.000 0.182 15.000 0.187 20.000 0.192

TYPICAL CROSS SECTION OF BHANGAR BRANCH 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 Bhangar Branch Khal from km. 0.000 to km. 1.842 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 BHANGAR BRANCH 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: DC5-5787-10/13



Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Bhangar Branch Khal from km. 0.000 to km. 1.842 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 BHANGAR BRANCH KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

APPROVED BY:

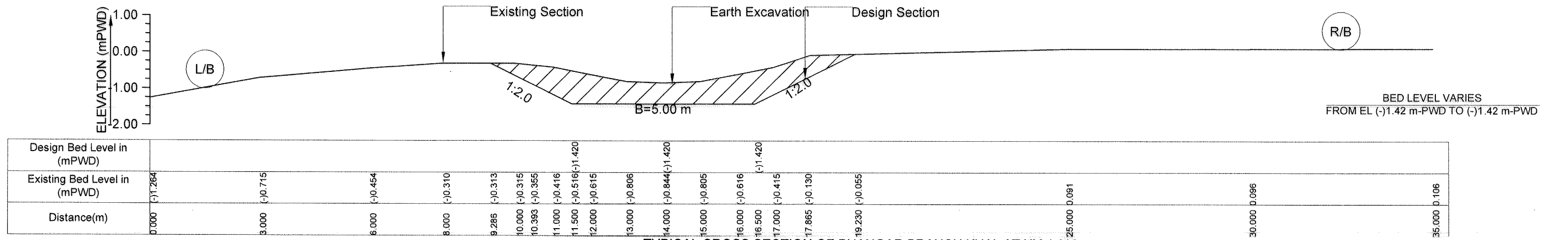
(JAKARIA PERVEZ), SE

CHECKED AND RECOMMENDED BY:

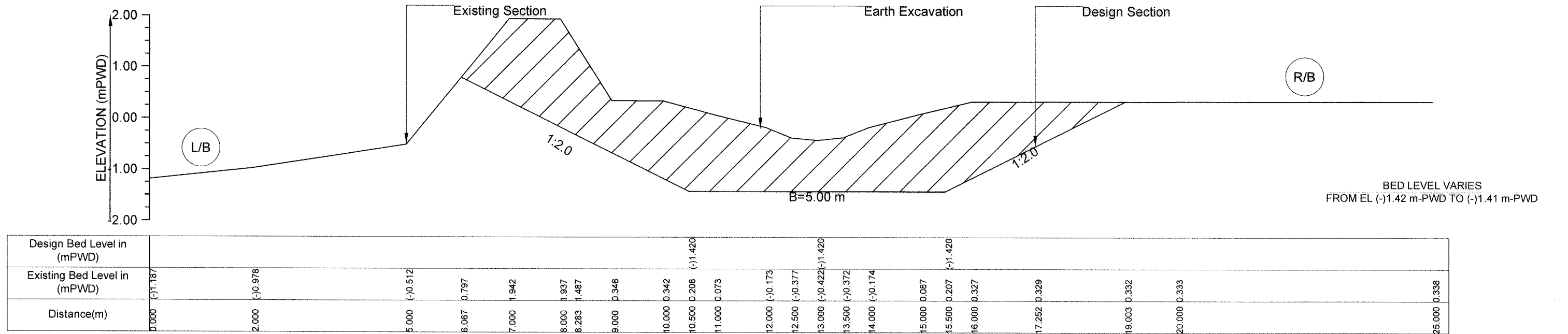
(MD. KAMRUL HASAN), EE

Date: 04/02/2025




Drawing No: DC5-5787-11/13

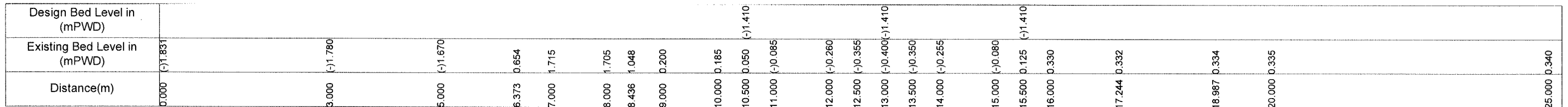
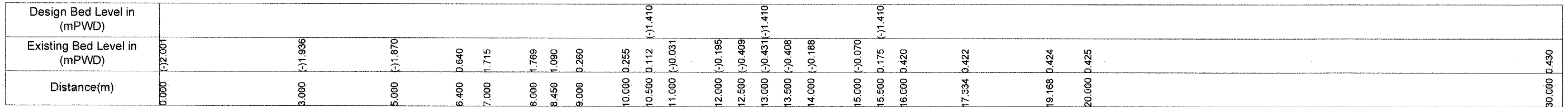


TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 1.600
APPLICABLE FROM KM 1.550 TO KM 1.650



TYPICAL CROSS SECTION OF BHANGAR BRANCH KHAL AT KM 1.700
APPLICABLE FROM KM 1.650 TO KM 1.750

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Bhangar Branch Khal from km. 0.000 to km. 1.842 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 BHANGAR BRANCH 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: DC5-5787-12/13



Drawing No:DC5-5787-13/13