

Bangladesh Water Development Board

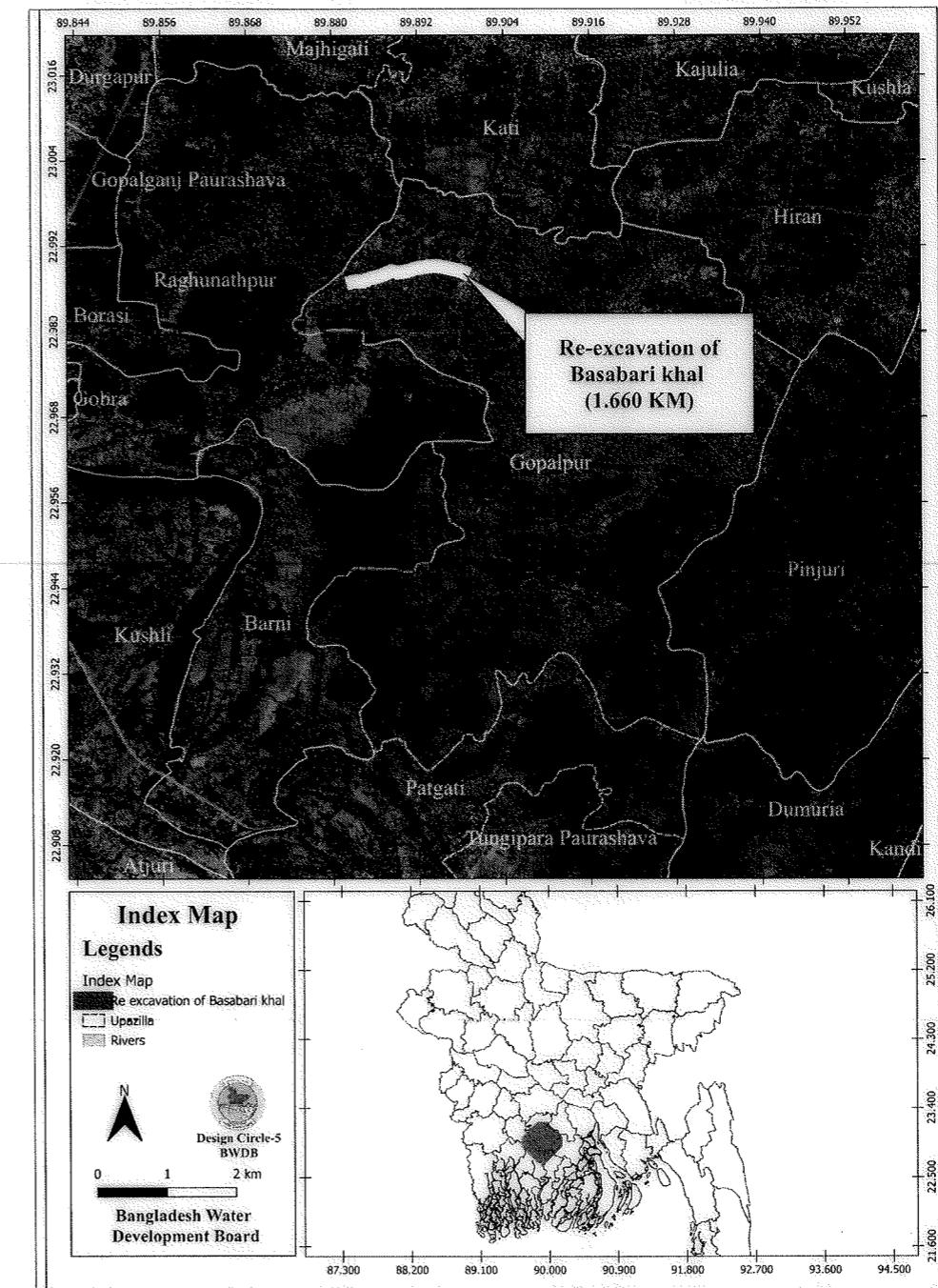
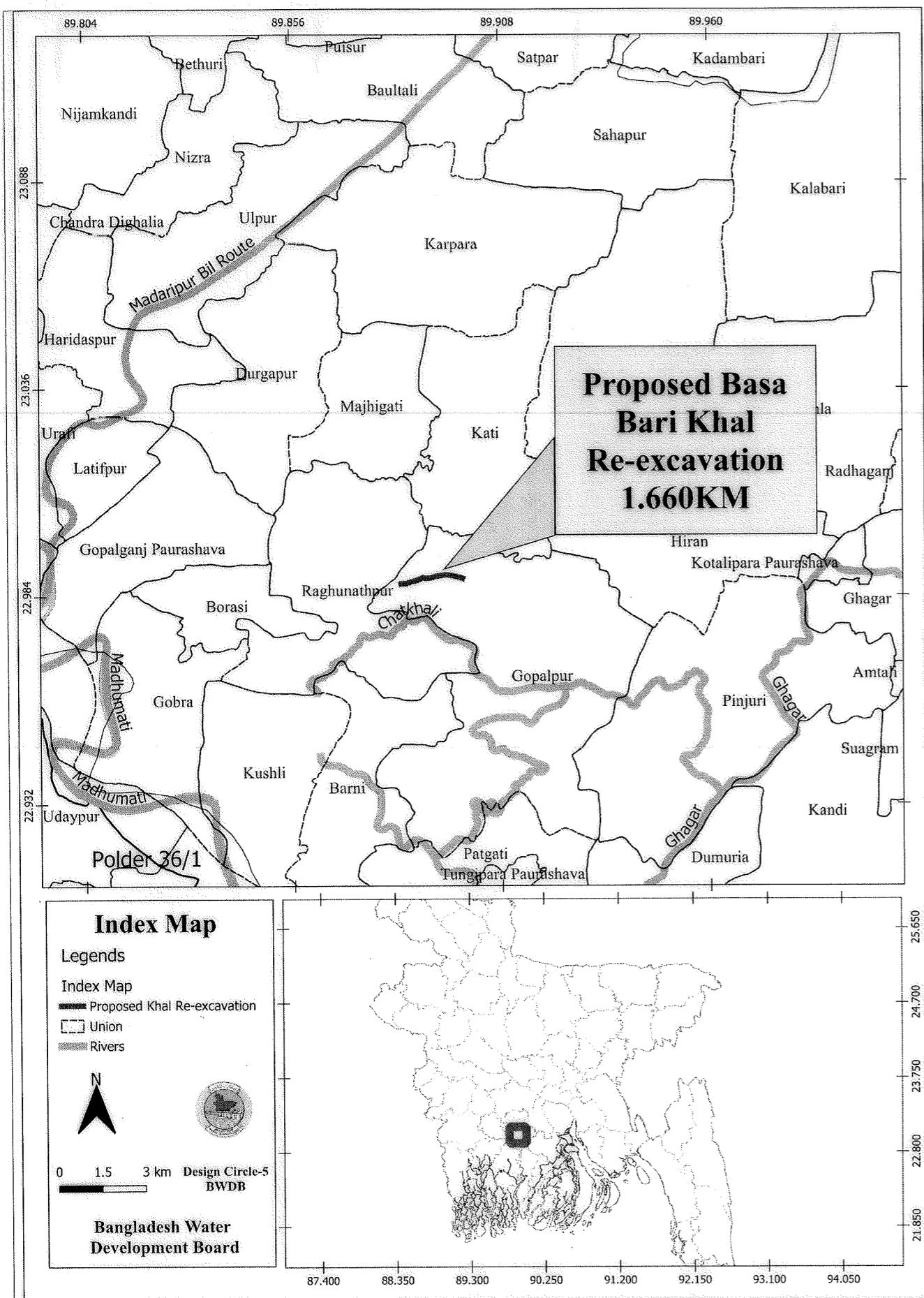
CRISP-WRM

Re-excavation of Basa Bari Khal from km. 0.000 to km. 1.660 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(CRISP-WRM)

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 Basa Bari Khal from km. 0.000 to km. 2.260 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 BASABARI KHAL

DESIGNED BY:

09.02.25
(MD MOSTAFA KAMAL) AE

APPROVED

CHECKED AND RECOMMENDED BY:


(JAKARIA PERVEZ),SE

Date:04/02/2025

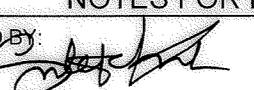
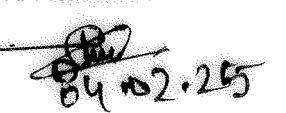
Drawing No:DC5-5789-01/08

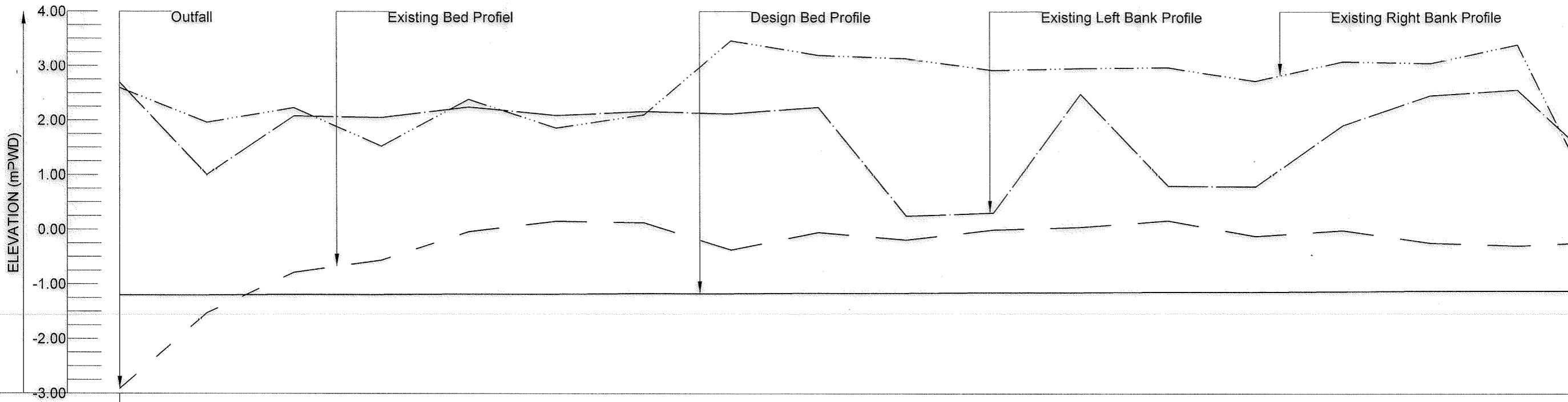
Administrative Notes :

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 EROSION.
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 THROGHOUT 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	
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NOTES FOR BASABARI 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:DC5-5789-02/08



	Design Bed Width(m)	Design Bed Level (mPWD)	Existing Bed Level (mPWD)	Existing Left Bank Level (mPWD)	Existing Right Bank Level (mPWD)	Distance(Km)
0.000	2.694	2.597 (-2.915 (-1.200				
0.100	1.004	1.961 (-1.527				
0.200	2.077	2.226 (-0.785 (-1.190				
0.300	2.049	1.526 (-0.563				
0.400	2.245	2.385 (-0.041 (-1.180				
0.500	2.092	1.859 0.155				
0.600	2.159	2.102 0.124 (-1.170				
0.700	2.122	3.462 (-0.373				
0.800	2.242	3.197 (-0.049 (-1.160				
0.900	0.250	3.136 (-0.189				
1.000	0.306	2.921 (-0.004 (-1.150				
1.100	2.482	2.953 0.044				
1.200	0.798	2.972 0.162 (-1.140				
1.300	0.787	2.723 (-0.122				
1.400	1.909	3.079 (-0.015 (-1.130				
1.500	2.456	3.047 (-0.243 (-1.120				
1.600	2.558	3.387 (-0.298				
1.660	1.661	1.449 (-0.254				

LONG SECTION OF BASABARI KHAL APPLICABLE FROM KM 0.000 TO KM 1.660

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-2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under
Specialized Division. BWDB, Gopalganj during the year 2024-2025

LONG SECTION OF BASABARI KHAL

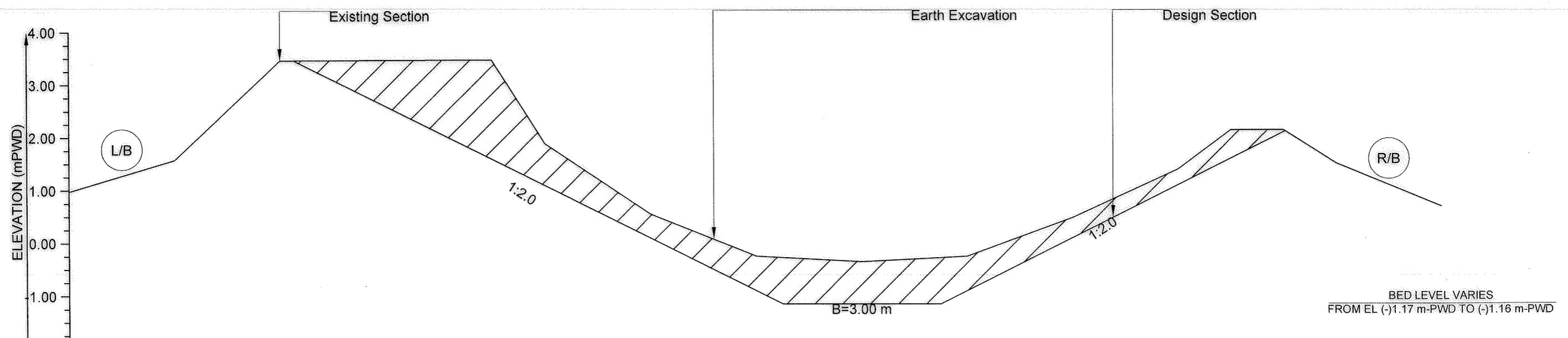
DESIGNED BY:

09.02.25
(MD. MOSTAFA KAMAL), AEAPPROVED BY:

09.02.25
(JAKARIA PERVEZ), SECHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

Date: 04/02/2025 Drawing No: DC5-5789-03/08



Design Bed Level in (mPWD)																																					
Existing Bed Level in (mPWD)	0.973	1.571	3.451	3.452																																	
Distance(m)	0.000	2.000	4.000	4.257	8.000	3.462	8.878	2.066	11.000	0.531	13.000	-0.268	13.500	-0.294	(-)1.170	15.000	-0.373	(-)1.170	16.500	-0.297	(-)1.170	17.000	-0.271	19.000	0.462	19.766	0.812	21.000	1.376	22.000	2.122	23.000	2.117	24.000	1.482	26.000	0.663

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

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TYPICAL CROSS SECTION OF BASABARI KHAL

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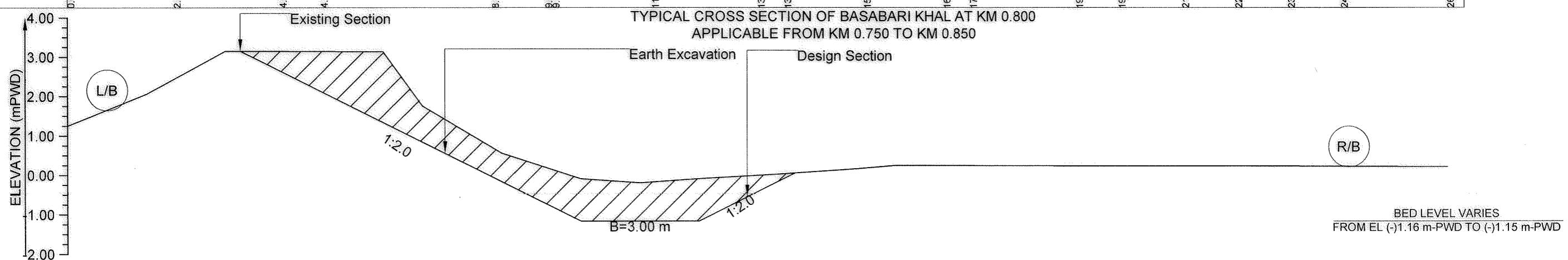
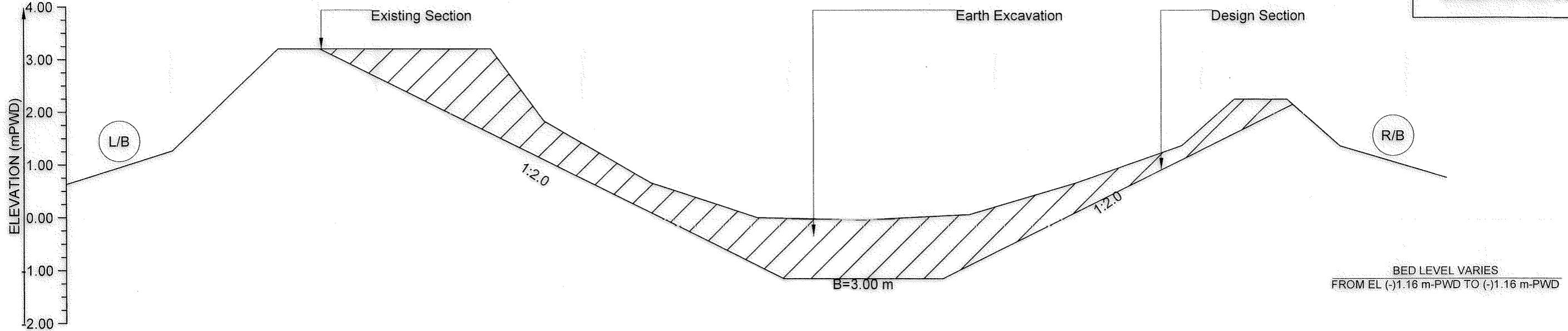
(MD. MOSTAFA KAMAL), AE
04-02-25

APPROVED BY:

04-02-25
(JAKARIA PERVEZ), SE

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE



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

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

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TYPICAL CROSS SECTION OF BASABARI KHAL

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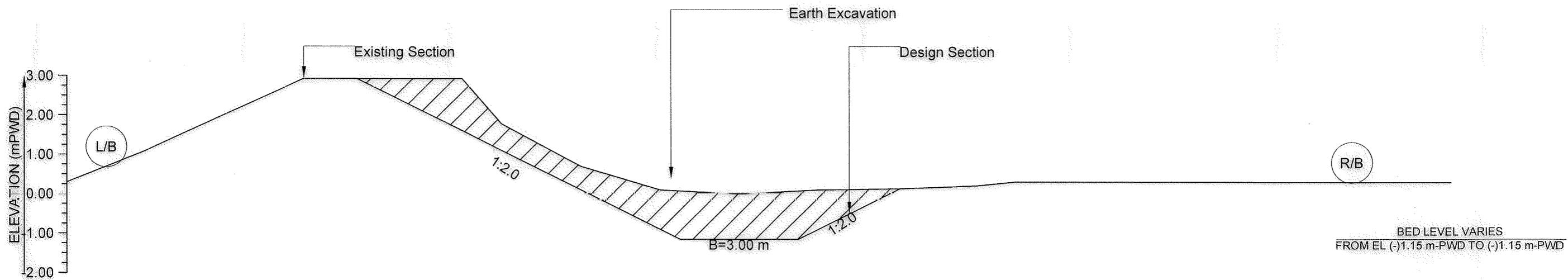
(MD. MOSTAFA KAMAL), AE
09.02.25

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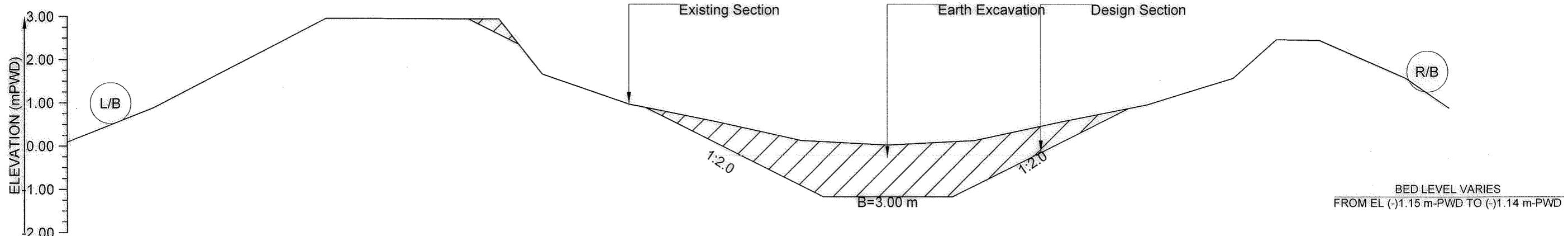
(JAKARIA PERVEZ), SE
04.02.25

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE



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



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

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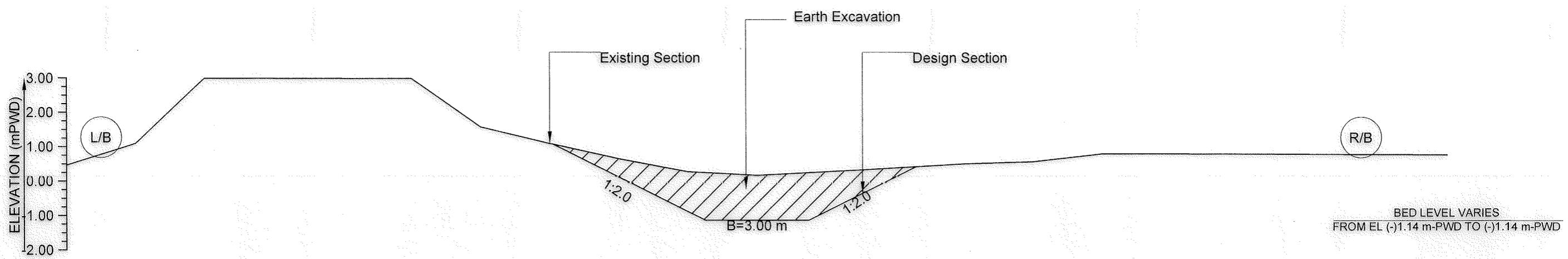
TYPICAL CROSS SECTION OF BASABARI KHAL

DESIGNED BY:
[Signature] 09.02.25
(MD. MOSTAFA KAMAL), AE

APPROVED BY:
[Signature] 09.02.25

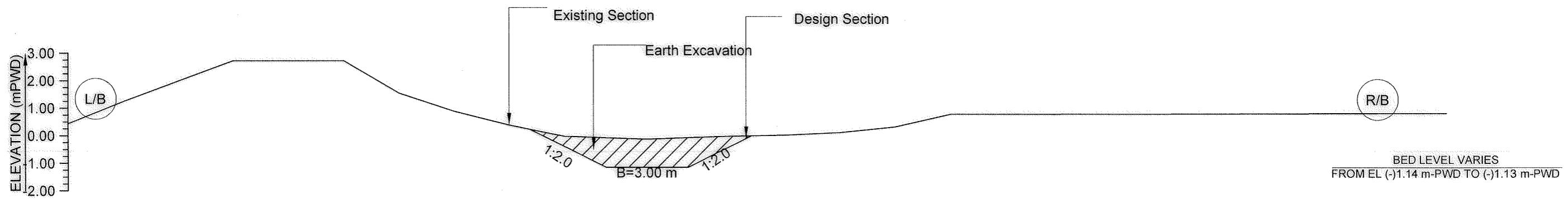
CHECKED AND RECOMMENDED BY:
[Signature]
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(JAKARIA PERVEZ), SE



Design Bed Level in (mPWD)	0.482
Existing Bed Level in (mPWD)	0.487
Distance(m)	0.000
	2.000 1.087
	4.000 2.986
	10.000 2.572
	12.000 1.545
	14.000 0.893
	16.000 0.387
	16.750 0.235
	18.000 (-0.018)
	19.500 (-0.070/-1.140)
	21.000 (-0.122/-1.140)
	22.500 (-0.069/-1.140)
	23.641 (-0.038)
	24.000 (-0.015)
	24.781 0.001
	26.000 0.025
	28.000 0.114
	30.000 0.325
	32.000 0.787
	34.000 0.498
	36.000 0.561
	38.000 0.798
	40.000 0.787
	42.000 0.782

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



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.438
Distance(m)	0.000
	2.000 1.245
	6.000 2.728
	10.000 2.723
	12.000 1.545
	14.000 0.893
	16.000 0.387
	16.750 0.235
	18.000 (-0.018)
	19.500 (-0.070/-1.140)
	21.000 (-0.122/-1.140)
	22.500 (-0.069/-1.140)
	23.641 (-0.038)
	24.000 (-0.015)
	24.781 0.001
	26.000 0.025
	28.000 0.114
	30.000 0.325
	32.000 0.787
	34.000 0.498
	36.000 0.561
	38.000 0.798
	40.000 0.789
	42.000 0.815
	45.000 0.823

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

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TYPICAL CROSS SECTION OF BASABARI KHAL

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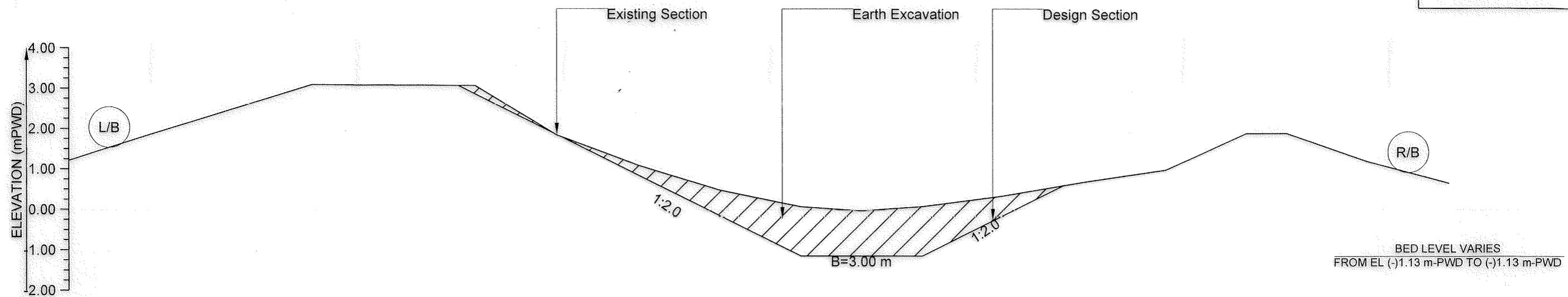
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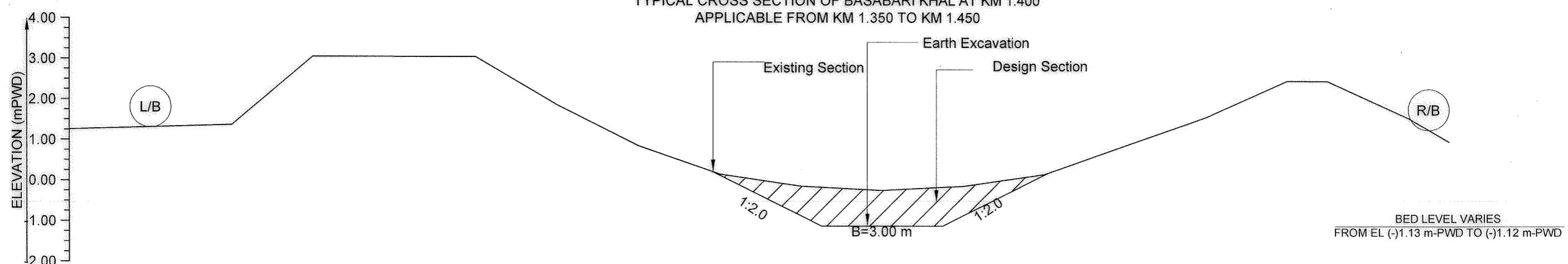
Date: 04/02/2025

Drawing No: DC5-5789-07/08



Design Bed Level in (mPWD)	1.250
Existing Bed Level in (mPWD)	2.000 1.854
Distance(m)	0.000 2.000 6.000 10.000 12.000 14.000 15.044 16.000 18.000 19.500 21.000 22.740 23.000 24.480 25.000 27.000 29.000 30.000 32.000 34.000

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



Design Bed Level in (mPWD)	1.252
Existing Bed Level in (mPWD)	4.000 1.368
Distance(m)	0.000 4.000 6.000 10.000 12.000 14.000 15.815 16.000 17.157 18.000 18.500 20.000 21.500 22.000 22.808 24.000 26.000 28.000 30.000 31.000 33.000 34.000

TYPICAL CROSS SECTION OF BASABARI KHAL AT KM 1.500
APPLICABLE FROM KM 1.450 TO KM 1.550

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