



National Highway Authority of India

Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town" (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh.

HIGHWAY DRAWINGS **(CHAINAGE 0+000 TO 13+700)**

DESIGN CONSULTANT



CIVILMANTRA INFRACON PVT.LTD

EPC CONTRACTOR

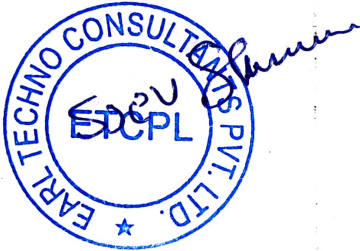


DEV YASH PROJECTS &
INFRASTRUCTURE PVT. LTD.

MAIN CARRIAGEWAY DRAWINGS

ALIGNMENT REPORT

HORIZONTAL ALIGNMENT REPORT													
Intersection Point Chainage	Intersection Point X	Intersection Point Y	Arc Start Chainage	Arc End Chainage	Arc Length	Radius	Extra Width	Hand of Arc	Transition Start Chainage	Transition End Chainage	Transition Length	Speed	Superelevation (%)
0+230.492	301879.784	3186831.155	0+226.520	0+234.463	7.942	2000	-	Left	-	-	-	100	-
0+372.346	302019.725	3186807.933	0+237.131	0+507.554	270.423	15500	-	Right	-	-	-	100	-
0+982.367	302624.495	3186736.349	0+677.794	1+125.680	447.886	258	0.900	Left	0+615.794	1+187.680	62	65	5.00
1+594.171	302514.892	3187500.97	1+321.017	1+831.030	510.013	575	-	Right	1+231.017	1+921.030	90	100	5.00
2+069.884	302872.379	3187867.037	1+925.671	2+214.090	288.419	16500	-	Left	-	-	-	100	-
8+412.250	307443.972	3192263.034	7+444.688	9+073.260	1628.571	1200	-	Right	7+404.688	9+113.260	40	100	3.70
10+593.935	309475.499	3190826.438	10+447.626	10+740.229	292.603	12000	-	Left	-	-	-	100	-
11+019.384	309827.202	3190587.013	10+765.268	11+273.390	508.121	10000	-	Right	-	-	-	100	-
11+411.372	310139.698	3190350.187	11+273.920	11+548.808	274.887	10400	-	Left	-	-	-	100	-
13+143.914	311547.697	3189340.584	12+984.441	13+206.611	222.170	120	0.900	Left	-	-	-	50	5.00
13+478.199	311701.881	3189742.733	13+388.488	13+560.753	172.265	250	0.900	Right	13+338.488	13+610.753	50	50	4.44



R1	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R0	SEPT-2023	SUBMISSION OF ALIGNMENT REPORT			
REV	DATE	DESCRIPTION	A	B	C



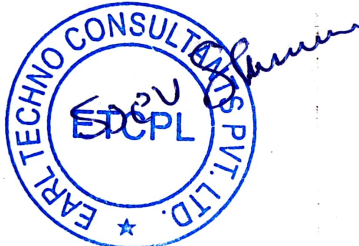
PROJECT :
Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town" (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :
HORIZONTAL ALIGNMENT REPORT

SCALE : AS SHOWN PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/AR/ 001			
DATE : MAR.-2026		REV:R1	
DESIGNED PM	DRAWN YK	CHECKED AK	APPROVED SM

VERTICAL ALIGNMENT REPORT											
Sr.No.	Intersection Point Chainage	Intersection Point Level	Curve Start Gradient (%)	Curve End Gradient (%)	Curve length (m)	K Value	Curve Type	Curve Start Chainage	Curve Start Level	Curve End Chainage	Curve End Level
1	261.640	190.456	0.170	2.500	100	42.883	Sag	211.640	190.371	311.640	191.706
2	535.000	197.290	2.500	0.000	340	136.000	Crest	365.000	193.040	705.000	197.290
3	974.990	197.290	0.000	-2.500	340	136.000	Crest	804.990	197.290	1144.990	193.040
4	1355.630	187.774	-2.500	1.120	240	66.226	Sag	1235.630	190.774	1475.630	189.118
5	1576.060	190.251	1.120	0.440	60	87.827	Crest	1546.060	189.915	1606.060	190.383
6	1869.980	191.547	0.440	-0.150	60	100.747	Crest	1839.980	191.415	1899.980	191.502
7	2075.830	191.229	-0.150	-1.100	60	63.489	Crest	2045.830	191.274	2105.830	190.899
8	2236.070	189.466	-1.100	0.540	70	42.706	Sag	2201.070	189.851	2271.070	189.655
9	2494.350	190.859	0.540	-0.530	60	56.020	Crest	2464.350	190.697	2524.350	190.700
10	2718.210	189.669	-0.530	0.740	60	47.203	Sag	2688.210	189.828	2748.210	189.891
11	2945.460	191.349	0.740	-0.410	60	52.264	Crest	2915.460	191.127	2975.460	191.226
12	3148.290	190.520	-0.410	1.450	80	43.043	Sag	3108.290	190.684	3188.290	191.100
13	3340.000	193.300	1.450	0.000	60	41.379	Crest	3310.000	192.865	3370.000	193.300
14	3730.000	193.300	0.000	-0.710	60	84.694	Crest	3700.000	193.300	3760.000	193.087
15	4241.500	189.676	-0.710	0.480	110	92.343	Sag	4186.500	190.067	4296.500	189.940
16	4465.080	190.756	0.480	-0.420	60	66.551	Crest	4435.080	190.612	4495.080	190.630
17	4661.830	189.932	-0.420	0.820	60	48.491	Sag	4631.830	190.058	4691.830	190.178
18	4894.980	191.840	0.820	-0.560	60	43.415	Crest	4864.980	191.594	4924.980	191.672
19	5092.130	190.729	-0.560	1.470	90	44.229	Sag	5047.130	190.981	5137.130	191.391
20	5512.080	196.908	1.470	-2.000	485	139.715	Crest	5269.580	193.343	5754.580	192.058
21	5812.020	190.910	-2.000	0.340	100	42.782	Sag	5762.020	191.910	5862.020	191.080
22	5981.640	191.482	0.340	-1.310	140	85.036	Crest	5911.640	191.244	6051.640	190.565
23	6135.320	189.470	-1.310	1.700	125	41.543	Sag	6072.820	190.289	6197.820	190.533
24	6397.110	193.921	1.700	-1.200	393	135.535	Crest	6200.610	190.581	6593.610	191.563
25	6671.520	190.629	-1.200	0.180	150	108.862	Sag	6596.520	191.529	6746.520	190.764
26	6853.830	190.954	0.180	0.510	60	182.349	Sag	6823.830	190.900	6883.830	191.107
27	7015.670	191.775	0.510	0.140	60	163.383	Crest	6985.670	191.622	7045.670	191.817
28	7176.300	192.000	0.140	0.920	60	76.839	Sag	7146.300	191.958	7206.300	192.276
29	7337.000	193.480	0.920	-0.300	60	49.143	Crest	7307.000	193.204	7367.000	193.390
30	7487.580	193.028	-0.300	2.500	120	42.857	Sag	7427.580	193.208	7547.580	194.528
31	7865.980	202.488	2.500	-0.800	450	136.368	Crest	7640.980	196.863	8090.980	200.688
32	8130.810	200.370	-0.800	-0.050	60	79.614	Sag	8100.810	200.610	8160.810	200.355
33	8286.470	200.298	-0.050	-0.870	60	73.253	Crest	8256.470	200.313	8316.470	200.037
34	8436.470	199.000	-0.870	1.260	90	42.387	Sag	8391.470	199.392	8481.470	199.567
35	8685.530	202.133	1.260	-1.390	358	135.237	Crest	8506.530	199.878	8864.530	199.645
36	8923.040	198.834	-1.390	1.250	110	41.679	Sag	8868.040	199.599	8978.040	199.522
37	9218.090	202.522	1.250	-2.300	480	135.211	Crest	8978.090	199.522	9458.090	197.002
38	9591.760	193.927	-2.300	1.570	161	41.602	Sag	9511.260	195.779	9672.260	195.191
39	9904.060	198.830	1.570	-1.810	457	135.134	Crest	9675.560	195.243	10132.560	194.694
40	10280.790	192.004	-1.810	0.300	110	52.178	Sag	10225.790	193.000	10335.790	192.169
41	10585.170	192.906	0.300	1.960	75	45.194	Sag	10547.670	192.794	10622.670	193.641
42	10867.930	198.437	1.960	-1.660	490	135.570	Crest	10622.930	193.635	11112.930	194.370
43	11173.500	193.369	-1.660	0.790	103	42.017	Sag	11122.000	194.224	11225.000	193.776
44	11389.210	195.080	0.790	-1.380	294	135.302	Crest	11242.210	193.919	11536.210	193.051
45	11594.560	192.246	-1.380	0.300	70	41.629	Sag	11559.560	192.729	11629.560	192.351
46	11834.810	192.970	0.300	2.500	145	65.955	Sag	11762.310	192.753	11907.310	194.783
47	12211.790	202.395	2.500	-1.000	473	135.143	Crest	11975.290	196.483	12448.290	200.030
48	12492.850	199.584	-1.000	1.060	86	41.771	Sag	12449.850	200.014	12535.850	200.040
49	12653.000	201.280	1.060	0.000	143	135.056	Crest	12581.500	200.522	12724.500	201.280
50	13050.000	201.280	0.000	-2.500	340	136.000	Crest	12880.000	201.280	13220.000	197.030
51	13526.480	189.368	-2.500	-0.030	105	42.584	Sag	13473.980	190.681	13578.980	189.352



R2	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R1	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R0	SEPT-2023	SUBMISSION OF ALIGNMENT REPORT			
REV	DATE	DESCRIPTION	A	B	C



PROJECT :
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DRAWING TITLE :	
VERTICAL ALIGNMENT REPORT	
SCALE : AS SHOWN	PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/AR/ 002			
DATE : MAR-2026		REV: R2	
DESIGNED	DRAWN	CHECKED	APPROVED
PM	YK	AK	SM

TYPICAL CROSS SECTIONS

TYPICAL CROSS SECTION SCHEDULE				
S. No.	Design Chainage (m)		Type	Length(m)
	From	To		
1	0	250	TCS -II	250
2	250	500	Interchange - 1 (TCS-1)	250
3	500	800	Interchange - 1 (TCS-2)	300
4	800	1290	TCS-III	490
5	1290	1600	TCS-I	310
6	1600	2066.5	TCS-IV(A)	467
7	2066.5	2073.5	TCS-V	7
8	2073.5	2500	TCS-IV(A)	427
9	2500	2950	TCS-I	450
10	2950	3100	TCS-IV(A)	150
11	3100	3385	TCS-I	285
12	3385	3715	TCS-VI	330
13	3715	3920	TCS-III	205
14	3920	5215	TCS-I	1295
15	5215	5470	TCS-III	255
16	5470	5482	TCS-V	12
17	5482	5690	TCS-III	208
18	5690	6100	TCS-I	410
19	6100	6436.5	TCS-III	337
20	6436.5	6443.5	TCS-V	7
21	6443.5	6762	TCS-III	319
22	6762	7300	TCS-I	538
23	7300	7510	TCS-IV(A)	210
24	7510	7802	TCS-III	292
25	7802	7902	TCS-III(A)	100

TYPICAL CROSS SECTION SCHEDULE				
S. No.	Design Chainage (m)		Type	Length(m)
	From	To		
26	7902	7962	TCS-V	60
27	7962	8200	TCS-III(A)	238
28	8200	8210	TCS-VI	10
29	8210	8230	TCS-III(A)	20
30	8230	8290	TCS-V	60
31	8290	8680	TCS-III(A)	390
32	8680	8720	TCS-V	40
33	8720	8820	TCS-III(A)	100
34	8820	9080	TCS-IV(B)	260
35	9080	9163	TCS-IV	83
36	9163	9203	TCS-V	40
37	9203	9350	TCS-IV	147
38	9350	9550	TCS-IV(B)	200
39	9550	9690	TCS-III(A)	140
40	9690	10480	TCS-I	790
41	10480	10856.5	TCS-III(A)	377
42	10856.5	10863.5	TCS-V	7
43	10863.5	11206	TCS-III(A)	343
44	11206	11226	TCS-VI	20
45	11226	11336.5	TCS-III(A)	111
46	11336.5	11343.5	TCS-V	7
47	11343.5	12250	TCS-III(A)	907
48	12250	12300	TCS-VI	50
49	12300	12725	TCS-III(A)	425
50	12725	12880	TCS-V	155
51	12880	13000	B-B	120
52	13000	13500	F-F	500
53	13500	13700	G-G	200
Total Length (m)				13700



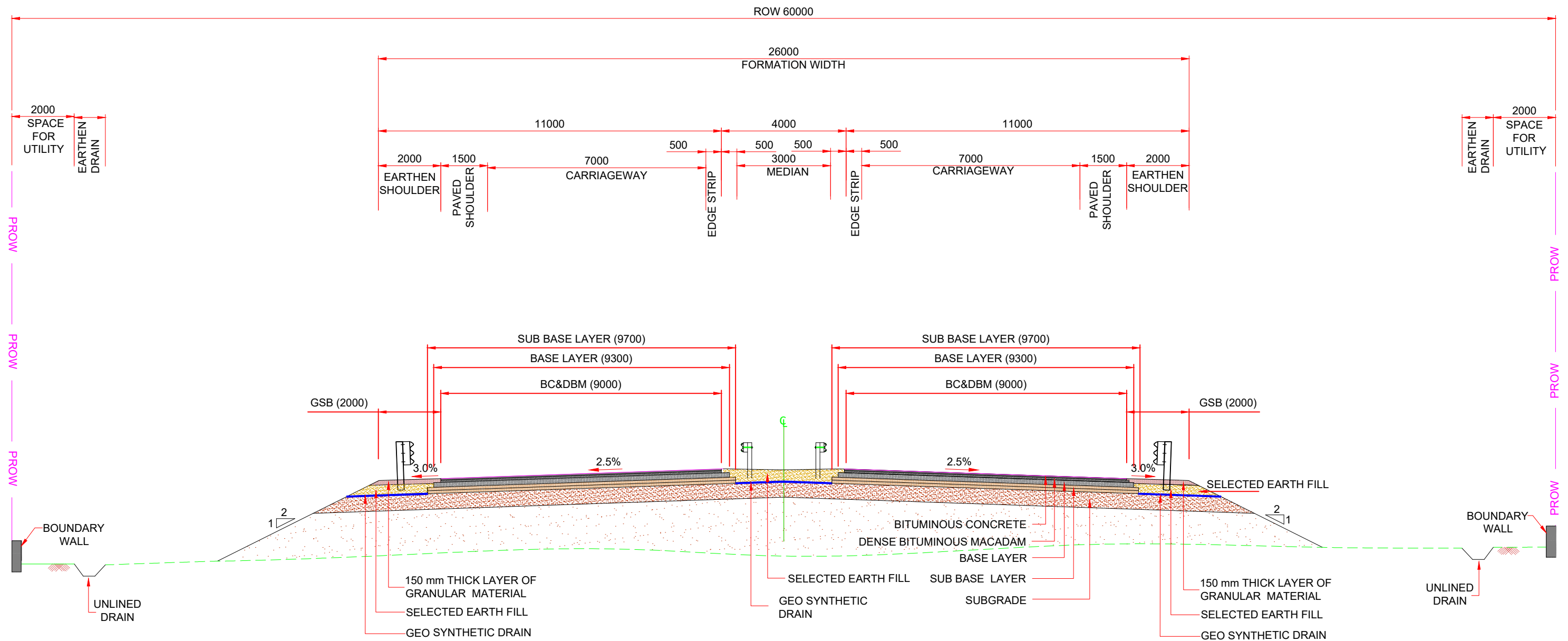
REV	DATE	DESCRIPTION	A	B	C



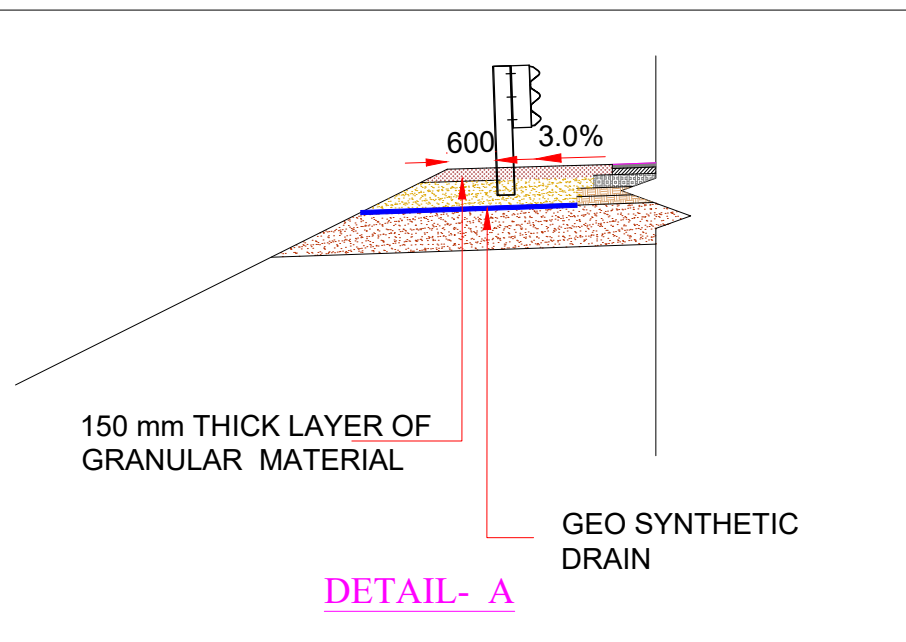
PROJECT :
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DRAWING TITLE :	
TCS SCHEDULE	
SCALE : AS SHOWN	PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCSS/001	
DATE : MAR. -2026	REV: R0
DESIGNED PM	DRAWN YK
CHECKED AK	APPROVED SM



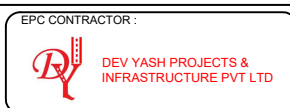
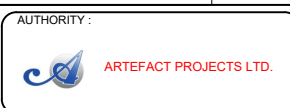
TCS-I
TYPICAL CROSS SECTION FOR 4-LANE
DIVIDED HIGHWAY WITHOUT SERVICE ROAD



NOTE

- All dimensions are in millimeter unless otherwise specified.
- Thickness of the Layers has been shown in Pavement design report.
- Kerb Channel & Chute Drain arrangement shall be provided for Embankment height>6m.
- Metal Beam Crash Barrier shall be provided for Embankment height>3m.
- Chute drain has been provided as per IRC Specifications.
- Slope Protection :-
 - 0-3 Turfing
 - 3-6 Coir Mat with Vetiver Grass
 - >6 Geocell with PCC

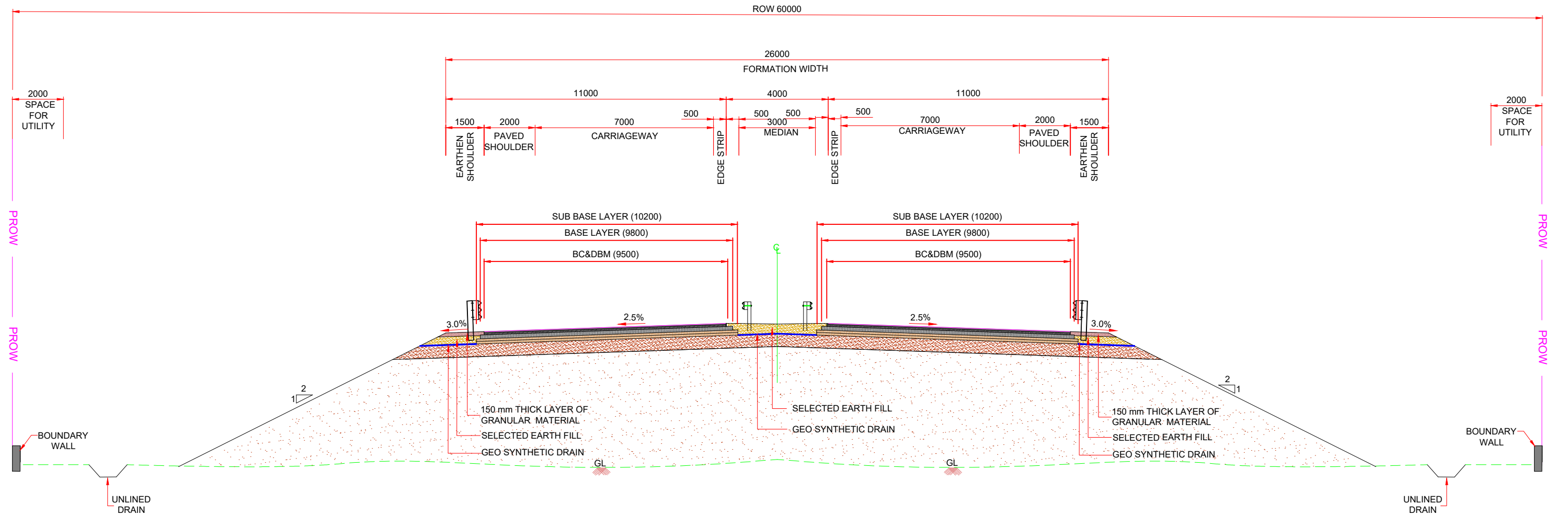
REV	DATE	DESCRIPTION	A	B	C
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			



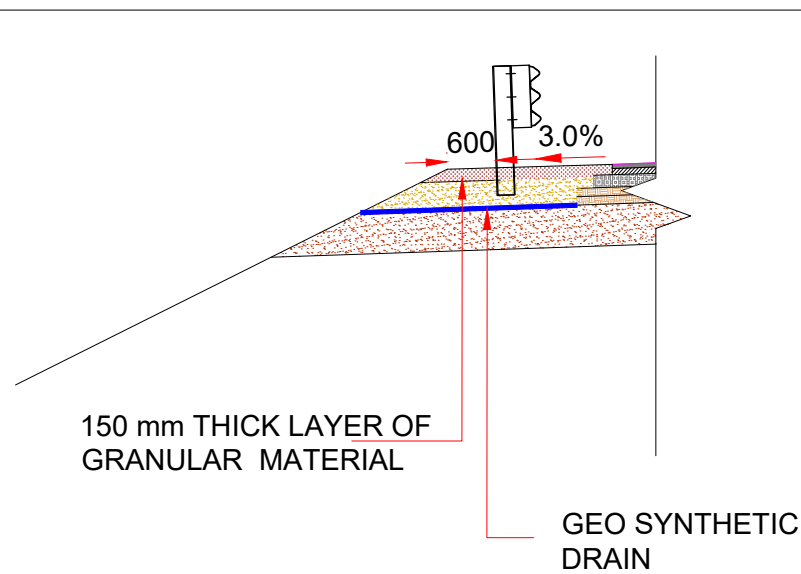
PROJECT :
Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town." (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :
TYPICAL CROSS SECTION
SCALE : AS SHOWN
PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/001	DATE : MAR.-2026	REV: R4
DESIGNED PM	DRAWN YK	CHECKED AK
		APPROVED SM



TCS-III
TYPICAL CROSS SECTION FOR 4-LANE
DIVIDED HIGHWAY VUP/LVUP/SVUP/FLYOVER APPROACH WITHOUT SERVICE ROAD/SLIP ROAD



DETAIL- A



NOTE

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- Thickness of the Layers has been shown in Pavement design report.
- Kerb Channel & Chute Drain arrangement shall be provided for Embankment height>6m.
- Metal Beam Crash Barrier shall be provided for Embankment height>3m.
- Chute drain has been provided as per IRC Specifications.
- Slope Protection :-
 - 0-3 Turfing
 - 3-6 Coir Mat with Vetiver Grass
 - >6 Geocell with PCC

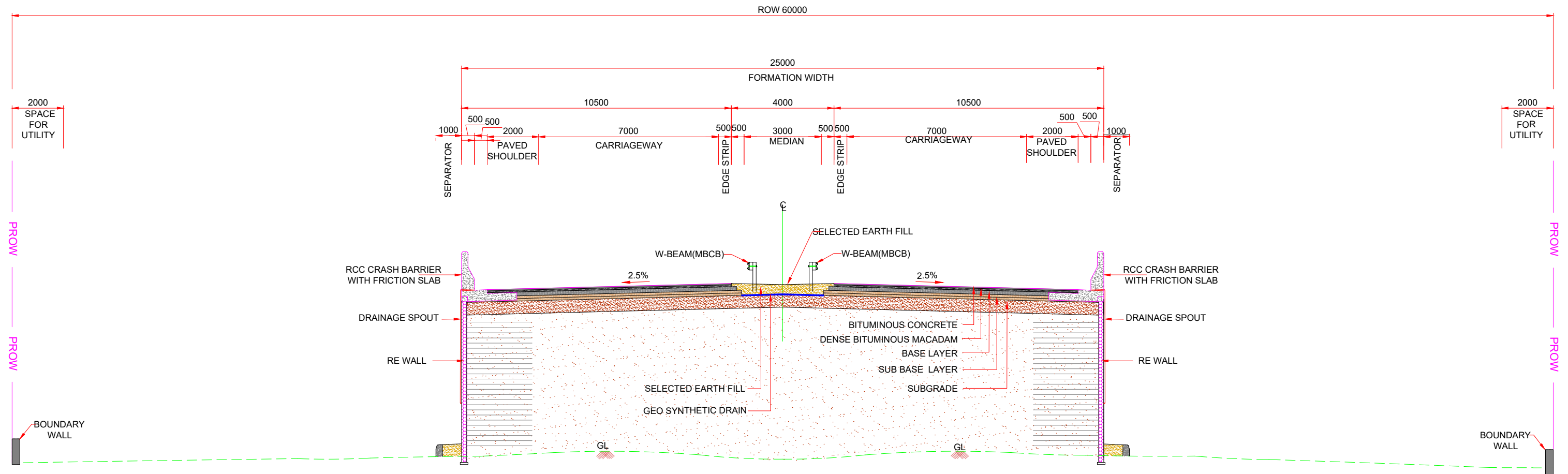
REV	DATE	DESCRIPTION	A	B	C
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			



PROJECT :
Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town." (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :
TYPICAL CROSS SECTION
SCALE : AS SHOWN
PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/002	DATE : MAR.-2026	REV: R4
DESIGNED PM	DRAWN YK	CHECKED AK
		APPROVED SM



TCS-III(A)
TYPICAL CROSS SECTION FOR 4-LANE
DIVIDED HIGHWAY

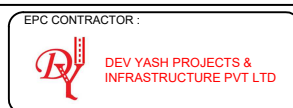
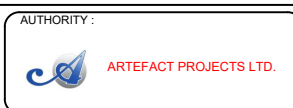


NOTE

- All dimensions are in millimeter unless otherwise specified.
- Thickness of the Layers has been shown in Pavement design report.
- Kerb Channel & Chute Drain arrangement shall be provided for Embankment height > 6m.
- Metal Beam Crash Barrier shall be provided for Embankment height > 3m.
- Chute drain has been provided as per IRC Specifications.
- Slope Protection :-

0-3 Turfing
3-6 Coir Mat with Vetiver Grass
>6 Geocell with PCC

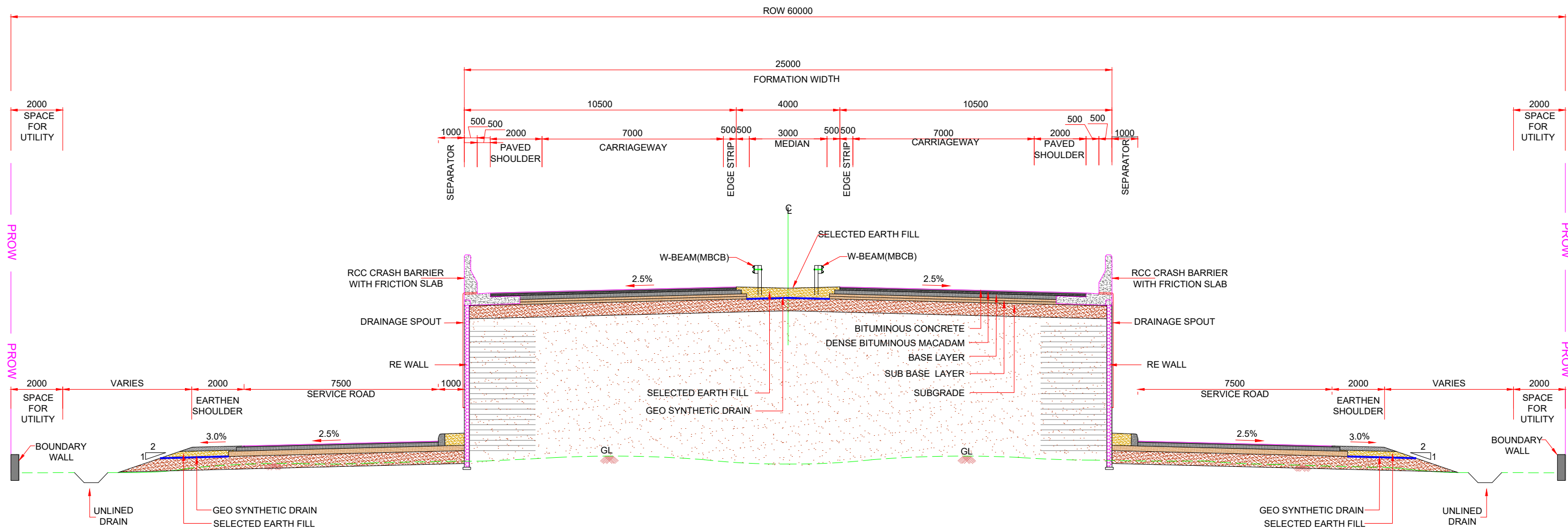
REV	DATE	DESCRIPTION	A	B	C
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			



PROJECT :
Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town." (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :
TYPICAL CROSS SECTION
SCALE : AS SHOWN
PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/003	DATE : MAR.-2026	REV: R4
DESIGNED PM	DRAWN YK	CHECKED AK
		APPROVED SM



TCS-IV
TYPICAL CROSS SECTION FOR 4-LANE
DIVIDED HIGHWAY WITH SERVICE ROAD
(APPLICABLE FOR HEIGHT >3.0M)

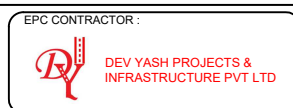
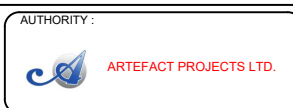
NOTE

- All dimensions are in millimeter unless otherwise specified.
- Thickness of the Layers has been shown in Pavement design report.
- Kerb Channel & Chute Drain arrangement shall be provided for Embankment height>6m.
- Metal Beam Crash Barrier shall be provided for Embankment height>3m.
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- Slope Protection :-

0-3 Turfing
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 >6 Geocell with PCC



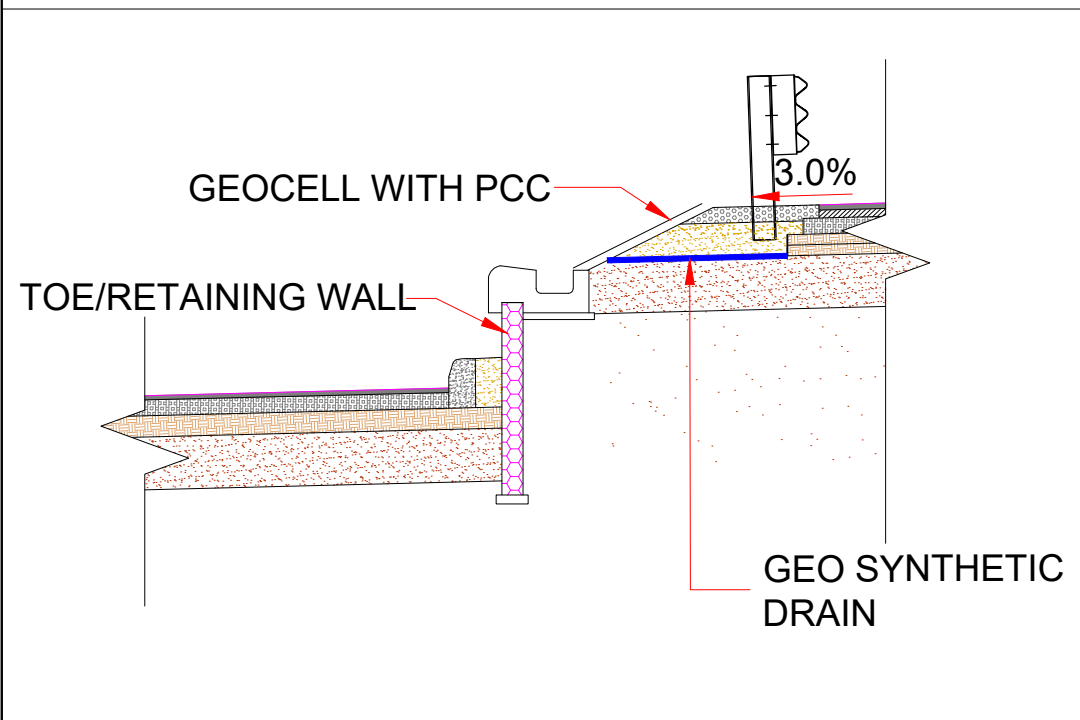
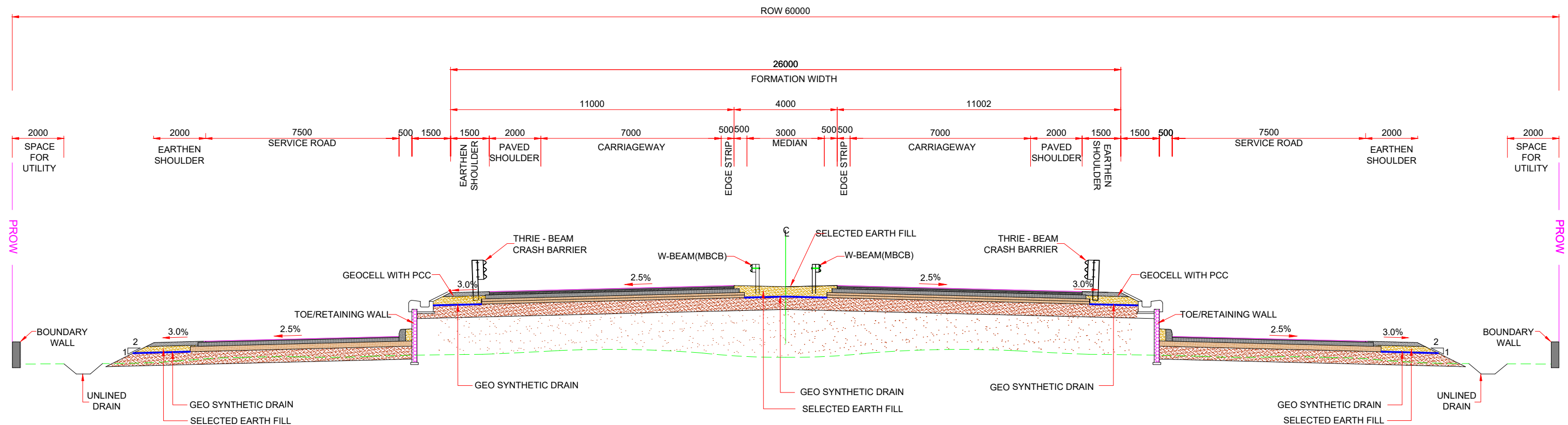
REV	DATE	DESCRIPTION	A	B	C
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			



PROJECT :
 Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town." (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :
TYPICAL CROSS SECTION
 SCALE : AS SHOWN PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/004			
DATE : MAR.-2026		REV: R4	
DESIGNED PM	DRAWN YK	CHECKED AK	APPROVED SM



TCS-IV (A)
TYPICAL CROSS SECTION FOR 4-LANE
DIVIDED HIGHWAY WITH SERVICE ROAD
(APPLICABLE FOR HEIGHT >3.0M)



NOTE

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- Thickness of the Layers has been shown in Pavement design report.
- Kerb Channel & Chute Drain arrangement shall be provided for Embankment height>6m.
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- Chute drain has been provided as per IRC Specifications.
- Slope Protection :-
 - 0-3 Turfing
 - 3-6 Coir Mat with Vetiver Grass
 - >6 Geocell with PCC

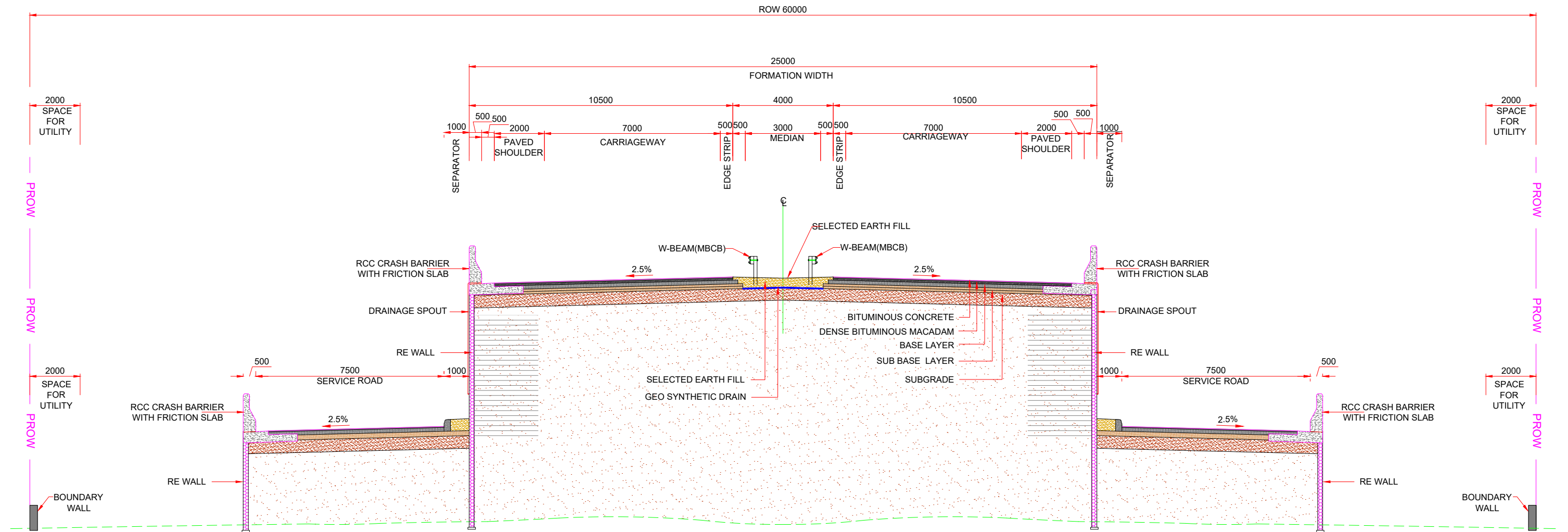
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			
REV	DATE	DESCRIPTION	A	B	C



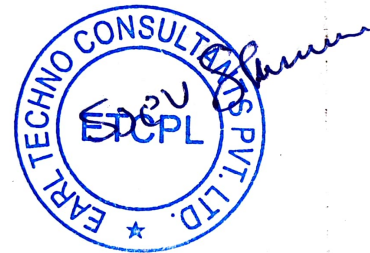
PROJECT :
Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town." (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :
TYPICAL CROSS SECTION
SCALE : AS SHOWN
PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/005	DATE : MAR.-2026	REV: R4
DESIGNED PM	DRAWN YK	CHECKED AK
		APPROVED SM



TCS-IV(B)
TYPICAL CROSS SECTION FOR 4-LANE
DIVIDED HIGHWAY WITH SERVICE ROAD



NOTE

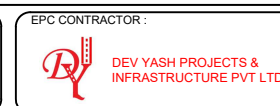
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- Slope Protection :-

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3-6 Coir Mat with Vetiver Grass

>6 Geocell with PCC

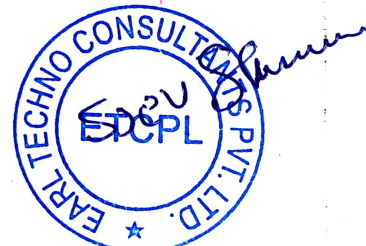
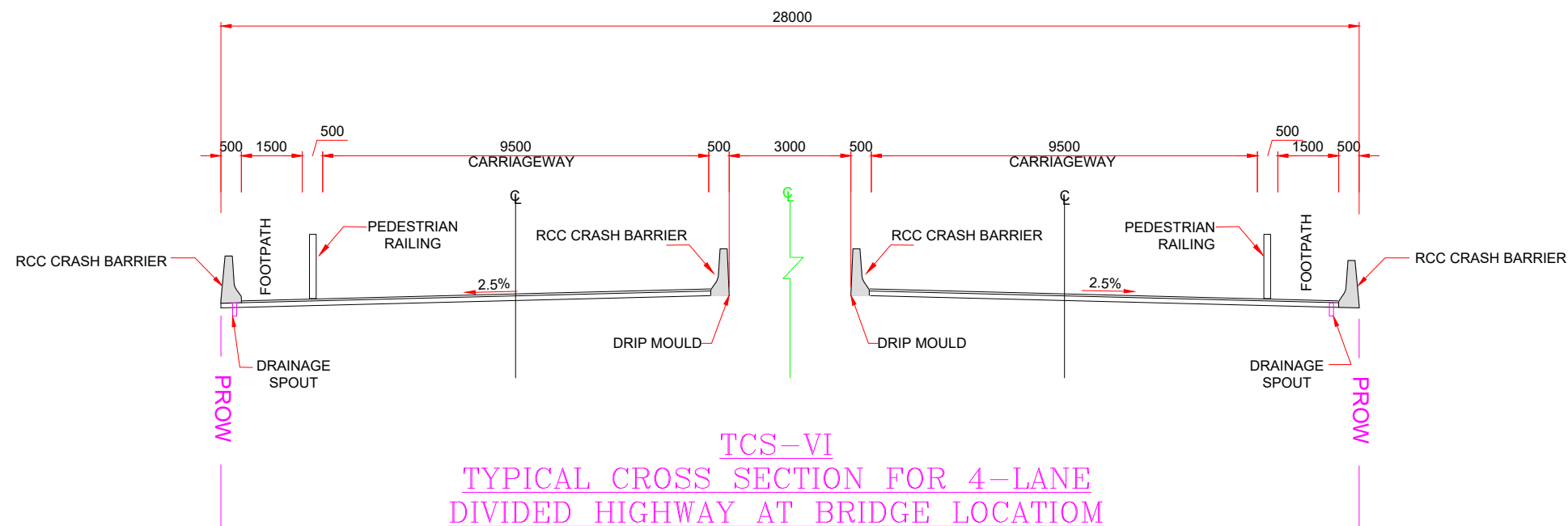
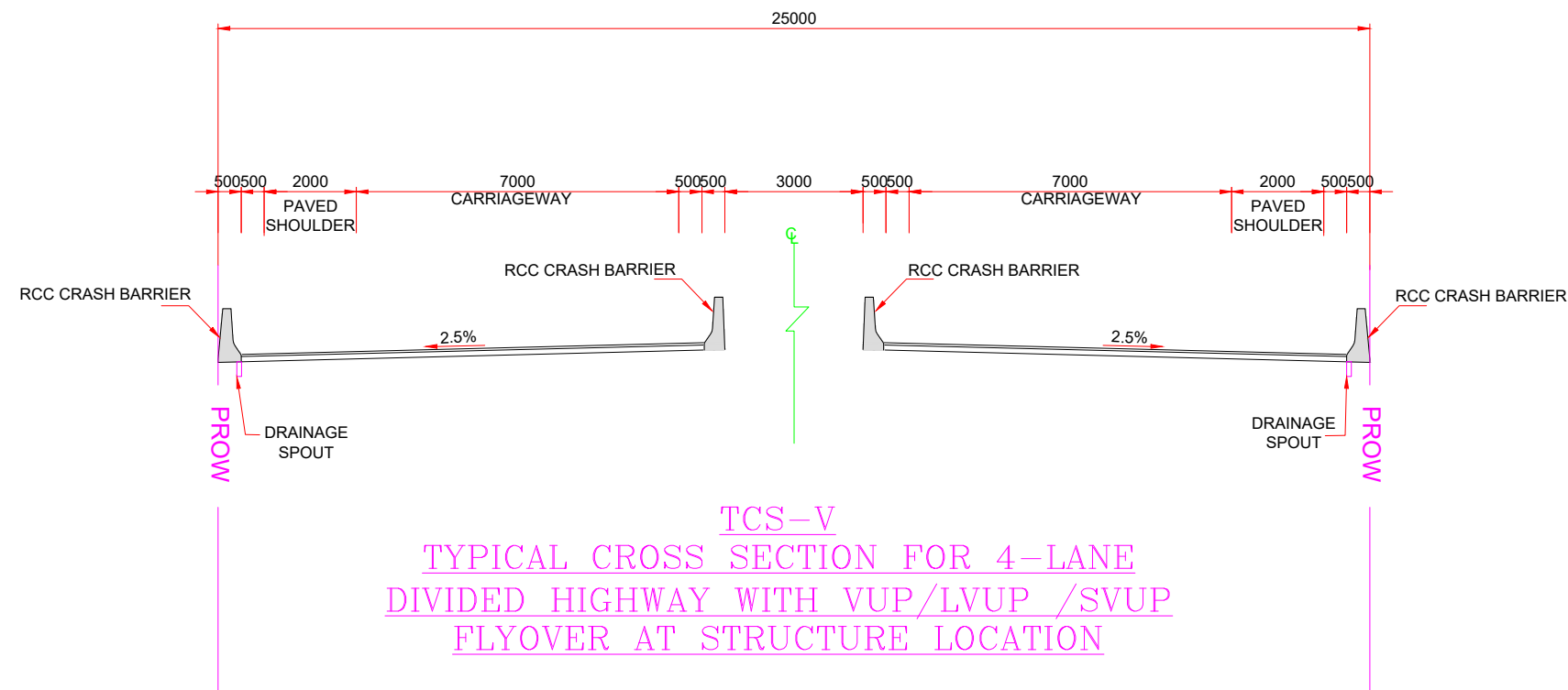
REV	DATE	DESCRIPTION	A	B	C
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			



PROJECT :
Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town." (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :			
TYPICAL CROSS SECTION			
SCALE : AS SHOWN	PAPER SIZE : A3		

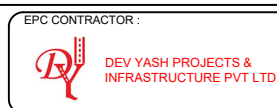
DRG.NO.CIPL/D1112/HW/DWG/TCS/006			
DATE : MAR.-2026		REV: R4	
DESIGNED PM	DRAWN YK	CHECKED AK	APPROVED SM



NOTE

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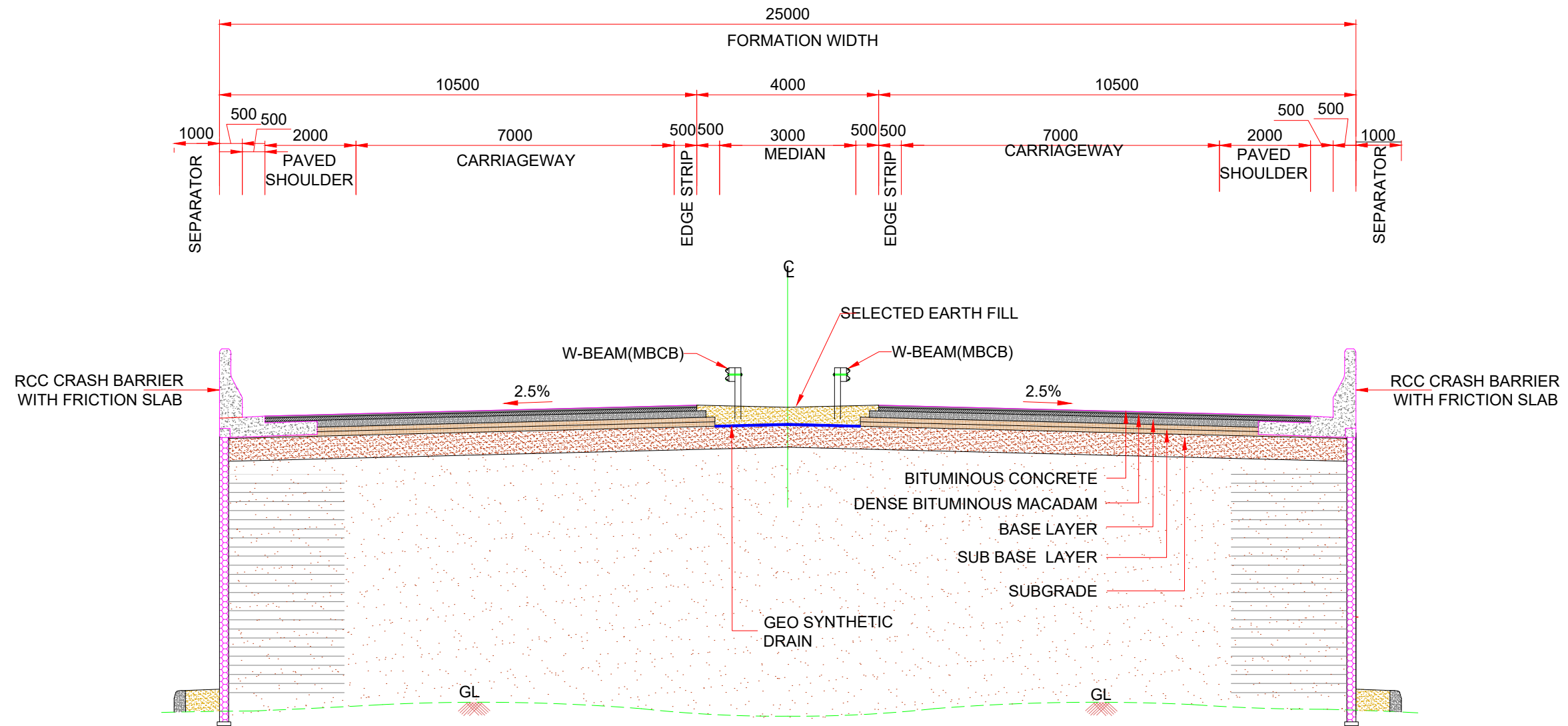
REV	DATE	DESCRIPTION	A	B	C
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			



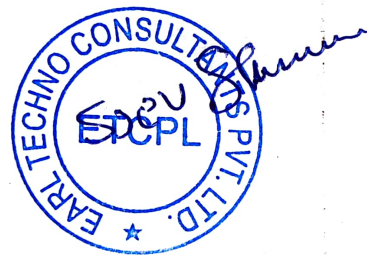
PROJECT :
Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town." (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :
TYPICAL CROSS SECTION
SCALE : AS SHOWN PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/007			
DATE : MAR.-2026		REV: R4	
DESIGNED PM	DRAWN YK	CHECKED AK	APPROVED SM



INTERCHANGE-2 SECTION-"B-B"

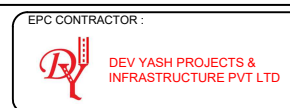


NOTE

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0-3 Turfing
3-6 Coir Mat with Vetiver Grass
>6 Geocell with PCC

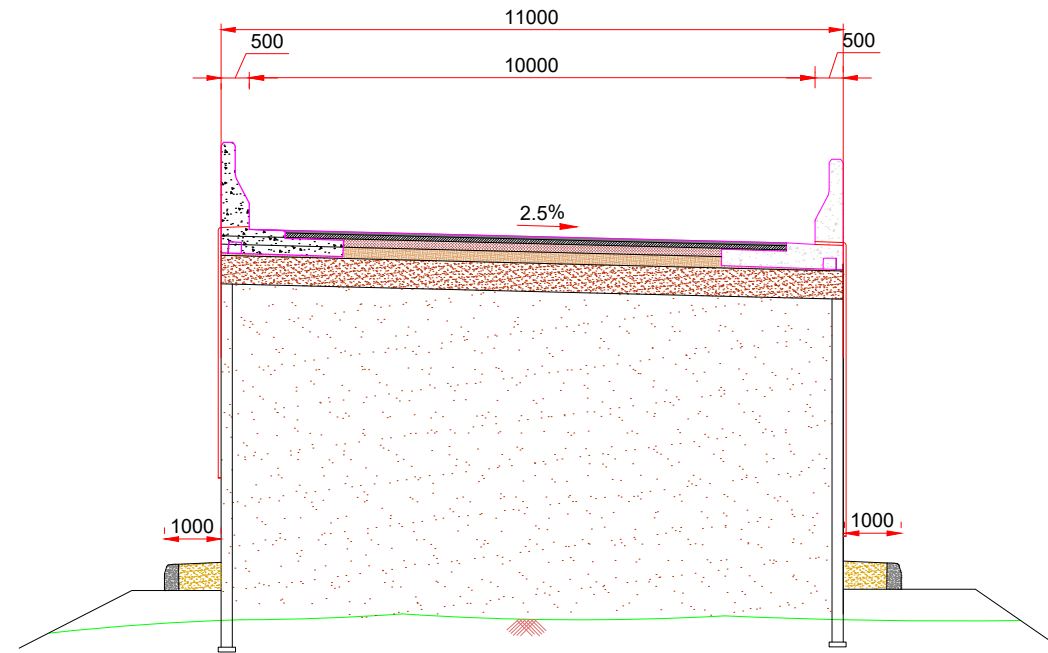
REV	DATE	DESCRIPTION	A	B	C
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			



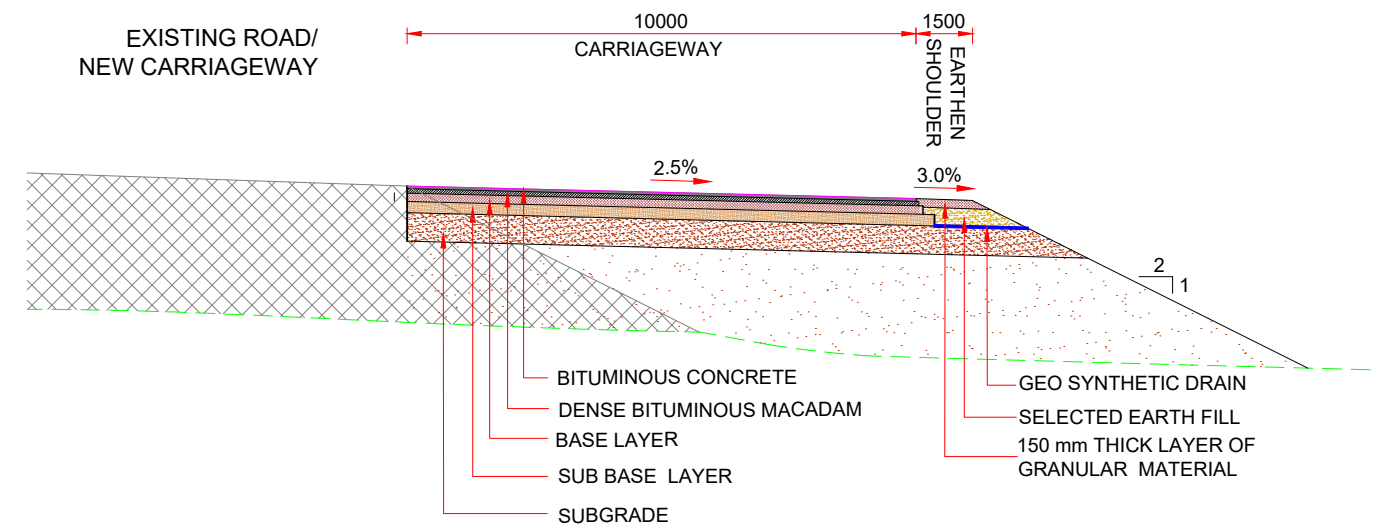
PROJECT :
Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town." (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

DRAWING TITLE :
TYPICAL CROSS SECTION
SCALE : AS SHOWN
PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/011			
DATE : MAR-2026		REV: R4	
DESIGNED PM	DRAWN YK	CHECKED AK	APPROVED SM



INTERCHANGE-2
SECTION-"F-F"

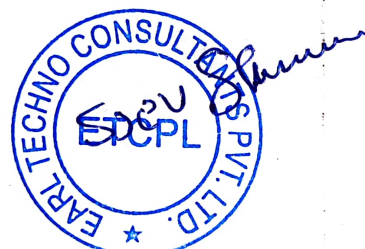


INTERCHANGE-2
SECTION-"G-G"

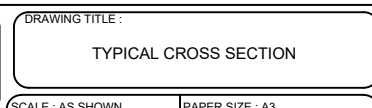
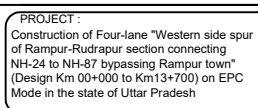
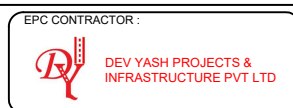
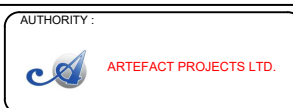
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>6 Geocell with PCC



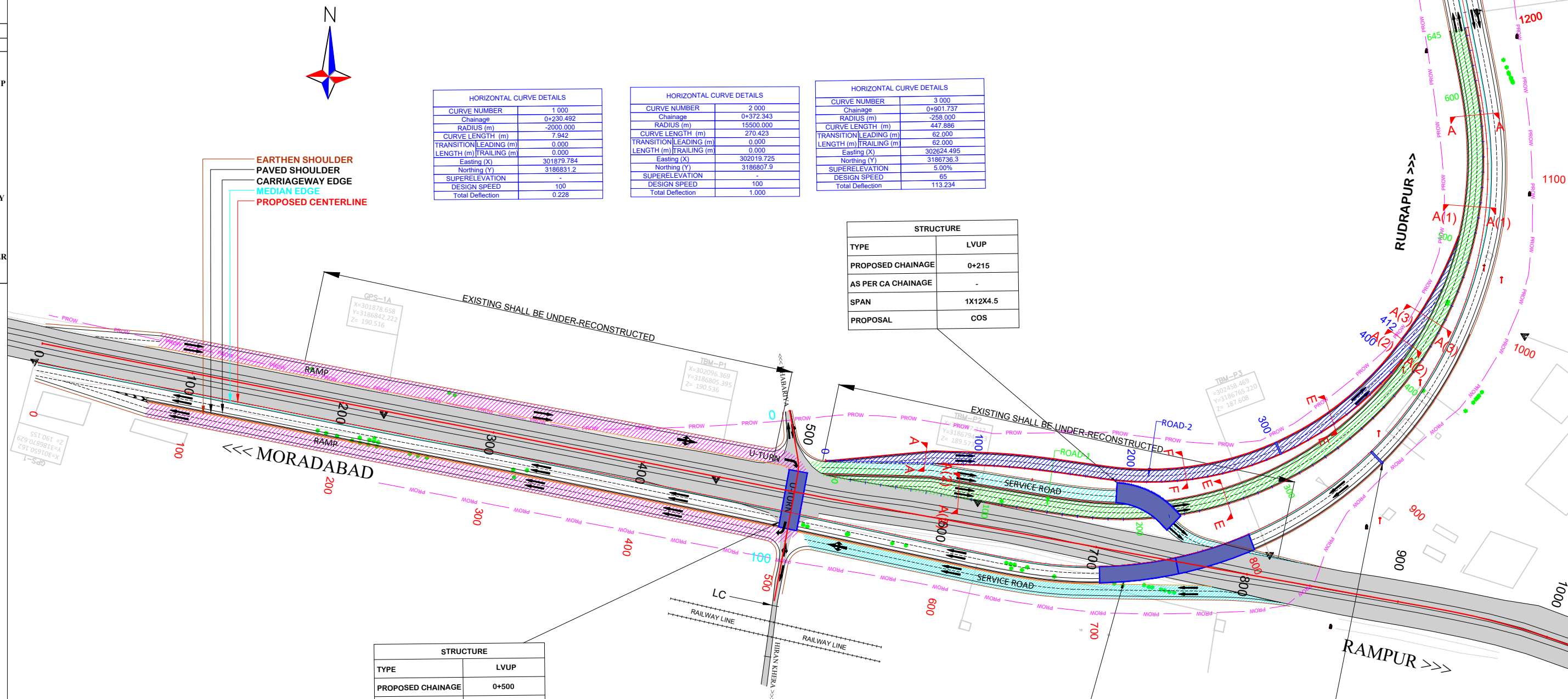
R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			
REV	DATE	DESCRIPTION	A	B	C



DRG.NO.CIPL/D1112/HW/DWG/TCS/012	DATE : MAR.-2026	REV: R4
DESIGNED PM	DRAWN YK	CHECKED AK
		APPROVED SM

PLAN & PROFILE

LEGEND:	
PLAN:--	
	MNB/MJB
	VUP/LVUP/SVUP
	CULVERT
	PROW
	EARTH WORK
	PROPOSED CENTER LINE
	PROPOSED MEDIAN
	CARRIAGEWAY EDGE
	EARTHEN SHOULDER
	SEPARATOR
	CRASH BARRIER



STRUCTURE	
TYPE	LVUP
PROPOSED CHAINAGE	0+500
AS PER CA CHAINAGE	-
SPAN	1X12X4.5
PROPOSAL	COS

STRUCTURE	
TYPE	FLYOVER
PROPOSED CHAINAGE	0+755
AS PER CA CHAINAGE	0+770
SPAN	2X50m
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	PIPE CULVERT
PROPOSED CHAINAGE	0+902
AS PER CA CHAINAGE	0+915
SPAN	1X1.2 Dia.
PROPOSAL	NEW CONSTRUCTION

LEGENDS :-

	ROAD-1 (FROM MORADABAD TO RUDRAPUR)
	ROAD-2 (FOR U-TRUN TO MORADABAD)
	FROM RUDRAPUR TO MORADABAD (MCW)

R4	MAR.-2026	REVISED AS PER AE OBSERVATIONS			
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R2	DEC.-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT.-2023	REVISED AS PER AE OBSERVATIONS			
REV	DATE	DESCRIPTION	A	B	C

CLIENT:



NATIONAL HIGHWAYS
AUTHORITY OF INDIA

AUTHORITY :

 ARTEFACT PROJECTS LTD.

EPC CONTRACTOR :

 DEV YASH PROJECTS &
INFRASTRUCTURE PVT LTD

PROOF CONSULTANT :

 HIGHRAISE CONSTRUCTION AND
 CONSULTANT PRIVATE LIMITED

SAFETY CONSULTANT :

EARL TECHNO
CONSULTANTS PVT. LTD.
EARL TECHNO CONSULTANTS PVT. LTD

DESIGN CONSULTANT :



CIVILMANTRA
Shaping Results with Innovation Ideas

CIVIL MANTRA INFRACON PVT LTD.

PROJECT :
Construction of Four-lane "Western side spur
of Rampur-Rudrapur section connecting
NH-24 to NH-87 bypassing Rampur town"
(Design Km 00+000 to Km13+700) on EPC
Mode in the state of Uttar Pradesh

DRAWING TITLE :	
PLAN FROM CH. 0+000 TO CH. 1+000	
SCALE : AS SHOWN	PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/ 001			
DATE : MAR.-2026			REV: R4
DESIGNED PM	DRAWN YK	CHECKED AK	APPROVED SM

LEGEND:

PROFILE:-

BOX CULVERT

UNDERPASSES/
MNB/MJB/
FLYOVER

FINISHED ROAD
LEVEL

LEVEL BELOW
PROPOSED CL

GL OFFSET LHS

GL OFFSET RHS

Legend:

- BOX CULVERT
- UNDERPASSES/ MNB/MJB/ FLYOVER
- FINISHED ROAD LEVEL
- LEVEL BELOW PROPOSED CL
- GL OFFSET LHS
- GL OFFSET RHS

Profile Data:

Chainage	Finished Road Level	Ground Level	Ground Level @ 15M Left	Ground Level @ 15M Right
0	190.016	190.066	190.247	186.353
10	190.033	190.123	190.213	186.896
20	190.050	190.102	190.154	186.978
30	190.067	189.986	190.179	186.998
40	190.083	189.991	190.174	187.227
50	190.100	190.058	190.181	188.179
60	190.117	189.986	190.269	188.768
70	190.134	189.889	190.213	188.869
80	190.151	189.494	190.246	187.863
90	190.168	189.917	190.282	187.848
100	190.184	189.692	190.262	188.074
110	190.201	189.981	190.355	188.111
120	190.218	189.867	190.306	188.026
130	190.235	189.582	190.326	187.956
140	190.252	189.210	190.374	187.470
150	190.268	189.533	190.358	187.068
160	190.285	189.463	190.422	186.841
170	190.302	189.550	190.386	186.657
180	190.319	189.515	190.364	186.632
190	190.336	188.994	190.387	186.596
200	190.352	188.346	190.362	186.651
210	190.369	188.314	190.425	186.615
220	190.394	188.437	190.351	186.493
230	190.442	189.155	190.446	186.559
240	190.513	189.239	190.347	186.649
250	190.608	188.943	190.478	186.636
260	190.726	188.279	190.334	186.532
270	190.867	188.070	190.491	186.502
280	191.032	188.212	190.342	186.495
290	191.220	188.462	190.376	186.464
300	191.431	188.405	190.344	186.433
310	191.665	187.899	190.457	186.430
320	191.915	187.951	190.388	186.447
330	192.165	187.890	190.353	186.481
340	192.415	187.851	190.346	186.482
350	192.665	187.757	190.318	186.476
360	192.915	187.387	190.457	186.502
370	193.164	187.499	190.349	186.529
380	193.407	188.048	190.319	186.486
390	193.642	188.078	190.324	186.412
400	193.870	188.028	190.334	186.380
410	194.091	188.092	190.310	186.372
420	194.304	188.353	190.306	186.396
430	194.510	188.270	190.322	186.412
440	194.708	188.120	190.337	186.409
450	194.899	188.404	190.326	186.395
460	195.083	188.357	190.213	186.390
470	195.260	188.134	190.189	186.459
480	195.429	189.125	190.348	186.597
490	195.591	189.882	190.333	187.290
500	195.745	189.845	190.182	188.028
510	195.892	189.867	190.205	187.808
520	196.032	187.992	190.199	186.343
530	196.164	187.502	190.202	186.310
540	196.289	186.785	190.148	186.305
550	196.407	186.745	190.116	186.292
560	196.517	186.578	190.102	186.294
570	196.620	187.607	189.967	186.286
580	196.716	187.728	189.815	186.271
590	196.804	186.977	189.796	186.249
600	196.885	186.921	189.714	186.351
610	196.958	186.597	189.740	186.458
620	197.024	186.566	189.595	186.901
630	197.083	186.529	189.341	187.149
640	197.135	186.757	189.251	187.403
650	197.179	187.351	189.231	187.646
660	197.216	187.552	189.139	187.807
670	197.245	187.358	189.129	187.460
680	197.267	187.207	188.998	187.383
690	197.282	187.459	188.929	187.305
700	197.289	187.756	188.826	187.172
710	197.290	187.578	188.684	186.907
720	197.290	187.527	188.499	186.338
730	197.290	187.631	188.311	186.370
740	197.290	188.242	188.333	186.920
750	197.290	188.401	188.310	187.364
760	197.290	188.310	188.319	187.212
770	197.290	188.330	188.974	188.146
780	197.290	188.067	188.748	188.289
790	197.290	187.608	188.866	188.271
800	197.290	187.234	187.033	187.734
810	197.289	187.161	186.771	187.675
820	197.282	187.028	186.825	187.320
830	197.245	186.882	186.805	187.188
840	197.216	186.739	186.812	186.947
850	197.216	186.744	186.816	186.876
860	197.179	186.746	186.836	186.831
870	197.135	186.751	186.857	186.799
880	197.083	186.871	186.945	186.913
890	197.024	187.000	187.004	187.001
900	196.958	186.958	187.004	186.968
910	196.885	186.942	186.874	186.936
920	196.804	186.715	186.880	187.124
930	196.715	186.089	186.919	187.077
940	196.620	186.965	186.922	186.999
950	196.517	186.899	186.922	186.926
960	196.407	186.860	186.967	186.892
970	196.289	186.758	186.951	186.857
980	196.164	186.688	186.917	186.840
990	196.032	186.648	186.788	186.808
1000	195.892			

Horizontal Data:

Chainage Range	Horizontal Curve Data
0 - 226.520m <td>L=226.520m</td>	L=226.520m
226.520m - 270.423m <td>R=15500.000m, L=270.423m</td>	R=15500.000m, L=270.423m
270.423m - 340.000m <td>L=108.240m</td>	L=108.240m
340.000m - 62.000m <td>A=15996.000, L=62.000m</td>	A=15996.000, L=62.000m
62.000m - 258.000m <td>R=258.000m</td>	R=258.000m
258.000m - 447.886m <td>L=447.886m</td>	L=447.886m

Vertical Data:

Chainage Range	Vertical Curve Data
0 - 211.642m <td>G=0.168, L=211.642m</td>	G=0.168, L=211.642m
211.642m - 100.000m <td>R=4288.347m, L=100.000m</td>	R=4288.347m, L=100.000m
100.000m - 53.358m <td>G=2.500, L=53.358m</td>	G=2.500, L=53.358m
53.358m - 340.000m <td>L=340.000m, R=-13600.000m</td>	L=340.000m, R=-13600.000m
340.000m - 99.992m <td>L=99.992m, G=0.000</td>	L=99.992m, G=0.000
99.992m - 340.000m <td>L=340.000m, R=-13600.001m</td>	L=340.000m, R=-13600.001m

Superelevation Data:

Chainage Range	Superelevation Data
0 - 270.423m <td>Q=2.500</td>	Q=2.500
270.423m - 1000m <td>Q=5.000</td>	Q=5.000

Chainage Data:

Chainage	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
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Level Datum = 180.000

Horizontal Curve Data:

- L=226.520m
- R=15500.000m, L=270.423m
- L=108.240m
- A=15996.000, L=62.000m
- R=258.000m
- L=447.886m

Vertical Curve Data:

- G=0.168, L=211.642m
- R=4288.347m, L=100.000m
- G=2.500, L=53.358m
- L=340.000m, R=-13600.000m
- L=99.992m, G=0.000
- L=340.000m, R=-13600.001m

Superelevation Data:

- Q=2.500
- Q=5.000

Chainage Data:

Chainage	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
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Horizontal Curve Data:

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- L=108.240m
- A=15996.000, L=62.000m
- R=258.000m
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Vertical Curve Data:

- G=0.168, L=211.642m
- R=4288.347m, L=100.000m
- G=2.500, L=53.358m
- L=340.000m, R=-13600.000m
- L=99.992m, G=0.000
- L=340.000m, R=-13600.001m

Superelevation Data:

- Q=2.500
- Q=5.000

Chainage Data:

Chainage	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
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Level Datum = 180.000

Horizontal Curve Data:

- L=226.520m
- R=15500.000m, L=270.423m
- L=108.240m
- A=15996.000, L=62.000m
- R=258.000m
- L=447.886m

Vertical Curve Data:

- G=0.168, L=211.642m
- R=4288.347m, L=100.000m
- G=2.500, L=53.358m
- L=340.000m, R=-13600.000m
- L=99.992m, G=0.000
- L=340.000m, R=-13600.001m

Superelevation Data:

- Q=2.500
- Q=5.000

Chainage Data:

Chainage	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
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Level Datum = 180.000

Horizontal Curve Data:

- L=226.520m
- R=15500.000m, L=270.423m
- L=108.240m
- A=15996.000, L=62.000m
- R=258.000m
- L=447.886m

Vertical Curve Data:

- G=0.168, L=211.642m
- R=4288.347m, L=100.000m
- G=2.500, L=53.358m
- L=340.000m, R=-13600.000m
- L=99.992m, G=0.000
- L=340.000m, R=-13600.001m

Superelevation Data:

- Q=2.500
- Q=5.000

Chainage Data:

Chainage	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460
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PLAN:-

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This figure is a detailed engineering drawing of a road project, specifically a four-lane highway with a median, showing both plan and profile views. The drawing includes various tables, legends, and graphical elements.

Legend:

- PLAN:-
 - MNB/MJB
 - VUP/LVUP/SVUP
 - CULVERT
 - PROW
 - EARTH WORK
 - PROPOSED CENTER LINE
 - PROPOSED MEDIAN
 - CARRIAGEWAY EDGE
 - EARTHEN SHOULDER
 - SEPARATOR
 - CRASH BARRIER

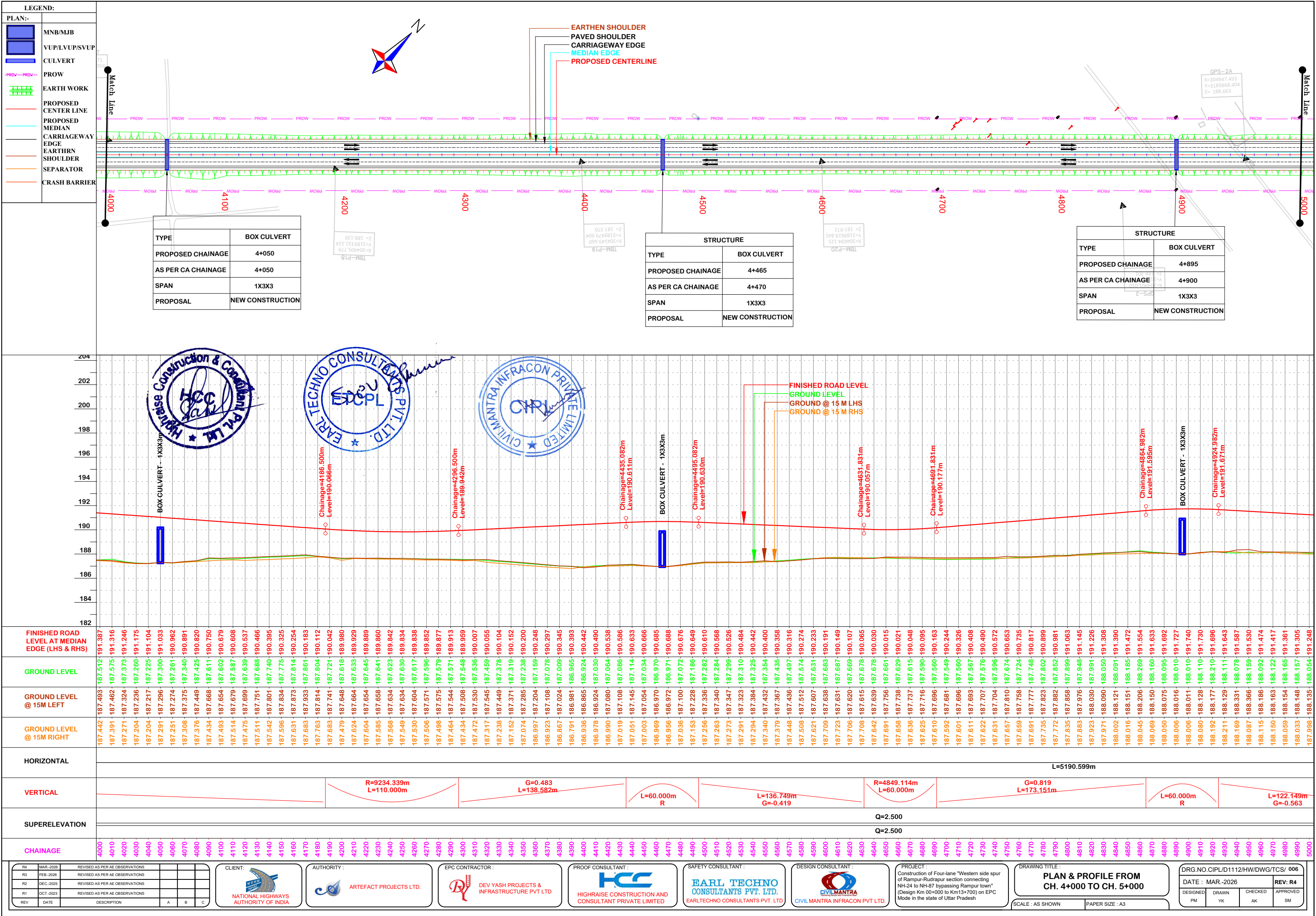
STRUCTURE TABLES:

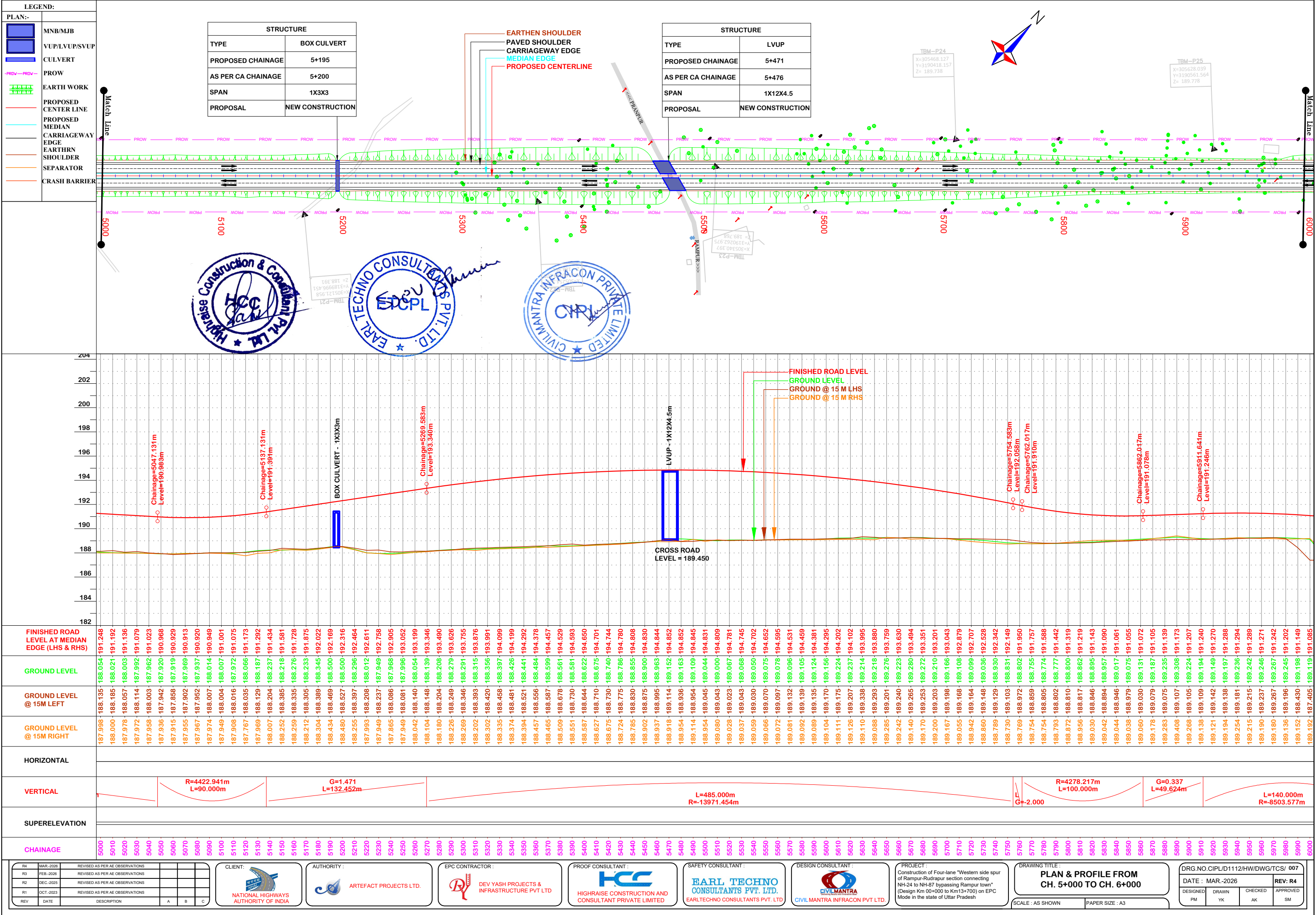
STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	3+232
AS PER CA CHAINAGE	3+160
SPAN	1X3X3
PROPOSAL	NEW CONSTRUCTION

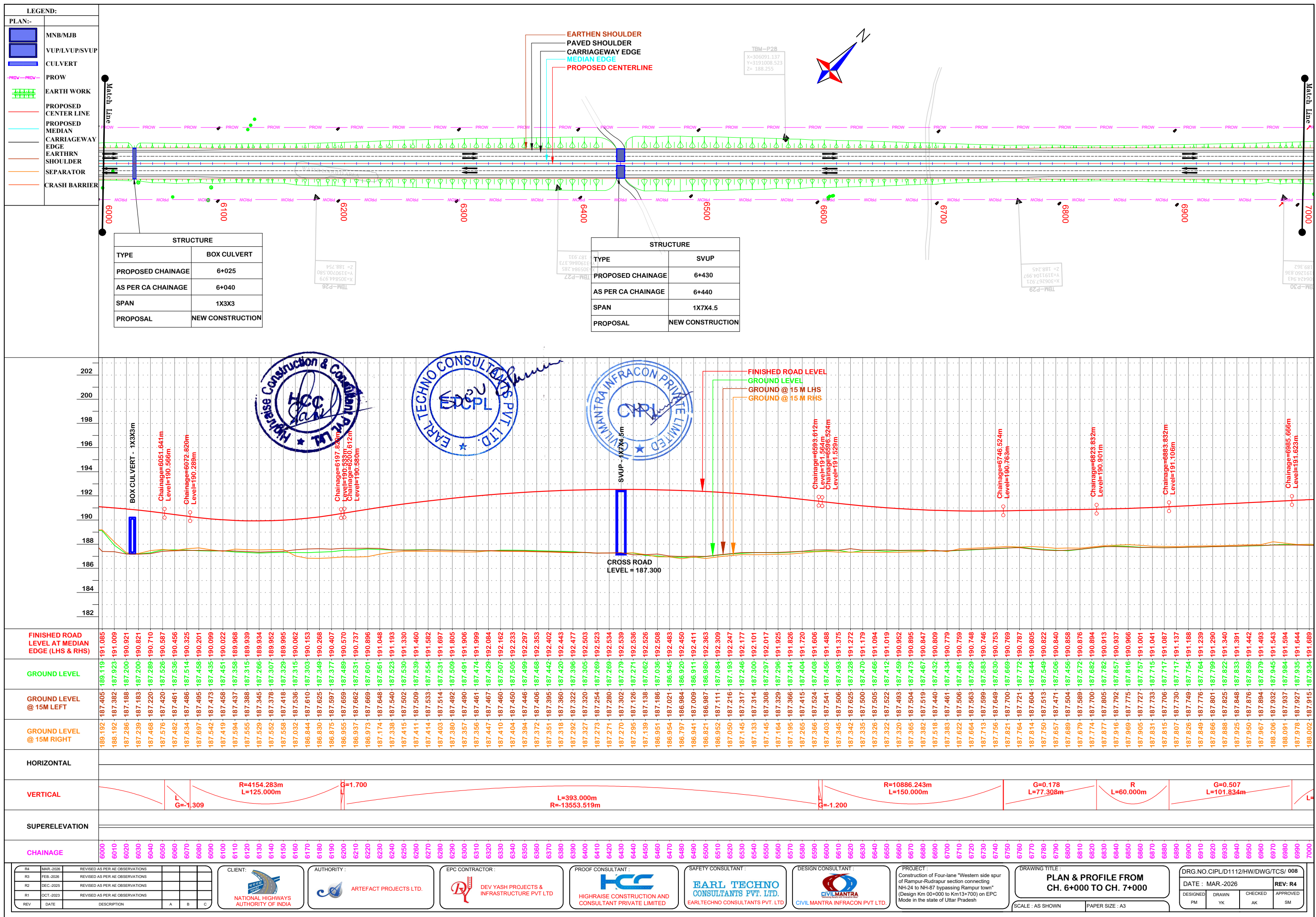
STRUCTURE	
TYPE	MJB
PROPOSED CHAINAGE	3+535
AS PER CA CHAINAGE	3+550
SPAN	10X33
PROPOSAL	NEW CONSTRUCTION

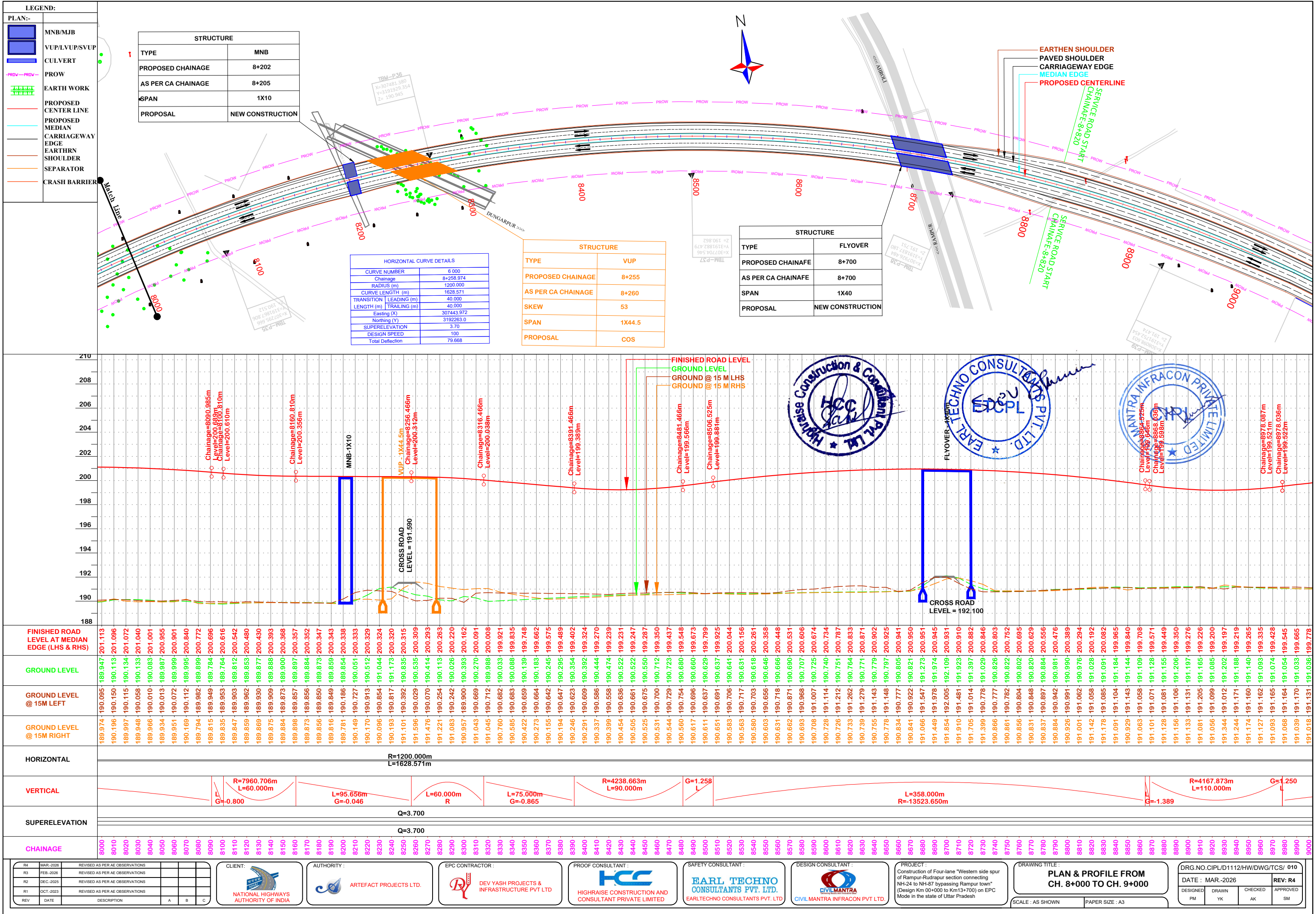
Profile View Data:

CHAINAGE	FINISHED ROAD LEVEL AT MEDIAN EDGE (LHS & RHS)	GROUND LEVEL	GROUND LEVEL @ 15M LEFT	GROUND LEVEL @ 15M RIGHT
3000	187.847	187.827	187.847	187.836
3010	187.864	187.840	187.864	187.854
3020	187.882	187.856	187.882	187.872
3030	187.899	187.873	187.899	187.889
3040	187.916	187.889	187.916	187.906
3050	187.933	187.906	187.933	187.923
3060	187.950	187.923	187.950	187.940
3070	187.967	187.940	187.967	187.957
3080	187.984	187.957	187.984	187.974
3090	187.999	187.973	187.999	187.989
3100	188.014	187.990	188.014	188.004
3110	188.029	188.007	188.029	188.021
3120	188.044	188.024	188.044	188.038
3130	188.059	188.041	188.059	188.053
3140	188.074	188.058	188.074	188.068
3150	188.089	188.075	188.089	188.083
3160	188.104	188.092	188.104	188.098
3170	188.119	188.109	188.119	188.115
3180	188.134	188.126	188.134	188.130
3190	188.149	188.143	188.149	188.145
3200	188.164	188.160	188.164	188.160
3210	188.179	188.177	188.179	188.175
3220	188.194	188.194	188.194	188.192
3230	188.209	188.211	188.209	188.207
3240	188.224	188.228	188.224	188.220
3250	188.239	188.243	188.239	188.235
3260	188.254	188.258	188.254	188.250
3270	188.269	188.272	188.269	188.265
3280	188.284	188.286	188.284	188.280
3290	188.299	188.299	188.299	188.293
3300	188.314	188.312	188.314	188.308
3310	188.329	188.320	188.329	188.325
3320	188.344	188.337	188.344	188.341
3330	188.359	188.354	188.359	188.356
3340	188.374	188.369	188.374	188.372
3350	188.389	188.384	188.389	188.386
3360	188.404	188.399	188.404	188.401
3370	188.419	188.416	188.419	188.413
3380	188.434	188.431	188.434	188.430
3390	188.449	188.448	188.449	188.446
3400	188.464	188.463	188.464	188.462
3410	188.479	188.478	188.479	188.477
3420	188.494	188.493	188.494	188.492
3430	188.509	188.502	188.509	188.505
3440	188.524	188.519	188.524	188.522
3450	188.539	188.536	188.539	188.538
3460	188.554	188.553	188.554	188.551
3470	188.569	188.568	188.569	188.566
3480	188.584	188.583	188.584	188.582
3490	188.599	188.598	188.599	188.597
3500	188.614	188.613	188.614	188.612
3510	188.629	188.628	188.629	188.627
3520	188.644	188.643	188.644	188.642
3530	188.659	188.658	188.659	188.657
3540	188.674	188.673	188.674	188.672
3550	188.689	188.688	188.689	188.687
3560	188.704	188.703	188.704	188.702
3570	188.719	188.718	188.719	188.717









PLAN:--

LEGEND:

- MNB/MJB
- VUP/LVUP/SVUP
- CULVERT
- PROW
- EARTH WORK
- PROPOSED CENTER LINE
- PROPOSED MEDIAN
- CARRIAGEWAY EDGE
- EARTHEN SHOULDER
- SEPARATOR
- CRASH BARRIER

STRUCTURE

TYPE	VUP
PROPOSED CHAINAFE	9+183
AS PER CA CHAINAFE	9+190
SPAN	1X40
PROPOSAL	NEW CONSTRUCTION

STRUCTURE

TYPE	SVUP
PROPOSED CHAINAGE	9+882
AS PER CA CHAINAGE	9+700
SPAN	1X7X4.5
PROPOSAL	COS

FINISHED ROAD LEVEL
GROUND LEVEL
GROUND @ 15 M LHS
GROUND @ 15 M RHS

VUP - 1X40m

CROSS ROAD LEVEL = 191.910

SVUP - 1X7X4.5m

HORIZONTAL

VERTICAL

SUPERELEVATION

CHAINAGE

DRG.NO.CIPLD/1112/HW/DWG/TCS/ 011

DATE : MAR.-2026

REV: R4

DESIGNED PM

DRAWN YK

CHECKED AK

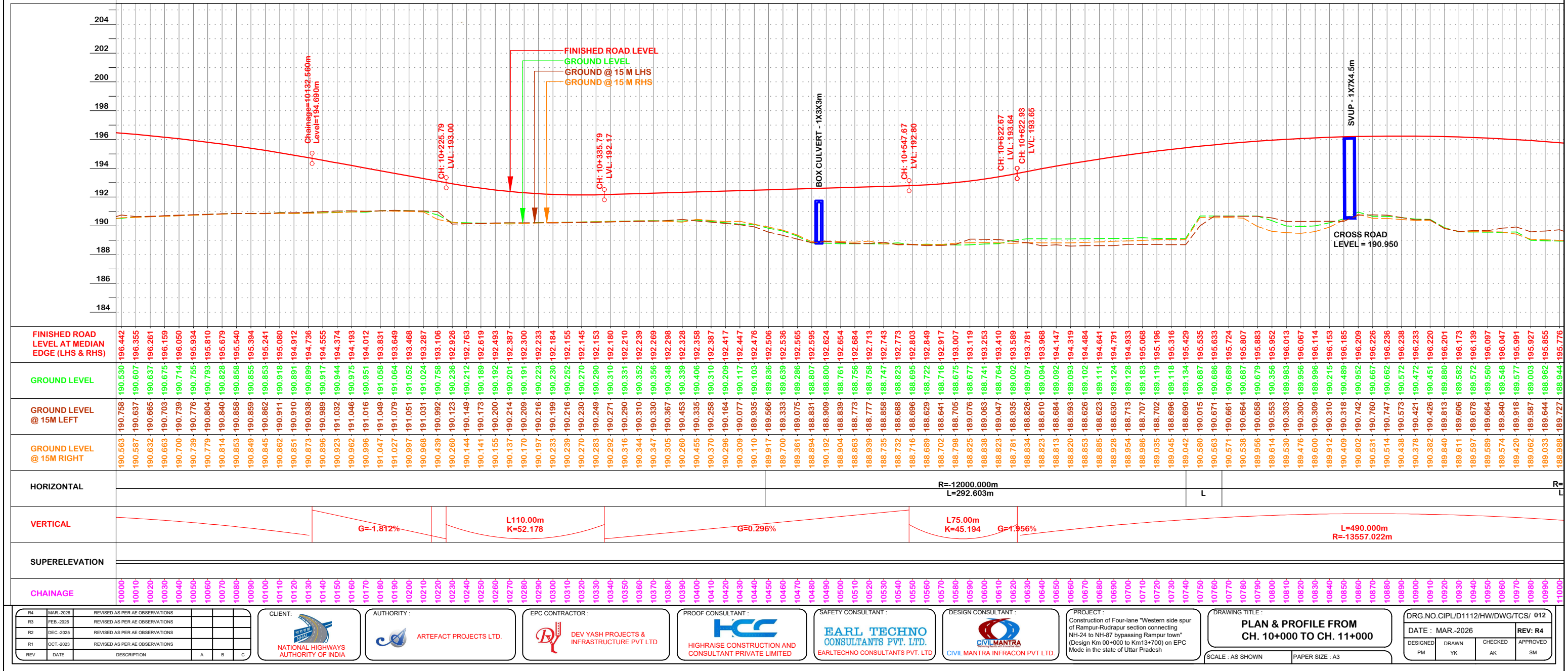
APPROVED SM

LEGEND:	
PLAN:-	
	MNB/MJB
	VUP/LVUP/SVUP
	CULVERT
	PROW
	EARTH WORK
	PROPOSED CENTER LINE
	PROPOSED MEDIAN
	CARRIAGEWAY EDGE
	EARTHEN SHOULDER
	SEPARATOR
	CRASH BARRIER

HORIZONTAL CURVE DETAILS	
CURVE NUMBER	7 000
Chainage	10+593.927
RADIUS (m)	-12000.000
CURVE LENGTH (m)	292.603
TRANSITION LEADING (m)	0.000
LENGTH (m) TRAILING (m)	0.000
Easting (X)	309475.499
Northing (Y)	3190826.4
SUPERELEVATION	-
DESIGN SPEED	100
Total Deflection	1.397

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	10+485
AS PER CA CHAINAGE	10+400
SPAN	1X3X3
PROPOSAL	NEW CONSTRUCTION

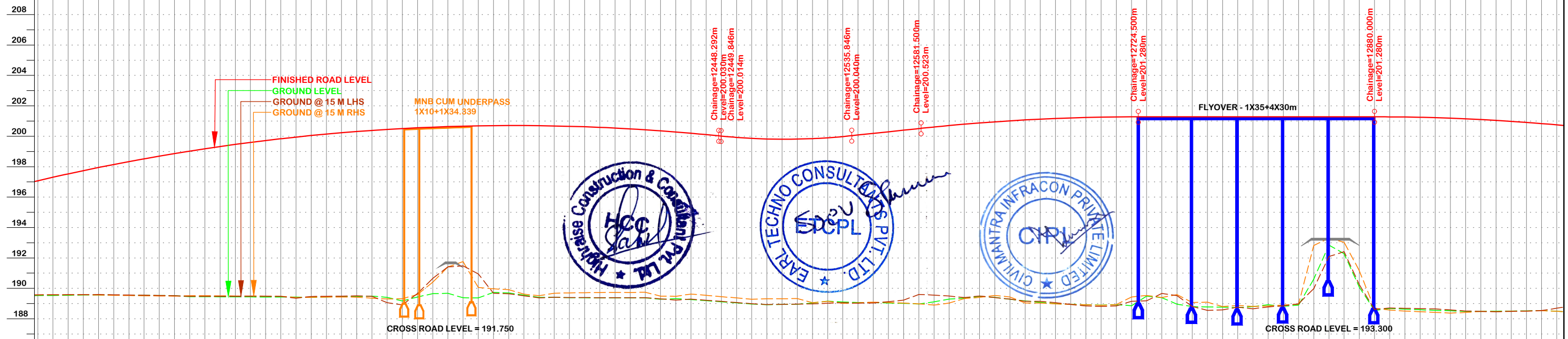
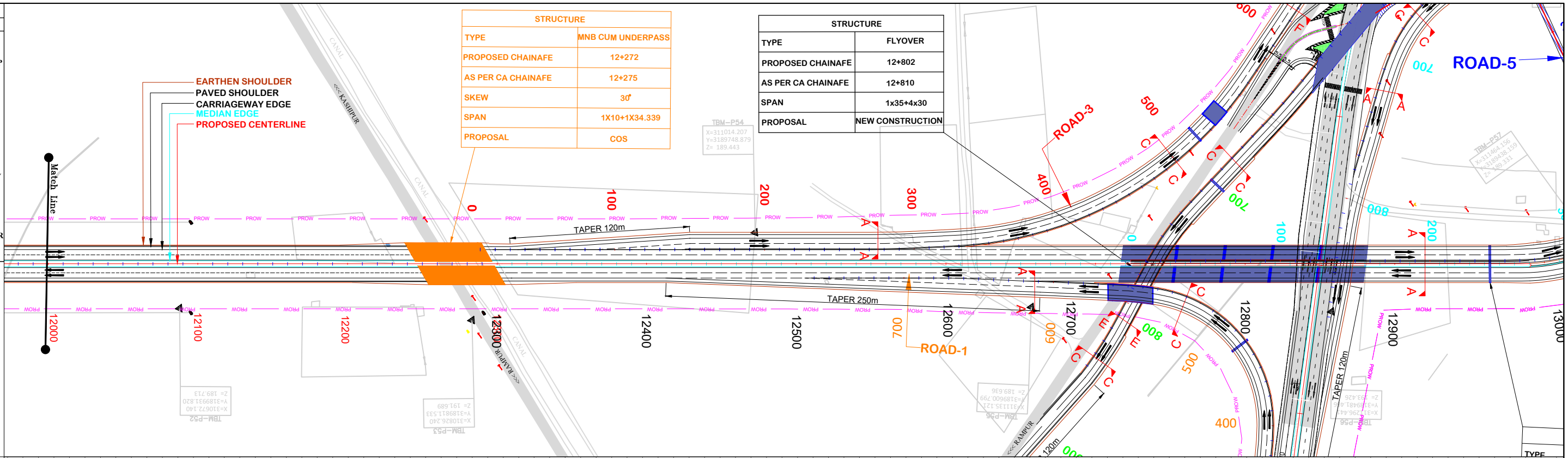
STRUCTURE	
TYPE	SVUP
PROPOSED CHAINAGE	10+854
AS PER CA CHAINAGE	10+860
SPAN	1X7X4.5
PROPOSAL	NEW CONSTRUCTION



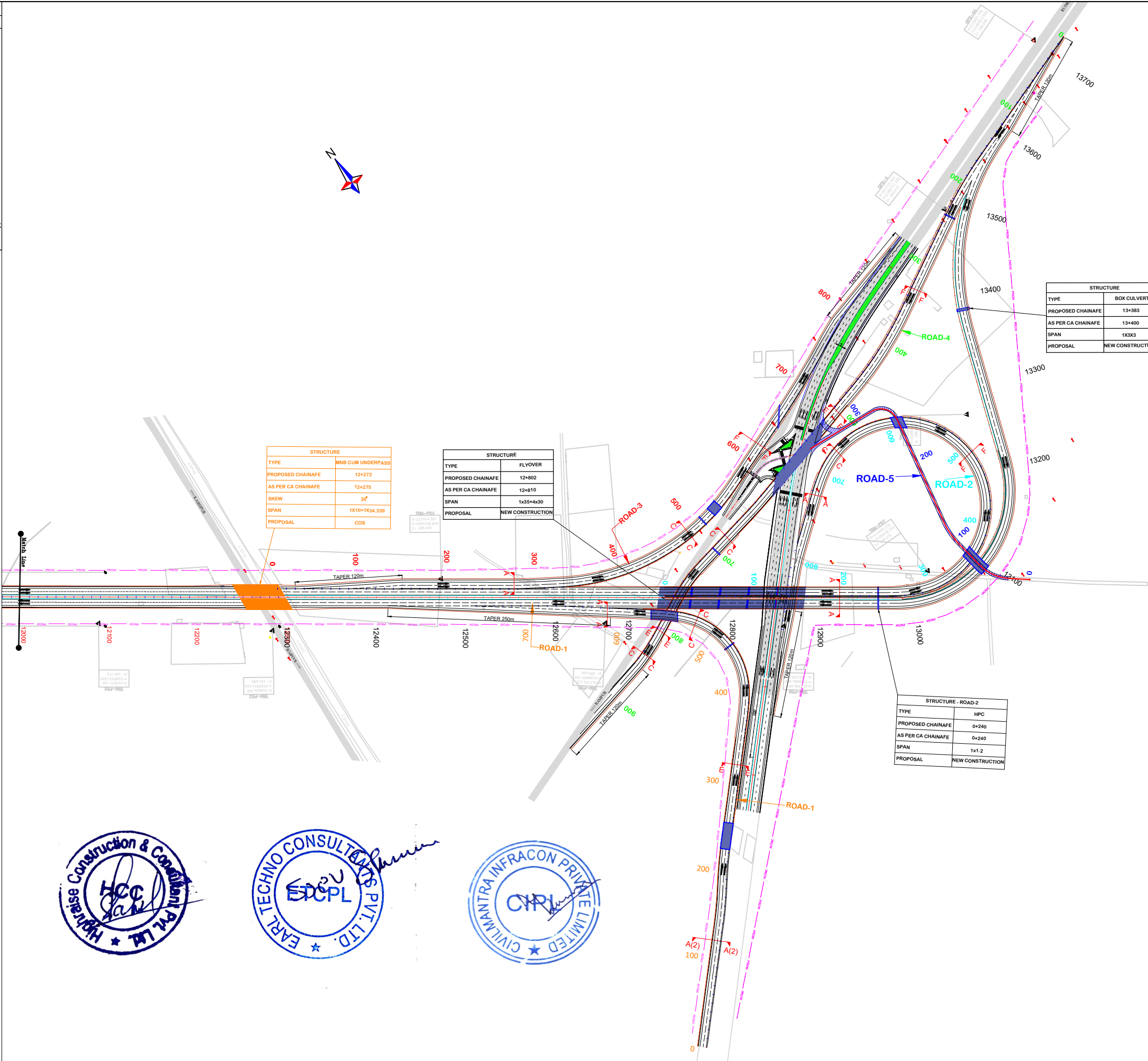
LEGEND:	
PLAN:--	
	MNB/MJB
	VUP/LVUP/SVUP
	CULVERT
	PROW
	EARTH WORK
	PROPOSED CENTER LINE
	PROPOSED MEDIAN
	CARRIAGEWAY EDGE
	EARTHEN SHOULDER
	SEPARATOR
	CRASH BARRIER

STRUCTURE	
TYPE	MNB CUM UNDERPASS
PROPOSED CHAINAGE	12+272
AS PER CA CHAINAGE	12+275
SKEW	30°
SPAN	1X10+1X34.339
PROPOSAL	COS

STRUCTURE	
TYPE	FLYOVER
PROPOSED CHAINAFE	12+802
AS PER CA CHAINAFE	12+810
SPAN	1x35+4x30
PROPOSAL	NEW CONSTRUCTION

[illegible]

LEGEND:	
PLAN:-	
	MNB/MJB
	VUP/LVUP/SVUP
	CULVERT
	PROW
	EARTH WORK
	PROPOSED CENTER LINE
	PROPOSED MEDIAN
	CARRIAGEWAY EDGE
	EARTHEN SHOULDER
	SEPARATOR
	CRASH BARRIER



STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	13+383
AS PER CA CHAINAGE	13+400
SPAN	1X3X3
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	MNB CUM UNDERPASS
PROPOSED CHAINAGE	12+272
AS PER CA CHAINAGE	12+275
SKEW	3d
SPAN	1X10+1X34.339
PROPOSAL	COS

STRUCTURE	
TYPE	FLYOVER
PROPOSED CHAINAGE	12+802
AS PER CA CHAINAGE	12+810
SPAN	1X35+4X30
PROPOSAL	NEW CONSTRUCTION

STRUCTURE - ROAD-2	
TYPE	HPC
PROPOSED CHAINAGE	0+240
AS PER CA CHAINAGE	0+240
SPAN	1x1.2
PROPOSAL	NEW CONSTRUCTION



R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			
REV	DATE	DESCRIPTION	A	B	C

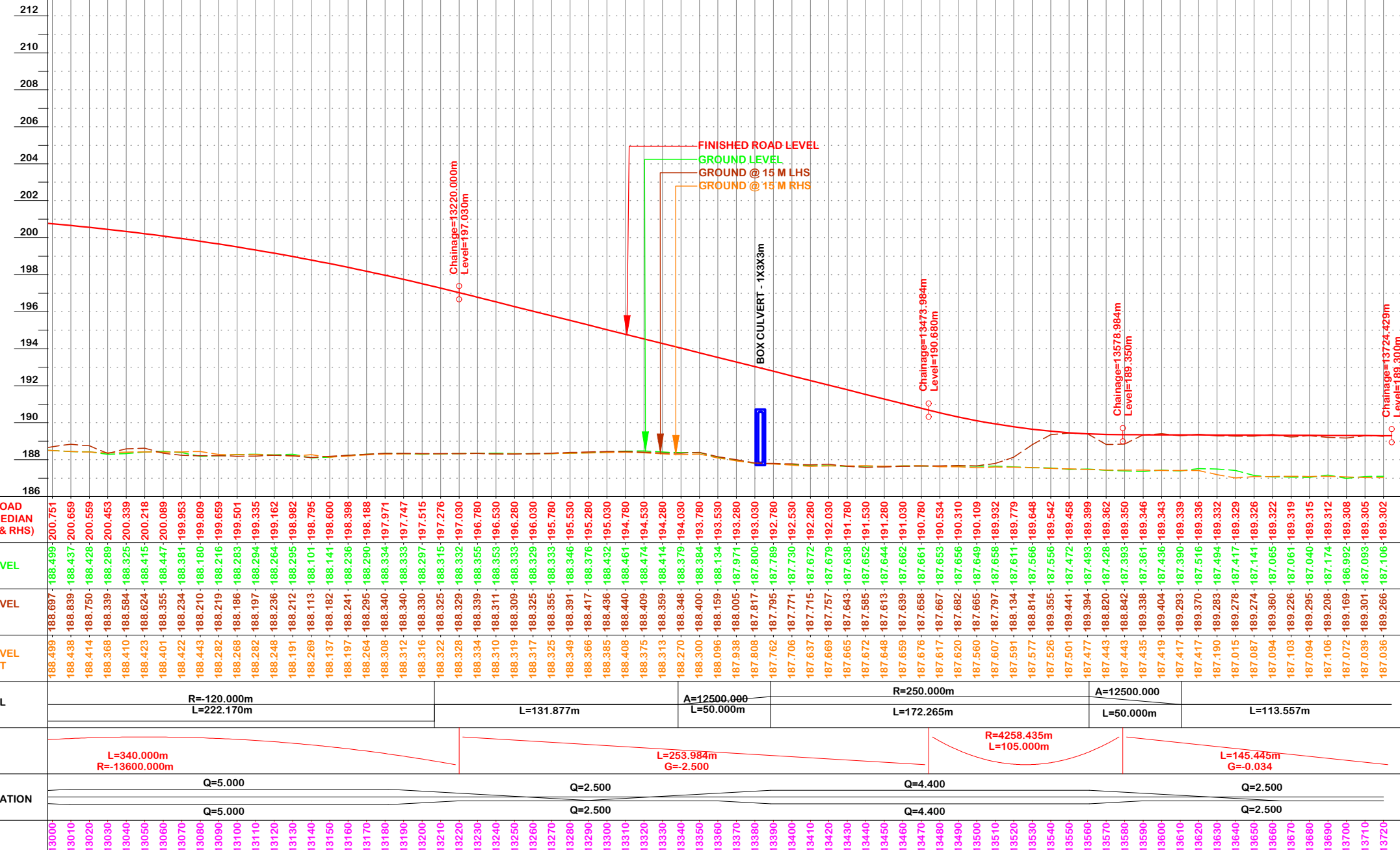


PROJECT : Construction of Four-lane "Western side spur of Rampur-Rudrapur section connecting NH-24 to NH-87 bypassing Rampur town" (Design Km 00+000 to Km13+700) on EPC Mode in the state of Uttar Pradesh

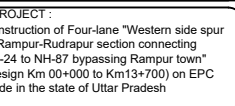
DRAWING TITLE :
**PLAN FROM
CH. 13+000 TO CH. 13+700**

SCALE : AS SHOWN PAPER SIZE : A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/ 015				
DATE : MAR-2026			REV: R4	
DESIGNED	DRAWN	CHECKED	APPROVED	
PM	YK	AK	SM	



R4	MAR-2026	REVISED AS PER AE OBSERVATIONS			
R3	FEB-2026	REVISED AS PER AE OBSERVATIONS			
R2	DEC-2025	REVISED AS PER AE OBSERVATIONS			
R1	OCT-2023	REVISED AS PER AE OBSERVATIONS			
REV	DATE	DESCRIPTION	A	B	C



DRAWING TITLE:	
PROFILE FROM CH. 13+000 TO CH. 13+700	
SCALE: AS SHOWN	PAPER SIZE: A3

DRG.NO.CIPL/D1112/HW/DWG/TCS/ 016	
DATE: MAR-2026	REV: R4
DESIGNED: PM	DRAWN: YK
CHECKED: AK	APPROVED: SM