



National Highways & Infrastructure Development Corporation Limited

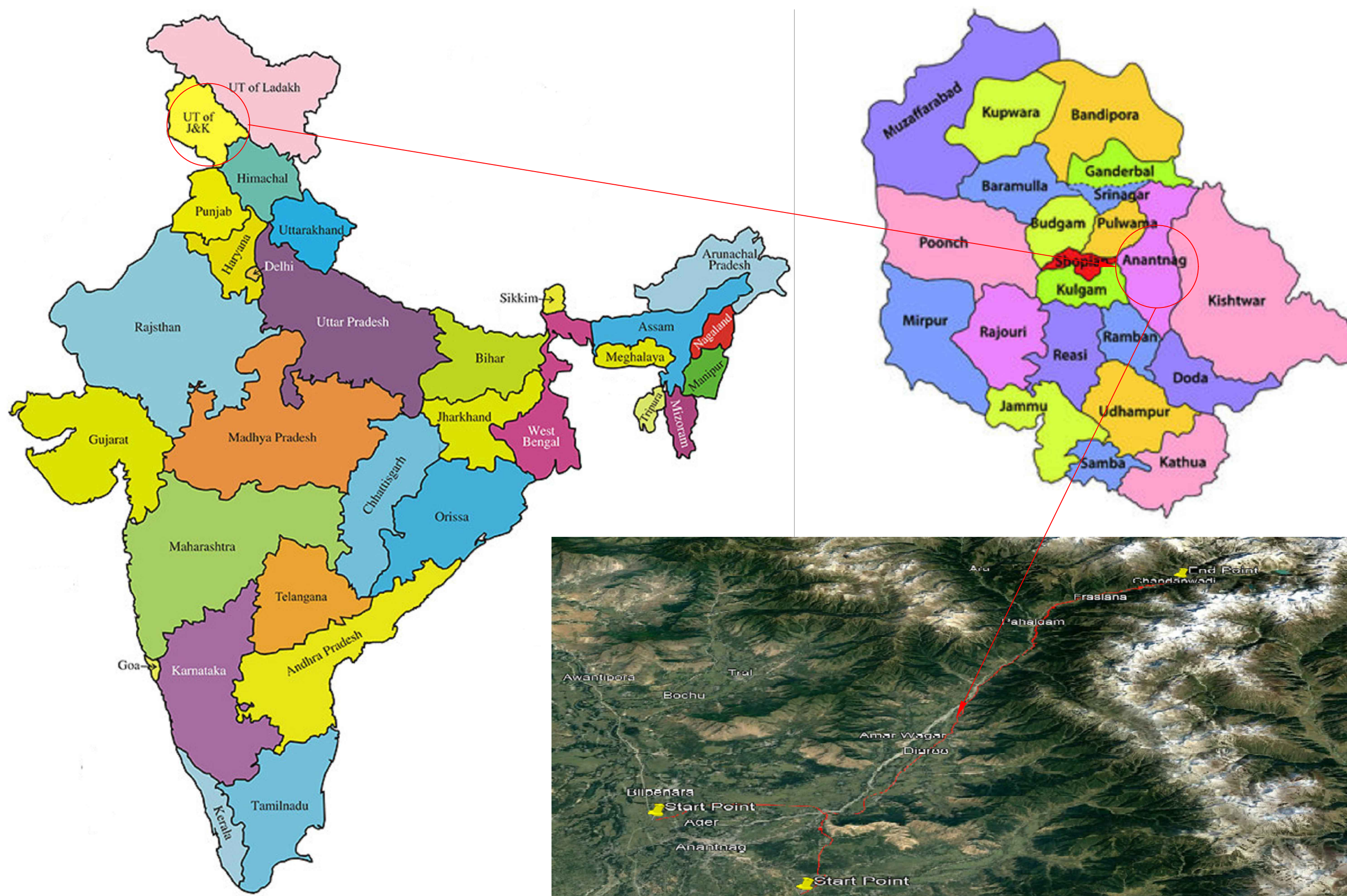
Ministry of Road Transport & Highways, Govt. of India

PROJECT:

Consultancy Services for Preparation of Detailed Project Report for 2 Laning of Khanabal – Baltal section on NH-501 (Length - 90km) with paved shoulder in the UT of Jammu & Kashmir.

DETAILED PROJECT REPORT

HORIZONTAL ALIGNMENT AND LONGITUDINAL PROFILE (PACKAGE 2) VOLUME-IX DRAWINGS VOLUME (HIGHWAY)



CONSULTANT:



REDECON (I) Pvt. Ltd.
REDECON HOUSE" E-49/4,
Okhla Phase-II, New Delhi-110020

DATE- JAN. 2024

HORIZONTAL CURVE REPORT PKG-2

REV.	DATE	DESCRIPTION	ENG.	DM

CLIENT:



NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:



REDECON (I) Pvt. Ltd.
"REDECON HOUSE" E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

“Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh”.FROM
KHANABAL TO BALTAL(NH-501)

PACKAGE-2 SEER HAMDAN TO PAHALGAM

DRAWING TITLE:

HORIZONTAL CURVE REPORT(HCR)

DRAWING No:
NHIDCL/J&K/NH-501/PKG-2/HCR/S-01

DRAWN

DESIGNED

CHECKED

APPROVED

SHEET No:

01 OF 01

DATE:

JAN. 2024

SCALE:

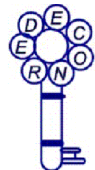
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PAPER SIZE:
A2

REV:
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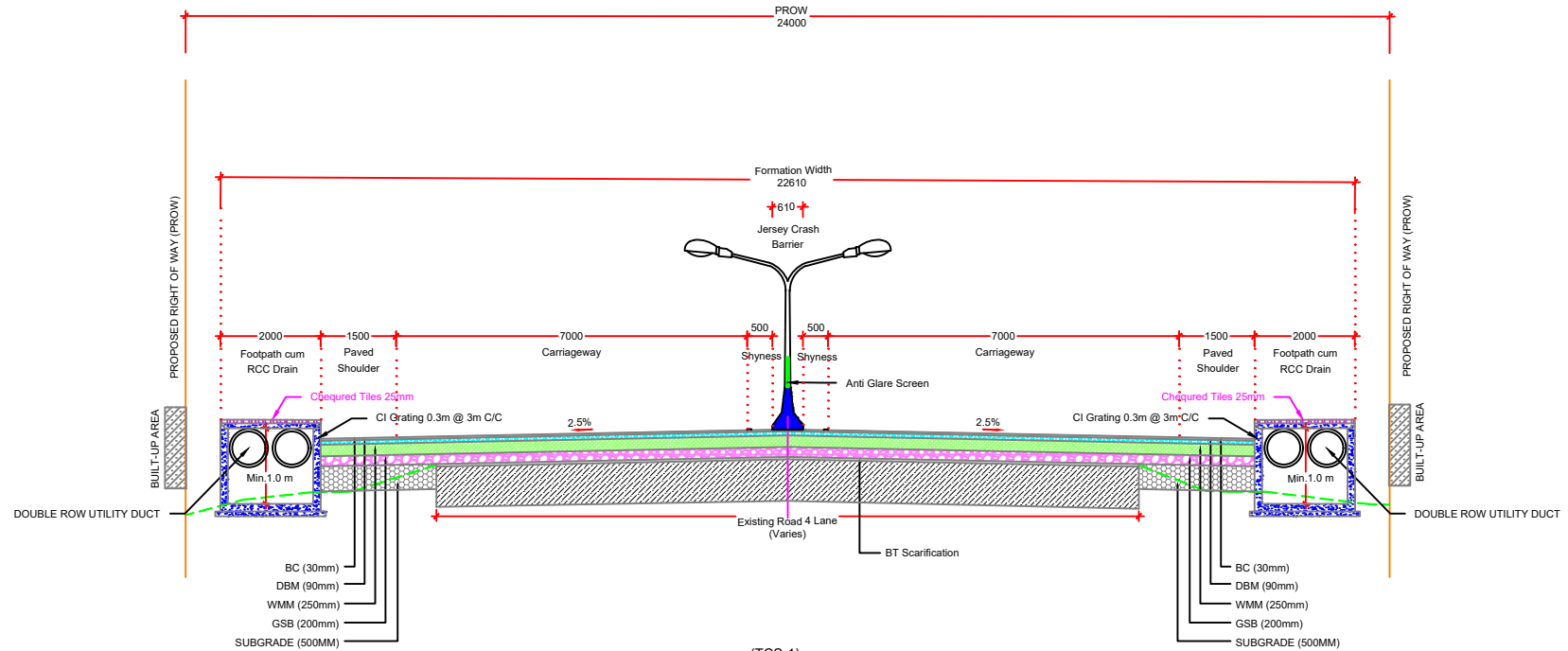
VERTICAL CURVE REPORT PKG-2

PVI NO.	PVI		Curve Length (m)	Grade		Diff. in Grade (%)	Chainage (m)		Level (m)		Type of Curve	K Value
	Design Chainage (m)	Level		IN (%)	OUT (%)		Start of Curve	End of Curve	Start of Curve	End of Curve		
1	16+837.22	1705.260m	150.000m	1.19%	0.14%	1.05%	16+762.22	16+912.22	1704.367m	1705.366m	crest curve	142.713m
2	17+074.92	1705.594m	150.000m	0.14%	1.42%	1.28%	16+999.92	17+149.92	1705.489m	1706.659m	sag curve	117.171m
3	18+092.42	1720.047m	200.000m	1.42%	0.00%	1.42%	17+992.42	18+192.42	1718.627m	1720.047m	crest curve	140.799m
4	18+267.92	1720.047m	120.000m	0.00%	0.73%	0.73%	18+207.92	18+327.92	1720.047m	1720.487m	sag curve	163.799m
5	18+539.86	1722.039m	120.000m	0.73%	0.00%	0.73%	18+479.86	18+599.86	1721.600m	1722.039m	crest curve	163.799m
6	18+742.73	1722.039m	120.000m	0.00%	1.11%	1.11%	18+682.73	18+802.73	1722.039m	1722.707m	sag curve	107.779m
7	19+727.17	1733.000m	300.000m	1.11%	1.95%	0.83%	19+577.17	19+877.17	1731.330m	1735.922m	sag curve	359.492m
8	20+967.87	1757.168m	280.000m	1.95%	0.00%	1.95%	20+827.87	21+107.87	1754.440m	1757.168m	crest curve	143.744m
9	21+177.87	1757.168m	80.000m	0.00%	1.22%	1.22%	21+137.87	21+217.87	1757.168m	1757.657m	sag curve	65.419m
10	21+628.09	1762.673m	120.000m	1.22%	1.97%	0.75%	21+568.09	21+688.09	1761.940m	1763.856m	sag curve	160.264m
11	22+117.15	1772.316m	180.000m	1.97%	0.91%	1.06%	22+027.15	22+207.15	1770.541m	1773.137m	crest curve	169.836m
12	22+476.11	1775.589m	200.000m	0.91%	4.24%	3.33%	22+376.11	22+576.11	1774.677m	1779.830m	sag curve	60.067m
13	23+029.28	1799.051m	185.000m	4.24%	2.95%	1.29%	22+936.78	23+121.78	1795.128m	1801.782m	crest curve	143.456m
14	23+951.52	1826.274m	320.000m	2.95%	1.07%	1.88%	23+791.52	24+111.52	1821.551m	1827.992m	crest curve	170.382m
15	25+521.16	1843.128m	200.000m	1.07%	1.04%	0.04%	25+421.16	25+621.16	1842.054m	1844.165m	crest curve	5376.148m
16	26+119.35	1849.328m	200.000m	1.04%	0.60%	0.43%	26+019.35	26+219.35	1848.292m	1849.930m	crest curve	460.268m
17	26+929.77	1854.207m	195.000m	0.60%	2.70%	2.10%	26+832.27	27+027.27	1853.620m	1856.839m	sag curve	92.982m
18	27+467.92	1868.733m	300.000m	2.70%	0.80%	1.90%	27+317.92	27+617.92	1864.684m	1869.935m	crest curve	158.106m
19	28+007.39	1873.058m	195.000m	0.80%	1.47%	0.67%	27+909.89	28+104.89	1872.276m	1874.491m	sag curve	291.767m
20	28+512.27	1880.480m	285.000m	1.47%	0.00%	1.47%	28+369.77	28+654.77	1878.385m	1880.480m	crest curve	193.871m
21	29+123.60	1880.480m	200.000m	0.00%	3.84%	3.84%	29+023.60	29+223.60	1880.480m	1884.322m	sag curve	52.048m
22	29+428.38	1892.191m	175.000m	3.84%	1.21%	2.63%	29+340.88	29+515.88	1888.829m	1893.253m	crest curve	66.562m
23	29+911.02	1898.048m	150.000m	1.21%	1.45%	0.24%	29+836.02	29+986.02	1897.138m	1899.136m	sag curve	632.350m
24	30+689.84	1909.347m	190.000m	1.45%	3.28%	1.83%	30+594.84	30+784.84	1907.968m	1912.465m	sag curve	103.743m
25	31+629.46	1940.186m	230.000m	3.28%	-0.33%	3.61%	31+514.46	31+744.46	1936.412m	1939.804m	crest curve	63.631m
26	31+944.62	1939.139m	120.000m	-0.33%	0.00%	0.33%	31+884.62	32+004.62	1939.338m	1939.139m	sag curve	360.970m
27	32+232.74	1939.139m	120.000m	0.00%	0.85%	0.85%	32+172.74	32+292.74	1939.139m	1939.651m	sag curve	140.546m
28	32+594.81	1942.230m	195.000m	0.85%	2.73%	1.88%	32+497.31	32+692.31	1941.398m	1944.893m	sag curve	103.852m
29	32+849.43	1949.185m	180.000m	2.73%	-0.43%	3.16%	32+759.43	32+939.43	1946.726m	1948.798m	crest curve	56.931m
30	33+059.46	1948.281m	165.000m	-0.43%	3.96%	4.39%	32+976.96	33+141.96	1948.636m	1951.547m	sag curve	37.594m
31	33+315.70	1958.425m	175.000m	3.96%	1.08%	2.88%	33+228.20	33+403.20	1954.961m	1959.369m	crest curve	60.763m
32	33+633.42	1961.853m	200.000m	1.08%	4.10%	3.03%	33+533.42	33+733.42	1960.774m	1965.956m	sag curve	66.112m
33	33+889.38	1972.357m	160.000m	4.10%	1.14%	2.97%	33+809.38	33+969.38	1969.074m	1973.268m	crest curve	53.952m
34	34+601.54	1980.463m	200.000m	1.14%	1.91%	0.77%	34+501.54	34+701.54	1979.325m	1982.370m	sag curve	260.360m
35	35+124.15	1990.426m	200.000m	1.91%	3.31%	1.40%	35+024.15	35+224.15	1988.520m	1993.732m	sag curve	142.957m
36	36+033.63	2020.489m	200.000m	3.31%	0.00%	3.31%	35+933.63	36+133.63	2017.184m	2020.489m	crest curve	60.506m
37	36+789.89	2020.489m	200.000m	0.00%	4.54%	4.54%	36+689.89	36+889.89	2020.489m	2025.030m	sag curve	44.039m
38	37+109.42	2035.000m	220.000m	4.54%	0.97%	3.57%	36+999.42	37+219.42	2030.004m	2036.065m	crest curve	61.567m
39	37+575.04	2039.507m	180.000m	0.97%	2.36%	1.40%	37+485.04	37+665.04	2038.636m	2041.635m	sag curve	128.968m
40	37+879.88	2046.713m	190.000m	2.36%	3.30%	0.93%	37+784.88	37+974.88	2044.467m	2049.845m	sag curve	203.612m
41	38+676.04	2072.961m	250.000m	3.30%	0.23%	3.07%	38+551.04	38+801.04	2068.840m	2073.247m	crest curve	81.483m
42	38+986.18	2073.670m	200.000m	0.23%	4.62%	4.39%	38+886.18	39+086.18	2073.442m	2078.293m	sag curve	45.515m
43	39+298.55	2088.111m	200.000m	4.62%	6.35%	1.73%	39+198.55	39+398.55	2083.488m	2094.462m	sag curve	115.751m

					CLIENT:		CONSULTANT:		REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE:				SHEET No: 01 OF 01						
						VERTICAL CURVE REPORT(VCR)						DATE: JAN. 2024										
						DRAWING No: NHIDCL/J&k/NH-501/PKG-2/VCR/S-01						SCALE: AS SHOWN										
						DRAWN						DESIGNED	CHECKED	APPROVED								
REV.	DATE	DESCRIPTION	ENG.	DM	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.								G.N	A.R	VPS.	IRM.	PAPER SIZE: A2	REV: 0				
											PACKAGE-2 SEER HAMDAN TO PAHALGAM											

DRAWING INDEX				
SL.NO.	DRAWING TITLE	DRAWING NO.	SHEET	REV.
1.	TYPICAL CROSS SECTION(TCS-1 TO TCS-5)	NHIDCL/J&K/NH-501/PKG-2/TCS/S-01 TO S-05	05	R0
2.	PLAN & PROFILE AT CH-16+700 TO 39+450	NHIDCL/J&K/NH-501/P&P/PKG-2/S-01 TO S-24	24	R0
3.	TYPICAL DRAWING OF ROAD MARKING	NHIDCL/J&K/NH-501/PKG-2/ROAD MARKING/S-01 TO S-02	02	R0
4.	TYPICAL ROAD SIGNAGES DETAILS	NHIDCL/J&K/NH-501/PKG-2/ROAD SIGN/S-01 TO S-04	04	R0
5.	TYPICAL LAYOUT OF BUS BAY	NHIDCL/J&K/NH-501/PKG-2/BUS BAY/S-01	01	R0
6.	TYPICAL DRAWING OF BUS SHELTER	NHIDCL/J&K/NH-501/PKG-2/BUS SHELTER/S-01	01	R0
7.	TYPICAL DRAWING TRUCK LAY BYE	NHIDCL/J&K/NH-501/PKG-2/TRUCK LAY BYE/S-01	01	R0
8.	TYPICAL DRAWING OF KM & 5th KM STONE	NHIDCL/J&K/NH-501/PKG-2/KM STONE/S-01	01	R0
9.	DETAILS OF W-BEAM CRASH BARRIER	NHIDCL/J&K/NH-501/PKG-2/W-BEAM/S-01	01	R0
10.	TYPICAL LAYOUT OF TOLL PLAZA	NHIDCL/J&K/NH-501/PKG-2/TOLL PLAZA/S-01	01	R0

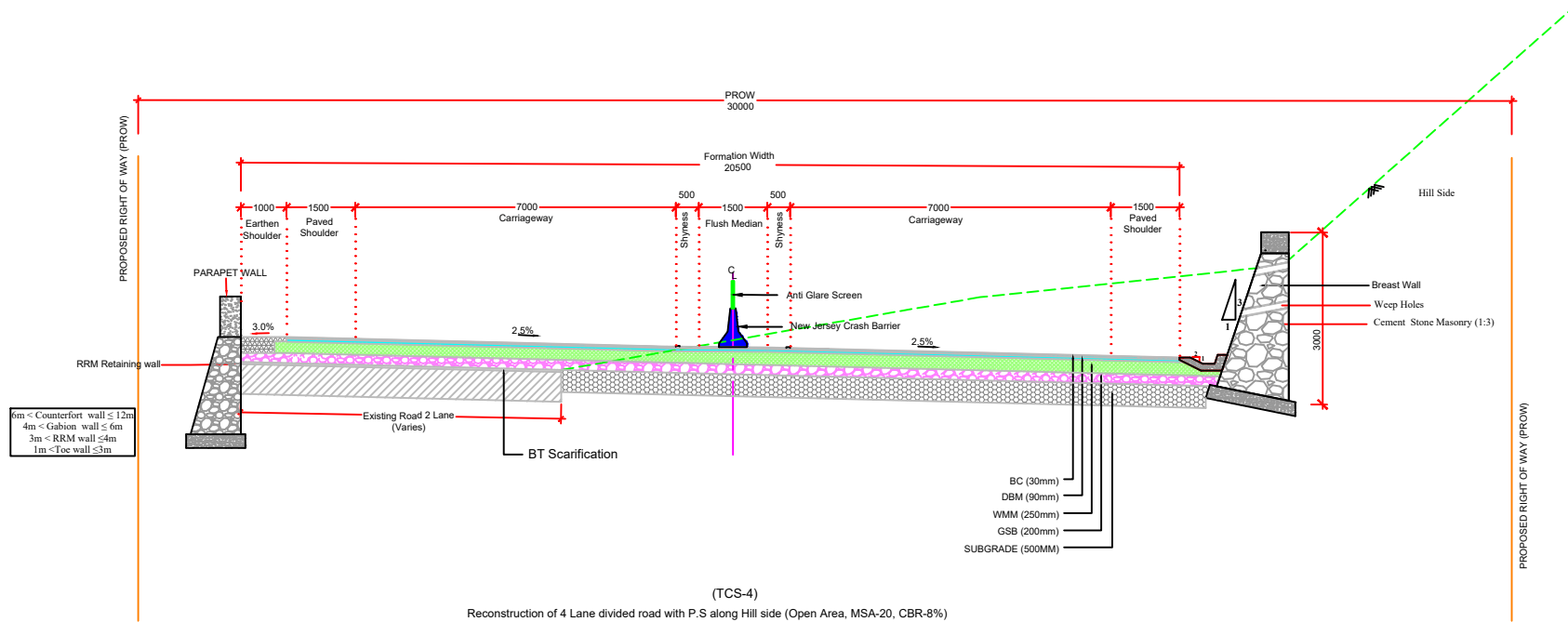
TYPICAL CROSS SECTIONS PKG-2



Reconstruction of 4 Lane divided road with P.S (Built-up portion, MSA-20, CBR-8%)

TCS Schedule 1					
Sr No	Design Chainage		Proposed Length (m)	TCS No	PROW (m)
	From	To			
1	16+700	18+193	1493	TCS 1	24
2	18+208	18+615	407	TCS 1	24
3	18+635	18+800	165	TCS 1	24
4	19+600	20+300	700	TCS 1	24
5	21+534	22+208	674	TCS 1	24
6	22+223	23+950	1727	TCS 1	24
7	25+300	28+655	3355	TCS 1	24
8	28+665	28+950	285	TCS 1	24
9	32+600	34+800	2200	TCS 1	24
Total Length			11006		

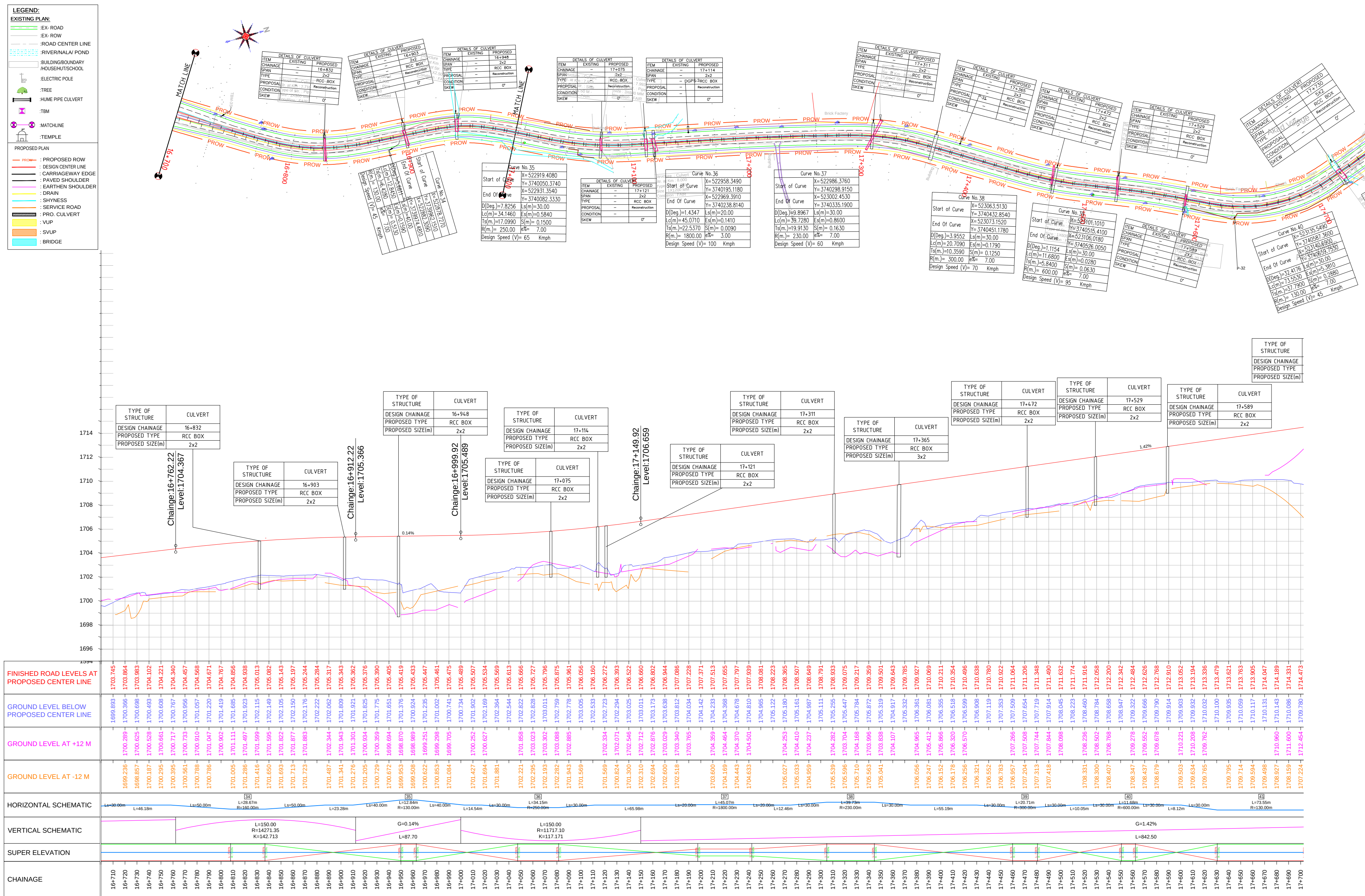
			CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	PROJECT: "Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh". FROM KHANABAL TO BALTAL(NH-501)	DPR CONSULTANT:  REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	DRAWING TITLE : PROPOSED TYPICAL CROSS SECTION			DATE: JAN 2024
DRAWING NO. : NH501/TCS/PKG-2/S-01						SHEET No. 01 OF 05			
PREPARED BY	DESIGNED BY	APPROVED BY				PAPER SIZE: A2			
D.M	S.N	VPS				REV: R0			
						SCALE:			
REV.	DATE	DESCRIPTION OF REVISIONS							

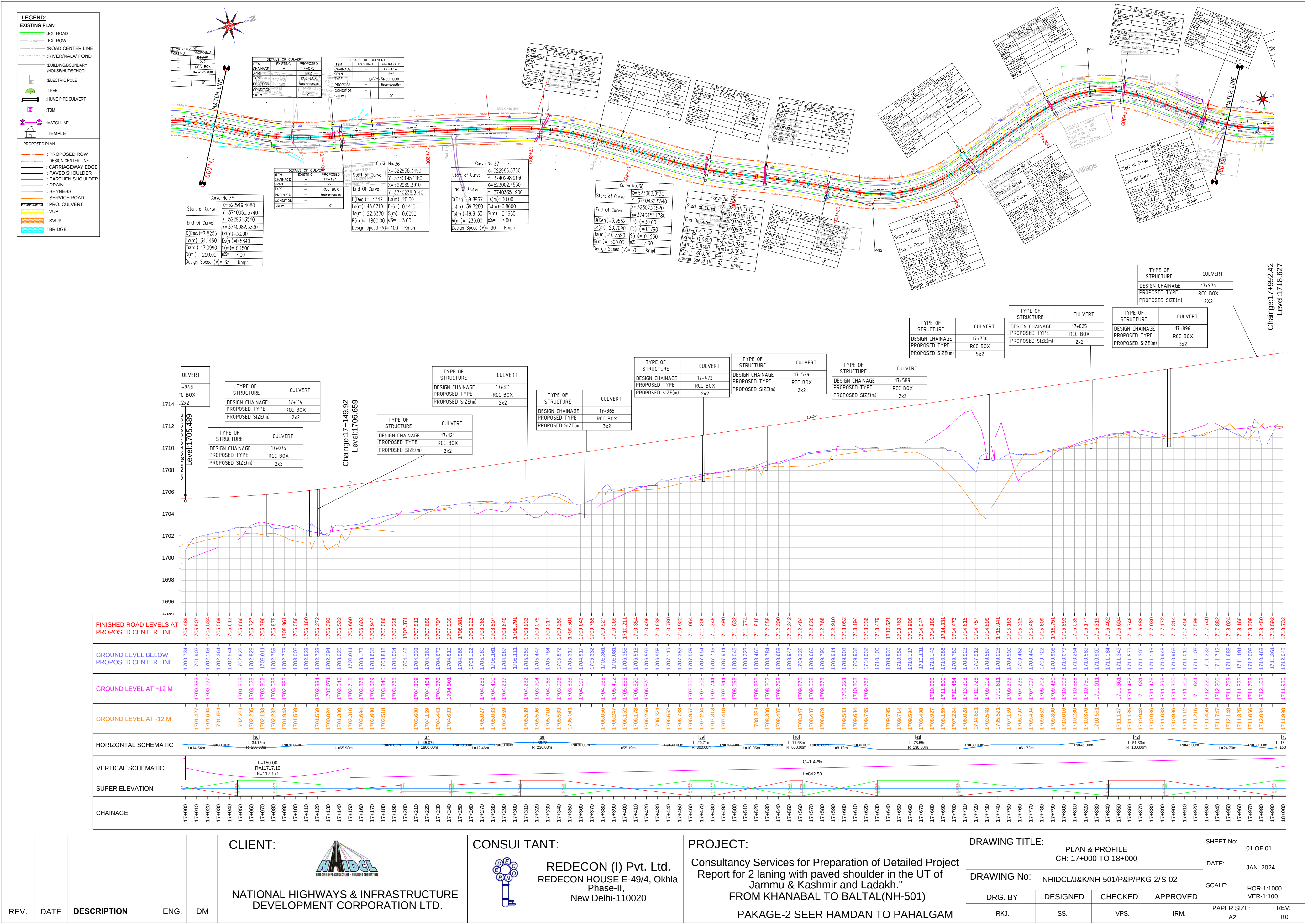


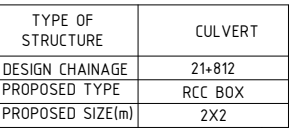
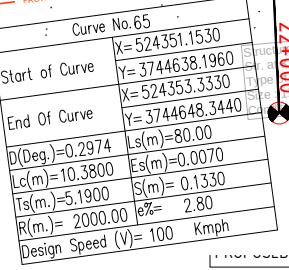
TCS Schedule 4					
Sr No	Design Chainage		Proposed Length (m)	TCS No	PROW (m)
	From	To			
1	29+200	32+092	2892	TCS 4	30
2	32+104	32+600	496	TCS 4	30
3	34+800	36+175	1375	TCS 4	30
4	36+225	38+276	2051	TCS 4	30
5	38+286	39+450	1164	TCS 4	30
Total Length			7978		

			CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	PROJECT: "Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh". FROM KHANABAL TO BALTAL(NH-501)	DPR CONSULTANT:  REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	DRAWING TITLE : PROPOSED TYPICAL CROSS SECTION			DATE: JAN 2024
DRAWING NO. : NH501/TCS/PKG-2/S-04						SHEET No. 04 OF 05			
PREPARED BY	DESIGNED BY	APPROVED BY				PAPER SIZE: A2			
D.M	S.N	VPS				REV: R0			
REV.	DATE	DESCRIPTION OF REVISIONS					SCALE:		

PLAN & PROFILE PKG-2







					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. REDECON HOUSE E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh." FROM KHANABAL TO BALTAL(NH-501) PAKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: PLAN & PROFILE CH: 21+000 TO 22+000				SHEET No: 01 OF 01						
								DRAWING No: NHIDCL/J&K/NH-501/P&P/PKG-2/S-06				DATE: JAN. 2024						
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DRG. BY	DESIGNED	CHECKED	APPROVED															
RKJ.	SS.	VPS.	IRM.															

LEGEND:

EXISTING PLAN:

EX- ROAD

EX- ROW

ROAD CENTER LINE

RIVER/NALA/ POND

BUILDING/BOUNDARY

HOUSE/SCHOOL

ELECTRIC POLE

TREE

HUME PIPE CULVERT

TBM

MATCHLINE

TEMPLE

PROPOSED PLAN:

PROPOSED ROW

DESIGN CENTER LINE

CARRIAGEWAY EDGE

PAVED SHOULDER

EARTHEN SHOULDER

DRAIN

SHYNESS

SERVICE ROAD

PRO. CULVERT

VUP

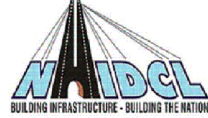
SVUP

BRIDGE

The main plan view illustrates the proposed road alignment from station 24+000 to 25+000. It includes details for several curves (No. 77, 78, 79) with their respective geometric data. Numerous culverts and bridges are shown with their specific details, including span, type, and condition. The plan also depicts existing features like rivers, ponds, and buildings, as well as proposed features like drains, shoulders, and service roads. Stationing is marked along the alignment, and various structures are labeled with their respective details.

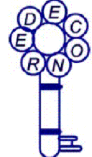
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DEVELOPMENT CORPORATION LTD.

CONSULTANT:



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REDECON HOUSE E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh."

FROM KHANABAL TO BALTAL(NH-501)

PACKAGE-2 SEER HAMDAN TO PAHALGAM

DRAWING TITLE:

PLAN & PROFILE
CH: 24+000 TO 25+000

DRAWING No: NHIDCL/J&K/NH-501/P&P/PKG-2/S-09A

DRG. BY

DESIGNED

CHECKED

APPROVED

RKJ.

SS.

VPS.

IRM.

SHEET No:

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JAN. 2024

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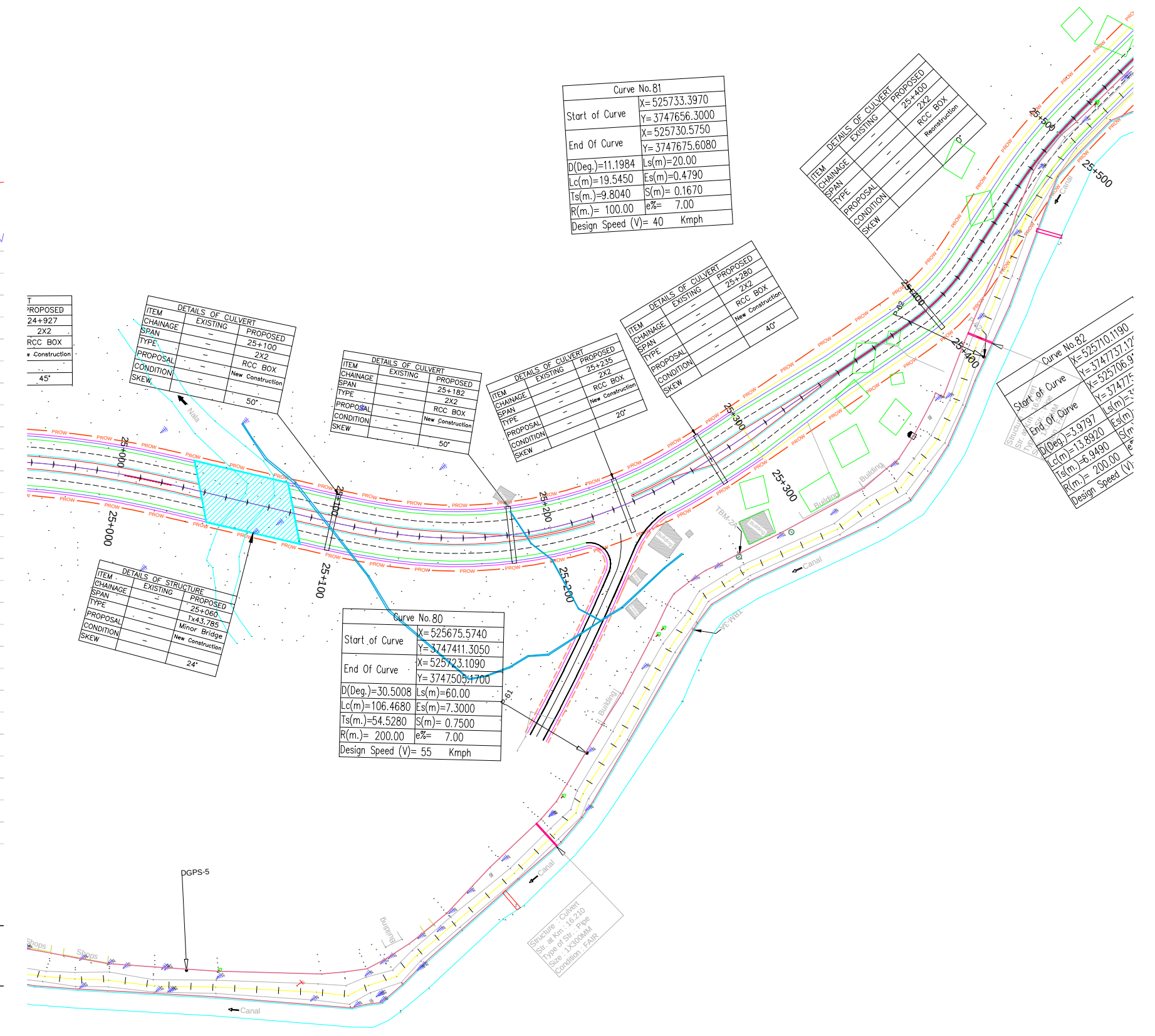
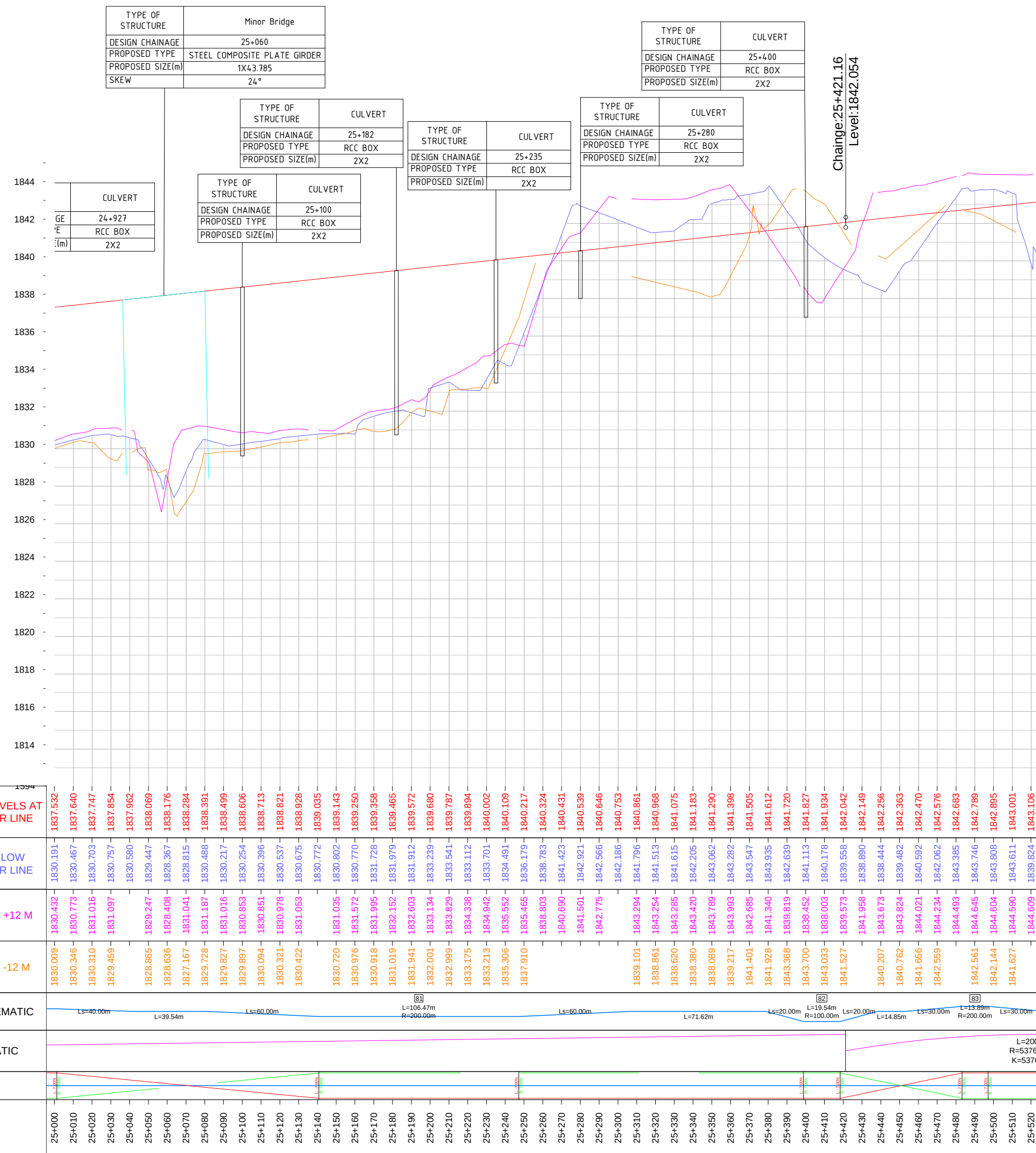
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VER-1:100

PAPER SIZE:

A2

REV:

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					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. REDECON HOUSE E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh." FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE: PLAN & PROFILE CH: 25+000 TO 25+500				SHEET No: 01 OF 01	
								DRAWING No: NHIDCL/J&K/NH-501/P&P/PKG-2/S-10				DATE: JAN. 2024	
							DRG. BY	DESIGNED	CHECKED	APPROVED	SCALE: HOR-1:1000 VER-1:100		
REV.	DATE	DESCRIPTION	ENG.	DM							PAPER SIZE: A2	REV: R0	
							PACKAGE-2 SEER HAMDAN TO PAHALGAM						

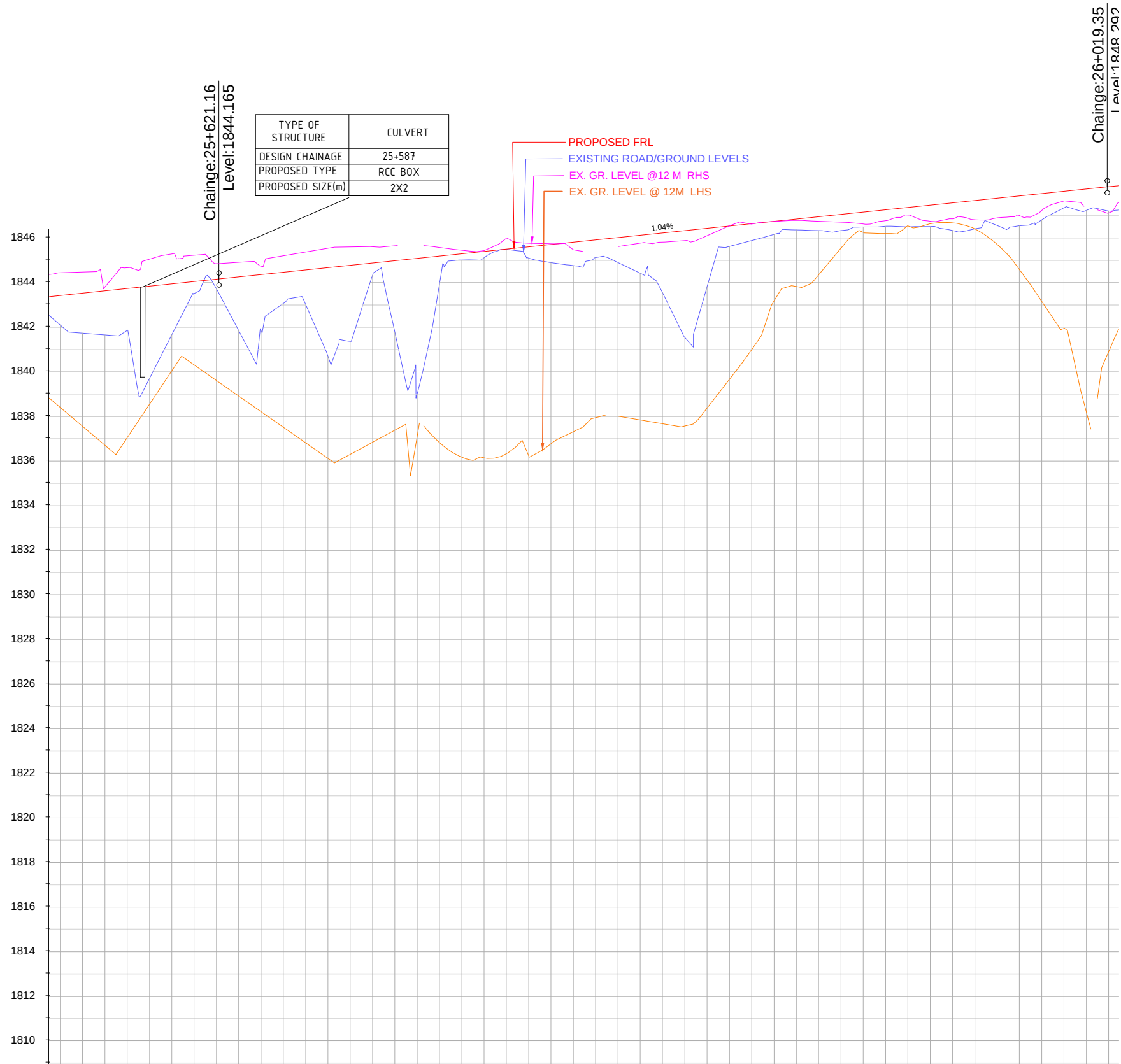
LEGEND:

EXISTING PLAN:

- EX- ROAD
- EX- ROW
- ROAD CENTER LINE
- RIVER/NALA/ POND
- BUILDING/BOUNDARY
- HOUSE/HUT/SCHOOL
- ELECTRIC POLE
- TREE
- HUME PIPE CULVERT
- TBM
- MATCHLINE
- TEMPLE

PROPOSED PLAN:

- PROPOSED ROW
- DESIGN CENTER LINE
- CARRIAGEWAY EDGE
- PAVED SHOULDER
- EARTHEN SHOULDER
- DRAIN
- SHYNESS
- SERVICE ROAD
- PRO. CULVERT
- VUP
- SVUP
- BRIDGE



FINISHED ROAD LEVELS AT PROPOSED CENTER LINE	1843.422	1842.094	1841.732	1843.527	
GROUND LEVEL BELOW PROPOSED CENTER LINE	1844.444	1844.477	1843.806	1841.657	1843.632
GROUND LEVEL AT +12 M	1838.406	1837.560	1836.714	1843.806	1841.657
GROUND LEVEL AT -12 M	1838.406	1837.560	1836.714	1843.806	1841.657
HORIZONTAL SCHEMATIC	L=145.83m L=50.00m L=47.34m R=150.00m L=40.00m L=55.05m L=81.54m R=300.00m L=16.32m L=72.88m R=60.00m L=8.85m L=30.00m L=1.04%				
VERTICAL SCHEMATIC	G=1.04% L=398.19				
SUPER ELEVATION					
CHAINAGE	25+550	25+600	25+650	25+700	26+020



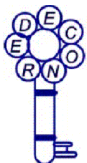
REV.	DATE	DESCRIPTION	ENG.	DM

CLIENT:



NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:



REDECON (I) Pvt. Ltd.
REDECON HOUSE E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh."
FROM KHANABAL TO BALTAL(NH-501)

PACKAGE-2 SEER HAMDAN TO PAHALGAM

DRAWING TITLE:

PLAN & PROFILE
CH: 25+500 TO 26+000

DRAWING No:

NHIDCL/J&K/NH-501/P&P/PKG-2/S-10A

DRG. BY

DESIGNED

CHECKED

APPROVED

RKJ.

SS.

VPS.

IRM.

SHEET No:

01 OF 01

DATE:

JAN. 2024

SCALE:

HOR-1:1000
VER-1:100

PAPER SIZE:

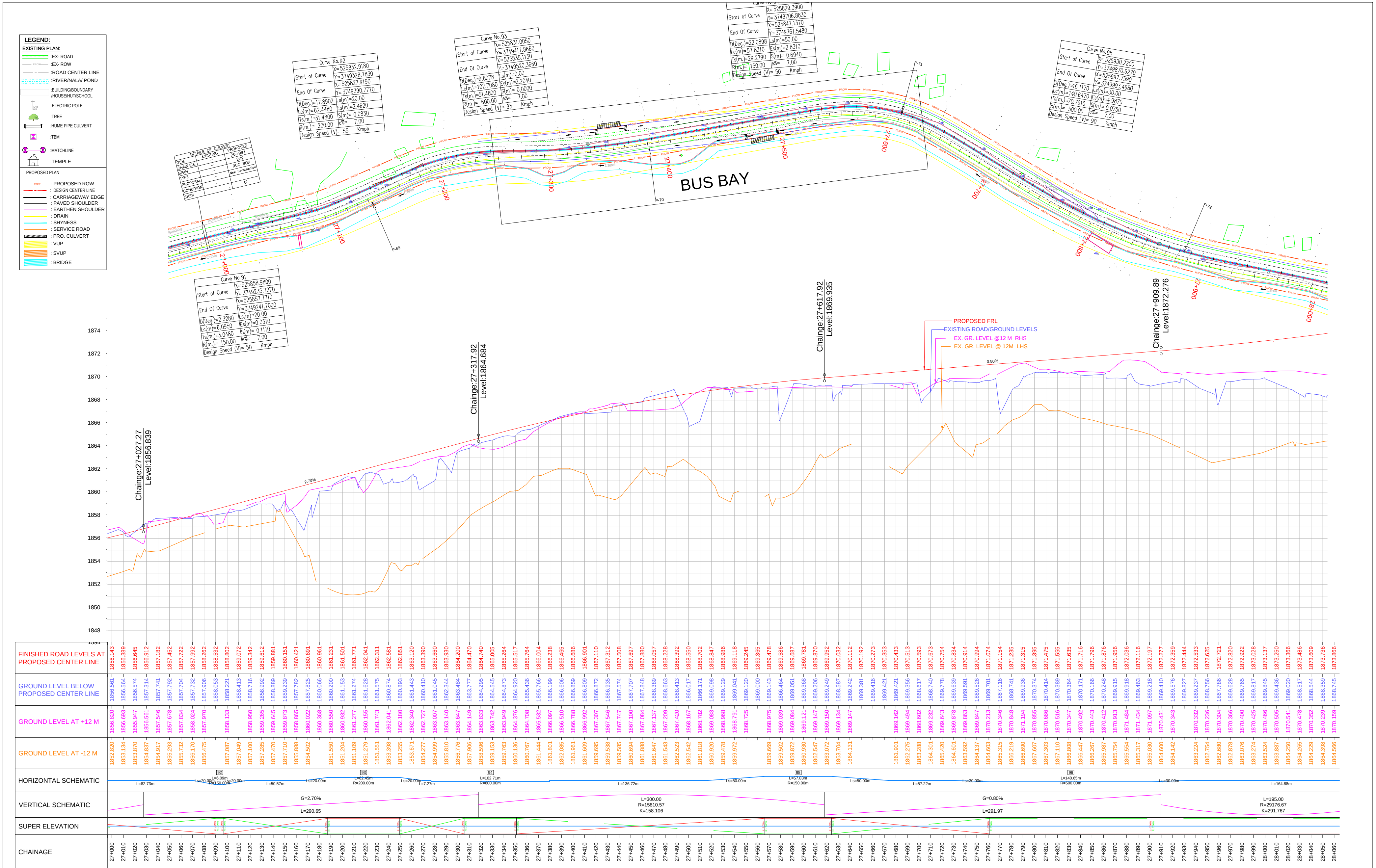
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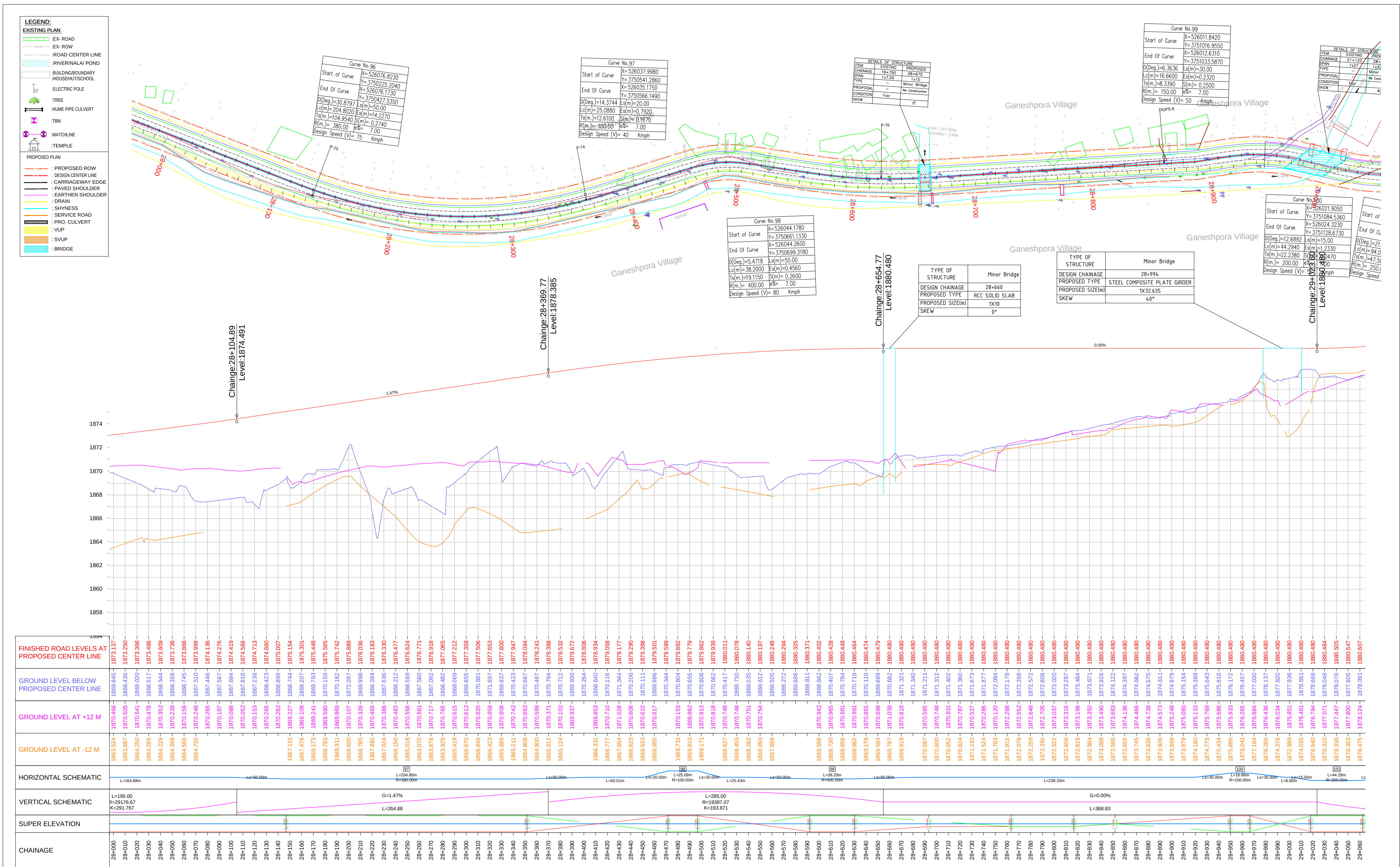
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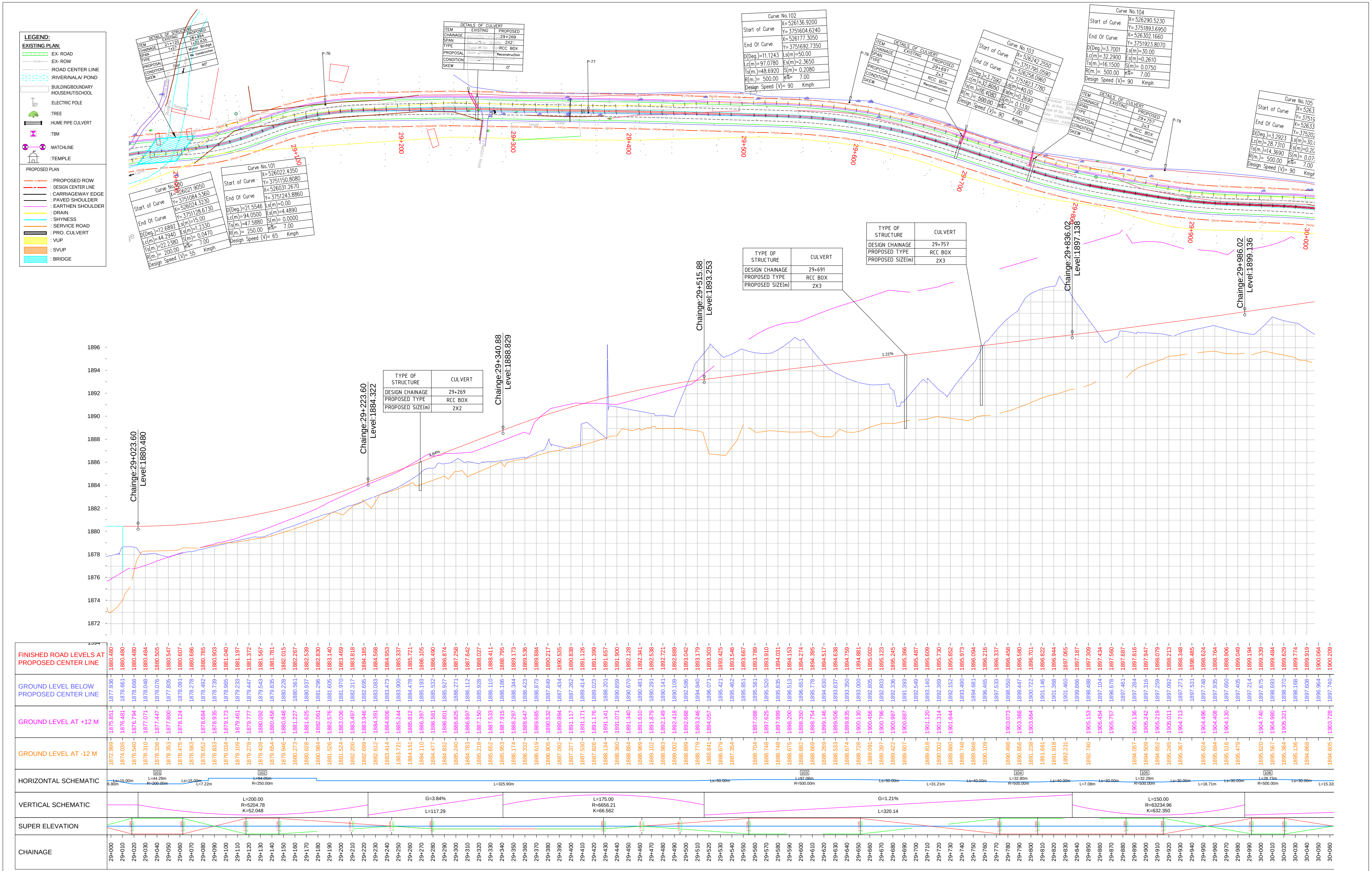
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							RKJ.	SS.	VPS.	IRM.			



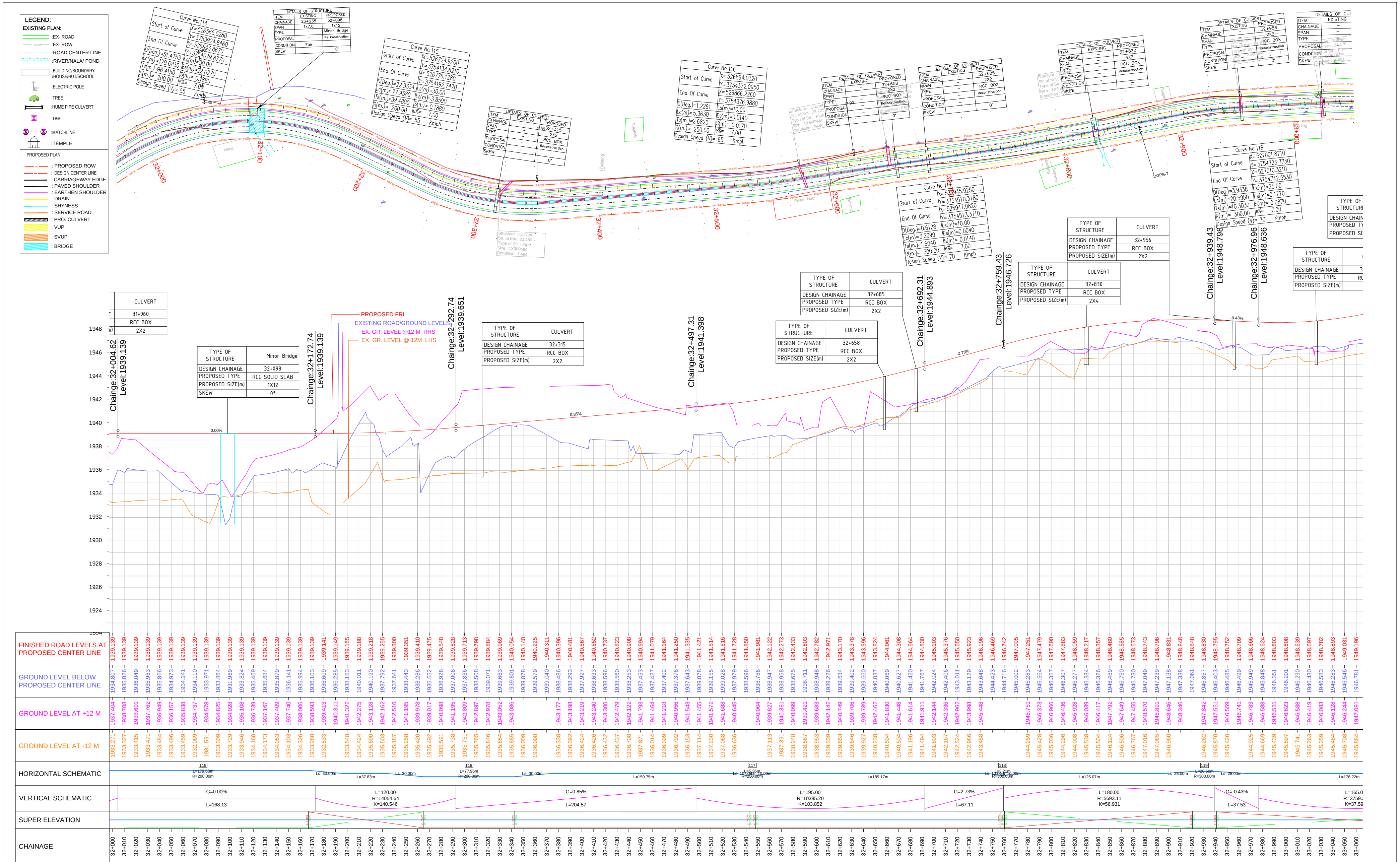
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REV.	DATE	DESCRIPTION	ENG.	DM					PACKAGE-2 SEER HAMDAN TO PAHALGAM				DRG. BY	DESIGNED	CHECKED	APPROVED
											RKJ.	SS.	VPS.	IRM.		



					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. REDECON HOUSE E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh." FROM KHANABAL TO BALTAL(NH-501) PACKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: PLAN & PROFILE CH: 28+000 TO 29+000				SHEET No: 01 OF 01						
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DRG. BY	DESIGNED	CHECKED	APPROVED															
RKJ.	SS.	VPS.	IRM.															



					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. REDECON HOUSE E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh." FROM KHANABAL TO BALTAL(NH-501) PACKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: PLAN & PROFILE CH: 29+000 TO 30+000				SHEET No: 01 OF 01	
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REV.	DATE	DESCRIPTION	ENG.	DM				DRG. BY RKJ.	DESIGNED SS.	CHECKED VPS.	APPROVED IRM.	PAPER SIZE: A2	REV: R0



					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. REDECON HOUSE E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh." FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE: PLAN & PROFILE CH: 32+000 TO 33+000				SHEET No: 01 OF 01		
DRAWING No: NHIDCL/J&K/NH-501/P&P/PKG-2/S-17				DATE: JAN. 2024										
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REV.	DATE	DESCRIPTION	ENG.	DM					PAKAGE-2 SEER HAMDAN TO PAHALGAM					
									RKJ.	SS.	VPS.	IRM.	PAPER SIZE: A2	REV: R0

CLIENT:

NHIDCL

NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:

REDECON (I) Pvt. Ltd.

REDECON HOUSE E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh."

FROM KHANABAL TO BALTAL(NH-501)

PACKAGE-2 SEER HAMDAN TO PAHALGAM

DRAWING TITLE:

PLAN & PROFILE
CH: 32+000 TO 33+000

DRAWING No: NHIDCL/J&K/NH-501/P&P/PKG-2/S-17

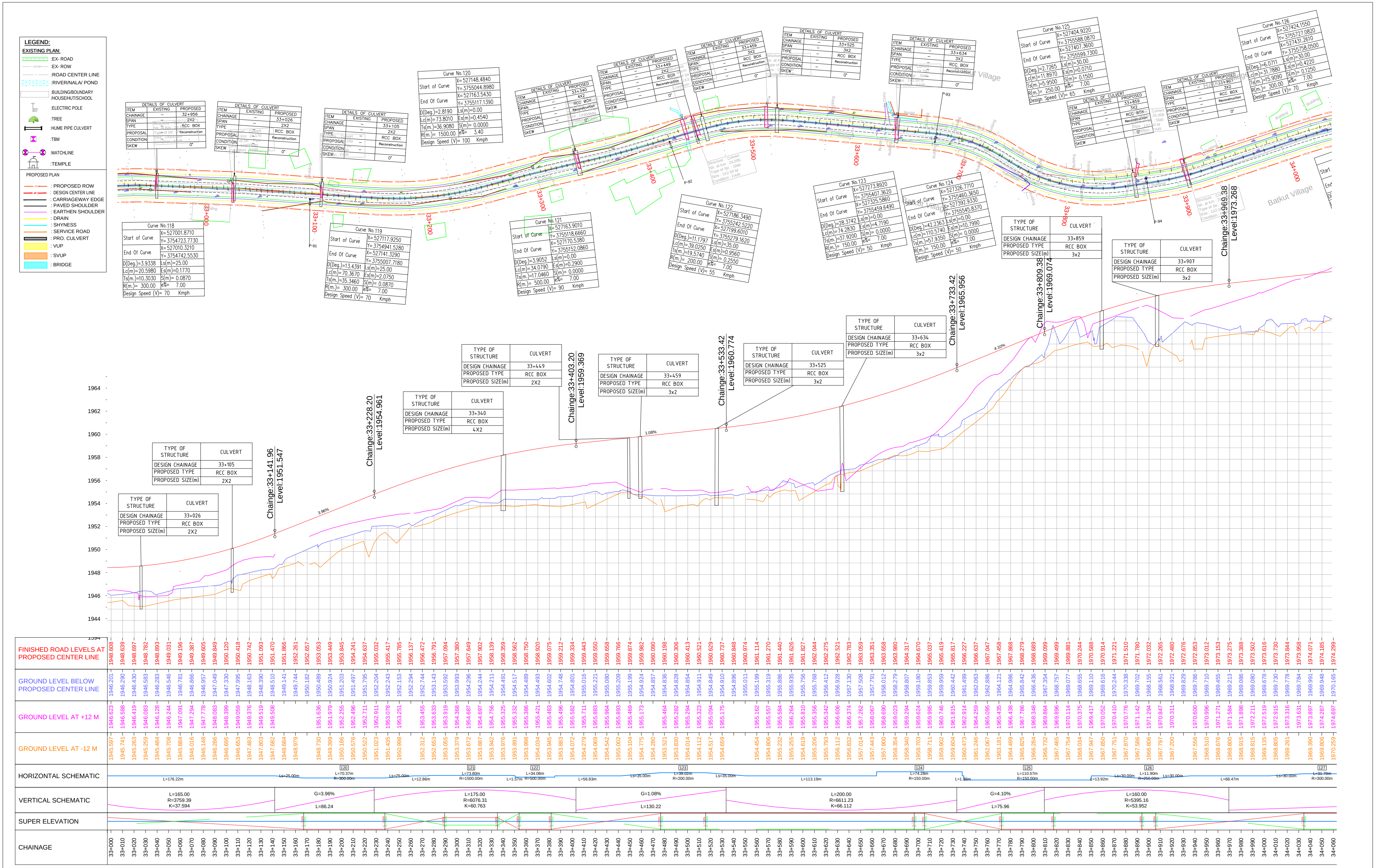
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SHEET No: 01 OF 01

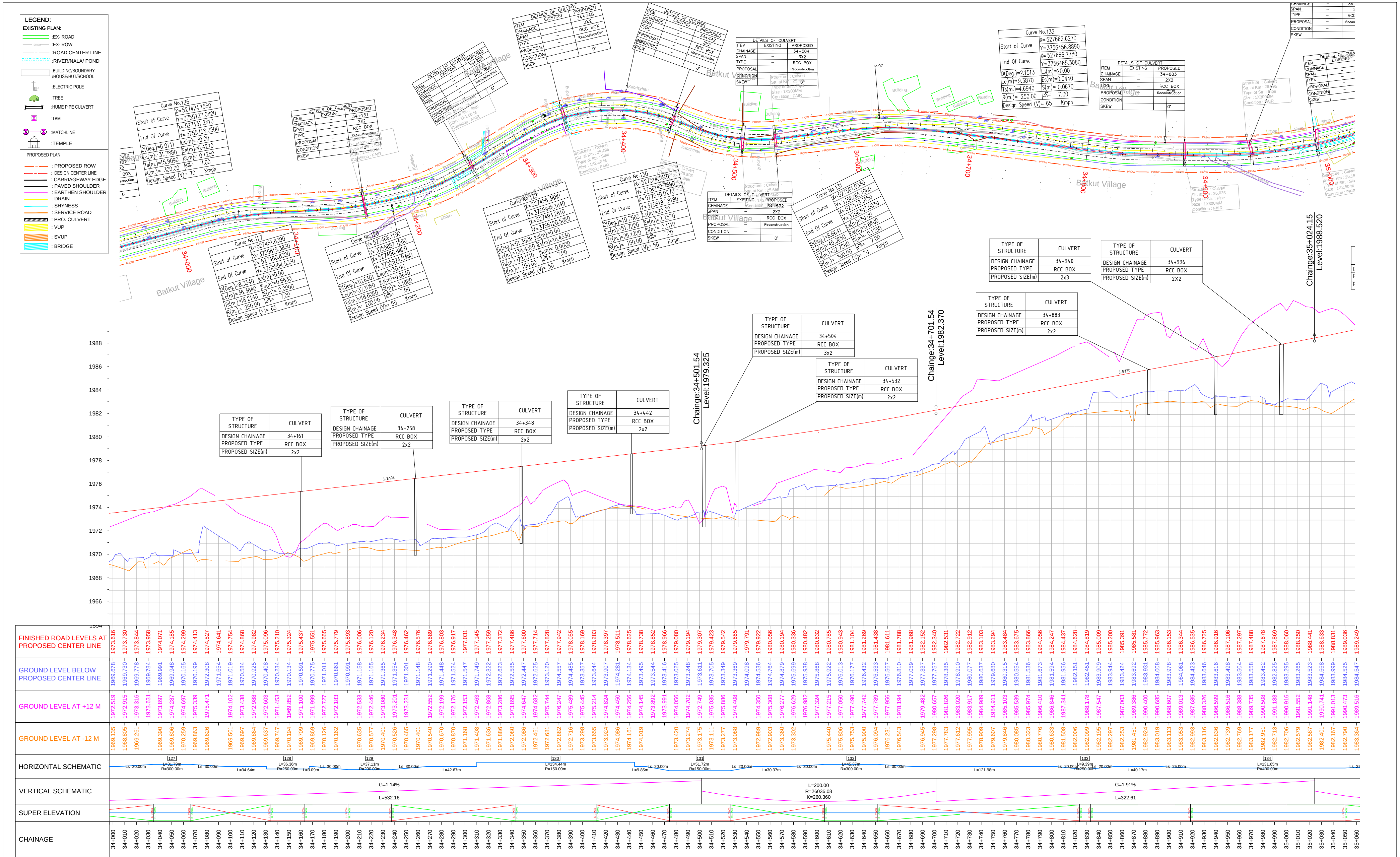
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					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. REDECON HOUSE E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh." FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE: PLAN & PROFILE CH: 33+000 TO 34+000				SHEET No: 01 OF 01		
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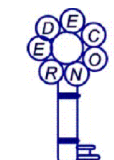
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CLIENT:



NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:



REDECON (I) Pvt. Ltd.
REDECON HOUSE E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh."
FROM KHANABAL TO BALTAL(NH-501)
PACKAGE-2 SEER HAMDAN TO PAHALGAM

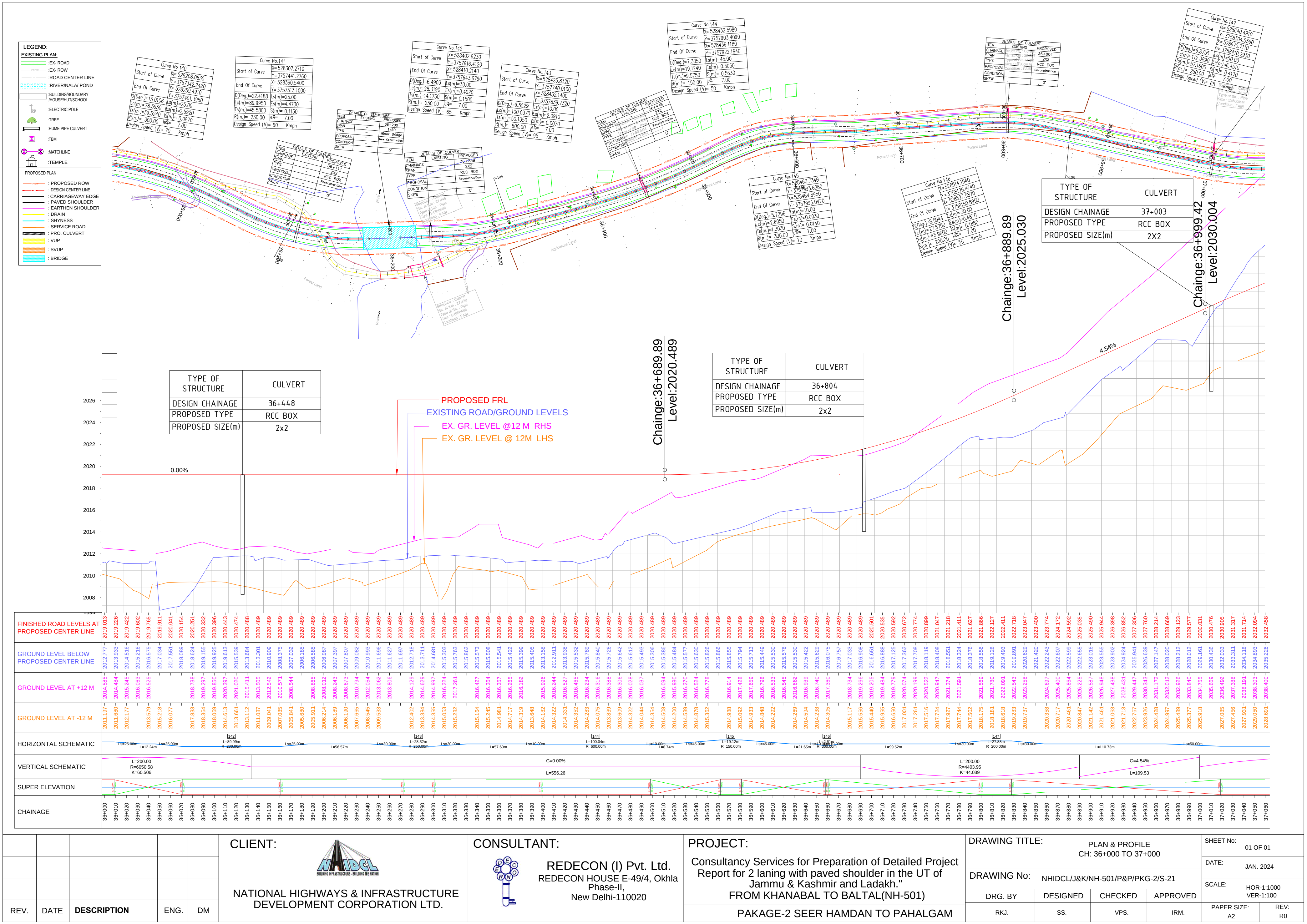
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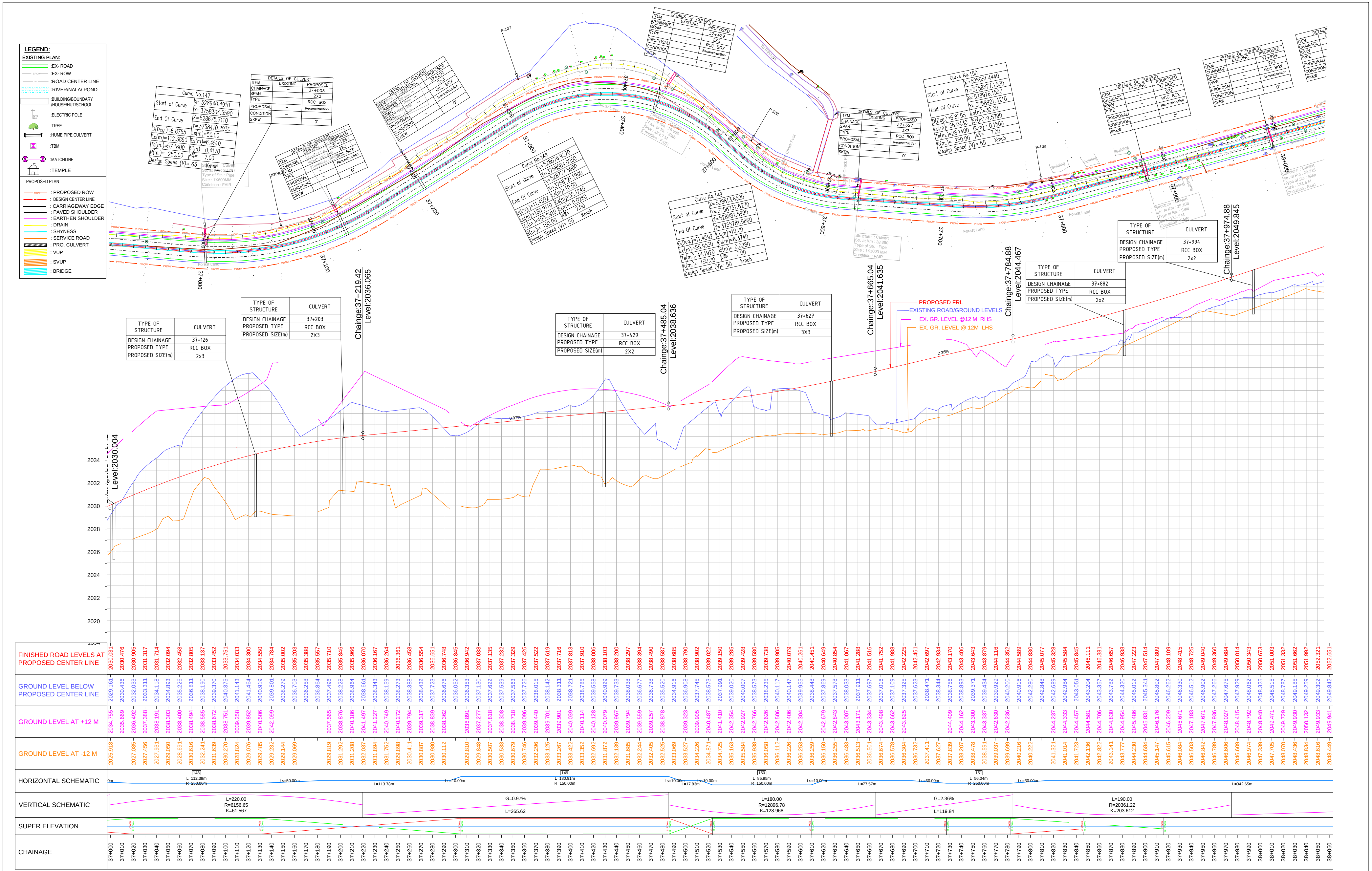
PLAN & PROFILE
CH: 34+000 TO 35+000

DRAWING No: NHIDCL/J&K/NH-501/P&P/PKG-2/S-19

DRG. BY	DESIGNED	CHECKED	APPROVED
RKJ.	SS.	VPS.	IRM.

SHEET No:	01 OF 01
DATE:	JAN. 2024
SCALE:	HOR-1:1000 VER-1:100
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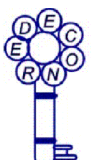
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REV.	DATE	DESCRIPTION	ENG.	DM

CLIENT:


NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:


REDECON (I) Pvt. Ltd.
REDECON HOUSE E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

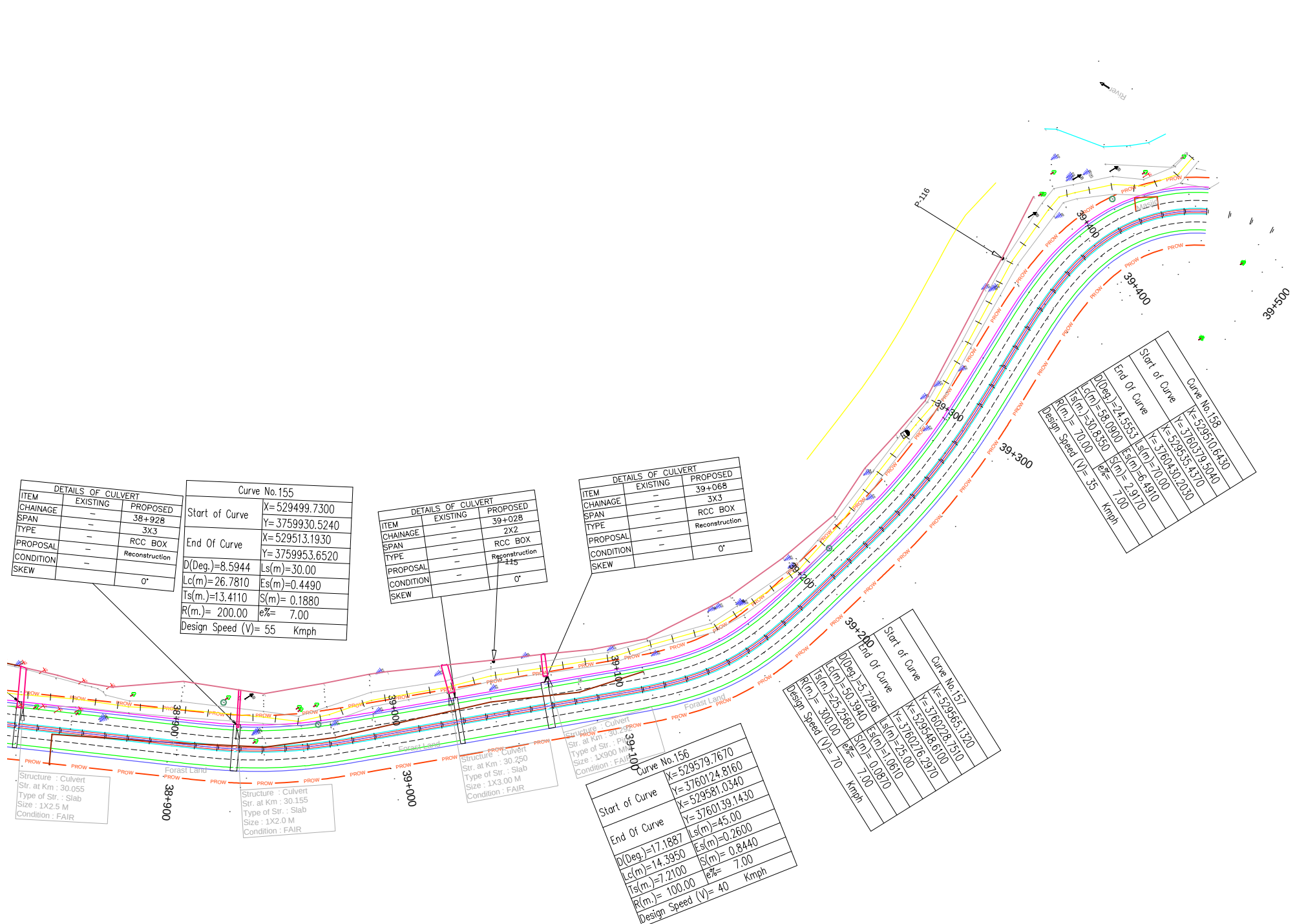
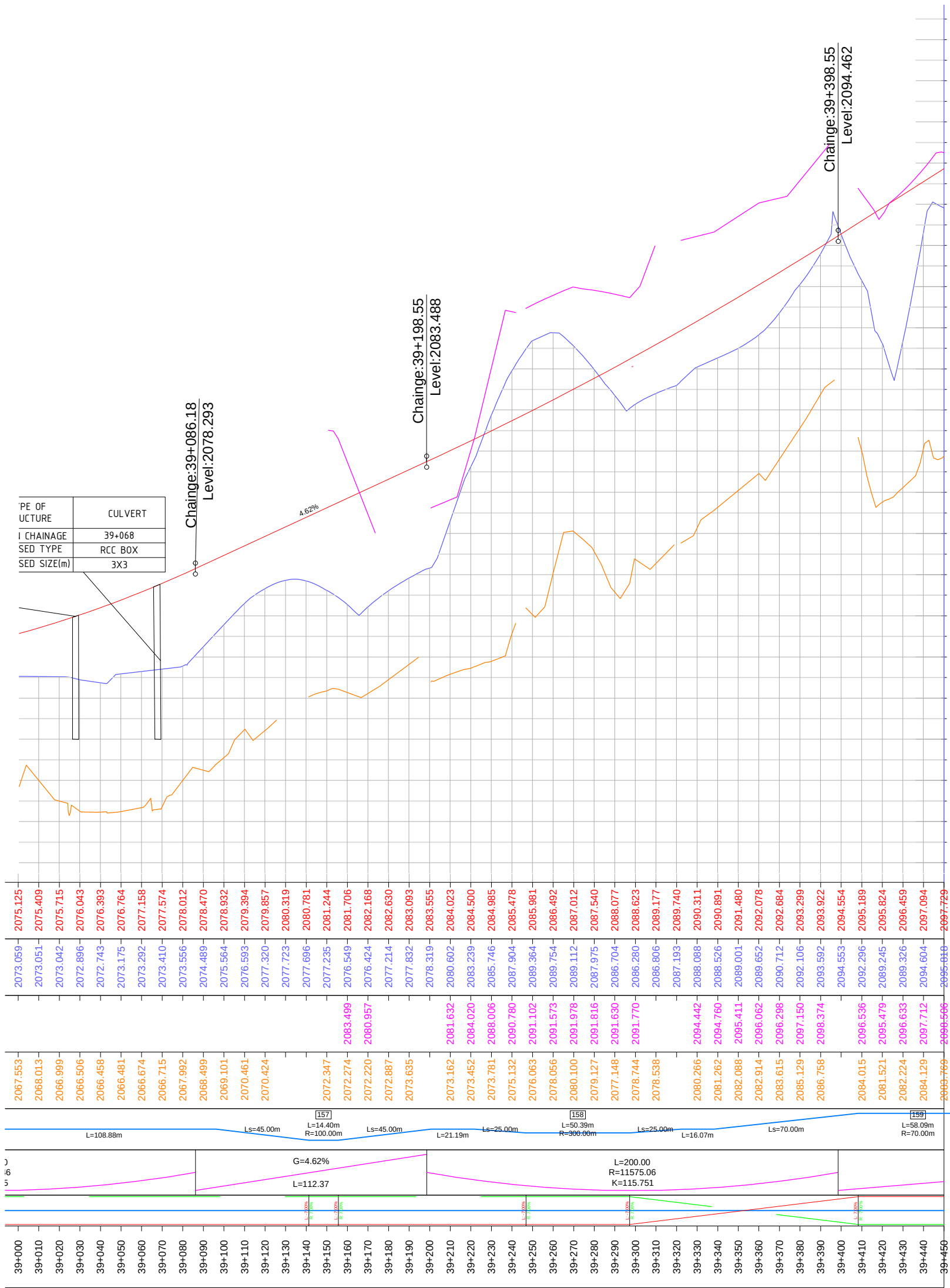
Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh."
FROM KHANABAL TO BALTAL(NH-501)
PACKAGE-2 SEER HAMDAN TO PAHALGAM

DRAWING No: NHIDCL/J&K/NH-501/P&P/PKG-2/S-22			
DRG. BY	DESIGNED	CHECKED	APPROVED
RKJ.	SS.	VPS.	IRM.

SHEET No:		01 OF 01	
DATE:		JAN. 2024	
SCALE:		HOR-1:1000 VER-1:100	
PAPER SIZE:		A2	
REV:		R0	

LEGEND:	
EXISTING PLAN:	
	:EX- ROAD
	:EX- ROW
	:ROAD CENTER LINE
	:RIVER/NALA/ POND
	:BUILDING/BOUNDARY
	:HOUSE/HUT/SCHOOL
	:ELECTRIC POLE
	:TREE
	:HUME PIPE CULVERT
	:TBM
	:MATCHLINE
	:TEMPLE
PROPOSED PLAN:	
	: PROPOSED ROW
	: DESIGN CENTER LINE
	: CARRIAGEWAY EDGE
	: PAVED SHOULDER
	: EARTHEN SHOULDER
	: DRAIN
	: SHYNESS
	: SERVICE ROAD
	: PRO. CULVERT
	: VUP
	: SVUP
	: BRIDGE

FINISHED ROAD LEVELS AT PROPOSED CENTER LINE
GROUND LEVEL BELOW PROPOSED CENTER LINE
GROUND LEVEL AT +12 M
GROUND LEVEL AT -12 M
HORIZONTAL SCHEMATIC
VERTICAL SCHEMATIC
SUPER ELEVATION
CHAINAGE



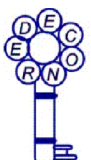
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CLIENT:



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Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh."

FROM KHANABAL TO BALTAL(NH-501)

PACKAGE-2 SEER HAMDAN TO PAHALGAM

DRAWING TITLE:

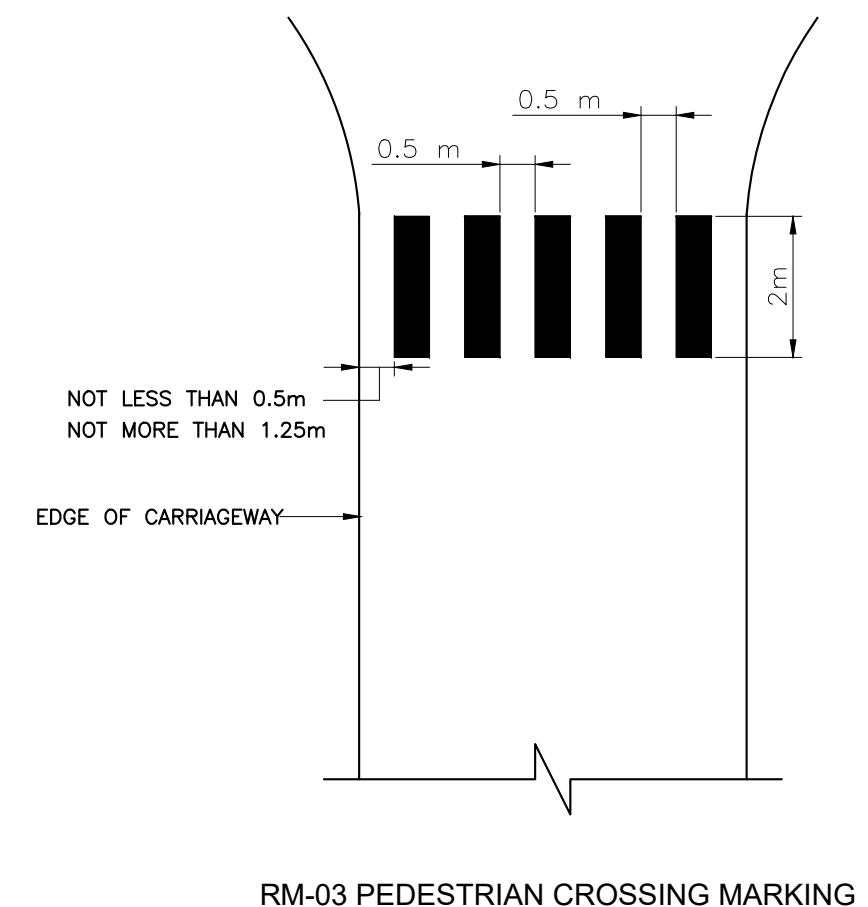
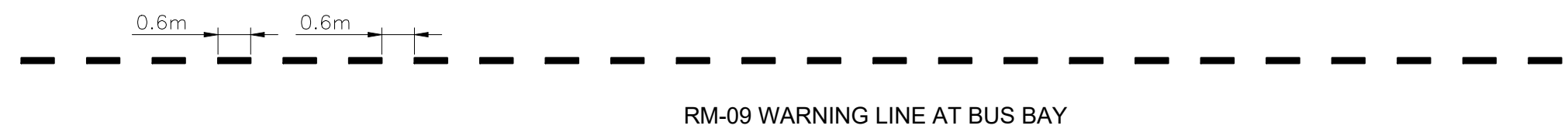
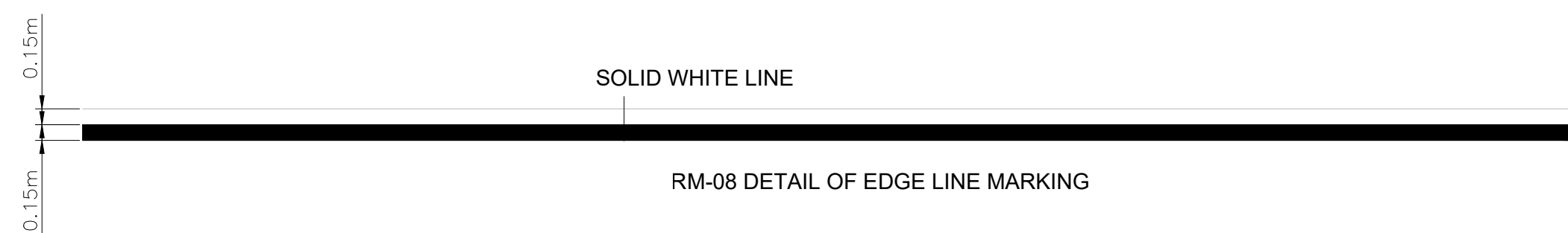
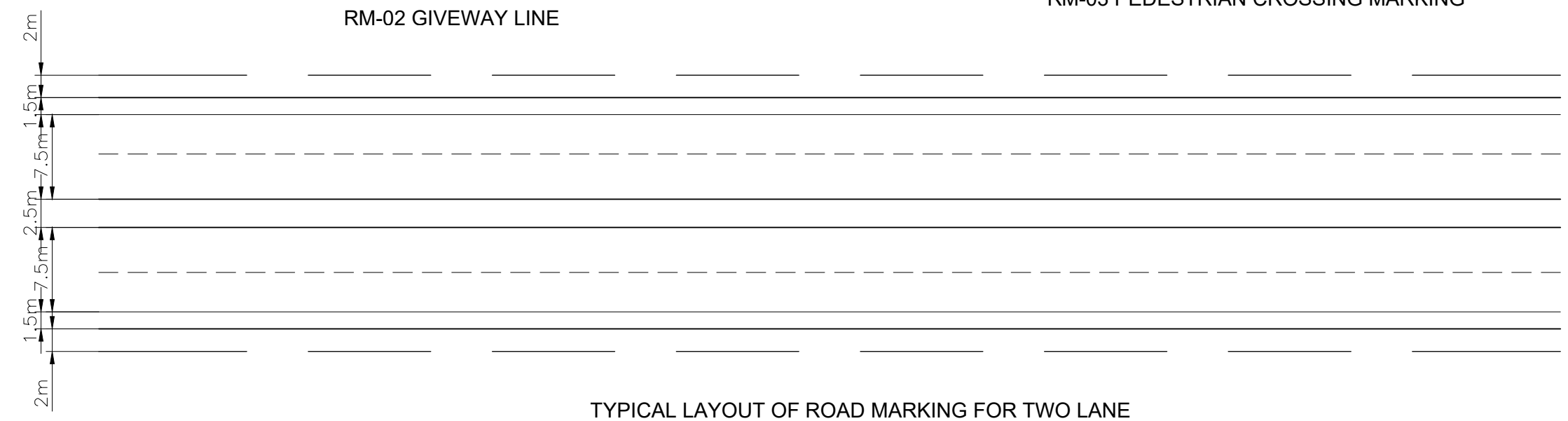
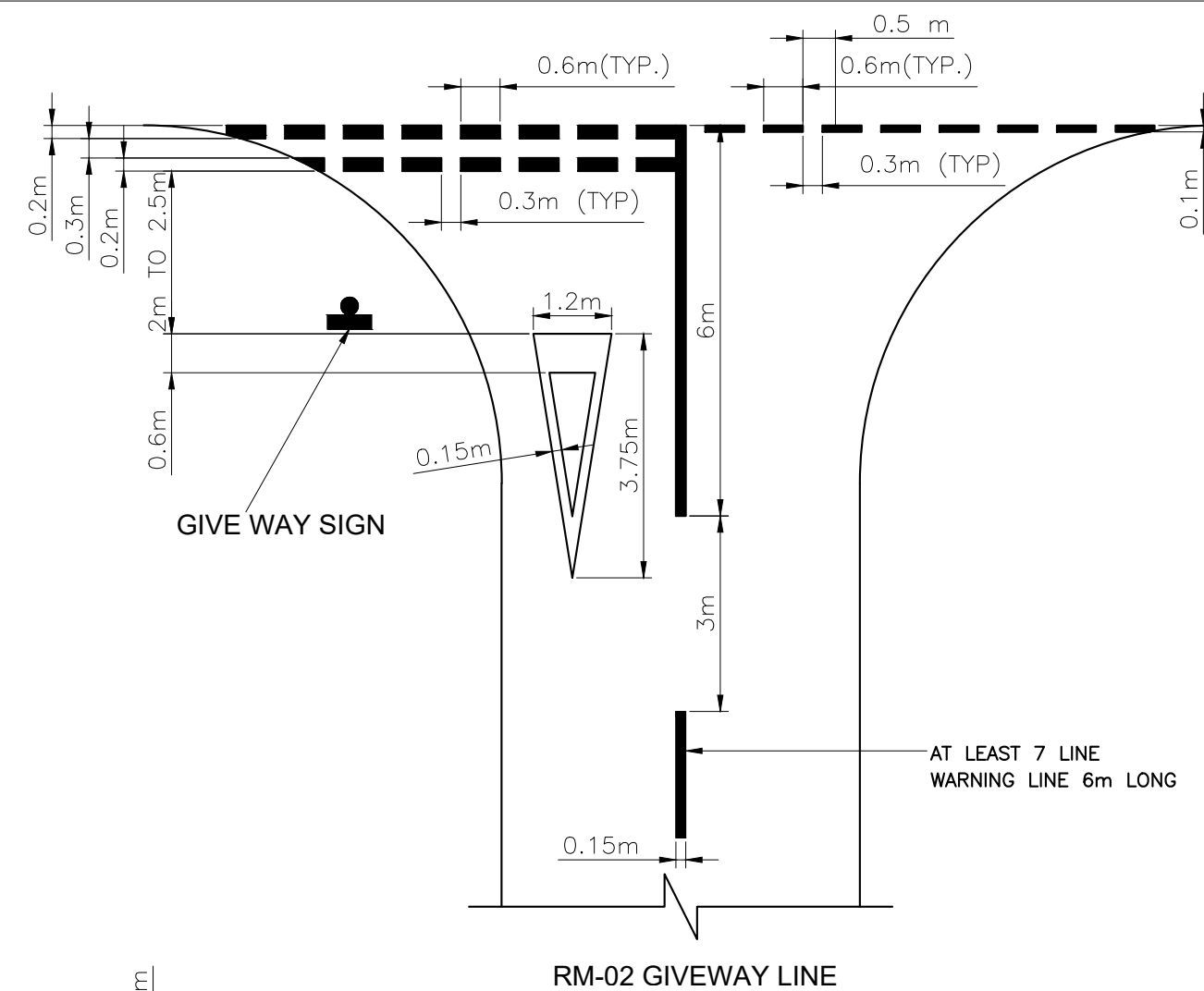
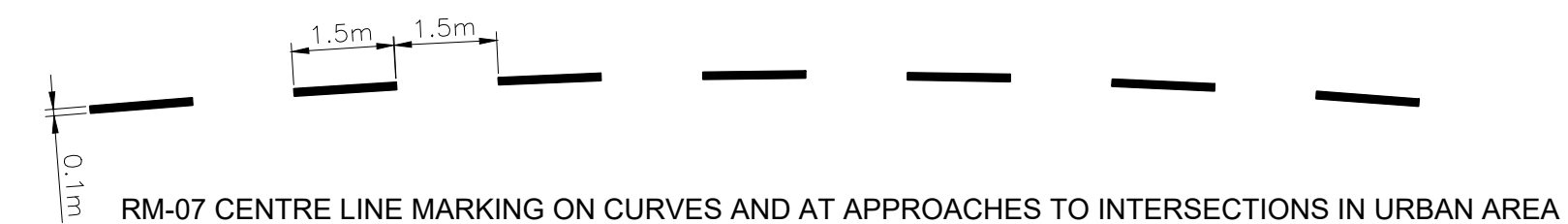
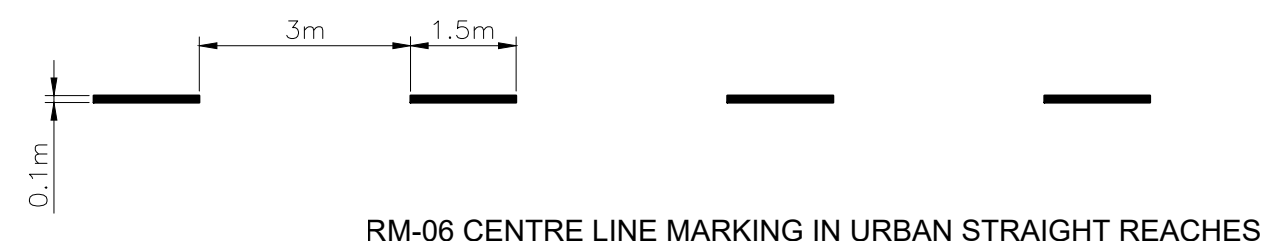
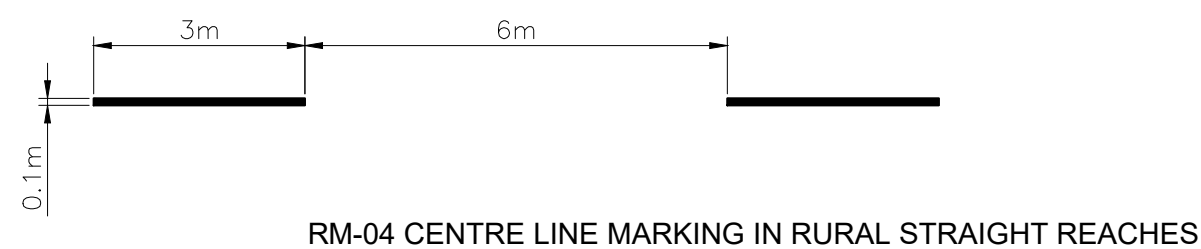
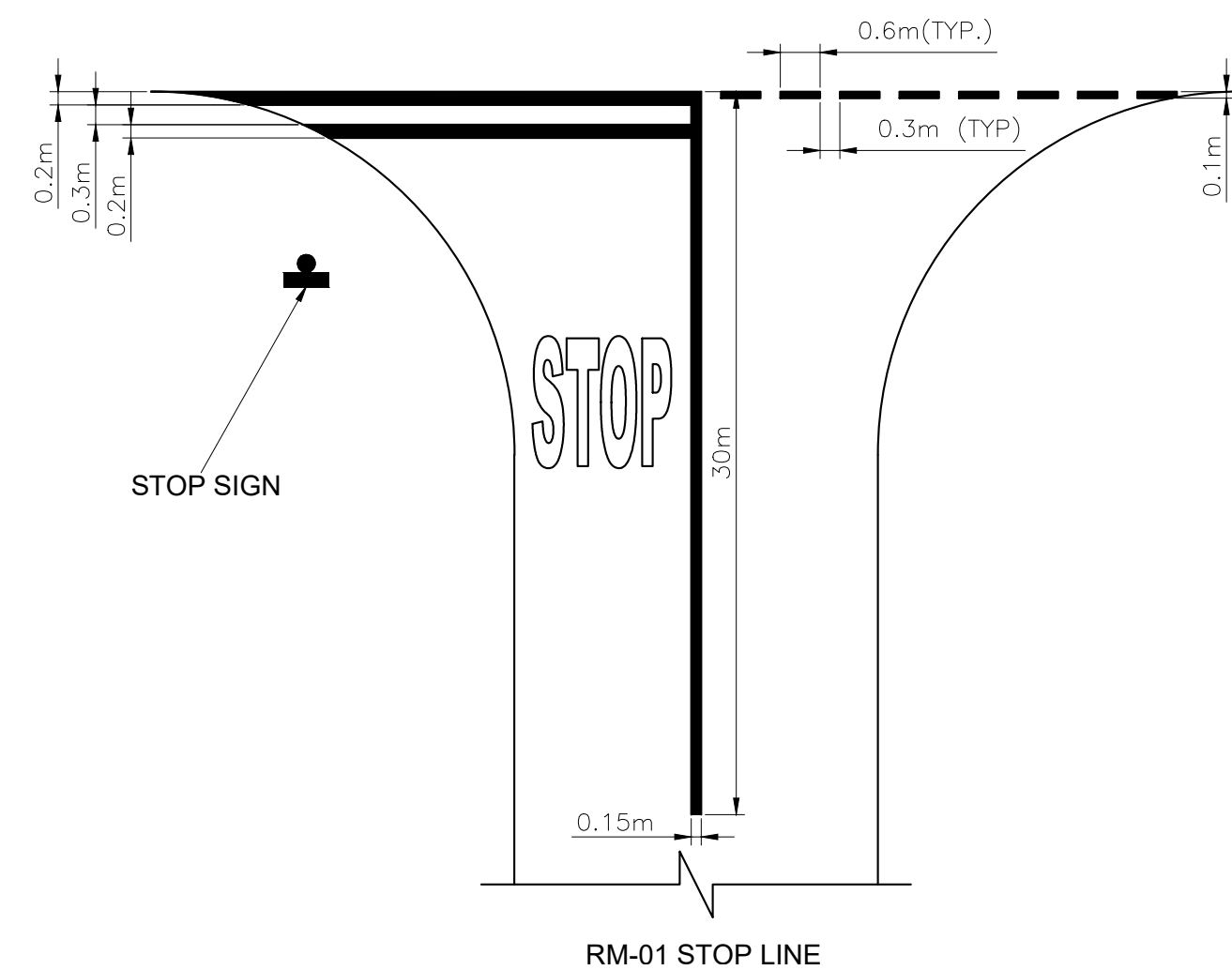
PLAN & PROFILE
CH: 38+500 TO 39+130

DRAWING No: NHIDCL/J&K/NH-501/P&P/PKG-2/S-24

DRG. BY	DESIGNED	CHECKED	APPROVED
RKJ.	SS.	VPS.	IRM.

SHEET No:	01 OF 01
DATE:	JAN. 2024
SCALE:	HOR-1:1000 VER-1:100
PAPER SIZE:	A2
REV:	R0

MISCELLANEOUS DRAWINGS PKG-2



						CLIENT:		CONSULTANT:		REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE:				SHEET No:		
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														NHIDCL/J&K/NH-501/PKG-2/ROAD MARKING/S-01				JAN. 2024	
REV.	DATE	DESCRIPTION			ENG.	DM	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.						DRAWN	DESIGNED	CHECKED	APPROVED	SCALE:	AS SHOWN	
													G.N	A.R	VPS.	IRM.	PAPER SIZE:	REV:	
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													PACKAGE-2 SEER HAMDAN TO PAHALGAM						



DETAILS OF DIAGONAL AND CHEVRON MARKING



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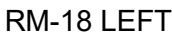
RM-13 RIGHT

RM-14 STRAIGHT & RIGHT

RM-15 STRAIGHT & LEFT

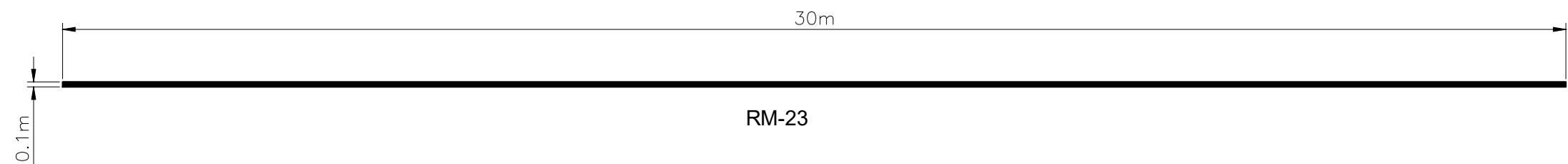
STRAIGHT & BOTH LEFT & RIGHT
RM-16 RM-17

RM-17

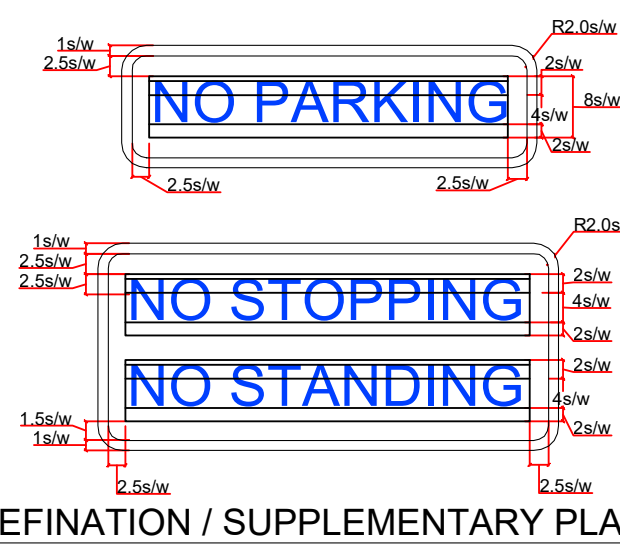
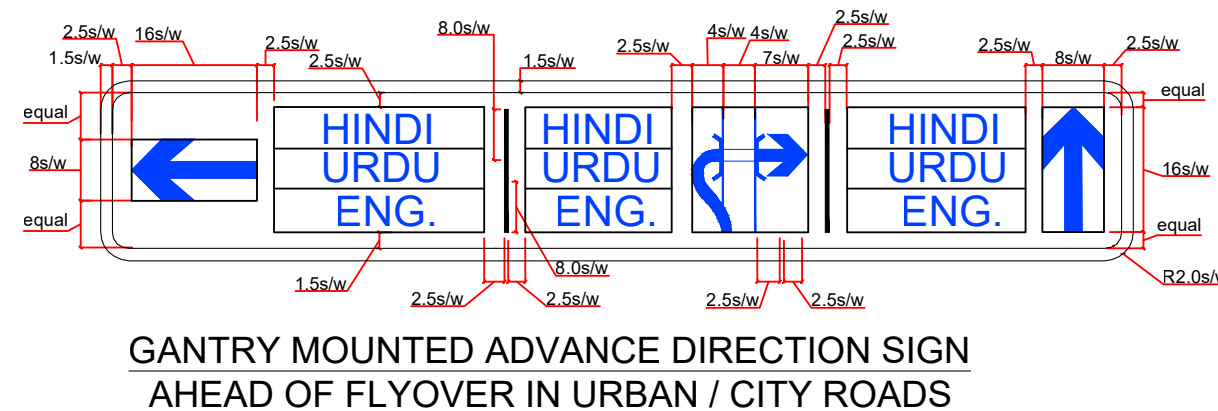
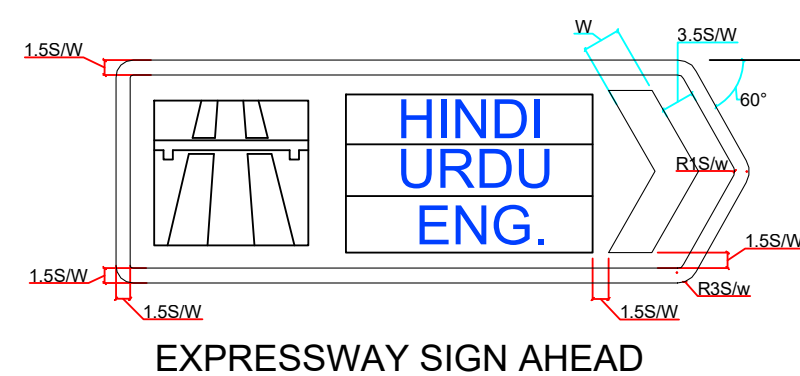
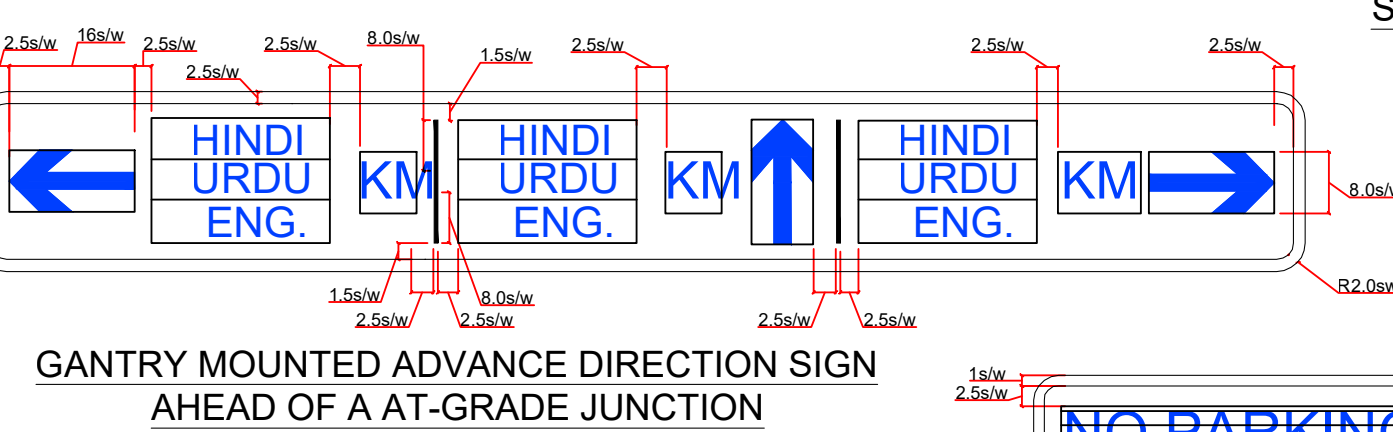
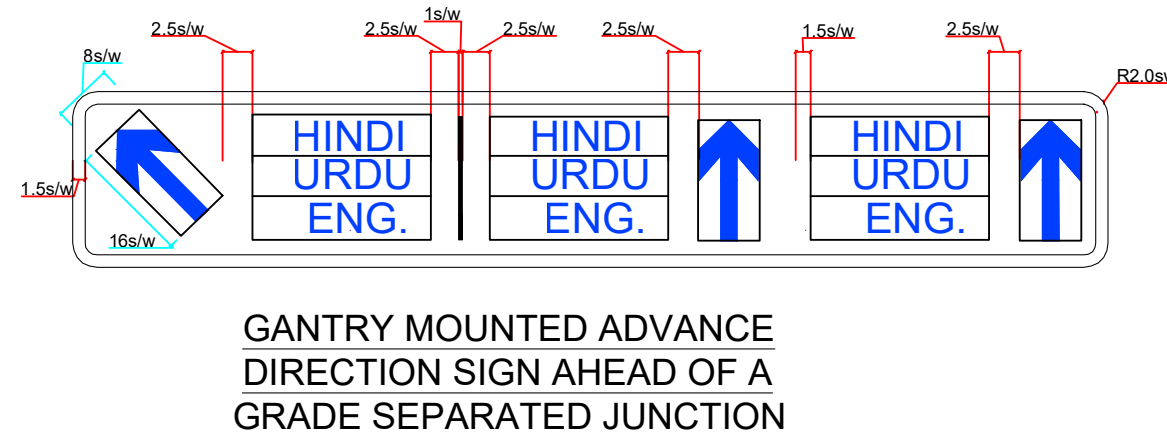
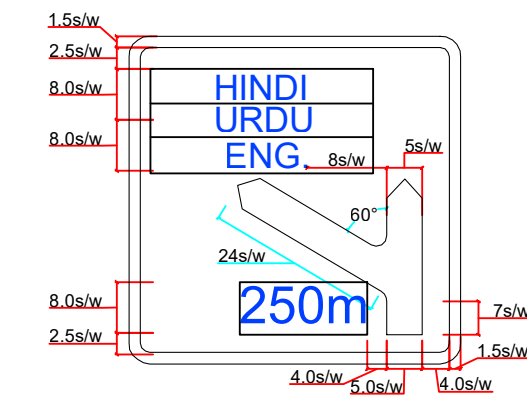
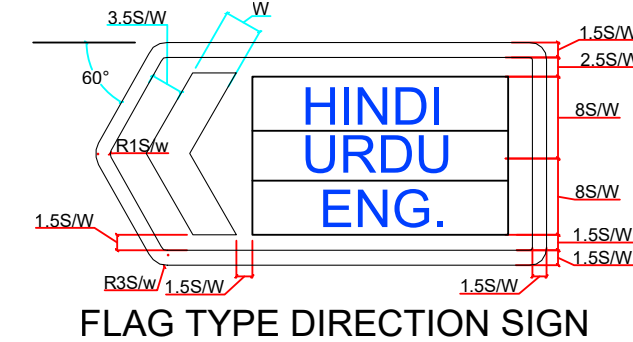
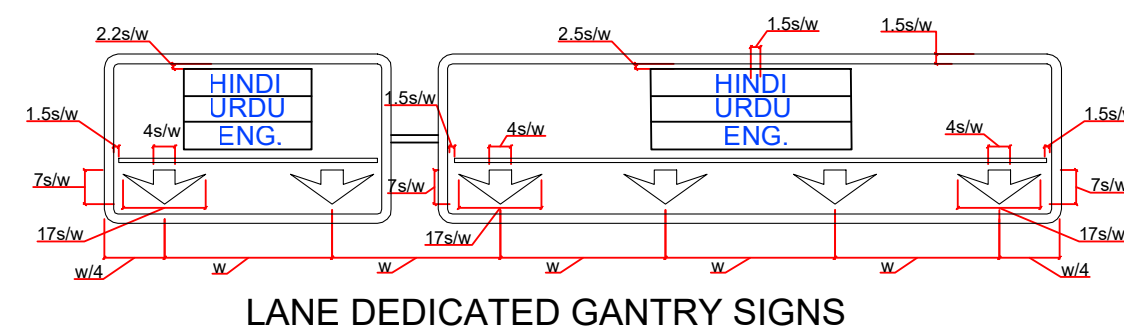
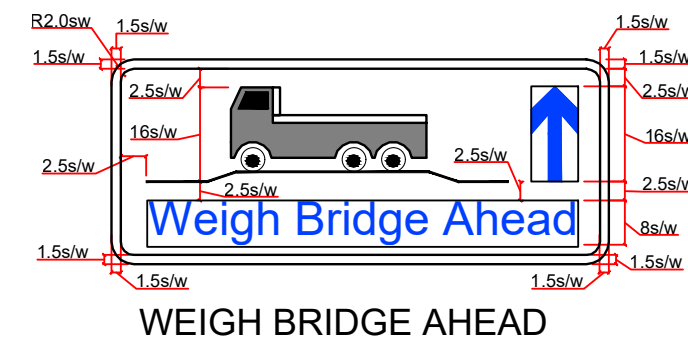
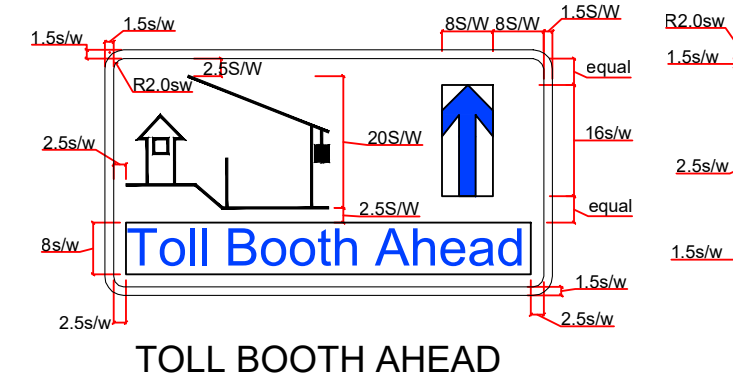
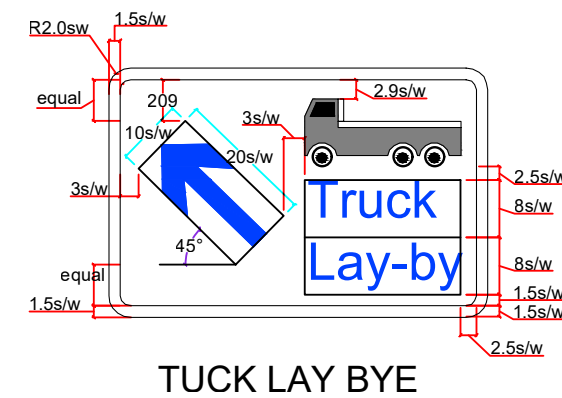
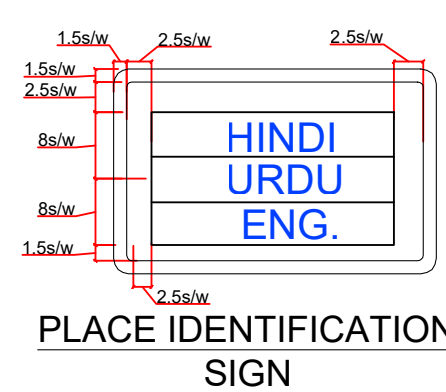
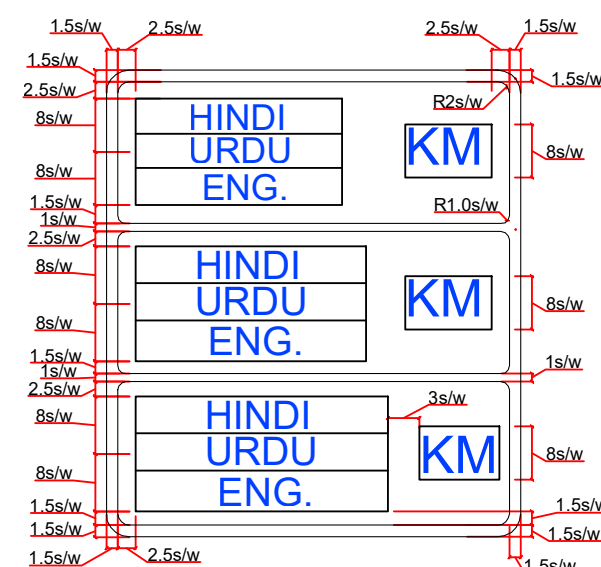
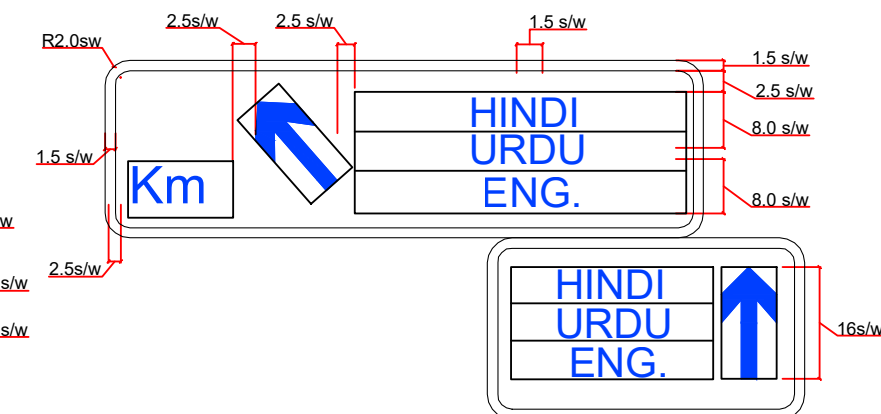
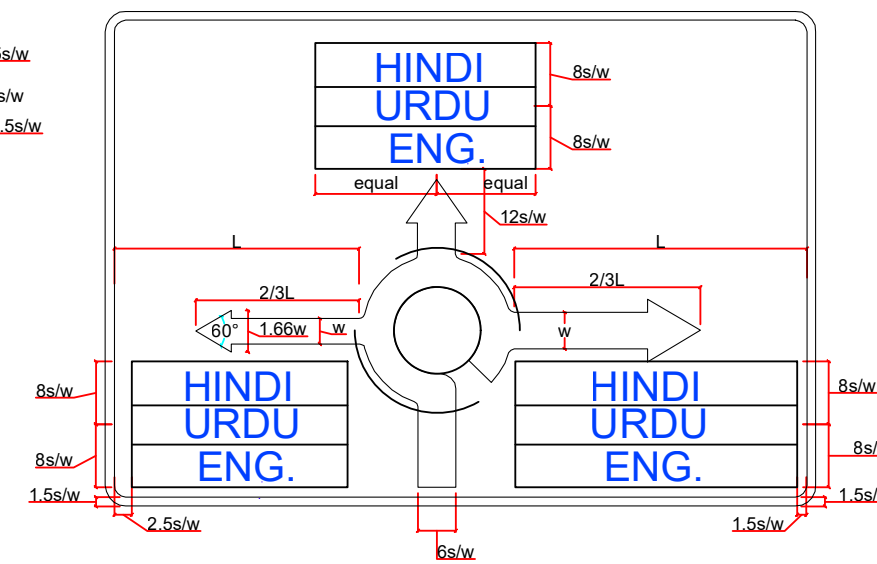
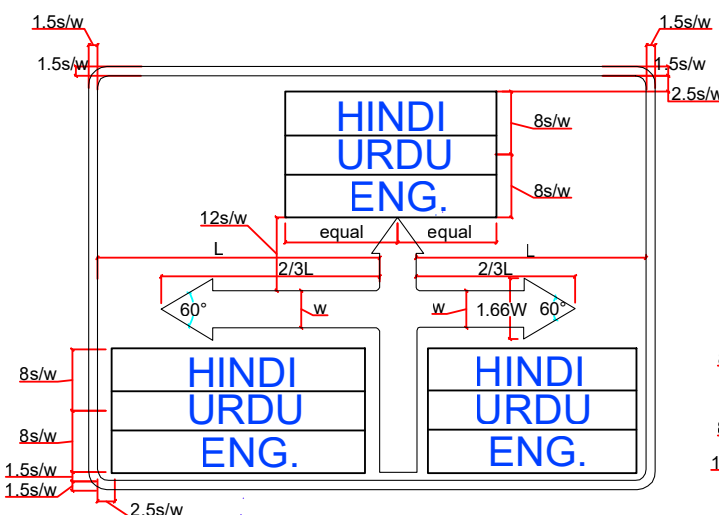
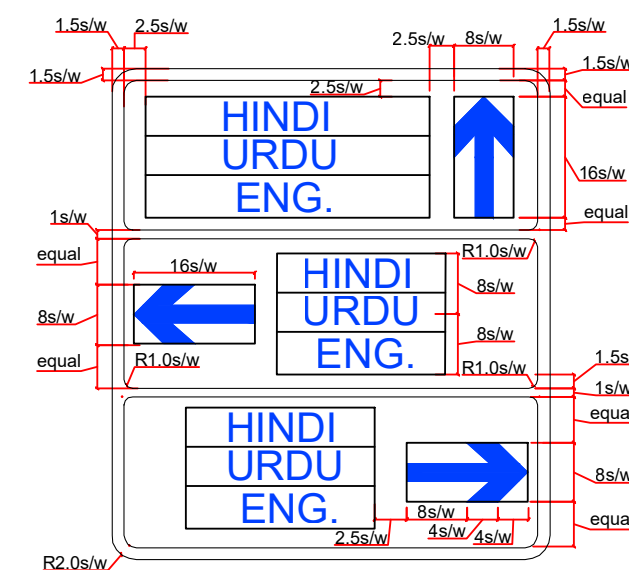


RM-19 RIGHT

ARROW MARKING FOR ROUTE DIRECTION

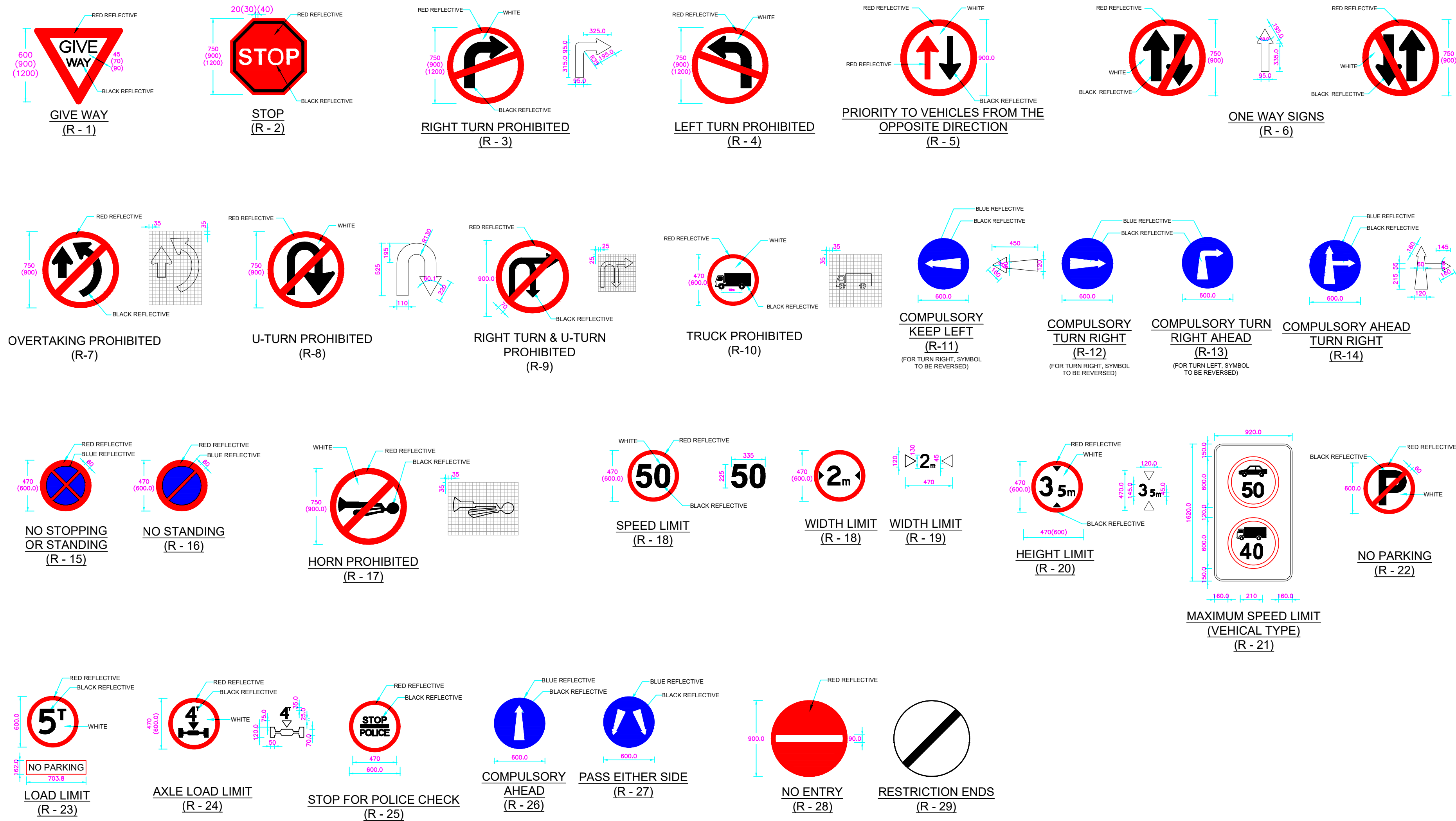


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										G.N	A.R	VPS.	IRM.	AS SHOWN	
REV.	DATE	DESCRIPTION	ENG.	DM		NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.		REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020		PACKAGE-2 SEER HAMDAN TO PAHALGAM				PAPER SIZE: A2	REV: 0

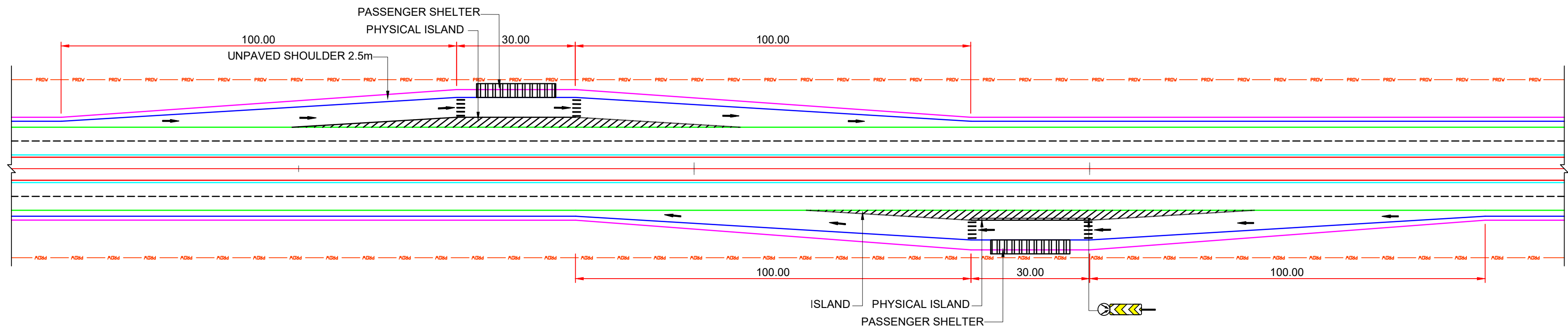


1. ALL ROAD SIGNS ARE IN ACCORDANCE WITH IRC-67-2012, "CODE OF PRACTICE FOR ROAD SIGNS"
2. $1s/w=\frac{1}{4}$ OF LOWERCASE "X" HEIGHT REFER TABLE 11.1 OF IRC: 67-2012 FOR "X"

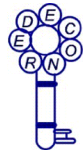
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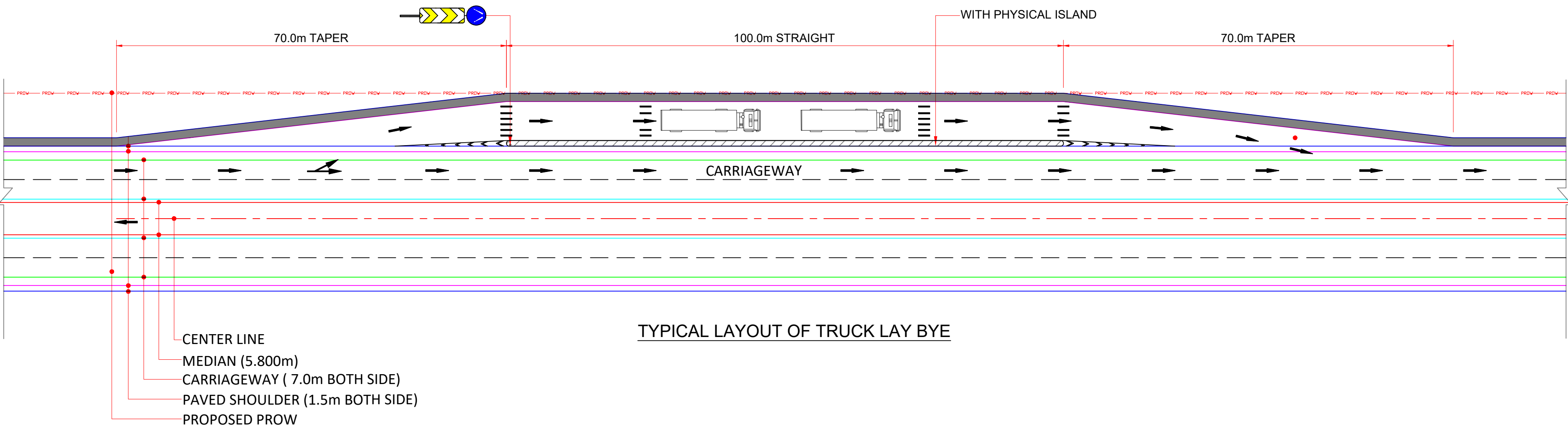


					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: "Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501) PACKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: TYPICAL ROAD SIGNAGES DETAILS				SHEET No: 01 OF 01	
									DRAWING No: NHIDCL/J&K/NH-501/PKG-2/ROAD SIGN/S-04	DATE: JAN. 2024			
REV.	DATE	DESCRIPTION	ENG.	DM					DRAWN G.N	DESIGNED A.R	CHECKED VPS.	APPROVED IRM.	SCALE: AS SHOWN

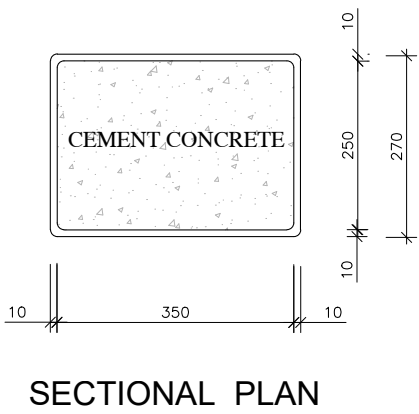
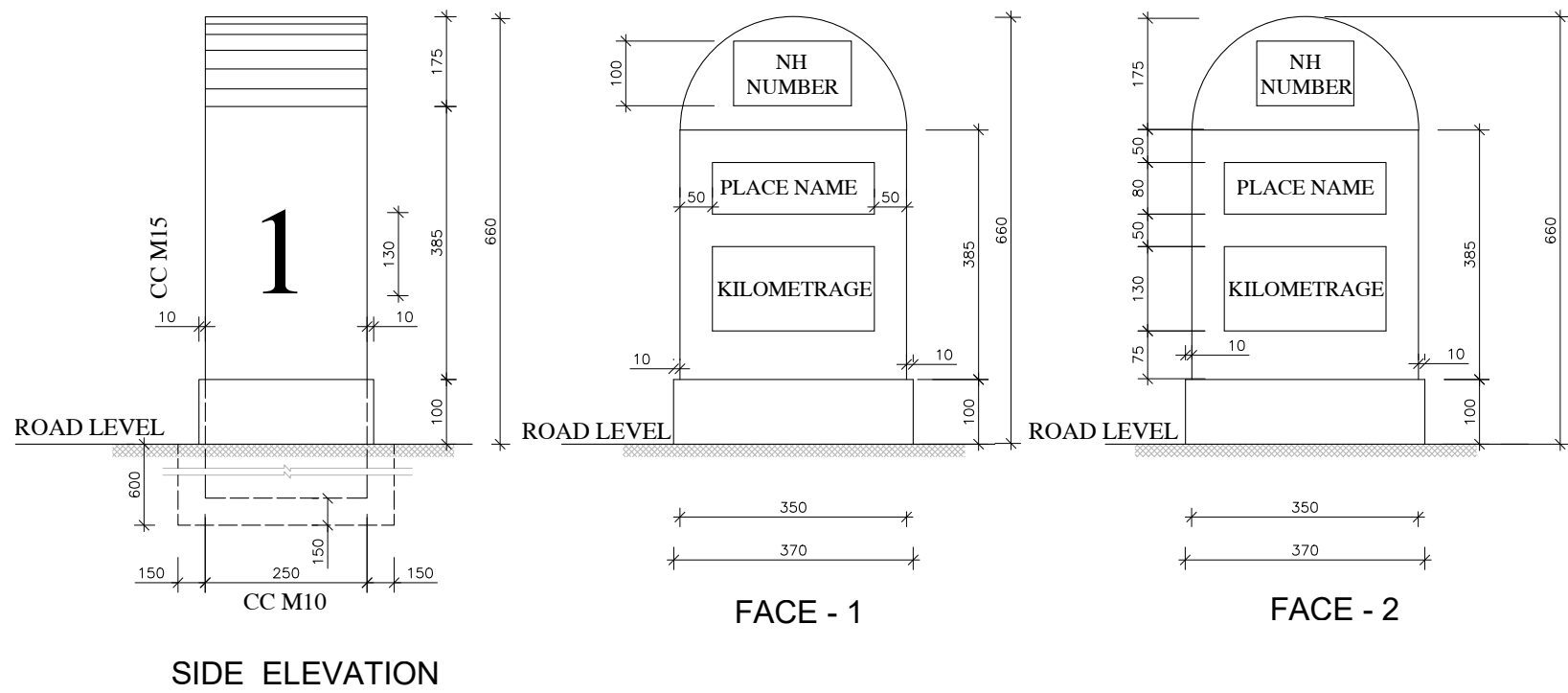


TYPICAL DRAWING OF BUS BAY

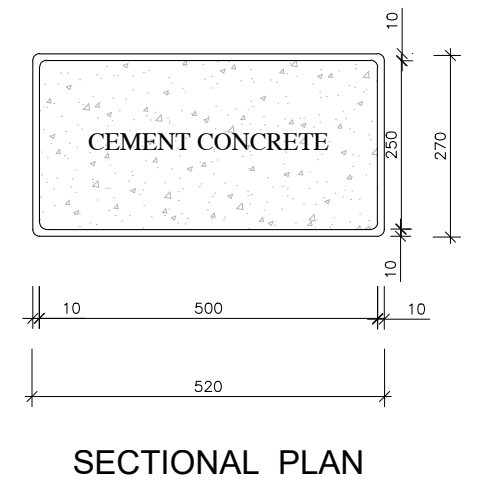
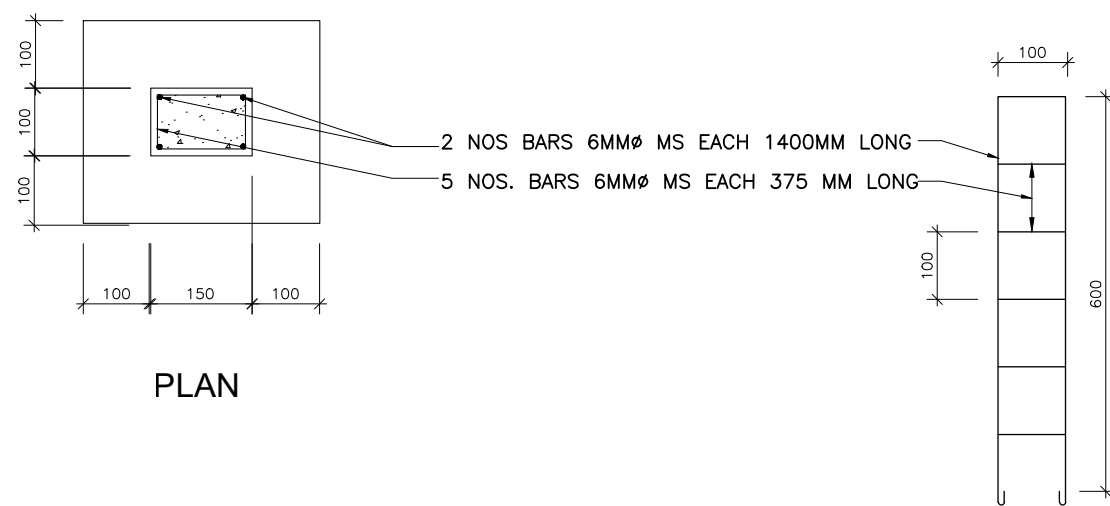
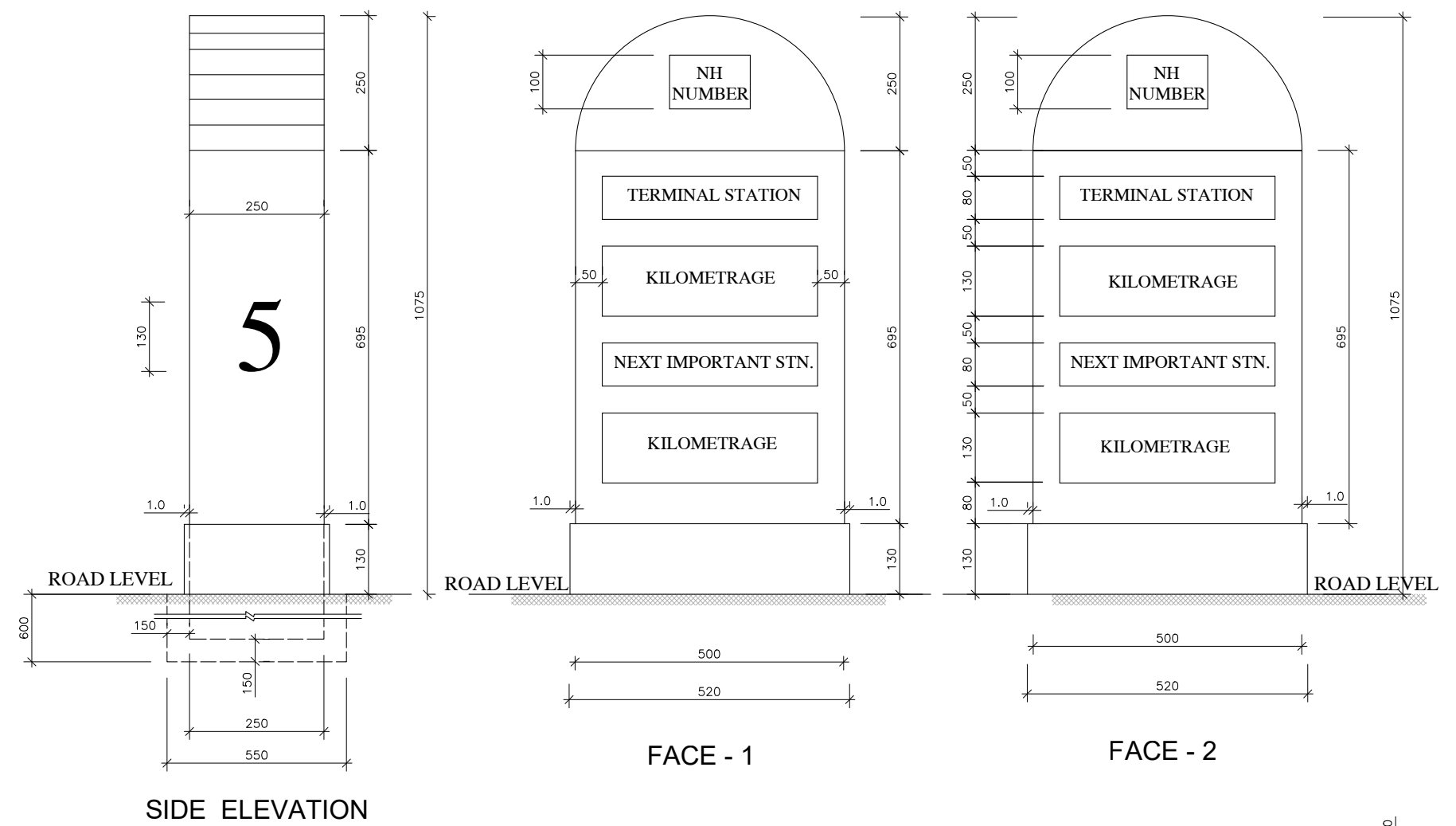
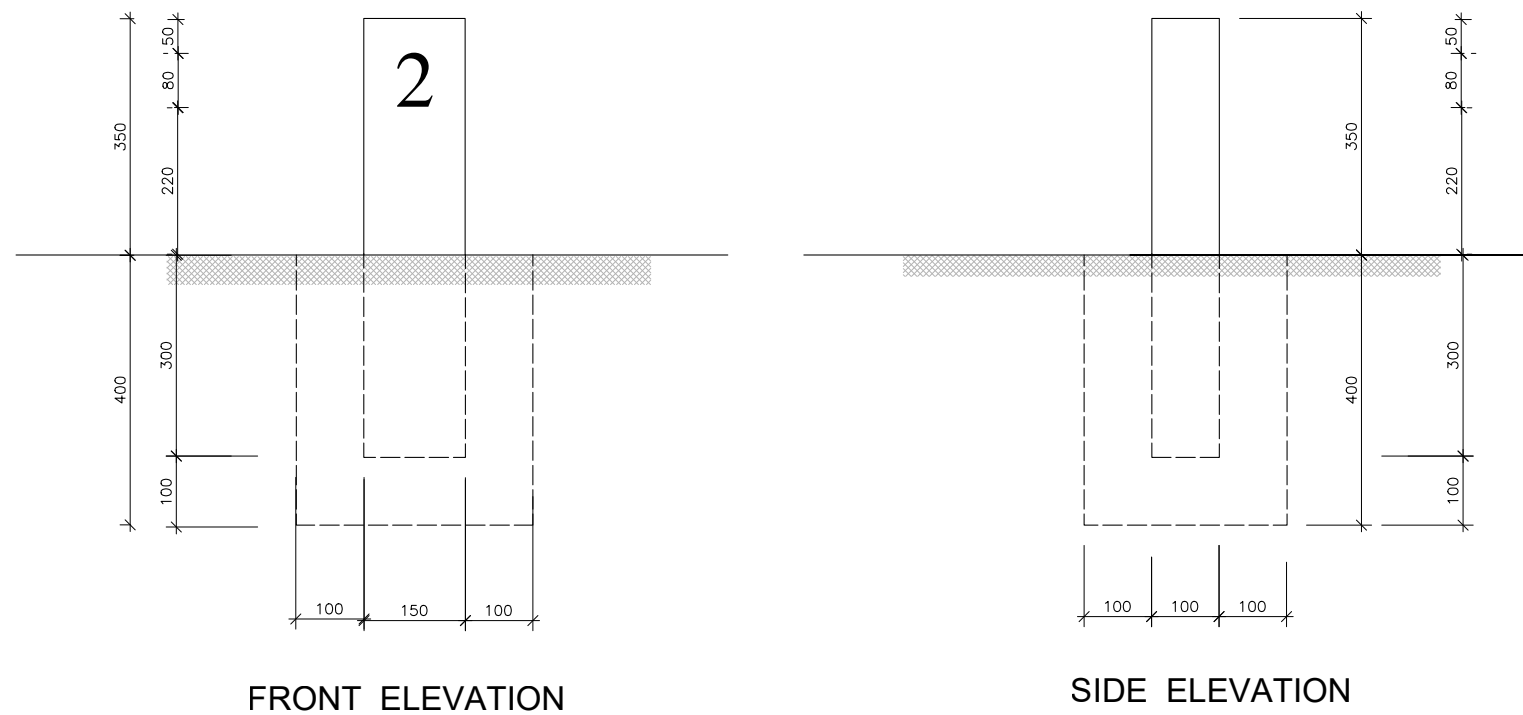
				CLIENT:	 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:	 REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501) PACKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: TYPICAL LAYOUT OF BUS BAY				SHEET No: 01 OF 01	
										DRAWING No: NHIDCL/J&K/NH-501/PKG-2/BUS BAY/S-01				DATE: JAN. 2024	
										DRAWN	DESIGNED	CHECKED	APPROVED	SCALE: AS SHOWN	
REV.	DATE	DESCRIPTION	ENG.	DM						G.N	A.R	VPS.	IRM.	PAPER SIZE: A2	REV: 0



					CLIENT:	 BUILDING INFRASTRUCTURE - BUILDING THE NATION	CONSULTANT:	 REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE:	TYPICAL DRAWING TRUCK LAY BYE				SHEET No: 01 OF 01	
											DRAWING No:	NHIDCL/J&K/NH-501/PKG-2/TRUCK LAY BYE/S-01				DATE: JAN. 2024	
											DRAWN	DESIGNED	CHECKED	APPROVED	SCALE: AS SHOWN		
REV.	DATE	DESCRIPTION	ENG.	DM		NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.				PACKAGE-2 SEER HAMDAN TO PAHALGAM	G.N	A.R	VPS.	IRM.	PAPER SIZE: A2	REV: 0	

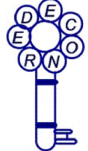


TYPE DESIGN FOR THE ORDINARY
KILOMETRE STONE

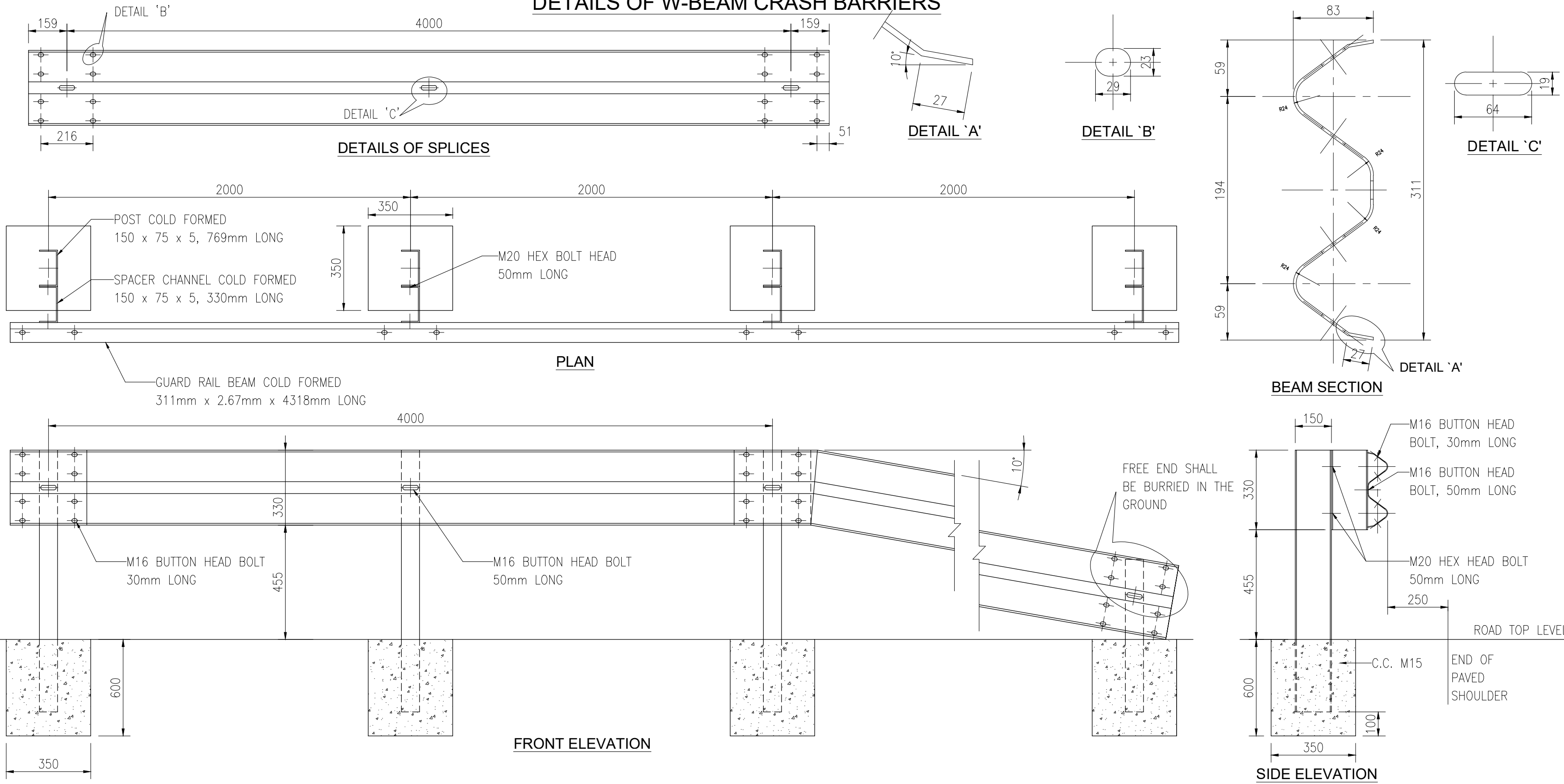


TYPE DESIGN FOR 200 - METRE STONE

- NOTE:-
- ALL DIMENSIONS ARE IN MILLIMETRES
 - FOR FURTHER DETAILS REFER IRC: 8- 1980 AND IRC: 26 - 1967

				CLIENT:		CONSULTANT:		PROJECT:	DRAWING TITLE:	SHEET No:
								"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	TYPICAL DRAWING OF KM & 5th KM STONE	01 OF 01
									DRAWING No:	DATE:
									NHIDCL/J&K/NH-501/PKG-2/KM STONE/S-01	JAN. 2024
									DRAWN	SCALE:
									G.N	AS SHOWN
									A.R	PAPER SIZE:
									V.P.S.	A2
									IRM.	REV:
										0
REV.	DATE	DESCRIPTION	ENG.	DM	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.			PACKAGE-2 SEER HAMDAN TO PAHALGAM		

DETAILS OF W-BEAM CRASH BARRIERS

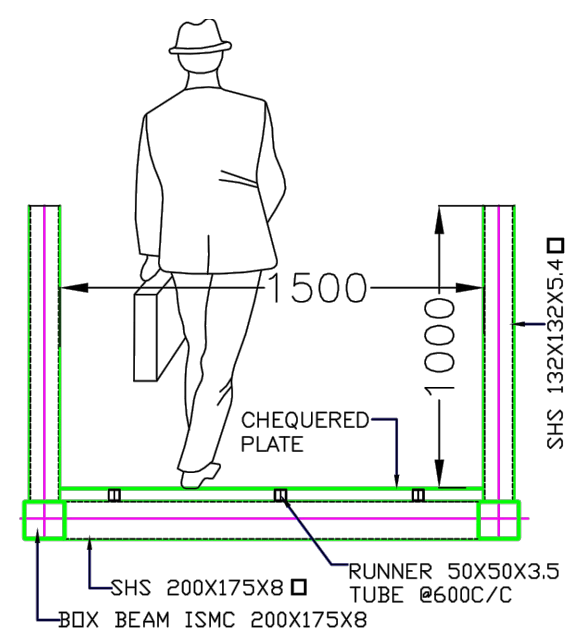
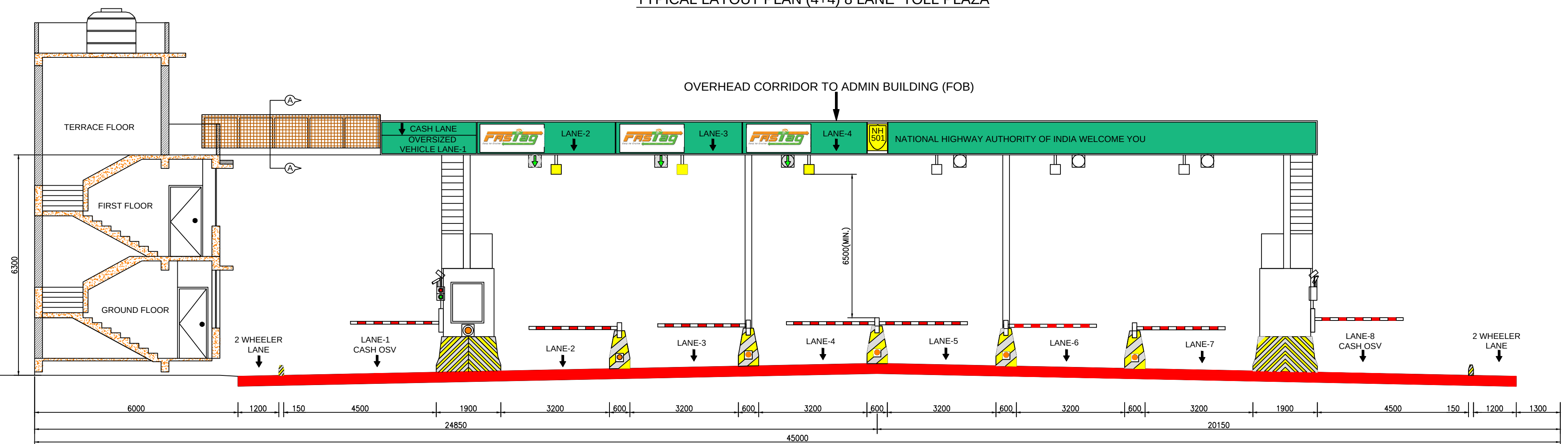
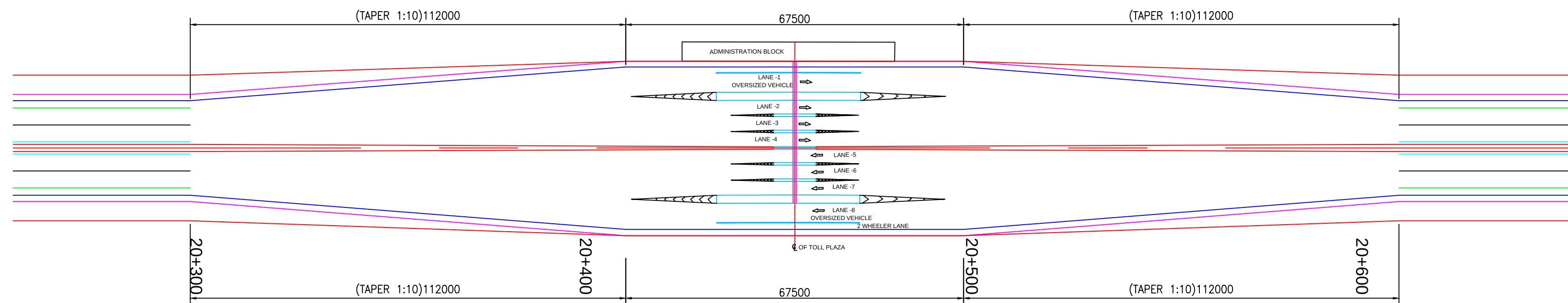


NOTE:

- HEIGHT OF POSTS SHOULD BE 785mm LONG ABOVE THE FINISHED ROAD LEVEL.
- SPACING OF POSTS SHOULD BE 2.0m C/C.
- 1 No. SPACER CHANNEL SHOULD BE PLACED AT EACH POST.
- W=PROFILE FORMED CORRUGATED BEAMS (EFFECTIVE LENGTH OF 4318mm), 311mm x 83mm.
- POST CONSISTS OF FORMED CHANNEL OF SIZE 150 x 75 x 5, 785mm LONG ABOVE GROUND LVL.
- SPACER CONSISTS OF FORMED CHANNEL OF SIZE 150 x 75 x 5, 330mm LONG.
- BUTTON HEAD BOLTS M16 x 30mm LONG, 8 Nos FOR THE SPlicing OF THE W PROFILE AT EACH LOCATION.
- BUTTON HEAD BOLTS M16 x 50mm LONG, 1 Nos AT THE CONNECTION OF THE W BEAM TO SPACER.
- HEX HEAD BOLTS M20 x 50mm LONG , 2 Nos AT THE CONNECTION OF THE SPACER TO POST.

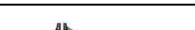
- THE BEAM ELEMENTS SHALL BE FORMED SHEETS HAVING NOMINAL WIDTH OF 483mm.
- THE BASE MATERIAL OF THE CORRUGATED BEAM SHALL COMPLY TO FOLLOWING MECHANICAL PROPERTIES:–
 - TENSILE STRENGTH, MIN=483 MPA.
 - ELONGATION, in 2 inches, MIN = 12%
 - YIELD, MIN=345 MPA.
- ALL MEMBERS OF THE SYSTEM SHOULD BE HOT DIPPED GALVANIZED AND TO HAVE A MINIMUM COATING OF 550g/Sq m, EACH FACE IN CONFORMANCE TO M.O.R.T & H. SPECIFICATIONS (CLAUSE 810).
- BEAMS TO BE ERECTED ON A RADIUS OF 46m (150') OR LESS SHALL BE SHAPE CURVED TO APPROPRIATE CURVATURE.
- CRASH BARRIERS ARE POSTED ON ALL SECTION OF EMBANKMENT WHOSE HEIGHT IS >= TO 3m, HORIZONTAL CURVES OF RADIUS < 360m AND ALSO AT ALL BRIDGE APPROACHES FOR LENGTH OF 50m ON BOTH SIDES FOR MAJOR & 25m FOR MINOR BARIDGE.
- BEAM SURFACE FACING THE TRAFFIC IS PAINTED WITH ALTERNATE BANDS (500mm WIDE) OF BLACK & YELLOW COLOUR REFLECTORIFIED PAINT CONFORMING CL.803.5 OF M.O.R.T & H SPEC.

					CLIENT:		CONSULTANT:		PROJECT:	DRAWING TITLE:	DRAWING No:				SHEET No:	
											DETAILS OF W-BEAM CRASH BARRIER				01 OF 01	
											NHIDCL/J&K/NH-501/PKG-2/W-BEAM/S-01				DATE:	
											DRAWN		DESIGNED		JAN. 2024	
											G.N		A.R		SCALE:	
											V.P.S.		I.R.M.		AS SHOWN	
REV.	DATE	DESCRIPTION	ENG.	DM		NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.					PAKAGE-2 SEER HAMDAN TO PAHALGAM				PAPER SIZE:	
															A2	
															REV: 0	



NOTES:-

1. ALL DIMENSIONS ARE IN MM.
UNLESS OTHERWISE MENTIONED.
2. TAPER LENGTH OF TOLL PLAZA IS 1 IN 10 .
3. REFERENCE OF
IRC: SP: 84-2019 (FOR TOLL PLAZA DETAIL)
4. FOR DETAILED DESIGN OF ADMINISTRATIVE
BUILDING REFER SEPARATE DRAWING

					CLIENT:		CONSULTANT:		REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE:				SHEET No:			
														TYPICAL DETAILS OF TOLL PLAZA				01 OF 01	
														DRAWING No: NHIDCL/J&K/NH-501/PKG-2/TOLL PLAZA/S-01				DATE: JAN. 2024	
																SCALE: AS SHOWN			
												DRAWN	DESIGNED	CHECKED	APPROVED				
												G.N	A.R	VPS.	IRM.	PAPER SIZE: A2	REV: 0		
REV.	DATE	DESCRIPTION			ENG.	DM	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.				PACKAGE-2 SFFR HAM DAN TO PAHAL GAW								