

Bangladesh Water Development Board

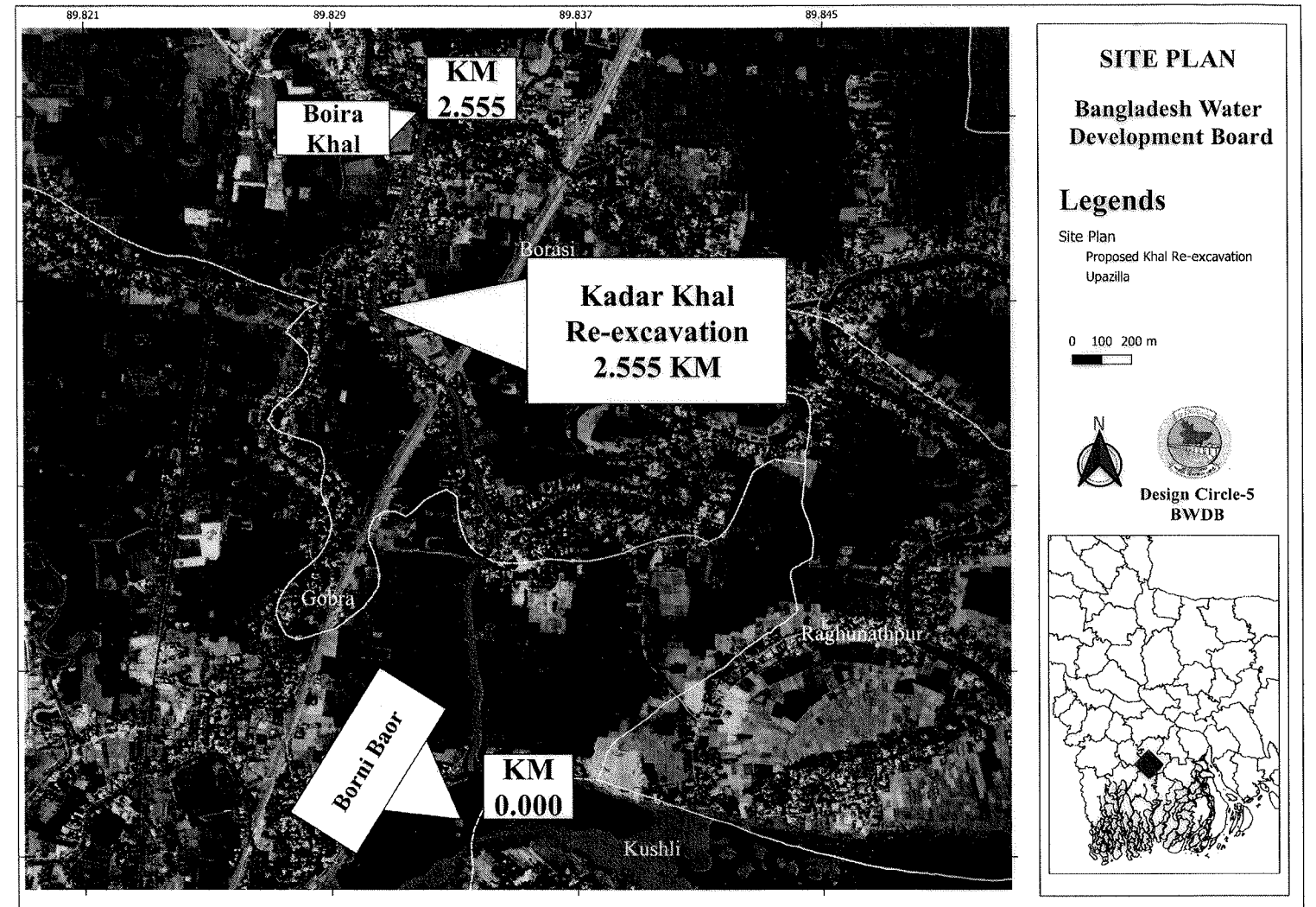
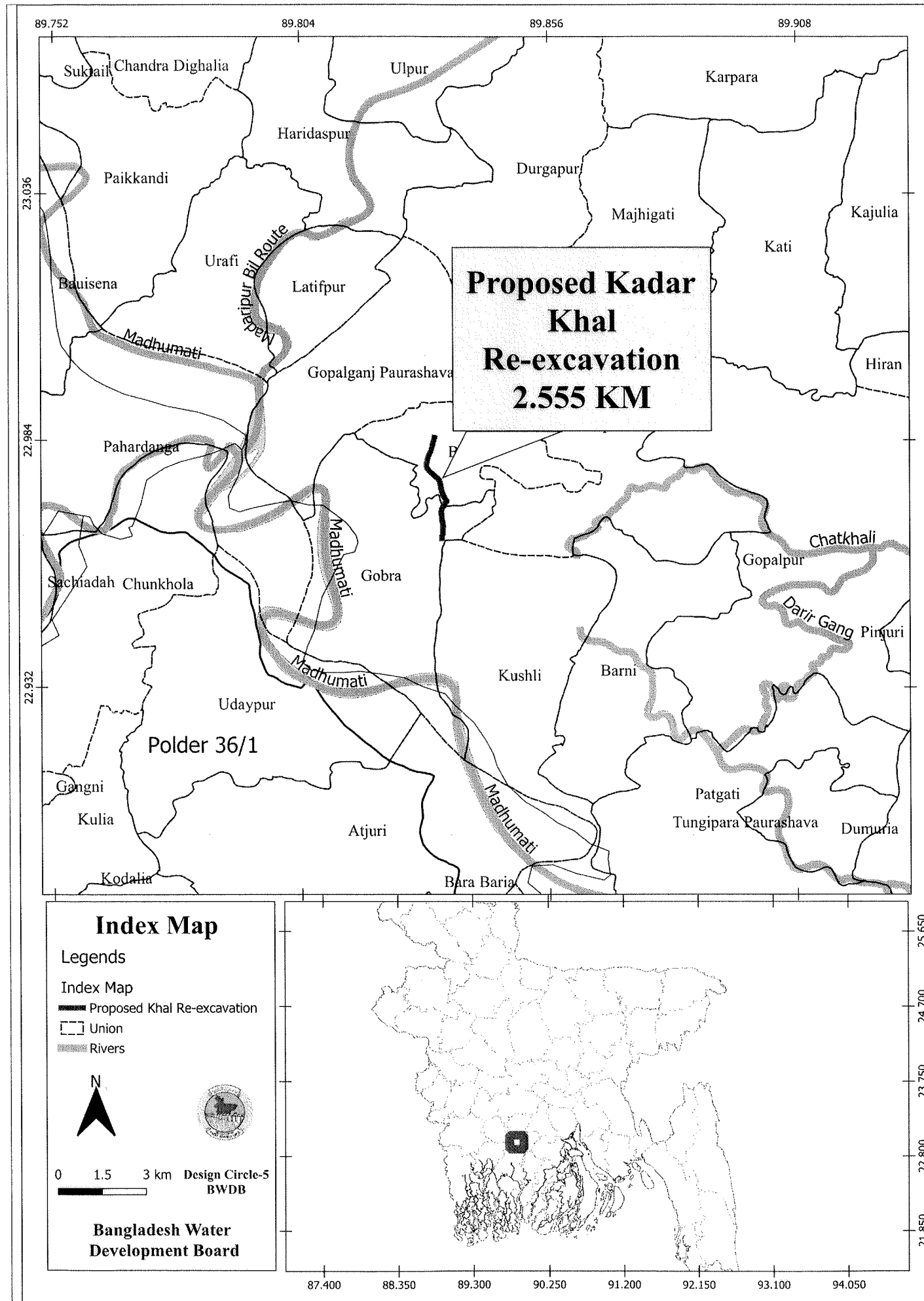
CRISP-WRM

Re-excavation of Kadar Khal from km. 0.000 to km. 2.555 in polder -1 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 Kadar Khal from km. 0.000 to km. 2.555 in polder -1 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 KADAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5795-01/17

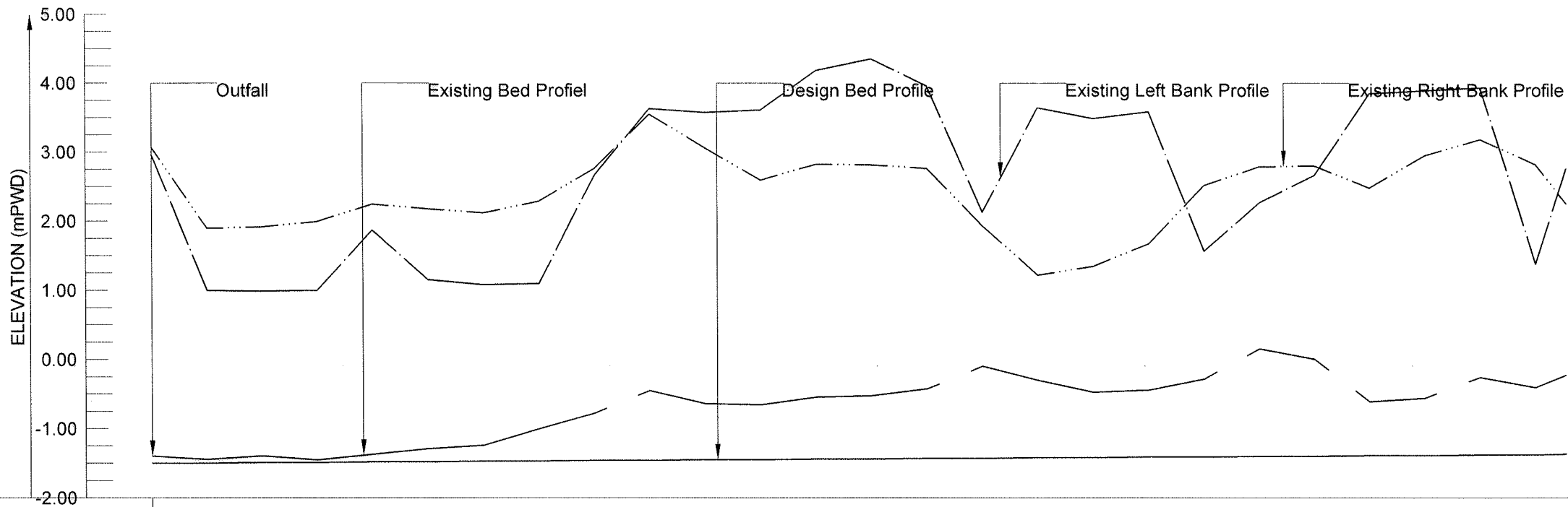
Adminstrative Notes. :

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-WRMHIS OFFICE MEMO NO-PMO/166; DATE: 28/10/2024.
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.

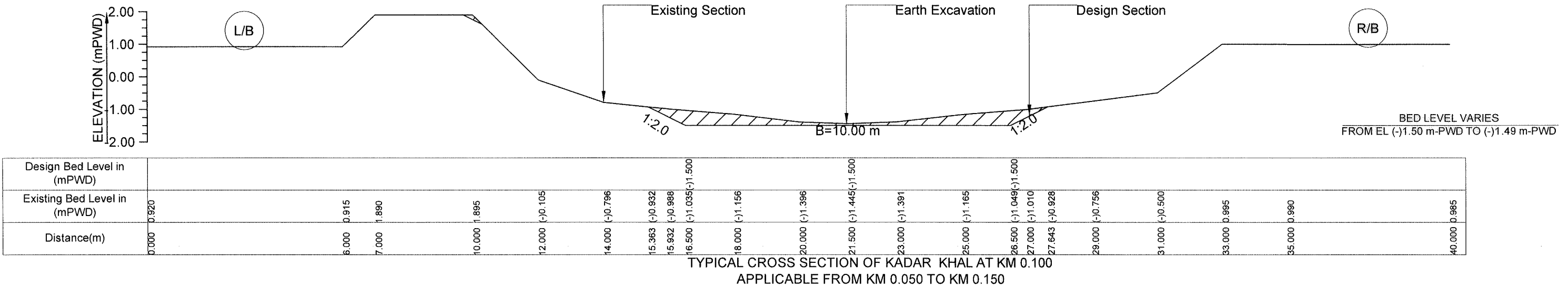
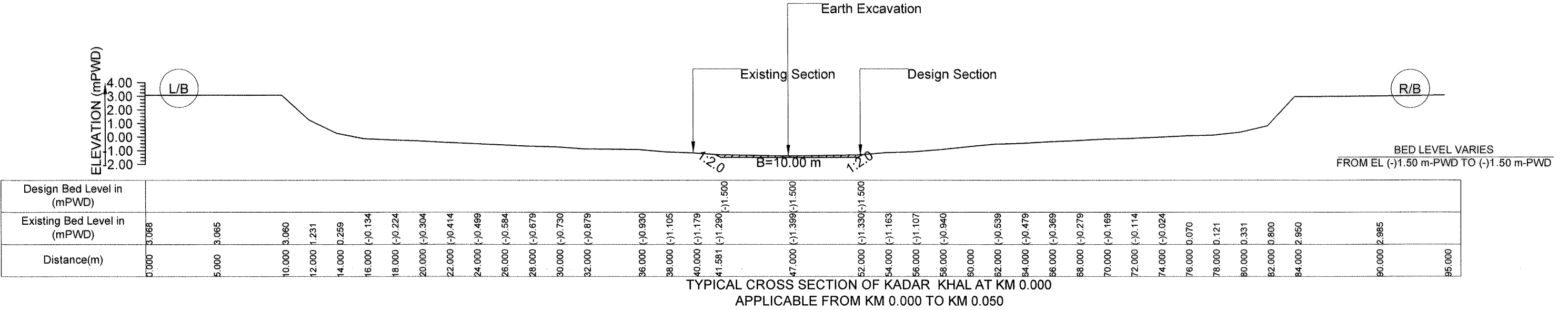
Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Kadar Khal from km. 0.000 to km. 2.555 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
NOTES FOR KADAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:23/2/2025	Drawing No:DC5-5795-02/17

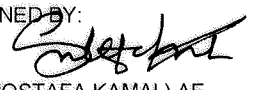
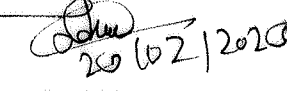



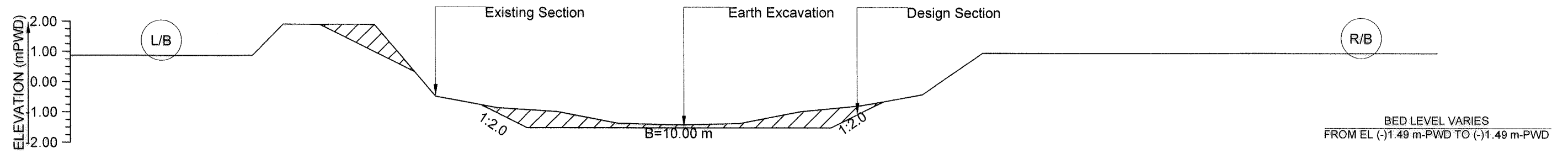
Distance(Km)	Existing Right Bank Level (mPWD)	Existing Left Bank Level (mPWD)	Existing Bed Level (mPWD)	Design Bed Level (mPWD)	Design Bed Width(m)
0.000	2.950	3.060	(-)1.399	(-)1.500	
0.100	0.995	1.895	(-)1.445		
0.200	0.985	1.915	(-)1.395	(-)1.490	
0.300	0.998	1.994	(-)1.452		
0.400	1.868	2.243	(-)1.372	(-)1.480	
0.500	1.153	2.178	(-)1.293		
0.600	1.079	2.119	(-)1.241	(-)1.470	
0.700	1.095	2.286	(-)1.004		
0.800	2.660	2.760	(-)0.780	(-)1.460	
0.900	3.629	3.549	(-)0.451		
1.000	3.575	3.059	(-)0.641	(-)1.450	
1.100	3.608	2.593	(-)0.657		
1.200	4.184	2.824	(-)0.546	(-)1.440	
1.300	4.353	2.813	(-)0.526		
1.400	3.963	2.764	(-)0.426	(-)1.430	
1.500	2.131	1.933	(-)0.099		
1.600	3.641	1.217	(-)0.303	(-)1.420	
1.700	3.485	1.345	(-)0.475		
1.800	3.582	1.670	(-)0.447	(-)1.410	
1.900	1.566	2.516	(-)0.284		
2.000	2.266	2.788	0.153	(-)1.400	
2.100	2.662	2.798	0.002		
2.200	3.848	2.477	(-)0.612	(-)1.390	
2.300	3.889	2.948	(-)0.562		
2.400	3.934	3.180	(-)0.260	(-)1.380	
2.500	1.376	2.817	(-)0.408		
2.555	2.756	2.251	(-)0.233	(-)1.370	

LONG SECTION OF KADAR KHAL APPLICABLE FROM KM 0.000 TO KM 2.555

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DESIGNED BY:  (MD. MOSTAFA KAMAL),AE	APPROVED BY:  20/02/2025 (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:23/2/2025	Drawing No:DC5-5795-03/17

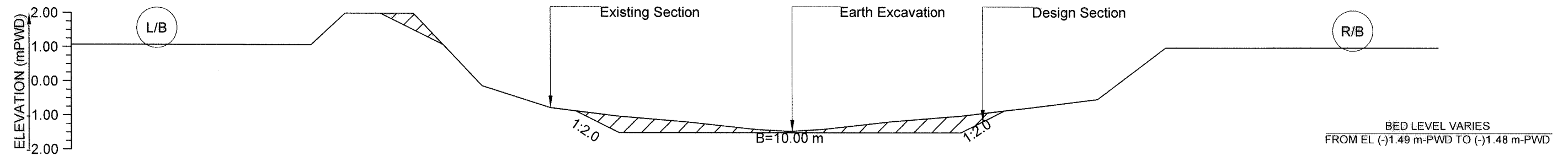


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TYPICAL CROSS SECTION OF KADAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5795-04/17



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.875
Distance(m)	0.000
	6.000 0.870
	7.000 1.907
	10.000 1.915
	12.000 (-0.456)
	13.489 (-0.734)
	14.000 (-0.630)
	14.244 (-0.845)
	15.000 (-0.893)(-1.490)
	16.000 (-0.956)
	18.000 (-1.346)
	20.000 (-1.395)(-1.490)
	22.000 (-1.347)
	24.000 (-0.961)
	25.000 (-0.859)(-1.490)
	25.865 (-0.771)
	26.730 (-0.625)
	28.000 (-0.395)
	30.000 0.985
	40.000 0.980
	45.000 0.975

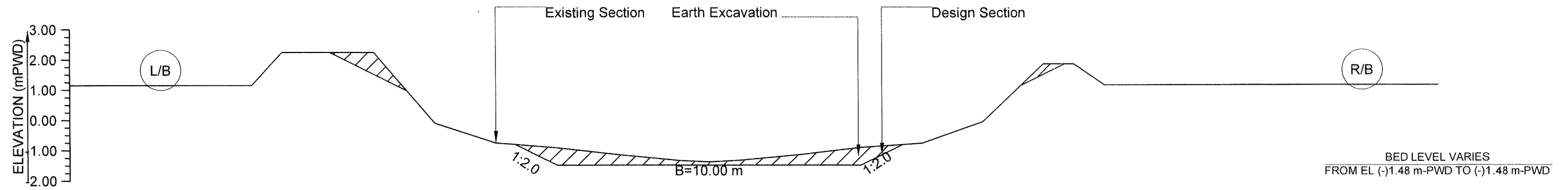
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 0.200
APPLICABLE FROM KM 0.150 TO KM 0.250



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
1.068	1.068	0.000
1.063	1.063	5.000
1.058	1.058	7.000
1.987	1.987	8.000
1.994	1.994	10.000
-0.127	-0.127	12.000
-0.767	-0.767	14.000
-0.857	-0.857	14.734
-0.934	-0.934	15.367
-1.490	-1.490	16.000
-1.177	-1.177	18.000
-1.397	-1.397	20.000
-1.452	-1.452	21.000
-1.393	-1.393	22.000
-1.163	-1.163	24.000
-1.490	-1.490	26.000
-0.925	-0.925	26.641
-0.849	-0.849	27.283
-0.763	-0.763	28.000
-0.512	-0.512	30.000
0.998	0.998	32.000
1.003	1.003	35.000
1.008	1.008	40.000

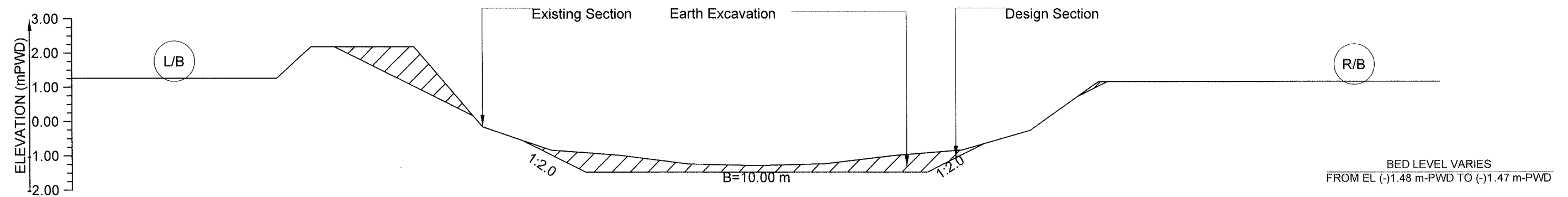
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 0.300
APPLICABLE FROM KM 0.250 TO KM 0.350

Bangladesh Water Development Board	
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DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  20/02/2025 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 25/2/2025	Drawing No: DC5-5795-05/17



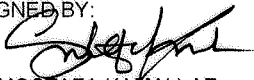

Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.153
Distance(m)	1.000
	1.148
	2.248
	2.243
	-0.093
	-0.747
	-0.798
	-0.852
	-0.907(-1.480
	-1.132
	-1.327
	-1.372(-1.480
	-1.323
	-1.133
	-0.893(-1.480
	-0.847
	-0.801
	-0.757
	-0.042
	1.868
	1.863
	1.168
	1.174
	1.178

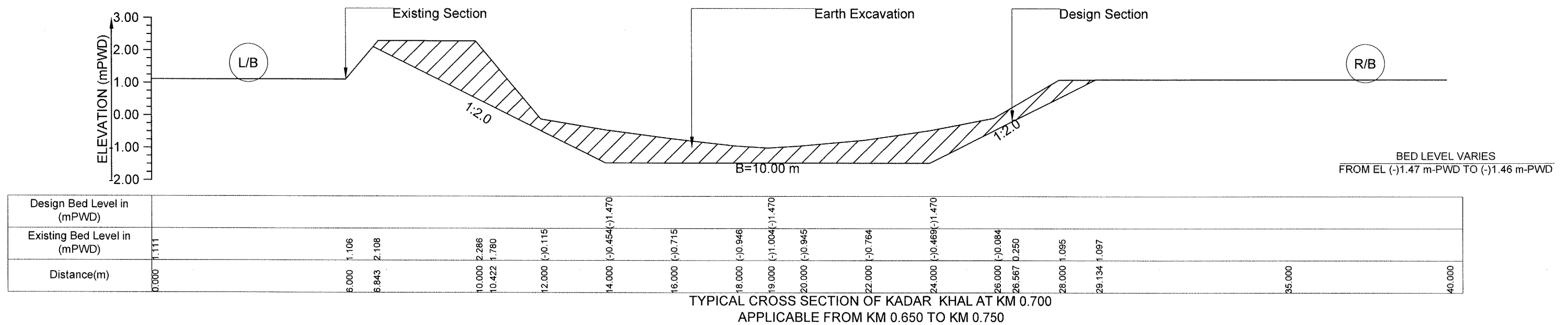
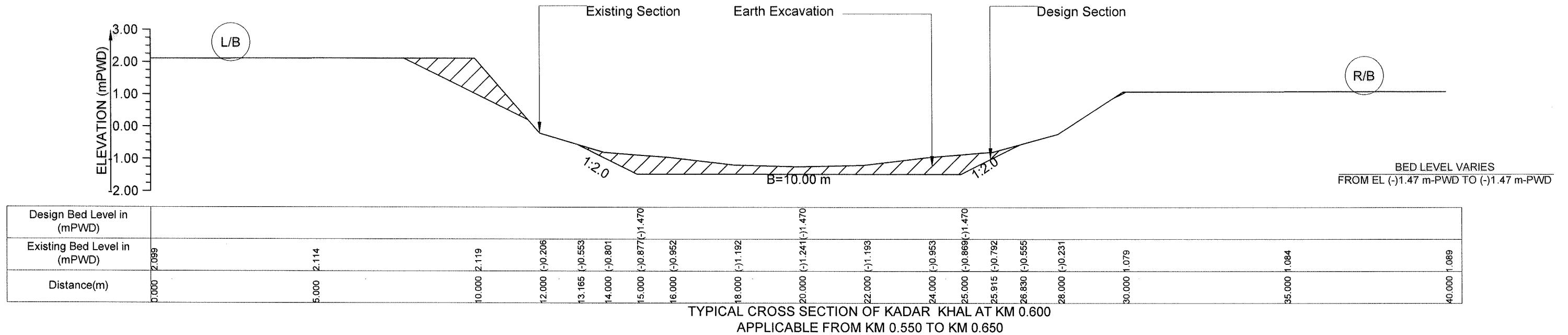
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 0.400
APPLICABLE FROM KM 0.350 TO KM 0.450



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	1.253	0.000
		5.000 1.258
		7.000 2.173
		10.000 2.178
		12.000 (-0.167
		13.154 (-0.557
		14.000 (-0.843
		15.000 (-0.918)(-1.480
		16.000 (-0.993
		18.000 (-1.248
		20.000 (-1.293)(-1.480
		22.000 (-1.242
		24.000 (-1.007
		25.000 (-0.925)(-1.480
		25.824 (-0.857
		26.648 (-0.656
		28.000 (-0.268
		30.000 1.153
		35.000 1.158
		40.000 1.163

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

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TYPICAL CROSS SECTION OF KADAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  26/04/2020 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5795-06/17



Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Kadar Khal from km. 0.000 to km. 2.555 in polder -1 in
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Division. BWDB, Gopalganj during the year 2024-2025

TYPICAL CROSS SECTION OF KADAR KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

CHECKED AND RECOMMENDED BY:

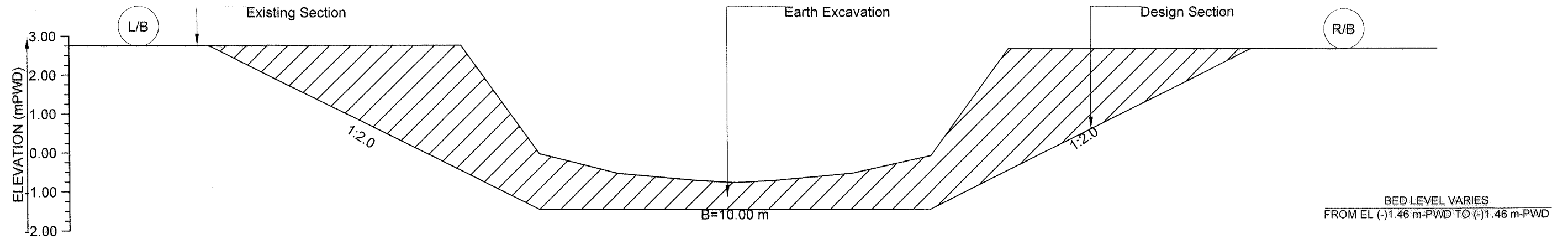
(MD. KAMRUL HASAN), EE

APPROVED BY:

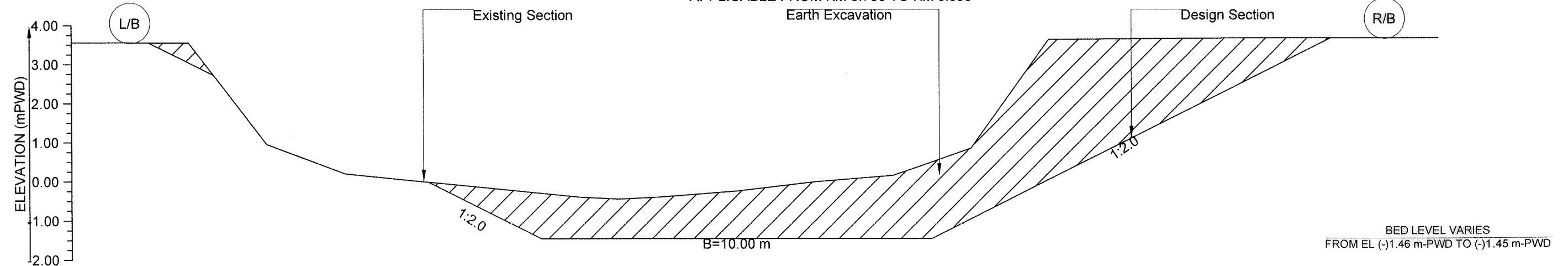
(JAKARIA PERVEZ), SE

Date: 23/2/2025

Drawing No: DC5-5795-07/17




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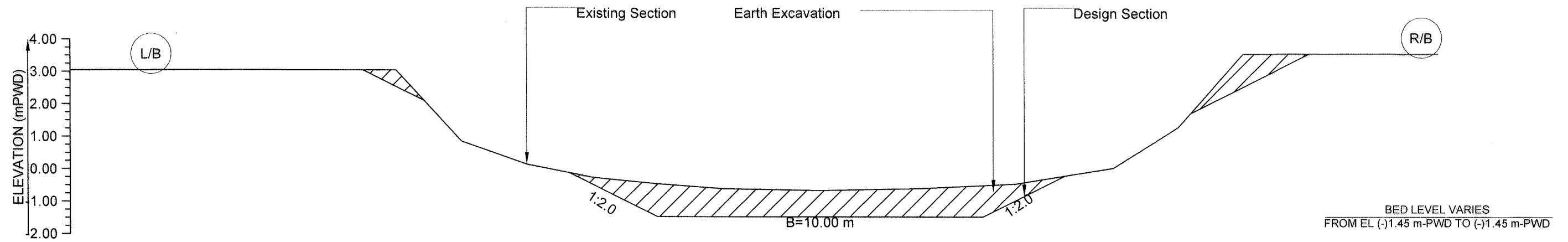
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 0.800
APPLICABLE FROM KM 0.750 TO KM 0.850



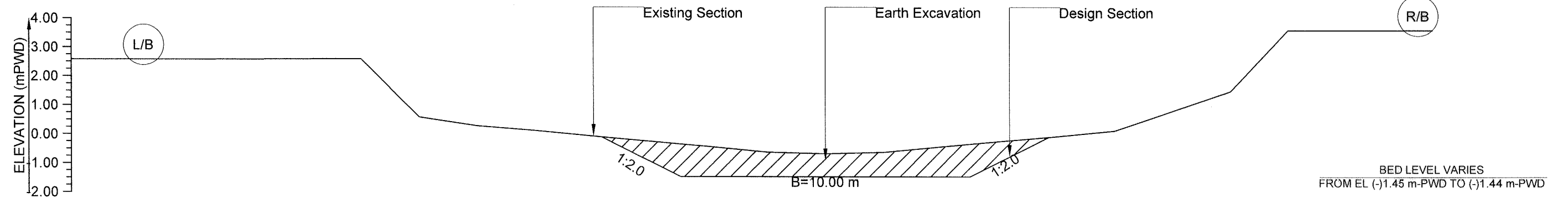
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	3.559
Distance(m)	0.000
	3.549
	0.949
	0.198
	-0.006
	-0.159
	-0.202
	-0.302(-)1.460
	-0.402
	-0.451
	-0.403
	-0.251(-)1.460
	-0.011
	0.149
	0.496 (-)1.460
	0.843
	3.629
	3.643
	3.658
	3.654

TYPICAL CROSS SECTION OF KADAR KHAL AT KM 0.900
APPLICABLE FROM KM 0.850 TO KM 0.950

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Date: 23/2/2025	Drawing No: DC5-5795-08/17

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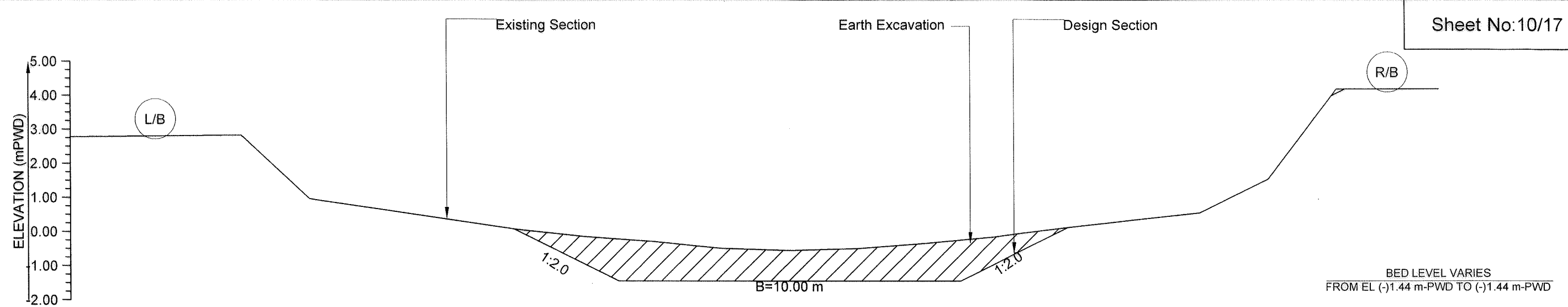
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 1.000
APPLICABLE FROM KM 0.950 TO KM 1.050



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	2.573	0.000
	2.578	05.000
	2.593	10.000
	0.593	12.000
	0.293	14.000
	0.131	16.000
	-0.062 -0.086	18.000 18.272
	-0.205 -0.237	19.636 20.000
	-0.327 -0.450	21.000 21.450
	-0.417	22.000
	-0.607	24.000
	-0.657 -0.608	26.000 28.000
	-0.423 -0.331 -0.450	30.000 31.000 31.450
	-0.238 -0.206	32.000 32.363
	-0.087 -0.063	33.726 34.000
	0.132	36.000
	1.493	40.000
	3.608	42.000
		46.000
		47.000
		56.13

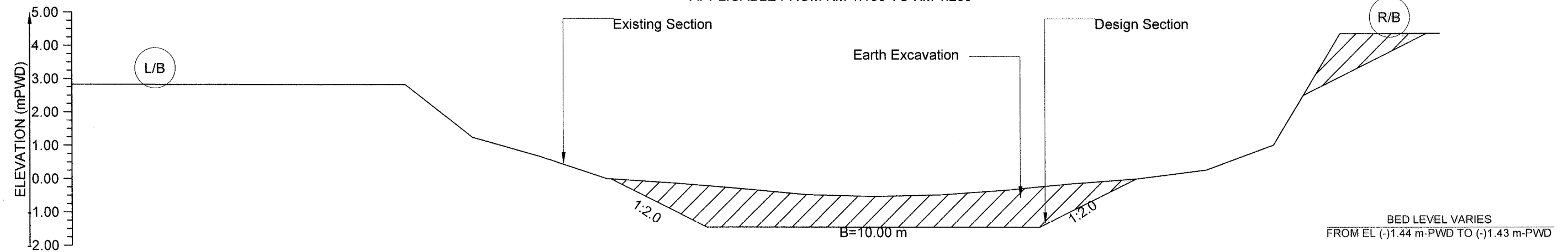
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 1.100
APPLICABLE FROM KM 1.050 TO KM 1.150

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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5795-09/17



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	2.774	0.000
	2.824	5.000
	0.964	7.000
	0.664	9.000
	0.364	11.000
	0.080	12.961
	-0.085	14.480
	-0.141	15.000
	-0.1440	16.000
	-0.284	17.000
	-0.487	19.000
	-0.546	21.000
	-0.492	23.000
	-0.336	25.000
	-0.241	26.000
	-0.146	27.000
	-0.072	27.568
	0.113	29.000
	0.339	31.000
	0.556	33.000
	1.539	35.000
	4.184	37.000
	4.191	40.000

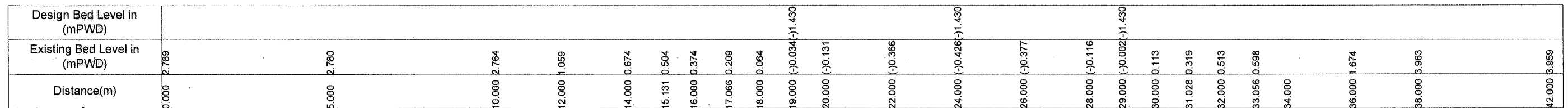
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 1.200
APPLICABLE FROM KM 1.150 TO KM 1.250



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	2.829
Distance(m)	0.000
	2.819
	2.813
	1.244
	0.674
	0.004
	-0.098
	-0.126
	-0.207
	-0.287
	-0.477
	-1.440
	-1.440
	-0.478
	-0.336
	-1.440
	-0.141
	-0.107
	0.004
	0.269
	1.013
	4.353
	4.364




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

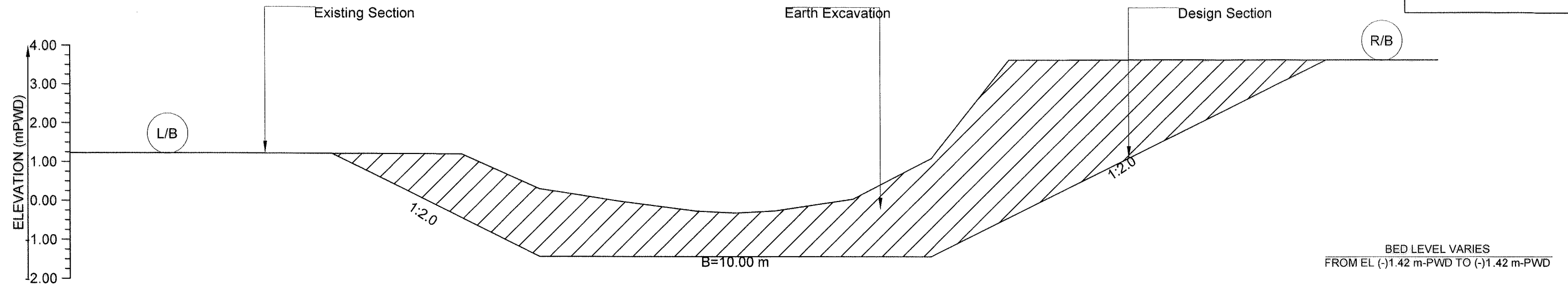
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TYPICAL CROSS SECTION OF KADAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  20/02/2026 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5795-10/17



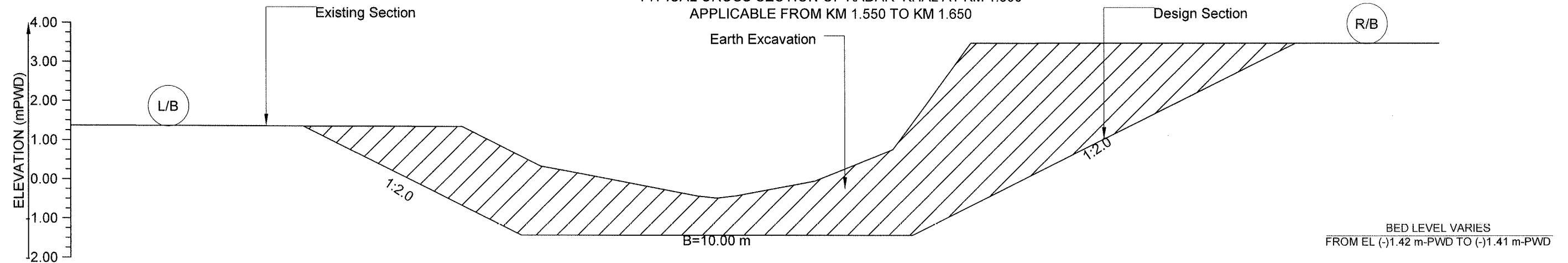
The diagram illustrates a cross-section of a road embankment. The vertical axis represents ELEVATION (mPWD) from -2.00 to 4.00. The horizontal axis represents the road width, with a central excavation of B=10.00 m. The existing section is shown as a solid line, and the design section is shown as a hatched area. The slope ratio is 1:2.0. The diagram also indicates the location of the L/B (Left Bank) and R/B (Right Bank) and the BED LEVEL (FROM EL (-)1.43 m-P).

[illegible]

<p>TYPICAL CROSS SECTION OF KADAR KHAL AT KM 1.500 APPLICABLE FROM KM 1.450 TO KM 1.550</p>	Bangladesh Water Development Board	
	Office of The Superintending Engineer, Design Circle-5	
	CRISP-WRM	
	Re-excavation of Kadar Khal from km. 0.000 to km. 2.555 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
	TYPICAL CROSS SECTION OF KADAR KHAL	
	DESIGNED BY  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  25/02/2025 (JAKARIA PERVEZ), SE
	CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
	Date: 23/2/2025	Drawing No: DC5-5795-11/17

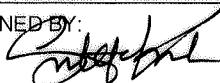


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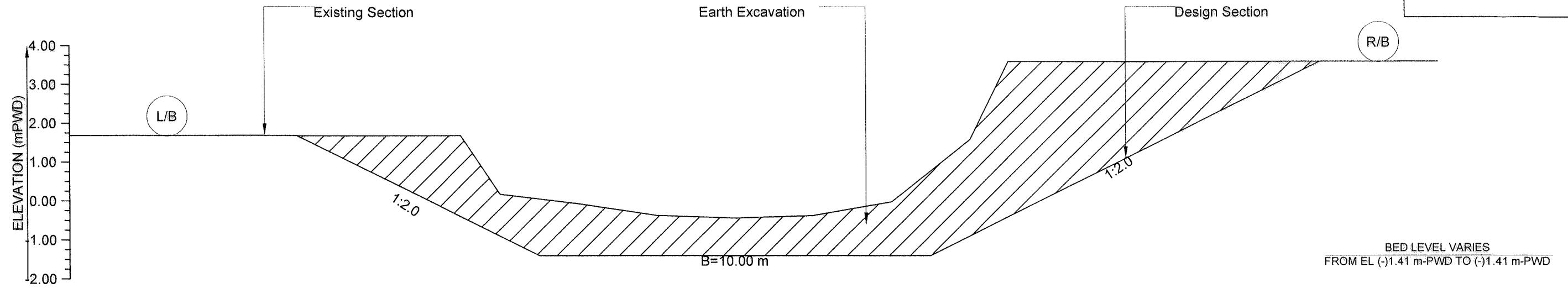
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 1.600
APPLICABLE FROM KM 1.550 TO KM 1.650



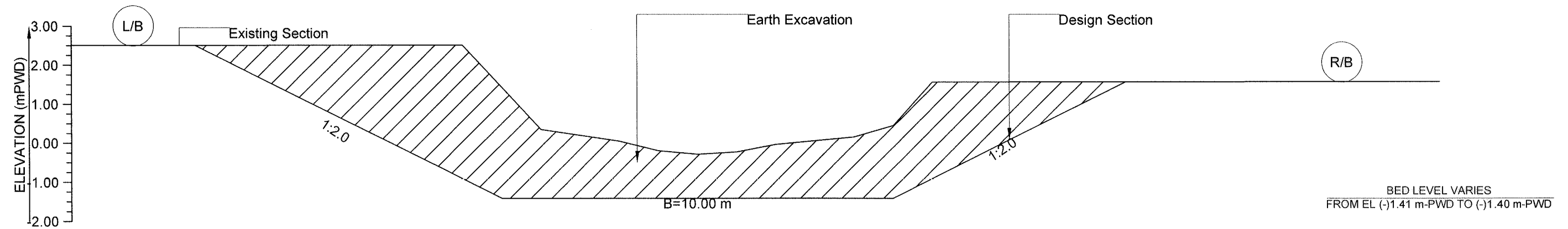
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.370
Distance(m)	0.000
	1.355
	1.353
	1.348
	1.345
	0.991 (-)1.420
	0.340
	-0.035
	-0.423
	-0.475(-)1.420
	-0.419
	-0.041
	0.760
	1.441 (-)1.420
	3.485
	3.493
	3.494
	11.328
	45.000

TYPICAL CROSS SECTION OF KADAR 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	
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TYPICAL CROSS SECTION OF KADAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  20/6/24/2024
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	(JAKARIA PERVEZ), SE
Date: 23/2/2025	Drawing No: DC5-5795-12/17

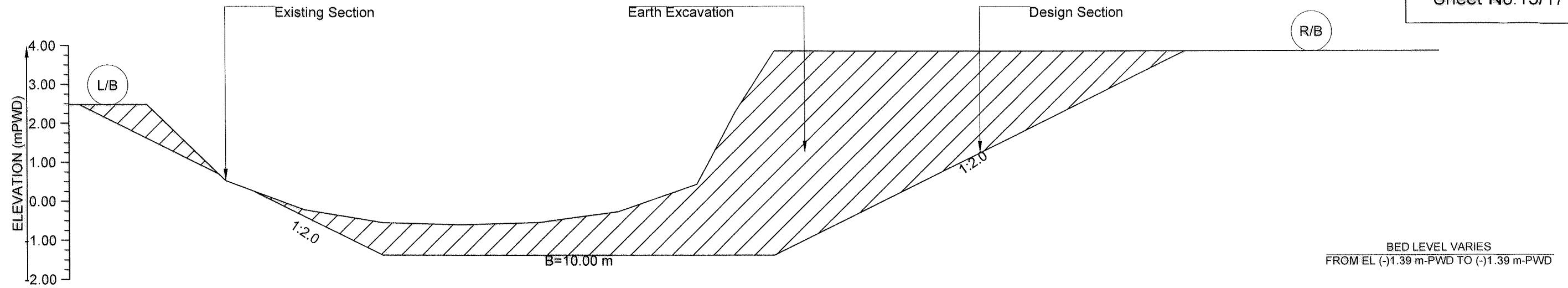
[illegible]

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

[illegible]

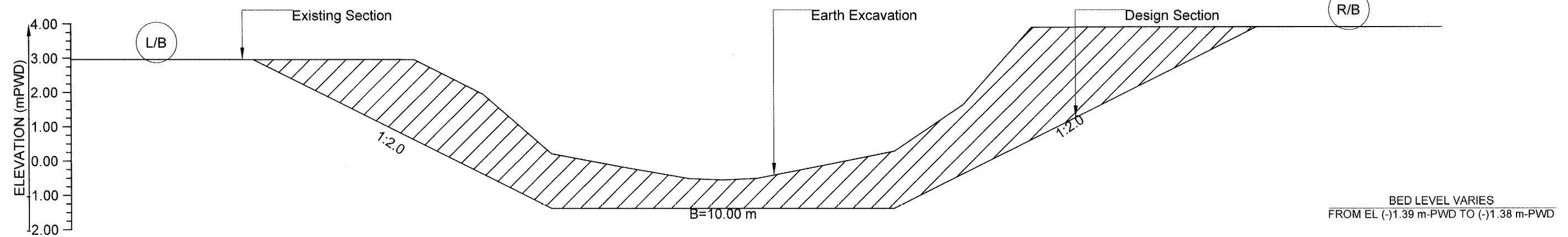
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 1.900
APPLICABLE FROM KM 1.850 TO KM 1.950

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
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TYPICAL CROSS SECTION OF KADAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  20/02/2025 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5795-13/17



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	2.483	2.477	0.520	0.260	-0.223	-0.281	-0.557	-0.612	-0.553	-0.415	-0.277	0.425	2.293	3.848		3.854			
Distance(m)	0.000	2.000	4.000	4.700	6.000	6.350	8.000	10.000	12.000	13.000	14.000	16.000	17.000	18.000		22.000	23.244	28.488	35.000

TYPICAL CROSS SECTION OF KADAR KHAL AT KM 2.200
APPLICABLE FROM KM 2.150 TO KM 2.250



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	2.958		2.953	2.953		2.948	2.948		1.938	0.203	-0.177	-0.523	-0.562	-0.520	-0.123	0.276	1.623	3.889	3.894
Distance(m)	0.000		5.000	5.315		9.657	10.000		12.000	14.000	16.000	18.000	19.000	20.000	22.000	24.000	26.000	28.000	29.293

TYPICAL CROSS SECTION OF KADAR KHAL AT KM 2.300
APPLICABLE FROM KM 2.250 TO KM 2.350

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

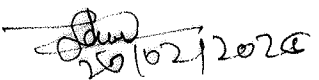
Re-excavation of Kadar Khal from km. 0.000 to km. 2.555 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025

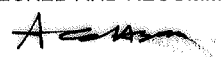
TYPICAL CROSS SECTION OF KADAR KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

APPROVED BY:


25/02/2024

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

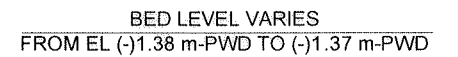
(JAKARIA PERVEZ), SE

Date: 23/2/2025

Drawing No: DC5-5795-15/17

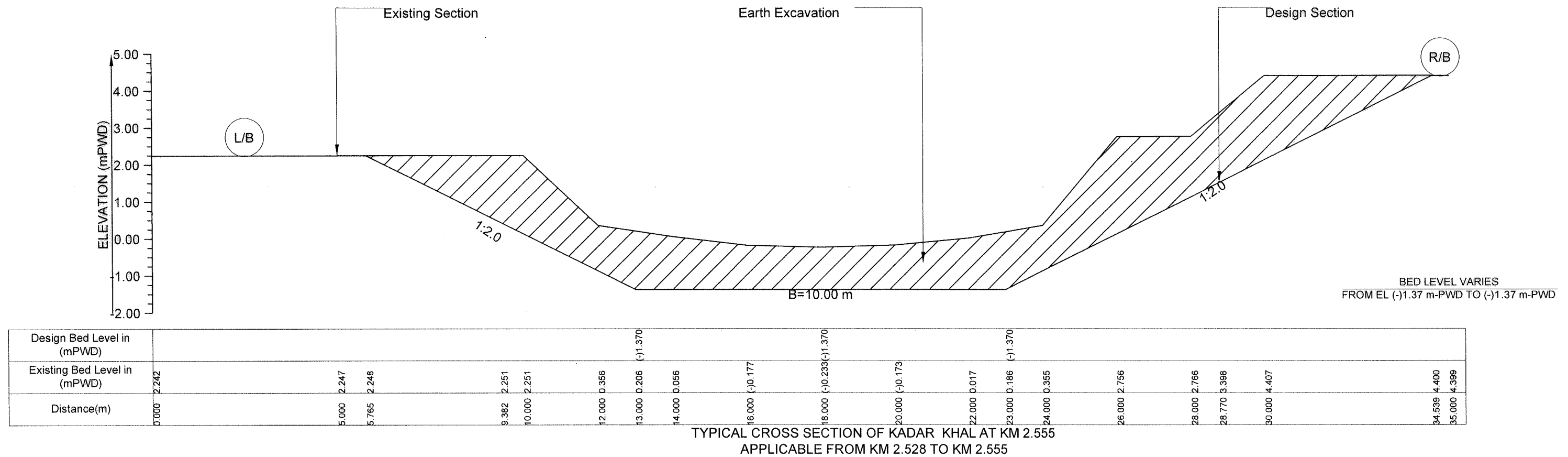


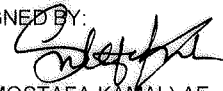
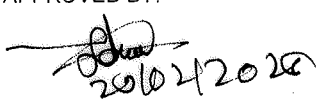

TYPICAL CROSS SECTION OF KADAR KHAL AT KM 2.400
APPLICABLE FROM KM 2.350 TO KM 2.450



TYPICAL CROSS SECTION OF KADAR KHAL AT KM 2.500
APPLICABLE FROM KM 2.450 TO KM 2.528

Drawing No:DC5-5795-16/17



Bangladesh Water Development Board	
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CRISP-WRM	
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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:23/2/2025	Drawing No:DC5-5795-17/17