

**NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED
(MINISTRY OF ROAD TRANSPORT & HIGHWAYS)
GOVT. OF INDIA**

Consultancy Services for Preparation of DPR for Development of Economic Corridors, Inter Corridors and Feeder Routes to Improve the Efficiency of Freight Movement in India under Bharatmala Pariyojana



Lot-1 : Package-IV

(Section-1: Km 0+800– Km 27+700 of NH515)

**DRAFT DETAILED PROJECT
REPORT**

**Volume – IX
Drawings**

MARCH 2023

Rev. – R1

Voyants Solutions Pvt. Ltd

Corporate Office:

403, 4th Floor, Park Centra,
Sector-30, NH-8

Gurugram-122001, Haryana, India

CIN- U74140HR2004PTC046918

Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in,

www.voyants.in



Voyants Solutions Pvt. Ltd

Regional Office:

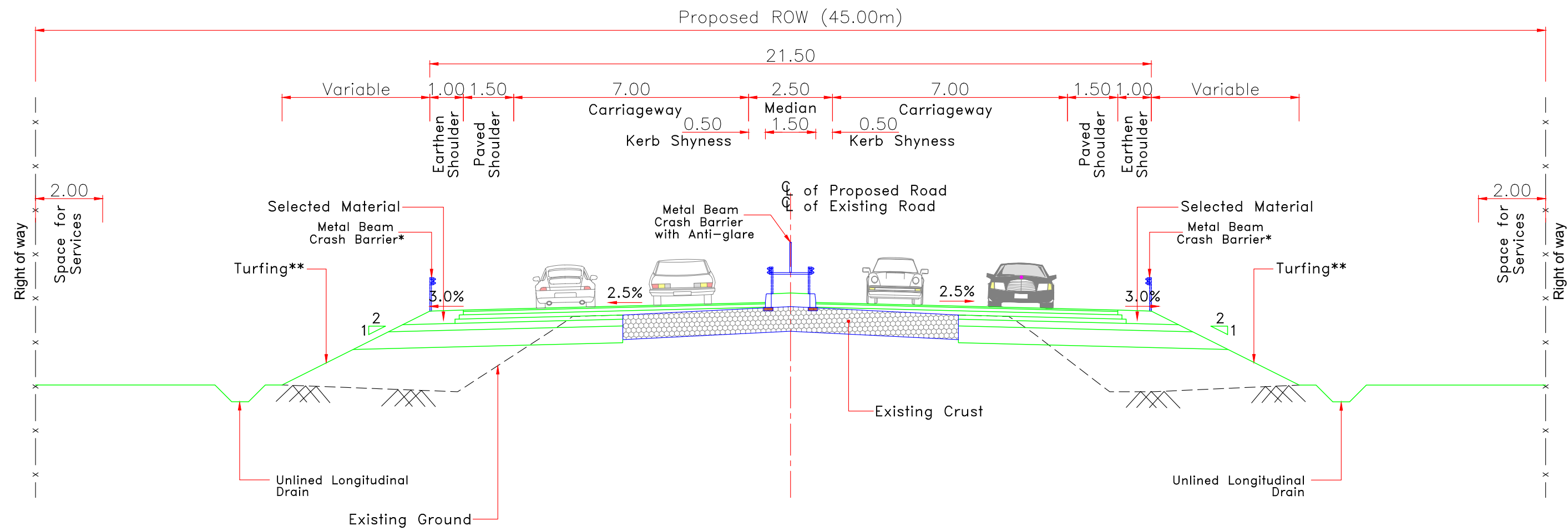
Jindal Towers, Block-A, 4th Floor,
21/1A/3, Darga Road

Kolkata – 700 017

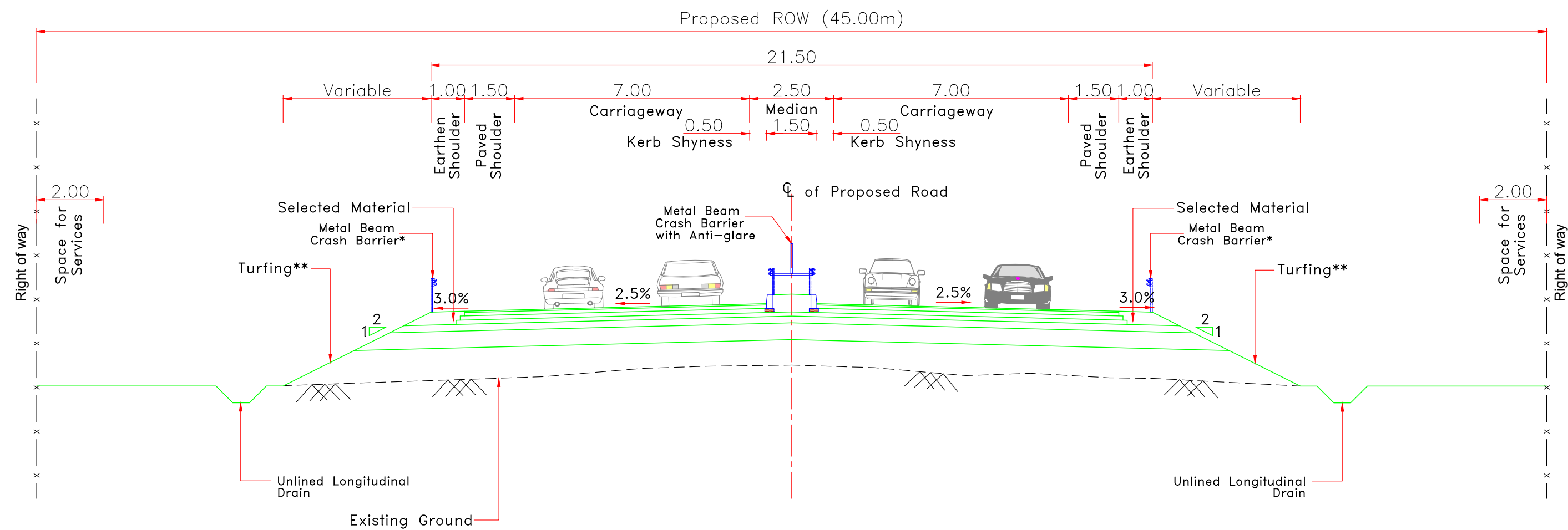
Tele: 033- 40519300/ 40063240/ 300070350

ROAD WORKS

||| **Typical Cross Section & Schedule** |||



TYPE-01 : TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)



TYPE-01A : TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN BYPASS / REALIGNMENT STRETCHES

Note:
 1. All dimensions are in meter unless otherwise specified.
 2. * Applicable where embankment height is >3.0m
 3. ** Applicable where <3.0m embankment height Turfing with sods of perennial turf forming grass.

CLIENT :



PROJECT :

CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDOR, INTER CORRIDOR AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE II)

DESIGN CONSULTANT:

VOYANTS SOLUTIONS PVT LTD.
 403, 4th Floor, Park Centra,
 Sector-30, NH-8
 Gurugram-122001, Haryana, India
 CIN- U74140HR2004PTC046918
 Ph: 0124-4598200, Fax: 0124-4019051,
 E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
SCALE :	1:250	SHEET SIZE	A2

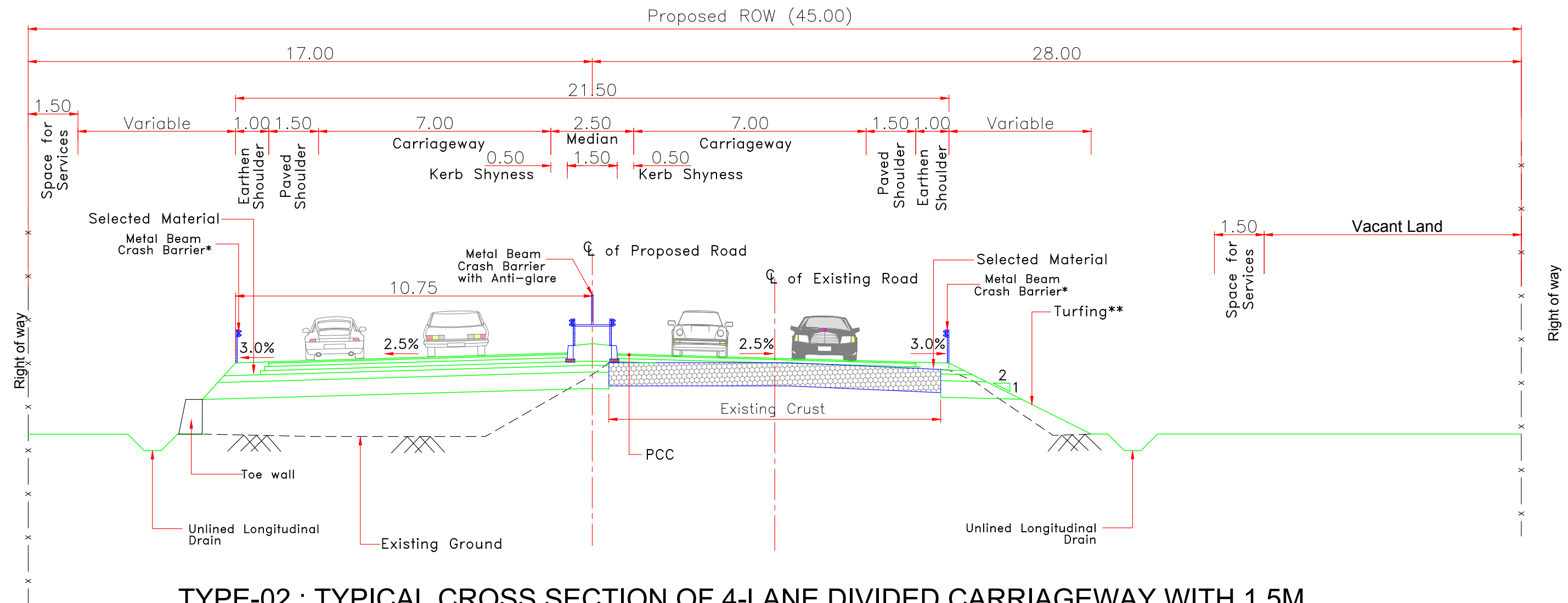
TITLE :

Typical Cross Section

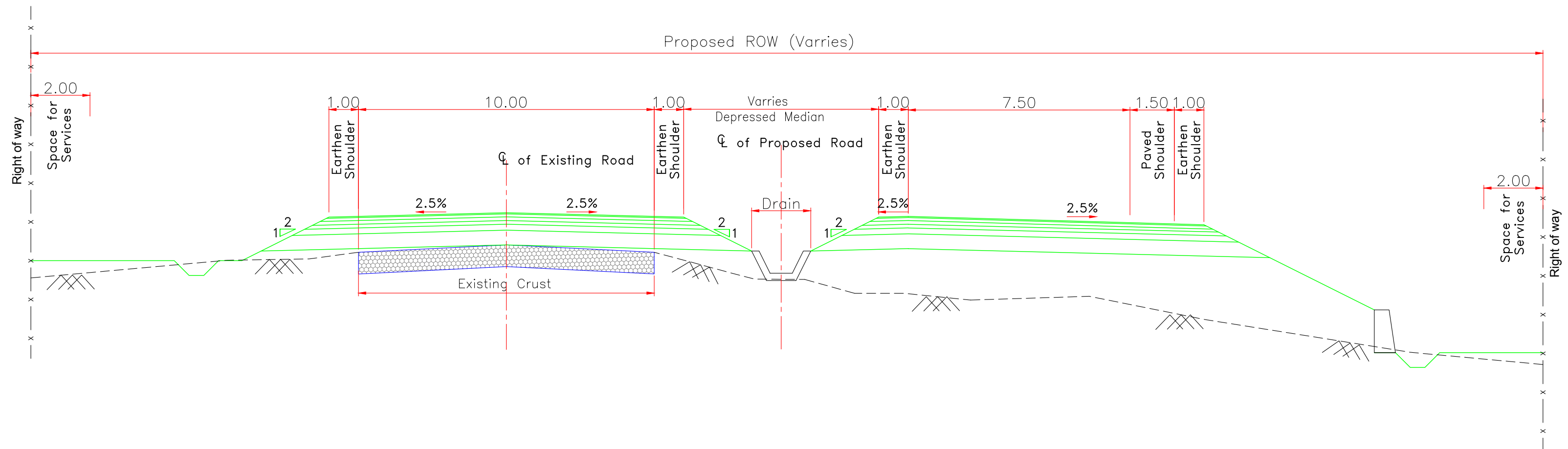
DRG. No. :
 VSPL/1718-082/DPR/PKG-4/TCS- 01

REVISION:R1

March 2023



TYPE-02 : TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)



TYPE-02A : TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)

Note:
 1. All dimensions are in meter unless otherwise specified.
 2. * Applicable where embankment height is >3.0m
 3. ** Applicable where <3.0m embankment height Turfing with sods of perennial turf forming grass.

CLIENT :

NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.
 (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
 GOVERNMENT OF INDIA

PROJECT :

CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDOR, INTER CORRIDOR AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE II)

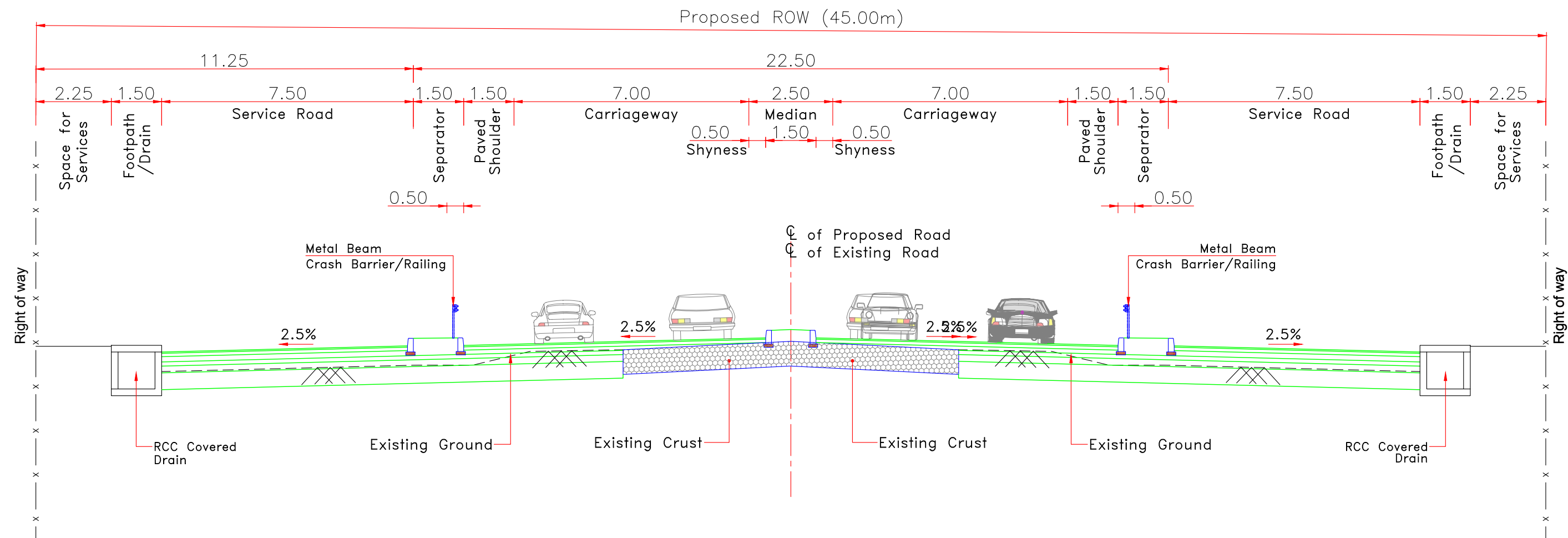
DESIGN CONSULTANT:

VOYANTS SOLUTIONS PVT LTD.
 403, 4th Floor, Park Centra,
 Sector-30, NH-8
 Gurugram-122001, Haryana, India
 CIN: U74140HR2004PTC046918
 Ph: 0124-4598200, Fax: 0124-4019051,
 E-mail: info@voyants.in, www.voyants.in

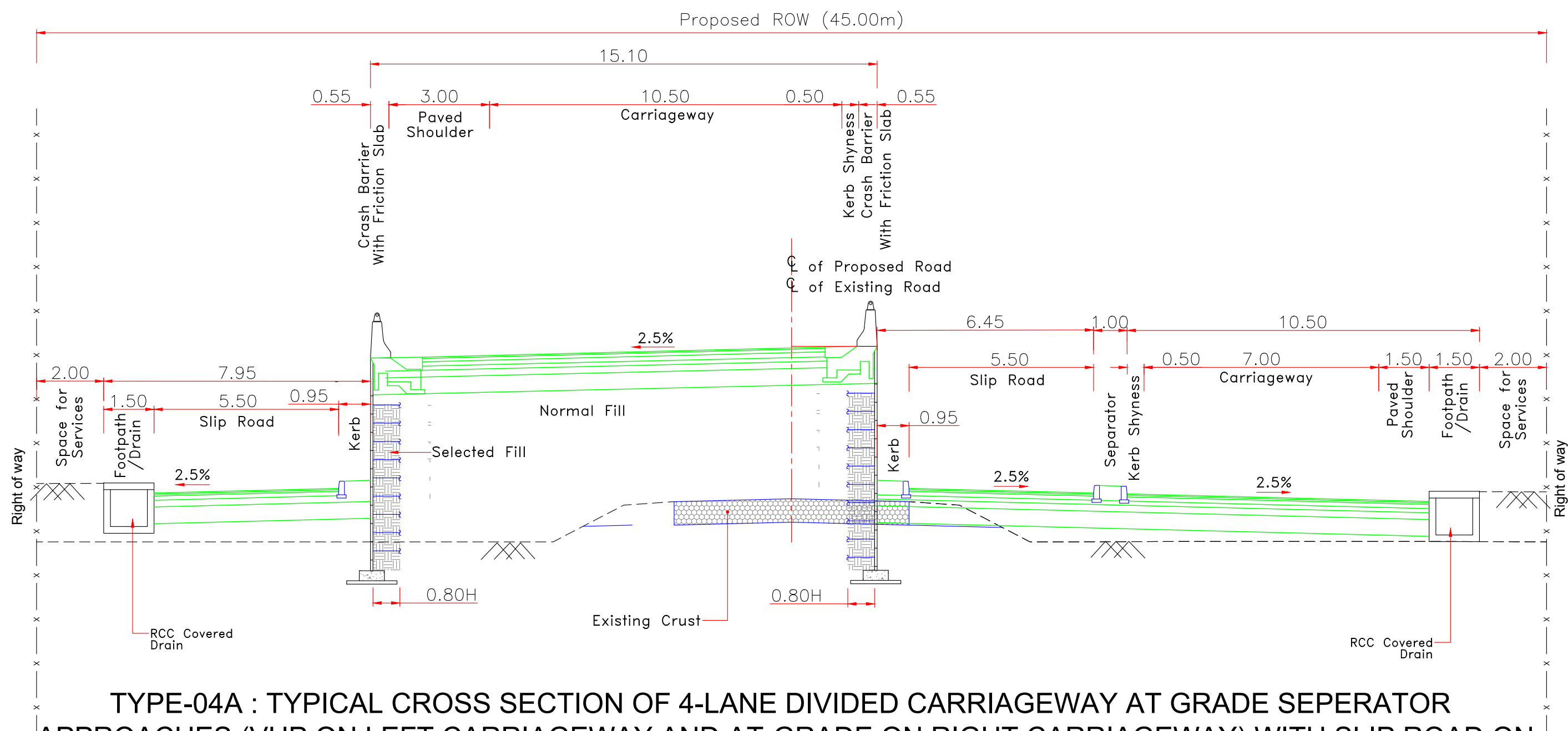
Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE :
PD/PS	SS/SP	DGR	SKC	Typical Cross Section
SCALE :	1:250	SHEET SIZE	A2	DRG. No. : VSPL/1718-082/DPR/PKG-4/TCS- 02
				REVISION:R1
				March 2023



TYPE-03 : TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN AND WITH 7.5M SERVICE ROAD ON BOTH SIDES IN BUILT-UP AREA



TYPE-04A : TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY AT GRADE SEPERATOR APPROACHES (VUP ON LEFT CARRIAGEWAY AND AT-GRADE ON RIGHT CARRIAGEWAY) WITH SLIP ROAD ON BOTH SIDES

Note:
1. All dimensions are in meter unless otherwise specified.
2. * Applicable where embankment height is >3.0m
3. ** Applicable where <3.0m embankment height Turfing with sods of perennial turf forming grass.

CLIENT :

NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA

PROJECT :

CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDOR, INTER CORRIDOR AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE II)

DESIGN CONSULTANT:

VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
CIN- U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
<i>Sas.</i>	<i>Sas.</i>	<i>Shardul</i>	<i>SKC</i>
SCALE :	1:250	SHEET SIZE	A2

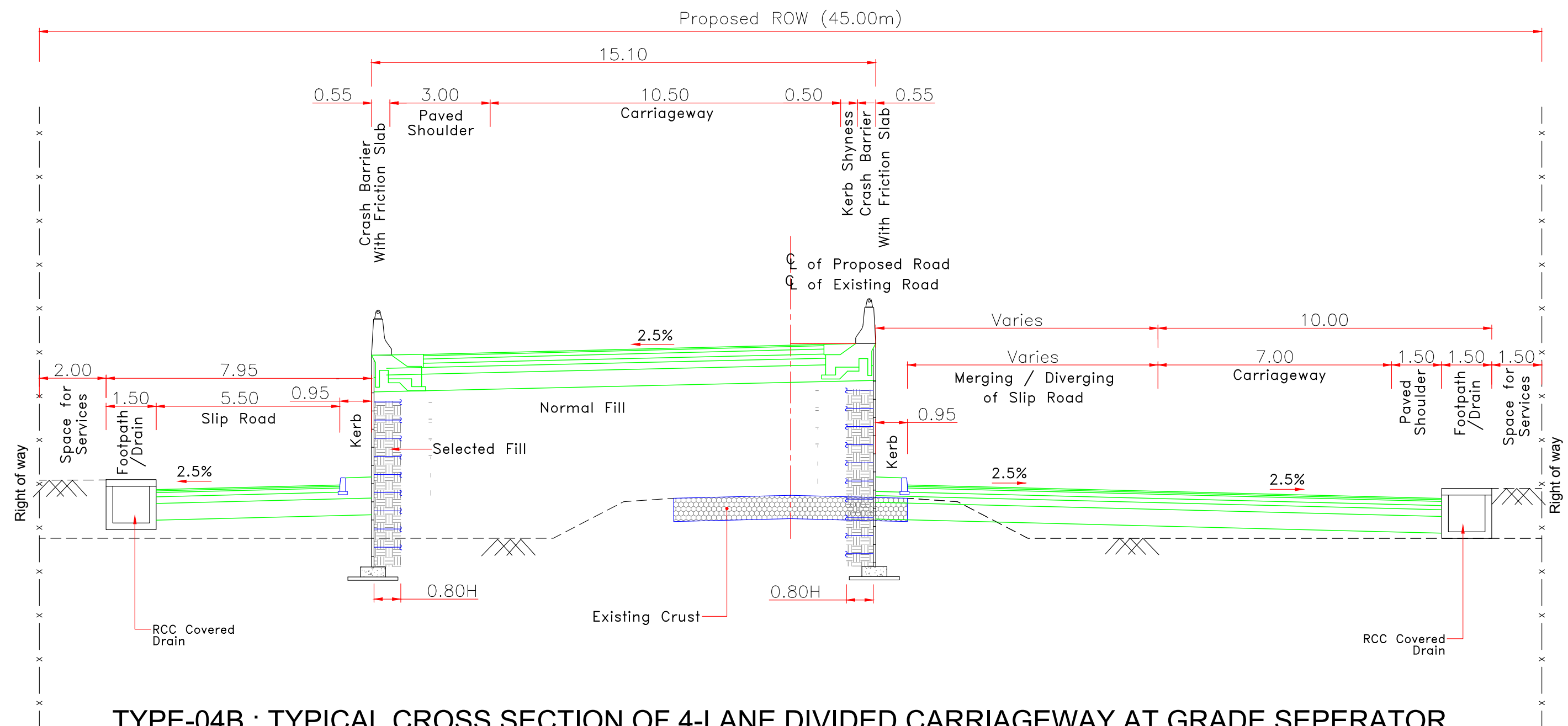
TITLE :

Typical Cross Section

DRG. No. :
VSPL/1718-082/DPR/PKG-4/TCS- 03

REVISION:R1

March 2023



TYPE-04B : TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY AT GRADE SEPERATOR APPROACHES (VUP ON LEFT CARRIAGEWAY AND AT-GRADE ON RIGHT CARRIAGEWAY) WITH SLIP ROAD ON LEFT SIDE AND MERGING / DIVERGING OF SLIP ROAD ON RIGHT SIDE

Note:
1. All dimensions are in meter unless otherwise specified.
2. * Applicable where embankment height is >3.0m
3. ** Applicable where <3.0m embankment height Turfing with sods of perennial turf forming grass.

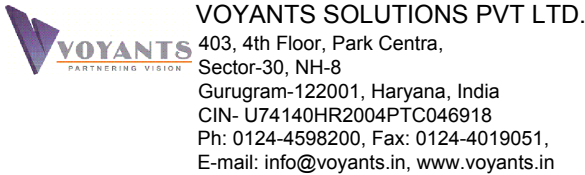
CLIENT :



PROJECT :

CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDOR, INTER CORRIDOR AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE II)

DESIGN CONSULTANT:



Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
SCALE :	1:250	SHEET SIZE	A2

TITLE :
Typical Cross Section

DRG. No. :
VSPL/1718-082/DPR/PKG-4/TCS- 04

REVISION:R1
March 2023

Path: F:\Working_Softwa 2023\1718-082_Pkg-4\NH-515\3.TCS_Sec-1_NH-515\Typical Cross Section_NH 515_Sec-1.dwg

Typical Cross Section Schedule Of NH-515 (Section-1)						
Sl. No.	From	To	Length (m)	TCS	Description	Widening Side
1	800	1400	600	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Left
2	1400	1500	100	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
3	1500	1780	280	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
4	1780	2720	940	Type - 03	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN AND WITH 7.5M SERVICE ROAD ON BOTH SIDES IN BUILT-UP AREA	
5	2720	3000	280	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
6	3000	3400	400	Type - 04B	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY AT GRADE SEPARATOR APPROACHES (VUP ON LEFT CARRIAGEWAY AND AT-GRADE ON RIGHT CARRIAGEWAY) WITH SLIP ROAD ON LEFT SIDE AND MERGING OF SLIP ROAD ON RIGHT SIDE	
7	3400	3585	185	Type - 04A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY AT GRADE SEPARATOR APPROACHES (VUP ON LEFT CARRIAGEWAY AND AT-GRADE ON RIGHT CARRIAGEWAY) WITH SLIP ROAD ON BOTH SIDES	
8	3585	3615	30	STR	VUP (LEFT CARRIAGEWAY)	
9	3615	3950	335	Type - 04A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY AT GRADE SEPARATOR APPROACHES (VUP ON LEFT CARRIAGEWAY AND AT-GRADE ON RIGHT CARRIAGEWAY) WITH SLIP ROAD ON BOTH SIDES	
10	3950	4150	200	Type - 04B	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY AT GRADE SEPARATOR APPROACHES (VUP ON LEFT CARRIAGEWAY AND AT-GRADE ON RIGHT CARRIAGEWAY) WITH SLIP ROAD ON LEFT SIDE AND MERGING/ DIVERGING OF SLIP ROAD ON RIGHT SIDE	
11	4150	4212	62	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
12	4212	4219	7	STR	Minor Bridge	
13	4219	4458	239	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
14	4458	4465	7	STR	Minor Bridge	
15	4465	4650	185	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
16	4650	4780	130	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
17	4780	5520	740	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
18	5520	6800	1280	Type - 03	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN AND WITH 7.5M SERVICE ROAD ON BOTH SIDES IN BUILT-UP AREA	
19	6800	6942	142	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Left
20	6942	6968	26	STR	Minor Bridge	
21	6968	7200	232	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
22	7200	7400	200	Type - 01A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN BYPASS / REALIGNMENT STRETCHES	
23	7400	7819	419	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
24	7819	7843	24	STR	Minor Bridge	
25	7843	8150	307	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
26	8150	9900	1750	Type - 03	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN AND WITH 7.5M SERVICE ROAD ON BOTH SIDES IN BUILT-UP AREA	
27	9900	9980	80	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
28	9980	10640	660	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Left
29	10640	10740	100	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
30	10740	10974	234	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
31	10974	11001	27	STR	Minor Bridge	
32	11001	11020	19	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
33	11020	11263	243	Type - 02A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)	Right
34	11263	11399	136	STR	Major Bridge	
35	11399	11530	131	Type - 02A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)	Right
36	11530	11700	170	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
37	11700	11888	188	Type - 02A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)	Right
38	11888	11978	90	STR	Major Bridge	
39	11978	12020	42	Type - 02A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)	Right

Typical Cross Section Schedule Of NH-515 (Section-1)						
Sl. No.	From	To	Length (m)	TCS	Description	Widening Side
40	12020	12550	530	Type - 01A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN BYPASS / REALIGNMENT STRETCHES	
41	12550	13040	490	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
42	13040	13100	60	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
43	13100	13170	70	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Left
44	13170	13280	110	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
45	13280	14050	770	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Left
46	14050	14100	50	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
47	14100	14640	540	Type - 03	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN AND WITH 7.5M SERVICE ROAD ON BOTH SIDES IN BUILT-UP AREA	
48	14640	16520	1880	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
49	16520	16980	460	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
50	16980	18720	1740	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Left
51	18720	19080	360	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
52	19080	19250	170	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Left
53	19250	19330	80	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
54	19330	19500	170	Type - 02A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)	Right
55	19500	19684	184	STR	Major Bridge	
56	19684	19800	116	Type - 02A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)	Right
57	19800	20610	810	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
58	20610	20690	80	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
59	20690	21291	601	Type - 03	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN AND WITH 7.5M SERVICE ROAD ON BOTH SIDES IN BUILT-UP AREA	
60	21291	21309	18	STR	Minor Bridge	
61	21309	21350	41	Type - 03	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN AND WITH 7.5M SERVICE ROAD ON BOTH SIDES IN BUILT-UP AREA	
62	21350	21460	110	Type - 01	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (CONCENTRIC WIDENING)	
63	21460	22495	1035	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
64	22495	22520	25	STR	Minor Bridge	
65	22520	22792	272	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
66	22792	22817	25	STR	Minor Bridge	
67	22817	23431	614	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
68	23431	23458	27	STR	Minor Bridge	
69	23458	23734	276	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
70	23734	23760	26	STR	Minor Bridge	
71	23760	25452	1692	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
72	25452	25477	25	STR	Minor Bridge	
73	25477	25900	423	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
74	25900	26450	550	Type - 03	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN AND WITH 7.5M SERVICE ROAD ON BOTH SIDES IN BUILT-UP AREA	
75	26450	26540	90	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
76	26540	26697	157	Type - 02A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)	Right
77	26697	27181	484	STR	Major Bridge	
78	27181	27380	199	Type - 02A	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH RAISED MEDIAN (VARRYING WIDTH) IN RURAL AREA AT MAJOR BRIDGE APPROACH (ECCENTRIC WIDENING)	Right
79	27380	27701	321	Type - 02	TYPICAL CROSS SECTION OF 4-LANE DIVIDED CARRIAGEWAY WITH 1.5M WIDE RAISED MEDIAN IN RURAL AREA (ECCENTRIC WIDENING)	Right
Total =			26901			

CLIENT :



**NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA**

PROJECT :

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDOR, INTER CORRIDOR AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE II)**

DESIGN CONSULTANT:



VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurugram-122001, Haryana, India
CIN- U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
SCALE :	1:250	SHEET SIZE	A2

TITLE :

Typical Cross Section

DRG. No. :
VSPL/1718-082/DPR/PKG-4/TCS- 05

REVISION:R1

March 2023

≡ **Horizontal Alignment Report** ≡

PATH: D:\Work\Office\NH-515\HAR_NH-515\HAR_NH-515.dwg

HORIZONTAL ALIGNMENT REPORT OF NH-515

Sl. No.	Circular Curve Start			Circular Curve End			Radius	Hand of Arc	Transition Details				Horizontal Intersection Point			Delta	Speed (kmph)	Superelevation
	Chainage	Northing	Easting	Chainage	Northing	Easting			Start	L1	L2	End	Chainage	Northing	Easting			
1	1+323.159	3047008.434	671214.7	1+437.217	3047107.339	671270.729	400	LEFT	1+208.159	115	115	1+552.217	1+380.188	3047053.865	671249.813	16° 20' 15.5411"	100	5.00%
2	1+676.652	3047339.037	671330.409	1+754.497	3047415.173	671346.607	2000	LEFT					1+715.575	3047376.947	671339.249	02° 13' 48.3835"	100	NC
3	1+814.043	3047473.645	671357.863	1+891.410	3047549.316	671373.953	2000	RIGHT					1+852.727	3047511.636	671365.176	02° 12' 59.0789"	100	NC
4	2+406.337	3048050.993	671489.974	2+698.277	3048341.565	671503.899	1000	LEFT	2+336.337	70	70	2+768.277	2+552.307	3048195.255	671518.296	16° 43' 37.0985"	100	4.44%
5	3+186.831	3048826.099	671441.648	3+291.327	3048930.44	671443.805	600	RIGHT	3+106.831	80	80	3+371.327	3+239.079	3048878.364	671438.172	09° 58' 42.8940"	100	5.00%
6	3+548.581	3049182.877	671492.066	3+581.837	3049213.995	671503.769	400	RIGHT	3+433.581	115	115	3+696.837	3+565.209	3049198.679	671497.270	04° 45' 48.9720"	100	5.00%
7	4+033.474	3049603.256	671732.394	4+846.845	3050390.169	671814.022	1000	LEFT	3+963.474	70	70	4+916.845	4+440.160	3049979.134	671942.668	46° 36' 09.8046"	100	4.44%
8	5+353.097	3050868.359	671647.879	5+548.001	3051059.991	671615.056	800	RIGHT	5+278.097	75	75	5+623.001	5+450.549	3050962.166	671619.737	13° 57' 32.4145"	100	5.56%
9	6+019.087	3051530.856	671618.476	6+051.326	3051562.584	671624.146	400	RIGHT	5+909.087	110	110	6+166.326	6+035.207	3051546.834	671620.671	04° 37' 04.5518"	100	5.00%
10	6+345.906	3051839.448	671724.1	6+427.183	3051912.056	671760.535	750	RIGHT	6+270.906	75	75	6+502.183	6+386.545	3051876.740	671740.348	06° 12' 32.6508"	100	5.00%
11	6+843.595	3052265.014	671981.28	6+981.609	3052398.554	672011.152	305	LEFT	6+768.595	75	75	7+056.609	6+912.602	3052328.346	672011.586	25° 55' 36.4231"	80	7.00%
12	7+232.069	3052647.684	671987.445	7+380.310	3052792.142	672016.716	400	RIGHT	7+117.069	115	115	7+495.310	7+306.190	3052722.656	671988.541	21° 14' 02.2749"	100	5.00%
13	7+597.950	3052982.609	672121.676	7+681.370	3053053.813	672165.129	2200	RIGHT					7+639.660	3053018.623	672142.727	02° 10' 21.2434"	100	NC
14	7+866.166	3053209.702	672264.365	8+172.796	3053477.805	672412.773	2500	LEFT					8+019.481	3053339.197	672346.800	07° 01' 38.7933"	100	NC
15	8+610.841	3053873.27	672601.164	9+110.772	3054286.177	672880.156	1800	RIGHT	8+570.841	40	40	9+150.772	8+860.807	3054099.221	672711.804	15° 54' 47.8590"	100	NC
16	9+885.773	3054856.393	673405.017	9+947.361	3054902.334	673446.031	2000	LEFT					9+916.567	3054879.047	673425.878	01° 45' 51.7120"	100	NC
17	10+033.266	3054967.29	673502.248	10+099.212	3055016.434	673546.218	2000	RIGHT					10+066.239	3054992.225	673523.828	01° 53' 21.1112"	100	NC
18	10+493.848	3055304.054	673816.318	10+518.464	3055320.001	673835.067	500	RIGHT	10+398.848	95	95	10+613.464	10+506.156	3055312.258	673825.496	02° 49' 15.1165"	100	5.00%
19	10+801.665	3055478.887	674069.413	10+944.734	3055562.109	674185.75	2000	LEFT					10+873.200	3055518.417	674129.071	04° 05' 55.1275"	100	NC
20	11+047.084	3055625.982	674265.698	11+075.501	3055645.289	674286.545	600	LEFT	10+967.084	80	80	11+155.501	11+061.293	3055635.389	674276.350	02° 42' 48.8244"	100	5.00%
21	11+405.693	3055889.378	674508.867	11+505.939	3055965.503	674574.076	2000	LEFT					11+455.816	3055926.624	674542.425	02° 52' 18.6247"	100	NC
22	11+536.125	3055988.913	674593.132	11+613.891	3056048.253	674643.388	2000	RIGHT					11+575.008	3056019.072	674617.684	02° 13' 40.2805"	100	NC
23	11+621.578	3056054.021	674648.469	11+749.326	3056147.121	674735.912	2000	RIGHT					11+685.452	3056101.968	674690.703	03° 39' 34.9625"	100	NC
24	11+769.909	3056161.666	674750.476	11+875.177	3056237.982	674822.966	2000	LEFT					11+822.543	3056198.870	674787.725	03° 00' 56.6183"	100	NC
25	12+091.826	3056402.342	674963.661	12+221.012	3056527.331	674980.362	170	LEFT	12+016.826	75	75	12+296.012	12+156.419	3056461.502	674996.969	43° 32' 23.1018"	60	7.00%
26	12+435.118	3056721.874	674891.625	12+543.203	3056825.994	674863.411	500	RIGHT	12+340.118	95	95	12+638.203	12+489.161	3056772.404	674871.869	12° 23' 08.3674"	100	5.00%
27	13+011.486	3057293.221	674837.123	13+253.756	3057514.336	674926.736	400	RIGHT	12+896.486	115	115	13+368.756	13+132.621	3057417.778	674847.386	34° 42' 09.5984"	100	5.00%
28	14+099.700	3058090.099	675546.143	14+304.517	3058262.73	675654.152	550	LEFT	14+004.700	95	95	14+399.517	14+202.109	3058166.242	675616.408	21° 20' 11.7021"	100	5.00%
29	14+603.439	3058549.953	675735.888	14+656.267	3058602.588	675739.934	400	LEFT	14+488.439	115	115	14+771.267	14+629.853	3058576.137	675739.652	07° 34' 01.7354"	100	5.00%
30	15+036.111	3058980.064	675700.514	15+044.786	3058988.736	675700.7	400	RIGHT	14+921.111	115	115	15+159.786	15+040.449	3058984.401	675700.560	01° 14' 33.0174"	100	5.00%
31	16+239.562	3060165.759	675904.592	16+266.319	3060192.091	675909.339	6000	RIGHT					16+252.941	3060178.930	675906.936	00° 15' 19.8419"	100	NC
32	16+444.671	3060367.543	675941.373	16+534.965	3060456.704	675955.58	2000	LEFT					16+489.818	3060411.963	675949.483	02° 35' 12.2062"	100	NC
33	16+587.518	3060508.776	675962.676	16+664.608	3060584.94	675974.555	2000	RIGHT					16+626.063	3060546.973	675967.882	02° 12' 30.4611"	100	NC
34	16+895.124	3060811.976	676014.46	16+990.155	3060905.927	676028.681	2000	LEFT					16+942.640	3060858.783	676022.687	02° 43' 20.7045"	100	NC
35	16+992.062	3060907.82	676028.922	17+099.160	3061013.649	676045.268	2000	RIGHT					17+045.611	3060960.953	676035.678	03° 04' 05.2336"	100	NC
36	18+157.927	3062055.881	676231.497	18+176.175	3062073.831	676234.778	5000	RIGHT					18+167.051	3062064.859	676233.121	00° 12' 32.7658"	100	NC
37	18+701.261	3062589.532	676333.074	18+992.514	3062790.369	676529.119	310	RIGHT	18+626.261	75	75	19+067.514	18+846.888	3062739.714	676380.118	53° 49' 51.1191"	80	7.00%
38	19+343.626	3062863.63	676872.356	19+404.162	3062869.046	676932.624	600	RIGHT	19+263.626	80	80	19+484.162	19+373.894	3062867.859	676902.354	05° 46' 51.0149"	100	5.00%
39	19+763.041	3062864.084	677291.349	19+782.636	3062866.627	677310.775	300	LEFT	19+688.041	75	75	19+857.636	19+772.839	3062865.038	677301.104	03		

≡ **Vertical Report** ≡

Vertical Alignment Report _ LME

PVI	PVI			Grade		Diff. in Grade	Chainage(m)		Level(m)		Type Of Curve	K Value
	Chainage (m)	Level (m)	Curve Length (r	IN (%)	OUT (%)	(%)	Start of Curve	End of Curve	Start of Curve	End of Curve		
1	0+200.00	114.100m	350.000m	0.00%	-2.50%	-2.50%	0+025.00	0+375.00	114.100m	109.718m	Crest	139.78
2	0+504.39	106.478m	140.000m	-2.50%	0.33%	2.83%	0+434.39	0+574.39	108.231m	106.707m	Valley	49.46
3	0+817.90	107.503m	60.000m	0.33%	0.02%	-0.31%	0+787.90	0+847.90	107.405m	107.508m	Crest	193.52
4	1+556.18	107.626m	60.000m	0.02%	0.32%	0.30%	1+526.18	1+586.18	107.621m	107.722m	Valley	197.75
5	1+840.03	108.535m	80.000m	0.32%	-0.20%	-0.52%	1+800.03	1+880.03	108.407m	108.455m	Crest	154.02
6	1+963.60	108.289m	60.000m	-0.20%	0.23%	0.43%	1+933.60	1+993.60	108.349m	108.357m	Valley	140.23
7	2+240.08	108.921m	80.000m	0.23%	-0.23%	-0.46%	2+200.08	2+280.08	108.829m	108.828m	Crest	173.46
8	2+360.90	108.640m	60.000m	-0.23%	0.42%	0.65%	2+330.90	2+390.90	108.710m	108.767m	Valley	91.32
9	2+480.97	109.149m	120.000m	0.42%	-0.40%	-0.82%	2+420.97	2+540.97	108.895m	108.911m	Crest	145.93
10	2+573.75	108.780m	60.000m	-0.40%	0.05%	0.45%	2+543.75	2+603.75	108.900m	108.797m	Valley	132.57
11	2+840.02	108.926m	60.000m	0.05%	0.15%	0.10%	2+810.02	2+870.02	108.910m	108.971m	Valley	639.65
12	3+043.74	109.229m	110.000m	0.15%	2.49%	2.34%	2+988.74	3+098.74	109.147m	110.601m	Valley	46.89
13	3+599.94	123.104m	680.000m	2.49%	-2.49%	-4.98%	3+259.94	3+939.94	114.622m	114.640m	Crest	136.43
14	4+098.00	110.704m	110.000m	-2.49%	-0.19%	2.30%	4+043.00	4+153.00	112.074m	110.601m	Valley	47.81
15	4+234.27	110.447m	60.000m	-0.19%	-0.53%	-0.34%	4+204.27	4+264.27	110.504m	110.289m	Crest	178.39
16	4+319.88	109.997m	60.000m	-0.53%	0.59%	1.12%	4+289.88	4+349.88	110.155m	110.174m	Valley	53.91
17	4+458.02	110.809m	170.000m	0.59%	-0.64%	-1.23%	4+373.02	4+543.02	110.310m	110.262m	Crest	138.11
18	4+605.54	109.860m	60.000m	-0.64%	0.14%	0.78%	4+575.54	4+635.54	110.053m	109.902m	Valley	76.64
19	5+002.93	110.414m	60.000m	0.14%	0.21%	0.07%	4+972.93	5+032.93	110.373m	110.478m	Valley	823.53
20	5+400.64	111.259m	60.000m	0.21%	-0.07%	-0.28%	5+370.64	5+430.64	111.195m	111.239m	Crest	215.00
21	5+535.54	111.169m	60.000m	-0.07%	0.47%	0.54%	5+505.54	5+565.54	111.189m	111.310m	Valley	111.73
22	5+668.08	111.793m	60.000m	0.47%	0.23%	-0.24%	5+638.08	5+698.08	111.652m	111.863m	Crest	254.14
23	5+885.78	112.303m	60.000m	0.23%	0.47%	0.24%	5+855.78	5+915.78	112.232m	112.443m	Valley	258.42
24	6+043.14	113.037m	80.000m	0.47%	0.04%	-0.43%	6+003.14	6+083.14	112.850m	113.053m	Crest	187.42
25	6+729.06	113.308m	60.000m	0.04%	0.09%	0.05%	6+699.06	6+759.06	113.296m	113.336m	Valley	1117.23
26	7+455.69	113.986m	80.000m	0.09%	1.47%	1.38%	7+415.69	7+495.69	113.949m	114.576m	Valley	57.95
27	7+821.04	119.371m	390.000m	1.47%	-1.39%	-2.86%	7+626.04	8+016.04	116.497m	116.670m	Crest	136.41
28	8+114.87	115.301m	80.000m	-1.39%	0.16%	1.55%	8+074.87	8+154.87	115.855m	115.366m	Valley	51.67
29	8+438.16	115.828m	60.000m	0.16%	0.40%	0.24%	8+408.16	8+468.16	115.779m	115.949m	Valley	249.84
30	9+025.78	118.197m	300.000m	0.40%	-0.19%	-0.59%	8+875.78	9+175.78	117.592m	117.917m	Crest	508.84
31	10+247.67	115.918m	150.000m	-0.19%	-0.62%	-0.43%	10+172.67	10+322.67	116.058m	115.451m	Crest	344.32
32	10+649.99	113.415m	60.000m	-0.62%	0.12%	0.74%	10+619.99	10+679.99	113.602m	113.452m	Valley	80.36
33	10+831.47	113.641m	110.000m	0.12%	2.40%	2.28%	10+776.47	10+886.47	113.573m	114.959m	Valley	48.41
34	11+073.85	119.450m	330.000m	2.40%	0.00%	-2.40%	10+908.85	11+238.85	115.496m	119.450m	Crest	137.69
35	11+499.63	119.450m	180.000m	0.00%	-1.31%	-1.31%	11+409.63	11+589.63	119.450m	118.267m	Crest	136.97
36	11+676.97	117.120m	110.000m	-1.31%	1.00%	2.31%	11+621.97	11+731.97	117.842m	117.672m	Valley	47.45
37	11+809.49	118.450m	140.000m	1.00%	0.00%	-1.00%	11+739.49	11+879.49	117.747m	118.450m	Crest	139.44
38	12+153.66	118.450m	200.000m	0.00%	-0.95%	-0.95%	12+053.66	12+253.66	118.450m	117.496m	Crest	209.73
39	12+621.63	113.987m	90.000m	-0.95%	0.91%	1.86%	12+576.63	12+666.63	114.417m	114.397m	Valley	48.31
40	12+750.26	115.157m	130.000m	0.91%	0.01%	-0.90%	12+685.26	12+815.26	114.566m	115.165m	Crest	144.87
41	12+885.48	115.173m	60.000m	0.01%	0.33%	0.32%	12+855.48	12+915.48	115.169m	115.270m	Valley	191.55
42	13+502.33	117.178m	110.000m	0.33%	-0.41%	-0.74%	13+447.33	13+557.33	116.999m	116.950m	Crest	148.65
43	13+671.03	116.478m	60.000m	-0.41%	0.33%	0.74%	13+641.03	13+701.03	116.602m	116.576m	Valley	80.99
44	13+921.61	117.294m	60.000m	0.33%	0.89%	0.56%	13+891.61	13+951.61	117.197m	117.560m	Valley	107.07
45	14+028.98	118.246m	90.000m	0.89%	0.29%	-0.60%	13+983.98	14+073.98	117.847m	118.376m	Crest	150.50
46	14+308.95	119.053m	60.000m	0.29%	0.07%	-0.22%	14+278.95	14+338.95	118.967m	119.073m	Crest	270.49
47	14+640.56	119.273m	60.000m	0.07%	-0.22%	-0.29%	14+610.56	14+670.56	119.253m	119.209m	Crest	213.02
48	14+832.13	118.861m	60.000m	-0.22%	0.03%	0.25%	14+802.13	14+862.13	118.926m	118.869m	Valley	246.65
49	15+166.53	118.955m	60.000m	0.03%	0.22%	0.19%	15+136.53	15+196.53	118.946m	119.019m	Valley	320.66
50	15+443.97	119.551m	60.000m	0.22%	0.06%	-0.16%	15+413.97	15+473.97	119.487m	119.568m	Crest	375.15
51	15+761.40	119.727m	60.000m	0.06%	1.03%	0.97%	15+731.40	15+791.40	119.710m	120.037m	Valley	61.32
52	15+911.40	121.277m	170.000m	1.03%	-0.16%	-1.19%	15+826.40	15+996.40	120.398m	121.144m	Crest	142.82
53	16+034.31	121.084m	60.000m	-0.16%	0.63%	0.79%	16+004.31	16+064.31	121.131m	121.272m	Valley	76.57
54	16+146.53	121.788m	60.000m	0.63%	0.31%	-0.32%	16+116.53	16+176.53	121.600m	121.882m	Crest	191.68
55	17+289.46	125.375m	60.000m	0.31%	0.65%	0.34%	17+259.46	17+319.46	125.281m	125.570m	Valley	178.46
56	17+988.45	129.919m	150.000m	0.65%	0.16%	-0.49%	17+913.45	18+063.45	129.432m	130.042m	Crest	308.33
57	18+354.71	130.519m	60.000m	0.16%	0.49%	0.33%	18+324.71	18+384.71	130.470m	130.667m	Valley	181.09
58	18+954.68	133.488m	100.000m	0.49%	-0.21%	-0.70%	18+904.68	19+004.68	133.241m	133.384m	Crest	142.33
59	19+112.73	133.160m	160.000m	-0.21%	2.45%	2.66%	19+032.73	19+192.73	133.326m	135.121m	Valley	60.17
60	19+379.52	139.700m	185.000m	2.45%	0.00%	-2.45%	19+287.02	19+472.02	137.432m	139.700m	Crest	75.47

Vertical Alignment Report _ LME

PVI	PVI			Grade		Diff. in Grade	Chainage(m)		Level(m)		Type Of Curve	K Value
	Chainage (m)	Level (m)	Curve Length (r	IN (%)	OUT (%)	(%)	Start of Curve	End of Curve	Start of Curve	End of Curve		
61	19+882.66	139.700m	340.000m	0.00%	-2.50%	-2.50%	19+712.66	20+052.66	139.700m	135.453m	Crest	136.10
62	20+157.59	132.832m	120.000m	-2.50%	0.06%	2.56%	20+097.59	20+217.59	134.330m	132.869m	Valley	46.87
63	20+587.14	133.099m	60.000m	0.06%	0.33%	0.27%	20+557.14	20+617.14	133.080m	133.198m	Valley	223.26
64	21+029.12	134.562m	120.000m	0.33%	-0.47%	-0.80%	20+969.12	21+089.12	134.363m	134.280m	Crest	149.83
65	21+276.44	133.399m	60.000m	-0.47%	-0.01%	0.46%	21+246.44	21+306.44	133.540m	133.397m	Valley	129.87
66	21+627.43	133.371m	60.000m	-0.01%	-0.28%	-0.27%	21+597.43	21+657.43	133.374m	133.289m	Crest	224.07
67	22+191.86	131.815m	150.000m	-0.28%	0.94%	1.22%	22+116.86	22+266.86	132.022m	132.518m	Valley	123.69
68	22+506.41	134.763m	270.000m	0.94%	-1.06%	-2.00%	22+371.41	22+641.41	133.498m	133.338m	Crest	135.51
69	22+681.07	132.919m	60.000m	-1.06%	-0.28%	0.78%	22+651.07	22+711.07	133.236m	132.835m	Valley	77.34
70	22+867.59	132.397m	120.000m	-0.28%	-1.12%	-0.84%	22+807.59	22+927.59	132.565m	131.727m	Crest	143.25
71	23+043.53	130.431m	60.000m	-1.12%	-0.41%	0.71%	23+013.53	23+073.53	130.766m	130.307m	Valley	85.28
72	23+312.42	129.318m	60.000m	-0.41%	0.10%	0.51%	23+282.42	23+342.42	129.442m	129.348m	Valley	117.03
73	23+451.73	129.455m	80.000m	0.10%	1.42%	1.32%	23+411.73	23+491.73	129.416m	130.025m	Valley	60.42
74	23+749.78	133.696m	340.000m	1.42%	-1.03%	-2.45%	23+579.78	23+919.78	131.277m	131.938m	Crest	138.36
75	23+990.67	131.204m	60.000m	-1.03%	-0.01%	1.02%	23+960.67	24+020.67	131.515m	131.202m	Valley	58.39
76	24+103.77	131.196m	60.000m	-0.01%	-0.40%	-0.39%	24+073.77	24+133.77	131.198m	131.077m	Crest	153.27
77	24+240.79	130.650m	60.000m	-0.40%	0.27%	0.67%	24+210.79	24+270.79	130.770m	130.733m	Valley	89.10
78	24+388.26	131.056m	60.000m	0.27%	0.02%	-0.25%	24+358.26	24+418.26	130.973m	131.062m	Crest	235.29
79	24+660.09	131.110m	60.000m	0.02%	0.31%	0.29%	24+630.09	24+690.09	131.104m	131.201m	Valley	210.39
80	24+864.99	131.735m	60.000m	0.31%	-0.02%	-0.33%	24+834.99	24+894.99	131.643m	131.728m	Crest	183.28
81	24+958.73	131.714m	60.000m	-0.02%	0.52%	0.54%	24+928.73	24+988.73	131.721m	131.869m	Valley	111.14
82	25+111.47	132.504m	140.000m	0.52%	-0.52%	-1.04%	25+041.47	25+181.47	132.142m	132.143m	Crest	135.36
83	25+232.30	131.880m	100.000m	-0.52%	1.55%	2.07%	25+182.30	25+282.30	132.138m	132.653m	Valley	48.46
84	25+464.23	135.468m	250.000m	1.55%	-1.67%	-3.22%	25+339.23	25+589.23	133.534m	133.377m	Crest	77.66
85	25+712.79	131.311m	120.000m	-1.67%	0.17%	1.84%	25+652.79	25+772.79	132.315m	131.416m	Valley	64.97
86	26+134.97	132.049m	100.000m	0.17%	-0.14%	-0.31%	26+084.97	26+184.97	131.961m	131.980m	Crest	319.70
87	26+430.64	131.640m	60.000m	-0.14%	0.03%	0.17%	26+400.64	26+460.64	131.682m	131.650m	Valley	351.49
88	26+614.22	131.700m	60.000m	0.03%	0.00%	-0.03%	26+584.22	26+644.22	131.690m	131.700m	Crest	1841.53
89	27+227.39	131.700m	60.000m	0.00%	0.18%	0.18%	27+197.39	27+257.39	131.700m	131.753m	Valley	342.60
90	27+435.72	132.065m	60.000m	0.18%	-0.06%	-0.24%	27+405.72	27+465.72	132.012m	132.048m	Crest	258.02

Vertical Alignment Report _ RME

PVI	PVI			Grade		Diff. in Grade	Chainage(m)		Level(m)		Type Of Curve	K Value
	Chainage (m)	Level (m)	Curve Length (r	IN (%)	OUT (%)	(%)	Start of Curv	End of Curv	Start of Curve	End of Curve		
1	0+200.00	114.100m	350.000m	0.00%	-2.50%	-2.50%	0+025.00	0+375.00	114.100m	109.718m	Crest	139.78
2	0+504.39	106.478m	140.000m	-2.50%	0.33%	2.83%	0+434.39	0+574.39	108.231m	106.707m	Valley	49.46
3	0+817.90	107.503m	60.000m	0.33%	0.02%	-0.31%	0+787.90	0+847.90	107.405m	107.508m	Crest	193.52
4	1+556.18	107.626m	60.000m	0.02%	0.32%	0.30%	1+526.18	1+586.18	107.621m	107.722m	Valley	197.75
5	1+840.03	108.535m	80.000m	0.32%	-0.20%	-0.52%	1+800.03	1+880.03	108.407m	108.455m	Crest	154.02
6	1+963.60	108.289m	60.000m	-0.20%	0.23%	0.43%	1+933.60	1+993.60	108.349m	108.357m	Valley	140.23
7	2+240.08	108.921m	80.000m	0.23%	-0.23%	-0.46%	2+200.08	2+280.08	108.829m	108.828m	Crest	173.46
8	2+360.90	108.640m	60.000m	-0.23%	0.42%	0.65%	2+330.90	2+390.90	108.710m	108.767m	Valley	91.32
9	2+480.97	109.149m	120.000m	0.42%	-0.40%	-0.82%	2+420.97	2+540.97	108.895m	108.911m	Crest	145.93
10	2+573.75	108.780m	60.000m	-0.40%	0.05%	0.45%	2+543.75	2+603.75	108.900m	108.797m	Valley	132.57
11	2+840.02	108.926m	60.000m	0.05%	0.15%	0.10%	2+810.02	2+870.02	108.910m	108.971m	Valley	639.65
12	3+278.02	109.577m	60.000m	0.15%	0.00%	-0.15%	3+248.02	3+308.02	109.532m	109.578m	Crest	415.39
13	3+485.86	109.585m	60.000m	0.00%	0.42%	0.42%	3+455.86	3+515.86	109.584m	109.710m	Valley	145.86
14	3+647.17	110.255m	70.000m	0.42%	-0.07%	-0.49%	3+612.17	3+682.17	110.110m	110.231m	Crest	144.08
15	4+067.67	109.960m	60.000m	-0.07%	0.43%	0.50%	4+037.67	4+097.67	109.981m	110.087m	Valley	120.97
16	4+210.96	110.569m	130.000m	0.43%	-0.53%	-0.96%	4+145.96	4+275.96	110.293m	110.228m	Crest	136.71
17	4+319.88	109.997m	60.000m	-0.53%	0.59%	1.12%	4+289.88	4+349.88	110.155m	110.174m	Valley	53.91
18	4+458.02	110.809m	170.000m	0.59%	-0.64%	-1.23%	4+373.02	4+543.02	110.310m	110.262m	Crest	138.11
19	4+605.54	109.860m	60.000m	-0.64%	0.14%	0.78%	4+575.54	4+635.54	110.053m	109.902m	Valley	76.64
20	5+002.93	110.414m	60.000m	0.14%	0.21%	0.07%	4+972.93	5+032.93	110.373m	110.478m	Valley	823.53
21	5+400.64	111.259m	60.000m	0.21%	-0.07%	-0.28%	5+370.64	5+430.64	111.195m	111.239m	Crest	215.00
22	5+535.54	111.169m	60.000m	-0.07%	0.47%	0.54%	5+505.54	5+565.54	111.189m	111.310m	Valley	111.73
23	5+668.08	111.793m	60.000m	0.47%	0.23%	-0.24%	5+638.08	5+698.08	111.652m	111.863m	Crest	254.14
24	5+885.78	112.303m	60.000m	0.23%	0.47%	0.24%	5+855.78	5+915.78	112.232m	112.443m	Valley	258.42
25	6+043.14	113.037m	80.000m	0.47%	0.04%	-0.43%	6+003.14	6+083.14	112.850m	113.053m	Crest	187.43
26	6+729.06	113.308m	60.000m	0.04%	0.09%	0.05%	6+699.06	6+759.06	113.296m	113.336m	Valley	1117.23
27	7+455.69	113.986m	80.000m	0.09%	1.47%	1.38%	7+415.69	7+495.69	113.949m	114.576m	Valley	57.95
28	7+821.04	119.371m	390.000m	1.47%	-1.39%	-2.86%	7+626.04	8+016.04	116.497m	116.670m	Crest	136.41
29	8+114.87	115.301m	80.000m	-1.39%	0.16%	1.55%	8+074.87	8+154.87	115.855m	115.366m	Valley	51.68
30	8+438.16	115.828m	60.000m	0.16%	0.40%	0.24%	8+408.16	8+468.16	115.779m	115.949m	Valley	249.84
31	9+025.78	118.197m	300.000m	0.40%	-0.19%	-0.59%	8+875.78	9+175.78	117.592m	117.917m	Crest	508.84
32	10+247.67	115.918m	150.000m	-0.19%	-0.62%	-0.43%	10+172.67	10+322.67	116.058m	115.451m	Crest	344.32
33	10+649.99	113.415m	60.000m	-0.62%	0.12%	0.74%	10+619.99	10+679.99	113.602m	113.452m	Valley	80.36
34	10+831.47	113.641m	110.000m	0.12%	2.40%	2.28%	10+776.47	10+886.47	113.573m	114.959m	Valley	48.41
35	11+073.85	119.450m	330.000m	2.40%	0.00%	-2.40%	10+908.85	11+238.85	115.496m	119.450m	Crest	137.69
36	11+499.63	119.450m	180.000m	0.00%	-1.31%	-1.31%	11+409.63	11+589.63	119.450m	118.267m	Crest	136.98
37	11+676.97	117.120m	110.000m	-1.31%	1.00%	2.31%	11+621.97	11+731.97	117.842m	117.672m	Valley	47.45
38	11+809.49	118.450m	140.000m	1.00%	0.00%	-1.00%	11+739.49	11+879.49	117.747m	118.450m	Crest	139.44
39	12+153.66	118.450m	200.000m	0.00%	-0.95%	-0.95%	12+053.66	12+253.66	118.450m	117.496m	Crest	209.73
40	12+621.63	113.987m	90.000m	-0.95%	0.91%	1.86%	12+576.63	12+666.63	114.417m	114.397m	Valley	48.32
41	12+750.26	115.157m	130.000m	0.91%	0.01%	-0.90%	12+685.26	12+815.26	114.566m	115.165m	Crest	144.87
42	12+885.48	115.173m	60.000m	0.01%	0.33%	0.32%	12+855.48	12+915.48	115.169m	115.270m	Valley	191.55
43	13+502.33	117.178m	110.000m	0.33%	-0.41%	-0.74%	13+447.33	13+557.33	116.999m	116.950m	Crest	148.65
44	13+671.03	116.478m	60.000m	-0.41%	0.33%	0.74%	13+641.03	13+701.03	116.602m	116.576m	Valley	80.99
45	13+921.61	117.294m	60.000m	0.33%	0.89%	0.56%	13+891.61	13+951.61	117.197m	117.560m	Valley	107.07
46	14+028.98	118.246m	90.000m	0.89%	0.29%	-0.60%	13+983.98	14+073.98	117.847m	118.376m	Crest	150.50
47	14+308.95	119.053m	60.000m	0.29%	0.07%	-0.22%	14+278.95	14+338.95	118.967m	119.073m	Crest	270.49
48	14+640.56	119.273m	60.000m	0.07%	-0.22%	-0.29%	14+610.56	14+670.56	119.253m	119.209m	Crest	213.02
49	14+832.13	118.861m	60.000m	-0.22%	0.03%	0.25%	14+802.13	14+862.13	118.926m	118.869m	Valley	246.65
50	15+166.53	118.955m	60.000m	0.03%	0.22%	0.19%	15+136.53	15+196.53	118.946m	119.019m	Valley	320.67
51	15+443.97	119.551m	60.000m	0.22%	0.06%	-0.16%	15+413.97	15+473.97	119.487m	119.568m	Crest	375.15
52	15+761.40	119.727m	60.000m	0.06%	1.03%	0.97%	15+731.40	15+791.40	119.710m	120.037m	Valley	61.32
53	15+911.40	121.277m	170.000m	1.03%	-0.16%	-1.19%	15+826.40	15+996.40	120.398m	121.144m	Crest	142.82
54	16+034.31	121.084m	60.000m	-0.16%	0.63%	0.79%	16+004.31	16+064.31	121.131m	121.272m	Valley	76.57
55	16+146.53	121.788m	60.000m	0.63%	0.31%	-0.32%	16+116.53	16+176.53	121.600m	121.882m	Crest	191.68
56	17+289.46	125.375m	60.000m	0.31%	0.65%	0.34%	17+259.46	17+319.46	125.281m	125.570m	Valley	178.46
57	17+988.45	129.919m	150.000m	0.65%	0.16%	-0.49%	17+913.45	18+063.45	129.432m	130.042m	Crest	308.33
58	18+354.71	130.519m	60.000m	0.16%	0.49%	0.33%	18+324.71	18+384.71	130.470m	130.667m	Valley	181.09
59	18+954.68	133.488m	100.000m	0.49%	-0.21%	-0.70%	18+904.68	19+004.68	133.241m	133.384m	Crest	142.33

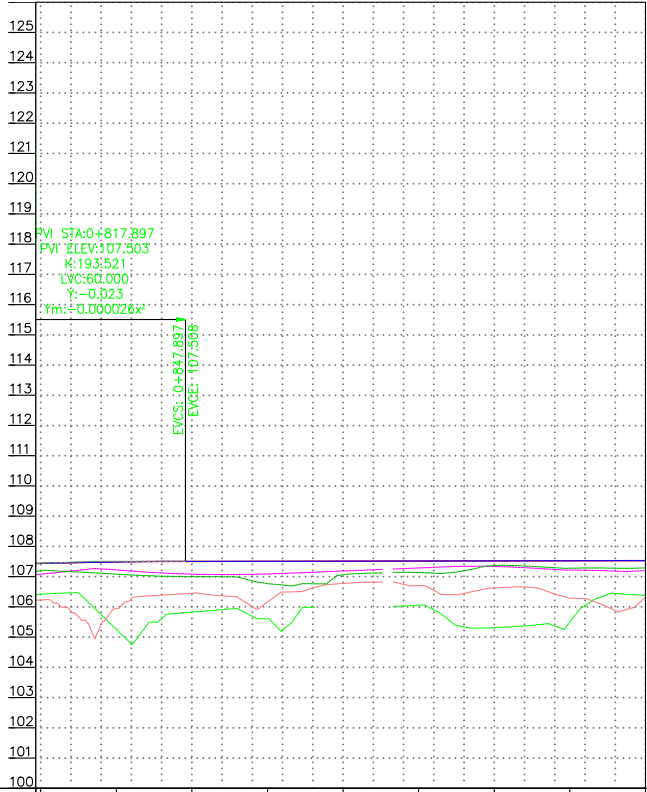
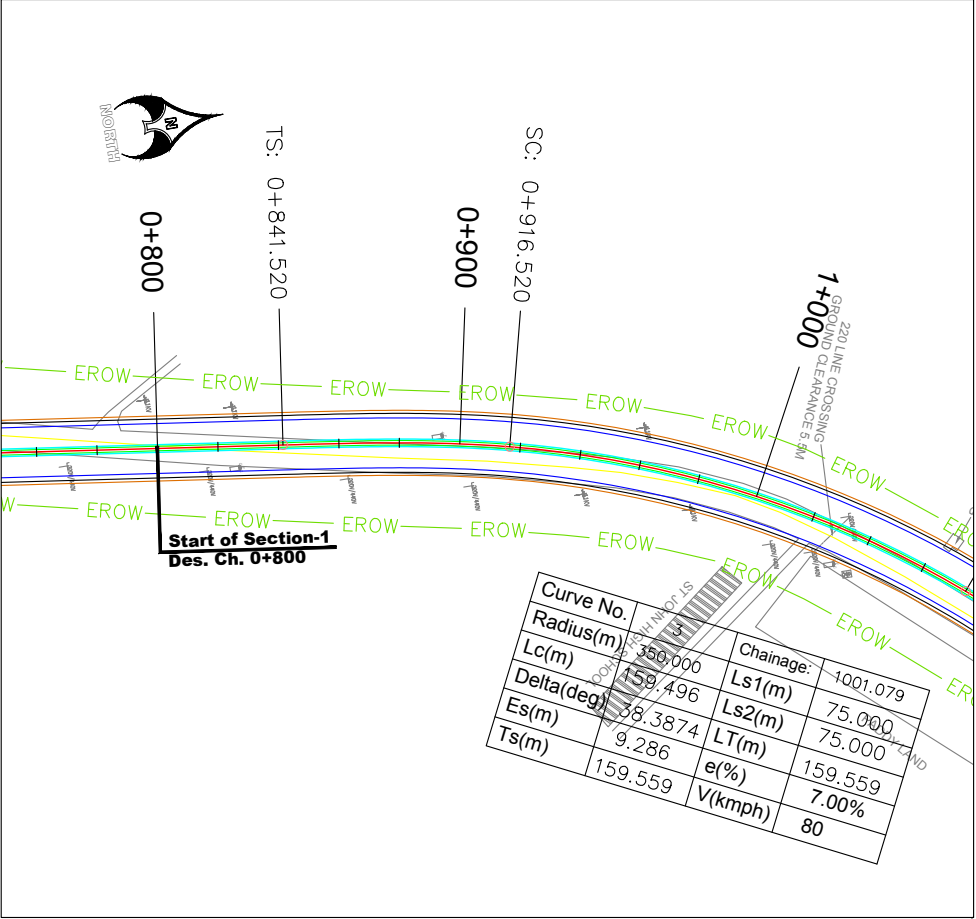
Vertical Alignment Report _ RME

PVI	PVI			Grade		Diff. in Grade	Chainage(m)		Level(m)		Type Of Curve	K Value
	Chainage (m)	Level (m)	Curve Length (r	IN (%)	OUT (%)	(%)	Start of Curv	End of Curv	Start of Curve	End of Curve		
60	19+112.73	133.160m	160.000m	-0.21%	2.45%	2.66%	19+032.73	19+192.73	133.326m	135.121m	Valley	60.17
61	19+379.52	139.700m	185.000m	2.45%	0.00%	-2.45%	19+287.02	19+472.02	137.432m	139.700m	Crest	75.47
62	19+882.66	139.700m	340.000m	0.00%	-2.50%	-2.50%	19+712.66	20+052.66	139.700m	135.453m	Crest	136.10
63	20+157.59	132.832m	120.000m	-2.50%	0.06%	2.56%	20+097.59	20+217.59	134.330m	132.869m	Valley	46.87
64	20+587.14	133.099m	60.000m	0.06%	0.33%	0.27%	20+557.14	20+617.14	133.080m	133.198m	Valley	223.26
65	21+029.12	134.562m	120.000m	0.33%	-0.47%	-0.80%	20+969.12	21+089.12	134.363m	134.280m	Crest	149.83
66	21+276.44	133.399m	60.000m	-0.47%	-0.01%	0.46%	21+246.44	21+306.44	133.540m	133.397m	Valley	129.87
67	21+627.43	133.371m	60.000m	-0.01%	-0.28%	-0.27%	21+597.43	21+657.43	133.374m	133.289m	Crest	224.07
68	22+191.86	131.815m	150.000m	-0.28%	0.94%	1.22%	22+116.86	22+266.86	132.022m	132.518m	Valley	123.69
69	22+506.41	134.763m	270.000m	0.94%	-1.06%	-2.00%	22+371.41	22+641.41	133.498m	133.338m	Crest	135.51
70	22+681.07	132.919m	60.000m	-1.06%	-0.28%	0.78%	22+651.07	22+711.07	133.236m	132.835m	Valley	77.34
71	22+867.59	132.397m	120.000m	-0.28%	-1.12%	-0.84%	22+807.59	22+927.59	132.565m	131.727m	Crest	143.25
72	23+043.53	130.431m	60.000m	-1.12%	-0.41%	0.71%	23+013.53	23+073.53	130.766m	130.307m	Valley	85.28
73	23+312.42	129.318m	60.000m	-0.41%	0.10%	0.51%	23+282.42	23+342.42	129.442m	129.348m	Valley	117.03
74	23+451.73	129.455m	80.000m	0.10%	1.42%	1.32%	23+411.73	23+491.73	129.416m	130.025m	Valley	60.42
75	23+749.78	133.696m	340.000m	1.42%	-1.03%	-2.45%	23+579.78	23+919.78	131.277m	131.938m	Crest	138.36
76	23+990.67	131.204m	60.000m	-1.03%	-0.01%	1.02%	23+960.67	24+020.67	131.515m	131.202m	Valley	58.39
77	24+103.77	131.196m	60.000m	-0.01%	-0.40%	-0.39%	24+073.77	24+133.77	131.198m	131.077m	Crest	153.27
78	24+240.79	130.650m	60.000m	-0.40%	0.27%	0.67%	24+210.79	24+270.79	130.770m	130.733m	Valley	89.10
79	24+388.26	131.056m	60.000m	0.27%	0.02%	-0.25%	24+358.26	24+418.26	130.973m	131.062m	Crest	235.29
80	24+660.09	131.110m	60.000m	0.02%	0.31%	0.29%	24+630.09	24+690.09	131.104m	131.201m	Valley	210.39
81	24+864.99	131.735m	60.000m	0.31%	-0.02%	-0.33%	24+834.99	24+894.99	131.643m	131.728m	Crest	183.28
82	24+958.73	131.714m	60.000m	-0.02%	0.52%	0.54%	24+928.73	24+988.73	131.721m	131.869m	Valley	111.14
83	25+111.47	132.504m	140.000m	0.52%	-0.52%	-1.04%	25+041.47	25+181.47	132.142m	132.143m	Crest	135.36
84	25+232.30	131.880m	100.000m	-0.52%	1.55%	2.07%	25+182.30	25+282.30	132.138m	132.653m	Valley	48.46
85	25+464.23	135.468m	250.000m	1.55%	-1.67%	-3.22%	25+339.23	25+589.23	133.534m	133.377m	Crest	77.66
86	25+712.79	131.311m	120.000m	-1.67%	0.17%	1.84%	25+652.79	25+772.79	132.315m	131.416m	Valley	64.97
87	26+134.97	132.049m	100.000m	0.17%	-0.14%	-0.31%	26+084.97	26+184.97	131.961m	131.980m	Crest	319.70
88	26+430.64	131.640m	60.000m	-0.14%	0.03%	0.17%	26+400.64	26+460.64	131.682m	131.650m	Valley	351.49
89	26+614.22	131.700m	60.000m	0.03%	0.00%	-0.03%	26+584.22	26+644.22	131.690m	131.700m	Crest	1841.53
90	27+227.39	131.700m	60.000m	0.00%	0.18%	0.18%	27+197.39	27+257.39	131.700m	131.753m	Valley	342.60
91	27+435.72	132.065m	60.000m	0.18%	-0.06%	-0.24%	27+405.72	27+465.72	132.012m	132.048m	Crest	258.02

≡ **Plan & Profile** ≡

← DHEMAJI

OYAN →



PROPOSED LME DESIGN EDGE (m)	107.441	107.490	107.508	107.512	107.517	107.521	107.525	107.529	107.533
PROPOSED RME PROFILE LEVEL (m)	107.441	107.490	107.508	107.512	107.517	107.521	107.525	107.529	107.533
EXISTING GROUND LEVEL LME(m)	107.193	107.084	107.001	106.775	106.665	106.339	106.369	107.281	107.291
EXISTING GROUND LEVEL RME (m)	107.085	107.225	107.085	107.091	107.189	107.290	107.339	107.220	107.202
EXISTING 20M LEFT GROUND LEVEL (m)	105.942	105.259	105.829	105.610		106.057	105.310	105.503	106.380
EXISTING 20M RIGHT GROUND LEVEL (m)	106.240	105.947	106.455	106.162	106.776	106.705	106.629	106.287	106.324
HORIZONTAL ALIGNMENT	Ls=75.00m					L=159.496 R=350.000			
VERTICAL GEOMETRY LME									
VERTICAL GEOMETRY RME									
STATION (m)	0+800.000	0+825.000	0+850.000	0+875.000	0+900.000	0+925.000	0+950.000	0+975.000	1+000.000

CLIENT :



**NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.**
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA

PROJECT :

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:



VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurugram-122001, Haryana, India
CIN: U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

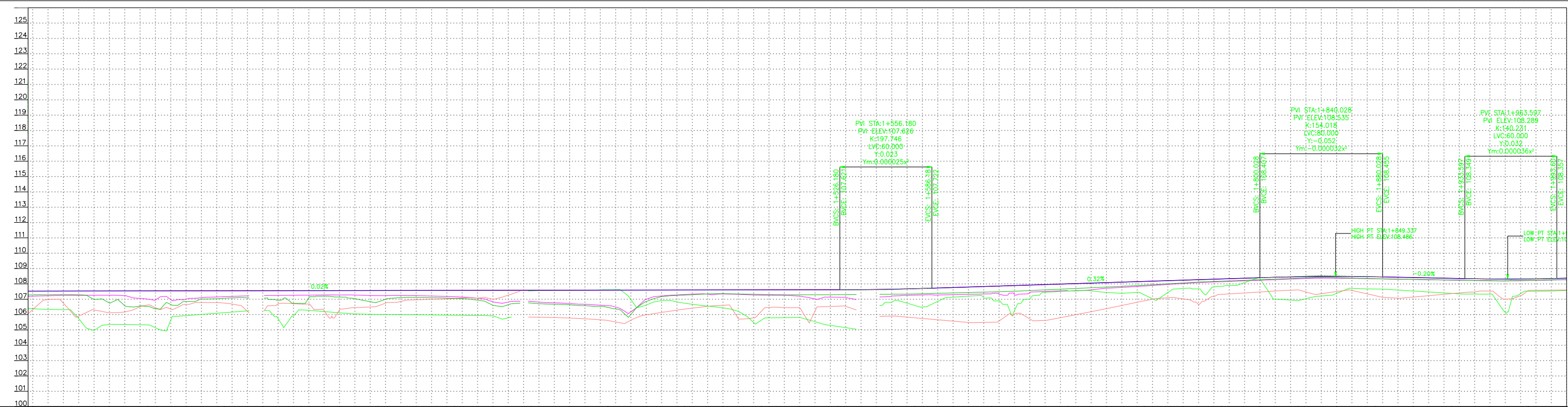
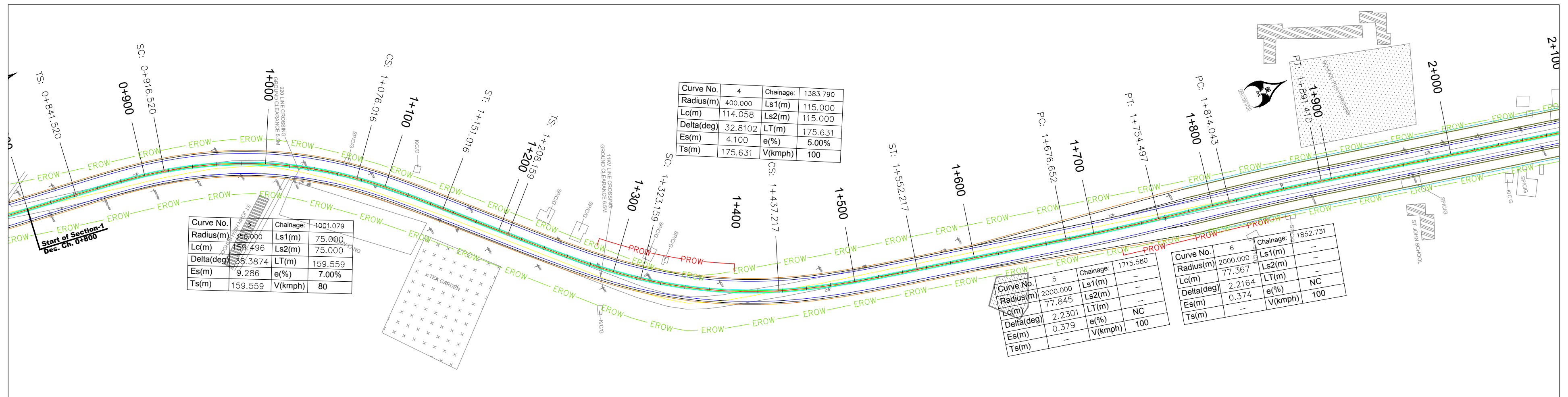
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
PD/PS	SS/SP	DGR	SKC
SCALE :	HOR 1:2500 VER 1:250	SHEET SIZE	A2

TITLE :

Plan and Profile
(km 0+800 to km 1+000)

DRG. No. :
VSPL/1718-082/DPR/PKG-4/NH-515/S1/PP-01

REVISION:R1 March 2023



PROPOSED LME DESIGN EDGE (m)	107.533	107.537	107.542	107.546	107.550	107.554	107.558	107.563	107.567	107.571	107.575	107.579	107.583	107.588	107.592	107.596	107.600	107.604	107.609	107.613	107.617	107.621	107.624	107.629	107.633	107.637	107.641	107.646	107.650	107.654	107.658	107.662	107.666	107.670	107.674	107.678	107.682	107.686	107.690	107.694	107.698	107.702	107.706	107.710	107.714	107.718	107.722	107.726	107.730	107.734	107.738	107.742	107.746	107.750	107.754	107.758	107.762	107.766	107.770	107.774	107.778	107.782	107.786	107.790	107.794	107.798	107.802	107.806	107.810	107.814	107.818	107.822	107.826	107.830	107.834	107.838	107.842	107.846	107.850	107.854	107.858	107.862	107.866	107.870	107.874	107.878	107.882	107.886	107.890	107.894	107.898	107.902	107.906	107.910	107.914	107.918	107.922	107.926	107.930	107.934	107.938	107.942	107.946	107.950	107.954	107.958	107.962	107.966	107.970	107.974	107.978	107.982	107.986	107.990	107.994	107.998	108.002	108.006	108.010	108.014	108.018	108.022	108.026	108.030	108.034	108.038	108.042	108.046	108.050	108.054	108.058	108.062	108.066	108.070	108.074	108.078	108.082	108.086	108.090	108.094	108.098	108.102	108.106	108.110	108.114	108.118	108.122	108.126	108.130	108.134	108.138	108.142	108.146	108.150	108.154	108.158	108.162	108.166	108.170	108.174	108.178	108.182	108.186	108.190	108.194	108.198	108.202	108.206	108.210	108.214	108.218	108.222	108.226	108.230	108.234	108.238	108.242	108.246	108.250	108.254	108.258	108.262	108.266	108.270	108.274	108.278	108.282	108.286	108.290	108.294	108.298	108.302	108.306	108.310	108.314	108.318	108.322	108.326	108.330	108.334	108.338	108.342	108.346	108.350	108.354	108.358	108.362	108.366	108.370	108.374	108.378	108.382	108.386	108.390	108.394	108.398	108.402	108.406	108.410	108.414	108.418	108.422	108.426	108.430	108.434	108.438	108.442	108.446	108.450	108.454	108.458	108.462	108.466	108.470	108.474	108.478	108.482	108.486	108.490	108.494	108.498	108.502	108.506	108.510	108.514	108.518	108.522	108.526	108.530	108.534	108.538	108.542	108.546	108.550	108.554	108.558	108.562	108.566	108.570	108.574	108.578	108.582	108.586	108.590	108.594	108.598	108.602	108.606	108.610	108.614	108.618	108.622	108.626	108.630	108.634	108.638	108.642	108.646	108.650	108.654	108.658	108.662	108.666	108.670	108.674	108.678	108.682	108.686	108.690	108.694	108.698	108.702	108.706	108.710	108.714	108.718	108.722	108.726	108.730	108.734	108.738	108.742	108.746	108.750	108.754	108.758	108.762	108.766	108.770	108.774	108.778	108.782	108.786	108.790	108.794	108.798	108.802	108.806	108.810	108.814	108.818	108.822	108.826	108.830	108.834	108.838	108.842	108.846	108.850	108.854	108.858	108.862	108.866	108.870	108.874	108.878	108.882	108.886	108.890	108.894	108.898	108.902	108.906	108.910	108.914	108.918	108.922	108.926	108.930	108.934	108.938	108.942	108.946	108.950	108.954	108.958	108.962	108.966	108.970	108.974	108.978	108.982	108.986	108.990	108.994	108.998	109.002	109.006	109.010	109.014	109.018	109.022	109.026	109.030	109.034	109.038	109.042	109.046	109.050	109.054	109.058	109.062	109.066	109.070	109.074	109.078	109.082	109.086	109.090	109.094	109.098	109.102	109.106	109.110	109.114	109.118	109.122	109.126	109.130	109.134	109.138	109.142	109.146	109.150	109.154	109.158	109.162	109.166	109.170	109.174	109.178	109.182	109.186	109.190	109.194	109.198	109.202	109.206	109.210	109.214	109.218	109.222	109.226	109.230	109.234	109.238	109.242	109.246	109.250	109.254	109.258	109.262	109.266	109.270	109.274	109.278	109.282	109.286	109.290	109.294	109.298	109.302	109.306	109.310	109.314	109.318	109.322	109.326	109.330	109.334	109.338	109.342	109.346	109.350	109.354	109.358	109.362	109.366	109.370	109.374	109.378	109.382	109.386	109.390	109.394	109.398	109.402	109.406	109.410	109.414	109.418	109.422	109.426	109.430	109.434	109.438	109.442	109.446	109.450	109.454	109.458	109.462	109.466	109.470	109.474	109.478	109.482	109.486	109.490	109.494	109.498	109.502	109.506	109.510	109.514	109.518	109.522	109.526	109.530	109.534	109.538	109.542	109.546	109.550	109.554	109.558	109.562	109.566	109.570	109.574	109.578	109.582	109.586	109.590	109.594	109.598	109.602	109.606	109.610	109.614	109.618	109.622	109.626	109.630	109.634	109.638	109.642	109.646	109.650	109.654	109.658	109.662	109.666	109.670	109.674	109.678	109.682	109.686	109.690	109.694	109.698	109.702	109.706	109.710	109.714	109.718	109.722	109.726	109.730	109.734	109.738	109.742	109.746	109.750	109.754	109.758	109.762	109.766	109.770	109.774	109.778	109.782	109.786	109.790	109.794	109.798	109.802	109.806	109.810	109.814	109.818	109.822	109.826	109.830	109.834	109.838	109.842	109.846	109.850	109.854	109.858	109.862	109.866	109.870	109.874	109.878	109.882	109.886	109.890	109.894	109.898	109.902	109.906	109.910	109.914	109.918	109.922	109.926	109.930	109.934	109.938	109.942	109.946	109.950	109.954	109.958	109.962	109.966	109.970	109.974	109.978	109.982	109.986	109.990	109.994	109.998	110.002	110.006	110.010	110.014	110.018	110.022	110.026	110.030	110.034	110.038	110.042	110.046	110.050	110.054	110.058	110.062	110.066	110.070	110.074	110.078	110.082	110.086	110.090	110.094	110.098	110.102	110.106	110.110	110.114	110.118	110.122	110.126	110.130	110.134	110.138	110.142	110.146	110.150	110.154	110.158	110.162	110.166	110.170	110.174	110.178	110.182	110.186	110.190	110.194	110.198	110.202	110.206	110.210	110.214	110.218	110.222	110.226	110.230	110.234	110.238	110.242	110.246	110.250	110.254	110.258	110.262	110.266	110.270	110.274	110.278	110.282	110.286	110.290	110.294	110.298	110.302	110.306	110.310	110.314	110.318	110.322	110.326	110.330	110.334	110.338	110.342	110.346	110.350	110.354	110.358	110.362	110.366	110.370	110.374	110.378	110.382	110.386	110.390	110.394	110.398	110.402	110.406	110.410	110.414	110.418	110.422	110.426	110.430	110.434	110.438	110.442	110.446	110.450	110.454	110.458	110.462	110.466	110.470	110.474	110.478	110.482	110.486	110.490	110.494	110.498	110.502	110.506	110.510	110.514	110.518	110.522	110.526	110.530	110.534	110.538	110.542	110.546	110.550	110.554	110.558	110.562	110.566	110.570	110.574	110.578	110.582	110.586	110.590	110.594	110.598	110.602	110.606	110.610	110.614	110.618	110.622	110.626	110.630	110.634	110.638	110.642	110.646	110.650	110.654	110.658	110.662	110.666	110.670	110.674	110.678	110.682	110.686	110.690	110.694	110.698	110.702	110.706	110.710	110.714	110.718	110.722	110.726	110.730	110.734	110.738	110.742	110.746	110.750	110.754	110.758	110.762	110.766	110.770	110.774	110.778	110.782	110.786	110.790	110.794	110.798	110.802	110.806	110.810	110.814	110.818	110.822	110.826	110.830	110.834	110.838	110.842	110.846	110.850	110.854	110.858	110.862	110.866	110.870	110.874	110.878	110.882	110.886	110.890	110.894	110.898	110.902	110.906	110.910	110.914	110.918	110.922	110.926	110.930	110.934	110.938	110.942	110.946	110.950	110.954	110.958	110.962	110.966	110.970	110.974	110.978	110.982	110.986	110.990	110.994	110.998	111.002	111.006	111.010	111.014	111.018	111.022	111.026	111.030	111.034	111.038	111.042	111.046	111.050	111.054	111.058	111.062	111.066	111.070	111.074	111.078	111.082	111.086	111.090	111.094	111.098	111.102	111.106	111.110	111.114	111.118	111.122	111.126	111.130	111.134	111.138	111.142	111.146	111.150	111.154	111.158	111.162	111.166	111.170	111.174	111.178	111.182	111.186	111.190	111.194	111.198	111.202	111.206	111.210	111.214	111.218	111.222	111.226	111.230	111.234	111.238	111.242	111.246	111.250	111.254	111.258	111.262	111.266	111.270	111.274	111.278	111.282	111.286	111.290	111.294	111.298	111.302	111.306	111.310	111.314	111.318	111.322	111.326	111.330	111.334	111.338	111.342	111.346	111.350	111.354	111.358	111.362	111.366	111.370	111.374	111.378	111.382	111.386	111.390	111.394	111.398	111.402	111.406	111.410	111.414	111.418	111.422	111.426	111.430	111.434	111.438	111.442	111.446	111.450	111.454	111.458	111.462	111.466	111.470	111.474	111.478	111.482	111.486	111.490	111.494	111.498	111.502	111.506	111.510	111.514	111.518	111.522	111.526	111.530	111.534	111.538	111.542	111.546	111.550	111.554	111.558	111.562	111.566	111.570	111.574	111.578	111.582	111.586	111.590	111.594	111.598	111.602	111.606	111.610	111.614	111.618	111.622	111.626	111.630	111.634	111.638	111.642	111.646	111.650	111.654	1
---------------------------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---

CLIENT :


BUILDING INFRASTRUCTURE... BUILDING THE NATION

**NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.**
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

 **VOYANTS**
PARTNERING VISION

VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurugram-122001, Haryana, India
CIN- U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

REV.	DATE	DESCRIPTION

	PD/PS
	<i>Sas.</i>
SCALE :	H V

SS/SP


OR 1:2500
VER 1:250

DGR

SHEET SIZE

SKC

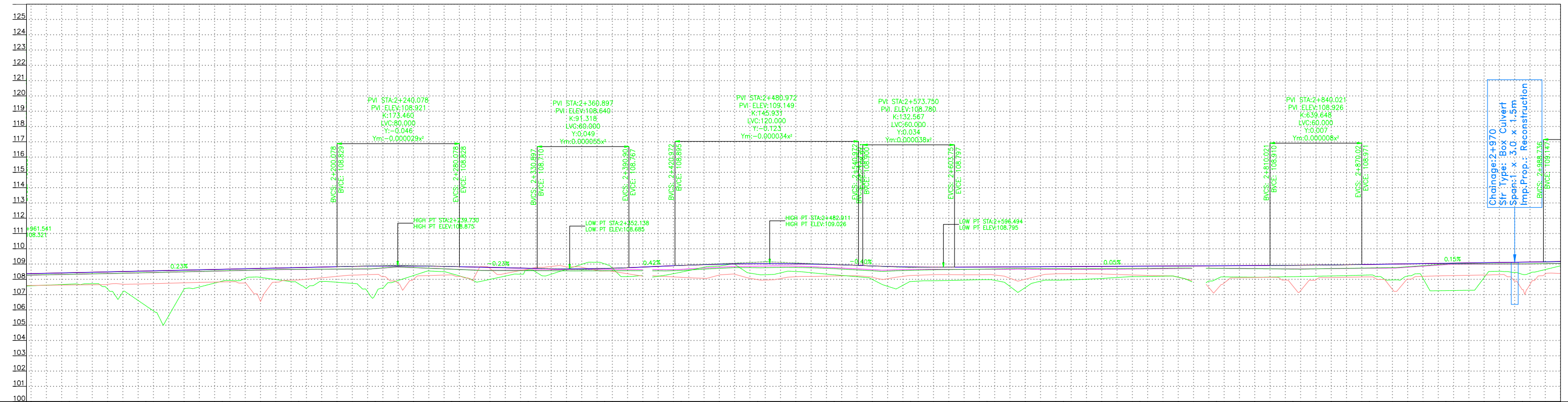
A2

Plan and Profile (km 1+000 to km 2+000)

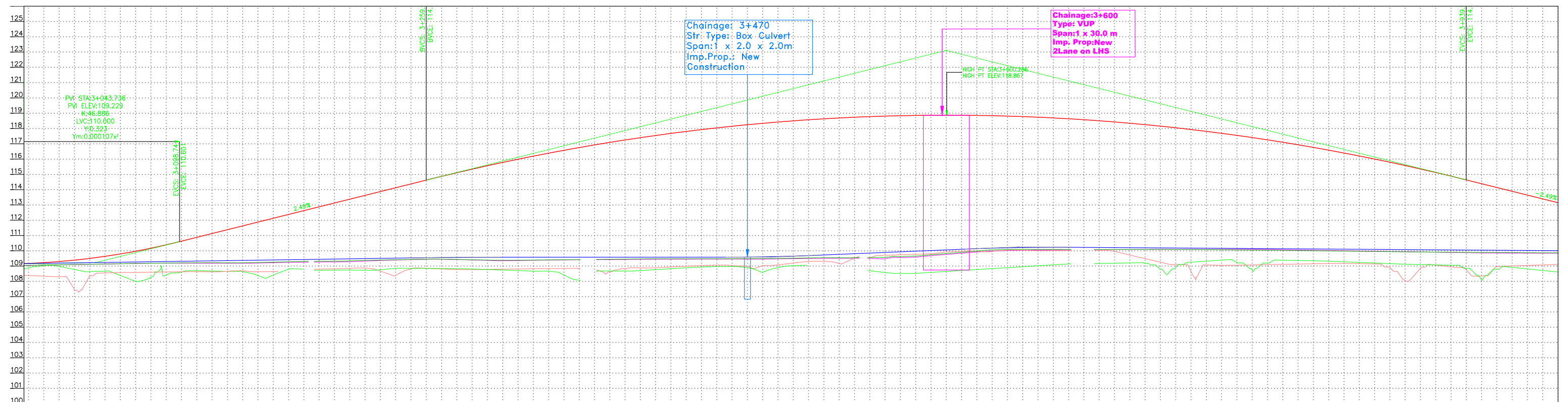
DRG. No. :
VSPL/1718-082/DPR/PKG-4/NH-515/S1/PP-02

REVISION:R1

March 2023

[illegible]

REVISION:R1	March 2023
-------------	------------



STATION (m)	PROPOSED RME PROFILE LINE (m)	EXISTING GROUND LEVEL RME (m)	EXISTING 20M LEFT GROUND LEVEL (m)	EXISTING 20M RIGHT GROUND LEVEL (m)	HORIZONTAL ALIGNMENT	VERTICAL GEOMETRY LME	VERTICAL GEOMETRY RME
3+000.000	109.164	109.045	108.887	108.386			
3+025.000	109.201	109.097	108.880	108.274			
3+050.000	109.238	109.136	108.872	108.552			
3+075.000	109.275	109.178	108.864	108.568			
3+100.000	109.312	109.208	108.852	108.631			
3+125.000	109.349	109.217	108.867	108.634			
3+150.000	109.387	109.236	108.881	108.631			
3+175.000	109.424	109.252	108.816	-			
3+200.000	109.461	109.270	108.821	108.735			
3+225.000	109.498	109.286	108.819	108.731			
3+250.000	109.535	109.301	108.807	108.840			
3+275.000	109.563	109.317	108.795	108.833			
3+300.000	109.577	109.335	108.784	108.776			
3+325.000	109.579	109.339	108.822	108.687			
3+350.000	109.580	109.345	108.842	108.423			
3+375.000	109.581	109.342	108.819	108.683			
3+400.000	109.582	109.347	108.884	108.709			
3+425.000	109.583	109.348	108.864	108.658			
3+450.000	109.584	109.349	108.866	108.971			
3+475.000	109.597	109.351	108.846	108.773			
3+500.000	109.603	109.357	108.895	109.023			
3+525.000	109.746	109.546	109.381	-			
3+550.000	109.852	109.584	109.336	108.698			
3+575.000	109.956	109.638	109.754	108.517			
3+600.000	110.059	109.827	109.922	108.650			
3+625.000	110.158	110.028	109.939	108.804			
3+650.000	110.218	110.057	110.048	108.958			
3+675.000	110.234	110.050	110.015	109.111			
3+700.000	110.218	110.089	110.023	109.172			
3+725.000	110.201	110.050	110.004	109.217			
3+750.000	110.183	110.089	110.094	108.920			
3+775.000	110.165	110.075	110.094	109.358			
3+800.000	110.146	110.049	110.050	108.741			
3+825.000	110.130	110.021	110.061	109.378			
3+850.000	110.113	110.001	109.984	109.321			
3+875.000	110.095	110.001	109.981	109.224			
3+900.000	110.078	110.032	109.942	109.123			
3+925.000	110.060	110.012	109.902	109.067			
3+950.000	110.042	110.008	109.882	108.974			
3+975.000	110.025	110.001	109.847	108.865			
4+000.000	110.007	110.007	109.867	108.824			

CLIENT :


BUILDING INFRASTRUCTURE - BUILDING THE FUTURE

**NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.**
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

 **VOYANTS**
PARTNERING VISION

VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurugram-122001, Haryana, India
CIN- U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

REV.	DATE	DESCRIPTION

PD/PS
<i>Bas.</i>
SCALE : H V

SS/SP


OR 1:2500
VER 1:250

DGR

SHEET SIZE

SKC

A2

Plan and Profile (km 3+000 to km 4+000)

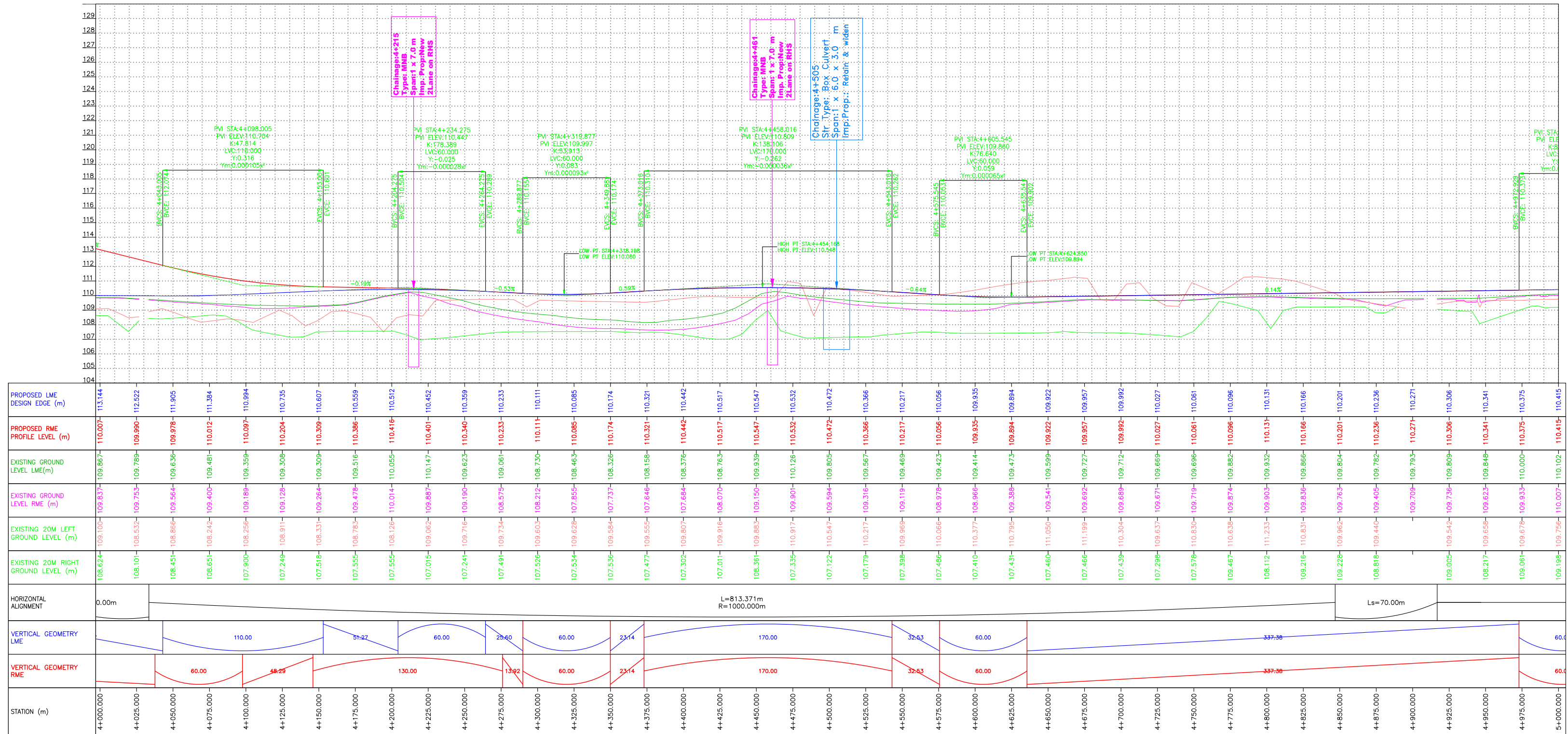
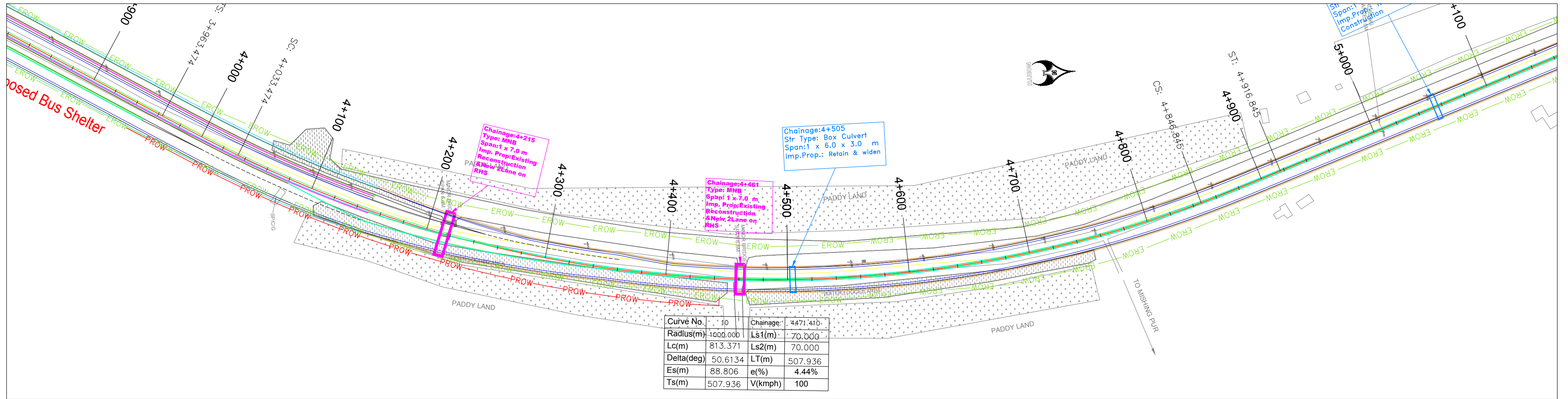
DRG. No. :
VSPL/1718-082/DPR/PKG-4/NH-515/S1/PP-04

REVISION:R1

March 2023

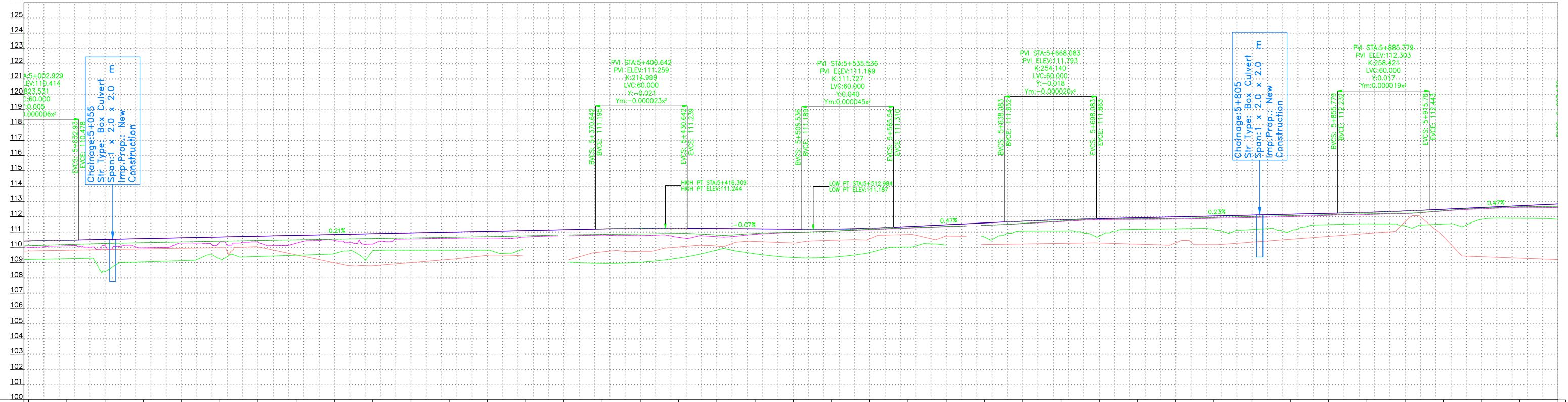
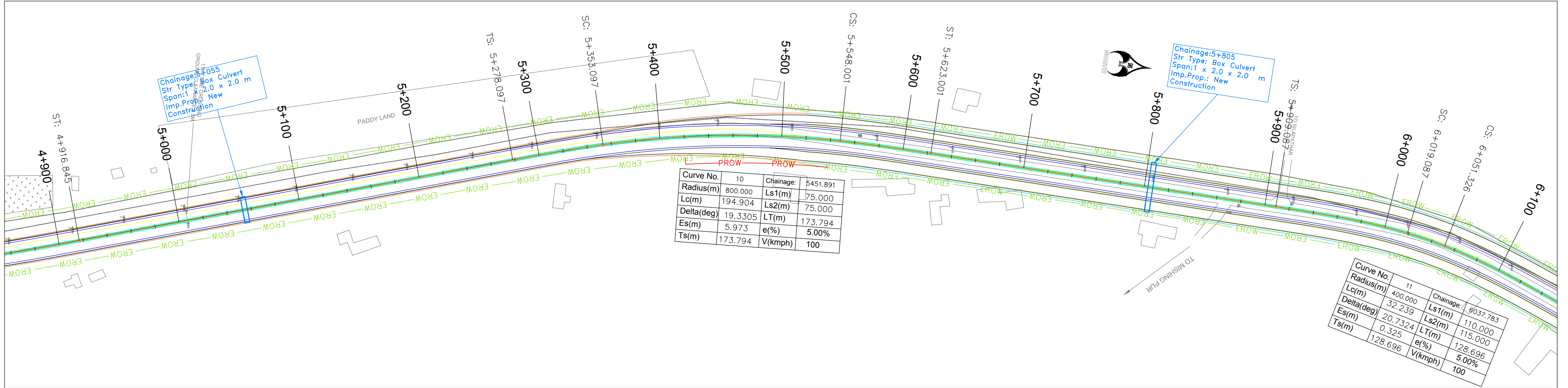
← DHEMAJI

OYAN →

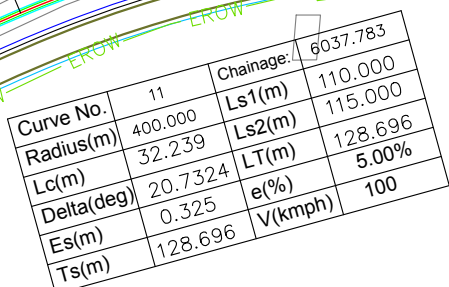


← DHEMAJI

OYAN →

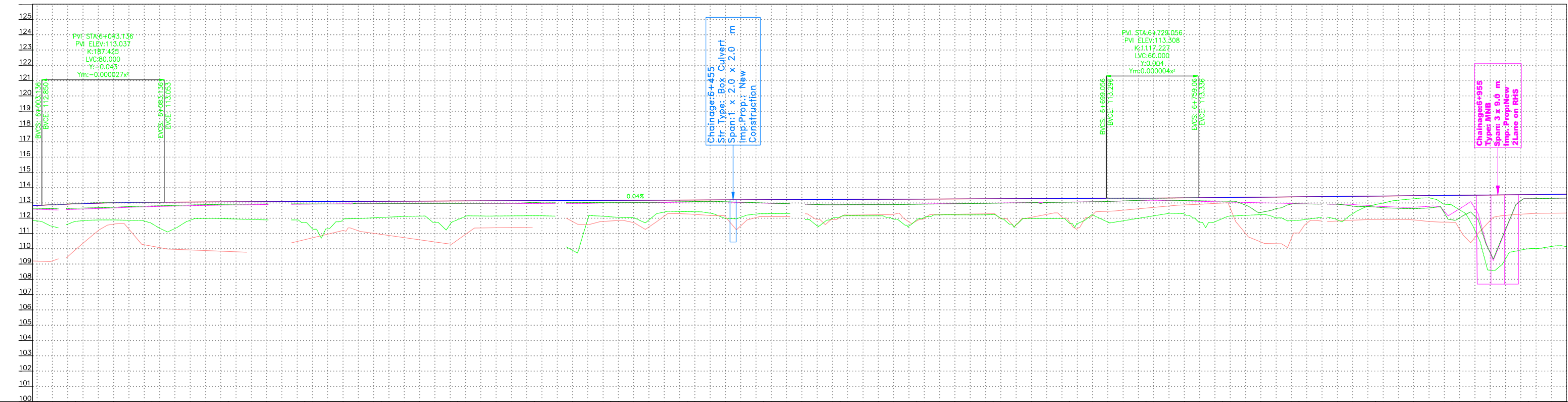


PROPOSED LME DESIGN EDGE (m)	110.415	110.415	110.462	110.514	110.568	110.621	110.674	110.727	110.780	110.833	110.886	110.939	110.992	111.045	111.099	111.152	111.204	111.258	111.311	111.364	111.417	111.470	111.523	111.576	111.629	111.682	111.735	111.788	111.841	111.894	111.947	112.000	112.053	112.106	112.159	112.212	112.265	112.318	112.371	112.424	112.477	112.530	112.583	112.636	112.689	112.742	112.795	112.848	112.901	112.954	113.007	113.060	113.113	113.166	113.219	113.272	113.325	113.378	113.431	113.484	113.537	113.590	113.643	113.696	113.749	113.802	113.855	113.908	113.961	114.014	114.067	114.120	114.173	114.226	114.279	114.332	114.385	114.438	114.491	114.544	114.597	114.650	114.703	114.756	114.809	114.862	114.915	114.968	115.021	115.074	115.127	115.180	115.233	115.286	115.339	115.392	115.445	115.498	115.551	115.604	115.657	115.710	115.763	115.816	115.869	115.922	115.975	116.028	116.081	116.134	116.187	116.240	116.293	116.346	116.399	116.452	116.505	116.558	116.611	116.664	116.717	116.770	116.823	116.876	116.929	116.982	117.035	117.088	117.141	117.194	117.247	117.300	117.353	117.406	117.459	117.512	117.565	117.618	117.671	117.724	117.777	117.830	117.883	117.936	117.989	118.042	118.095	118.148	118.201	118.254	118.307	118.360	118.413	118.466	118.519	118.572	118.625	118.678	118.731	118.784	118.837	118.890	118.943	118.996	119.049	119.102	119.155	119.208	119.261	119.314	119.367	119.420	119.473	119.526	119.579	119.632	119.685	119.738	119.791	119.844	119.897	119.950	120.003	120.056	120.109	120.162	120.215	120.268	120.321	120.374	120.427	120.480	120.533	120.586	120.639	120.692	120.745	120.798	120.851	120.904	120.957	121.010	121.063	121.116	121.169	121.222	121.275	121.328	121.381	121.434	121.487	121.540	121.593	121.646	121.699	121.752	121.805	121.858	121.911	121.964	122.017	122.070	122.123	122.176	122.229	122.282	122.335	122.388	122.441	122.494	122.547	122.600	122.653	122.706	122.759	122.812	122.865	122.918	122.971	123.024	123.077	123.130	123.183	123.236	123.289	123.342	123.395	123.448	123.501	123.554	123.607	123.660	123.713	123.766	123.819	123.872	123.925	123.978	124.031	124.084	124.137	124.190	124.243	124.296	124.349	124.402	124.455	124.508	124.561	124.614	124.667	124.720	124.773	124.826	124.879	124.932	124.985	125.038	125.091	125.144	125.197	125.250	125.303	125.356	125.409	125.462	125.515	125.568	125.621	125.674	125.727	125.780	125.833	125.886	125.939	125.992	126.045	126.098	126.151	126.204	126.257	126.310	126.363	126.416	126.469	126.522	126.575	126.628	126.681	126.734	126.787	126.840	126.893	126.946	126.999	127.052	127.105	127.158	127.211	127.264	127.317	127.370	127.423	127.476	127.529	127.582	127.635	127.688	127.741	127.794	127.847	127.900	127.953	128.006	128.059	128.112	128.165	128.218	128.271	128.324	128.377	128.430	128.483	128.536	128.589	128.642	128.695	128.748	128.801	128.854	128.907	128.960	129.013	129.066	129.119	129.172	129.225	129.278	129.331	129.384	129.437	129.490	129.543	129.596	129.649	129.702	129.755	129.808	129.861	129.914	129.967	130.020	130.073	130.126	130.179	130.232	130.285	130.338	130.391	130.444	130.497	130.550	130.603	130.656	130.709	130.762	130.815	130.868	130.921	130.974	131.027	131.080	131.133	131.186	131.239	131.292	131.345	131.398	131.451	131.504	131.557	131.610	131.663	131.716	131.769	131.822	131.875	131.928	131.981	132.034	132.087	132.140	132.193	132.246	132.299	132.352	132.405	132.458	132.511	132.564	132.617	132.670	132.723	132.776	132.829	132.882	132.935	132.988	133.041	133.094	133.147	133.200	133.253	133.306	133.359	133.412	133.465	133.518	133.571	133.624	133.677	133.730	133.783	133.836	133.889	133.942	133.995	134.048	134.101	134.154	134.207	134.260	134.313	134.366	134.419	134.472	134.525	134.578	134.631	134.684	134.737	134.790	134.843	134.896	134.949	135.002	135.055	135.108	135.161	135.214	135.267	135.320	135.373	135.426	135.479	135.532	135.585	135.638	135.691	135.744	135.797	135.850	135.903	135.956	136.009	136.062	136.115	136.168	136.221	136.274	136.327	136.380	136.433	136.486	136.539	136.592	136.645	136.698	136.751	136.804	136.857	136.910	136.963	137.016	137.069	137.122	137.175	137.228	137.281	137.334	137.387	137.440	137.493	137.546	137.599	137.652	137.705	137.758	137.811	137.864	137.917	137.970	138.023	138.076	138.129	138.182	138.235	138.288	138.341	138.394	138.447	138.500	138.553	138.606	138.659	138.712	138.765	138.818	138.871	138.924	138.977	139.030	139.083	139.136	139.189	139.242	139.295	139.348	139.401	139.454	139.507	139.560	139.613	139.666	139.719	139.772	139.825	139.878	139.931	139.984	140.037	140.090	140.143	140.196	140.249	140.302	140.355	140.408	140.461	140.514	140.567	140.620	140.673	140.726	140.779	140.832	140.885	140.938	140.991	141.044	141.097	141.150	141.203	141.256	141.309	141.362	141.415	141.468	141.521	141.574	141.627	141.680	141.733	141.786	141.839	141.892	141.945	141.998	142.051	142.104	142.157	142.210	142.263	142.316	142.369	142.422	142.475	142.528	142.581	142.634	142.687	142.740	142.793	142.846	142.899	142.952	143.005	143.058	143.111	143.164	143.217	143.270	143.323	143.376	143.429	143.482	143.535	143.588	143.641	143.694	143.747	143.800	143.853	143.906	143.959	144.012	144.065	144.118	144.171	144.224	144.277	144.330	144.383	144.436	144.489	144.542	144.595	144.648	144.701	144.754	144.807	144.860	144.913	144.966	145.019	145.072	145.125	145.178	145.231	145.284	145.337	145.390	145.443	145.496	145.549	145.602	145.655	145.708	145.761	145.814	145.867	145.920	145.973	146.026	146.079	146.132	146.185	146.238	146.291	146.344	146.397	146.450	146.503	146.556	146.609	146.662	146.715	146.768	146.821	146.874	146.927	146.980	147.033	147.086	147.139	147.192	147.245	147.298	147.351	147.404	147.457	147.510	147.563	147.616	147.669	147.722	147.775	147.828	147.881	147.934	147.987	148.040	148.093	148.146	148.199	148.252	148.305	148.358	148.411	148.464	148.517	148.570	148.623	148.676	148.729	148.782	148.835	148.888	148.941	148.994	149.047	149.100	149.153	149.206	149.259	149.312	149.365	149.418	149.471	149.524	149.577	149.630	149.683	149.736	149.789	149.842	149.895	149.948	149.999	150.052	150.105	150.158	150.211	150.264	150.317	150.370	150.423	150.476	150.529	150.582	150.635	150.688	150.741	150.794	150.847	150.900	150.953	151.006	151.059	151.112	151.165	151.218	151.271	151.324	151.377	151.430	151.483	151.536	151.589	151.642	151.695	151.748	151.801	151.854	151.907	151.960	152.013	152.066	152.119	152.172	152.225	152.278	152.331	152.384	152.437	152.490	152.543	152.596	152.649	152.702	152.755	152.808	152.861	152.914	152.967	153.020	153.073	153.126	153.179	153.232	153.285	153.338	153.391	153.444	153.497	153.550	153.603	153.656	153.709	153.762	153.815	153.868	153.921	153.974	154.027	154.080	154.133	154.186	154.239	154.292	154.345	154.398	154.451	154.504	154.557	154.610	154.663	154.716	154.769	154.822	154.875	154.928	154.981	155.034	155.087	155.140	155.193	155.246	155.299	155.352	155.405	155.458	155.511	155.564	155.617	155.670	155.723	155.776	155.829	155.882	155.935	155.988	156.041	156.094	156.147	156.200	156.253	156.306	156.359	156.412	156.465	156.518	156.571	156.624	156.677	156.730	156.783	156.836	156.889	156.942	156.995	157.048	157.101	157.154	157.207	157.260	157.313	157.366	157.419	157.472	157.525	157.578	157.631	157.684	157.737	157.790	157.843	157.896	157.949	158.002	158.055	158.108	158.161	158.214	158.267	158.320	158.373	158.426	158.479	158.532	158.585	158.638	158.691	158.744	158.797	158.850	158.903	158.956	159.009	159.062	159.115	159.168	159.221	159.274	159.327	159.380	159.433	159.486	159.539	159.592	159.645	159.698	159.751	159.804	159.857	159.910	159.963	160.016	160.069	160.122	160.175	160.228	160.281	160.334	160.387	160.440	160.493	160.546	160.599	160.652	160.705	160.758	160.811	160.864	160.917	160.970	161.023	161.076	161.129	161.182	161.235	161.288	161.341	161.394	161.447	161.500	161.553	161.606	161.659	161.712	161.765	161.818	161.871	161.924	161.977	162.030	162.083	162.136	162.189	162.242	162.295	162.348	162.401	162.454	162.507	162.560	162.613	162.666	162.719	162.772	162.
---------------------------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	------



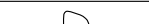
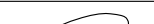
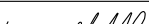
Curve No.	12	Chainage:	6386.858
Radius(m)	750.000	Ls1(m)	75.000
Lc(m)	81.277	Ls2(m)	75.000
Delta(deg)	11.9386	LT(m)	115.952
Es(m)	1.102	e(%)	5.00%
Ts(m)	115.952	V(kmph)	100

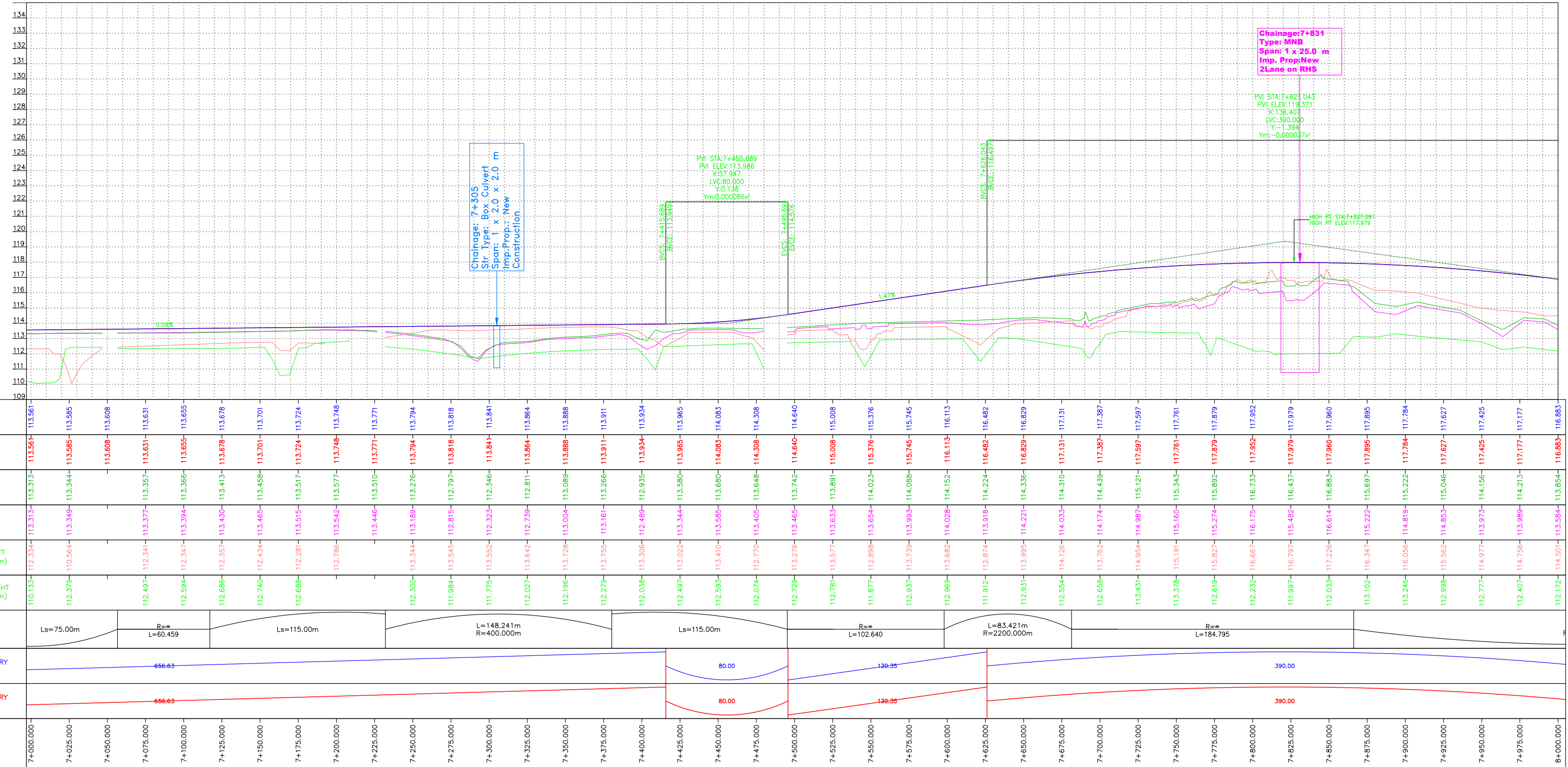
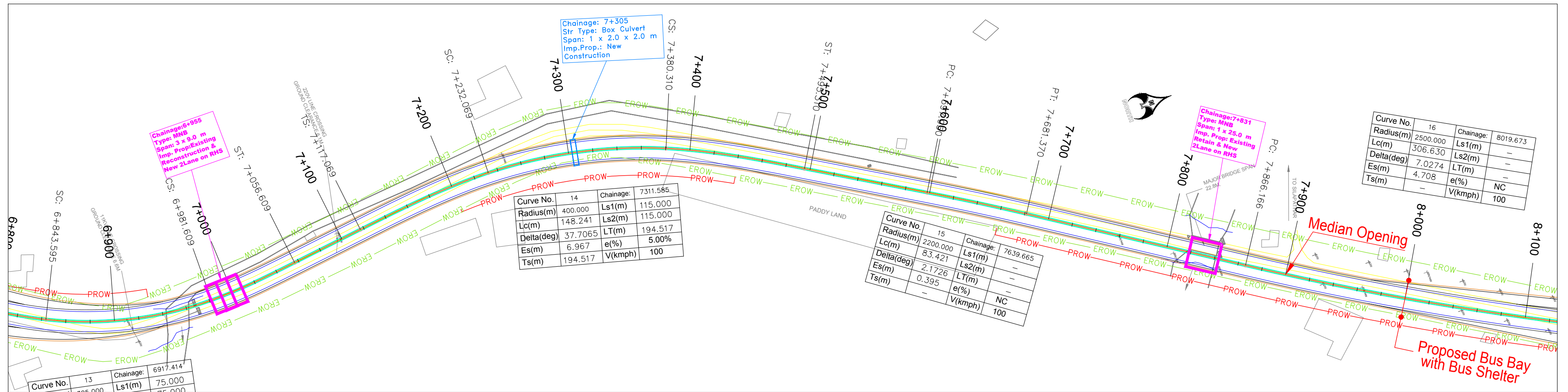
Curve No.	13	Chainage:	6917.414
Radius(m)	305.000	Ls1(m)	75.000
Lc(m)	138.015	Ls2(m)	75.000
Delta(deg)	40.0159	LT(m)	148.820
Es(m)	7.977	e(%)	7.00%
Ts(m)	148.820	V(kmph)	80



STATION (m)	PROPOSED LME DESIGN ELEV. (m)	PROPOSED RME PROFILE LEVEL (m)	EXISTING GROUND LEVEL LME (m)	EXISTING GROUND LEVEL RME (m)	EXISTING 20M LEFT GROUND LEVEL (m)	EXISTING 20M RIGHT GROUND LEVEL (m)
6+000.000	112.835	112.835	112.845	112.865	109.194	111.823
6+025.000	112.839	112.839	112.852	112.872	109.932	111.790
6+050.000	113.010	113.010	112.717	112.717	111.613	111.885
6+075.000	113.046	113.046	112.801	112.757	110.172	111.647
6+100.000	113.099	113.099	112.866	112.816	109.821	111.805
6+125.000	113.069	113.069	112.809	112.862	109.822	111.962
6+150.000	113.079	113.079	112.932	112.894	112.894	111.889
6+175.000	113.099	113.099	112.936	112.916	110.597	111.712
6+200.000	113.099	113.099	112.927	112.944	111.192	111.906
6+225.000	113.109	113.109	112.973	112.952	110.932	112.049
6+250.000	113.119	113.119	112.969	112.961	110.588	112.137
6+275.000	113.129	113.129	112.973	112.972	110.585	111.905
6+300.000	113.136	113.136	112.982	112.971	111.374	112.145
6+325.000	113.146	113.146	113.030	112.965	-	112.162
6+350.000	113.156	113.156	113.018	112.968	109.901	111.784
6+375.000	113.166	113.166	113.034	113.002	112.090	111.822
6+400.000	113.178	113.178	113.036	113.021	111.890	111.429
6+425.000	113.186	113.186	113.083	113.054	112.429	112.275
6+450.000	113.196	113.196	113.076	113.060	111.996	112.684
6+475.000	113.208	113.208	112.999	112.987	112.294	112.103
6+500.000	113.218	113.218	-	-	-	-
6+525.000	113.228	113.228	112.893	112.893	112.054	112.088
6+550.000	113.237	113.237	112.887	112.901	112.222	112.156
6+575.000	113.247	113.247	112.910	112.928	111.822	111.886
6+600.000	113.257	113.257	112.945	112.960	112.260	112.222
6+625.000	113.267	113.267	112.980	112.992	112.292	112.233
6+650.000	113.277	113.277	113.015	113.024	112.058	111.981
6+675.000	113.287	113.287	113.050	113.057	111.746	111.665
6+700.000	113.297	113.297	113.095	113.097	112.463	111.744
6+725.000	113.310	113.310	113.131	113.166	112.662	112.074
6+750.000	113.326	113.326	113.157	113.127	112.869	112.267
6+775.000	113.351	113.351	113.116	113.064	112.993	111.977
6+800.000	113.375	113.375	113.077	112.977	110.443	112.235
6+825.000	113.398	113.398	112.939	112.950	111.029	111.862
6+850.000	113.421	113.421	112.911	112.914	111.810	111.894
6+875.000	113.445	113.445	112.729	112.792	111.914	112.892
6+900.000	113.468	113.468	112.631	112.726	111.885	113.273
6+925.000	113.491	113.491	111.894	112.309	111.730	112.855
6+950.000	113.515	113.515	109.725	109.725	111.851	106.599
6+975.000	113.538	113.538	113.275	113.283	112.291	109.996
6+1000.000	113.561	113.561	113.513	113.513	112.334	110.133

[illegible]

CLIENT :  NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS) GOVERNMENT OF INDIA	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)	DESIGN CONSULTANT:  VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, Park Centra, Sector-30, NH-8 Gurgaon-122001, Haryana, India CIN- U74140HR2004PTC046918 Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in, www.voyants.in	Detailed Project Report			DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	TITLE : Plan and Profile (km 6+000 to km 7+000)
			PD/PS	SS/SP	DGR	SKC	   			
			REV.	DATE	DESCRIPTION	SCALE :		HOR 1:2500 VER 1:250	SHEET SIZE	
										DRG. No. : VSPL/1718-082/DPR/PKG-4/NH-515/S1/PP-07 REVISION:R1 March 2023



CLIENT :

NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA

PROJECT :

CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)

DESIGN CONSULTANT:

VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
CIN: U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION

DESIGNED BY

PD/PS

DRAWN BY

SS/SP

CHECKED BY

DGR

APPROVED BY

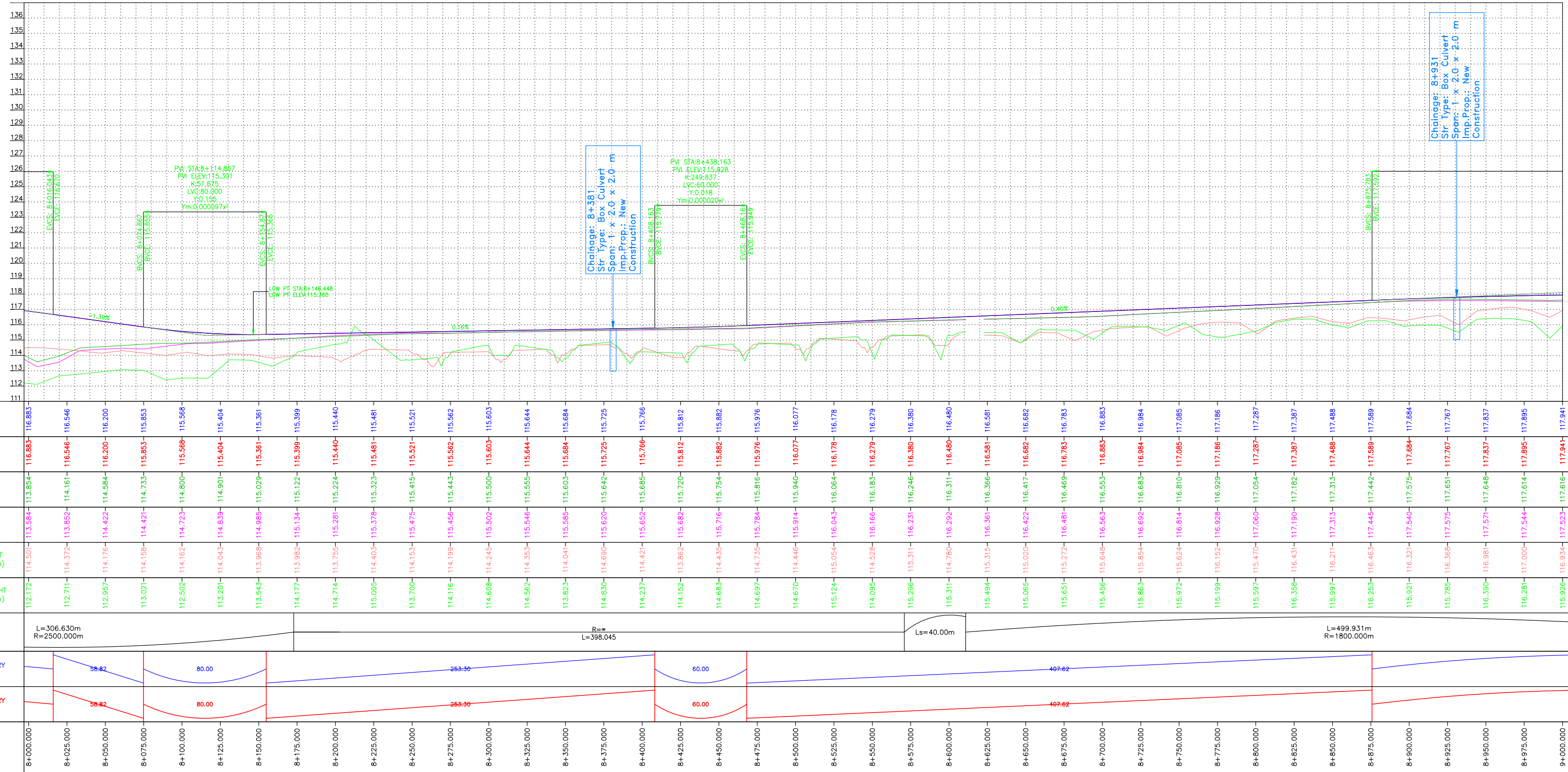
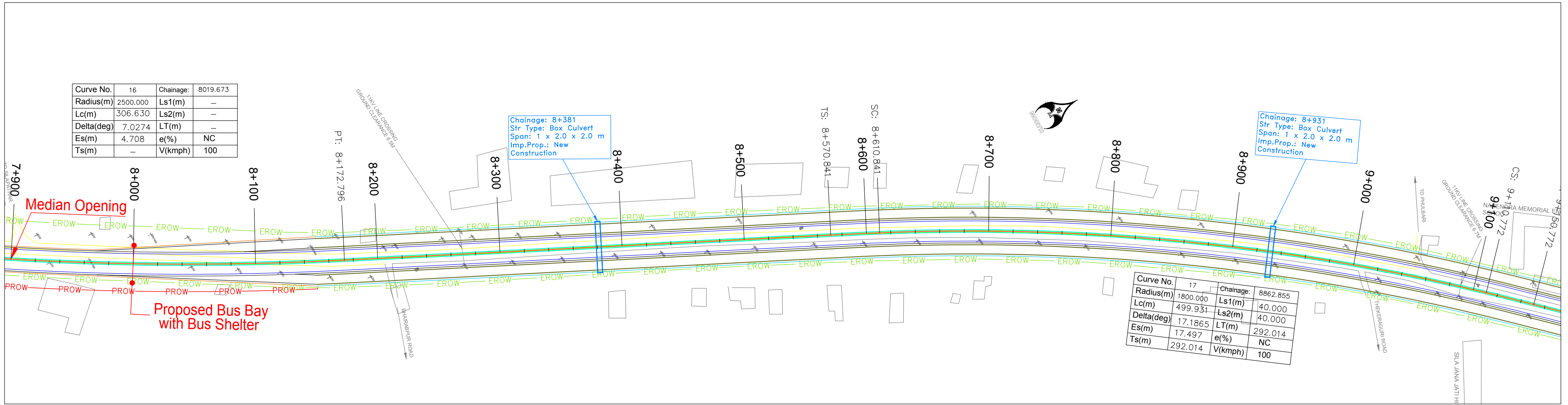
SKC

TITLE :

Plan and Profile
(km 7+000 to km 8+000)

DRG. No. :
VSPL/1718-082/DPR/PKG-4/NH-51/S1/PP-08

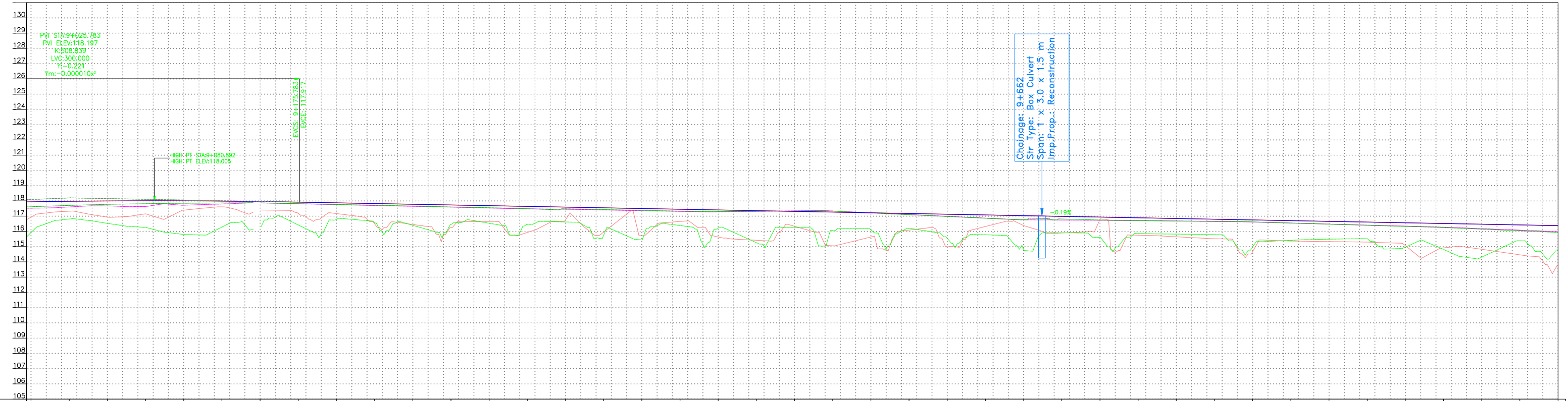
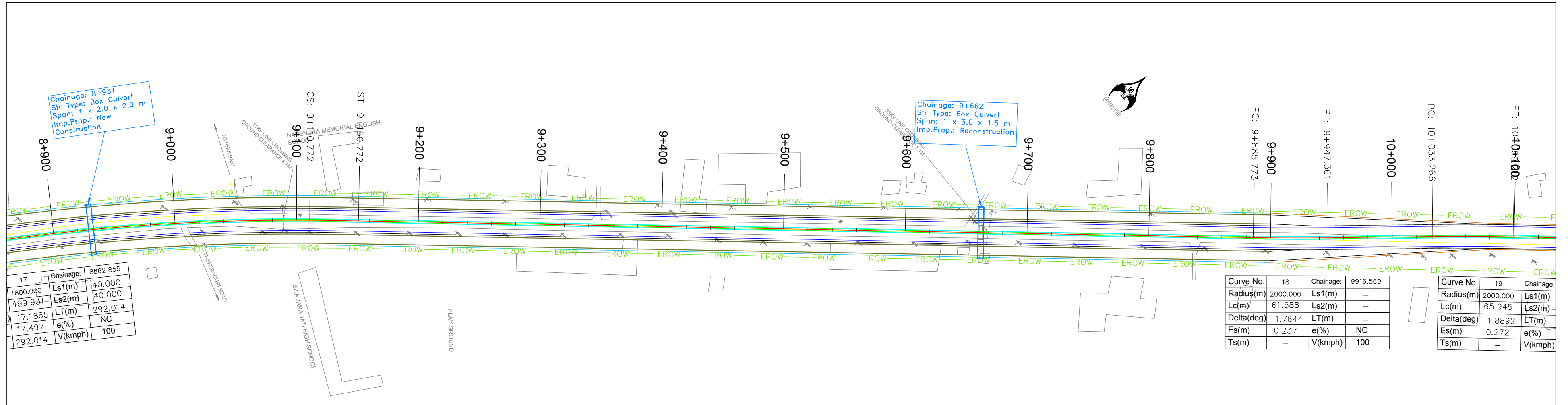
REVISION:R1
March 2023



CLIENT :  NATIONAL HIGHWAYS AND INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. (MINISTRY OF ROAD TRANSPORT AND HIGHWAYS) GOVERNMENT OF INDIA	PROJECT : CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR DEVELOPMENT OF ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA (LOT-1:PACKAGE IV)	DESIGN CONSULTANT:  VOYANTS SOLUTIONS PVT LTD. 403, 4th Floor, Park Centra, Sector-30, NH-8 Gurgaon-122001, Haryana, India CIN: U74140HR2004PTC046918 Ph: 0124-4598200, Fax: 0124-4019051, E-mail: info@voyants.in, www.voyants.in	Detailed Project Report				DESIGNED BY PD/PS	DRAWN BY SS/SP	CHECKED BY DGR	APPROVED BY SKC	TITLE : Plan and Profile (km 8+000 to km 9+000) DRG. No. : VSPL/1718-082/DPR/PKG-4/NH-515/S1/PP-09 REVISION:R1 March 2023
											
							SCALE :	HOR 1:2500 VER 1:250	SHEET SIZE	A2	
							REV.	DATE	DESCRIPTION		

← DHEMAJI

OYAN →



PROPOSED LME DESIGN EDGE (m)	117.941	117.941	117.975	117.996	118.005	118.002	117.986	117.958	117.918	117.872	117.825	117.779	117.732	117.685	117.639	117.592	117.545	117.499	117.452	117.406	117.359	117.312	117.266	117.219	117.172	117.126	117.079	117.033	116.986	116.939	116.893	116.846	116.799	116.753	116.706	116.660	116.613	116.566	116.520	116.473	116.427	116.380	
PROPOSED RME PROFILE LEVEL (m)	117.941	117.941	117.975	117.996	118.005	118.002	117.986	117.958	117.918	117.872	117.825	117.779	117.732	117.685	117.639	117.592	117.545	117.499	117.452	117.406	117.359	117.312	117.266	117.219	117.172	117.126	117.079	117.033	116.986	116.939	116.893	116.846	116.799	116.753	116.706	116.660	116.613	116.566	116.520	116.473	116.427	116.380	
EXISTING GROUND LEVEL LME (m)	117.616	117.616	117.702	117.773	117.815	117.844	117.863	117.879	117.886	117.892	117.897	117.901	117.904	117.906	117.908	117.909	117.910	117.911	117.912	117.913	117.914	117.915	117.916	117.917	117.918	117.919	117.920	117.921	117.922	117.923	117.924	117.925	117.926	117.927	117.928	117.929	117.930	117.931	117.932	117.933	117.934	117.935	
EXISTING GROUND LEVEL RME (m)	117.616	117.616	117.702	117.773	117.815	117.844	117.863	117.879	117.886	117.892	117.897	117.901	117.904	117.906	117.908	117.909	117.910	117.911	117.912	117.913	117.914	117.915	117.916	117.917	117.918	117.919	117.920	117.921	117.922	117.923	117.924	117.925	117.926	117.927	117.928	117.929	117.930	117.931	117.932	117.933	117.934	117.935	
EXISTING 20M LEFT GROUND LEVEL (m)	116.934	117.322	117.603	117.670	117.702	117.716	117.729	117.741	117.751	117.759	117.766	117.772	117.777	117.781	117.784	117.787	117.789	117.791	117.792	117.793	117.794	117.795	117.796	117.797	117.798	117.799	117.800	117.801	117.802	117.803	117.804	117.805	117.806	117.807	117.808	117.809	117.810	117.811	117.812	117.813	117.814	117.815	
EXISTING 20M RIGHT GROUND LEVEL (m)	115.926	116.812	117.322	117.603	117.670	117.702	117.716	117.729	117.741	117.751	117.759	117.766	117.772	117.777	117.781	117.784	117.787	117.789	117.791	117.792	117.793	117.794	117.795	117.796	117.797	117.798	117.799	117.800	117.801	117.802	117.803	117.804	117.805	117.806	117.807	117.808	117.809	117.810	117.811	117.812	117.813	117.814	117.815
HORIZONTAL ALIGNMENT	Ls=40.00m																																										
VERTICAL GEOMETRY LME	300.00																																										
VERTICAL GEOMETRY RME	300.00																																										
STATION (m)	9+000.000	9+025.000	9+050.000	9+075.000	9+100.000	9+125.000	9+150.000	9+175.000	9+200.000	9+225.000	9+250.000	9+275.000	9+300.000	9+325.000	9+350.000	9+375.000	9+400.000	9+425.000	9+450.000	9+475.000	9+500.000	9+525.000	9+550.000	9+575.000	9+600.000	9+625.000	9+650.000	9+675.000	9+700.000	9+725.000	9+750.000	9+775.000	9+800.000	9+825.000	9+850.000	9+875.000	9+900.000	9+925.000	9+950.000	9+975.000	10+000.000		

CLIENT :



**NATIONAL HIGHWAYS AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.**
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS)
GOVERNMENT OF INDIA

PROJECT :

**CONSULTANCY SERVICES FOR PREPARATION OF
DETAILED PROJECT REPORT FOR DEVELOPMENT OF
ECONOMIC CORRIDORS, INTER CORRIDORS AND FEEDER
ROUTES TO IMPROVE THE EFFICIENCY OF FREIGHT
MOVEMENTS IN INDIA UNDER BHARATMALA PARIYOJANA
(LOT-1:PACKAGE IV)**

DESIGN CONSULTANT:

VOYANTS SOLUTIONS PVT LTD.
403, 4th Floor, Park Centra,
Sector-30, NH-8
Gurgaon-122001, Haryana, India
CIN: U74140HR2004PTC046918
Ph: 0124-4598200, Fax: 0124-4019051,
E-mail: info@voyants.in, www.voyants.in

Detailed Project Report

REV.	DATE	DESCRIPTION
------	------	-------------

DESIGNED BY

PD/PS	SS/SP	DGR	SKC

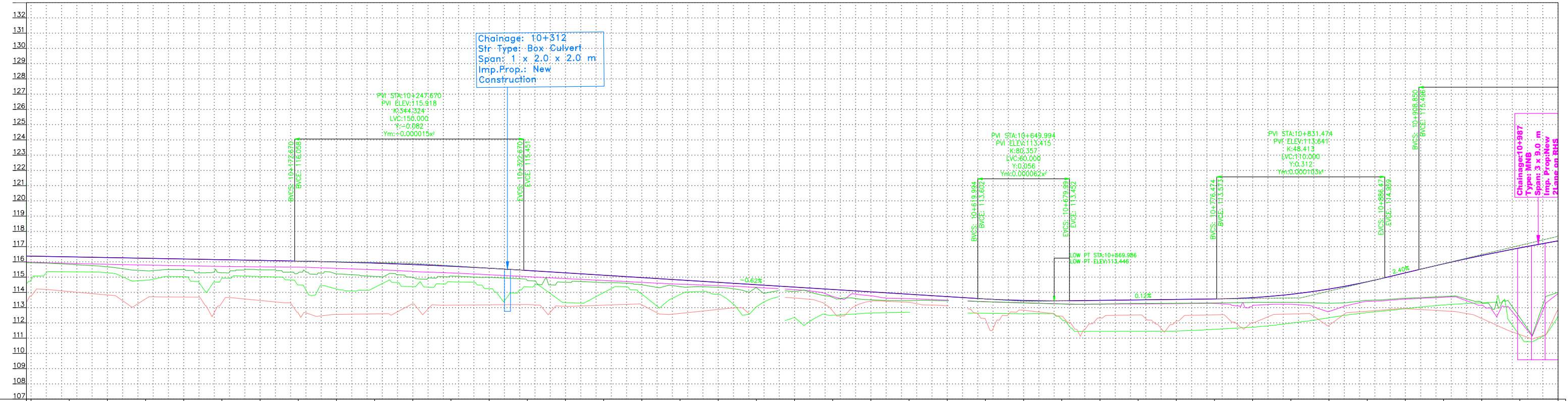
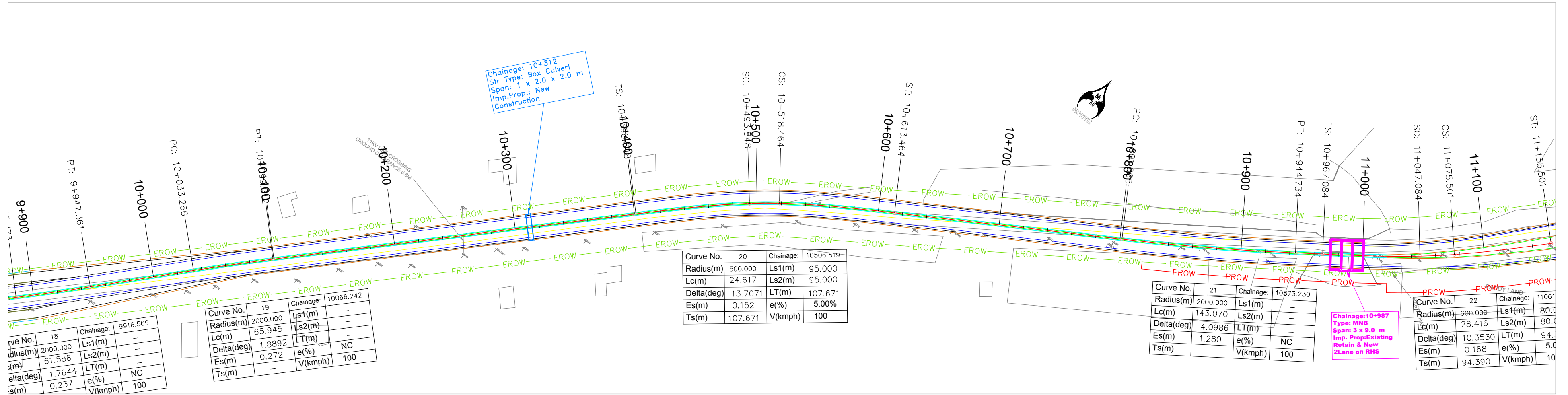
SCALE :	HOR 1:2500 VER 1:250	SHEET SIZE	A2
---------	-------------------------	------------	----

TITLE :

Plan and Profile
(km 9+000 to km 10+000)

DRG. No. :
VSPL/1718-082/DPR/PKG-4/NH-515/S1/PP-10

REVISION:R1
March 2023



PROPOSED LME DESIGN EDGE (m)	116.380	116.333	116.287	116.240	116.193	116.147	116.100	116.053	115.996	115.921	115.827	115.715	115.585	115.437	115.281	115.126	114.970	114.815	114.659	114.504	114.348	114.193	114.037	113.882	113.726	113.572	113.471	113.348	113.271	113.150	113.040	112.920	112.800	112.680	112.560	112.440	112.320	112.200	112.080	111.960	111.840	111.720	111.600	111.480	111.360	111.240	111.120	111.000	110.880	110.760	110.640	110.520	110.400	110.280	110.160	110.040	109.920	109.800	109.680	109.560	109.440	109.320	109.200	109.080	108.960	108.840	108.720	108.600	108.480	108.360	108.240	108.120	108.000	107.880	107.760	107.640	107.520	107.400	107.280	107.160	107.040	106.920	106.800	106.680	106.560	106.440	106.320	106.200	106.080	105.960	105.840	105.720	105.600	105.480	105.360	105.240	105.120	105.000	104.880	104.760	104.640	104.520	104.400	104.280	104.160	104.040	103.920	103.800	103.680	103.560	103.440	103.320	103.200	103.080	102.960	102.840	102.720	102.600	102.480	102.360	102.240	102.120	102.000	101.880	101.760	101.640	101.520	101.400	101.280	101.160	101.040	100.920	100.800	100.680	100.560	100.440	100.320	100.200	100.080	99.960	99.840	99.720	99.600	99.480	99.360	99.240	99.120	99.000	98.880	98.760	98.640	98.520	98.400	98.280	98.160	98.040	97.920	97.800	97.680	97.560	97.440	97.320	97.200	97.080	96.960	96.840	96.720	96.600	96.480	96.360	96.240	96.120	96.000	95.880	95.760	95.640	95.520	95.400	95.280	95.160	95.040	94.920	94.800	94.680	94.560	94.440	94.320	94.200	94.080	93.960	93.840	93.720	93.600	93.480	93.360	93.240	93.120	93.000	92.880	92.760	92.640	92.520	92.400	92.280	92.160	92.040	91.920	91.800	91.680	91.560	91.440	91.320	91.200	91.080	90.960	90.840	90.720	90.600	90.480	90.360	90.240	90.120	90.000	89.880	89.760	89.640	89.520	89.400	89.280	89.160	89.040	88.920	88.800	88.680	88.560	88.440	88.320	88.200	88.080	87.960	87.840	87.720	87.600	87.480	87.360	87.240	87.120	87.000	86.880	86.760	86.640	86.520	86.400	86.280	86.160	86.040	85.920	85.800	85.680	85.560	85.440	85.320	85.200	85.080	84.960	84.840	84.720	84.600	84.480	84.360	84.240	84.120	84.000	83.880	83.760	83.640	83.520	83.400	83.280	83.160	83.040	82.920	82.800	82.680	82.560	82.440	82.320	82.200	82.080	81.960	81.840	81.720	81.600	81.480	81.360	81.240	81.120	81.000	80.880	80.760	80.640	80.520	80.400	80.280	80.160	80.040	79.920	79.800	79.680	79.560	79.440	79.320	79.200	79.080	78.960	78.840	78.720	78.600	78.480	78.360	78.240	78.120	78.000	77.880	77.760	77.640	77.520	77.400	77.280	77.160	77.040	76.920	76.800	76.680	76.560	76.440	76.320	76.200	76.080	75.960	75.840	75.720	75.600	75.480	75.360	75.240	75.120	75.000	74.880	74.760	74.640	74.520	74.400	74.280	74.160	74.040	73.920	73.800	73.680	73.560	73.440	73.320	73.200	73.080	72.960	72.840	72.720	72.600	72.480	72.360	72.240	72.120	72.000	71.880	71.760	71.640	71.520	71.400	71.280	71.160	71.040	70.920	70.800	70.680	70.560	70.440	70.320	70.200	70.080	69.960	69.840	69.720	69.600	69.480	69.360	69.240	69.120	69.000	68.880	68.760	68.640	68.520	68.400	68.280	68.160	68.040	67.920	67.800	67.680	67.560	67.440	67.320	67.200	67.080	66.960	66.840	66.720	66.600	66.480	66.360	66.240	66.120	66.000	65.880	65.760	65.640	65.520	65.400	65.280	65.160	65.040	64.920	64.800	64.680	64.560	64.440	64.320	64.200	64.080	63.960	63.840	63.720	63.600	63.480	63.360	63.240	63.120	63.000	62.880	62.760	62.640	62.520	62.400	62.280	62.160	62.040	61.920	61.800	61.680	61.560	61.440	61.320	61.200	61.080	60.960	60.840	60.720	60.600	60.480	60.360	60.240	60.120	60.000	59.880	59.760	59.640	59.520	59.400	59.280	59.160	59.040	58.920	58.800	58.680	58.560	58.440	58.320	58.200	58.080	57.960	57.840	57.720	57.600	57.480	57.360	57.240	57.120	57.000	56.880	56.760	56.640	56.520	56.400	56.280	56.160	56.040	55.920	55.800	55.680	55.560	55.440	55.320	55.200	55.080	54.960	54.840	54.720	54.600	54.480	54.360	54.240	54.120	54.000	53.880	53.760	53.640	53.520	53.400	53.280	53.160	53.040	52.920	52.800	52.680	52.560	52.440	52.320	52.200	52.080	51.960	51.840	51.720	51.600	51.480	51.360	51.240	51.120	51.000	50.880	50.760	50.640	50.520	50.400	50.280	50.160	50.040	49.920	49.800	49.680	49.560	49.440	49.320	49.200	49.080	48.960	48.840	48.720	48.600	48.480	48.360	48.240	48.120	48.000	47.880	47.760	47.640	47.520	47.400	47.280	47.160	47.040	46.920	46.800	46.680	46.560	46.440	46.320	46.200	46.080	45.960	45.840	45.720	45.600	45.480	45.360	45.240	45.120	45.000	44.880	44.760	44.640	44.520	44.400	44.280	44.160	44.040	43.920	43.800	43.680	43.560	43.440	43.320	43.200	43.080	42.960	42.840	42.720	42.600	42.480	42.360	42.240	42.120	42.000	41.880	41.760	41.640	41.520	41.400	41.280	41.160	41.040	40.920	40.800	40.680	40.560	40.440	40.320	40.200	40.080	39.960	39.840	39.720	39.600	39.480	39.360	39.240	39.120	39.000	38.880	38.760	38.640	38.520	38.400	38.280	38.160	38.040	37.920	37.800	37.680	37.560	37.440	37.320	37.200	37.080	36.960	36.840	36.720	36.600	36.480	36.360	36.240	36.120	36.000	35.880	35.760	35.640	35.520	35.400	35.280	35.160	35.040	34.920	34.800	34.680	34.560	34.440	34.320	34.200	34.080	33.960	33.840	33.720	33.600	33.480	33.360	33.240	33.120	33.000	32.880	32.760	32.640	32.520	32.400	32.280	32.160	32.040	31.920	31.800	31.680	31.560	31.440	31.320	31.200	31.080	30.960	30.840	30.720	30.600	30.480	30.360	30.240	30.120	30.000	29.880	29.760	29.640	29.520	29.400	29.280	29.160	29.040	28.920	28.800	28.680	28.560	28.440	28.320	28.200	28.080	27.960	27.840	27.720	27.600	27.480	27.360	27.240	27.120	27.000	26.880	26.760	26.640	26.520	26.400	26.280	26.160	26.040	25.920	25.800	25.680	25.560	25.440	25.320	25.200	25.080	24.960	24.840	24.720	24.600	24.480	24.360	24.240	24.120	24.000	23.880	23.760	23.640	23.520	23.400	23.280	23.160	23.040	22.920	22.800	22.680	22.560	22.440	22.320	22.200	22.080	21.960	21.840	21.720	21.600	21.480	21.360	21.240	21.120	21.000	20.880	20.760	20.640	20.520	20.400	20.280	20.160	20.040	19.920	19.800	19.680	19.560	19.440	19.320	19.200	19.080	18.960	18.840	18.720	18.600	18.480	18.360	18.240	18.120	18.000	17.880	17.760	17.640	17.520	17.400	17.280	17.160	17.040	16.920	16.800	16.680	16.560	16.440	16.320	16.200	16.080	15.960	15.840	15.720	15.600	15.480	15.360	15.240	15.120	15.000	14.880	14.760	14.640	14.520	14.400	14.280	14.160	14.040	13.920	13.800	13.680	13.560	13.440	13.320	13.200	13.080	12.960	12.840	12.720	12.600	12.480	12.360	12.240	12.120	12.000	11.880	11.760	11.640	11.520	11.400	11.280	11.160	11.040	10.920	10.800	10.680	10.560	10.440	10.320	10.200	10.080	9.960	9.840	9.720	9.600	9.480	9.360	9.240	9.120	9.000	8.880	8.760	8.640	8.520	8.400	8.280	8.160	8.040	7.920	7.800	7.680	7.560	7.440	7.320	7.200	7.080	6.960	6.840	6.720	6.600	6.480	6.360	6.240	6.120	6.000	5.880	5.760	5.640	5.520	5.400	5.280	5.160	5.040	4.920	4.800	4.680	4.560	4.440	4.320	4.200	4.080	3.960	3.840	3.720	3.600	3.480	3.360	3.240	3.120	3.000	2.880	2.760	2.640	2.520	2.400	2.280	2.160	2.040	1.920	1.800	1.680	1.560	1.440	1.320	1.200	1.080	0.960	0.840	0.720	0.600	0.480	0.360	0.240	0.120	0.000	-0.120	-0.240	-0.360	-0.480	-0.600	-0.720	-0.840	-0.960	-1.080	-1.200	-1.320	-1.440	-1.560	-1.680	-1.800	-1.920	-2.040	-2.160	-2.280	-2.400	-2.520	-2.640	-2.760	-2.880	-3.000	-3.120	-3.240	-3.360	-3.480	-3.600	-3.720	-3.840	-3.960	-4.080	-4.200	-4.320	-4.440	-4.560	-4.680	-4.800	-4.920	-5.040	-5.160	-5.280	-5.400	-5.520	-5.640	-5.760	-5.880	-6.000	-6.120	-6.240	-6.360	-6.480	-6.600	-6.720	-6.840	-6.960	-7.080	-7.200	-7.320	-7.440	-7.560	-7.680	-7.800	-7.920	-8.040	-8.160	-8.280	-8.400	-8.520	-8.640	-8.760	-8.880	-9.000	-9.120	-9.240	-9.360	-9.480	-9.600	-9.720	-9.840	-9.960	-10.080	-10.200	-10.320	-10.440	-10.560	-10.680	-10.800	-10.920	-11.040	-11.160	-11.280	-11.400	-11.520	-11.640	-11.760	-11.880	-12.000	-12.120	-12.240	-12.360	-12.480	-12.600	-12.720	-12.840	-12.960	-13.080	-13.200
---------------------------------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------