

**ROADS AND HIGHWAYS DEPARTMENT  
MINISTRY OF ROAD TRANSPORT AND BRIDGES  
THE PEOPLE'S REPUBLIC OF BANGLADESH**

**PREPARATORY SURVEY  
ON  
THE CROSS-BORDER ROAD NETWORK  
IMPROVEMENT PROJECT  
(BANGLADESH)**

**FINAL REPORT  
VOLUME 2: DRAWINGS**

**FEBRUARY 2016**

**JAPAN INTERNATIONAL COOPERATION AGENCY  
ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO., LTD.**

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<b>JR(先)</b>
<b>16-003</b>

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THE PEOPLE'S REPUBLIC OF BANGLADESH**

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**Preparatory Survey on The Cross-Border Road Network Improvement Project (Bangladesh)**

**Drawings**

**Drawing Schedule (1)**

No.	Drawing Title	Drawing No.
<b>A General</b>		
1	Project Location Map	GD-01
<b>B Package A1 (A4; Kalna Bridge)</b>		
1	Typical Cross Section	A4/TC-01
2	Plan (1) - (6)	A4/PL-01 ~ 06
3	Profile (1) - (6)	A4/PR-01 ~ 06
4	General View of Kalna Bridge	A4/GV-01
5	Superstructure of Kalna Bridge	A4/SP-01
6	Substructure of Kalna Bridge	A4/SB-01
7	Foot Protection	A4/FP-01
8	Cross Section (1) - (18)	A4/CS-01 ~ 18
<b>C Package A2</b>		
1	Typical Cross Section (1) - (2)	A/TC-01 ~ 02
<b>2 Jhikorgacha Bridge (A1; N-706_14b)</b>		
2-1	Plan	A1/PL-01
2-2	Profile	A1/PR-01
2-3	General View of Jhikorgacha Bridge	A1/GV-01
2-4	Cross Section (1) - (3)	A1/CS-01 ~ 03
<b>3 Tularampur Bridge (A2; R-750_25a)</b>		
3-1	Plan	A2/PL-01
3-2	Profile	A2/PR-01
3-3	General View of Tularampur Bridge	A2/GV-01
3-4	Cross Section (1) - (4)	A2/CS-01 ~ 04
<b>4 Hawai Khali Bridge (A3; Z-7503_5a)</b>		
4-1	Plan	A3/PL-01
4-2	Profile	A3/PR-01
4-3	General View of Hawai Khali Bridge	A3/GV-01
4-4	Cross Section (1) - (3)	A3/CS-01 ~ 03
<b>5 Garakola Bridge (A5; N-805_24a)</b>		
5-1	Plan	A5/PL-01
5-2	Profile	A5/PR-01

No.	Drawing Title	Drawing No.
5-3	General View of Garakola Bridge	A5/GV-01
5-4	Cross Section (1) - (4)	A5/CS-01 ~ 04
<b>D Package C</b>		
1	Typical Cross Section	C/TC-01
<b>2 Patiya Bridge (C8; N-1_257a)</b>		
2-1	Plan	C8/PL-01
2-2	Profile	C8/PR-01
2-3	General View of Patiya Bridge	C8/GV-01
2-4	Cross Section (1) - (4)	C8/CS-01 ~ 04
<b>3 Mazar Point Bridge (C12; N-1_272a)</b>		
3-1	Plan	C12/PL-01
3-2	Profile	C12/PR-01
3-3	General View of Mazar Point Bridge	C12/GV-01
3-4	Cross Section (1) - (3)	C12/CS-01 ~ 03
<b>4 Sangu Bridge (C13; N-1_279a)</b>		
4-1	Plan (1) - (2)	C13/PL-01 ~ 02
4-2	Profile (1) - (2)	C13/PR-01 ~ 02
4-3	General View of Sangu Bridge	C13/GV-01
4-4	Cross Section (1) - (4)	C13/CS-01 ~ 04
<b>5 Mathamuhuri Bridge (C26; N-1_328a)</b>		
5-1	Plan (1) - (2)	C26/PL-01 ~ 02
5-2	Profile (1) - (2)	C26/PR-01 ~ 02
5-3	General View of Mathamuhuri Bridge	C26/GV-01
5-4	Cross Section (1) - (5)	C26/CS-01 ~ 05
<b>E Package B in Initial Stage (Target Project)</b>		
1	Typical Cross Section	B/TC-01
<b>2 Telipool Bridge (B2; R-151_4a)</b>		
2-1	Plan	B2/PL-01
2-2	Profile	B2/PR-01
2-3	General View of Telipool Bridge	B2/GV-01
2-4	Cross Section (1) - (2)	B2/CS-01 ~ 02

**Preparatory Survey on The Cross-Border Road Network Improvement Project (Bangladesh)**

**Drawings**

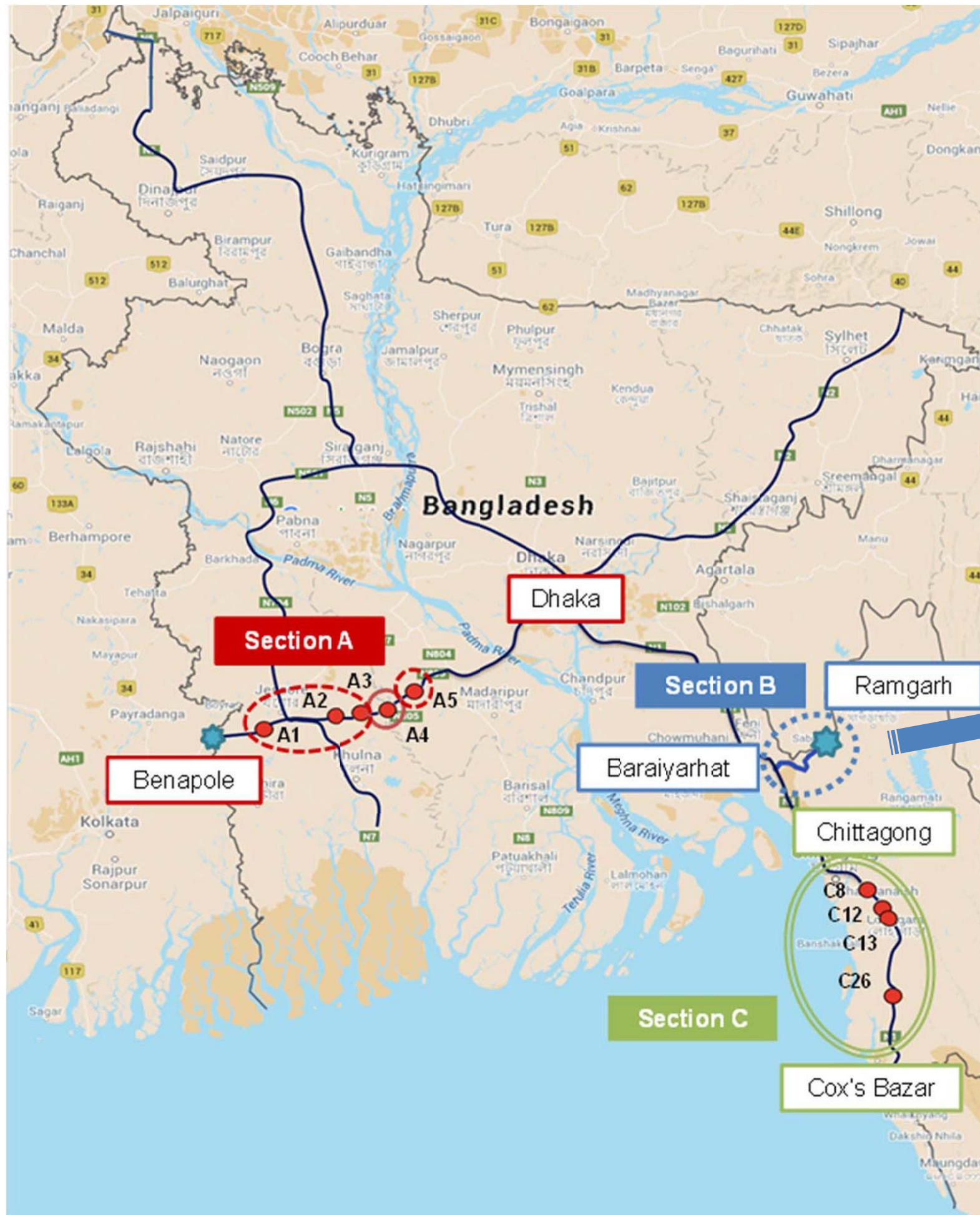
**Drawing Schedule (2)**

No.	Drawing Title	Drawing No.
3	Lakshmi Chara Bridge (B3; R-151_4c)	
3-1	Plan	B3/PL-01
3-2	Profile	B3/PR-01
3-3	General View of Lakshmi Chara Bridge	B3/GV-01
3-4	Cross Section (1) - (2)	B3/CS-01 ~ 02
4	Kalapani Bridge-2 (B9; R-151_14a)	
4-1	Plan	B9/PL-01
4-2	Profile	B9/PR-01
4-3	General View of Kalapani Bridge	B9/GV-01
4-4	Cross Section (1) - (2)	B9/CS-01 ~ 02
5	Koilabazar Bridge (B12; R-151_16a)	
5-1	Plan	B12/PL-01
5-2	Profile	B12/PR-01
5-3	General View of Koilabazar Bridge	B12/GV-01
5-4	Cross Section (1) - (2)	B12/CS-01 ~ 02
6	Balutila Bridge (R-151_16c)	
6-1	Plan	B13/PL-01
6-2	Profile	B13/PR-01
6-3	General View of Balutila Bridge	B13/GV-01
6-4	Cross Section (1) - (2)	B13/CS-01 ~ 02
7	Heako Bridge (R-152_Sa)	
7-1	Plan	B16/PL-01
7-2	Profile	B16/PR-01
7-3	General View of Heako Bridge	B16/GV-01
7-4	Cross Section (1)	B16/CS-01
8	Chikon Chara Bridge (B18; R-152_7a)	
8-1	Plan	B18/PL-01
8-2	Profile	B18/PR-01
8-3	General View of Chikon Chara Bridge	B18/GV-01
8-4	Cross Section (1) - (2)	B18/CS-01 ~ 02

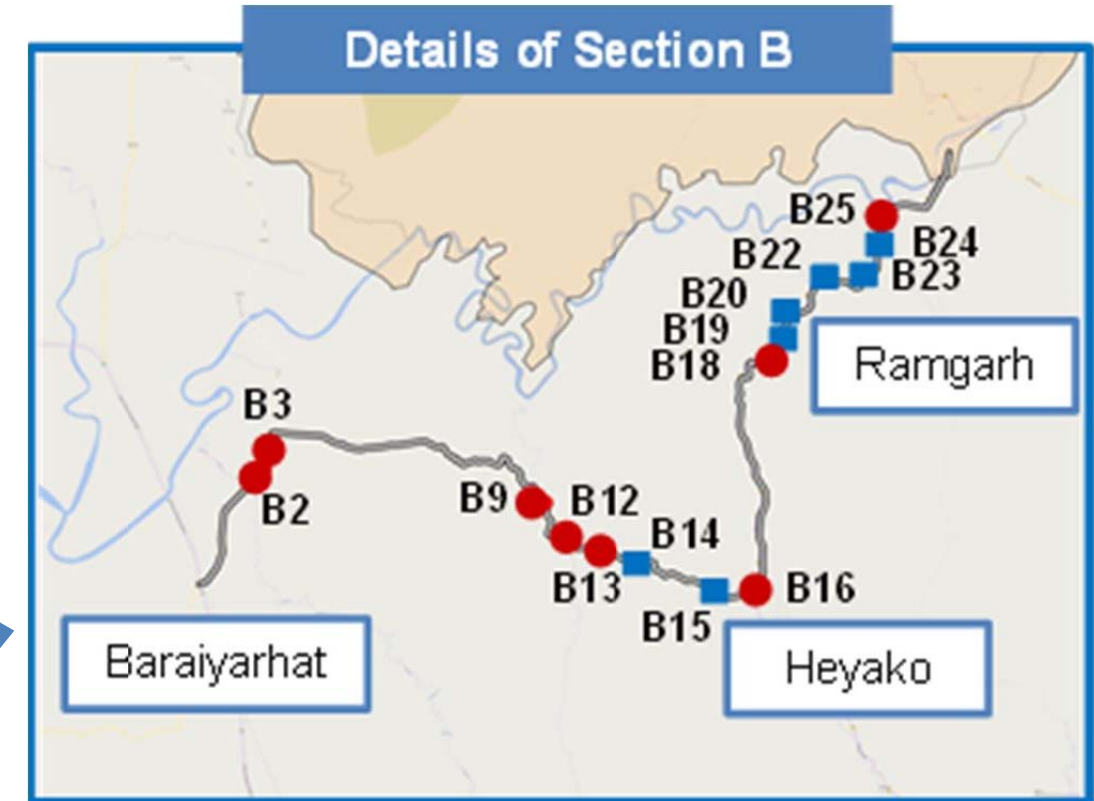
No.	Drawing Title	Drawing No.
9	East Baganbazar Bridge (B25; R-152_14a)	
9-1	Plan	B25/PL-01
9-2	Profile	B25/PR-01
9-3	General View of East Baganbazar Bridge	B25/GV-01
9-4	Cross Section (1) - (2)	B25/CS-01 ~ 02
10	Box Culverts	
10-1	General View of Box Culvert (2@H3.0xB3.0)	BC1/GV-01
10-2	General View of Box Culvert (H3.0xB3.0)	BC2/GV-01
10-3	General View of Box Culvert (H2.0xB2.0)	BC3/GV-01
F	Package B in Completion Stage	
1	Plan (1) - (43)	B/PL-01 ~ 43
2	Profile (1) - (43)	B/PR-01 ~ 43
3	Cross Section (1) - (63)	B/CS-01 ~ 63
G	Package B in Future Stage	
1	Purbo Hinguli Bridge (B1; R-151_3a)	
1-1	Plan (1) - (2)	B1/PL-01 ~ 02
1-2	Profile (1) - (2)	B1/PR-01 ~ 02
1-3	General View of Purbo Hinguli Bridge	B1/GV-01
1-4	Cross Section (1) - (2)	B1/CS-01 ~ 02
2	Borobil Bridge (B21; R-152_10a)	
2-1	Plan (1) - (2)	B21/PL-01 ~ 02
2-2	Profile (1) - (2)	B21/PR-01 ~ 02
2-3	General View of Borobil Bridge	B21/GV-01
2-4	Cross Section (1) - (3)	B21/CS-01 ~ 03



## **A. General**



**PROJECT LOCATION MAP**



**Legend**

- Bridge
- Box Culvert
- ★ Axle Load Control Station
- Package A1
- Package A2
- Package B
- Package C

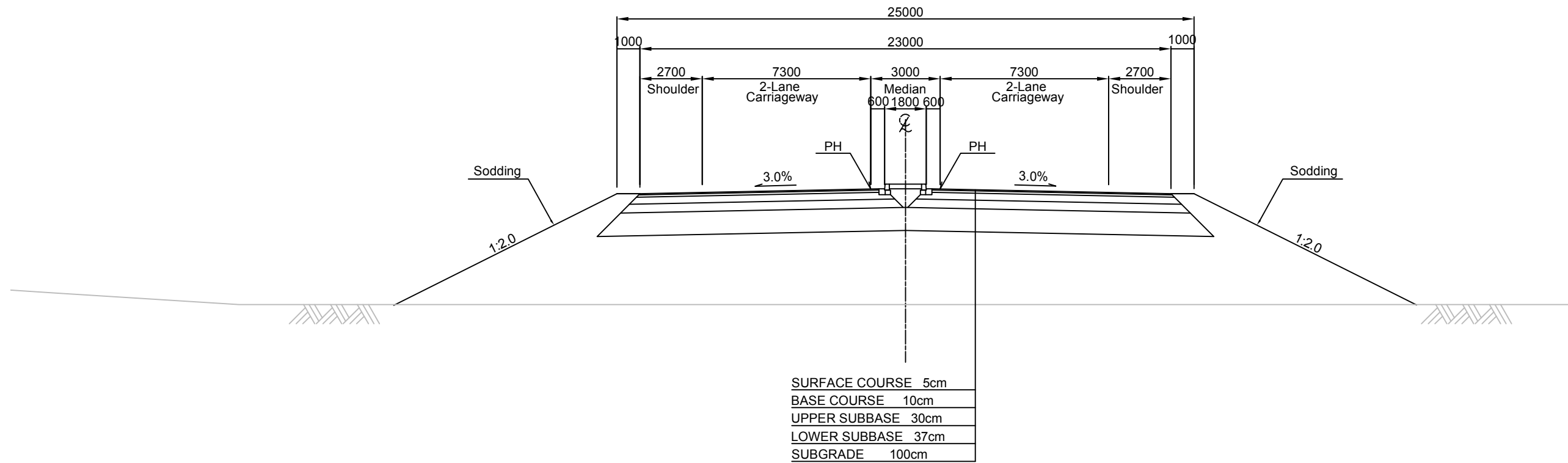
No	REVISION	DATE

## **B. Package A1 (Kalna Bridge)**

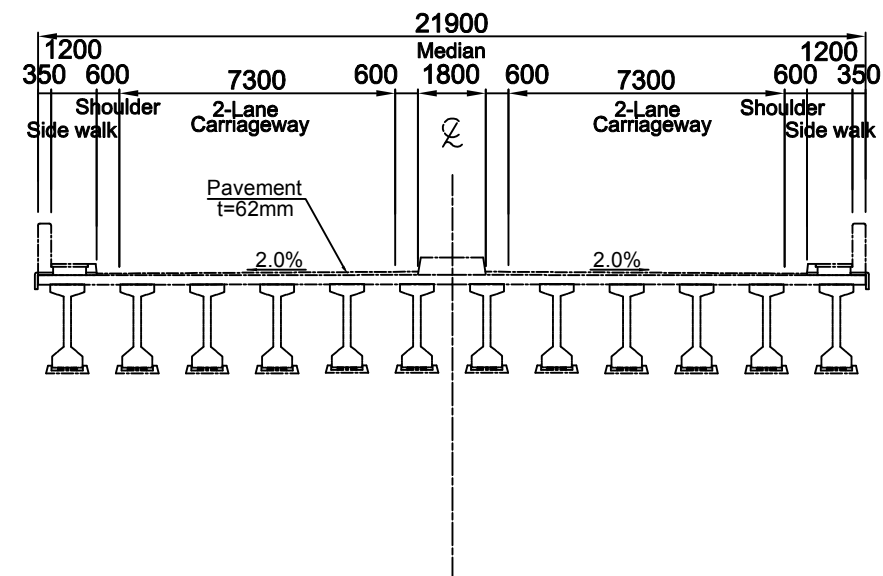
# TYPICAL CROSS SECTION

Scale 1:200

## Embankment Section



## Bridge Section



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PADECO CO.,LTD



No	REVISION	DATE
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PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Typical Cross Section  
KALNA BRIDGE (N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/TC-01

# PLAN ( 1 )

Scale 1:2500

Taper Section (Median) L=75.0m    Taper Section (Lane) L=180.0m    Parallel Section L=70.0m

BP  
STA 0+190.931  
E-774950  
N-2567800

A-1  
STA 0+515.931

M.L  
STA 0+760

E-774950  
N-2567800

E-774450  
N-2567550

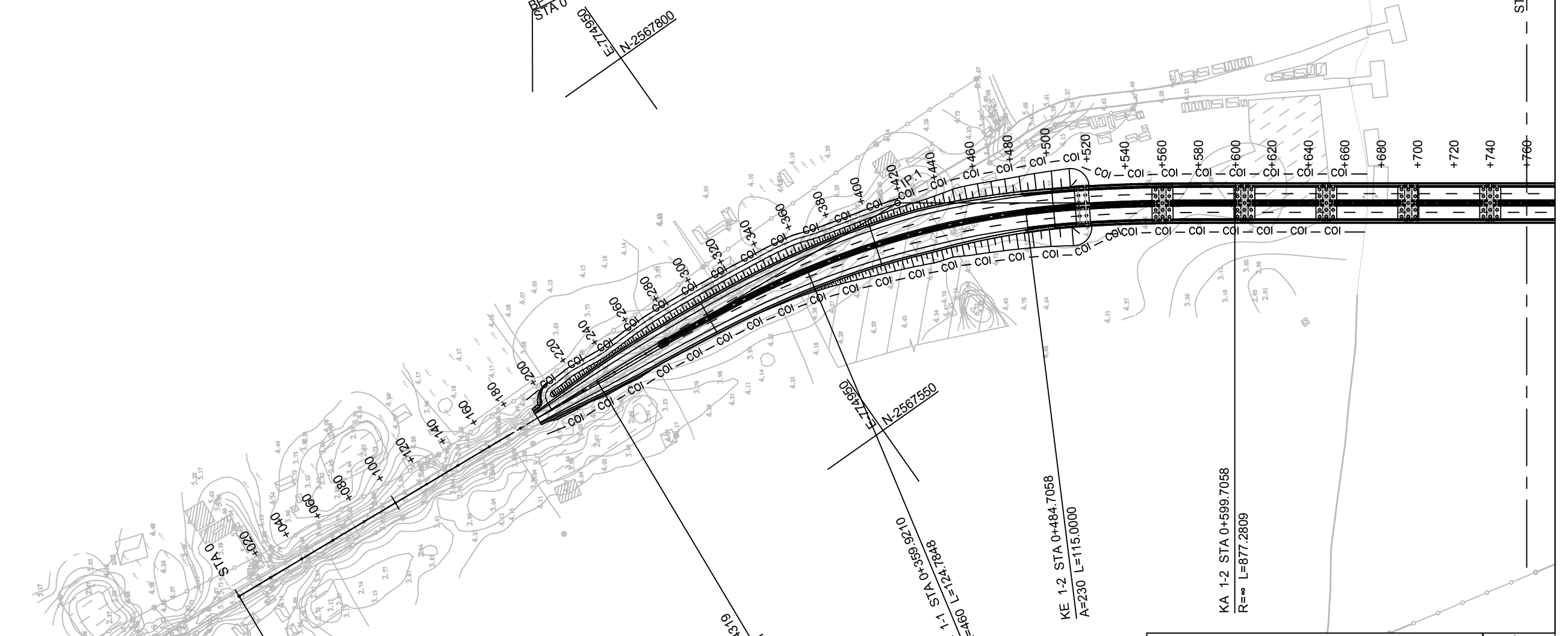
STA 0+000.000  
R=∞ L=229.4319

KA 1-1 STA 0+229.4319  
A=245 L=130.4891

KE 1-1 STA 0+359.9210  
R=460 L=124.7848

KE 1-2 STA 0+484.7058  
A=230 L=115.0000

KA 1-2 STA 0+599.7058  
R=∞ L=877.2809



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PADECO CO.,LTD.

No	REVISION	DATE

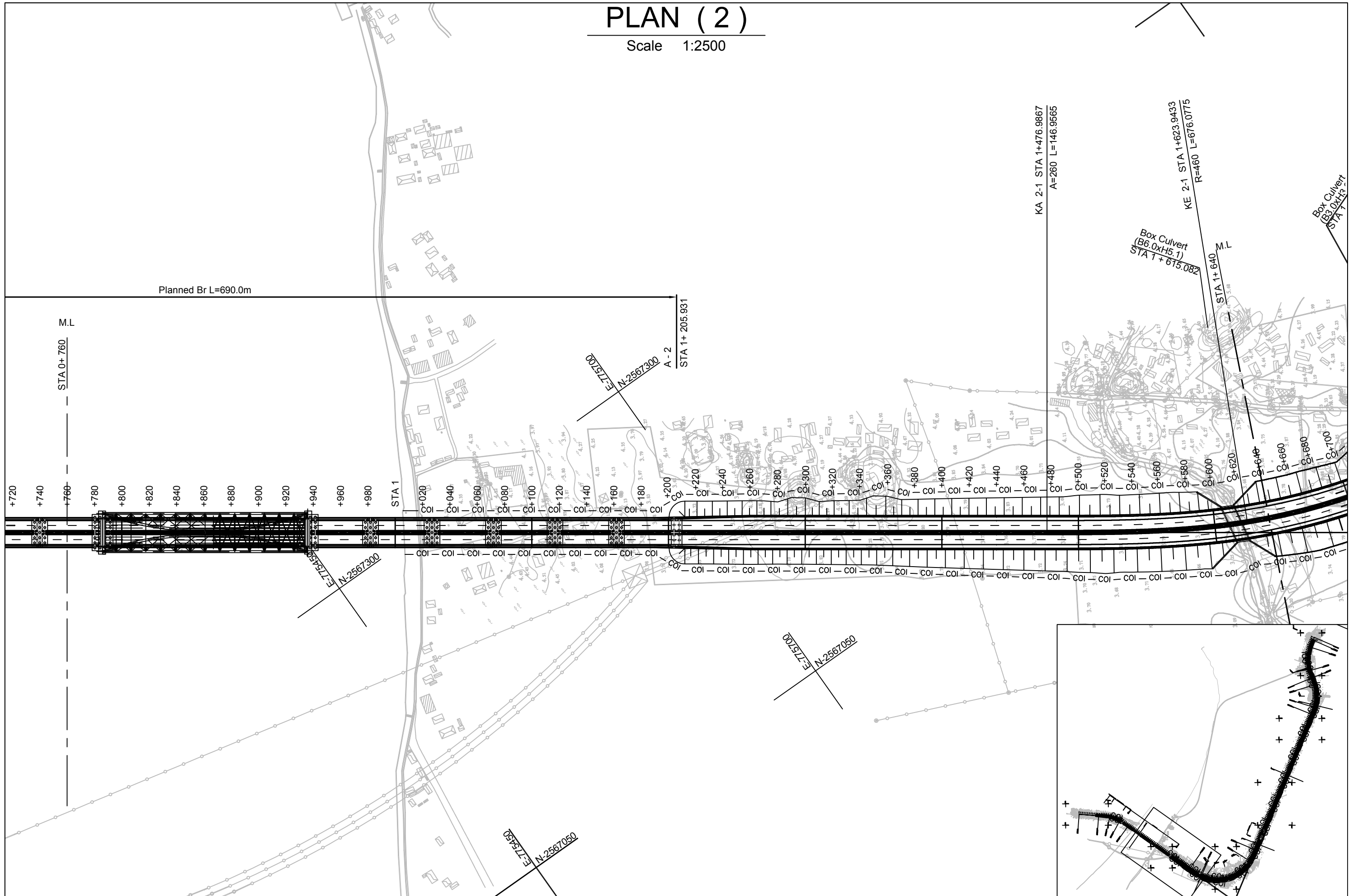
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
  
PLAN ( 1 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PL-01



# PLAN ( 2 )

Scale 1:2500



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JICA JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. PADECO  
PADECO CO.,LTD

No	REVISION	DATE

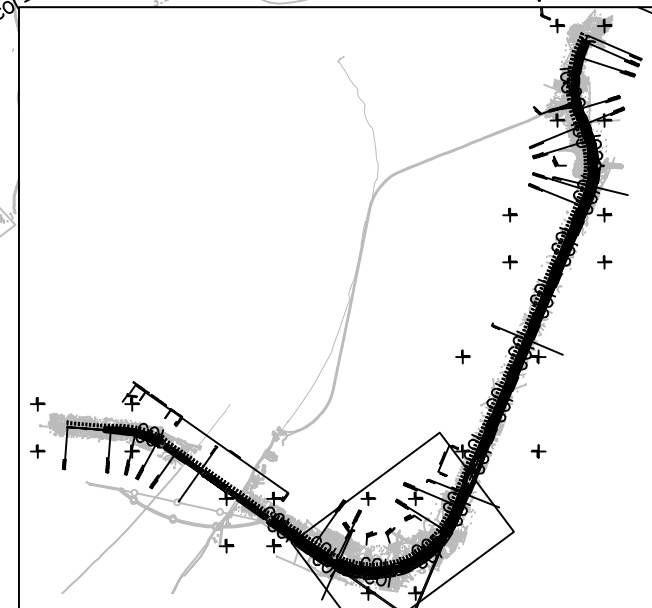
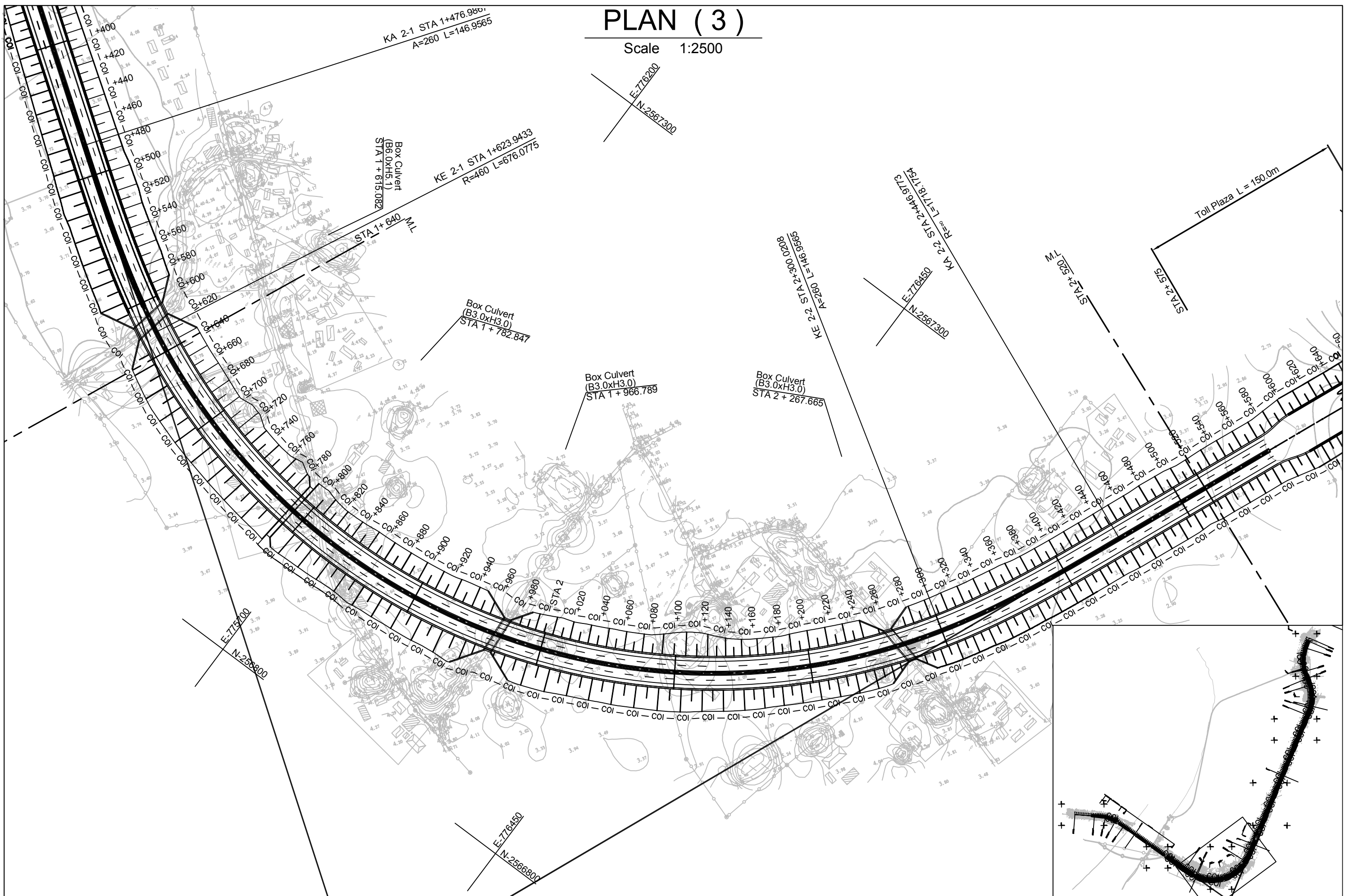
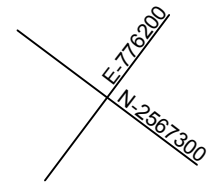
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PLAN ( 2 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PL-02

# PLAN ( 3 )

Scale 1:2500



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PADECO CO.,LTD

No	REVISION	DATE

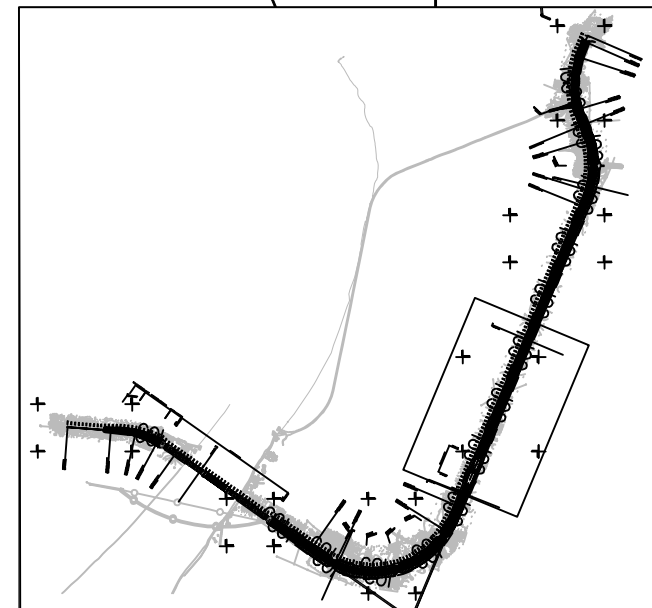
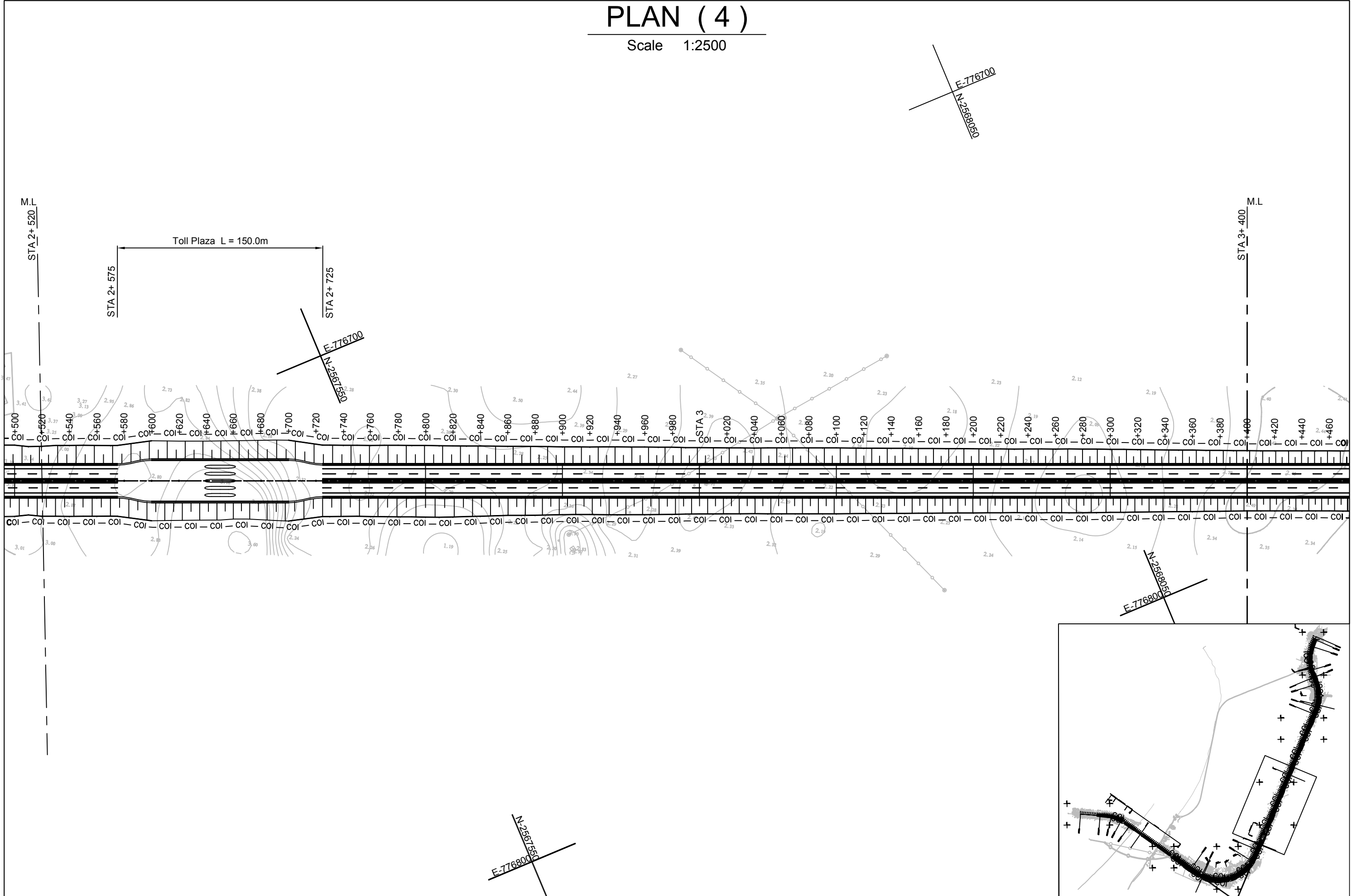
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)


PLAN ( 3 )  
KALNA BRIDGE (A4;N-806)




DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PL-03

# PLAN ( 4 )

Scale 1:2500




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**PADECO CO.,LTD**

No	REVISION	DATE

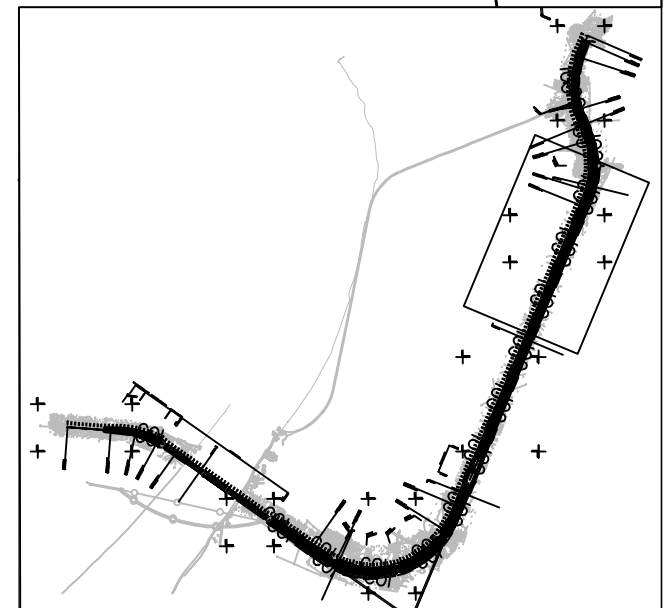
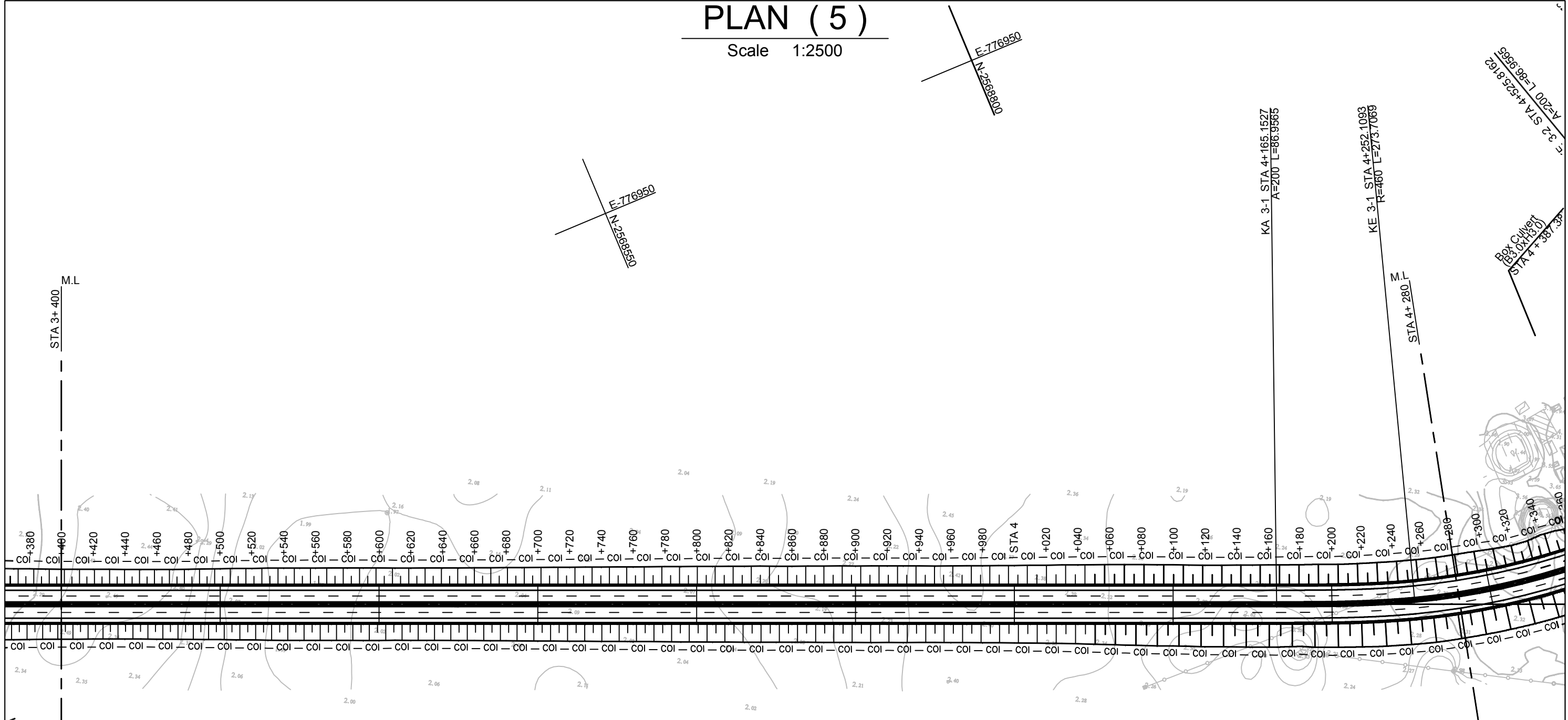
PREPARATORY SURVEY ON THE CROSS-BORDER  
 ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
 PLAN ( 4 )  
 KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PL-04



# PLAN ( 5 )

Scale 1:2500



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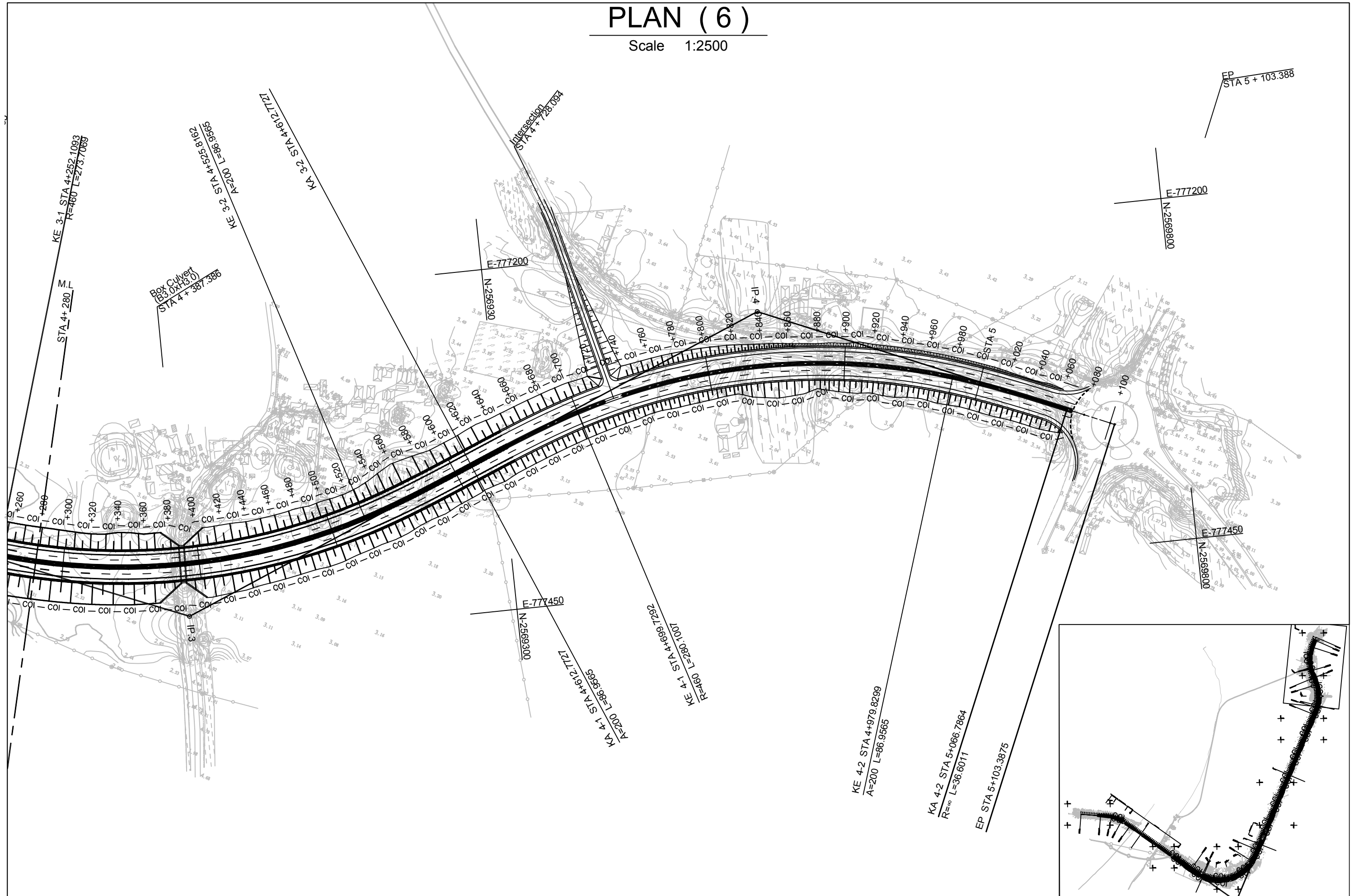
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PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
PLAN ( 5 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:  
CHECKED BY:  
APPROVED BY:  
DWG. NO. A4/PL-05

# PLAN ( 6 )

Scale 1:2500



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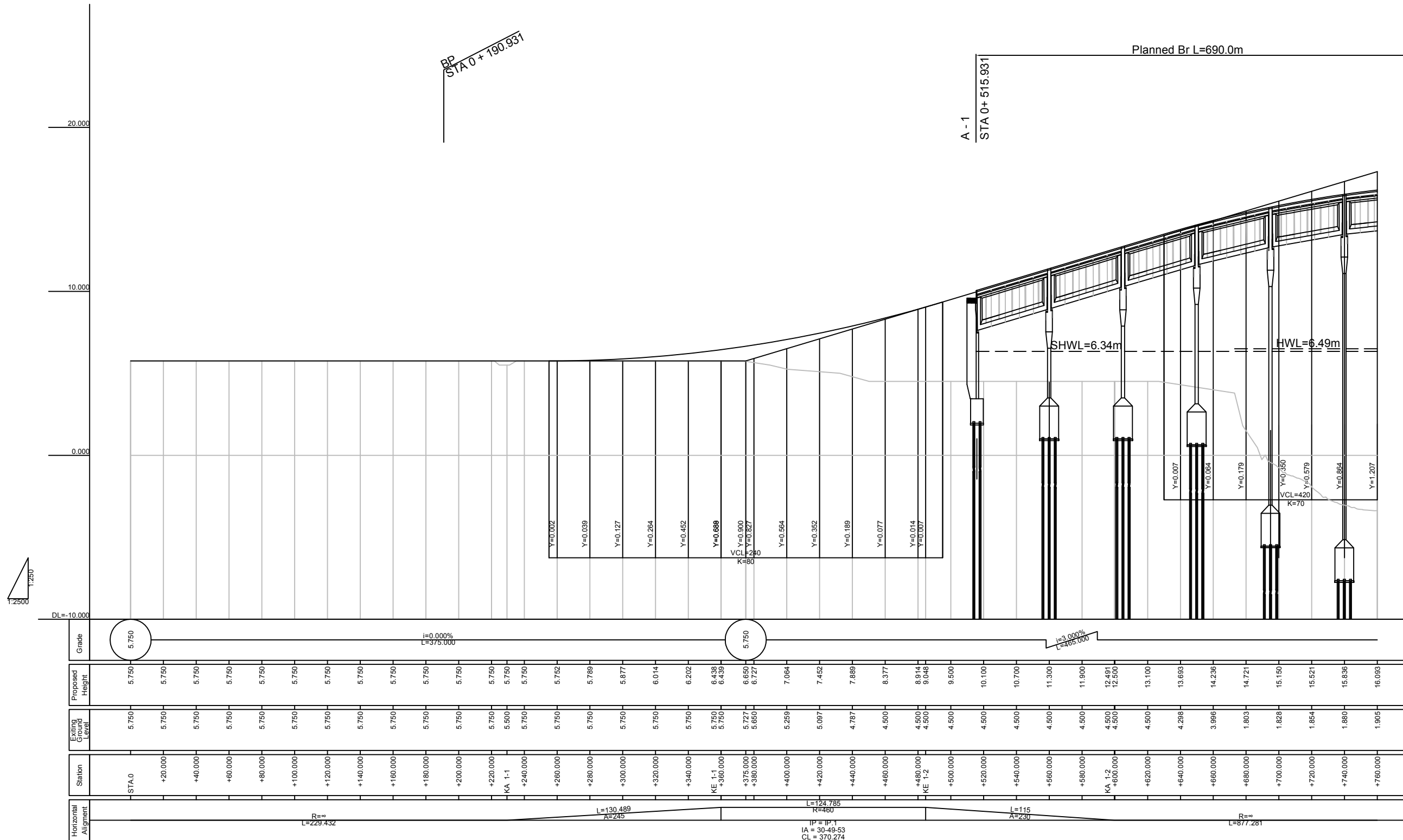
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PLAN ( 6 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PL-06

# PROFILE ( 1 )

Scale H 1:2500  
V 1:250



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No	REVISION	DATE

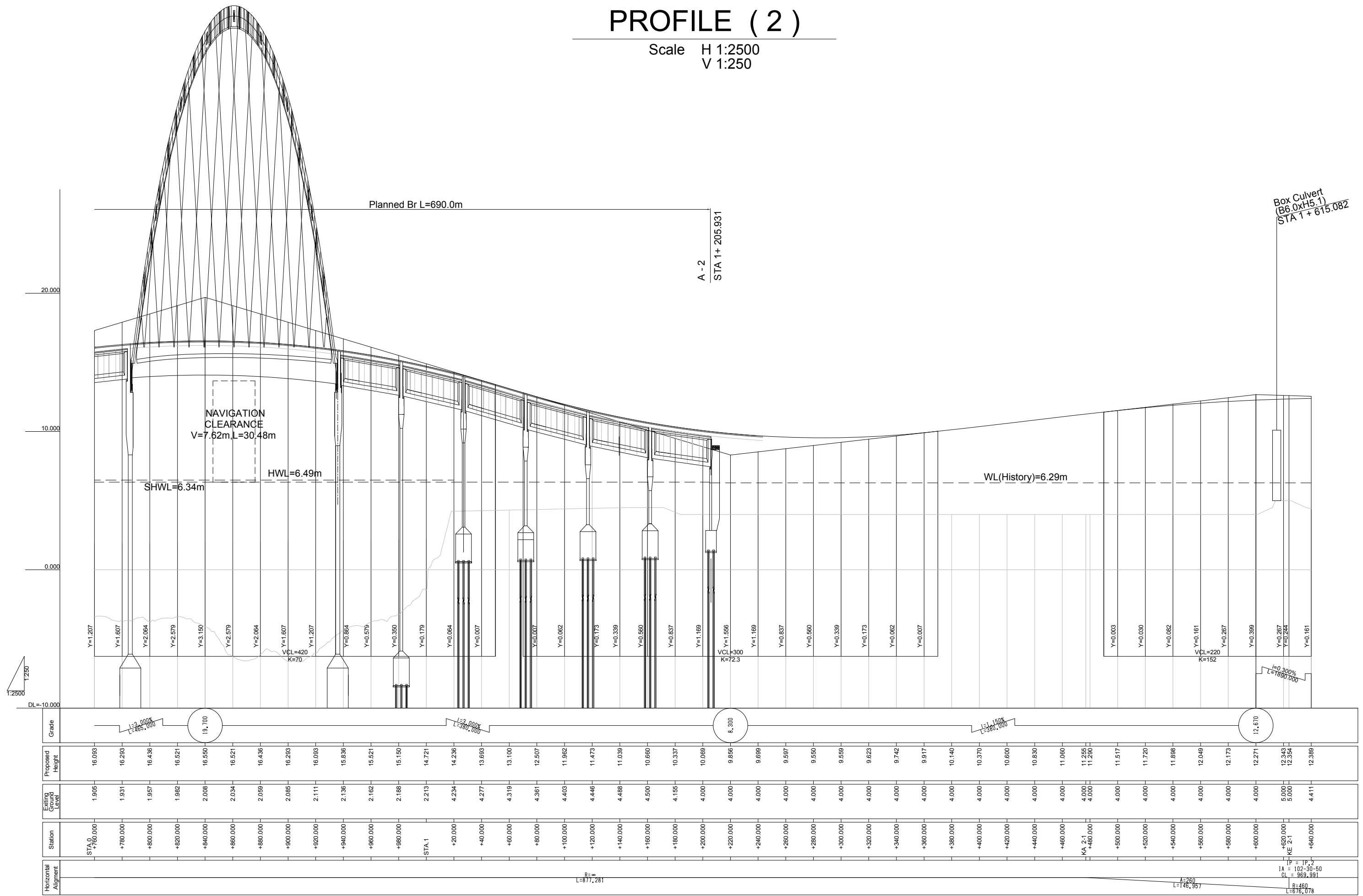
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PROFILE ( 1 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PR-01

# PROFILE ( 2 )

Scale H 1:2500  
V 1:250



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No	REVISION	DATE

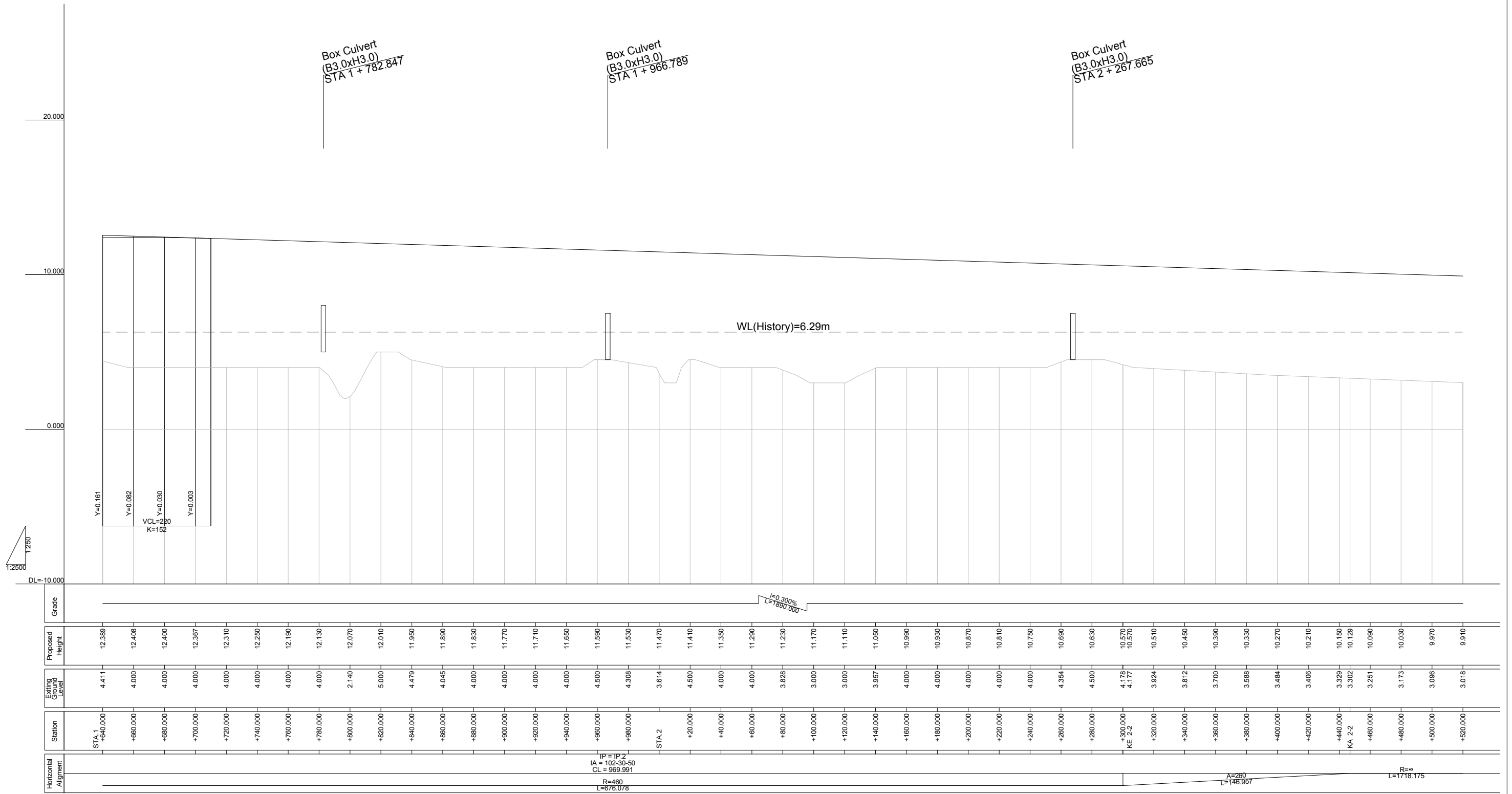
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PROFILE ( 2 )  
KALNA BRIDGE (A4 ; N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PR-02

# PROFILE ( 3 )

Scale H 1:2500  
V 1:250



Station	Existing Ground Level	Proposed Height	Grade
STA 1 + 640.000	4.411	12.368	
+660.000	4.000	12.408	
+680.000	4.000	12.400	
+700.000	4.000	12.367	
+720.000	4.000	12.310	
+740.000	4.000	12.250	
+760.000	4.000	12.190	
+780.000	4.000	12.130	
+800.000	2.140	12.070	
+820.000	5.000	12.010	
+840.000	4.479	11.950	
+860.000	4.045	11.890	
+880.000	4.000	11.830	
+900.000	4.000	11.770	
+920.000	4.000	11.710	
+940.000	4.000	11.650	
+960.000	4.500	11.590	
+980.000	4.308	11.530	
STA 2 + 000.000	3.614	11.470	
+20.000	4.500	11.410	
+40.000	4.000	11.350	
+60.000	4.000	11.290	
+80.000	3.828	11.230	
+100.000	3.000	11.170	
+120.000	3.000	11.110	
+140.000	3.957	11.050	
+160.000	4.000	10.990	
+180.000	4.000	10.930	
+200.000	4.000	10.870	
+220.000	4.000	10.810	
+240.000	4.000	10.750	
+260.000	4.354	10.690	
+280.000	4.500	10.630	
+300.000	4.178	10.570	
+320.000	4.177	10.510	
+340.000	3.924	10.450	
+360.000	3.812	10.390	
+380.000	3.700	10.330	
+400.000	3.588	10.270	
+420.000	3.484	10.210	
+440.000	3.406	10.150	
+460.000	3.329	10.090	
KA 2 + 000.000	3.302	10.030	
+480.000	3.251	9.970	
+500.000	3.173	9.910	
+520.000	3.096	9.850	
+540.000	3.018	9.790	



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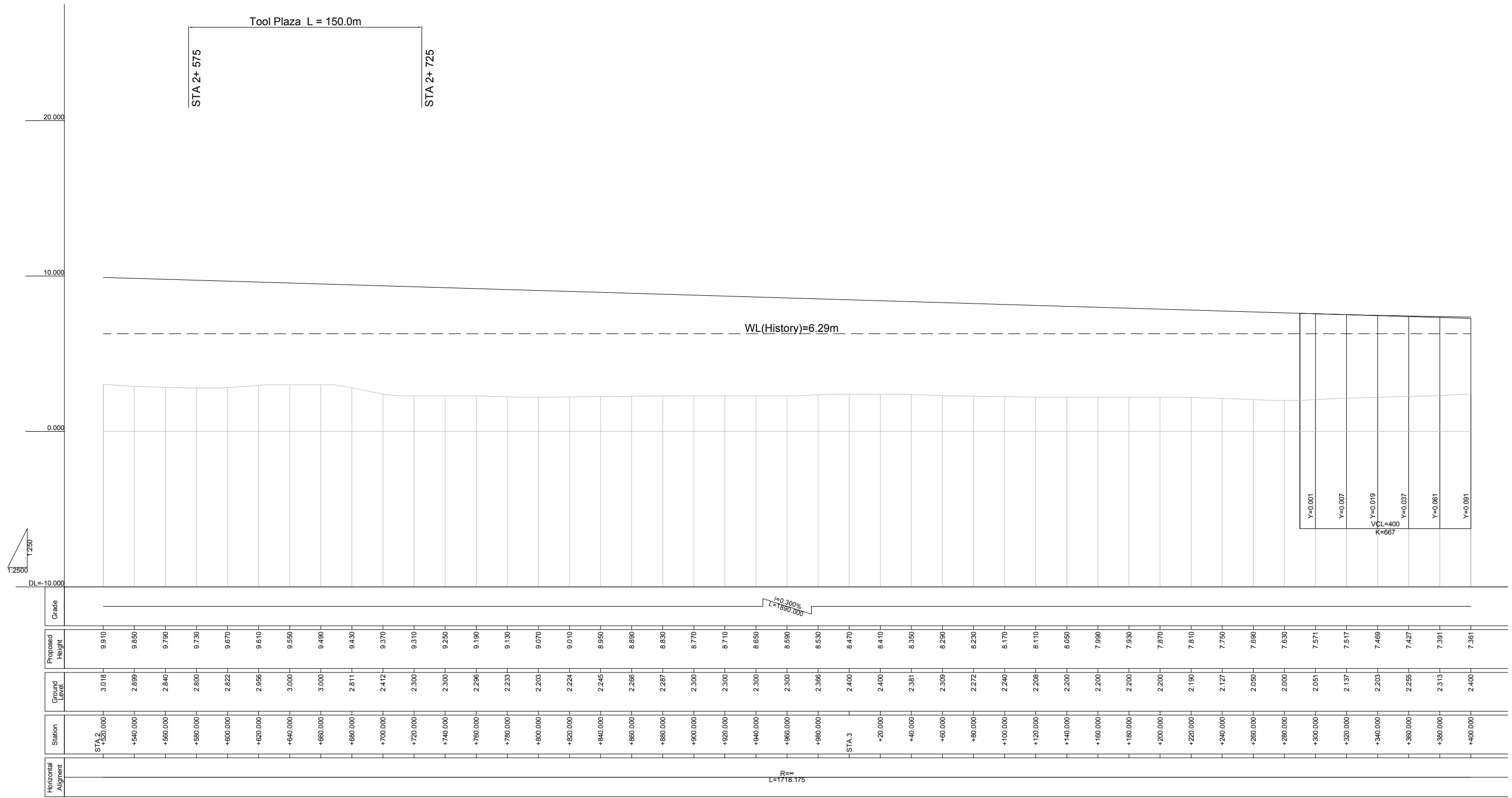
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PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
**PROFILE ( 3 )**  
KALNA BRIDGE (A4 ; N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PR-03

# PROFILE ( 4 )

Scale H 1:2500  
V 1:250



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PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



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No REVISION DATE

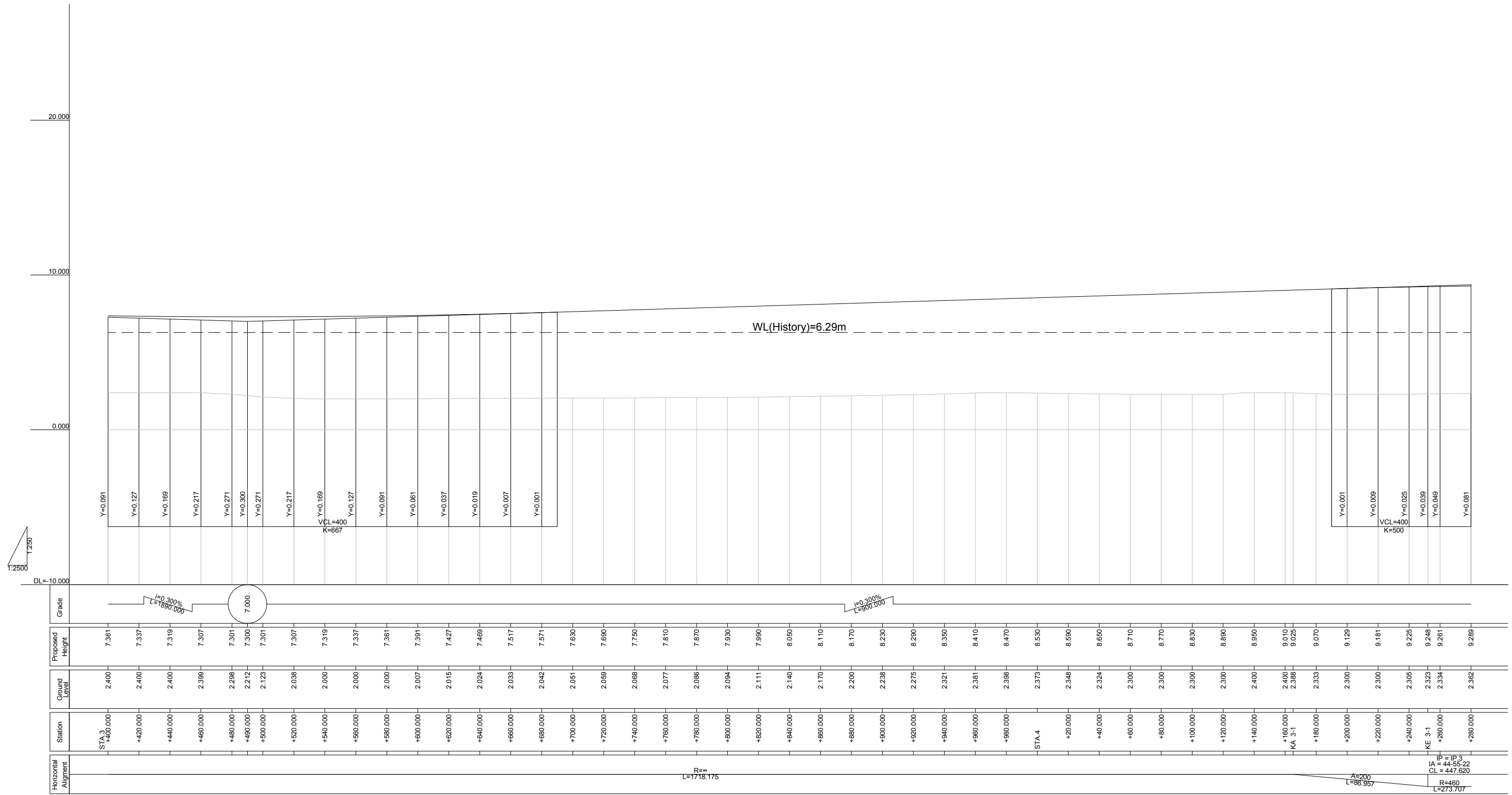
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PROFILE ( 4 )  
KALNA BRIDGE (A4:N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PR-04

# PROFILE ( 5 )

Scale H 1:2500  
V 1:250



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No REVISION DATE

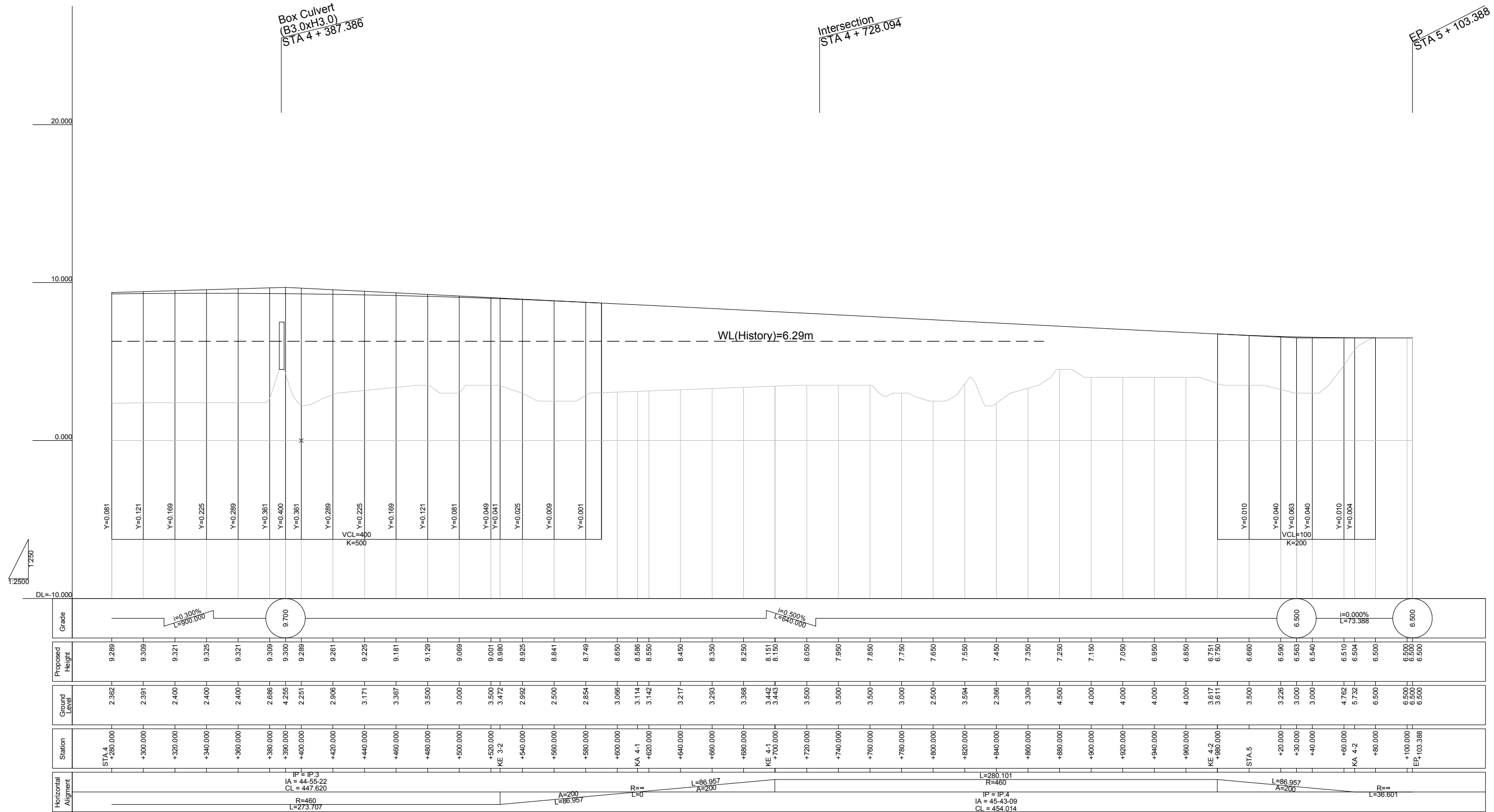
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PROFILE ( 5 )  
KALNA BRIDGE (A4:N-806)

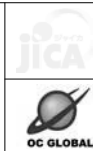
DESIGNED BY:  
CHECKED BY:  
APPROVED BY:  
DWG. NO. A4/PR-05

# PROFILE ( 6 )

Scale H 1:2500  
V 1:250



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PROFILE ( 6 )  
KALNA BRIDGE (A4 ; N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/PR-06

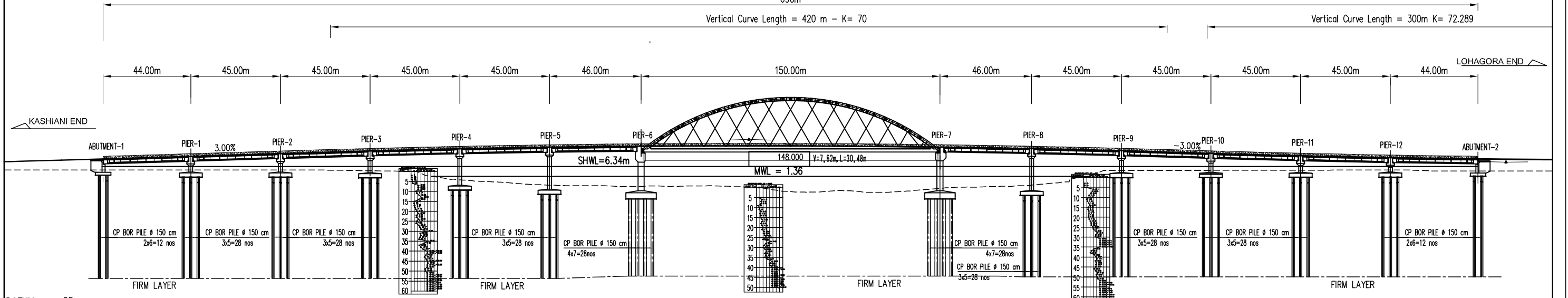


# GENERAL VIEW OF KALNA BRIDGE

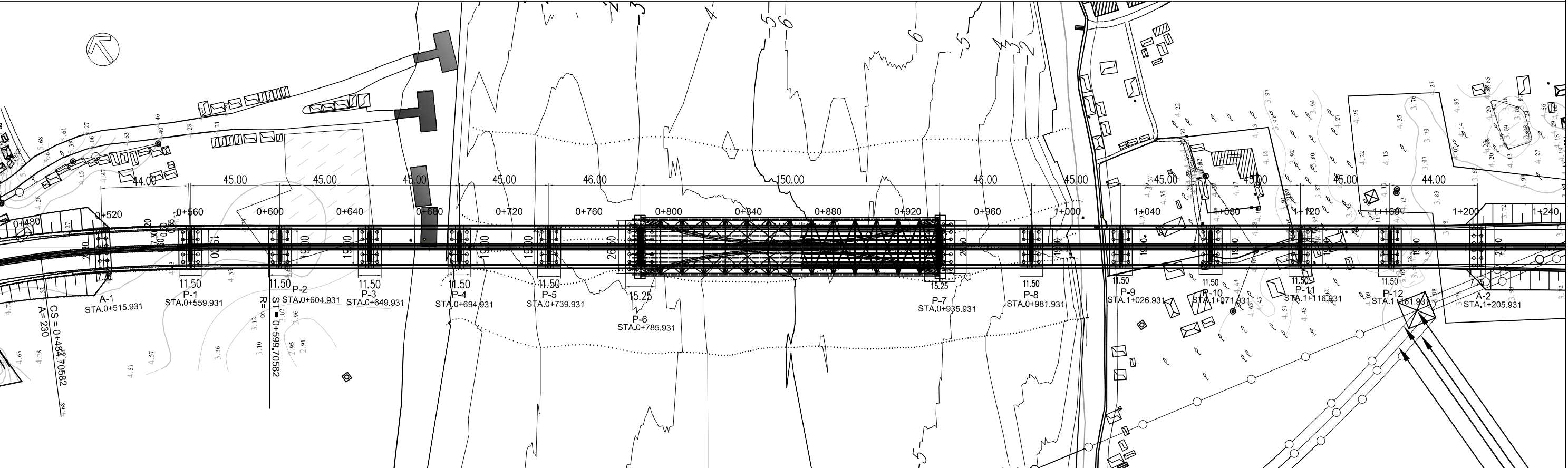
SCALE 1:2000  
690m

Vertical Curve Length = 420 m - K= 70

Vertical Curve Length = 300m K= 72.289



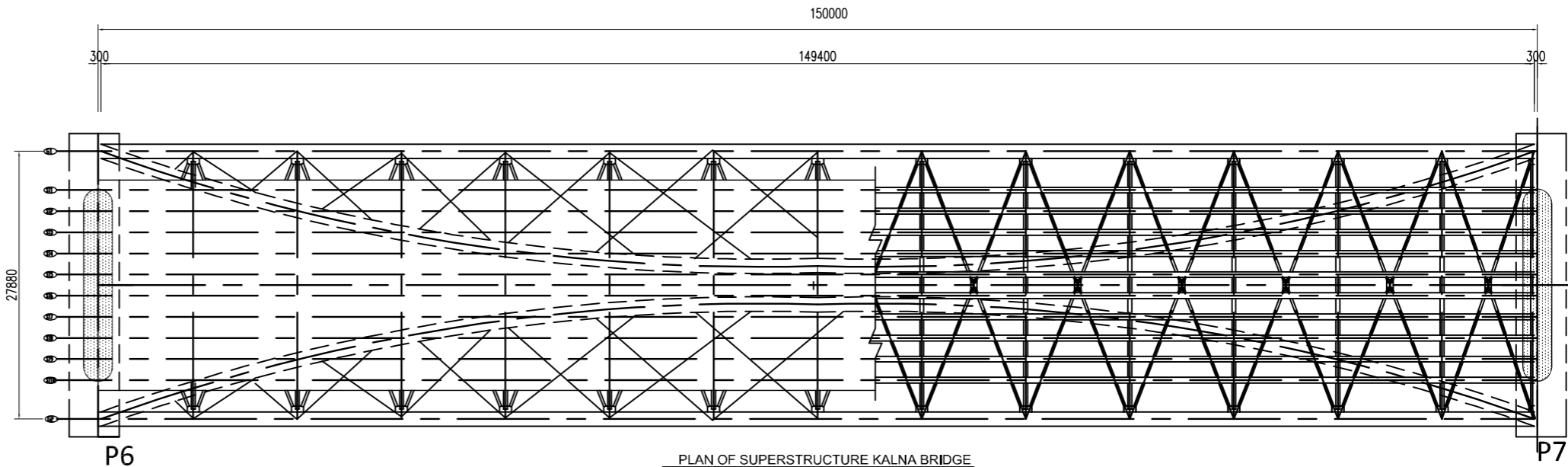
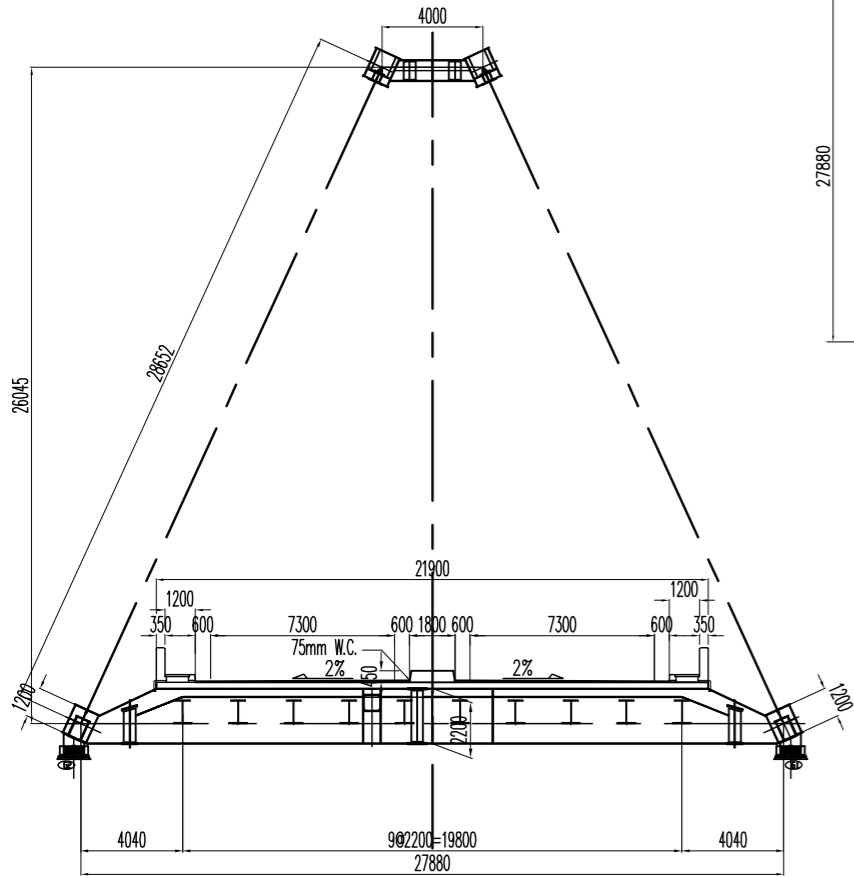
DATUM : -65																
SETTING OUT	A1	P1	P2	P3	P4	P5	P6		P7	P8	P9	P10	P11	P12	A2	
GRADIENT	g= + 3.00%						PVI STA. 0+840 PVI ELEV= 19.700 VCL = 420			g=-3.00%			PVI STA. 1+220 PVI ELEV= 8.300 VCL = 300			
CURVE BAND	A=230.000 0 + 599.70582 ST						R= ∞									
SUPER-ELEVATION	+2.0% LEFT 35m -2.0% Right						-2.0% LEFT/RIGHT			-2.0% LEFT/RIGHT						
FINISHED ROAD LEVEL (FG)	9.978	11.298	12.648	13.970	15.047	15.835	16.341		15.883	15.111	14.054	12.742	11.544	10.627	10.000	9.699
EXIST. GROUND LEVEL (EG)	4.50	4.50	4.50	4.5	-0.44	-2.04	-3.67		-4.66	-3.08	4.22	4.34	4.44	4.50	4.00	4.00
STATION	0+515.931	0+559.931	0+604.931	0+649.931	0+694.931	0+739.931	0+785.931		0+935.931	0+981.931	1+026.931	1+071.931	1+116.931	1+161.931	1+205.931	1+240



<b>MINISTRY OF ROAD, TRANSPORT AND BRIDGES (MRTB)</b> PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT (RHD)	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b>	<b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b> <b>PADECO CO., LTD</b>	<b>PADECO CO., LTD.</b>			<b>PREPARATORY SURVEY ON BANGLADESH THE CROSS-BORDER ROAD NETWORK IMPROVEMENT PROJECT</b>	DESIGNED BY:	
				No	REVISION		DATE	CHECKED BY:
General View of Kalna Bridge							APPROVED BY:	
							DWG. NO.	A4/GV-01

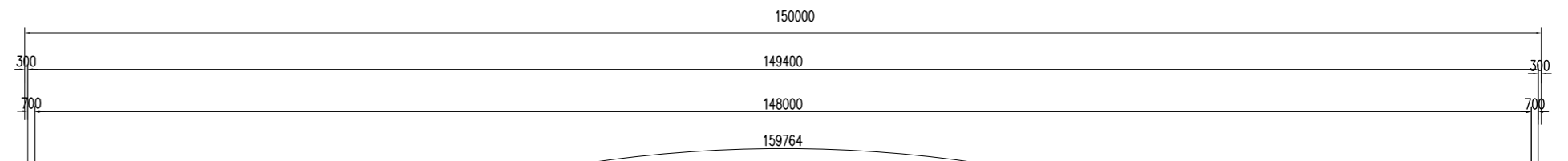
TYPICAL SECTION OF KALNA BRIDGE

SCALE 1:300



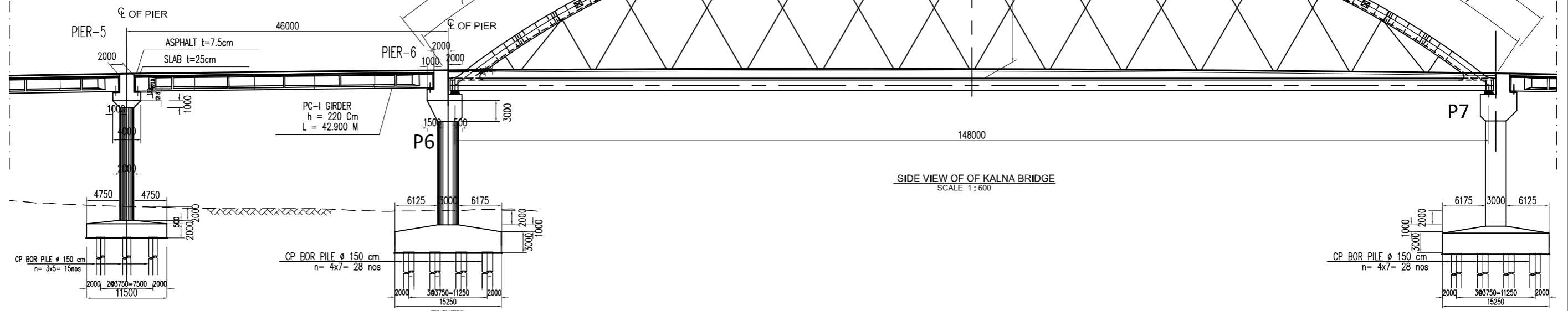
PLAN OF SUPERSTRUCTURE KALNA BRIDGE

SCALE 1:600



SIDE VIEW OF OF KALNA BRIDGE

SCALE 1:600



MINISTRY OF ROAD, TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)



JICA JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO., LTD

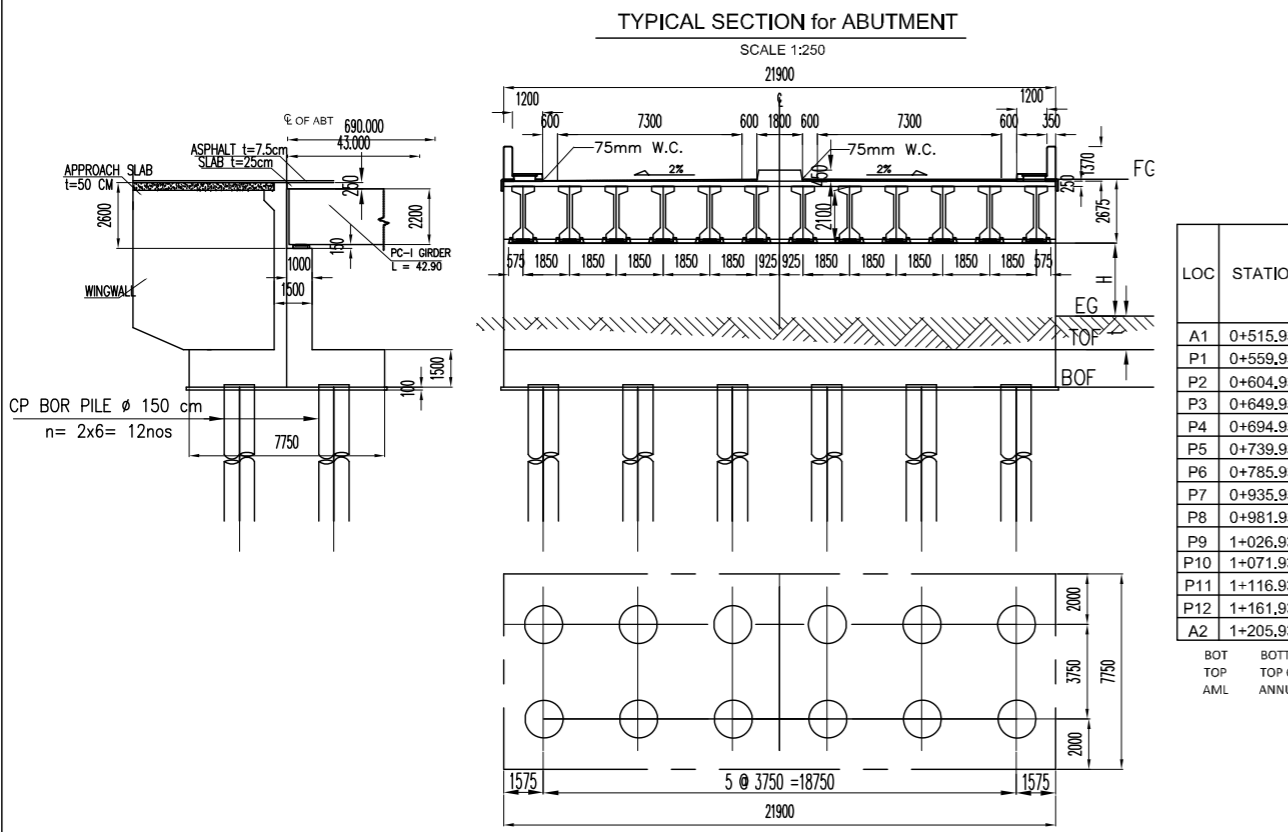
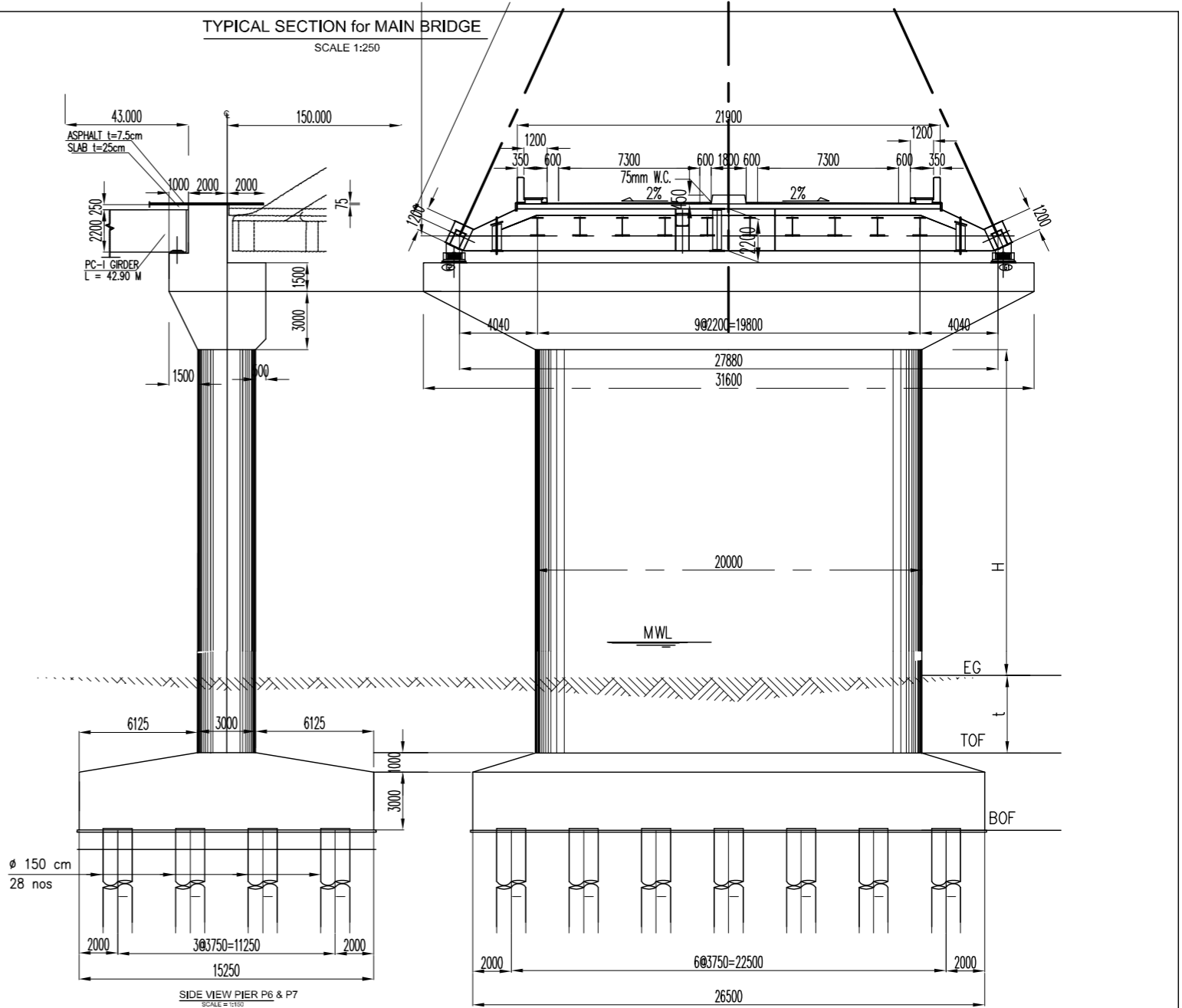
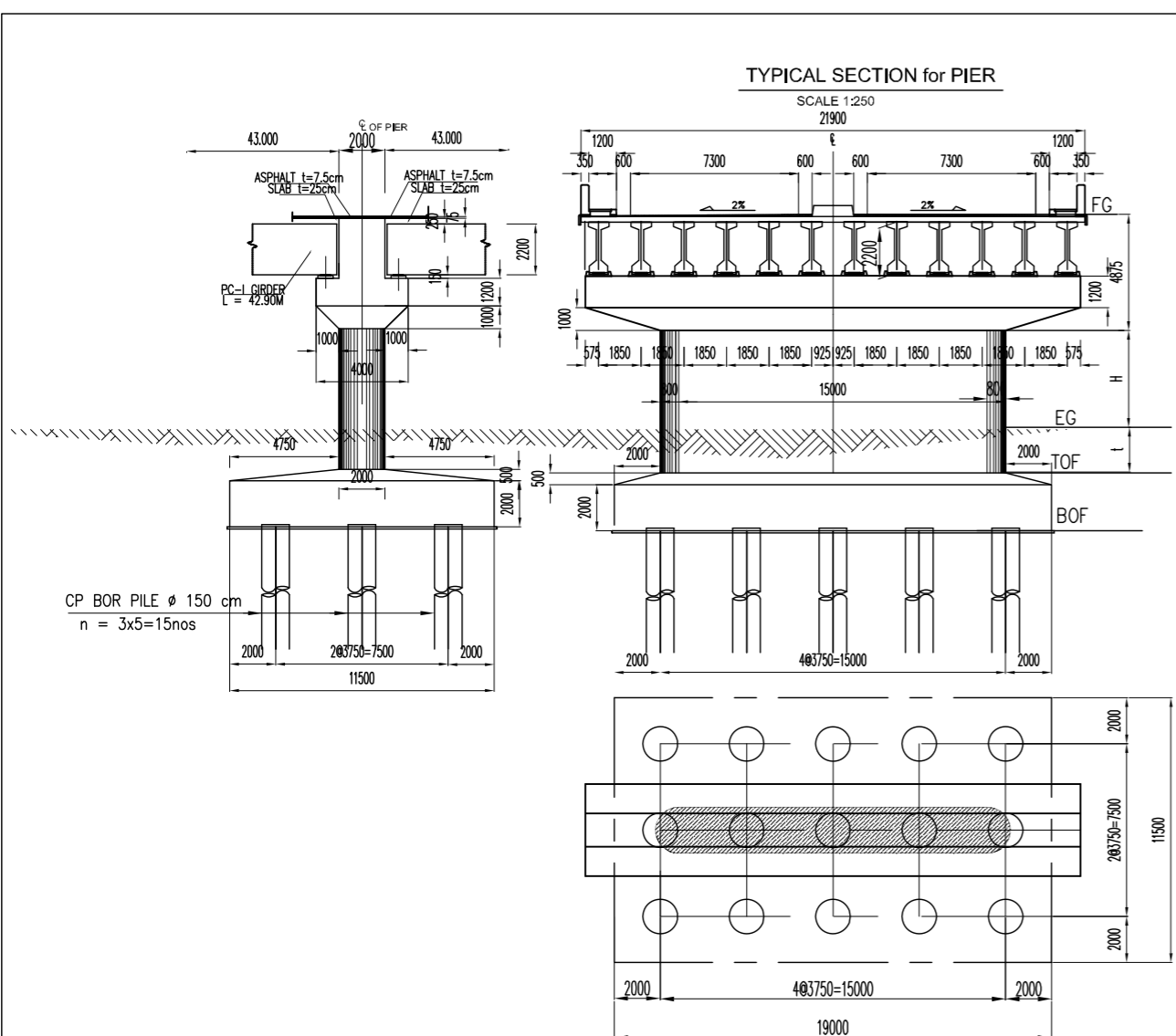


No	REVISION	DATE

PREPARATORY SURVEY ON BANGLADESH THE CROSS -  
BORDER ROAD NETWORK IMPROVEMENT PROJECT

SUPER STRUCTURE OF KALNA BRIDGE

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/SP-01

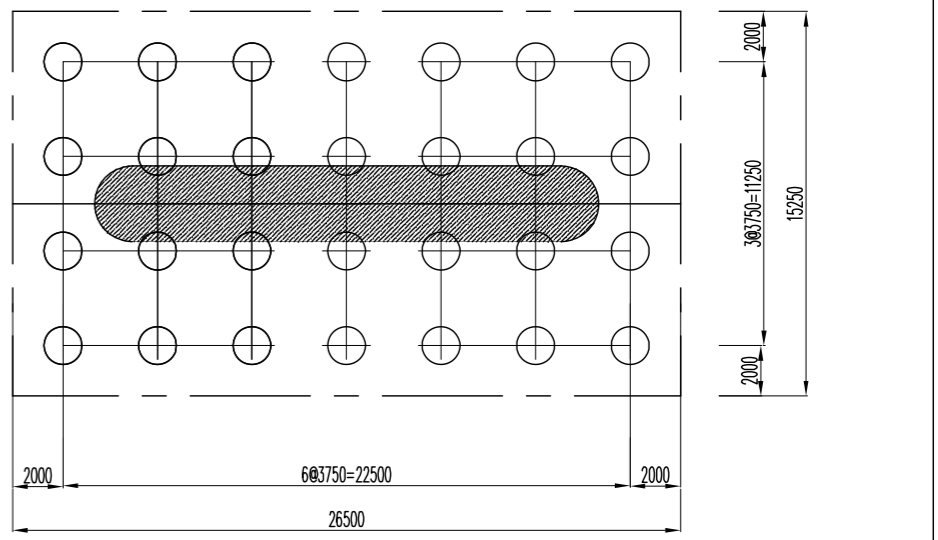


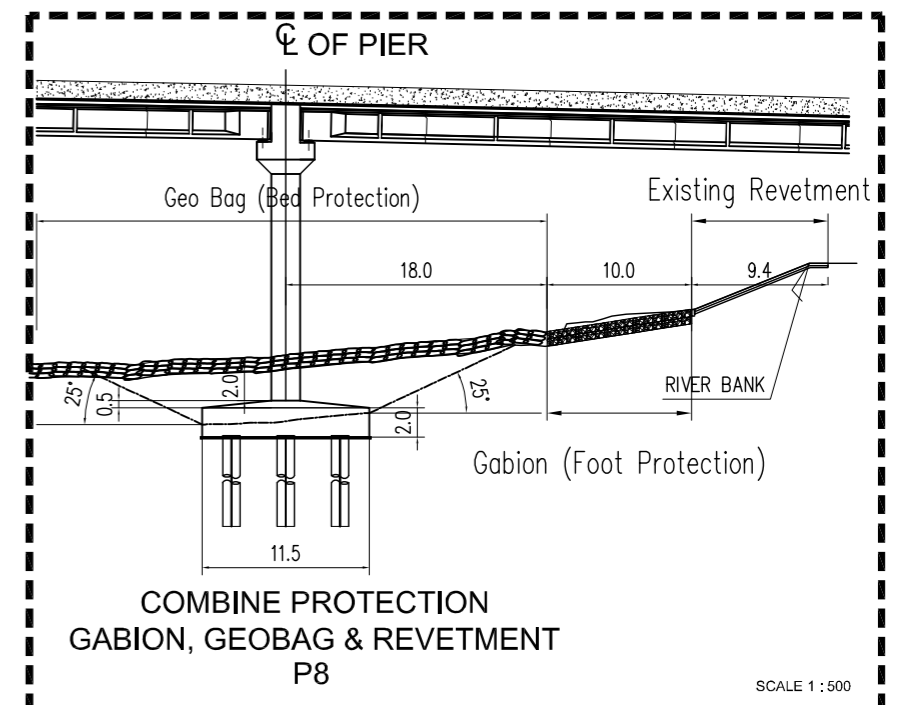
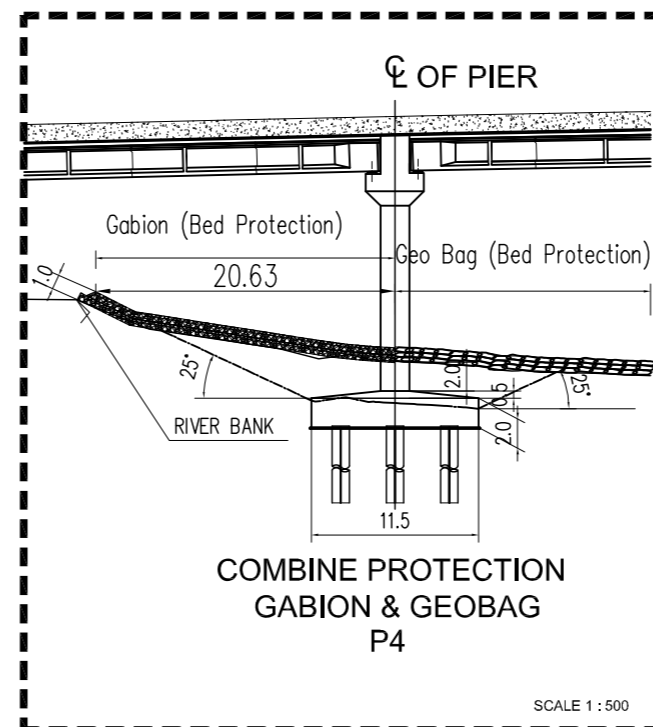
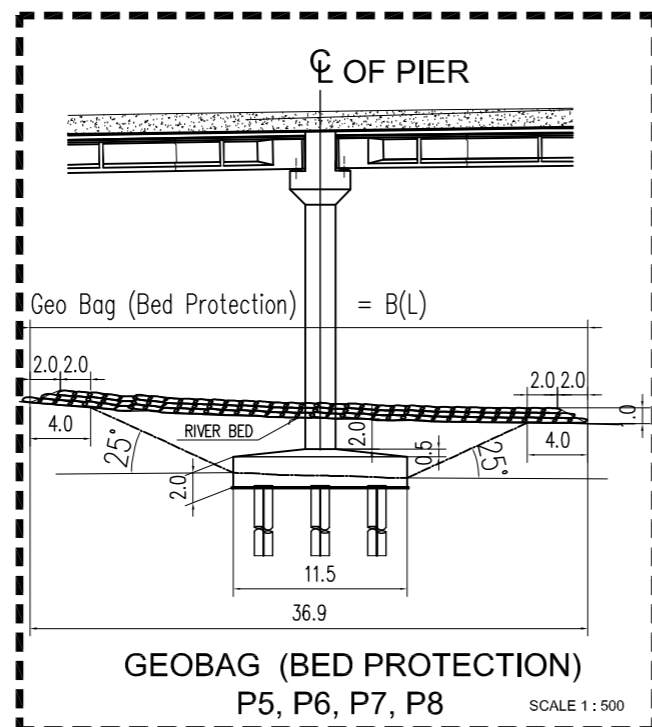
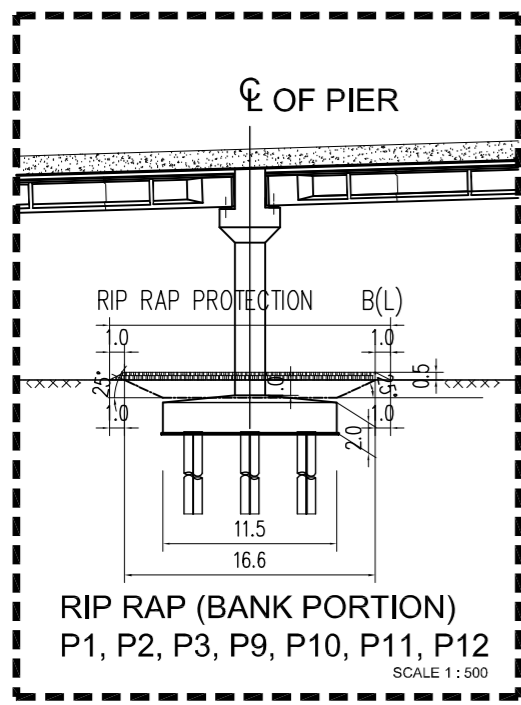
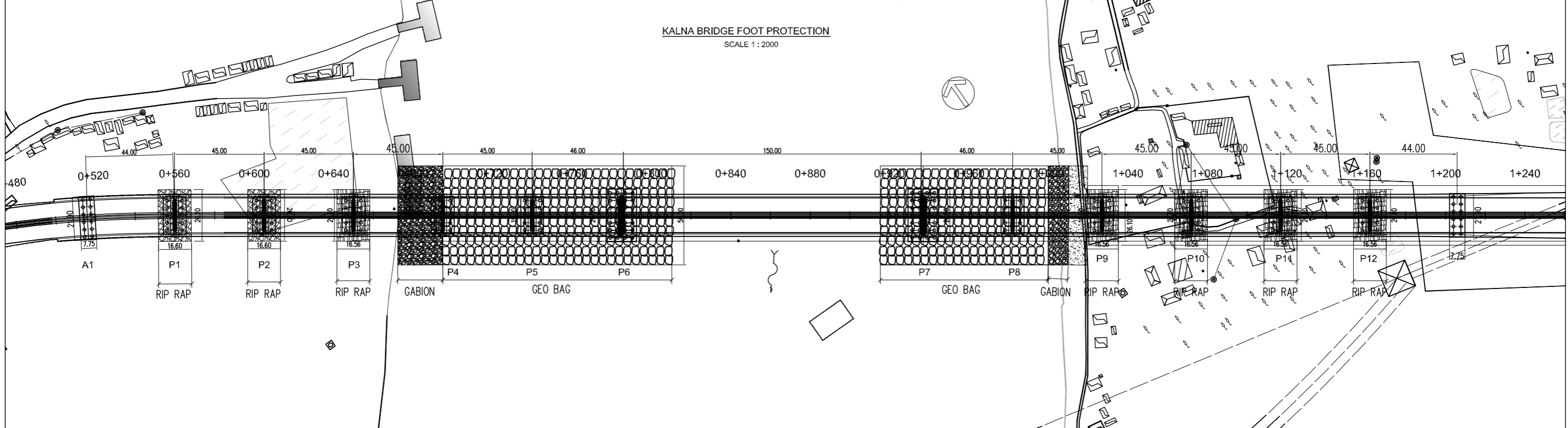
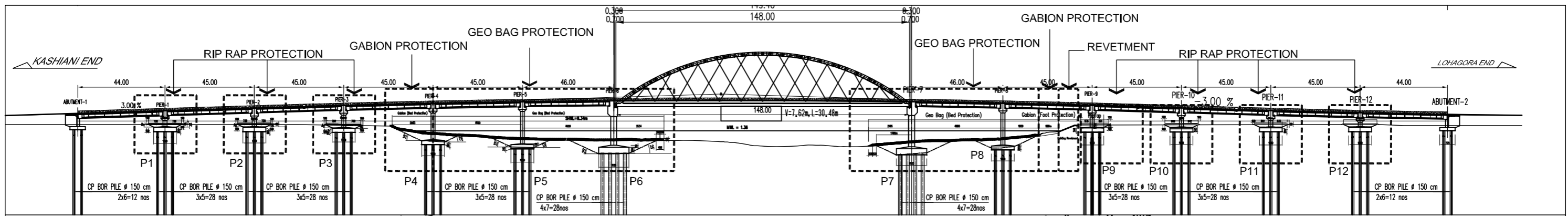
#### SIDE VIEW PIER P6 & P7

SCALE = 1:100

LOC	STATION	EG	FG	H	t	TOF	BOF	AMWL	DEPTH OF WATER	PILE		
										EL BOR	EL FIRM	L-PILE
										BOF-FIRM		
A1	0+515.931	4.50	9.978	3.963	1.000	3.500	2.000			2.500	-49.852	51.852
P1	0+559.931	4.50	11.298	3.083	1.000	3.500	1.000			2.500	-49.852	50.852
P2	0+604.931	4.50	12.648	4.433	1.000	3.500	1.000			2.500	-49.852	50.852
P3	0+649.931	4.15	13.970	6.106	1.000	3.148	0.648			2.148	-49.852	50.500
P4	0+694.931	-0.44	15.047	12.768	2.000	-2.437	-4.937	1.360	1.797	-2.437	-49.852	44.915
P5	0+739.931	-3.04	15.835	16.158	2.000	-5.039	-7.539	1.360	4.399	-5.039	-49.852	42.313
P6	0+785.931	-3.67	16.341	14.807	2.000	-5.671	-9.671	1.360	5.031	-8.671	-48.671	39.000
P7	0+935.931	-4.66	15.893	15.345	2.000	-6.658	-10.658	1.360	6.018	-9.658	-48.671	38.013
P8	0+981.931	-3.08	15.111	15.474	2.000	-5.079	-7.579	1.360	4.439	-5.279	-49.951	42.372
P9	1+026.931	4.25	14.054	6.089	1.000	3.249	0.749			2.049	-49.951	50.700
P10	1+071.931	4.34	12.742	4.683	1.000	3.344	0.844			2.144	-49.951	50.795
P11	1+116.931	4.44	11.544	3.260	1.000	3.439	0.939			2.239	-49.951	50.890
P12	1+161.931	4.50	10.627	2.105	1.000	3.500	1.000			2.300	-49.951	50.951
A2	1+205.931	4.00	10.000	4.015	1.000	3.000	1.500			1.800	-49.951	51.451

BOT BOTTOM OF FOOTING  
 TOP TOP OF FOOTING  
 AMWL ANNUAL MEAN WATER LEVEL



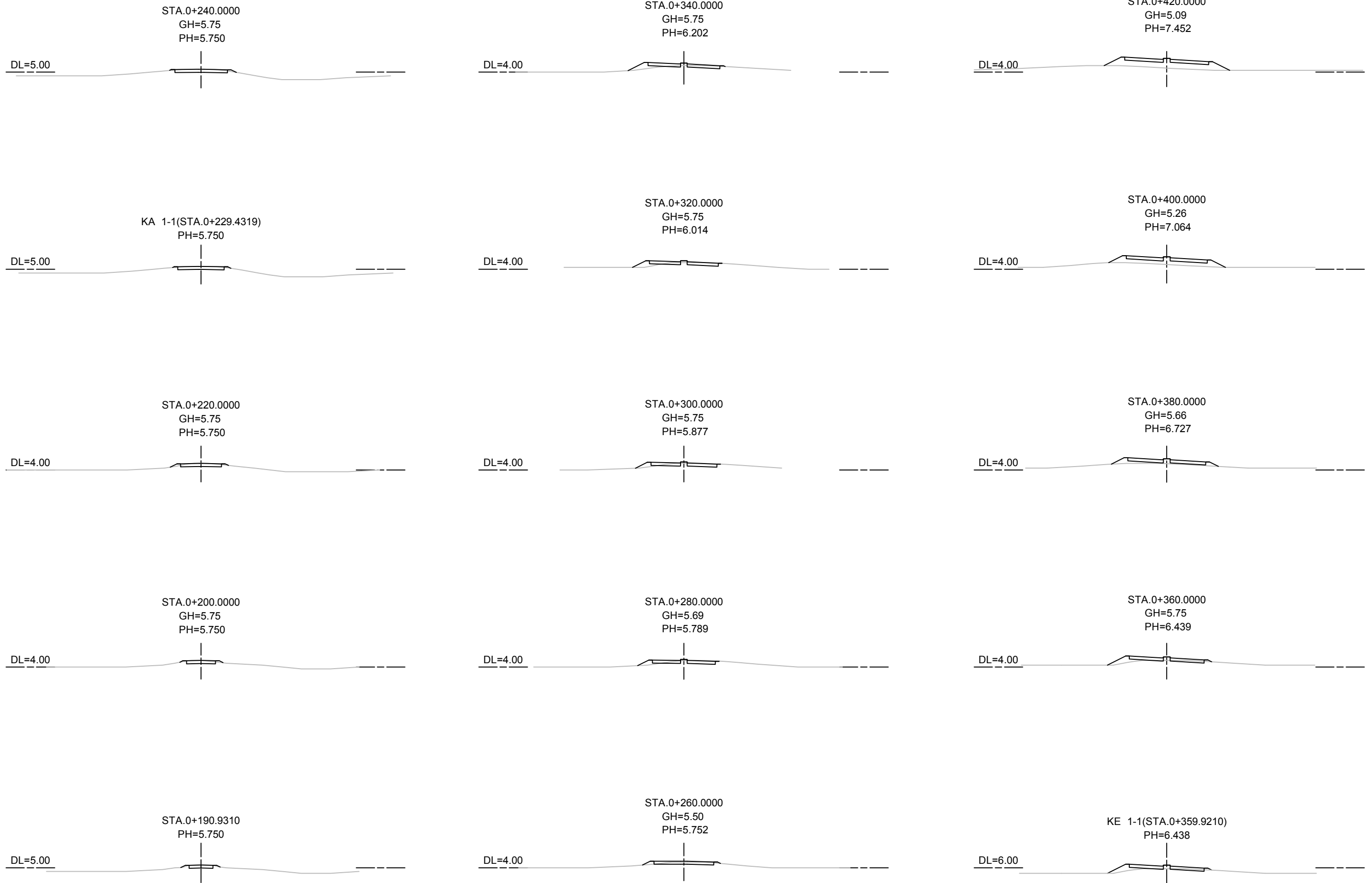


No	REVISION	DATE

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/FP-01

# CROSS SECTION ( 1 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

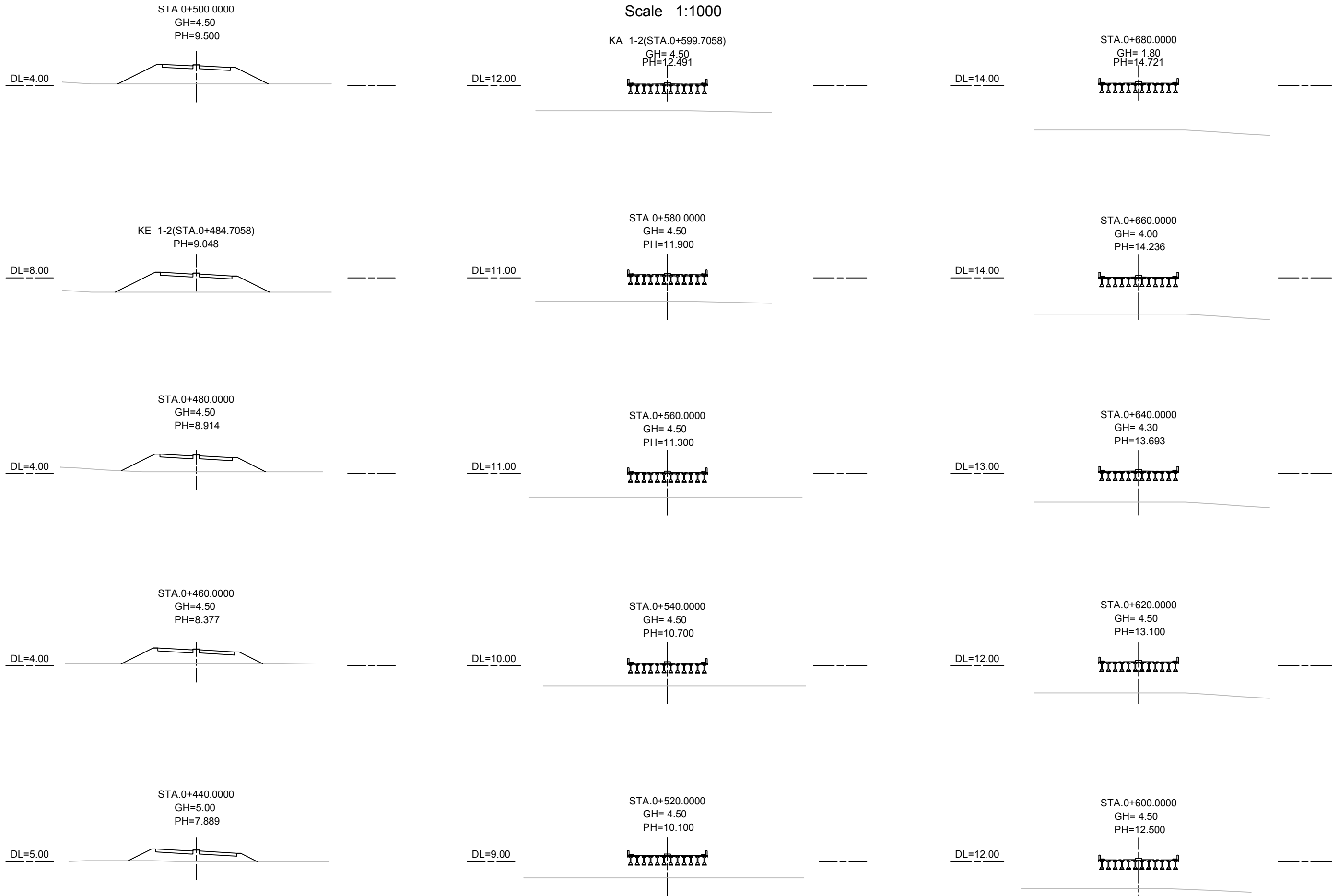
Cross Section( 1 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
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APPROVED BY:	
DWG. NO.	A4/CS-01



# CROSS SECTION ( 2 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

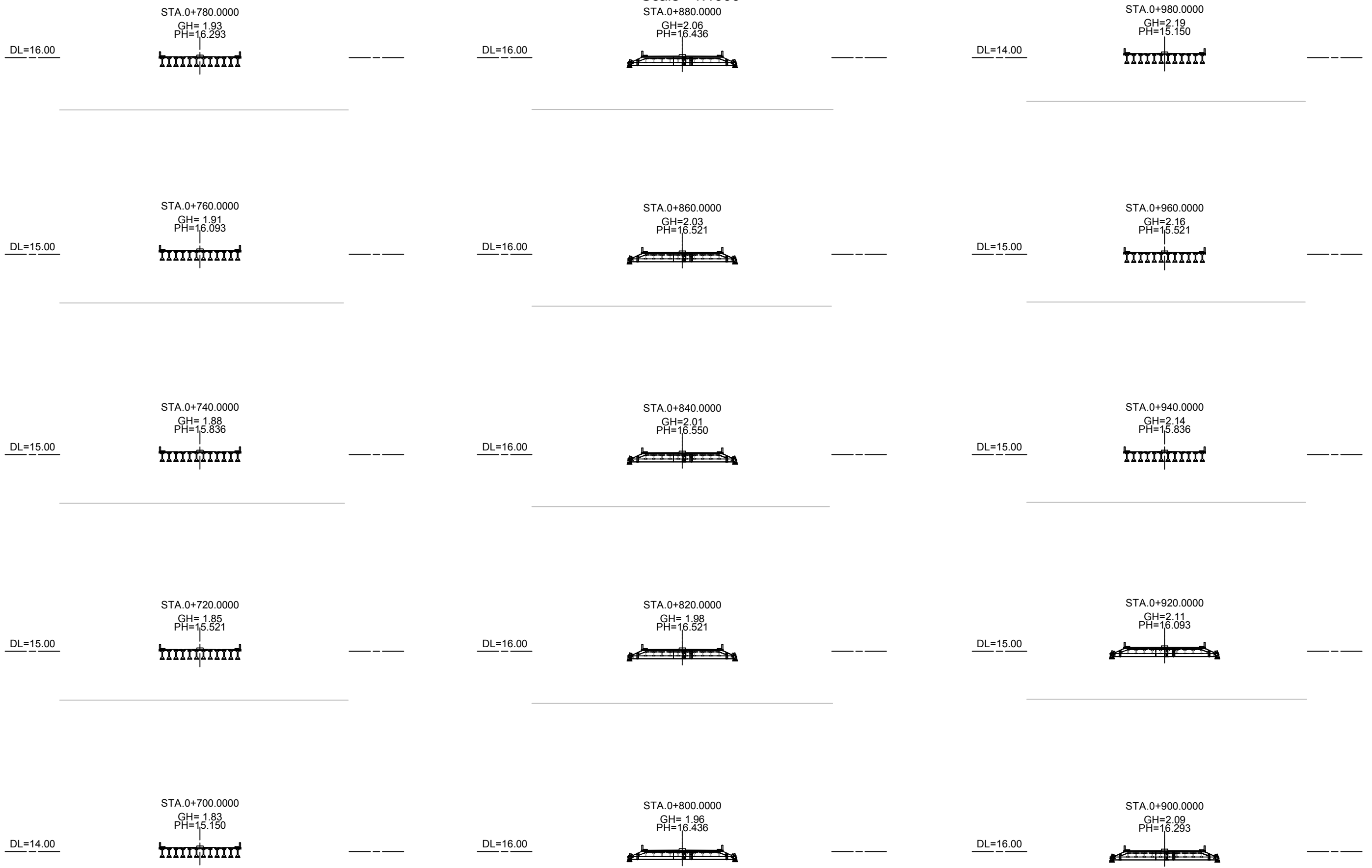
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 2 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
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APPROVED BY:	
DWG. NO.	A4/CS-02

# CROSS SECTION ( 3 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

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PADECO CO.,LTD

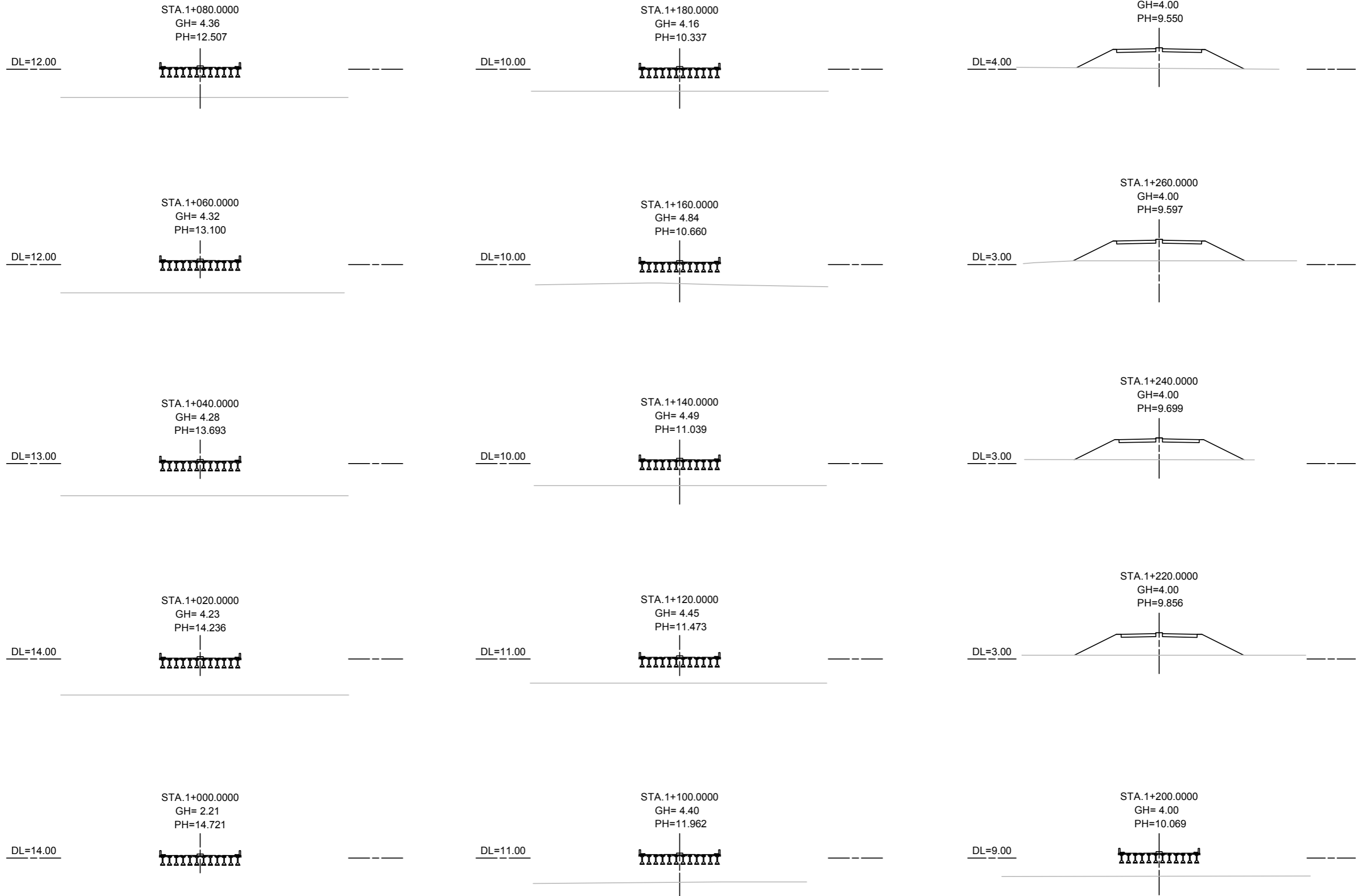
No	REVISION	DATE
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PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
Cross Section( 3 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-03

# CROSS SECTION ( 4 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD.

No	REVISION	DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

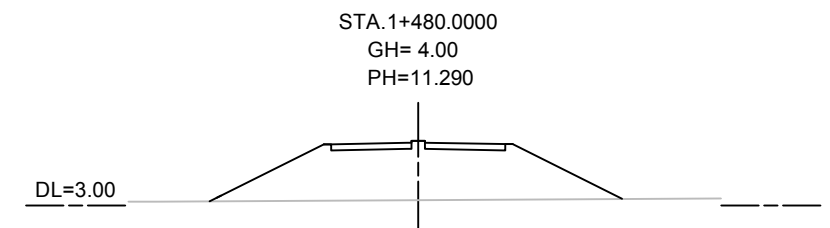
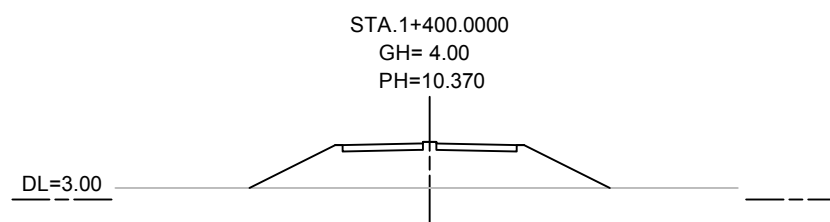
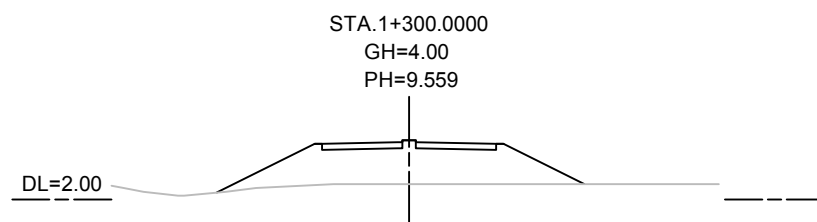
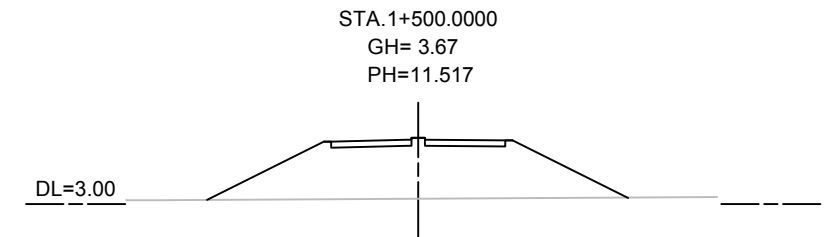
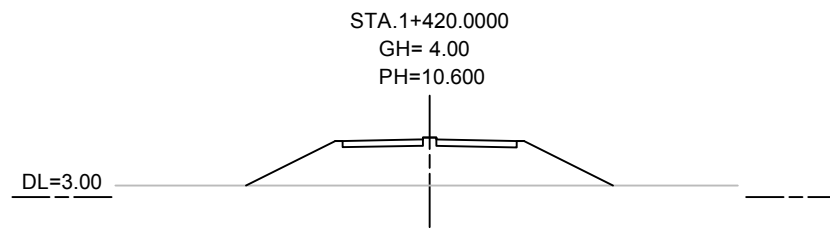
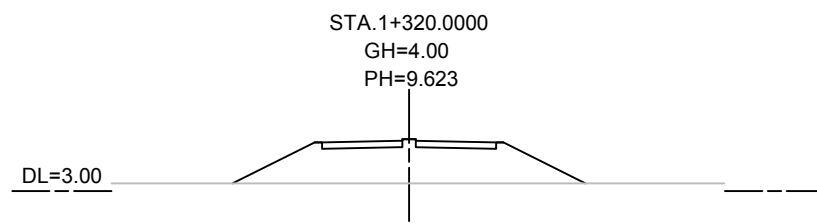
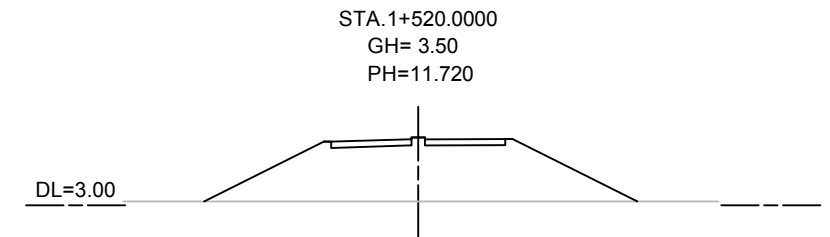
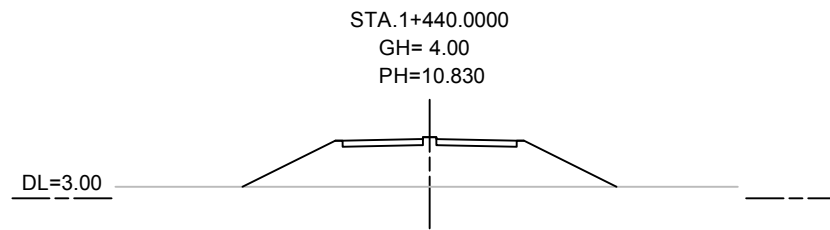
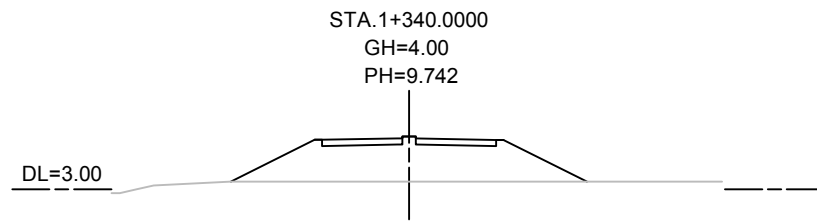
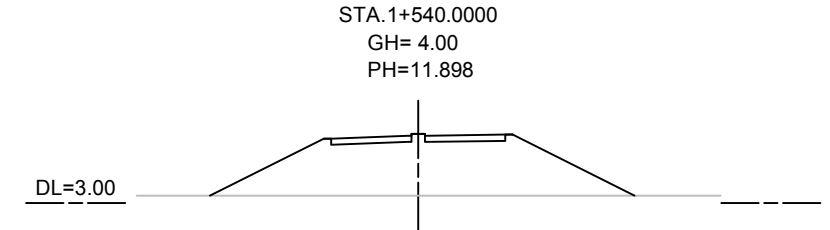
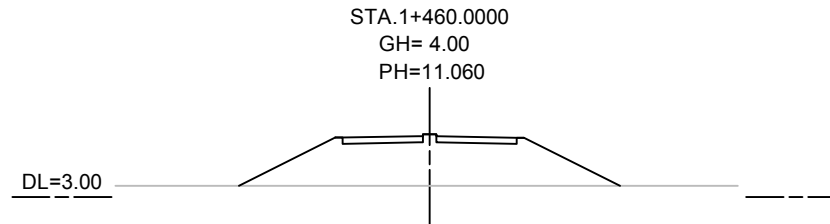
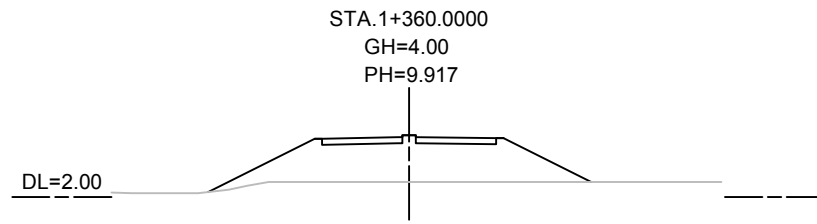
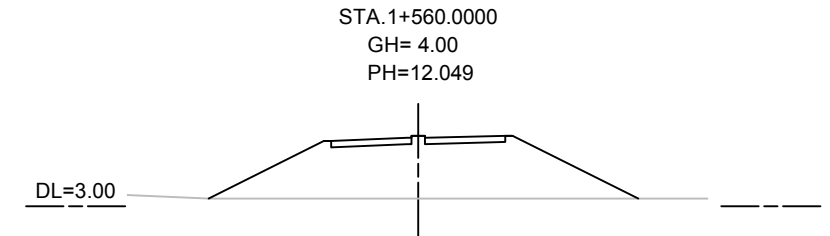
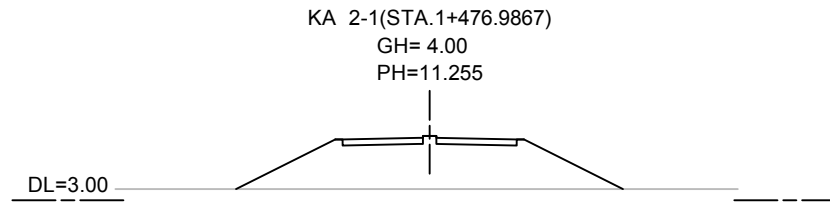
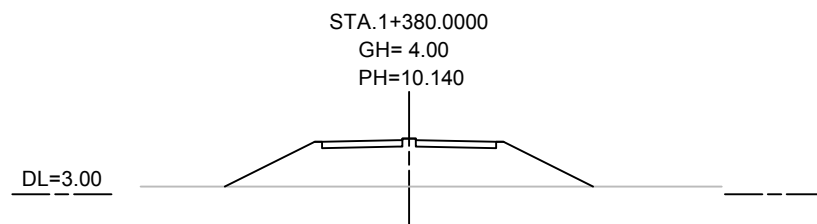
Cross Section( 4 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-04



# CROSS SECTION ( 5 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD

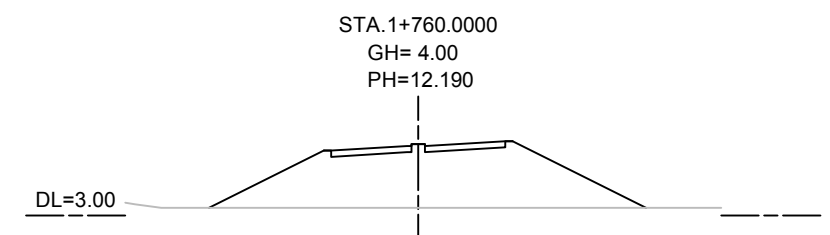
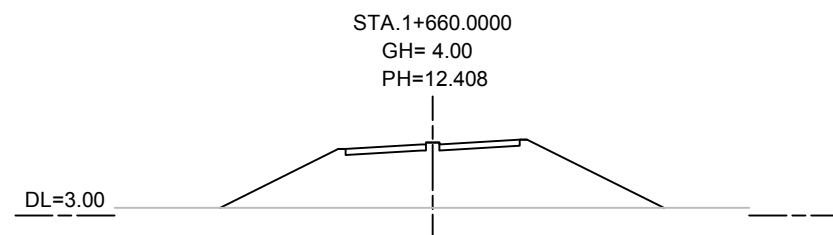
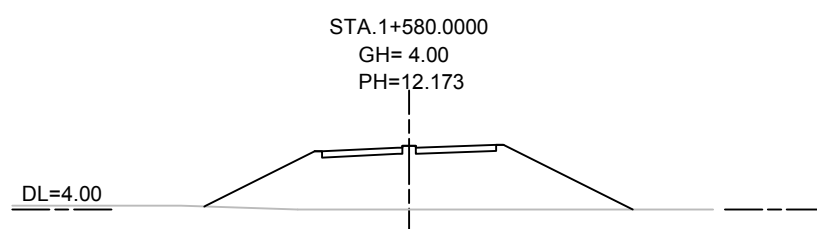
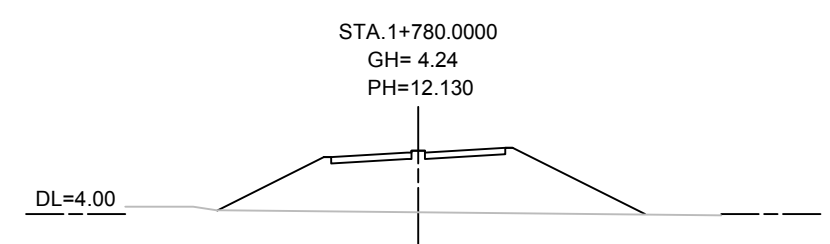
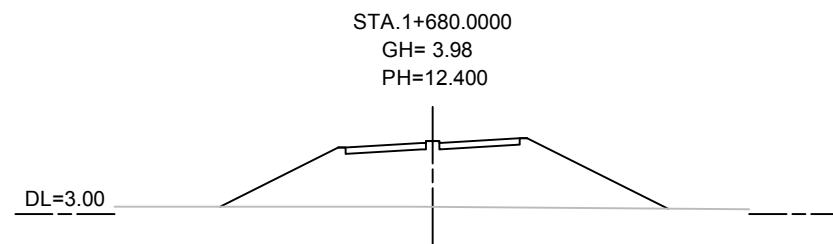
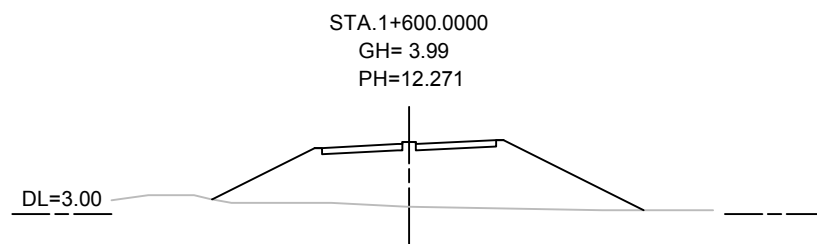
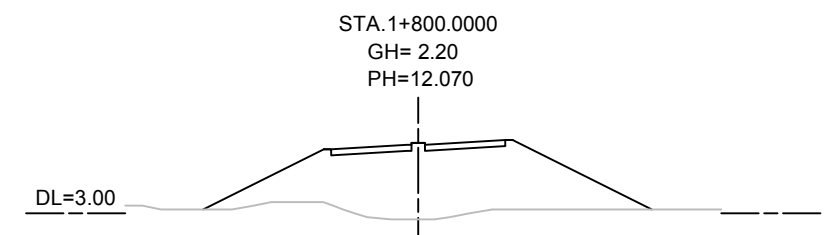
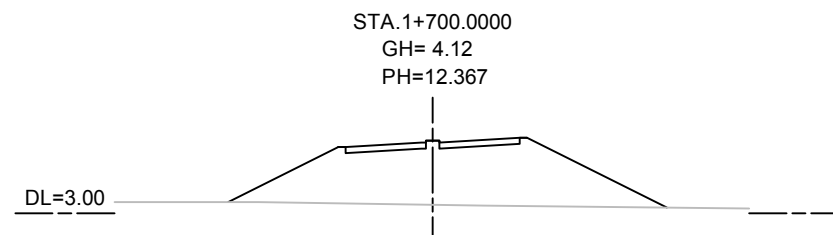
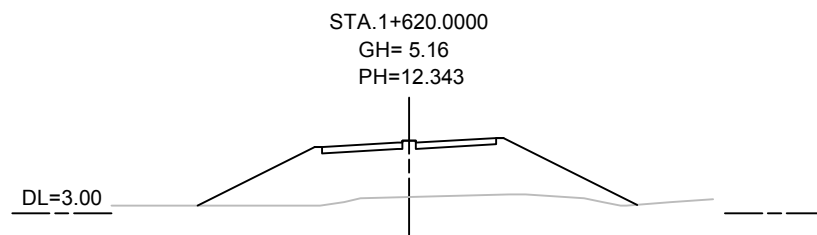
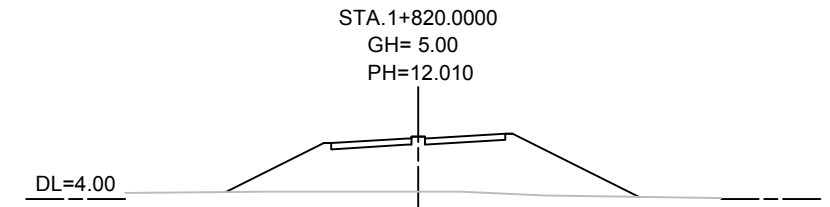
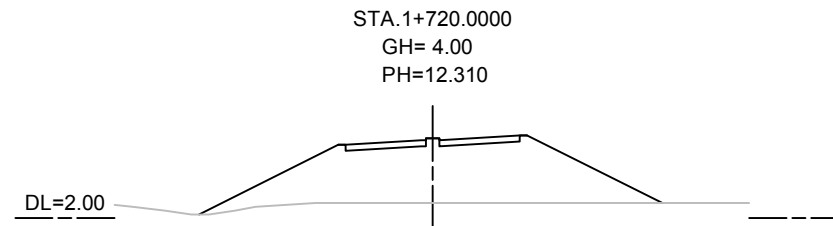
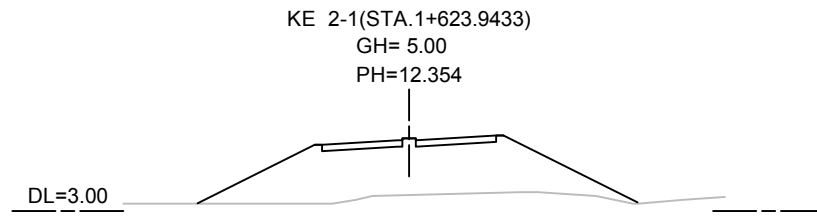
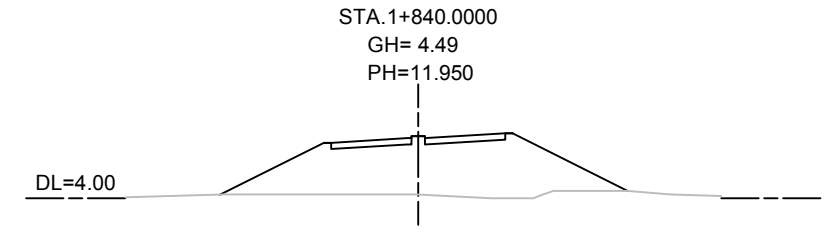
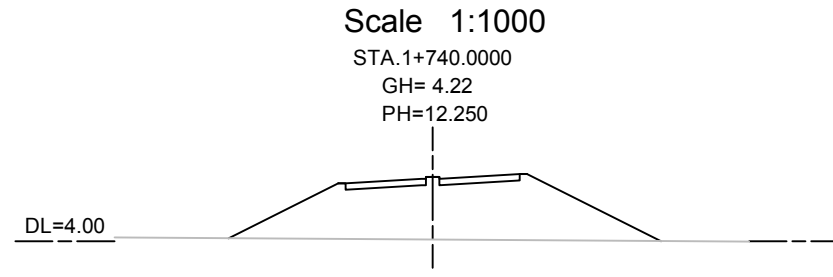
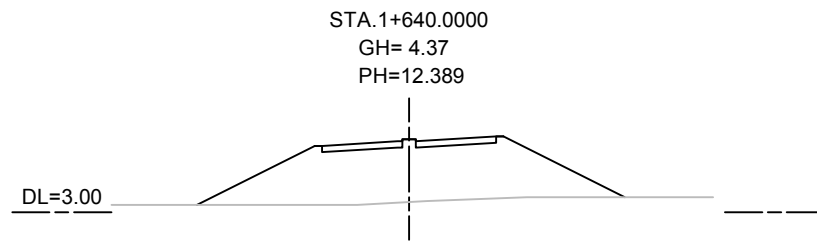
No	REVISION	DATE
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PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
Cross Section( 5 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-05

# CROSS SECTION ( 6 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD

No	REVISION	DATE

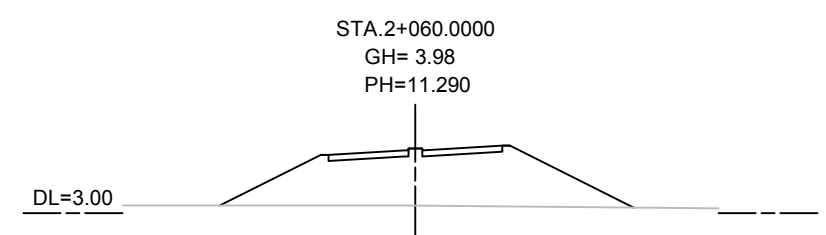
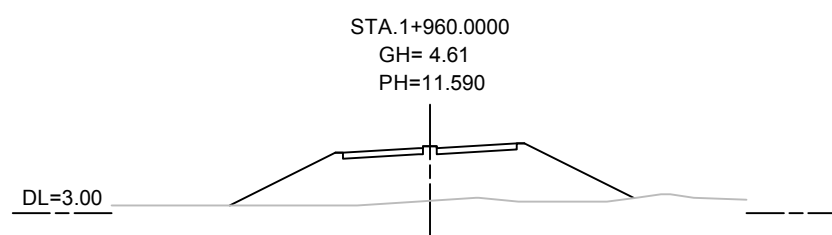
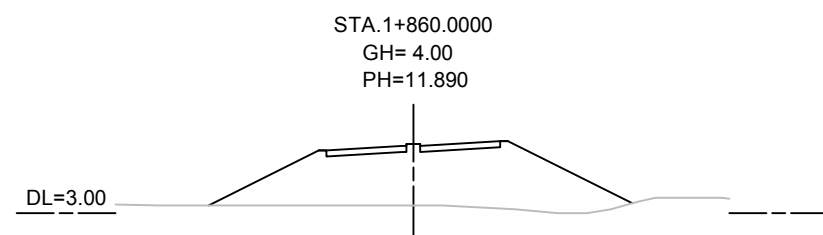
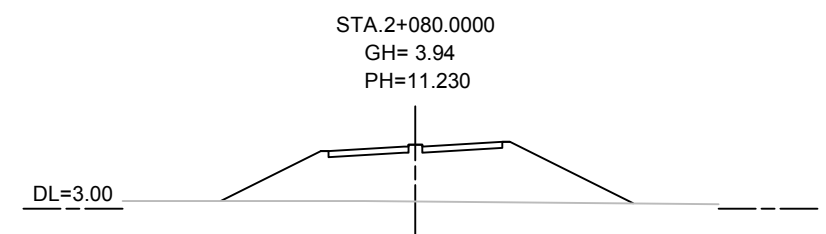
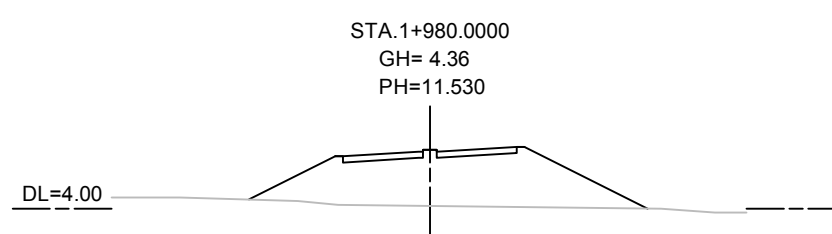
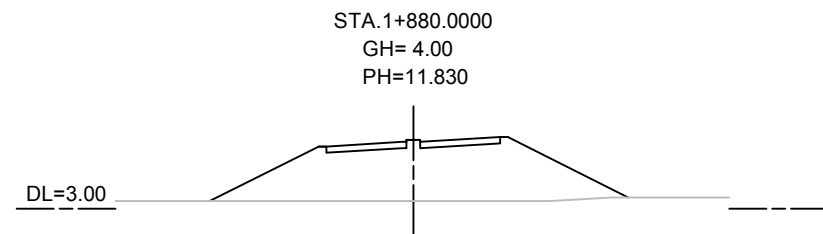
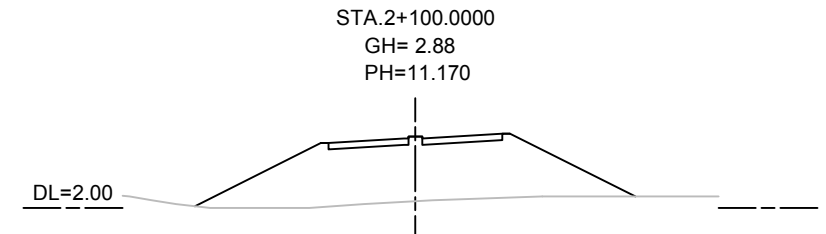
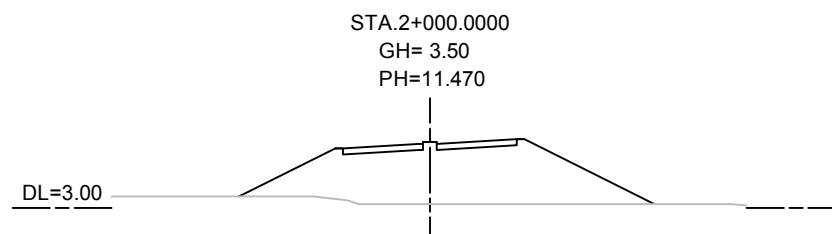
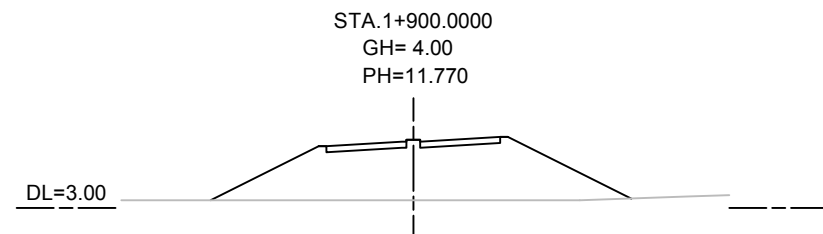
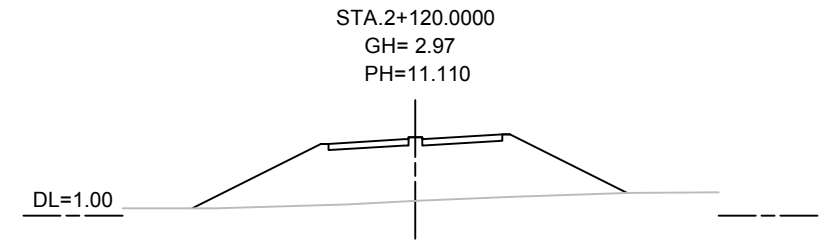
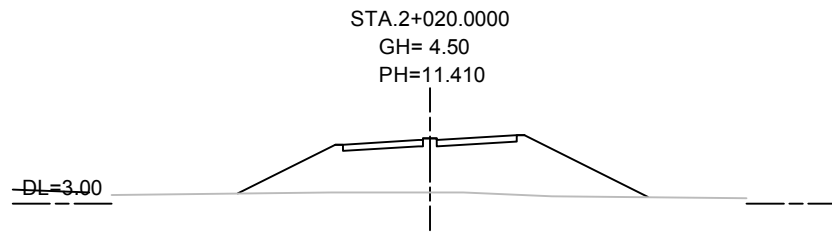
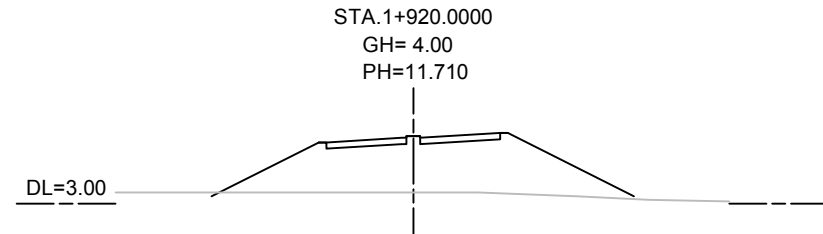
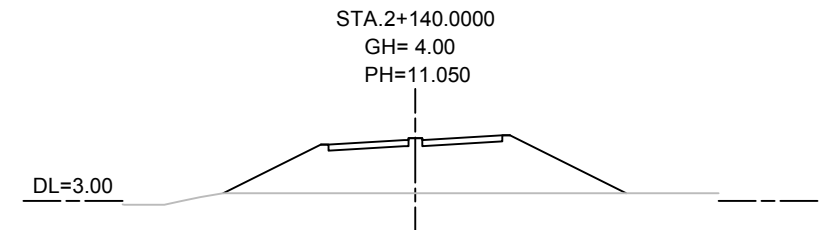
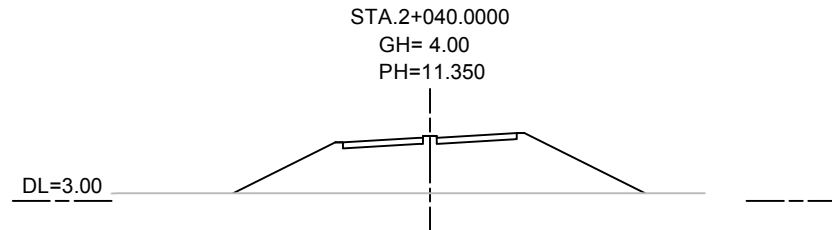
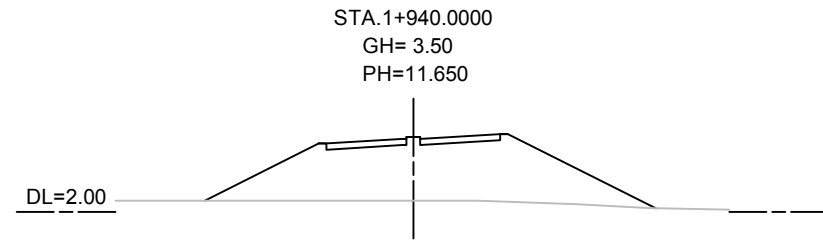
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 6 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-06

# CROSS SECTION ( 7 )

Scale 1:1000

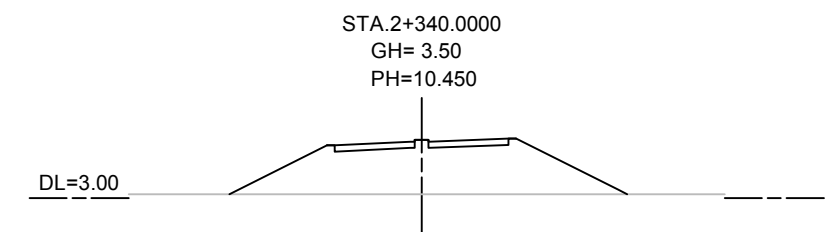
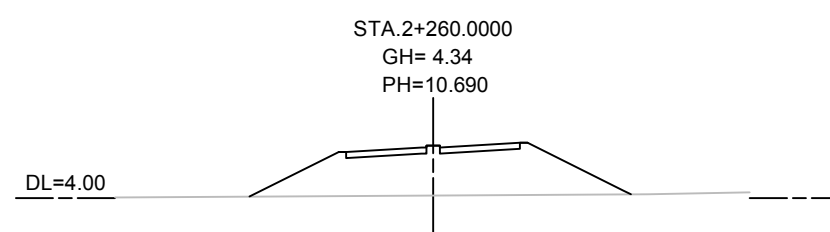
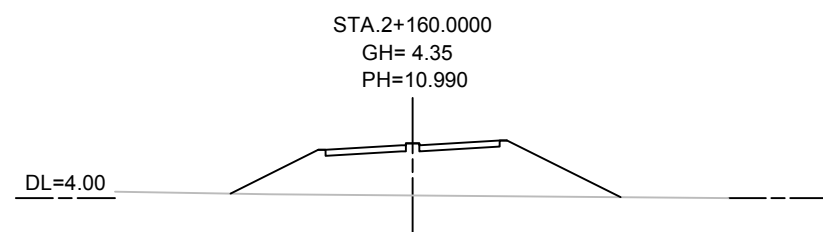
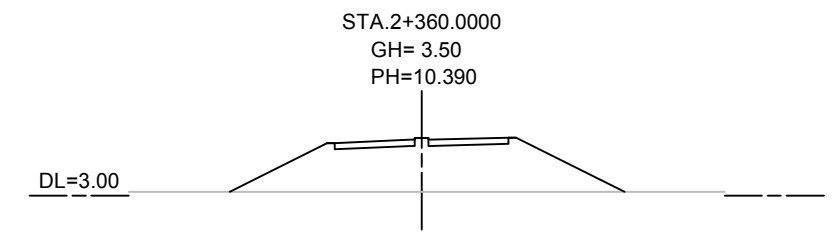
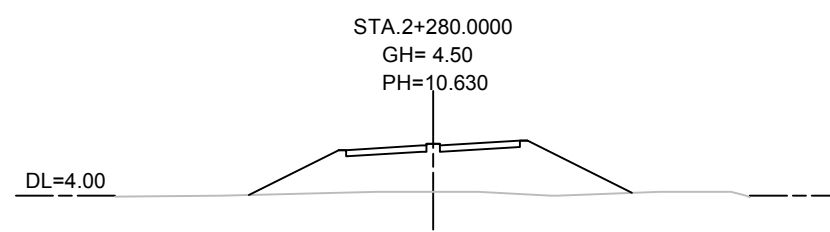
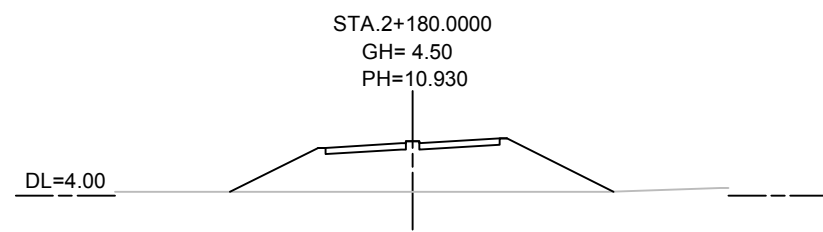
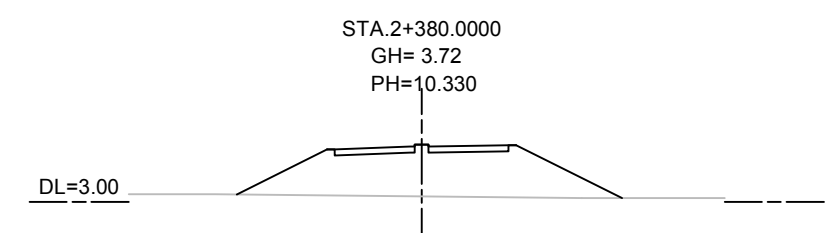
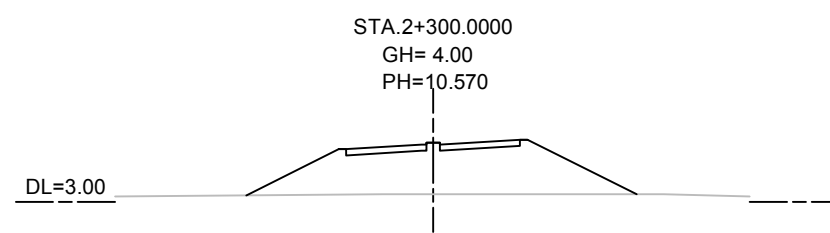
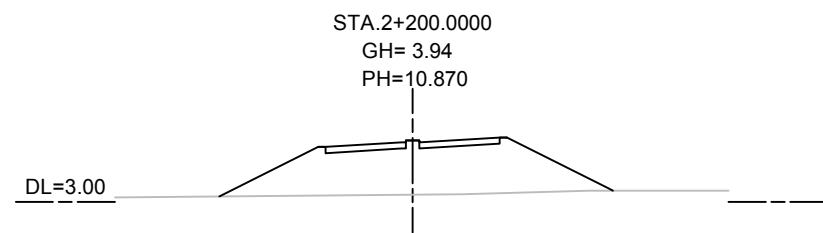
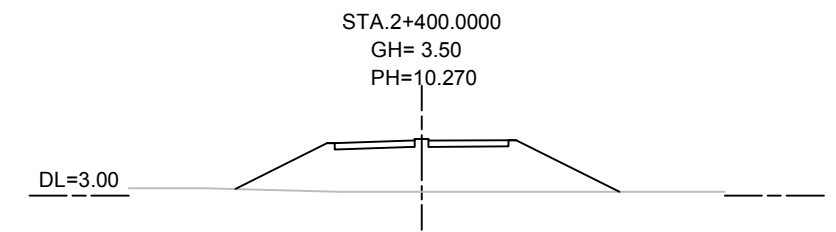
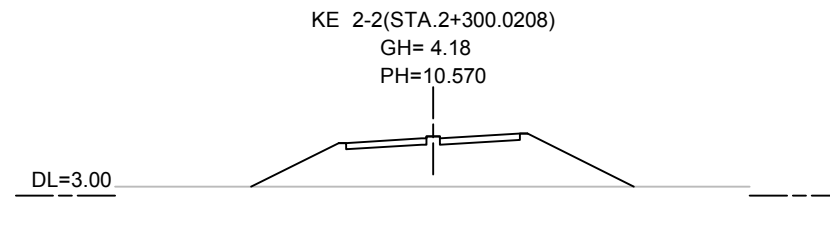
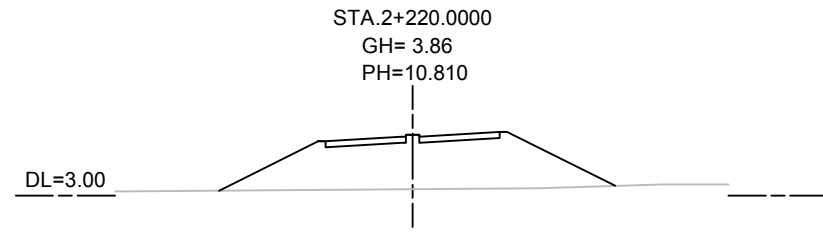
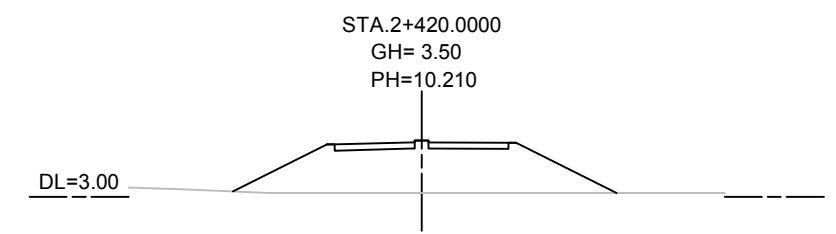
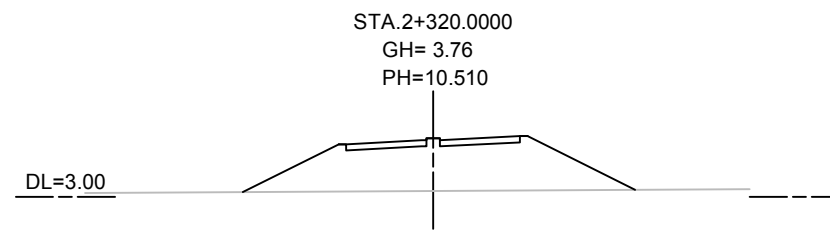
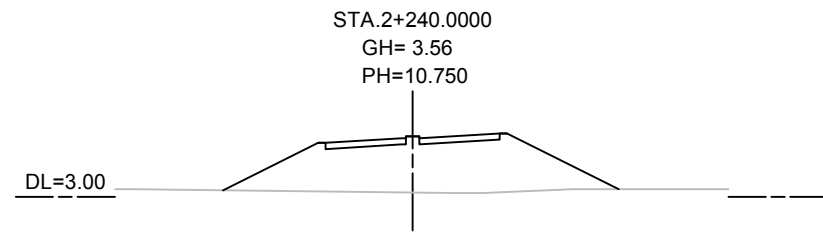


No	REVISION	DATE

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-07

# CROSS SECTION ( 8 )

Scale 1:1000

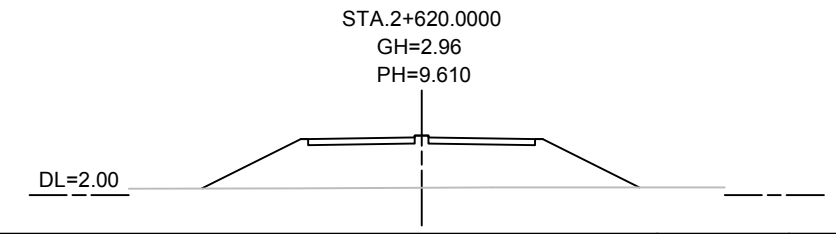
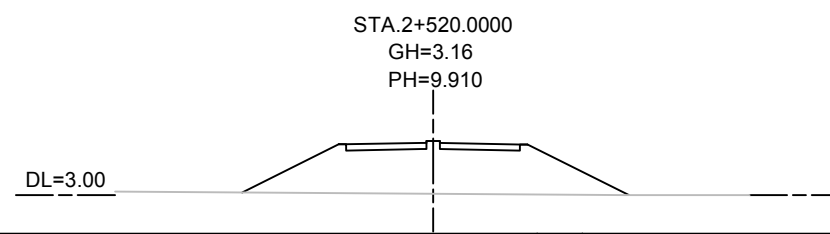
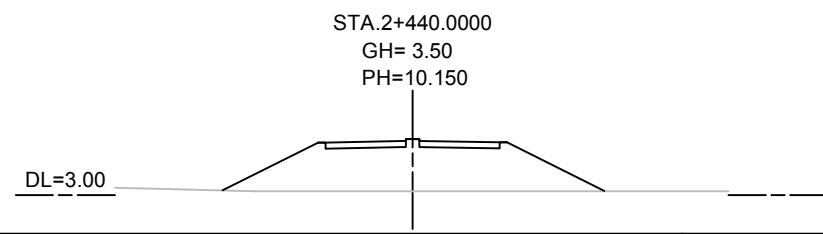
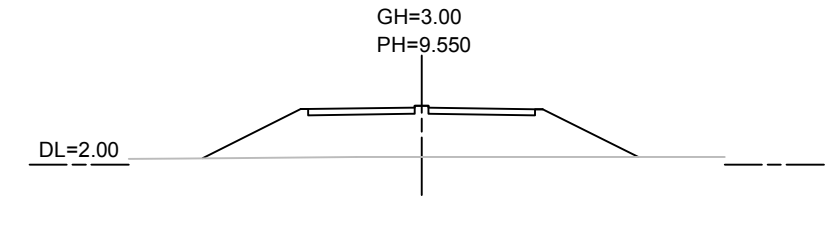
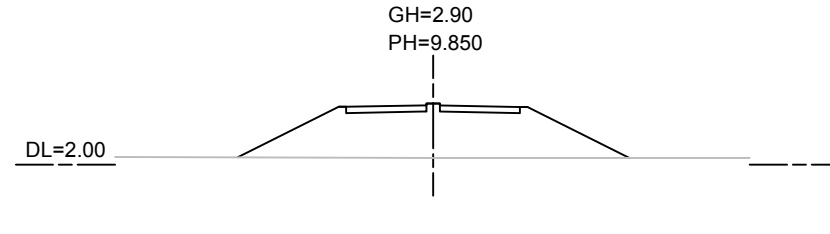
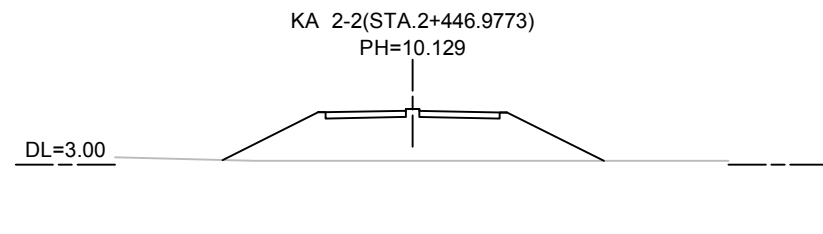
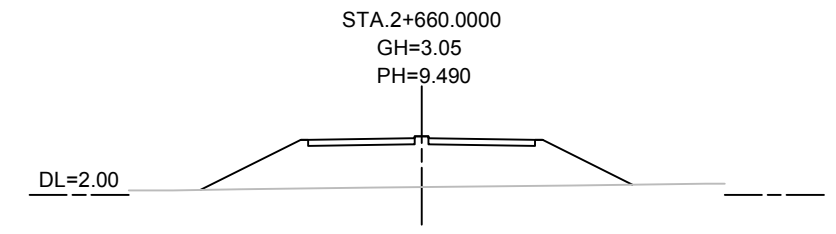
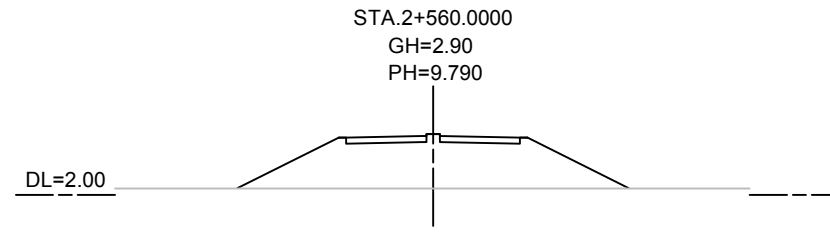
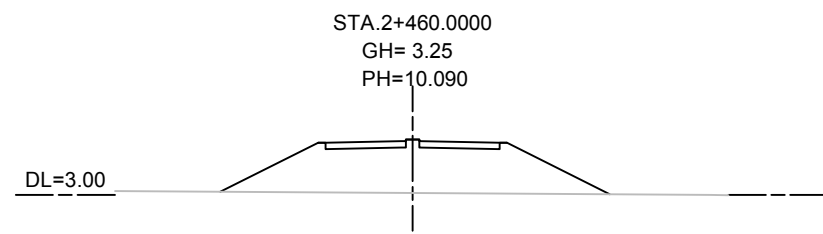
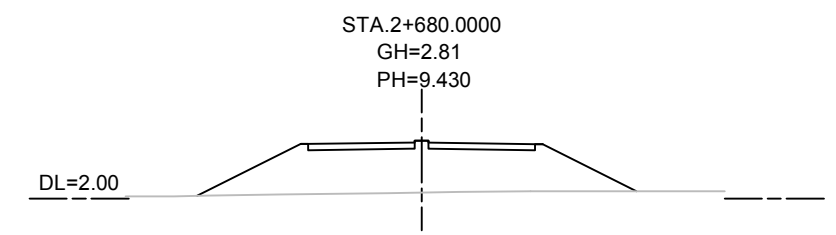
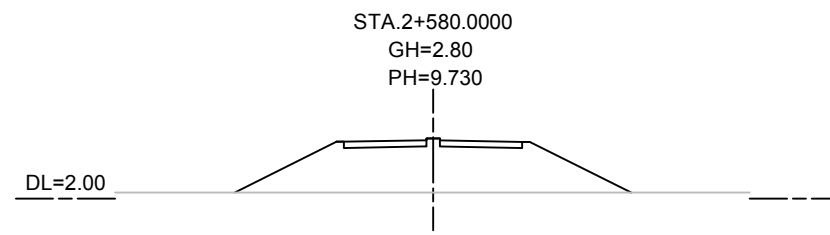
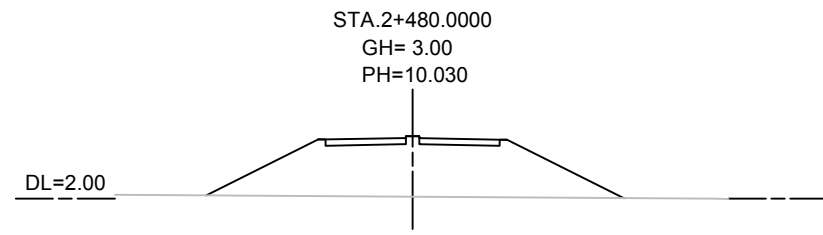
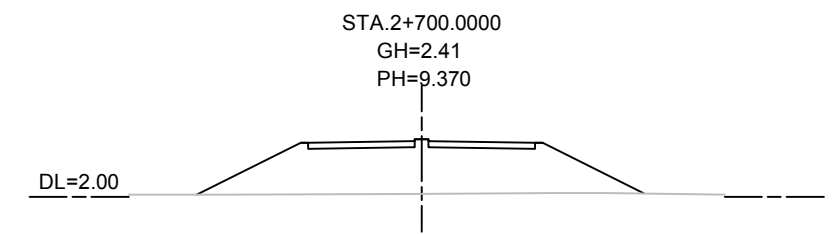
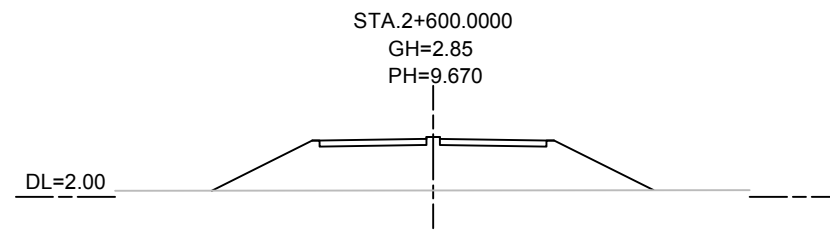
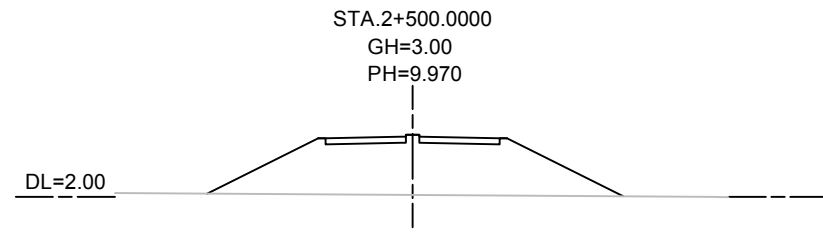


No	REVISION	DATE
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DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-08

# CROSS SECTION ( 9 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD.

No	REVISION	DATE

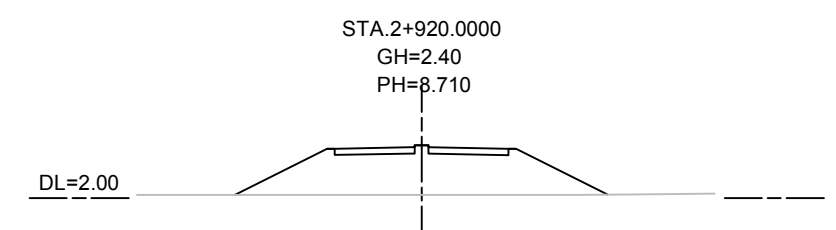
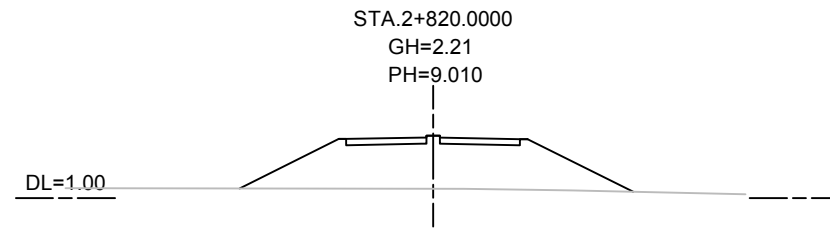
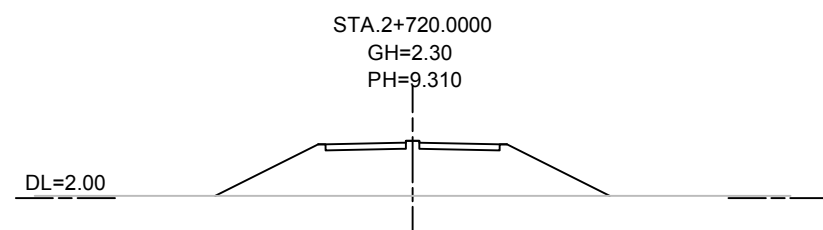
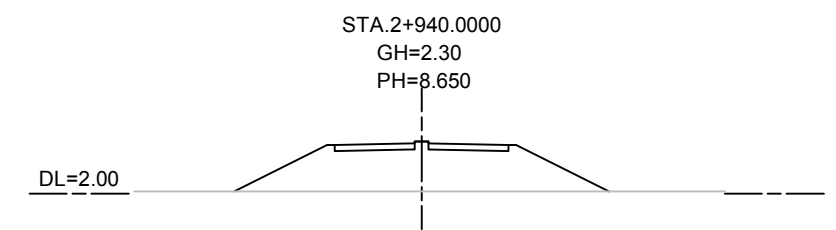
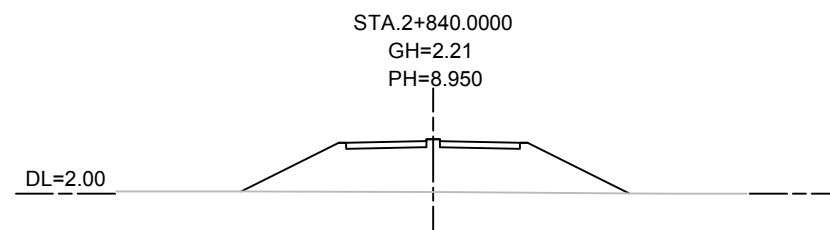
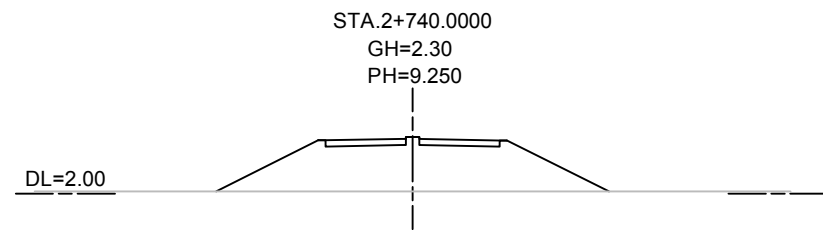
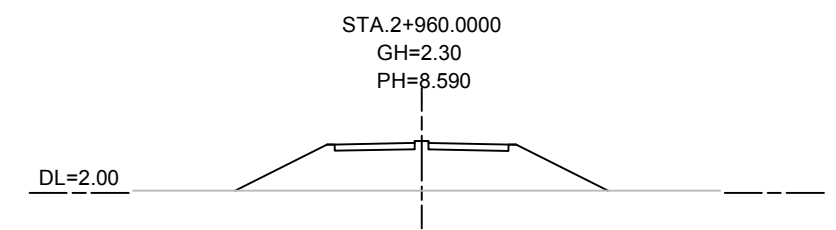
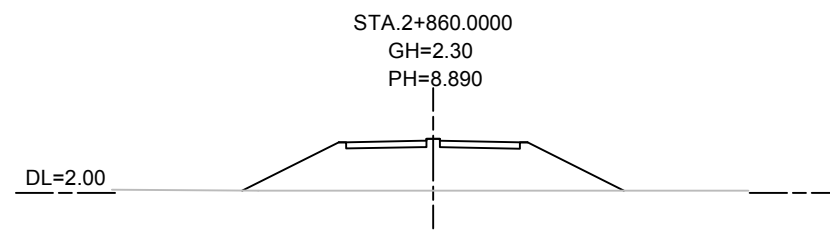
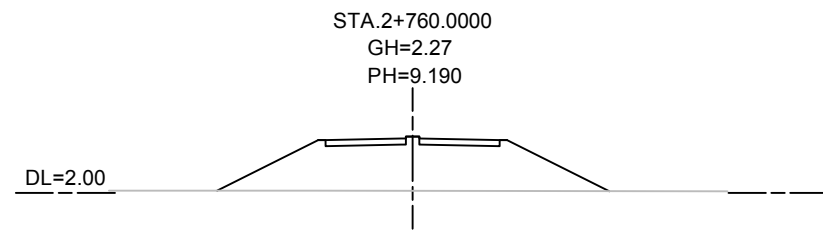
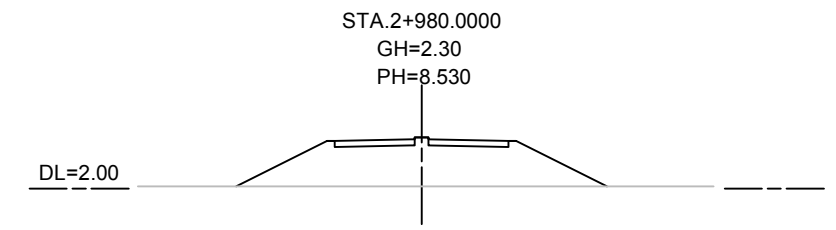
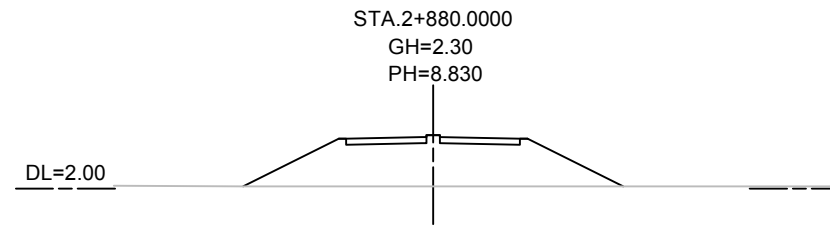
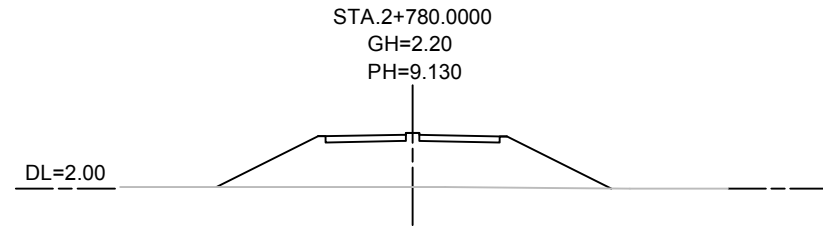
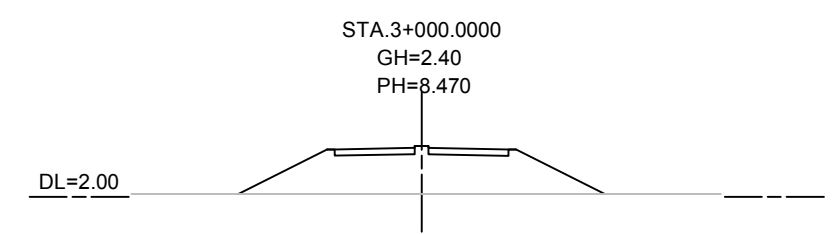
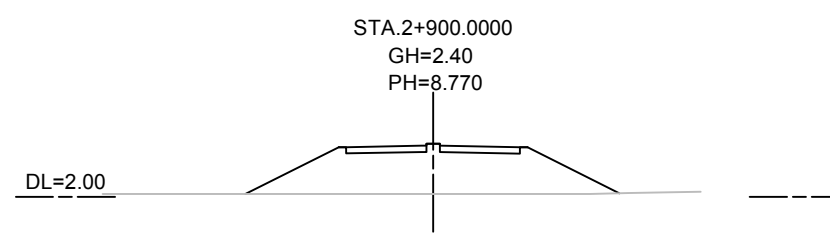
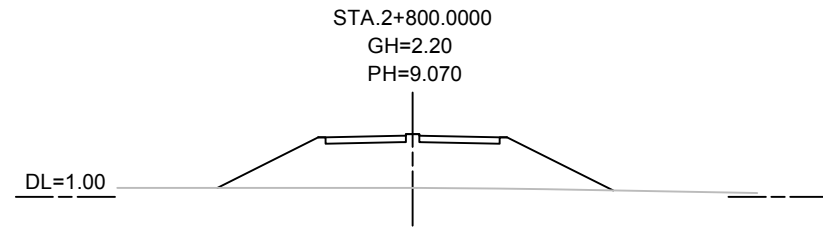
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 9 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-09

# CROSS SECTION ( 10 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD.

No	REVISION	DATE

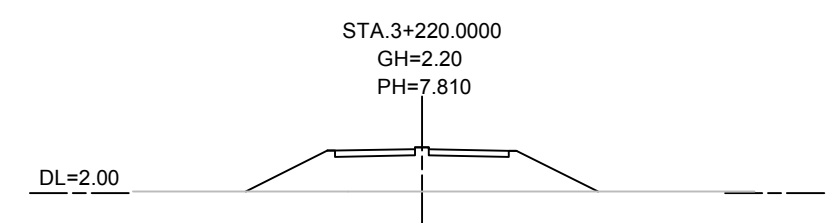
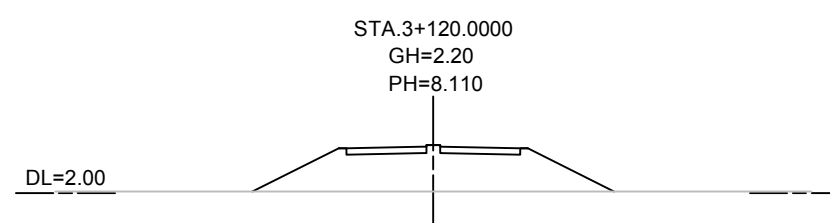
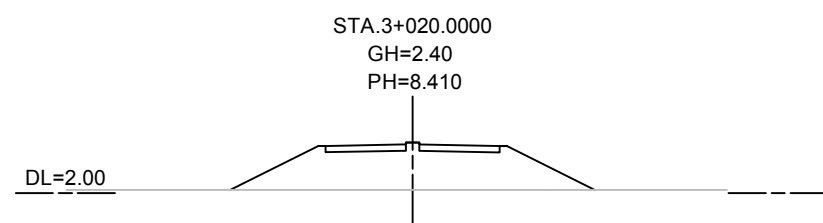
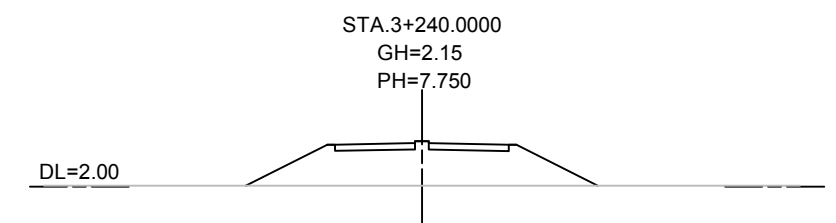
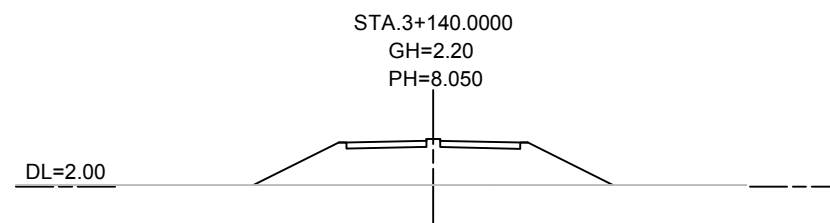
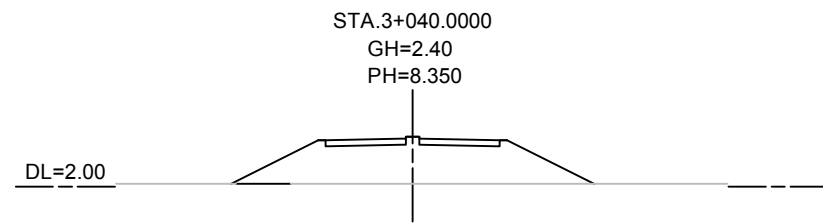
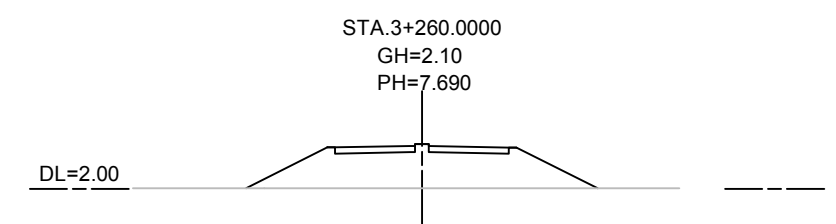
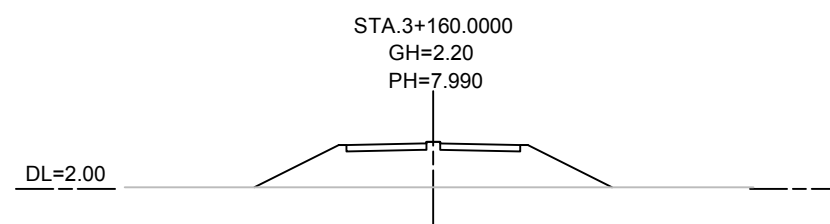
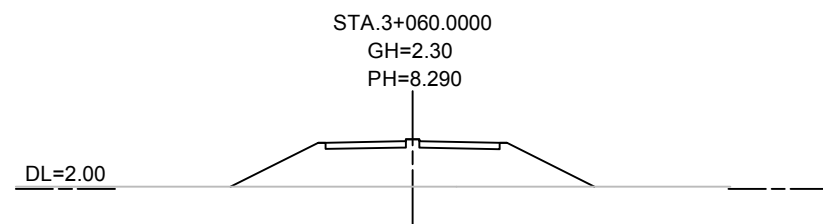
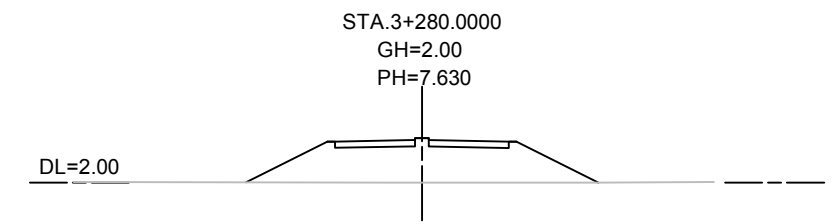
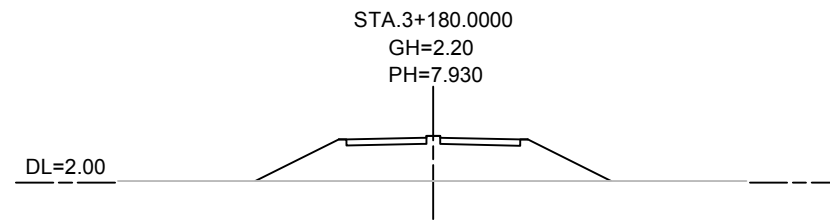
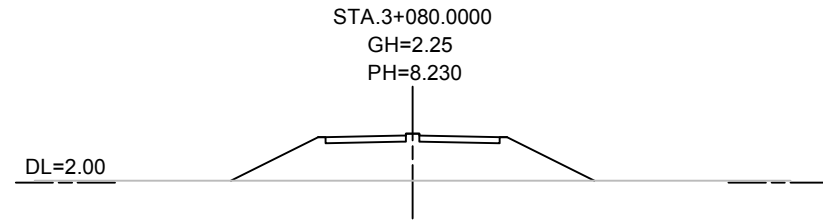
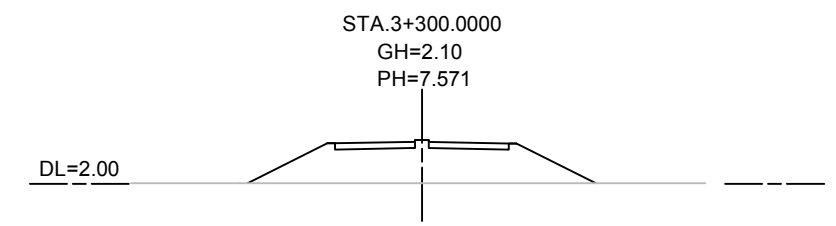
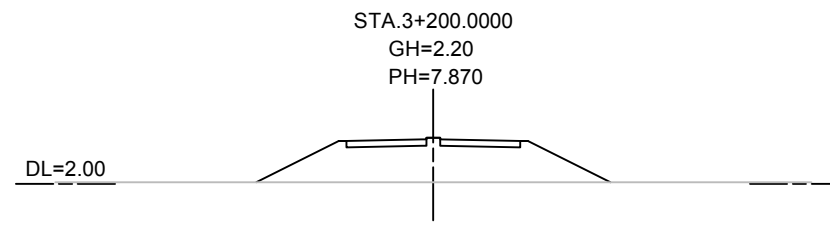
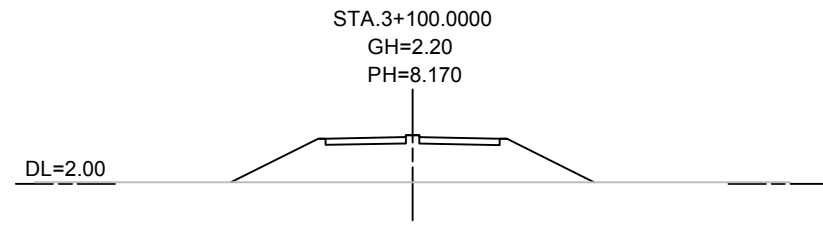
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 10 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-10

# CROSS SECTION ( 11 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD

No	REVISION	DATE

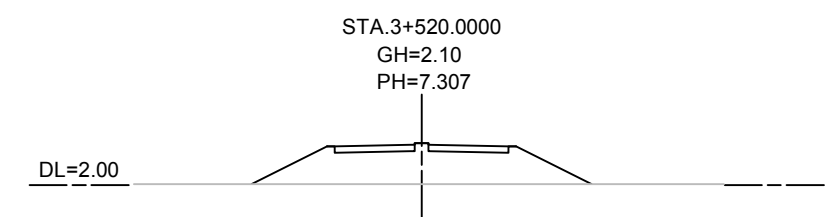
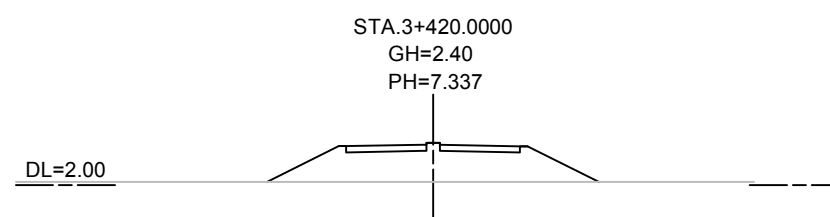
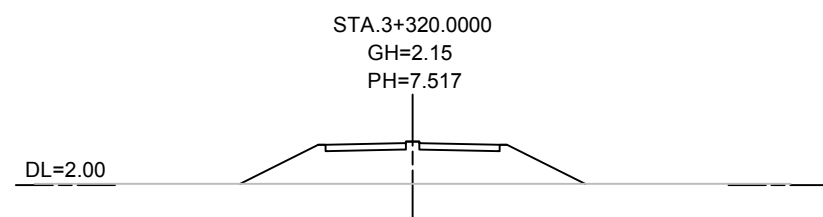
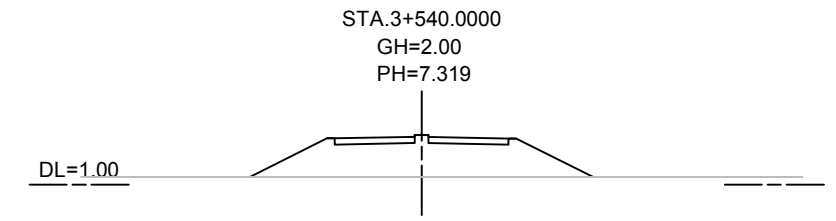
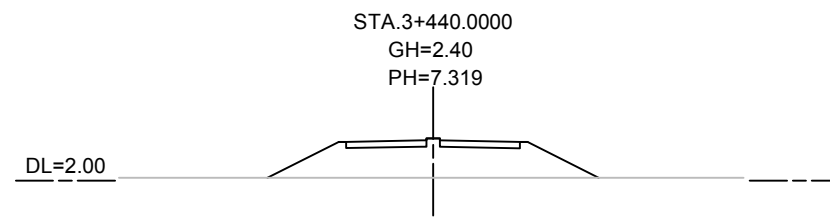
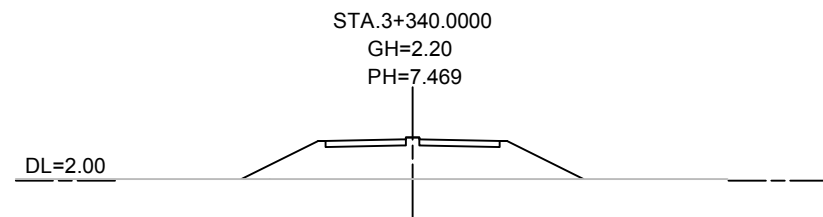
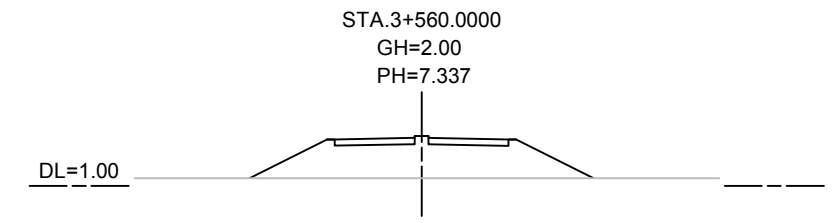
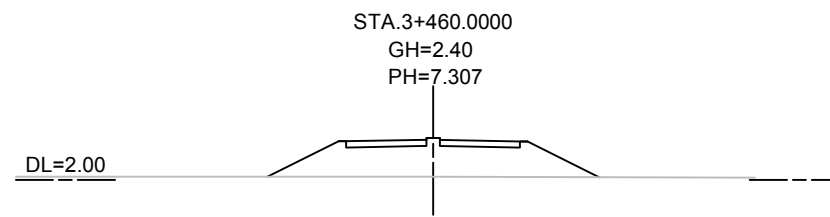
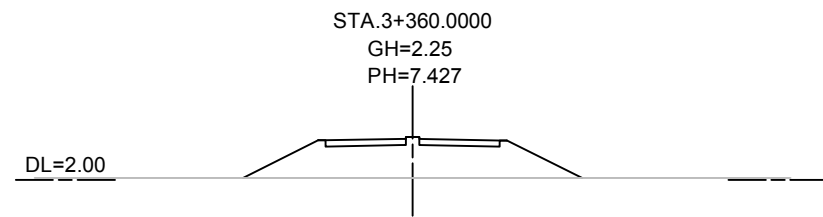
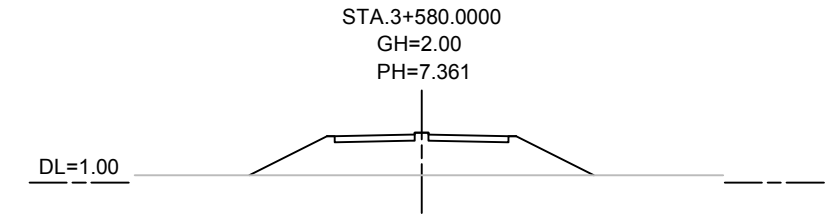
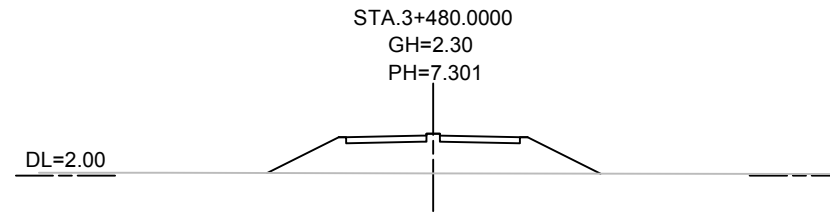
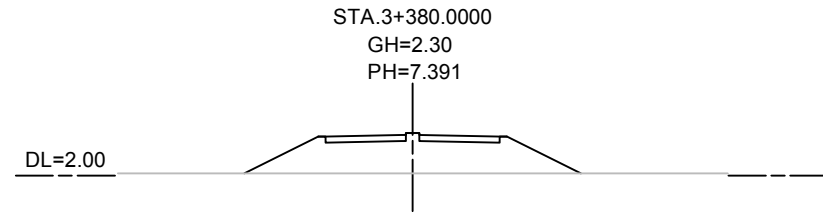
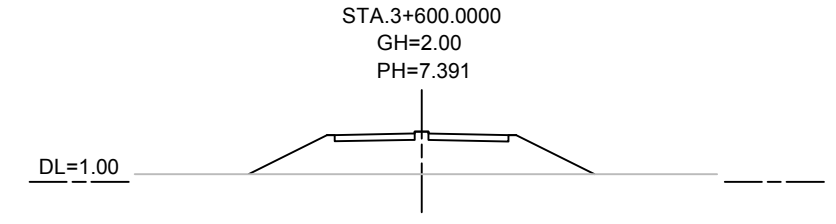
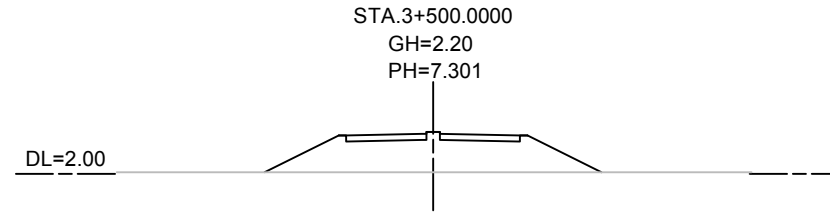
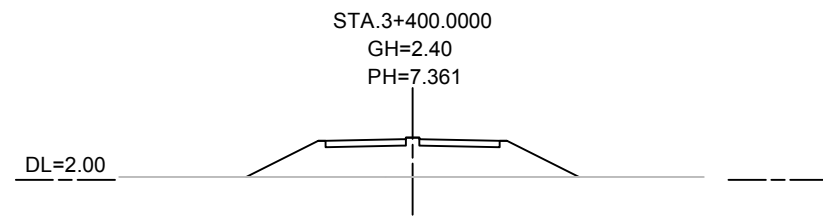
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 11 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-11

# CROSS SECTION ( 12 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO., LTD



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PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

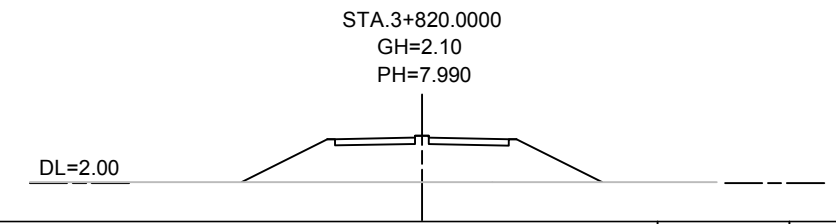
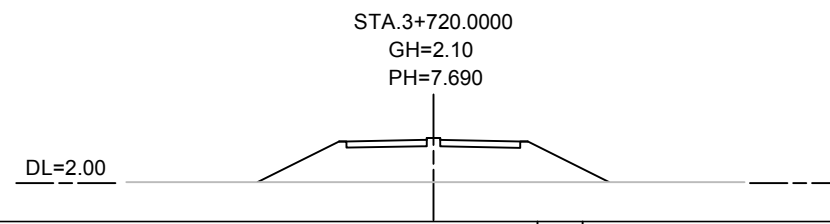
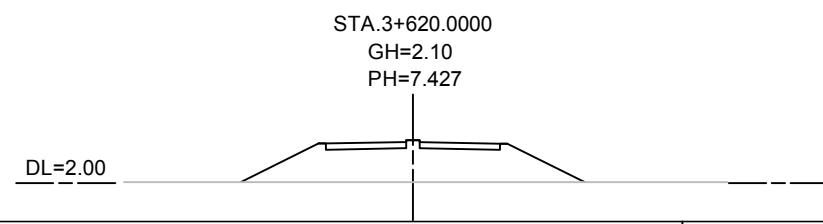
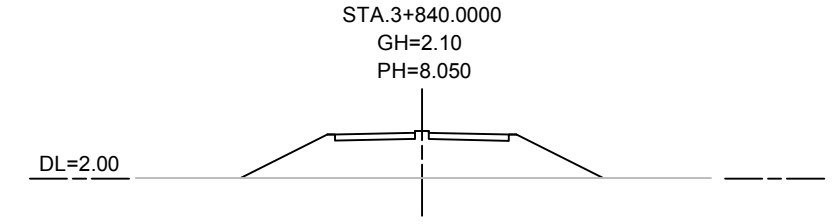
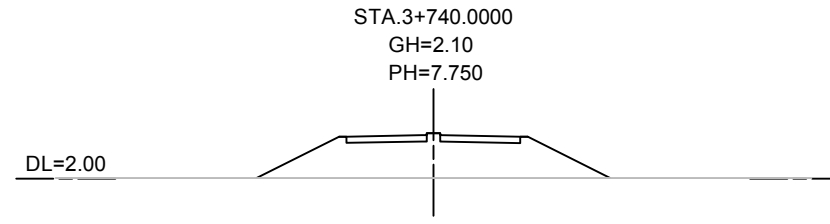
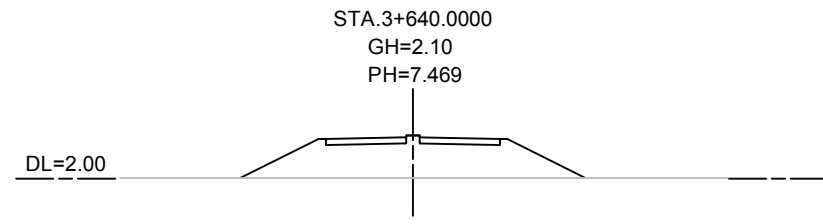
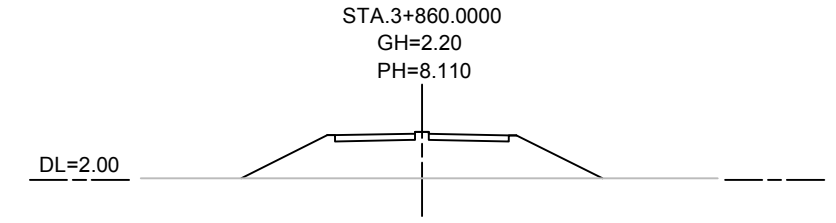
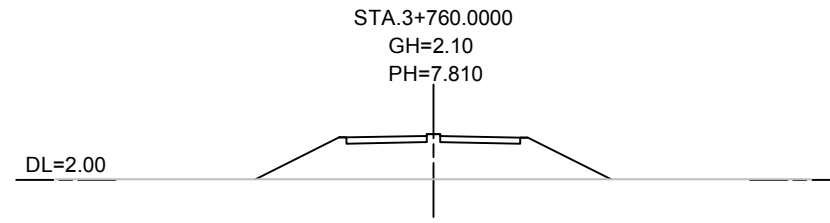
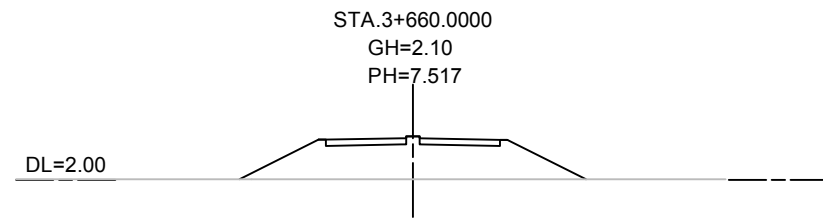
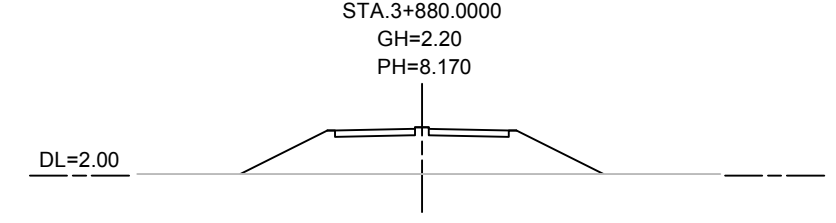
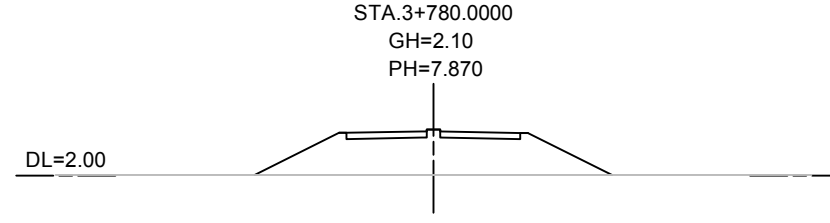
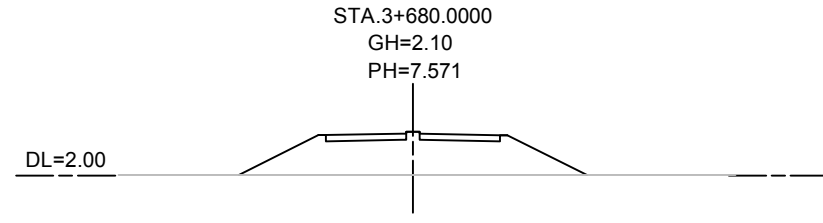
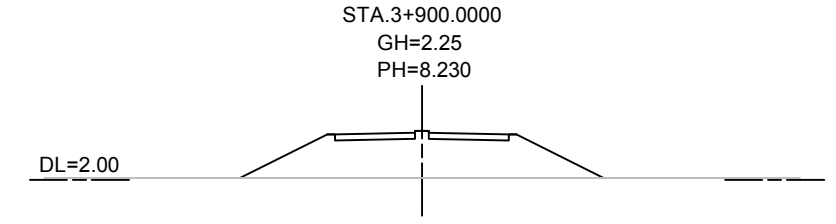
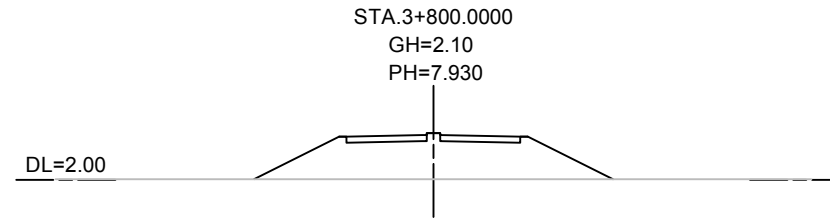
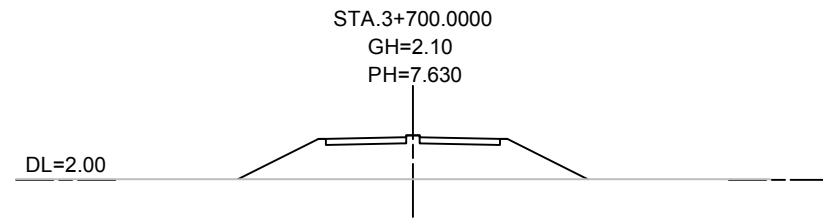
Cross Section( 12 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-12



# CROSS SECTION ( 13 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO., LTD.

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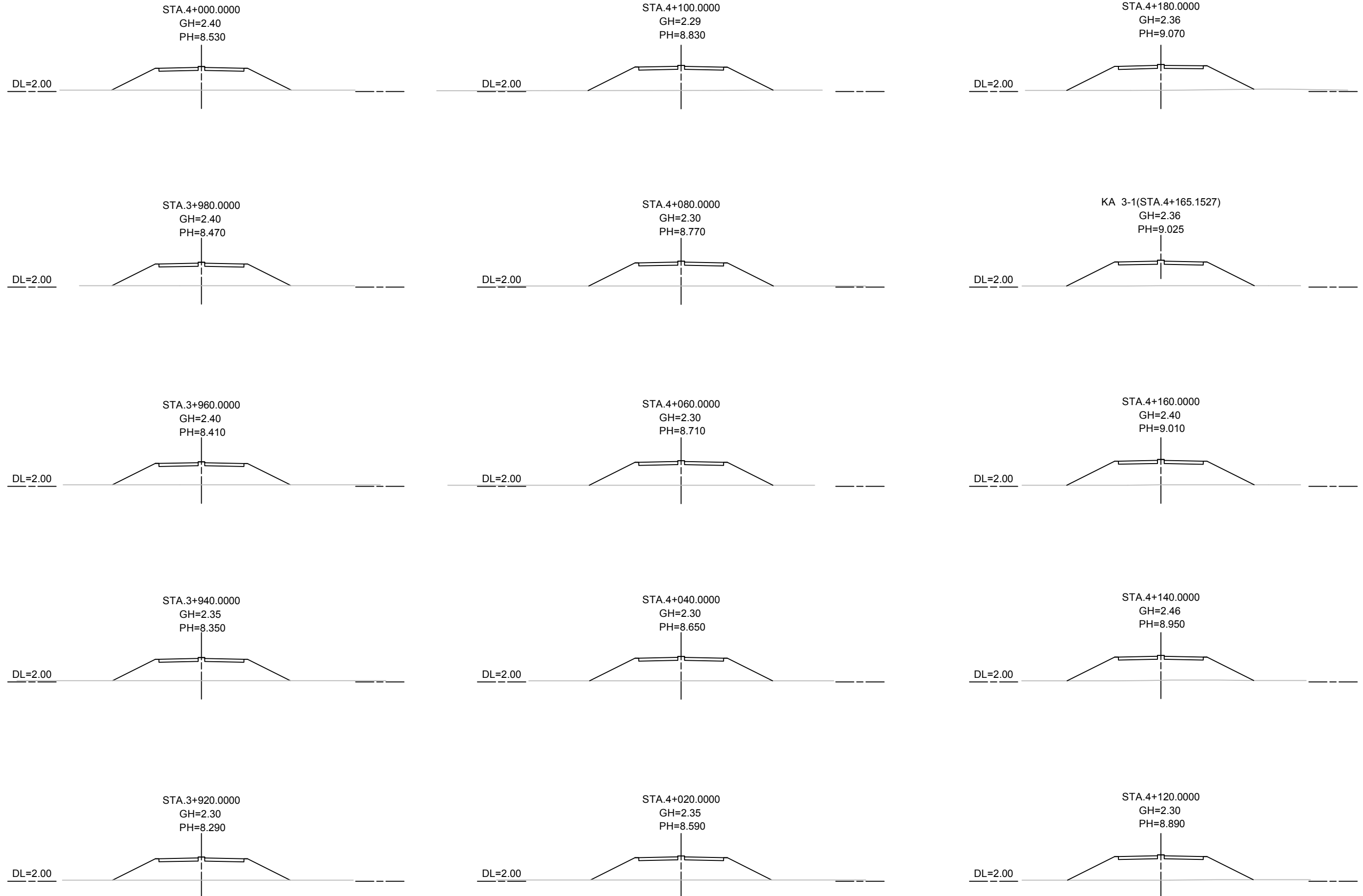
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 13 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-13

# CROSS SECTION ( 14 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

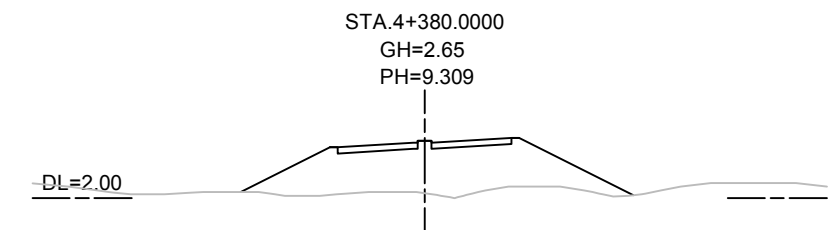
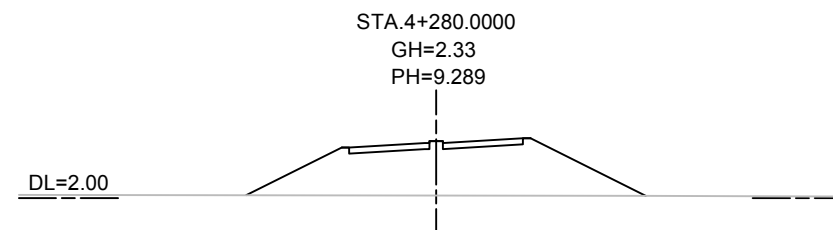
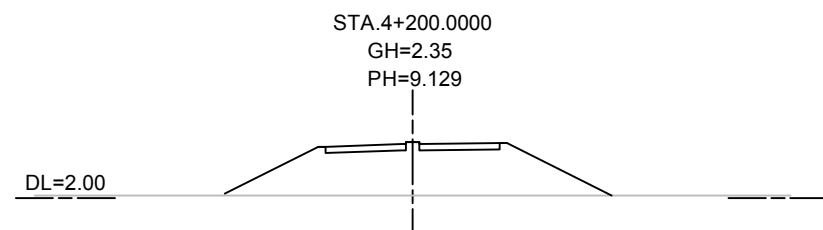
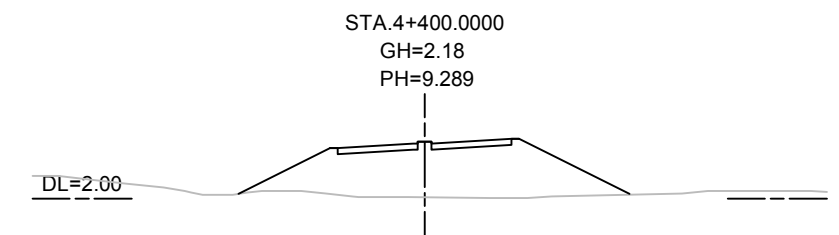
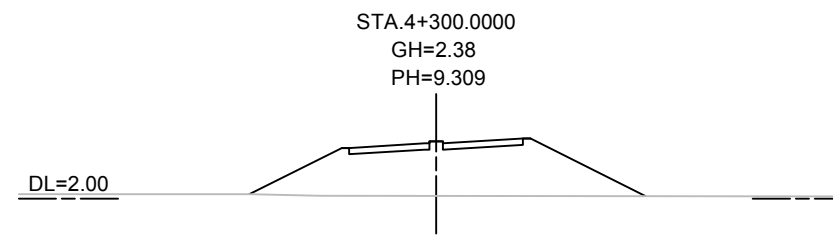
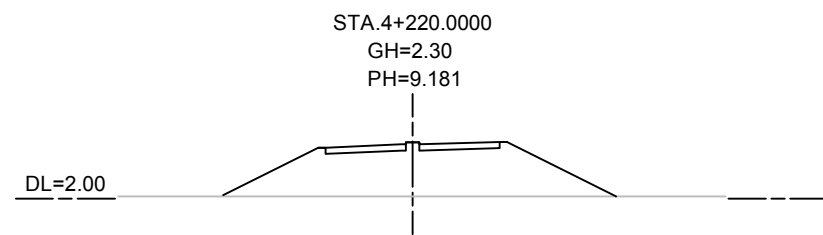
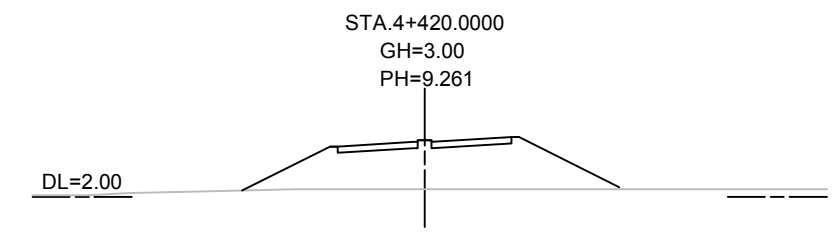
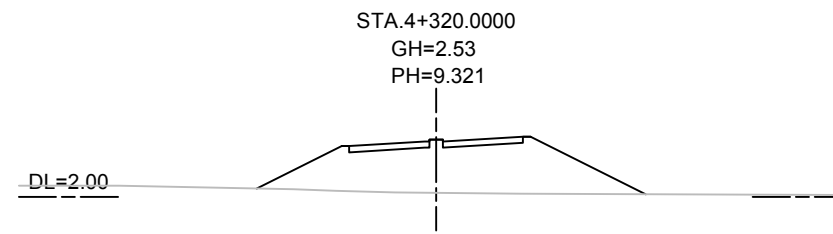
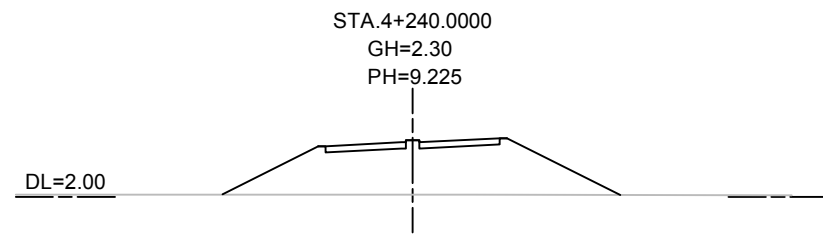
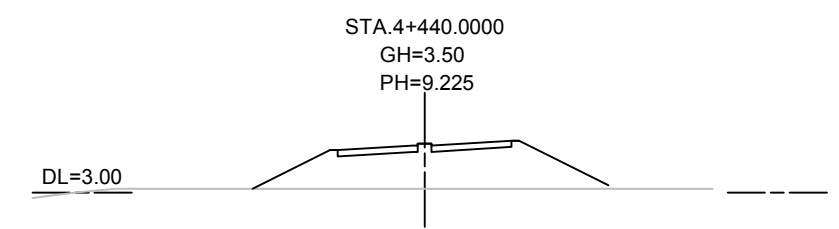
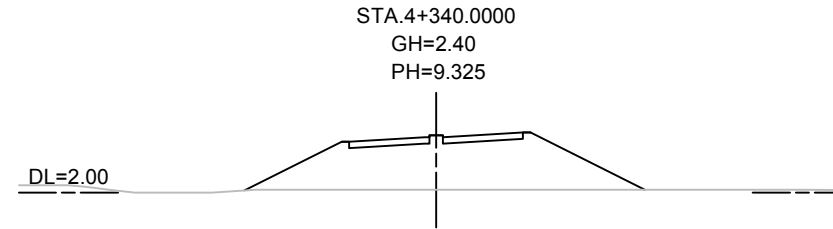
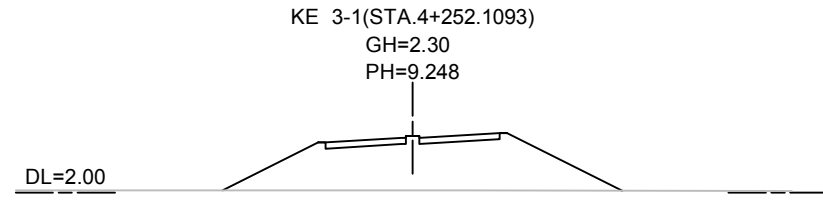
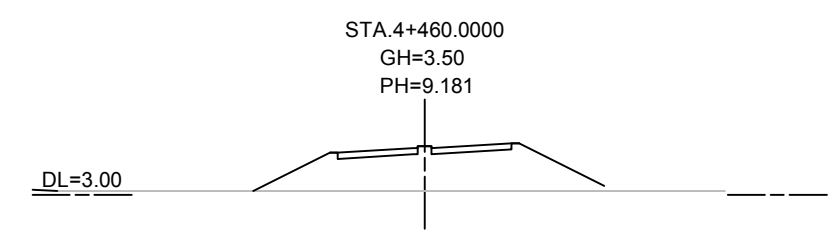
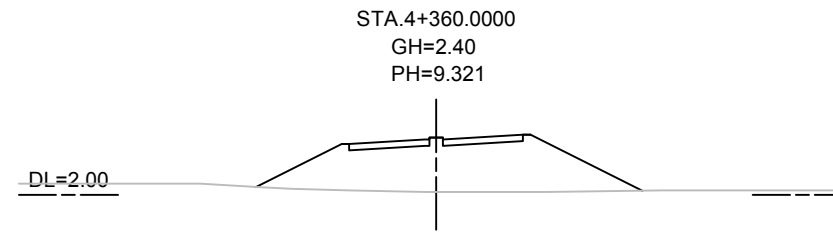
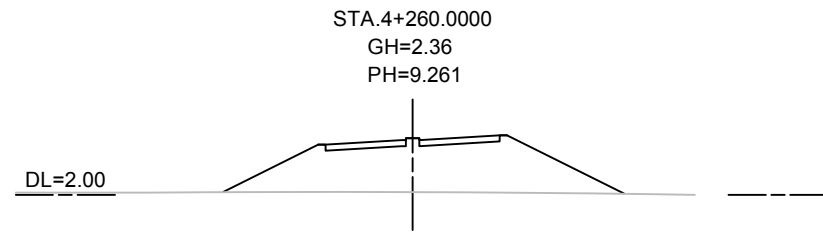
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 14 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-14

# CROSS SECTION ( 15 )

Scale 1:1000

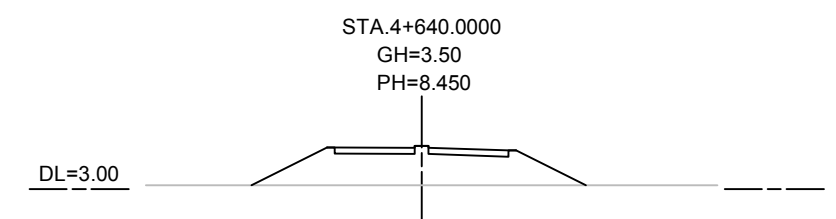
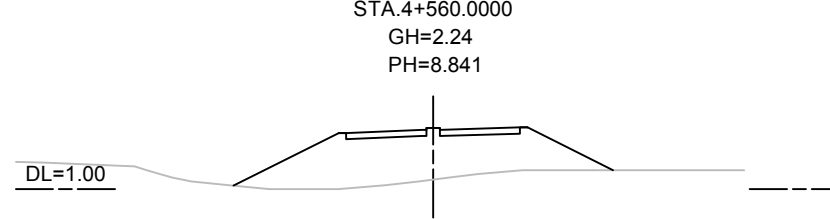
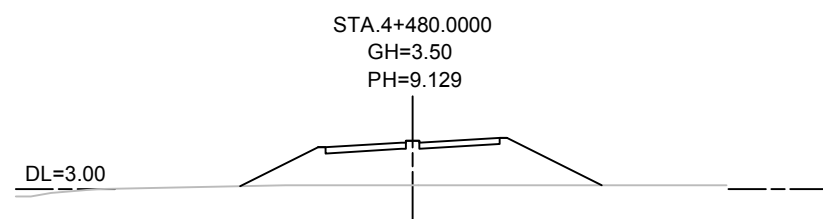
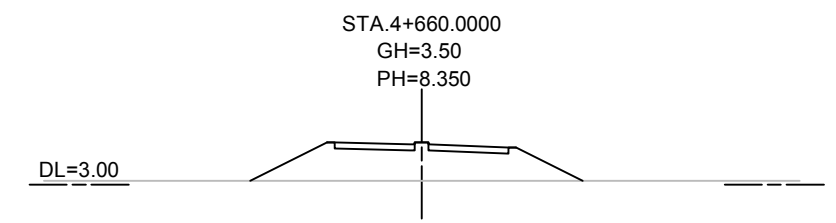
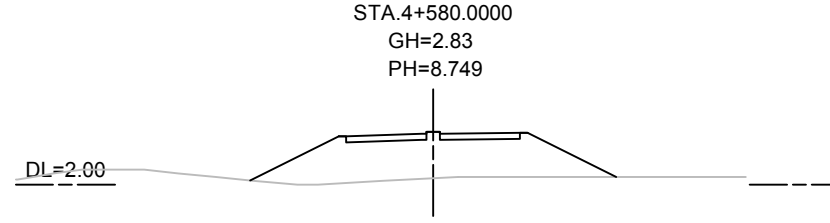
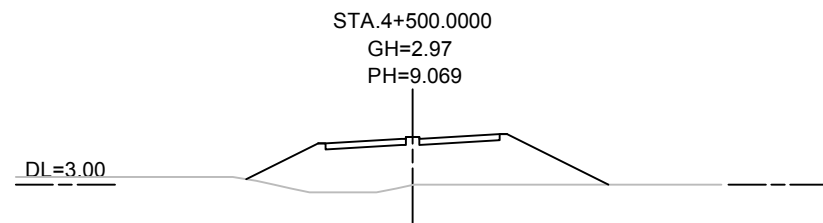
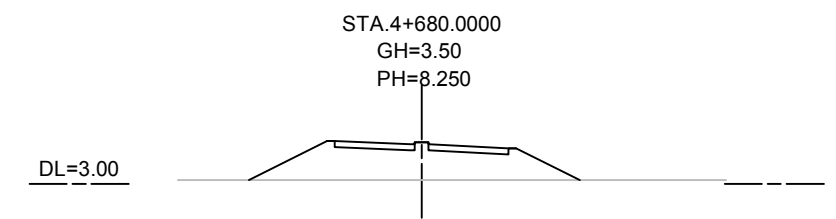
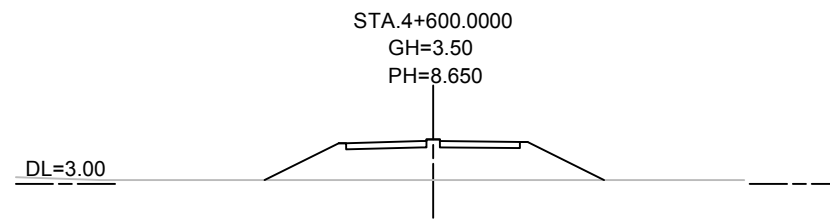
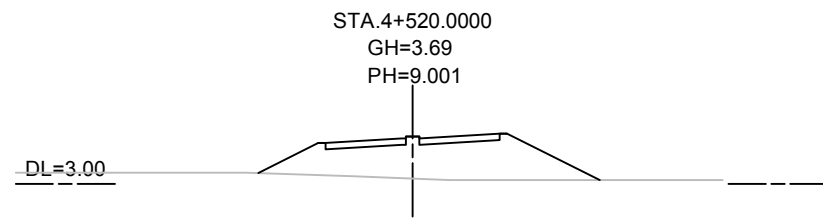
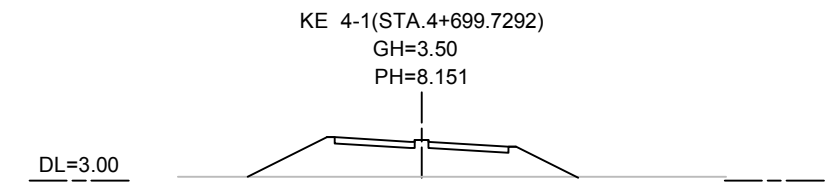
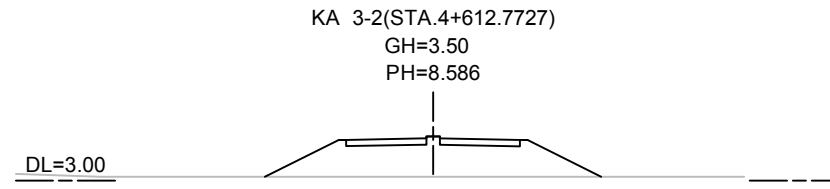
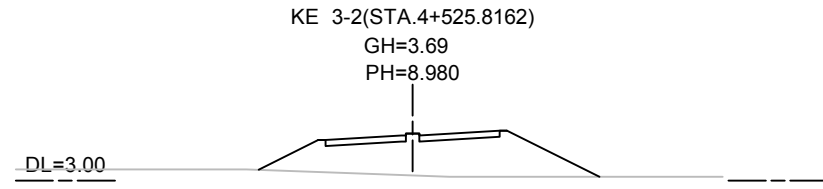
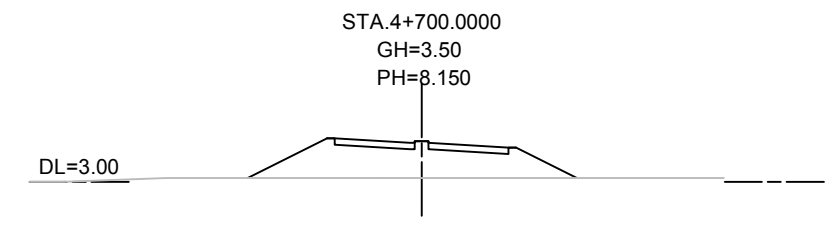
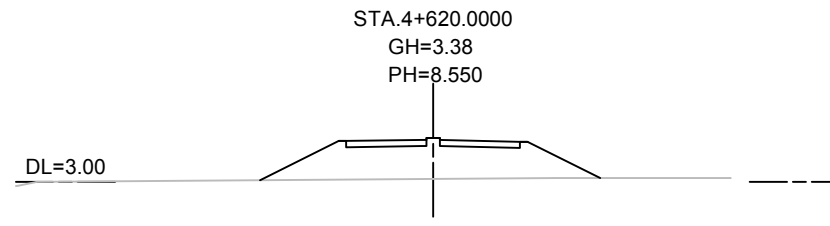
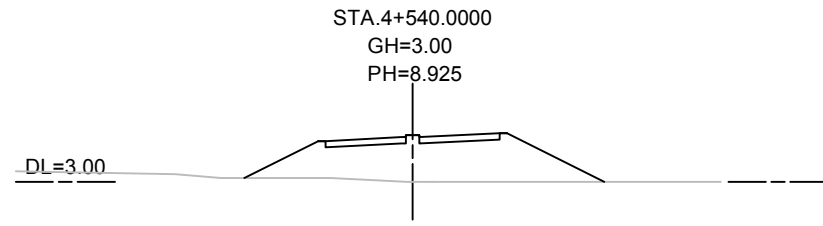


No	REVISION	DATE

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-15

# CROSS SECTION ( 16 )

Scale 1:1000

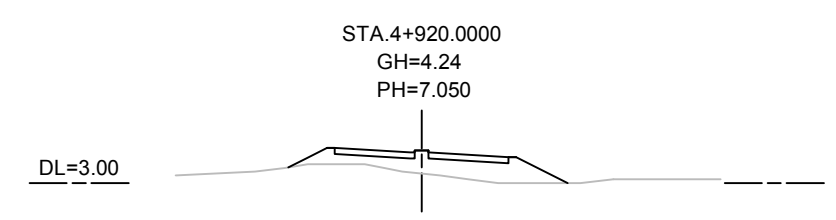
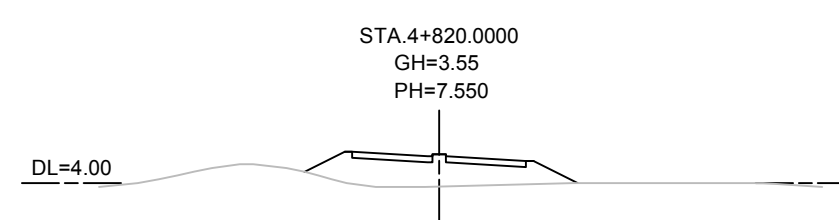
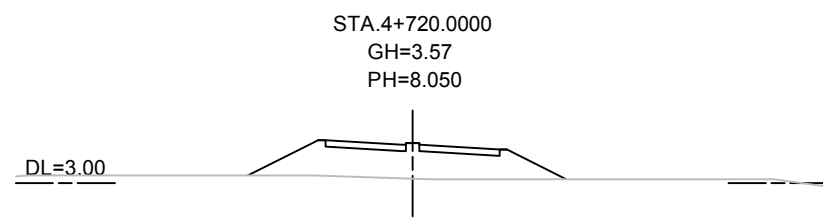
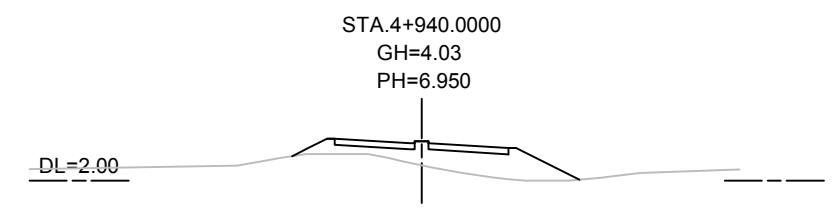
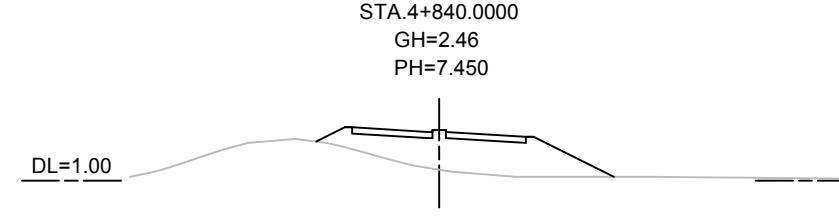
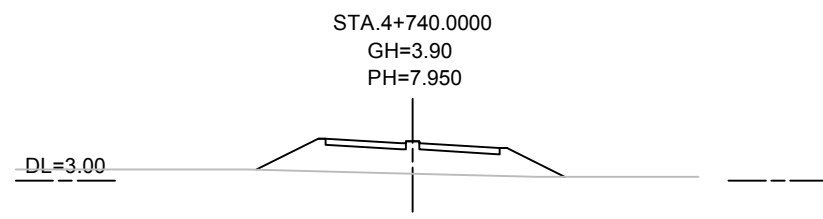
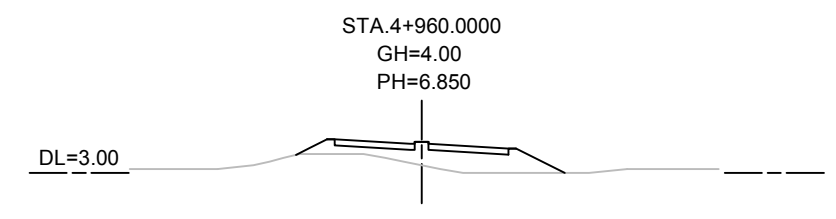
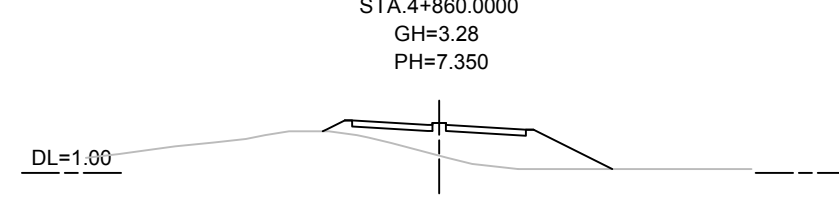
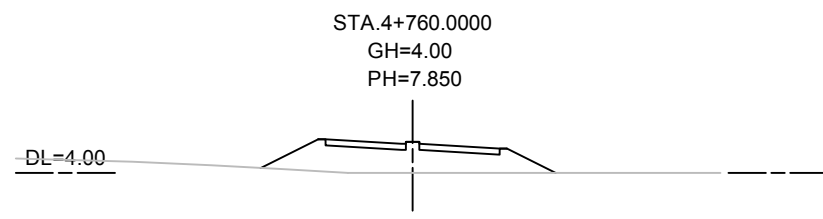
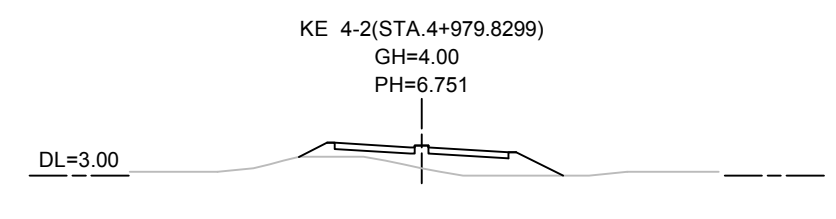
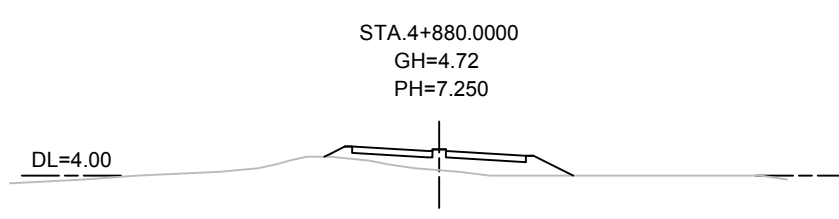
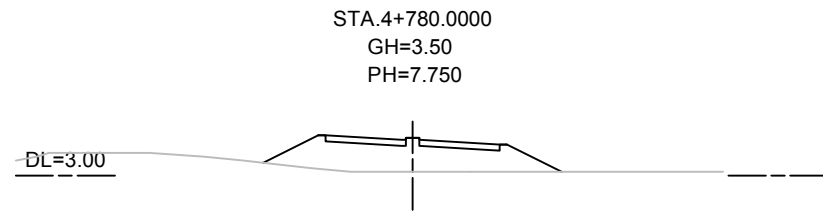
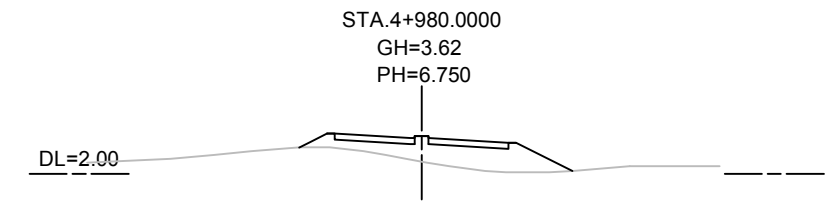
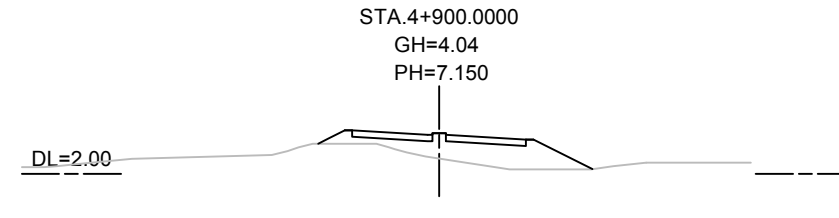
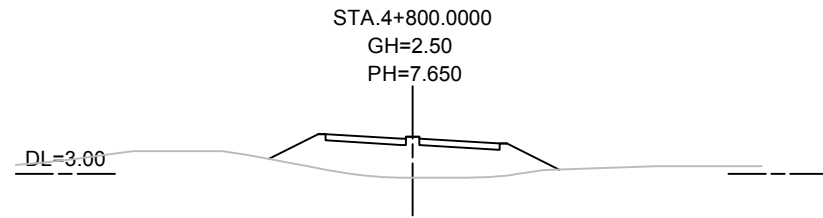


No	REVISION	DATE

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-16

# CROSS SECTION ( 17 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD.

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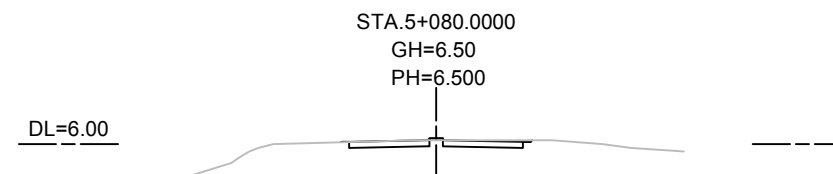
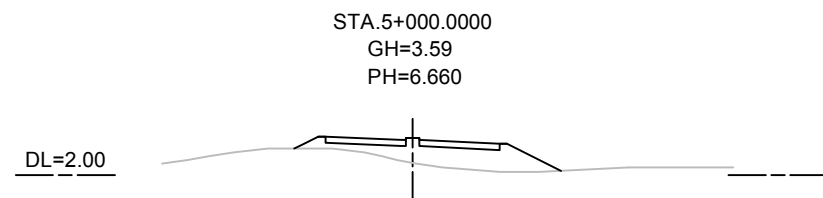
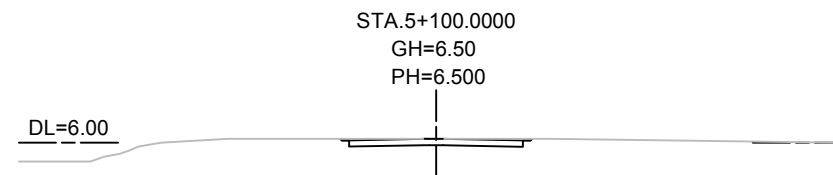
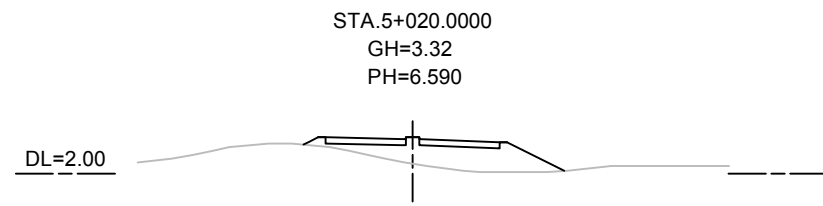
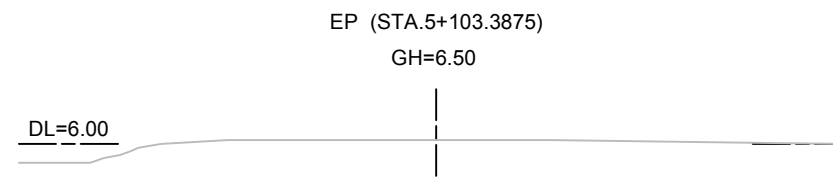
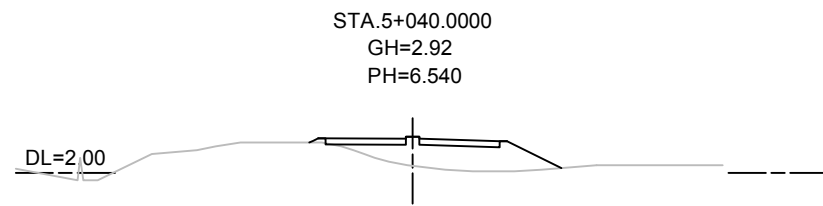
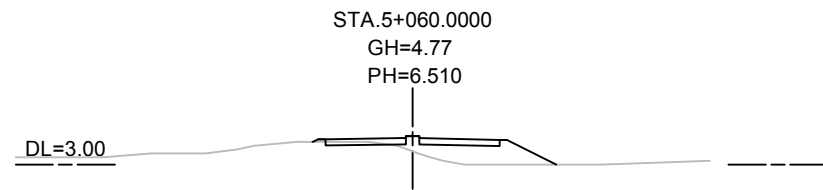
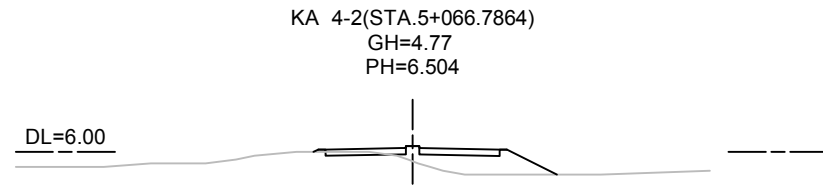
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 17 )  
KALNA BRIDGE (A4;N-806)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-17

# CROSS SECTION ( 18 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



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PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 18 )  
KALNA BRIDGE (A4;N-806)

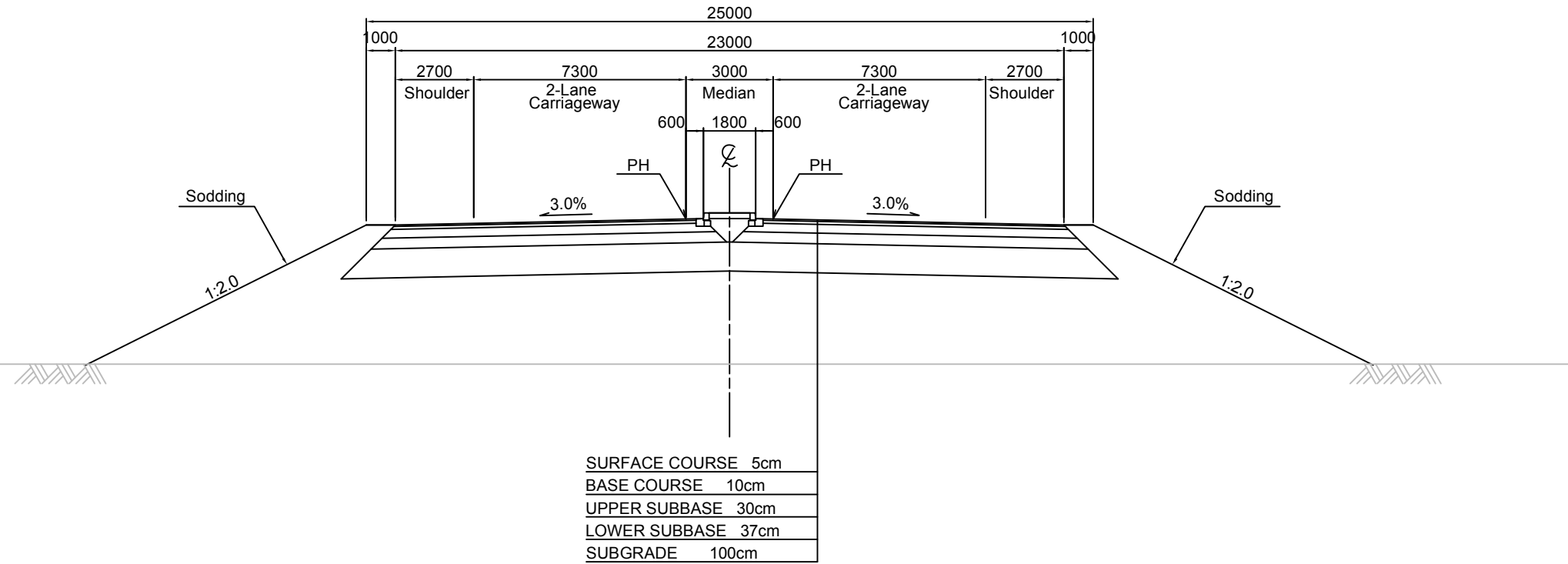
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A4/CS-18

## **C. Package A2**

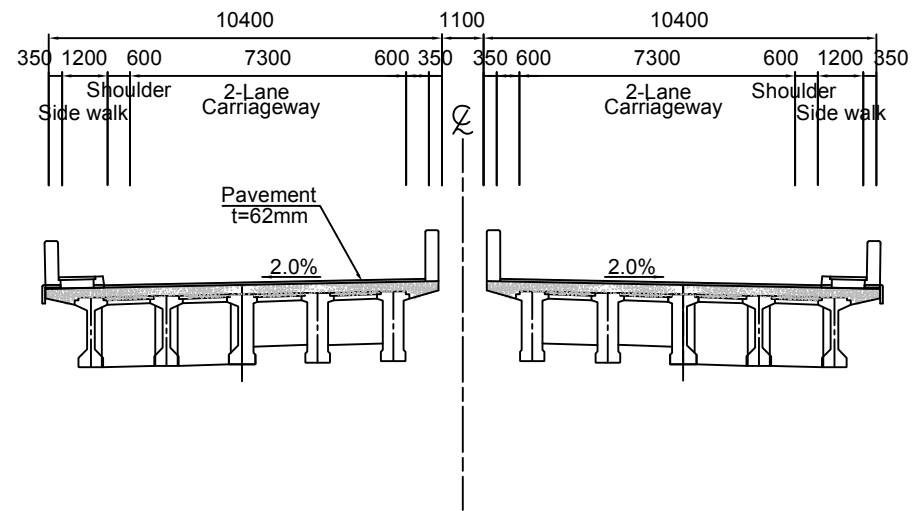
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Scale 1:200

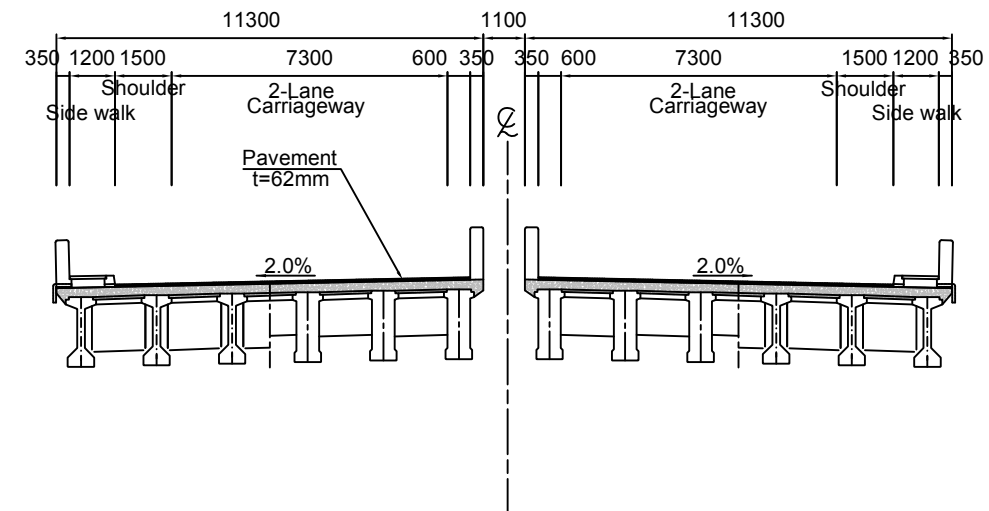
## Embankment Section



## Bridge Section (TULARAMPUR, GARAKOLA)



## Bridge Section (HAWAI KHALI)



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



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PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Typical Cross Section ( 1 )  
PackageA2

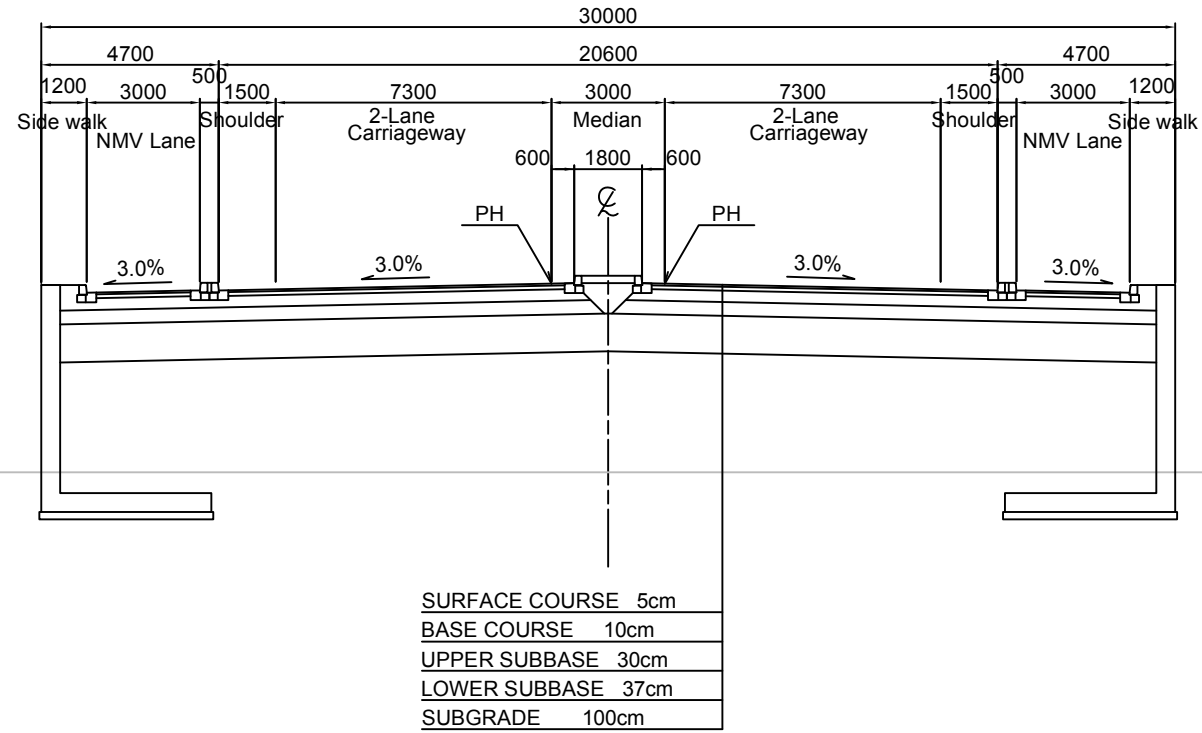
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A/TC-01



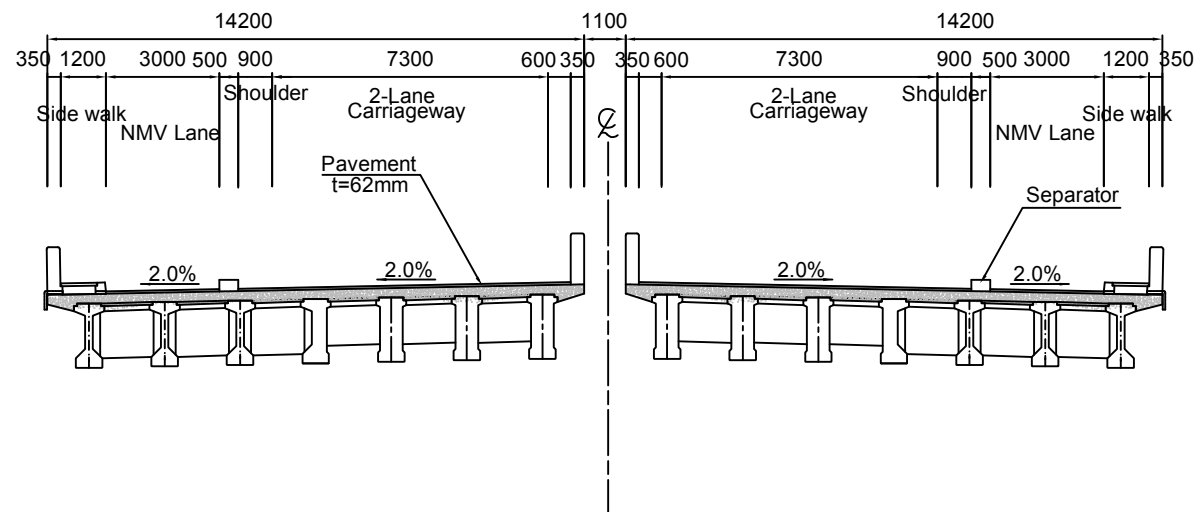
# TYPICAL CROSS SECTION ( 2 )

Scale 1:200

## Embankment Section (JHIKORGACHA)



## Bridge Section (JHIKORGACHA)



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



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ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
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No	REVISION	DATE
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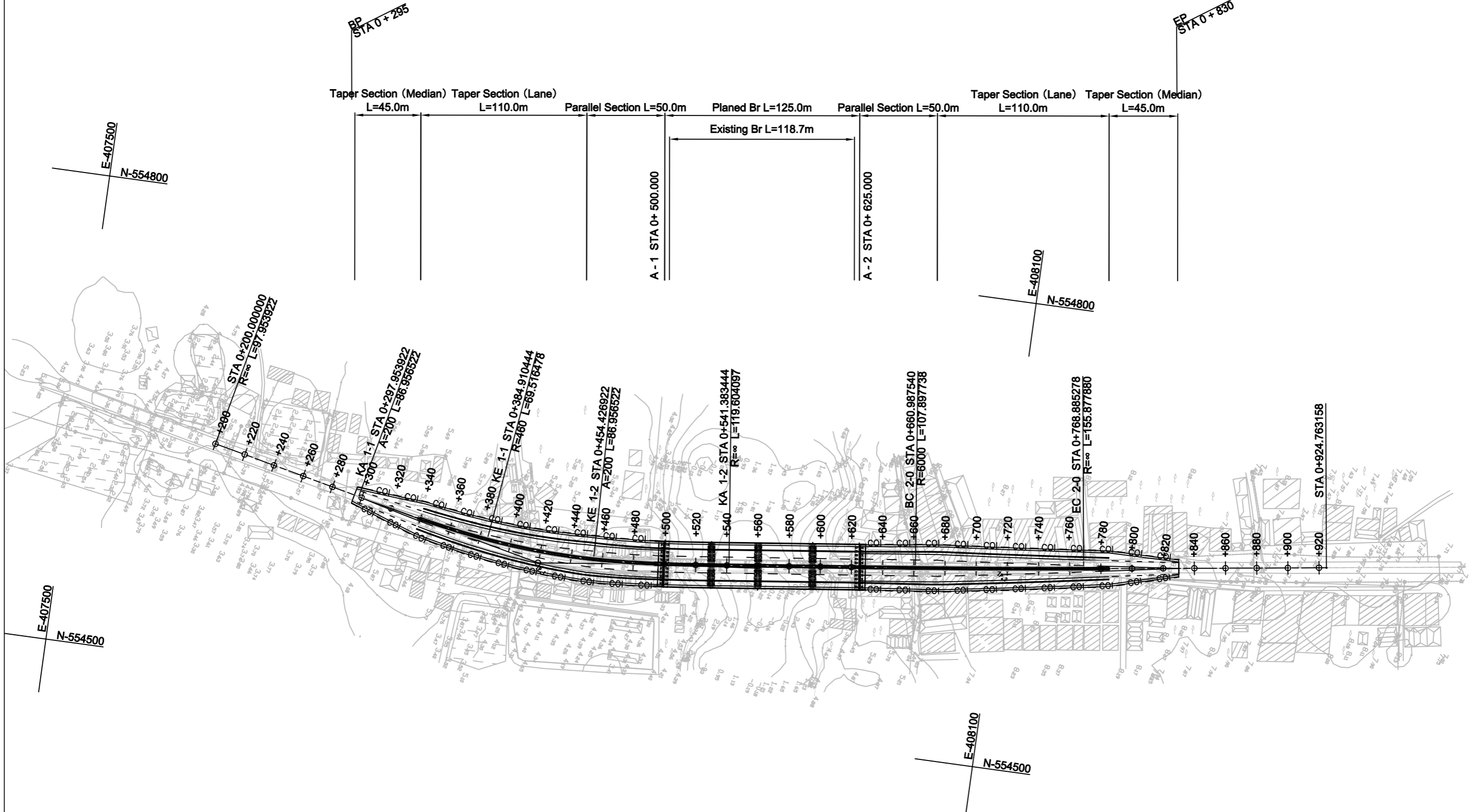
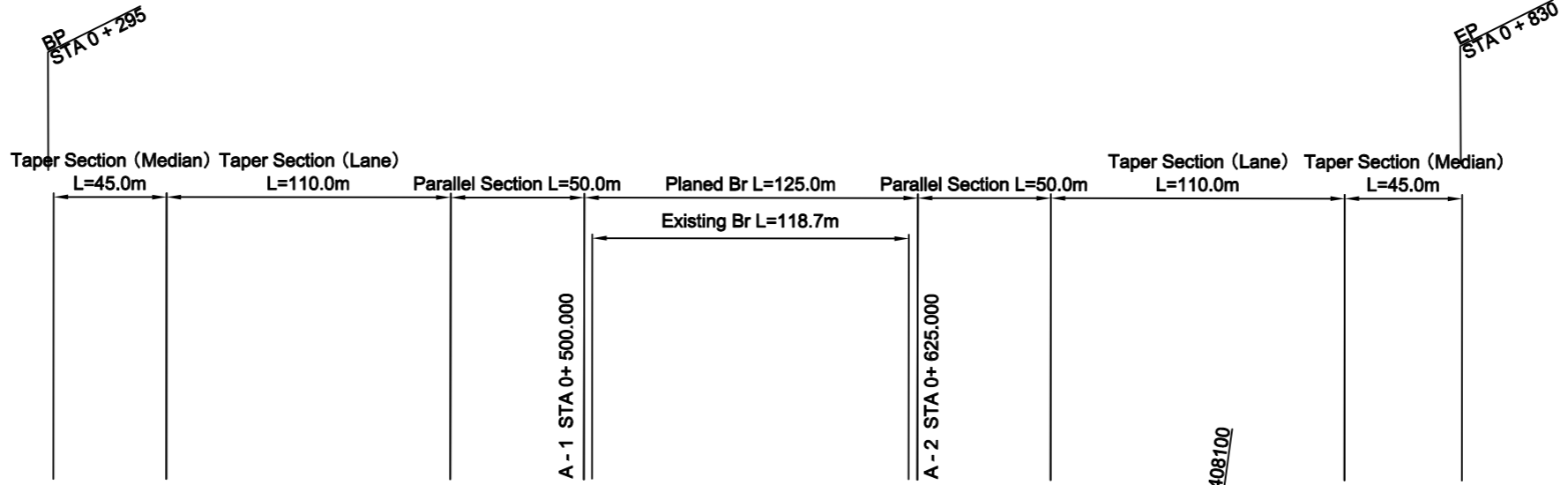
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Typical Cross Section ( 2 )  
PackageA2

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A/TC-02

# PLAN

Scale 1:2500



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY  
ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD

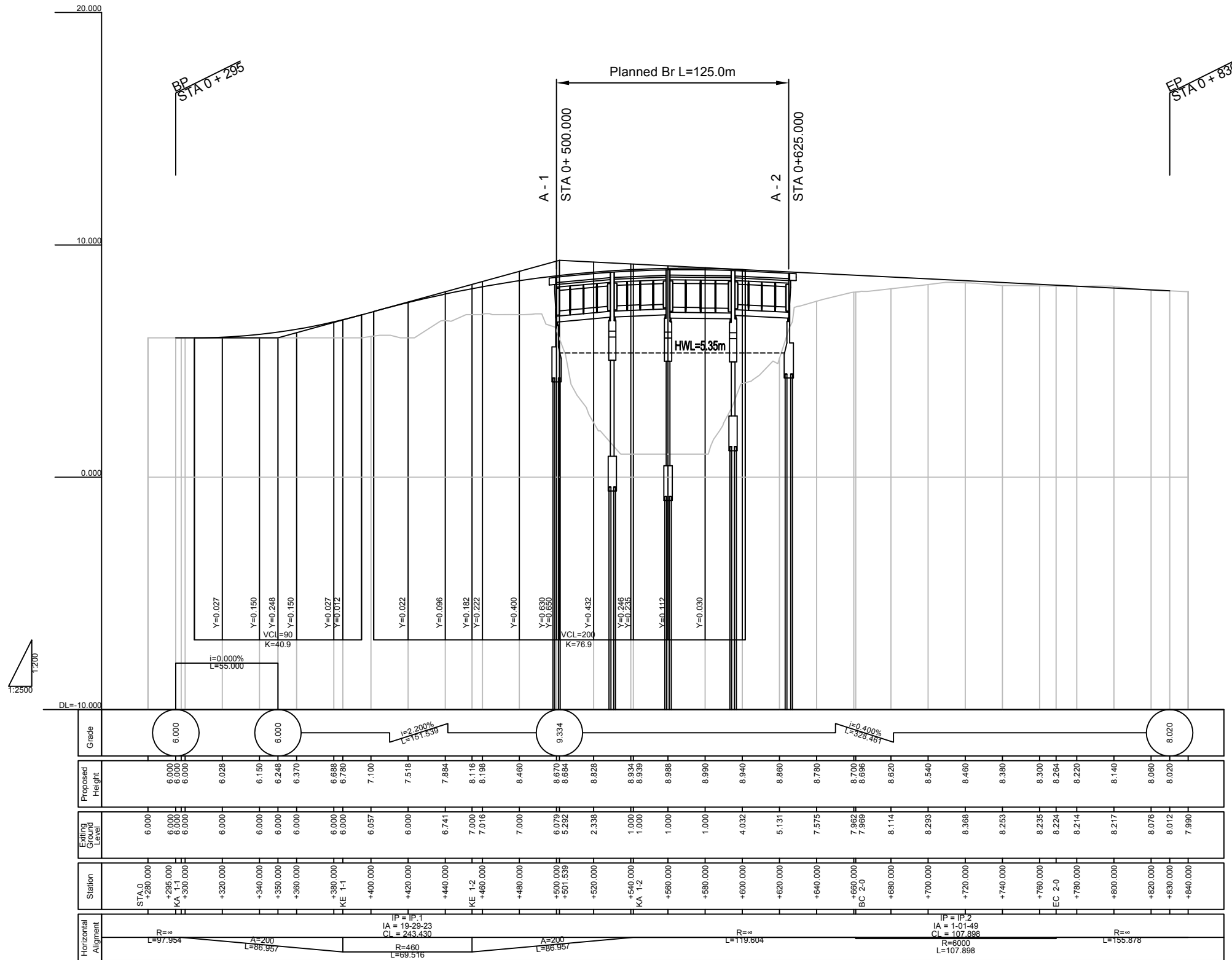
No	REVISION	DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
PLAN  
JHIKORGACHA BRIDGE (A1;N-706\_14b)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A1/PL-01

# PROFILE

Scale H 1:2500  
V 1:200



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO., LTD



No REVISION DATE

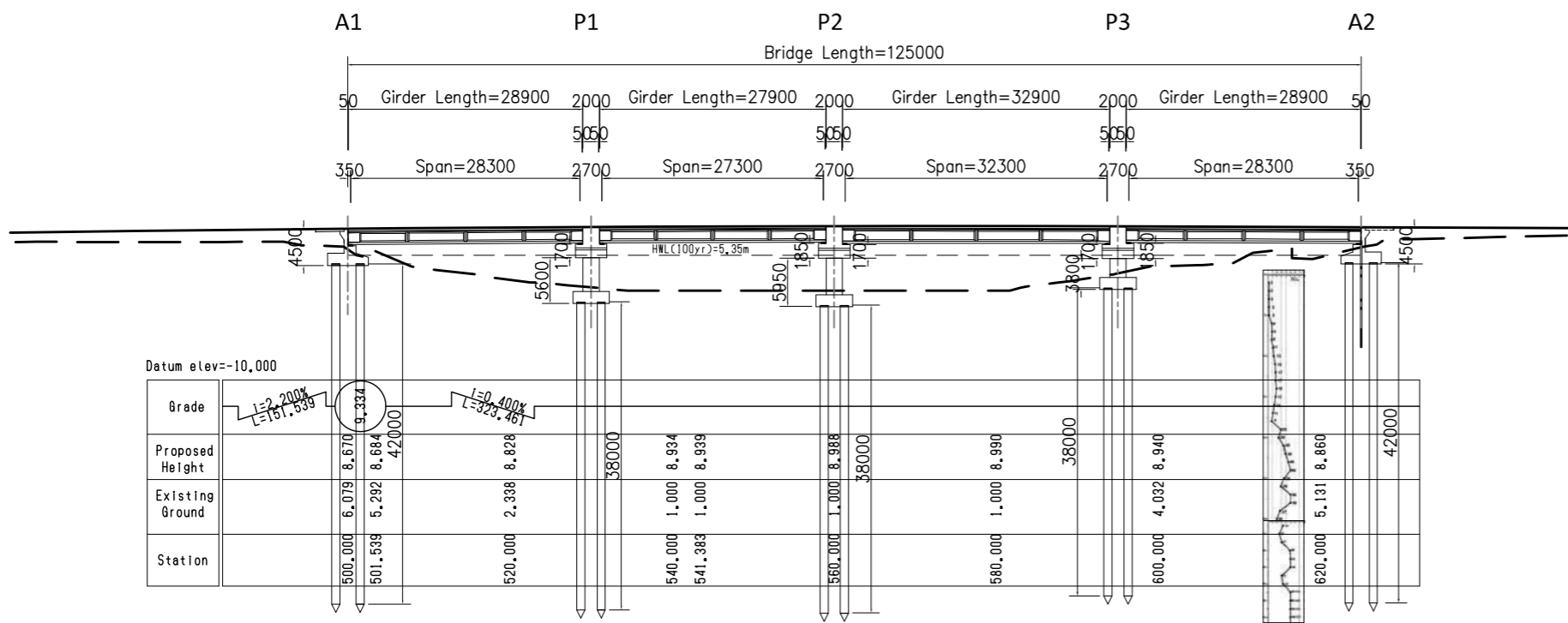
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PROFILE  
JIKORGACHA BRIDGE (A1;N-706\_14b)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A1/PR-01

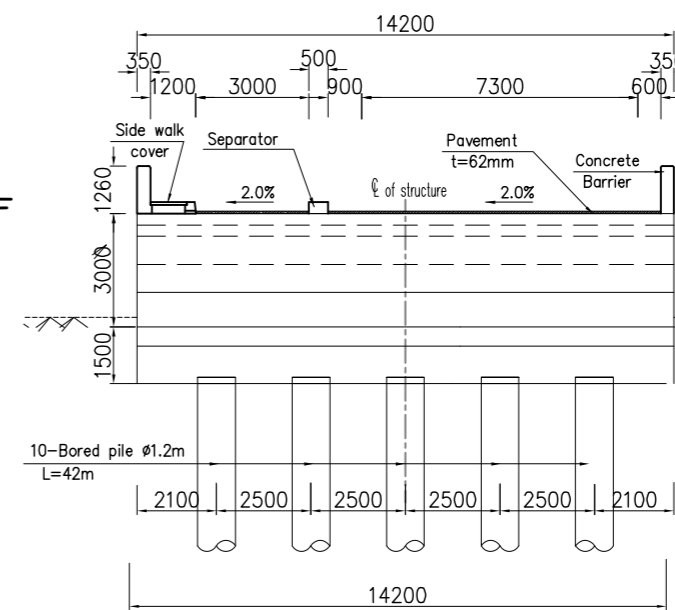
PROFILE

SCALE 1:800



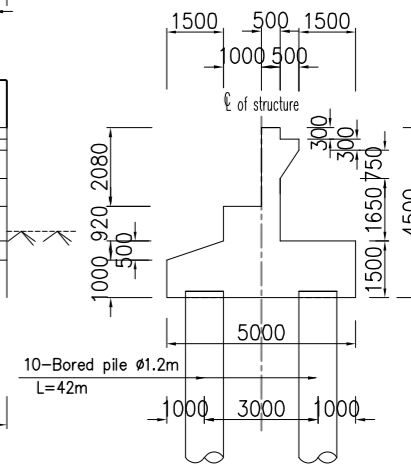
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SCALE 1:200



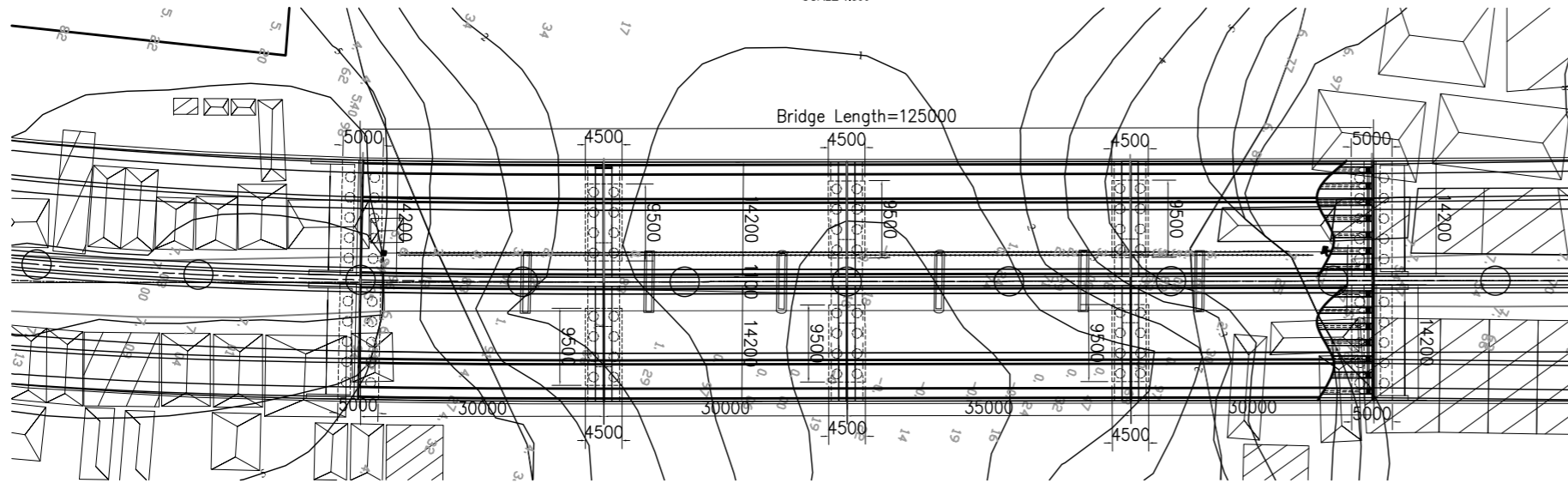
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SCALE 1:200



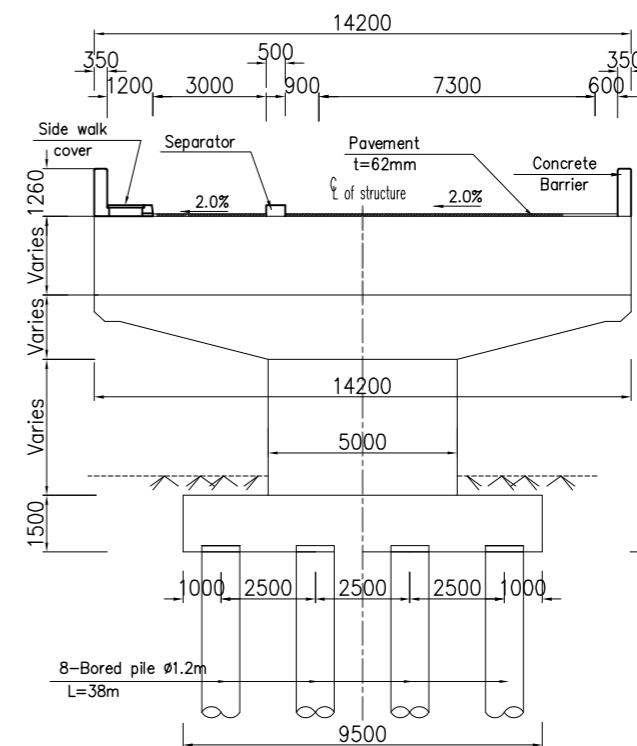
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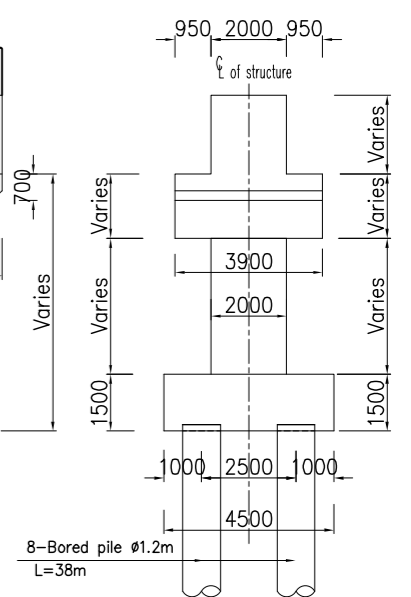
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SCALE 1:200



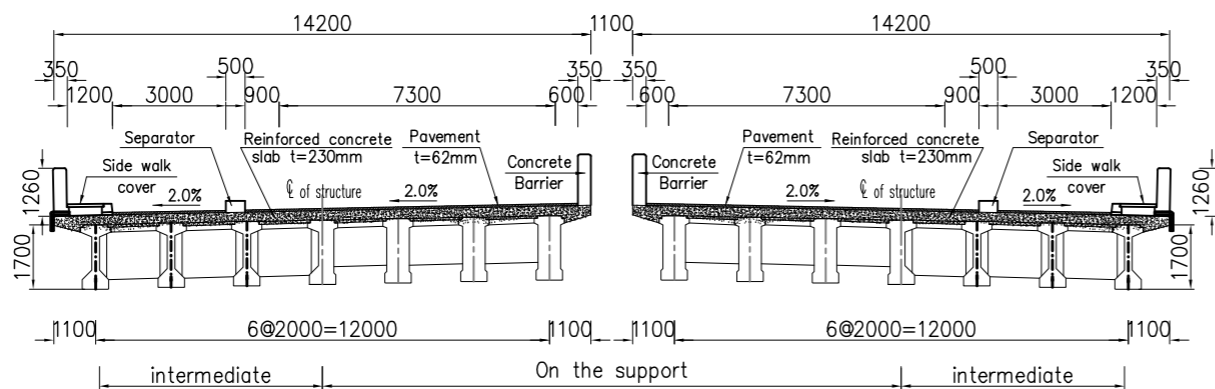
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SCALE 1:200



CROSS SECTION

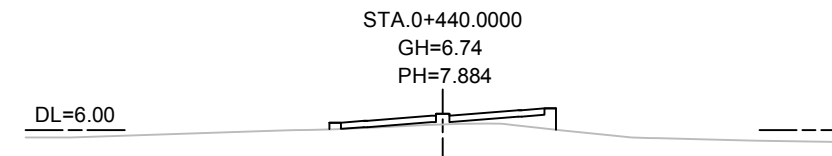
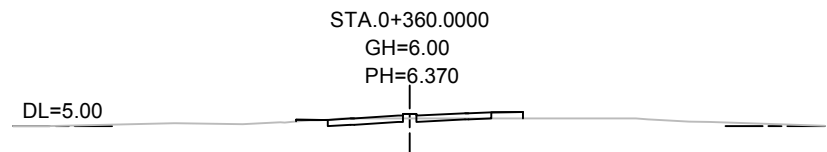
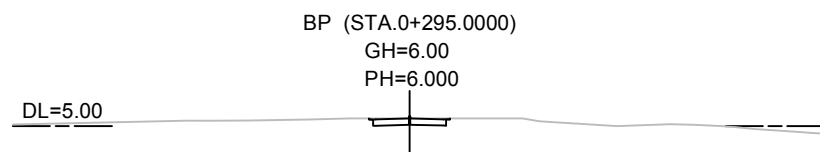
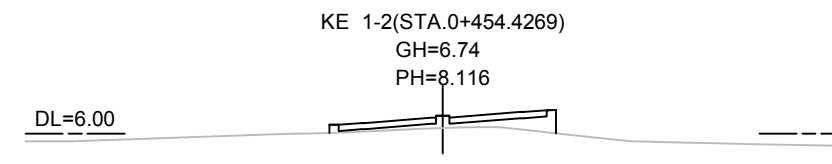
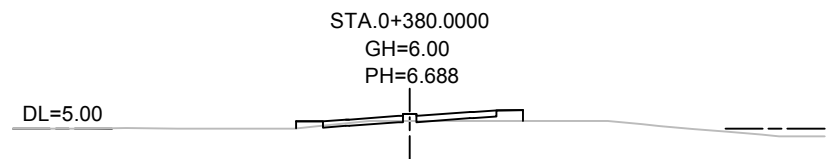
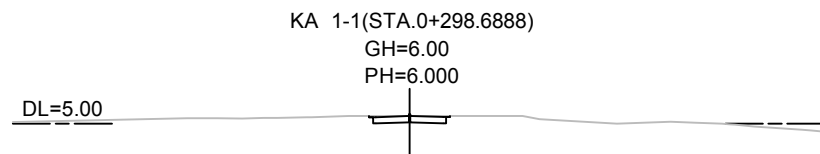
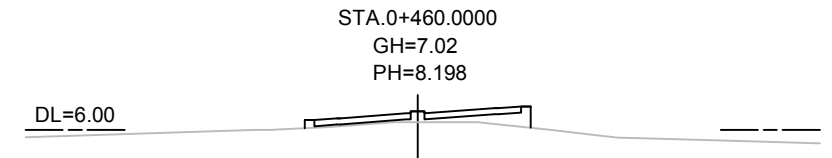
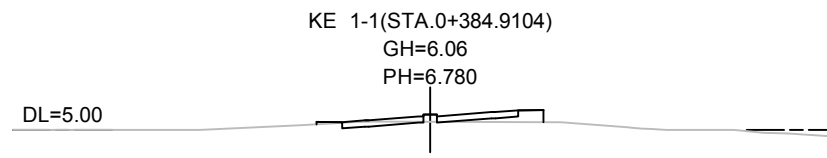
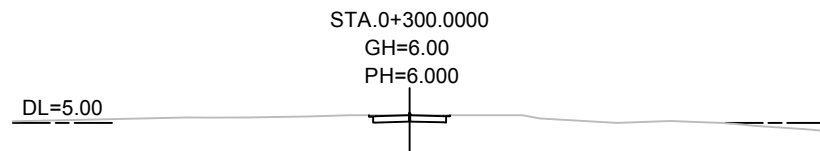
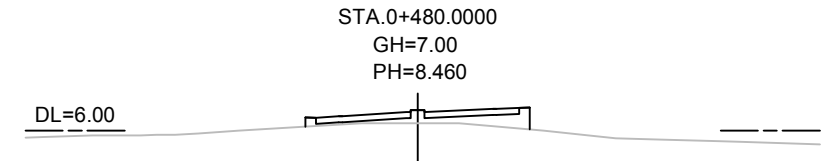
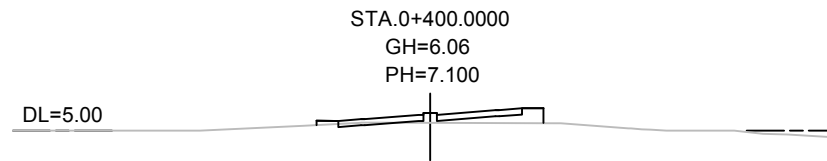
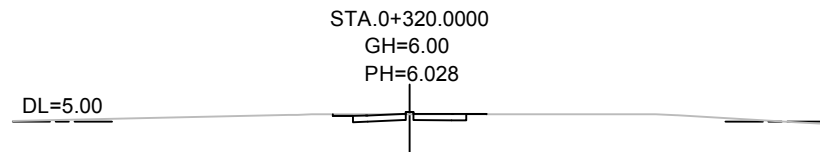
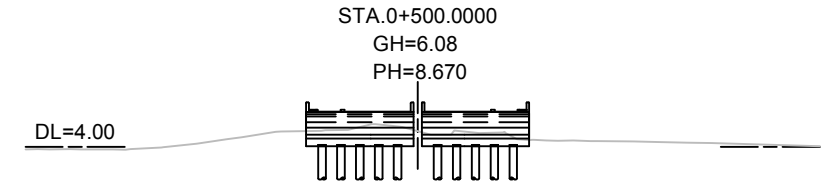
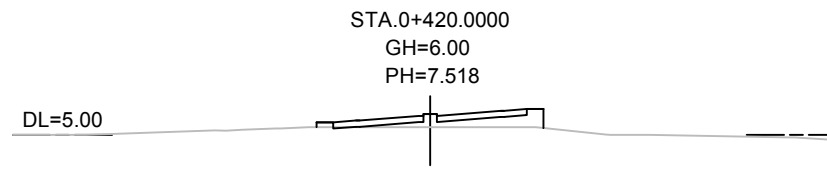
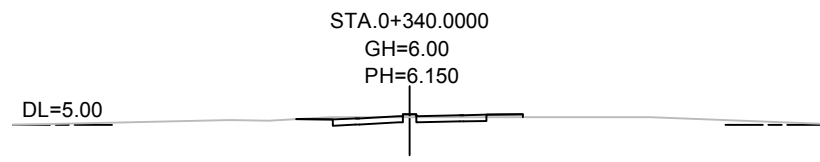
SCALE 1:200



No	REVISION	DATE

# CROSS SECTION ( 1 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD

No	REVISION	DATE

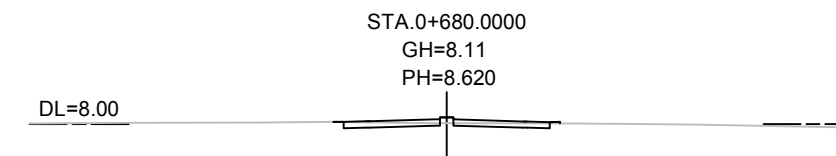
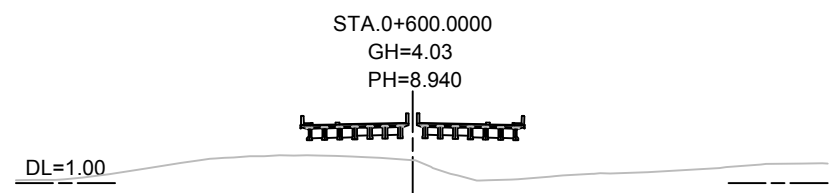
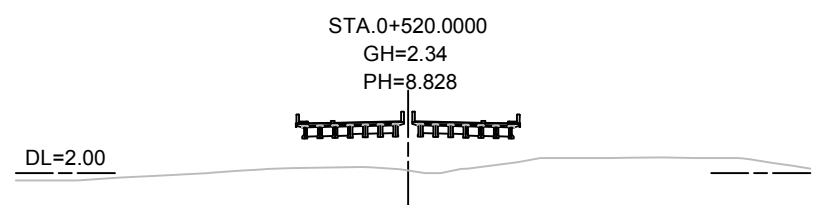
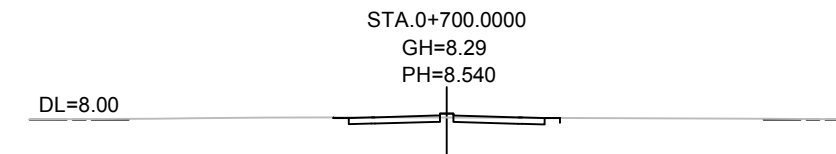
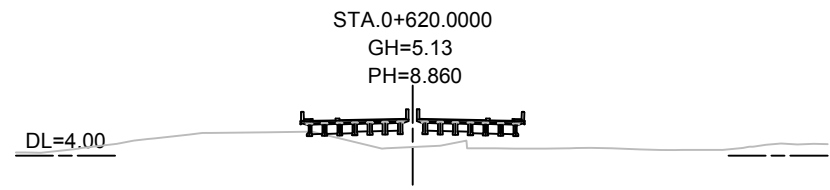
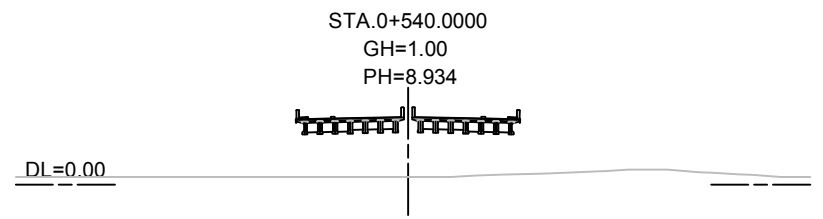
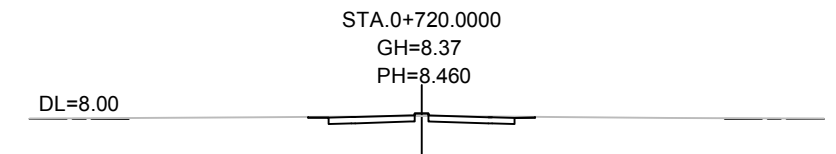
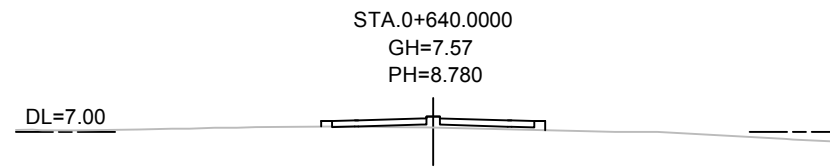
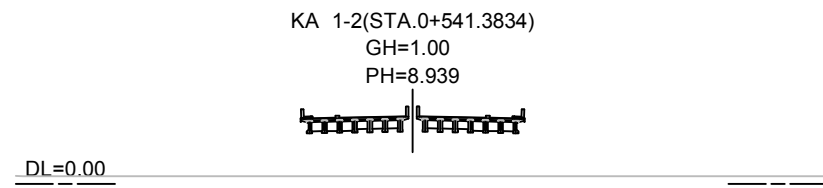
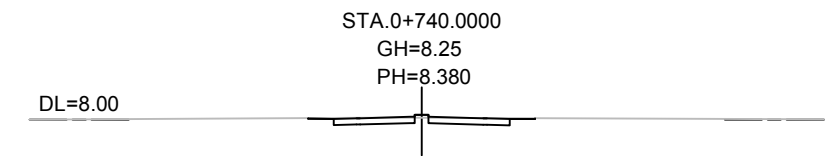
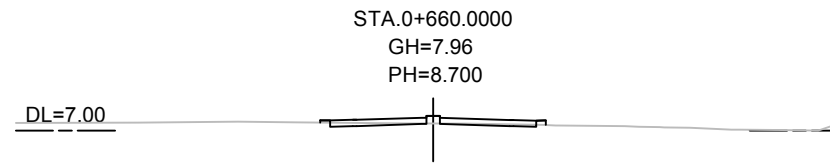
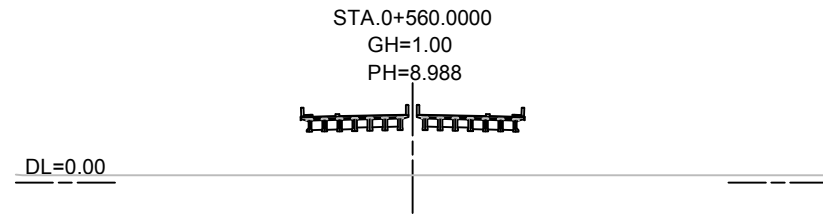
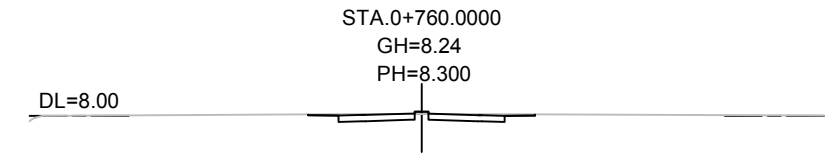
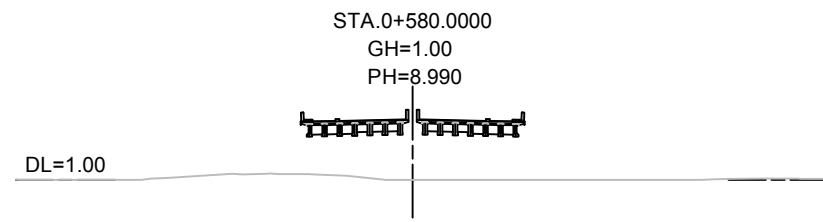
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 1 )  
JHIKORGACHA BRIDGE (A1;N-706\_14b)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A1/CS-01

# CROSS SECTION ( 2 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD. **PADECO**  
PADECO CO.,LTD.

No	REVISION	DATE
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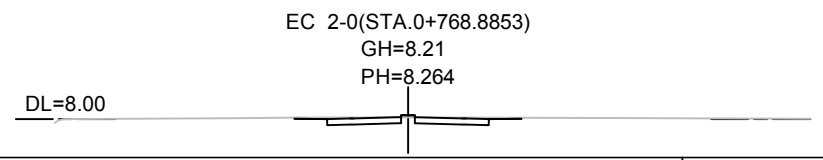
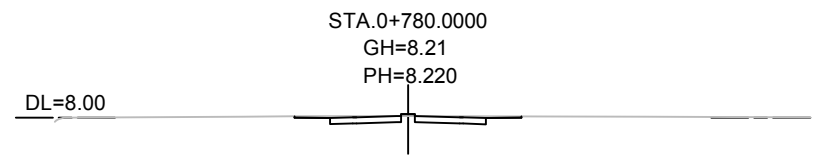
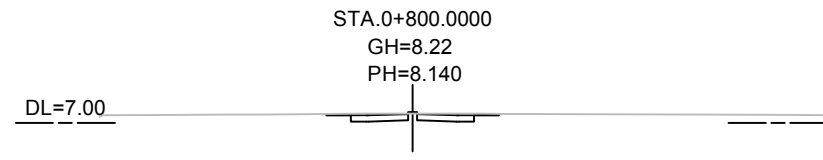
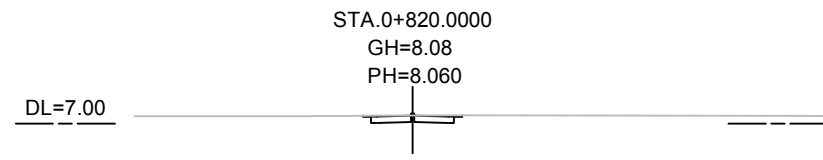
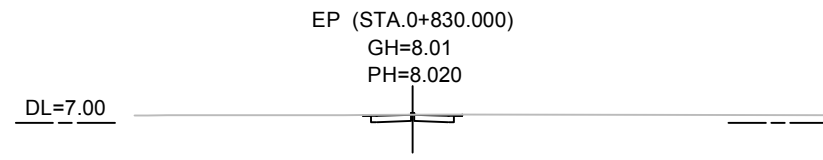
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 2 )  
JHIKORGACHA BRIDGE (A1;N-706\_14b)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A1/CS-02

# CROSS SECTION ( 3 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

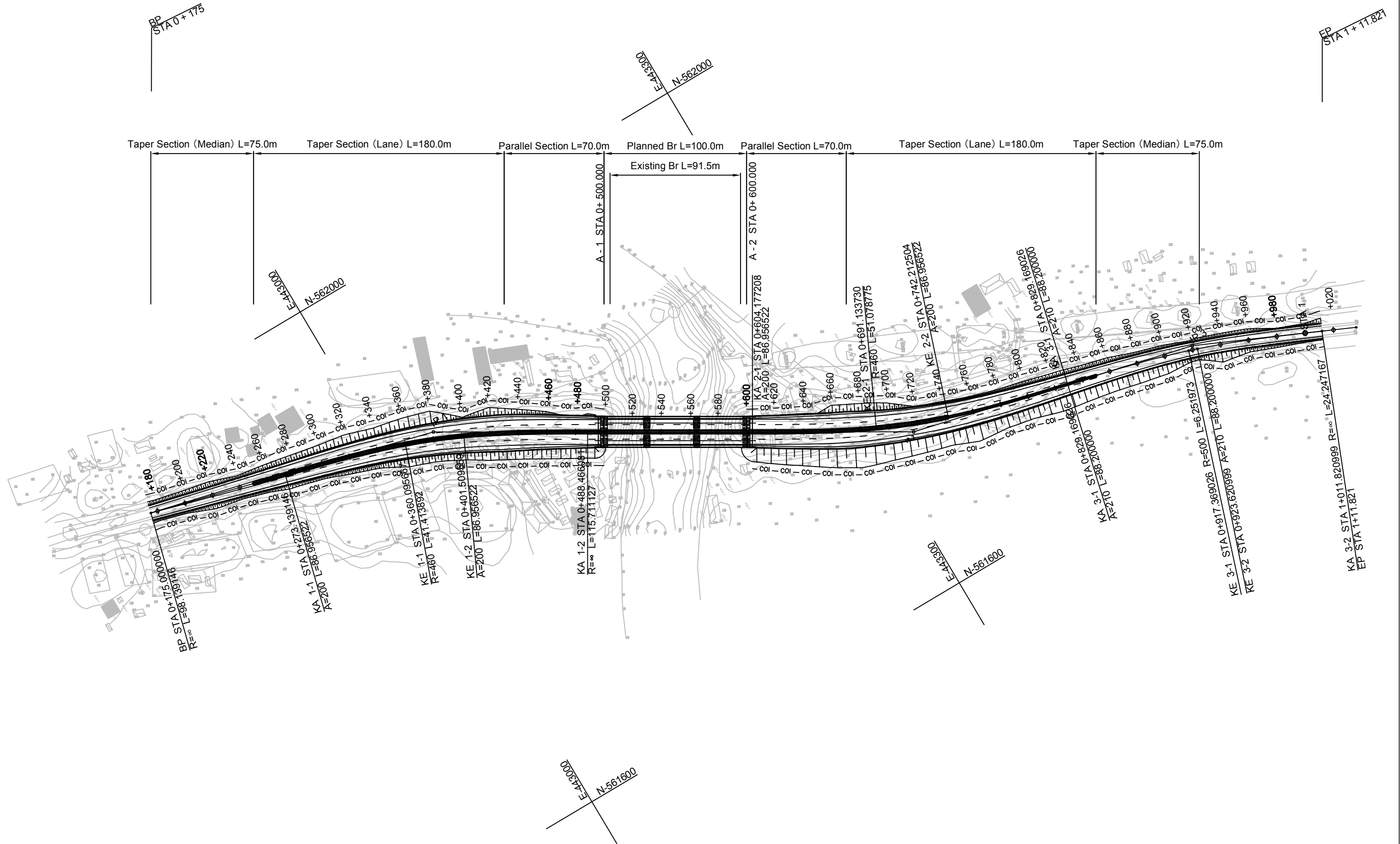
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 3 )  
JHIKORGACHA BRIDGE (A1;N-706\_14b)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A1/CS-03

# PLAN

Scale 1:2500



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JICA JAPAN INTERNATIONAL COOPERATION AGENCY  
ORIENTAL CONSULTANTS GLOBAL CO., LTD. PADECO  
PADECO CO.,LTD

No	REVISION	DATE

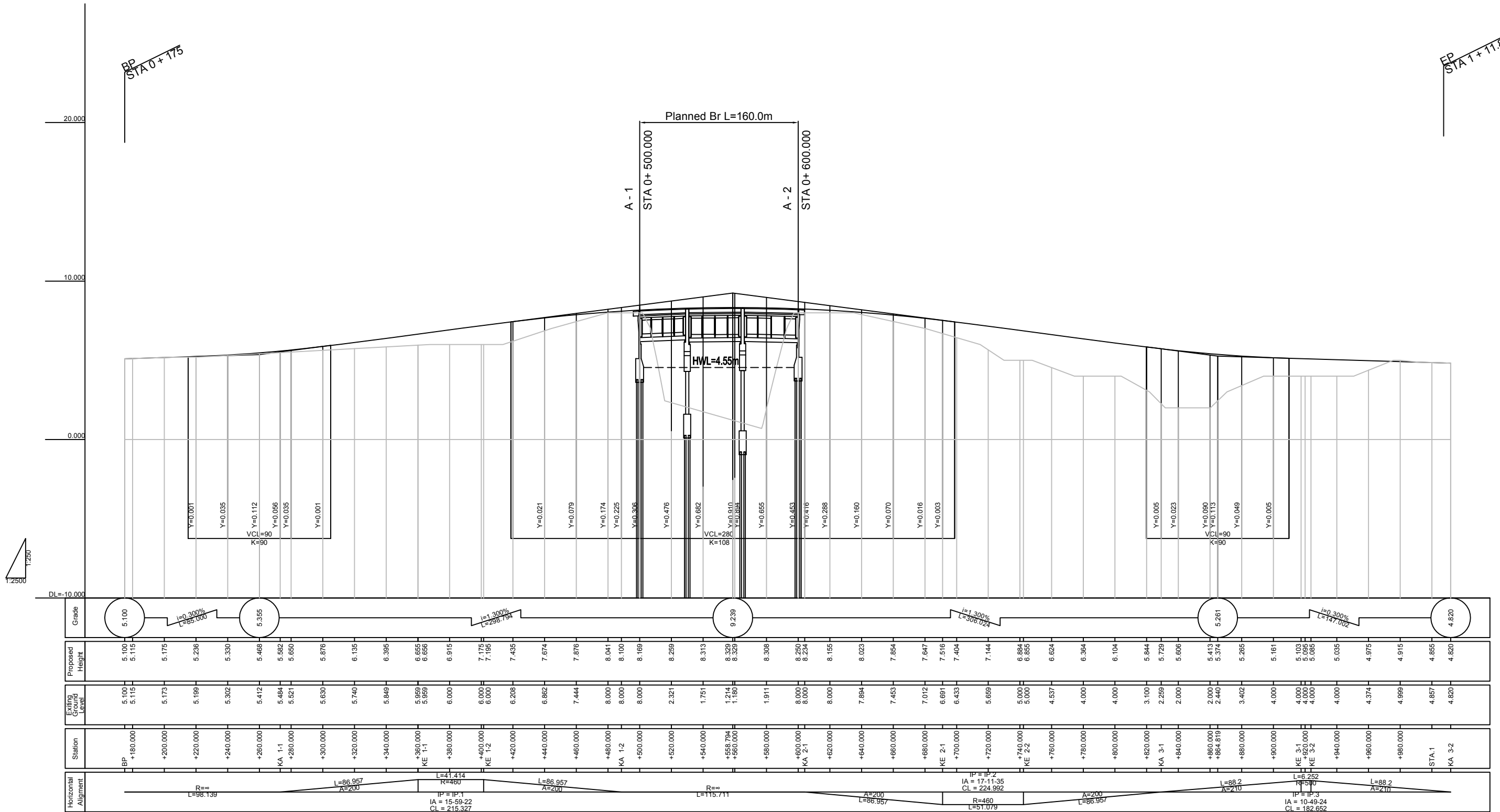
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
PLAN  
TULARAMPUR BRIDGE (A2;R-750\_25a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A2/PL-01



# PROFILE

Scale H 1:2500  
V 1:250



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO., LTD

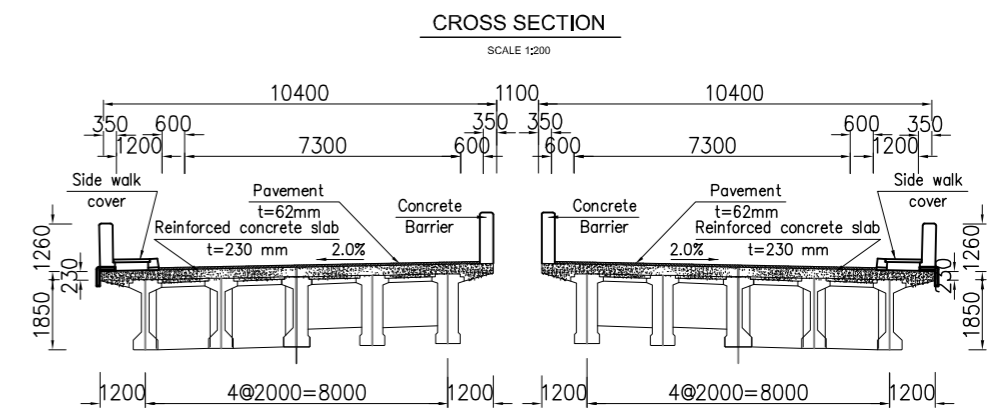
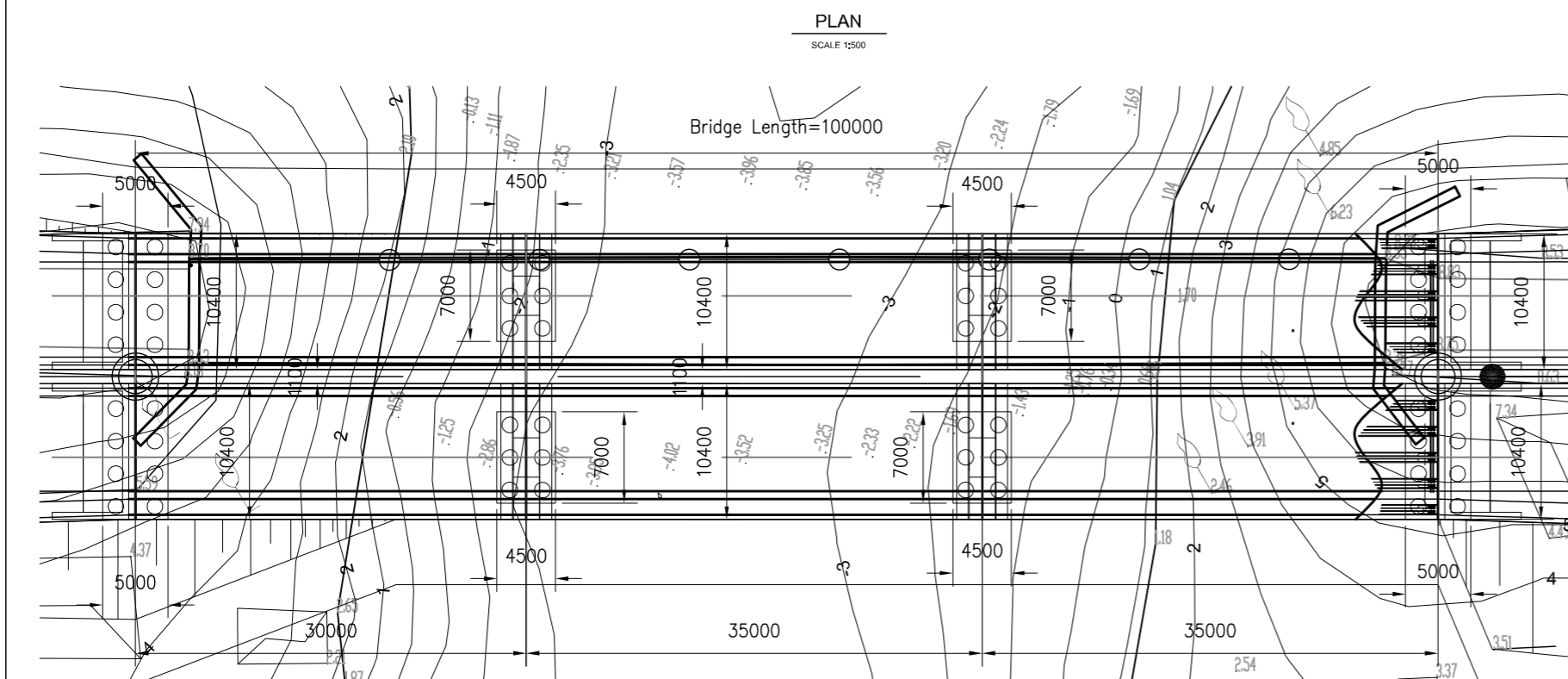
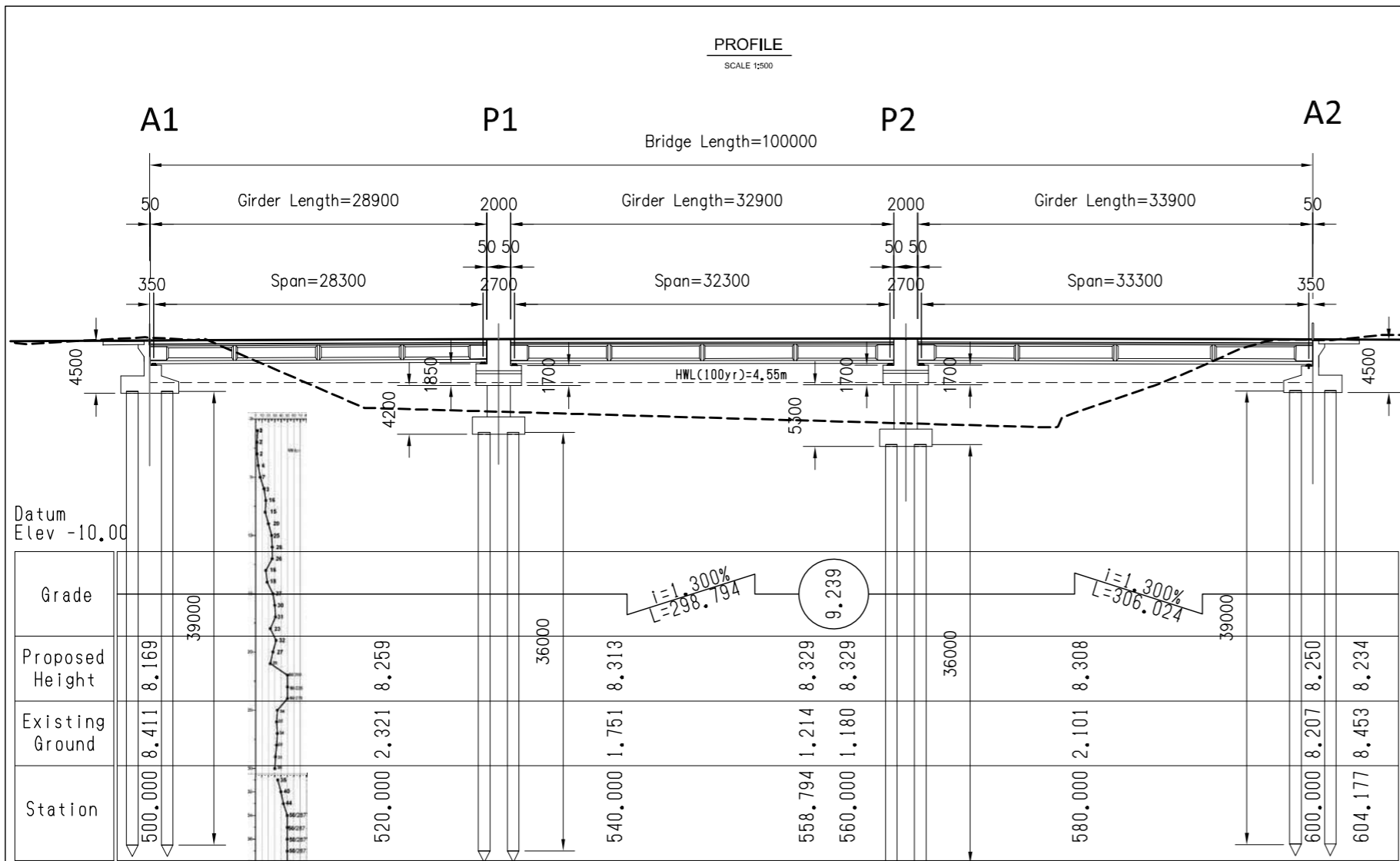


No	REVISION	DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

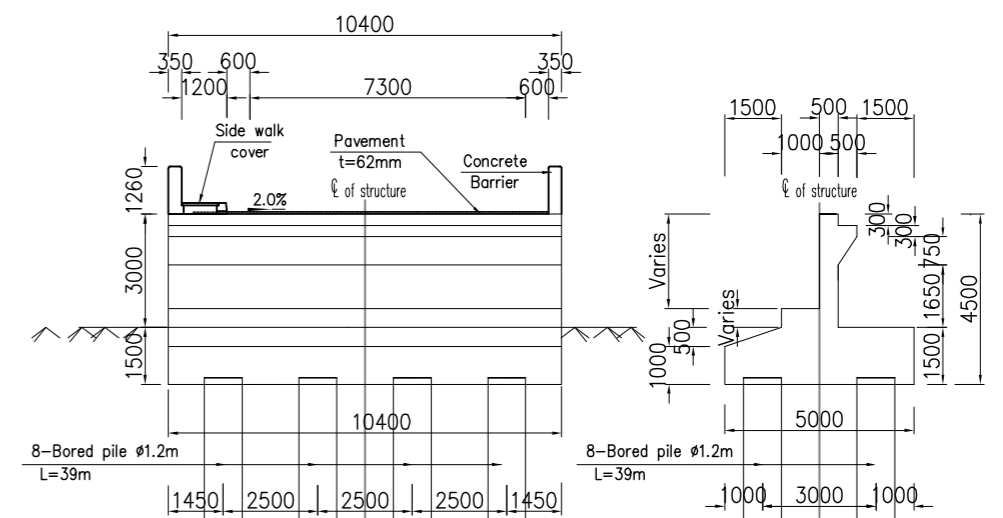
PROFILE  
TULARAMPUR BRIDGE (A2;R-750\_25a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A2/PR-01



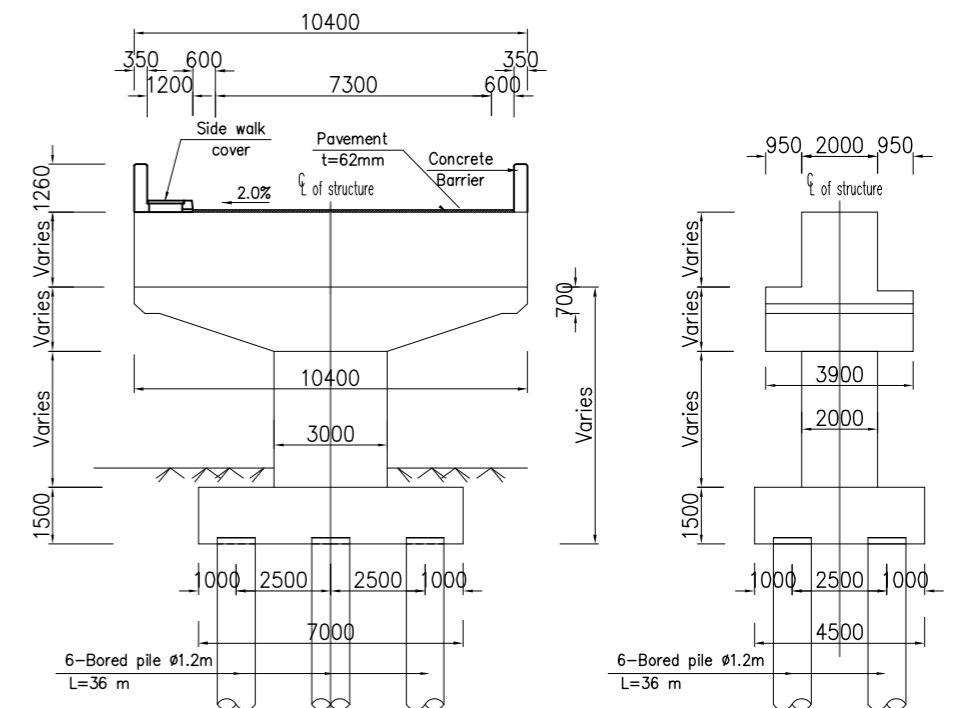
FRONT VIEW OF ABUTMENT

SIDE VIEW OF ABUTMENT



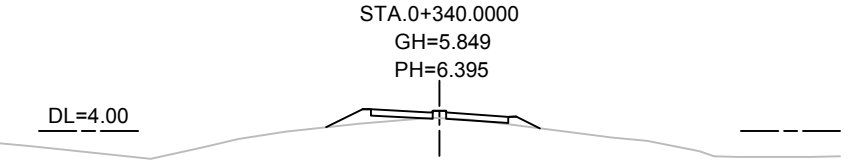
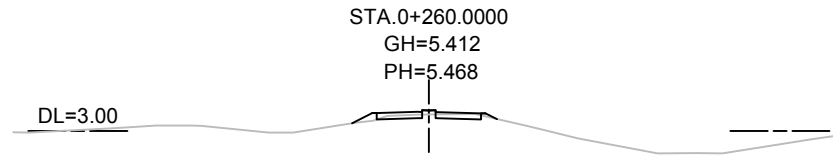
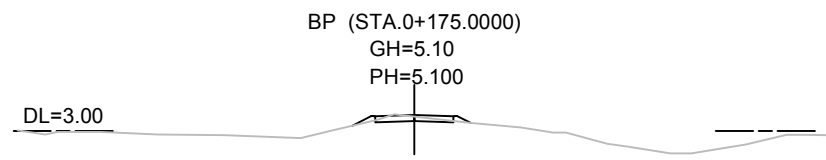
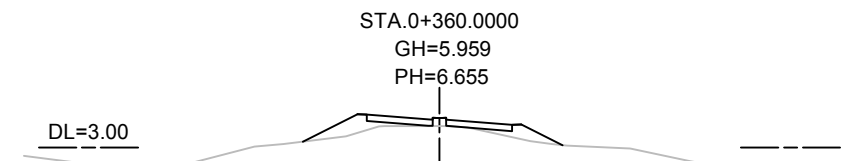
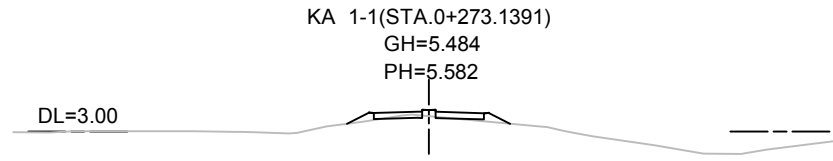
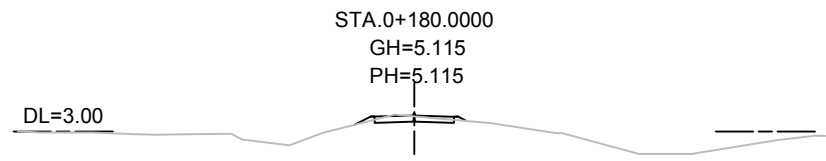
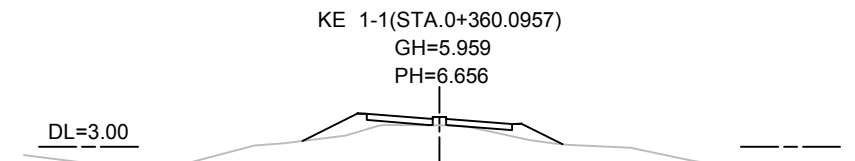
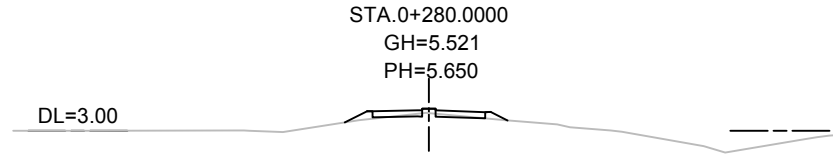
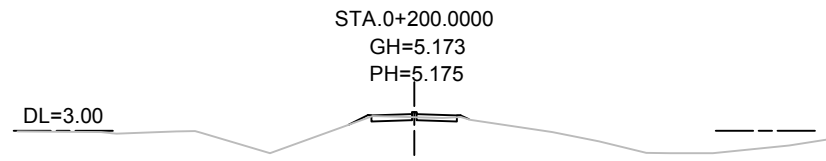
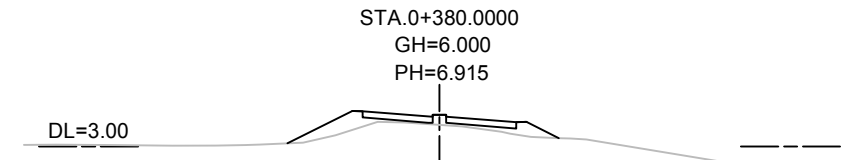
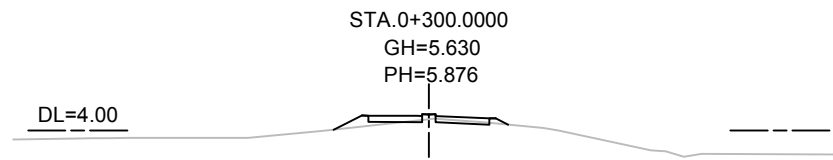
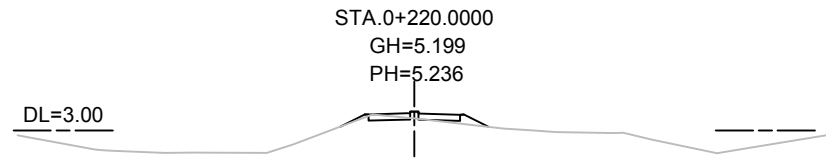
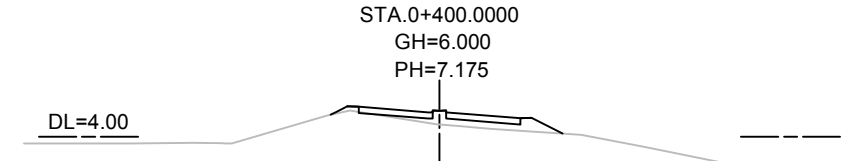
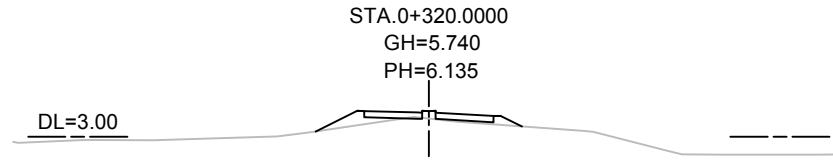
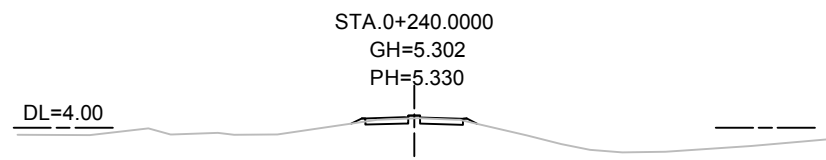
FRONT VIEW OF PIER

SIDE VIEW OF PIER



# CROSS SECTION ( 1 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE
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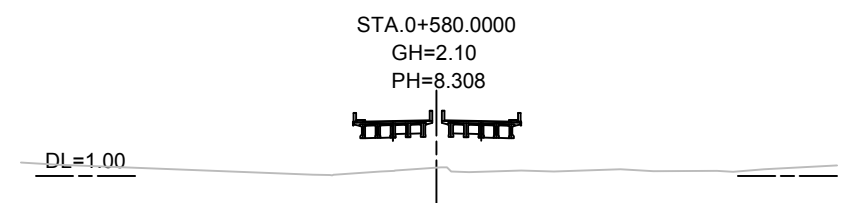
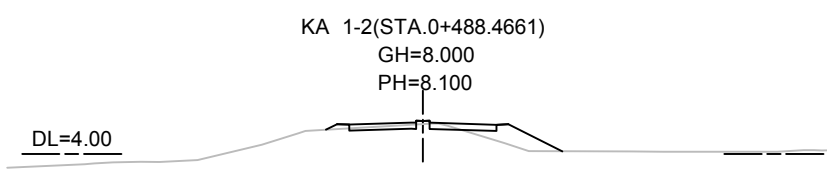
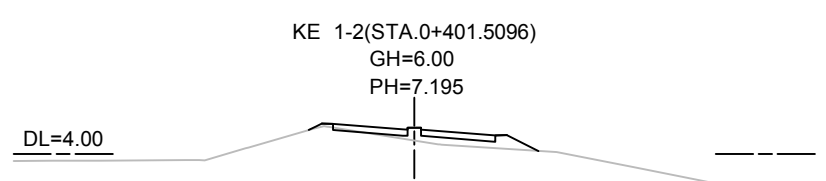
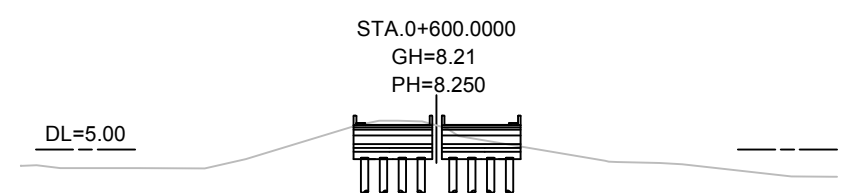
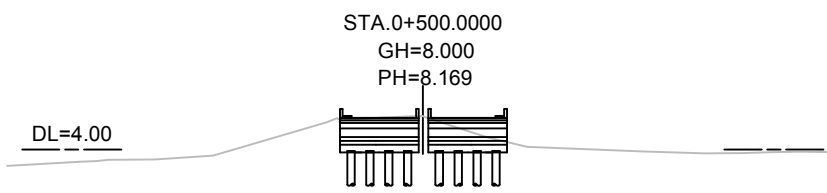
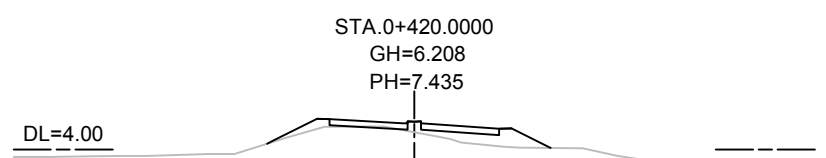
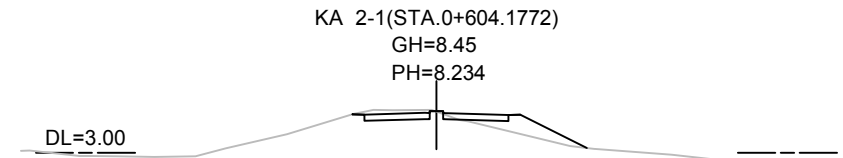
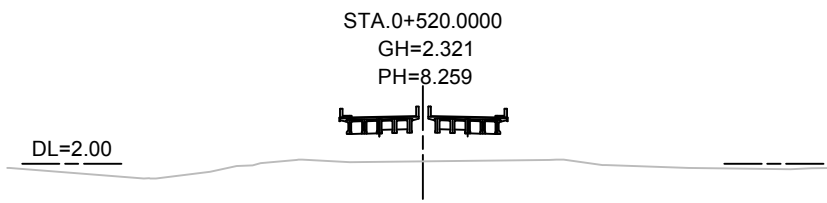
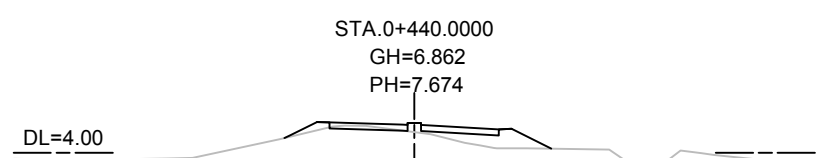
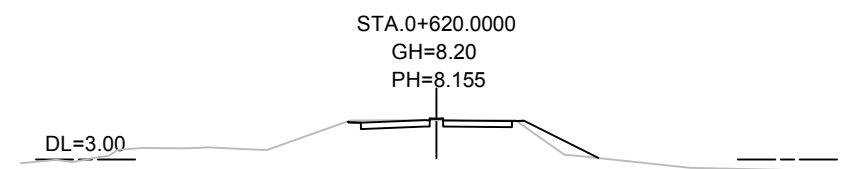
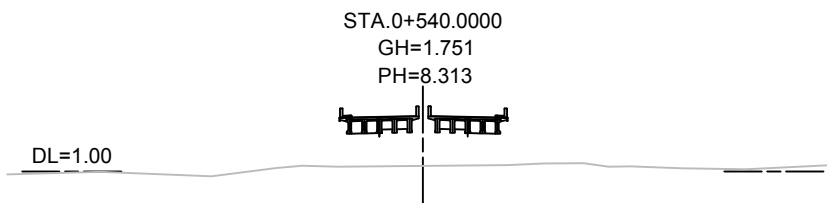
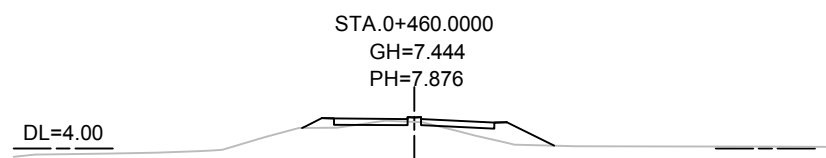
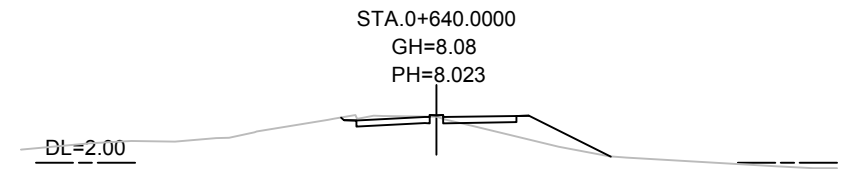
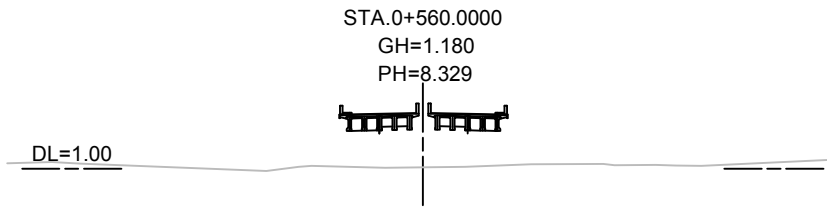
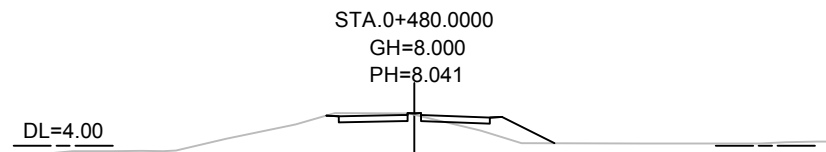
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 1 )  
TULARAMPUR BRIDGE (A2;R-750\_25a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A2/CS-01

# CROSS SECTION ( 2 )

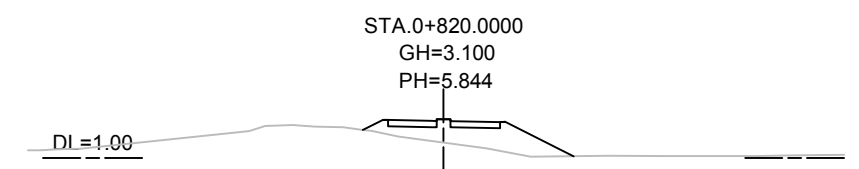
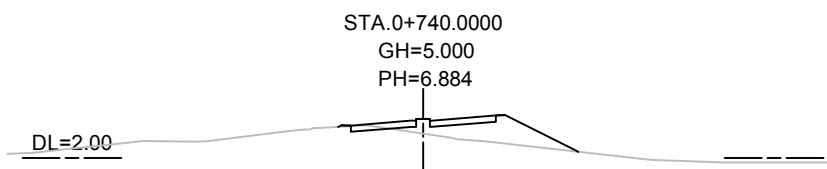
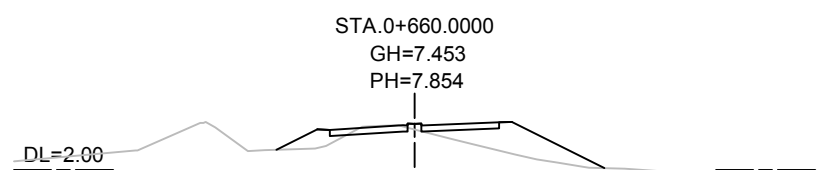
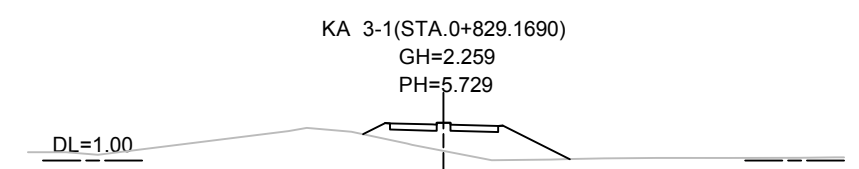
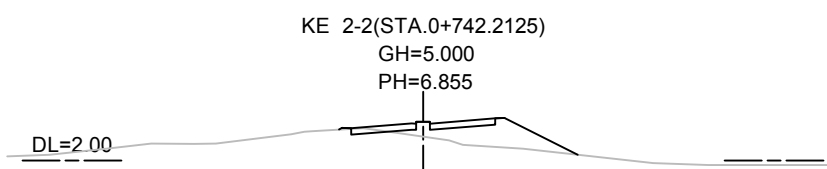
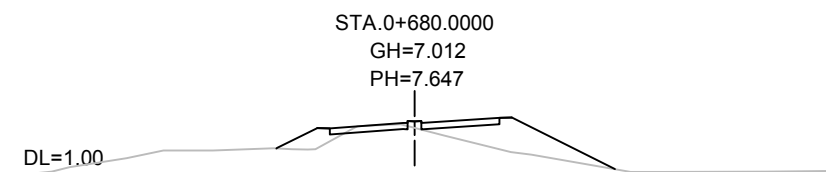
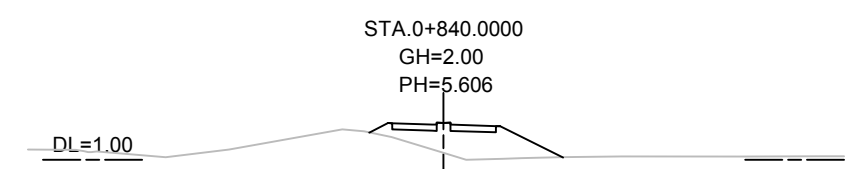
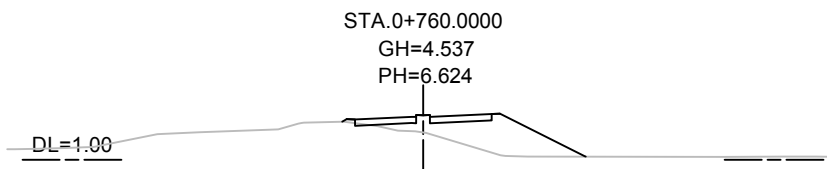
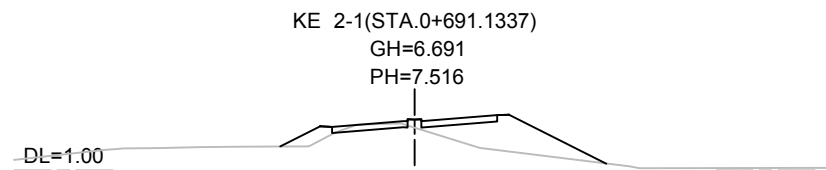
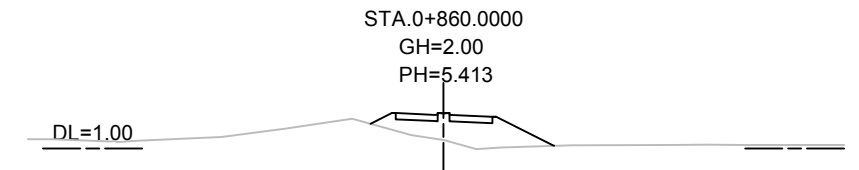
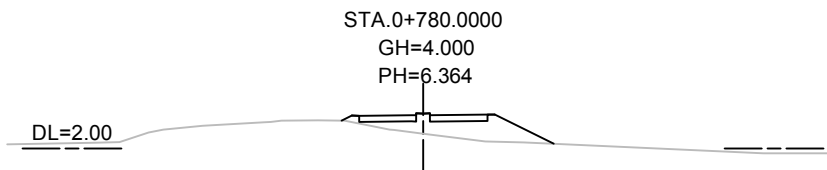
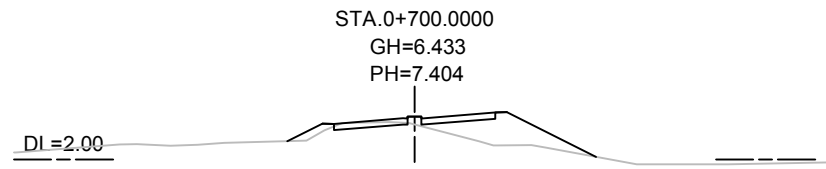
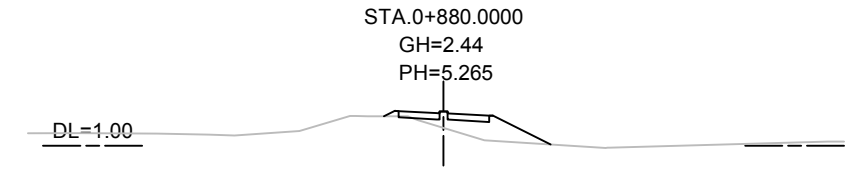
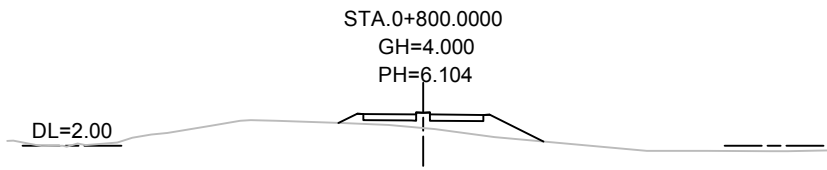
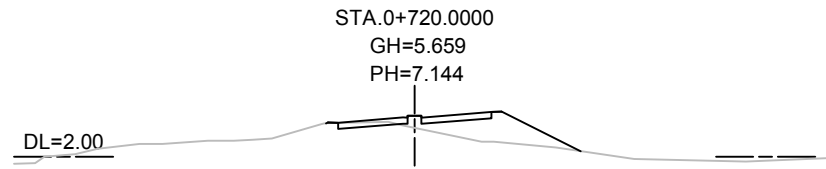
Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY	ORIENTAL CONSULTANTS GLOBAL CO., LTD. PADECO CO.,LTD	No	REVISION	DATE	PREPARATORY SURVEY ON THE CROSS-BORDER ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)	DESIGNED BY:
						Cross Section( 2 ) TULARAMPUR BRIDGE (A2;R-750_25a)	CHECKED BY:
						APPROVED BY:	DWG. NO. A2/CS-02

# CROSS SECTION ( 3 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

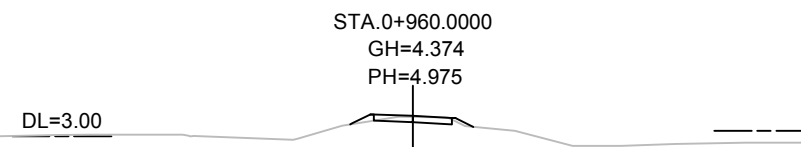
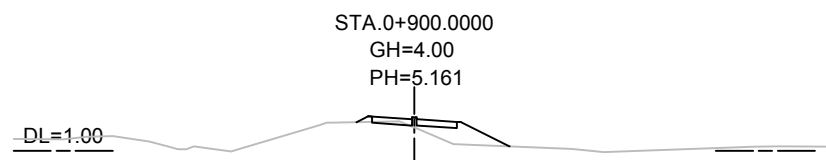
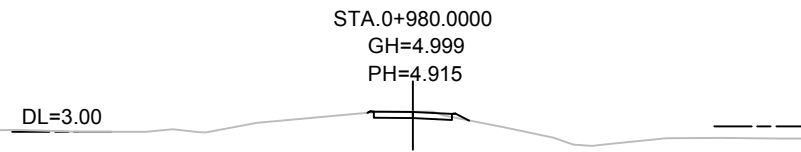
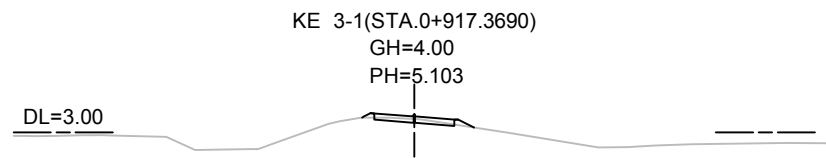
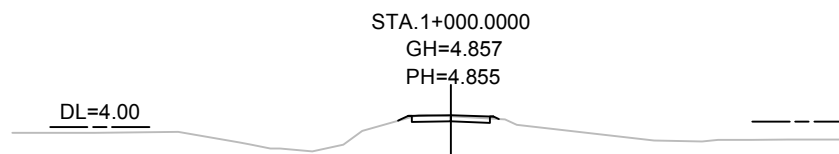
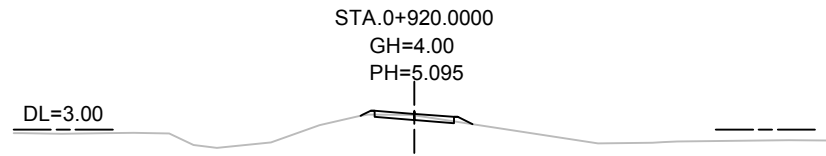
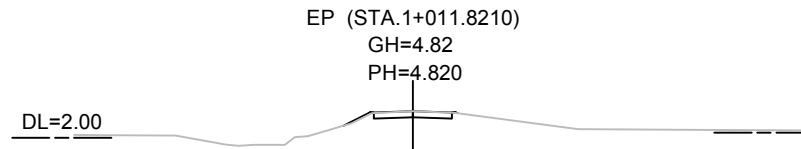
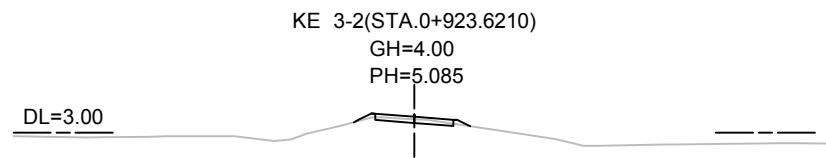
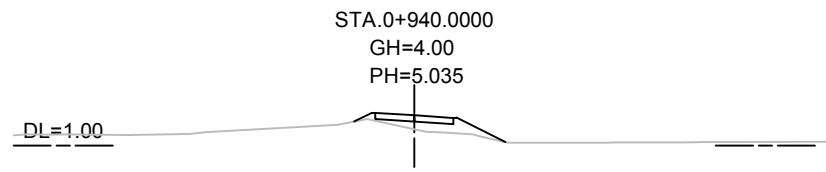
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 3 )  
TULARAMPUR BRIDGE (A2;R-750\_25a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A2/CS-03

# CROSS SECTION ( 4 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

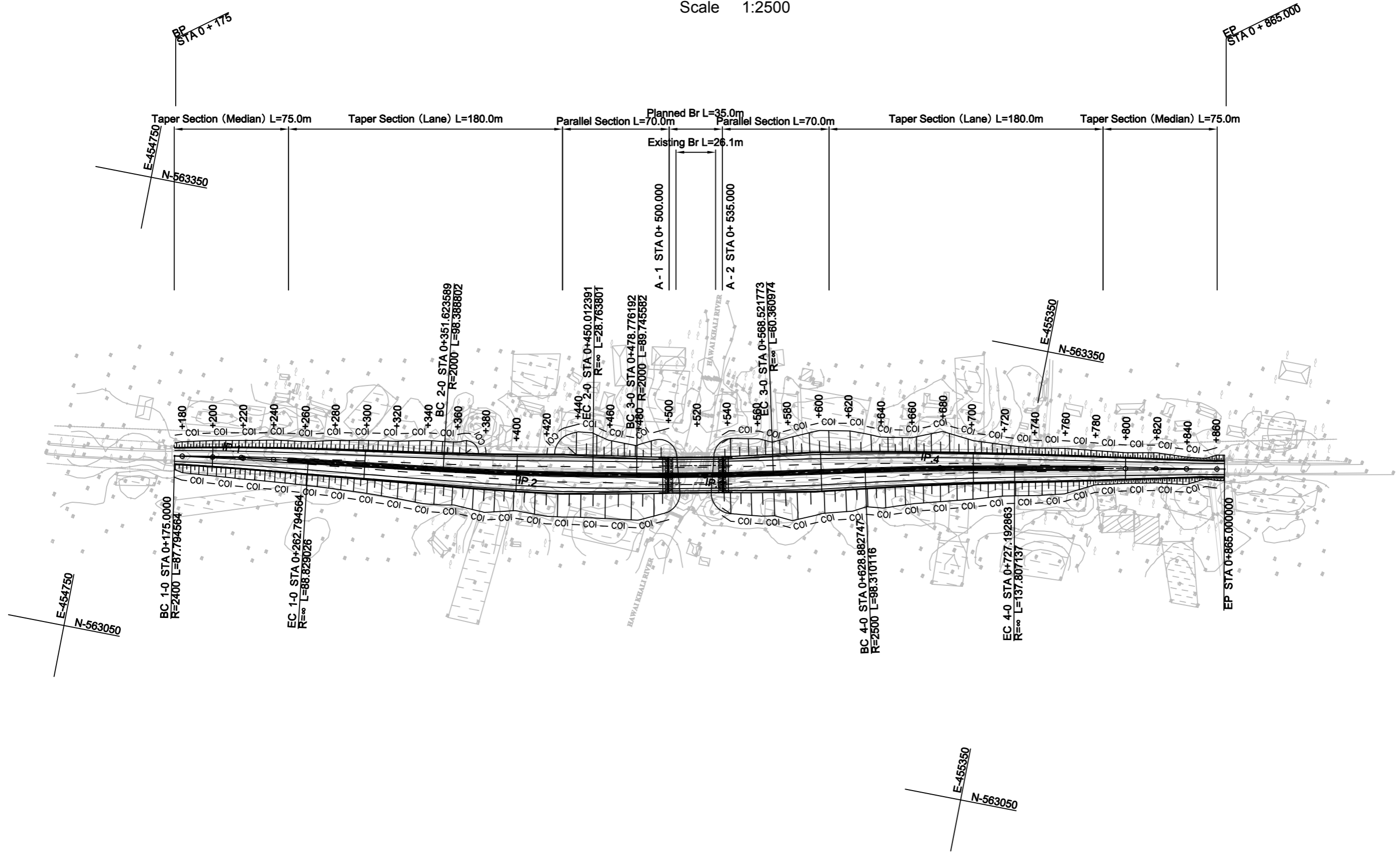
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 4 )  
TULARAMPUR BRIDGE (A2;R-750\_25a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A2/CS-04

# PLAN

Scale 1:2500



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

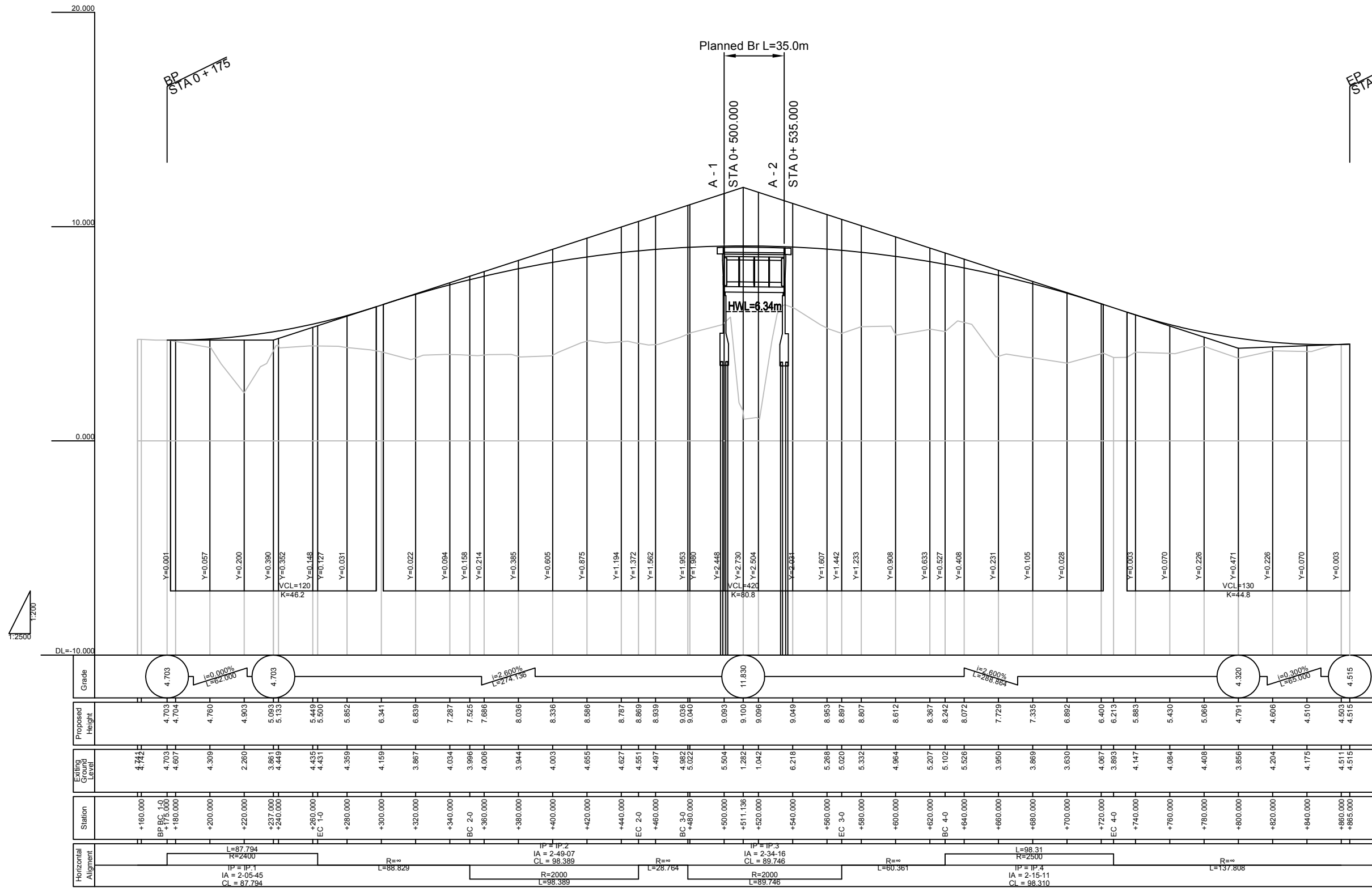
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PLAN  
HAWAI KHALI BRIDGE (A3;Z-7503\_5a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A3/PL-01

# PROFILE

Scale H 1:2500  
V 1:200



Station	Existing Ground Level	Proposed Height	Grade
+160.000	4.742	4.703	4.703
BP STA 0+175	4.703	4.704	4.703
+175.000	4.607	4.760	4.703
+180.000	4.309	4.903	4.703
+200.000	2.260	5.083	4.703
+220.000	3.861	5.133	4.703
+237.000	4.449	5.449	4.703
+240.000	4.431	5.500	4.703
+260.000	4.359	5.852	4.703
EC 1-0	4.159	6.341	4.703
+280.000	3.867	6.839	4.703
+300.000	4.034	7.287	4.703
+320.000	3.986	7.525	4.703
BC 2-0	4.008	7.686	4.703
+360.000	3.944	8.036	4.703
+380.000	4.003	8.336	4.703
+400.000	4.655	8.586	4.703
+420.000	4.627	8.787	4.703
+440.000	4.551	8.869	4.703
EC 2-0	4.497	8.939	4.703
+460.000	4.982	9.036	4.703
BC 3-0	5.022	9.040	4.703
+480.000	5.504	9.093	4.703
+500.000	1.282	9.100	11.830
+511.136	1.042	9.096	11.830
+520.000	6.218	9.049	11.830
+540.000	5.268	8.953	11.830
+560.000	5.020	8.897	11.830
EC 3-0	5.332	8.807	11.830
+580.000	4.964	8.612	11.830
+600.000	5.207	8.367	11.830
+620.000	5.102	8.242	11.830
BC 4-0	5.526	8.072	11.830
+640.000	3.950	7.729	11.830
+660.000	3.869	7.335	11.830
+680.000	3.630	6.892	11.830
+700.000	4.067	6.400	11.830
+720.000	3.893	6.213	11.830
EC 4-0	4.147	5.883	11.830
+740.000	4.084	5.430	11.830
+760.000	4.408	5.066	11.830
+780.000	3.866	4.791	11.830
+800.000	4.204	4.606	11.830
+820.000	4.175	4.510	11.830
+840.000	4.511	4.503	11.830
+860.000	4.515	4.515	11.830
+865.000	4.515	4.515	11.830



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO., LTD



No REVISION DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

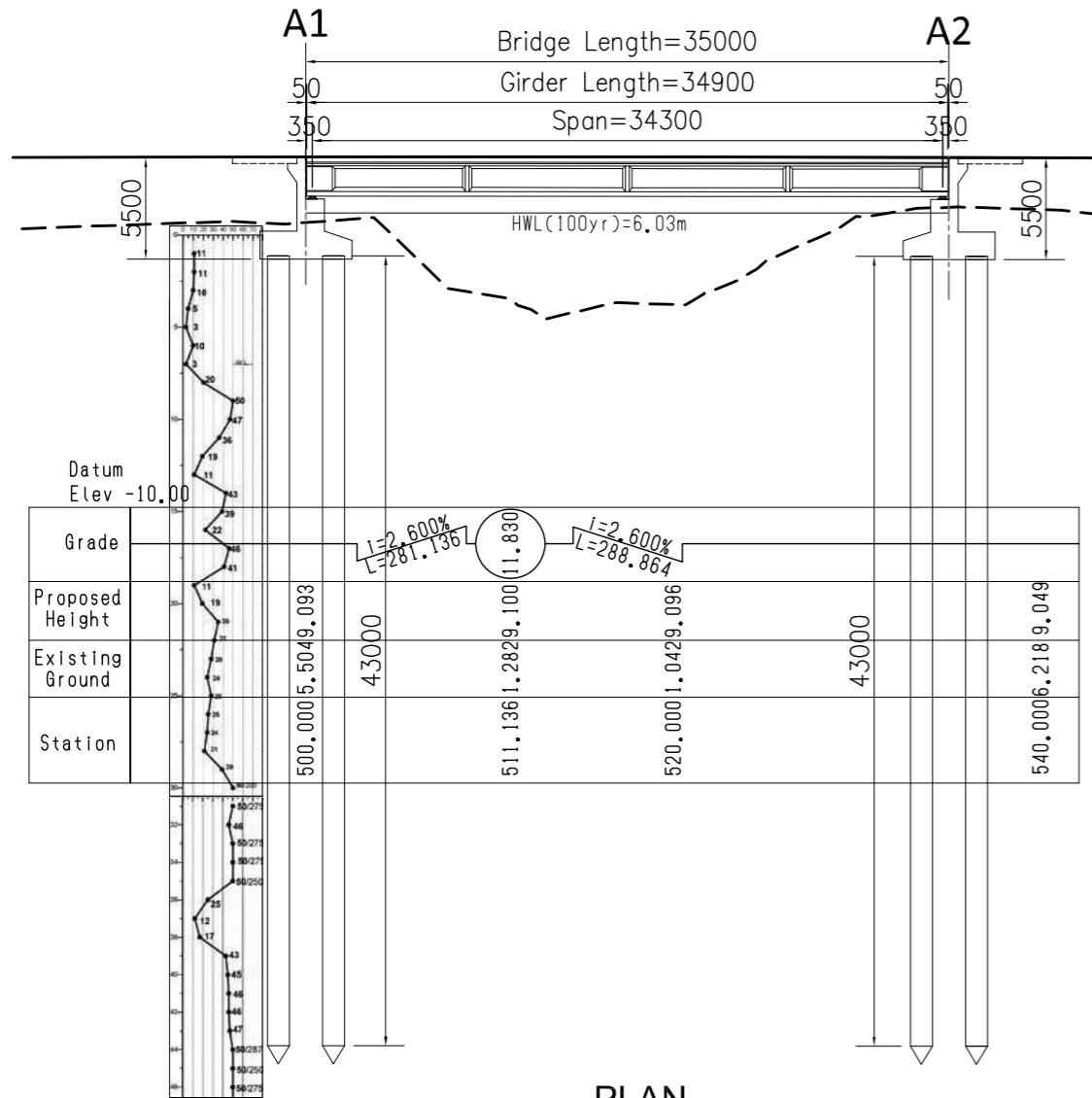
PROFILE  
HAWAI KHALI BRIDGE (A3/Z-7503\_5a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A3/PR-01



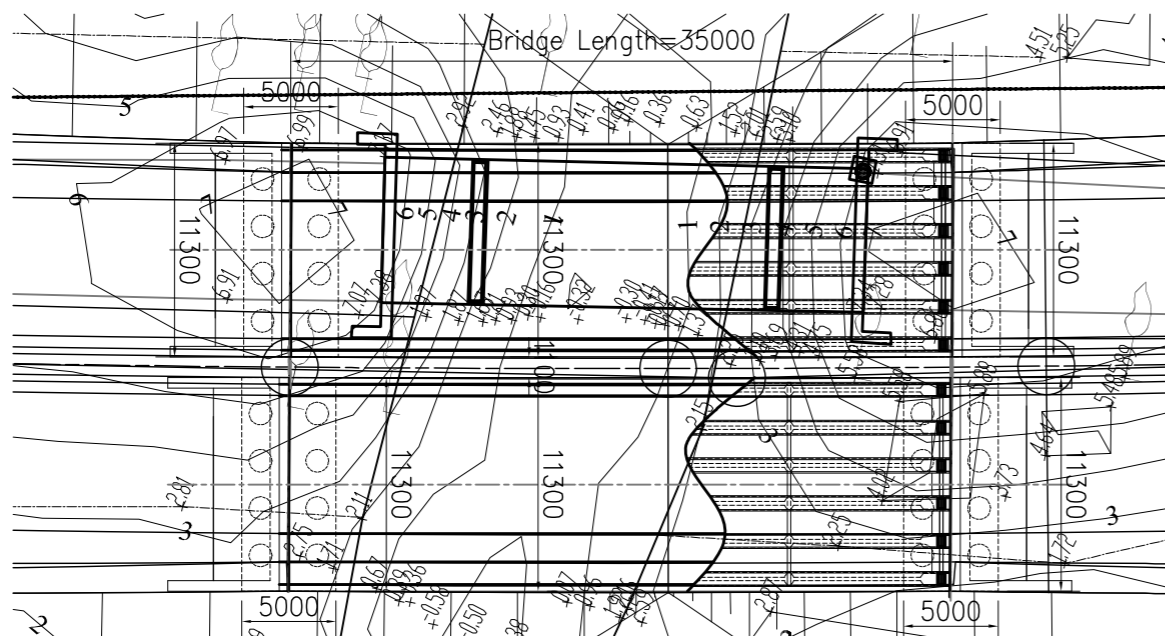
**PROFILE**

SCALE 1:400



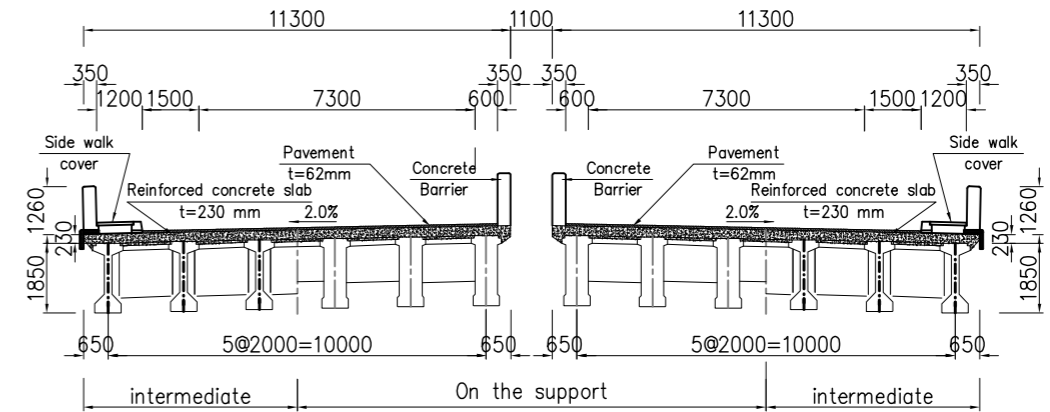
**PLAN**

SCALE 1:400



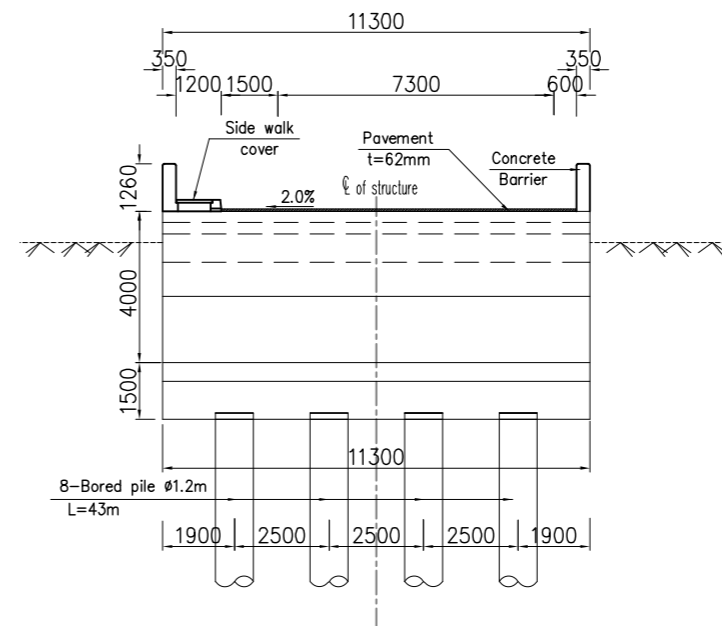
**CROSS SECTION**

SCALE 1:200



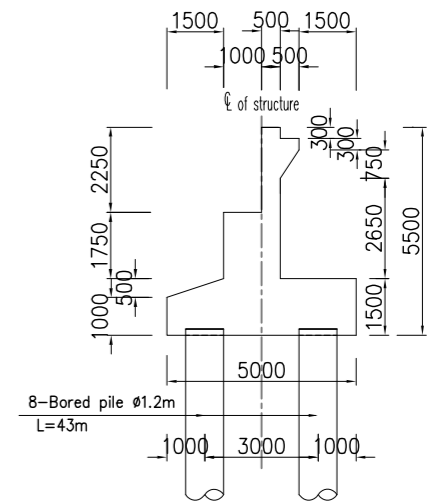
**FRONT VIEW OF ABUTMENT**

SCALE 1:200



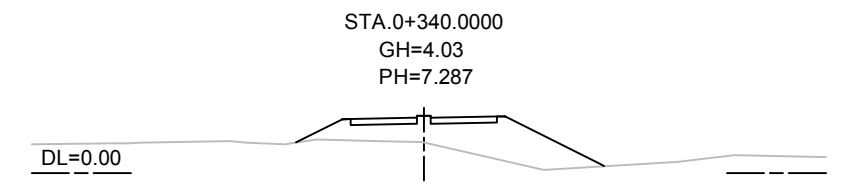
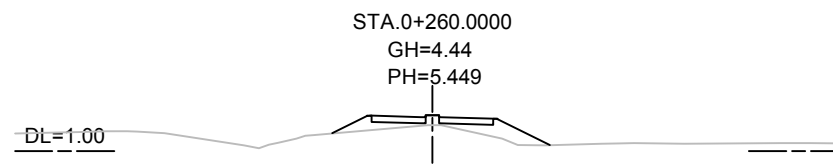
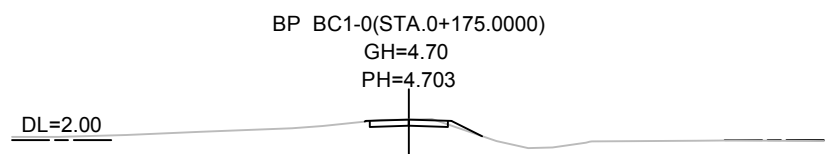
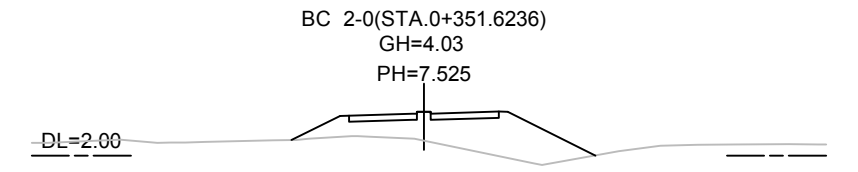
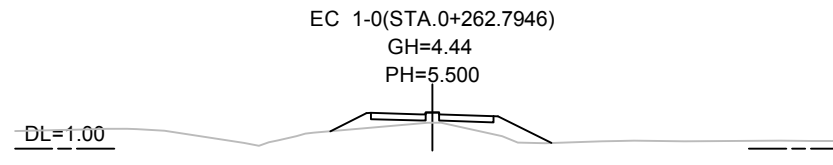
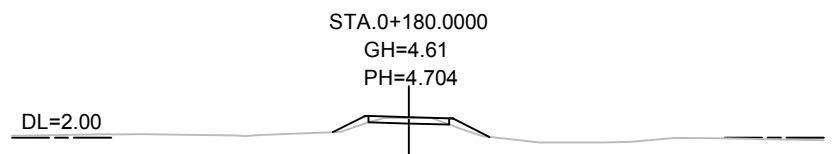
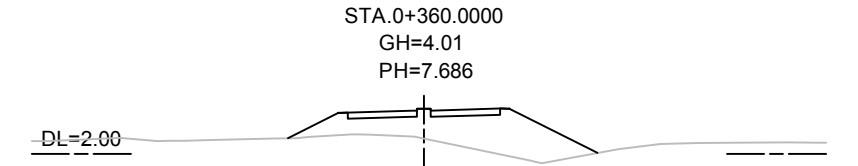
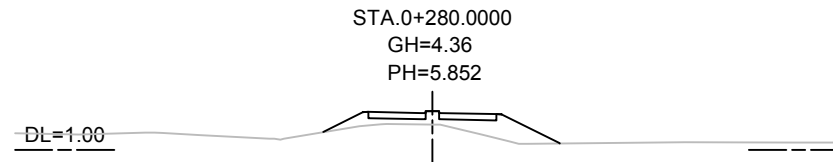
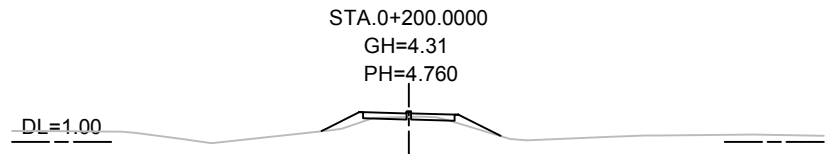
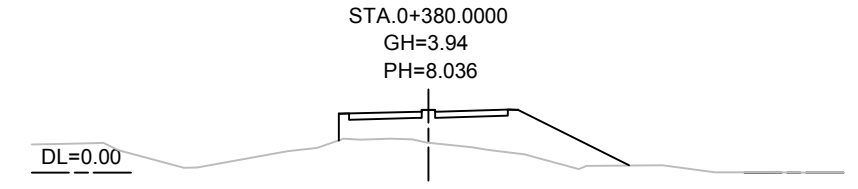
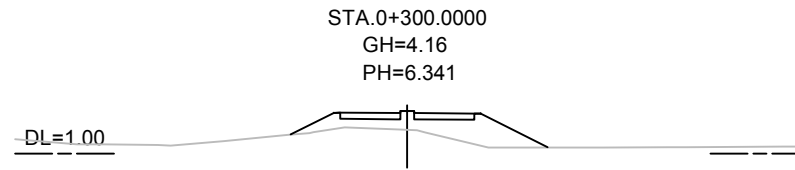
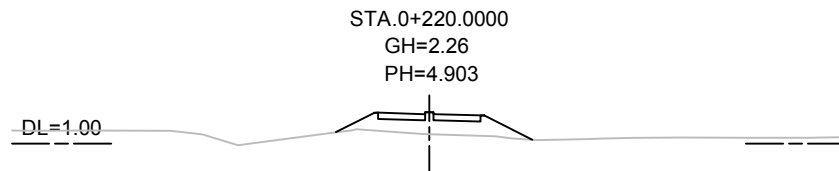
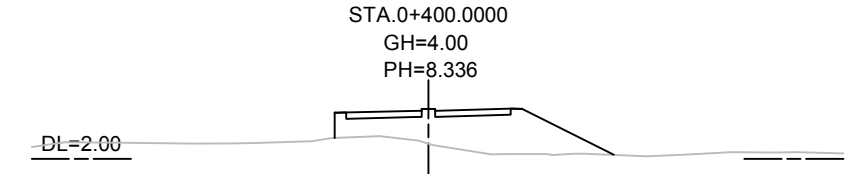
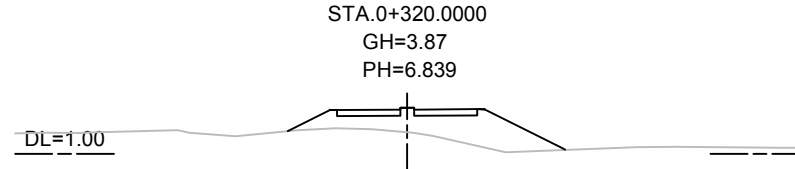
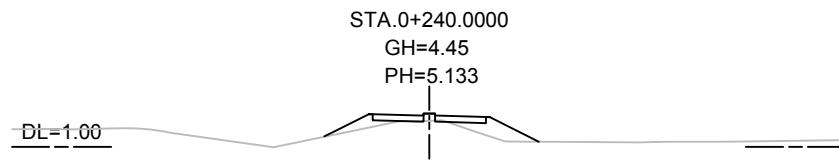
**SIDE VIEW OF ABUTMENT**

SCALE 1:200



# CROSS SECTION ( 1 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

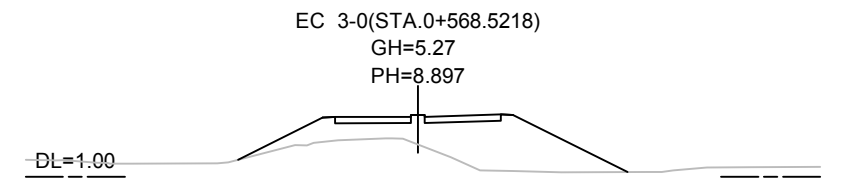
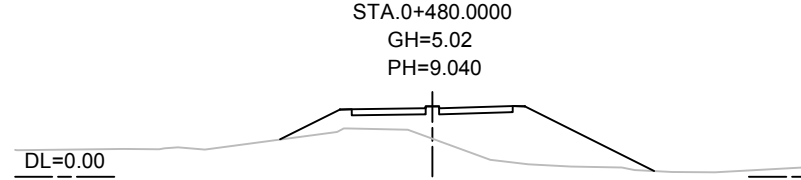
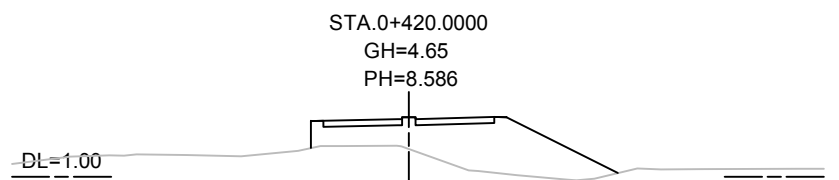
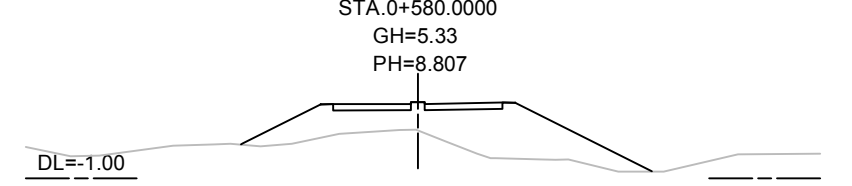
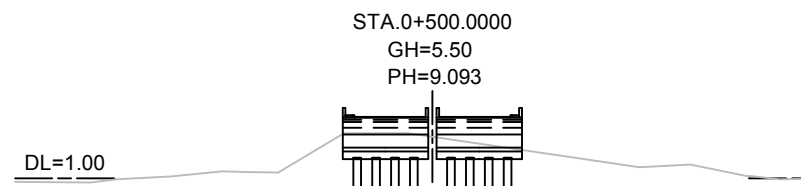
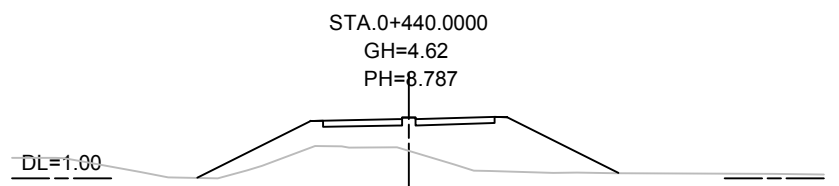
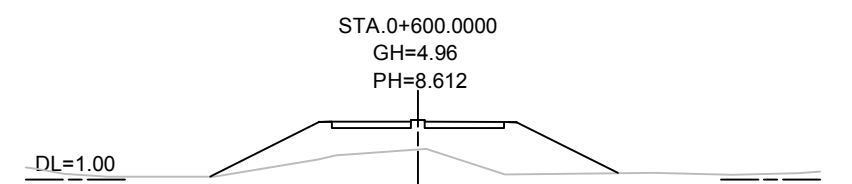
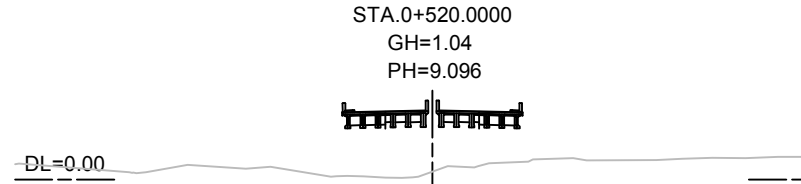
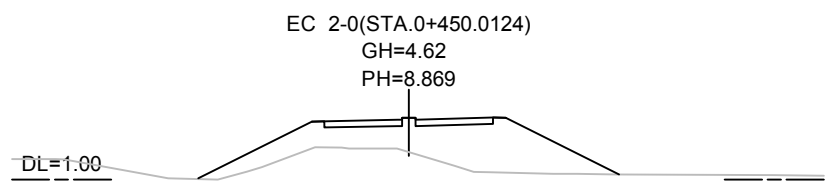
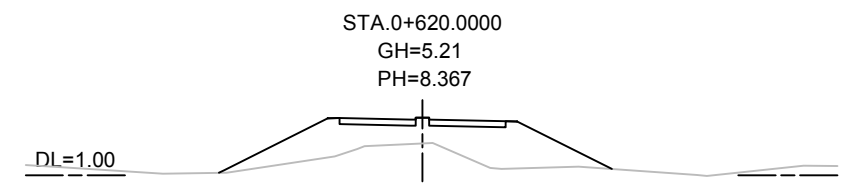
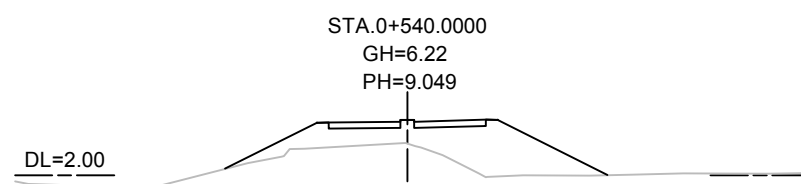
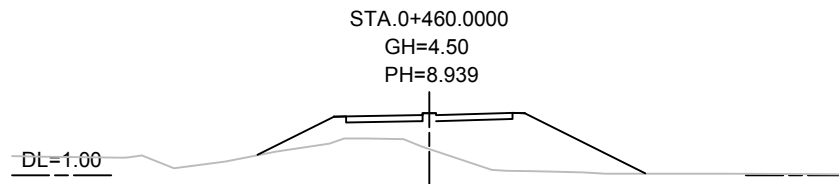
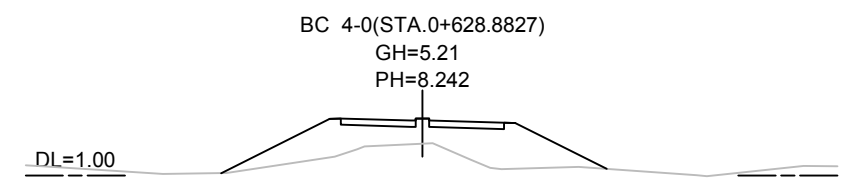
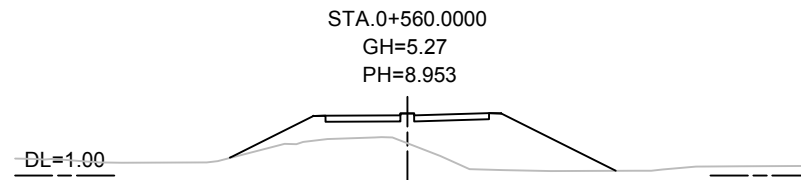
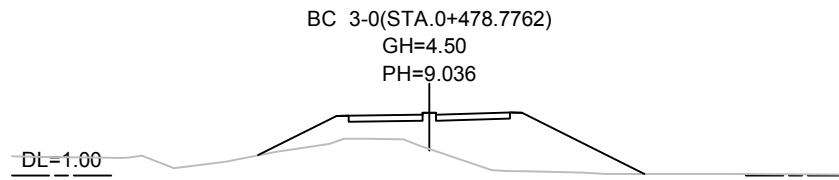
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 1 )  
HAWAI KHALI BRIDGE (A3;Z-7503\_5a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A3/CS-01

# CROSS SECTION ( 2 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

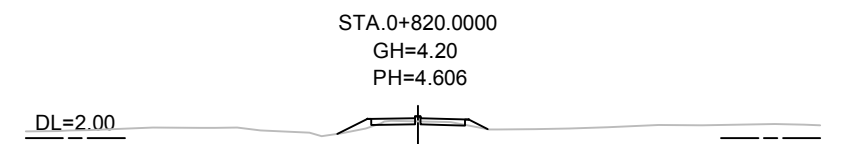
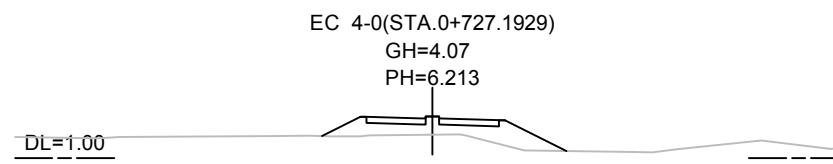
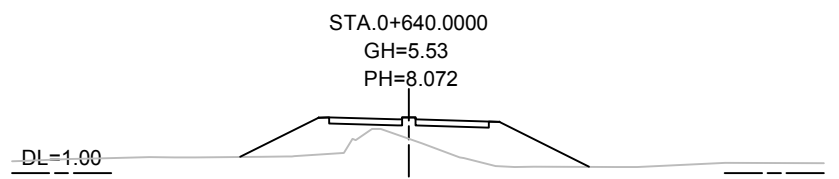
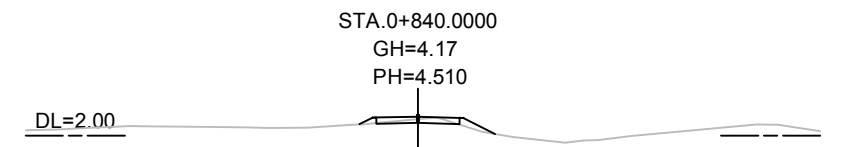
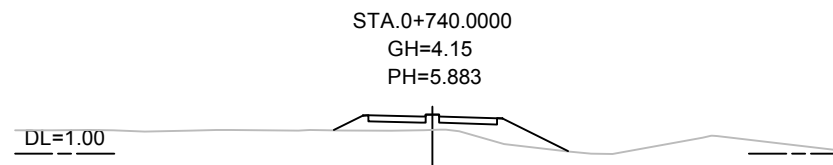
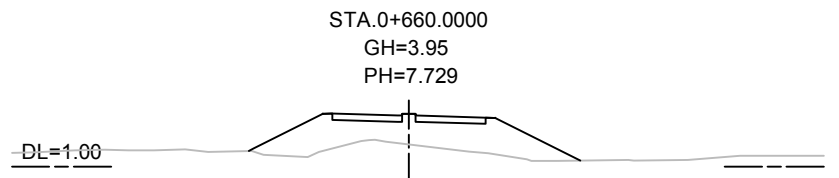
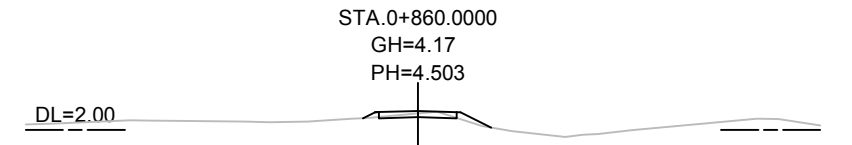
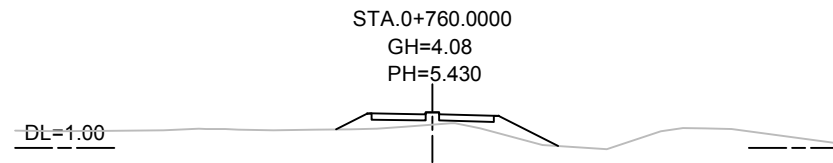
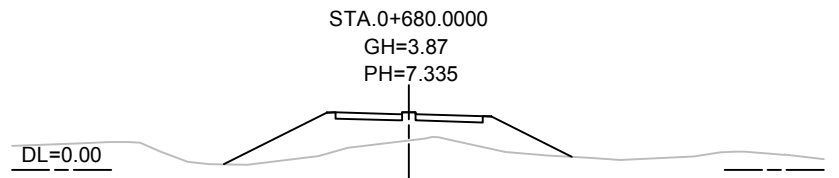
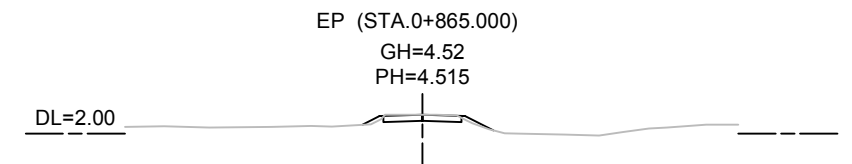
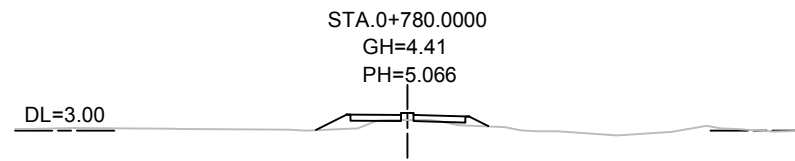
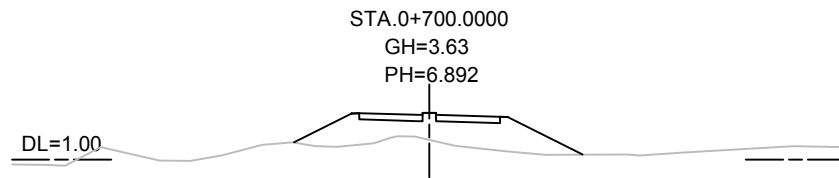
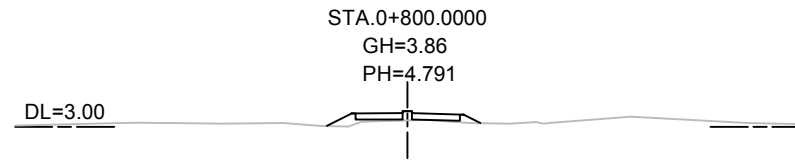
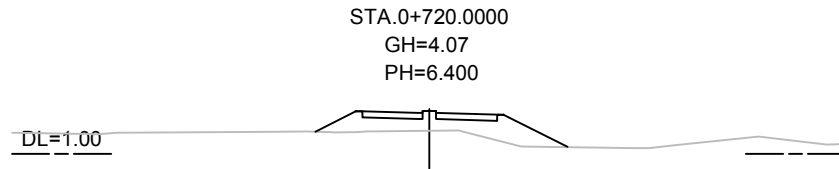
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 2 )  
HAWAI KHALI BRIDGE (A3;Z-7503\_5a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A3/CS-02

# CROSS SECTION ( 3 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

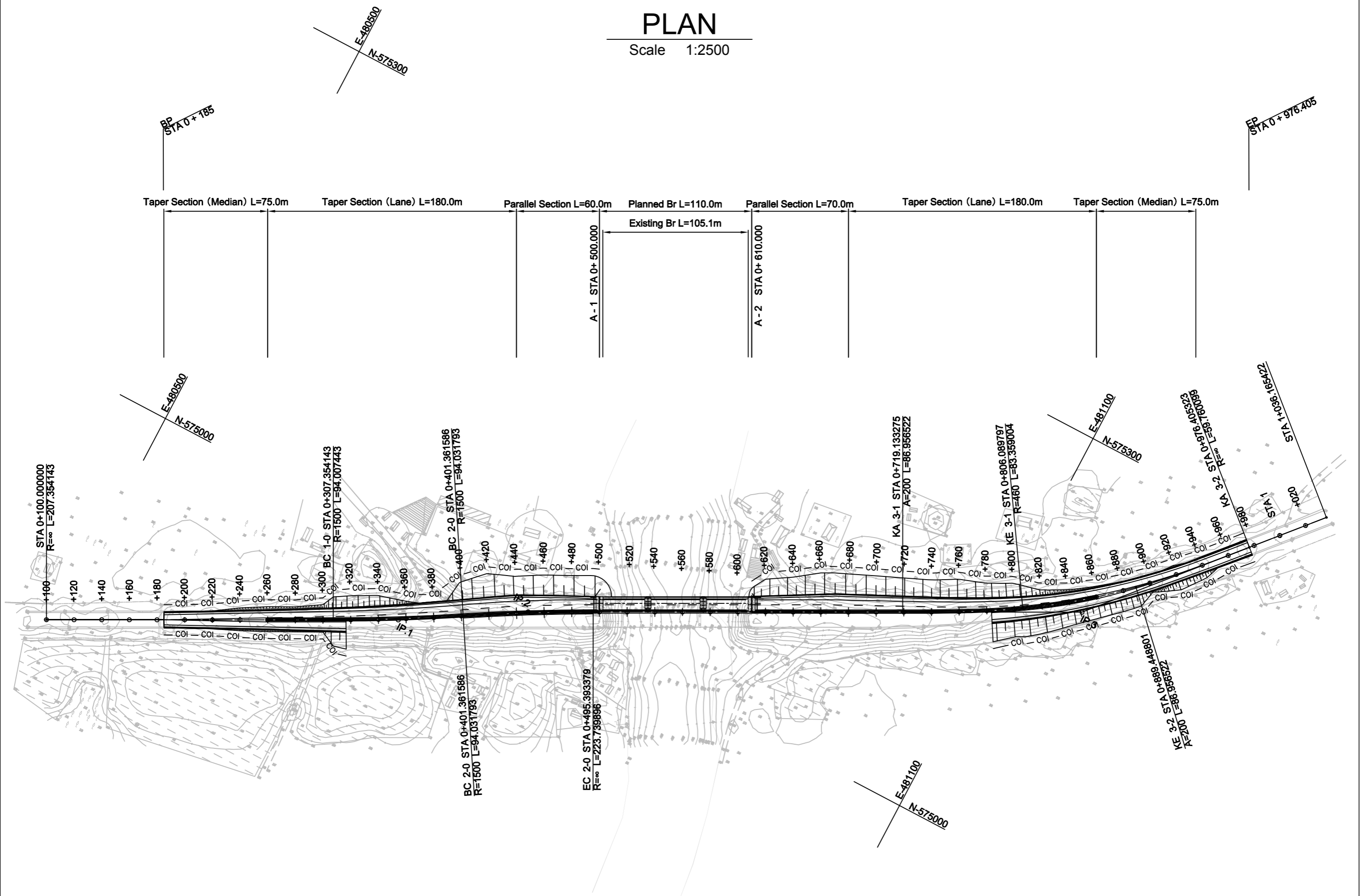
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)


Cross Section( 3 )  
HAWAI KHALI BRIDGE (A3;Z-7503\_5a)




DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A3/CS-03

# PLAN

Scale 1:2500




**MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)**  
 PEOPLE'S REPUBLIC OF BANGLADESH  
 ROADS & HIGHWAYS DEPARTMENT(RHD)


**JAPAN INTERNATIONAL COOPERATION AGENCY**  

**ORIENTAL CONSULTANTS GLOBAL CO., LTD.**  

**PADECO CO.,LTD.**

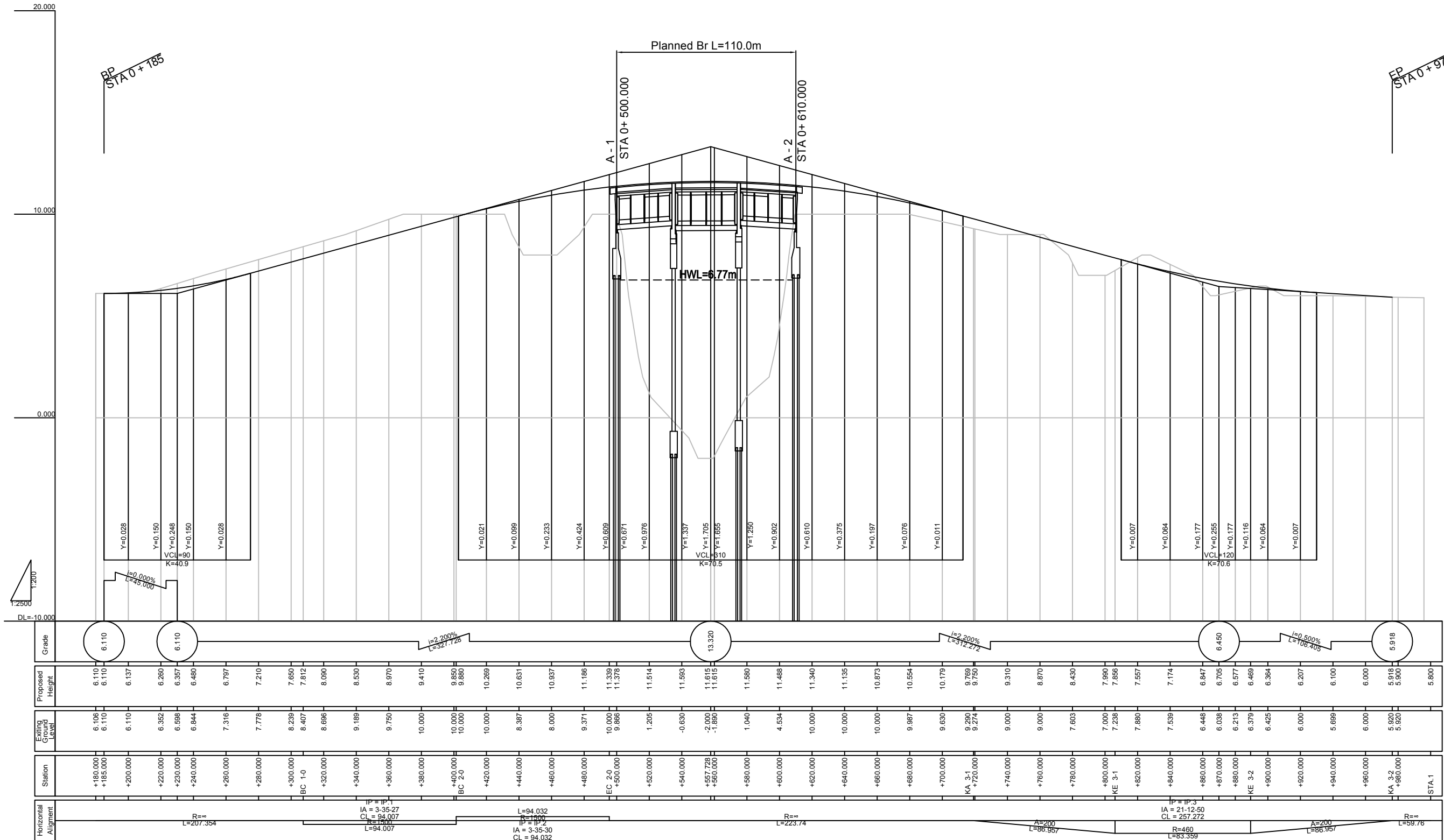
No	REVISION	DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
 ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)  
 PLAN  
 GARAKOLA BRIDGE (A5;N-805\_24a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A5/PL-01

# PROFILE

Scale H 1:2500  
V 1:200



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT (RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO., LTD



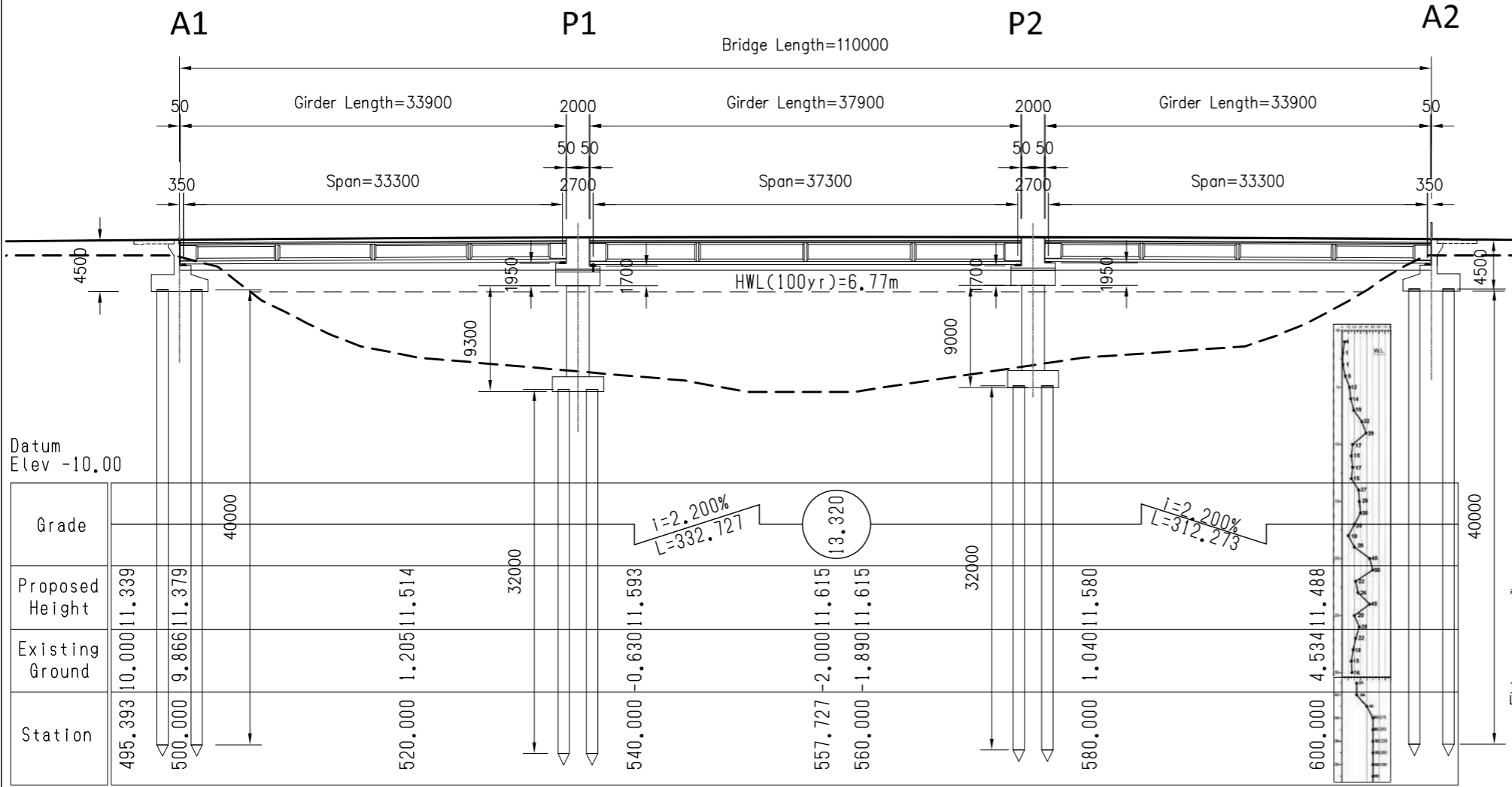
No REVISION DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

PROFILE  
GARAKOLA BRIDGE (A5;N-805\_24a)

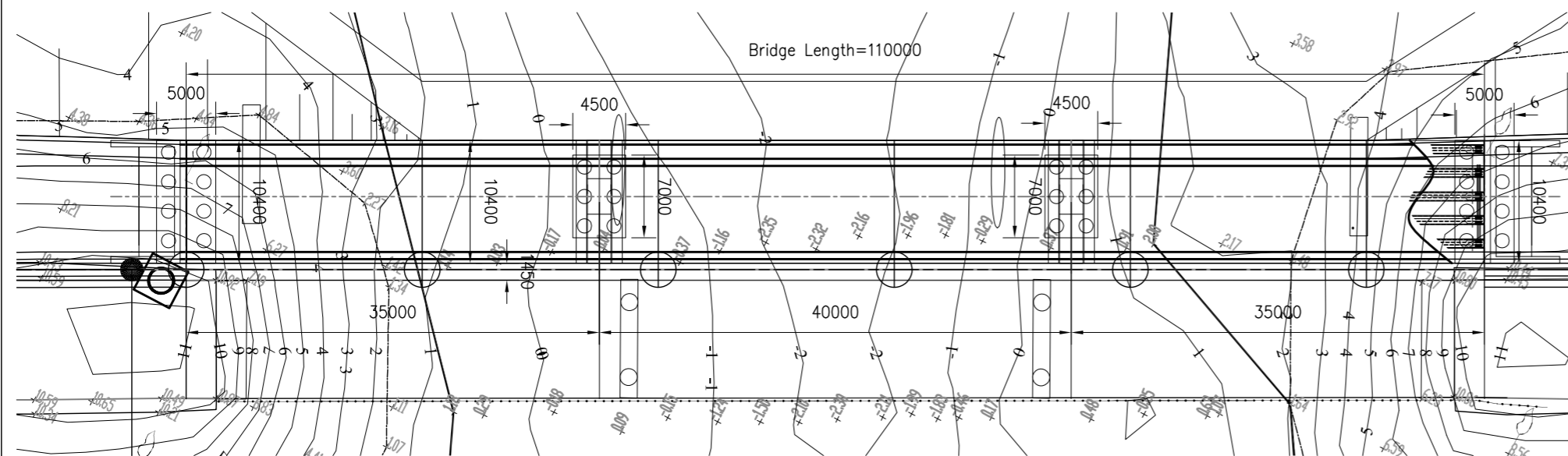
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A5/PR-01

**PROFILE**  
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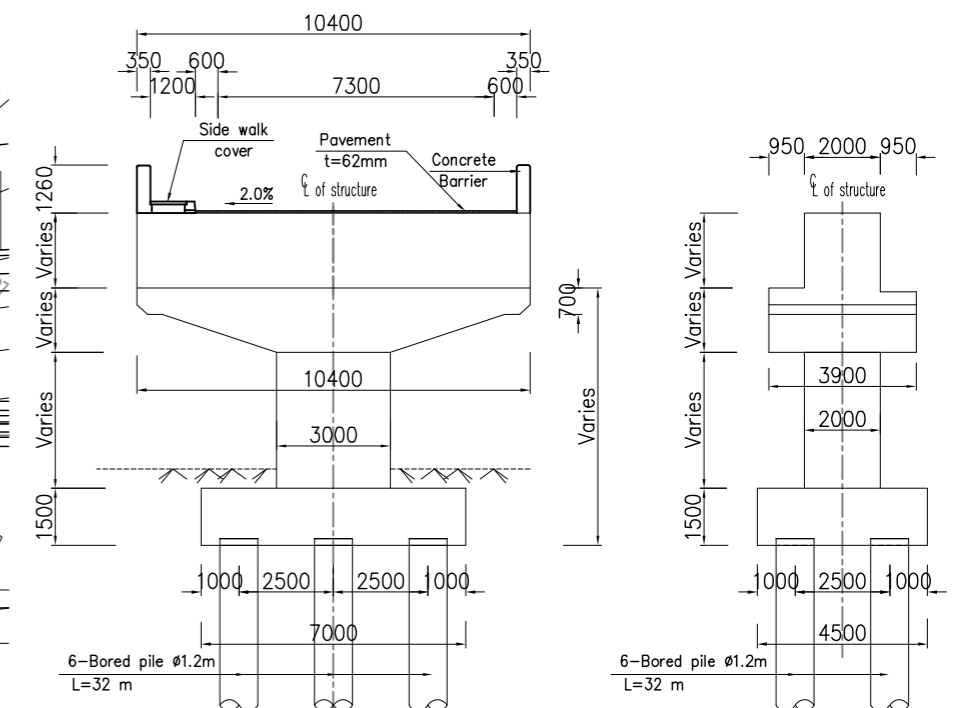
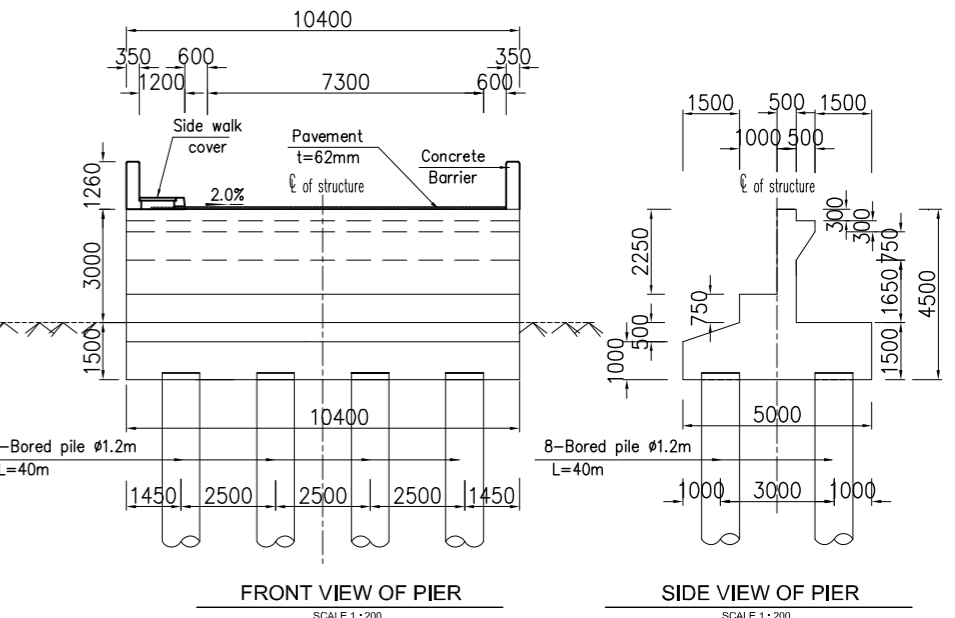
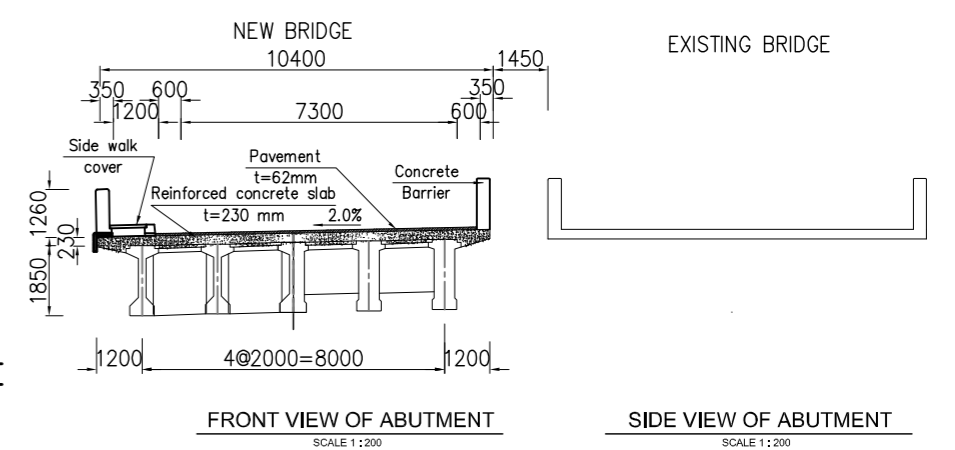


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**PLAN**  
SCALE 1:500

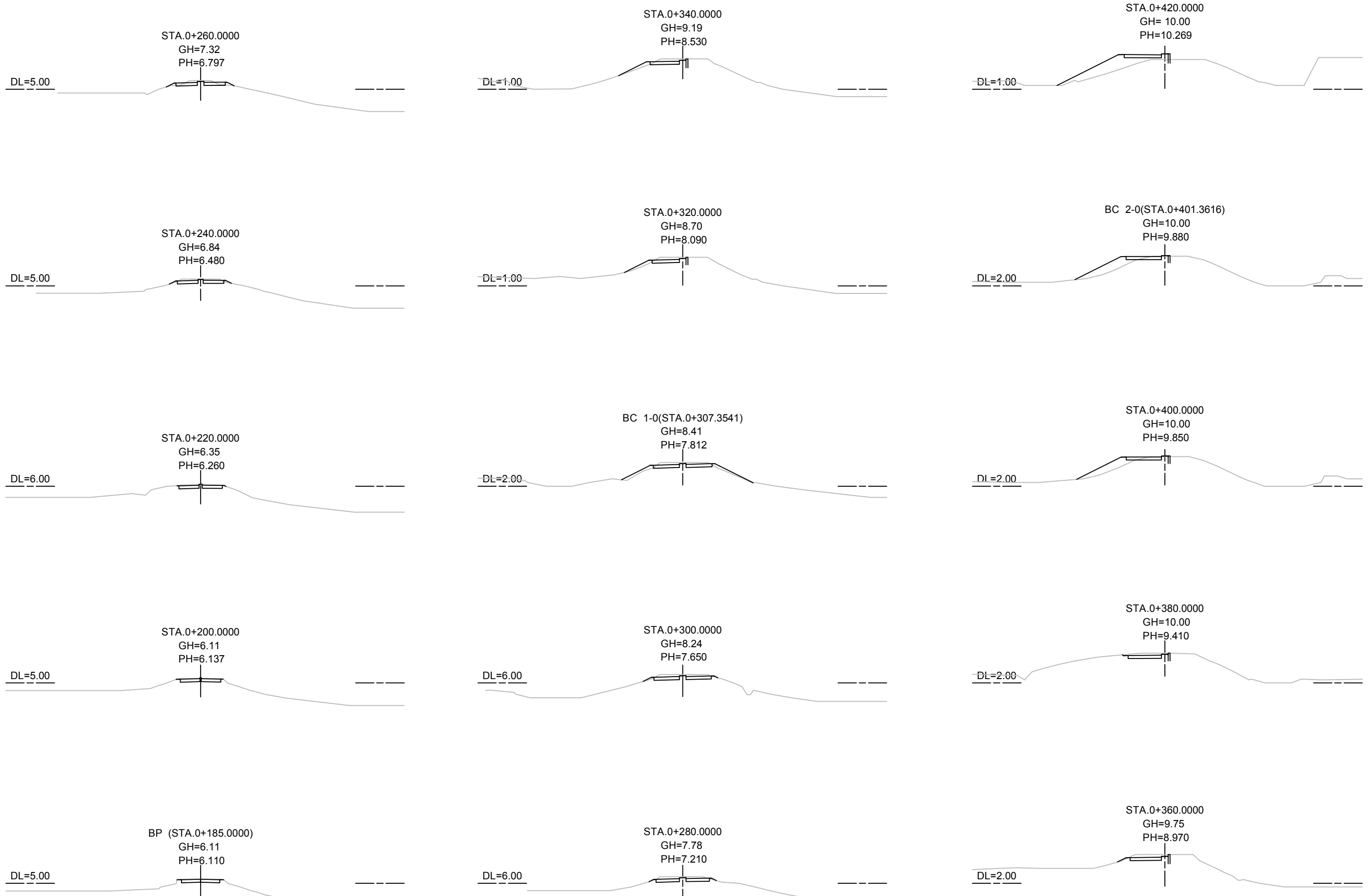


**CROSS SECTION**  
SCALE 1:200



# CROSS SECTION ( 1 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

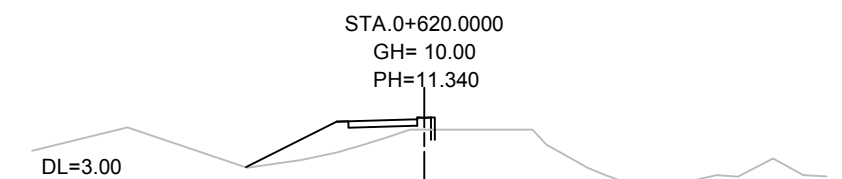
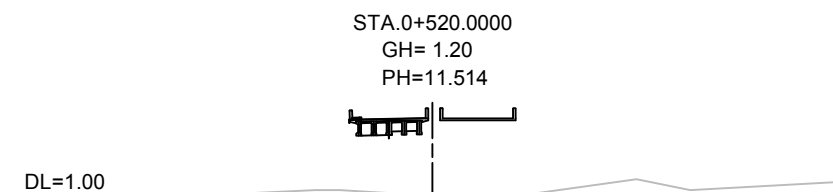
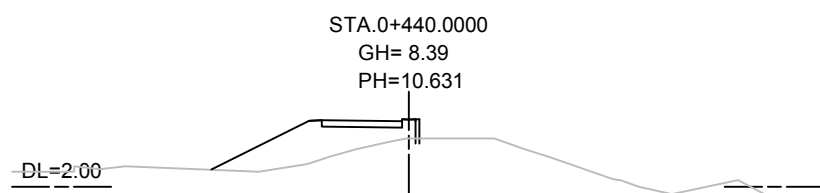
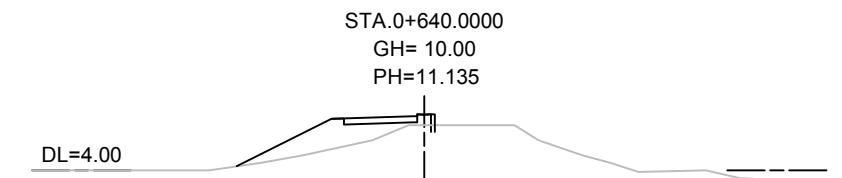
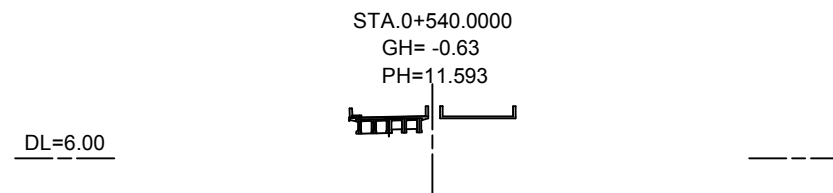
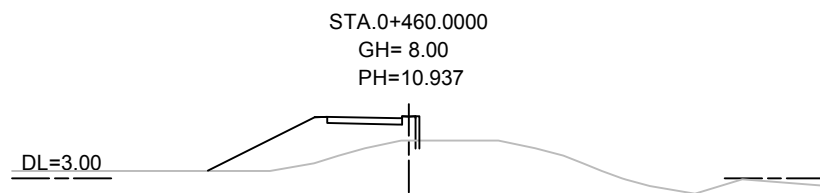
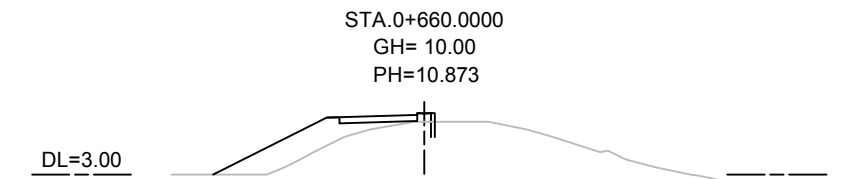
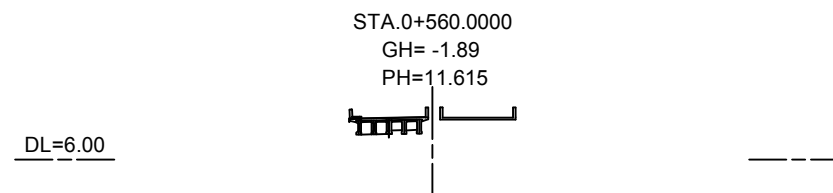
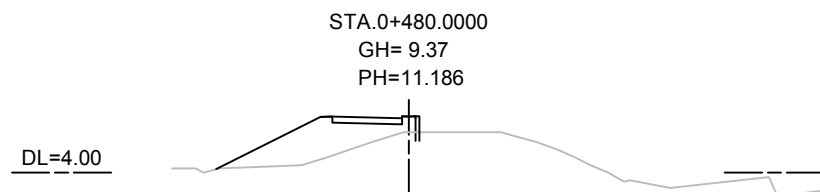
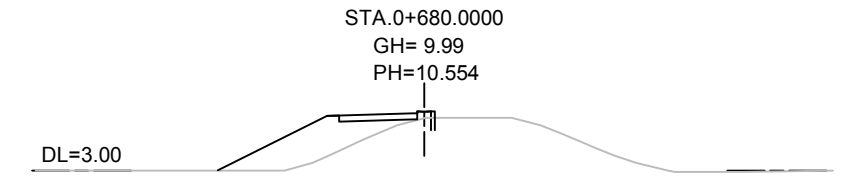
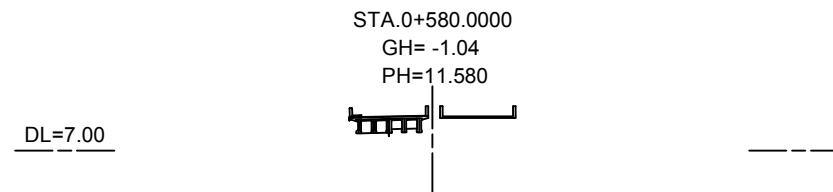
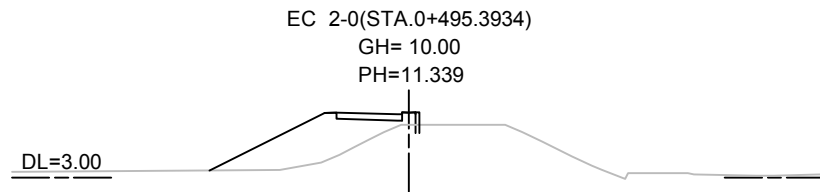
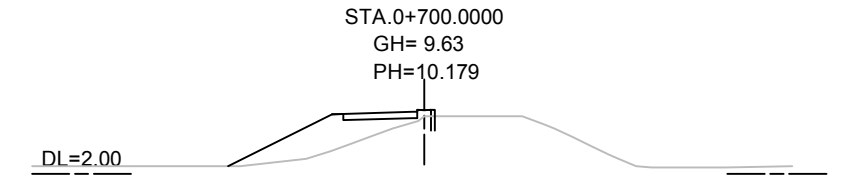
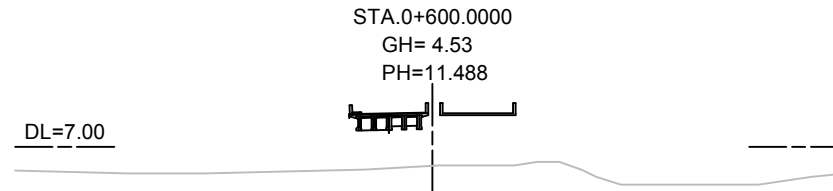
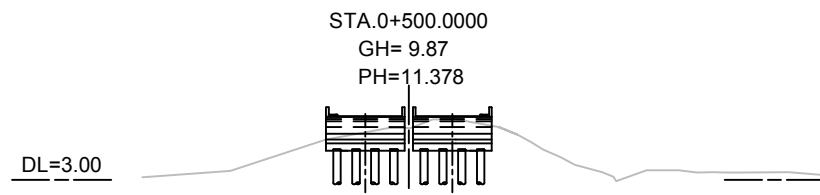
Cross Section( 1 )  
GARAKOLA BRIDGE (A5;N-805\_24a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A5/CS-01



# CROSS SECTION ( 2 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

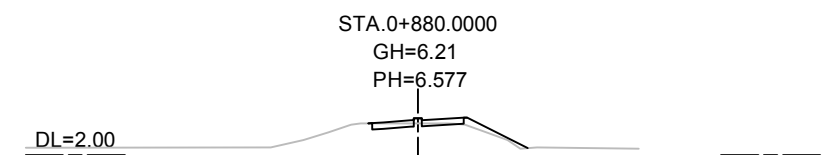
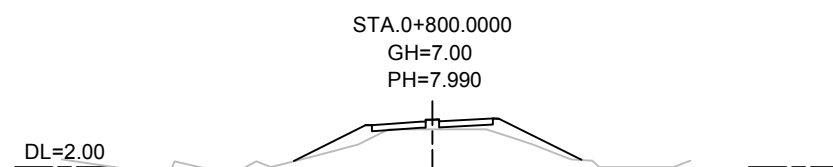
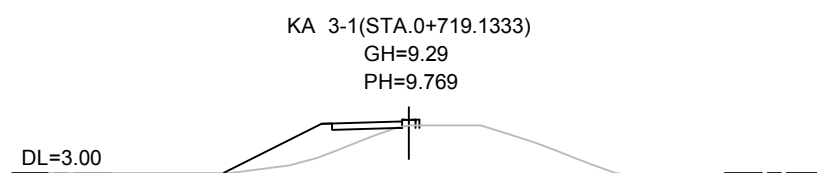
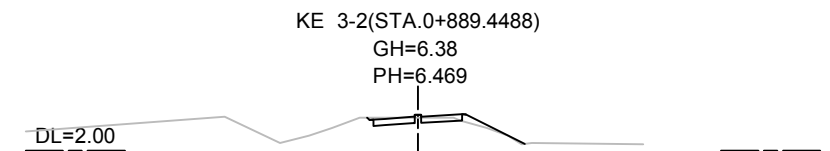
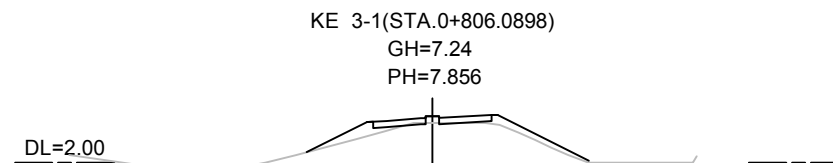
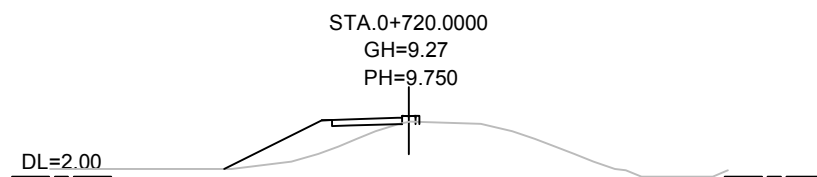
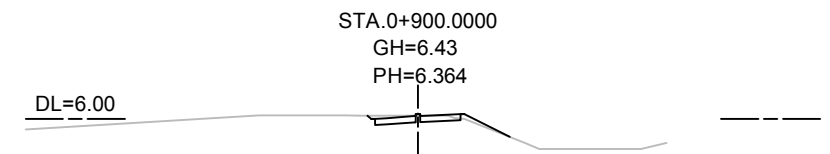
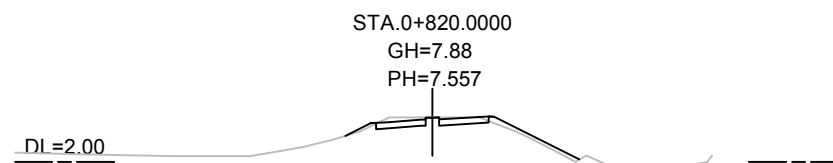
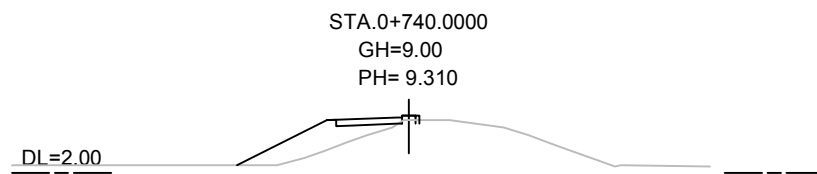
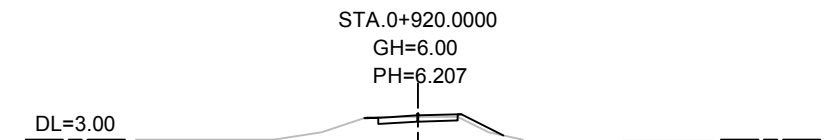
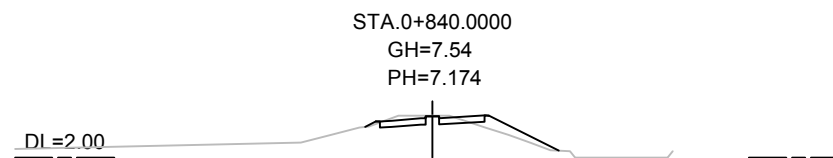
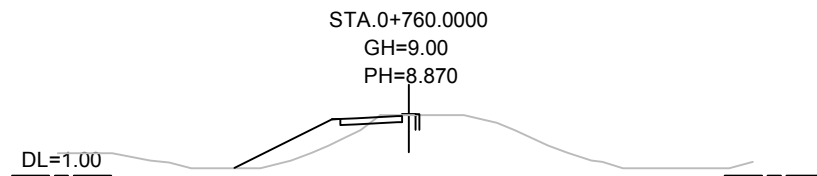
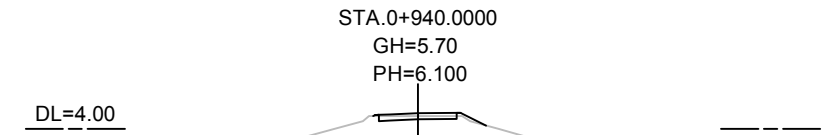
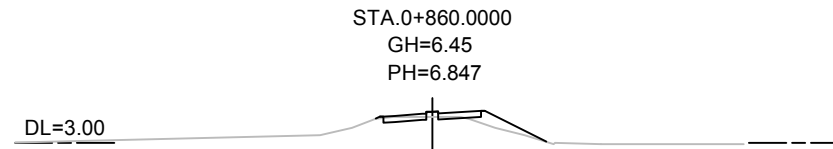
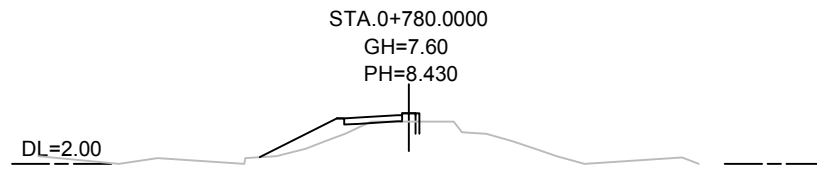
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 2 )  
GARAKOLA BRIDGE (A5;N-805\_24a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A5/CS-02

# CROSS SECTION ( 3 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No	REVISION	DATE

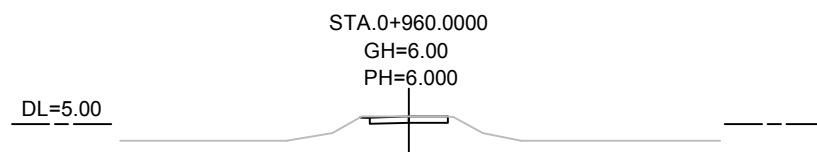
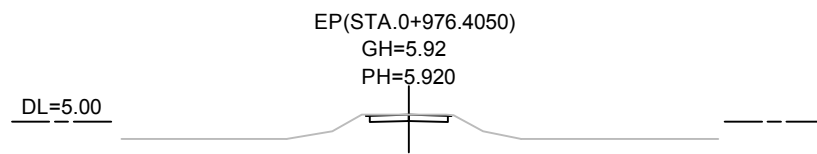
PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 3 )  
GARAKOLA BRIDGE (A5;N-805\_24a)

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	A5/CS-03

# CROSS SECTION ( 4 )

Scale 1:1000



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MRTB)  
PEOPLE'S REPUBLIC OF BANGLADESH  
ROADS & HIGHWAYS DEPARTMENT(RHD)



JAPAN INTERNATIONAL COOPERATION AGENCY



ORIENTAL CONSULTANTS GLOBAL CO., LTD.  
PADECO CO.,LTD



No

REVISION

DATE

PREPARATORY SURVEY ON THE CROSS-BORDER  
ROAD NETWORK IMPROVEMENT PROJECT (BANGLADESH)

Cross Section( 4 )  
GARAKOLA BRIDGE (A5;N-805\_24a)

DESIGNED BY:

CHECKED BY:

APPROVED BY:

DWG. NO.

A5/CS-04