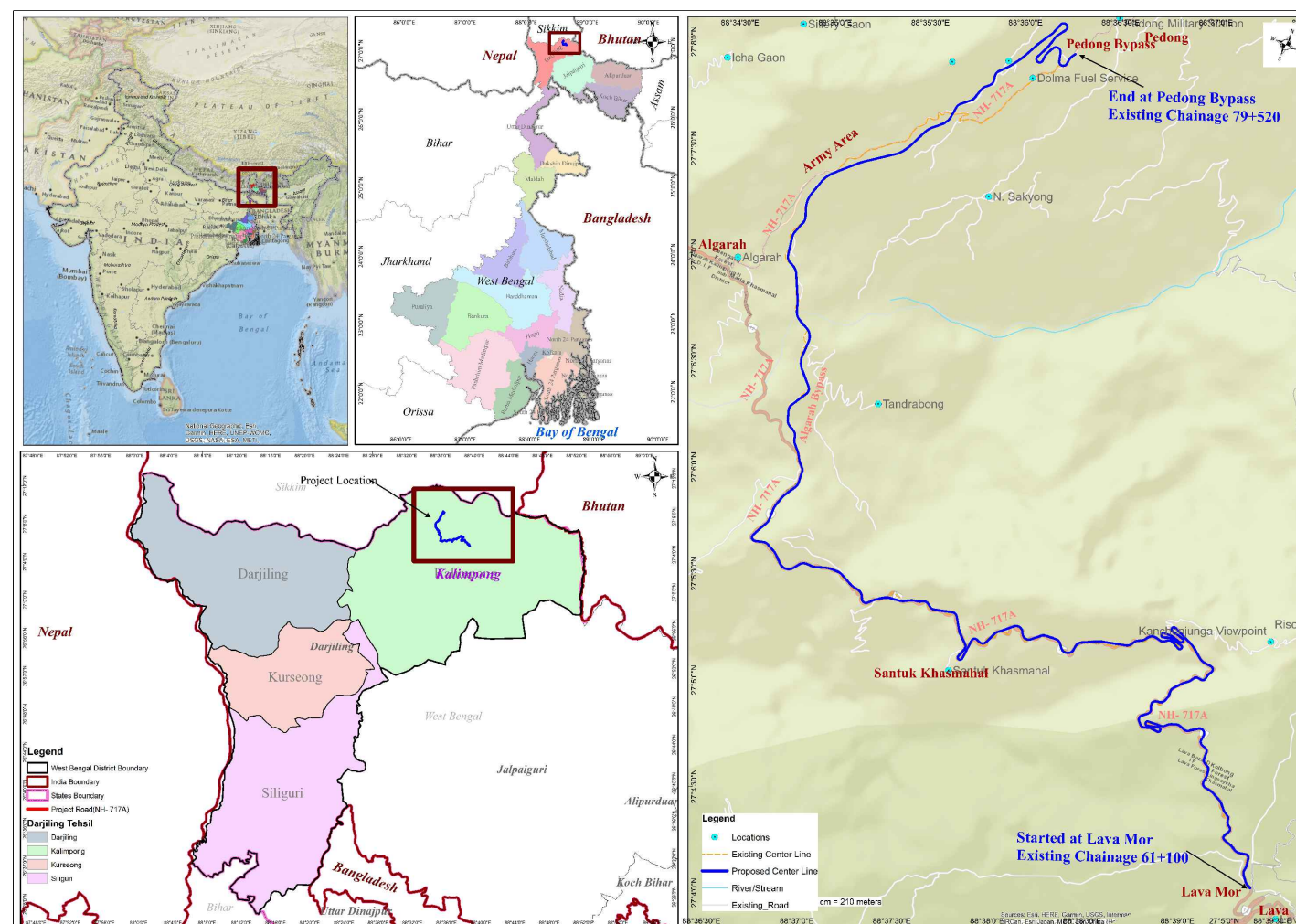


NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (NHIDCL)

(A fully owned company under Ministry of Road Transport & Highways, Govt of India)

Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".



CONSULTANT:



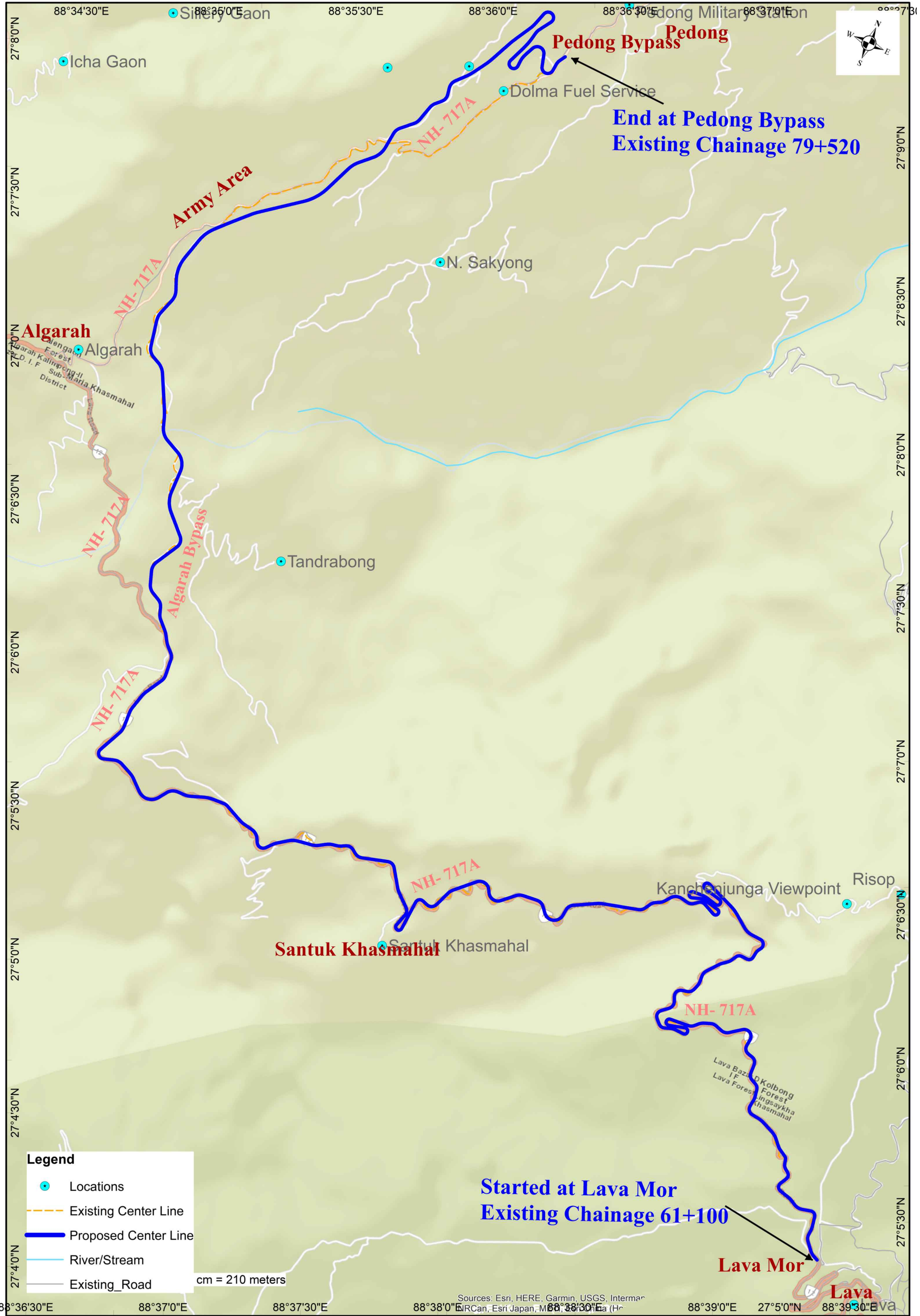
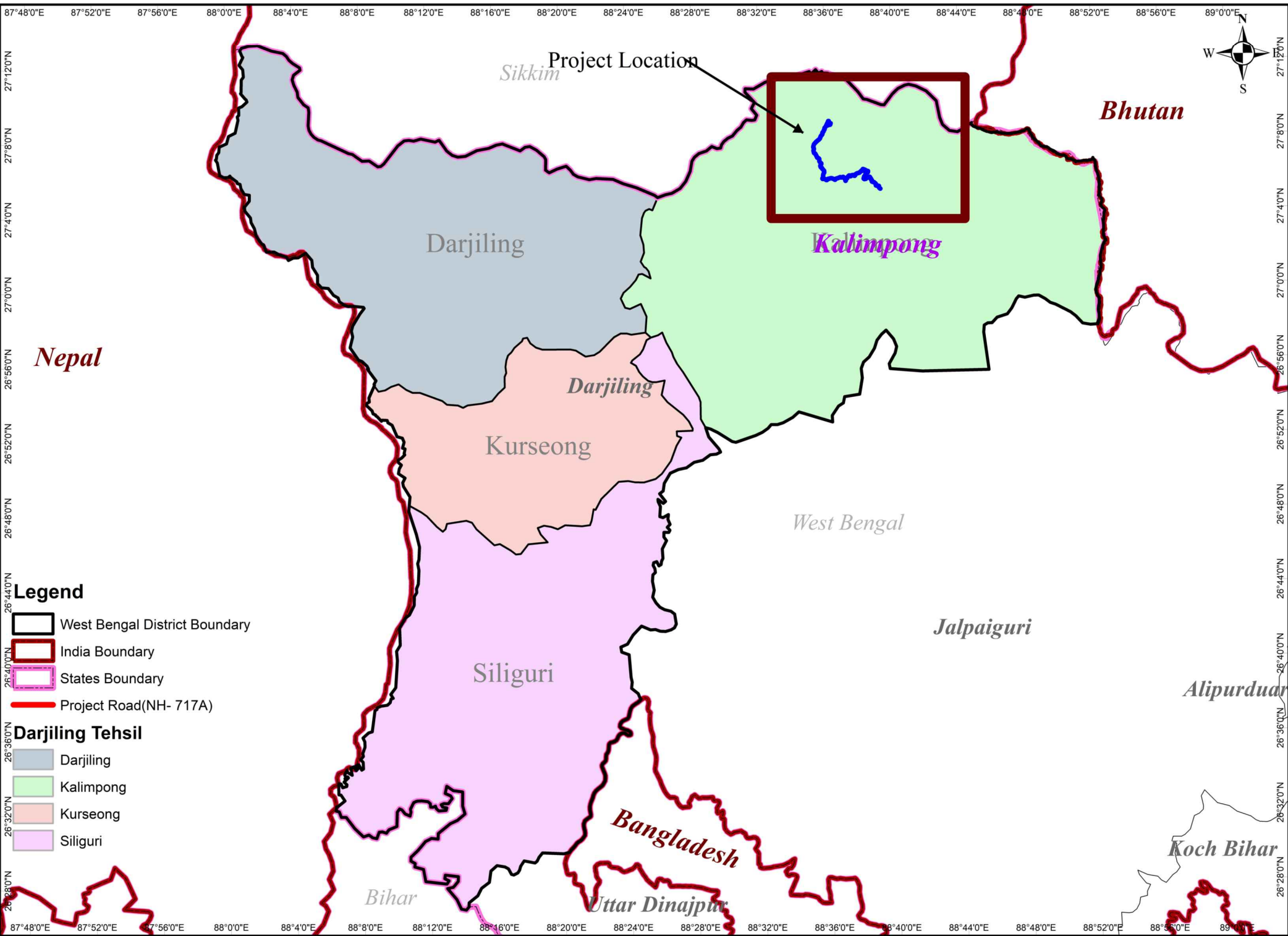
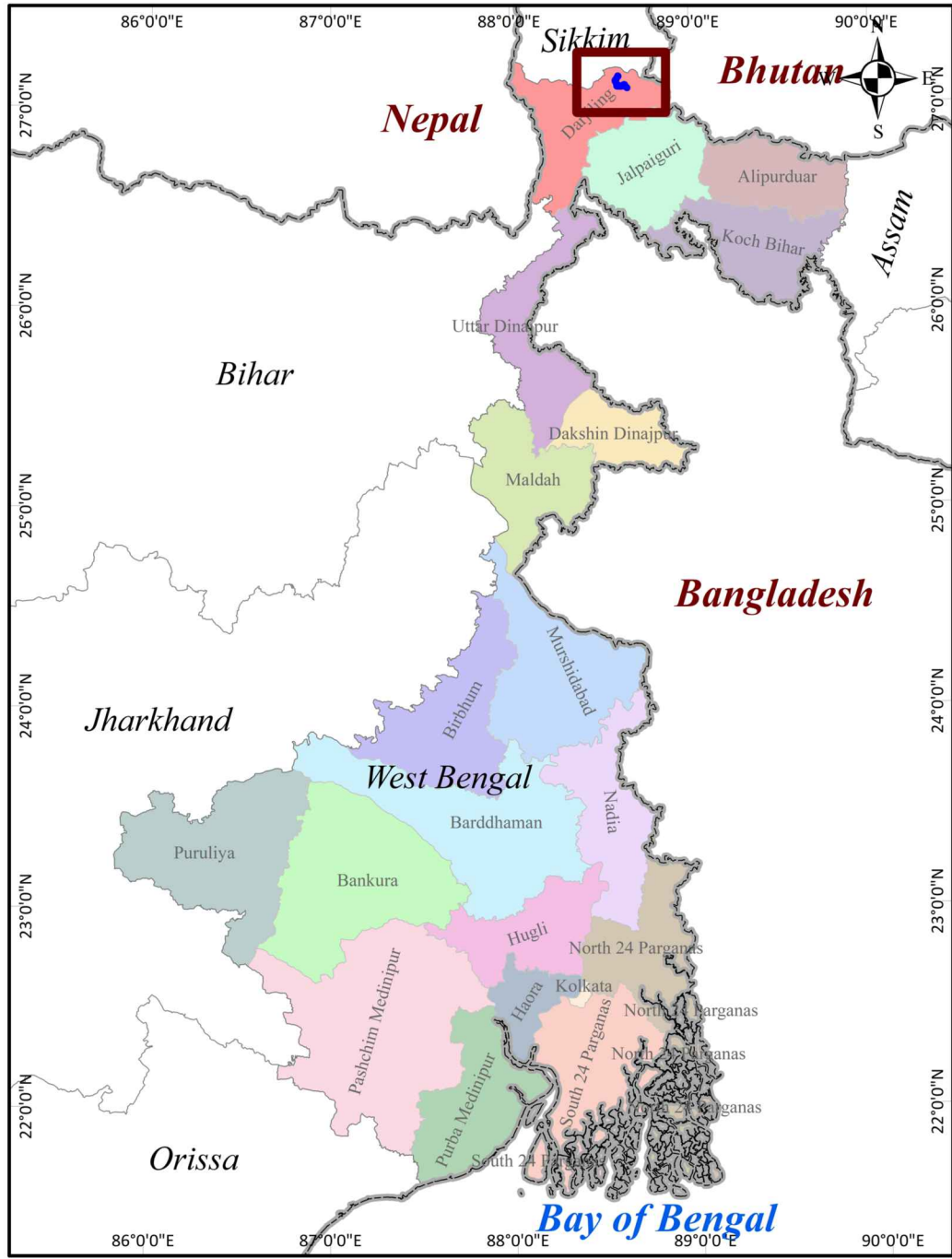
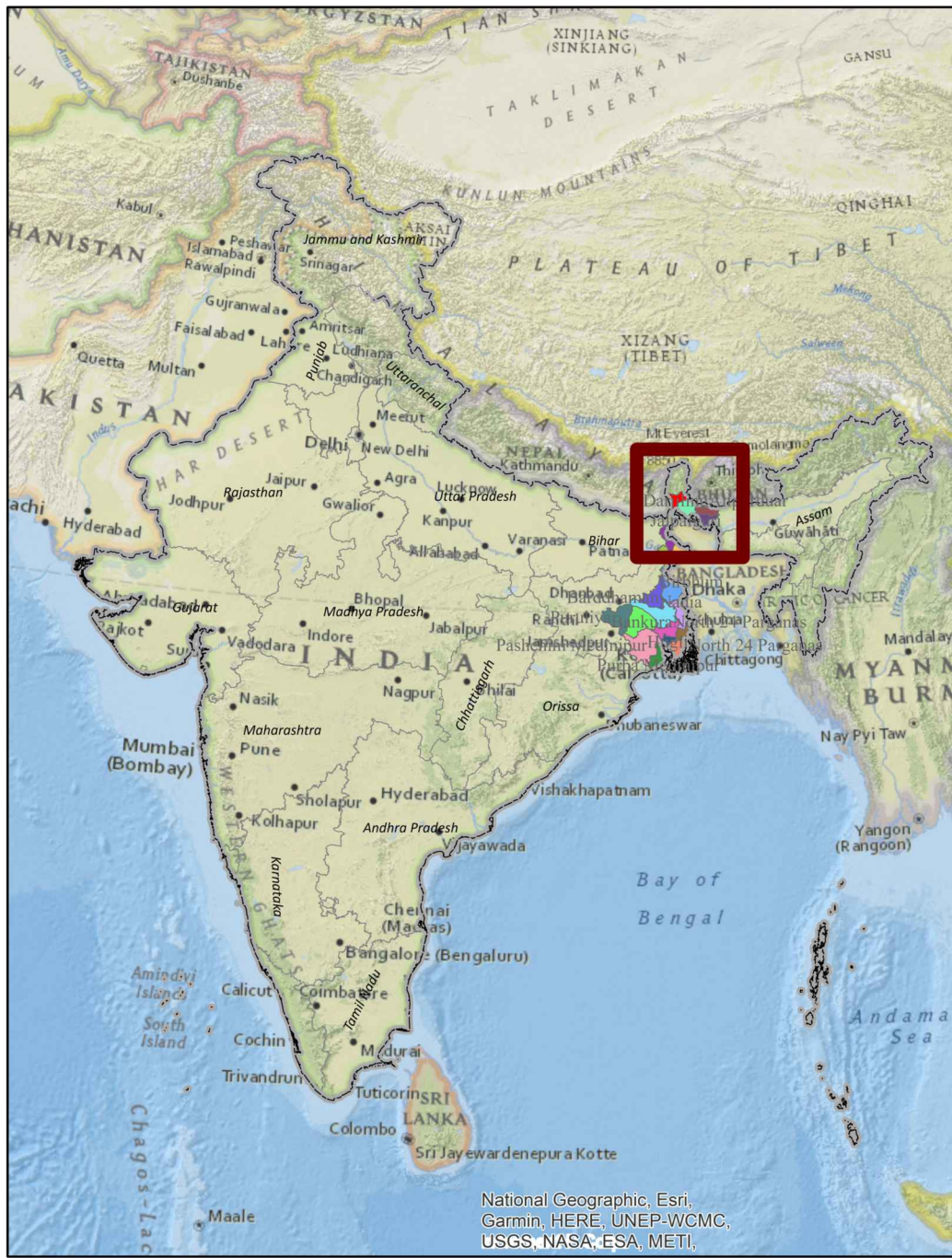
Xplorer Consultancy Services Pvt. Ltd.
in joint venture
Dsd Infratech Management Pvt. Ltd,
in Association With
Maverick Mernok & Construction
511, Tower B, Ithum, Plot-A40
Sector-62, Noida
Uttar Pradesh – 201301

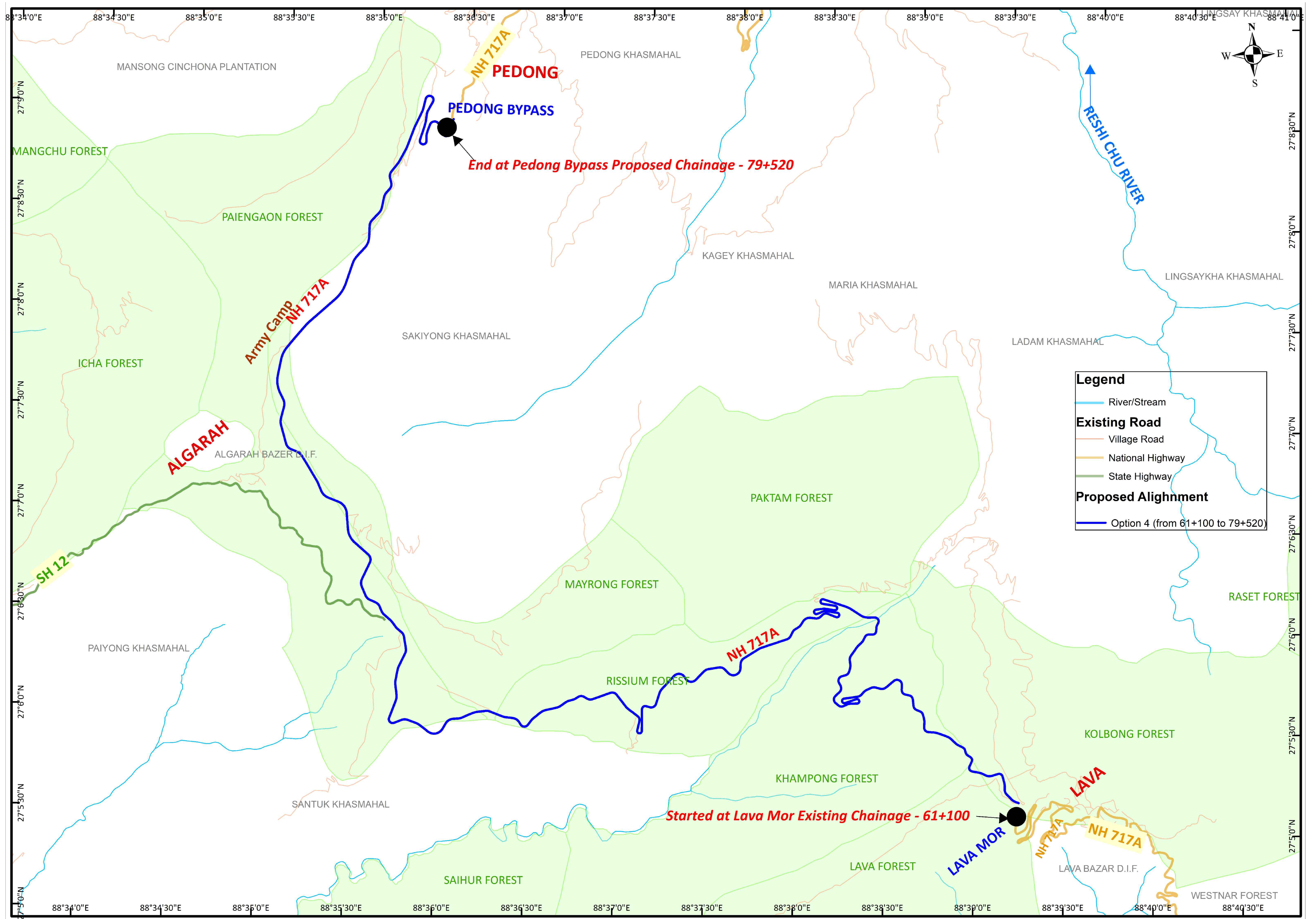
**Draft Detailed Project
Report Volume - IX**
Dec-2024

LAVAMORE TO PEDONG BYPASS

CONTENT SHEET

SL.NO	DRAWING TITLE	DRAWING NO.	NO. OF SHEET
1.	PROJECT MAP	—	01
2.	KEY PLAN	—	01
3.	TBM/DGPS POINTS	XPL/DSD/WB /KM39.2/TBM/DGPS	04
4.	PROPOSED CENTER LINE CO—ORDINATE	XPL/DSD/WB /KM39.2/CO	10
5.	ROW LIST	XPL/DSD/WB /KM39.2/ROW	09
6.	HORIZONTAL ALIGNMENT REPORT	XPL/DSD/WB /KM39.2/HAR	04
7.	VERTICAL ALIGNMENT REPORT	XPL/DSD/WB /KM39.2/VAR	03
8.	TYPICAL CROSS SECTIONS	XPL/DSD/WB /KM39.2/TCS	21
9.	PLAN AND PROFILE	XPL/DSD/WB /KM39.2/P&P	38
a.	JUNCTION DRAWING	XPL/DSD/WB /KM39.2/JCN	16
10.	GAD		
a.	CULVERT	XPL/DSD/WB /KM39.2/BC	01
b.	VIADUCT	XPL/DSD/WB /KM39.2/VIADUCT	07
c.	RETAINING WALL & BREAST WALL	XPL/DSD/WB /KM39.2/RW&BW	06
12.	MISCELLANEOUS DRAWINGS		
a.	ROAD SIGNS—I TO III	XPL/DSD/WB /KM39.2/RS	03
b.	TYPICAL DETAILS OF OVERHEAD GANTRY	XPL/DSD/WB /KM39.2/OG	01
c.	PARAPET, RAILING AND EDGESTONE	XPL/DSD/WB /KM39.2/RL	01
d.	TYPICALLAYOUT FOR BUS SHELTER	XPL/DSD/WB /KM39.2/BS	01
e.	BUS BAY & TRUCK LAYBAY	XPL/DSD/WB /KM39.2/BS	02
f.	RAIN WATER HARVESTING	XPL/DSD/WB /KM39.2/RW	01
g.	DETAILS OF CURVE & SUPER ELEVATION	XPL/DSD/WB /KM39.2/CU	01
h.	TYPICAL CANTILEVER TYPE OVERHEAD SIGN	XPL/DSD/WB /KM39.2/OS	01
i.	TYPICAL DRAWING OF KM STONE	XPL/DSD/WB /KM39.2/KM	02





KEY PLAN

TBM & DGPS LIST

TBM Details Of Lava More (61+100) To Pedong Bypass (79+300)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
1	A-2	61+100	LHS	664063.305	2997172.115	2171.709
2	A-1	61+155	LHS	664004.008	2997203.953	2174.348
3	GPS-61	61+255	LHS	663933.841	2997275.968	2180.183
4	TS-1	61+340	LHS	663936.372	2997357.369	2183.839
5	TS-2	61+450	RHS	663904.795	2997457.416	2190.875
6	TS-3	61+540	LHS	663815.637	2997437.587	2195.729
7	TS-4	61+650	LHS	663713.743	2997469.869	2202.300
8	P-2	61+690	LHS	663668.234	2997479.298	2205.009
9	TS-5	61+750	LHS	663617.893	2997505.773	2206.674
10	M-1	61+820	LHS	663642.969	2997570.758	2205.677
11	TS-6	61+850	LHS	663653.864	2997597.54	2204.888
12	BM-1	61+865	LHS	663650.636	2997610.394	2204.575
13	P-3	61+890	LHS	663627.617	2997619.639	2202.597
14	TS-7	61+940	LHS	663590.95	2997655.547	2198.603
15	TS-8	62+130	LHS	663482.495	2997754.045	2189.810
16	P-4	61+170	LHS	663458.042	2997784.808	2189.361
17	TS-9	62+230	RHS	663418.3	2997824.182	2186.756
18	TS-10	62+360	LHS	663298.783	2997858.011	2181.874
19	P-5	62+410	LHS	663246.441	2997866.865	2181.058
20	TS-11	62+440	LHS	663219.752	2997883.638	2179.574
21	TS-12	62+530	LHS	663223.558	2997962.718	2176.145
22	P-6	62+620	LHS	663206.713	2998046.28	2172.138
23	TS-13	62+690	LHS	663147.063	2998074.991	2168.032
24	TS-14	62+815	LHS	663119.255	2998197.22	2162.569
25	P-7	62+820	LHS	663113.945	2998198.671	2162.945
26	TS-15	62+900	LHS	663042.329	2998225.091	2157.902
27	TS-16	62+970	LHS	663009.947	2998293.332	2154.922
28	TS-17	63+090	LHS	662971.533	2998343.178	2148.648
29	TS-18	63+220	LHS	662869.81	2998274.432	2142.229
30	P-9	63+250	LHS	662838.634	2998274.171	2141.772
31	TS-19	63+330	RHS	662756.444	2998295.898	2137.280
32	P-10	63+450	LHS	662665.575	2998227.635	2132.431
33	BM-2	63+410	RHS	662685.314	2998267.816	2133.915
34	TS-20	63+470	LHS	662649.71	2998218.457	2131.431
35	TS-21	63+520	LHS	662596.89	2998219.7	2130.241

TBM Details Of Lava More (61+100) To Pedong Bypass (79+300)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
36	P-11	63+650	RHS	662480.116	2998173.365	2125.390
37	TS-22	63+655	RHS	662482.924	2998167.413	2124.499
38	TS-23	63+840	LHS	662626.275	2998156.251	2118.602
39	P-12	63+850	LHS	662610.165	2998152.624	2118.564
40	TS-24	63+920	LHS	662546.408	2998154.517	2115.501
41	TS-25	64+010	LHS	662456.04	2998129.964	2110.549
42	P-13	64+020	LHS	662448.562	2998132.392	2111.166
43	TS-26	64+105	LHS	662398.314	2998204.784	2105.705
44	P-14	64+150	LHS	662428.844	2998238.945	2103.352
45	TS-27	64+190	LHS	662452.414	2998272.743	2100.328
46	P-15	64+350	LHS	662459.685	2998397.89	2093.607
47	TS-28	64+365	LHS	662466.646	2998408.396	2092.853
48	TS-29	64+440	RHS	662537.157	2998406.964	2088.593
49	TS-30	64+620	LHS	662573.51	2998581.397	2075.005
50	TS-31	64+740	RHS	662638.495	2998678.756	2069.001
51	TS-32	64+820	LHS	662692.51	2998728.496	2065.261
52	TS-33	64+890	LHS	662729.223	2998785.201	2061.753
53	P-19	65+130	LHS	662833.728	2998925.237	2047.210
54	TS-34	65+210	LHS	662757.01	2998930.392	2046.041
55	TS-35	65+400	LHS	662580.973	2999004.233	2050.504
56	TS-36	65+450	LHS	662545.223	2999038.762	2050.467
57	P-21	65+530	LHS	662471.154	2999067.969	2046.618
58	TS-37	65+720	RHS	662320.815	2999085.237	2039.489
59	TS-38	65+810	RHS	662415.992	2999058.137	2032.397
60	P-22	65+900	LHS	662460.871	2999021.687	2028.001
61	TS-39	65+960	RHS	662404.818	2999037.584	2022.027
62	TS-40	66+020	LHS	662341.35	2999033.82	2019.109
63	BM-5	66+065	RHS	662298.516	2999034.371	2016.641
64	P-23	66+200	RHS	662331.603	2999005.993	2011.899
65	TS-41	66+215	RHS	662346.152	2999012.529	2011.278
66	TS-42	66+280	RHS	662411.136	2999002.623	2010.640
67	P-24	66+465	LHS	662390.324	2998982.665	2004.054
68	TS-43	66+465	LHS	662392.638	2998984.018	2003.483
69	TS-44	66+610	LHS	662263.319	2998947.732	1996.045
70	P-25	66+665	LHS	662209.964	2998947.097	1993.528

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: TBM and DGPS List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO:XPL/DSD/WB/KM18.6/TBM/DGPS/01	
						SCALE : NTS	Sheet : 01 OF 04	DATE: Dec-2024

TBM Details Of Lava More (61+100) To Pedong Bypass (79+300)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
71	TS-45	66+765	LHS	662152.596	2998900.67	1988.511
72	TS-46	66+850	LHS	662081.879	2998845.905	1985.172
73	P-26	66+865	LHS	662067.739	2998843.748	1985.330
74	TS-47	66+970	RHS	662022.131	2998776.909	1980.581
75	TS-48	67+045	LHS	661952.335	2998746.438	1978.733
76	P-27	67+070	LHS	661932.349	2998734.01	1978.958
77	TS-50	67+230	LHS	661785.306	2998705.333	1972.149
78	P-28	67+300	RHS	661727.682	2998684.043	1968.825
79	TS-51	67+360	LHS	661674.073	2998650.624	1964.766
80	TS-52	67+560	RHS	661556.139	2998509.09	1957.535
81	P-29	67+605	LHS	661553.186	2998461.865	1957.167
82	BM-7	67+670	RHS	661488.249	2998480.381	1953.935
83	TS-53	67+690	LHS	661464.911	2998465.834	1952.812
84	TS-54	67+805	LHS	661383.082	2998524.654	1949.872
85	TS-55	67+915	LHS	661272.787	2998515.51	1947.581
86	P-30	67+950	LHS	661242.618	2998509.606	1946.909
87	TS-56	68+040	RHS	661182.249	2998450.695	1941.323
88	TS-57	68+140	RHS	661106.986	2998400.303	1938.115
89	TS-58	68+185	LHS	661062.266	2998413.745	1936.954
90	P-31	68+250	LHS	661047.035	2998471.214	1934.301
91	P-32	68+390	LHS	660928.045	2998455.905	1928.608
92	TS-59	68+460	LHS	660940.624	2998395.284	1924.744
93	TS-60	68+480	LHS	660935.947	2998374.651	1923.543
94	TS-61	68+560	RHS	660853.201	2998380.819	1919.921
95	P-33	68+590	LHS	660831.888	2998362.737	1919.110
96	TS-62	68+660	RHS	660826.684	2998301.668	1915.326
97	BM-8	68+680	RHS	660797.004	2998295.209	1914.475
98	TS-63	68+720	LHS	660780.671	2998267.634	1913.477
99	P-34	68+785	LHS	660785.939	2998207.257	1911.161
100	TS-64	68+810	LHS	660774.985	2998187.094	1909.392
101	TS-65	68+875	LHS	660707.792	2998176.582	1906.072
102	P-35	68+985	LHS	660644.201	2998156.336	1903.441
103	TS-66	68+995	RHS	660635.565	2998150.302	1902.184
104	BM-9	69+065	RHS	660629.026	2998079.723	1900.129
105	TS-67	69+210	LHS	660593.598	2997968.078	1897.241

TBM Details Of Lava More (61+100) To Pedong Bypass (79+300)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
106	P-36	69+260	LHS	660596.345	2998016.422	1896.371
107	TS-68	69+350	RHS	660619.817	2998103.293	1891.936
108	TS-69	69+470	LHS	660515.224	2998178.027	1887.225
109	P-37	69+520	LHS	660484.167	2998209.707	1884.684
110	TS-70	69+630	LHS	660419.229	2998293.309	1880.337
111	P-38	69+720	LHS	660361.715	2998322.064	1878.673
112	TS-71	69+800	LHS	660283.481	2998308.926	1875.525
113	TS-72	69+930	RHS	660158.675	2998275.955	1870.468
114	BM-10	70+020	LHS	660092.715	2998320.377	1869.235
115	TS-73	70+050	LHS	660072.222	2998308.776	1867.223
116	TS-74	70+100	LHS	660029.88	2998276.956	1864.556
117	P-40	70+160	LHS	659974.275	2998279.645	1862.580
118	TS-75	70+185	LHS	659952.572	2998267.955	1861.762
119	TS-76	70+260	LHS	659891.055	2998226.367	1858.231
120	P-41	70+295	LHS	659854.214	2998239.189	1857.385
121	TS-77	70+380	LHS	659781.68	2998268.761	1854.615
122	TS-78	70+500	LHS	659713.134	2998179.967	1849.604
123	P-42	70+505	LHS	659709.19	2998176.5	1849.925
124	TS-80	70+700	LHS	659563.246	2998053.014	1841.732
125	TS-81	70+750	LHS	659516.454	2998077.897	1839.114
126	P-43	70+790	RHS	659514.375	2998118.122	1838.425
127	TS-82	70+840	LHS	659460.962	2998119.546	1833.451
128	P-44	70+920	LHS	659396.135	2998134.39	1827.400
129	TS-83	70+970	LHS	659359.996	2998161.827	1824.671
130	TS-84	71+065	LHS	659267.257	2998185.326	1819.577
131	P-45	71+120	LHS	659222.774	2998215.42	1817.086
132	P-46	71+260	LHS	659090.122	2998195.47	1810.759
133	TS-85	71+80	LHS	659072.217	2998190.444	1808.898
134	TS-86	71+340	LHS	659008.998	2998183.602	1806.080
135	TS-87	71+410	LHS	658947.612	2998159.669	1803.414
136	P-47	71+435	LHS	658924.135	2998161.687	1803.097
137	TS-88	71+480	RHS	658876.258	2998160.711	1800.270
138	BM-12	71+500	LHS	658863.67	2998143.745	1799.758
139	P-48	71+635	LHS	658777.799	2998039.163	1794.321
140	TS-89	71+645	LHS	658770.344	2998037.593	1794.169

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 <th data-cs="2" data-kind="parent" data-rs="5"> DESIGN CONSULTANT: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 <th data-cs="2" data-kind="parent" data-rs="5"> PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”. </th></th>	DESIGN CONSULTANT: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 <th data-cs="2" data-kind="parent" data-rs="5"> PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”. </th>	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.
-------	------	-------------	--	--	--

TBM Details Of Lava More (61+100) To Pedong Bypass (79+300)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
211	P-69	77+565	LHS	658198.966	3002601.405	1671.390
212	TS-142	77+600	LHS	658233.622	3002593.954	1666.402
213	TS-143	77+650	LHS	658253.361	3002633.61	1661.942
214	P-70	77+680	RHS	658285.427	3002631.497	1659.222
215	TS-144	77+710	RHS	658315.413	3002639.079	1654.621
216	BM-78/2	77+780	RHS	658380.904	3002673.555	1647.759
217	TS-145	77+855	LHS	658445.96	3002711.729	1640.727
218	TS-146	77+880	LHS	658445.315	3002687.644	1639.189
219	TS-147	77+985	RHS	658413.048	3002612.305	1629.929
220	P-71	78+050	LHS	658461.269	3002653.724	1623.619
221	TS-148	78+080	LHS	658490.842	3002667.48	1620.253
222	TS-149	78+140	LHS	658550.339	3002679.576	1614.427
223	TS-150	78+185	RHS	658594.365	3002670.767	1609.605
224	P-72	78+260	LHS	658629.136	3002739.668	1601.282
225	TS-151	78+330	RHS	658677.651	3002795.124	1593.683
226	TS-152	78+400	RHS	658700.686	3002854.358	1587.924
227	TS-153	78+620	LHS	658768.869	3003064.023	1570.437
228	TS-154	78+670	RHS	658795.291	3003105.588	1567.092
229	P-73	78+690	LHS	658803.251	3003125.381	1565.904
230	TS-155	78+830	LHS	658867.67	3003252.617	1556.333
231	TS-156	78+890	RHS	658882.333	3003304.683	1554.510
232	TS-157	78+950	LHS	658911.808	3003359.316	1553.358
233	TS-158	79+045	RHS	658999.777	3003395.852	1551.537
234	TS-159	79+140	LHS	659096.943	3003518.133	1546.341
235	TS-160	79+220	RHS	659025.717	3003486.971	1546.460

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: TBM and DGPS List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO:XPL/DSD/WB/KM18.6/TBM/DGPS/04	
						SCALE : NTS	Sheet : 04 OF 04	DATE: Dec-2024

PROPOSED CENTRELINE CO-ORDINATES

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
1	61100	664062.284	2997183.682
2	61120	664043.871	2997191.490
3	61140	664025.638	2997199.695
4	61160	664009.043	2997210.772
5	61180	663994.922	2997224.917
6	61200	663981.434	2997239.684
7	61220	663967.946	2997254.452
8	61240	663954.653	2997269.391
9	61260	663944.211	2997286.363
10	61280	663939.715	2997305.758
11	61300	663940.132	2997325.738
12	61320	663941.127	2997345.709
13	61340	663939.508	2997365.621
14	61360	663935.507	2997385.214
15	61380	663931.296	2997404.766
16	61400	663927.085	2997424.318
17	61420	663920.97	2997443.283
18	61440	663906.578	2997456.642
19	61460	663886.966	2997458.646
20	61480	663867.551	2997453.884
21	61500	663848.246	2997448.657
22	61520	663828.904	2997443.574
23	61540	663809.125	2997440.883
24	61560	663789.289	2997442.992
25	61580	663770.539	2997449.83
26	61600	663752.839	2997459.138
27	61620	663735.016	2997468.205
28	61640	663716.242	2997475.042
29	61660	663696.835	2997479.867
30	61680	663677.361	2997484.426

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
31	61700	663657.888	2997488.984
32	61720	663638.841	2997494.923
33	61740	663624.761	2997508.626
34	61760	663622.104	2997528.081
35	61780	663629.461	2997546.598
36	61800	663638.707	2997564.333
37	61820	663647.627	2997582.226
38	61840	663650.5	2997601.75
39	61860	663641.253	2997619.099
40	61880	663625.293	2997631.094
41	61900	663609.117	2997642.827
42	61920	663597.514	2997658.897
43	61940	663591.88	2997678.061
44	61960	663586.483	2997697.292
45	61980	663573.318	2997711.917
46	62000	663555.906	2997721.754
47	62020	663538.426	2997731.473
48	62040	663521.114	2997741.478
49	62060	663506.017	2997754.527
50	62080	663492.178	2997768.965
51	62100	663478.342	2997783.407
52	62120	663464.184	2997797.528
53	62140	663448.396	2997809.768
54	62160	663430.819	2997819.269
55	62180	663412.368	2997826.981
56	62200	663393.838	2997834.508
57	62220	663375.308	2997842.034
58	62240	663356.775	2997849.553
59	62260	663337.989	2997856.398
60	62280	663318.543	2997861.006

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
61	62300	663298.698	2997863.457
62	62320	663278.79	2997865.373
63	62340	663258.931	2997867.691
64	62360	663240.531	2997875.095
65	62380	663227.765	2997890.22
66	62400	663223.614	2997909.607
67	62420	663225.04	2997929.547
68	62440	663226.96	2997949.454
69	62460	663228.064	2997969.407
70	62480	663225.255	2997989.183
71	62500	663221.251	2998008.778
72	62520	663217.075	2998028.335
73	62540	663208.969	2998046.474
74	62560	663193.695	2998059.133
75	62580	663175.551	2998067.532
76	62600	663157.431	2998075.98
77	62620	663142.334	2998088.842
78	62640	663134.862	2998107.203
79	62660	663132.885	2998127.095
80	62680	663131.434	2998147.043
81	62700	663129.961	2998166.988
82	62720	663125.943	2998186.501
83	62740	663114.165	2998202.407
84	62760	663096.369	2998211.24
85	62780	663076.998	2998216.208
86	62800	663057.795	2998221.737
87	62820	663041.439	2998232.915
88	62840	663032.366	2998250.505
89	62860	663031.519	2998270.41
90	62880	663033.237	2998290.336

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/01	
						SCALE : NTS	Sheet No: 01 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
91	62900	663034.721	2998310.277
92	62920	663031.418	2998329.857
93	62940	663020.134	2998346.17
94	62960	663002.932	2998356.047
95	62980	662983.154	2998357.568
96	63000	662964.615	2998350.486
97	63020	662948.585	2998338.54
98	63040	662932.809	2998326.247
99	63060	662917.033	2998313.953
100	63080	662901.257	2998301.66
101	63100	662885.269	2998289.655
102	63120	662867.029	2998281.677
103	63140	662847.184	2998280.102
104	63160	662827.714	2998284.497
105	63180	662808.569	2998290.281
106	63200	662789.354	2998295.815
107	63220	662769.486	2998297.1
108	63240	662750.208	2998292.036
109	63260	662731.638	2998284.609
110	63280	662713.096	2998277.113
111	63300	662695.37	2998267.915
112	63320	662680.111	2998255.043
113	63340	662666.404	2998240.48
114	63360	662651.5	2998227.212
115	63380	662633.343	2998219.049
116	63400	662613.592	2998216.038
117	63420	662593.696	2998214.006
118	63440	662573.799	2998211.973
119	63460	662553.903	2998209.941
120	63480	662534.006	2998207.909

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
121	63500	662514.11	2998205.876
122	63520	662494.375	2998202.921
123	63540	662481.33	2998188.854
124	63560	662485.235	2998170.026
125	63580	662503.101	2998163.006
126	63600	662522.421	2998168.064
127	63620	662541.583	2998173.794
128	63640	662560.744	2998179.525
129	63660	662579.906	2998185.256
130	63680	662599.067	2998190.986
131	63700	662618.511	2998195.288
132	63720	662635.111	2998185.685
133	63740	662636.339	2998166.502
134	63760	662620.976	2998154.998
135	63780	662601.006	2998154.85
136	63800	662581.014	2998155.419
137	63820	662561.022	2998155.955
138	63840	662541.138	2998154.252
139	63860	662522.12	2998148.148
140	63880	662503.481	2998140.895
141	63900	662484.694	2998134.065
142	63920	662464.902	2998133.775
143	63940	662447.324	2998142.917
144	63960	662432.475	2998156.313
145	63980	662417.992	2998170.095
146	64000	662407.726	2998187.066
147	64020	662406.602	2998206.827
148	64040	662415.058	2998224.731
149	64060	662429.324	2998238.708
150	64080	662444.363	2998251.892

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
151	64100	662459.348	2998265.137
152	64120	662471.417	2998280.938
153	64140	662476.476	2998300.15
154	64160	662473.656	2998319.816
155	64180	662465.182	2998337.917
156	64200	662456.923	2998356.112
157	64220	662454.908	2998375.819
158	64240	662462.5	2998394.097
159	64260	662477.919	2998406.512
160	64280	662496.989	2998412.411
161	64300	662516.464	2998416.965
162	64320	662535.007	2998424.202
163	64340	662549.449	2998437.845
164	64360	662557.818	2998455.916
165	64380	662563.851	2998474.984
166	64400	662568.708	2998494.366
167	64420	662569.442	2998514.31
168	64440	662567.429	2998534.207
169	64460	662565.387	2998554.1
170	64480	662567.392	2998573.909
171	64500	662575.737	2998591.985
172	64520	662587.707	2998608.003
173	64540	662599.86	2998623.888
174	64560	662612.013	2998639.772
175	64580	662624.166	2998655.656
176	64600	662636.421	2998671.461
177	64620	662650.277	2998685.853
178	64640	662665.451	2998698.881
179	64660	662680.595	2998711.944
180	64680	662693.656	2998727.024

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/02	
						SCALE : NTS	Sheet No: 02 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
181	64700	662703.597	2998744.37
182	64720	662713.158	2998761.937
183	64740	662725.979	2998777.033
184	64760	662744.726	2998783.215
185	64780	662764.716	2998782.832
186	64800	662784.707	2998782.286
187	64820	662803.824	2998787.187
188	64840	662816.144	2998802.474
189	64860	662819.492	2998822.132
190	64880	662821.421	2998842.038
191	64900	662826.364	2998861.336
192	64920	662836.202	2998878.729
193	64940	662844.153	2998896.932
194	64960	662841.897	2998916.531
195	64980	662829.399	2998931.797
196	65000	662810.645	2998938.023
197	65020	662790.663	2998938.823
198	65040	662770.674	2998939.501
199	65060	662750.686	2998940.191
200	65080	662730.807	2998942.213
201	65100	662711.519	2998947.415
202	65120	662693.362	2998955.745
203	65140	662676.628	2998966.682
204	65160	662660.257	2998978.171
205	65180	662643.886	2998989.66
206	65200	662627.516	2999001.149
207	65220	662611.145	2999012.638
208	65240	662594.721	2999024.05
209	65260	662577.682	2999034.512
210	65280	662559.862	2999043.581

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
211	65300	662541.385	2999051.224
212	65320	662522.644	2999058.207
213	65340	662503.898	2999065.18
214	65360	662485.153	2999072.153
215	65380	662466.408	2999079.126
216	65400	662447.663	2999086.099
217	65420	662428.918	2999093.072
218	65440	662410.173	2999100.045
219	65460	662391.428	2999107.018
220	65480	662372.683	2999113.991
221	65500	662353.938	2999120.964
222	65520	662334.491	2999123.625
223	65540	662320.753	2999110.246
224	65560	662323.244	2999091.191
225	65580	662340.362	2999081.878
226	65600	662359.985	2999078.017
227	65620	662379.611	2999074.166
228	65640	662399.237	2999070.314
229	65660	662418.862	2999066.463
230	65680	662438.488	2999062.611
231	65700	662457.771	2999057.567
232	65720	662468.565	2999041.713
233	65740	662461.672	2999023.701
234	65760	662442.918	2999019.08
235	65780	662423.32	2999023.061
236	65800	662403.746	2999027.165
237	65820	662384.171	2999031.269
238	65840	662364.497	2999034.832
239	65860	662344.547	2999036.018
240	65880	662324.579	2999034.963

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
241	65900	662304.63	2999033.541
242	65920	662284.68	2999032.12
243	65940	662265.342	2999027.948
244	65960	662255.926	2999011.242
245	65980	662264.552	2998994.078
246	66000	662283.689	2998991.715
247	66020	662302.441	2998998.658
248	66040	662321.131	2999005.778
249	66060	662339.977	2999012.443
250	66080	662359.798	2999014.297
251	66100	662379.549	2999011.21
252	66120	662399.226	2999007.632
253	66140	662418.903	2999004.054
254	66160	662438.581	2999000.476
255	66180	662458.258	2998996.897
256	66200	662477.167	2998990.965
257	66220	662485.358	2998973.625
258	66240	662475.48	2998957.094
259	66260	662456.227	2998955.896
260	66280	662437.86	2998963.803
261	66300	662419.558	2998971.867
262	66320	662401.256	2998979.931
263	66340	662382.953	2998987.994
264	66360	662363.804	2998993.33
265	66380	662344.398	2998989.437
266	66400	662328.299	2998977.681
267	66420	662313.094	2998964.69
268	66440	662296.138	2998954.232
269	66460	662276.589	2998950.671
270	66480	662256.734	2998952.897

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/03	
						SCALE : NTS	Sheet No: 03 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
271	66500	662236.993	2998956.107
272	66520	662217.209	2998959.009
273	66540	662197.305	2998957.947
274	66560	662178.507	2998951.321
275	66580	662162.338	2998939.666
276	66600	662149.732	2998924.182
277	66620	662138.216	2998907.831
278	66640	662126.393	2998891.706
279	66660	662111.809	2998878.097
280	66680	662094.726	2998867.717
281	66700	662077.339	2998857.833
282	66720	662061.42	2998845.842
283	66740	662049.911	2998829.563
284	66760	662040.339	2998812.003
285	66780	662030.56	2998794.561
286	66800	662017.366	2998779.651
287	66820	662000.031	2998769.861
288	66840	661980.897	2998764.053
289	66860	661961.68	2998758.512
290	66880	661942.463	2998752.972
291	66900	661923.245	2998747.431
292	66920	661904.028	2998741.891
293	66940	661884.811	2998736.35
294	66960	661865.594	2998730.81
295	66980	661846.377	2998725.269
296	67000	661827.159	2998719.729
297	67020	661807.942	2998714.188
298	67040	661788.725	2998708.647
299	67060	661769.513	2998703.09
300	67080	661750.621	2998696.549

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
301	67100	661732.557	2998687.991
302	67120	661715.158	2998678.129
303	67140	661697.805	2998668.185
304	67160	661680.452	2998658.242
305	67180	661663.098	2998648.298
306	67200	661645.745	2998638.355
307	67220	661628.392	2998628.411
308	67240	661611.039	2998618.468
309	67260	661593.735	2998608.441
310	67280	661578.492	2998595.624
311	67300	661568.232	2998578.564
312	67320	661563.941	2998559.104
313	67340	661562.295	2998539.172
314	67360	661560.619	2998519.242
315	67380	661556.083	2998499.834
316	67400	661545.967	2998482.672
317	67420	661531.128	2998469.381
318	67440	661512.96	2998461.208
319	67460	661493.171	2998458.921
320	67480	661473.618	2998462.734
321	67500	661456.139	2998472.291
322	67520	661441.948	2998486.333
323	67540	661428.734	2998501.346
324	67560	661415.419	2998516.267
325	67580	661399.622	2998528.391
326	67600	661380.745	2998534.713
327	67620	661360.811	2998534.752
328	67640	661340.952	2998532.384
329	67660	661321.094	2998530.004
330	67680	661301.236	2998527.624

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
331	67700	661281.378	2998525.244
332	67720	661261.573	2998522.497
333	67740	661242.662	2998516.149
334	67760	661225.909	2998505.32
335	67780	661211.305	2998491.661
336	67800	661196.907	2998477.78
337	67820	661182.508	2998463.9
338	67840	661168.109	2998450.019
339	67860	661153.71	2998436.139
340	67880	661138.41	2998423.318
341	67900	661120.053	2998415.615
342	67920	661100.187	2998414.341
343	67940	661080.997	2998419.638
344	67960	661064.596	2998430.922
345	67980	661052.584	2998446.829
346	68000	661042.36	2998464.015
347	68020	661028.872	2998478.66
348	68040	661011.344	2998488.098
349	68060	660991.693	2998491.282
350	68080	660972.082	2998487.86
351	68100	660954.669	2998478.21
352	68120	660940.133	2998464.489
353	68140	660925.948	2998450.39
354	68160	660911.763	2998436.29
355	68180	660897.578	2998422.191
356	68200	660883.393	2998408.092
357	68220	660869.209	2998393.992
358	68240	660855.024	2998379.893
359	68260	660840.839	2998365.794
360	68280	660826.932	2998351.428

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/04	
						SCALE : NTS	Sheet No: 04 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
361	68300	660815.689	2998334.937
362	68320	660807.937	2998316.519
363	68340	660801.042	2998297.745
364	68360	660794.147	2998278.972
365	68380	660787.251	2998260.198
366	68400	660780.356	2998241.424
367	68420	660773.37	2998222.685
368	68440	660762.562	2998206.03
369	68460	660745.716	2998195.556
370	68480	660726.005	2998193.343
371	68500	660706.694	2998198.404
372	68520	660687.664	2998204.556
373	68540	660668.042	2998207.177
374	68560	660650.712	2998197.954
375	68580	660642.702	2998180.003
376	68600	660641.588	2998160.039
377	68620	660640.713	2998140.058
378	68640	660639.838	2998120.077
379	68660	660638.962	2998100.096
380	68680	660638.087	2998080.115
381	68700	660637.212	2998060.135
382	68720	660636.336	2998040.154
383	68740	660635.461	2998020.173
384	68760	660634.586	2998000.192
385	68780	660633.517	2997980.224
386	68800	660623.696	2997963.634
387	68820	660604.432	2997962.326
388	68840	660591.881	2997976.826
389	68860	660594.5	2997996.432
390	68880	660599.934	2998015.68

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
391	68900	660605.368	2998034.927
392	68920	660610.802	2998054.175
393	68940	660615.96	2998073.494
394	68960	660616.359	2998093.338
395	68980	660607.57	2998111.08
396	69000	660592.957	2998124.69
397	69020	660577.538	2998137.427
398	69040	660562.118	2998150.164
399	69060	660546.699	2998162.902
400	69080	660531.279	2998175.639
401	69100	660515.941	2998188.473
402	69120	660501.829	2998202.624
403	69140	660489.607	2998218.444
404	69160	660478.042	2998234.76
405	69180	660466.477	2998251.078
406	69200	660454.913	2998267.396
407	69220	660443.348	2998283.713
408	69240	660431.784	2998300.031
409	69260	660420.219	2998316.348
410	69280	660407.353	2998331.586
411	69300	660390.003	2998341.263
412	69320	660370.253	2998343.42
413	69340	660350.855	2998338.726
414	69360	660331.763	2998332.767
415	69380	660312.672	2998326.808
416	69400	660293.58	2998320.849
417	69420	660274.489	2998314.889
418	69440	660255.397	2998308.93
419	69460	660236.305	2998302.971
420	69480	660217.214	2998297.011

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
421	69500	660198.104	2998291.114
422	69520	660178.474	2998287.553
423	69540	660158.73	2998290.099
424	69560	660140.723	2998298.664
425	69580	660124.056	2998309.717
426	69600	660106.68	2998319.515
427	69620	660087.058	2998322.621
428	69640	660067.769	2998317.853
429	69660	660050.21	2998308.288
430	69680	660032.675	2998298.675
431	69700	660013.828	2998292.12
432	69720	659994.274	2998287.922
433	69740	659974.803	2998283.376
434	69760	659956.155	2998276.212
435	69780	659938.862	2998266.193
436	69800	659922.11	2998255.269
437	69820	659905.355	2998244.346
438	69840	659888.126	2998234.211
439	69860	659869.457	2998227.13
440	69880	659849.895	2998223.001
441	69900	659830.207	2998219.478
442	69920	659810.52	2998215.956
443	69940	659790.833	2998212.434
444	69960	659771.147	2998208.9
445	69980	659751.609	2998204.655
446	70000	659732.758	2998198.036
447	70020	659715.229	2998188.449
448	70040	659698.871	2998176.948
449	70060	659682.825	2998165.01
450	70080	659666.779	2998153.071

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/05	
						SCALE : NTS	Sheet No: 05 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
451	70100	659650.735	2998141.13
452	70120	659635.106	2998128.661
453	70140	659621.209	2998114.301
454	70160	659608.558	2998098.812
455	70180	659596.003	2998083.243
456	70200	659581.897	2998069.196
457	70220	659563.175	2998062.775
458	70240	659543.666	2998066.117
459	70260	659528.148	2998078.402
460	70280	659518.053	2998095.642
461	70300	659507.945	2998112.883
462	70320	659494.447	2998127.57
463	70340	659477.734	2998138.461
464	70360	659458.848	2998144.887
465	70380	659439.129	2998148.214
466	70400	659419.377	2998151.354
467	70420	659399.625	2998154.495
468	70440	659379.994	2998158.286
469	70460	659361.04	2998164.612
470	70480	659342.673	2998172.526
471	70500	659324.352	2998180.547
472	70520	659306.03	2998188.567
473	70540	659287.709	2998196.588
474	70560	659269.388	2998204.608
475	70580	659251.066	2998212.629
476	70600	659232.356	2998219.608
477	70620	659212.487	2998221.091
478	70640	659192.536	2998219.685
479	70660	659172.589	2998218.241
480	70680	659152.641	2998216.798

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
481	70700	659132.714	2998215.104
482	70720	659112.947	2998212.099
483	70740	659093.516	2998207.391
484	70760	659074.554	2998201.047
485	70780	659055.921	2998193.782
486	70800	659037.318	2998186.437
487	70820	659018.715	2998179.092
488	70840	659000.109	2998171.758
489	70860	658981.189	2998165.305
490	70880	658961.541	2998161.694
491	70900	658941.571	2998160.69
492	70920	658921.576	2998160.247
493	70940	658901.598	2998159.402
494	70960	658882.062	2998155.352
495	70980	658864.119	2998146.635
496	71000	658848.891	2998133.75
497	71020	658836.857	2998117.803
498	71040	658825.997	2998101.008
499	71060	658815.052	2998084.27
500	71080	658803.784	2998067.751
501	71100	658790.232	2998053.094
502	71120	658773.805	2998041.759
503	71140	658755.283	2998034.323
504	71160	658735.577	2998031.152
505	71180	658715.658	2998032.403
506	71200	658696.503	2998038.013
507	71220	658679.053	2998047.701
508	71240	658663.464	2998060.218
509	71260	658648.288	2998073.245
510	71280	658633.113	2998086.271

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
511	71300	658617.937	2998099.298
512	71320	658602.722	2998112.278
513	71340	658586.609	2998124.106
514	71360	658569.153	2998133.841
515	71380	658550.815	2998141.818
516	71400	658532.379	2998149.572
517	71420	658513.943	2998157.325
518	71440	658495.505	2998165.072
519	71460	658476.504	2998171.2
520	71480	658456.608	2998172.641
521	71500	658436.969	2998169.134
522	71520	658418.016	2998162.75
523	71540	658399.105	2998156.242
524	71560	658380.194	2998149.734
525	71580	658361.133	2998143.721
526	71600	658341.46	2998145.234
527	71620	658325.726	2998157.137
528	71640	658318.929	2998175.658
529	71660	658322.859	2998195.067
530	71680	658330.824	2998213.412
531	71700	658338.81	2998231.749
532	71720	658346.796	2998250.085
533	71740	658354.782	2998268.421
534	71760	658362.769	2998286.757
535	71780	658370.755	2998305.094
536	71800	658378.741	2998323.43
537	71820	658386.696	2998341.78
538	71840	658393.517	2998360.567
539	71860	658397.368	2998380.17
540	71880	658397.976	2998400.141

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/06	
						SCALE : NTS	Sheet No: 06 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
541	71900	658396.672	2998420.097
542	71920	658395.195	2998440.042
543	71940	658393.717	2998459.988
544	71960	658392.239	2998479.933
545	71980	658390.96	2998499.891
546	72000	658391.664	2998519.858
547	72020	658395.27	2998539.52
548	72040	658399.845	2998558.99
549	72060	658404.434	2998578.456
550	72080	658409.023	2998597.923
551	72100	658413.616	2998617.388
552	72120	658418.825	2998636.693
553	72140	658426.084	2998655.315
554	72160	658435.188	2998673.119
555	72180	658444.706	2998690.709
556	72200	658454.224	2998708.299
557	72220	658463.743	2998725.889
558	72240	658473.261	2998743.479
559	72260	658482.78	2998761.068
560	72280	658492.221	2998778.699
561	72300	658499.29	2998797.35
562	72320	658500.514	2998817.242
563	72340	658498.408	2998837.129
564	72360	658496.083	2998856.993
565	72380	658493.759	2998876.858
566	72400	658491.435	2998896.722
567	72420	658489.111	2998916.587
568	72440	658486.397	2998936.396
569	72460	658479.867	2998955.215
570	72480	658467.773	2998971.056
571	72500	658453.127	2998984.672
572	72520	658438.339	2998998.137

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
573	72540	658424.212	2999012.283
574	72560	658411.877	2999028.011
575	72580	658400.699	2999044.595
576	72600	658389.615	2999061.242
577	72620	658378.066	2999077.563
578	72640	658364.664	2999092.391
579	72660	658350.255	2999106.26
580	72680	658335.819	2999120.102
581	72700	658321.383	2999133.944
582	72720	658307.138	2999147.978
583	72740	658295.565	2999164.226
584	72760	658287.812	2999182.642
585	72780	658280.904	2999201.411
586	72800	658273.821	2999220.112
587	72820	658263.572	2999237.209
588	72840	658248.93	2999250.734
589	72860	658231.412	2999260.344
590	72880	658213.479	2999269.199
591	72900	658195.546	2999278.054
592	72920	658178.121	2999287.825
593	72940	658163.34	2999301.221
594	72960	658152.333	2999317.857
595	72980	658144.825	2999336.384
596	73000	658137.799	2999355.11
597	73020	658130.774	2999373.836
598	73040	658123.749	2999392.561
599	73060	658117.042	2999411.399
600	73080	658113.314	2999431.002
601	73100	658114.491	2999450.915
602	73120	658120.512	2999469.937
603	73140	658129.51	2999487.794
604	73160	658138.853	2999505.478

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
605	73180	658148.195	2999523.161
606	73200	658157.538	2999540.845
607	73220	658166.88	2999558.529
608	73240	658176.223	2999576.213
609	73260	658185.565	2999593.897
610	73280	658194.908	2999611.58
611	73300	658203.864	2999629.456
612	73320	658208.631	2999648.787
613	73340	658206.832	2999668.613
614	73360	658198.646	2999686.76
615	73380	658185.452	2999701.738
616	73400	658171.043	2999715.608
617	73420	658156.631	2999729.476
618	73440	658142.22	2999743.343
619	73460	658127.809	2999757.211
620	73480	658113.397	2999771.078
621	73500	658098.986	2999784.946
622	73520	658084.574	2999798.814
623	73540	658070.165	2999812.683
624	73560	658056.291	2999827.079
625	73580	658044.026	2999842.864
626	73600	658033.587	2999859.911
627	73620	658025.102	2999878.011
628	73640	658018.677	2999896.94
629	73660	658014.39	2999916.464
630	73680	658012.287	2999936.343
631	73700	658011.521	2999956.328
632	73720	658010.818	2999976.316
633	73740	658010.115	2999996.304
634	73760	658009.412	3000016.291
635	73780	658008.708	3000036.279
636	73800	658008.005	3000056.267

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaion Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/07	
						SCALE : NTS	Sheet No: 07 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
637	73820	658007.302	3000076.254
638	73840	658006.139	3000096.215
639	73860	658002.2	3000115.799
640	73880	657995.067	3000134.459
641	73900	657984.937	3000151.677
642	73920	657972.092	3000166.976
643	73940	657956.886	3000179.932
644	73960	657939.743	3000190.19
645	73980	657921.566	3000198.529
646	74000	657903.331	3000206.744
647	74020	657885.096	3000214.959
648	74040	657866.861	3000223.174
649	74060	657848.626	3000231.389
650	74080	657830.802	3000240.432
651	74100	657814.606	3000252.128
652	74120	657800.576	3000266.348
653	74140	657789.098	3000282.699
654	74160	657780.465	3000300.716
655	74180	657773.44	3000319.441
656	74200	657766.463	3000338.185
657	74220	657759.485	3000356.928
658	74240	657752.239	3000375.567
659	74260	657743.882	3000393.734
660	74280	657734.521	3000411.406
661	74300	657724.996	3000428.993
662	74320	657715.472	3000446.58
663	74340	657705.948	3000464.166
664	74360	657696.423	3000481.753
665	74380	657686.899	3000499.339
666	74400	657677.375	3000516.926
667	74420	657667.85	3000534.512
668	74440	657658.326	3000552.099

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
669	74460	657648.802	3000569.686
670	74480	657639.277	3000587.272
671	74500	657629.753	3000604.859
672	74520	657620.144	3000622.399
673	74540	657608.828	3000638.862
674	74560	657594.945	3000653.226
675	74580	657578.871	3000665.089
676	74600	657561.112	3000674.253
677	74620	657542.854	3000682.417
678	74640	657524.615	3000690.623
679	74660	657507.217	3000700.429
680	74680	657492.543	3000713.942
681	74700	657481.669	3000730.665
682	74720	657475.033	3000749.495
683	74740	657470.483	3000768.97
684	74760	657466.032	3000788.469
685	74780	657461.581	3000807.967
686	74800	657457.129	3000827.466
687	74820	657452.678	3000846.964
688	74840	657448.227	3000866.462
689	74860	657443.776	3000885.961
690	74880	657439.325	3000905.459
691	74900	657435.208	3000925.028
692	74920	657433.378	3000944.922
693	74940	657434.856	3000964.844
694	74960	657439.432	3000984.299
695	74980	657445.323	3001003.411
696	75000	657451.264	3001022.509
697	75020	657457.204	3001041.606
698	75040	657463.145	3001060.703
699	75060	657469.039	3001079.815
700	75080	657473.456	3001099.301

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
701	75100	657474.185	3001119.255
702	75120	657470.935	3001138.955
703	75140	657464.133	3001157.744
704	75160	657456.024	3001176.026
705	75180	657447.883	3001194.294
706	75200	657439.781	3001212.58
707	75220	657432.381	3001231.156
708	75240	657426.43	3001250.245
709	75260	657422.024	3001269.748
710	75280	657419.19	3001289.541
711	75300	657417.948	3001309.497
712	75320	657418.303	3001329.489
713	75340	657420.256	3001349.388
714	75360	657423.787	3001369.068
715	75380	657428.434	3001388.52
716	75400	657433.257	3001407.93
717	75420	657438.08	3001427.34
718	75440	657442.903	3001446.749
719	75460	657447.726	3001466.159
720	75480	657452.549	3001485.569
721	75500	657457.372	3001504.979
722	75520	657462.308	3001524.36
723	75540	657468.212	3001543.463
724	75560	657475.607	3001562.04
725	75580	657484.464	3001579.966
726	75600	657494.725	3001597.127
727	75620	657506.324	3001613.414
728	75640	657519.127	3001628.774
729	75660	657532.458	3001643.683
730	75680	657545.813	3001658.571
731	75700	657559.168	3001673.459
732	75720	657572.523	3001688.347

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaion Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/08	
						SCALE : NTS	Sheet No: 08 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
733	75740	657585.877	3001703.235
734	75760	657599.406	3001717.964
735	75780	657613.125	3001732.517
736	75800	657626.844	3001747.069
737	75820	657640.564	3001761.622
738	75840	657654.283	3001776.175
739	75860	657668.002	3001790.728
740	75880	657681.721	3001805.28
741	75900	657695.441	3001819.833
742	75920	657709.355	3001834.197
743	75940	657724.1	3001847.704
744	75960	657739.537	3001860.419
745	75980	657755.117	3001872.959
746	76000	657770.697	3001885.5
747	76020	657786.277	3001898.041
748	76040	657801.856	3001910.582
749	76060	657817.436	3001923.123
750	76080	657833.016	3001935.663
751	76100	657848.596	3001948.204
752	76120	657864.175	3001960.745
753	76140	657879.755	3001973.286
754	76160	657895.335	3001985.827
755	76180	657910.915	3001998.367
756	76200	657926.494	3002010.908
757	76220	657942.074	3002023.449
758	76240	657957.654	3002035.99
759	76260	657973.222	3002048.544
760	76280	657988.494	3002061.456
761	76300	658003.048	3002075.17
762	76320	658016.796	3002089.692
763	76340	658029.691	3002104.976
764	76360	658041.693	3002120.971

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
765	76380	658052.761	3002137.626
766	76400	658062.861	3002154.886
767	76420	658071.958	3002172.694
768	76440	658080.029	3002190.99
769	76460	658087.373	3002209.593
770	76480	658094.611	3002228.237
771	76500	658101.849	3002246.881
772	76520	658109.087	3002265.526
773	76540	658116.325	3002284.17
774	76560	658123.563	3002302.814
775	76580	658130.801	3002321.459
776	76600	658138.039	3002340.103
777	76620	658145.277	3002358.747
778	76640	658152.712	3002377.313
779	76660	658161.424	3002395.307
780	76680	658171.882	3002412.345
781	76700	658183.988	3002428.255
782	76720	658197.541	3002442.955
783	76740	658211.697	3002457.083
784	76760	658225.877	3002471.188
785	76780	658240.056	3002485.292
786	76800	658254.236	3002499.397
787	76820	658268.342	3002513.575
788	76840	658281.412	3002528.698
789	76860	658292.413	3002545.382
790	76880	658301.099	3002563.381
791	76900	658307.316	3002582.375
792	76920	658310.969	3002602.024
793	76940	658312.852	3002621.934
794	76960	658314.492	3002641.866
795	76980	658316.133	3002661.799
796	77000	658317.773	3002681.732

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
797	77020	658319.413	3002701.664
798	77040	658321.784	3002721.509
799	77060	658328.278	3002740.37
800	77080	658339.235	3002757.039
801	77100	658353.211	3002771.336
802	77120	658367.5	3002785.33
803	77140	658381.789	3002799.323
804	77160	658396.078	3002813.317
805	77180	658410.366	3002827.312
806	77200	658423.647	3002842.231
807	77220	658433.51	3002859.583
808	77240	658439.606	3002878.608
809	77260	658444.576	3002897.98
810	77280	658449.546	3002917.353
811	77300	658454.515	3002936.726
812	77320	658459.485	3002956.099
813	77340	658464.697	3002975.405
814	77360	658472.568	3002993.744
815	77380	658484.532	3003009.721
816	77400	658498.441	3003024.091
817	77420	658512.464	3003038.351
818	77440	658525.275	3003053.668
819	77460	658533.232	3003071.916
820	77480	658534.795	3003091.764
821	77500	658531.431	3003111.463
822	77520	658527.195	3003131.009
823	77540	658523.534	3003150.66
824	77560	658524.39	3003170.574
825	77580	658530.824	3003189.439
826	77600	658542.191	3003205.831
827	77620	658555.373	3003220.872
828	77640	658568.57	3003235.9

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaion Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/09	
						SCALE : NTS	Sheet No: 09 OF 10	DATE: Dec-2024

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
829	77660	658581.766	3003250.928
830	77680	658594.869	3003266.038
831	77700	658607.276	3003281.72
832	77720	658618.618	3003298.188
833	77740	658629.101	3003315.22
834	77760	658639.409	3003332.359
835	77780	658649.716	3003349.499
836	77800	658660.024	3003366.638
837	77820	658670.298	3003383.797
838	77840	658680.184	3003401.182
839	77860	658689.381	3003418.94
840	77880	658697.863	3003437.051
841	77900	658705.829	3003455.396
842	77920	658713.714	3003473.776
843	77940	658721.598	3003492.156
844	77960	658729.483	3003510.536
845	77980	658737.368	3003528.917
846	78000	658745.252	3003547.297
847	78020	658753.137	3003565.677
848	78040	658761.078	3003584.033
849	78060	658769.484	3003602.179
850	78080	658778.578	3003619.991
851	78100	658788.017	3003637.624
852	78120	658797.477	3003655.245
853	78140	658806.936	3003672.866
854	78160	658816.396	3003690.488
855	78180	658825.856	3003708.109
856	78200	658835.316	3003725.73
857	78220	658844.456	3003743.517
858	78240	658852.142	3003761.973
859	78260	658858.186	3003781.034
860	78280	658863.715	3003800.255

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
861	78300	658869.238	3003819.477
862	78320	658874.762	3003838.699
863	78340	658880.691	3003857.792
864	78360	658891.83	3003874.147
865	78380	658909.864	3003882.147
866	78400	658929.435	3003879.325
867	78420	658944.844	3003867.005
868	78440	658951.143	3003848.308
869	78460	658946.596	3003829.054
870	78480	658936.388	3003811.865
871	78500	658925.781	3003794.91
872	78520	658915.174	3003777.954
873	78540	658904.567	3003760.998
874	78560	658894.347	3003743.815
875	78580	658887.038	3003725.234
876	78600	658883.041	3003705.648
877	78620	658879.678	3003685.933
878	78640	658875.972	3003666.28
879	78660	658871.522	3003646.783
880	78680	658866.295	3003627.479
881	78700	658860.301	3003608.4
882	78720	658853.568	3003589.569
883	78740	658846.432	3003570.885
884	78760	658839.265	3003552.214
885	78780	658832.097	3003533.542
886	78800	658824.93	3003514.87
887	78820	658817.763	3003496.199
888	78840	658811.279	3003477.305
889	78860	658813.883	3003457.845
890	78880	658827.958	3003444.158
891	78900	658847.37	3003441.173
892	78920	658864.478	3003450.803

LAVA TO PADONG			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
893	78940	658872.062	3003468.938
894	78960	658872.699	3003488.923
895	78980	658873.341	3003508.911
896	79000	658875.771	3003528.749
897	79020	658880.799	3003548.091
898	79040	658888.016	3003566.738
899	79060	658895.853	3003585.139
900	79080	658903.695	3003603.537
901	79100	658911.856	3003621.789
902	79120	658924.774	3003636.845
903	79140	658942.902	3003644.896
904	79160	658962.731	3003644.369
905	79180	658980.407	3003635.368
906	79200	658992.496	3003619.642
907	79220	658998.779	3003600.669
908	79240	659004.684	3003581.561
909	79260	659010.59	3003562.453
910	79280	659016.496	3003543.345
911	79300	659023.879	3003524.828
912	79320	659038.458	3003511.475
913	79340	659057.772	3003507.252
914	79360	659076.593	3003513.303
915	79380	659089.827	3003527.99
916	79400	659094.404	3003547.306
917	79420	659095.693	3003567.264
918	79440	659097.015	3003587.221
919	79460	659100.636	3003606.845
920	79480	659108.802	3003625.057
921	79500	659118.764	3003642.4
922	79520	659128.741	3003659.734

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaion Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Centre Line Co-ordinates List Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/CO/10	
						SCALE : NTS	Sheet No: 10 OF 10	DATE: Dec-2024

ROW LIST

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
1	61+100	664057.60	2997172.63	664062.28	2997183.68	664066.97	2997194.73
2	61+120	664039.19	2997180.44	664043.87	2997191.49	664048.56	2997202.54
3	61+140	664019.73	2997189.25	664025.64	2997199.70	664031.55	2997210.16
4	61+160	664000.99	2997201.87	664009.04	2997210.77	664017.09	2997219.68
5	61+180	663986.06	2997216.83	663994.92	2997224.92	664003.78	2997233.02
6	61+200	663972.57	2997231.59	663981.43	2997239.69	663990.29	2997247.78
7	61+220	663959.08	2997246.36	663967.94	2997254.46	663976.80	2997262.55
8	61+240	663945.14	2997262.07	663954.65	2997269.39	663964.16	2997276.73
9	61+260	663932.94	2997282.23	663944.21	2997286.37	663955.50	2997290.52
10	61+280	663927.72	2997305.32	663939.71	2997305.77	663951.73	2997306.23
11	61+300	663928.16	2997326.54	663940.13	2997325.75	663952.11	2997324.96
12	61+320	663929.12	2997345.50	663941.13	2997345.73	663953.12	2997345.95
13	61+340	663927.72	2997363.36	663939.50	2997365.64	663951.29	2997367.92
14	61+360	663923.77	2997382.71	663935.50	2997385.23	663947.23	2997387.76
15	61+380	663919.56	2997402.26	663931.29	2997404.78	663943.02	2997407.31
16	61+400	663915.37	2997421.71	663927.08	2997424.34	663938.79	2997426.96
17	61+420	663910.73	2997436.85	663920.96	2997443.30	663931.11	2997449.70
18	61+440	663902.40	2997445.30	663906.55	2997456.65	663910.66	2997467.93
19	61+460	663889.20	2997446.82	663886.92	2997458.64	663884.64	2997470.42
20	61+480	663870.64	2997442.29	663867.50	2997453.87	663864.37	2997465.45
21	61+500	663851.34	2997437.06	663848.20	2997448.64	663845.06	2997460.23
22	61+520	663831.36	2997431.83	663828.86	2997443.56	663826.35	2997455.31
23	61+540	663808.93	2997428.89	663809.07	2997440.88	663809.22	2997452.91
24	61+560	663786.18	2997431.40	663789.24	2997443.01	663792.30	2997454.63
25	61+580	663765.01	2997439.18	663770.49	2997449.86	663775.97	2997460.54
26	61+600	663747.16	2997448.57	663752.79	2997459.17	663758.41	2997469.77
27	61+620	663730.17	2997457.22	663734.96	2997468.23	663739.75	2997479.23
28	61+640	663713.15	2997463.44	663716.18	2997475.06	663719.22	2997486.67
29	61+660	663694.04	2997468.20	663696.78	2997479.88	663699.51	2997491.57
30	61+680	663674.57	2997472.76	663677.30	2997484.44	663680.04	2997496.12
31	61+700	663655.09	2997477.31	663657.83	2997489.00	663660.56	2997500.68
32	61+720	663632.99	2997484.45	663638.78	2997494.95	663644.60	2997505.51
33	61+740	663613.74	2997503.88	663624.73	2997508.69	663635.78	2997513.54
34	61+760	663610.50	2997531.15	663622.12	2997528.16	663633.83	2997525.15
35	61+780	663618.86	2997552.22	663629.50	2997546.68	663640.14	2997541.13
36	61+800	663628.11	2997569.96	663638.75	2997564.41	663649.39	2997558.87

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
37	61+820	663636.33	2997586.36	663647.66	2997582.31	663658.96	2997578.27
38	61+840	663638.70	2997599.25	663650.48	2997601.85	663662.20	2997604.43
39	61+860	663633.11	2997610.21	663641.17	2997619.17	663649.20	2997628.10
40	61+880	663618.53	2997621.18	663625.20	2997631.16	663631.86	2997641.14
41	61+900	663600.72	2997634.26	663609.03	2997642.91	663617.37	2997651.58
42	61+920	663586.24	2997654.79	663597.47	2997659.01	663608.73	2997663.24
43	61+940	663580.18	2997675.38	663591.85	2997678.18	663603.52	2997680.99
44	61+960	663575.58	2997692.18	663586.43	2997697.41	663597.24	2997702.62
45	61+980	663567.02	2997701.69	663573.20	2997711.99	663579.38	2997722.28
46	62+000	663549.96	2997711.33	663555.79	2997721.82	663561.62	2997732.31
47	62+020	663532.48	2997721.05	663538.31	2997731.54	663544.14	2997742.03
48	62+040	663514.23	2997731.65	663521.00	2997741.55	663527.78	2997751.47
49	62+060	663497.27	2997746.31	663505.92	2997754.63	663514.57	2997762.94
50	62+080	663483.42	2997760.76	663492.08	2997769.07	663500.75	2997777.37
51	62+100	663469.63	2997775.16	663478.24	2997783.51	663486.86	2997791.86
52	62+120	663456.15	2997788.61	663464.08	2997797.62	663472.01	2997806.63
53	62+140	663441.94	2997799.64	663448.28	2997809.84	663454.60	2997820.04
54	62+160	663425.95	2997808.29	663430.69	2997819.33	663435.42	2997830.35
55	62+180	663407.72	2997815.92	663412.23	2997827.04	663416.75	2997838.15
56	62+200	663389.19	2997823.44	663393.70	2997834.56	663398.22	2997845.68
57	62+220	663370.66	2997830.97	663375.17	2997842.09	663379.69	2997853.21
58	62+240	663352.30	2997838.42	663356.64	2997849.61	663360.98	2997860.79
59	62+260	663334.69	2997844.86	663337.85	2997856.44	663341.00	2997868.01
60	62+280	663316.72	2997849.14	663318.40	2997861.03	663320.07	2997872.91
61	62+300	663297.39	2997851.53	663298.55	2997863.47	663299.70	2997875.42
62	62+320	663277.49	2997853.44	663278.64	2997865.39	663279.79	2997877.33
63	62+340	663256.12	2997856.03	663258.78	2997867.72	663261.46	2997879.44
64	62+360	663232.84	2997865.88	663240.41	2997875.19	663248.01	2997884.56
65	62+380	663216.61	2997885.79	663227.70	2997890.38	663238.85	2997894.99
66	62+400	663211.62	2997910.08	663223.62	2997909.79	663235.63	2997909.49
67	62+420	663213.11	2997930.88	663225.06	2997929.73	663237.00	2997928.58
68	62+440	663215.03	2997950.79	663226.98	2997949.64	663238.92	2997948.48
69	62+460	663216.07	2997968.73	663228.05	2997969.59	663240.02	2997970.45
70	62+480	663213.46	2997986.96	663225.22	2997989.36	663236.98	2997991.77
71	62+500	663209.46	2998006.56	663221.21	2998008.96	663232.97	2998011.36
72	62+520	663205.49	2998025.16	663217.02	2998028.51	663228.55	2998031.86

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
73	62+540	663199.57	2998038.92	663208.85	2998046.62	663218.08	2998054.29
74	62+560	663188.06	2998048.52	663193.52	2998059.22	663198.97	2998069.92
75	62+580	663170.53	2998056.63	663175.37	2998067.61	663180.21	2998078.59
76	62+600	663151.02	2998065.83	663157.26	2998076.09	663163.50	2998086.35
77	62+620	663132.10	2998082.58	663142.22	2998089.02	663152.39	2998095.49
78	62+640	663122.96	2998105.65	663134.83	2998107.42	663146.71	2998109.19
79	62+660	663120.90	2998126.45	663132.87	2998127.32	663144.84	2998128.19
80	62+680	663119.45	2998146.39	663131.42	2998147.26	663143.39	2998148.13
81	62+700	663118.00	2998165.98	663129.94	2998167.21	663141.88	2998168.44
82	62+720	663114.99	2998181.46	663125.84	2998186.70	663136.65	2998191.92
83	62+740	663106.97	2998192.72	663113.97	2998202.55	663120.93	2998212.32
84	62+760	663092.90	2998199.75	663096.13	2998211.31	663099.36	2998222.86
85	62+780	663073.88	2998204.62	663076.76	2998216.27	663079.64	2998227.92
86	62+800	663052.70	2998210.87	663057.57	2998221.84	663062.44	2998232.82
87	62+820	663031.83	2998225.73	663041.28	2998233.12	663050.78	2998240.55
88	62+840	663020.49	2998248.78	663032.32	2998250.77	663044.21	2998252.78
89	62+860	663019.58	2998271.68	663031.54	2998270.69	663043.50	2998269.69
90	62+880	663021.31	2998291.66	663033.26	2998290.61	663045.22	2998289.57
91	62+900	663022.71	2998310.40	663034.72	2998310.55	663046.72	2998310.71
92	62+920	663020.39	2998325.00	663031.30	2998330.12	663042.16	2998335.21
93	62+940	663012.26	2998337.05	663019.91	2998346.36	663027.52	2998355.63
94	62+960	662999.73	2998344.44	663002.64	2998356.12	663005.53	2998367.77
95	62+980	662985.25	2998345.71	662982.84	2998357.50	662980.45	2998369.26
96	63+000	662971.09	2998340.38	662964.35	2998350.31	662957.60	2998360.23
97	63+020	662955.71	2998328.88	662948.33	2998338.34	662940.95	2998347.81
98	63+040	662939.93	2998316.58	662932.55	2998326.05	662925.18	2998335.51
99	63+060	662924.15	2998304.29	662916.78	2998313.75	662909.40	2998323.22
100	63+080	662908.38	2998292.00	662901.00	2998301.46	662893.63	2998310.93
101	63+100	662891.34	2998279.30	662884.99	2998289.48	662878.65	2998299.67
102	63+120	662869.14	2998269.86	662866.71	2998281.61	662864.27	2998293.37
103	63+140	662845.32	2998268.24	662846.85	2998280.14	662848.39	2998292.06
104	63+160	662823.92	2998273.11	662827.39	2998284.59	662830.86	2998296.08
105	63+180	662804.78	2998278.89	662808.25	2998290.38	662811.72	2998301.87
106	63+200	662786.67	2998284.11	662789.02	2998295.88	662791.38	2998307.65
107	63+220	662770.82	2998285.16	662769.15	2998297.05	662767.47	2998308.93
108	63+240	662754.31	2998280.75	662749.88	2998291.91	662745.46	2998303.06

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
109	63+260	662735.78	2998273.34	662731.32	2998284.48	662726.85	2998295.62
110	63+280	662717.61	2998265.99	662712.78	2998276.97	662707.95	2998287.96
111	63+300	662702.12	2998257.99	662695.09	2998267.71	662688.05	2998277.43
112	63+320	662688.56	2998246.51	662679.87	2998254.79	662671.18	2998263.06
113	63+340	662674.80	2998231.90	662666.16	2998240.23	662657.52	2998248.55
114	63+360	662657.44	2998216.78	662651.20	2998227.03	662644.94	2998237.28
115	63+380	662635.60	2998207.26	662632.99	2998218.97	662630.38	2998230.68
116	63+400	662614.40	2998204.22	662613.23	2998216.00	662612.01	2998227.94
117	63+420	662594.56	2998201.99	662593.33	2998213.97	662592.12	2998225.91
118	63+440	662574.66	2998200.00	662573.44	2998211.94	662572.22	2998223.87
119	63+460	662554.76	2998197.97	662553.54	2998209.90	662552.32	2998221.84
120	63+480	662534.86	2998195.93	662533.65	2998207.87	662532.43	2998219.81
121	63+500	662514.97	2998193.90	662513.75	2998205.84	662512.53	2998217.78
122	63+520	662498.78	2998191.70	662494.04	2998202.78	662489.31	2998213.81
123	63+540	662493.06	2998186.06	662481.25	2998188.47	662469.50	2998190.87
124	63+560	662494.11	2998178.26	662485.52	2998169.73	662477.01	2998161.28
125	63+580	662501.71	2998174.95	662503.52	2998163.07	662504.94	2998153.81
126	63+600	662519.39	2998179.68	662522.83	2998168.19	662525.17	2998160.36
127	63+620	662538.56	2998185.41	662541.99	2998173.92	662544.62	2998165.13
128	63+640	662557.72	2998191.15	662561.16	2998179.65	662564.59	2998168.15
129	63+660	662576.88	2998196.88	662580.32	2998185.38	662583.76	2998173.88
130	63+680	662596.15	2998202.25	662599.48	2998191.11	662602.92	2998179.61
131	63+700	662619.47	2998204.84	662618.95	2998195.26	662618.28	2998183.27
132	63+720	662645.95	2998190.85	662635.32	2998185.28	662624.63	2998179.69
133	63+740	662646.56	2998160.20	662636.11	2998166.09	662625.58	2998172.03
134	63+760	662621.87	2998143.02	662620.49	2998154.94	662619.12	2998166.87
135	63+780	662600.17	2998142.87	662600.52	2998154.86	662600.86	2998166.86
136	63+800	662580.18	2998143.44	662580.52	2998155.43	662580.87	2998167.43
137	63+820	662560.55	2998143.95	662560.53	2998155.95	662560.45	2998167.40
138	63+840	662543.53	2998142.48	662540.66	2998154.13	662538.28	2998164.02
139	63+860	662526.01	2998136.79	662521.66	2998147.97	662517.78	2998157.94
140	63+880	662507.37	2998129.53	662503.02	2998140.72	662498.75	2998151.81
141	63+900	662486.85	2998122.25	662484.21	2998133.96	662481.58	2998145.66
142	63+920	662460.90	2998122.45	662464.42	2998133.92	662467.94	2998145.43
143	63+940	662438.99	2998134.27	662446.94	2998143.26	662454.89	2998152.25
144	63+960	662424.00	2998147.80	662432.10	2998156.66	662440.19	2998165.52

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
145	63+980	662408.50	2998162.74	662417.66	2998170.49	662426.82	2998178.24
146	64+000	662395.96	2998184.67	662407.60	2998187.57	662419.26	2998190.48
147	64+020	662395.13	2998210.38	662406.74	2998207.35	662418.37	2998204.30
148	64+040	662406.37	2998233.03	662415.42	2998225.14	662424.46	2998217.26
149	64+060	662421.83	2998248.09	662429.74	2998239.07	662437.65	2998230.05
150	64+080	662436.86	2998261.28	662444.78	2998252.25	662452.69	2998243.23
151	64+100	662451.33	2998274.08	662459.74	2998265.52	662468.15	2998256.96
152	64+120	662460.61	2998286.20	662471.64	2998281.45	662482.65	2998276.69
153	64+140	662464.48	2998300.80	662476.48	2998300.71	662488.48	2998300.62
154	64+160	662462.31	2998315.88	662473.44	2998320.34	662484.58	2998324.81
155	64+180	662454.21	2998333.03	662464.93	2998338.43	662475.64	2998343.82
156	64+200	662445.25	2998353.27	662456.76	2998356.66	662468.27	2998360.05
157	64+220	662443.28	2998378.84	662455.03	2998376.39	662466.79	2998373.93
158	64+240	662453.76	2998402.34	662462.89	2998394.55	662472.03	2998386.75
159	64+260	662473.91	2998417.84	662478.48	2998406.74	662483.05	2998395.65
160	64+280	662494.86	2998424.24	662497.58	2998412.55	662500.31	2998400.86
161	64+300	662513.99	2998428.72	662517.05	2998417.12	662520.11	2998405.52
162	64+320	662528.67	2998434.41	662535.51	2998424.55	662542.36	2998414.70
163	64+340	662539.71	2998444.89	662549.79	2998438.37	662559.86	2998431.85
164	64+360	662546.57	2998460.15	662558.01	2998456.51	662569.44	2998452.87
165	64+380	662552.50	2998478.92	662564.03	2998475.58	662575.55	2998472.25
166	64+400	662556.89	2998496.47	662568.80	2998494.99	662580.71	2998493.51
167	64+420	662557.43	2998513.86	662569.39	2998514.94	662581.34	2998516.02
168	64+440	662555.43	2998533.49	662567.36	2998534.83	662579.28	2998536.18
169	64+460	662553.38	2998554.46	662565.37	2998554.73	662577.37	2998555.00
170	64+480	662556.15	2998578.15	662567.58	2998574.51	662579.02	2998570.87
171	64+500	662566.30	2998599.43	662576.11	2998592.51	662585.91	2998585.59
172	64+520	662578.57	2998615.80	662588.10	2998608.51	662597.63	2998601.22
173	64+540	662590.72	2998631.69	662600.25	2998624.40	662609.78	2998617.11
174	64+560	662602.87	2998647.57	662612.40	2998640.28	662621.93	2998632.99
175	64+580	662615.03	2998663.46	662624.56	2998656.17	662634.09	2998648.87
176	64+600	662627.66	2998679.69	662636.83	2998671.95	662646.00	2998664.21
177	64+620	662642.91	2998695.35	662650.76	2998686.27	662658.62	2998677.20
178	64+640	662658.16	2998708.43	662665.94	2998699.30	662673.72	2998690.17
179	64+660	662672.71	2998721.01	662681.06	2998712.39	662689.41	2998703.77
180	64+680	662683.87	2998734.00	662694.00	2998727.57	662704.14	2998721.14

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
181	64+700	662693.36	2998750.67	662703.91	2998744.94	662714.45	2998739.21
182	64+720	662703.20	2998768.66	662713.49	2998762.49	662723.79	2998756.33
183	64+740	662720.47	2998787.72	662726.55	2998777.37	662732.63	2998767.00
184	64+760	662745.17	2998795.23	662745.40	2998783.23	662745.63	2998771.23
185	64+780	662765.80	2998794.80	662765.39	2998782.81	662764.98	2998770.82
186	64+800	662784.71	2998794.30	662785.38	2998782.32	662786.05	2998770.34
187	64+820	662797.46	2998797.39	662804.38	2998787.58	662811.31	2998777.78
188	64+840	662804.82	2998806.50	662816.34	2998803.14	662827.86	2998799.78
189	64+860	662807.61	2998823.96	662819.56	2998822.83	662831.50	2998821.70
190	64+880	662809.63	2998844.37	662821.52	2998842.73	662833.40	2998841.10
191	64+900	662815.69	2998866.87	662826.65	2998861.98	662837.61	2998857.09
192	64+920	662826.32	2998885.58	662836.57	2998879.33	662846.82	2998873.09
193	64+940	662832.28	2998898.83	662844.22	2998897.64	662856.16	2998896.45
194	64+960	662830.86	2998911.72	662841.57	2998917.18	662852.26	2998922.63
195	64+980	662822.71	2998921.79	662828.75	2998932.17	662834.80	2998942.54
196	65+000	662809.28	2998926.08	662809.89	2998938.06	662810.50	2998950.05
197	65+020	662789.50	2998926.86	662789.91	2998938.85	662790.31	2998950.84
198	65+040	662769.51	2998927.53	662769.92	2998939.53	662770.32	2998951.52
199	65+060	662749.33	2998928.24	662749.93	2998940.23	662750.53	2998952.21
200	65+080	662727.67	2998930.61	662730.06	2998942.36	662732.46	2998954.12
201	65+100	662706.50	2998936.49	662710.81	2998947.69	662715.12	2998958.89
202	65+120	662686.62	2998945.79	662692.71	2998956.13	662698.79	2998966.48
203	65+140	662669.11	2998957.30	662676.00	2998967.12	662682.90	2998976.94
204	65+160	662652.74	2998968.79	662659.63	2998978.61	662666.53	2998988.43
205	65+180	662636.37	2998980.28	662643.26	2998990.10	662650.16	2998999.92
206	65+200	662620.00	2998991.76	662626.89	2999001.59	662633.78	2999011.41
207	65+220	662603.63	2999003.25	662610.52	2999013.08	662617.41	2999022.90
208	65+240	662587.45	2999014.47	662594.09	2999024.47	662600.72	2999034.47
209	65+260	662571.35	2999024.29	662577.01	2999034.87	662582.66	2999045.46
210	65+280	662554.37	2999032.88	662559.16	2999043.89	662563.95	2999054.89
211	65+300	662536.47	2999040.25	662540.67	2999051.49	662544.87	2999062.73
212	65+320	662517.74	2999047.23	662521.93	2999058.47	662526.11	2999069.72
213	65+340	662499.00	2999054.20	662503.18	2999065.45	662507.36	2999076.69
214	65+360	662480.25	2999061.17	662484.44	2999072.42	662488.62	2999083.67
215	65+380	662461.51	2999068.16	662465.69	2999079.39	662469.87	2999090.64
216	65+400	662442.76	2999075.12	662446.95	2999086.37	662451.13	2999097.61

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
217	65+420	662424.02	2999082.09	662428.20	2999093.34	662432.38	2999104.59
218	65+440	662405.27	2999089.06	662409.46	2999100.31	662413.64	2999111.56
219	65+460	662386.53	2999096.04	662390.71	2999107.28	662394.89	2999118.53
220	65+480	662367.78	2999103.01	662371.97	2999114.26	662376.15	2999125.50
221	65+500	662349.11	2999109.95	662353.22	2999121.23	662357.33	2999132.50
222	65+520	662337.95	2999112.09	662333.77	2999123.36	662329.59	2999134.61
223	65+540	662332.08	2999106.23	662320.53	2999109.48	662308.98	2999112.73
224	65+560	662332.81	2999098.49	662323.78	2999090.58	662314.76	2999082.67
225	65+580	662343.53	2999093.48	662341.18	2999081.71	662338.83	2999069.95
226	65+600	662363.11	2999089.63	662360.80	2999077.86	662358.49	2999066.08
227	65+620	662382.74	2999085.78	662380.43	2999074.01	662378.12	2999062.23
228	65+640	662402.37	2999081.93	662400.05	2999070.15	662397.74	2999058.38
229	65+660	662421.99	2999078.08	662419.68	2999066.30	662417.37	2999054.53
230	65+680	662441.62	2999074.23	662439.31	2999062.45	662436.99	2999050.68
231	65+700	662464.24	2999067.13	662458.50	2999057.15	662452.50	2999046.75
232	65+720	662480.58	2999041.14	662468.58	2999040.86	662456.57	2999040.58
233	65+740	662468.13	2999013.55	662460.97	2999023.18	662453.80	2999032.83
234	65+760	662440.41	2999010.93	662442.04	2999019.24	662444.26	2999031.04
235	65+780	662420.50	2999013.95	662422.45	2999023.24	662424.91	2999034.99
236	65+800	662400.93	2999018.09	662402.87	2999027.35	662405.34	2999039.09
237	65+820	662381.40	2999022.08	662383.30	2999031.45	662385.68	2999043.21
238	65+840	662362.75	2999025.92	662363.61	2999034.92	662364.75	2999046.86
239	65+860	662343.81	2999024.74	662343.65	2999036.00	662343.48	2999048.00
240	65+880	662324.54	2999022.93	662323.69	2999034.90	662322.83	2999046.87
241	65+900	662304.59	2999021.51	662303.74	2999033.48	662302.88	2999045.45
242	65+920	662284.64	2999020.09	662283.79	2999032.06	662282.94	2999044.03
243	65+940	662271.79	2999017.79	662264.62	2999027.41	662257.44	2999037.03
244	65+960	662267.96	2999011.05	662255.98	2999010.32	662244.00	2999009.59
245	65+980	662271.40	2999003.99	662265.37	2998993.60	662259.35	2998983.22
246	66+000	662280.86	2999003.42	662284.60	2998992.01	662288.34	2998980.61
247	66+020	662299.07	2999010.21	662303.34	2998999.00	662307.61	2998987.79
248	66+040	662317.76	2999017.33	662322.03	2999006.12	662326.30	2998994.91
249	66+060	662338.02	2999024.02	662340.91	2999012.68	662344.11	2999000.09
250	66+080	662362.01	2999026.04	662360.76	2999014.19	662359.55	2999002.85
251	66+100	662382.45	2999021.84	662380.50	2999011.04	662378.68	2999001.04
252	66+120	662402.02	2999017.79	662400.18	2999007.46	662398.03	2998995.65

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
253	66+140	662421.65	2999013.76	662419.86	2999003.88	662417.71	2998992.07
254	66+160	662441.52	2999010.81	662439.53	2999000.30	662437.39	2998988.50
255	66+180	662461.36	2999008.53	662459.21	2998996.72	662457.06	2998984.92
256	66+200	662485.75	2998999.41	662477.90	2998990.33	662470.06	2998981.25
257	66+220	662497.14	2998971.12	662485.23	2998972.64	662473.33	2998974.16
258	66+240	662479.94	2998945.91	662474.57	2998956.64	662469.21	2998967.37
259	66+260	662450.92	2998945.08	662455.27	2998956.27	662459.62	2998967.45
260	66+280	662432.08	2998953.24	662436.92	2998964.22	662441.76	2998975.20
261	66+300	662413.78	2998961.30	662418.62	2998972.28	662423.45	2998983.26
262	66+320	662395.47	2998969.37	662400.31	2998980.35	662405.15	2998991.33
263	66+340	662377.37	2998977.32	662382.00	2998988.39	662386.42	2998998.95
264	66+360	662362.90	2998981.32	662362.77	2998993.32	662362.67	2999003.38
265	66+380	662349.08	2998978.34	662343.47	2998988.95	662338.12	2998998.92
266	66+400	662335.35	2998967.91	662327.51	2998977.00	662319.66	2998986.08
267	66+420	662319.59	2998954.55	662312.26	2998964.05	662304.94	2998973.55
268	66+440	662299.02	2998942.54	662295.14	2998953.89	662291.26	2998965.25
269	66+460	662274.99	2998938.73	662275.53	2998950.72	662276.06	2998962.71
270	66+480	662253.76	2998941.22	662255.68	2998953.07	662257.61	2998964.91
271	66+500	662234.02	2998944.43	662235.94	2998956.28	662237.87	2998968.12
272	66+520	662215.36	2998947.12	662216.15	2998959.09	662216.94	2998971.06
273	66+540	662199.02	2998946.02	662196.27	2998957.70	662193.51	2998969.38
274	66+560	662183.51	2998940.36	662177.58	2998950.79	662171.64	2998961.22
275	66+580	662170.28	2998930.60	662161.60	2998938.89	662152.91	2998947.17
276	66+600	662158.92	2998916.39	662149.11	2998923.30	662139.30	2998930.21
277	66+620	662147.41	2998900.04	662137.59	2998906.95	662127.78	2998913.86
278	66+640	662134.59	2998882.83	662125.69	2998890.88	662116.79	2998898.94
279	66+660	662117.88	2998867.69	662110.93	2998877.47	662103.98	2998887.25
280	66+680	662099.71	2998856.75	662093.78	2998867.18	662087.86	2998877.62
281	66+700	662082.64	2998847.01	662076.41	2998857.27	662070.19	2998867.53
282	66+720	662069.62	2998837.01	662060.69	2998845.03	662051.77	2998853.06
283	66+740	662059.92	2998822.86	662049.39	2998828.61	662038.85	2998834.36
284	66+760	662050.36	2998805.31	662039.82	2998811.05	662029.28	2998816.79
285	66+780	662039.90	2998786.95	662029.95	2998793.66	662020.00	2998800.37
286	66+800	662023.64	2998769.36	662016.49	2998779.00	662009.33	2998788.63
287	66+820	662002.84	2998758.14	661998.99	2998769.51	661995.14	2998780.87
288	66+840	661983.16	2998752.22	661979.84	2998763.75	661976.51	2998775.28

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
289	66+860	661963.94	2998746.68	661960.62	2998758.21	661957.30	2998769.74
290	66+880	661944.73	2998741.14	661941.40	2998752.67	661938.08	2998764.20
291	66+900	661925.51	2998735.60	661922.19	2998747.13	661918.86	2998758.66
292	66+920	661906.29	2998730.05	661902.97	2998741.59	661899.64	2998753.12
293	66+940	661887.08	2998724.51	661883.75	2998736.04	661880.43	2998747.58
294	66+960	661867.86	2998718.97	661864.53	2998730.50	661861.21	2998742.03
295	66+980	661848.64	2998713.43	661845.32	2998724.96	661841.99	2998736.49
296	67+000	661829.42	2998707.89	661826.10	2998719.42	661822.78	2998730.95
297	67+020	661810.21	2998702.35	661806.88	2998713.88	661803.56	2998725.41
298	67+040	661790.99	2998696.81	661787.67	2998708.34	661784.34	2998719.87
299	67+060	661772.05	2998691.31	661768.46	2998702.76	661764.87	2998714.21
300	67+080	661754.45	2998685.12	661749.61	2998696.10	661744.77	2998707.09
301	67+100	661737.46	2998676.98	661731.59	2998687.45	661725.72	2998697.92
302	67+120	661720.16	2998667.17	661714.20	2998677.58	661708.23	2998687.99
303	67+140	661702.81	2998657.22	661696.84	2998667.64	661690.88	2998678.05
304	67+160	661685.46	2998647.28	661679.49	2998657.69	661673.53	2998668.10
305	67+180	661668.10	2998637.34	661662.14	2998647.75	661656.17	2998658.16
306	67+200	661650.75	2998627.39	661644.79	2998637.80	661638.82	2998648.22
307	67+220	661633.40	2998617.45	661627.43	2998627.86	661621.47	2998638.27
308	67+240	661616.05	2998607.51	661610.08	2998617.92	661604.11	2998628.33
309	67+260	661599.32	2998597.76	661592.81	2998607.84	661586.29	2998617.92
310	67+280	661587.24	2998587.33	661577.81	2998594.75	661568.37	2998602.17
311	67+300	661579.21	2998573.59	661567.87	2998577.51	661556.53	2998581.43
312	67+320	661575.80	2998556.96	661563.85	2998557.99	661551.89	2998559.02
313	67+340	661574.16	2998537.08	661562.20	2998538.06	661550.24	2998539.03
314	67+360	661572.39	2998516.67	661560.48	2998518.13	661548.57	2998519.59
315	67+380	661566.60	2998493.94	661555.63	2998498.81	661544.66	2998503.67
316	67+400	661554.20	2998473.87	661545.22	2998481.83	661536.24	2998489.78
317	67+420	661536.30	2998458.50	661530.15	2998468.80	661524.00	2998479.10
318	67+440	661514.59	2998449.26	661511.85	2998460.95	661509.11	2998472.63
319	67+460	661491.10	2998447.04	661492.03	2998459.01	661492.96	2998470.97
320	67+480	661468.05	2998452.04	661472.55	2998463.17	661477.06	2998474.29
321	67+500	661447.58	2998463.80	661455.25	2998473.03	661462.93	2998482.25
322	67+520	661432.18	2998479.27	661441.18	2998487.20	661450.19	2998495.13
323	67+540	661418.96	2998494.29	661427.97	2998502.21	661436.98	2998510.14
324	67+560	661406.26	2998508.43	661414.59	2998517.07	661422.91	2998525.71

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
325	67+580	661393.38	2998518.08	661398.57	2998528.89	661403.77	2998539.71
326	67+600	661378.16	2998522.94	661379.59	2998534.85	661381.01	2998546.77
327	67+620	661361.04	2998522.70	661359.65	2998534.62	661358.26	2998546.54
328	67+640	661341.22	2998520.33	661339.79	2998532.24	661338.36	2998544.16
329	67+660	661321.36	2998517.95	661319.93	2998529.86	661318.50	2998541.78
330	67+680	661301.50	2998515.57	661300.07	2998527.48	661298.65	2998539.40
331	67+700	661281.64	2998513.19	661280.22	2998525.10	661278.79	2998537.02
332	67+720	661263.29	2998510.60	661260.43	2998522.26	661257.57	2998533.91
333	67+740	661247.16	2998504.96	661241.62	2998515.61	661236.08	2998526.25
334	67+760	661232.94	2998495.53	661225.02	2998504.54	661217.11	2998513.56
335	67+780	661218.78	2998482.20	661210.46	2998490.84	661202.13	2998499.48
336	67+800	661204.39	2998468.32	661196.06	2998476.96	661187.73	2998485.60
337	67+820	661189.99	2998454.44	661181.66	2998463.08	661173.33	2998471.72
338	67+840	661175.59	2998440.56	661167.26	2998449.20	661158.93	2998457.84
339	67+860	661161.15	2998426.65	661152.86	2998435.32	661144.57	2998444.00
340	67+880	661143.37	2998412.33	661137.39	2998422.73	661131.40	2998433.13
341	67+900	661121.14	2998403.61	661118.89	2998415.39	661116.63	2998427.18
342	67+920	661097.28	2998402.64	661099.01	2998414.51	661100.73	2998426.39
343	67+940	661074.42	2998409.53	661079.93	2998420.19	661085.45	2998430.85
344	67+960	661055.10	2998423.49	661063.76	2998431.79	661072.43	2998440.09
345	67+980	661041.61	2998441.83	661051.98	2998447.87	661062.34	2998453.92
346	68+000	661031.87	2998458.06	661041.66	2998465.00	661051.45	2998471.94
347	68+020	661020.92	2998469.59	661027.88	2998479.36	661034.85	2998489.14
348	68+040	661006.79	2998476.93	661010.17	2998488.44	661013.56	2998499.96
349	68+060	660991.04	2998479.24	660990.47	2998491.22	660989.90	2998503.21
350	68+080	660975.40	2998476.26	660970.94	2998487.40	660966.48	2998498.54
351	68+100	660961.52	2998468.28	660953.73	2998477.41	660945.94	2998486.53
352	68+120	660947.72	2998455.11	660939.26	2998463.62	660930.80	2998472.13
353	68+140	660933.53	2998441.01	660925.07	2998449.52	660916.61	2998458.03
354	68+160	660919.35	2998426.91	660910.89	2998435.42	660902.43	2998443.93
355	68+180	660905.16	2998412.81	660896.70	2998421.32	660888.24	2998429.83
356	68+200	660890.98	2998398.71	660882.52	2998407.22	660874.06	2998415.73
357	68+220	660876.79	2998384.61	660868.33	2998393.12	660859.87	2998401.63
358	68+240	660862.61	2998370.51	660854.15	2998379.02	660845.69	2998387.53
359	68+260	660848.42	2998356.41	660839.96	2998364.92	660831.50	2998373.43
360	68+280	660835.49	2998342.94	660826.15	2998350.47	660816.80	2998358.00

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
361	68+300	660825.88	2998328.49	660815.14	2998333.83	660804.39	2998339.17
362	68+320	660818.77	2998311.22	660807.51	2998315.35	660796.25	2998319.49
363	68+340	660811.88	2998292.44	660800.61	2998296.58	660789.35	2998300.72
364	68+360	660804.98	2998273.67	660793.72	2998277.81	660782.45	2998281.94
365	68+380	660798.09	2998254.90	660786.82	2998259.03	660775.56	2998263.17
366	68+400	660791.19	2998236.12	660779.93	2998240.26	660768.66	2998244.40
367	68+420	660783.84	2998216.70	660772.87	2998221.55	660761.89	2998226.40
368	68+440	660769.56	2998196.21	660761.63	2998205.20	660753.69	2998214.20
369	68+460	660747.81	2998183.67	660744.51	2998195.21	660741.21	2998206.75
370	68+480	660723.21	2998181.60	660724.75	2998193.51	660726.28	2998205.41
371	68+500	660701.79	2998187.38	660705.48	2998198.79	660709.18	2998210.21
372	68+520	660682.99	2998193.43	660686.45	2998204.92	660689.90	2998216.41
373	68+540	660669.31	2998195.18	660666.79	2998206.91	660664.28	2998218.64
374	68+560	660659.12	2998189.30	660649.89	2998196.96	660640.66	2998204.63
375	68+580	660654.53	2998177.61	660642.58	2998178.71	660630.63	2998179.82
376	68+600	660653.52	2998158.22	660641.53	2998158.74	660629.54	2998159.27
377	68+620	660652.64	2998138.24	660640.66	2998138.76	660628.67	2998139.29
378	68+640	660651.77	2998118.25	660639.78	2998118.78	660627.79	2998119.31
379	68+660	660650.89	2998098.27	660638.91	2998098.80	660626.94	2998099.32
380	68+680	660650.02	2998078.29	660638.03	2998078.82	660627.52	2998079.31
381	68+700	660649.14	2998058.31	660637.15	2998058.84	660625.17	2998059.36
382	68+720	660648.27	2998038.33	660636.28	2998038.86	660624.29	2998039.38
383	68+740	660647.39	2998018.35	660635.40	2998018.88	660623.42	2998019.40
384	68+760	660646.52	2997998.37	660634.53	2997998.89	660622.54	2997999.42
385	68+780	660645.08	2997976.78	660633.28	2997978.95	660621.48	2997981.12
386	68+800	660627.92	2997952.32	660622.52	2997963.04	660617.12	2997973.76
387	68+820	660598.11	2997952.04	660603.23	2997962.90	660608.34	2997973.75
388	68+840	660579.82	2997976.29	660591.67	2997978.17	660603.52	2997980.04
389	68+860	660583.32	2998001.01	660594.87	2997997.75	660606.42	2997994.49
390	68+880	660588.76	2998020.25	660600.31	2998016.99	660611.85	2998013.73
391	68+900	660594.19	2998039.50	660605.74	2998036.24	660617.29	2998032.98
392	68+920	660599.62	2998058.75	660611.17	2998055.49	660622.72	2998052.23
393	68+940	660604.36	2998076.87	660616.19	2998074.84	660626.89	2998072.98
394	68+960	660604.44	2998091.41	660615.99	2998094.66	660627.14	2998097.73
395	68+980	660597.77	2998104.02	660606.64	2998112.10	660615.51	2998120.18
396	69+000	660584.25	2998116.32	660591.89	2998125.57	660599.53	2998134.82

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
397	69+020	660568.83	2998129.06	660576.47	2998138.31	660584.11	2998147.56
398	69+040	660553.41	2998141.79	660561.05	2998151.05	660568.69	2998160.30
399	69+060	660537.99	2998154.53	660545.63	2998163.78	660553.27	2998173.03
400	69+080	660522.57	2998167.27	660530.21	2998176.52	660537.85	2998185.77
401	69+100	660506.90	2998180.46	660514.91	2998189.40	660522.92	2998198.33
402	69+120	660491.70	2998196.04	660500.94	2998203.69	660510.18	2998211.35
403	69+140	660479.02	2998212.63	660488.80	2998219.58	660498.59	2998226.52
404	69+160	660467.45	2998228.95	660477.24	2998235.89	660487.03	2998242.83
405	69+180	660455.88	2998245.27	660465.67	2998252.21	660475.46	2998259.15
406	69+200	660444.32	2998261.59	660454.11	2998268.53	660463.90	2998275.47
407	69+220	660432.75	2998277.91	660442.55	2998284.85	660452.34	2998291.78
408	69+240	660421.19	2998294.22	660430.98	2998301.16	660440.77	2998308.10
409	69+260	660409.66	2998310.49	660419.41	2998317.48	660429.17	2998324.47
410	69+280	660398.91	2998322.95	660406.25	2998332.44	660413.60	2998341.93
411	69+300	660385.58	2998330.02	660388.65	2998341.62	660391.72	2998353.22
412	69+320	660370.31	2998331.34	660368.86	2998343.25	660367.40	2998355.16
413	69+340	660353.08	2998326.85	660349.51	2998338.31	660345.93	2998349.76
414	69+360	660333.99	2998320.89	660330.42	2998332.35	660326.84	2998343.80
415	69+380	660314.90	2998314.93	660311.33	2998326.39	660307.75	2998337.84
416	69+400	660295.81	2998308.97	660292.23	2998320.43	660288.66	2998331.88
417	69+420	660276.72	2998303.01	660273.14	2998314.47	660269.57	2998325.92
418	69+440	660257.63	2998297.06	660254.05	2998308.51	660250.48	2998319.96
419	69+460	660238.54	2998291.10	660234.96	2998302.55	660231.38	2998314.01
420	69+480	660219.44	2998285.14	660215.87	2998296.59	660212.29	2998308.05
421	69+500	660199.86	2998279.16	660196.74	2998290.75	660193.63	2998302.34
422	69+520	660177.02	2998275.56	660177.06	2998287.56	660177.10	2998299.56
423	69+540	660153.40	2998279.25	660157.39	2998290.57	660161.38	2998301.89
424	69+560	660132.96	2998289.40	660139.53	2998299.44	660146.10	2998309.48
425	69+580	660116.23	2998300.52	660122.87	2998310.51	660129.52	2998320.50
426	69+600	660101.69	2998308.51	660105.32	2998319.95	660108.95	2998331.39
427	69+620	660086.74	2998310.54	660085.63	2998322.49	660084.51	2998334.44
428	69+640	660071.84	2998306.47	660066.48	2998317.21	660061.11	2998327.94
429	69+660	660054.85	2998297.13	660048.95	2998307.58	660043.05	2998318.03
430	69+680	660036.45	2998287.19	660031.37	2998298.06	660026.29	2998308.93
431	69+700	660014.99	2998280.09	660012.41	2998291.81	660009.84	2998303.53
432	69+720	659995.34	2998275.88	659992.86	2998287.62	659990.37	2998299.36

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
433	69+740	659977.01	2998271.49	659973.42	2998282.94	659969.82	2998294.39
434	69+760	659960.44	2998264.91	659954.87	2998275.54	659949.30	2998286.17
435	69+780	659944.19	2998255.34	659937.64	2998265.40	659931.10	2998275.45
436	69+800	659927.45	2998244.42	659920.89	2998254.47	659914.34	2998264.52
437	69+820	659910.50	2998233.41	659904.12	2998243.57	659897.74	2998253.74
438	69+840	659891.82	2998222.67	659886.81	2998233.58	659881.81	2998244.49
439	69+860	659870.97	2998215.14	659868.04	2998226.77	659865.12	2998238.41
440	69+880	659850.57	2998210.93	659848.46	2998222.74	659846.35	2998234.56
441	69+900	659830.88	2998207.41	659828.77	2998219.22	659826.66	2998231.03
442	69+920	659811.20	2998203.89	659809.08	2998215.70	659806.97	2998227.51
443	69+940	659791.51	2998200.36	659789.40	2998212.18	659787.28	2998223.99
444	69+960	659772.03	2998196.84	659769.72	2998208.62	659767.40	2998220.39
445	69+980	659753.65	2998192.74	659750.21	2998204.24	659746.77	2998215.73
446	70+000	659736.74	2998186.62	659731.45	2998197.39	659726.15	2998208.16
447	70+020	659720.76	2998177.70	659714.02	2998187.63	659707.28	2998197.56
448	70+040	659704.85	2998166.44	659697.69	2998176.07	659690.54	2998185.71
449	70+060	659688.81	2998154.51	659681.65	2998164.14	659674.49	2998173.76
450	70+080	659672.77	2998142.57	659665.60	2998152.20	659658.44	2998161.82
451	70+100	659656.85	2998130.70	659649.57	2998140.24	659642.29	2998149.78
452	70+120	659642.05	2998118.76	659634.02	2998127.68	659625.99	2998136.60
453	70+140	659629.52	2998105.52	659620.27	2998113.17	659611.03	2998120.82
454	70+160	659616.98	2998090.14	659607.64	2998097.67	659598.30	2998105.20
455	70+180	659604.36	2998074.51	659595.07	2998082.11	659585.78	2998089.70
456	70+200	659586.56	2998058.04	659580.61	2998068.47	659574.67	2998078.89
457	70+220	659561.90	2998050.75	659561.69	2998062.75	659561.47	2998074.75
458	70+240	659536.77	2998056.18	659542.34	2998066.81	659547.90	2998077.44
459	70+260	659517.40	2998072.86	659527.29	2998079.65	659537.19	2998086.44
460	70+280	659506.77	2998091.29	659517.34	2998096.97	659527.91	2998102.65
461	70+300	659497.47	2998106.83	659507.03	2998114.09	659516.59	2998121.35
462	70+320	659485.79	2998119.12	659493.26	2998128.51	659500.72	2998137.91
463	70+340	659471.44	2998128.13	659476.35	2998139.08	659481.25	2998150.03
464	70+360	659455.09	2998133.39	659457.35	2998145.17	659459.61	2998156.96
465	70+380	659435.74	2998136.60	659437.62	2998148.45	659439.51	2998160.30
466	70+400	659415.99	2998139.74	659417.87	2998151.59	659419.76	2998163.44
467	70+420	659396.10	2998142.92	659398.12	2998154.75	659400.15	2998166.58
468	70+440	659375.51	2998147.05	659378.52	2998158.67	659381.52	2998170.29

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
469	70+460	659354.95	2998154.16	659359.63	2998165.21	659364.32	2998176.26
470	70+480	659336.46	2998162.15	659341.27	2998173.14	659346.09	2998184.13
471	70+500	659318.14	2998170.17	659322.95	2998181.16	659327.76	2998192.15
472	70+520	659299.82	2998178.19	659304.63	2998189.18	659309.44	2998200.17
473	70+540	659281.50	2998186.21	659286.31	2998197.20	659291.12	2998208.19
474	70+560	659263.18	2998194.23	659267.99	2998205.22	659272.80	2998216.21
475	70+580	659244.85	2998202.25	659249.67	2998213.24	659254.48	2998224.23
476	70+600	659228.56	2998208.12	659230.85	2998219.90	659233.15	2998231.68
477	70+620	659211.74	2998209.02	659210.96	2998220.99	659210.17	2998232.96
478	70+640	659191.87	2998207.61	659191.01	2998219.57	659190.14	2998231.54
479	70+660	659171.92	2998206.16	659171.06	2998218.13	659170.19	2998230.10
480	70+680	659152.02	2998204.72	659151.11	2998216.68	659150.20	2998228.65
481	70+700	659132.60	2998203.01	659131.19	2998214.92	659129.78	2998226.84
482	70+720	659114.02	2998200.05	659111.45	2998211.77	659108.88	2998223.49
483	70+740	659095.61	2998195.48	659092.05	2998206.93	659088.48	2998218.39
484	70+760	659077.43	2998189.30	659073.12	2998200.49	659068.80	2998211.69
485	70+780	659058.90	2998182.05	659054.49	2998193.22	659050.08	2998204.38
486	70+800	659040.29	2998174.71	659035.89	2998185.87	659031.48	2998197.03
487	70+820	659021.69	2998167.37	659017.28	2998178.53	659012.88	2998189.69
488	70+840	659002.84	2998159.97	658998.67	2998171.22	658994.49	2998182.47
489	70+860	658982.59	2998153.29	658979.69	2998164.93	658976.79	2998176.58
490	70+880	658960.84	2998149.62	658960.00	2998161.59	658959.17	2998173.56
491	70+900	658940.30	2998148.66	658940.03	2998160.66	658939.76	2998172.65
492	70+920	658920.30	2998148.22	658920.03	2998160.21	658919.77	2998172.21
493	70+940	658901.41	2998147.30	658900.06	2998159.23	658898.72	2998171.15
494	70+960	658884.82	2998143.57	658880.61	2998154.81	658876.40	2998166.05
495	70+980	658869.71	2998135.90	658862.85	2998145.75	658855.99	2998155.60
496	71+000	658857.01	2998124.83	658847.86	2998132.59	658838.70	2998140.35
497	71+020	658846.07	2998109.96	658836.01	2998116.50	658825.95	2998123.04
498	71+040	658835.19	2998093.14	658825.15	2998099.71	658815.10	2998106.28
499	71+060	658824.24	2998076.40	658814.20	2998082.97	658804.16	2998089.54
500	71+080	658812.14	2998059.00	658802.81	2998066.54	658793.48	2998074.09
501	71+100	658796.64	2998042.83	658789.03	2998052.10	658781.41	2998061.38
502	71+120	658777.79	2998030.33	658772.41	2998041.06	658767.03	2998051.78
503	71+140	658756.65	2998022.30	658753.77	2998033.95	658750.88	2998045.59
504	71+160	658734.26	2998019.12	658734.01	2998031.12	658733.76	2998043.12

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
505	71+180	658711.72	2998020.96	658714.12	2998032.72	658716.52	2998044.47
506	71+200	658690.14	2998027.72	658695.07	2998038.66	658700.01	2998049.60
507	71+220	658670.67	2998038.98	658677.79	2998048.63	658684.91	2998058.29
508	71+240	658654.45	2998052.14	658662.27	2998061.24	658670.09	2998070.35
509	71+260	658639.28	2998065.16	658647.09	2998074.27	658654.91	2998083.37
510	71+280	658624.10	2998078.19	658631.92	2998087.30	658639.73	2998096.40
511	71+300	658608.93	2998091.22	658616.74	2998100.32	658624.56	2998109.43
512	71+320	658593.97	2998103.91	658601.50	2998113.26	658609.02	2998122.62
513	71+340	658579.09	2998114.62	658585.26	2998124.92	658591.43	2998135.21
514	71+360	658562.78	2998123.56	658567.72	2998134.49	658572.65	2998145.43
515	71+380	658544.71	2998131.37	658549.36	2998142.43	658554.01	2998153.49
516	71+400	658526.27	2998139.12	658530.92	2998150.18	658535.58	2998161.25
517	71+420	658507.84	2998146.88	658512.49	2998157.94	658517.14	2998169.00
518	71+440	658489.57	2998154.53	658494.04	2998165.66	658498.51	2998176.80
519	71+460	658473.01	2998159.63	658474.95	2998171.48	658476.88	2998183.32
520	71+480	658456.04	2998160.55	658455.03	2998172.51	658454.02	2998184.47
521	71+500	658439.21	2998157.24	658435.46	2998168.64	658431.71	2998180.04
522	71+520	658420.42	2998150.89	658416.52	2998162.23	658412.61	2998173.58
523	71+540	658401.51	2998144.38	658397.60	2998155.73	658393.70	2998167.07
524	71+560	658382.60	2998137.87	658378.69	2998149.22	658374.79	2998160.56
525	71+580	658361.48	2998131.62	658359.56	2998143.47	658357.65	2998155.31
526	71+600	658334.97	2998135.02	658340.01	2998145.91	658345.04	2998156.80
527	71+620	658314.60	2998152.19	658324.82	2998158.48	658335.04	2998164.76
528	71+640	658306.93	2998177.29	658318.93	2998177.29	658330.93	2998177.30
529	71+660	658312.48	2998201.31	658323.51	2998196.58	658334.53	2998191.85
530	71+680	658320.48	2998219.71	658331.48	2998214.92	658342.48	2998210.13
531	71+700	658328.46	2998238.05	658339.47	2998233.26	658350.47	2998228.46
532	71+720	658336.45	2998256.38	658347.45	2998251.59	658358.45	2998246.80
533	71+740	658344.44	2998274.72	658355.44	2998269.93	658366.44	2998265.14
534	71+760	658352.42	2998293.06	658363.43	2998288.26	658374.43	2998283.47
535	71+780	658360.41	2998311.39	658371.41	2998306.60	658382.41	2998301.81
536	71+800	658368.40	2998329.73	658379.40	2998324.94	658390.40	2998320.15
537	71+820	658376.16	2998347.75	658387.30	2998343.31	658398.45	2998338.87
538	71+840	658382.33	2998365.20	658393.93	2998362.16	658405.54	2998359.11
539	71+860	658385.51	2998382.66	658397.48	2998381.81	658409.45	2998380.97
540	71+880	658385.91	2998401.20	658397.89	2998401.79	658409.88	2998402.38

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
541	71+900	658384.58	2998420.86	658396.55	2998421.74	658408.52	2998422.63
542	71+920	658383.11	2998440.80	658395.07	2998441.69	658407.04	2998442.57
543	71+940	658381.63	2998460.75	658393.59	2998461.63	658405.56	2998462.52
544	71+960	658380.15	2998480.69	658392.12	2998481.58	658404.08	2998482.47
545	71+980	658378.95	2998501.48	658390.95	2998501.54	658402.95	2998501.60
546	72+000	658380.03	2998523.40	658391.88	2998521.50	658403.72	2998519.60
547	72+020	658383.96	2998543.86	658395.65	2998541.13	658407.33	2998538.40
548	72+040	658388.55	2998563.35	658400.22	2998560.60	658411.90	2998557.85
549	72+060	658393.13	2998582.82	658404.81	2998580.07	658416.49	2998577.31
550	72+080	658397.72	2998602.29	658409.40	2998599.53	658421.08	2998596.78
551	72+100	658402.38	2998621.90	658414.02	2998618.99	658425.66	2998616.08
552	72+120	658408.07	2998642.26	658419.38	2998638.25	658430.69	2998634.25
553	72+140	658416.05	2998662.10	658426.82	2998656.80	658437.58	2998651.51
554	72+160	658425.42	2998680.29	658435.98	2998674.58	658446.53	2998668.87
555	72+180	658434.94	2998697.88	658445.50	2998692.17	658456.05	2998686.46
556	72+200	658444.46	2998715.47	658455.01	2998709.76	658465.57	2998704.05
557	72+220	658453.98	2998733.06	658464.53	2998727.35	658475.09	2998721.64
558	72+240	658463.50	2998750.65	658474.05	2998744.94	658484.60	2998739.23
559	72+260	658473.02	2998768.24	658483.57	2998762.53	658494.12	2998756.82
560	72+280	658482.13	2998785.41	658492.94	2998780.19	658503.75	2998774.98
561	72+300	658487.84	2998801.30	658499.61	2998798.98	658511.38	2998796.66
562	72+320	658488.42	2998817.92	658500.38	2998818.90	658512.34	2998819.89
563	72+340	658486.30	2998837.39	658498.21	2998838.78	658510.13	2998840.18
564	72+360	658483.97	2998857.25	658495.89	2998858.65	658507.81	2998860.04
565	72+380	658481.65	2998877.12	658493.57	2998878.51	658505.48	2998879.91
566	72+400	658479.32	2998896.98	658491.24	2998898.38	658503.16	2998899.77
567	72+420	658477.00	2998916.85	658488.92	2998918.24	658500.84	2998919.64
568	72+440	658474.32	2998935.39	658486.03	2998938.02	658497.74	2998940.66
569	72+460	658468.66	2998950.61	658479.03	2998956.66	658489.39	2998962.70
570	72+480	658458.19	2998963.64	658466.58	2998972.22	658474.96	2998980.81
571	72+500	658443.82	2998976.91	658451.89	2998985.80	658459.96	2998994.68
572	72+520	658428.85	2998990.61	658437.13	2998999.29	658445.41	2999007.98
573	72+540	658413.95	2999005.84	658423.13	2999013.56	658432.31	2999021.29
574	72+560	658401.02	2999022.64	658410.93	2999029.40	658420.85	2999036.16
575	72+580	658389.78	2999039.34	658399.77	2999045.99	658409.76	2999052.64
576	72+600	658378.74	2999055.91	658388.68	2999062.63	658398.62	2999069.35

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
577	72+620	658367.83	2999071.09	658376.98	2999078.84	658386.14	2999086.60
578	72+640	658355.11	2999084.94	658363.46	2999093.56	658371.80	2999102.18
579	72+660	658340.74	2999098.76	658349.04	2999107.42	658357.35	2999116.08
580	72+680	658326.30	2999112.60	658334.61	2999121.27	658342.91	2999129.93
581	72+700	658311.87	2999126.45	658320.17	2999135.11	658328.48	2999143.77
582	72+720	658297.06	2999141.25	658306.02	2999149.23	658314.98	2999157.21
583	72+740	658284.10	2999160.29	658294.80	2999165.73	658305.50	2999171.17
584	72+760	658275.97	2999180.08	658287.23	2999184.22	658298.49	2999188.37
585	72+780	658269.06	2999198.85	658280.32	2999202.99	658291.58	2999207.14
586	72+800	658262.21	2999216.63	658273.12	2999221.65	658284.02	2999226.66
587	72+820	658253.42	2999230.59	658262.46	2999238.48	658271.50	2999246.38
588	72+840	658240.90	2999241.66	658247.52	2999251.67	658254.14	2999261.68
589	72+860	658224.58	2999250.34	658229.89	2999261.10	658235.20	2999271.86
590	72+880	658206.64	2999259.19	658211.96	2999269.95	658217.27	2999280.71
591	72+900	658188.58	2999268.13	658194.03	2999278.82	658199.49	2999289.51
592	72+920	658169.57	2999279.24	658176.76	2999288.84	658183.95	2999298.45
593	72+940	658152.93	2999295.02	658162.27	2999302.55	658171.62	2999310.08
594	72+960	658140.69	2999314.44	658151.61	2999319.40	658162.54	2999324.36
595	72+980	658132.99	2999333.77	658144.23	2999337.98	658155.46	2999342.20
596	73+000	658125.96	2999352.49	658137.20	2999356.71	658148.44	2999360.92
597	73+020	658118.94	2999371.22	658130.17	2999375.43	658141.41	2999379.65
598	73+040	658111.91	2999389.94	658123.15	2999394.16	658134.39	2999398.37
599	73+060	658105.03	2999409.78	658116.58	2999413.04	658128.12	2999416.31
600	73+080	658101.26	2999432.29	658113.26	2999432.71	658125.25	2999433.13
601	73+100	658103.13	2999455.15	658114.86	2999452.59	658126.58	2999450.03
602	73+120	658110.36	2999476.55	658121.24	2999471.49	658132.12	2999466.43
603	73+140	658119.70	2999494.92	658130.31	2999489.31	658140.92	2999483.71
604	73+160	658129.04	2999512.60	658139.65	2999507.00	658150.27	2999501.39
605	73+180	658138.39	2999530.28	658149.00	2999524.68	658159.61	2999519.07
606	73+200	658147.73	2999547.97	658158.34	2999542.36	658168.95	2999536.76
607	73+220	658157.07	2999565.65	658167.68	2999560.05	658178.29	2999554.44
608	73+240	658166.41	2999583.34	658177.02	2999577.73	658187.64	2999572.12
609	73+260	658175.76	2999601.02	658186.37	2999595.41	658196.98	2999589.81
610	73+280	658185.10	2999618.70	658195.71	2999613.10	658206.32	2999607.49
611	73+300	658193.24	2999635.29	658204.47	2999631.06	658215.70	2999626.83
612	73+320	658196.70	2999650.92	658208.69	2999650.51	658220.68	2999650.09

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
613	73+340	658194.86	2999666.73	658206.32	2999670.26	658217.79	2999673.80
614	73+360	658187.84	2999681.26	658197.65	2999688.18	658207.45	2999695.09
615	73+380	658175.87	2999694.31	658184.20	2999702.94	658192.53	2999711.58
616	73+400	658161.47	2999708.16	658169.79	2999716.81	658178.11	2999725.46
617	73+420	658147.06	2999722.03	658155.38	2999730.68	658163.70	2999739.33
618	73+440	658132.65	2999735.90	658140.97	2999744.55	658149.29	2999753.19
619	73+460	658118.24	2999749.77	658126.56	2999758.41	658134.88	2999767.06
620	73+480	658103.83	2999763.64	658112.15	2999772.28	658120.47	2999780.93
621	73+500	658089.41	2999777.50	658097.74	2999786.15	658106.06	2999794.80
622	73+520	658075.00	2999791.37	658083.32	2999800.02	658091.64	2999808.66
623	73+540	658060.49	2999805.38	658068.93	2999813.90	658077.38	2999822.43
624	73+560	658045.92	2999820.80	658055.19	2999828.42	658064.46	2999836.04
625	73+580	658033.02	2999837.77	658043.08	2999844.32	658053.13	2999850.87
626	73+600	658022.08	2999856.07	658032.80	2999861.47	658043.52	2999866.86
627	73+620	658013.24	2999875.48	658024.50	2999879.65	658035.75	2999883.82
628	73+640	658006.61	2999895.74	658018.25	2999898.63	658029.90	2999901.53
629	73+660	658002.26	2999916.61	658014.16	2999918.20	658026.05	2999919.79
630	73+680	658000.22	2999937.60	658012.21	2999938.09	658024.20	2999938.59
631	73+700	657999.47	2999957.66	658011.46	2999958.08	658023.45	2999958.50
632	73+720	657998.76	2999977.64	658010.76	2999978.07	658022.75	2999978.49
633	73+740	657998.06	2999997.63	658010.05	2999998.05	658022.05	2999998.48
634	73+760	657997.36	3000017.62	658009.35	3000018.04	658021.34	3000018.46
635	73+780	657996.65	3000037.61	658008.65	3000038.03	658020.64	3000038.45
636	73+800	657995.95	3000057.60	658007.94	3000058.02	658019.94	3000058.44
637	73+820	657995.25	3000077.58	658007.24	3000078.00	658019.23	3000078.43
638	73+840	657994.01	3000096.32	658005.90	3000097.95	658017.79	3000099.58
639	73+860	657990.22	3000113.90	658001.68	3000117.47	658013.13	3000121.05
640	73+880	657983.57	3000130.60	657994.27	3000136.02	658004.98	3000141.45
641	73+900	657974.24	3000145.96	657983.89	3000153.09	657993.55	3000160.22
642	73+920	657962.49	3000159.57	657970.83	3000168.20	657979.17	3000176.83
643	73+940	657948.64	3000171.03	657955.44	3000180.93	657962.23	3000190.82
644	73+960	657933.07	3000180.06	657938.15	3000190.94	657943.23	3000201.81
645	73+980	657915.03	3000188.31	657919.96	3000199.25	657924.89	3000210.19
646	74+000	657896.80	3000196.53	657901.72	3000207.47	657906.65	3000218.41
647	74+020	657878.56	3000204.74	657883.49	3000215.68	657888.42	3000226.62
648	74+040	657860.33	3000212.96	657865.25	3000223.90	657870.18	3000234.84

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
649	74+060	657841.94	3000221.27	657847.03	3000232.14	657852.12	3000243.00
650	74+080	657822.91	3000231.22	657829.31	3000241.37	657835.71	3000251.52
651	74+100	657805.29	3000244.36	657813.29	3000253.30	657821.29	3000262.25
652	74+120	657790.10	3000260.23	657799.47	3000267.73	657808.84	3000275.22
653	74+140	657777.75	3000278.41	657788.24	3000284.24	657798.72	3000290.08
654	74+160	657768.62	3000298.11	657779.84	3000302.37	657791.06	3000306.63
655	74+180	657761.58	3000316.91	657772.82	3000321.10	657784.07	3000325.29
656	74+200	657754.60	3000335.66	657765.85	3000339.84	657777.09	3000344.03
657	74+220	657747.63	3000354.36	657758.86	3000358.58	657770.09	3000362.81
658	74+240	657740.54	3000372.35	657751.53	3000377.19	657762.51	3000382.02
659	74+260	657732.37	3000389.90	657743.08	3000395.31	657753.79	3000400.73
660	74+280	657723.13	3000407.25	657733.68	3000412.96	657744.23	3000418.68
661	74+300	657713.60	3000424.83	657724.15	3000430.55	657734.71	3000436.26
662	74+320	657704.08	3000442.42	657714.63	3000448.14	657725.18	3000453.85
663	74+340	657694.55	3000460.01	657705.10	3000465.72	657715.66	3000471.44
664	74+360	657685.03	3000477.59	657695.58	3000483.31	657706.13	3000489.02
665	74+380	657675.50	3000495.18	657686.06	3000500.90	657696.61	3000506.61
666	74+400	657665.98	3000512.77	657676.53	3000518.48	657687.08	3000524.20
667	74+420	657656.46	3000530.35	657667.01	3000536.07	657677.56	3000541.78
668	74+440	657646.93	3000547.94	657657.48	3000553.66	657668.04	3000559.37
669	74+460	657637.41	3000565.53	657647.96	3000571.24	657658.51	3000576.96
670	74+480	657627.88	3000583.11	657638.43	3000588.83	657648.99	3000594.54
671	74+500	657618.36	3000600.70	657628.91	3000606.42	657639.46	3000612.13
672	74+520	657608.95	3000617.74	657619.23	3000623.92	657629.52	3000630.09
673	74+540	657598.55	3000632.43	657607.68	3000640.21	657616.81	3000647.99
674	74+560	657585.87	3000645.17	657593.59	3000654.37	657601.30	3000663.56
675	74+580	657571.39	3000655.54	657577.33	3000665.97	657583.27	3000676.39
676	74+600	657554.58	3000664.03	657559.49	3000674.98	657564.40	3000685.93
677	74+620	657536.34	3000672.19	657541.23	3000683.14	657546.13	3000694.10
678	74+640	657517.79	3000680.59	657523.02	3000691.40	657528.24	3000702.20
679	74+660	657498.53	3000691.96	657505.80	3000701.51	657513.07	3000711.06
680	74+680	657482.03	3000707.88	657491.44	3000715.34	657500.84	3000722.79
681	74+700	657469.97	3000727.45	657480.95	3000732.30	657491.92	3000737.15
682	74+720	657462.95	3000748.45	657474.62	3000751.23	657486.29	3000754.02
683	74+740	657458.39	3000768.04	657470.08	3000770.71	657481.78	3000773.39
684	74+760	657453.93	3000787.54	657465.63	3000790.21	657477.33	3000792.88

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
685	74+780	657449.48	3000807.04	657461.18	3000809.71	657472.88	3000812.38
686	74+800	657445.03	3000826.54	657456.73	3000829.21	657468.43	3000831.88
687	74+820	657440.58	3000846.04	657452.28	3000848.71	657463.98	3000851.38
688	74+840	657436.13	3000865.54	657447.83	3000868.21	657459.53	3000870.88
689	74+860	657431.68	3000885.03	657443.38	3000887.70	657455.08	3000890.38
690	74+880	657427.22	3000904.58	657438.93	3000907.20	657450.64	3000909.83
691	74+900	657423.08	3000925.06	657434.95	3000926.80	657446.82	3000928.54
692	74+920	657421.40	3000946.85	657433.40	3000946.71	657445.40	3000946.57
693	74+940	657423.36	3000968.73	657435.17	3000966.61	657446.98	3000964.49
694	74+960	657428.48	3000989.52	657439.96	3000986.01	657451.43	3000982.51
695	74+980	657434.40	3001008.69	657445.86	3001005.12	657457.31	3001001.56
696	75+000	657440.34	3001027.79	657451.80	3001024.22	657463.26	3001020.66
697	75+020	657446.28	3001046.88	657457.74	3001043.32	657469.20	3001039.75
698	75+040	657452.22	3001065.98	657463.68	3001062.42	657475.14	3001058.85
699	75+060	657457.91	3001084.64	657469.50	3001081.55	657481.10	3001078.46
700	75+080	657461.73	3001102.42	657473.66	3001101.09	657485.58	3001099.75
701	75+100	657462.07	3001119.99	657474.03	3001121.05	657485.98	3001122.11
702	75+120	657458.90	3001137.38	657470.44	3001140.69	657481.98	3001143.99
703	75+140	657452.42	3001154.56	657463.41	3001159.39	657474.39	3001164.23
704	75+160	657444.33	3001172.79	657455.29	3001177.67	657466.25	3001182.56
705	75+180	657436.19	3001191.06	657447.15	3001195.94	657458.11	3001200.83
706	75+200	657428.01	3001209.61	657439.09	3001214.24	657450.16	3001218.87
707	75+220	657420.43	3001229.07	657431.81	3001232.87	657443.19	3001236.67
708	75+240	657414.35	3001249.12	657426.00	3001252.00	657437.65	3001254.88
709	75+260	657409.89	3001269.59	657421.73	3001271.53	657433.57	3001273.47
710	75+280	657407.08	3001290.36	657419.04	3001291.34	657431.00	3001292.33
711	75+300	657405.94	3001311.28	657417.94	3001311.31	657429.94	3001311.33
712	75+320	657406.48	3001332.23	657418.44	3001331.29	657430.41	3001330.36
713	75+340	657408.69	3001353.06	657420.54	3001351.18	657432.39	3001349.29
714	75+360	657412.50	3001373.54	657424.20	3001370.83	657435.89	3001368.13
715	75+380	657417.22	3001393.17	657428.87	3001390.28	657440.52	3001387.39
716	75+400	657422.05	3001412.58	657433.69	3001409.69	657445.34	3001406.80
717	75+420	657426.87	3001431.99	657438.52	3001429.10	657450.16	3001426.21
718	75+440	657431.69	3001451.40	657443.34	3001448.51	657454.99	3001445.61
719	75+460	657436.52	3001470.81	657448.16	3001467.92	657459.81	3001465.02
720	75+480	657441.34	3001490.22	657452.99	3001487.33	657464.63	3001484.43

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
721	75+500	657446.16	3001509.63	657457.81	3001506.74	657469.46	3001503.84
722	75+520	657451.27	3001529.40	657462.81	3001526.10	657474.34	3001522.81
723	75+540	657457.61	3001549.38	657468.85	3001545.16	657480.08	3001540.95
724	75+560	657465.52	3001568.78	657476.38	3001563.68	657487.24	3001558.58
725	75+580	657474.94	3001587.49	657485.36	3001581.54	657495.79	3001575.59
726	75+600	657485.84	3001605.39	657495.75	3001598.63	657505.66	3001591.86
727	75+620	657498.05	3001622.29	657507.45	3001614.84	657516.86	3001607.39
728	75+640	657511.38	3001638.12	657520.34	3001630.13	657529.30	3001622.15
729	75+660	657524.74	3001653.05	657533.67	3001645.04	657542.61	3001637.02
730	75+680	657538.10	3001667.94	657547.03	3001659.93	657555.96	3001651.91
731	75+700	657551.45	3001682.83	657560.38	3001674.81	657569.32	3001666.80
732	75+720	657564.80	3001697.71	657573.74	3001689.70	657582.67	3001681.69
733	75+740	657578.21	3001712.65	657587.10	3001704.58	657595.98	3001696.52
734	75+760	657591.92	3001727.52	657600.65	3001719.29	657609.39	3001711.06
735	75+780	657605.64	3001742.07	657614.37	3001733.84	657623.11	3001725.61
736	75+800	657619.36	3001756.63	657628.09	3001748.39	657636.82	3001740.16
737	75+820	657633.08	3001771.18	657641.81	3001762.95	657650.54	3001754.71
738	75+840	657646.80	3001785.73	657655.53	3001777.50	657664.26	3001769.27
739	75+860	657660.52	3001800.28	657669.25	3001792.05	657677.98	3001783.82
740	75+880	657674.24	3001814.84	657682.97	3001806.60	657691.70	3001798.37
741	75+900	657687.99	3001829.41	657696.69	3001821.15	657705.40	3001812.89
742	75+920	657702.42	3001844.16	657710.68	3001835.45	657718.93	3001826.74
743	75+940	657717.80	3001858.08	657725.50	3001848.87	657733.20	3001839.67
744	75+960	657733.43	3001870.91	657740.96	3001861.56	657748.48	3001852.21
745	75+980	657749.01	3001883.45	657756.54	3001874.10	657764.06	3001864.75
746	76+000	657764.59	3001895.99	657772.12	3001886.64	657779.64	3001877.29
747	76+020	657780.17	3001908.53	657787.69	3001899.18	657795.22	3001889.83
748	76+040	657795.75	3001921.07	657803.27	3001911.72	657810.80	3001902.38
749	76+060	657811.33	3001933.61	657818.85	3001924.26	657826.38	3001914.92
750	76+080	657826.91	3001946.15	657834.43	3001936.81	657841.96	3001927.46
751	76+100	657842.49	3001958.69	657850.01	3001949.35	657857.54	3001940.00
752	76+120	657858.07	3001971.23	657865.59	3001961.89	657873.12	3001952.54
753	76+140	657873.65	3001983.78	657881.17	3001974.43	657888.70	3001965.08
754	76+160	657889.23	3001996.32	657896.75	3001986.97	657904.28	3001977.62
755	76+180	657904.81	3002008.86	657912.33	3001999.51	657919.86	3001990.16
756	76+200	657920.39	3002021.40	657927.91	3002012.05	657935.44	3002002.70

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
757	76+220	657935.97	3002033.94	657943.49	3002024.59	657951.02	3002015.24
758	76+240	657951.55	3002046.48	657959.07	3002037.13	657966.60	3002027.78
759	76+260	657966.98	3002058.95	657974.63	3002049.70	657982.27	3002040.45
760	76+280	657981.73	3002071.54	657989.84	3002062.69	657997.94	3002053.84
761	76+300	657995.72	3002084.85	658004.32	3002076.47	658012.92	3002068.10
762	76+320	658008.93	3002098.94	658017.99	3002091.07	658027.05	3002083.20
763	76+340	658021.31	3002113.76	658030.81	3002106.42	658040.30	3002099.08
764	76+360	658032.83	3002129.26	658042.72	3002122.48	658052.62	3002115.69
765	76+380	658043.44	3002145.40	658053.71	3002139.19	658063.97	3002132.98
766	76+400	658053.11	3002162.11	658063.71	3002156.50	658074.32	3002150.89
767	76+420	658061.81	3002179.35	658072.72	3002174.35	658083.63	3002169.36
768	76+440	658069.57	3002197.14	658080.71	3002192.69	658091.85	3002188.23
769	76+460	658076.85	3002215.64	658088.03	3002211.30	658099.22	3002206.95
770	76+480	658084.09	3002234.28	658095.27	3002229.94	658106.46	3002225.60
771	76+500	658091.32	3002252.93	658102.51	3002248.58	658113.70	3002244.24
772	76+520	658098.56	3002271.57	658109.75	3002267.23	658120.93	3002262.89
773	76+540	658105.80	3002290.22	658116.99	3002285.87	658128.17	3002281.53
774	76+560	658113.04	3002308.86	658124.22	3002304.52	658135.41	3002300.17
775	76+580	658120.28	3002327.50	658131.46	3002323.16	658142.65	3002318.82
776	76+600	658127.51	3002346.15	658138.70	3002341.81	658149.89	3002337.46
777	76+620	658134.76	3002364.82	658145.94	3002360.45	658157.12	3002356.08
778	76+640	658142.49	3002383.85	658153.45	3002378.98	658164.42	3002374.11
779	76+660	658151.96	3002402.91	658162.34	3002396.89	658172.72	3002390.87
780	76+680	658163.22	3002420.85	658172.95	3002413.83	658182.68	3002406.80
781	76+700	658176.11	3002437.49	658185.19	3002429.64	658194.26	3002421.79
782	76+720	658190.35	3002452.73	658198.84	3002444.25	658207.33	3002435.77
783	76+740	658204.53	3002466.88	658213.00	3002458.38	658221.46	3002449.87
784	76+760	658218.71	3002480.99	658227.18	3002472.48	658235.64	3002463.97
785	76+780	658232.89	3002495.09	658241.36	3002486.58	658249.82	3002478.08
786	76+800	658247.07	3002509.20	658255.54	3002500.69	658264.00	3002492.18
787	76+820	658260.74	3002523.04	658269.58	3002514.93	658278.42	3002506.81
788	76+840	658272.68	3002537.13	658282.47	3002530.20	658292.26	3002523.26
789	76+860	658282.64	3002552.58	658293.27	3002547.01	658303.89	3002541.44
790	76+880	658290.46	3002569.22	658301.73	3002565.11	658313.00	3002561.00
791	76+900	658295.99	3002586.75	658307.71	3002584.18	658319.43	3002581.60
792	76+920	658299.23	3002605.11	658311.16	3002603.86	658323.10	3002602.61

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
793	76+940	658301.04	3002624.76	658313.00	3002623.78	658324.96	3002622.79
794	76+960	658302.68	3002644.69	658314.64	3002643.71	658326.60	3002642.72
795	76+980	658304.32	3002664.63	658316.28	3002663.64	658328.24	3002662.66
796	77+000	658305.96	3002684.56	658317.92	3002683.57	658329.88	3002682.59
797	77+020	658307.61	3002704.49	658319.56	3002703.51	658331.52	3002702.52
798	77+040	658310.56	3002726.13	658322.22	3002723.31	658333.88	3002720.48
799	77+060	658318.55	3002747.63	658329.15	3002742.01	658339.75	3002736.38
800	77+080	658331.56	3002766.45	658340.48	3002758.42	658349.39	3002750.38
801	77+100	658346.14	3002781.21	658354.54	3002772.64	658362.93	3002764.06
802	77+120	658360.43	3002795.20	658368.83	3002786.63	658377.22	3002778.06
803	77+140	658374.72	3002809.20	658383.12	3002800.62	658391.51	3002792.05
804	77+160	658389.01	3002823.19	658397.41	3002814.62	658405.80	3002806.04
805	77+180	658403.19	3002837.11	658411.68	3002828.63	658420.16	3002820.14
806	77+200	658414.80	3002850.54	658424.70	3002843.77	658434.60	3002836.99
807	77+220	658423.00	3002865.66	658434.18	3002861.32	658445.37	3002856.98
808	77+240	658428.45	3002883.40	658440.07	3002880.41	658451.69	3002877.43
809	77+260	658433.42	3002902.77	658445.04	3002899.79	658456.66	3002896.81
810	77+280	658438.39	3002922.14	658450.01	3002919.16	658461.63	3002916.18
811	77+300	658443.36	3002941.51	658454.98	3002938.53	658466.60	3002935.55
812	77+320	658448.32	3002960.89	658459.95	3002957.90	658471.57	3002954.92
813	77+340	658453.91	3002980.99	658465.29	3002977.17	658476.67	3002973.36
814	77+360	658463.50	3003001.82	658473.58	3002995.31	658483.66	3002988.80
815	77+380	658476.94	3003019.20	658485.80	3003011.10	658494.65	3003003.01
816	77+400	658491.20	3003033.84	658499.75	3003025.43	658508.31	3003017.01
817	77+420	658505.06	3003047.98	658513.75	3003039.71	658522.45	3003031.44
818	77+440	658515.89	3003061.34	658526.24	3003055.27	658536.60	3003049.21
819	77+460	658521.86	3003076.17	658533.61	3003073.76	658545.36	3003071.34
820	77+480	658522.66	3003092.31	658534.59	3003093.64	658546.51	3003094.97
821	77+500	658519.30	3003110.77	658531.03	3003113.31	658542.76	3003115.85
822	77+520	658515.07	3003130.31	658526.80	3003132.85	658538.52	3003135.40
823	77+540	658511.44	3003151.77	658523.41	3003152.54	658535.39	3003153.31
824	77+560	658513.10	3003175.06	658524.81	3003172.42	658536.51	3003169.78
825	77+580	658521.25	3003196.92	658531.74	3003191.10	658542.24	3003185.27
826	77+600	658534.36	3003215.12	658543.43	3003207.27	658552.51	3003199.42
827	77+620	658547.61	3003230.22	658556.63	3003222.30	658565.64	3003214.38
828	77+640	658560.81	3003245.25	658569.82	3003237.33	658578.84	3003229.41

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
829	77+660	658574.00	3003260.27	658583.02	3003252.36	658592.04	3003244.44
830	77+680	658586.82	3003275.14	658596.08	3003267.50	658605.33	3003259.87
831	77+700	658598.61	3003290.24	658608.38	3003283.27	658618.15	3003276.30
832	77+720	658609.45	3003306.16	658619.63	3003299.80	658629.80	3003293.44
833	77+740	658619.80	3003323.03	658630.08	3003316.85	658640.36	3003310.66
834	77+760	658630.10	3003340.17	658640.39	3003333.99	658650.67	3003327.80
835	77+780	658640.41	3003357.31	658650.70	3003351.13	658660.98	3003344.94
836	77+800	658650.72	3003374.45	658661.00	3003368.27	658671.29	3003362.08
837	77+820	658660.88	3003391.47	658671.25	3003385.44	658681.63	3003379.41
838	77+840	658670.48	3003408.49	658681.08	3003402.86	658691.68	3003397.24
839	77+860	658679.39	3003425.85	658690.20	3003420.65	658701.02	3003415.46
840	77+880	658687.64	3003443.61	658698.63	3003438.79	658709.62	3003433.97
841	77+900	658695.55	3003461.87	658706.58	3003457.14	658717.61	3003452.41
842	77+920	658703.44	3003480.25	658714.46	3003475.52	658725.49	3003470.79
843	77+940	658711.32	3003498.63	658722.35	3003493.90	658733.38	3003489.17
844	77+960	658719.20	3003517.01	658730.23	3003512.28	658741.26	3003507.55
845	77+980	658727.09	3003535.40	658738.12	3003530.66	658749.15	3003525.93
846	78+000	658734.97	3003553.78	658746.00	3003549.04	658757.03	3003544.31
847	78+020	658742.86	3003572.16	658753.89	3003567.42	658764.91	3003562.69
848	78+040	658750.91	3003590.69	658761.86	3003585.77	658772.80	3003580.84
849	78+060	658759.58	3003609.22	658770.33	3003603.88	658781.08	3003598.55
850	78+080	658768.89	3003627.32	658779.47	3003621.67	658790.06	3003616.02
851	78+100	658778.34	3003644.98	658788.92	3003639.30	658799.49	3003633.62
852	78+120	658787.80	3003662.60	658798.38	3003656.92	658808.95	3003651.24
853	78+140	658797.26	3003680.22	658807.84	3003674.54	658818.41	3003668.87
854	78+160	658806.72	3003697.84	658817.30	3003692.16	658827.87	3003686.49
855	78+180	658816.18	3003715.46	658826.76	3003709.78	658837.33	3003704.11
856	78+200	658825.60	3003733.03	658836.21	3003727.41	658846.81	3003721.80
857	78+220	658834.39	3003750.32	658845.26	3003745.24	658856.13	3003740.16
858	78+240	658841.37	3003767.57	658852.75	3003763.78	658864.14	3003759.98
859	78+260	658847.18	3003786.19	658858.71	3003782.86	658870.24	3003779.54
860	78+280	658852.71	3003805.40	658864.24	3003802.09	658875.77	3003798.77
861	78+300	658858.23	3003824.62	658869.76	3003821.31	658881.30	3003817.99
862	78+320	658863.75	3003843.84	658875.29	3003840.53	658886.82	3003837.22
863	78+340	658870.51	3003864.42	658881.47	3003859.53	658892.43	3003854.64
864	78+360	658886.29	3003884.96	658893.38	3003875.28	658900.46	3003865.59

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
865	78+380	658911.07	3003894.24	658911.79	3003882.26	658912.52	3003870.29
866	78+400	658936.51	3003889.21	658931.18	3003878.46	658925.85	3003867.71
867	78+420	658956.15	3003871.48	658945.85	3003865.32	658935.55	3003859.16
868	78+440	658963.10	3003846.08	658951.10	3003846.33	658939.10	3003846.58
869	78+460	658956.25	3003821.66	658945.66	3003827.30	658935.07	3003832.94
870	78+480	658945.51	3003803.82	658935.33	3003810.18	658925.16	3003816.54
871	78+500	658934.90	3003786.86	658924.73	3003793.22	658914.55	3003799.59
872	78+520	658924.29	3003769.90	658914.12	3003776.27	658903.95	3003782.63
873	78+540	658913.69	3003752.95	658903.51	3003759.31	658893.34	3003765.68
874	78+560	658904.29	3003736.81	658893.48	3003742.02	658882.68	3003747.24
875	78+580	658898.13	3003720.24	658886.53	3003723.31	658874.93	3003726.38
876	78+600	658894.54	3003701.68	658882.71	3003703.68	658870.88	3003705.69
877	78+620	658891.13	3003681.85	658879.32	3003683.97	658867.51	3003686.10
878	78+640	658887.27	3003661.78	658875.55	3003664.33	658863.82	3003666.89
879	78+660	658882.63	3003641.84	658871.02	3003644.86	658859.41	3003647.88
880	78+680	658877.21	3003622.12	658865.72	3003625.57	658854.23	3003629.03
881	78+700	658870.99	3003602.59	658859.65	3003606.52	658848.31	3003610.44
882	78+720	658864.08	3003583.44	658852.86	3003587.71	658841.64	3003591.97
883	78+740	658856.92	3003564.72	658845.72	3003569.02	658834.51	3003573.33
884	78+760	658849.75	3003546.05	658838.55	3003550.35	658827.35	3003554.65

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
885	78+780	658842.59	3003527.38	658831.38	3003531.68	658820.18	3003535.98
886	78+800	658835.42	3003508.71	658824.22	3003513.01	658813.01	3003517.31
887	78+820	658828.25	3003490.04	658817.05	3003494.34	658805.85	3003498.64
888	78+840	658822.83	3003473.46	658810.97	3003475.33	658799.11	3003477.20
889	78+860	658825.29	3003462.08	658814.88	3003456.10	658804.48	3003450.13
890	78+880	658834.31	3003454.45	658829.80	3003443.33	658825.28	3003432.21
891	78+900	658846.55	3003453.32	658849.34	3003441.65	658852.13	3003429.97
892	78+920	658856.33	3003459.85	658865.74	3003452.40	658875.15	3003444.96
893	78+940	658860.23	3003471.80	658872.20	3003470.98	658884.17	3003470.16
894	78+960	658860.74	3003491.21	658872.74	3003490.97	658884.74	3003490.73
895	78+980	658861.55	3003511.92	658873.51	3003510.95	658885.47	3003509.98
896	79+000	658864.51	3003533.38	658876.22	3003530.75	658887.93	3003528.12
897	79+020	658870.23	3003554.13	658881.50	3003550.02	658892.78	3003545.91
898	79+040	658877.78	3003573.32	658888.82	3003568.63	658899.86	3003563.94
899	79+060	658885.62	3003591.73	658896.66	3003587.03	658907.70	3003582.32
900	79+080	658893.46	3003610.13	658904.50	3003605.43	658915.54	3003600.72
901	79+100	658902.55	3003629.64	658912.90	3003623.56	658923.24	3003617.48
902	79+120	658919.87	3003647.99	658926.49	3003637.98	658933.12	3003627.98
903	79+140	658943.28	3003657.07	658944.96	3003645.19	658946.63	3003633.30
904	79+160	658968.31	3003655.19	658964.72	3003643.74	658961.12	3003632.30

Lava More To Pedong (NH-717A) ROW Details							
Sl. No	Chainage	LHS		Center		RHS	
		Easting	Norting	Easting	Norting	Easting	Norting
905	79+180	658990.11	3003642.73	658981.94	3003633.94	658973.77	3003625.15
906	79+200	659004.37	3003622.37	658993.32	3003617.70	658982.26	3003613.03
907	79+220	659010.87	3003602.20	658999.40	3003598.66	658987.94	3003595.11
908	79+240	659016.77	3003583.09	659005.31	3003579.55	658993.84	3003576.01
909	79+260	659022.68	3003563.98	659011.21	3003560.44	658999.75	3003556.90
910	79+280	659028.58	3003544.88	659017.12	3003541.33	659005.65	3003537.79
911	79+300	659034.81	3003530.21	659025.12	3003523.13	659015.44	3003516.04
912	79+320	659045.42	3003521.48	659040.39	3003510.58	659035.35	3003499.69
913	79+340	659058.53	3003519.42	659059.89	3003507.49	659061.25	3003495.57
914	79+360	659071.15	3003524.21	659078.32	3003514.59	659085.48	3003504.96
915	79+380	659079.74	3003534.84	659090.71	3003529.97	659101.67	3003525.10
916	79+400	659082.58	3003550.27	659094.55	3003549.47	659106.52	3003548.67
917	79+420	659083.86	3003570.20	659095.83	3003569.43	659107.81	3003568.66
918	79+440	659085.27	3003590.50	659097.22	3003589.38	659109.17	3003588.26
919	79+460	659090.02	3003612.84	659101.35	3003608.90	659112.68	3003604.96
920	79+480	659099.46	3003632.90	659109.88	3003626.95	659120.30	3003621.00
921	79+500	659109.45	3003650.27	659119.85	3003644.28	659130.25	3003638.30
922	79+520	659118.51	3003666.02	659128.91	3003660.03	659139.31	3003654.05

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: ROW Co-ordinates List Lavamore To Pedong Bypass
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K	
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH	
R2	15-10-2024	Revised As Per Observation				Approved By : VY	DWG NO: XPL/DSD/WB/KM18.6/ROW/09
						SCALE : NTS	Sheet No: 09 OF 09
							DATE: Dec-2024

HORIZONTAL & VERTICAL ALIGNMENT REPORT

HORIZONTAL ALIGNMENT REPORT

HIP No.	HIP Easting	HIP Northing	Radius	Transitio n Length	TS	SC/TC	CS/CT	ST	HIP Chainage	SPEED (V) in KMPH	D	Lc	Dc	SHIFT (S)	Ts(Deg)	EXTERN AL DISTANC E (Es)	K	Ts(m)	Super elevation e (%)	Extra Widenin g	Deflection Angle	Direction of curve
0	664062.2843	2997183.682	0	0																		
1	664013.8101	2997204.237	80	25	61122.639	61147.639	61157.005	61182.005	61152.322	40	0.4296	9.37	0.1171	0.33	0.1563	2.219	12.48983	30.01	8.89	0.900	06 42 29.229	Right
2	663937.6205	2997287.653	60	25	61226.719	61251.719	61275.079	61300.079	61263.399	35	0.8060	23.36	0.3893	0.43	0.2083	5.693	12.48194	38.25	9.07	1.200	22 18 26.720	Left
3	663942.0505	2997354.831	120	15	61304.86	61319.86	61338.217	61353.217	61329.039	40	0.2780	18.36	0.1530	0.08	0.0625	1.249	7.499024	24.30	5.93	0.600	08 45 53.423	Left
4	663917.7885	2997467.486	30	25	61399.21	61424.21	61447.902	61472.902	61436.056	25	1.6231	23.69	0.7897	0.87	0.4167	14.844	12.42801	44.96	9.26	1.500	45 14 56.033	Right
5	663797.6649	2997434.963	80	25	61507.876	61532.876	61568.597	61593.597	61550.737	40	0.7590	35.72	0.4465	0.33	0.1563	6.484	12.48983	44.53	8.89	0.900	25 34 58.818	Left
6	663727.8759	2997472.601	125	25	61599.2	61624.2	61632.282	61657.282	61628.241	40	0.2647	8.08	0.0647	0.21	0.1000	1.314	12.49583	29.16	5.69	0.600	03 42 15.962	Right
7	663605.7832	2997501.181	30	25	61701.326	61726.326	61755.969	61780.969	61741.148	25	1.8214	29.64	0.9881	0.87	0.4167	20.344	12.42801	52.20	9.26	1.500	56 36 48.137	Right
8	663661.0578	2997607.205	30	25	61808.232	61833.232	61852.107	61877.107	61842.670	25	1.4625	18.88	0.6292	0.87	0.4167	11.473	12.42801	40.12	9.26	1.500	36 02 51.473	Left
9	663598.9427	2997648.695	40	25	61883.324	61908.324	61913.16	61938.16	61910.742	30	0.7459	4.84	0.1209	0.65	0.3125	3.651	12.45942	28.36	10.00	1.500	06 55 36.704	Left
10	663585.3035	2997705.408	30	15	61947.335	61962.335	61972.155	61987.155	61967.245	20	0.8273	9.82	0.3273	0.31	0.2500	3.102	7.484402	20.79	5.93	1.500	18 45 17.018	Right
11	663516.3234	2997743.762	70	15	62027.215	62042.215	62048.171	62063.171	62045.193	30	0.2994	5.96	0.0851	0.13	0.1071	0.923	7.497131	18.07	5.71	0.900	04 52 29.997	Left
12	663452.029	2997810.872	120	25	62099.853	62124.853	62150.374	62175.374	62137.614	40	0.4210	25.52	0.2127	0.22	0.1042	2.934	12.49548	38.18	5.93	0.600	12 11 07.944	Right
13	663329.9642	2997860.451	150	25	62234.521	62259.521	62278.009	62303.009	62268.765	40	0.2899	18.49	0.1233	0.17	0.0833	1.762	12.49711	34.42	4.74	0.600	07 03 42.345	Left
14	663219.3997	2997871.086	40	25	62326.544	62351.544	62389.387	62414.387	62370.466	30	1.5711	37.84	0.9461	0.65	0.3125	17.496	12.45942	53.12	10.00	1.500	54 12 22.454	Right
15	663229.017	2997970.778	80	15	62441.907	62456.907	62465.730	62480.730	62461.319	30	0.298	8.823	0.110	0.120	0.094	1.016	7.498	19.516	5.00	0.900	06 19 08.036	Right
16	663212.578	2998051.208	40	25	62509.841	62534.841	62548.000	62573.000	62541.421	30	0.954	13.159	0.329	0.650	0.313	5.757	12.459	33.467	10.000	1.500	18 50 54.545	Left
17	663135.948	2998084.990	40	25	62586.372	62611.372	62629.691	62654.691	62620.532	30	1.083	18.319	0.458	0.650	0.313	7.436	12.459	36.909	10.000	1.500	26 14 20.391	Right
18	663127.307	2998203.771	40	25	62694.911	62719.911	62745.144	62770.144	62732.528	30	1.256	25.233	0.631	0.650	0.313	10.231	12.459	41.968	10.000	1.500	36 08 37.420	Left
19	663027.827	2998228.363	40	25	62783.411	62808.411	62840.032	62865.032	62824.222	30	1.416	31.621	0.791	0.650	0.313	13.500	12.459	47.241	10.000	1.500	45 17 39.534	Right
20	663043.933	2998412.839	45	20	62888.849	62908.849	62993.242	63013.242	62951.046	30	2.320	84.393	1.875	0.370	0.222	68.592	9.984	114.122	8.889	1.200	107 27 08.052	Left
21	662864.838	2998273.281	60	15	63087.534	63102.534	63144.855	63159.855	63123.695	30	0.955	42.321	0.705	0.160	0.125	7.743	7.496	38.638	6.667	1.200	40 24 51.844	Left
22	662772.772	2998301.096	60	15	63188.801	63203.801	63229.279	63244.279	63216.540	30	0.675	25.478	0.425	0.160	0.125	3.753	7.496	28.595	6.667	1.200	24 19 45.888	Right
23	662693.032	2998269.134	80	25	63271.096	63296.096	63306.379	63331.379	63301.238	40	0.441	10.283	0.129	0.330	0.156	2.324	12.490	30.497	8.889	0.900	07 21 53.027	Right
24	662646.870	2998219.437	60	20	63336.016	63356.016	63379.245	63399.245	63367.631	30	0.720	23.229	0.387	0.280	0.167	4.415	9.991	32.697	6.667	1.200	22 10 52.394	Left
25	662483.403	2998202.740	20	15	63508.089	63523.089	63541.880	63556.880	63532.485	20	1.690	18.791	0.940	0.470	0.375	10.833	7.465	30.523	10.000	1.500	53 49 55.777	Right
26	662475.834	2998154.131	20	0		63542.943	63575.760		63559.352	20	1.641	32.817	1.641	0.000	0.000	9.329	0.000	21.453	10.000	1.500	94 00 50.774	Right
27	662631.319	2998200.632	20	15	63686.199	63701.199	63725.115	63740.115	63713.157	20	1.946	23.916	1.196	0.470	0.375	16.365	7.465	37.521	10.000	1.500	68 30 47.856	Right
28	662645.390	2998153.587	20	0		63725.591	63755.888		63740.740	20	1.515	30.297	1.515	0.000	0.000	7.525	0.000	18.911	10.000	1.500	86 47 43.295	Right
29	662543.545	2998156.486	80	15	63813.764	63828.764	63845.730	63860.730	63837.247	30	0.400	16.966	0.212	0.120	0.094	1.746	7.498	23.721	5.000	0.900	12 09 04.300	Left
30	662465.516	2998126.120	40	15	63888.260	63903.260	63932.720	63947.720	63917.990	20	1.111	29.460	0.736	0.230	0.188	7.357	7.491	32.476	4.444	1.500	42 11 53.365	Right
31	662384.910	2998199.776	40	25	63966.555	63991.555	64033.815	64058.815	64012.685	30	1.682	42.260	1.057	0.650	0.313	20.953	12.459	57.878	10.000	1.500	60 31 58.028	Left
32	662488.854	2998290.891	50	15	64092.823	64107.823	64158.693	64173.693	64133.258	25	1.317	50.870	1.017	0.190	0.150	13.468	7.494	46.343	5.556	1.200	58 17 35.635	Right
33	662434.964	2998397.949	40	25	64183.098	64208.098	64255.421	64280.421	64231.760	30	1.808	47.323	1.183	0.650	0.313	25.730	12.459	64.112	10.000	1.500	67 47 04.787	Left
34	662547.802	2998424.258	50	15	64296.107	64311.107	64347.864	64362.864	64329.486	25	1.035	36.757	0.735	0.190	0.150	7.754	7.494	36.070	5.556	1.200	42 07 14.428	Right
35	662571.414	2998498.848	80	25	64375.473	64400.473	64408.978	64433.978	64404.726	40	0.419	8.505	0.106	0.330	0.156	2.124	12.490	29.562	8.889	0.900	06 05 26.987	Left

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By : RK	TITLE:		
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Drawn By : M.K	Horizontal Alignment Report Lavamore To Pedong Bypass		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH			
R2	15-10-2024	Revised As Per Observation				Approved By : VY			DWG NO: XPL/DSD/WB/KM18.6/HAR/01
						SCALE : NTS	Sheet NO: 01 OF 04		DATE: Dec-2024

HORIZONTAL ALIGNMENT REPORT

HIP No.	HIP Easting	HIP Northing	Radius	Transitio n Length	TS	SC/TC	CS/CT	ST	HIP Chainage	SPEED (V) in KMPH	D	Lc	Dc	SHIFT (S)	Ts(Deg)	EXTERN AL DISTANC E (Es)	K	Ts(m)	Super elevation e (%)	Extra Widenin g	Deflection Angle	Direction of curve
36	662562.784	2998575.427	60	15	64449.773	64464.773	64495.691	64510.691	64480.232	30	0.765	30.918	0.515	0.160	0.125	4.850	7.496	31.710	6.667	1.200	29 31 30.230	Right
37	662641.845	2998678.763	120	15	64588.824	64603.824	64614.254	64629.254	64609.039	40	0.212	10.430	0.087	0.080	0.063	0.757	7.499	20.270	5.926	0.600	04 58 49.259	Left
38	662690.479	2998720.210	80	15	64650.493	64665.493	64679.899	64694.899	64672.696	30	0.368	14.406	0.180	0.120	0.094	1.492	7.498	22.391	5.000	0.900	10 19 05.045	Left
39	662725.208	2998784.172	35	15	64716.002	64731.002	64754.757	64769.757	64742.880	20	1.107	23.755	0.679	0.270	0.214	6.464	7.489	29.290	5.079	1.500	38 53 12.580	Right
40	662815.625	2998781.105	30	20	64792.204	64812.204	64837.526	64857.526	64824.865	20	1.511	25.322	0.844	0.560	0.333	11.977	9.963	38.741	5.926	1.500	48 21 38.757	Left
41	662822.771	2998856.920	60	15	64873.424	64888.424	64900.906	64915.906	64894.665	30	0.458	12.482	0.208	0.160	0.125	1.773	7.496	21.520	6.667	1.200	11 55 11.603	Right
42	662871.525	2998936.081	35	15	64919.168	64934.168	64992.280	65007.280	64963.224	20	2.089	58.112	1.660	0.270	0.214	35.207	7.489	68.193	5.079	1.500	95 07 49.439	Right
43	662712.550	2998941.473	120	15	65054.956	65069.956	65124.318	65139.318	65097.137	40	0.578	54.362	0.453	0.080	0.063	5.276	7.499	43.203	5.926	0.600	25 57 21.080	Left
44	662572.794	2999039.552	250	15	65227.199	65242.199	65291.147	65306.147	65266.673	50	0.256	48.948	0.196	0.040	0.030	2.099	7.500	39.654	4.444	0.600	11 13 05.271	Right
45	662326.623	2999131.125	20	15	65499.934	65514.934	65540.486	65555.486	65527.710	20	2.028	25.552	1.278	0.470	0.375	18.722	7.465	40.334	10.000	1.500	73 11 54.835	Left
46	662314.204	2999087.002	20	0		65542.001	65567.528		65554.765	20	1.276	25.527	1.276	0.000	0.000	4.901	0.000	14.834	10.000	1.500	73 07 51.691	Left
47	662472.346	2999055.967	20	15	65686.918	65701.918	65725.951	65740.951	65713.935	20	1.952	24.033	1.202	0.470	0.375	16.522	7.465	37.711	10.000	1.500	68 50 59.300	Right
48	662463.963	2999014.540	20	0		65727.026	65751.082		65739.054	20	1.203	24.056	1.203	0.000	0.000	4.256	0.000	13.724	10.000	1.500	68 54 56.865	Right
49	662355.900	2999037.196	150	15	65820.406	65835.406	65862.079	65877.079	65848.743	40	0.278	26.673	0.178	0.060	0.050	1.520	7.499	28.479	4.741	0.600	10 11 17.492	Left
50	662253.177	2999029.874	20	15	65922.772	65937.772	65962.962	65977.962	65950.367	20	2.010	25.190	1.260	0.470	0.375	18.169	7.465	39.681	10.000	1.500	72 09 52.118	Right
51	662259.626	2998982.348	20	0		65963.460	65991.958		65977.709	20	1.425	28.498	1.425	0.000	0.000	6.428	0.000	17.276	10.000	1.500	81 38 25.404	Left
52	662349.658	2999016.645	60	15	66046.258	66061.258	66078.889	66093.889	66070.074	30	0.544	17.631	0.294	0.160	0.125	2.455	7.496	24.271	6.667	1.200	16 50 08.699	Right
53	662495.580	2998990.111	20	15	66183.508	66198.508	66228.211	66243.211	66213.360	20	2.235	29.703	1.485	0.470	0.375	26.750	7.465	49.495	10.000	1.500	85 05 34.274	Right
54	662474.137	2998947.818	20	0		66228.909	66251.741		66240.325	20	1.142	22.832	1.142	0.000	0.000	3.768	0.000	12.842	10.000	1.500	65 24 31.926	Right
55	662354.677	2999000.455	40	15	66337.981	66352.981	66383.070	66398.070	66368.026	20	1.127	30.089	0.752	0.230	0.188	7.591	7.491	32.916	4.444	1.500	43 05 57.942	Left
56	662292.801	2998947.034	50	25	66410.844	66435.844	66454.512	66479.512	66445.178	35	0.873	18.668	0.373	0.520	0.250	5.752	12.474	36.053	10.000	1.200	21 23 29.538	Right
57	662178.871	2998965.555	70	15	66507.498	66522.498	66585.782	66600.782	66554.140	30	1.118	63.284	0.904	0.130	0.107	12.730	7.497	51.384	5.714	0.900	51 47 54.810	Left
58	662120.100	2998882.110	80	15	66625.995	66640.995	66661.292	66676.292	66651.144	30	0.441	20.297	0.254	0.120	0.094	2.110	7.498	25.465	5.000	0.900	14 32 12.721	Right
59	662059.929	2998847.980	60	15	66695.334	66710.334	66728.706	66743.706	66719.520	30	0.556	18.372	0.306	0.160	0.125	2.564	7.496	24.672	6.667	1.200	17 32 36.493	Left
60	662020.435	2998775.452	60	15	66768.991	66783.991	66816.479	66831.479	66800.235	30	0.791	32.488	0.541	0.160	0.125	5.199	7.496	32.629	6.667	1.200	31 01 24.419	Right
61	661747.853	2998696.864	180	15	67053.360	67068.360	67096.495	67111.495	67082.428	40	0.240	28.135	0.156	0.050	0.042	1.350	7.500	29.177	3.951	0.600	08 57 20.482	Left
62	661566.678	2998593.048	60	15	67251.958	67266.958	67310.116	67325.116	67288.537	30	0.969	43.158	0.719	0.160	0.125	7.990	7.496	39.172	6.667	1.200	41 12 44.012	Left
63	661548.178	2998365.635	65	15	67353.153	67368.153	67505.168	67520.168	67436.661	30	2.339	137.015	2.108	0.140	0.115	101.704	7.497	160.946	6.154	0.900	120 46 30.537	Right
64	661395.647	2998538.939	60	15	67550.946	67565.946	67609.047	67624.047	67587.497	30	0.968	43.101	0.718	0.160	0.125	7.973	7.496	39.136	6.667	1.200	41 09 30.532	Left
65	661241.139	2998520.421	80	15	67706.132	67721.132	67757.955	67772.955	67739.544	30	0.648	36.823	0.460	0.120	0.094	4.514	7.498	34.395	5.000	0.900	26 22 20.888	Left
66	661092.776	2998377.398	60	15	67860.317	67875.317	67969.095	67984.095	67922.206	30	1.813	93.778	1.563	0.160	0.125	37.580	7.496	84.325	6.667	1.200	89 33 04.849	Right
67	661005.003	2998528.968	60	15	67989.382	68004.382	68099.079	68114.079	68051.731	30	1.828	94.697	1.578	0.160	0.125	38.547	7.496	85.549	6.667	1.200	90 25 41.538	Left
68	660817.524	2998342.619	90	15	68265.395	68280.395	68304.673	68319.673	68292.534	35	0.436	24.278	0.270	0.100	0.083	2.289	7.498	27.477	6.049	0.900	15 27 21.922	Left
69	660758.412	2998181.679	45	15	68412.686	68427.686	68481.606	68496.606	68454.646	25	1.532	53.920	1.198	0.210	0.167	17.718	7.493	50.963	6.173	1.200	68 39 11.634	Right
70	660644.155	2998218.627	30	15	68518.445	68533.445	68573.638	68588.638	68553.542	20	1.840	40.193	1.340	0.310	0.250	20.024	7.484	47.280	5.926	1.500	76 45 47.712	Left

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK		TITLE: Horizontal Alignment Report Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K			
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH			
R2	15-10-2024	Revised As Per Observation				Approved By : VY		DWG NO: XPL/DSD/WB/KM18.6/HAR/02	
						SCALE : NTS		Sheet NO: 02 OF 04	DATE: Dec-2024

HORIZONTAL ALIGNMENT REPORT

HIP No.	HIP Easting	HIP Northing	Radius	Transitio n Length	TS	SC/TC	CS/CT	ST	HIP Chainage	SPEED (V) in KMPH	D	Lc	Dc	SHIFT (S)	Ts(Deg)	EXTERN AL DISTANC E (Es)	K	Ts(m)	Super elevation e (%)	Extra Widenin g	Deflection Angle	Direction of curve
71	660632.660	2997956.229	20	15	68772.957	68787.957	68815.091	68830.091	68801.524	20	2.107	27.134	1.357	0.470	0.375	21.382	7.465	43.429	10.000	1.500	77 43 58.465	Right
72	660585.890	2997965.938	20	0		68816.947	68842.273		68829.610	20	1.266	25.326	1.266	0.000	0.000	4.809	0.000	14.679	10.000	1.500	72 33 10.286	Right
73	660623.571	2998099.401	40	25	68928.032	68953.032	68974.254	68999.254	68963.643	30	1.156	21.222	0.531	0.650	0.313	8.527	12.459	38.963	10.000	1.500	30 23 51.833	Left
74	660503.931	2998198.230	150	15	69088.063	69103.063	69127.636	69142.636	69115.350	40	0.264	24.573	0.164	0.060	0.050	1.375	7.499	27.409	4.741	0.600	09 23 10.577	Right
75	660394.667	2998352.402	50	15	69260.226	69275.226	69323.067	69338.067	69299.147	25	1.257	47.841	0.957	0.190	0.150	12.042	7.494	43.967	5.556	1.200	54 49 15.467	Left
76	660166.515	2998281.186	60	25	69491.652	69516.652	69545.304	69570.304	69530.978	35	0.894	28.652	0.478	0.430	0.208	7.018	12.482	41.457	9.074	1.200	27 21 39.873	Right
77	660091.507	2998331.588	50	15	69580.766	69595.766	69636.032	69651.032	69615.899	25	1.105	40.266	0.805	0.190	0.150	8.969	7.494	38.450	5.556	1.200	46 08 30.445	Left
78	660026.037	2998294.650	80	15	69667.945	69682.945	69692.342	69707.342	69687.644	30	0.305	9.397	0.117	0.120	0.094	1.061	7.498	19.810	5.000	0.900	06 43 47.032	Right
79	659961.546	2998280.991	120	15	69723.532	69738.532	69767.838	69782.838	69753.185	40	0.369	29.306	0.244	0.080	0.063	2.156	7.499	29.922	5.926	0.600	13 59 33.859	Left
80	659881.233	2998228.608	100	25	69815.939	69840.939	69856.029	69881.029	69848.484	40	0.401	15.090	0.151	0.260	0.125	2.309	12.493	32.864	7.111	0.900	08 38 46.037	Right
81	659732.541	2998202.005	120	35	69953.363	69988.363	70008.885	70043.885	69998.624	50	0.463	20.522	0.171	0.430	0.146	3.726	17.488	45.856	9.259	0.600	09 47 55.431	Left
82	659630.610	2998126.157	125	25	70096.701	70121.701	70128.254	70153.254	70124.978	40	0.252	6.553	0.052	0.210	0.100	1.214	12.496	28.383	5.689	0.600	03 00 12.719	Left
83	659553.221	2998030.192	40	15	70180.028	70195.028	70258.824	70273.824	70226.926	20	1.970	63.796	1.595	0.230	0.188	32.761	7.491	68.119	4.444	1.500	91 22 47.847	Right
84	659494.538	2998139.405	80	15	70282.485	70297.485	70356.090	70371.090	70326.788	30	0.920	58.605	0.733	0.120	0.094	9.416	7.498	47.196	5.000	0.900	41 58 23.714	Left
85	659374.877	2998158.429	120	25	70417.154	70442.154	70447.751	70472.751	70444.953	40	0.255	5.597	0.047	0.220	0.104	1.204	12.495	27.906	5.926	0.600	02 40 19.581	Right
86	659228.932	2998222.319	60	15	70581.790	70596.790	70610.882	70625.882	70603.836	30	0.485	14.092	0.235	0.160	0.125	1.972	7.496	22.374	6.667	1.200	13 27 25.139	Left
87	659105.595	2998213.394	230	25	70679.445	70704.445	70749.318	70774.318	70726.882	50	0.304	44.873	0.195	0.110	0.054	2.790	12.499	47.723	4.831	0.600	11 10 41.607	Left
88	658973.916	2998161.405	120	25	70834.171	70859.171	70876.641	70901.641	70867.906	40	0.354	17.470	0.146	0.220	0.104	2.127	12.495	33.994	5.926	0.600	08 20 27.244	Right
89	658863.382	2998158.960	80	25	70923.091	70948.091	71001.154	71026.154	70974.623	40	0.976	53.063	0.663	0.330	0.156	10.941	12.490	55.120	8.889	0.900	38 00 13.943	Left
90	658750.479	2997985.523	90	25	71062.608	71087.608	71215.700	71240.700	71151.654	40	1.701	128.092	1.423	0.290	0.139	46.886	12.492	115.378	7.901	0.900	81 32 45.102	Right
91	658585.297	2998127.317	160	15	71310.405	71325.405	71360.205	71375.205	71342.805	40	0.311	34.800	0.218	0.060	0.047	2.018	7.499	32.612	4.444	0.600	12 27 43.464	Left
92	658463.678	2998178.464	80	15	71436.438	71451.438	71494.802	71509.802	71473.120	30	0.730	43.364	0.542	0.120	0.094	5.763	7.498	38.093	5.000	0.900	31 03 24.336	Left
93	658289.494	2998118.521	35	15	71568.232	71583.232	71649.187	71664.187	71616.210	20	2.313	65.955	1.884	0.270	0.214	52.617	7.489	87.693	5.079	1.500	107 58 13.476	Right
94	658400.186	2998372.667	120	25	71811.488	71836.488	71869.656	71894.656	71853.072	40	0.485	33.168	0.276	0.220	0.104	3.839	12.495	42.217	5.926	0.600	15 50 10.147	Left
95	658389.601	2998515.533	120	25	71964.698	71989.698	72001.352	72026.352	71995.525	40	0.305	11.654	0.097	0.220	0.104	1.636	12.495	31.000	5.926	0.600	05 33 52.687	Right
96	658420.235	2998645.488	160	25	72095.064	72120.064	72137.387	72162.387	72128.726	40	0.265	17.323	0.108	0.160	0.078	1.571	12.497	33.805	4.444	0.600	06 12 11.104	Right
97	658502.947	2998798.336	60	25	72270.784	72295.784	72307.533	72332.533	72301.659	35	0.612	11.749	0.196	0.430	0.208	3.379	12.482	31.589	9.074	1.200	11 13 11.642	Left
98	658484.476	2998956.197	60	25	72424.758	72449.758	72467.773	72492.773	72458.766	35	0.717	18.015	0.300	0.430	0.208	4.532	12.482	35.122	9.074	1.200	17 12 13.518	Left
99	658421.422	2999013.470	150	25	72511.770	72536.770	72548.670	72573.670	72542.720	40	0.246	11.900	0.079	0.170	0.083	1.313	12.497	31.062	4.741	0.600	04 32 43.436	Right
100	658376.215	2999081.368	150	15	72600.182	72615.182	72633.030	72648.030	72624.106	40	0.219	17.848	0.119	0.060	0.050	0.964	7.499	23.996	4.741	0.600	06 49 02.603	Left
101	658297.202	2999157.131	80	15	72707.510	72722.510	72743.808	72758.808	72733.159	30	0.454	21.298	0.266	0.120	0.094	2.227	7.498	25.992	5.000	0.900	15 15 11.211	Right
102	658265.388	2999243.567	70	15	72789.433	72804.433	72842.595	72857.595	72823.514	30	0.759	38.162	0.545	0.130	0.107	5.509	7.497	35.486	5.714	0.900	31 14 09.172	Left
103	658160.151	2999295.531	80	15	72900.292	72915.292	72960.550	72975.550	72937.921	30	0.753	45.258	0.566	0.120	0.094	6.158	7.498	39.184	5.000	0.900	32 24 47.963	Right
104	658105.250	2999441.872	80	25	73044.067	73069.067	73111.663	73136.663	73090.365	40	0.845	42.596	0.532	0.330	0.156	8.074	12.490	48.602	8.889	0.900	30 30 25.420	Right
105	658223.300	2999665.322	60	20	73285.410	73305.410	73362.849	73382.849	73334.130	30	1.291	57.439	0.957	0.280	0.167	15.453	9.991	55.373	6.667	1.200	54 51 03.341	Left

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK		TITLE: Horizontal Alignment Report Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K			
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH			
R2	15-10-2024	Revised As Per Observation				Approved By : VY		DWG NO: XPL/DSD/WB/KM18.6/HAR/03	
						SCALE : NTS		Sheet NO: 03 OF 04	DATE: Dec-2024

HORIZONTAL ALIGNMENT REPORT

HIP No.	HIP Easting	HIP Northing	Radius	Transitio n Length	TS	SC/TC	CS/CT	ST	HIP Chainage	SPEED (V) in KMPH	D	Lc	Dc	SHIFT (S)	Ts(Deg)	EXTERN AL DISTANC E (Es)	K	Ts(m)	Super elevation e (%)	Extra Widenin g	Deflection Angle	Direction of curve
106	658014.696	2999866.055	180	15	73536.572	73551.572	73675.076	73690.076	73613.324	40	0.769	123.504	0.686	0.050	0.042	14.250	7.500	80.404	3.951	0.600	39 18 45.310	Right
107	658004.313	3000161.251	120	15	73822.905	73837.905	73956.388	73971.388	73897.147	40	1.112	118.483	0.987	0.080	0.063	21.391	7.499	82.146	5.926	0.600	56 34 18.882	Left
108	657797.675	3000254.342	120	15	74058.240	74073.240	74153.179	74168.179	74113.210	40	0.791	79.939	0.666	0.080	0.063	10.129	7.499	57.643	5.926	0.600	38 10 03.733	Right
109	657749.505	3000383.738	300	15	74220.075	74235.075	74262.067	74277.067	74248.571	50	0.140	26.992	0.090	0.030	0.025	0.766	7.500	28.532	3.704	0.600	05 09 18.252	Left
110	657602.087	3000655.944	120	15	74509.859	74524.859	74588.357	74603.357	74556.608	40	0.654	63.498	0.529	0.080	0.063	6.802	7.499	48.237	5.926	0.600	30 19 05.703	Left
111	657484.264	3000708.603	80	25	74631.585	74656.585	74705.670	74730.670	74681.128	40	0.926	49.085	0.614	0.330	0.156	9.784	12.490	52.593	8.889	0.900	35 09 15.711	Right
112	657428.967	3000950.832	120	25	74881.676	74906.676	74944.800	74969.800	74925.738	40	0.526	38.124	0.318	0.220	0.104	4.502	12.495	44.865	5.926	0.600	18 12 09.385	Right
113	657481.345	3001119.208	100	25	75050.992	75075.992	75123.074	75148.074	75099.533	40	0.721	47.082	0.471	0.260	0.125	7.144	12.493	50.279	7.111	0.900	26 58 33.479	Left
114	657404.410	3001291.843	250	25	75188.241	75213.241	75353.938	75378.938	75283.590	50	0.663	140.697	0.563	0.100	0.050	14.491	12.499	98.554	4.444	0.600	32 14 43.192	Right
115	657476.275	3001581.049	250	25	75503.671	75528.671	75625.572	75650.572	75577.122	50	0.488	96.901	0.388	0.100	0.050	7.722	12.499	74.711	4.444	0.600	22 12 29.470	Right
116	657592.889	3001711.051	800	0		75740.595	75760.405		75750.500	50	0.025	19.810	0.025	0.000	0.000	0.061	0.000	9.906	2.500	0.000	01 25 07.701	Right
117	657715.340	3001840.941	300	15	75900.500	75915.500	75936.637	75951.637	75926.069	50	0.120	21.137	0.070	0.030	0.025	0.575	7.500	25.592	3.704	0.600	04 02 12.795	Right
118	658048.306	3002108.959	350	25	76250.230	76275.230	76433.191	76458.191	76354.211	50	0.523	157.961	0.451	0.070	0.036	12.378	12.499	106.140	3.175	0.000	25 51 30.482	Left
119	658165.684	3002411.312	200	25	76621.469	76646.469	76705.016	76730.016	76675.743	50	0.418	58.547	0.293	0.130	0.063	4.576	12.498	54.918	5.556	0.600	16 46 21.390	Right
120	658307.095	3002551.978	150	25	76806.737	76831.737	76912.628	76937.628	76872.183	40	0.706	80.891	0.539	0.170	0.083	10.036	12.497	67.819	4.741	0.600	30 53 52.480	Left
121	658322.687	3002741.443	80	15	77022.545	77037.545	77079.645	77094.645	77058.595	30	0.714	42.100	0.526	0.120	0.094	5.508	7.498	37.370	5.000	0.900	30 09 05.504	Right
122	658431.843	3002848.341	90	15	77177.393	77192.393	77226.419	77241.419	77209.406	35	0.545	34.026	0.378	0.100	0.083	3.548	7.498	32.664	6.049	0.900	21 39 43.418	Left
123	658469.344	3002994.533	80	25	77325.545	77350.545	77367.658	77392.658	77359.102	40	0.526	17.113	0.214	0.330	0.156	3.195	12.490	34.135	8.889	0.900	12 15 23.703	Right
124	658540.997	3003067.323	60	25	77415.521	77440.521	77474.978	77499.978	77457.750	35	0.991	34.457	0.574	0.430	0.208	8.691	12.482	45.141	9.074	1.200	32 54 13.645	Left
125	658517.153	3003177.347	70	15	77524.554	77539.554	77589.935	77604.935	77564.745	30	0.934	50.381	0.720	0.130	0.107	8.540	7.497	42.857	5.714	0.900	41 14 15.154	Right
126	658609.275	3003282.254	300	25	77662.240	77687.240	77715.981	77740.981	77701.611	50	0.179	28.741	0.096	0.090	0.042	1.298	12.499	39.450	3.704	0.600	05 29 20.814	Left
127	658686.985	3003411.466	500	25	77805.697	77830.697	77873.812	77898.812	77852.255	50	0.136	43.115	0.086	0.050	0.025	1.212	12.500	46.613	2.500	0.000	04 56 26.273	Left
128	658768.028	3003600.390	500	25	78023.391	78048.391	78067.121	78092.121	78057.756	50	0.087	18.730	0.037	0.050	0.025	0.529	12.500	34.381	2.500	0.000	02 08 46.531	Right
129	658850.342	3003753.719	200	25	78197.887	78222.887	78240.461	78265.461	78231.674	50	0.213	17.574	0.088	0.130	0.063	1.269	12.498	33.880	5.556	0.600	05 02 04.600	Left
130	658889.908	3003891.407	35	25	78326.929	78351.929	78394.859	78419.859	78373.394	30	1.941	42.930	1.227	0.740	0.357	28.263	12.447	64.647	10.000	1.500	70 16 42.480	Right
131	658970.879	3003867.001	35	0		78396.641	78448.438		78422.540	20	1.480	51.797	1.480	0.000	0.000	12.394	0.000	31.955	5.079	1.500	84 47 32.812	Right
132	658887.921	3003734.389	100	15	78544.076	78559.076	78583.158	78598.158	78571.117	35	0.391	24.082	0.241	0.090	0.075	2.032	7.499	27.310	5.444	0.900	13 47 52.426	Left
133	658871.048	3003635.013	500	25	78609.397	78634.397	78708.560	78733.560	78671.479	50	0.198	74.163	0.148	0.050	0.025	2.519	12.500	62.249	2.500	0.000	08 29 54.247	Right
134	658802.439	3003456.280	30	15	78827.522	78842.522	78879.838	78894.838	78861.180	20	1.744	37.316	1.244	0.310	0.250	17.113	7.484	43.553	5.926	1.500	71 16 04.027	Left
135	658871.398	3003423.524	30	0		78881.316	78933.647		78907.482	20	1.744	52.331	1.744	0.000	0.000	16.645	0.000	35.718	5.926	1.500	99 56 42.314	Left
136	658873.572	3003532.860	150	25	78962.333	78987.333	79019.784	79044.784	79003.559	40	0.383	32.451	0.216	0.170	0.083	2.966	12.497	41.612	4.741	0.600	12 23 43.533	Right
137	658958.296	3003731.648	45	15	79088.750	79103.750	79206.002	79221.002	79154.876	25	2.606	102.252	2.272	0.210	0.167	125.733	7.493	172.131	6.173	1.200	130 11 30.788	Left
138	659080.799	3003335.294	38	15	79282.380	79297.380	79387.933	79402.933	79342.657	25	2.778	90.553	2.383	0.250	0.197	173.397	7.490	215.398	7.310	1.500	136 32 04.676	Right
139	659098.226	3003606.717	80	15	79433.356	79448.356	79470.007	79485.007	79459.182	30	0.458	21.651	0.271	0.120	0.094	2.269	7.498	26.179	5.000	0.900	15 30 25.027	Right
140	659128.912	3003660.032	0	0																		

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK		TITLE: Horizontal Alignment Report Lavamore To Pedong Bypass	
Drawn By : M.K									
Checked By : AH									
Approved By : VY		DWG NO: XPL/DSD/WB/KM18.6/HAR/04							
SCALE : NTS		Sheet NO: 04 OF 04				DATE: Dec-2024			
R0	30-08-2024	Draft Detailed Report							
R1	21-09-2024	Revised Draft Detailed Report							
R2	15-10-2024	Revised As Per Observation							

VERTICAL ALIGNMENT REPORT											
S.NO	VIP CHAINAGE	VIP LEVEL	CURVE START CHAINAGE	CURVE END CHAINAGE	Gradient Start Chainage	Gradient End Chainage	CURVE LENGTH	IN GRADE(%)	OUT GRADE (%)	CURVE TYPE	K Value
1	61230.868	2179.144	61153.989	61307.747	61307.747	61153.989	154	3.675	6.078	Sag	64.000
2	61450.000	2192.462	61390.000	61510.000	61510.000	61390.000	120	6.078	5.112	Hog	124.194
3	61753.103	2207.955	61628.103	61878.103	61878.103	61628.103	250	5.112	-5.055	Hog	24.590
4	62065.791	2192.148	62005.791	62125.791	62125.791	62005.791	120	-5.055	-3.967	Sag	110.266
5	62391.462	2179.228	62331.462	62451.462	62451.462	62331.462	120	-3.967	-4.872	Hog	132.538
6	62647.841	2166.736	62587.841	62707.841	62707.841	62587.841	120	-4.872	-5.435	Hog	213.190
7	62851.583	2155.662	62791.583	62911.583	62911.583	62791.583	120	-5.435	-5.314	Sag	986.789
8	63144.850	2140.078	63034.850	63254.850	63254.850	63034.850	220	-5.314	-5.358	Hog	4966.599
9	63467.644	2122.783	63377.644	63557.644	63557.644	63377.644	180	-5.358	-2.491	Sag	62.775
10	63841.816	2113.464	63751.816	63931.816	63931.816	63751.816	180	-2.491	-5.972	Hog	51.703
11	64252.681	2088.926	64142.681	64362.681	64362.681	64142.681	220	-5.972	-5.699	Sag	806.841
12	64556.139	2071.631	64466.139	64646.139	64646.139	64466.139	180	-5.699	-5.518	Sag	994.090
13	64774.356	2059.589	64684.356	64864.356	64864.356	64684.356	180	-5.518	-5.878	Hog	500.286
14	64997.963	2046.445	64887.963	65107.963	65107.963	64887.963	220	-5.878	-1.397	Sag	49.097
15	65260.635	2042.775	65170.635	65350.635	65350.635	65170.635	180	-1.397	-4.806	Hog	52.810
16	65462.460	2033.076	65402.460	65522.460	65522.460	65402.460	120	-4.806	-2.486	Sag	51.728
17	65590.220	2029.900	65555.220	65625.220	65625.220	65555.220	70	-2.486	-5.747	Hog	21.468
18	65668.633	2025.394	65638.633	65698.633	65698.633	65638.633	60	-5.747	-2.529	Sag	18.649
19	65760.620	2023.068	65720.620	65800.620	65800.620	65720.620	80	-2.529	-5.579	Hog	26.233
20	65890.407	2015.827	65840.407	65940.407	65940.407	65840.407	100	-5.579	-2.428	Sag	31.738
21	66008.720	2012.954	65968.720	66048.720	66048.720	65968.720	80	-2.428	-3.327	Hog	88.967
22	66166.095	2007.718	66126.095	66206.095	66206.095	66126.095	80	-3.327	-2.046	Sag	62.467
23	66321.371	2004.541	66271.371	66371.371	66371.371	66271.371	100	-2.046	-5.268	Hog	31.039
24	66630.775	1988.240	66520.775	66740.775	66740.775	66520.775	220	-5.268	-4.143	Sag	195.467
25	67003.741	1972.789	66913.741	67093.741	67093.741	66913.741	180	-4.143	-5.358	Hog	148.082
26	67260.000	1959.058	67150.000	67370.000	67370.000	67150.000	220	-5.358	-2.088	Sag	67.271
27	67667.630	1950.547	67557.630	67777.630	67777.630	67557.630	220	-2.088	-4.765	Hog	82.192
28	67868.438	1940.979	67788.438	67948.438	67948.438	67788.438	160	-4.765	-4.474	Sag	550.156
29	68148.333	1928.457	68048.333	68248.333	68248.333	68048.333	200	-4.474	-5.861	Hog	144.216
30	68410.494	1913.093	68320.494	68500.494	68500.494	68320.494	180	-5.861	-5.038	Sag	218.826
31	68664.495	1900.296	68614.495	68714.495	68714.495	68614.495	100	-5.038	-1.953	Sag	32.419
32	68858.127	1896.514	68798.127	68918.127	68918.127	68798.127	120	-1.953	-4.067	Hog	56.769
33	69019.640	1889.944	68969.640	69069.640	69069.640	68969.640	100	-4.067	-2.799	Sag	78.859
34	69258.975	1883.245	69208.975	69308.975	69308.975	69208.975	100	-2.799	-4.302	Hog	66.560
35	69540.750	1871.124	69450.750	69630.750	69630.750	69450.750	180	-4.302	-4.416	Hog	1575.186

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK		TITLE: Vertical Alignment Report Lavamore To Pedong Bypass	
Drawn By : M.K									
Checked By : AH									
Approved By : VY		Dwg No: XPL/DSD/WB/KM18.6/VAR/01							
SCALE : NTS		Sheet No: 01 OF 02							
		DATE: Dec-2024							

VERTICAL ALIGNMENT REPORT											
S.NO	VIP CHAINAGE	VIP LEVEL	CURVE START CHAINAGE	CURVE END CHAINAGE	Gradient Start Chainage	Gradient End Chainage	CURVE LENGTH	IN GRADE(%)	OUT GRADE (%)	CURVE TYPE	K Value
36	69775.681	1860.750	69715.681	69835.681	69835.681	69715.681	120	-4.416	-4.318	Sag	1223.210
37	70050.062	1848.903	69970.062	70130.062	70130.062	69970.062	160	-4.318	-5.347	Hog	155.424
38	70257.887	1837.790	70197.887	70317.887	70317.887	70197.887	120	-5.347	-5.913	Hog	212.014
39	70541.155	1821.040	70451.155	70631.155	70631.155	70451.155	180	-5.913	-4.981	Sag	193.183
40	70780.000	1809.142	70720.000	70840.000	70840.000	70720.000	120	-4.981	-4.648	Sag	360.307
41	70935.000	1801.937	70875.000	70995.000	70995.000	70875.000	120	-4.648	-5.389	Hog	162.118
42	71091.330	1794.836	71051.330	71131.330	71131.330	71051.330	80	-2.834	-0.758	Sag	38.538
43	71272.418	1793.464	71176.830	71368.006	71368.006	71176.830	191.176	-0.758	-4.635	Hog	49.308
44	71510.678	1782.421	71460.678	71560.678	71560.678	71460.678	100	-4.635	-2.067	Sag	38.937
45	71681.024	1778.900	71621.024	71741.024	71741.024	71621.024	120	-2.067	-3.852	Hog	67.202
46	71845.000	1772.583	71805.000	71885.000	71885.000	71805.000	80	-3.852	-2.646	Sag	66.310
47	72013.446	1768.127	71953.446	72073.446	72073.446	71953.446	120	-2.646	-2.407	Sag	501.802
48	72193.745	1763.788	72133.745	72253.745	72253.745	72133.745	120	-2.407	-1.738	Sag	179.446
49	72362.709	1760.851	72302.709	72422.709	72422.709	72302.709	120	-1.738	-4.239	Hog	47.983
50	72544.627	1753.140	72454.627	72634.627	72634.627	72454.627	180	-4.239	1.902	Sag	29.311
51	72859.992	1759.139	72784.992	72934.992	72934.992	72784.992	150	1.902	-2.014	Hog	38.301
52	73048.834	1755.336	72958.834	73138.834	73138.834	72958.834	180	-2.014	4.217	Sag	28.888
53	73386.258	1769.565	73286.258	73486.258	73486.258	73286.258	200	4.217	0.275	Hog	50.738
54	73996.532	1771.243	73781.947	74211.117	74211.117	73781.947	429.17	0.275	-5.954	Hog	68.893
55	74450.135	1744.234	74325.135	74575.135	74575.135	74325.135	250	-5.954	-5.14	Sag	306.789
56	74960.000	1718.029	74760.000	75160.000	75160.000	74760.000	400	-5.14	2.606	Sag	51.642
57	75538.653	1733.110	75478.653	75598.653	75598.653	75478.653	120	2.606	3.871	Sag	94.877
58	75749.481	1741.271	75659.481	75839.481	75839.481	75659.481	180	3.871	-4.745	Hog	20.891
59	76011.763	1728.825	75951.763	76071.763	76071.763	75951.763	120	-4.745	-4.539	Sag	580.401
60	76386.875	1711.800	76206.875	76566.875	76566.875	76206.875	360	-4.539	-5.405	Hog	415.378
61	77081.981	1674.229	76961.981	77201.981	77201.981	76961.981	240	-5.405	-5.998	Hog	404.721
62	77402.021	1655.032	77292.021	77512.021	77512.021	77292.021	220	-5.998	-6.035	Hog	5912.171
63	77689.057	1637.708	77599.057	77779.057	77779.057	77599.057	180	-6.035	-5.759	Sag	651.237
64	78013.097	1619.046	77923.097	78103.097	78103.097	77923.097	180	-5.759	-6.059	Hog	600.126
65	78285.239	1602.557	78195.239	78375.239	78375.239	78195.239	180	-6.059	-2.492	Sag	50.462
66	78546.176	1596.055	78456.176	78636.176	78636.176	78456.176	180	-2.492	-6.094	Hog	49.968
67	78750.973	1583.574	78690.973	78810.973	78810.973	78690.973	120	-6.094	-4.666	Sag	84.031
68	78943.557	1574.588	78883.557	79003.557	79003.557	78883.557	120	-4.666	-6.18	Hog	79.290
69	79134.057	1562.816	79074.057	79194.057	79194.057	79074.057	120	-6.18	-5.928	Sag	476.449
70	79362.875	1549.252	79302.875	79422.875	79422.875	79302.875	120	-5.928	-5.945	Hog	6974.161

R.No.	Date	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Design By : RK	TITLE: Vertical Alignment Report Lavamore To Pedong Bypass	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised As Per Observation				Approved By : VY	Dwg No: XPL/DSD/WB/KM18.6/VAR/02	
						SCALE : NTS	Sheet No: 02 OF 02	DATE: Dec-2024

TYPICAL CROSS SECTION

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
1	61+100	61+180	80.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
2	61+180	61+240	60.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
3	61+240	61+340	100.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
4	61+340	61+360	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
5	61+360	61+420	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
6	61+420	61+440	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
7	61+440	61+520	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
8	61+520	61+540	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
9	61+540	61+620	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
10	61+620	61+640	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
11	61+640	61+780	140.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
12	61+780	61+800	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
13	61+800	61+840	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
14	61+840	61+880	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
15	61+880	61+940	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
16	61+940	61+960	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
17	61+960	61+980	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
18	61+980	62+040	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
19	62+040	62+080	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
20	62+080	62+120	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
21	62+120	62+140	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
22	62+140	62+160	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
23	62+160	62+240	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
24	62+240	62+280	40.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)

Rev. No	Date	Revision Details	CLIENT: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK	TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK		
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH		
R2	15-10-2024	Revised As Per Observation				APR BY : VY	DWG NO: XPL/DSD/WB/KM18.6/TCS/01	
						SCALE : NTS	SHEET: 01 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
25	62+280	62+300	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
26	62+300	62+330	30.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
27	62+330	62+360	30.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
28	62+360	62+380	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
29	62+380	62+420	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
30	62+420	62+460	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
31	62+460	62+520	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
32	62+520	62+560	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
33	62+560	62+620	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
34	62+620	62+760	140.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
35	62+760	62+780	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
36	62+780	62+900	120.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
37	62+900	62+930	30.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
38	62+930	63+040	110.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
39	63+040	63+080	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
40	63+080	63+100	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
41	63+100	63+300	200.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
42	63+300	63+320	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
43	63+320	63+400	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
44	63+400	63+460	60.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
45	63+460	63+550	90.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
46	63+550	63+560	10.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
47	63+560	63+580	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
48	63+580	63+620	40.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)			
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK					
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH					
R2	15-10-2024	Revised As Per Observation						APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/02	
								SCALE : NTS		SHEET: 02 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
49	63+620	63+640	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
50	63+640	63+730	90.00	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
51	63+730	63+760	30.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
52	63+760	63+800	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
53	63+800	63+840	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
54	63+840	63+930	90.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
55	63+930	63+980	50.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
56	63+980	64+000	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
57	64+000	64+040	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
58	64+040	64+060	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
59	64+060	64+100	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
60	64+100	64+140	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
61	64+140	64+180	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
62	64+180	64+220	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
63	64+220	64+240	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
64	64+240	64+300	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
65	64+300	64+340	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
66	64+340	64+400	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
67	64+400	64+420	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
68	64+420	64+560	140.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
69	64+560	64+580	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
70	64+580	64+600	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
71	64+600	64+640	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
72	64+640	64+660	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/03	
						SCALE : NTS		SHEET: 03 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
73	64+660	64+700	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
74	64+700	64+720	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
75	64+720	64+760	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
76	64+760	64+780	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
77	64+780	64+800	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
78	64+800	64+820	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
79	64+820	64+840	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
80	64+840	64+860	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
81	64+860	64+940	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
82	64+940	65+080	140.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
83	65+080	65+120	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
84	65+120	65+140	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
85	65+140	65+180	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
86	65+180	65+540	360.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
87	65+540	65+570	30.00	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
88	65+570	65+640	70.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
89	65+640	65+720	80.00	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
90	65+720	65+740	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
91	65+740	65+880	140.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
92	65+880	65+940	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
93	65+940	65+960	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
94	65+960	66+100	140.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
95	66+100	66+120	20.00	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
96	66+120	66+140	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK		
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH		
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/04
						SCALE : NTS		SHEET: 04 OF 14
								Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
97	66+140	66+160	20.00	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
98	66+160	66+180	20.00	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
99	66+180	66+240	60.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
100	66+240	66+360	120.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
101	66+360	66+440	80.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
102	66+440	66+460	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
103	66+460	66+520	60.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
104	66+520	66+600	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
105	66+600	66+620	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
106	66+620	66+720	100.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
107	66+720	66+740	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
108	66+740	66+760	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
109	66+760	66+940	180.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
110	66+940	66+980	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
111	66+980	67+040	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
112	67+040	67+080	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
113	67+080	67+160	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
114	67+160	67+180	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
115	67+180	67+320	140.00	TCS-6	Typical Cross Section -6, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope(RHS) (Sinking Zone)
116	67+320	67+340	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
117	67+340	67+360	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
118	67+360	67+420	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
119	67+420	67+460	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
120	67+460	67+500	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/05	
						SCALE : NTS		SHEET: 05 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
121	67+500	67+540	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
122	67+540	67+580	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
123	67+580	67+600	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
124	67+600	67+620	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
125	67+620	67+680	60.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
126	67+680	67+740	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
127	67+740	67+760	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
128	67+760	67+780	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
129	67+780	67+840	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
130	67+840	67+860	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
131	67+860	67+880	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
132	67+880	67+900	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
133	67+900	67+980	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
134	67+980	68+000	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
135	68+000	68+040	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
136	68+040	68+080	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
137	68+080	68+100	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
138	68+100	68+120	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
139	68+120	68+140	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
140	68+140	68+160	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
141	68+160	68+220	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
142	68+220	68+240	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
143	68+240	68+260	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
144	68+260	68+300	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK		
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH		
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/06
						SCALE : NTS		SHEET: 06 OF 14
								Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
145	68+300	68+340	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
146	68+340	68+420	80.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
147	68+420	68+440	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
148	68+440	68+510	70.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
149	68+510	68+540	30.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
150	68+540	68+720	180.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
151	68+720	68+760	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
152	68+760	68+900	140.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
153	68+900	68+920	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
154	68+920	68+940	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
155	68+940	69+000	60.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
156	69+000	69+080	80.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
157	69+080	69+120	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
158	69+120	69+160	40.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
159	69+160	69+200	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
160	69+200	69+240	40.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
161	69+240	69+260	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
162	69+260	69+340	80.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
163	69+340	69+420	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
164	69+420	69+440	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
165	69+440	69+460	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
166	69+460	69+500	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
167	69+500	69+620	120.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
168	69+620	69+640	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/07	
						SCALE : NTS		SHEET: 07 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
145	68+300	68+340	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
146	68+340	68+420	80.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
147	68+420	68+440	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
148	68+440	68+510	70.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
149	68+510	68+540	30.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
150	68+540	68+720	180.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
151	68+720	68+760	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
152	68+760	68+900	140.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
153	68+900	68+920	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
154	68+920	68+940	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
155	68+940	69+000	60.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
156	69+000	69+080	80.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
157	69+080	69+120	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
158	69+120	69+160	40.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
159	69+160	69+200	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
160	69+200	69+240	40.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
161	69+240	69+260	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
162	69+260	69+340	80.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
163	69+340	69+420	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
164	69+420	69+440	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
165	69+440	69+460	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
166	69+460	69+500	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
167	69+500	69+620	120.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
168	69+620	69+640	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/08	
						SCALE : NTS		SHEET: 08 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
169	69+640	69+720	80.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
170	69+720	69+740	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
171	69+740	69+760	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
172	69+760	69+850	90.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
173	69+850	69+990	140.00	VIADUCT	VIADUCT
174	69+990	70+020	30.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
175	70+020	70+060	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
176	70+060	70+120	60.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
177	70+120	70+160	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
178	70+160	70+300	140.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
179	70+300	70+320	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
180	70+320	70+380	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
181	70+380	70+420	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
182	70+420	70+440	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
183	70+440	70+470	30.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
184	70+470	70+500	30.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
185	70+500	70+520	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
186	70+520	70+540	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
187	70+540	70+640	100.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
188	70+640	70+660	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
189	70+660	70+800	140.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
190	70+800	70+870	70.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
191	70+870	70+900	30.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
192	70+900	71+020	120.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
193	71+020	71+040	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/09	
						SCALE : NTS		SHEET: 09 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
194	71+040	71+060	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
195	71+060	71+080	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
196	71+080	71+130	50.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
197	71+130	71+140	10.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
198	71+140	71+160	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
199	71+160	71+260	100.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
200	71+260	71+300	40.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
201	71+300	71+320	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
202	71+320	71+340	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
203	71+340	71+540	200.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
204	71+540	71+560	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
205	71+560	71+580	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
206	71+580	71+600	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
207	71+600	71+620	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
208	71+620	71+740	120.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
209	71+740	71+780	40.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
210	71+780	71+960	180.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
211	71+960	71+980	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
212	71+980	72+040	60.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
213	72+040	72+060	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
214	72+060	72+080	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
215	72+080	72+260	180.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
216	72+260	72+300	40.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
217	72+300	72+320	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/10	
						SCALE : NTS		SHEET: 10 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
218	72+320	72+340	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
219	72+340	72+360	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
220	72+360	72+380	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
221	72+380	72+420	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
222	72+420	72+440	20.00	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
223	72+440	72+460	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
224	72+460	72+480	20.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
225	72+480	72+500	20.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
226	72+500	72+520	20.00	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
227	72+520	72+560	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
228	72+560	72+600	40.00	TCS-4A	Typical Cross Section -4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
229	72+600	72+640	40.00	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
230	72+640	72+800	160.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
231	72+800	72+820	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
232	72+820	72+920	100.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
233	72+920	72+970	50.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
234	72+970	73+000	30.00	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
235	73+000	73+020	20.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
236	73+020	73+040	20.00	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
237	73+040	73+100	60.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
238	73+100	73+160	60.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
239	73+160	73+220	60.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
240	73+220	73+320	100.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
241	73+320	73+380	60.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/11	
						SCALE : NTS		SHEET: 11 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
242	73+380	73+420	40.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
243	73+420	73+480	60.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
244	73+480	73+560	80.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
245	73+560	73+580	20.00	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
246	73+580	73+760	180.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
247	73+760	73+780	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
248	73+780	73+840	60.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
249	73+840	73+900	60.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
250	73+900	73+940	40.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
251	73+940	74+080	140.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
252	74+080	74+120	40.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
253	74+120	74+140	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
254	74+140	74+240	100.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
255	74+240	74+260	20.00	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
256	74+260	74+280	20.00	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
257	74+280	74+300	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
258	74+300	74+480	180.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
259	74+480	74+500	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
260	74+500	74+520	20.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
261	74+520	74+540	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
262	74+540	74+560	20.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
263	74+560	74+580	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
264	74+580	74+600	20.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
265	74+600	74+620	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK	TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK		
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH		
R2	15-10-2024	Revised As Per Observation				APR BY : VY	DWG NO: XPL/DSD/WB/KM18.6/TCS/12	
						SCALE : NTS	SHEET: 12 OF 14	Date: Dec-2024

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
266	74+620	74+780	160.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
267	74+780	74+800	20.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
268	74+800	74+850	50.00	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
269	74+850	74+880	30.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
270	74+880	75+020	140.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
271	75+020	75+060	40.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
272	75+060	75+300	240.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
273	75+300	75+320	20.00	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
274	75+320	75+380	60.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
275	75+380	75+420	40.00	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
276	75+420	75+630	210.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
277	75+630	75+640	10.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)

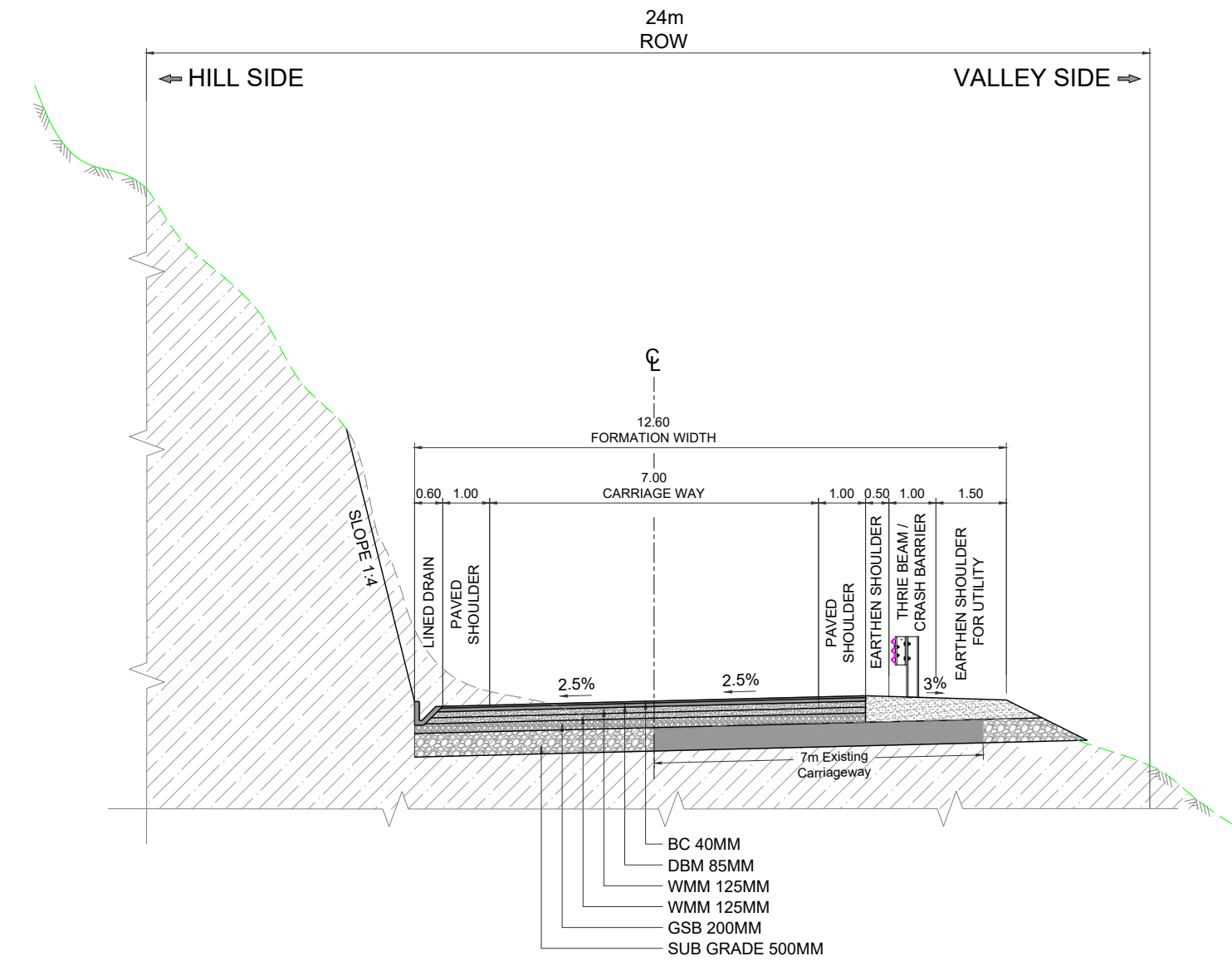
Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
278	75+640	75+750	110.00	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
279	75+750	76+310	560.00	VIADUCT	VIADUCT
280	76+310	76+470	160.00	TCS-7	Typical Cross Section -7, 2 Lane Highway (Open Country Mountainous/Steep Terrain) U-Type Retaining Wall (New Construction)
281	76+470	77+070	600.00	VIADUCT	VIADUCT
282	77+070	77+160	90.00	TCS-7	Typical Cross Section -7, 2 Lane Highway (Open Country Mountainous/Steep Terrain) U-Type Retaining Wall (New Construction)
283	77+160	77+200	40.00	TCS-2B	Typical Cross Section -2B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS) (New Construction)
284	77+200	77+260	60.00	TCS-1B	Typical Cross Section -1B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS) (New Consruction)
285	77+260	77+280	20.00	TCS-4B	Typical Cross Section -4B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS) (New Construction)
286	77+280	77+300	20.00	TCS-5	Typical Cross Section -5, 2 Lane Highway (Open Country Mountainous/Steep Terrain)Both Side Breast Wall (New Construction)
287	77+300	77+340	40.00	TCS-4B	Typical Cross Section -4B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS) (New Construction)
288	77+340	77+540	200.00	TCS-5	Typical Cross Section -5, 2 Lane Highway (Open Country Mountainous/Steep Terrain)Both Side Breast Wall (New Construction)
289	77+540	77+640	100.00	TCS-1B	Typical Cross Section -1B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS) (New Consruction)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)			
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK					
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH					
R2	15-10-2024	Revised As Per Observation						APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/13	
								SCALE : NTS		SHEET: 13 OF 14	
										Date: Dec-2024	

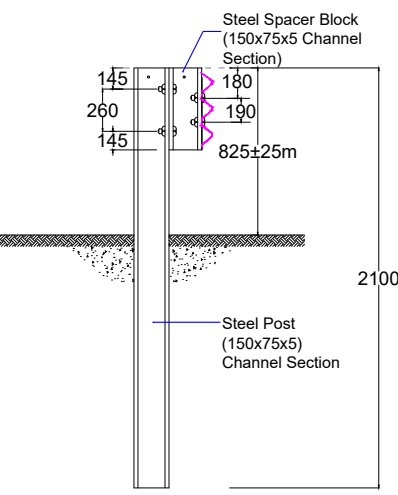
Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
290	77+640	77+780	140.00	TCS-5	Typical Cross Section -5, 2 Lane Highway (Open Country Mountainous/Steep Terrain)Both Side Breast Wall (New Construction)
291	77+780	77+800	20.00	TCS-4B	Typical Cross Section -4B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS) (New Construction)
292	77+800	77+840	40.00	TCS-5	Typical Cross Section -5, 2 Lane Highway (Open Country Mountainous/Steep Terrain)Both Side Breast Wall (New Construction)
293	77+840	77+880	40.00	TCS-4B	Typical Cross Section -4B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS) (New Construction)
294	77+880	78+260	380.00	TCS-5	Typical Cross Section -5, 2 Lane Highway (Open Country Mountainous/Steep Terrain)Both Side Breast Wall (New Construction)
295	78+260	78+380	120.00	TCS-1B	Typical Cross Section -1B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS) (New Consruction)
296	78+380	79+300	920.00	TCS-5	Typical Cross Section -5, 2 Lane Highway (Open Country Mountainous/Steep Terrain)Both Side Breast Wall (New Construction)

Lavamore To Pedong Bypass TCS Details					
S.No.	Chainage		Length(m)	Type of TCS	DESCRIPTION
	From	To			
297	79+300	79+320	20.00	TCS-4C	Typical Cross Section -4C, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS) (New Construction)
298	79+320	79+340	20.00	TCS-1B	Typical Cross Section -1B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS) (New Consruction)
299	79+340	79+380	40.00	TCS-5	Typical Cross Section -5, 2 Lane Highway (Open Country Mountainous/Steep Terrain)Both Side Breast Wall (New Construction)
300	79+380	79+400	20.00	TCS-2	Typical Cross Section -2, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
301	79+400	79+450	50.00	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
302	79+450	79+520	70.00	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)

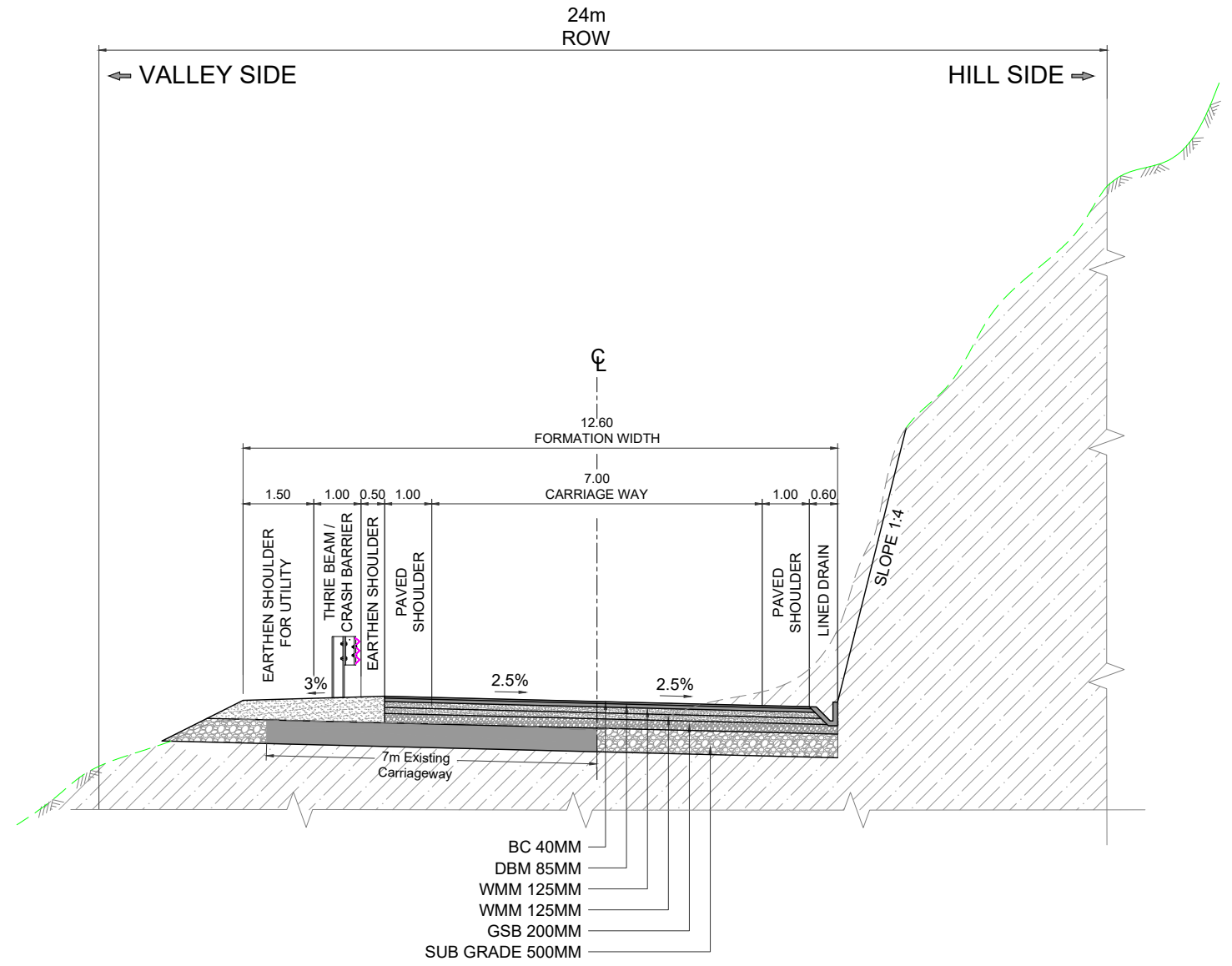
Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	DGN BY : RK		TITLE: TCS Schedule Lavamore To Pedong Bypass West Bengal (WB) (61+100 To 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/14	
						SCALE : NTS		SHEET: 14 OF 14	Date: Dec-2024



TYPICAL CROSS SECTION-1
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE SLOPE(LHS)
AND VALLEY SIDE SLOPE(RHS)

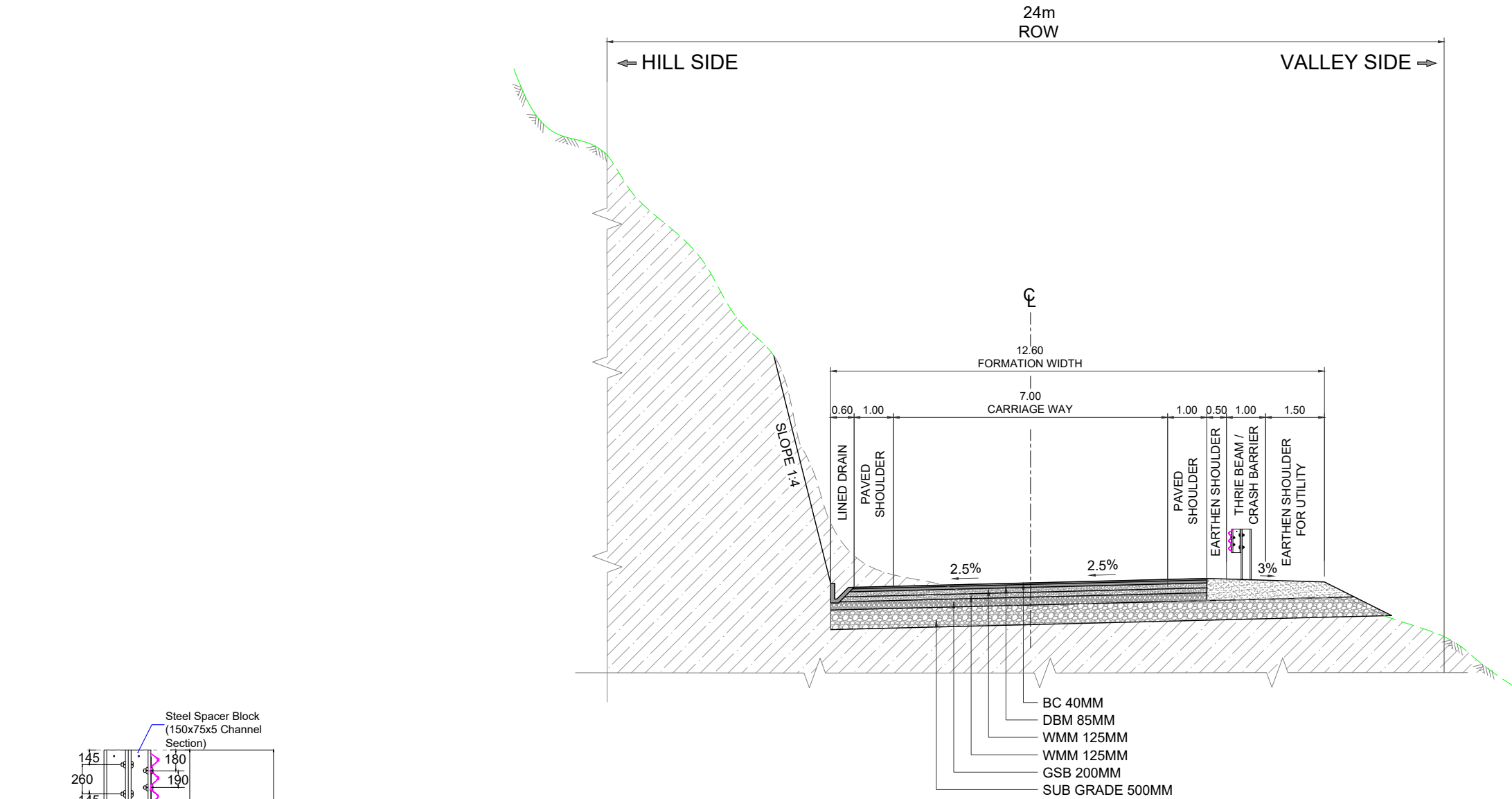


THRIE BEAM/
CRASH BARRIER



TYPICAL CROSS SECTION-1A
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE SLOPE(LHS)
AND HILL SIDE SLOPE(RHS)

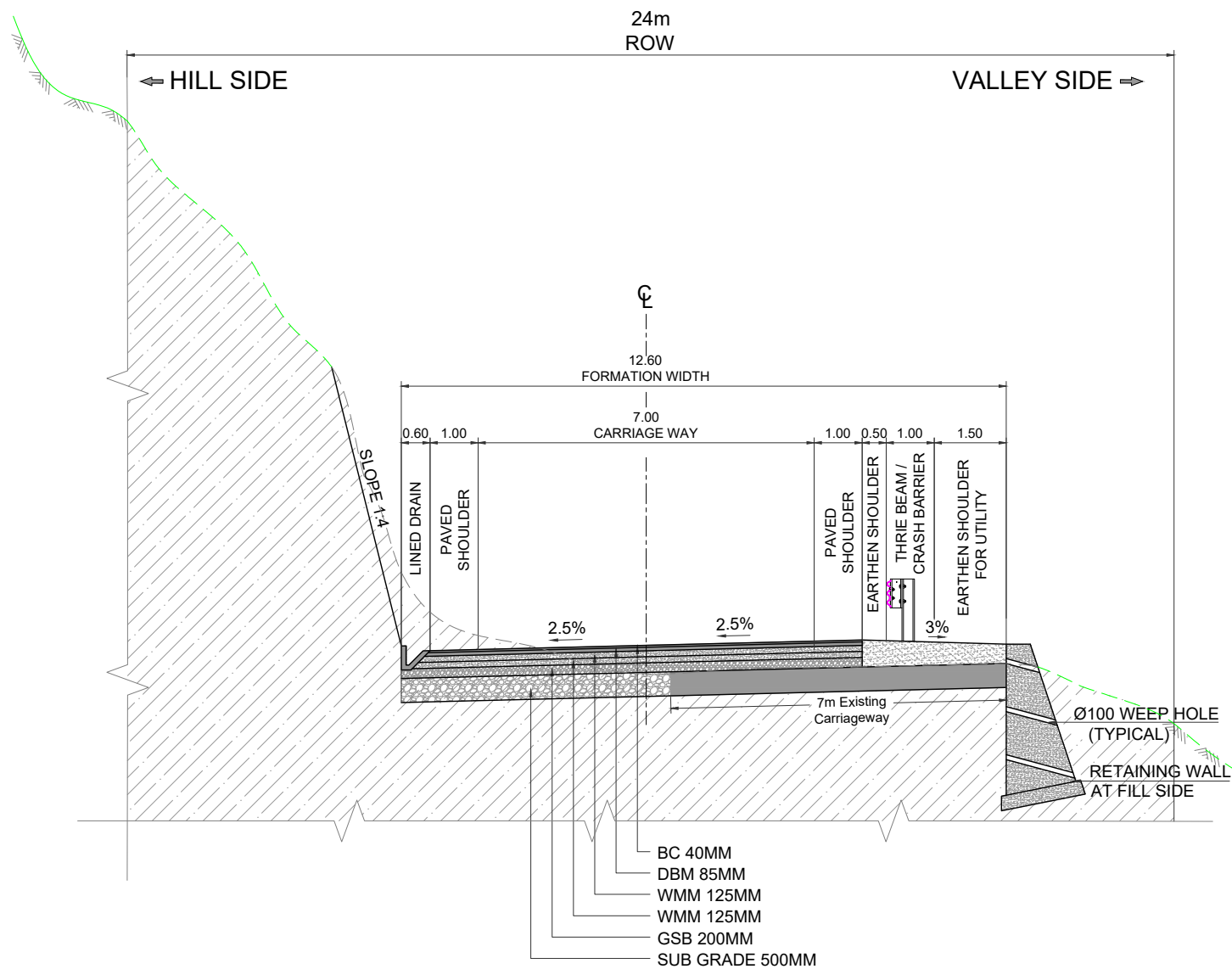
Rev. No	Date	Revision Details	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY : RK	TITLE:		
R0	30-08-2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	DRN BY : MK	Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)		
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY			DWG NO: XPL/DSD/WB/KM18.6/TCS/01
							SCALE : NTS	SHEET: 01 OF 10	Date: Dec-2024



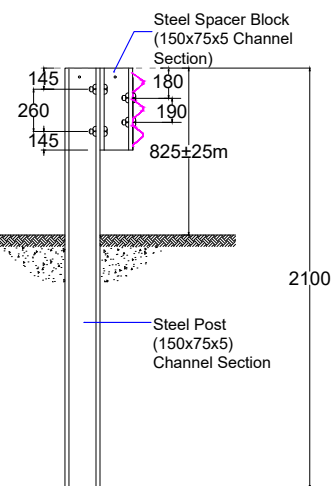
TYPICAL CROSS SECTION-1B
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE SLOPE(LHS)
AND VALLEY SIDE SLOPE(RHS)

THRIE BEAM/
CRASH BARRIER

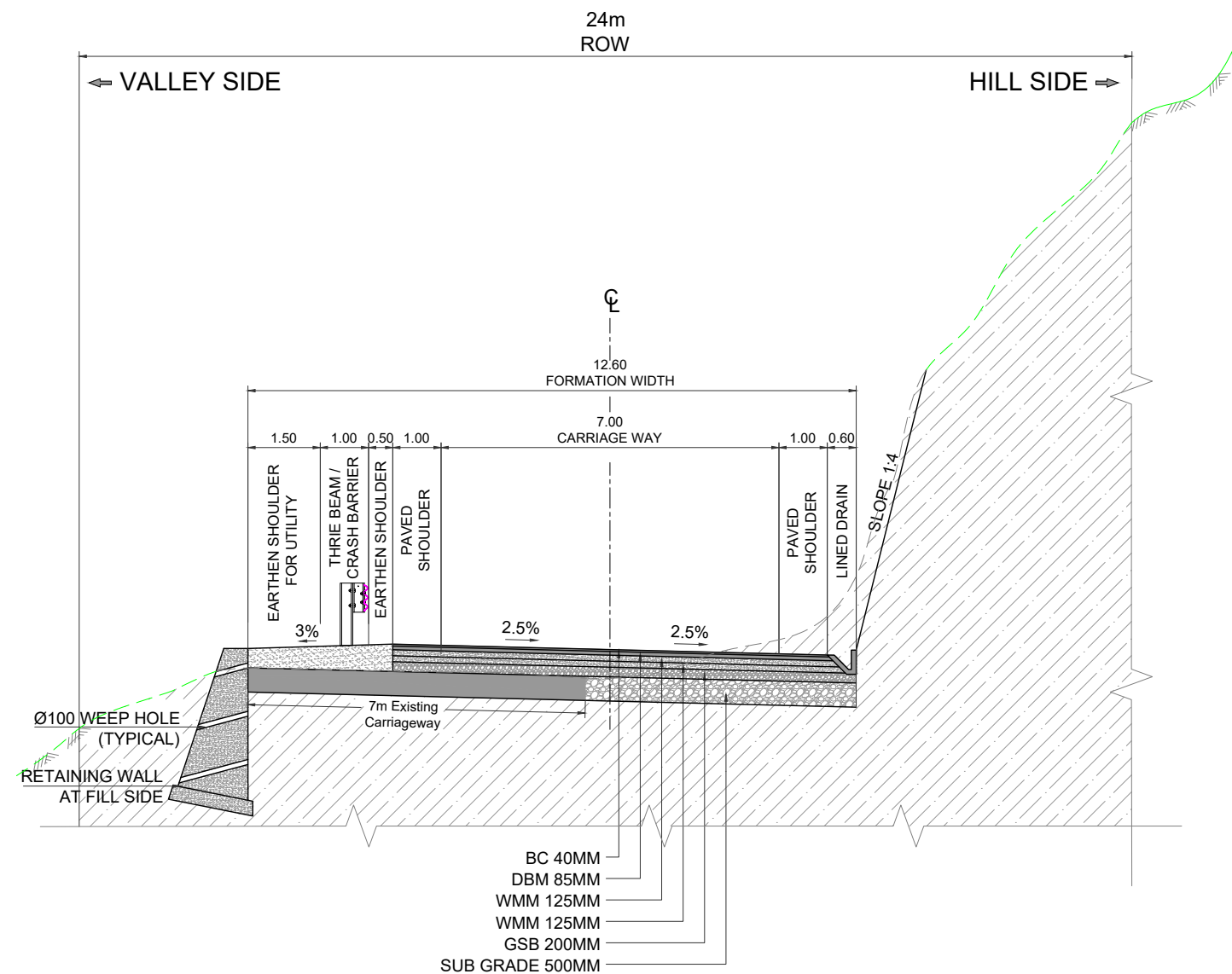
Rev. No	Date	Revision Details	CLIENT: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	DGN BY : RK	TITLE: Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)
						DRN BY : MK	
						CHK BY : AH	
						APR BY : VY	DWG NO: XPL/DSD/WB/KM18.6/TCS/02
						SCALE : NTS	SHEET: 02 OF 10 Date: Dec-2024



TYPICAL CROSS SECTION-2
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE SLOPE(LHS)
AND VALLEY SIDE RETAINING WALL(RHS)

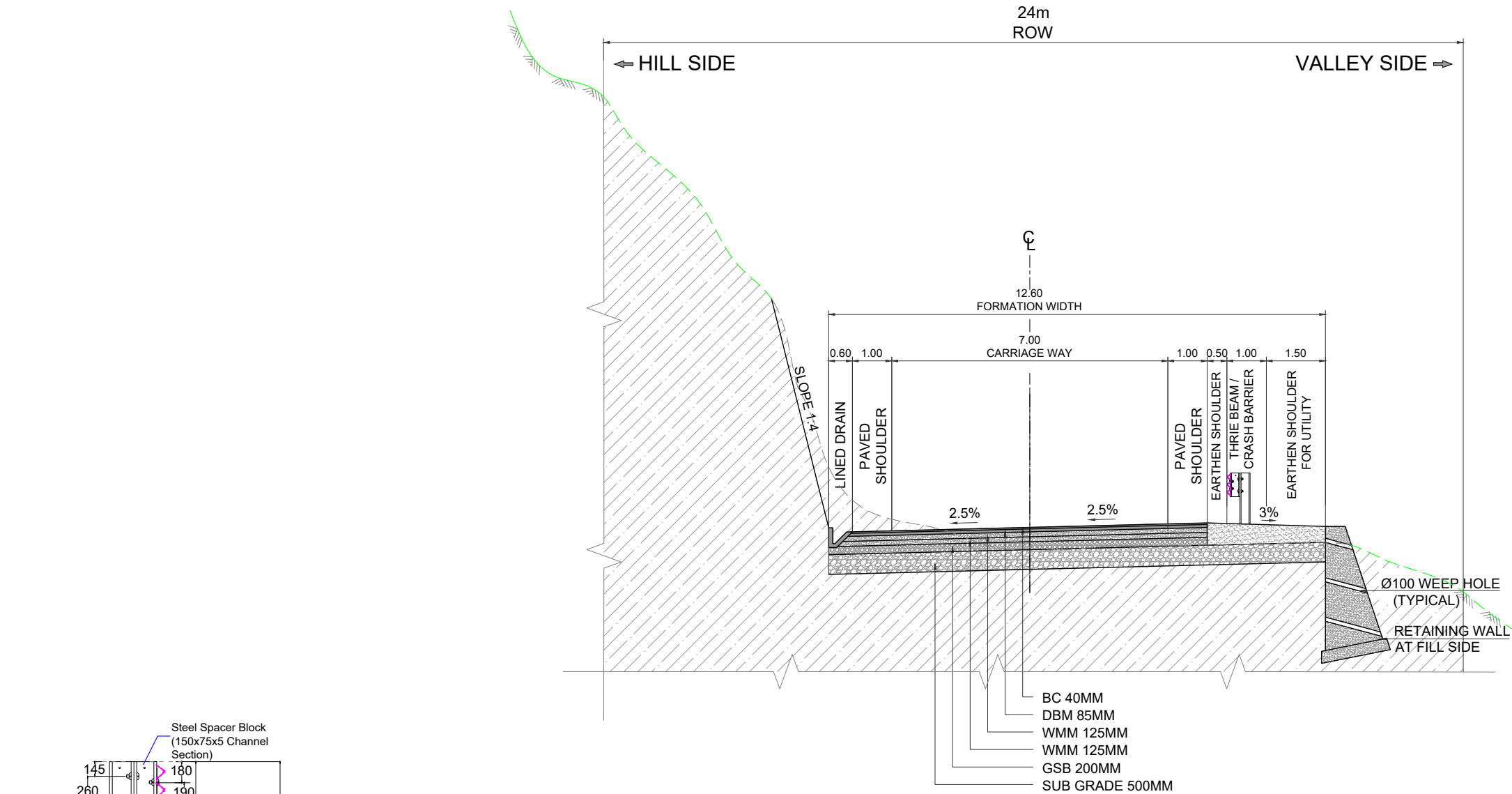


THRIE BEAM/
CRASH BARRIER



TYPICAL CROSS SECTION-2A
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE RETAINING WALL(LHS)
AND HILL SIDE SLOPE(RHS)

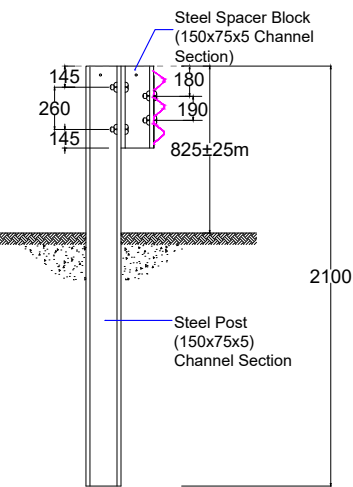
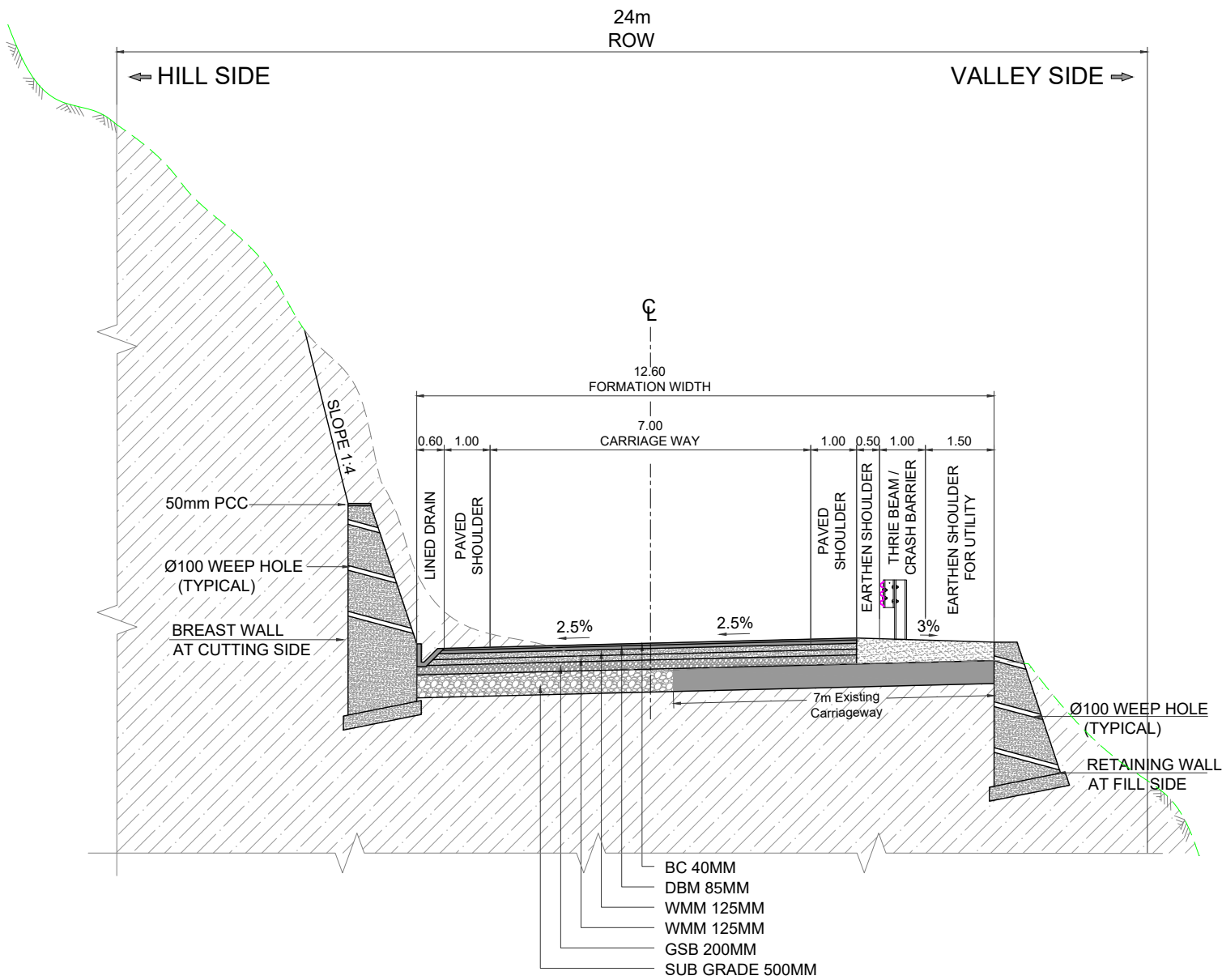
Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK		TITLE: Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				APR BY : VY		DWG NO: XPL/DSD/WB/KM18.6/TCS/03	
						SCALE : NTS		SHEET: 03 OF 10	Date: Dec-2024



TYPICAL CROSS SECTION-2B
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE SLOPE(LHS)
AND VALLEY SIDE RETAINING WALL(RHS)

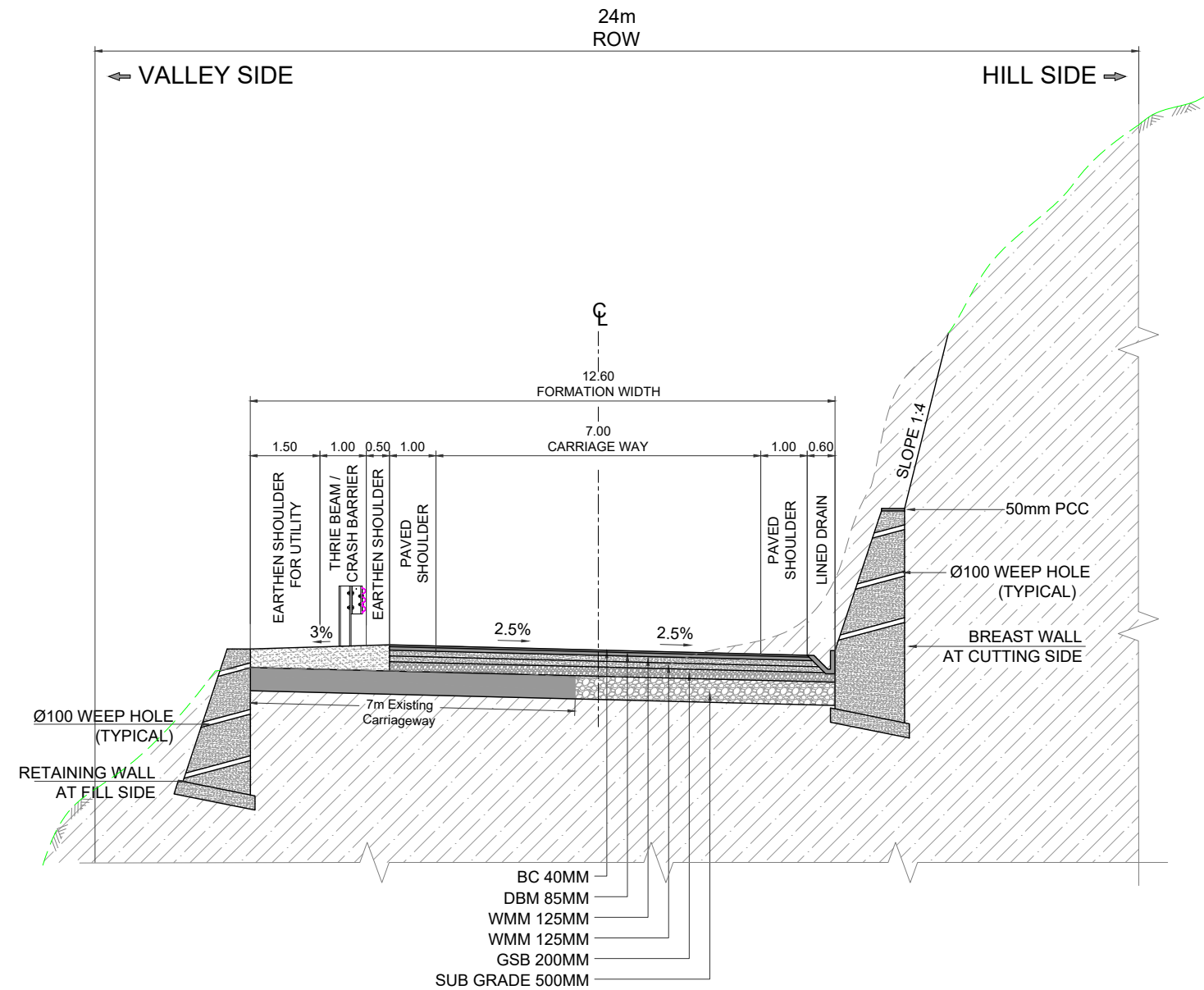
THRIE BEAM/
CRASH BARRIER

Rev. No	Date	Revision Details	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY : RK	TITLE:	
R0	30-08-2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	DRN BY : MK	Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)	
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH		
R2	15-10-2024	Revised As Per Observation				APR BY : VY		
						SCALE : NTS	SHEET: 04 OF 10	Date: Dec-2024



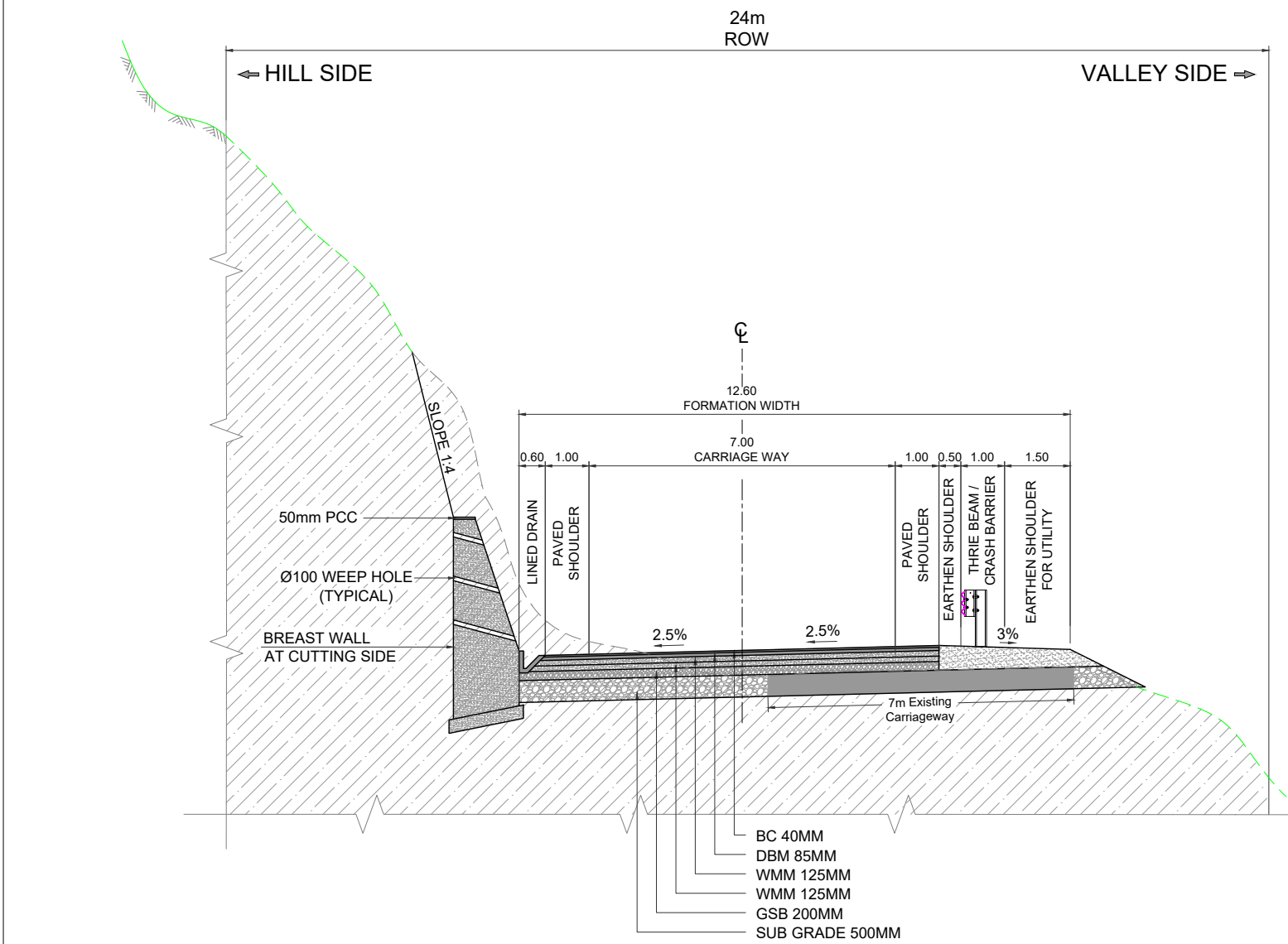
THRIE BEAM/
CRASH BARRIER

TYPICAL CROSS SECTION-3
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE BREAST WALL(LHS)
AND VALLEY SIDE RETAINING WALL(RHS)

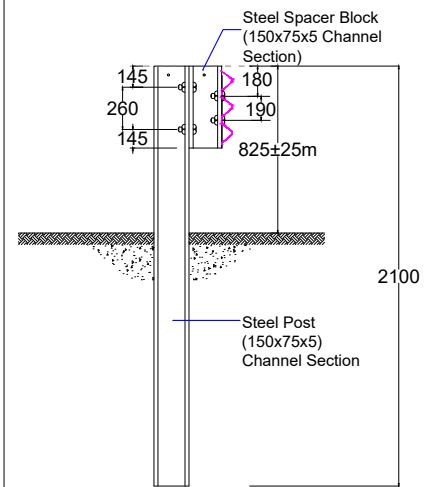


TYPICAL CROSS SECTION-3A
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE RETAINING WALL(LHS)
AND HILL SIDE BREAST WALL(RHS)

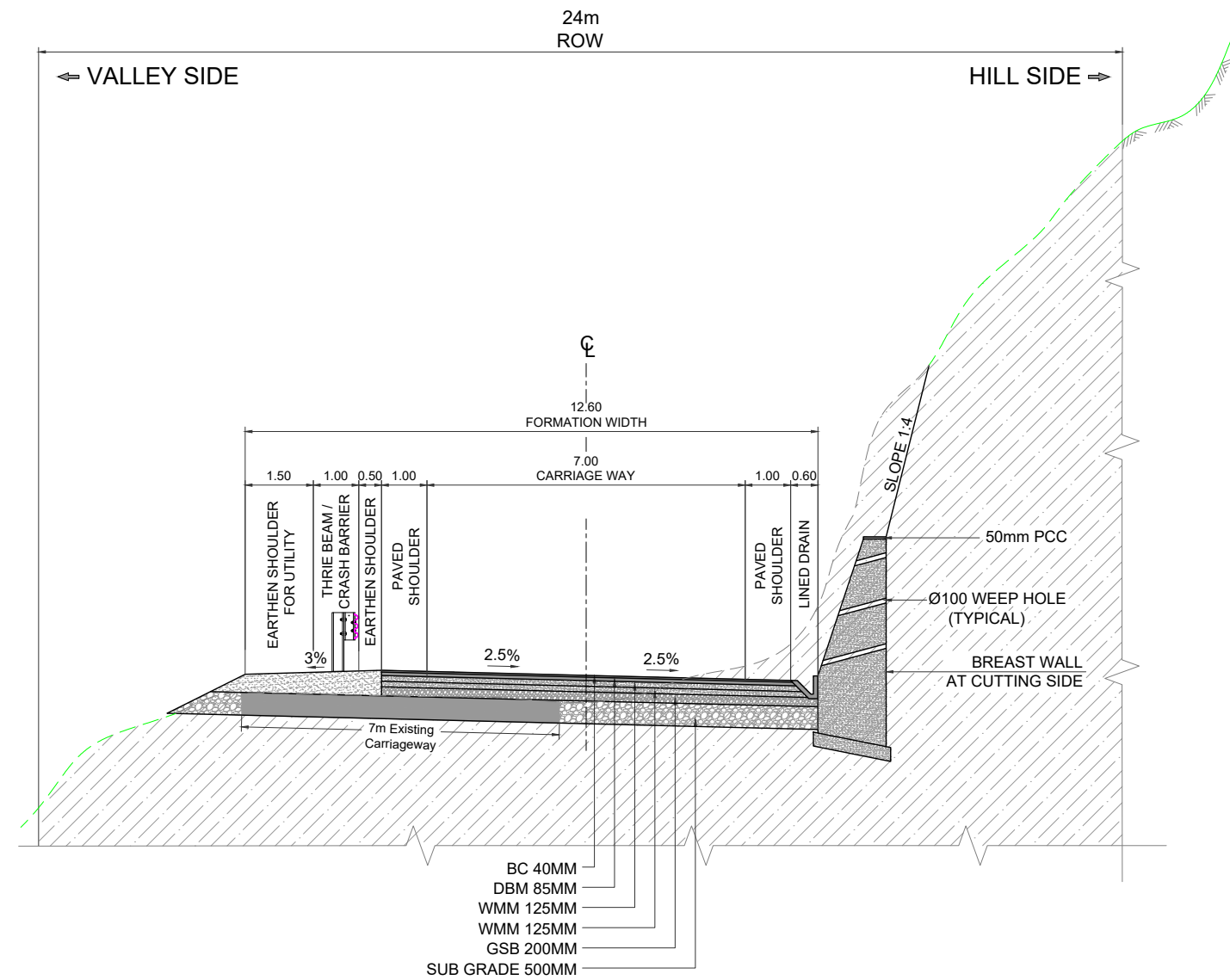
Rev. No	Date	Revision Details	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY : RK	TITLE:	
R0	30-08-2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)		
R1	21-09-2024	Revised Draft Detailed Project Report						
R2	15-10-2024	Revised As Per Observation						
						DWG NO: XPL/DSD/WB/KM18.6/TCS/05		
			Uttar Pradesh – 201301			SCALE : NTS	SHEET: 05 OF 10	Date: Dec-2024



TYPICAL CROSS SECTION-4
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE BREAST WALL(LHS)
AND VALLEY SIDE SLOPE(RHS)

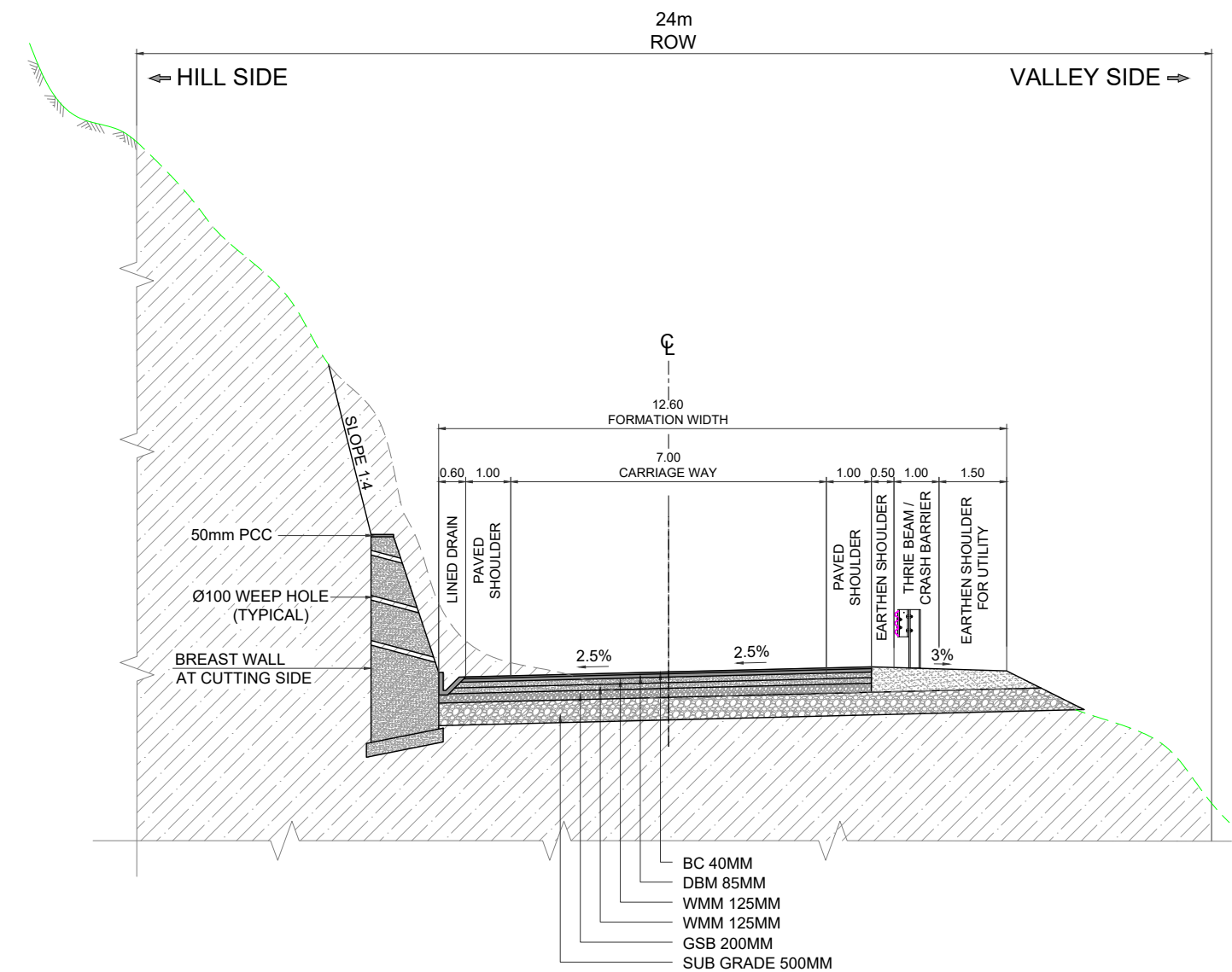


THRIE BEAM/
CRASH BARRIER

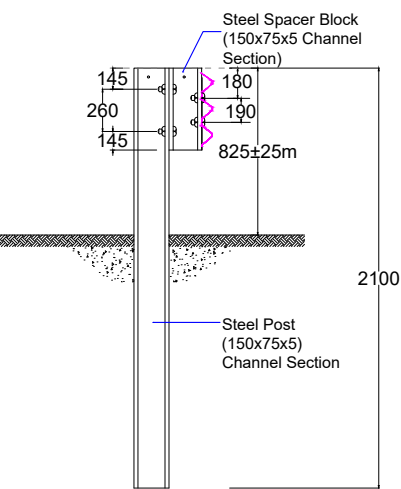


TYPICAL CROSS SECTION-4A
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE SLOPE(LHS)
AND HILL SIDE BREAST WALL(RHS)

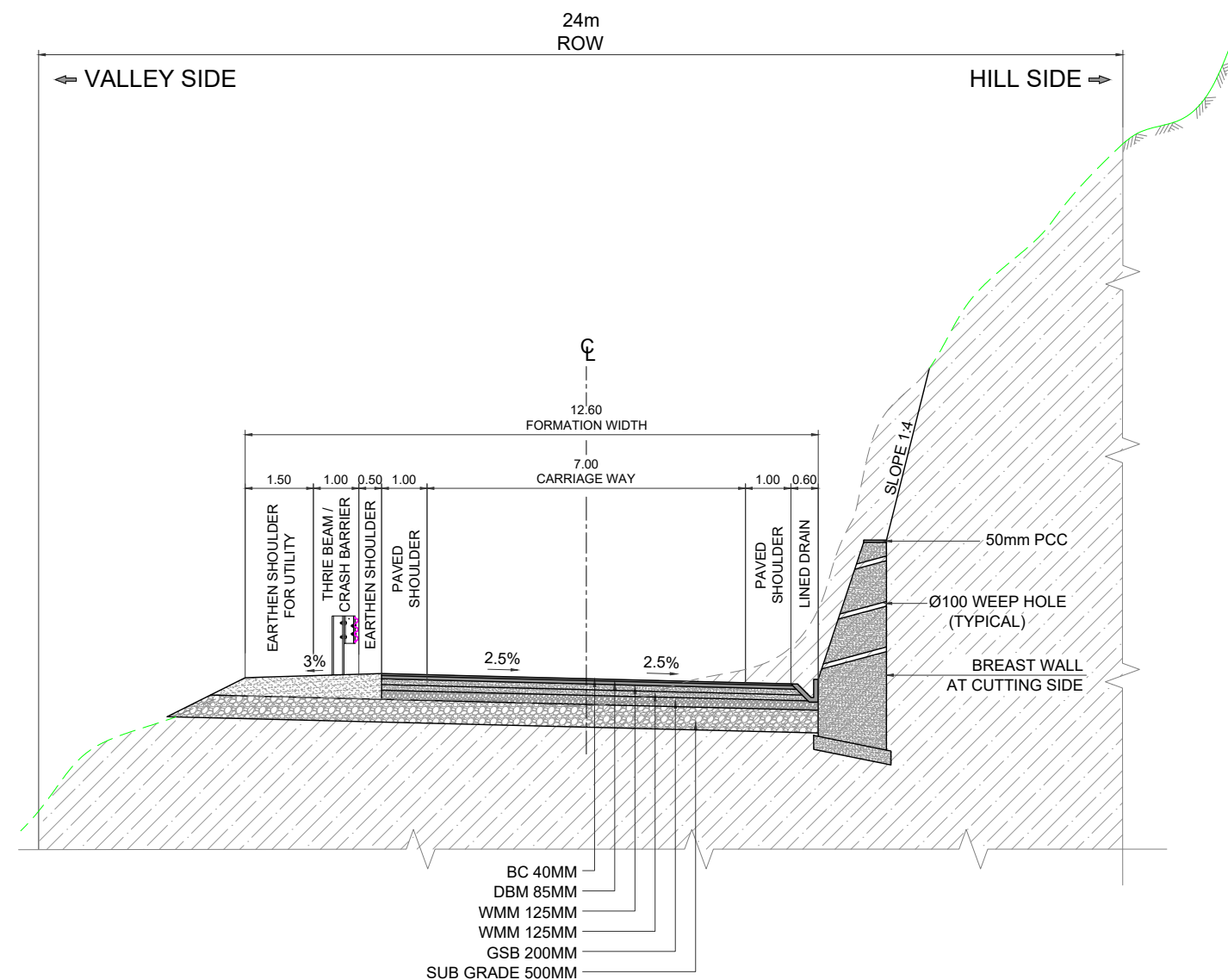
Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK	TITLE: Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)	
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK		
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH		
R2	15-10-2024	Revised As Per Observation				DWG NO: XPL/DSD/WB/KM18.6/TCS/06		
			APR BY : VY	SHEET: 06 OF 10	Date: Dec-2024			
			SCALE : NTS					



TYPICAL CROSS SECTION-4B
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE BREAST WALL(LHS)
AND VALLEY SIDE SLOPE(RHS)

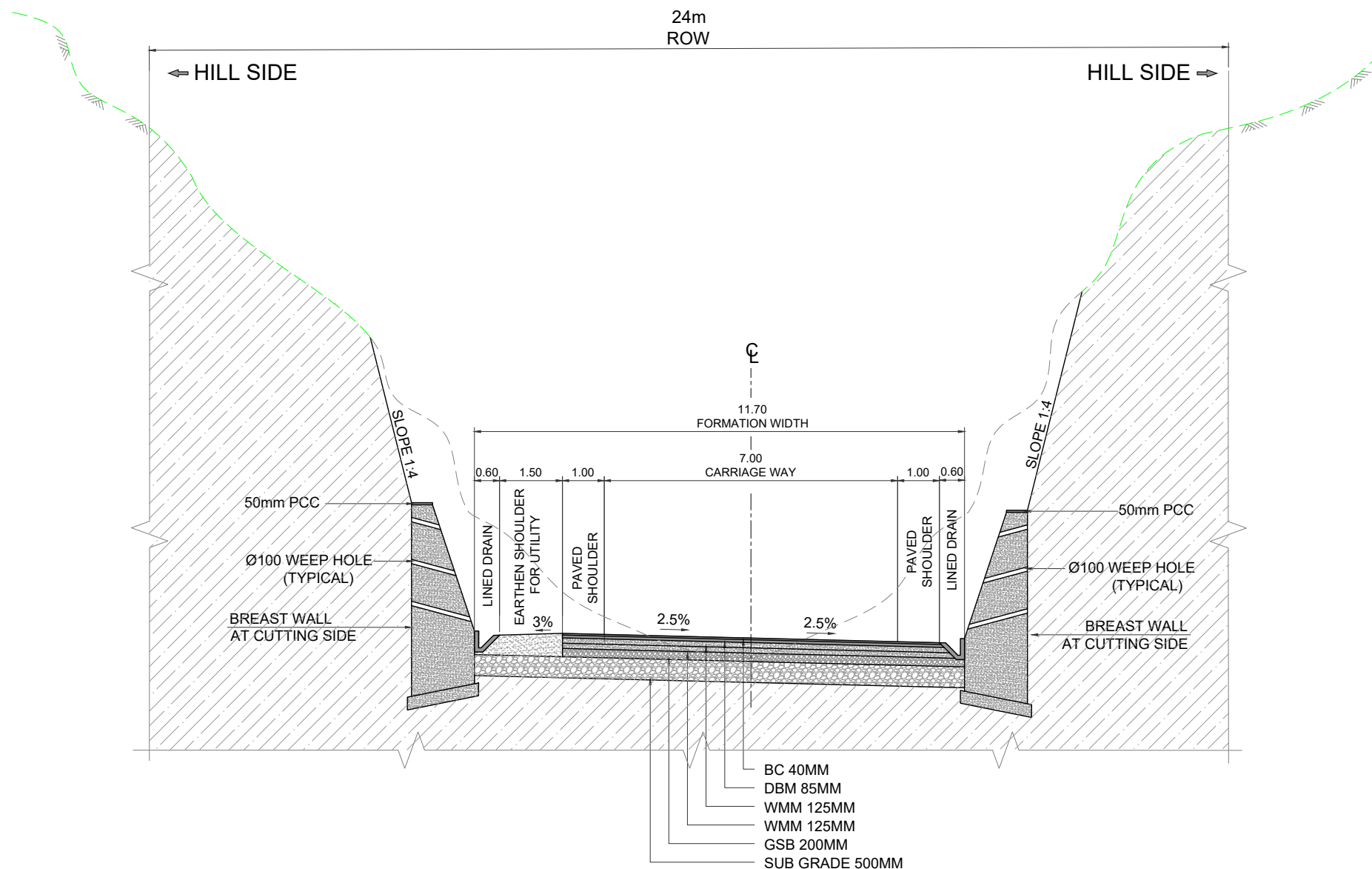


THRIE BEAM/
CRASH BARRIER



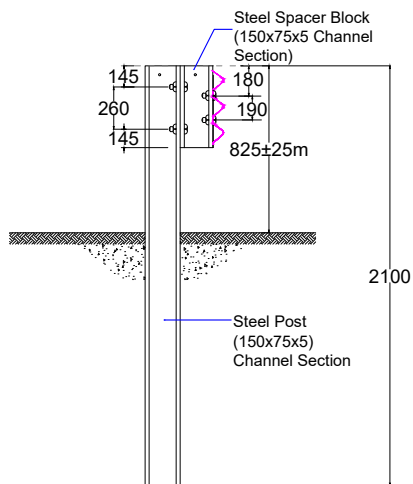
TYPICAL CROSS SECTION-4C
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE SLOPE(LHS)
AND HILL SIDE BREAST WALL(RHS)

Rev. No	Date	Revision Details	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DGN BY : RK	TITLE: Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)		
R0	30-08-2024	Draft Detailed Project Report				DRN BY : MK			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH			
R2	15-10-2024	Revised As Per Observation				DWG NO: XPL/DSD/WB/KM18.6/TCS/07			
									APR BY : VY
									SCALE : NTS

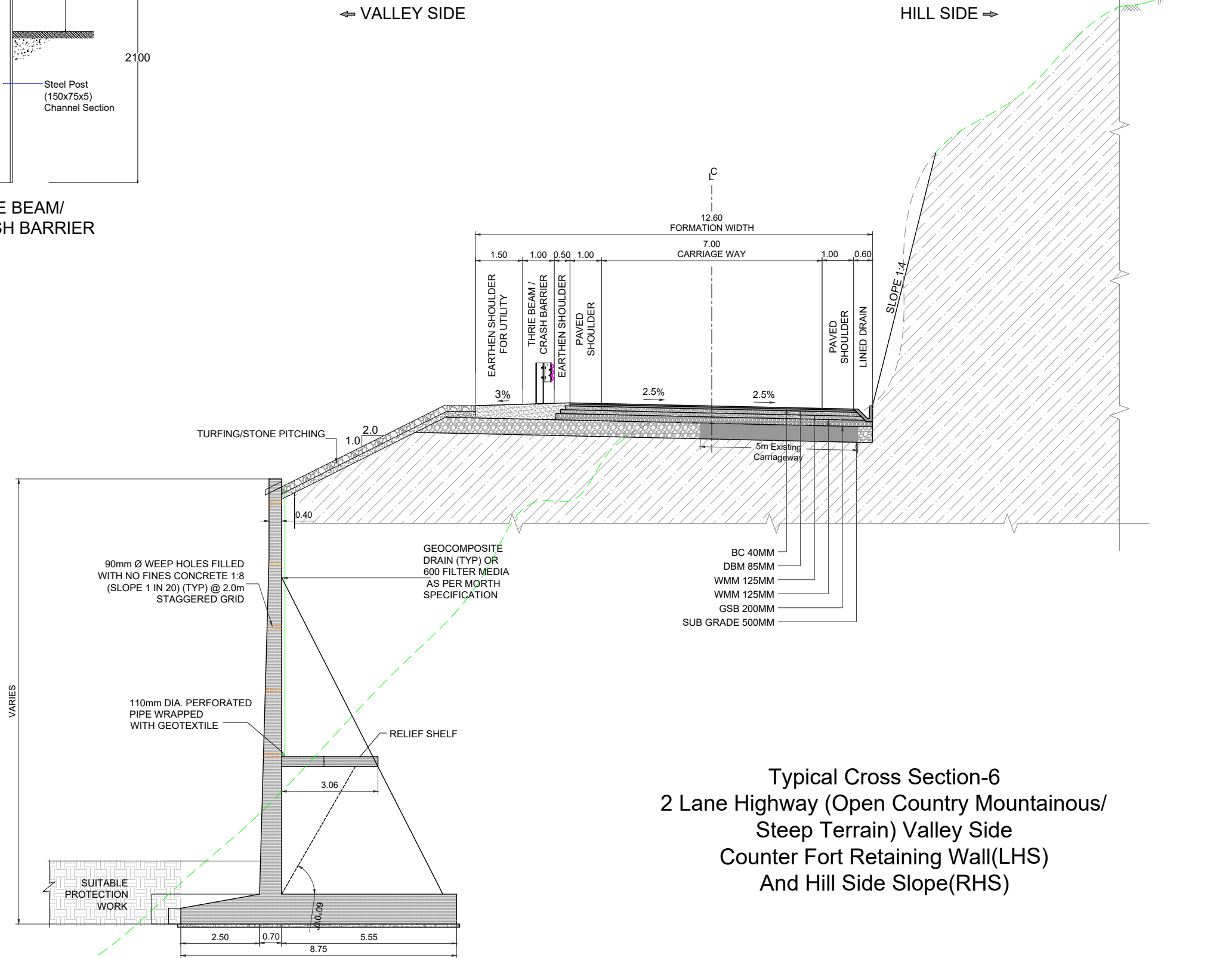


TYPICAL CROSS SECTION-5
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) BOTH SIDE BREAST WALL

Rev. No	Date	Revision Details	CLIENT: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301		PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".		TITLE: Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)		
R0	30-08-2024	Draft Detailed Project Report								
R1	21-09-2024	Revised Draft Detailed Project Report								
R2	15-10-2024	Revised As Per Observation								
								DGN BY : RK	DWG NO: XPL/DSD/WB/KM18.6/TCS/08	
								DRN BY : MK		
								CHK BY : AH		
								APR BY : VY	SHEET: 08 OF 10	
								SCALE : NTS	Date: Dec-2024	

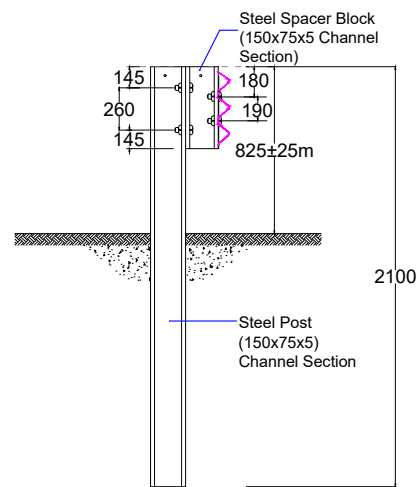


THRIE BEAM/
CRASH BARRIER

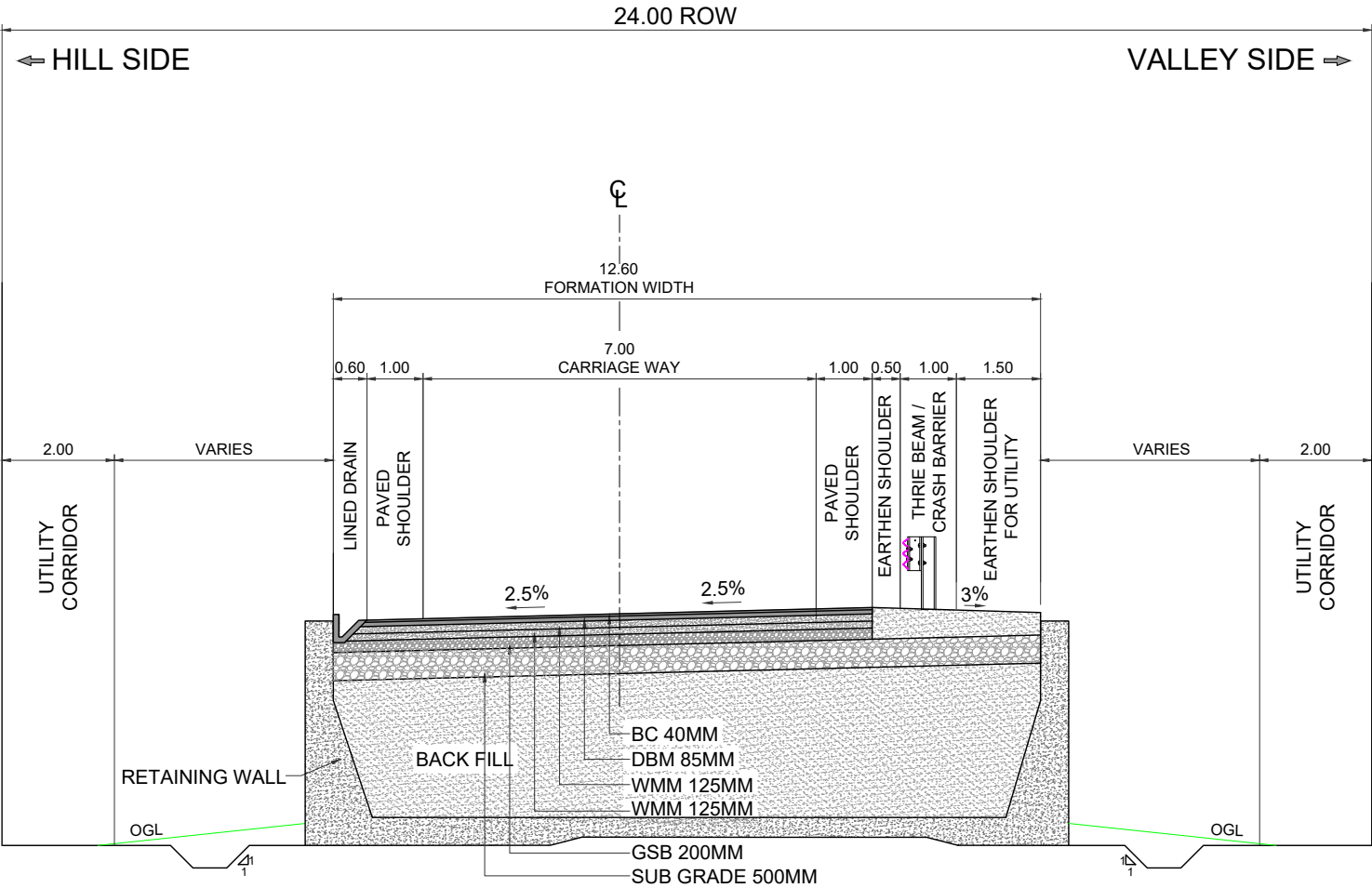


Typical Cross Section-6
2 Lane Highway (Open Country Mountainous/
Steep Terrain) Valley Side
Counter Fort Retaining Wall(LHS)
And Hill Side Slope(RHS)

Rev. No	Date	Revision Details	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY : RK	TITLE: Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)	
R0	30-08-2024	Draft Detailed Project Report	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	XPLORER in JV with DSI In Association with Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	DRN BY : MK		
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH		
R2	15-10-2024	Revised As Per Observation				APR BY : VY		
						SCALE : NTS	SHEET: 09 OF 10	Date: Dec-2024



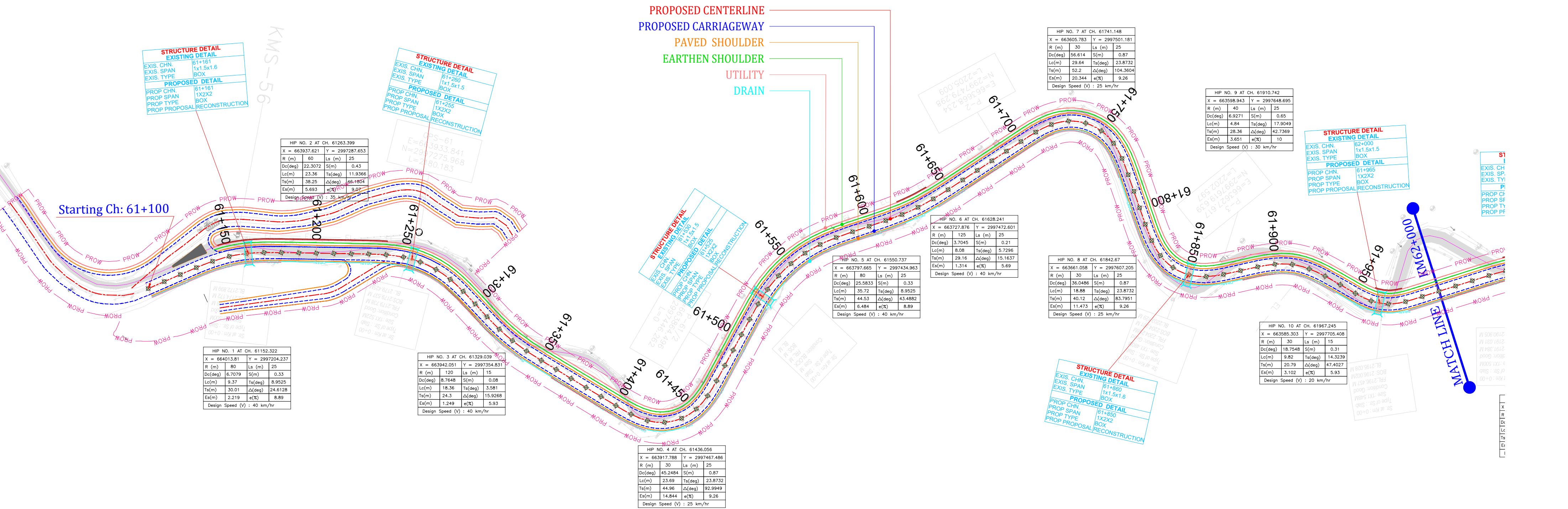
THRIE BEAM/
CRASH BARRIER

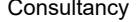


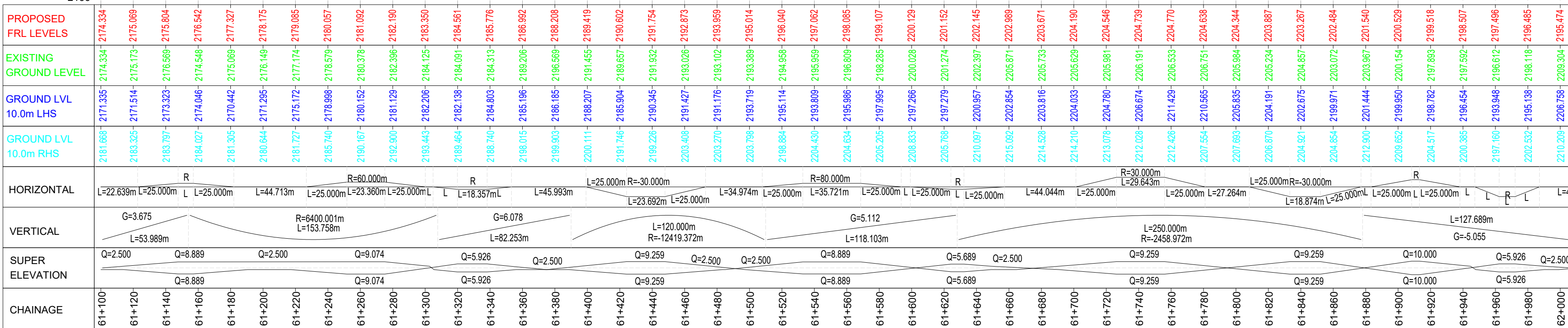
TYPICAL CROSS SECTION-7
2 LANE CARRIAGEWAY WITH PAVED SHOULDER
AND BOTH SIDE RETAINING WALL
(OPEN COUNTRY PLAIN/ROLLING TERRAIN)

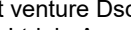
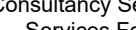
Rev. No	Date	Revision Details	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY : RK	TITLE: Typical Cross Section (TCS) of Lavamore To Pedong Bypass, West Bengal (WB) (61+100 to 79+520)	
R0	30-08-2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	DRN BY : MK		
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY : AH		
R2	15-10-2024	Revised As Per Observation				APR BY : VY		
						SCALE : NTS	SHEET: 10 OF 10	Date: Dec-2024

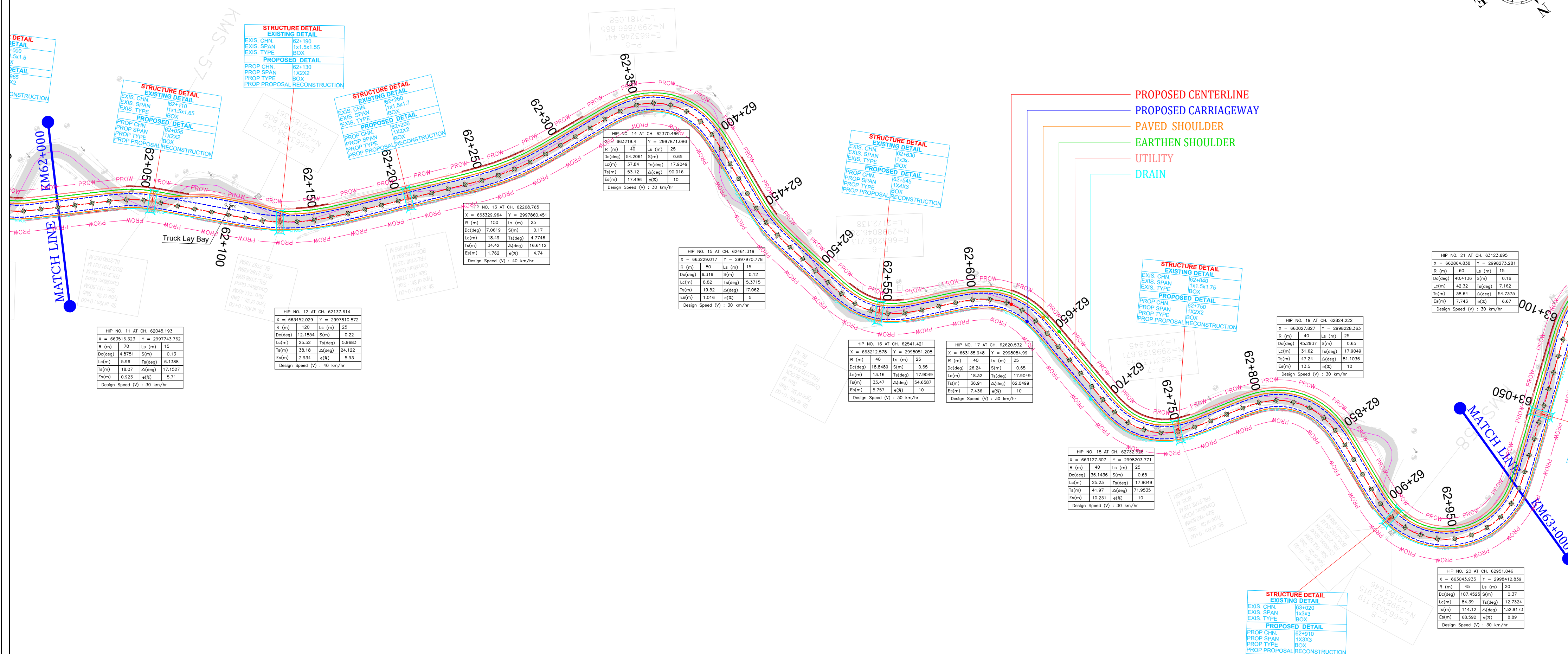
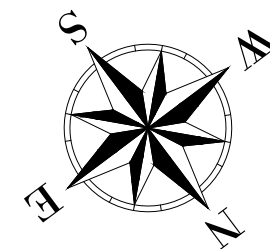
**PLAN & PROFILE
LAVAMORE (61+100) TO
PEDONG BYPASS (79+520)**



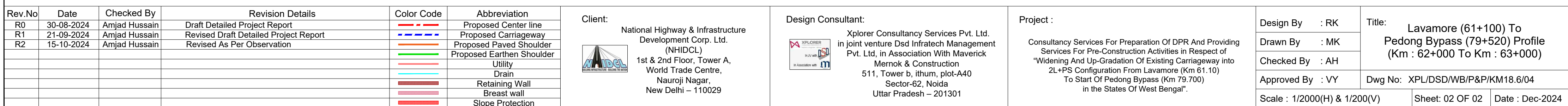
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 61+100 To Km : 62+000)	
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK		
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH		
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/01	
					Proposed Earthen Shoulder				Scale : 1/2000(H)	Sheet: 01 OF 02	Date : Dec-2024
					Utility						
					Drain						
					Retaining Wall						
					Breast wall						
					Slope Protection						

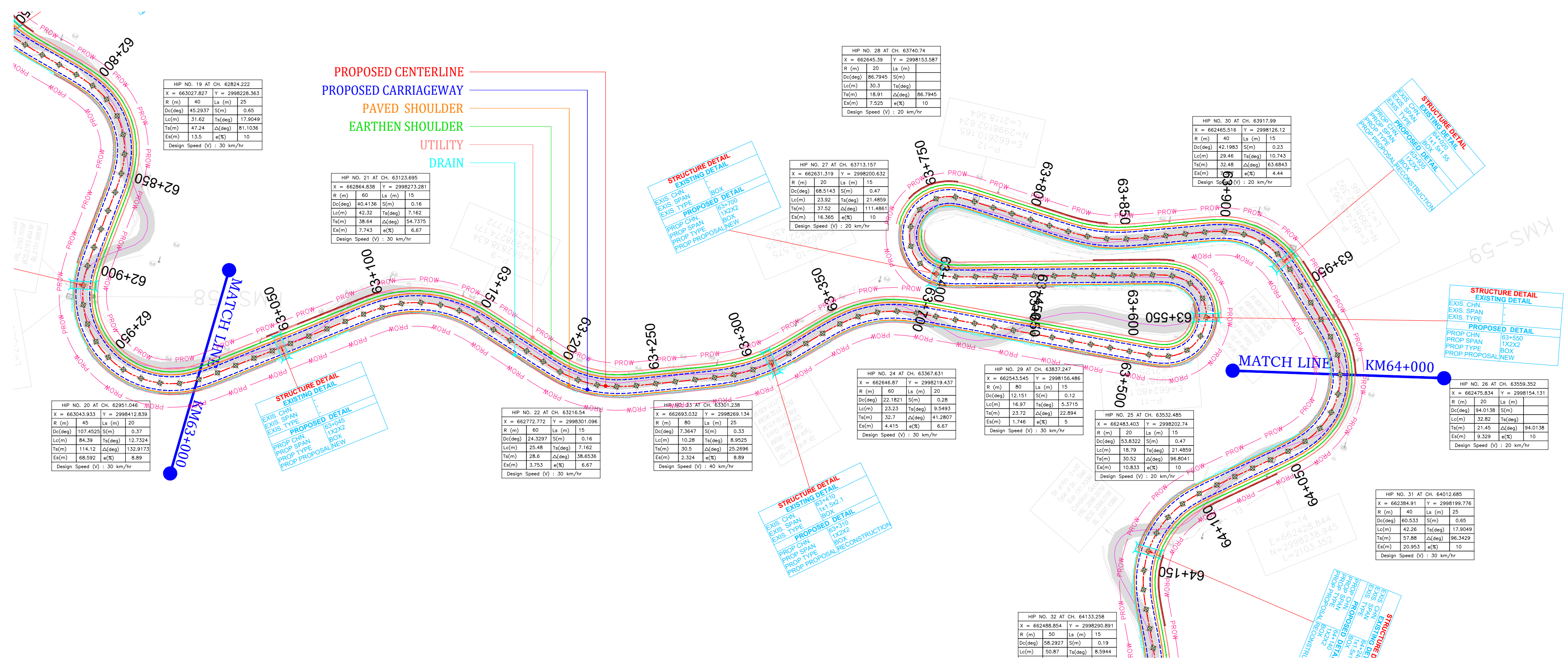
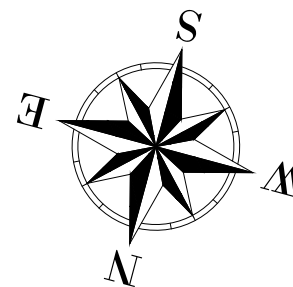


Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 61+100 To Km : 62+000)	
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK		
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH		
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/02	
					Proposed Earthen Shoulder				Scale : 1/2000(H) & 1/200(V)	Sheet: 02 OF 02	Date : Dec-2024
					Utility						
					Drain						
					Retaining Wall						
					Breast wall						
					Slope Protection						

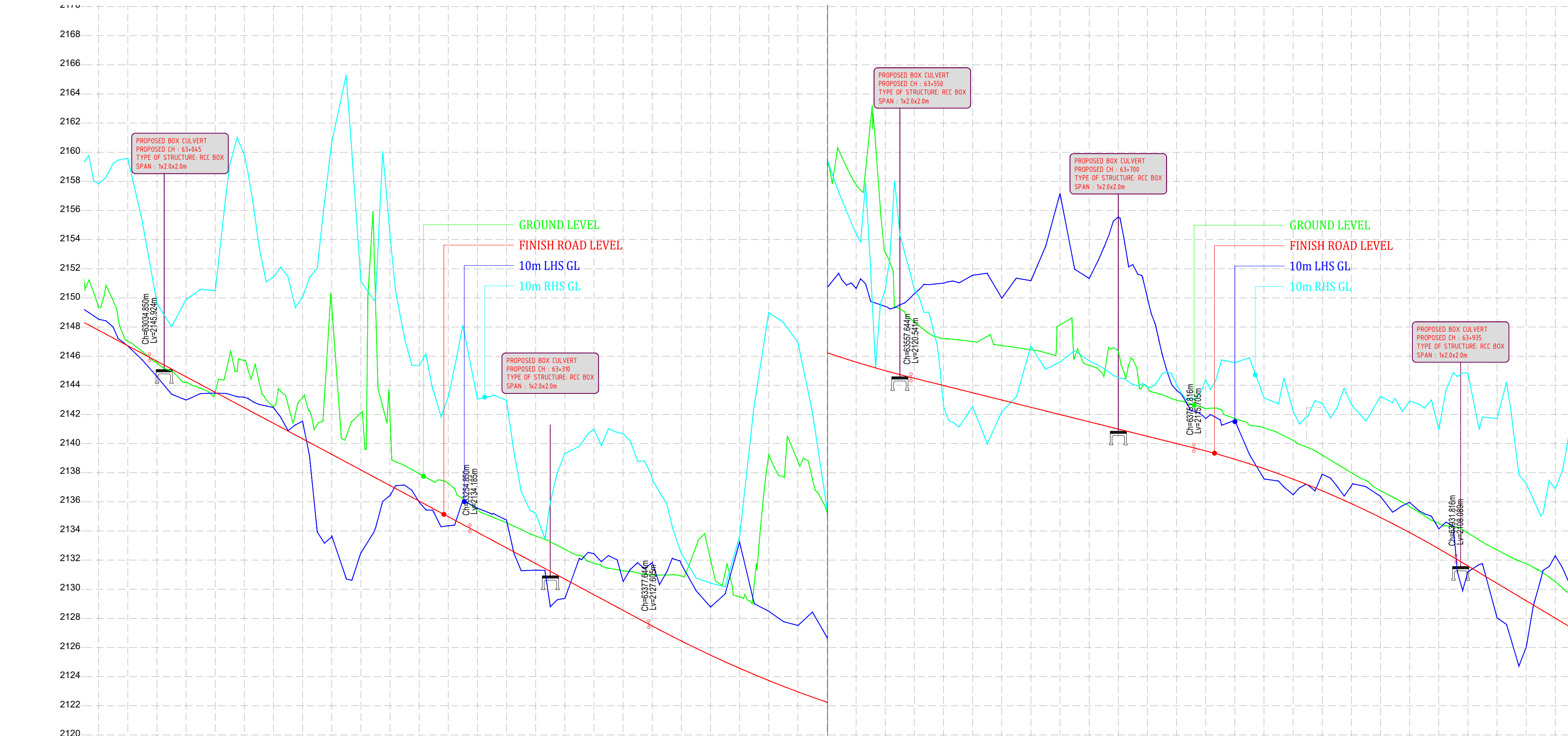


Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, itum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 62+000 To Km : 63+000)		
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK			
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH			
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder					Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/03	
					Proposed Earthen Shoulder					Scale : 1/2000(H)	Sheet: 01 OF 02	Date : Dec-2024
					Utility							
					Drain							
					Retaining Wall							
					Breast wall							
					Slope Protection							

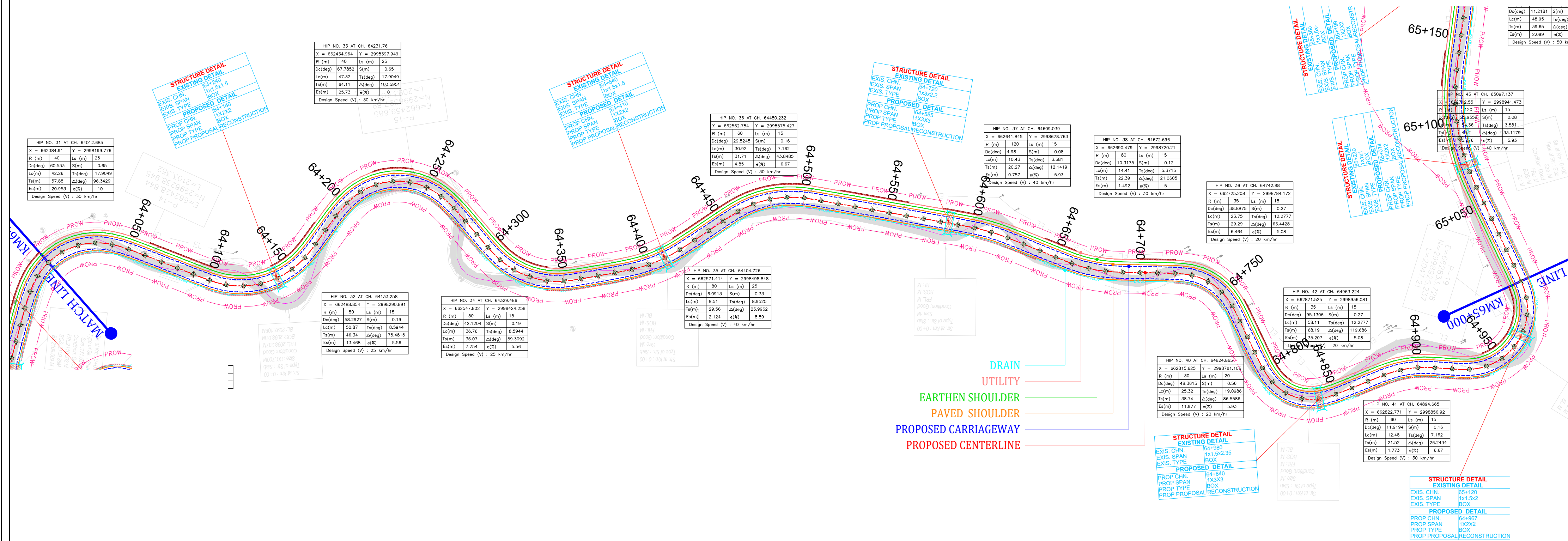
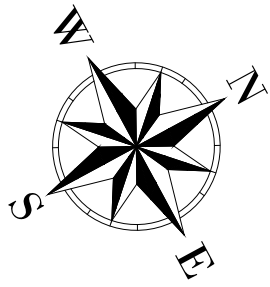




Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 63+000 To Km : 64+000)
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK	
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH	
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	
					Proposed Earthen Shoulder				Dwg No: XPL/DSD/WB/P&P/KM18.6/05	
					Utility				Scale : 1/2000(H)	
					Drain				Sheet: 01 OF 02	
					Retaining Wall				Date : Dec-2024	
					Breast wall					
					Slope Protection					

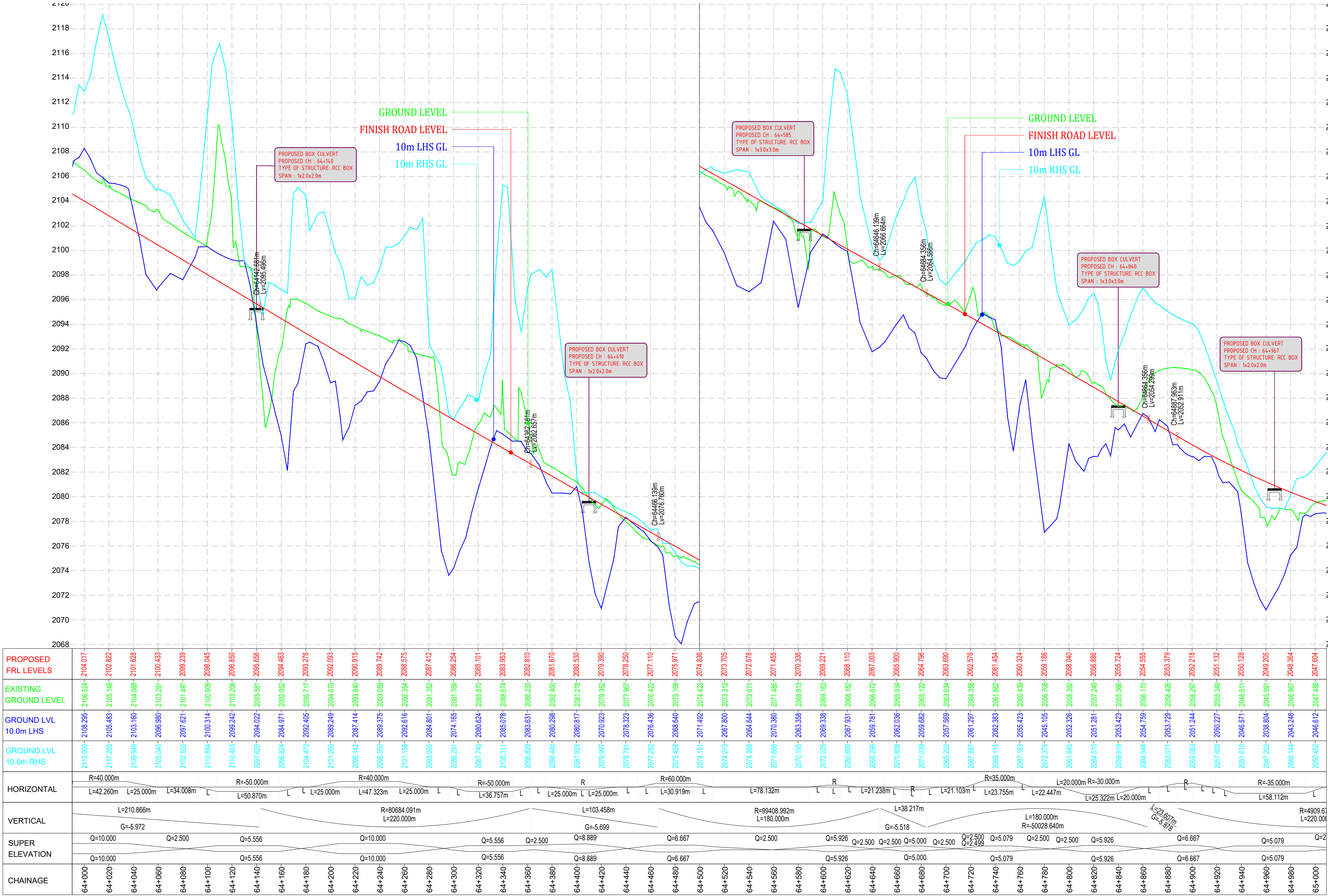


PROPOSED FRL LEVELS	2147.775	2146.713	2145.650	2144.587	2143.522	2142.457	2141.392	2140.325	2139.258	2138.189	2137.120	2136.051	2134.980	2133.909	2132.837	2131.765	2130.694	2129.622	2128.551	2127.479	2126.447	2125.479	2124.574	2123.733	2122.955	2122.242	2121.592	2121.006	2120.483	2119.995	2119.486	2118.998	2118.490	2117.992	2117.494	2116.996	2116.498	2116.000	2115.495	2114.926	2114.281	2113.557	2112.757	2111.879	2110.924	2109.891	2108.781	2107.600	2106.406	2105.211	2104.017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
EXISTING GROUND LEVEL	2148.378	2147.035	2145.532	2144.196	2143.563	2142.457	2141.392	2140.325	2139.258	2138.189	2137.120	2136.051	2134.980	2133.909	2132.837	2131.765	2130.694	2129.622	2128.551	2127.479	2126.447	2125.479	2124.574	2123.733	2122.955	2122.242	2121.592	2121.006	2120.483	2119.995	2119.486	2118.998	2118.490	2117.992	2117.494	2116.996	2116.498	2116.000	2115.495	2114.926	2114.281	2113.557	2112.757	2111.879	2110.924	2109.891	2108.781	2107.600	2106.406	2105.211	2104.017																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
GROUND LVL 10.0m LHS	2157.821	2148.532	2146.699	2144.598	2143.465	2143.180	2142.471	2141.535	2140.680	2139.840	2138.932	2137.955	2136.909	2135.793	2134.616	2133.388	2132.111	2130.784	2129.407	2127.980	2126.503	2124.976	2123.400	2121.773	2120.096	2118.369	2116.592	2114.765	2112.888	2110.961	2108.984	2106.957	2104.880	2102.753	2100.576	2098.349	2096.072	2093.745	2091.368	2088.941	2086.464	2083.937	2081.360	2078.733	2076.056	2073.329	2070.552	2067.725	2064.848	2061.921	2058.944	2055.917	2052.840	2049.713	2046.536	2043.309	2039.982	2036.505	2032.878	2029.101	2025.174	2021.097	2016.870	2012.493	2007.966	2003.289	1998.462	1993.385	1988.058	1982.481	1976.654	1970.577	1964.250	1957.673	1950.846	1943.769	1936.442	1928.865	1921.038	1912.961	1904.634	1896.057	1887.230	1878.153	1868.826	1859.249	1849.422	1839.345	1828.918	1818.141	1807.014	1795.537	1783.710	1771.533	1758.906	1745.829	1732.302	1718.325	1703.898	1689.021	1673.694	1657.917	1641.690	1625.013	1607.886	1590.309	1572.282	1553.805	1534.878	1515.501	1495.674	1475.397	1454.670	1433.493	1411.866	1389.789	1367.262	1344.285	1320.858	1296.981	1272.654	1247.877	1222.650	1196.973	1170.846	1144.269	1117.242	1089.765	1061.838	1033.461	1004.634	975.357	945.580	915.253	884.376	852.949	820.972	788.445	755.368	721.741	687.564	652.837	617.560	581.733	545.356	508.429	470.952	432.925	394.348	355.221	315.544	275.317	234.540	193.213	151.336	108.909	65.932	22.455	-19.522	-61.945	-114.768	-167.991	-220.614	-272.637	-324.060	-374.883	-425.106	-474.729	-523.752	-572.175	-619.998	-667.221	-713.844	-759.867	-805.290	-850.113	-894.336	-937.959	-980.982	-1023.405	-1065.228	-1106.451	-1147.074	-1187.097	-1226.520	-1265.343	-1303.566	-1341.189	-1378.212	-1414.635	-1450.458	-1485.681	-1520.304	-1554.327	-1587.750	-1620.573	-1652.796	-1684.419	-1715.442	-1745.865	-1775.688	-1804.911	-1833.534	-1861.557	-1888.980	-1915.803	-1942.026	-1967.649	-1992.672	-2017.095	-2040.818	-2063.841	-2086.164	-2107.787	-2128.710	-2148.933	-2168.456	-2187.279	-2205.402	-2222.825	-2239.548	-2255.571	-2270.894	-2285.517	-2299.440	-2312.663	-2325.186	-2337.009	-2348.132	-2358.555	-2368.278	-2377.301	-2385.624	-2393.247	-2400.170	-2406.393	-2411.816	-2416.439	-2420.262	-2423.285	-2425.508	-2426.931	-2427.554	-2427.377	-2426.400	-2424.623	-2422.046	-2418.669	-2414.492	-2409.515	-2403.838	-2397.461	-2390.384	-2382.607	-2374.130	-2364.953	-2355.076	-2344.500	-2333.223	-2321.246	-2308.569	-2295.192	-2281.015	-2266.038	-2250.261	-2233.684	-2216.307	-2198.130	-2179.153	-2159.376	-2138.799	-2117.422	-2095.245	-2072.268	-2048.491	-2023.914	-1998.537	-1972.360	-1945.383	-1917.606	-1889.029	-1859.652	-1829.475	-1798.498	-1766.721	-1734.144	-1700.767	-1666.590	-1631.613	-1595.836	-1559.259	-1521.882	-1483.705	-1444.728	-1404.951	-1364.374	-1322.997	-1280.820	-1237.843	-1194.066	-1149.489	-1104.112	-1057.935	-1010.958	-963.181	-914.604	-865.327	-815.350	-764.673	-713.296	-661.219	-608.442	-554.965	-500.788	-445.911	-390.334	-334.057	-277.080	-219.403	-161.126	-102.249	-42.772	16.305	75.628	134.251	192.174	249.397	305.820	361.443	416.266	470.289	523.512	575.935	627.558	678.381	728.404	777.627	826.050	873.673	920.396	966.219	1011.142	1055.165	1098.288	1140.511	1181.834	1222.257	1261.780	1300.403	1338.126	1374.949	1410.872	1445.895	1480.018	1513.241	1545.564	1576.987	1607.510	1637.133	1665.856	1693.679	1720.502	1746.425	1771.448	1795.571	1818.794	1841.117	1862.540	1883.063	1902.686	1921.409	1939.232	1956.155	1972.178	1987.301	2001.524	2014.847	2027.270	2038.793	2049.416	2059.139	2067.962	2075.885	2082.908	2089.031	2094.254	2098.577	2102.000	2104.623	2106.446	2107.469	2107.692	2107.115	2105.838	2103.861	2101.184	2097.807	2093.730	2088.953	2083.476	2077.300	2070.423	2062.846	2054.569	2045.592	2035.915	2025.538	2014.461	2002.684	1990.207	1977.030	1963.153	1948.576	1933.299	1917.322	1900.645	1883.268	1865.191	1846.414	1826.937	1806.760	1785.883	1764.306	1742.029	1719.052	1695.375	1670.998	1645.921	1620.144	1593.667	1566.490	1538.613	1510.036	1480.759	1450.782	1420.105	1388.728	1356.651	1323.874	1290.397	1256.220	1221.343	1185.766	1149.489	1112.512	1074.835	1036.458	997.281	957.304	916.527	874.950	832.573	789.296	745.119	700.042	654.065	607.188	559.411	510.734	461.157	410.680	359.303	307.026	253.849	199.772	144.795	88.918	32.241	-24.136	-77.659	-129.282	-179.005	-227.828	-275.751	-322.774	-368.897	-414.120	-458.443	-501.866	-544.389	-585.912	-626.435	-665.958	-704.481	-742.004	-778.527	-814.050	-848.573	-882.096	-914.619	-946.142	-976.665	-1006.188	-1034.711	-1062.234	-1088.757	-1114.280	-1138.803	-1162.326	-1184.849	-1206.372	-1226.895	-1246.418	-1264.941	-1282.464	-1298.987	-1314.510	-1329.033	-1342.556	-1355.079	-1366.602	-1377.125	-1386.648	-1395.171	-1402.694	-1409.217	-1414.740	-1419.263	-1422.786	-1425.309	-1426.832	-1427.355	-1426.878	-1425.401	-1422.924	-1419.447	-1414.970	-1409.493	-1403.016	-1395.539	-1387.062	-1377.585	-1367.108	-1355.631	-1343.154	-1329.677	-1315.200	-1299.723	-1283.246	-1265.769	-1247.292	-1227.815	-1207.338	-1185.861	-1163.384	-1139.907	-1115.430	-1089.953	-1063.476	-1035.999	-1007.522	-978.045	-947.568	-916.091	-883.614	-850.137	-815.660	-780.183	-743.706	-706.229	-667.752	-628.275	-587.798	-546.321	-503.844	-460.367	-415.890	-370.413	-323.936	-276.459	-227.982	-178.505	-128.028	-76.551	-24.074	29.403	82.926	135.449	187.072	237.795	287.518	336.241	383.964	430.687	476.410	521.133	564.856	607.579	649.302	690.025	729.748	768.471	806.194	842.917	878.640	913.363	947.086	979.809	1011.532	1042.255	1071.978	1100.601	1128.124	1154.547	1179.870	1204.093	1227.216	1249.239	1270.162	1289.985	1308.708	1326.331	1342.854	1358.277	1372.500	1385.623	1397.646	1408.569	1418.392	1427.115	1434.738	1441.261	1446.784	1451.307	1454.830	1457.353	1458.876	1459.399	1458.922	1457.445	1454.968	1451.491	1447.014	1441.537	1435.060	1427.583	1419.106	1409.629	1400.152	1389.675	1378.198	1365.721	1352.244	1337.767	1322.290	1305.813	1288.336	1269.859	1250.382	1229.905	1208.428	1185.951	1162.474	1137.997	1112.520	1086.043	1058.566	1030.089	1000.612	970.135	938.658	906.181	872.704	838.227	802.750	766.273	728.796	690.319	650.842	610.365	568.888	526.411	482.934	438.457	392.980	346.503	299.026	250.549	201.072	150.595	99.118	46.641	-6.836	-59.359	-110.882	-161.405	-210.928	-259.451	-306.974	-353.497	-399.020	-443.543	-487.066	-529.589	-570.112	-608.635	-645.158	-679.681	-712.204	-742.727	-771.250	-797.773	-822.296	-844.819	-865.342	-883.865	-900.388	-914.911	-927.434	-937.957	-946.480	-953.003	-957.526	-960.049	-960.572	-960.095	-957.618	-953.141	-946.664	-938.187	-927.710	-915.233	-900.756	-884.279	-865.802	-845.325	-822.848	-798.371	-771.894	-743.417	-712.940	-680.463	-646.986	-612.509	-577.032	-540.555	-503.078	-464.601	-425.124	-384.647	-343.170	-300.693	-257.216	-212.739	-167.262	-120.785	-73.308	-24.831	24.646	77.169	128.692	179.215	228.738	277.261	324.784	371.307	416.830	461.353	504.876	547.399	588.922	629.445	668.968	707.491	745.014	781.537	817.060	851.583	885.106	917.629	949.152	979.675	1009.198	1037.721	1065.244	1091.767	1117.290	1141.813	1165.336	1187.859	1209.382	1229.905	1249.428	1267.951	1285.474	1302.000	1317.523	1332.046	1345.569	1358.092	1369.615	1380.138	1389.661	1398.184	1405.707	1412.230	1417.753	1422.276	1425.800	1428.323	1429.846	1430.369	1429.892	1428.415	1425.938	1422.461	1418.000	1412.523	1406.046	1398.569	1390.092	1380.615	1370.138	1358.661	1346.184	1332.707	1318.230	1302.753	1286.276	1268.799	1250.322	1230.845	1210.368	1188.891	1166.414	1142.937	1118.460	1092.983	1066.506	1039.029	1010.552	981.075	950.598	919.121	886.644	853.167	818.690	783.213	746.736	709.259	670.782	631.305	590.828	549.351	506.874	463.397	418.920	373.443	326.966	279.489	231.012	181.535	131.058	79.581	

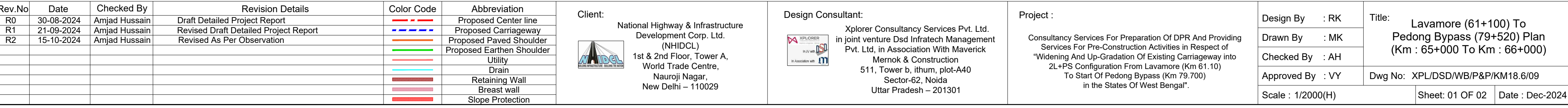
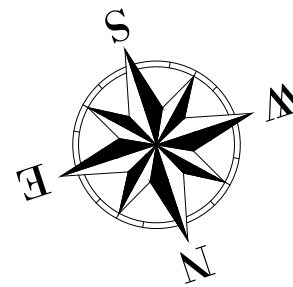


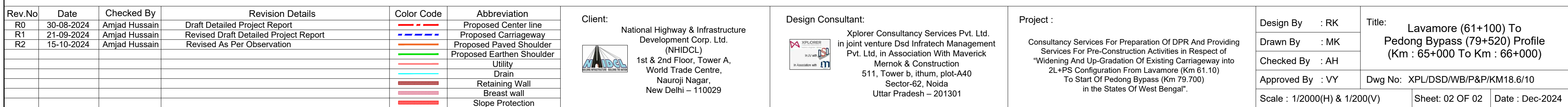
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029			Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301			Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".			Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 64+000 To Km : 65+000)		
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line												
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway												
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder												
					Proposed Earthen Shoulder	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029			Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301			Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".			Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 64+000 To Km : 65+000)		
					Utility												
					Drain												
					Retaining Wall												
					Breast wall	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029			Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301			Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".			Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 64+000 To Km : 65+000)		
					Slope Protection												

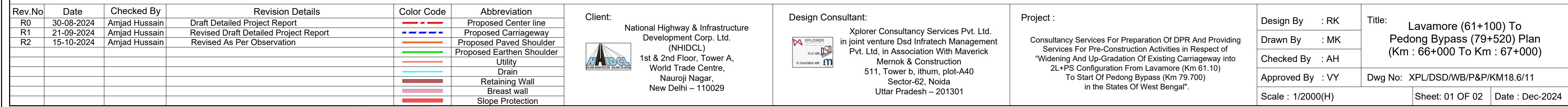
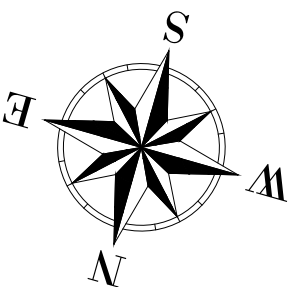
Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 64+000 To Km : 65+000)	
Drawn By : MK		
Checked By : AH	Dwg No: XPL/DSD/WB/P&P/KM18.6/07	
Approved By : VY		
Scale : 1/2000(H)	Sheet: 01 OF 02	Date : Dec-2024



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By	Title:
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report	---	Proposed Center line	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	RK	Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 64+000 To Km : 65+000)
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report	---	Proposed Carriageway	1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301		MK	
R2	15-10-2024	Amjad Hussain	Revised As Per Observation	---	Proposed Paved Shoulder				AH	
				---	Proposed Earthen Shoulder				VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/08
				---	Utility					Scale : 1/2000(H) & 1/200(V)
				---	Drain					Sheet: 02 OF 02
				---	Retaining Wall					Date : Dec-2024
				---	Breast wall					
				---	Slope Protection					

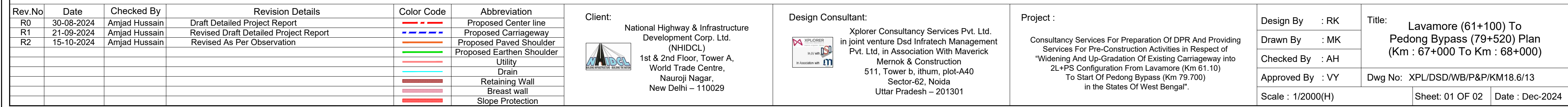
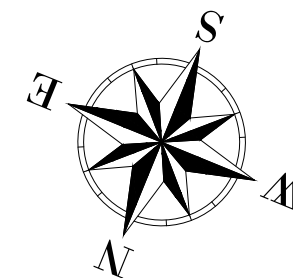


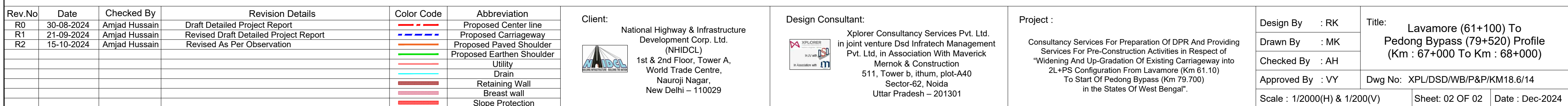


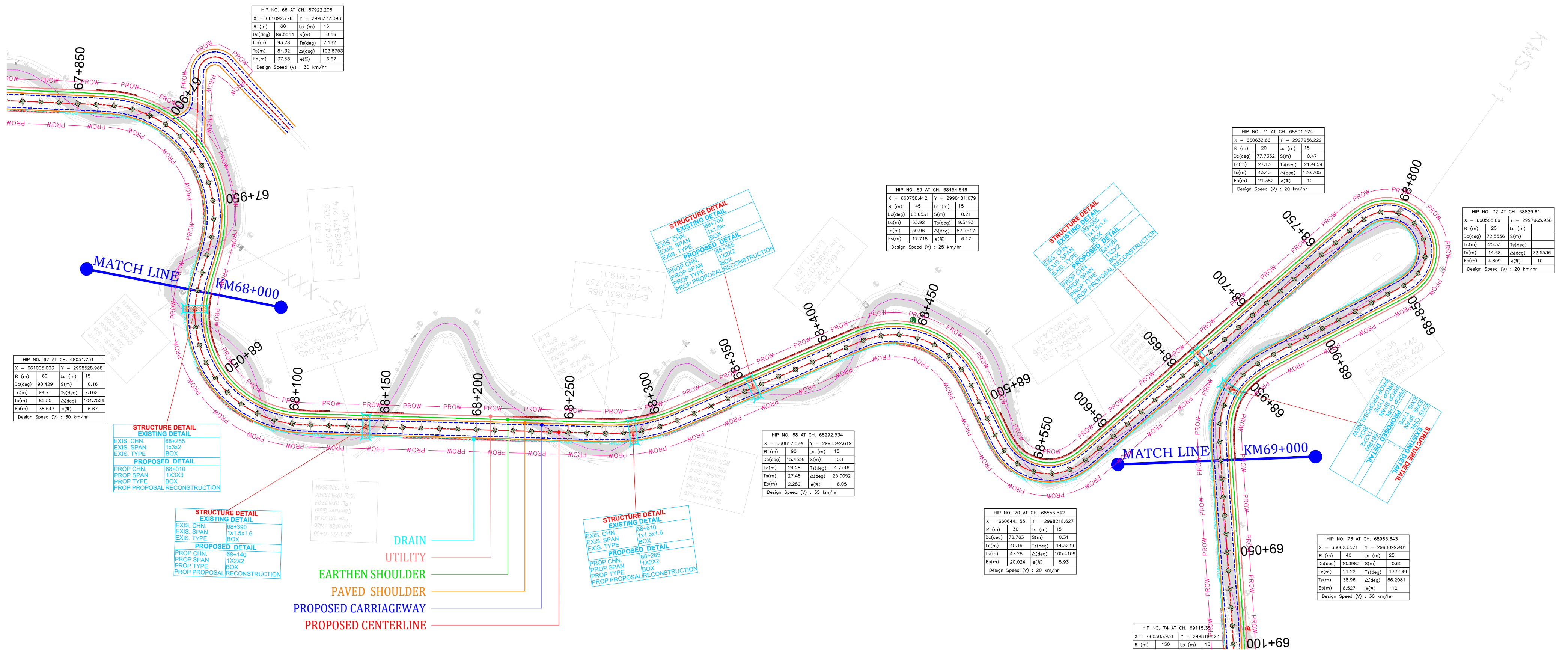
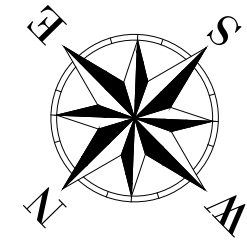




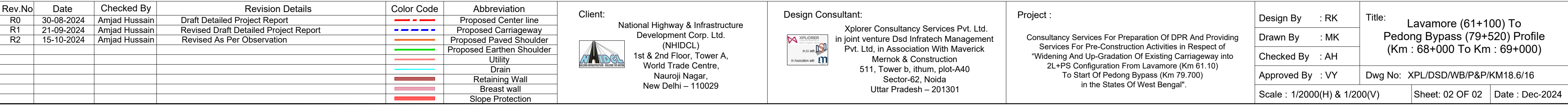
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 66+000 To Km : 67+000)		
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK			
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH			
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/12		
					Proposed Earthen Shoulder				Scale : 1/2000(H) & 1/200(V)		Sheet: 02 OF 02	Date : Dec-2024
					Utility							
					Drain							
					Retaining Wall							
					Breast wall							
					Slope Protection							

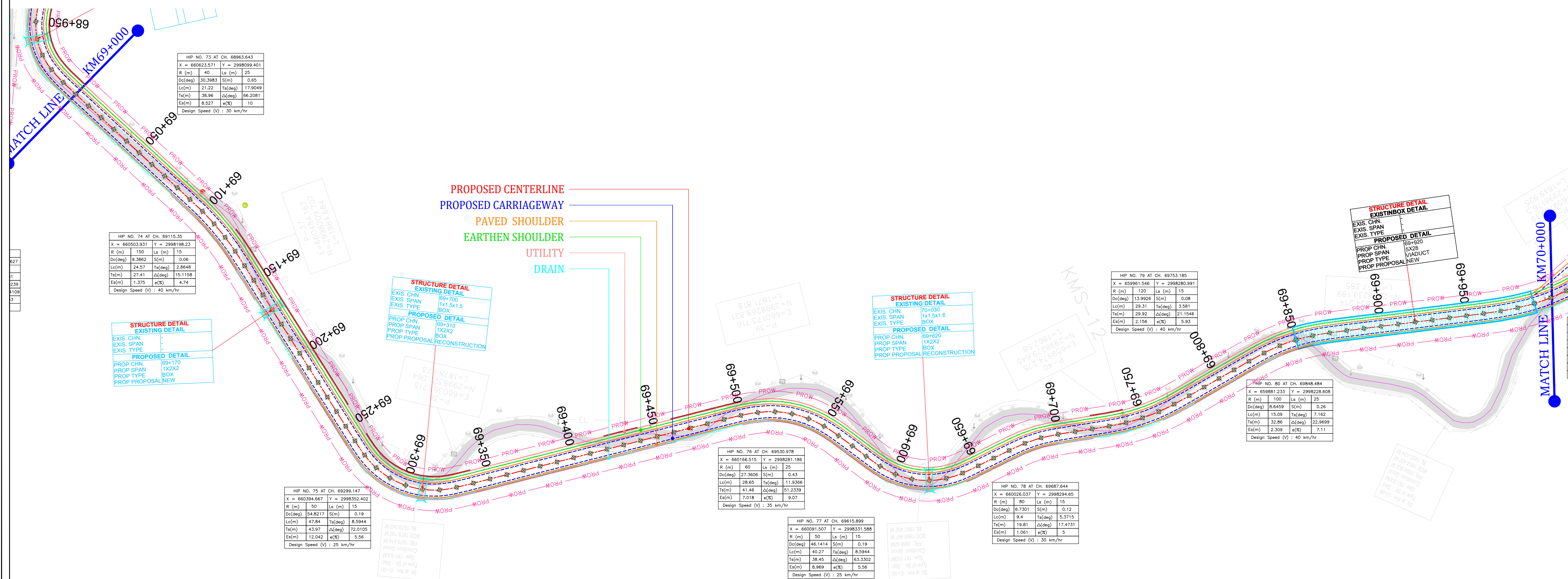
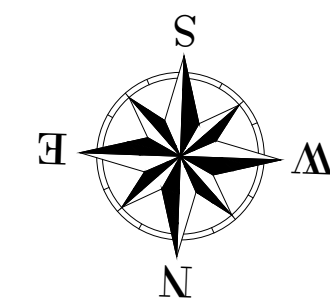




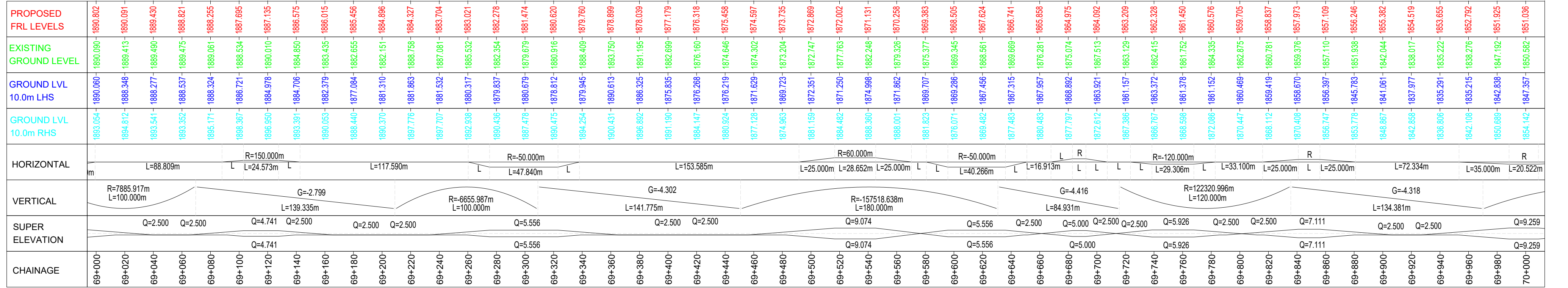


Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 68+000 To Km : 69+000)	
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK		
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH		
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/15	
					Proposed Earthen Shoulder				Scale : 1/2000(H)	Sheet: 01 OF 02	Date : Dec-2024
					Utility						
					Drain						
					Retaining Wall						
					Breast wall						
					Slope Protection						

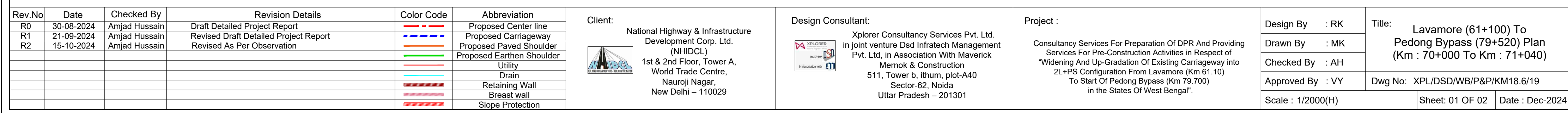
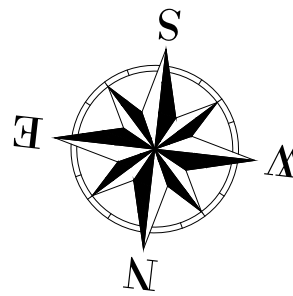


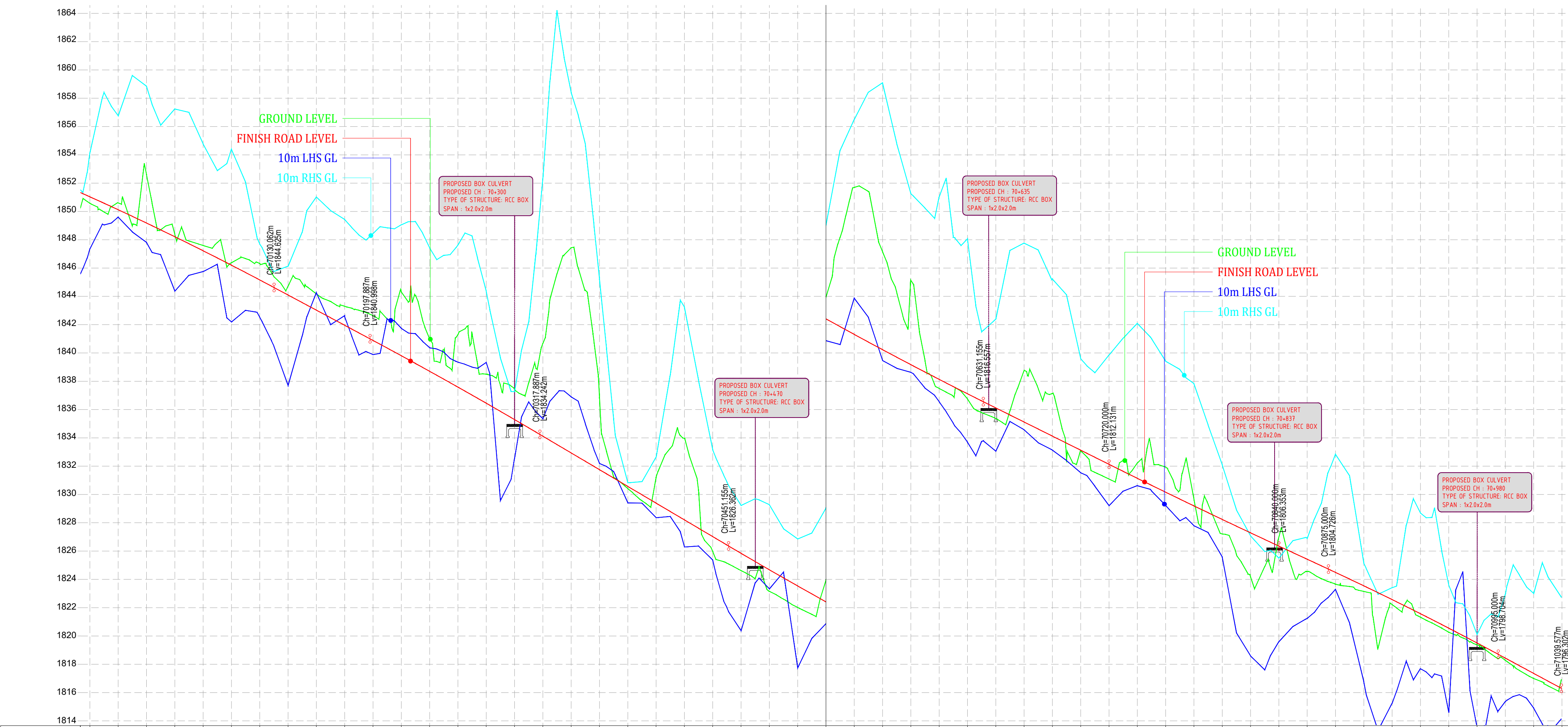


Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, itum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 69+000 To Km : 70+000)		
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK			
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH			
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder					Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/17	
					Proposed Earthen Shoulder					Scale : 1/2000(H)	Sheet: 01 OF 02	Date : Dec-2024
					Utility							
					Drain							
					Retaining Wall							
					Breast wall							
					Slope Protection							

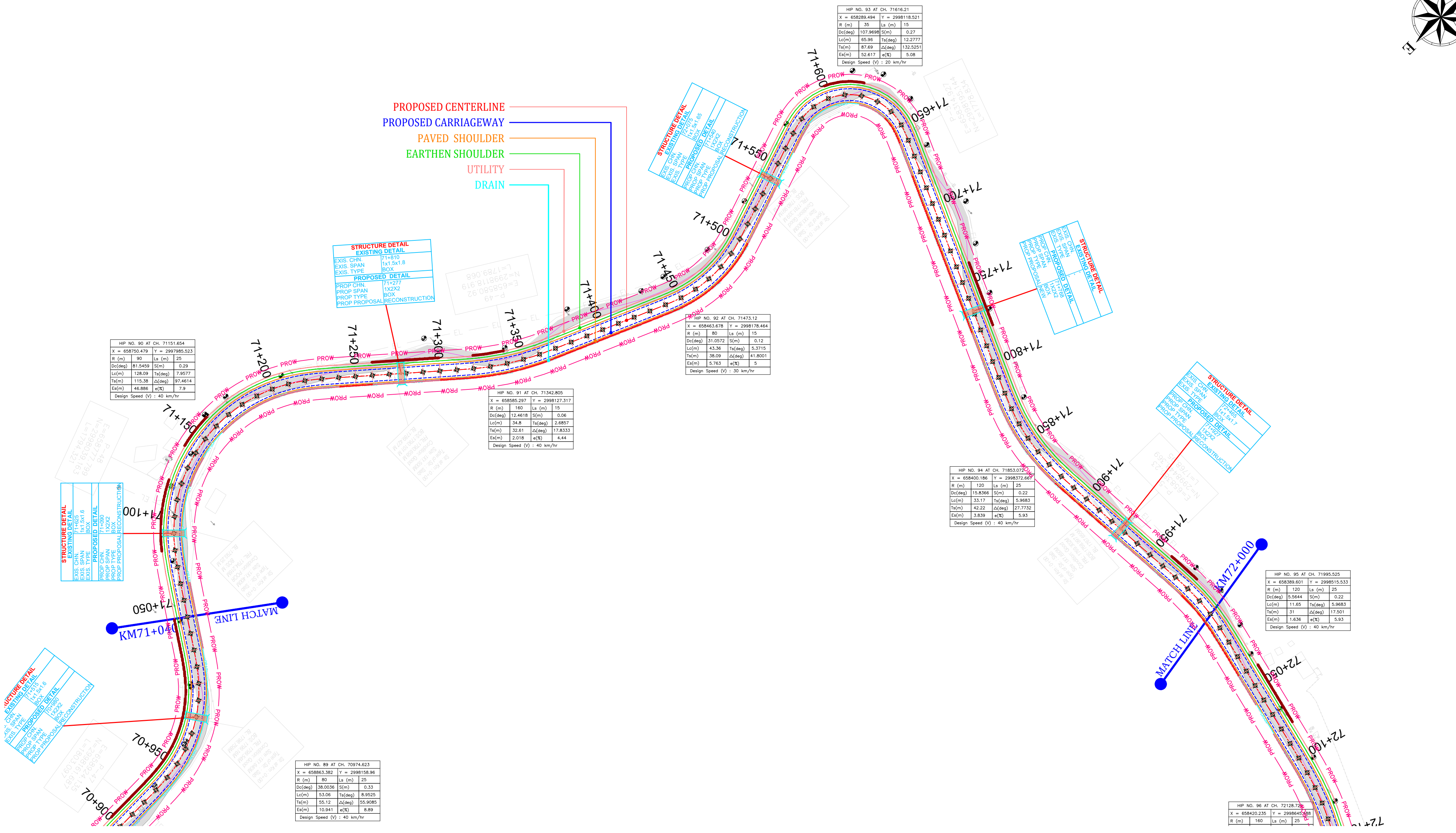
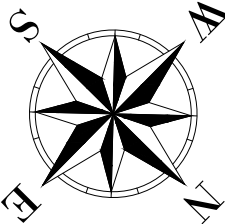


Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 69+000 To Km : 70+000)
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK	
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH	
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/18
					Proposed Earthen Shoulder					
					Utility					
					Drain					
					Retaining Wall					
					Breast wall					
					Slope Protection					

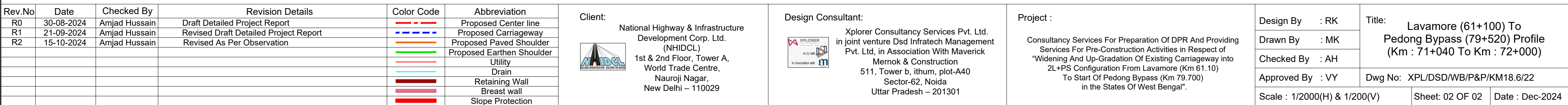


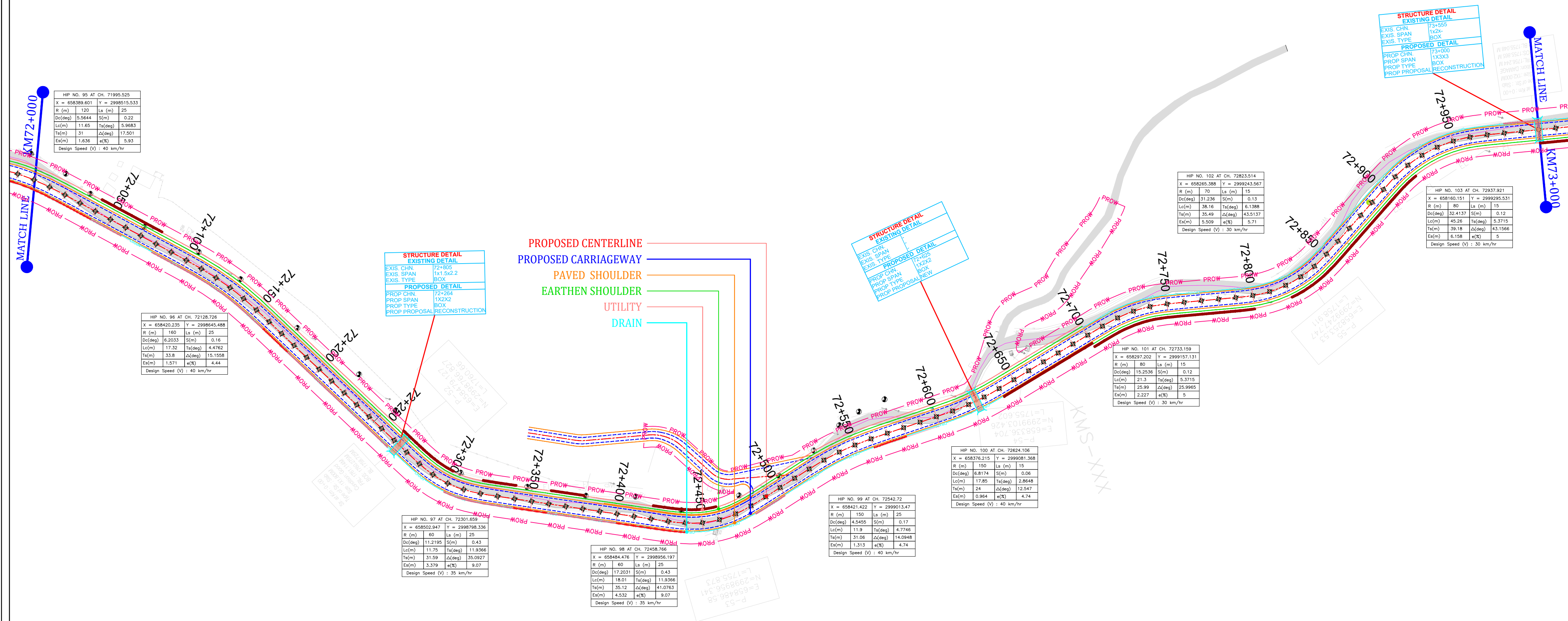
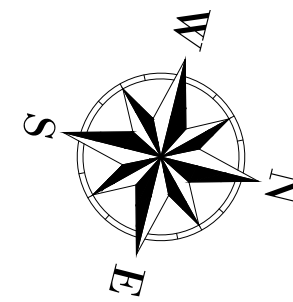


PROPOSED FRL LEVELS	1851.036	1850.582	1850.605	1850.610	1849.180	1848.214	1847.221	1846.204	1845.160	1844.094	1843.024	1841.955	1840.885	1839.804	1838.705	1837.586	1836.449	1835.292	1834.117	1832.935	1831.752	1830.569	1829.387	1828.204	1827.021	1825.841	1824.678	1823.535	1822.414	1821.313	1820.232	1819.173	1818.134	1817.116	1816.116	1815.120	1814.123	1813.127	1812.131	1811.140	1810.160	1809.192	1808.235	1807.288	1806.353	1805.423	1804.493	1803.545	1802.572	1801.574	1800.552	1799.505	1798.434	1797.357	1796.302						
EXISTING GROUND LEVEL		1850.582	1850.605	1850.610	1849.180	1848.392	1847.596	1846.378	1846.311	1846.725	1844.176	1843.298	1843.883	1842.641	1844.315	1840.978	1839.497	1837.441	1835.350	1840.678	1847.437	1830.418	1831.197	1833.987	1828.204	1825.970	1824.623	1823.159	1822.016	1823.949	1831.700	1827.157	1825.194	1817.495	1816.399	1815.389	1816.116	1817.135	1814.123	1813.088	1812.131	1811.400	1810.100	1809.658	1809.192	1808.235	1807.288	1806.353	1805.423	1804.493	1803.661	1803.149	1802.220	1802.572	1801.574	1800.552	1799.505	1798.434	1797.000	1796.929	1796.302
GROUND LVL 10.0m LHS		1847.357	1849.599	1847.813	1844.371	1846.371	1845.749	1846.378	1846.523	1847.702	1844.261	1842.636	1839.883	1839.883	1841.740	1840.368	1839.352	1839.330	1832.593	1835.350	1840.678	1829.406	1828.362	1833.987	1828.204	1825.970	1824.623	1823.330	1822.016	1823.949	1831.700	1819.668	1816.557	1817.495	1816.399	1815.389	1816.116	1817.135	1814.574	1813.536	1812.227	1811.400	1810.100	1809.658	1809.192	1808.235	1807.288	1806.353	1805.423	1804.493	1803.661	1803.149	1802.220	1802.572	1801.574	1800.552	1799.505	1798.434	1797.000	1796.929	1796.302
GROUND LVL 10.0m RHS		1854.142	1856.756	1858.848	1857.241	1854.749	1854.398	1847.695	1846.595	1847.702	1844.261	1842.636	1839.883	1839.883	1841.740	1840.368	1839.352	1839.330	1832.593	1835.350	1840.678	1829.406	1828.362	1833.987	1828.204	1825.970	1824.623	1823.330	1822.016	1823.949	1831.700	1819.668	1816.557	1817.495	1816.399	1815.389	1816.116	1817.135	1814.574	1813.536	1812.227	1811.400	1810.100	1809.658	1809.192	1808.235	1807.288	1806.353	1805.423	1804.493	1803.661	1803.149	1802.220	1802.572	1801.574	1800.552	1799.505	1798.434	1797.000	1796.929	1796.302
HORIZONTAL	R 20.522m		L=35.000m		L=52.816m		L=25.000m		L=25.000m		L=26.775m		R=40.000m		L=63.795m		L=		R=80.000m		L=46.064m		L=25.000m		L=25.000m		L=109.040m		L=		R		L=53.563m		L=25.000m		R=230.000m		L=44.872m		L=25.000m		L=59.854m		L=25.000m		L=17.469m		L=21.450m		L=25.000m		R=80.000m		L=53.063m		L=25.000m		L=		
VERTICAL	R=15542.398m		L=160.000m		G=-5.347		L=67.825m		R=21201.419m		L=120.000m		G=-5.913		L=133.268m		L=180.000m		R=19318.313m		L=88.845m		G=-4.981		L=120.000m		R=36030.676m		L=35.000m		G=-4.648		R=16211.810m		L=120.000m		G=-5.389		L=44.577m																						
SUPER ELEVATION	Q=9.259		Q=2.500		Q=5.689		Q=2.500		Q=2.500		Q=4.444		Q=5.000		Q=2.500		Q=2.500		Q=5.926		Q=2.500		Q=2.500		Q=6.667		Q=2.500		Q=4.831		Q=2.500		Q=2.500		Q=5.926		Q=2.500		Q=2.500		Q=8.889																				
CHAINAGE	70+000	70+020	70+040	70+060	70+080	70+100	70+120	70+140	70+160	70+180	70+200	70+220	70+240	70+260	70+280	70+300	70+320	70+340	70+360	70+380	70+400	70+420	70+440	70+460	70+480	70+500	70+520	70+540	70+560	70+580	70+600	70+620	70+640	70+660	70+680	70+700	70+720	70+740	70+760	70+780	70+800	70+820	70+840	70+860	70+880	70+900	70+920	70+940	70+960	70+980	71+000	71+020	71+040								

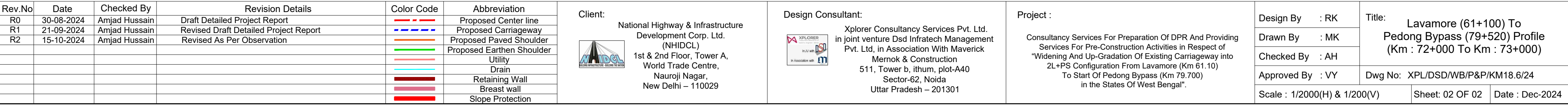


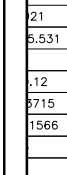
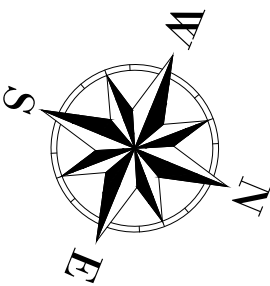
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: XPLCONSULT in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect Of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By	: RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 71+040 To Km : 72+000)			
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By	: MK				
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By	: AH				
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By	: VY	Dwg No:	XPL/DSD/WB/P&P/KM18.6/21		
					Proposed Earthen Shoulder				Scale :	1/2000(H)	Sheet:	01 OF 02	Date :	Dec-2024
					Utility									
					Drain									
					Retaining Wall									
					Breast wall									
					Slope Protection									



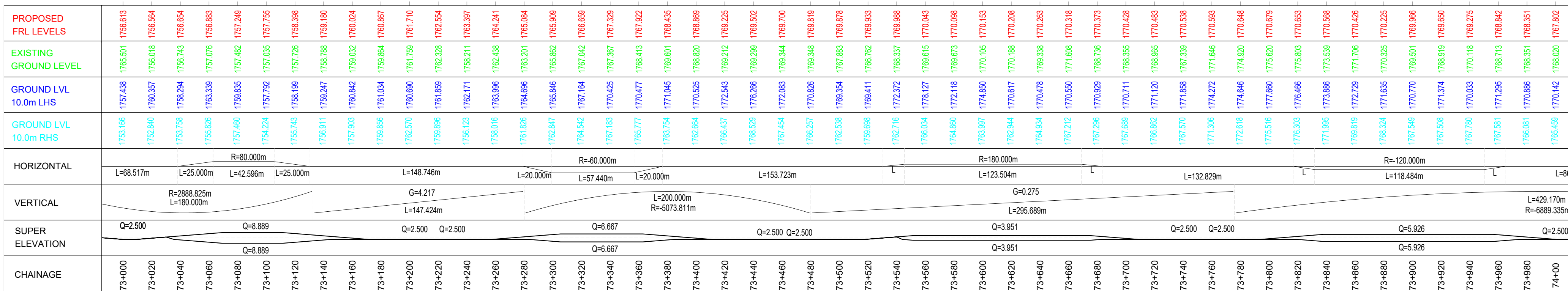


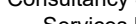
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infracore Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, itium, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 72+000 To Km : 73+000)				
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK					
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH					
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder					Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/23			
					Proposed Earthen Shoulder					Scale : 1/2000(H)			Sheet: 01 Of 02	Date : Dec-2024
					Utility									
					Drain									
					Retaining Wall									
					Breast wall									
					Slope Protection									

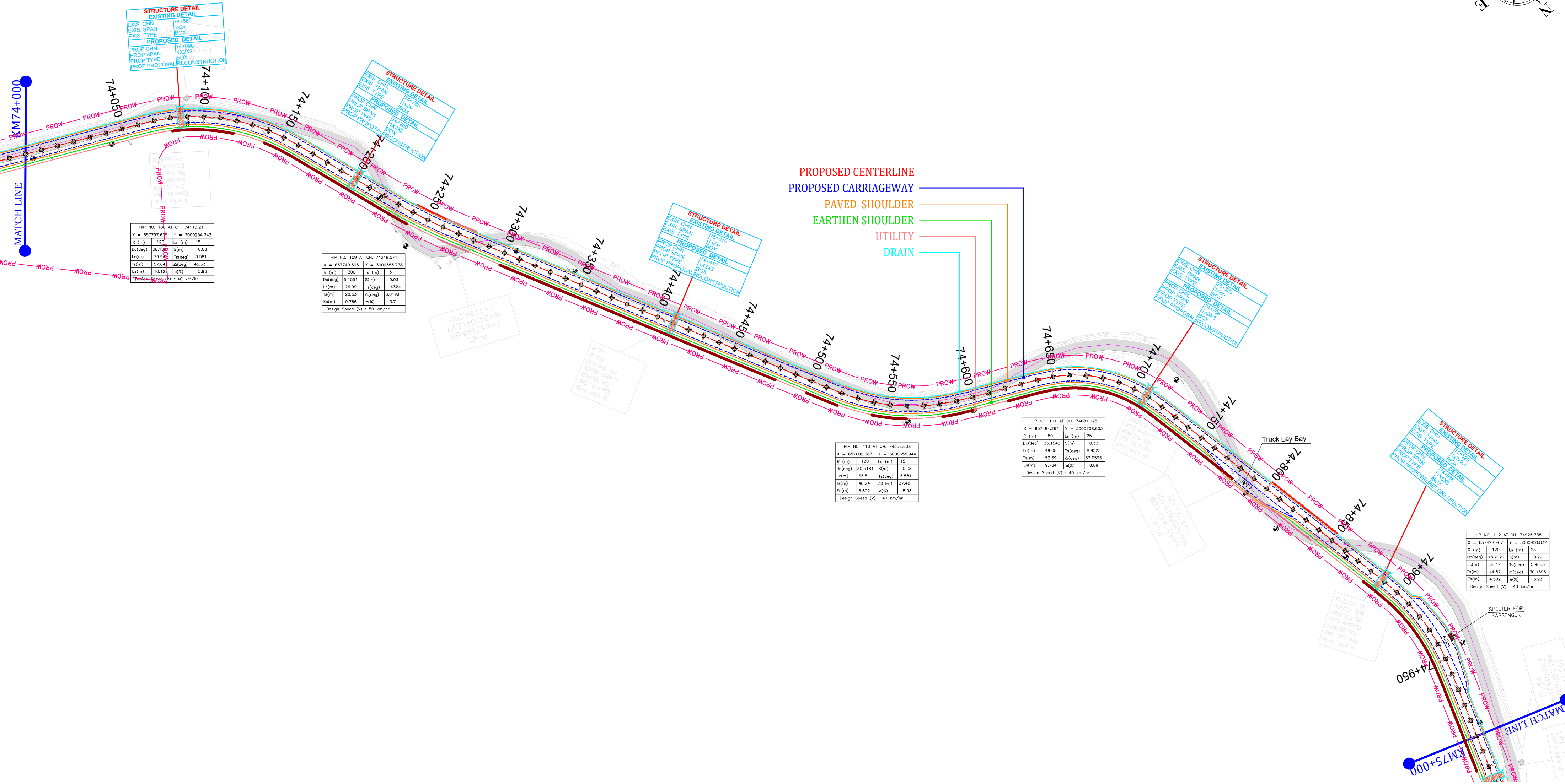
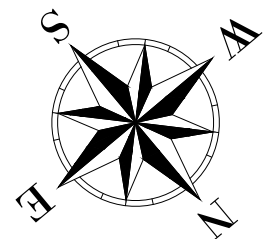


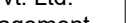


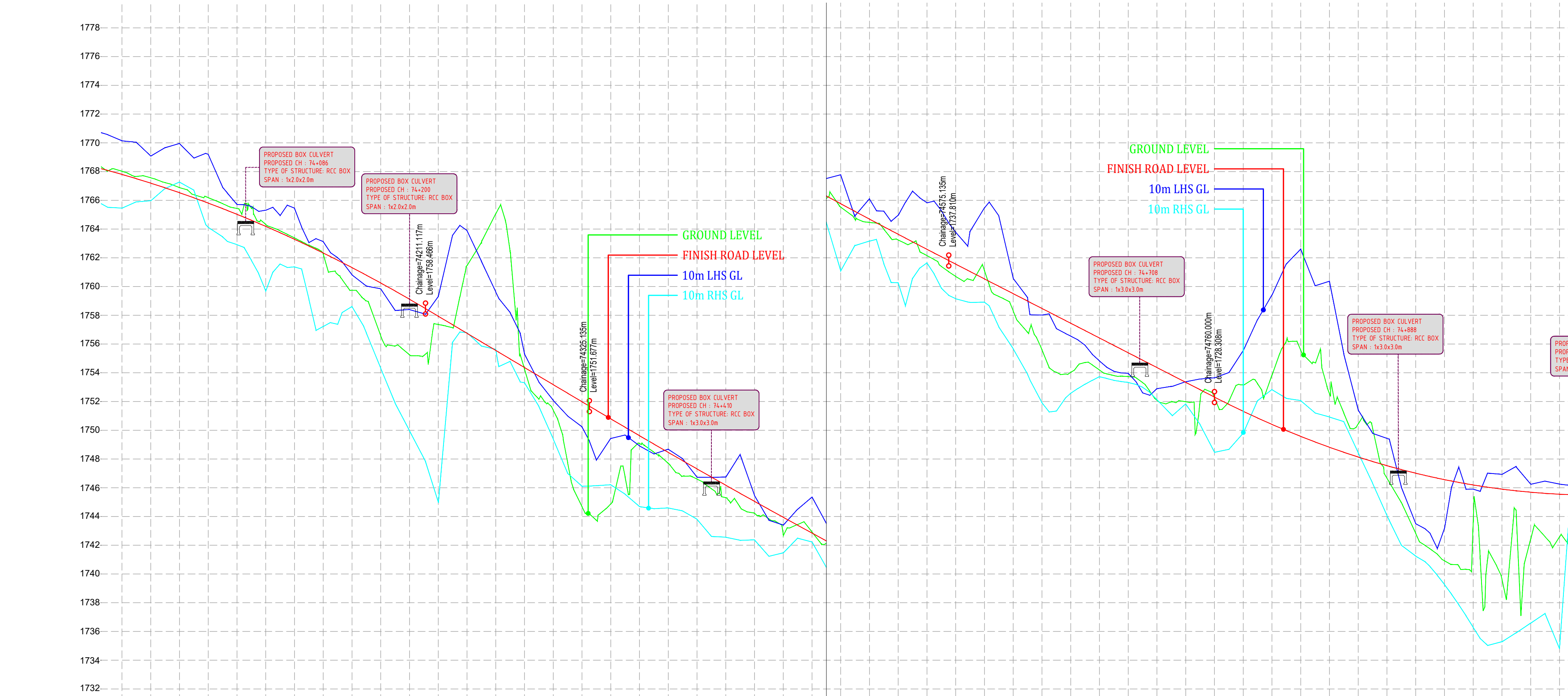
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 73+000 To Km : 74+000)		
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK			
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH			
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/25		
					Proposed Earthen Shoulder				Scale : 1/2000(H)	Sheet: 01 OF 02	Date : Dec-2024	
					Utility							
					Drain							
					Retaining Wall							
					Breast wall							
					Slope Protection							

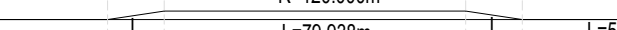
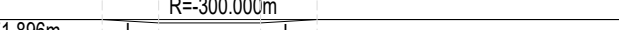
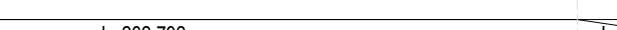
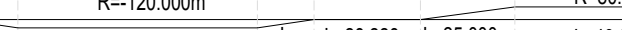
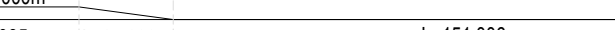
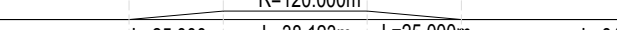
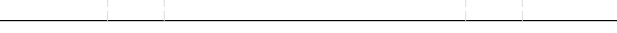
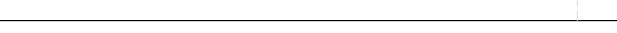
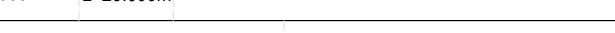
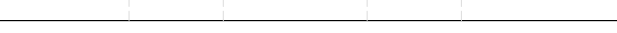


Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 73+000 To Km : 74+000)	
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK		
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH		
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/26	
					Proposed Earthen Shoulder				Scale : 1/2000(H) & 1/200(V)	Sheet: 02 OF 02	Date : Dec-2024
					Utility						
					Drain						
					Retaining Wall						
					Breast wall						
					Slope Protection						



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infracore Management Pvt. Ltd, in Association With Maverick Memok & Construction    511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 74+000 To Km : 75+000)				
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK					
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH					
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder						Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/27		
					Proposed Earthen Shoulder									
					Utility									
					Drain									
					Retaining Wall									
					Breast wall									
					Slope Protection									



PROPOSED FRL LEVELS	1767.802	1767.195	1766.530	1765.807	1765.026	1764.186	1763.289	1762.334	1761.320	1760.249	1759.119	1757.937	1756.746	1755.555	1754.365	1753.174	1751.983	1750.795	1749.621	1748.459	1747.311	1746.175	1745.053	1743.943	1742.847	1741.763	1740.693	1739.635	1738.591	1737.560	1736.532	1735.504	1734.476	1733.448	1732.420	1731.392	1730.364	1729.336	1728.308	1727.319	1726.408	1725.573	1724.616	1724.137	1723.535	1723.011	1722.564	1722.194	1721.902	1721.688	1721.550	
EXISTING GROUND LEVEL	1768.020	1767.568	1766.885	1766.188	1765.435	1764.323	1763.386	1762.271	1759.741	1756.568	1755.252	1757.363	1761.464	1765.064	1754.266	1751.400	1744.681	1744.875	1749.072	1747.698	1746.603	1745.310	1744.231	1742.736	1742.921	1741.528	1740.461	1739.242	1738.156	1736.701	1737.109	1734.303	1731.606	1730.034	1730.193	1729.736	1728.086	1727.965	1728.275	1729.155	1729.826	1731.575	1728.535	1726.441	1722.665	1718.826	1719.501	1719.162	1721.904	1722.932	1722.245	1722.252
GROUND LVL 10.0m LHS	1770.142	1769.083	1769.954	1768.199	1765.709	1765.312	1765.454	1763.126	1760.815	1759.841	1758.389	1759.298	1763.898	1759.627	1755.312	1752.079	1750.237	1749.433	1748.914	1748.681	1746.734	1746.741	1745.463	1743.400	1742.736	1743.774	1742.102	1740.962	1739.242	1738.156	1737.780	1734.476	1733.554	1730.824	1729.965	1728.898	1728.378	1729.649	1728.275	1729.155	1731.538	1735.412	1738.601	1736.367	1727.412	1725.433	1719.501	1719.162	1721.904	1722.932	1722.245	1722.252
GROUND LVL 10.0m RHS	1765.459	1765.969	1767.271	1764.122	1762.915	1759.692	1761.369	1757.224	1756.610	1754.312	1749.969	1745.002	1756.790	1755.628	1753.314	1749.392	1746.106	1746.205	1744.687	1744.536	1743.809	1742.559	1742.372	1741.468	1742.223	1737.090	1736.162	1736.259	1737.643	1735.154	1734.911	1731.673	1727.918	1728.577	1729.728	1729.326	1726.128	1727.831	1724.469	1725.792	1728.828	1728.055	1726.923	1724.459	1720.063	1717.241	1715.288	1712.285	1711.284	1712.582	1710.801	
HORIZONTAL																																																				
VERTICAL																																																				
SUPER ELEVATION	Q=2.500 Q=2.500		Q=5.926		Q=2.500		Q=2.500		Q=3.704		Q=2.500		Q=5.926		Q=2.500		Q=2.500		Q=8.889		Q=2.500		Q=5.926		Q=2.500		Q=5.926		Q=2.500		Q=5.926		Q=2.500		Q=5.926		Q=2.500		Q=5.926		Q=2.500		Q=5.926		Q=2.500							
CHAINAGE	74+00	74+020	74+040	74+060	74+080	74+100	74+120	74+140	74+160	74+180	74+200	74+220	74+240	74+260	74+280	74+300	74+320	74+340	74+360	74+380	74+400	74+420	74+440	74+460	74+480	74+500	74+520	74+540	74+560	74+580	74+600	74+620	74+640	74+660	74+680	74+700	74+720	74+740	74+760	74+780	74+800	74+820	74+840	74+860	74+880	74+900	74+920	74+940	74+960	74+980	75+000	

Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report	---	Proposed Center line
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report	---	Proposed Carriageway
R2	15-10-2024	Amjad Hussain	Revised As Per Observation	---	Proposed Paved Shoulder
				---	Proposed Earthen Shoulder
				---	Utility
				---	Drain
				---	Retaining Wall
				---	Breast wall
				---	Slope Protection

Client:



National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)
1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029

Design Consultant:



Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction
511, Tower b, iihum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301

Project :

Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".

Design By : RK

Drawn By : MK

Checked By : AH

Approved By : VY

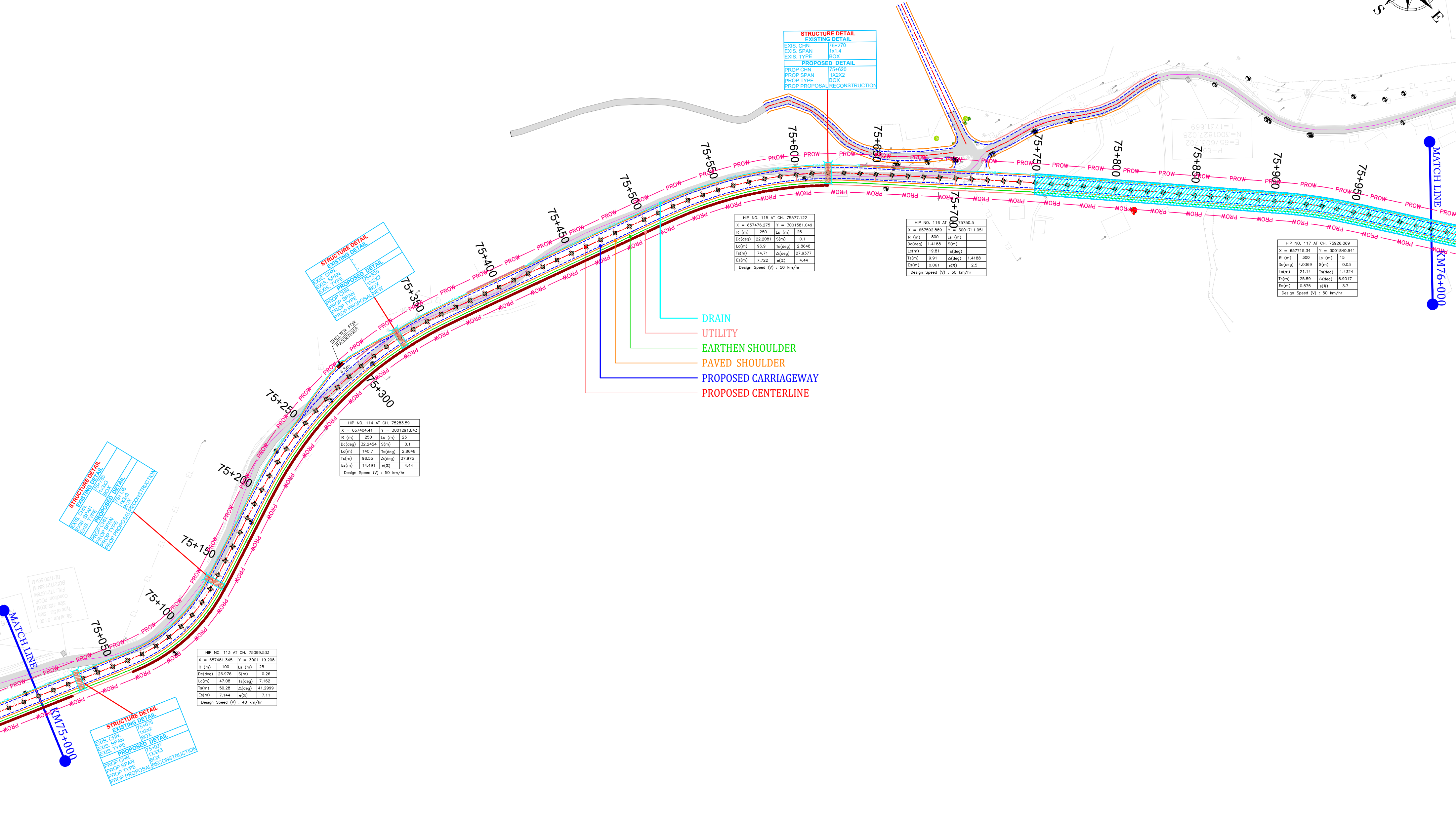
Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 74+000 To Km : 75+000)

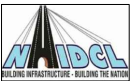
Dwg No: XPL/DSD/WB/P&P/KM18.6/28

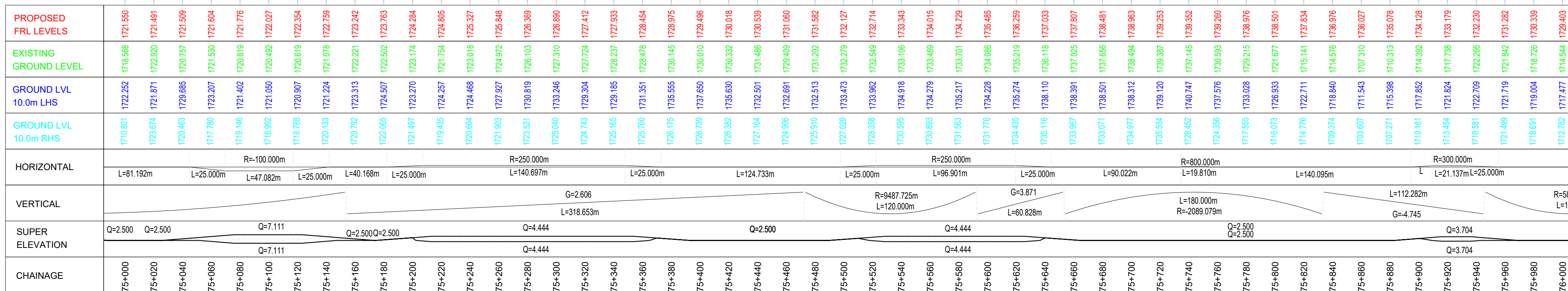
Scale : 1/2000(H) & 1/200(V)

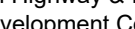
Sheet: 02 OF 02

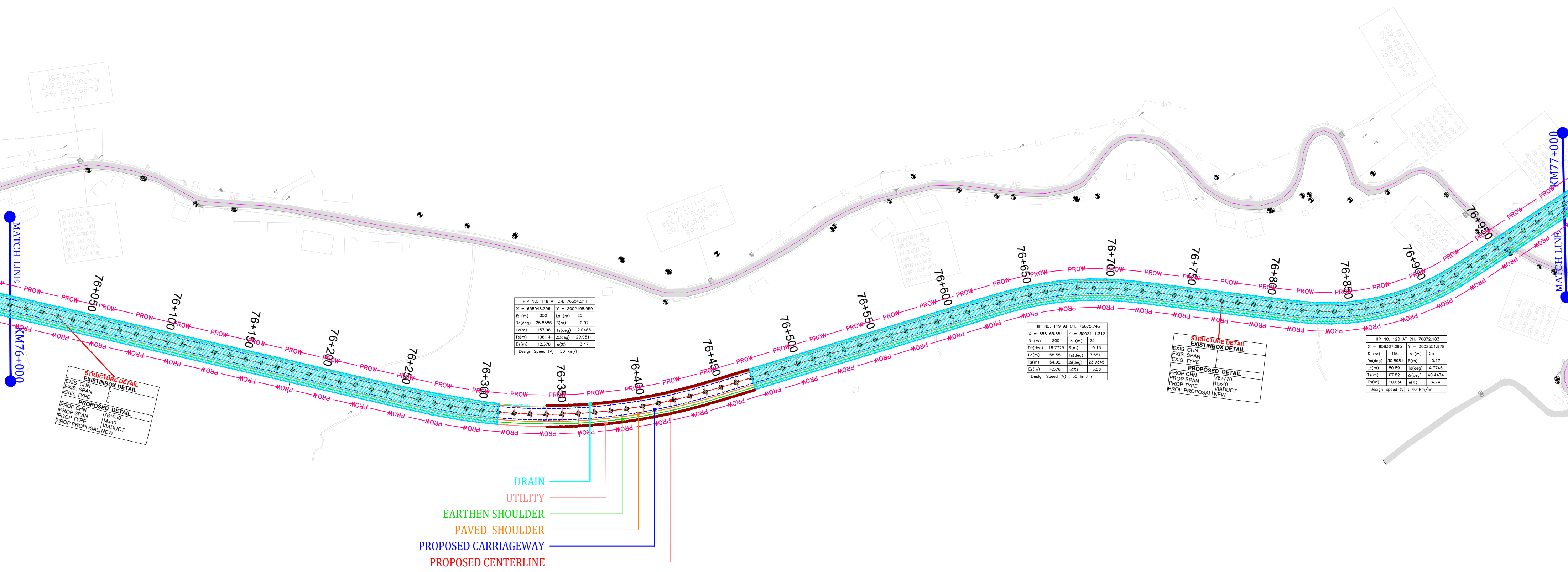
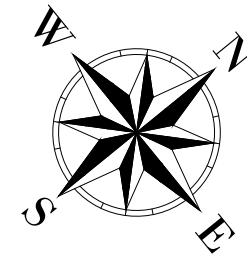
Date : Dec-2024

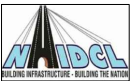
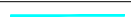


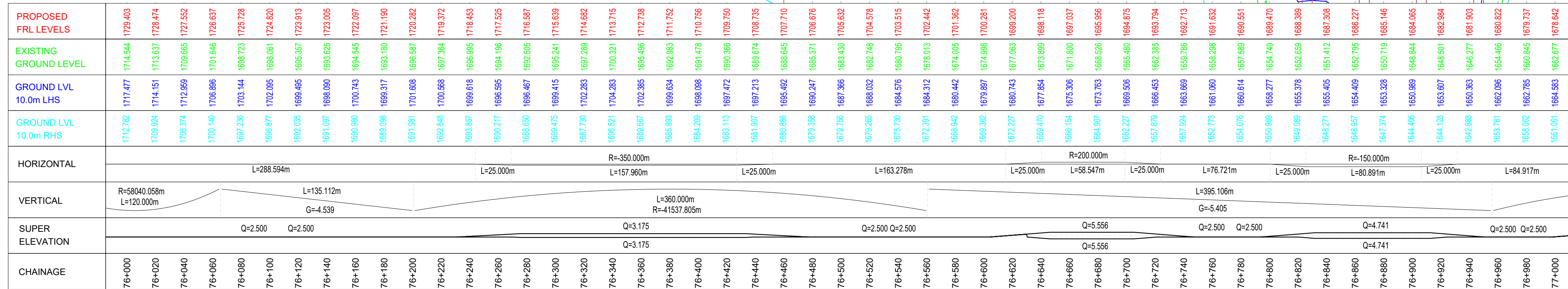
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memrok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 75+000 To Km : 76+000)	Dwg No: XPL/DSD/WB/P&P/KM18.6/29
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK		
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH		
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY		
					Proposed Earthen Shoulder				Scale : 1/2000(H) & 1/200(V)	Sheet: 01 OF 02	Date : Dec-2024
					Utility						
					Drain						
					Retaining Wall						
					Breast wall						
					Slope Protection						

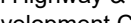


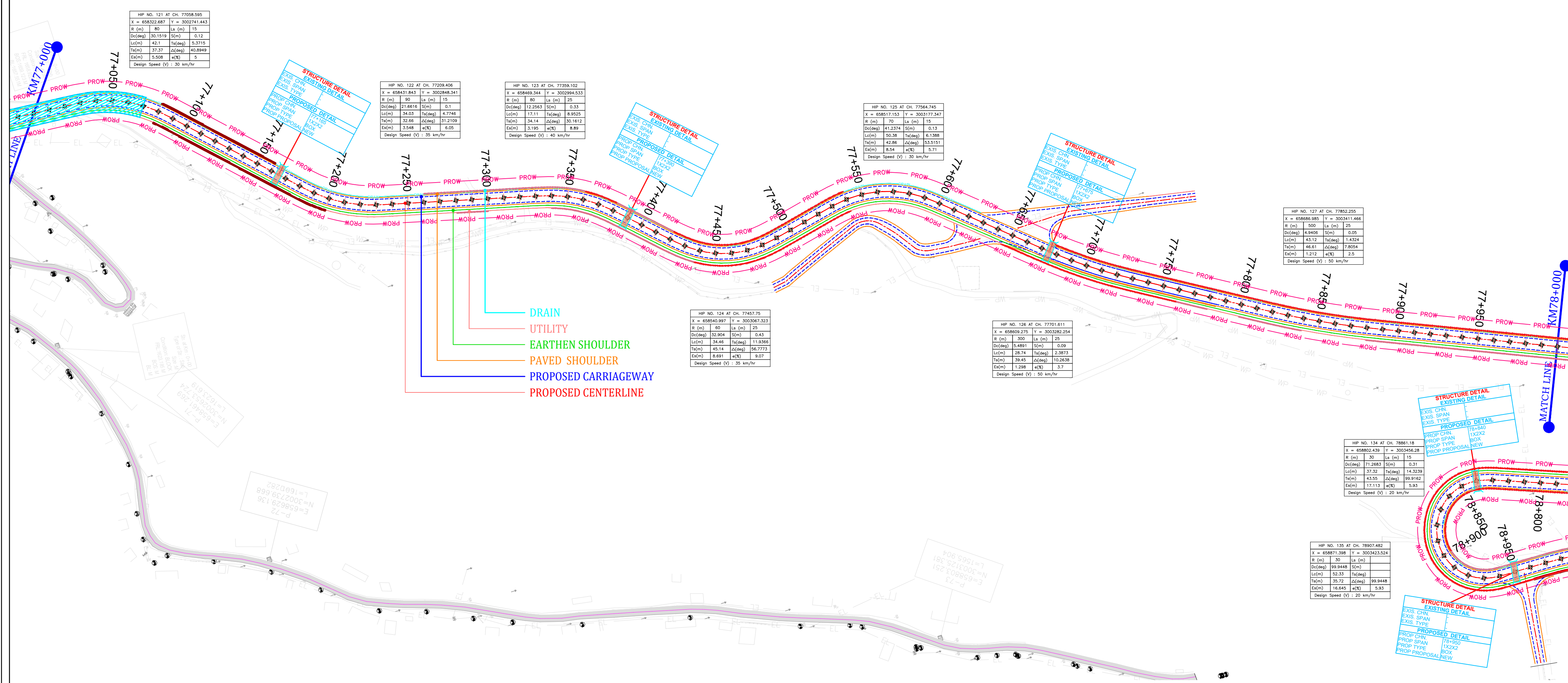
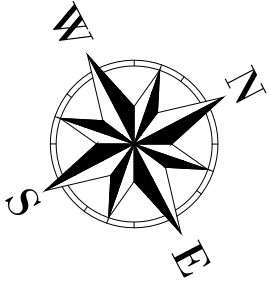
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction  511, Tower b, itum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 75+000 To Km : 76+000)			
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK				
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH				
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/30			
					Proposed Earthen Shoulder				Scale : 1/2000(H) & 1/200(V)			Sheet: 02 OF 02	Date : Dec-2024
					Utility								
					Drain								
					Retaining Wall								
					Breast wall								
					Slope Protection								



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 76+000 To Km : 77+000)
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK	
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH	
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/31
					Proposed Earthen Shoulder				Scale : 1/2000(H) & 1/200(V)	Sheet: 01 OF 02
					Utility					Date : Dec-2024
					Drain					
					Retaining Wall					
					Breast wall					
					Slope Protection					



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By	: RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 76+000 To Km : 77+000)			
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By	: MK				
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By	: AH				
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By	: VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/32	Scale : 1/2000(H) & 1/200(V)	Sheet: 02 OF 02	Date : Dec-2024
					Proposed Earthen Shoulder									
					Utility									
					Drain									
					Retaining Wall									
					Breast wall									
					Slope Protection									



HP NO. 121 AT CH. 77058.595			
X	658322.687	Y	3002741.443
R (m)	80	La (m)	15
Dc(deg)	30.1519	S(m)	0.12
Lc(m)	42.1	Ts(deg)	5.3715
Ts(m)	37.37	Δ(deg)	40.8949
Es(m)	5.508	e(%)	5
Design Speed (V) : 30 km/hr			

HP NO. 122 AT CH. 77209.406			
X	658431.843	Y	3002848.341
R (m)	90	La (m)	15
Dc(deg)	21.6616	S(m)	0.1
Lc(m)	34.03	Ts(deg)	4.7746
Ts(m)	32.86	Δ(deg)	31.2109
Es(m)	3.548	e(%)	6.05
Design Speed (V) : 35 km/hr			

HP NO. 123 AT CH. 77359.102			
X	658469.344	Y	3002994.533
R (m)	80	La (m)	25
Dc(deg)	12.2563	S(m)	0.33
Lc(m)	17.11	Ts(deg)	8.9525
Ts(m)	34.14	Δ(deg)	30.1612
Es(m)	3.195	e(%)	8.89
Design Speed (V) : 40 km/hr			

HP NO. 125 AT CH. 77564.745			
X	658517.153	Y	3003177.347
R (m)	70	La (m)	15
Dc(deg)	41.2374	S(m)	0.13
Lc(m)	50.38	Ts(deg)	6.1388
Ts(m)	42.86	Δ(deg)	53.5151
Es(m)	8.54	e(%)	5.71
Design Speed (V) : 30 km/hr			

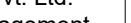
HP NO. 127 AT CH. 77852.255			
X	658686.985	Y	3003411.466
R (m)	500	La (m)	25
Dc(deg)	4.9406	S(m)	0.05
Lc(m)	43.12	Ts(deg)	1.4304
Ts(m)	46.61	Δ(deg)	7.8054
Es(m)	1.212	e(%)	2.5
Design Speed (V) : 50 km/hr			

HP NO. 124 AT CH. 77457.75			
X	658540.997	Y	3003067.323
R (m)	60	La (m)	25
Dc(deg)	32.904	S(m)	0.43
Lc(m)	34.46	Ts(deg)	11.9366
Ts(m)	45.14	Δ(deg)	56.7773
Es(m)	8.691	e(%)	9.07
Design Speed (V) : 35 km/hr			

HP NO. 126 AT CH. 77701.611			
X	658609.275	Y	3003282.254
R (m)	300	La (m)	25
Dc(deg)	5.4891	S(m)	0.09
Lc(m)	28.74	Ts(deg)	2.3873
Ts(m)	39.45	Δ(deg)	10.2638
Es(m)	1.298	e(%)	3.7
Design Speed (V) : 50 km/hr			

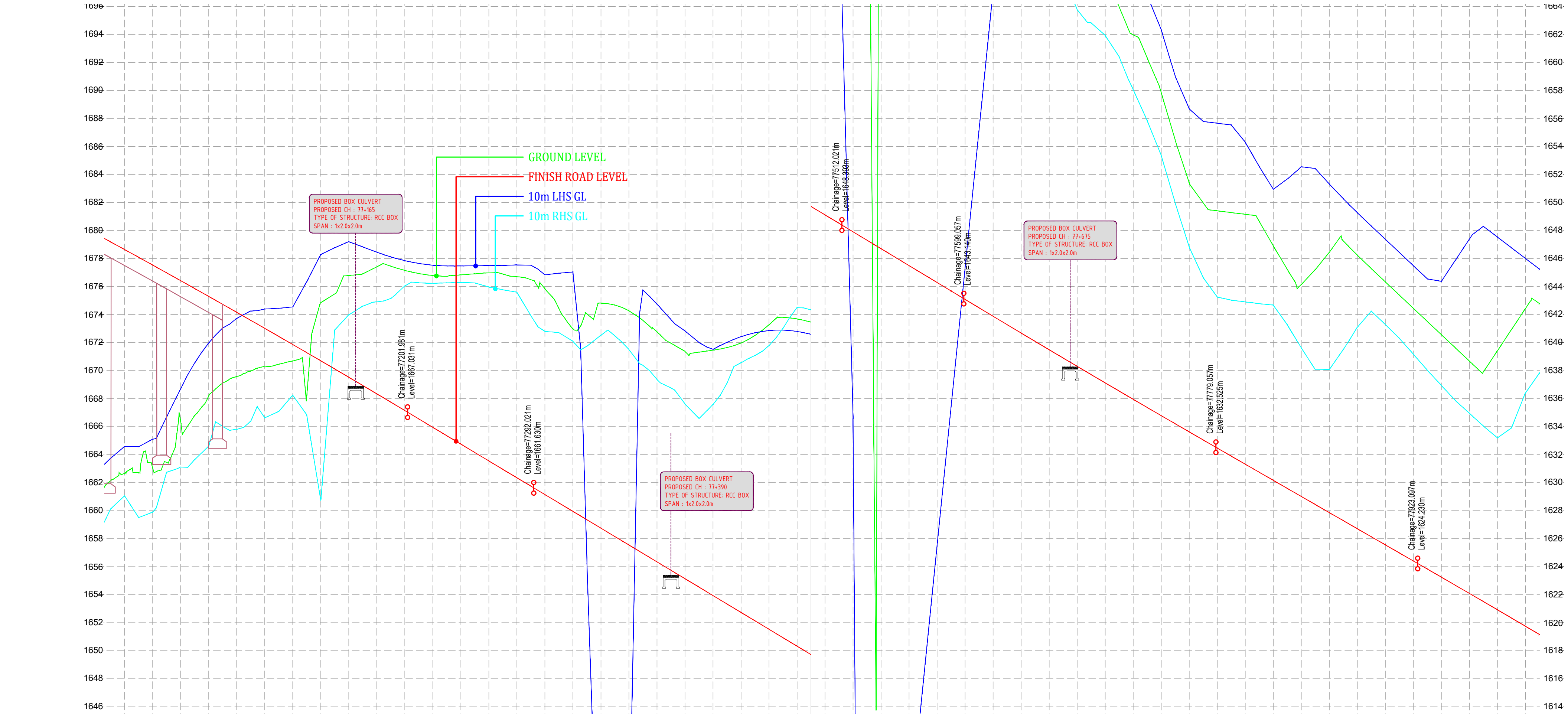
HP NO. 134 AT CH. 78861.18			
X	658902.435	Y	3003456.28
R (m)	30	La (m)	15
Dc(deg)	71.2683	S(m)	0.31
Lc(m)	37.32	Ts(deg)	14.3239
Ts(m)	43.55	Δ(deg)	99.9162
Es(m)	17.113	e(%)	5.93
Design Speed (V) : 20 km/hr			

HP NO. 135 AT CH. 78907.482			
X	658871.398	Y	3003423.524
R (m)	30	La (m)	15
Dc(deg)	99.8448	S(m)	
Lc(m)	52.33	Ts(deg)	
Ts(m)	35.72	Δ(deg)	99.9448
Es(m)	16.645	e(%)	5.93
Design Speed (V) : 20 km/hr			

Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By	: RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 77+000 To Km : 78+000)
Drawn By	: MK										
Checked By	: AH										
Approved By	: VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/33									
Scale : 1/2000(H) & 1/200(V)		Sheet: 01 OF 02	Date : Dec-2024								
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line						
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway						
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder						
					Proposed Earthen Shoulder						
					Utility						
					Drain						
					Retaining Wall						
					Breast wall						
					Slope Protection						

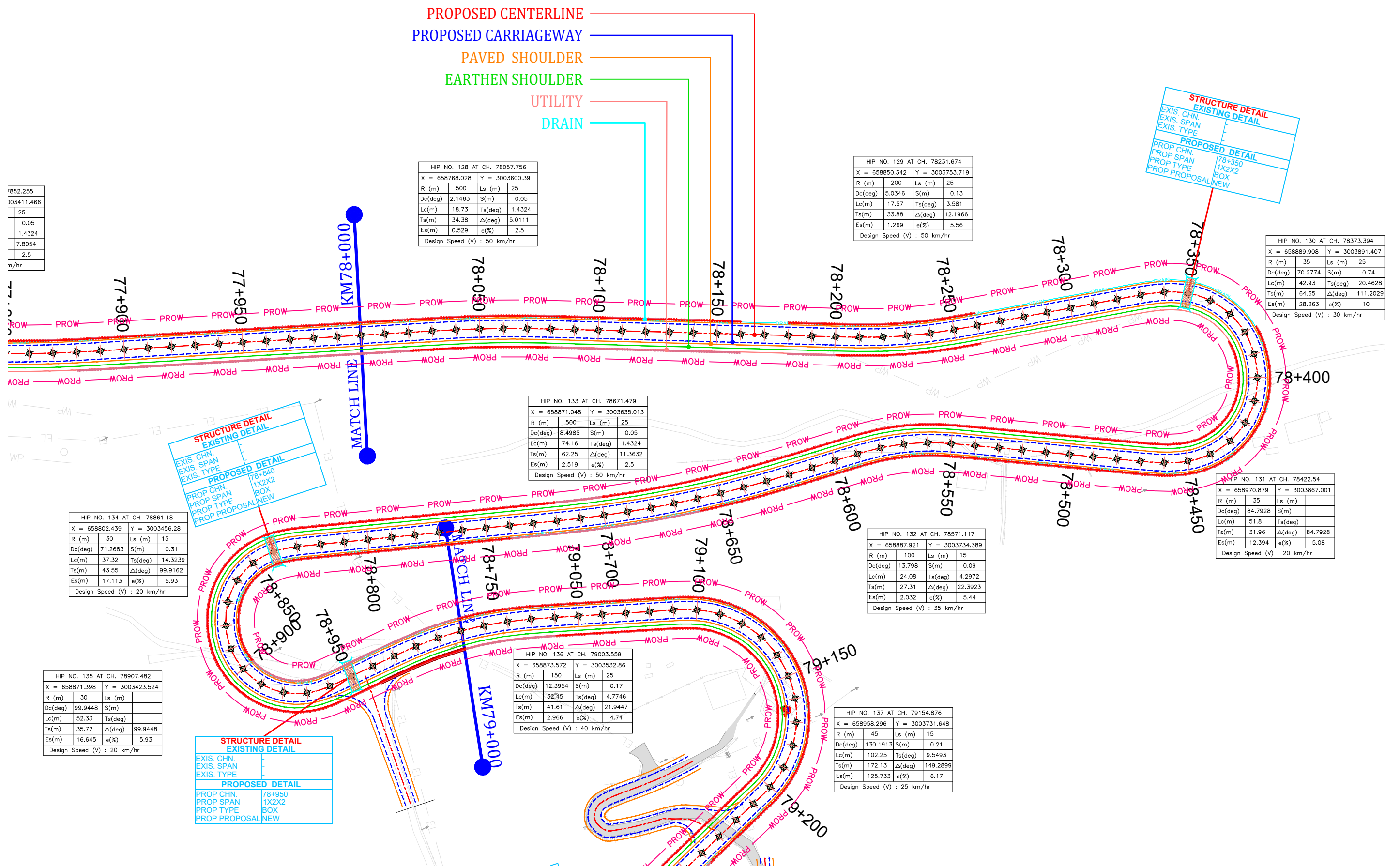
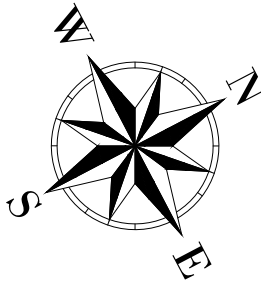
← TO LAVAMORE (NH-717A)

TO PEDONG BYPASS (NH-717A) ➡



PROPOSED FRL LEVELS	1678.642	1677.537	1676.422	1675.298	1674.163	1673.019	1671.865	1670.701	1669.527	1668.343	1667.148	1665.950	1664.750	1663.551	1662.351	1661.151	1659.951	1658.750	1657.548	1656.346	1655.143	1653.940	1652.735	1651.530	1650.325	1649.118	1647.911	1646.704	1645.497	1644.290	1643.083	1639.490	1638.305	1637.126	1635.953	1634.786	1633.625	1632.471	1631.319	1630.167	1629.015	1627.863	1626.712	1625.560	1624.408	1623.254	1622.093	1620.926	1619.751		
EXISTING GROUND LEVEL	1662.677	1663.060	1666.368	1668.201	1669.983	1670.274	1670.688	1674.855	1676.793	1677.408	1677.153	1676.788	1676.835	1676.977	1676.705	1675.845	1672.980	1674.824	1674.272	1672.769	1671.375	1671.458	1671.970	1673.273	1673.692	1673.175	1672.580	-999.000	-999.000	-999.000	-999.000	1674.133	1667.080	1665.290	1661.975	1657.856	1651.401	1649.410	1649.159	1646.916	1644.146	1646.445	1646.248	1644.335	1642.450	1640.565	1638.680	1639.415	1642.427		
GROUND LVL 10.0m LHS	1684.583	1685.103	1688.702	1671.972	1673.728	1674.397	1674.544	1678.290	1679.206	1678.458	1677.851	1677.527	1677.472	1677.499	1677.545	1676.836	1677.039	1626.663	1635.428	1674.742	1672.831	1671.522	1672.424	1672.860	1672.798	1672.312	1634.565	-999.000	-999.000	-999.000	-999.000	1673.574	1670.528	1668.665	1665.886	1662.343	1656.688	1655.664	1654.308	1650.949	1652.559	1651.320	1649.276	1647.378	1645.493	1644.373	1647.385	1647.537	1646.010		
GROUND LVL 10.0m RHS	1661.061	1659.880	1663.118	1664.605	1665.805	1666.630	1668.246	1680.722	1673.982	1674.912	1676.053	1676.238	1676.292	1675.967	1675.597	1672.802	1672.093	1672.525	1671.503	1669.369	1667.619	1667.588	1670.561	1671.791	1674.507	1674.037	1673.442	1672.072	-999.000	-999.000	1672.825	1673.038	1668.494	1663.773	1661.936	1658.065	1653.369	1646.822	1643.256	1642.906	1642.679	1639.628	1638.078	1641.100	1641.293	1639.176	1636.946	1634.954	1633.199	1636.405	
HORIZONTAL																																																			
VERTICAL																																																			
SUPER ELEVATION																																																			
CHAINAGE	77+000	77+020	77+040	77+060	77+080	77+100	77+120	77+140	77+160	77+180	77+200	77+220	77+240	77+260	77+280	77+300	77+320	77+340	77+360	77+380	77+400	77+420	77+440	77+460	77+480	77+500	77+520	77+540	77+560	77+580	77+600	77+620	77+640	77+660	77+680	77+700	77+720	77+740	77+760	77+780	77+800	77+820	77+840	77+860	77+880	77+900	77+920	77+940	77+960	77+980	78+000

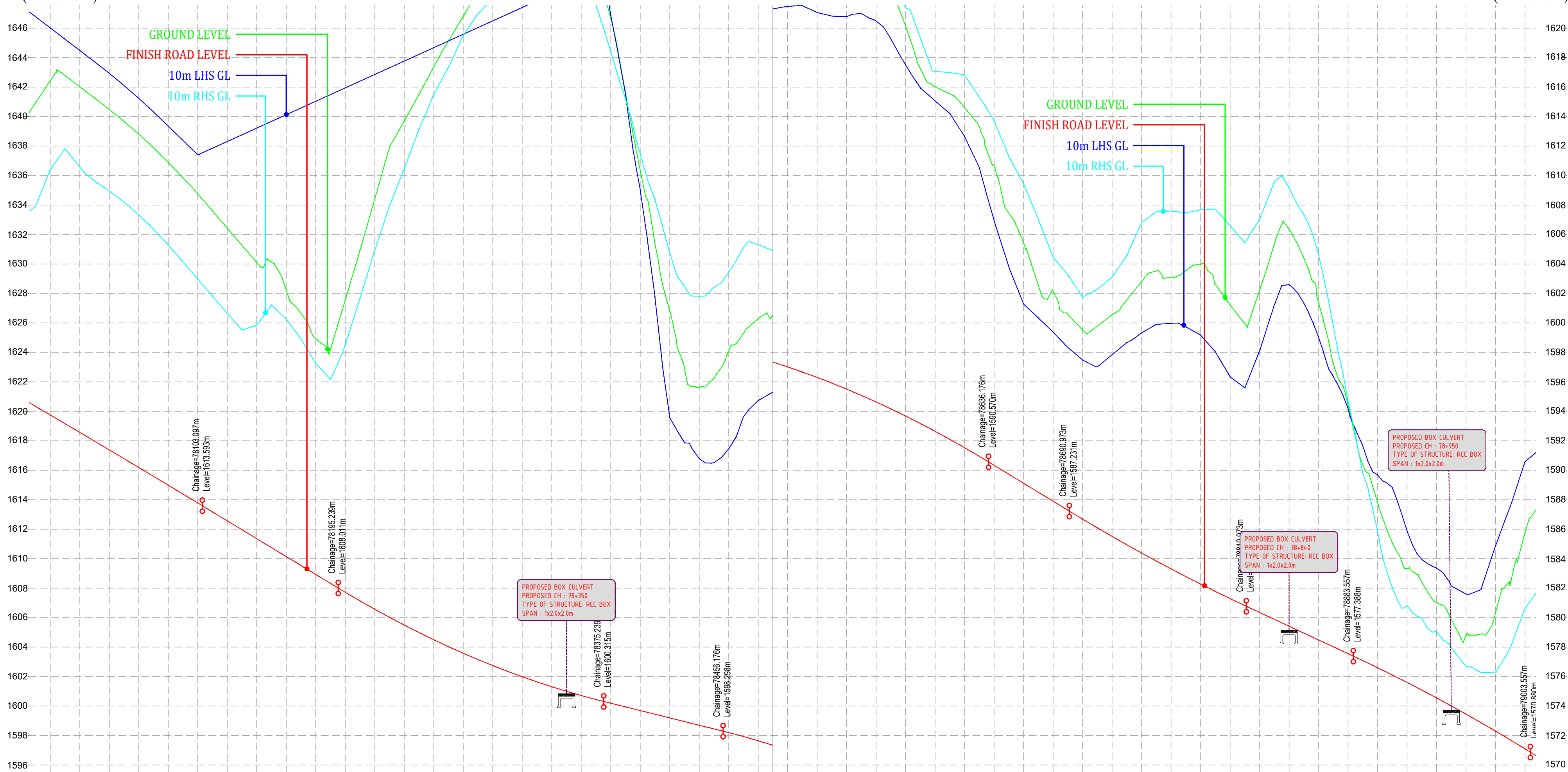
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 77+000 To Km : 78+000)			
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".					
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Drawn By : MK				
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Checked By : AH				
					Proposed Earthen Shoulder						Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/34	
					Utility						Scale : 1/2000(H) & 1/200(V)	Sheet: 02 OF 02	Date : Dec-2024
					Drain								
					Retaining Wall								
					Breast wall								
					Slope Protection								



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title:
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report	---	Proposed Center line	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Drawn By : MK	Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 78+000 To Km : 79+000)
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report	---	Proposed Carriageway				Checked By : AH	
R2	15-10-2024	Amjad Hussain	Revised As Per Observation	---	Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/35
				---	Proposed Earthen Shoulder				Scale : 1/2000(H) & 1/200(V)	Sheet: 01 OF 02
				---	Utility					Date : Dec-2024
				---	Drain					
				---	Retaining Wall					
				---	Breast wall					
				---	Slope Protection					

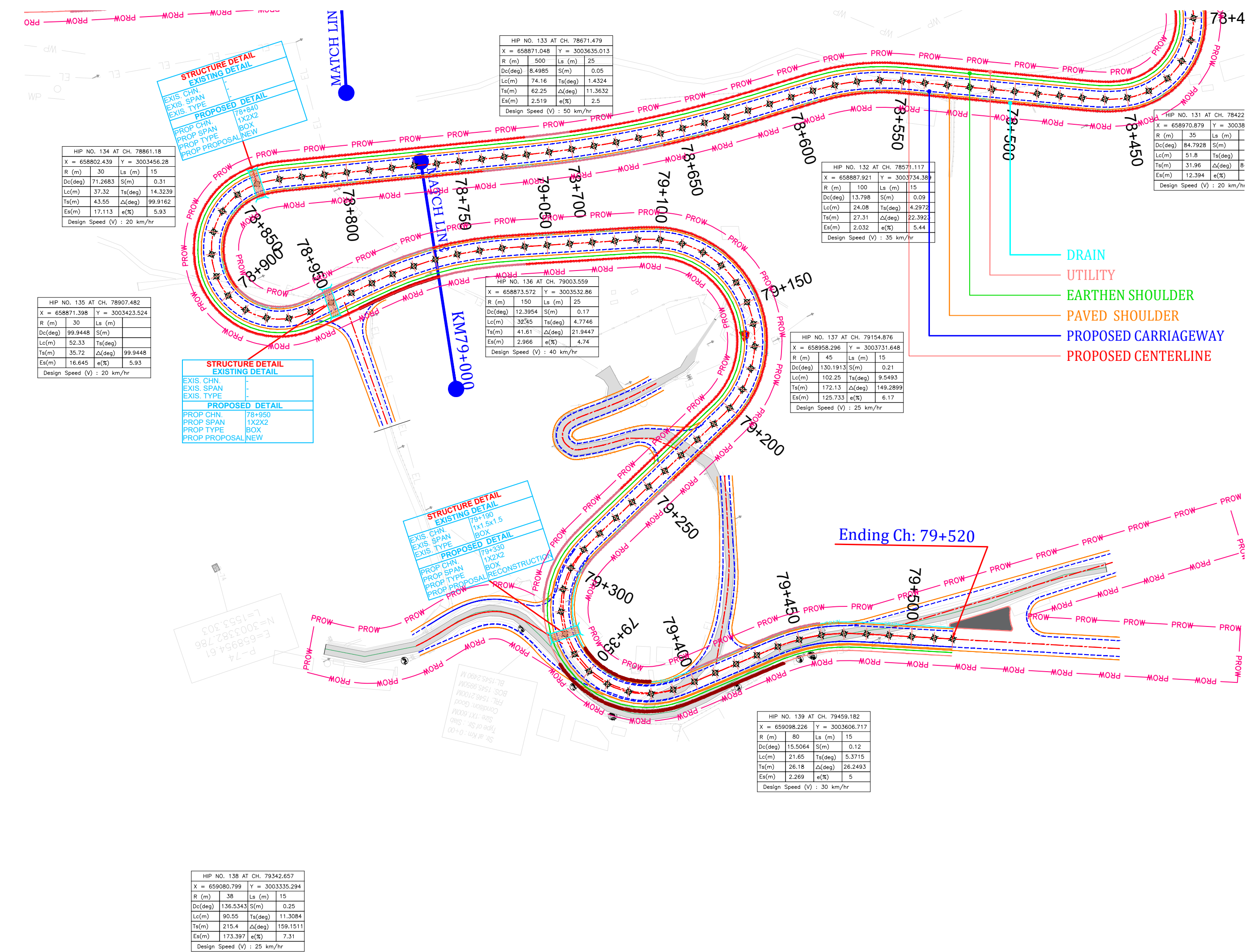
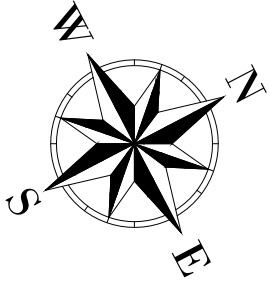
← TO LAVAMORE (NH-717A)

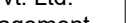
TO PEDONG BYPASS (NH-717A) →



PROPOSED FRL LEVELS	1619.751	1618.571	1617.383	1616.189	1614.988	1613.781	1612.569	1611.357	1610.146	1608.934	1607.724	1606.571	1605.497	1604.502	1603.587	1602.751	1601.994	1601.316	1600.717	1600.196	1599.698	1599.199	1598.701	1598.201	1597.647	1597.014	1596.300	1595.506	1594.632	1593.678	1592.644	1591.530	1590.337	1589.118	1587.900	1586.686	1585.512	1584.386	1583.308	1582.277	1581.294	1580.353	1579.420	1578.487	1577.554	1576.603	1575.603	1574.553	1573.452	1572.301	1571.099	
EXISTING GROUND LEVEL	1642.427	1642.023	1640.480	1638.813	1636.872	1634.754	1632.425	1630.096	1628.216	1624.934	1627.548	1634.400	1639.689	1643.352	1646.802	999.000	999.000	999.000	999.000	1646.894	1636.697	1626.808	1621.605	1624.084	1626.273	1626.097	1625.513	1624.337	1623.816	1620.138	1616.005	1610.661	1605.413	1602.139	1599.511	1600.552	1602.804	1603.061	1603.989	1601.220	1602.214	1606.349	1601.383	1594.431	1587.821	1583.333	1581.012	1578.779	1580.338	1585.775		
GROUND LVL 10.0m LHS	1646.010	1644.483	1642.932	1641.234	1639.351	1637.400	999.000	999.000	999.000	999.000	999.000	999.000	999.000	999.000	999.000	999.000	999.000	999.000	999.000	1646.894	1635.024	1619.577	1616.782	1617.452	1620.725	1621.478	1621.657	1620.779	1620.474	1620.138	1617.494	1615.059	1612.642	1606.942	1601.279	1599.381	1597.484	1597.840	1599.324	1599.969	1599.170	1596.340	1598.091	1602.597	1599.023	1594.151	1589.693	1585.877	1583.361	1581.602	1584.880	1590.597
GROUND LVL 10.0m RHS	1636.405	1636.584	1634.950	1633.336	1631.282	1628.973	1626.644	1625.838	1626.254	1623.242	1624.532	1630.933	1636.464	1641.487	1645.497	1647.997	1650.015	1652.199	1650.136	1644.406	1637.461	1630.762	1627.801	1629.435	1631.303	1630.388	1630.279	1629.348	1626.981	1621.378	1617.061	1616.812	1613.704	1609.438	1604.447	1601.754	1603.105	1606.815	1607.588	1607.669	1606.594	1607.022	1609.164	1604.620	1594.663	1585.863	1580.814	1579.045	1576.690	1576.300	1580.635	
HORIZONTAL	L=18.730m		L=25.000m		R	L=25.000m		L=105.767m		L=25.000m		R	L=25.000m		L=61.467m		L=25.000m		L=42.931m		L	L=51.797m		L=25.000m		L=70.638m		L	L=24.082m		L	L=25.000m		L=74.163m		L=25.000m		L=93.962m		L	L=37.316m		L	L=52.331m		L	L=25.000m		L=32.451m			
VERTICAL	L=180.000m		R=60012.637m		L=92.141m		G=-6.059		R=5046.229m		L=180.000m		L=80.938m		G=-2.492		L=180.000m		R=4996.825m		L=54.797m		G=-6.094		R=8403.120m		L=120.000m		L=72.584m		G=4.666		L=120.000m		R=7928.999m		L=25.000m		Q=5.926		Q=2.500		Q=4									
SUPER ELEVATION	Q=5.556		Q=2.500		Q=2.500		Q=10.000		Q=5.079		Q=2.500		Q=5.444		Q=2.500		Q=5.926		Q=2.500		Q=4																															
CHAINAGE	78+000	78+020	78+040	78+060	78+080	78+100	78+120	78+140	78+160	78+180	78+200	78+220	78+240	78+260	78+280	78+300	78+320	78+340	78+360	78+380	78+400	78+420	78+440	78+460	78+480	78+500	78+520	78+540	78+560	78+580	78+600	78+620	78+640	78+660	78+680	78+700	78+720	78+740	78+760	78+780	78+800	78+820	78+840	78+860	78+880	78+900	78+920	78+940	78+960	78+980	79+000	

Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK Drawn By : MK Checked By : AH Approved By : VY Scale : 1/2000(H) & 1/200(V)	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 78+000 To Km : 79+000) Dwg No: XPL/DSD/WB/P&P/KM18.6/36	Sheet: 02 OF 02 Date : Dec-2024
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report	---	Proposed Center line						
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report	---	Proposed Carriageway						
R2	15-10-2024	Amjad Hussain	Revised As Per Observation	---	Proposed Paved Shoulder						
				---	Proposed Earthen Shoulder						
				---	Utility						
				---	Drain						
				---	Retaining Wall						
				---	Breast wall						
				---	Slope Protection						



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect Of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Plan (Km : 79+000 To Km : 79+520)
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line				Drawn By : MK	
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway				Checked By : AH	
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder				Approved By : VY	
					Proposed Earthen Shoulder					
					Utility					
					Drain					
					Retaining Wall					
					Breast wall					
					Slope Protection					

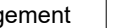
Scale : 1/2000(H) & 1/200(V)

Sheet: 01 OF 02

Date : Dec-2024

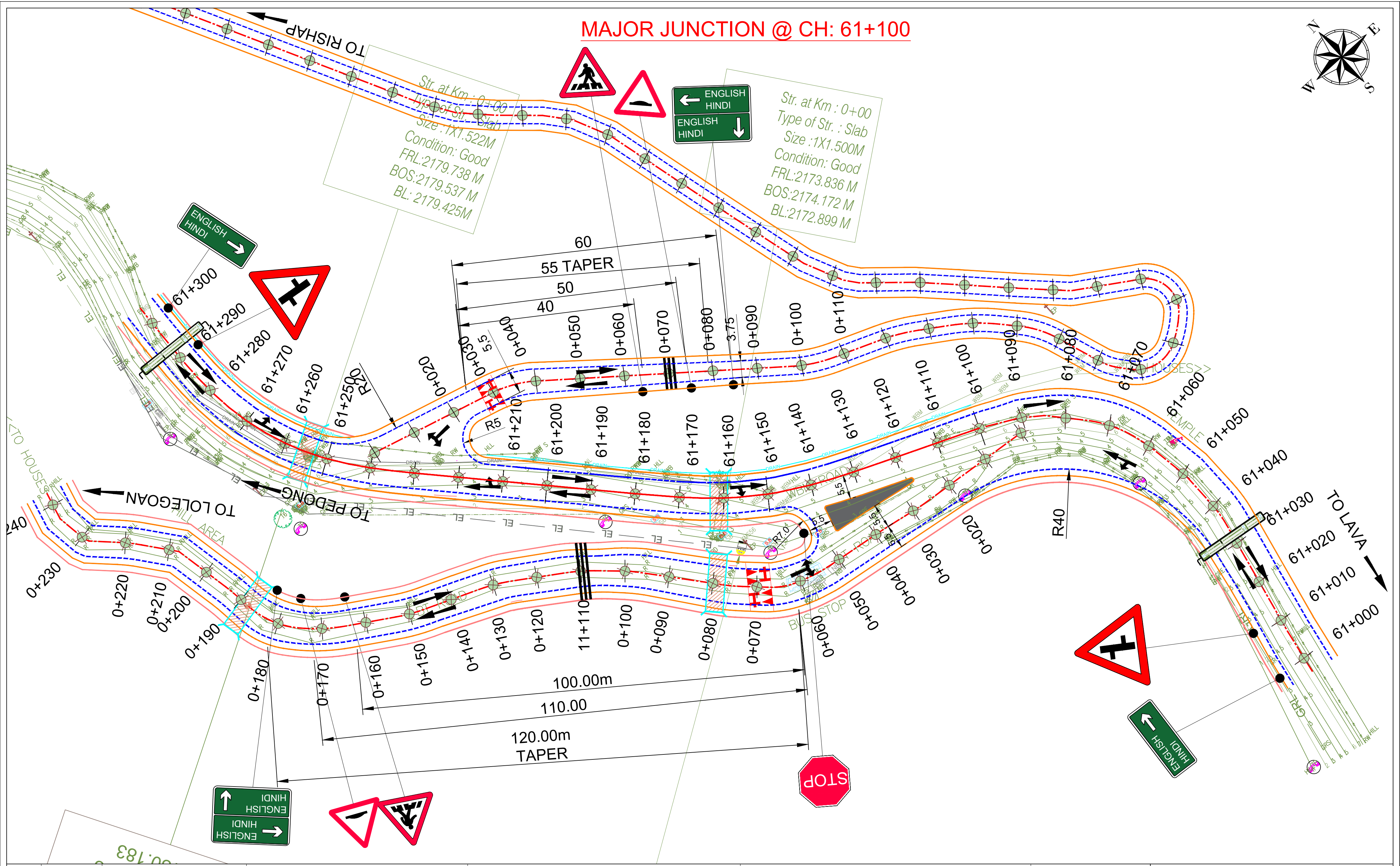
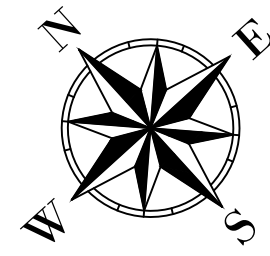


PROPOSED FRL LEVELS	1571.099	1569.864	1568.628	1567.392	1566.157	1564.927	1563.707	1562.494	1561.290	1560.094	1558.907	1557.721	1556.536	1555.350	1554.165	1552.979	1551.793	1550.607	1549.420	1548.233	1547.045	1545.856	1544.667	1543.478	1542.289	1541.100	1539.890	
EXISTING GROUND LEVEL	1585.775	1588.346	1589.127	1592.136	1591.822	1591.371	1590.346	1586.765	1580.880	1574.653	1569.167	1566.279	1562.707	1560.723	1557.646	1553.080	1548.400	1547.650	1548.137	1548.965	1547.544	1546.018	1543.826	1543.224	1542.549	1540.399	1537.777	
GROUND LVL 10.0m LHS	1590.597	1591.870	1592.196	1593.702	1593.847	1594.029	1592.775	1591.863	1587.244	1576.320	1568.000	1564.844	1561.320	1559.713	1556.989	1553.081	1549.923	1548.709	1549.508	1550.298	1550.553	1551.472	1547.525	1545.550	1543.649	1541.549	1539.501	
GROUND LVL 10.0m RHS	1590.635	1584.664	1587.539	1589.790	1590.267	1587.946	1586.137	1582.628	1580.354	1574.351	1571.121	1568.360	1565.509	1565.068	1560.658	1553.631	1547.927	1545.966	1546.253	1546.465	1546.160	1544.997	1543.607	1543.202	1541.741	1538.928	-999.000	
HORIZONTAL	R=150.000m L=32.451m L=25.000m L=43.965m L R=45.000m L=102.252m L=76.378m L R=38.000m L=90.553m L L=30.423m L R=80.000m L=21.652m L L=35.337m																											
VERTICAL	L=70.500m G=-6.180 R=47644.850m L=120.000m L=108.818m G=-5.928 L=120.000m R=697416.101m L=97.469m G=-5.945																											
SUPER ELEVATION	Q=4.741 Q=2.500 Q=2.500 Q=6.173 Q=2.500 Q=2.500 Q=7.310 Q=2.500 Q=5.000 Q=2.500 Q=4.741 Q=6.173 Q=7.310 Q=5.000																											
CHAINAGE	79+000	79+020	79+040	79+060	79+080	79+100	79+120	79+140	79+160	79+180	79+200	79+220	79+240	79+260	79+280	79+300	79+320	79+340	79+360	79+380	79+400	79+420	79+440	79+460	79+480	79+500	79+520	

Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal".	Design By : RK	Title: Lavamore (61+100) To Pedong Bypass (79+520) Profile (Km : 79+000 To Km : 79+520)		
R0	30-08-2024	Amjad Hussain	Draft Detailed Project Report		Proposed Center line		Drawn By : MK			
R1	21-09-2024	Amjad Hussain	Revised Draft Detailed Project Report		Proposed Carriageway		Checked By : AH			
R2	15-10-2024	Amjad Hussain	Revised As Per Observation		Proposed Paved Shoulder		Approved By : VY	Dwg No: XPL/DSD/WB/P&P/KM18.6/38		
					Proposed Earthen Shoulder		Scale : 1/2000(H) & 1/200(V) Sheet: 02 OF 02 Date : Dec-2024			
					Utility					
					Drain					
					Retaining Wall					
					Breast wall					
					Slope Protection					

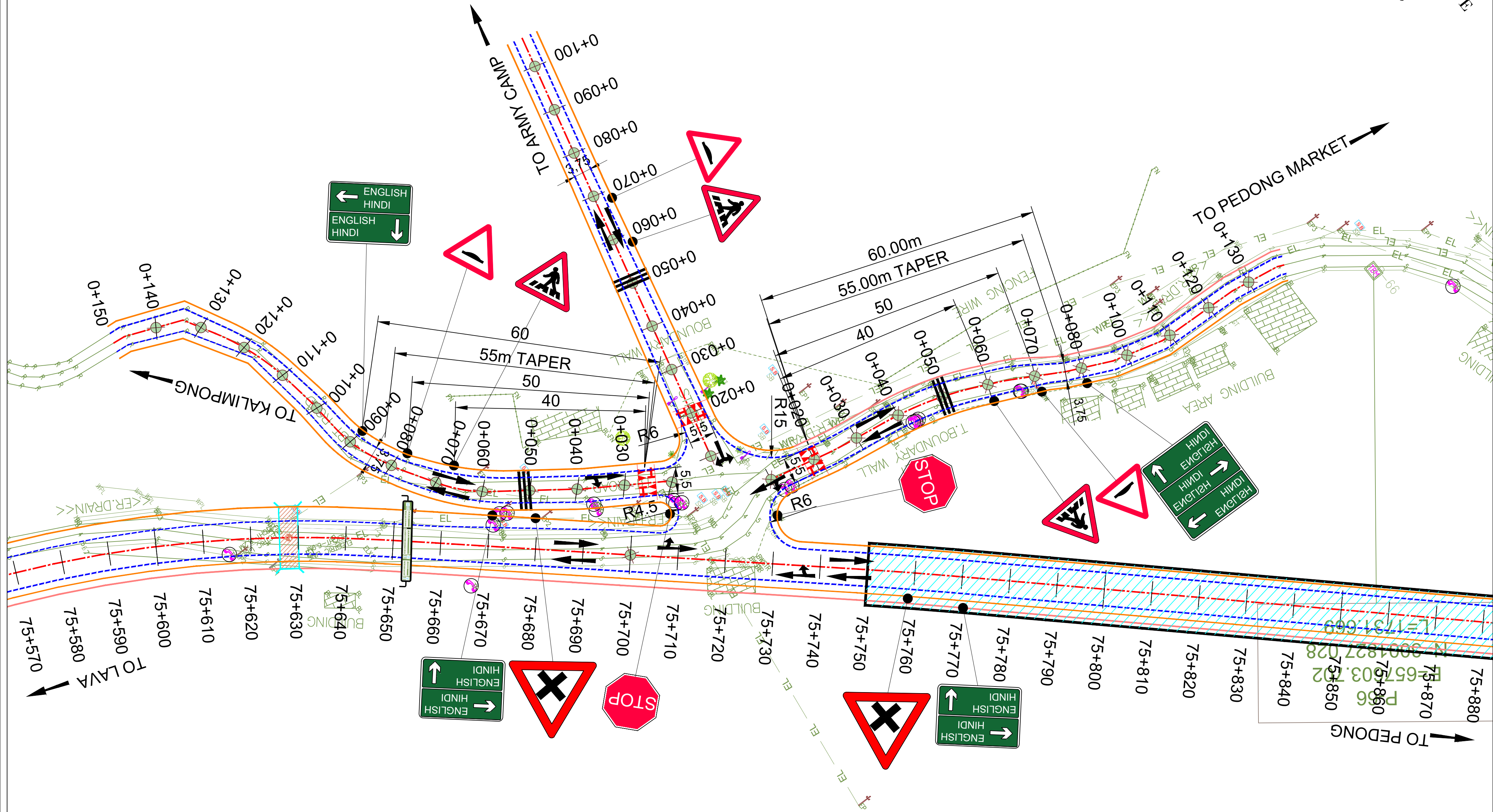
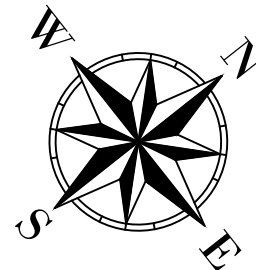
**Major Junction Detail Of
Lavamore (61+100) To
Pedong Bypass (79+520),
NH-717A, West Bengal (WB)**

MAJOR JUNCTION @ CH: 61+100



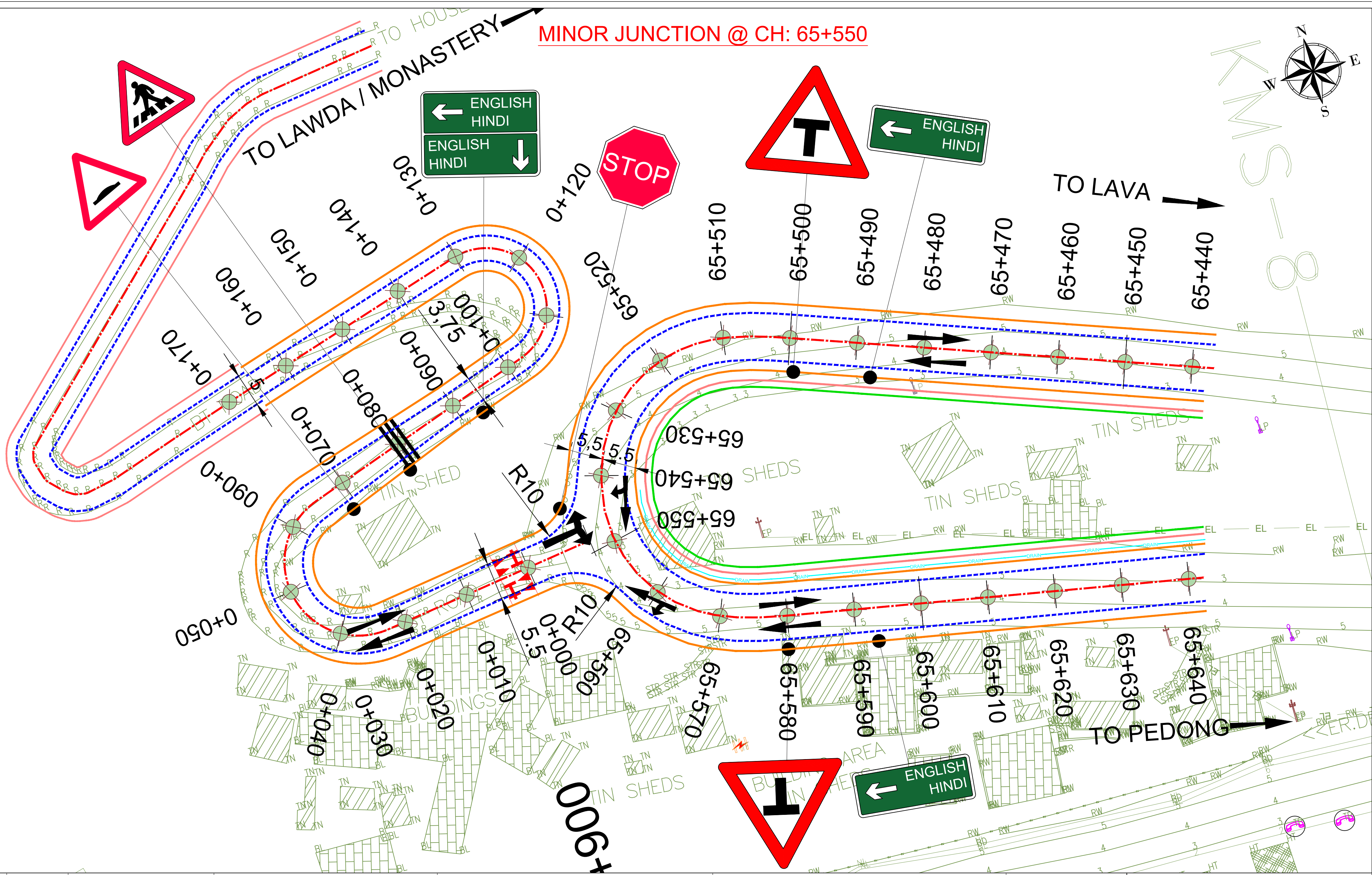
Rev. No.	Date	Description For Revision.	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal".	Design By : RK		Title: Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB) Major Junction @ CH: 61+100			
R0	30-08-2024	Draft Detailed Report				Drawn By : VR					
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH					
R2	15-10-2024	Revised as per the Observation						Approved By : VY		Dwg No: XPL/DSD/WB/KM18.6/JCN-01	
								Scale : NTS		Sheet: 01 OF 03	Date : Dec-2024

MAJOR JUNCTION @ CH: 75+700

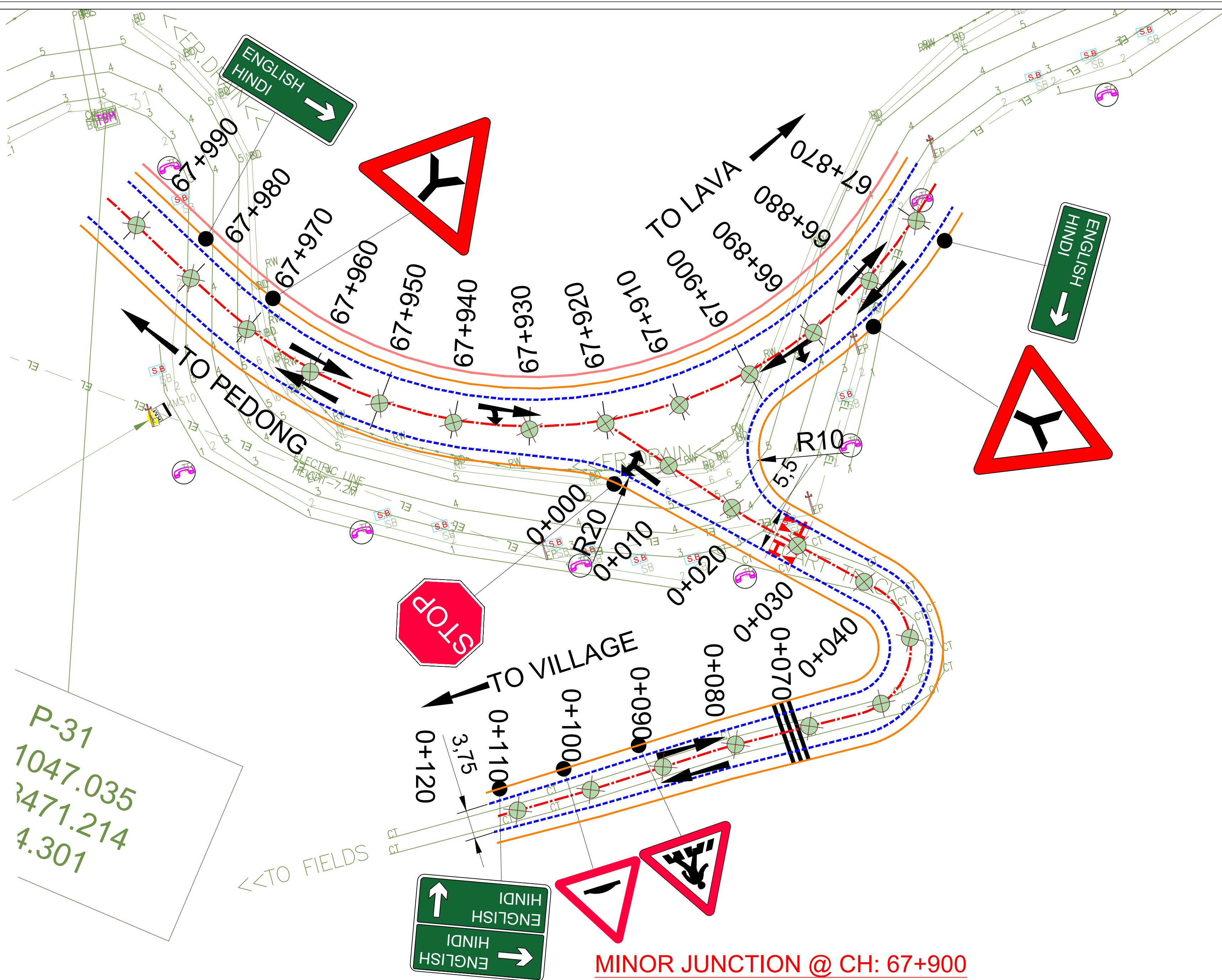
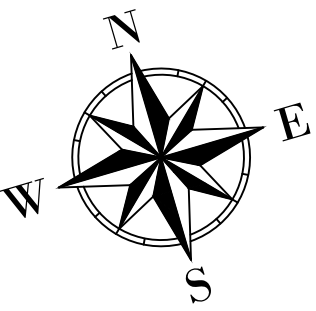


Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title:	
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal”.	Drawn By : VR	Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB) Major Junction @ CH: 75+700	
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
R2	15-10-2024	Revised as per the Observation						
						Approved By : VY	Dwg No: XPL/DSD/WB/KM18.6/JCN-03	
						Scale : NTS	Sheet: 03 OF 03	Date : Dec-2024

Minor Junction Detail Of
Lavamore (61+100) To
Pedong Bypass (79+520),
NH-717A, West Bengal (WB)



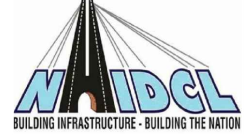
Rev. No.	Date	Description For Revision.	Client:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal”.	Design By : RK		Title: Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB) Minor Junction @ CH: 65+550				
R0	30-08-2024	Draft Detailed Report				Drawn By : VR						
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH						
R2	15-10-2024	Revised as per the Observation							Approved By : VY		Dwg No: XPL/DSD/WB/KM18.6/JCN-01	
									Scale : NTS		Sheet: 01 OF 08	Date : Dec-2024



Rev. No.	Date	Description For Revision.
R0	30-08-2024	Draft Detailed Report
R1	21-09-2024	Revised Draft Detailed Report
R2	15-10-2024	Revised as per the Observation

Client:

National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)
1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029



Design Consultant:

Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction
511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301



Project :

Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal".

Design By : RK
Drawn By : VR
Checked By : AH
Approved By : VY
Scale : NTS

Title:

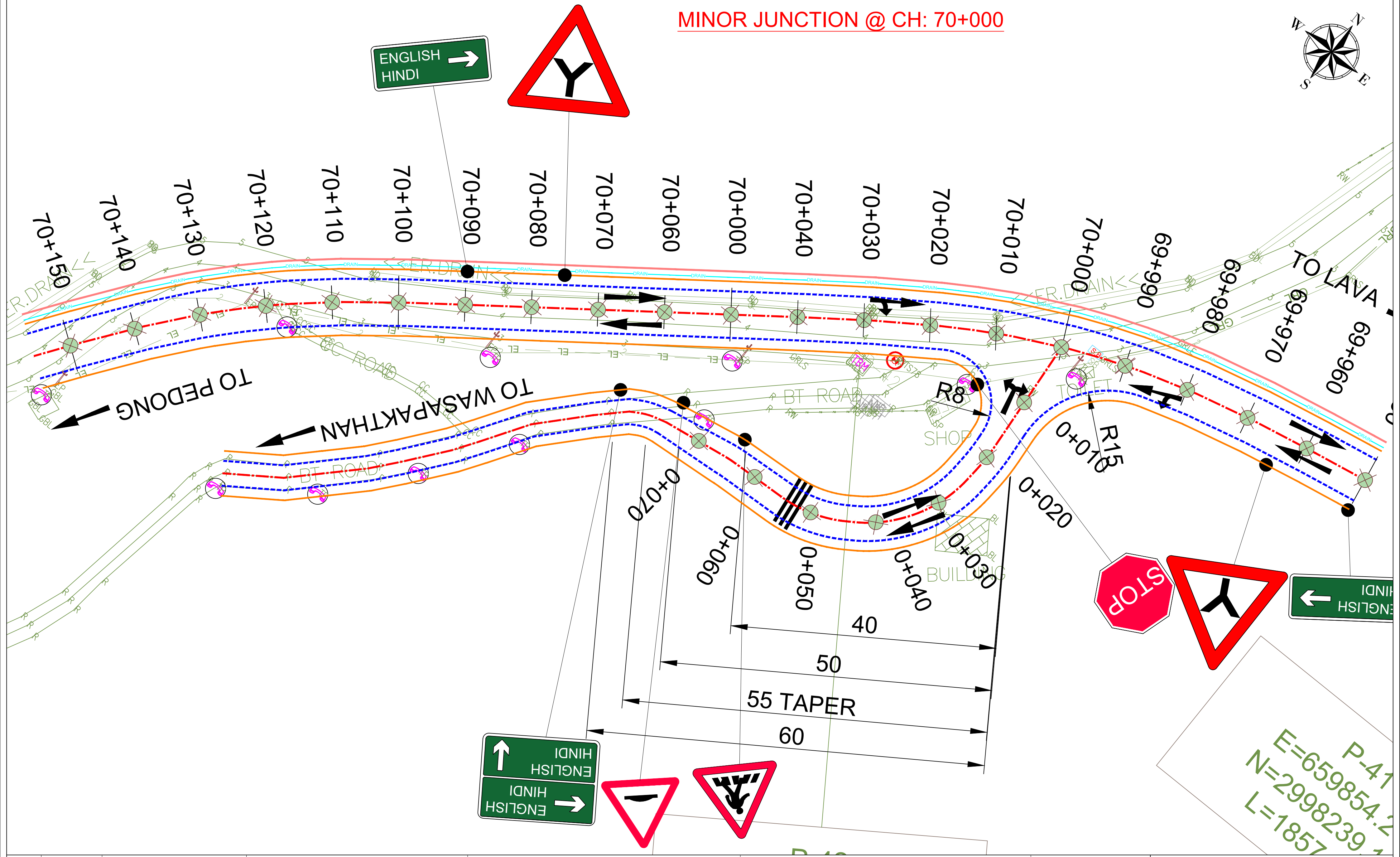
Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB)
Minor Junction @ CH: 67+900

Dwg No: XPL/DSD/WB/KM18.6/JCN-02

Sheet: 02 OF 08

Date : Dec-2024

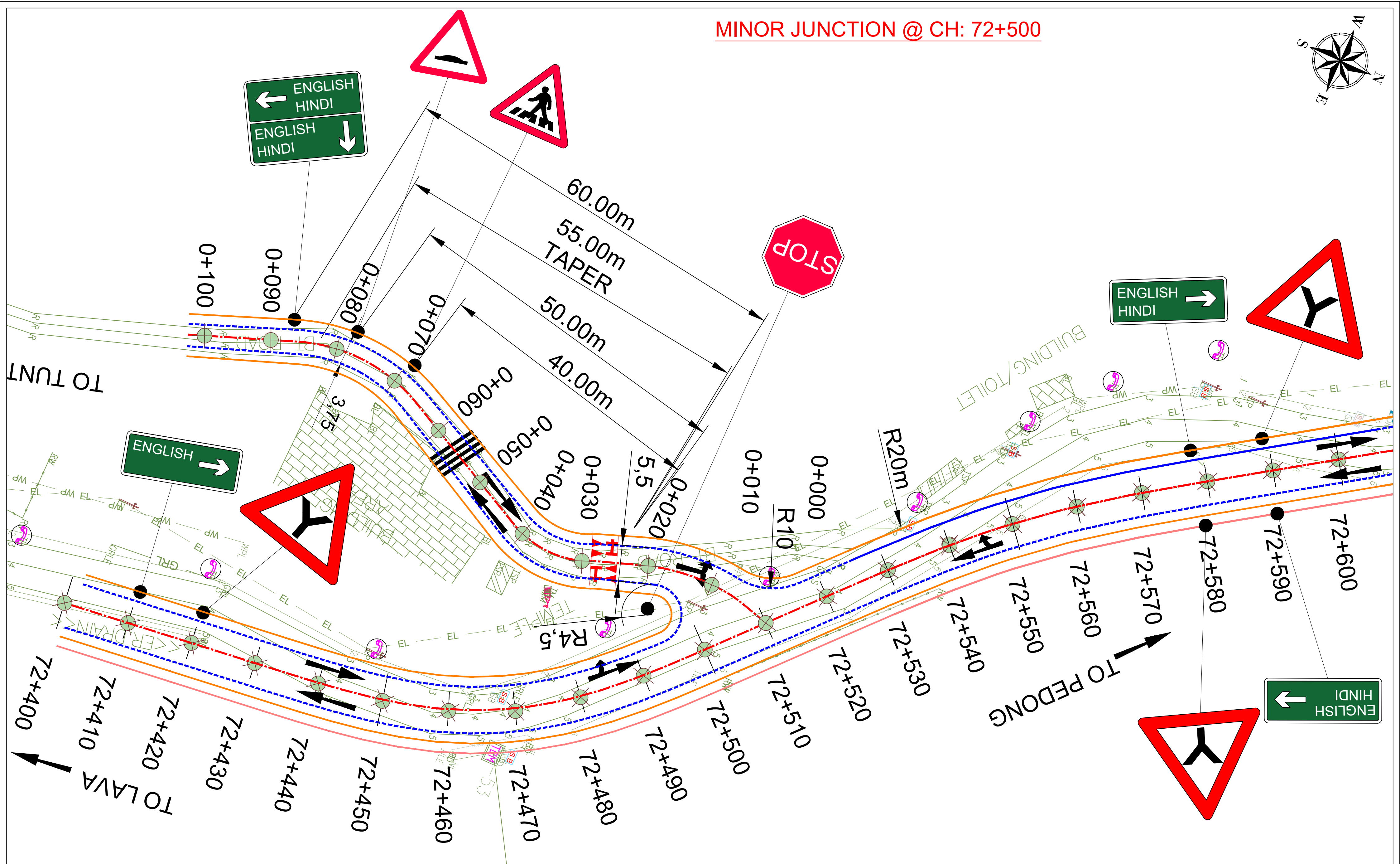
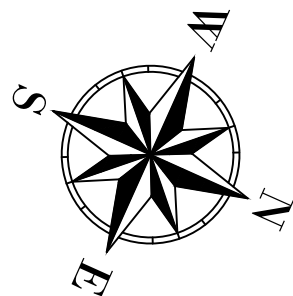
MINOR JUNCTION @ CH: 70+000



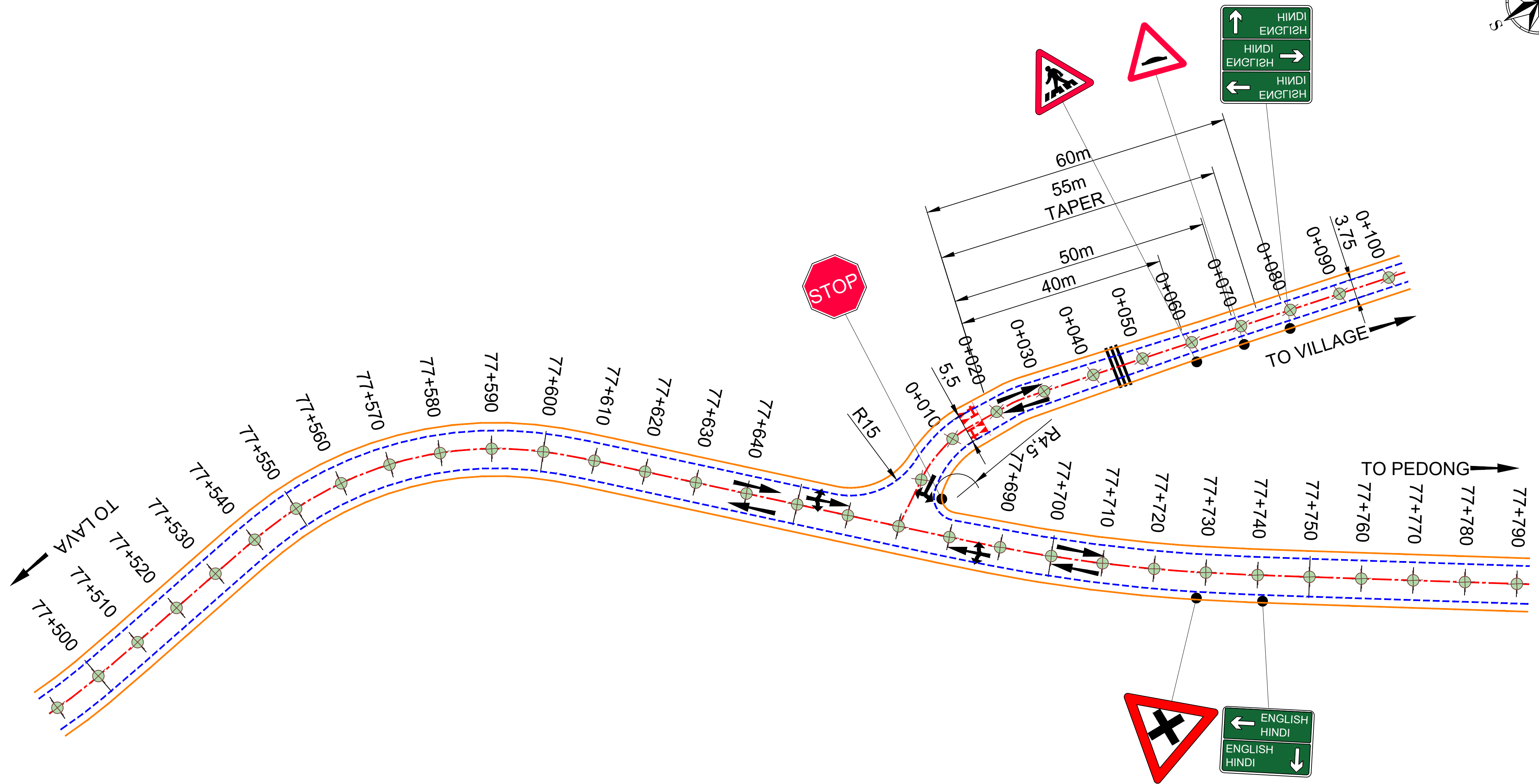
P-41
E=659854.2
N=2998239.1
L=1857

Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title:		
R0	30-08-2024	Draft Detailed Report	NHIDCL National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	XPLORER Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal".	Drawn By : VR	Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB) Minor Junction @ CH: 70+000		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH	Dwg No: XPL/DSD/WB/KM18.6/JCN-03		
R2	15-10-2024	Revised as per the Observation				Approved By : VY	Sheet: 03 OF 08		
						Scale : NTS	Date : Dec-2024		

MINOR JUNCTION @ CH: 72+500

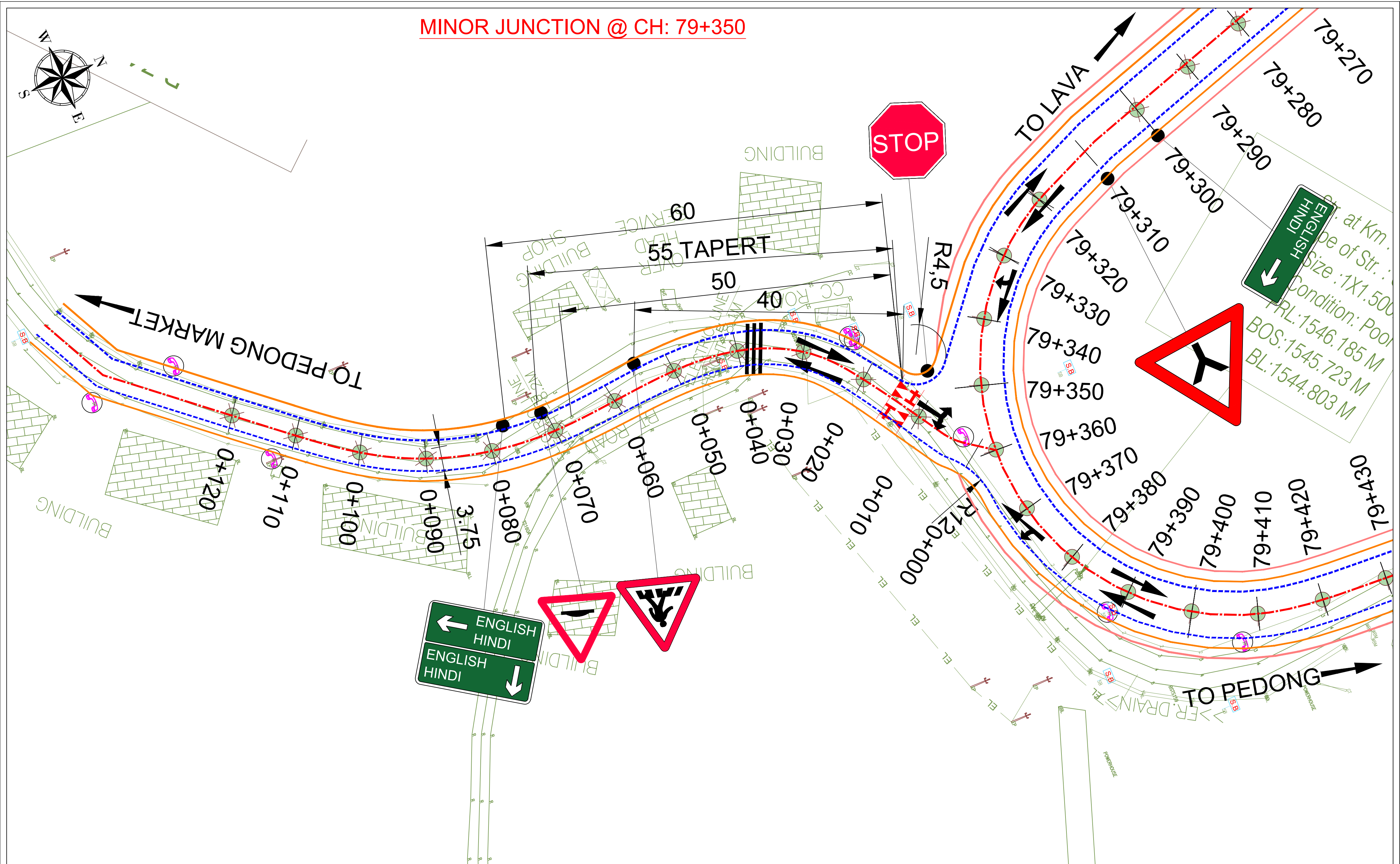


Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title:			
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal”.	Drawn By : VR	Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB) Minor Junction @ CH: 72+500			
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH				
R2	15-10-2024	Revised as per the Observation				Approved By : VY			Dwg No: XPL/DSD/WB/KM18.6/JCN-04	
								Scale : NTS	Sheet: 04 OF 08	Date : Dec-2024



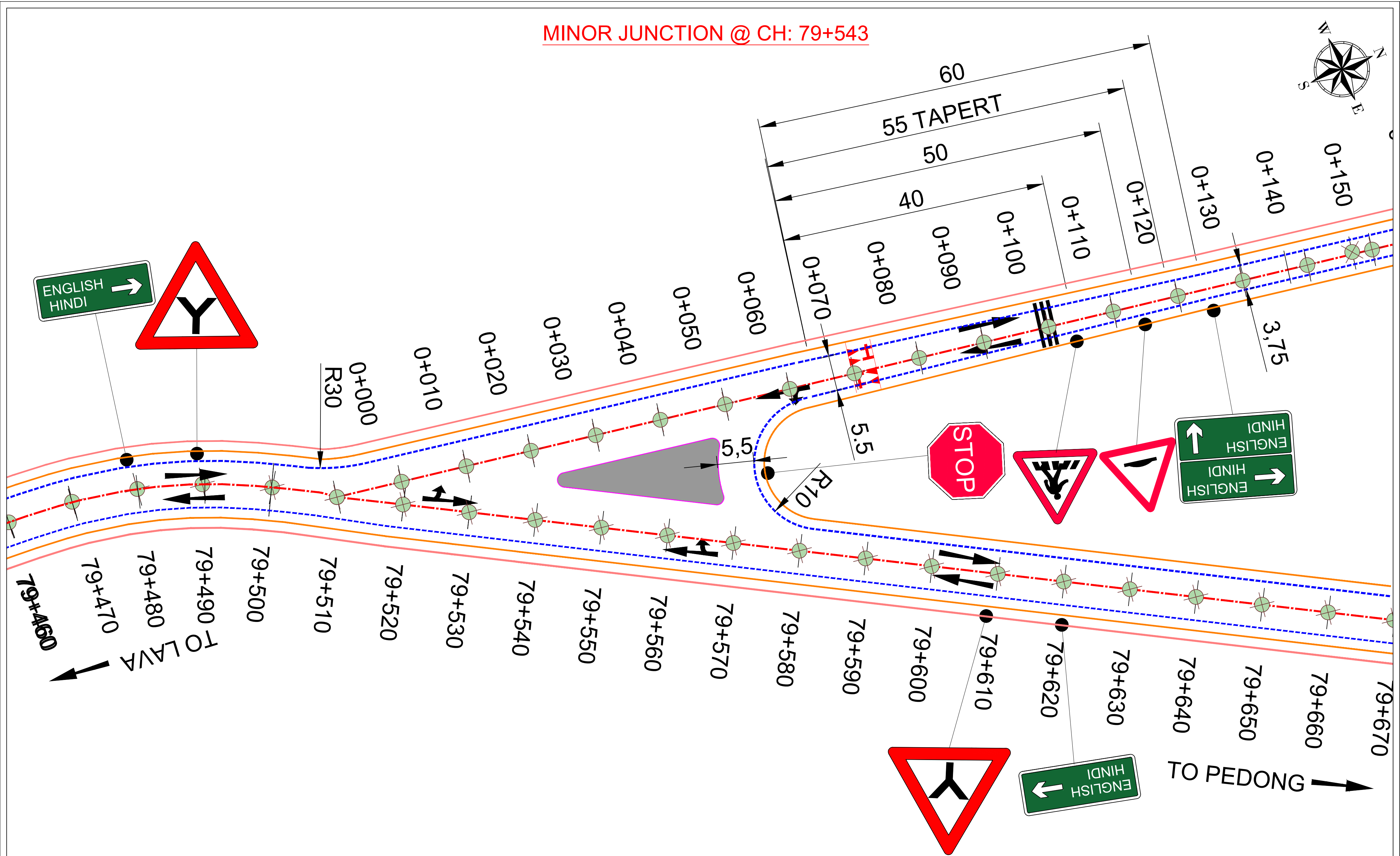
Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title:			
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal”.	Drawn By : VR	Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB) Minor Junction @ CH: 77+650			
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH				
R2	15-10-2024	Revised as per the Observation				Approved By : VY			Dwg No: XPL/DSD/WB/KM18.6/JCN-06	
								Scale : NTS	Sheet: 06 OF 08	Date : Dec-2024

MINOR JUNCTION @ CH: 79+350



Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title: Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB) Minor Junction @ CH: 79+350		
R0	30-08-2024	Draft Detailed Report	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal".	Drawn By : VR			
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH			
R2	15-10-2024	Revised as per the Observation				Approved By : VY	Dwg No: XPL/DSD/WB/KM18.6/JCN-08		
						Scale : NTS			
							Sheet: 08 OF 08	Date : Dec-2024	

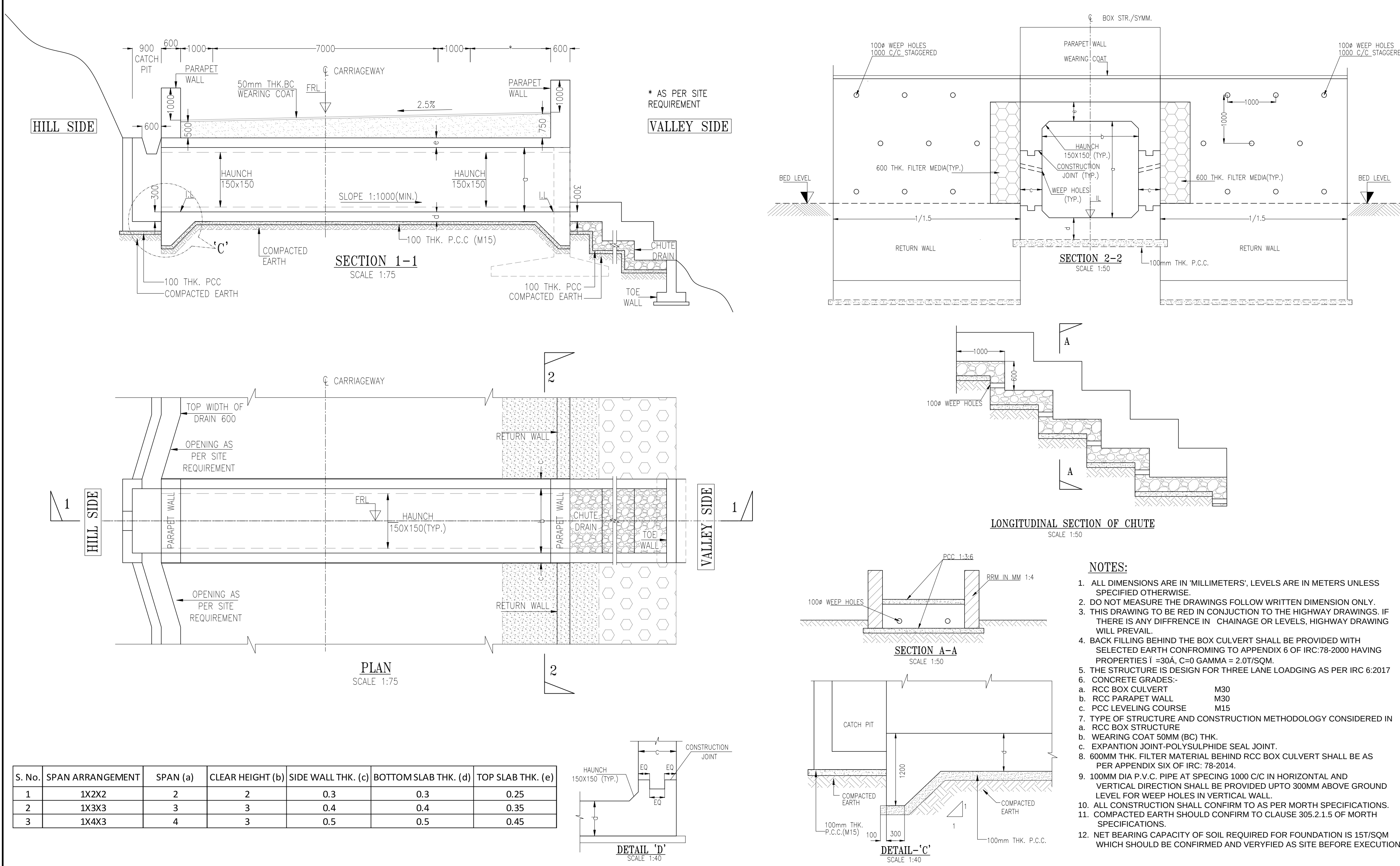
MINOR JUNCTION @ CH: 79+543



Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title: Junction Detail Of Lavamore To Pedong Bypass, West Bengal (WB) Minor Junction @ CH: 79+543		
R0	30-08-2024	Draft Detailed Report	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of West Bengal”.	Drawn By : VR			
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH			
R2	15-10-2024	Revised as per the Observation				Approved By : VY	Dwg No: XPL/DSD/WB/KM18.6/JCN-10		
						Scale : NTS			
							Sheet: 10 OF 08	Date : Dec-2024	

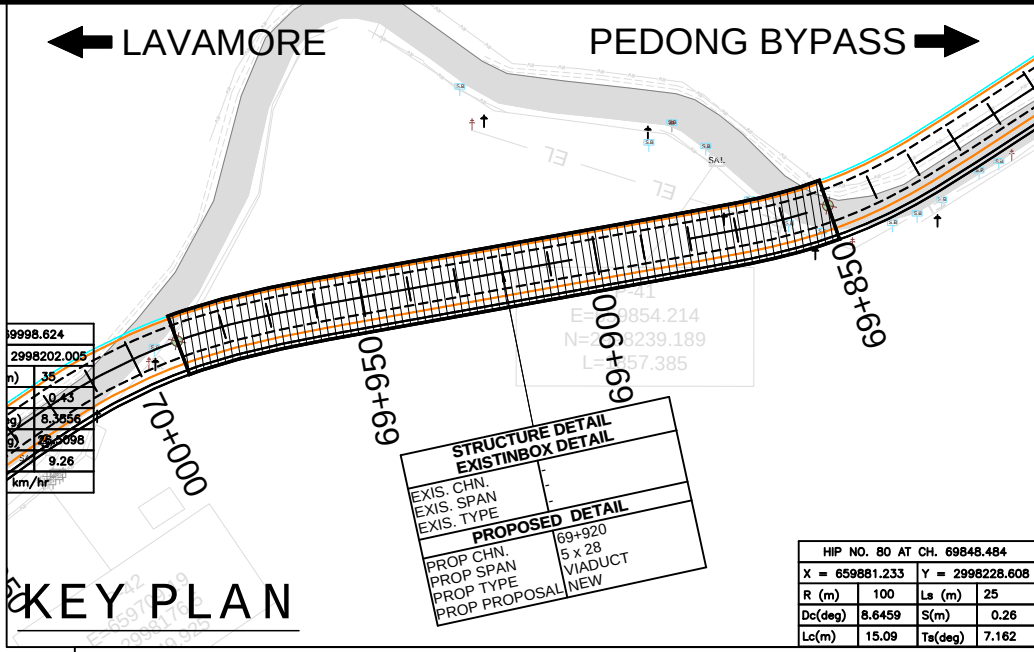
GENERAL ARRANGEMENT DRAWINGS

CULVERT DRAWINGS



Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	XPLORER CONSULTANCY SERVICES PVT. LTD. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, iithum, plot-A40 Sector-62, Noida Uttar Pradesh - 201301	NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORP. LTD. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi - 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Drawn By : MK	Box Culvert With Catchpit
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS	
R2-	15-10-2024- REVISED AS PER OBSERVATION				Approved By : VY	Dwg No: XPL/DSD/WB/KM18.6/BC-01
					Scale : As Shown	Sheet: 1 OF 1
						Date : Dec-2024
						A2

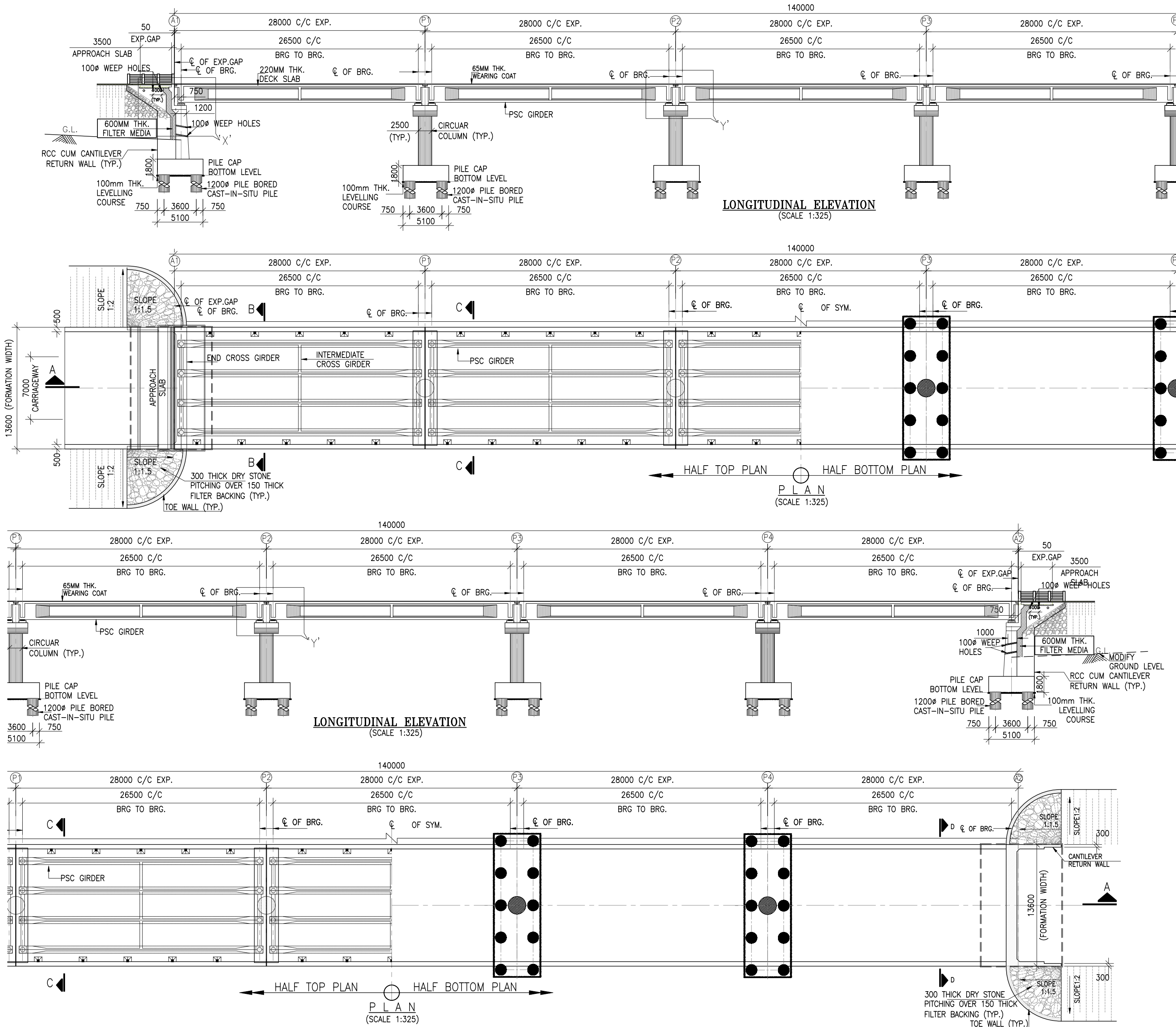
MAJOR BRIDGE



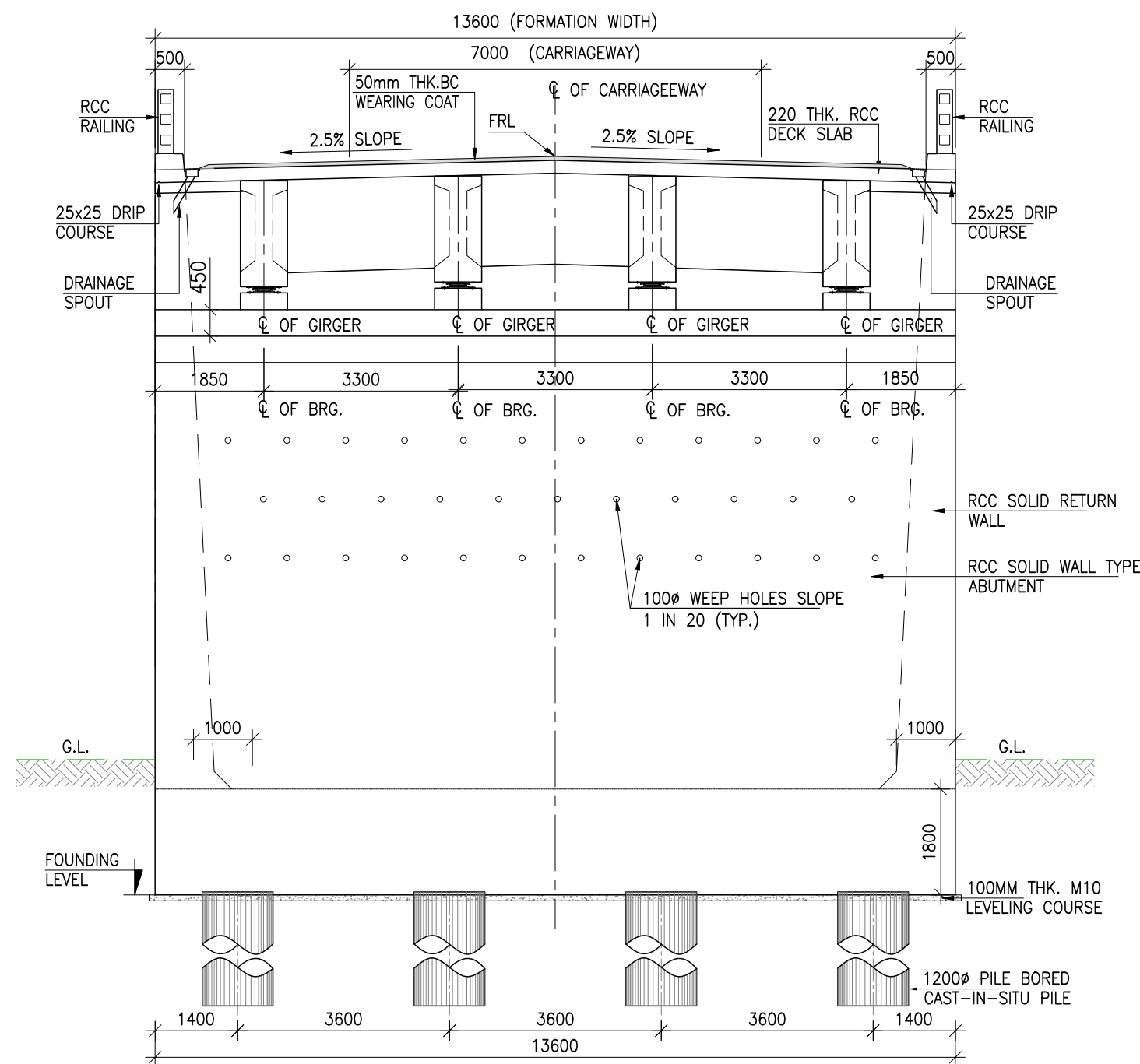
- NOTES:-**
- ALL DIMENSION ARE IN MILLIMETERS, LEVELS IN METERS AND CHAINAGES IN KILOMETERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSION TO BE FOLLOWED.
 - CONCRETE SHALL BE DESIGN MIX AND SHALL HAVE MINIMUM 28 DAYS CHARACTERISTIC STRENGTH ON 150mm CUBES FOR ALL ELEMENTS OF STRUCTURES AS INDICATED BELOW:-
 - RCC CRASH BARRIER M40
 - RCC CAST-IN-SITU DECK SLAB (SUPERSTRUCTURE) M40
 - PSC GIRDER (SUPERSTRUCTURE)..... M45
 - RCC CAST-IN-SITU CROSS GIRDER (SUPERSTRUCTURE)..... M35
 - SUBSTRUCTURE & FOUNDATION M35
 - APPROACH SLAB M30
 - PCC LEVELING (UNDER FOUNDATION) M10
 - PCC LEVELING (UNDER APPROACH SLAB) M15
 - PROPOSED STRUCTURE IS DESIGNED IN ACCORDANCE WITH PROVISION OF CLAUSE 204.3 AND 204.5 OF IRC:6-2017 FOR MOST SEVERE LOADING OF:
 - ONE LANE OF IRC CLASS 70R LOADING AND ONE LANE OF IRC CLASS A OR THREE LANE OF IRC CLASS A LOADING WHEN FOOTPATH IS IN POSITION.
 - ONE LANE OF IRC CLASS 70R LOADING AND ONE LANE OF IRC CLASS-A LOADING OR THREE LANE OF IRC CLASS A OR TWO LANE OF IRC CLASS 70R LOADING & SV LOADING WHEN FOOTPATH IS REMOVED.
 - WEARING COAT 65MM THK.
 - CLEAR COVER TO OUTERMOST STEEL SHALL BE AS BELOW:-
 - SUPERSTRUCTURE (CAST IN-SITU) 40mm
 - SUB-STRUCTURE 50mm
 - FOUNDATION 75mm
 - HYSD STEEL - FE:500D (CONFIRM TO IS:1786)
 - ALL SPACE EXCAVATED AND NOT OCCUPIED BY THE FOUNDATION & OTHER PERMANENT WORK SHALL BE FILLED WITH EARTH UP TO SURFACE OF SURROUNDING GROUND IN ACCORDANCE WITH SECTION 300 OF "MORTH" SPECIFICATION. IN CASE OF EXCAVATION IN ROCK, THE ANNULAR SPACE AROUND FOUNDATION SHALL BE FILLED WITH M15 PCC UP TO THE TOP OF ROCK.
 - STRIP SEAL TYPE EXPANSION JOINTS SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS FOR ROAD AND BRIDGE WORKS.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT APPROVED HIGHWAY DRAWINGS FOR STRUCTURE ORIENTATION, SKEW FRL & CAMBER/SUPER ELEVATION, ETC IF ANY DISCREPANCY FOUND IT SHALL BE BROUGHT TO THE NOTICE OF DESIGN CONSULTANT/PROOF CHECKING CONSULTANT.
 - PROPOSED CHAINAGE / FRL SHALL BE CHECKED AND CONFIRMED AS PER APPROVED PLAN & PROFILE.
 - THE PROJECT ROAD FALLS WITHIN SEISMIC ZONE- IV
 - EXPOSURE CONDITION IS MODERATE.
 - NET SBC CONSIDERED IN DESIGN IS 20T/M² & SAME SHALL BE ASCERTAINED PRIOR TO RESTING OF FOUNDATION.
 - TYPE OF FOUNDATION & STRUCTURE IS TENTATIVE, IT MAY BE CHANGE, DURING DETAIL DESIGN. THIS GAD ONLY REFER FOR SPAN ARRANGEMENT.
 - BEARING TYPE: POT PTFE.
 - DRAINAGE SPOUT/PIPE SHALL BE PROVIDED IN DECK SLAB AS PER MORTH 2014
 - LEVELS SHOWN IN RESPECTIVE DRAWINGS MUST BE ASCERTAINED/VERIFIED AT SITE. IN CASE OF ANY DEVIATION, DESIGN AND DRAWINGS ARE REQUIRED TO BE REVISED FOR FURTHER REVIEW BEFORE EXECUTION OF WORK.
 - WEEP HOLES OF 100MM DIA SHALL BE PLACED AT 1.0M C/C HORIZONTALLY AND 1.0M C/C VERTICALLY FROM LWL TO H.F.L IN RETAINING WALLS AND ABUTMENT FOLLOWED IRC 78:2014 AND MORTH SPECIFICATION.
 - BACK FILLING SHALL BE CARRIED OUT WITH SOIL PROPERTIES, C=0 % & $\phi > 30^\circ$ THE SOIL SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT TO 98% PROCTOR DENSITY, SHALL BE CONFIRMED AS PER C:710.1.4 OF IRC 78:2014 AND MORTH SPECIFICATIONS.

LEGEND:-

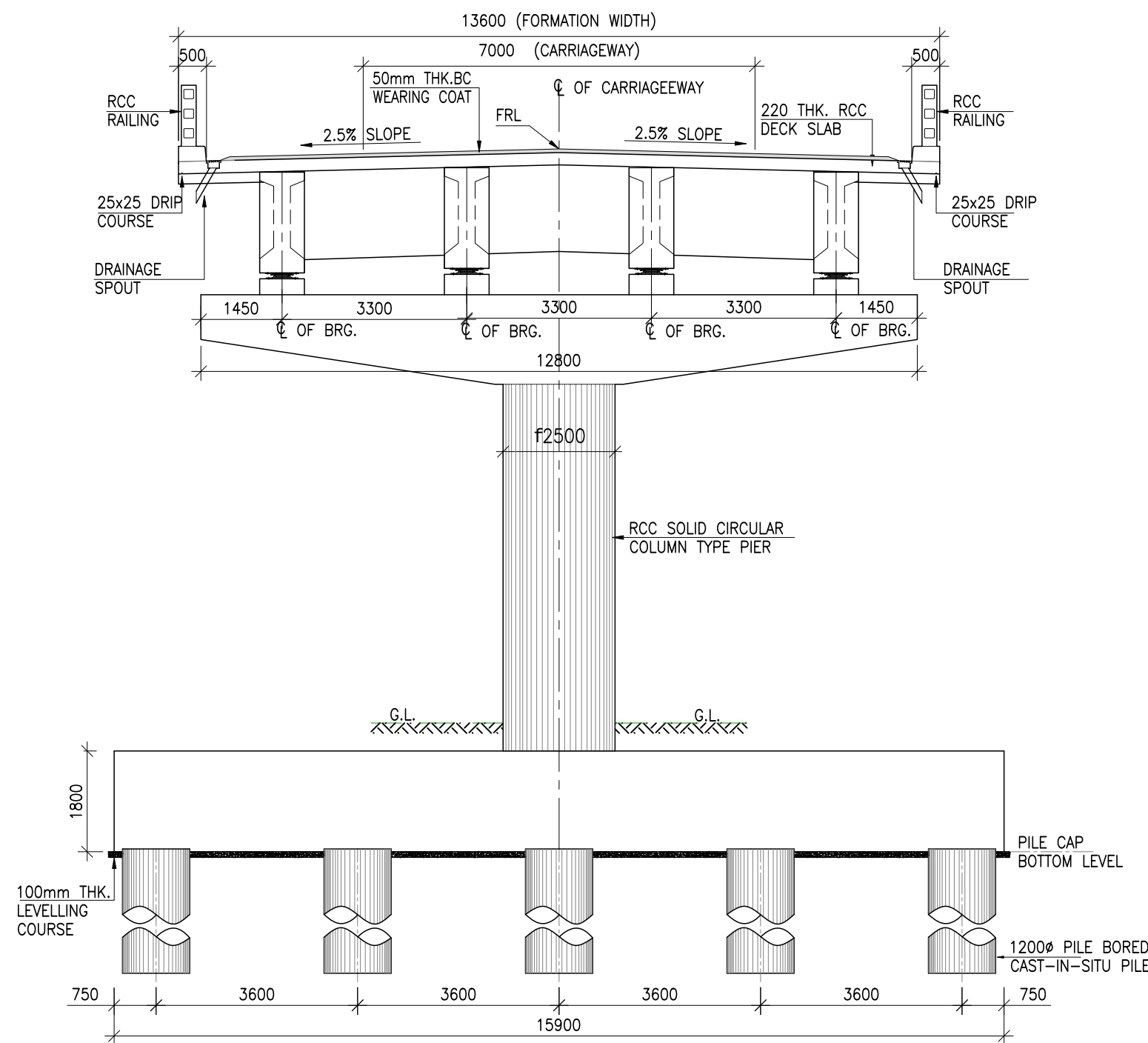
FDN. LVL - FOUNDING LEVEL
FRL - FINISHED ROAD LEVEL
CL - CENTER LINE
E.J - EXPANSION GAP
BRG - BEARING



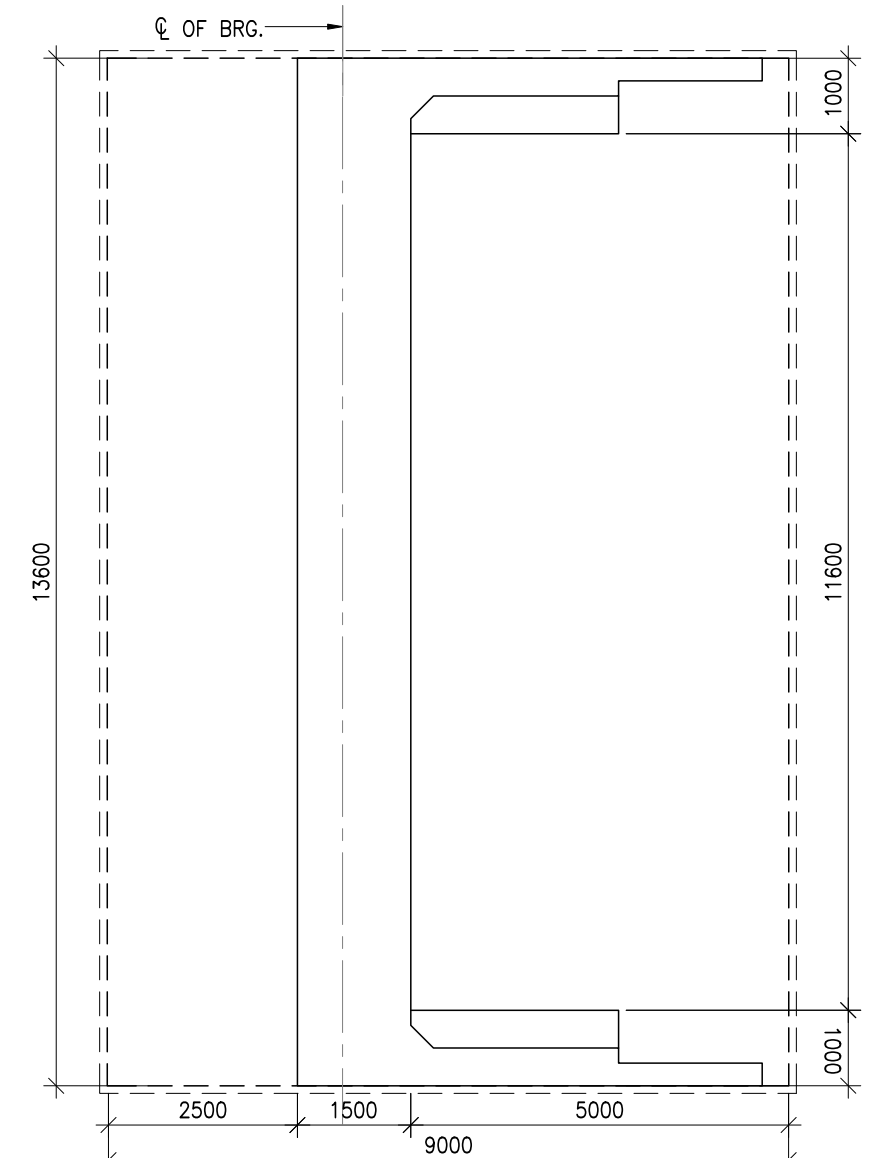
Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh i 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi i 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of fWidening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Drawn By : MK	(VIADUCT AT CH. 69+920 GAD) (SPAN 5X28)
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS	
R2-	15-10-2024- REVISED AS PER OBSERVATIONVATION				Approved By : VY	
					Scale : As Shown	
					Sheet: 1 OF 2	Date : Dec-2024
						A2



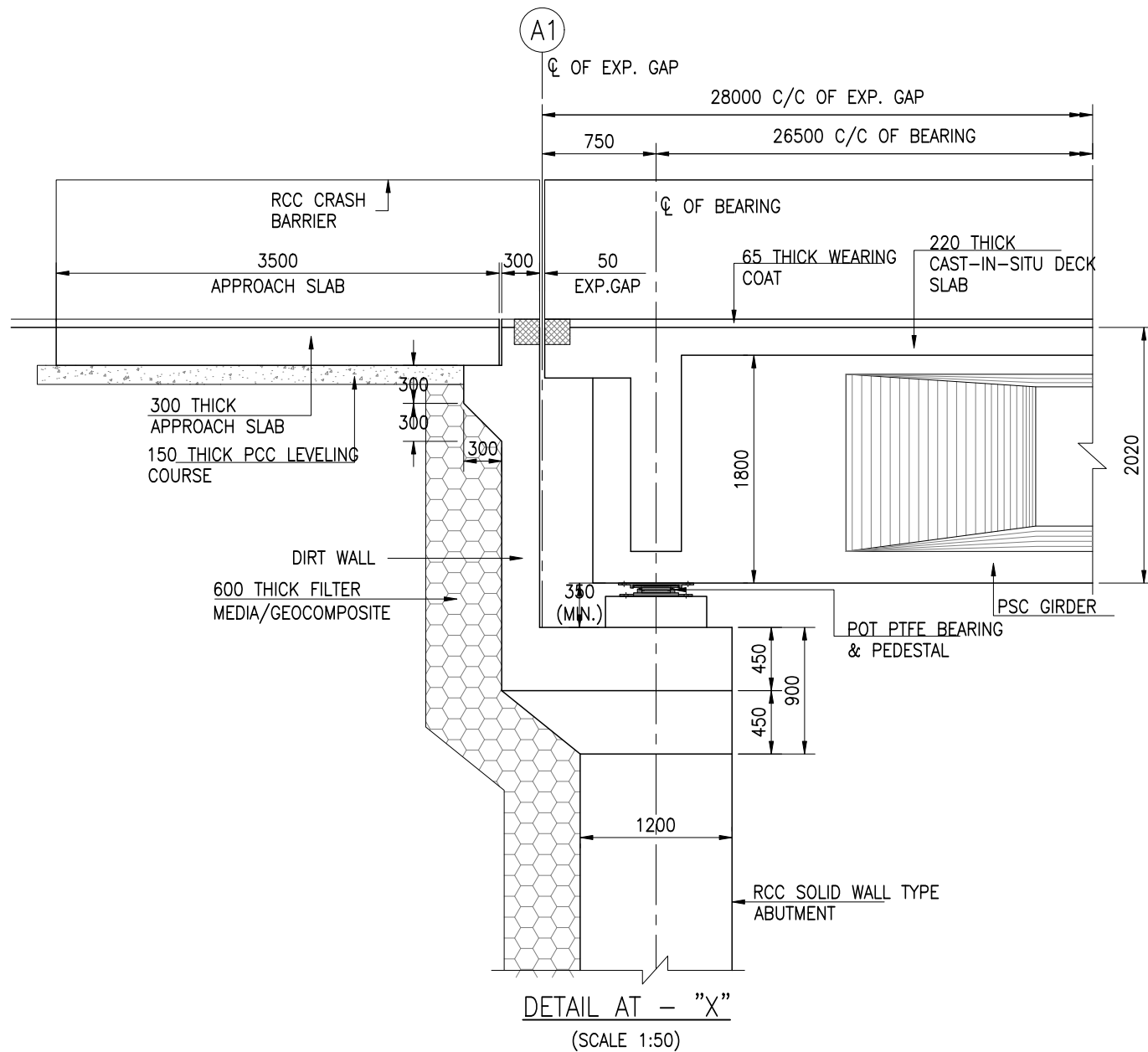
SECTION AT B-B
(SCALE 1:100)



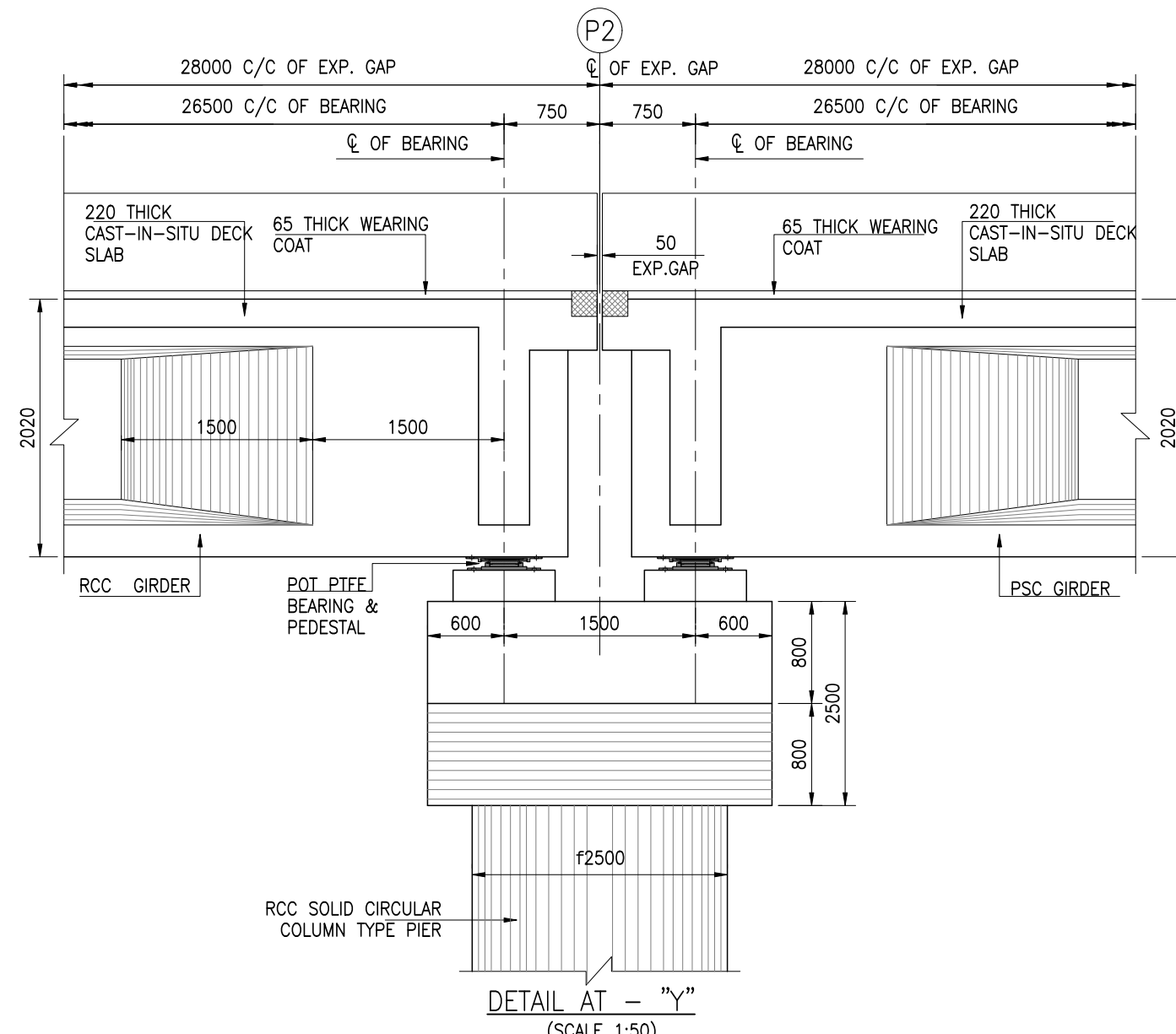
SECTION AT C-C
(SCALE 1:100)



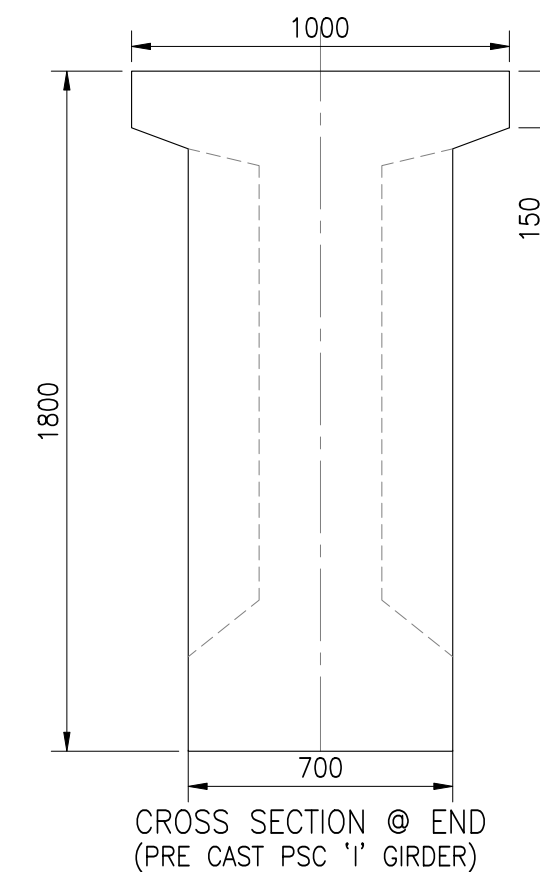
SECTION AT D-D OF RETURN WALL
(SCALE 1:100)



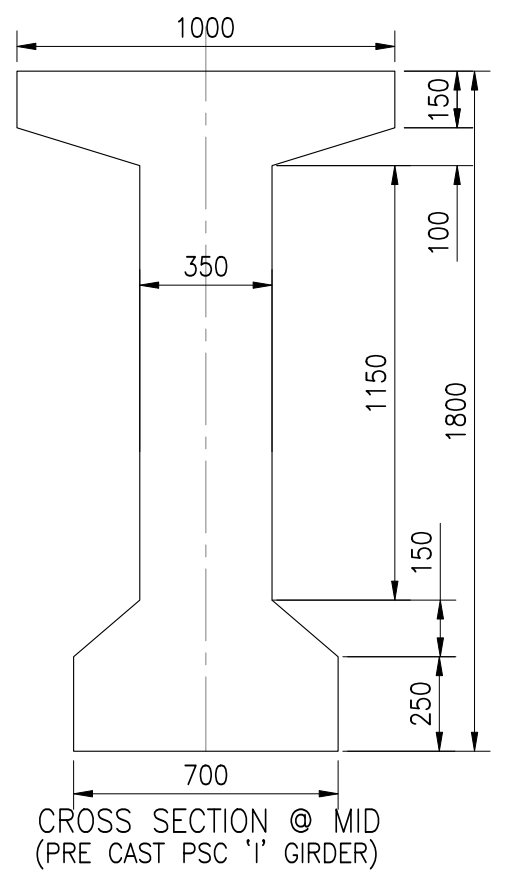
DETAIL AT - "X"
(SCALE 1:50)



DETAIL AT - "Y"
(SCALE 1:50)



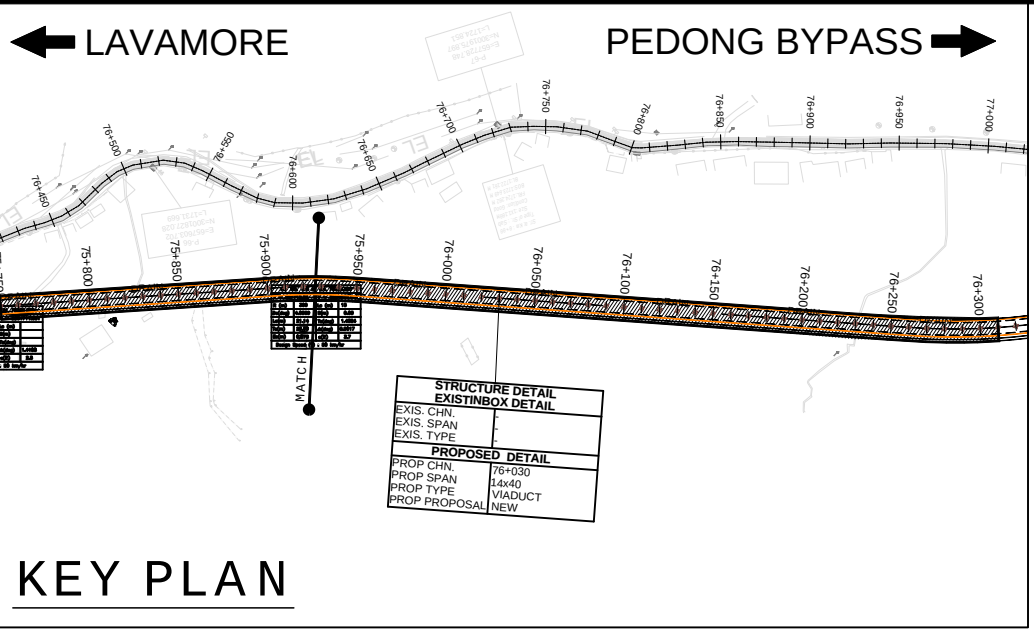
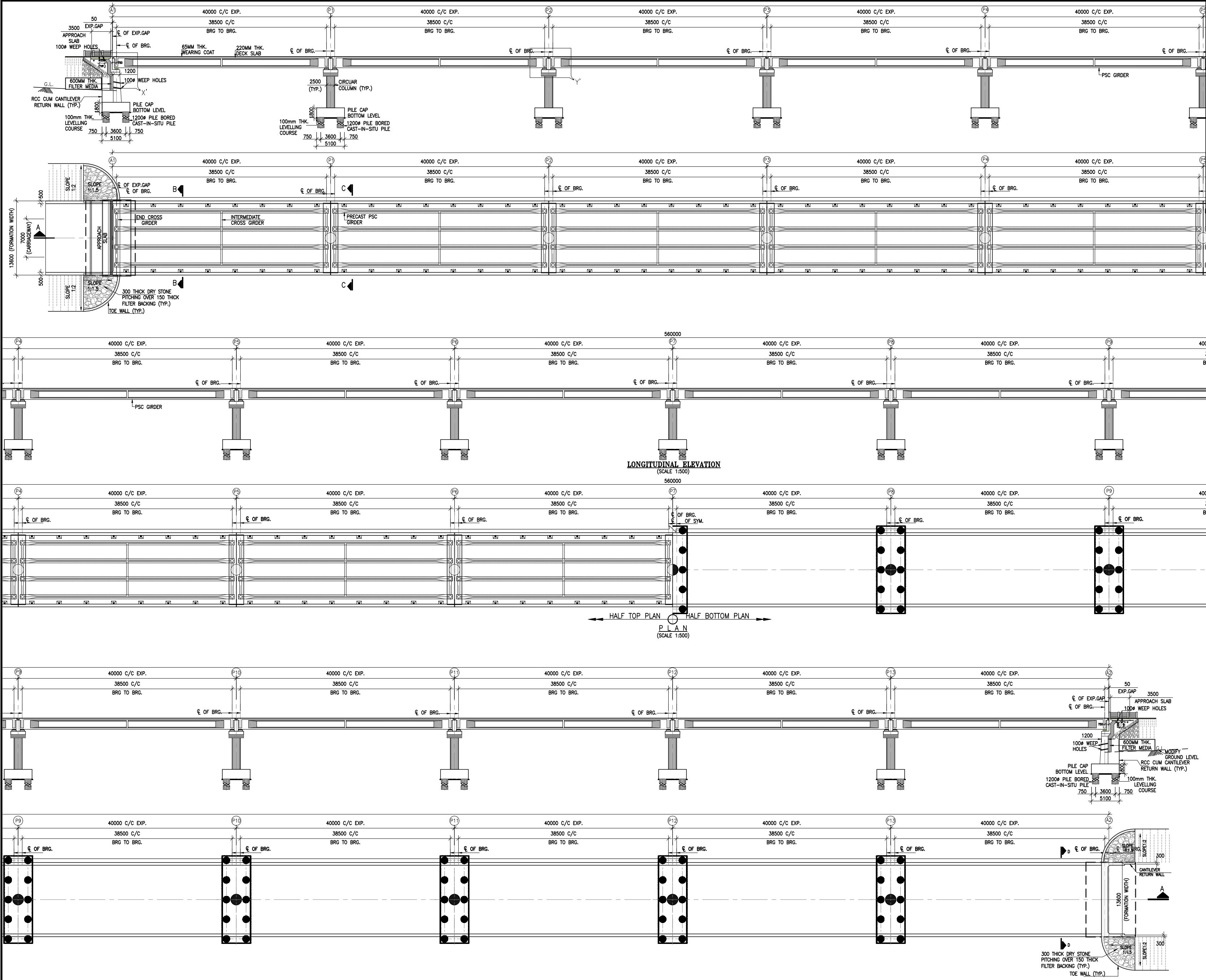
CROSS SECTION @ END
(PRE CAST PSC 'I' GIRDER)



CROSS SECTION @ MID
(PRE CAST PSC 'I' GIRDER)

TYPICAL X-SECTION OF GIRDER
(SCALE 1:20)

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title: (VIADUCT AT CH. 69+920 GAD) (SPAN 5X28)			
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, iihum, plot-A40 Sector-62, Noida Uttar Pradesh 201301 	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi 110029 	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Drawn By : MK				
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS				
R2-	15-10-2024- REVISED AS PER OBSERVATION				Approved By : VY				
					Scale : As Shown	Sheet: 2 OF 2	Date : Dec-2024	A2	

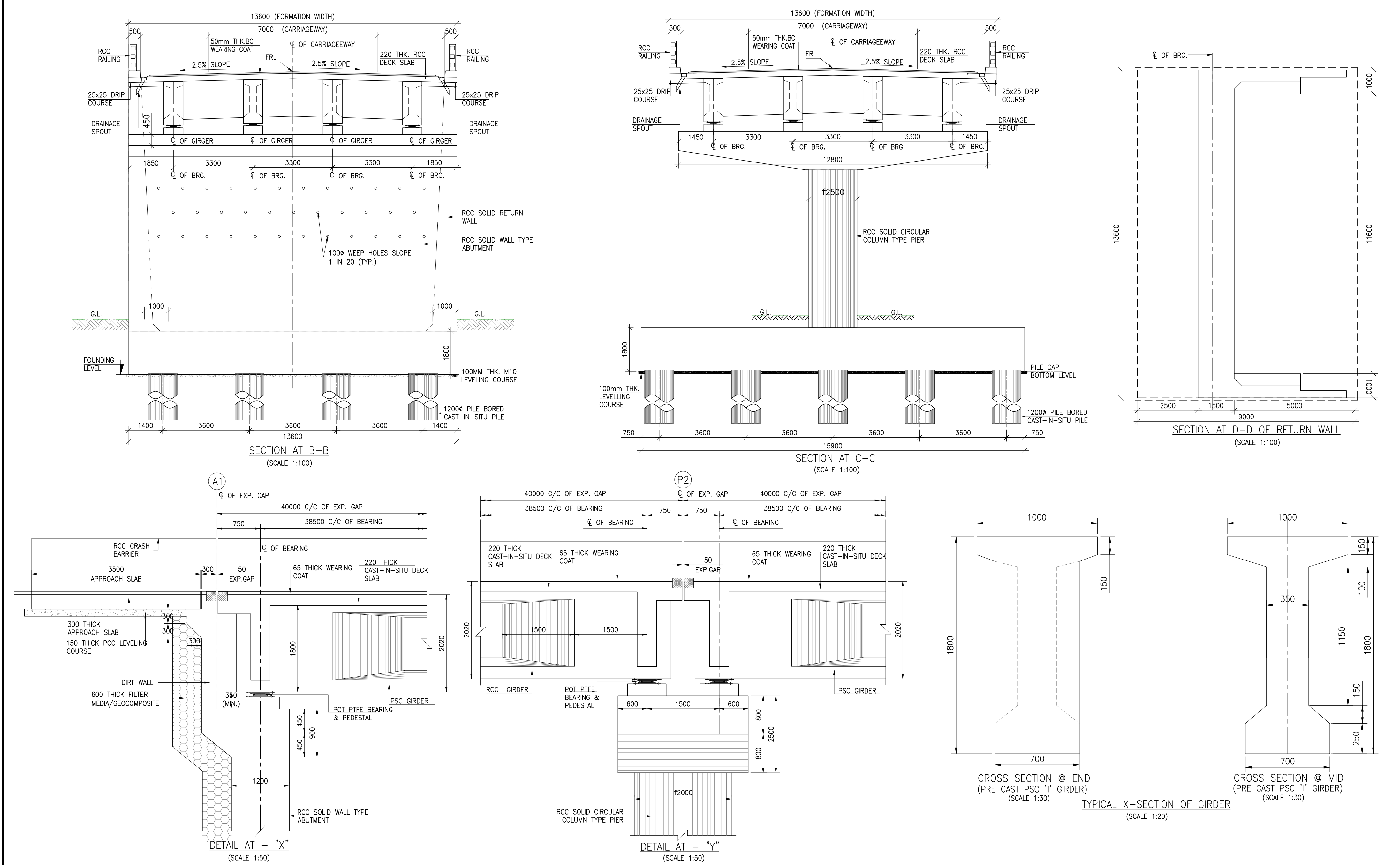


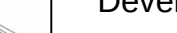
- NOTES:-**
- ALL DIMENSION ARE IN MILLIMETERS, LEVELS IN METERS AND CHAINAGES IN KILOMETERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSION TO BE FOLLOWED.
 - CONCRETE SHALL BE DESIGN MIX AND SHALL HAVE MINIMUM 28 DAYS CHARACTERISTIC STRENGTH ON 150mm CUBES FOR ALL ELEMENTS OF STRUCTURES AS INDICATED BELOW:-
 - RCC CRASH BARRIER M40
 - RCC CAST-IN-SITU DECK SLAB (SUPERSTRUCTURE) M40
 - PSC GIRDER (SUPERSTRUCTURE)..... M45
 - RCC CAST-IN-SITU CROSS GIRDER (SUPERSTRUCTURE).....M35
 - SUBSTRUCTURE & FOUNDATION M35
 - APPROACH SLAB M30
 - PCC LEVELING (UNDER FOUNDATION) M10
 - PCC LEVELING (UNDER APPROACH SLAB) M15
 - PROPOSED STRUCTURE IS DESIGNED IN ACCORDANCE WITH PROVISION OF CLAUSE 204.3 AND 204.5 OF IRC:6-2017 FOR MOST SEVERE LOADING OF:
 - ONE LANE OF IRC CLASS 70R LOADING AND ONE LANE OF IRC CLASS A OR THREE LANE OF IRC CLASS A LOADING WHEN FOOTPATH IS IN POSITION.
 - ONE LANE OF IRC CLASS 70R LOADING AND ONE LANE OF IRC CLASS-A LOADING OR THREE LANE OF IRC CLASS A OR TWO LANE OF IRC CLASS 70R LOADING & SV LOADING WHEN FOOTPATH IS REMOVED.
 - WEARING COAT 65MM THK.
 - CLEAR COVER TO OUTERMOST STEEL SHALL BE AS BELOW:-
 - SUPERSTRUCTURE (CAST IN-SITU) 40mm
 - SUB-STRUCTURE 50mm
 - FOUNDATION 75mm
 - HYSD STEEL – FE:500D (CONFIRM TO IS:1786)
 - ALL SPACE EXCAVATED AND NOT OCCUPIED BY THE FOUNDATION & OTHER PERMANENT WORK SHALL BE REFILLED WITH EARTH UP TO SURFACE OF SURROUNDING GROUND IN ACCORDANCE WITH SECTION 300 OF "MORTH" SPECIFICATION. IN CASE OF EXCAVATION IN ROCK,THE ANNULAR SPACE AROUND FOUNDATION SHALL BE FILLED WITH M15 PCC UP TO THE TOP OF ROCK.
 - STRIP SEAL TYPE EXPANSION JOINTS SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS FOR ROAD AND BRIDGE WORKS.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT APPROVED HIGHWAY DRAWINGS FOR STRUCTURE ORIENTATION, SKEW FRL & CAMBER/SUPER ELEVATION,ETC IF ANY DISCREPANCY FOUND IT SHALL BE BROUGHT TO THE NOTICE OF DESIGN CONSULTANT/PROOF CHECKING CONSULTANT.
 - PROPOSED CHAINAGE / FRL SHALL BE CHECKED AND CONFIRMED AS PER APPROVED PLAN & PROFILE.
 - THE PROJECT ROAD FALLS WITHIN SEISMIC ZONE- IV
 - EXPOSURE CONDITION IS MODERATE.
 - NET SBC CONSIDERED IN DESIGN IS 20T/M² & SAME SHALL BE ASCERTAINED PRIOR TO RESTING OF FOUNDATION.
 - TYPE OF FOUNDATION & STRUCTURE IS TENTATIVE, IT MAY BE CHANGE, DURING DETAIL DESIGN. THIS GAD ONLY REFER FOR SPAN ARRANGEMENT.
 - BEARING TYPE: POT PTFE.
 - DRAINAGE SPOUT/PIPE SHALL BE PROVIDED IN DECK SLAB AS PER MORTH 2014
 - LEVELS SHOWN IN RESPECTIVE DRAWINGS MUST BE ACERTAINED/VERIFIED AT SITE. IN CASE OF ANY DEVIATION, DESIGN AND DRAWINGS ARE REQUIRED TO BE REVISED FOR FURTHER REVIEW BEFORE EXECUTION OF WORK.
 - WEEP HOLES OF 100MM DIA SHALL BE PLACED AT 1.0M C/C HORIZONTALLY AND 1.0M C/C VERTICALLY FROM LWL TO H.F.L IN RETAINING WALLS AND ABUTMENT FOLLOWED IRC 78:2014 AND MORTH SPECIFICATION.
 - BACK FILLING SHALL BE CARRIED OUT WITH SOIL PROPERTIES, C=0 % & $\phi > 30^\circ$ THE SOIL SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT TO 98% PROCTOR DENSITY, SHALL BE CONFIRMED AS PER C:710.1.4 OF IRC 78:2014 AND MORTH SPECIFICATIONS.

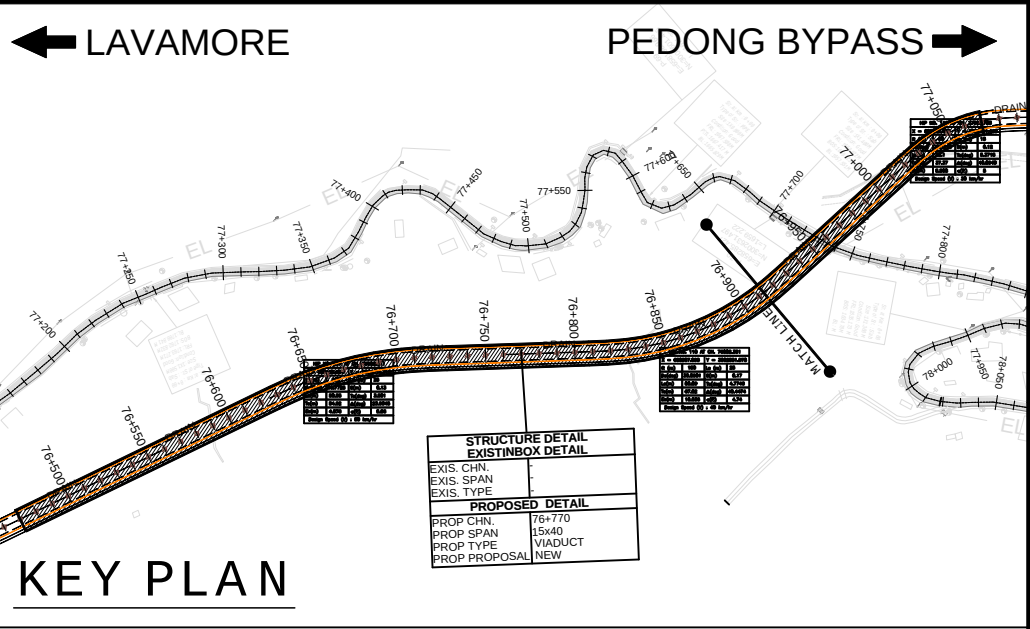
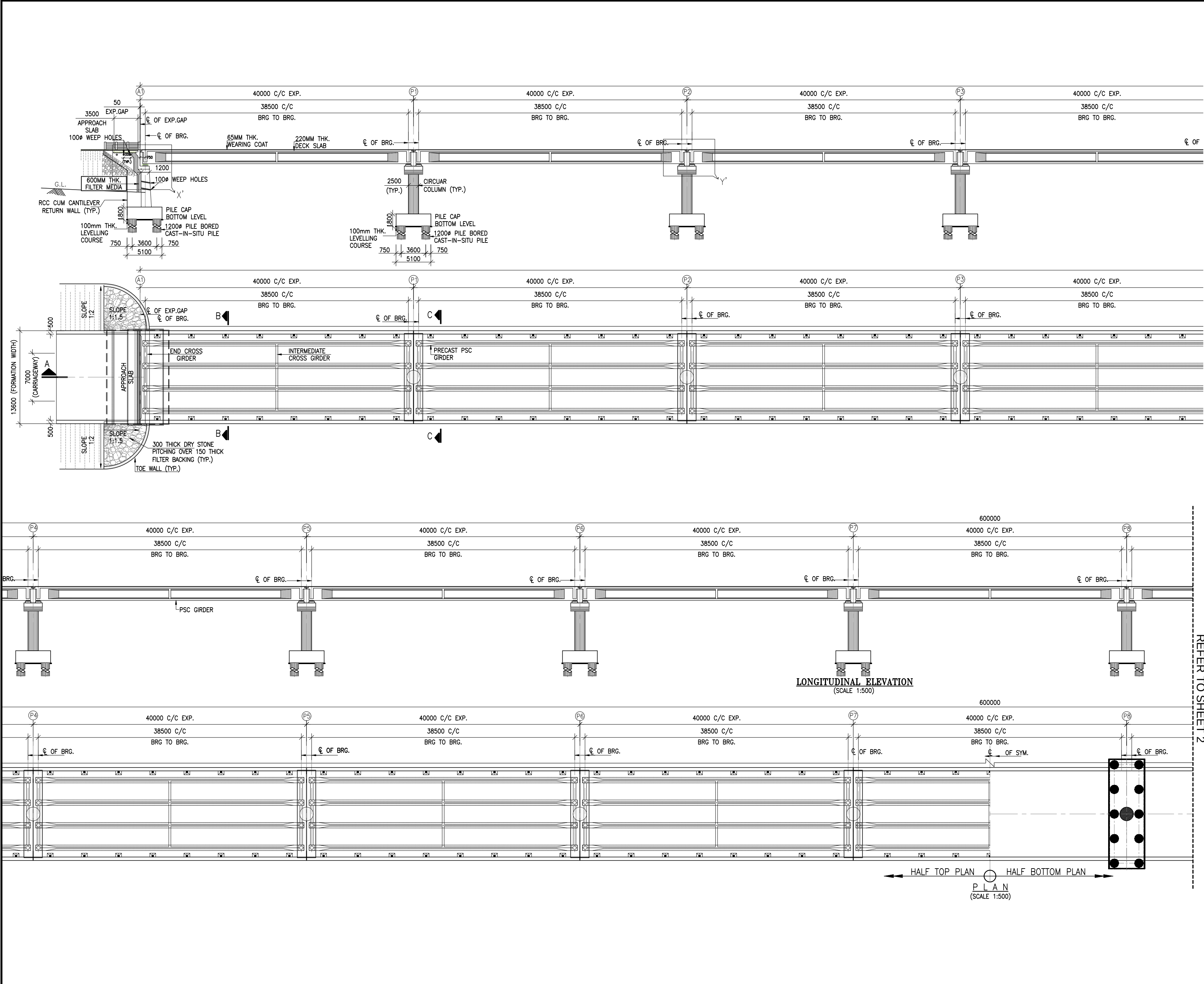
LEGEND:-

- FDN. LVL – FOUNDING LEVEL
FRL – FINISHED ROAD LEVEL
C/L – CENTER LINE
E.J – EXPANSION GAP
BRG – BEARING

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:	Scale : As Shown	Sheet: 1 OF 2	Date : Dec-2024	A2
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	XPLORER In JV with MERNOK & CONSTRUCTION 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh ÷ 201301	NHIDCL National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi ÷ 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Drawn By : MK	(VIADUCT AT CH. 76+030 GAD) (SPAN 14x40)				
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS					
R2-	15-10-2024- REVISED AS PER OBSERVATIONVATION				Approved By : VY	Dwg No:XPL/DSD/WB/KM18.6/VIADUCT-01				



Rev.No.	Description For Revision.	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh 201301	Client:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi 110029	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of fWidening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Design By : PB		Title: (VIADUCT AT CH. 76+030 GAD) (SPAN 14x40)		
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT				Drawn By : MK				
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS				
R2-	15-10-2024- REVISED AS PER OBSERVATIONVATION				Approved By : VY		Dwg No:XPL/DSD/WB/KM18.6/VIADUCT-0		
					Scale : As Shown		Sheet: 2 OF 2	Date : Dec-2024	A2

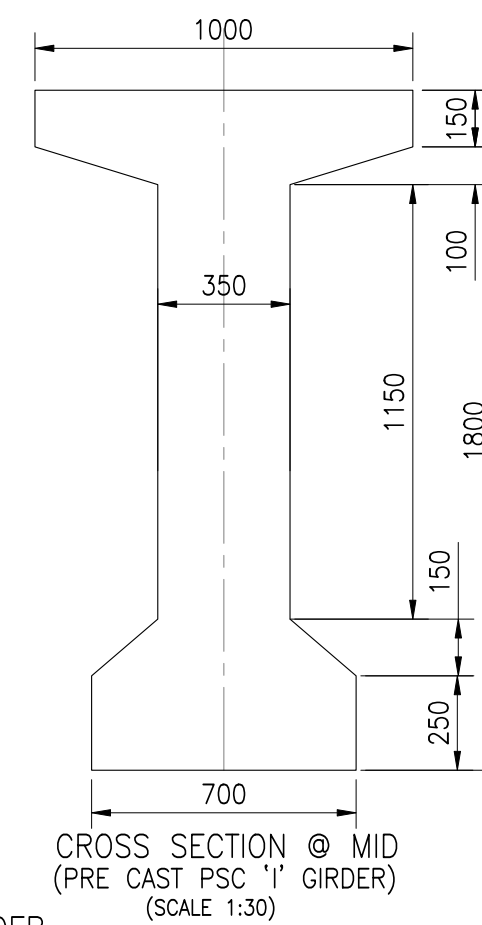
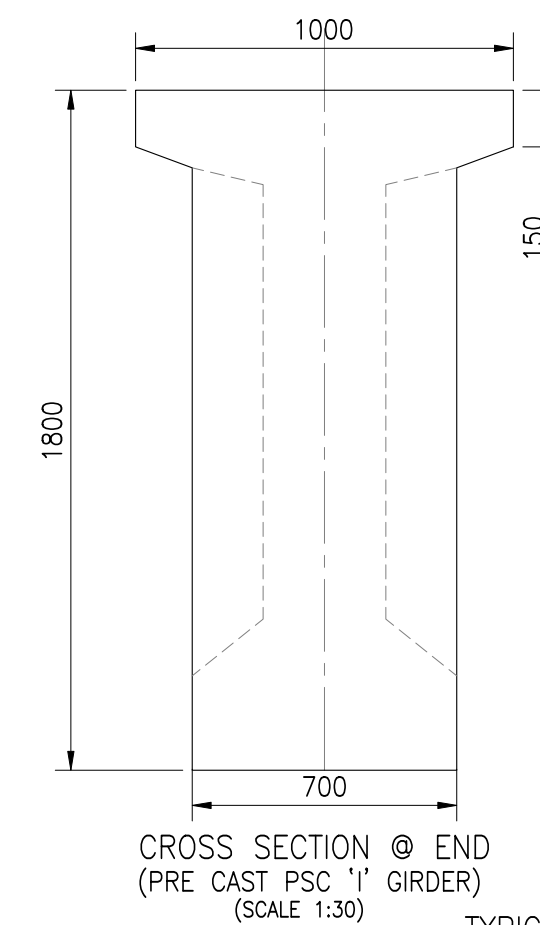
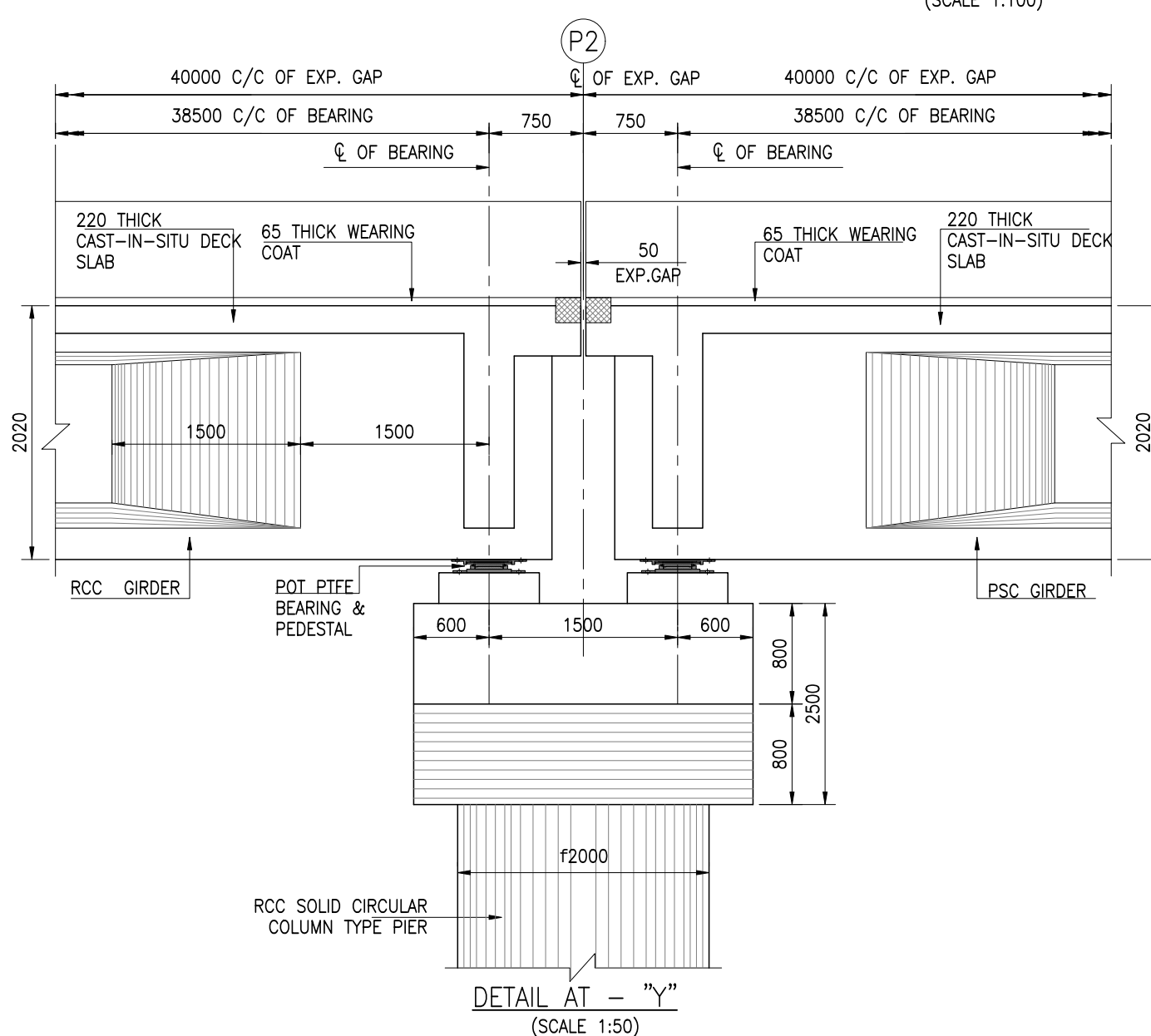
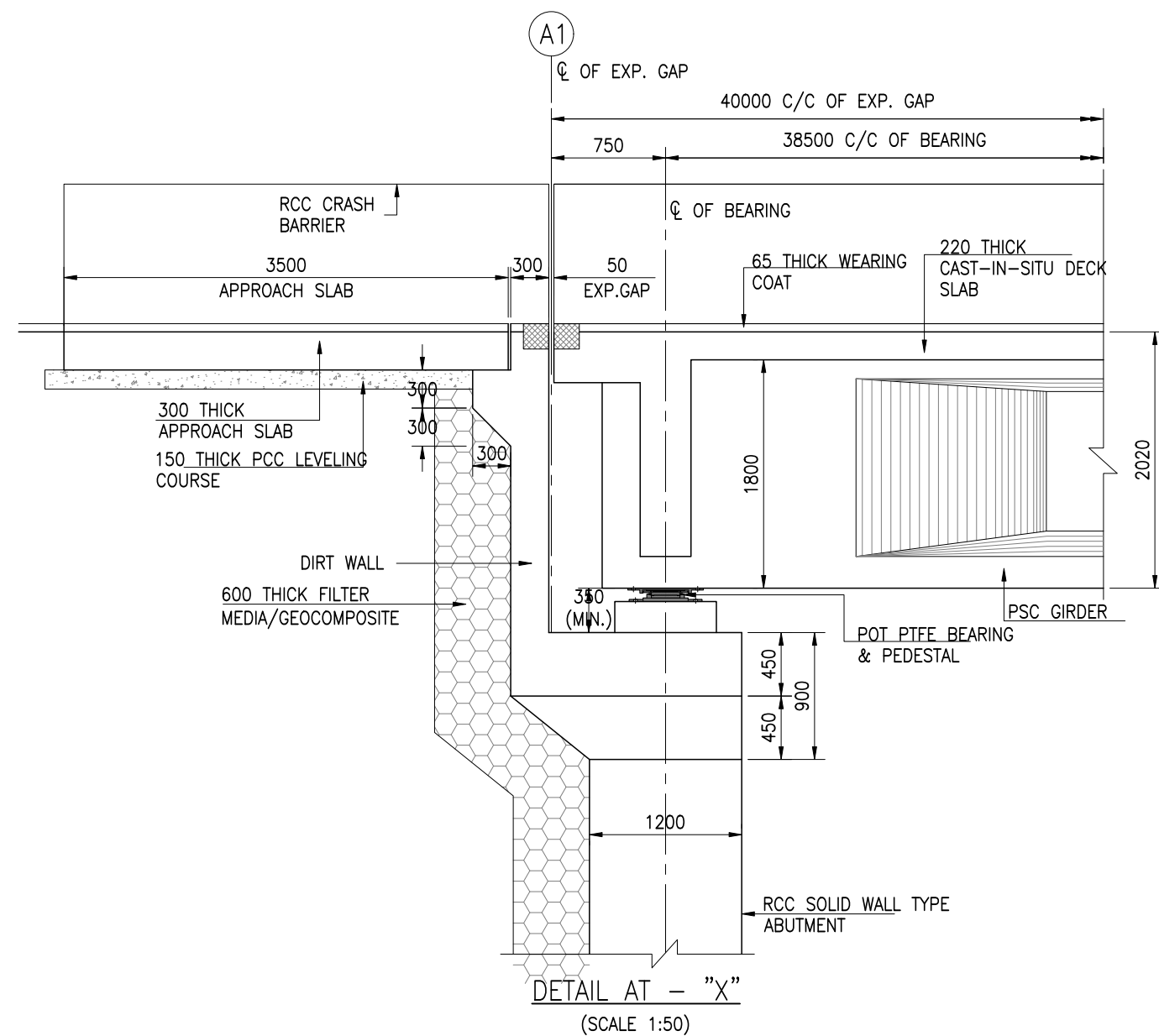
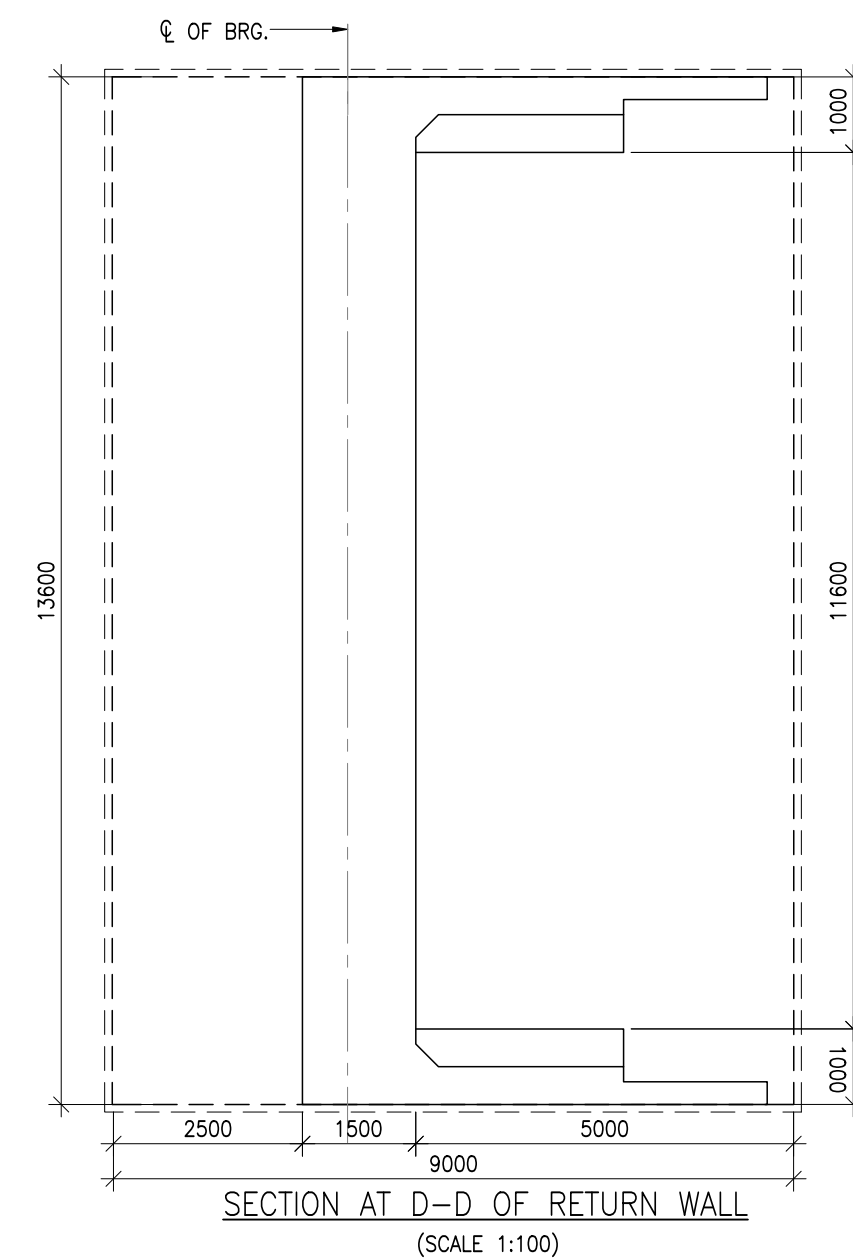
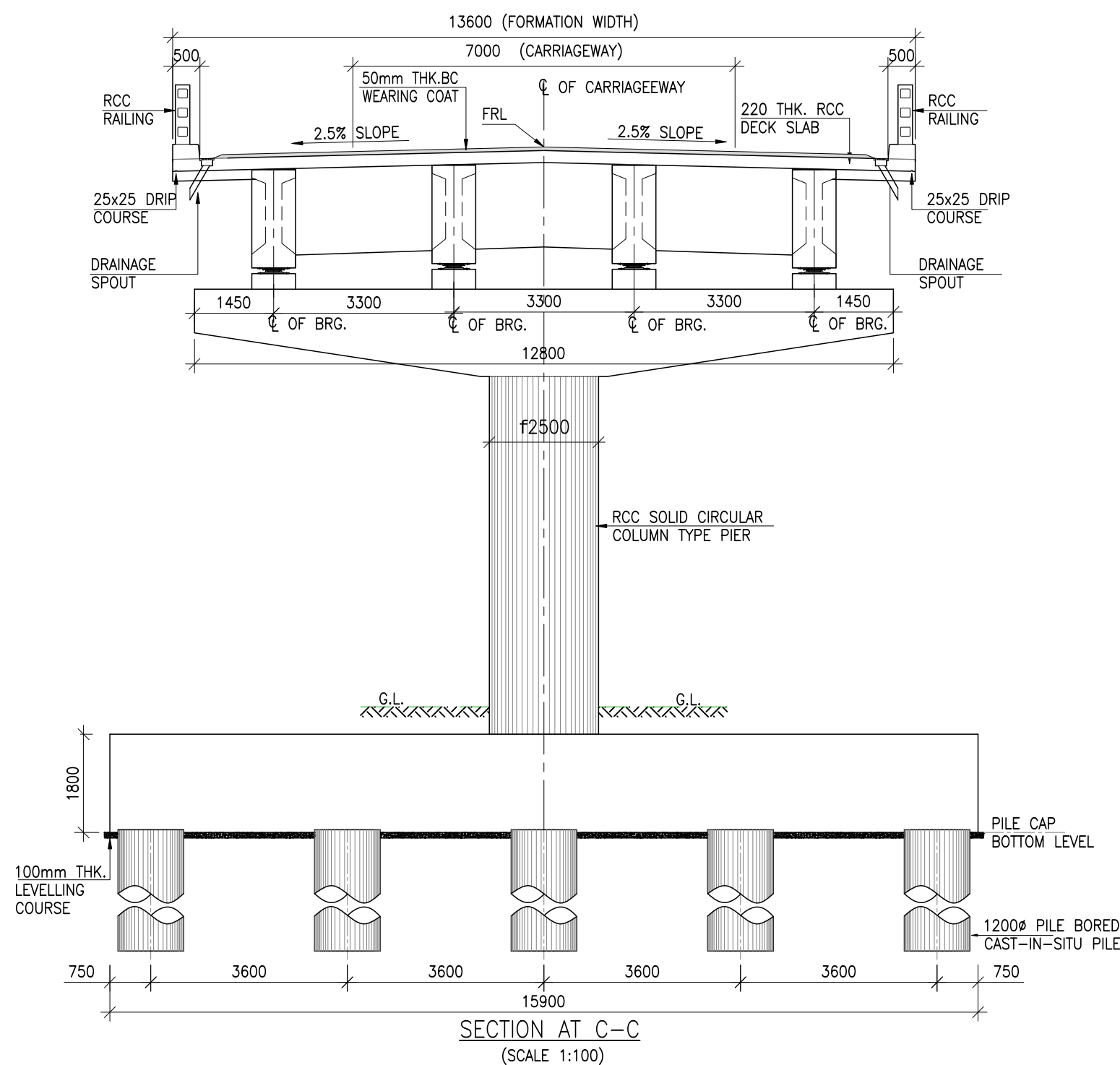
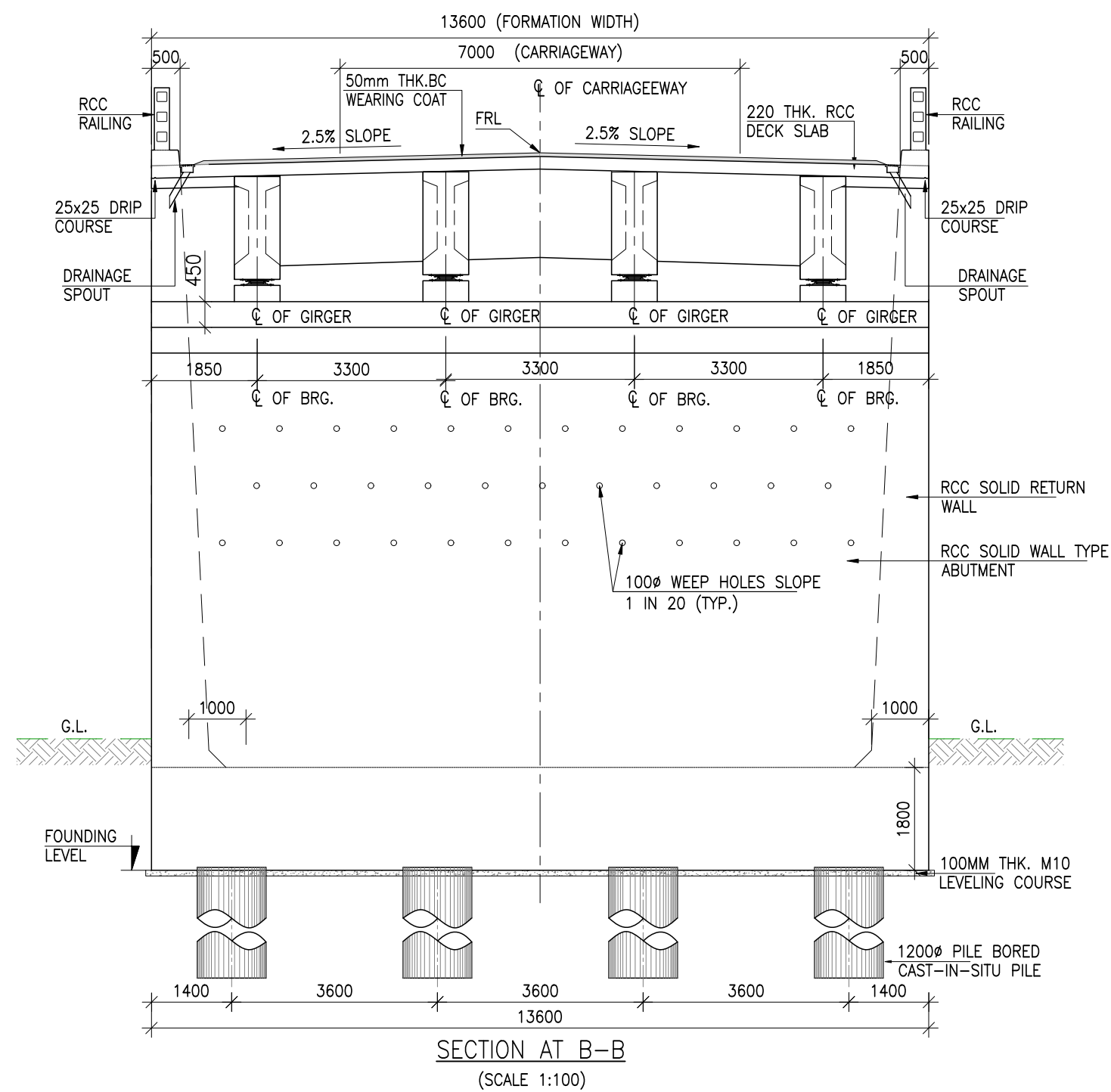


- NOTES:-**
- ALL DIMENSION ARE IN MILLIMETERS, LEVELS IN METERS AND CHAINAGES IN KILOMETERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSION TO BE FOLLOWED.
 - CONCRETE SHALL BE DESIGN MIX AND SHALL HAVE MINIMUM 28 DAYS CHARACTERISTIC STRENGTH ON 150mm CUBES FOR ALL ELEMENTS OF STRUCTURES AS INDICATED BELOW:-
 - RCC CRASH BARRIER M40
 - RCC CAST-IN-SITU DECK SLAB (SUPERSTRUCTURE) M40
 - PSC GIRDER (SUPERSTRUCTURE)..... M45
 - RCC CAST-IN-SITU CROSS GIRDER (SUPERSTRUCTURE).....M35
 - SUBSTRUCTURE & FOUNDATION M35
 - APPROACH SLAB M30
 - PCC LEVELING (UNDER FOUNDATION) M10
 - PCC LEVELING (UNDER APPROACH SLAB) M15
 - PROPOSED STRUCTURE IS DESIGNED IN ACCORDANCE WITH PROVISION OF CLAUSE 204.3 AND 204.5 OF IRC-6-2017 FOR MOST SEVERE LOADING OF:
 - ONE LANE OF IRC CLASS 70R LOADING AND ONE LANE OF IRC CLASS A OR THREE LANE OF IRC CLASS A LOADING WHEN FOOTPATH IS IN POSITION.
 - ONE LANE OF IRC CLASS 70R LOADING AND ONE LANE OF IRC CLASS-A LOADING OR THREE LANE OF IRC CLASS A OR TWO LANE OF IRC CLASS 70R LOADING & SV LOADING WHEN FOOTPATH IS REMOVED.
 - WEARING COAT 65MM THK.
 - CLEAR COVER TO OUTERMOST STEEL SHALL BE AS BELOW:-
 - SUPERSTRUCTURE (CAST IN-SITU) 40mm
 - SUB-STRUCTURE 50mm
 - FOUNDATION 75mm
 - HYSD STEEL – FE:500D (CONFIRM TO IS:1786)
 - ALL SPACE EXCAVATED AND NOT OCCUPIED BY THE FOUNDATION & OTHER PERMANENT WORK SHALL BE REFILLED WITH EARTH UP TO SURFACE OF SURROUNDING GROUND IN ACCORDANCE WITH SECTION 300 OF "MORTH" SPECIFICATION. IN CASE OF EXCAVATION IN ROCK,THE ANNULAR SPACE AROUND FOUNDATION SHALL BE FILLED WITH M15 PCC UP TO THE TOP OF ROCK.
 - STRIP SEAL TYPE EXPANSION JOINTS SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS FOR ROAD AND BRIDGE WORKS.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT APPROVED HIGHWAY DRAWINGS FOR STRUCTURE ORIENTATION, SKEW FRL & CAMBER/SUPER ELEVATION,ETC IF ANY DISCREPANCY FOUND IT SHALL BE BROUGHT TO THE NOTICE OF DESIGN CONSULTANT/PROOF CHECKING CONSULTANT.
 - PROPOSED CHAINAGE / FRL SHALL BE CHECKED AND CONFIRMED AS PER APPROVED PLAN & PROFILE.
 - THE PROJECT ROAD FALLS WITHIN SEISMIC ZONE- IV
 - EXPOSURE CONDITION IS MODERATE.
 - NET SBC CONSIDERED IN DESIGN IS 20T/M² & SAME SHALL BE ASCERTAINED PRIOR TO RESTING OF FOUNDATION.
 - TYPE OF FOUNDATION & STRUCTURE IS TENTATIVE, IT MAY BE CHANGE, DURING DETAIL DESIGN. THIS GAD ONLY REFER FOR SPAN ARRANGEMENT.
 - BEARING TYPE: POT PTFE.
 - DRAINAGE SPOUT/PIPE SHALL BE PROVIDED IN DECK SLAB AS PER MORTH 2014
 - LEVELS SHOWN IN RESPECTIVE DRAWINGS MUST BE ACERTAINED/VERIFIED AT SITE. IN CASE OF ANY DEVIATION, DESIGN AND DRAWINGS ARE REQUIRED TO BE REVISED FOR FURTHER REVIEW BEFORE EXECUTION OF WORK.
 - WEEP HOLES OF 100MM DIA SHALL BE PLACED AT 1.0M C/C HORIZONTALLY AND 1.0M C/C VERTICALLY FROM LWL TO H.F.L IN RETAINING WALLS AND ABUTMENT FOLLOWED IRC 78:2014 AND MORTH SPECIFICATION.
 - BACK FILLING SHALL BE CARRIED OUT WITH SOIL PROPERTIES, C=0 % & $\phi > 30^\circ$ THE SOIL SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT TO 98% PROCTOR DENSITY, SHALL BE CONFIRMED AS PER C:710.1.4 OF IRC 78:2014 AND MORTH SPECIFICATIONS.

LEGEND:-

- FDN. LVL – FOUNDING LEVEL
FRL – FINISHED ROAD LEVEL
CL – CENTER LINE
E.J – EXPANSION GAP
BRG – BEARING

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	XPLORER CONSULTANCY SERVICES PVT. LTD. in joint venture DSD INFRA TECH MANAGEMENT PVT. LTD. in Association With MAVERICK MERNOK & CONSTRUCTION 511, Tower b, itum, plot-A40 Sector-62, Noida Uttar Pradesh ĩ 201301	NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORP. LTD. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi ĩ 110029	CONSULTANCY SERVICES FOR PREPARATION OF DPR AND PROVIDING SERVICES FOR PRE-CONSTRUCTION ACTIVITIES IN RESPECT OF R/WIDENING AND UP-GRADATION OF EXISTING CARRIAGEWAY INTO 2L+PS CONFIGURATION FROM LAVAMORE (KM 61.10) TO START OF PEDONG BYPASS (KM 79.700) ALONG NH-717A IN THE STATES OF WEST BENGAL".	Drawn By : MK	(VIADUCT AT CH. 76+770 GAD) (SPAN 15x40)
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS	
R2-	15-10-2024- REVISED AS PER OBSERVATIONVATION				Approved By : VY	
					Scale : As Shown	Dwg No:XPL/DSD/WB/KM18.6/VIADUCT-01
					Sheet: 1 OF 3	Date : Dec-2024
						A2



TYPICAL X-SECTION OF GIRDER
(SCALE 1:20)

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:		
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh - 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi - 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Drawn By : MK	(VIADUCT AT CH. 76+770 GAD) (SPAN 15x40)		
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS			
R2-	15-10-2024- REVISED AS PER OBSERVATION				Approved By : VY	Dwg No:XPL/DSD/WB/KM18.6/VIADUCT-03		
					Scale : As Shown	Sheet: 3 OF 3	Date : Dec-2024	A2

BREAST WALL & RETAINING WALL

TABLE 1: DIMENSIONS OF RETAINING WALL

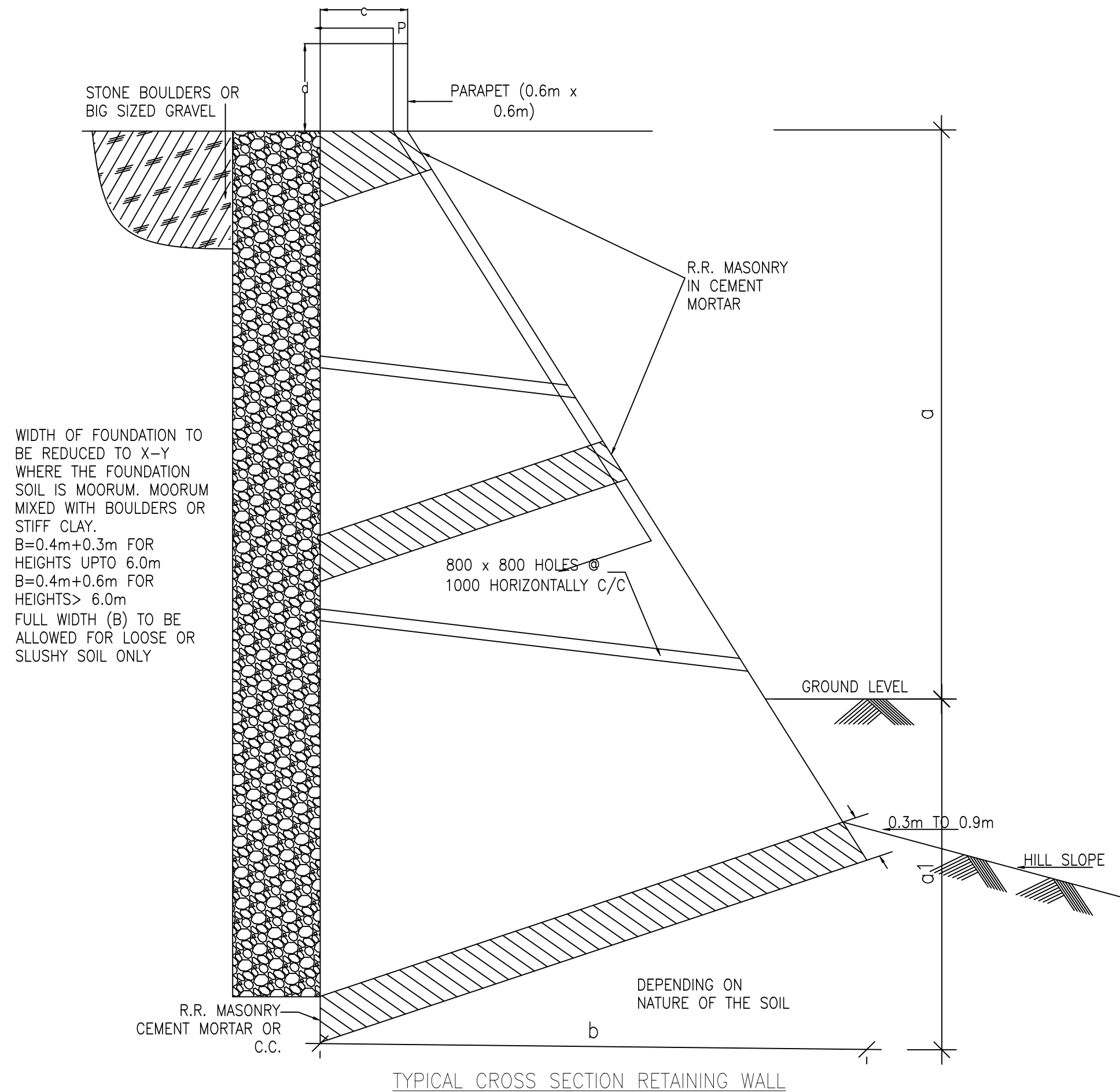
SCHEDULE OF DIMENSIONS (mm)

TOTAL HEIGHT 'H'	BASE WIDTH 'b'	AT TOP 'c'	HEIGHT OF PARAPET 'd'	HEIGHT FROM TOP TO GROUND LEVEL 'a'	DEPTH BELOW EGL 'a1'
4000	2250	600	1000	2000	2000
5000	2750	600	1000	3000	2000
6000	3250	600	1000	4000	2000

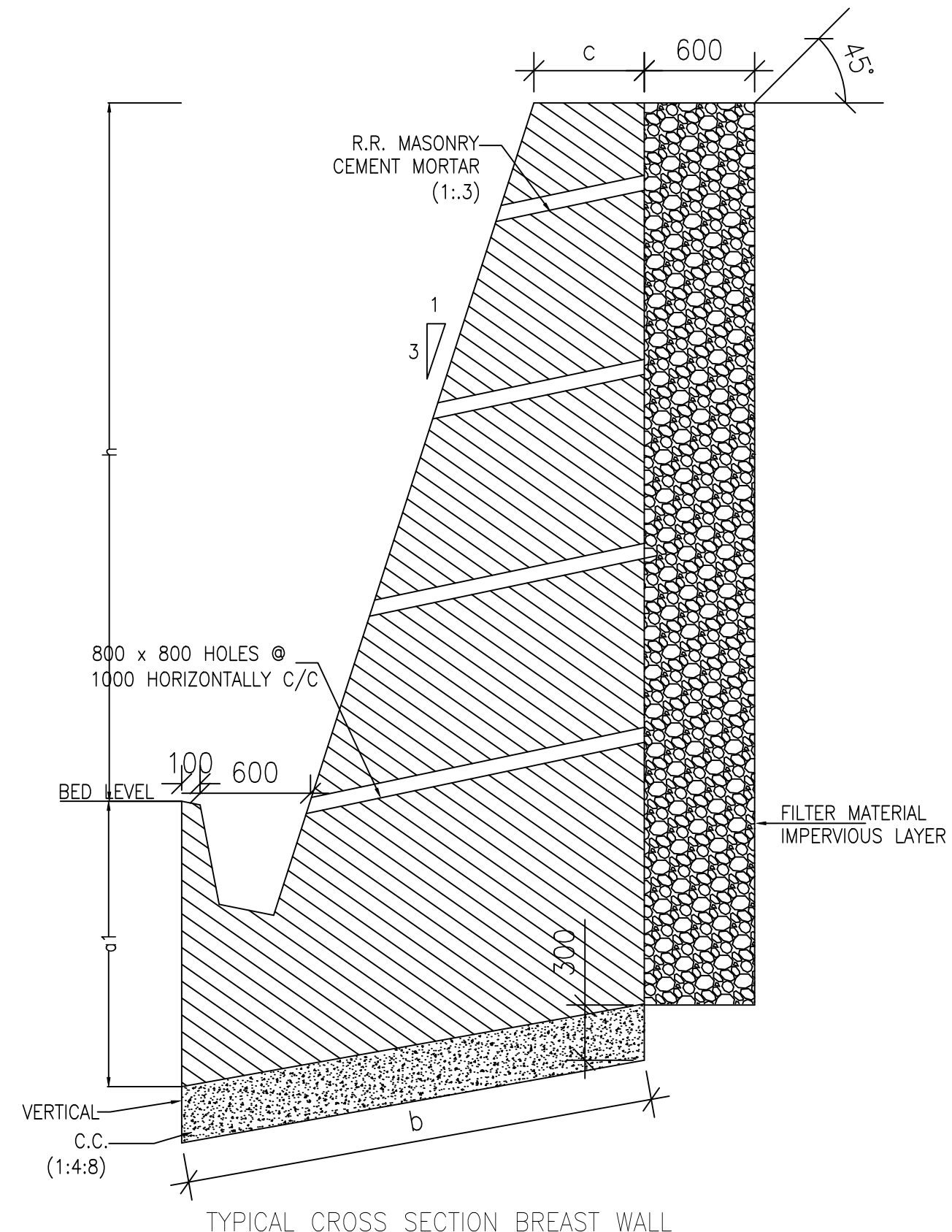
TABLE 2: DIMENSIONS OF BREAST WALL

SCHEDULE OF DIMENSIONS (mm)

TOTAL HEIGHT 'H'	BASE WIDTH 'b'	AT TOP 'c'	DEPTH BELOW EGL 'a1'
3000	1750	600	1500
4000	2250	600	1500



TYPICAL CROSS SECTION RETAINING WALL



TYPICAL CROSS SECTION BREAST WALL

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:					
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh i 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi i 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of fWidening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Drawn By : MK	TYPICAL CROSS SECTION OF PLUM CONCRETE RETAINING WALL & BREAST WALL					
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS						
R2-	15-10-2024- REVISED AS PER OBSERVATIONVATION				Approved By : VY				Dwg No: XPL/DSD/WB/TCS/RW&BW/01		
								Scale : - NTS	Sheet: - 1 of 1	Date : Dec-2024	A2

TABLE 1: SCHEDULE OF DIMENSIONS
SCHEDULE OF DIMENSIONS (mm)

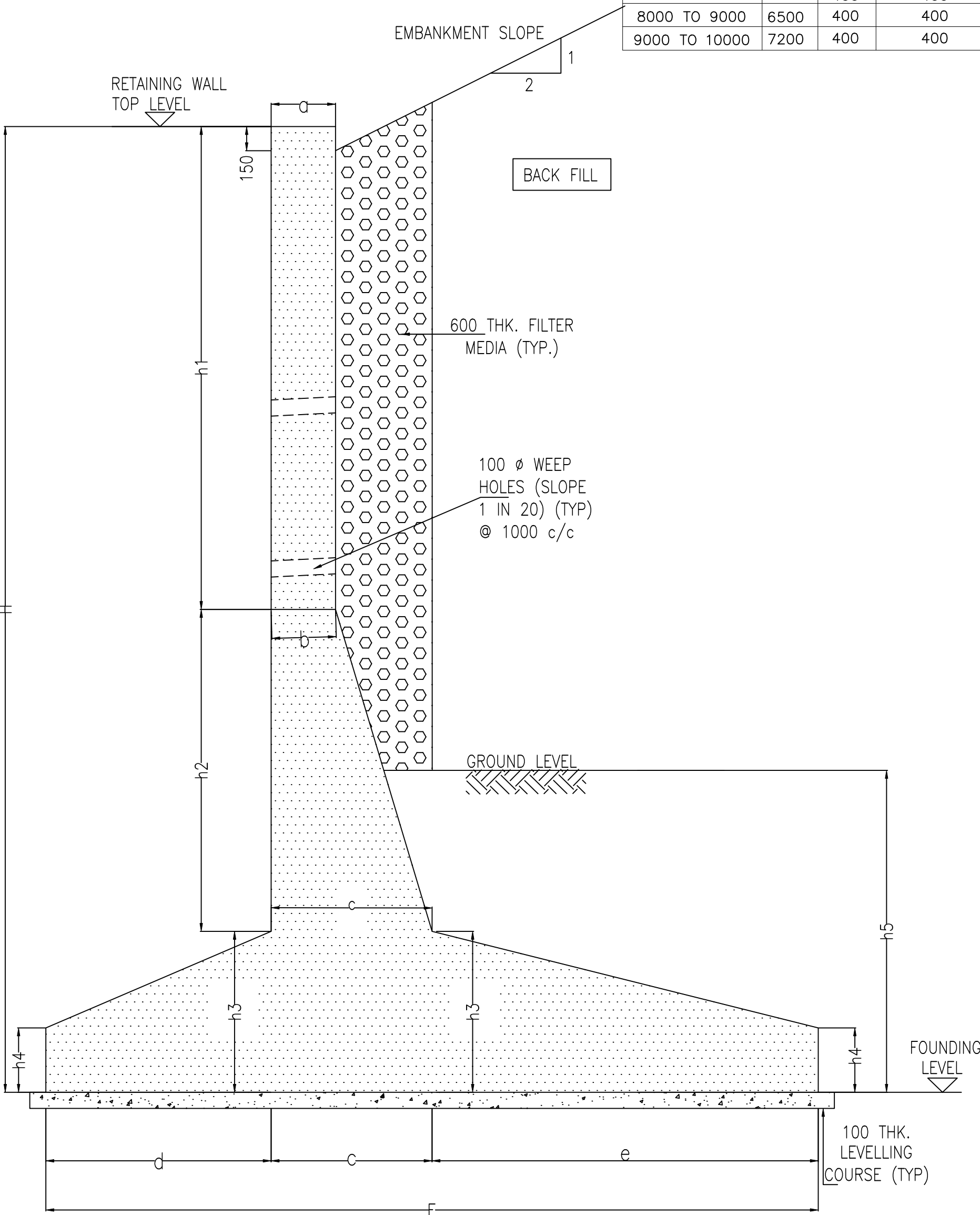
TOTAL HEIGHT 'H'	BASE WIDTH 'F'	AT TOP 'a'	STEM THICKNESS AT START OF VARYING SECTION 'b'	AT JUNCTION 'c'	HEIGHT FROM TOP TO STARTING OF VARIABLE SECTION 'h1'	HEIGHT OF VARIABLE SECTION FROM JUNCTION 'h2'	TOE WIDTH 'd'	TOE THICKNESS		HEEL WIDTH 'e'	DEPTH BELOW EGL 'h5'
								AT EDGE 'h4'	AT JUNCTION 'h3'		
7000 TO 8000	5300	400	400	1100	3000	4000	2000	400	750	2200	2000
8000 TO 9000	6500	400	400	1150	3000	5000	2900	400	1150	2300	2000
9000 TO 10000	7200	400	400	1300	3000	6000	3200	400	1300	2900	2000

NOTES :-

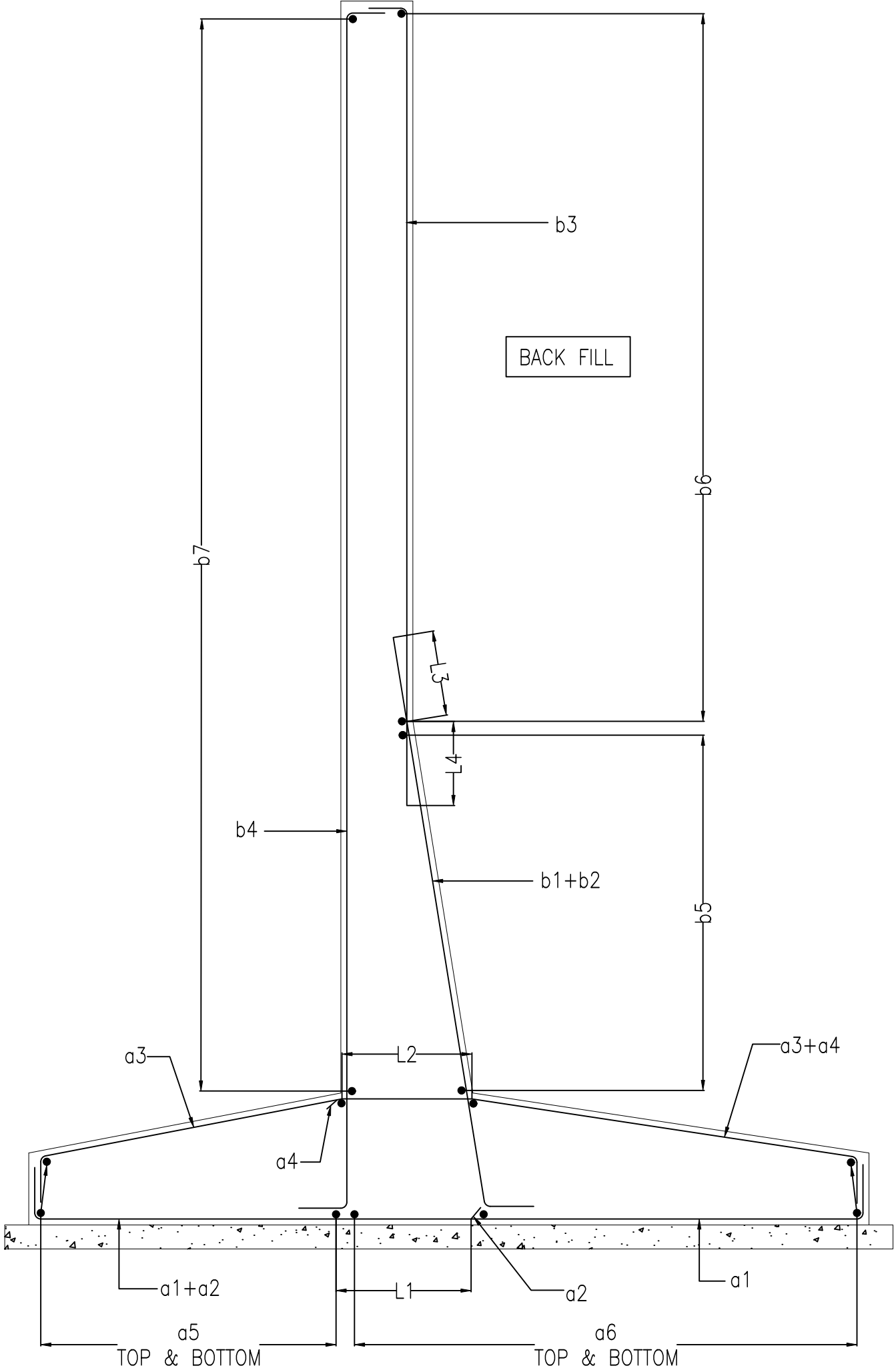
1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS IN METER UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONCRETE FOR DIFFERENT COMPONENTS SHALL BE (i) RETAINING WALL ----- M30
4. CLEAR COVER TO OUTERMOST REINFORCEMENT SHALL BE (i) RETAINING WALL -----(EARTH FACE) 75MM (NON EARTH FACE) 50MM
5. ALL REINFORCING BARS SHALL BE THERMO MECHANICALLY TREATED (TMT) BARS (GRADE DESIGNATION Fe-500D) CONFORMING TO IS:1786 STANDARDS.
6. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR AS POSSIBLE. IN CASE LAPPING OF REINFORCEMENT BARS BECOMES UNAVOIDABLE. MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE 56 TIMES OF DIA OF SMALLER BARS.NOT MORE THAN 50% BARS SHALL BE LAPPED AT A SECTION.
7. ALL LAPS SHALL BE SUITABLY STAGGERED AND MINIMUM C/C DISTANCE BETWEEN THE ADJACENT LAPS SHALL BE 1.3 TIMES OF LAP LENGTH.

TABLE 2: SCHEDULE OF REINFORCEMENT

REINFORCEMENT DETAILS					
S.N.	BAR MARK	BAR SHAPE	HEIGHT 7000 TO 8000	HEIGHT 8000 TO 9000	HEIGHT 9000 TO 10000
1	a1		ϕ 25-200	ϕ 25-200	ϕ 32-200
2	a2		ϕ 20-200	ϕ 25-200	ϕ 25-200
3	a3		ϕ 20-200	ϕ 25-200	ϕ 25-200
4	a4		ϕ 20-200	ϕ 20-200	ϕ 25-200
5	a5		ϕ 16-200	ϕ 16-200	ϕ 16-150
6	a6		ϕ 16-200	ϕ 16-200	ϕ 16-150
7	b1		ϕ 25-200	ϕ 25-200	ϕ 32-200
8	b2		ϕ 20-200	ϕ 25-200	ϕ 25-200
9	b3		ϕ 16-200	ϕ 16-200	ϕ 20-200
10	b4		ϕ 12-220	ϕ 12-220	ϕ 12-220
11	b5		ϕ 12-200	ϕ 12-200	ϕ 12-150
12	b6		ϕ 12-200	ϕ 12-200	ϕ 12-150
13	b7		ϕ 12-200	ϕ 12-200	ϕ 12-150
	L1	mm	1000	1200	1500
	L2	mm	1000	1200	1500
	L3	mm	1000	1200	1500
	L4	mm	1000	1200	1500

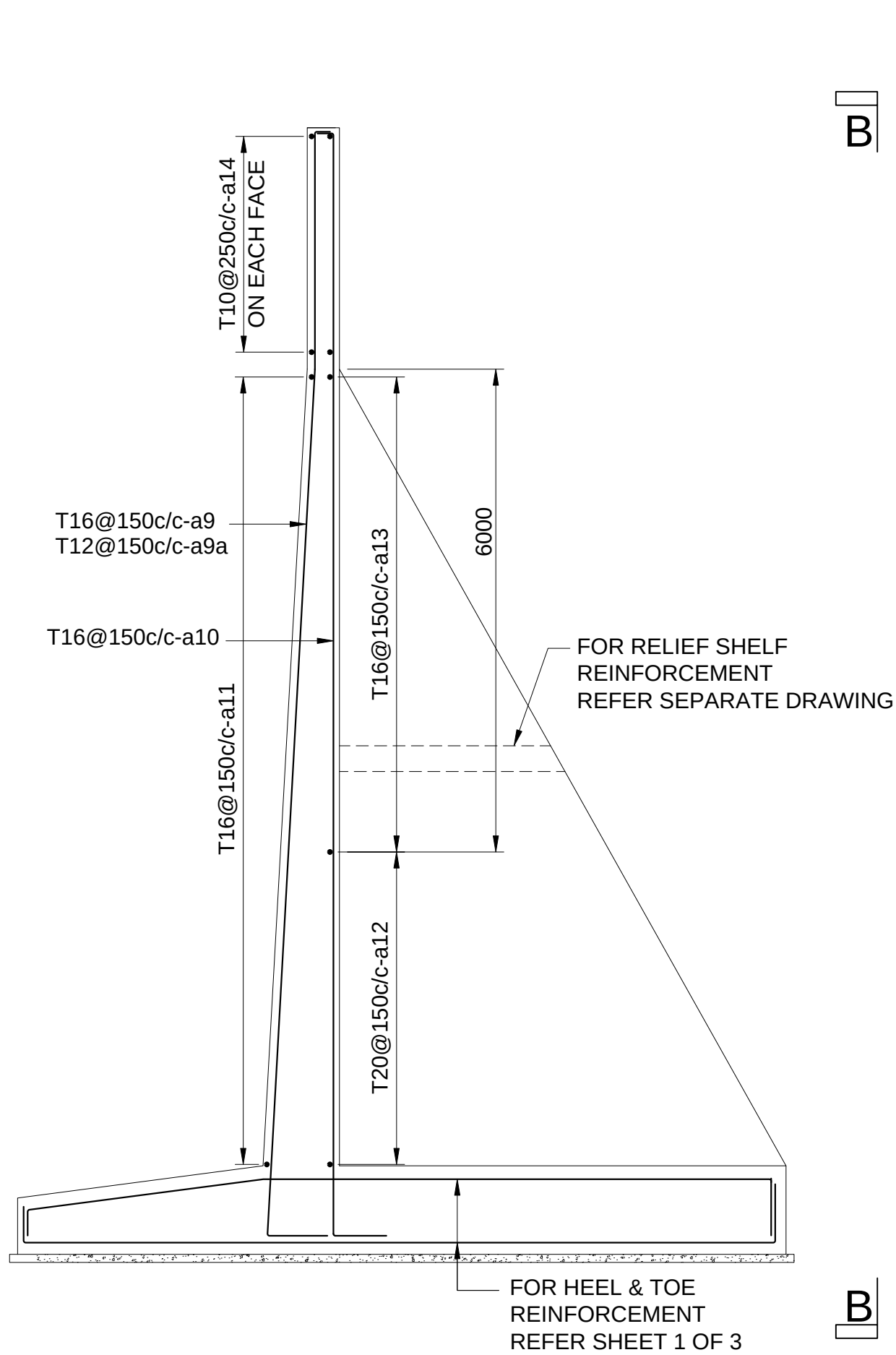


TYPICAL CROSS SECTION OF RETAINING WALL
(SHOWING DIMENSIONS REFER TABLE 1)



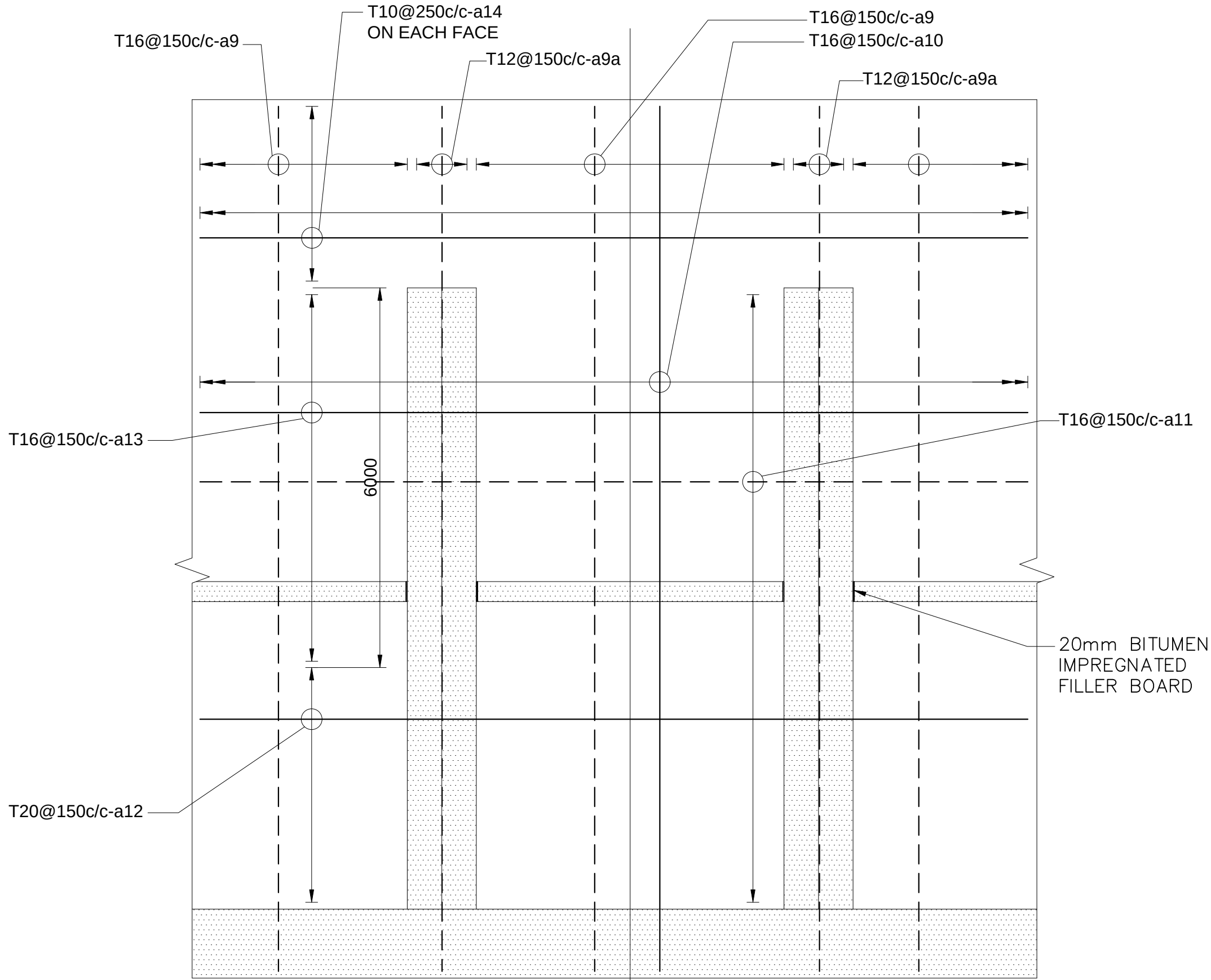
TYPICAL CROSS SECTION OF RETAINING WALL
(SHOWING REINFORCEMENT REFER TABLE 2)

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title: DETAIL DRAWING OF RETAINING WALL WITH REINFORCEMENT (HEIGHT-7000mm TO 10000mm)		
					Drawn By : MK			
					Checked By : JS			
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	XPLORER in JV with DSD MERNOK & CONSTRUCTION 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh 201301	NHIDCL National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Approved By : VY	Dwg No: XPL/DSD/WB/RW & REIN/01		
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Scale :	Sheet: - 1 of 1	Date : Dec-2024	A2
R2-	15-10-2024- REVISED AS PER OBSERVATIONVATION							



CROSS SECTION OF COUNTERFORT RETAINING WALL

(SHOWING REINFORCEMENT OF STEM)



SECTION B-B (SHOWING REINFORCEMENT OF STEM)

FOR CLARITY COUNTERFORT REINFORCEMENT NOT SHOWN

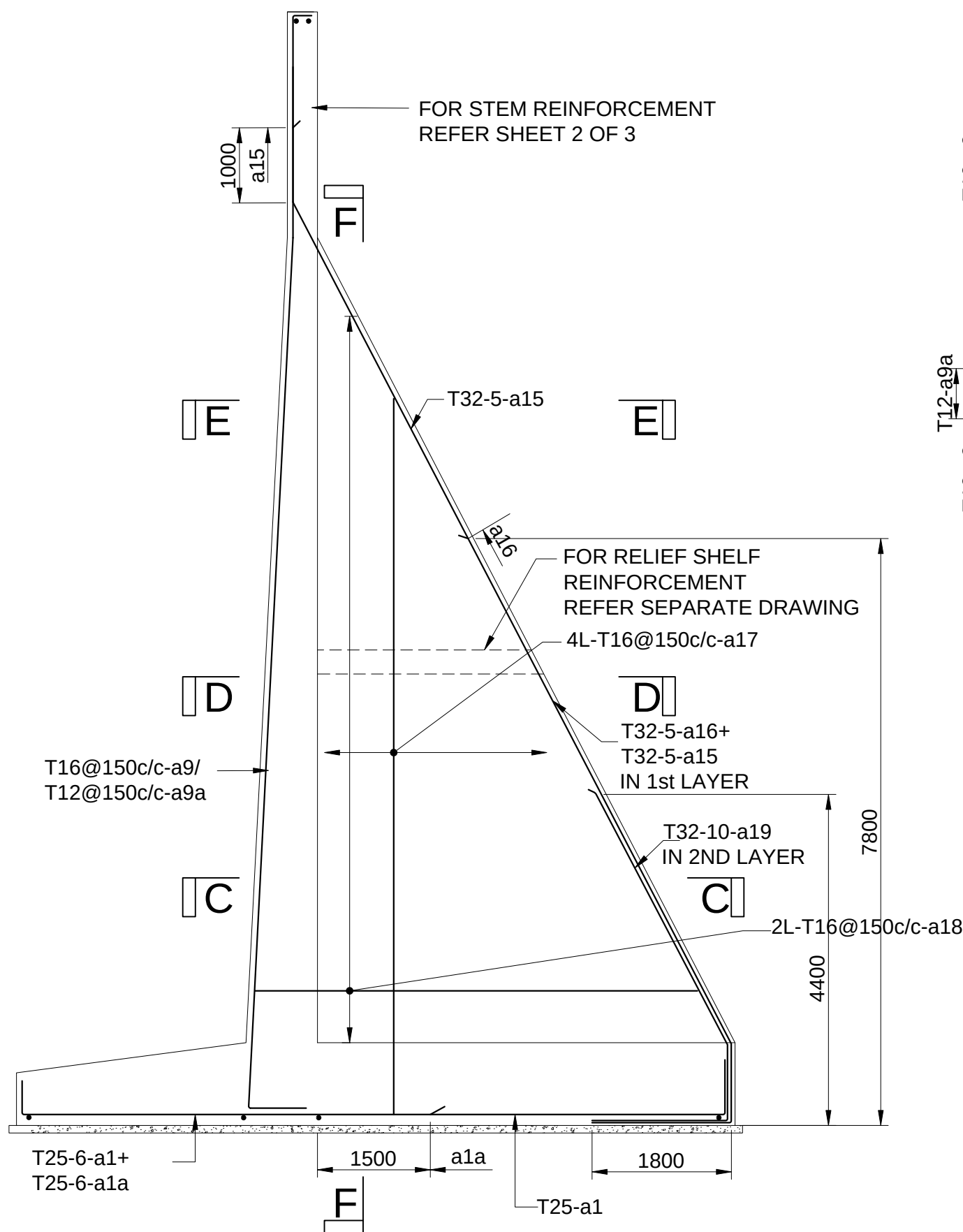
LEGEND :

- T16 @ 150c/c-a9
- BAR MARK
- SPACING OF BARS IN MM.
- DIA. OF BAR
- H.Y.S.D. BARS
- INDICATES BAR IN FRONT
- INDICATES BAR IN BEHIND

NOTES:

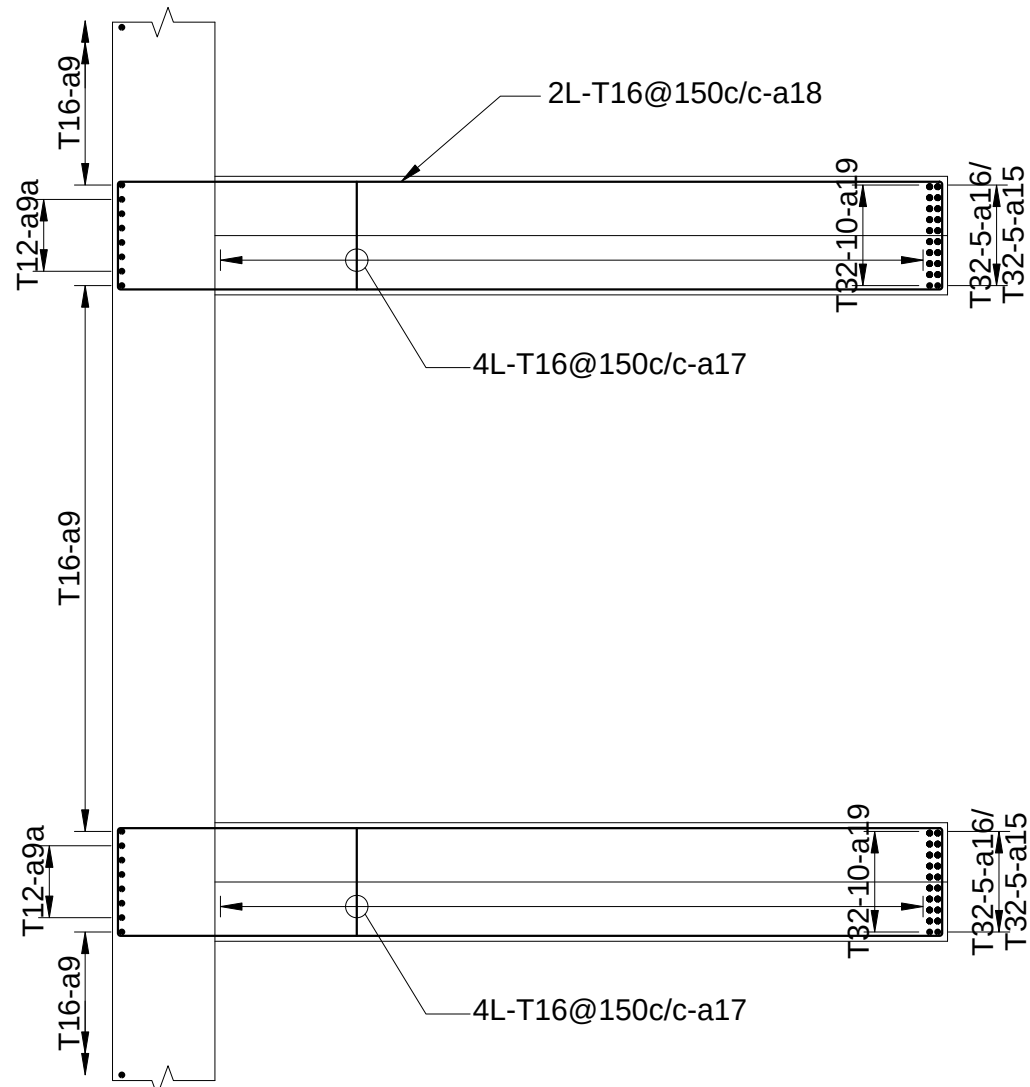
- ALL DIMENSIONS AND R.L.S ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 75mm CLEAR COVER TO OUTER MOST REINFORCEMENT SHALL BE PROVIDED.
- ALL REINFORCING BARS SHALL BE THERMO MECHANICALLY TREATED (TMT) BARS (GRADE DESIGNATION Fe-500D) CONFIRMING TO IS:1786.
- BARS SHALL BE LAPPED IN SUCH A WAY THAT NOT MORE THAN 50% OF THE BARS ARE LAPPED AT ANY SECTION. LAP LENGTH SHALL BE KEPT AS $56 \times d$, FOR ALL BARS EXCEPT BAR MARKED a3, a4, a7 & a8. FOR THESE BARS LAP LENGTH SHALL BE $81d$, WHERE d IS THE DIA OF BARS. SPACING OF THE TRANSVERSE REINFORCEMENT SHALL NOT BE MORE THAN 150MM AT THE LOCATIONS WHERE BARS ARE LAPPED.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title: Reinforcement Detail of Counterfort Retaining Wall			
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh - 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi - 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Drawn By : MK				
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS				
R2-	15-10-2024- REVISED AS PER OBSERVATION				Approved By : VY	Dwg No: XPL-DSD/WB/CFRW/REIN-02			
					Scale : NTS	Sheet: 02 OF 03	Date : Dec-2024	A2	



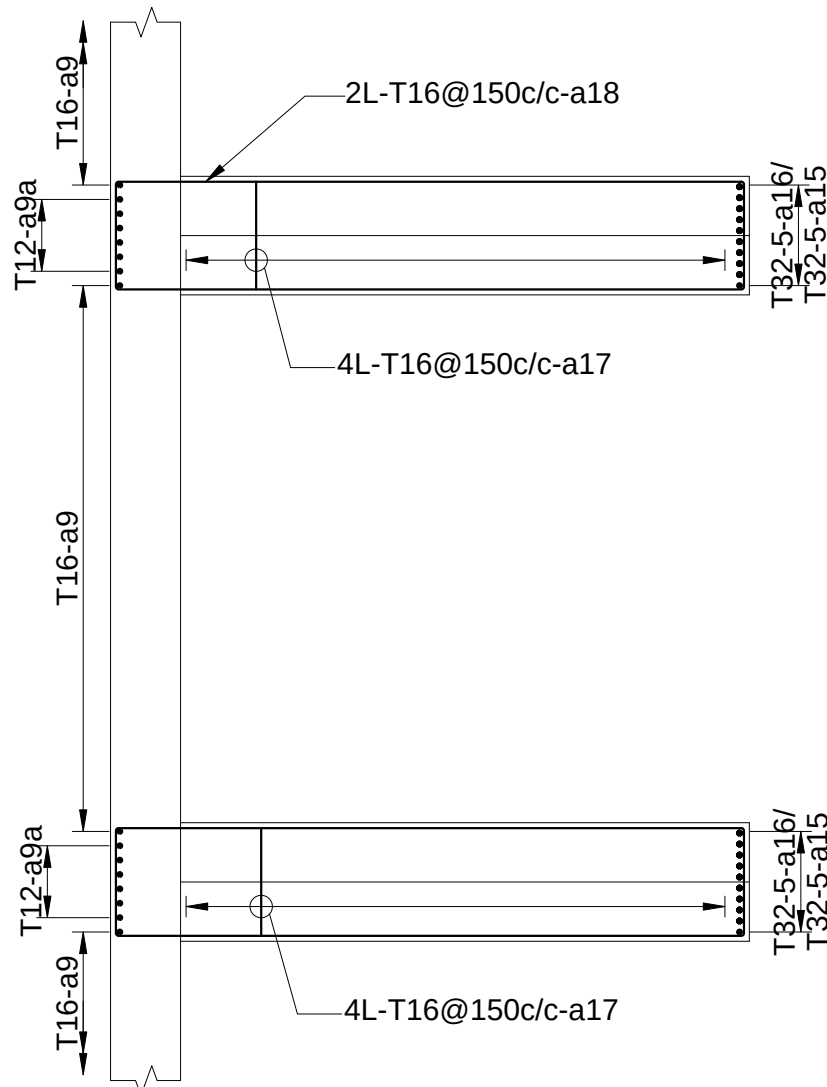
CROSS SECTION OF COUNTERFORT RETAINING WALL

(SHOWING REINFORCEMENT OF COUNTERFORT)



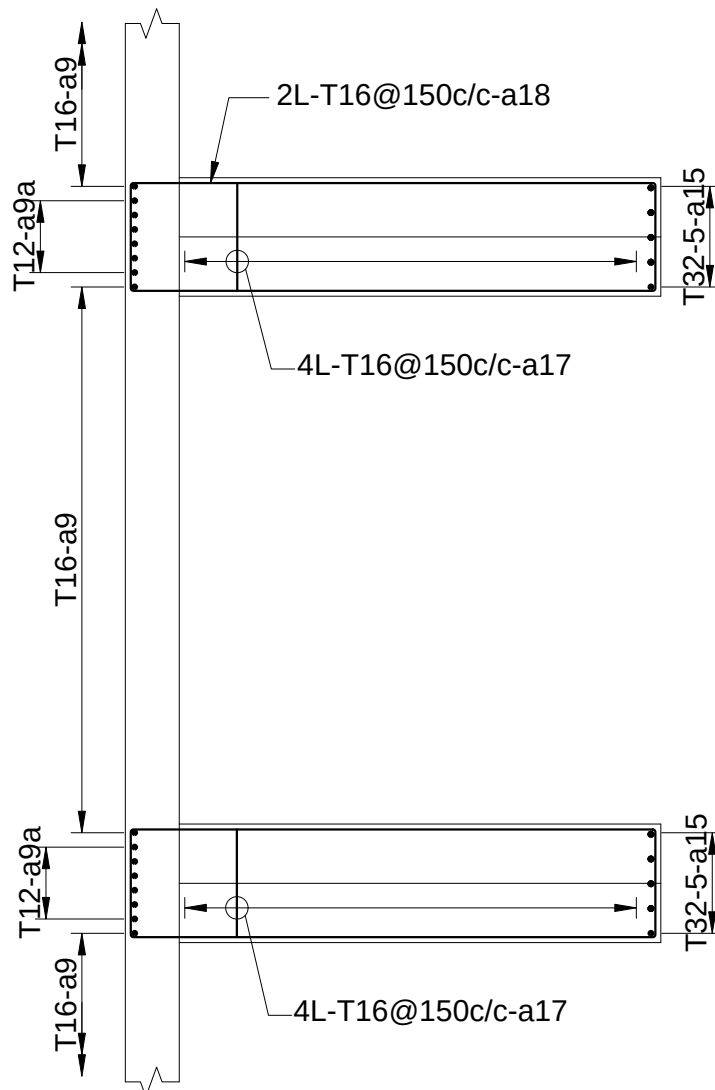
SECTION C-C

(SHOWING REINFORCEMENT OF COUNTERFORT)



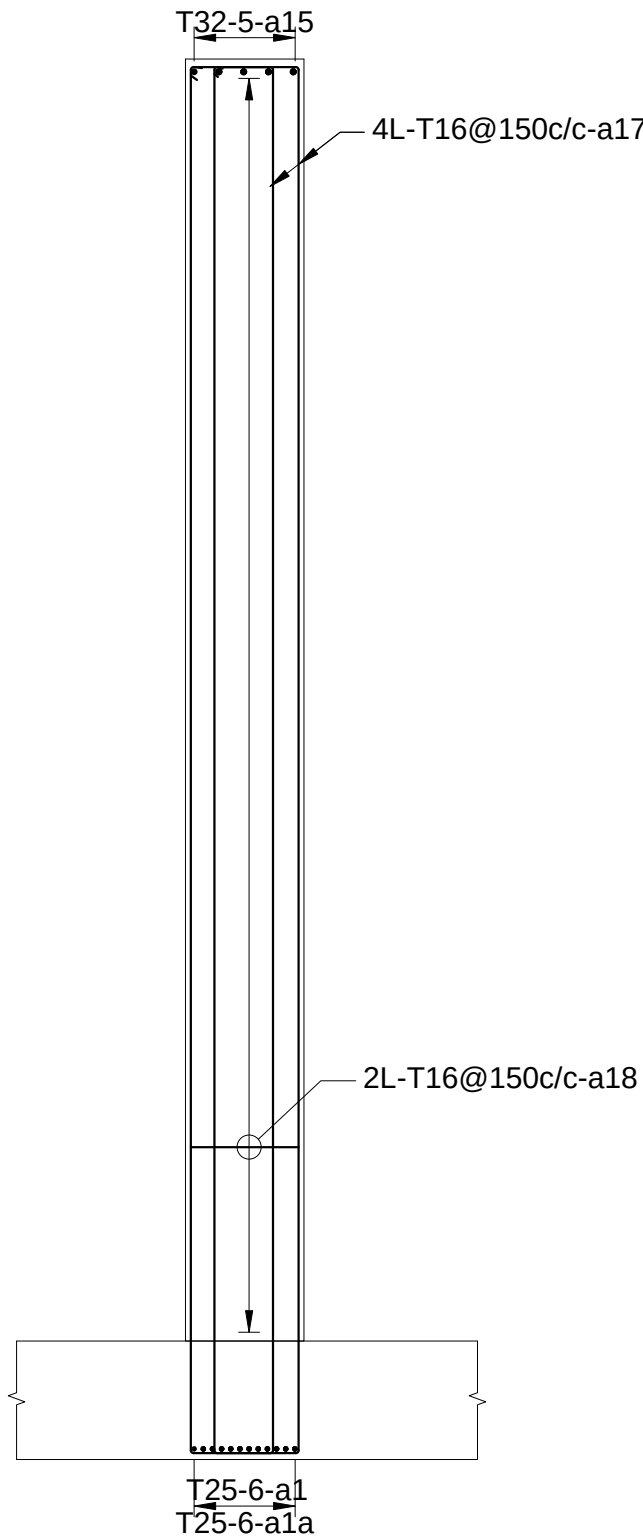
SECTION D-D

(SHOWING REINFORCEMENT OF COUNTERFORT)



SECTION E-E

(SHOWING REINFORCEMENT OF COUNTERFORT)
(RELIEF SHELF NOT SHOWN FOR CLARITY)



SECTION F-F

(SHOWING REINFORCEMENT OF COUNTERFORT)

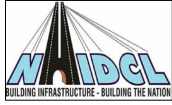
LEGEND :

- T32-10-a19
- T32-5-a15
- T25-6-a1
- BAR MARK
- NOS. OF BARS
- DIA. OF BAR
- H.Y.S.D. BARS

FOR CLARITY STEM & FOOTING REINFORCEMENT NOT SHOWN

NOTES:

- ALL DIMENSIONS AND R.LS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 50mm CLEAR COVER TO OUTER MOST REINFORCEMENT SHALL BE PROVIDED.
- ALL REINFORCING BARS SHALL BE THERMO MECHANICALLY TREATED (TMT) BARS (GRADE DESIGNATION Fe-500D) CONFIRMING TO IS:1786.
- BARS SHALL BE LAPPED IN SUCH A WAY THAT NOT MORE THAN 50% OF THE BARS ARE LAPPED AT ANY SECTION. LAP LENGTH SHALL BE KEPT AS $56 \times d$, FOR ALL BARS EXCEPT BAR MARKED $\alpha 3$, $\alpha 4$, $\alpha 7$ & $\alpha 8$. FOR THESE BARS LAP LENGTH SHALL BE $81d$, WHERE d IS THE DIA OF BARS. SPACING OF THE TRANSVERSE REINFORCEMENT SHALL NOT BE MORE THAN 150MM AT THE LOCATIONS WHERE BARS ARE LAPPED.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
R0-	30-08-2024- DRAFT DETAILED PROJECT REPORT	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To StartOf Pedong Bypass (Km 79.700) Along NH-717A in the States Of West Bengal".	Drawn By : MK	Reinforcement Detail of Counterfort Retaining Wall
R1-	21-09-2024- REVISED DRAFT DETAILED PROJECT REPORT				Checked By : JS	
R2-	15-10-2024- REVISED AS PER OBSERVATIONVATION				Approved By : VY	
					Scale : NTS	Dwg No: XPL-DSD/SK/CFRW/REIN-03
					Sheet: 03 OF 03	Date : Dec-2024
						A2

MISCELLANEOUS DRAWING

CAUTIONARY/WARNING SIGNS

RIGHT HAND CURVE
CS-01

LEFT HAND CURVE
CS-02

STEEP ASCENT
CS-03

STEEP DESCENT
CS-04

ROAD WIDENS AHEAD
CS-05

PEDESTRIANS CROSSING
CS-08

SCHOOL
CS-09

CROSS ROAD SIGNS
CS-10

SIDE ROAD RIGHT
CS-11

SIDE ROAD LEFT
CS-12

T' INTERSECTION
CS-13

SIDE ROAD AHEAD
CS-14

Y' INTERSECTION
CS-15

Y' INTERSECTION
CS-16

Y' INTERSECTION
CS-17

STAGGERED INTERSECTIONS
CS-18

STAGGERED INTERSECTIONS
CS-19

SPEED BREAKER
CS-20

DIVERSION TO THE OTHER CARRIAGEWAY
OF DUAL CARRIAGEWAY ROAD
CS-25

SERIES OF BENDS
CS-26

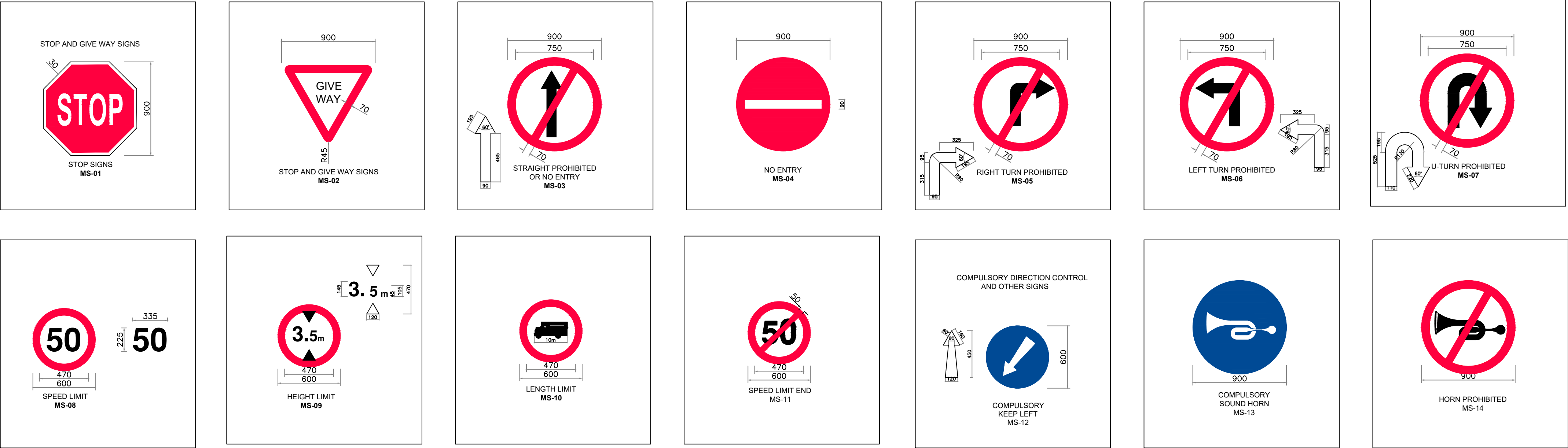
ROAD MERGING AHEAD
CS-27

CYCLE CROSSING
CS-28

HAIR PIN BEND
CS-29

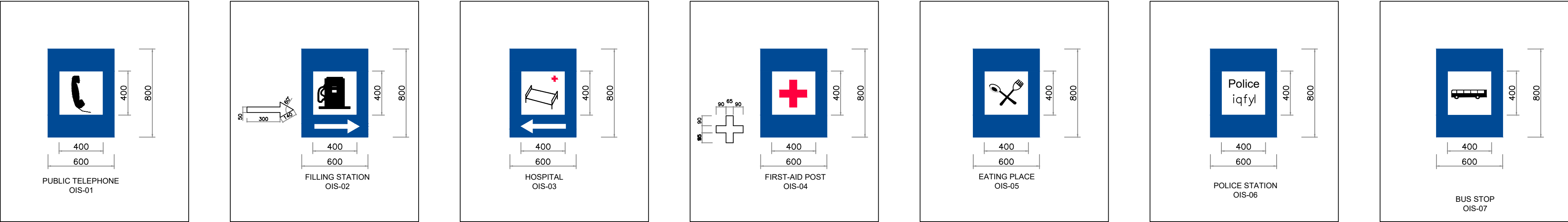
R.No.	Date	DESCRIPTION	CLIENT: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT: XPLORER In JV with DSD In Association with m Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of WB”.	Design By: RK	TITLE: CAUTIONARY / WARNING SIGNS	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
						Approved By : VY	DWG NO: XPL/DSD/WB/KM-18.6/RS-01	
						SCALE : NTS	SHEET: 01 OF 03	DATE: Dec-2024

MANDATORY/REGULATORY SIGNS



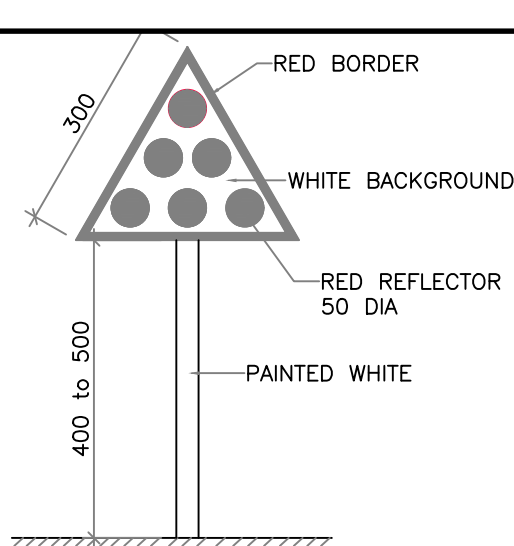
INFORMATORY SIGN BOARD:-

(A) FACILITY INFORMATION SIGNS



(B) DIRECTION AND PLACE IDENTIFICATION SIGNS

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:
R0	30-08-2024	Draft Detailed Report	NHIDCL BUILDING INFRASTRUCTURE - BUILDING THE NATION National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	XPLORER In JV with DSD In Association with Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of WB".	Drawn By : M.K	CAUTIONARY / WARNING SIGNS
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH	
						Approved By : VY	DWG NO: XPL/DSD/WB/KM-18.6/RS-02
						SCALE : NTS	SHEET: 02 OF 03
							DATE: Dec-2024



100mm DIA
RED REFLECTOR

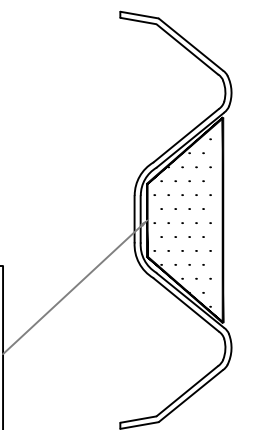
VARIABLE

PLAN

PLAN



HIGH QUALITY RED REFLECTORS OF APPROVED
SIZE AND SHAPE (TO FIXED IN THE SHAPE OF
W-BEAM), FIXED WITH APPROVED MATERIAL,
CASING ANF FIXUP SYSTEM



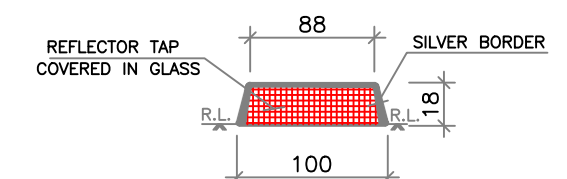
Technical drawing of a rectangular sign with a chevron pattern. The sign is supported by two vertical posts. Dimensions are indicated:

- Total width: 2400
- Height: 180
- Post height: 400 to 500
- Horizontal spacing between posts: 2400
- Horizontal spacing from each end to the first post: 240

The sign features a chevron pattern with alternating dark and light gray chevrons.

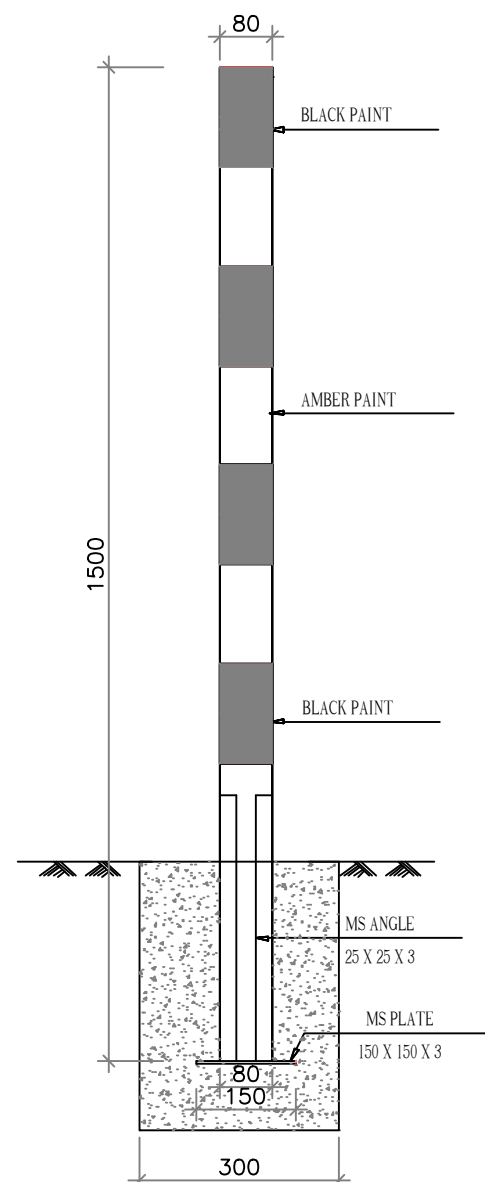
PLAN

Road Studs (Cateyes)



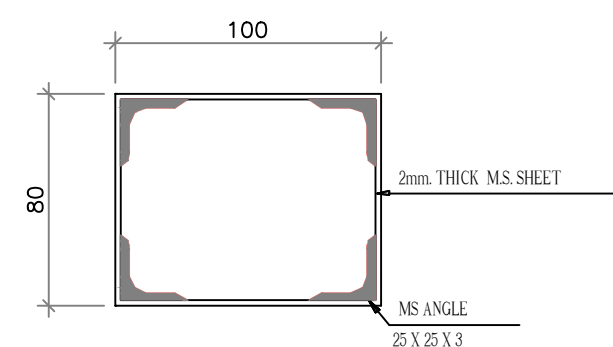
Section X - X

Road Studs (Cateyes)

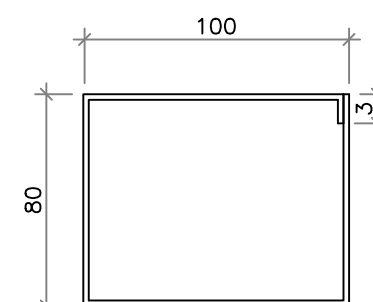


FRONT VIEW

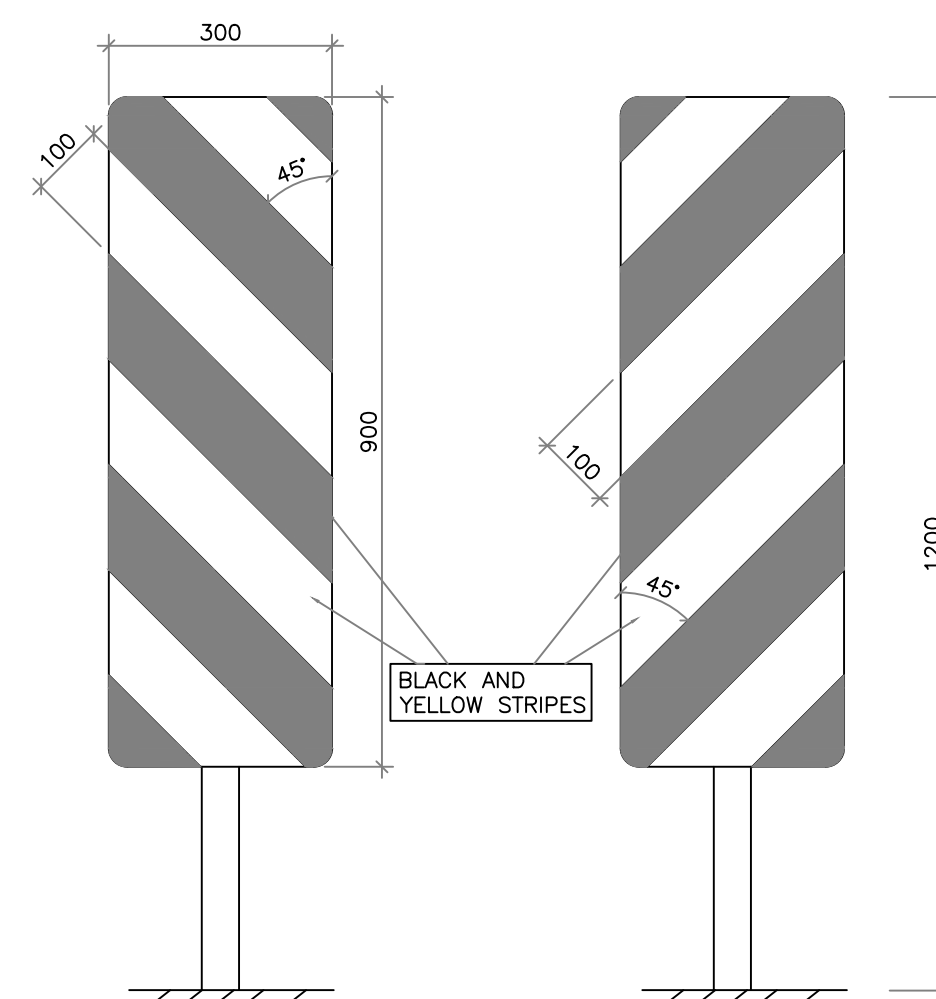
SIDE VIEW



SECTION Y-Y



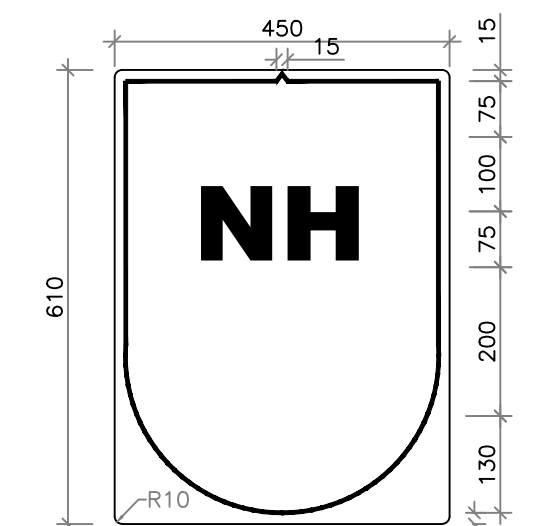
SECTION X-X



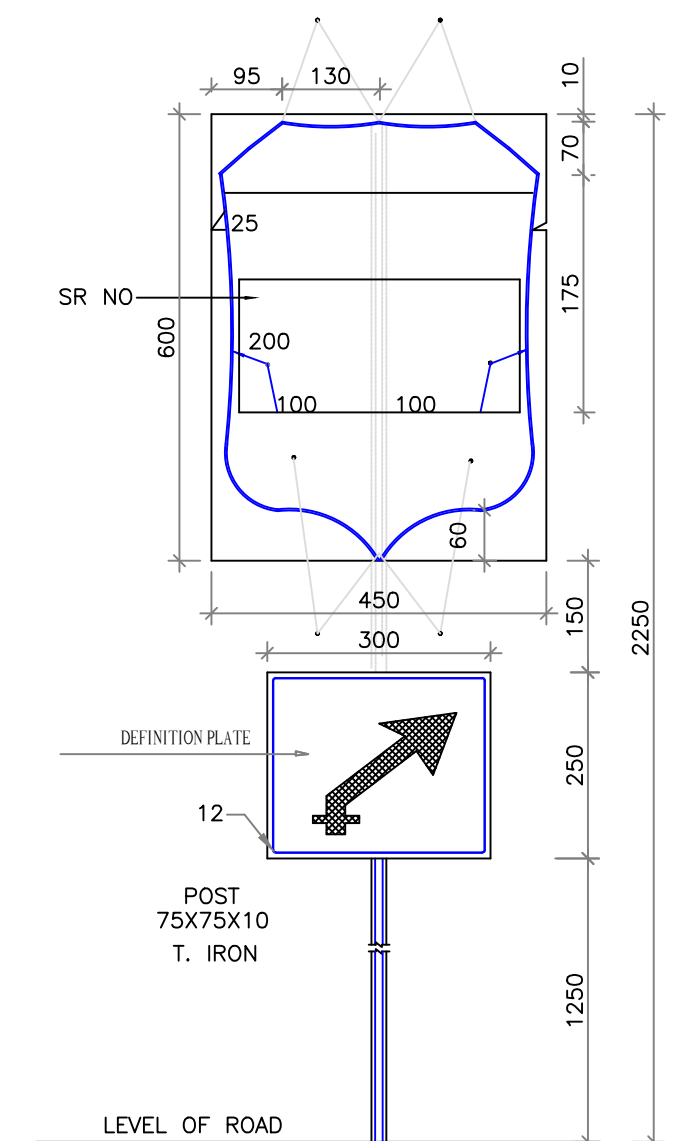
LEFT

RIGHT

OBJECT HAZARD MARKERS



NH ROUTE MARKER SIGN
IS-07

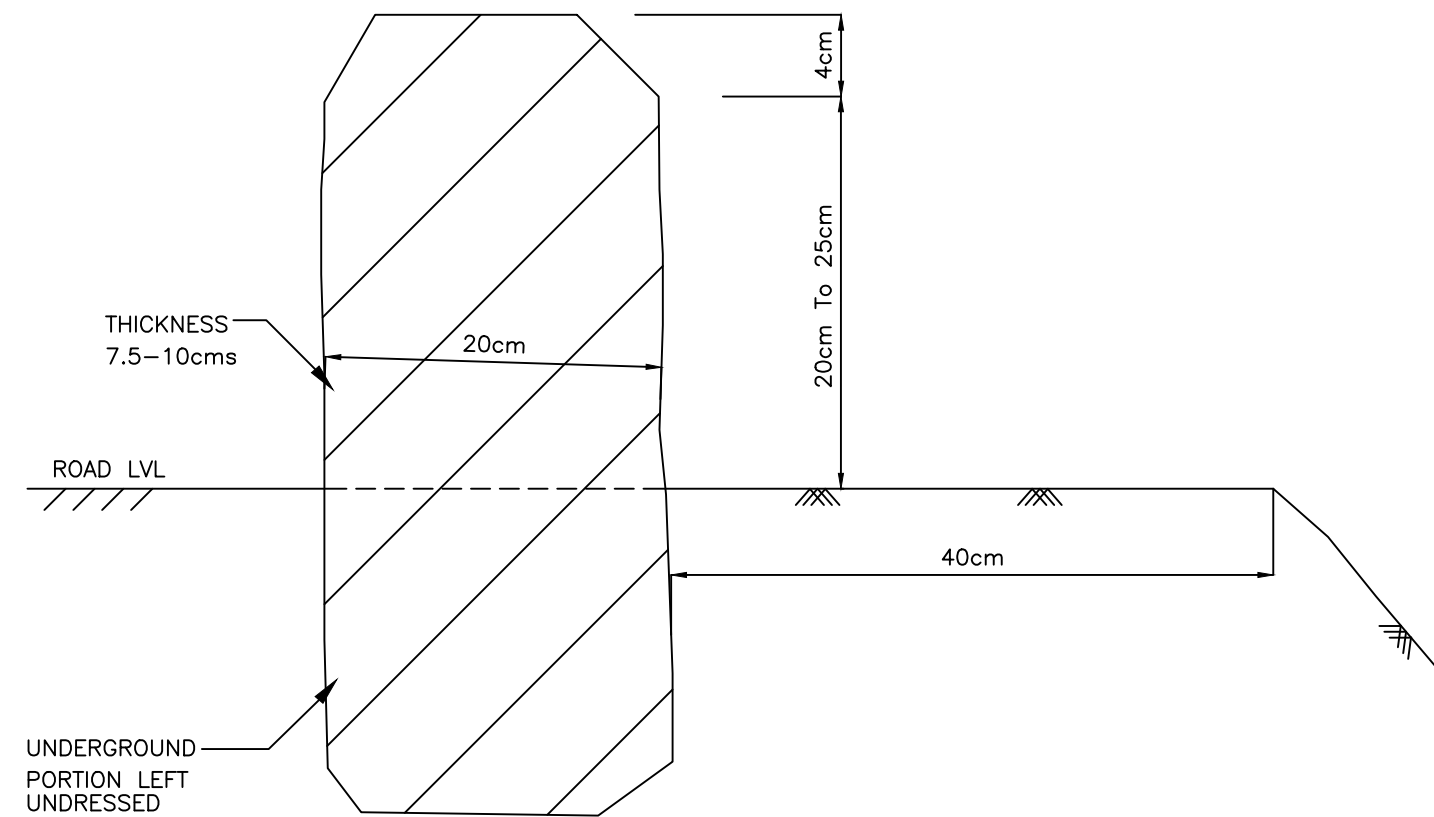


ASSEMBLY OF ROUTE MARK SIGN ARRANGEMENT FOR ERECTION OF STATE ROUTE MARKER SIGN

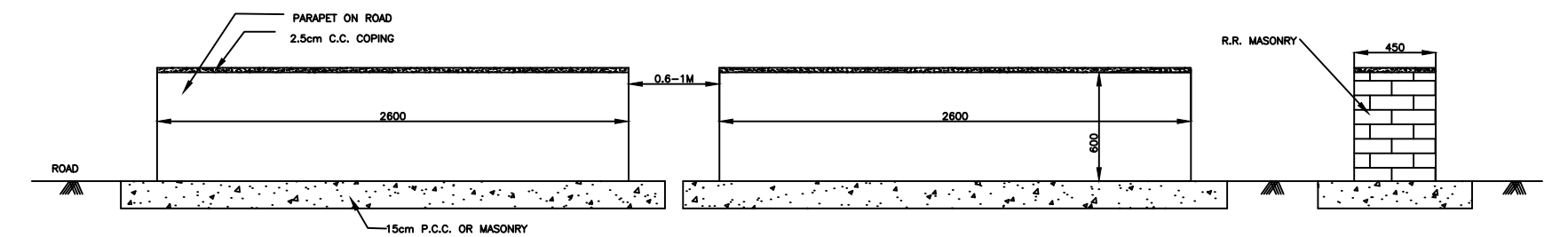
R.No.	Date	DESCRIPTION	<u>CLIENT:</u>  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	<u>DESIGN CONSULTANT:</u>  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	<u>PROJECT :</u> Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradaation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of WB".	Design By: RK	TITLE: CAUTIONARY / WARNING SIGNS	
R0	30-08-2024	Draft Detailed Report				Drawn By : M.K		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH		
						Approved By : VY	DWG NO: XPL/DSD/WB/KM-18.6/RS-03	
						SCALE : NTS		
							SHEET: 03 OF 03	DATE: Dec-2024



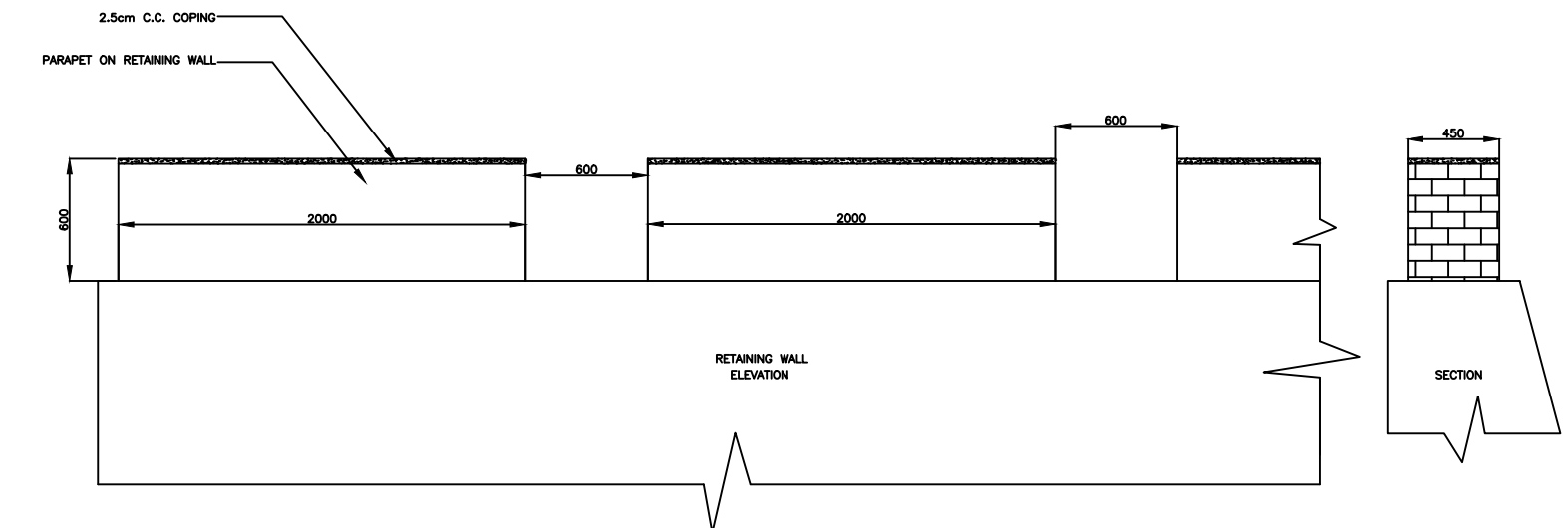
R.No.	Date	DESCRIPTION	<u>CLIENT:</u>	<u>DESIGN CONSULTANT:</u>	PROJECT :	Design By: RK	TITLE:			
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of WB”.	Drawn By : M.K	TYPICAL DETAILS OF OVERHEAD GANTRY			
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH				
						Approved By : VY			DWG NO: XPL/DSD/WB/KM-18.6/OG-01	
								SCALE : NTS	SHEET: 01 OF 01	DATE: Dec-2024



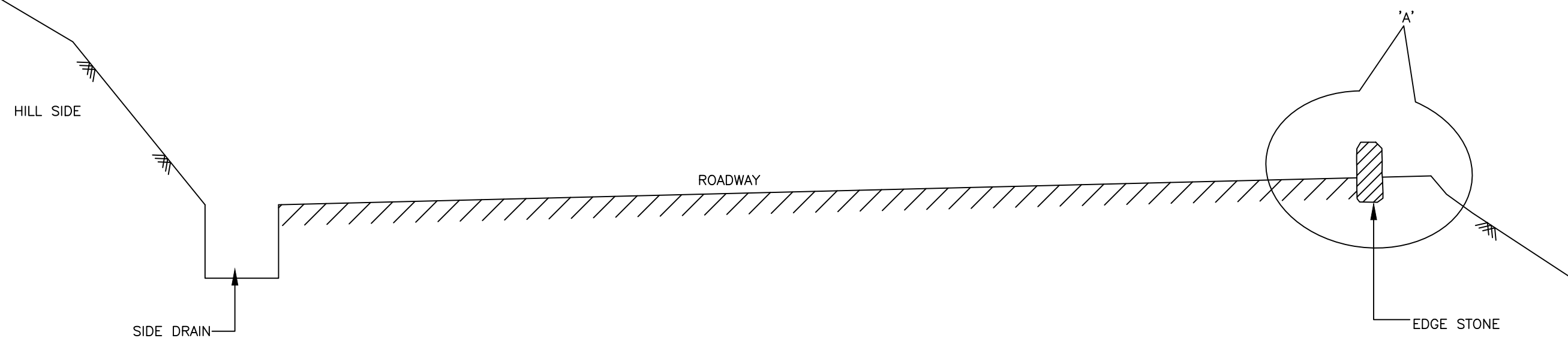
DETAIL 'A'



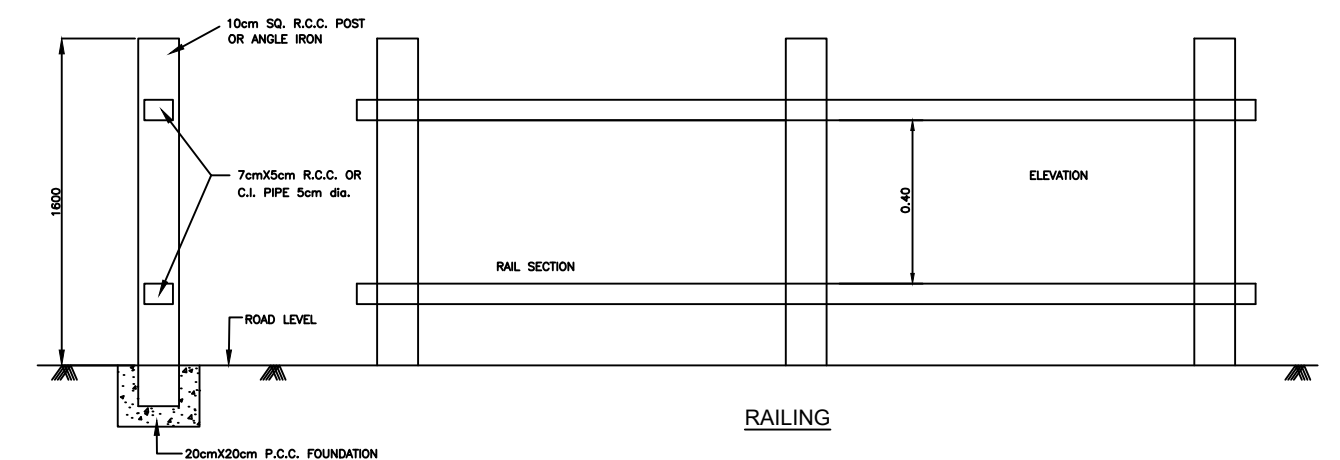
PARAPET ON ROAD



PARAPET ON RETAINING WALL



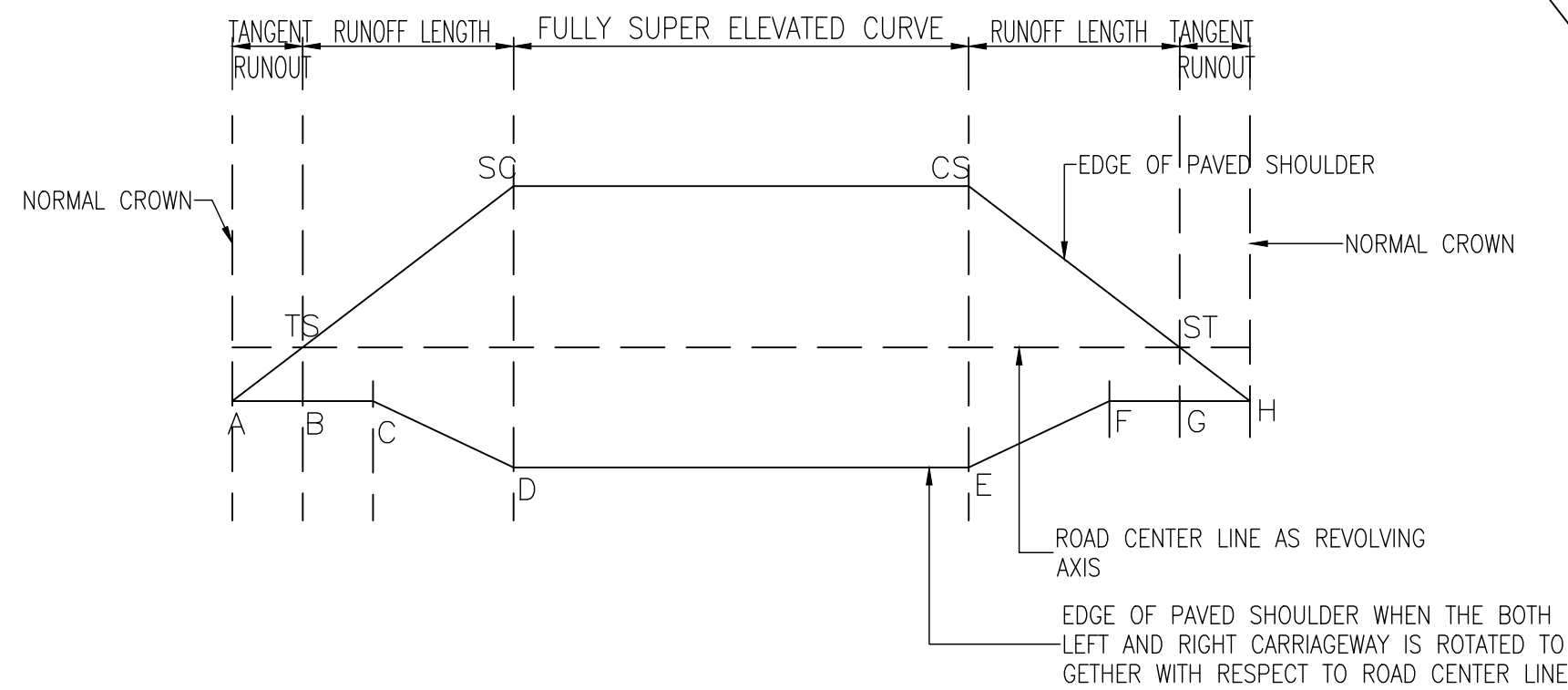
SECTION
EDGE STONE



RAILING

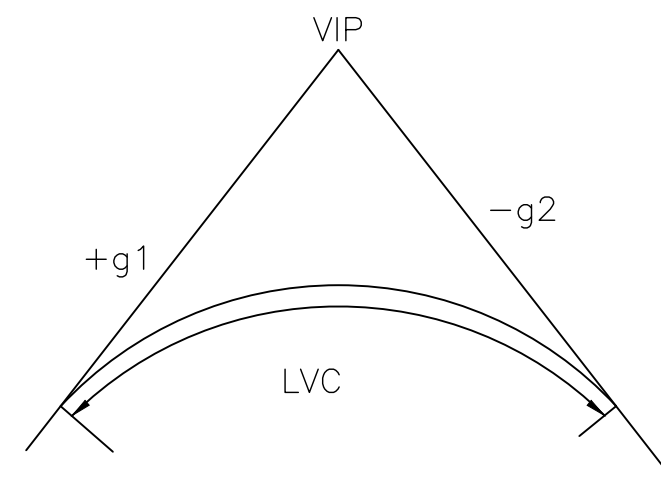
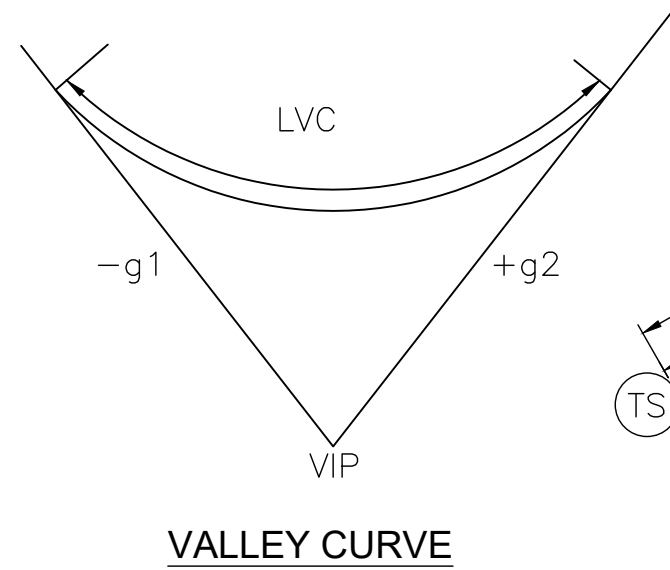
R.No.	Date	DESCRIPTION	<u>CLIENT:</u>	<u>DESIGN CONSULTANT:</u>	<u>PROJECT :</u>	Design By: RK	TITLE:		
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaion Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of WB”.	Drawn By : M.K	PARAPET, RAILING AND EDGE STONE		
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH			
						Approved By : VY			DWG NO: XPL/DSD/WB/KM-18.6/RL-01
							SCALE : NTS	SHEET: 01 OF 01	
								DATE: Dec-2024	

DETAILS OF SUPERELVATION



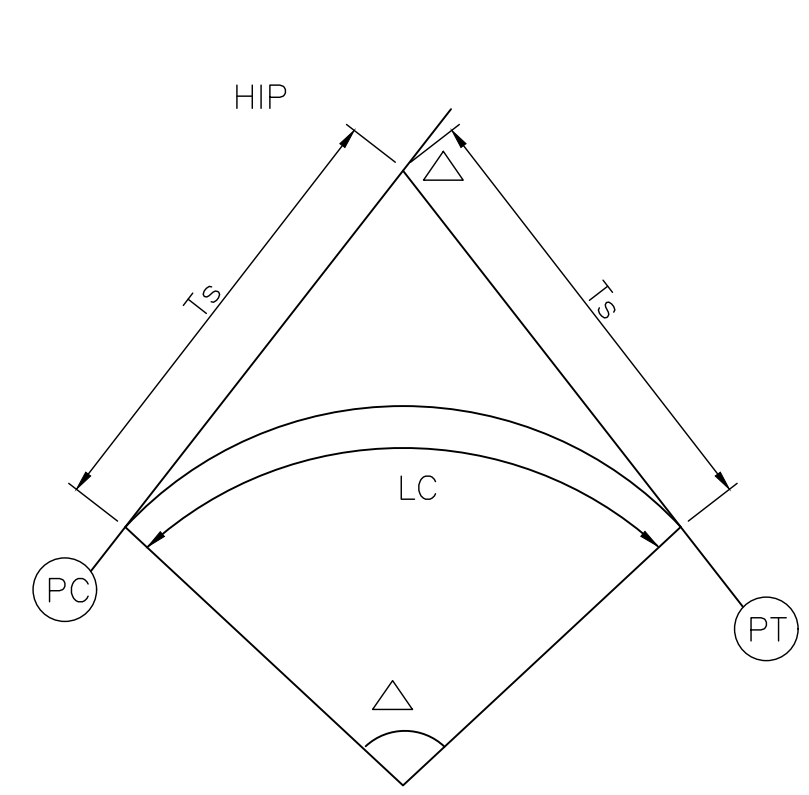
CIRCULAR CURVE WITH TRANSITION

DETAILS OF VERTICAL CURVE

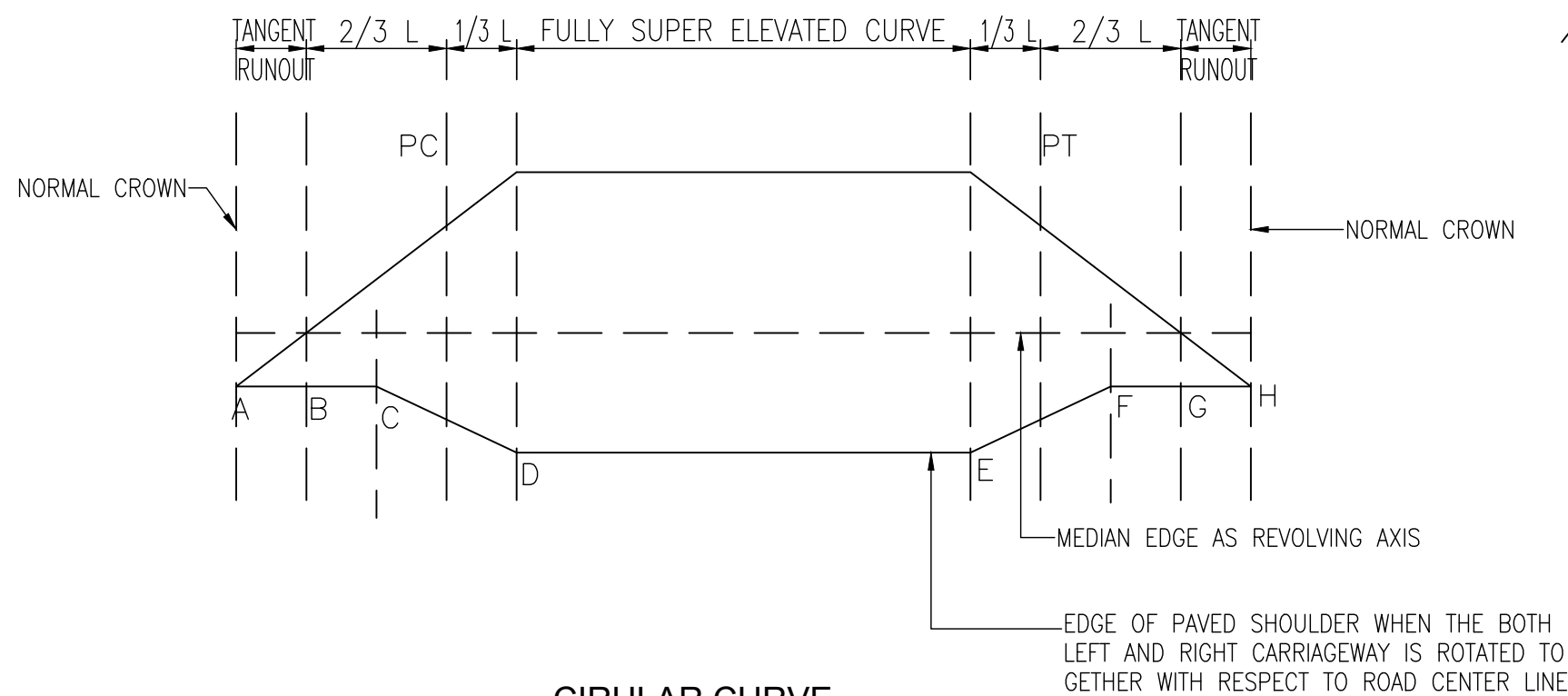


SUMMIT CURVE

DETAILS OF HORIZONTAL CURVE



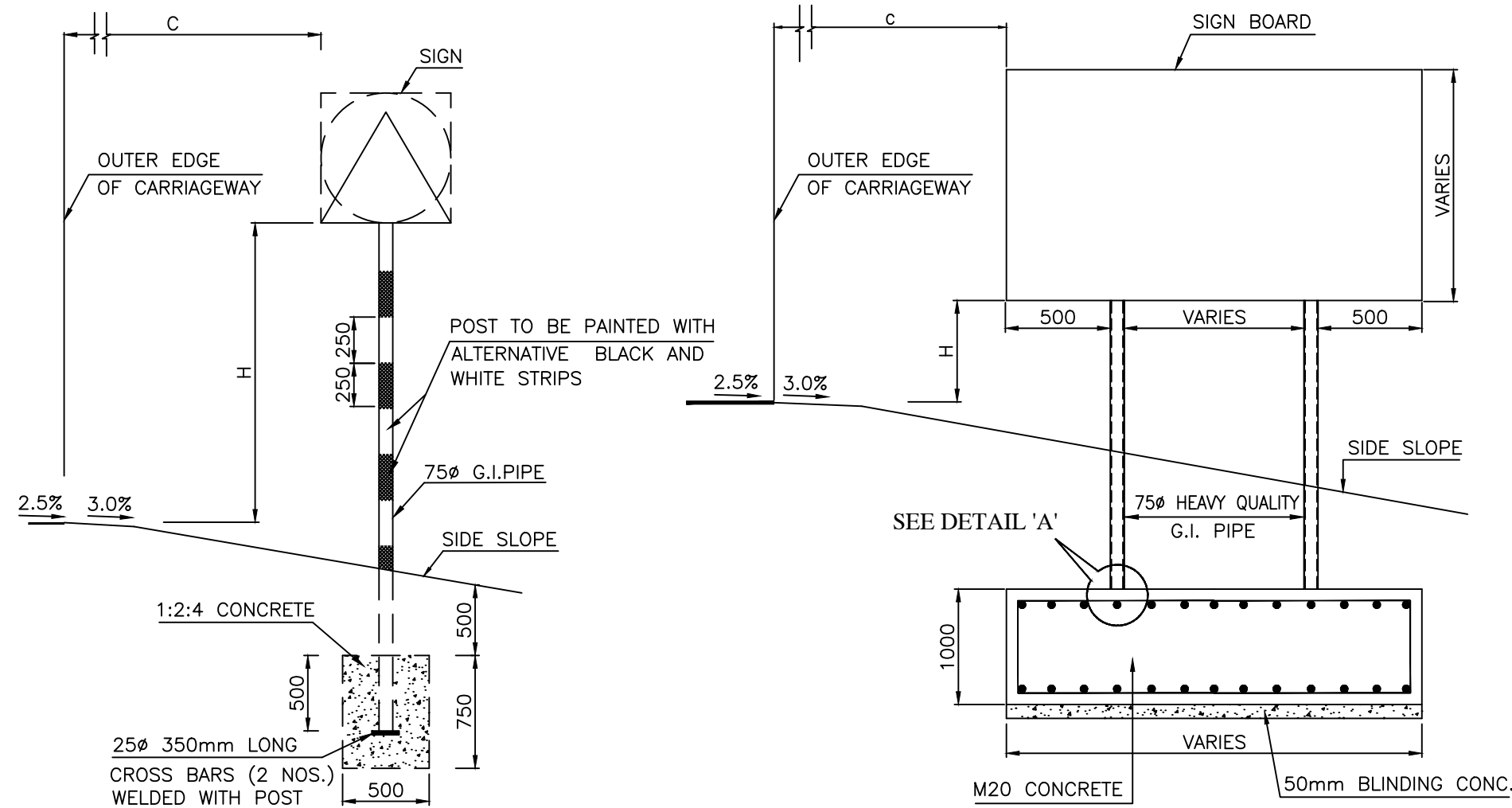
CIRCULAR CURVE



CIRULAR CURVE

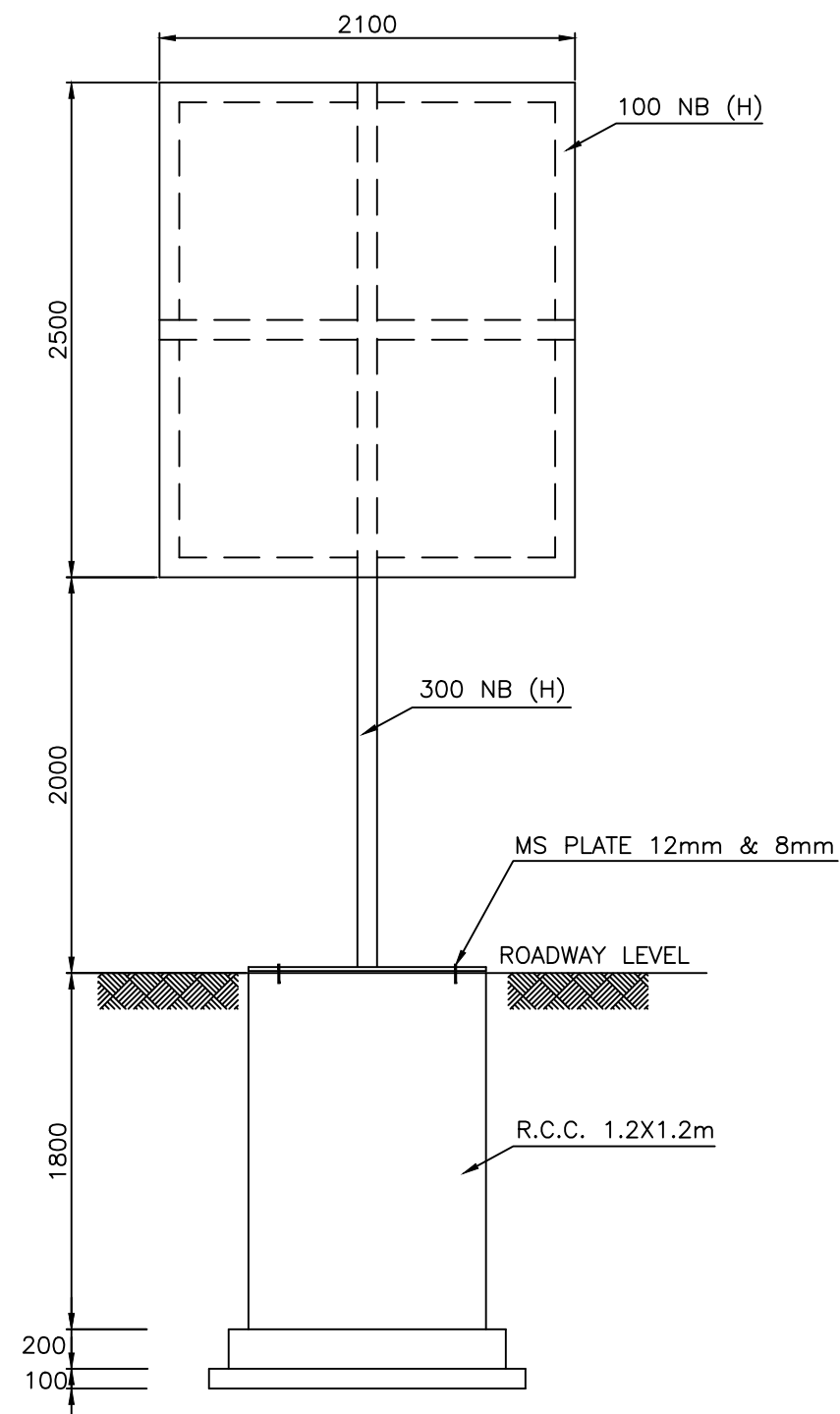
- | | | | |
|------|--------------------|-------------|-------------------------------------|
| (TS) | TANGENT TO SPIRAL | HIP | HORIZONTAL INTERSECTION POINT |
| (SC) | SPIRAL TO CURVE | LS | LENGTH OF TRANSITION |
| (CS) | CURVE TO SPIRAL | Ts | TANGENT DISTANCE |
| (ST) | SPIRAL TO TANGENT | $\triangle$ | TOTAL DEVIATION ANGLE |
| (PC) | POINT OF CURVATURE | $\oslash_s$ | DEVIATION ANGLE OF TRANSITION CURVE |
| (PT) | POINT OF TANGENT | LVC | LENGTH OF VERTICAL CURVE |
| | | g1 | VERTICAL GRADIENT |
| | | VIP | VERTICAL INTERSECTION POINT |

R.No.	Date	DESCRIPTION	<u>CLIENT:</u>	<u>DESIGN CONSULTANT:</u>	<u>PROJECT :</u>	Design By: RK	TITLE:			
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of WB”.	Drawn By : M.K	DETAILS OF CURVE & SUPER ELEVATION			
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH				
						Approved By : VY			DWG NO: XPL/DSD/WB/KM-18.6/CU-01	
						SCALE : NTS				

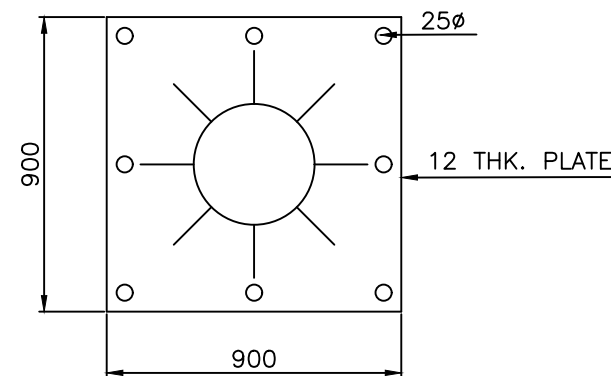


DETAILS FOR SIGN WITH SINGLE SUPPORT

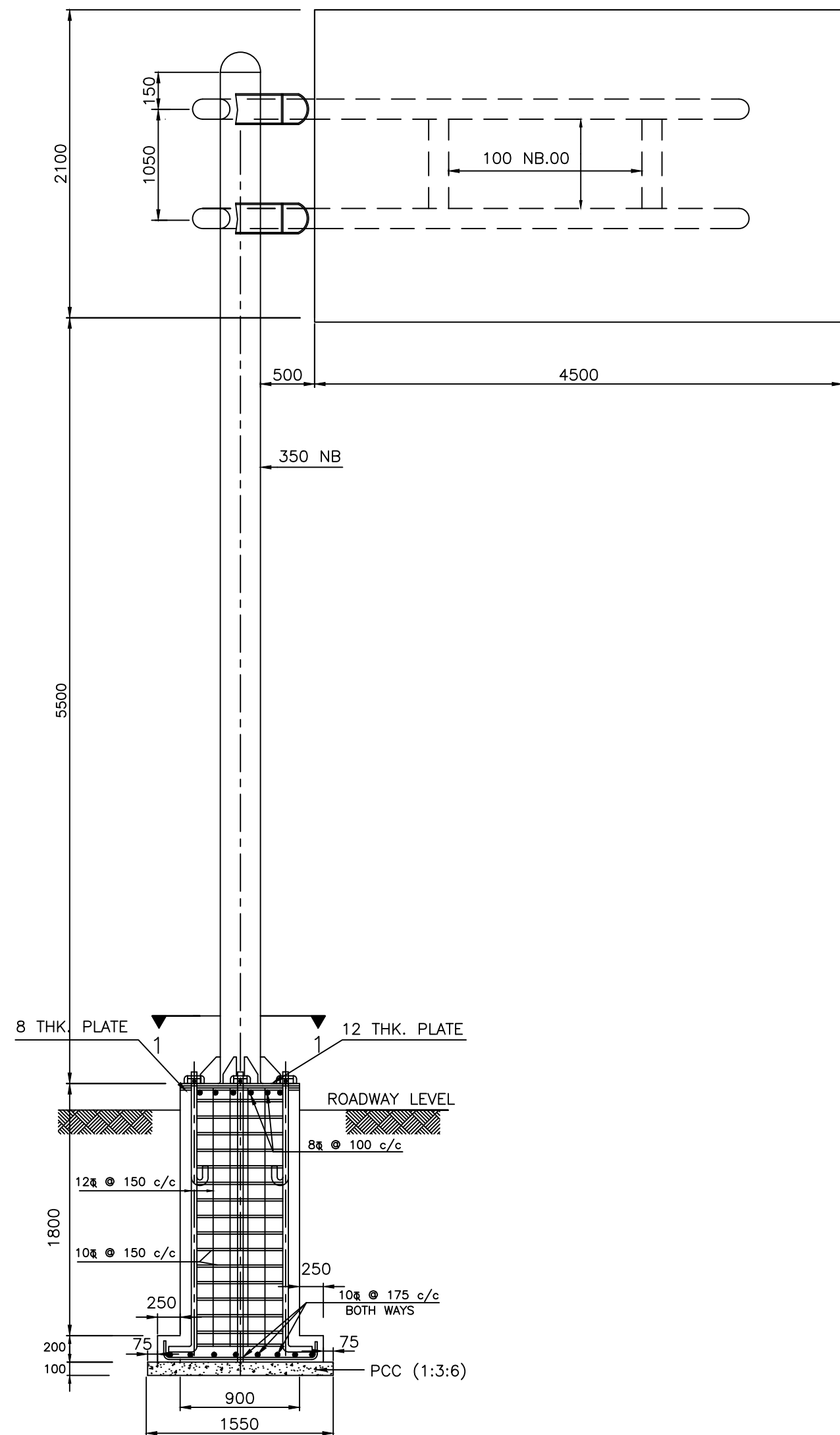
DETAILS FOR SIGN WITH DOUBLE SUPPORT



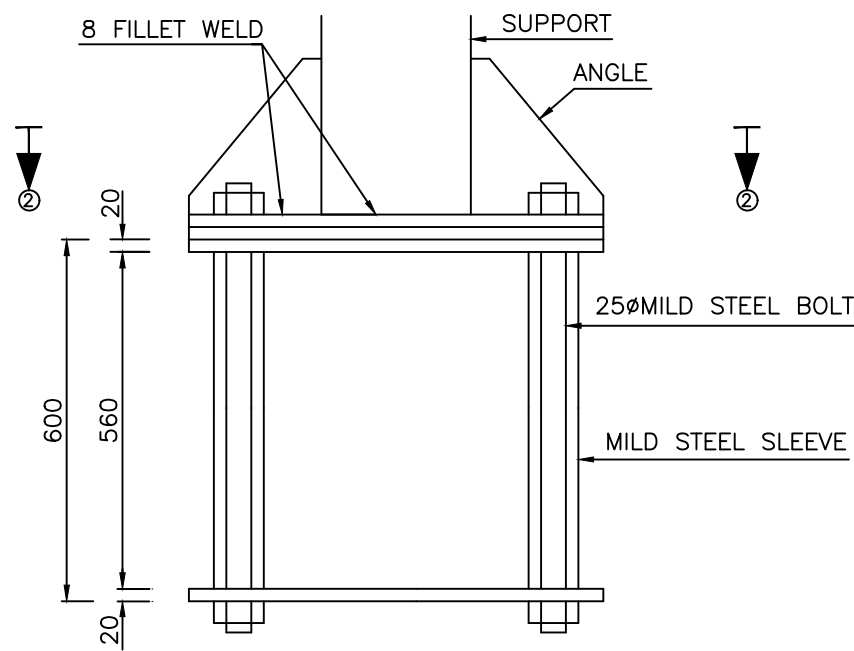
DETAILS OF SIGN POST



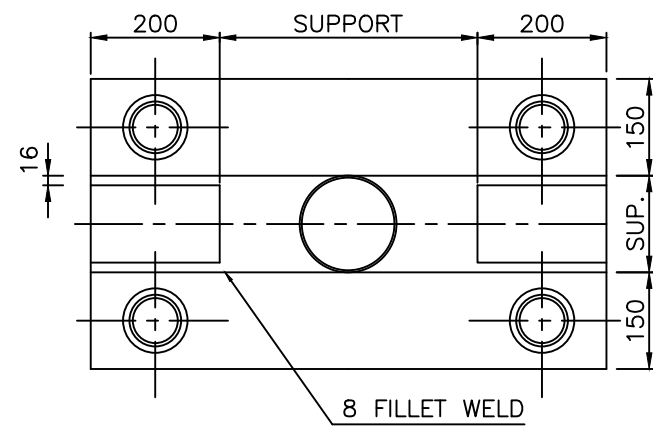
SECTION 1-1



DETAILS FOR CANTILEVER TYPE OVERHEAD SIGN

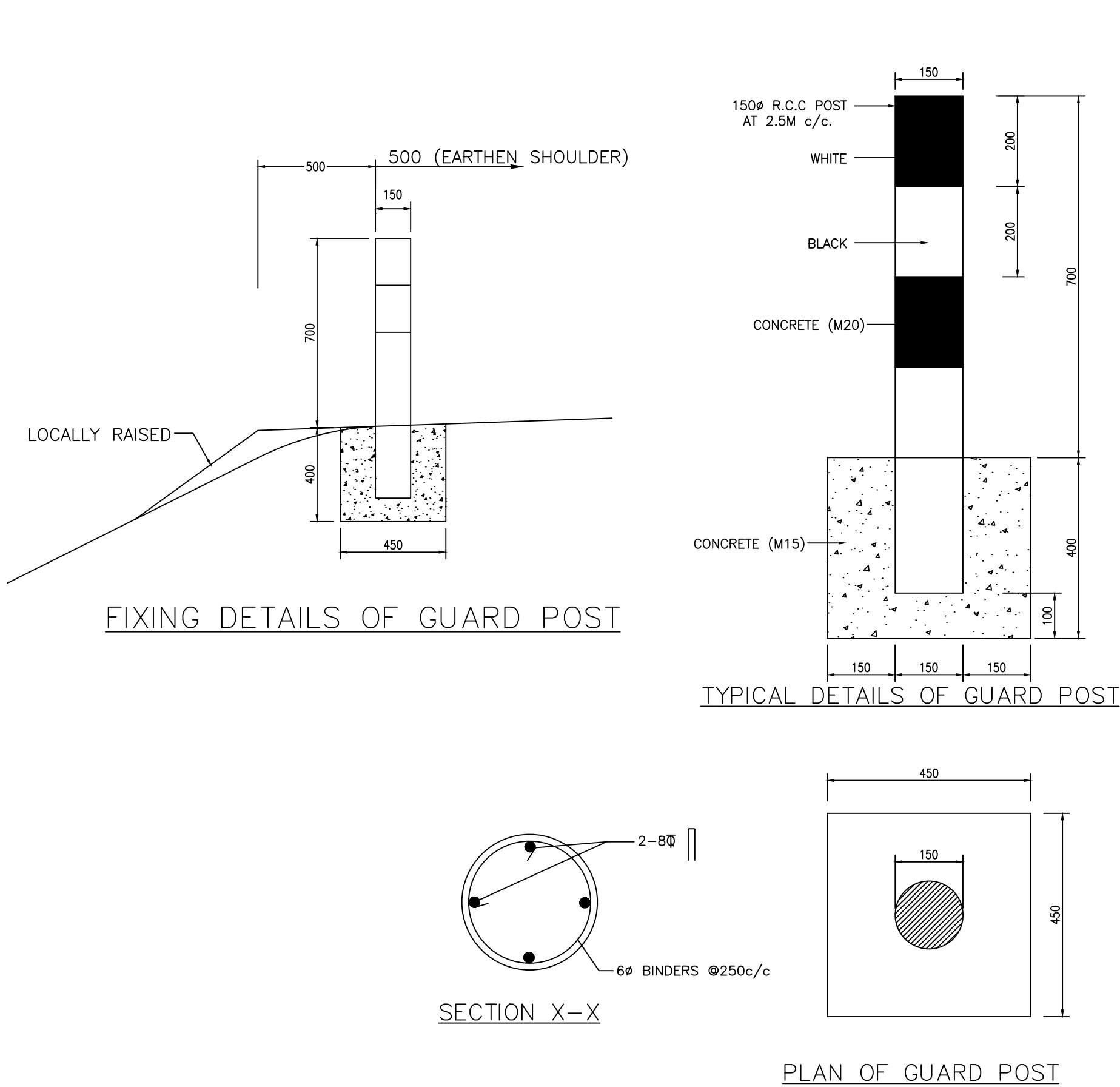


DETAIL-A



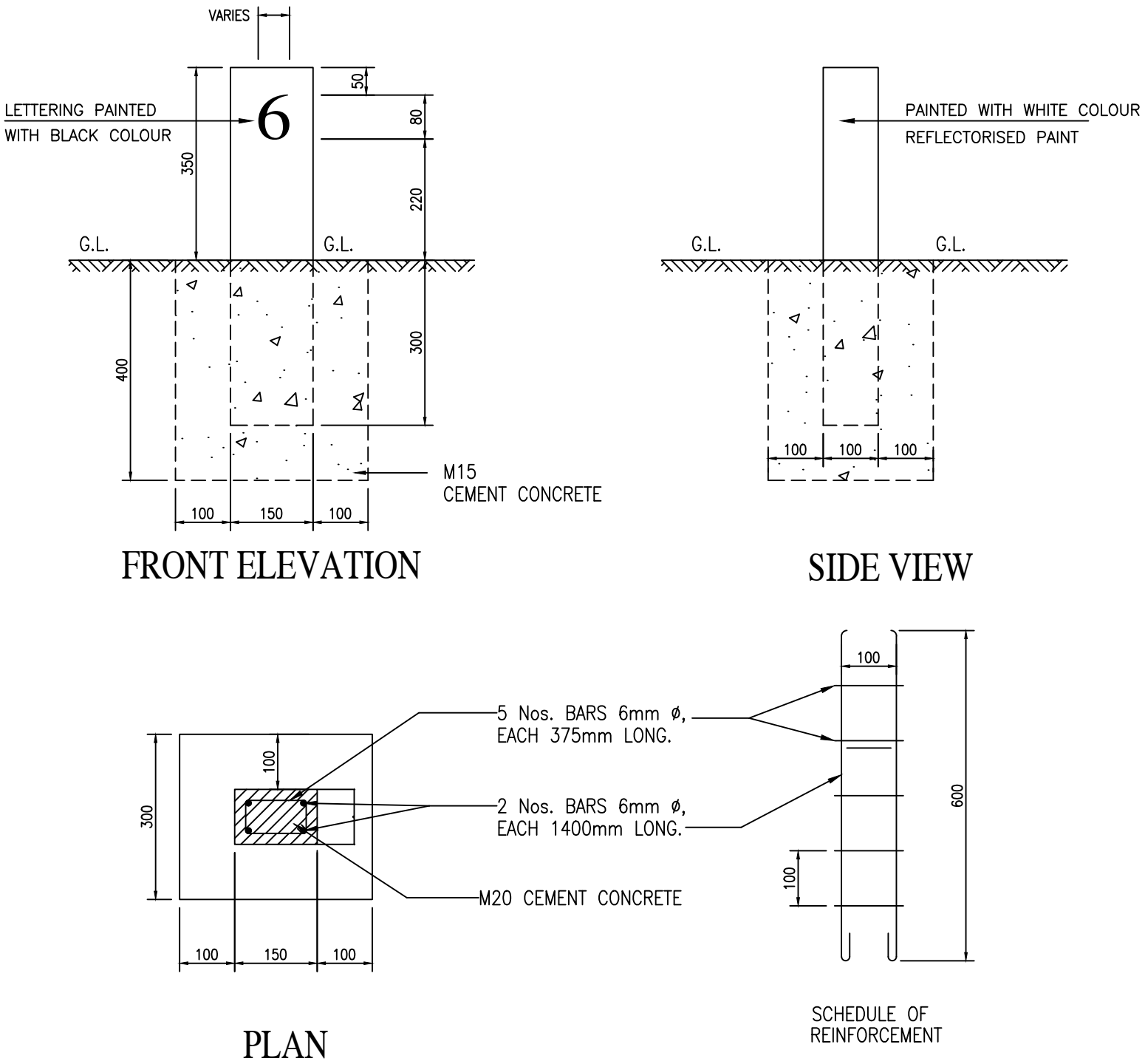
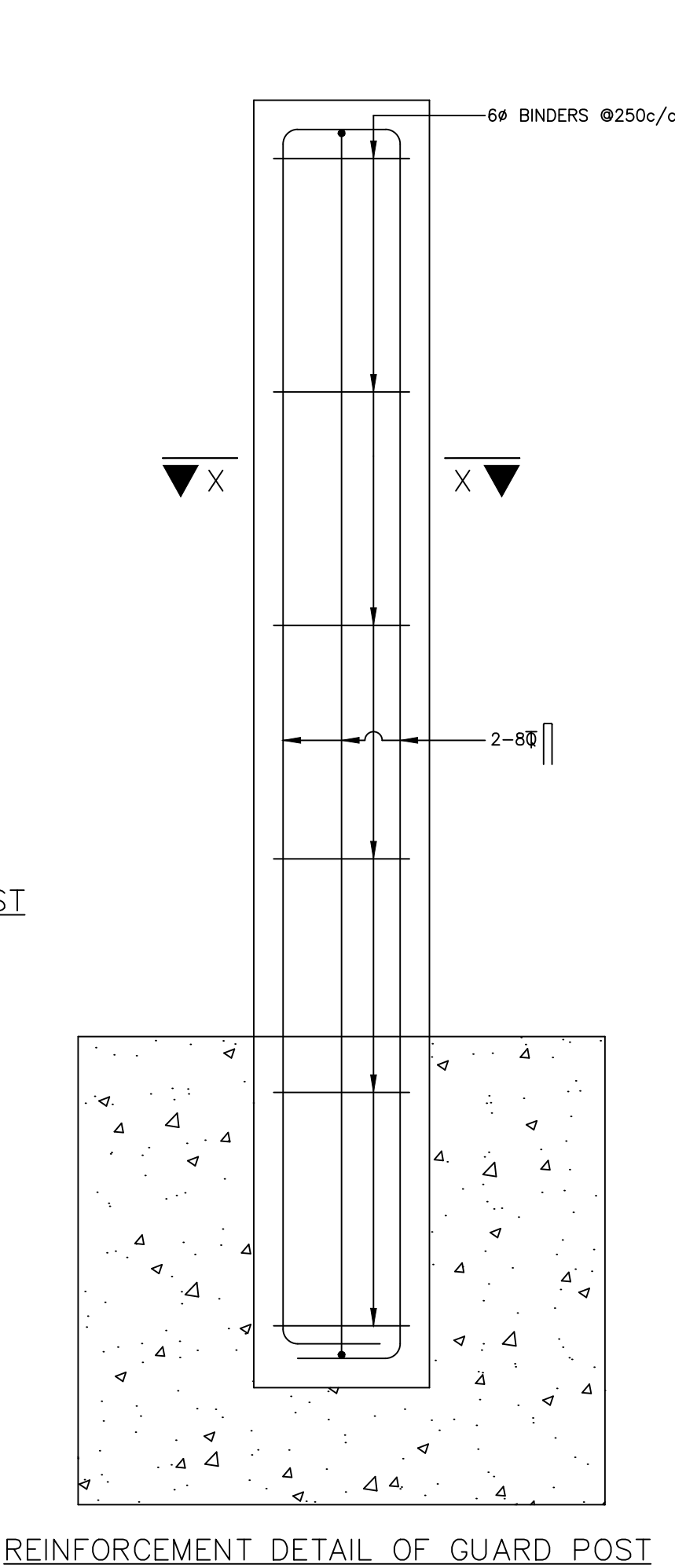
SECTION 2-2

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:
R0	30-08-2024	Draft Detailed Report	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Memok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of WB".	Drawn By : M.K	TYPICAL CANTILEVER TYPE OVERHEAD SIGN
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH	
						Approved By : VY	DWG NO: XPL/DSD/WB/KM-18.6/CU-01
						SCALE : NTS	SHEET: 01 OF 01
							DATE: Dec-2024



NOTES:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE MENTIONED.
2. FOR EXACT DETAILS OF W-BEAM, REFER MANUFACTURER DRAWING.
3. W-BEAM BARRIER IS INSTALLED WHERE EMBANKMENT HEIGHT IS MORE THAN 6 METRES & AT IMMEDIATE BRIDGE APPROACHES.
4. R.C.C. GUARD POSTS IS TO BE INSTALLED AS PER THE INSTRUCTIONS OF ENGINEER.



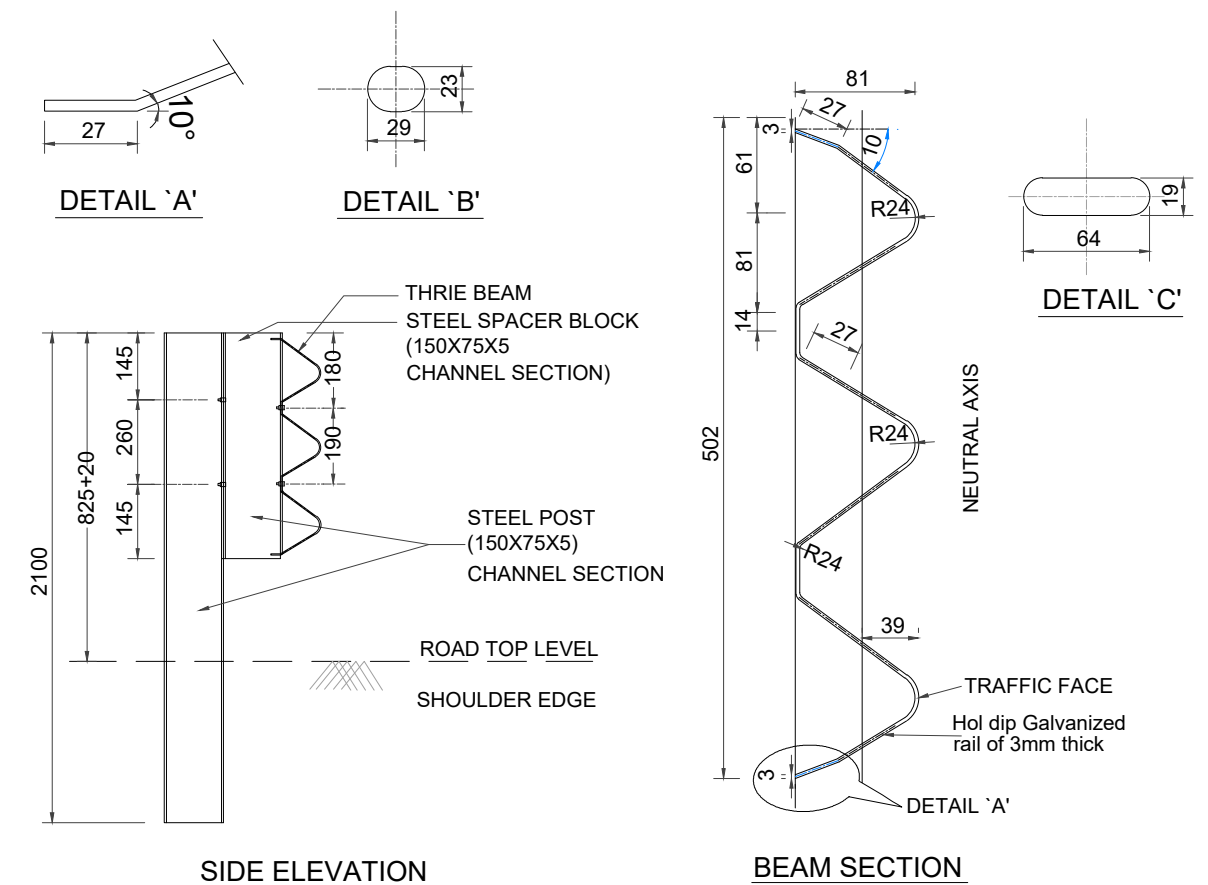
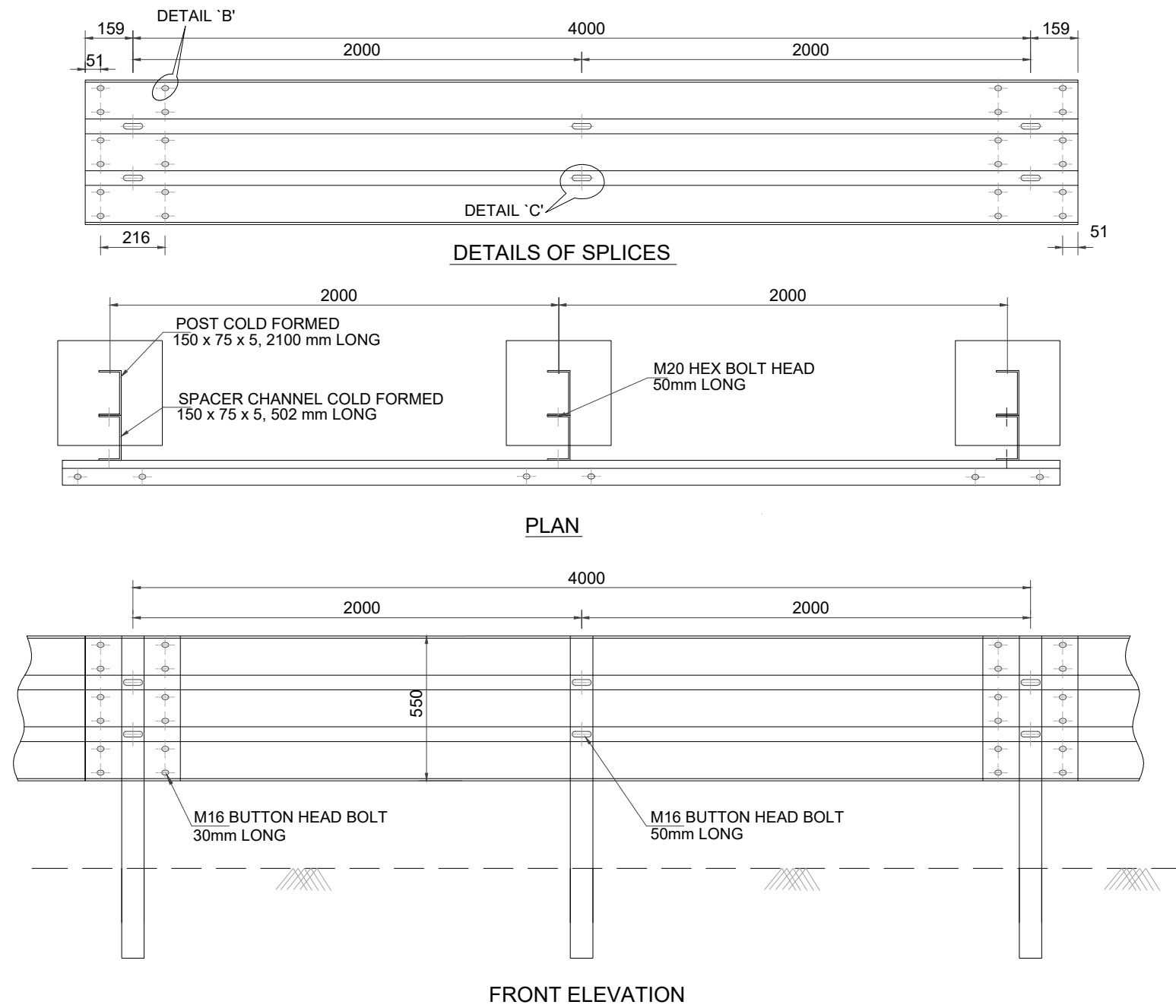
TYPICAL DESIGN FOR 200m STONES

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFLECTORISED PAINT SHALL BE IN ACCORDANCE WITH CL.803.5 OF M.O.R.T & H SPEC.
3. FOR TYPE & STYLE SIZE OF LETTERING RELEVANT IRC CODE OF PRATICE SHALL BE REFERED.
4. LETTERING IS DONE WITH APPROVED QUALITY BLACK ENAMEL PAINT USING STENCIL

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) the States Of WB”.	Drawn By : M.K	TYPICAL DRAWING OF KM STONE
R1	21-09-2024	Revised Draft Detailed Report				Checked By : AH	
						Approved By : VY	DWG NO: XPL/DSD/WB/KM-18.6/KM-02
						SCALE : NTS	SHEET: 02 OF 02
							DATE: Dec-2024

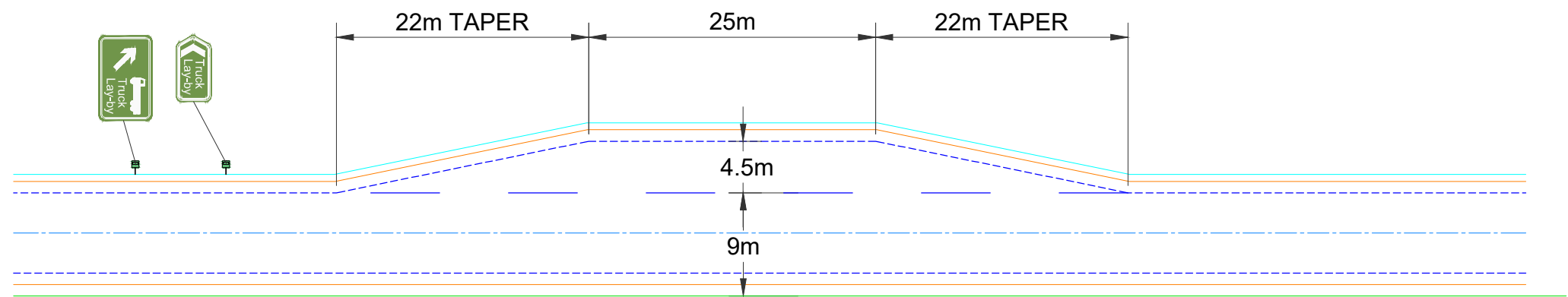
DETAILS OF THRIE-BEAM CRASH BARRIERS



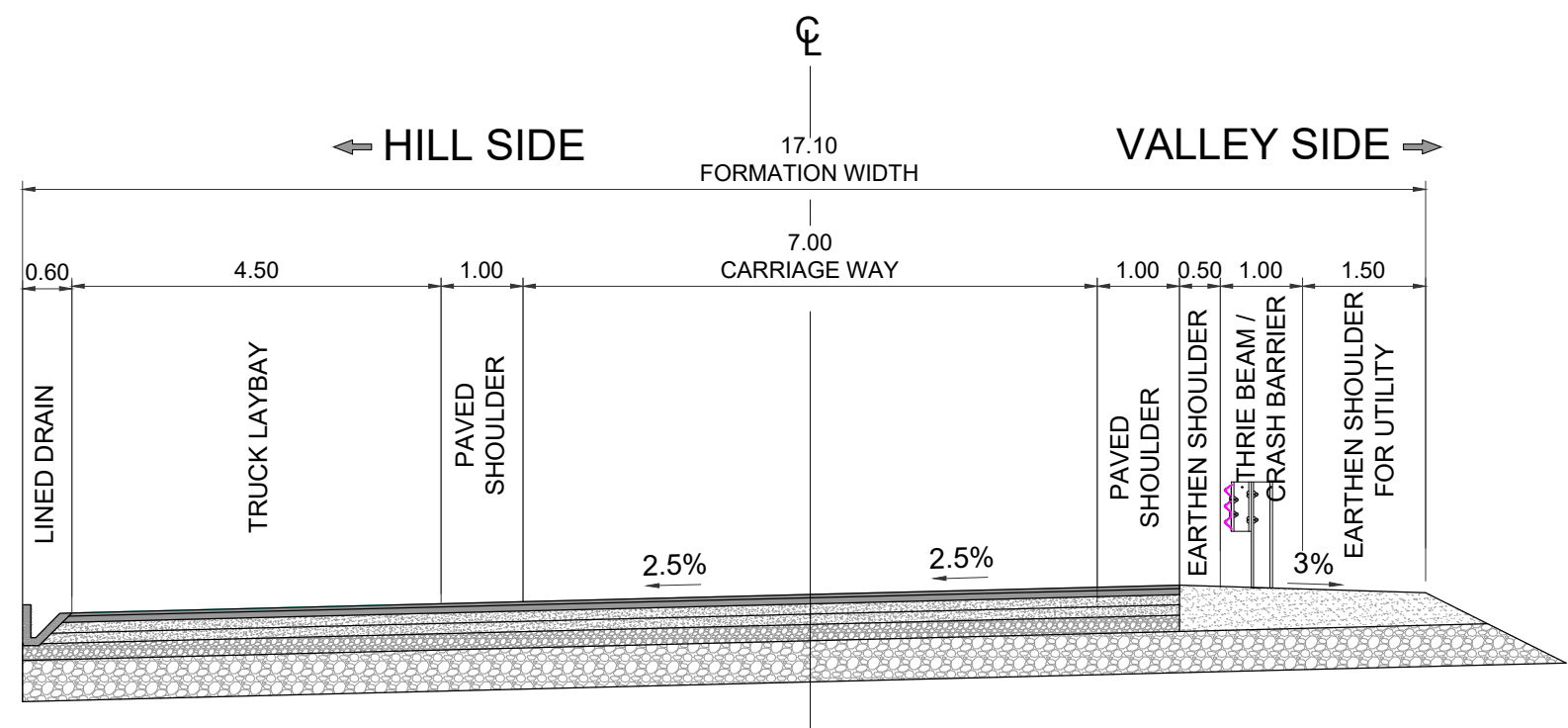
NOTE:

1. HEIGHT OF POSTS SHOULD BE 825mm LONG ABOVE THE FINISHED ROAD LEVEL.
2. SPACING OF POSTS SHOULD BE 2.0m C/C.
3. POST CONSISTS OF FORMED CHANNEL OF SIZE 150 x 75 x 5, 825mm LONG ABOVE GROUND LVL.
4. SPACER CONSISTS OF FORMED CHANNEL OF SIZE 150 x 75 x 5, 502mm LONG.
5. BUTTON HEAD BOLTS M16 x 30mm LONG, 12 Nos FOR THE SPlicing OF THE W PROFILE AT EACH LOCATION.
6. BUTTON HEAD BOLTS M16 x 50mm LONG, 2 Nos AT THE CONNECTION OF THE THRIE BEAM TO SPACER.
7. HEX HEAD BOLTS M20 x 50mm LONG , 2 Nos AT THE CONNECTION OF THE SPACER TO POST.
8. THE BASE MATERIAL OF THE CORRUGATED BEAM SHALL COMPLY TO FOLLOWING MECHANICAL PROPERTIES:-
 - I. TENSILE STRENGTH, MIN=483 MPA.
 - II. ELONGATION, in 2 inches, MIN = 12%
 - III.YIELD, MIN=345 MPA.
9. ALL MEMBERS OF THE SYSTEM SHOULD BE HOT DIPPED GALVANIZED AND TO HAVE A MINIMUM COATING OF 550g/Sq m, EACH FACE IN CONFORMANCE TO M.O.R.T & H. SPECIFICATIONS (CLAUSE 810).

Rev. No	Date	Revision Details	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:			
R0	30-08-2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower B, Ithum, Plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existin Carriageway into 2L+PS Configuration From Lavamore (Km 61.100) To Start Of Pedong Bypass (Km 79.700) in the States Of West Bengal”.	DRN BY: MK	Thrie Beam / Crash Barrier			
R1	21-09-2024	Revised Draft Detailed Project Report				CHK BY: AH				
						APR BY: VY				
						SCALE: NTS				
									DWG NO: XPL/DSD/WB/KM18.6/CB/01	
									SHEET: 01 OF 01	DATE: Dec-2024



TRUCK LAYBAY



TYPICAL CROSS SECTION
TRUCK LAYBAY

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:	
R0	30-08-2024	Draft Detailed Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Lavamore (Km 61.10) To Start Of Pedong Bypass (Km 79.700) And From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim and WB".	DRN BY: MK	Lavamore (61+100) To Pedong Bypass (79+520) Truck Laybay	
R1	21-09-2024	Revised Draft Detailed Report				CHK BY: AH		
R2	15-10-2024	Revised As Per Observation				APR BY: VY		
						DWG NO: XPL/DSD/WB/KM39.2/TB/01		
						SCALE: NTS		
						SHEET: 01 OF 01	DATE: Dec-2024	