



OFFICE OF THE EXECUTIVE ENGINEER
NATIONAL HIGHWAY DIVISION
DR.RAJENDRA PRASAD ROAD. KASHIVISHWANATH PLOT
RAJKOT-360 001 (GUJARAT)

CONSULTANCY SERVICES FOR FEASIBILITY STUDY AND PREPARATION OF DETAILED PROJECT REPORT
FOR IMPROVEMENT AND UP GRADATION OF IN PRINCIPLE DECLARED NATIONAL HIGHWAYS
UNA - DHARI - BAGASARA- AMRELI - BABRA - JASDAN - CHOTILA ROAD
IN THE STATE OF GUJARAT

FINAL DETAILED PROJECT REPORT
ROAD & STRUCTURE DRAWINGS

SECTION : BAGASARA TO UNA (NH-351K) - From Km 0/000 to 102/284
BOOK 1 OF 1

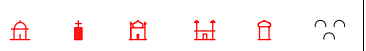
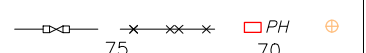
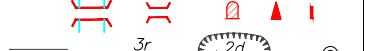
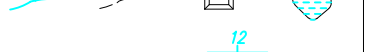
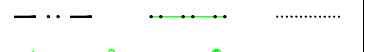


SECON PVT. LTD.
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April, 2025

BAGASARA TO UNA CH:0/000 TO 102/284 (FINAL DETAILED PROJECT REPORT)

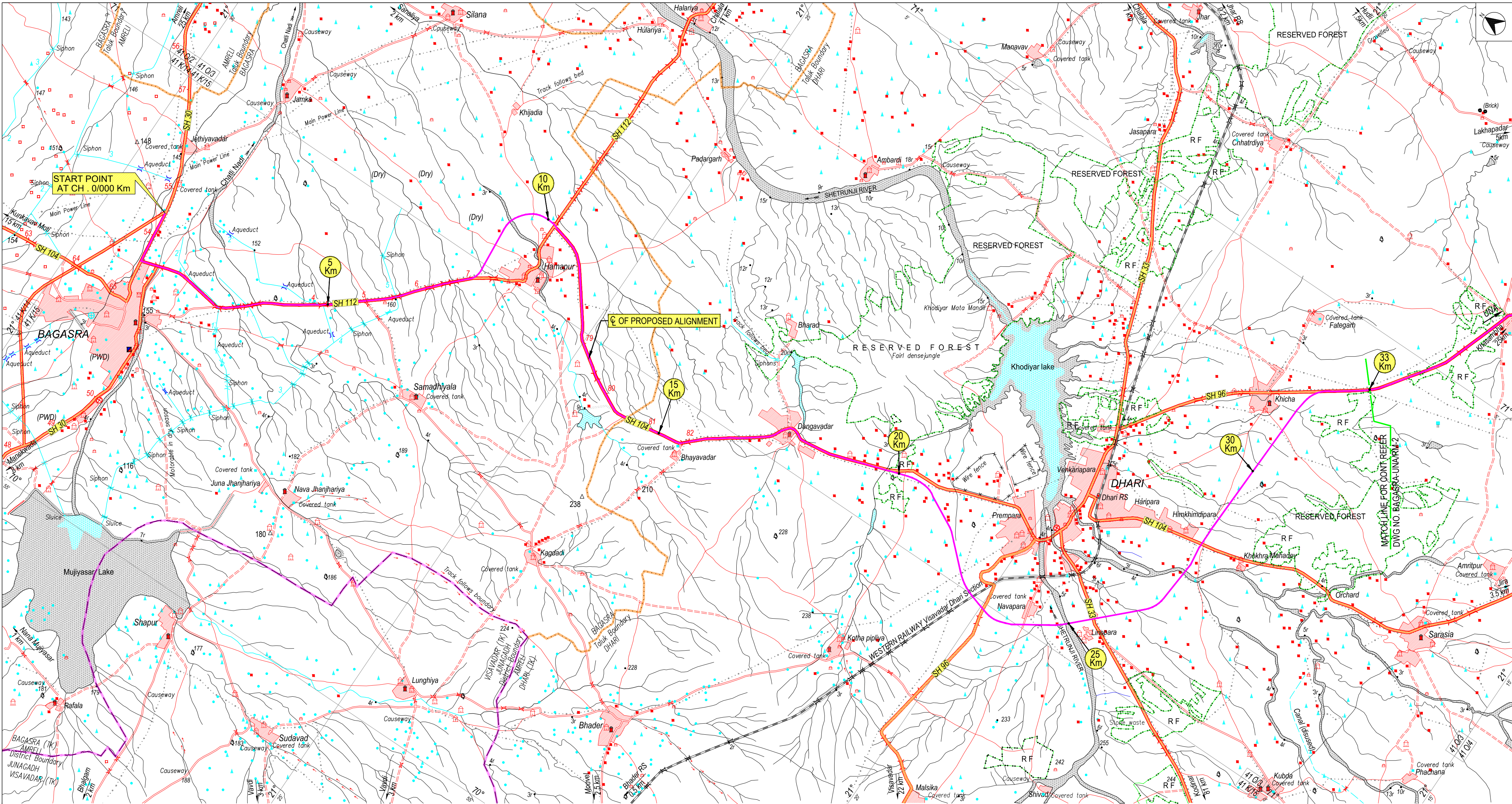
	DWG. NO.	DESCRIPTION				SI No.	DWG. NO.	DESCRIPTION	SI No.	DWG. NO.	DESCRIPTION	
GENERAL LEGENDS			24	BU-P&P-18	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:17/000 KM TO 18/000 KM	53	BU-P&P-47	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:46/000 KM TO 47/000 KM	82	BU-P&P-75	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:87/000 KM TO 88/000 KM	
1	BU-G-01	(NH-351K) SECTION :BAGASARA TO UNA GENERAL LEGENDS	25	BU-P&P-19-19A	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:18/000 KM TO 19/000 KM	54	BU-P&P-48	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:47/000 KM TO 48/743 KM	83	BU-P&P-76	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:88/000 KM TO 89/000 KM	
			26	BU-P&P-20	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:19/000 KM TO 2/000 KM	55	BU-P&P-48A	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:48/000 KM TO 48/743 KM	84	BU-P&P-77	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:89/000 KM TO 90/000 KM	
LOCATION MAP			27	BU-P&P-21	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:20/000 KM TO 21/000 KM	56	BU-P&P-49	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:61/732 KM TO 62/000 KM	85	BU-P&P-78	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:90/000 KM TO 91/000 KM	
			28	BU-P&P-22	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:21/000 KM TO 22/000 KM	57	BU-P&P-50	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:62/000 KM TO 63/000 KM	86	BU-P&P-79	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:91/000 KM TO 92/000 KM	
2	BU-RM-01 TO BU-RM-04	(NH-351K) SECTION :BAGASARA TO UNA CH:0/00 TO 102/284.768	29	BU-P&P-23	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:22/000 KM TO 23/000 KM	58	BU-P&P-51	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:63/000 KM TO 64/000 KM	87	BU-P&P-80	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:92/000 KM TO 93/000 KM	
TYPICAL CROSS SECTION			30	BU-P&P-24	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:23/000 KM TO 24/000 KM	59	BU-P&P-52	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:64/000 KM TO 65/000 KM	88	BU-P&P-81	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:93/000 KM TO 94/000 KM	
3	BU-TCS-01 TO BU-TCS-06	(NH-351K) TYPICAL CROSS SECTION & DETAILS	31	BU-P&P-25	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:24/000 KM TO 25/000 KM	60	BU-P&P-53	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:65/000 KM TO 66/000 KM	89	BU-P&P-82	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:94/000 KM TO 95/000 KM	
TYPICAL INTERSECTION			32	BU-P&P-26	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:25/000 KM TO 26/000 KM	61	BU-P&P-54	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:66/000 KM TO 67/000 KM	90	BU-P&P-83	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:95/000 KM TO 96/000 KM	
4	BU-R-21 TO BU-R-25A	(NH-351K) TYPICAL INTERSECTIONS	33	BU-P&P-27	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:26/000 KM TO 27/000 KM	62	BU-P&P-55	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:67/000 KM TO 68/000 KM	91	BU-P&P-84	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:96/000 KM TO 97/000 KM	
PLAN & PROFILE			34	BU-P&P-28	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:27/000 KM TO 28/000 KM	63	BU-P&P-56	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:68/000 KM TO 69/000 KM	92	BU-P&P-85	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:97/000 KM TO 98/000 KM	
5	BU-P&P-01	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:0/000 KM TO 1/000 KM	35	BU-P&P-29	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:28/000 KM TO 29/000 KM	64	BU-P&P-57	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:69/000 KM TO 70/000 KM	93	BU-P&P-86	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:98/000 KM TO 99/000 KM	
6	BU-P&P-02	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:1/000 KM TO 2/000 KM	36	BU-P&P-30	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:29/000 KM TO 30/000 KM	65	BU-P&P-58	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:70/000 KM TO 71/000 KM	94	BU-P&P-87	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:99/000 KM TO 100/000 KM	
7	BU-P&P-03	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:2/000 KM TO 3/000 KM	37	BU-P&P-31	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:30/000 KM TO 31/000 KM	66	BU-P&P-59	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:71/000 KM TO 72/000 KM	95	BU-P&P-88	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:100/000 KM TO 102/284 KM	
8	BU-P&P-04	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:3/000 KM TO 4/000 KM	38	BU-P&P-32	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:31/000 KM TO 32/000 KM	67	BU-P&P-60	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:72/000 KM TO 73/000 KM	SCHEMATIC LINEAR PLAN			
9	BU-P&P-05	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:4/000 KM TO 5/000 KM	39	BU-P&P-33	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:32/000 KM TO 33/000 KM	68	BU-P&P-61	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:73/000 KM TO 74/000 KM	96	BU-S-01 TO BU-S-23	SCHEMATIC LINEAR PLAN (NH-351K) SECTION :BAGASARA TO UNA CH:0/00 TO CH.102/284	
10	BU-P&P-06	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:5/000 KM TO 6/000 KM	40	BU-P&P-34	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:33/000 KM TO 34/000 KM	69	BU-P&P-62	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:74/000 KM TO 75/000 KM	BUS BAY & SHELTER			
11	BU-P&P-07	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:6/000 KM TO 7/000 KM	41	BU-P&P-35	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:34/000 KM TO 35/000 KM	70	BU-P&P-63	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:75/000 KM TO 76/000 KM	97	BU-BS-01 TO BS-02	(NH-351K) SECTION :BAGASARA TO UNA BUS BAY & SHELTER	
12	BU-P&P-08	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:7/000 KM TO 8/000 KM	42	BU-P&P-36	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:35/000 KM TO 36/000 KM	71	BU-P&P-64	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:76/000 KM TO 77/000 KM	TOLL PLAZA			
13	BU-P&P-09	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:8/000 KM TO 9/000 KM	43	BU-P&P-37	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:36/000 KM TO 37/000 KM	72	BU-P&P-65	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:77/000 KM TO 78/000 KM	98	BU-T-01	(NH-351K) SECTION :BAGASARA TO UNA TOLL PLAZA : 3+3 LANES	
14	BU-P&P-10	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:9/000 KM TO 10/000 KM	44	BU-P&P-38	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:37/000 KM TO 38/000 KM	73	BU-P&P-66	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:78/000 KM TO 79/000 KM	TRUCK LAY BYE			
15	BU-P&P-11	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:10/000 KM TO 11/000 KM	45	BU-P&P-39	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:38/000 KM TO 39/000 KM	74	BU-P&P-67	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:79/000 KM TO 80/000 KM	99	BU-TLB-01	(NH-351G & NH-351K) SECTION :BAGASARA TO UNA TRUCK LAY BYE	
16	BU-P&P-12	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:11/000 KM TO 12/000 KM	46	BU-P&P-40	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:39/000 KM TO 40/000 KM	75	BU-P&P-68	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:80/000 KM TO 81/000 KM	ROAD MARKINGS & SIGNS			
17	BU-P&P-13	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:12/000 KM TO 13/000 KM	47	BU-P&P-41	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:40/000 KM TO 41/000 KM	76	BU-P&P-69	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:81/000 KM TO 82/000 KM	100	BU-R-41 TO R-47	(NH-351K) SECTION :BAGASARA TO UNA	
18	BU-P&P-14	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:13/000 KM TO 14/000 KM	48	BU-P&P-42	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:41/000 KM TO 42/000 KM	77	BU-P&P-70	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:82/000 KM TO 83/000 KM	MISCELLENIOUS DRAWINGS			
19	BU-P&P-15	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:14/000 KM TO 15/000 KM	49	BU-P&P-43	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:42/000 KM TO 43/000 KM	78	BU-P&P-71	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:83/000 KM TO 84/000 KM	101	BU-R-51 TO R-55	(NH-351K) SECTION :BAGASARA TO UNA	
21	BU-P&P-16	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:15/000 KM TO 16/000 KM	50	BU-P&P-44	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:43/000 KM TO 44/000 KM	79	BU-P&P-72	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:84/000 KM TO 85/000 KM				
22	BU-P&P-17	PLAN (NH-351K) SECTION : BAGASARA TO UNA CH:16/000 KM TO 17/000 KM	51	BU-P&P-45	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:44/000 KM TO 45/000 KM	80	BU-P&P-73	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:85/000 KM TO 86/000 KM				
23	BU-P&P-17A	PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:16/000 KM TO 17/000 KM	52	BU-P&P-46	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:45/000 KM TO 46/000 KM	81	BU-P&P-74	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CH:86/000 KM TO 87/000 KM				

PLANIMETRY LEGEND

Roads: main; others: mud, Cart – track, Foot – path.	
Buildings: permanent; temporary; under construction.	
Temple, Church, Mosque, Idgah, Tomb, Graves.	
Pylon, Transformer, Power line, Telephone line, OFC, Lamp post.	
Compound wall with gate, Wire fence, Pump house, Man – hole,.....	
Railway: Broad Gauge with KM Stone; Narrow Gauge with KM Stone.....	
Bridge: Culvert; KM Stone; Sub KM Stone; Furlong Stone.....	
Embankment, Cutting with relative height, Quarry, Brick kiln.	
Streams: defined; undefined, Tanks: lined; unlined.	
Drains: large; small, Canals: double line; single line.	
Wells; tube; bore, Hand pump, Water tap.	
Village boundary, Forest boundary, Cultivation limit.	
Trees: coconut; ordinary; palmyra, Hedges.	
Heights: GPS; bench – mark; traverse station; spot level.	

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV
0	10.10.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date 21.11.2023		Drawn by PATRICK	Checked by SRIKANTH	Scale NTS	
File name BU–G–01		Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 01 OF 01	

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT RAJKOT-360 001, GUJARAT	
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT	
	(NH-351K) SECTION : BAGASARA TO UNA GENERAL LEGENDS	
	Plot Size : (A2 Size)	DRG.NO : BU–G–01



LEGEND	
Roads: NH/SH; metalled with bridge & embankment; unmetalled.	
Cart-track. Pack-track. Footpath.	
Streams: defined; undefined. Canal with aqueduct & distance stone.	
Dams: masonry or rock-filled; earthwork. Weir.	
River: dry with water channel; with island & rocks. Tidal river.	
Wells: lined; unlined. Tube-well. Spring. Tanks: perennial; dry.	
Embankments: road or rail. Cutting. Quarry. Broken ground.	
Railways, broad gauge: double; single with station & dist. stone; u/construction; other.	
Contours with value. Sheet rock. Rocky ground. Boulders.	
Towns or Villages: inhabited; deserted. Fort.	
Huts: permanent; temporary. Watch tower; Brick kiln. Graves.	
Temple. Chhatri. Church. Mosque. Idgah. Tomb. Shrine.	
Hospital. Dispensary. Veterinary hospital. Police station.	
Trees: Palm; Palmyra; Ordinary; Surveyed. Grass. Scrub.	
Boundary: state; district; taluk.	
Village trijunction. Reserved forest. Cultivation limit.	
Main Power line. Power line.	
Heights, triangulated: station; point; Bench-mark: GPS Flag Control.	
Road: Proposed Alignment.	

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, NORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV
0	15.10.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by	PATRICK	Checked by	SRIKANTH
File name	BU-RM-01	Designed by	SURYA KIRAN	Approved by	SHIVAPRASAD
		Scale		1 : 50,000	
		Sheets		01 OF 04	

CLIENT

NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIWASHWANATH PLOT
RAJKOT-360 001, GUJARAT

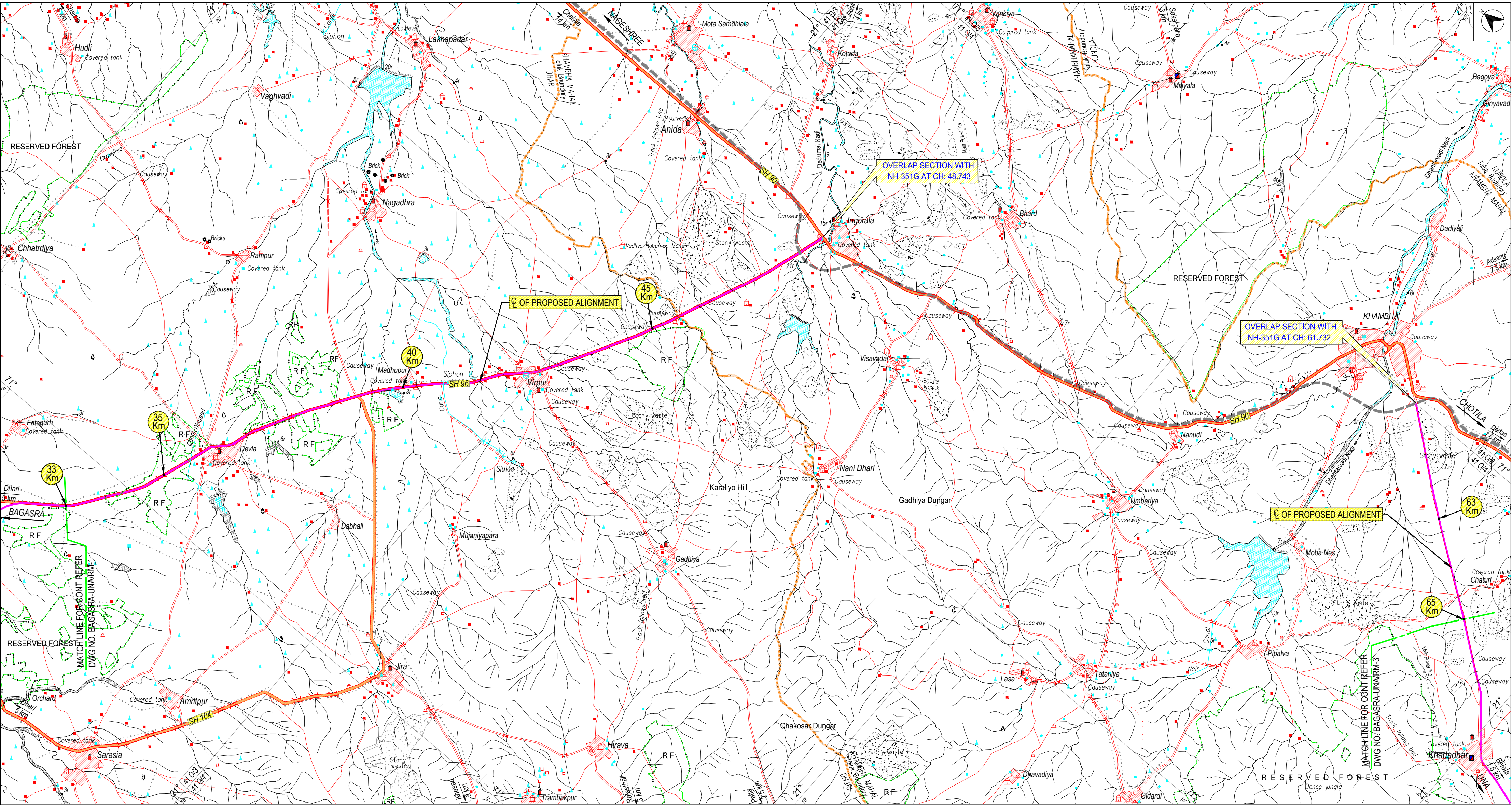
PROJECT

**CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT**

**(NH-351K)
SECTION : BAGASARA TO UNA
CH. 0/00 TO 33/00 KM**

Plot Size : (A2 Size)

DRG.NO : BU-RM-01



LEGEND	
Roads: NH/SH;metalled with bridge & embankment;unmetalled.....	
Cart-track. Pack-track. Footpath.....	
Streams: defined; undefined. Canal with aqueduct & distance stone.....	
Dams: masonry or rock-filled; earthwork.Weir.....	
River: dry with water channel;with island & rocks.Tidal river.....	
Wells: lined; unlined.Tube-well.Spring.Tanks: perennial; dry.....	
Embankments:road or rail. Cutting.Quarry. Broken ground.....	
Railways, broad gauge: double; single with station & dist. stone; u/construction;other.....	
Contours with value.Sheet rock.Rocky ground.Boulders.....	
Towns or Villages: inhabited; deserted. Fort.....	
Huts: permanent; temporary. Watch tower; Brick kiln.Graves.....	
Temple. Chhatri. Church. Mosque. Idgah. Tomb.Shrine.....	
Hospital.Dispensary. Veterinary hospital.Police station.....	
Trees: Palm;Palmyra;Ordinary;Surveyed. Grass.Scrub.....	
Boundary: state; district; taluk.....	
Village trijunction.Reserved forest.Cultivation limit.....	
Main Power line. Power line.....	
Heights, traingulated: station;point;Bench-mark: GPS Flag Control.....	
Road: Proposed Alignment.....	

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV
0	15.10.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale 1 : 50,000	
File name	BU-RM-02	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 02 OF 04	

CLIENT

**NATIONAL HIGHWAY DIVISION, RAJKOT**
DR. RAJENDRA PRASAD ROAD, KASHIWASHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

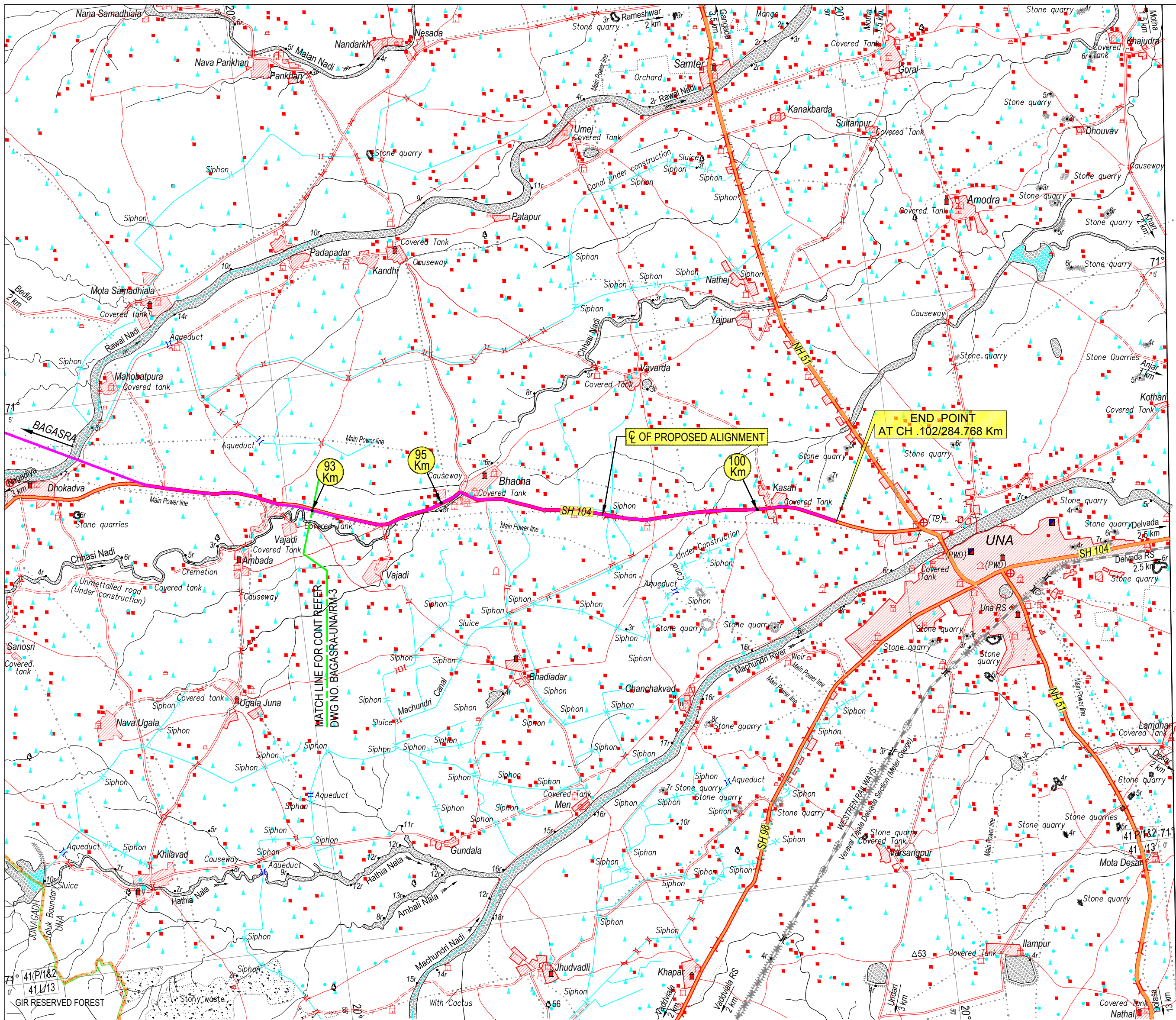
**CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT**

**SECON**

(NH-351K)
SECTION : BAGASARA TO UNA
CH. 33/00 TO 65/00 KM

Plot Size : (A2 Size)

DRG.NO : BU-RM-02



LEGEND	
Roads: NH/SH;metalled with bridge & embankment;unmetalled.....	
Cart-track. Pack-track. Footpath.....	
Streams: defined; undefined. Canal with aqueduct & distance stone.....	
Dams: masonry or rock-filled; earthwork.Weir.....	
River: dry with water channel;with island & rocks.Tidal river.....	
Wells: lined; unlined.Tube-well.Spring.Tanks: perennial; dry.....	
Embankments:road or rail. Cutting.Quarry. Broken ground.....	
Railways, broad gauge: double; single with station & dist. stone; u/construction;other.....	
Contours with value.Sheet rock.Rocky ground.Boulders.....	
Towns or Villages: inhabited; deserted. Fort.....	
Huts: permanent; temporary. Watch tower; Brick kiln.Graves.....	
Temple. Chhatri. Church. Mosque. Idgah. Tomb.Shrine.....	
Hospital.Dispensary. Veterinary hospital.Police station.....	
Trees: Palm; Palmyra; Ordinary; Surveyed. Grass.Scrub.....	
Boundary: state; district; taluk.....	
Village trijunction.Reserved forest.Cultivation limit.....	
Main Power line. Power line.....	
Heights, triangulated: station;point;Bench-mark: GPS. Flag Control.....	
Road: Proposed Alignment.....	

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV
0	15.10.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale 1 : 50,000	
File name	BU-RM-04	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 04 OF 04	

CLIENT



NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

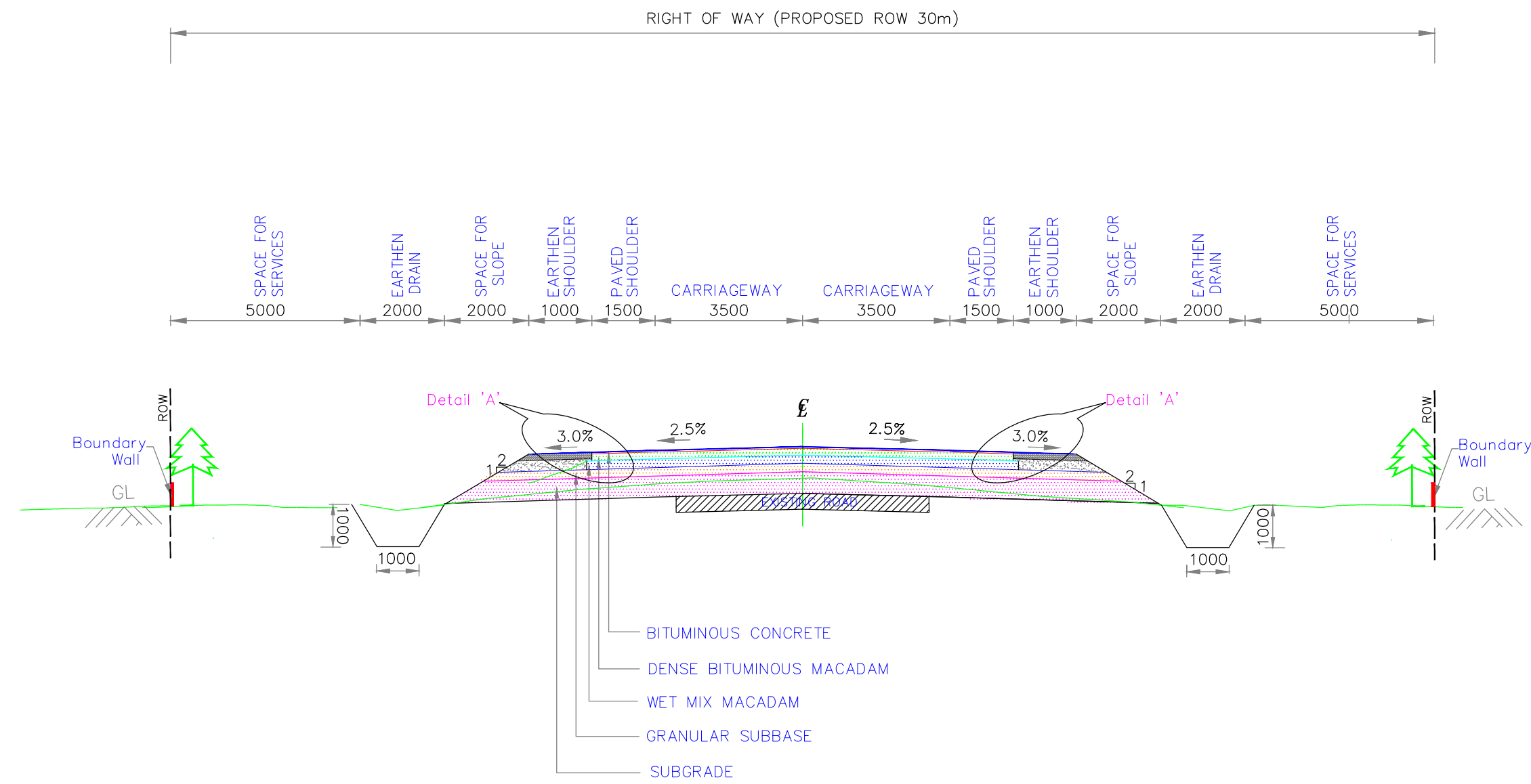
**CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT**



**(NH-351K)
SECTION : BAGASARA TO UNA
CH. 93/00 TO 102/284.768 KM**

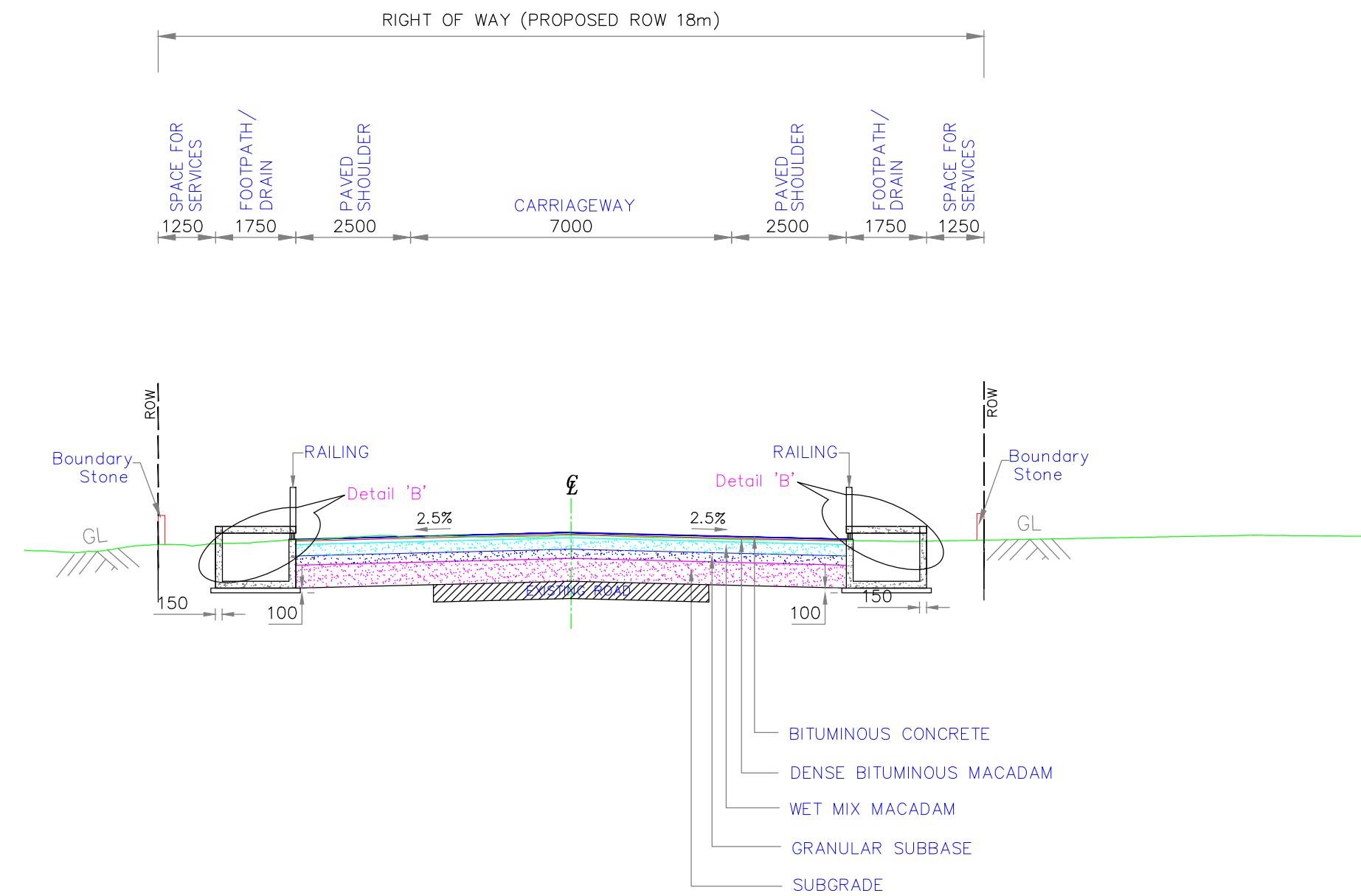
Plot Size : (A2 Size)

DRG.NO : BU-RM-04



TYPE – 1 : TYPICAL CROSS SECTION FOR TWO LANE IN NEW CONSTRUCTION SECTIONS (BYPASSES)

(REF– FIG.2.1–IRC: SP: 73–2018)



TYPE–2 : TYPICAL CROSS SECTION FOR TWO LANE IN BUILT UP SECTION

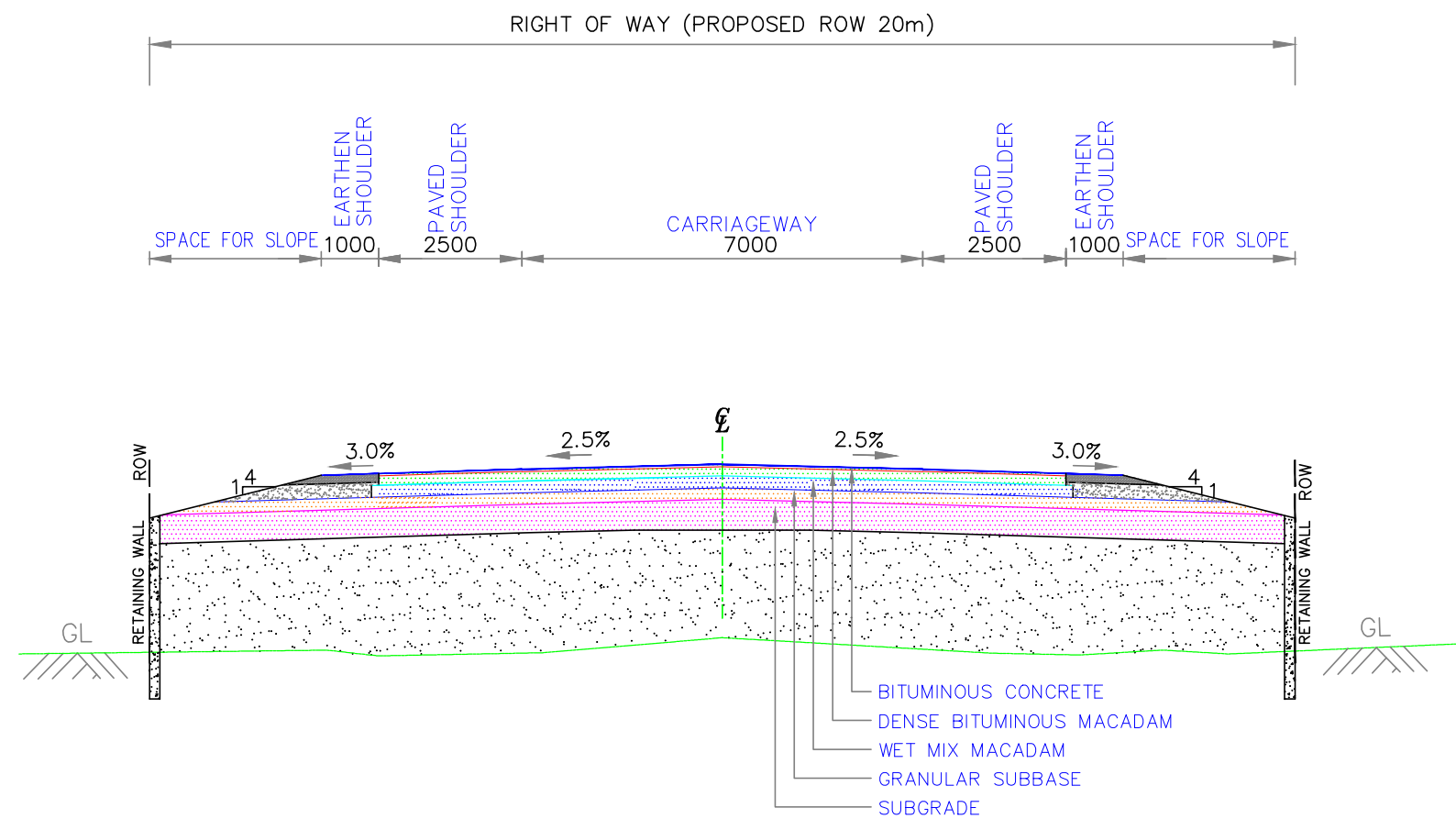
(REF– FIG.2.6–IRC: SP: 73–2018)

NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. IF NON BITUMINOUS LAYER IS TO BE PLACED ON THE TOP OF EXISTING ASPHALT PAVEMENT, THE PAVEMENT SHALL BE SCARIFIED.
4. MEDIAN FILL SHALL BE UP TO 25MM BELOW THE TOP OF THE KERB. REF: IRC:SP:50–1999.
5. FOR GRANULAR SUB–BASE THE MATERIAL TO BE USED SHOULD BE CLOSED GRADED FOR THE TOP LAYER AND COARSE GRADED FOR BOTTOM LAYER.
6. CHUTES SHOULD BE PROVIDED AT EVERY 10m INTERVAL WHERE EMBANKMENT HEIGHT IS BETWEEN IS MORE THAN 4m.
7. CHUTES WITH ENERGY DISSIPATION BASIN SHALL BE PROVIDED AT EVERY 10m INTERVAL WHERE THE EMBANKMENT HEIGHT IS MORE THAN 6m.
8. EMBANKMENT SLOPE SHOULD BE STONE PITCHED WHERE HEIGHT IS MORE THAN 4m.

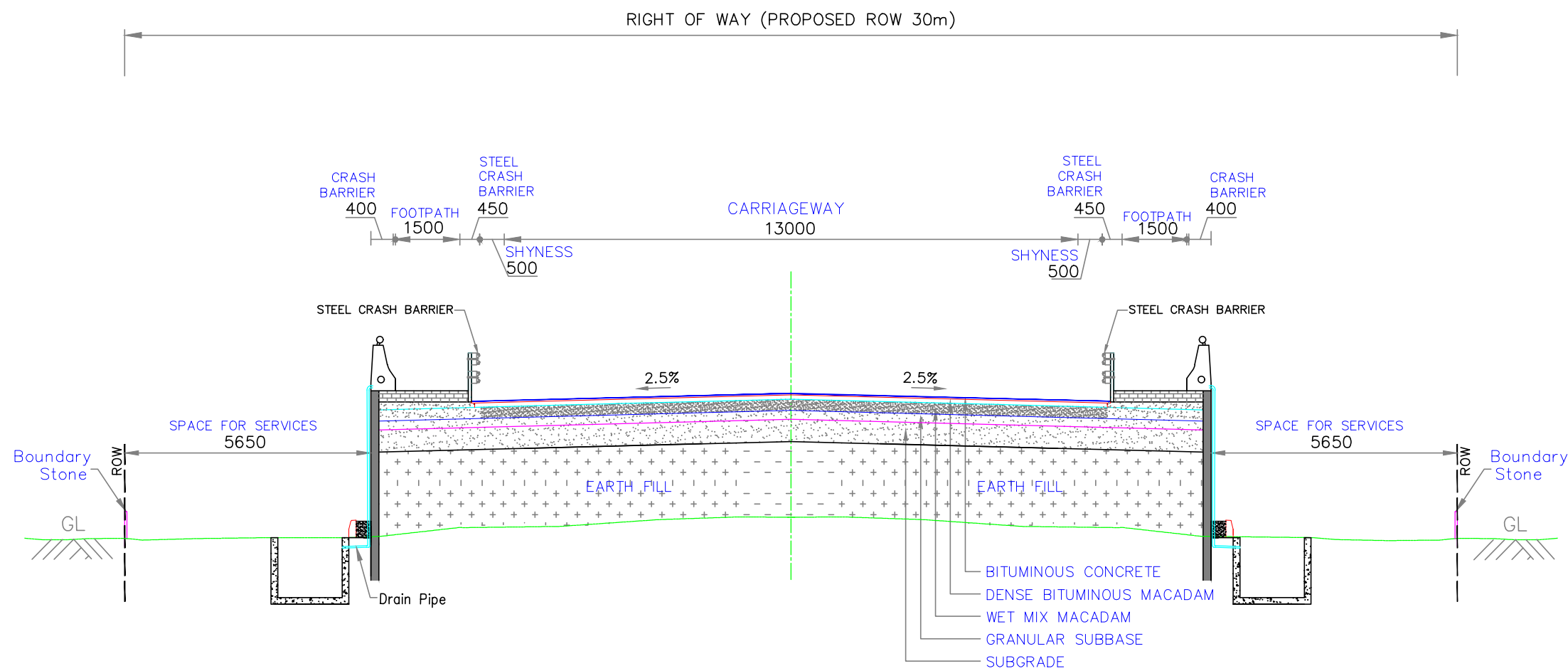
3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale	1:125
File name	BU–TCS–01 TO 06	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets	01 OF 06

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
	(NH-351K) SECTION : BAGASARA TO UNA TYPICAL CROSS SECTION
	Plot Size : (A2 Size) DRG.NO : BU–TCS–01



TYPE-3 : TYPICAL CROSS SECTION FOR APPROACHES FOR 2 LANE PLC STRUCTURE

(REF- FIG.7.10-IRC:SP: 73-2018)



(REF- RDSO/B-11775/R1-36m COMPOSITE STRUCTURE)

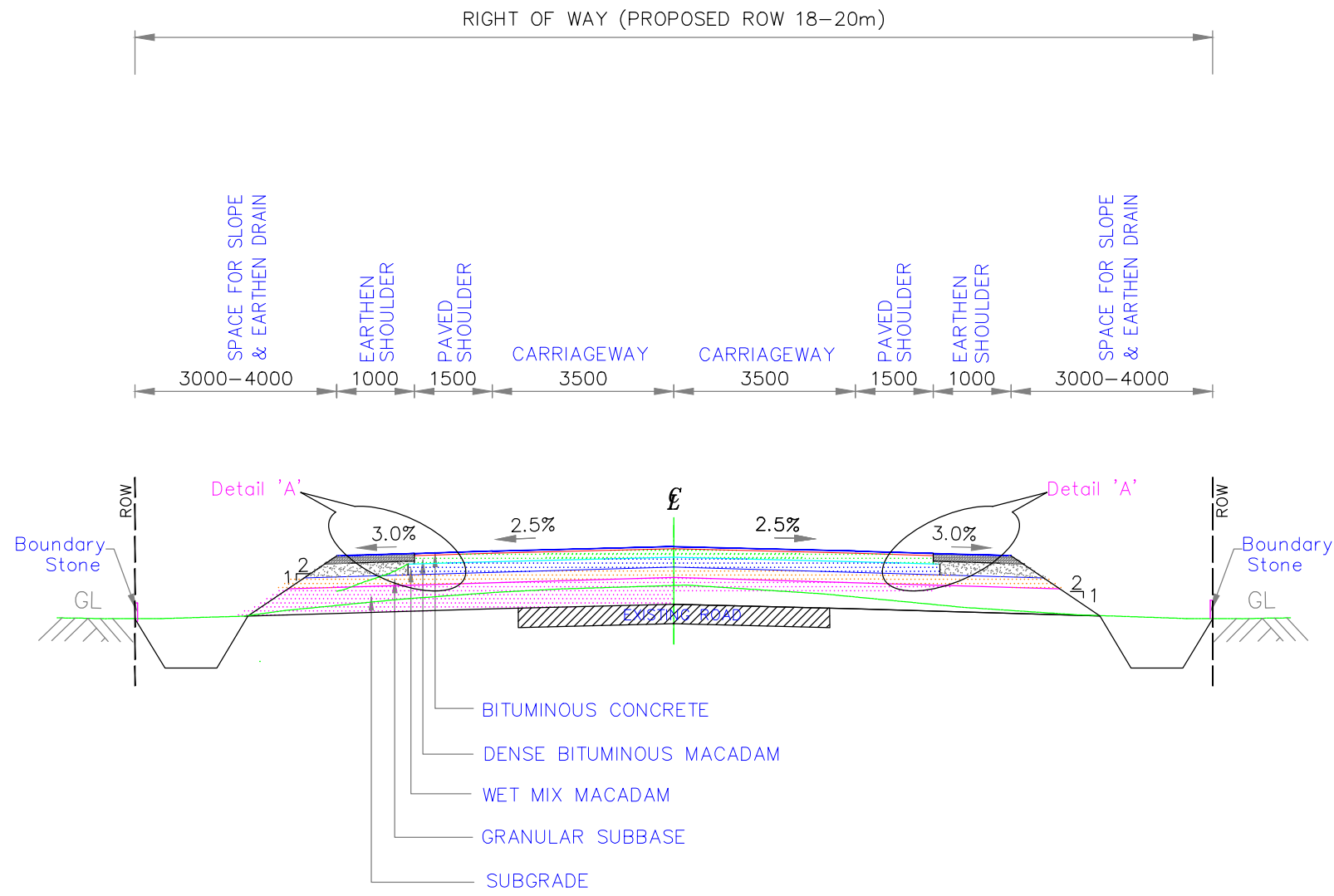
TYPE-4 : TYPICAL CROSS SECTION FOR APPROCHES OF ROAD OVER BRIDGE FOR TWO LANE HIGHWAY

NOTES

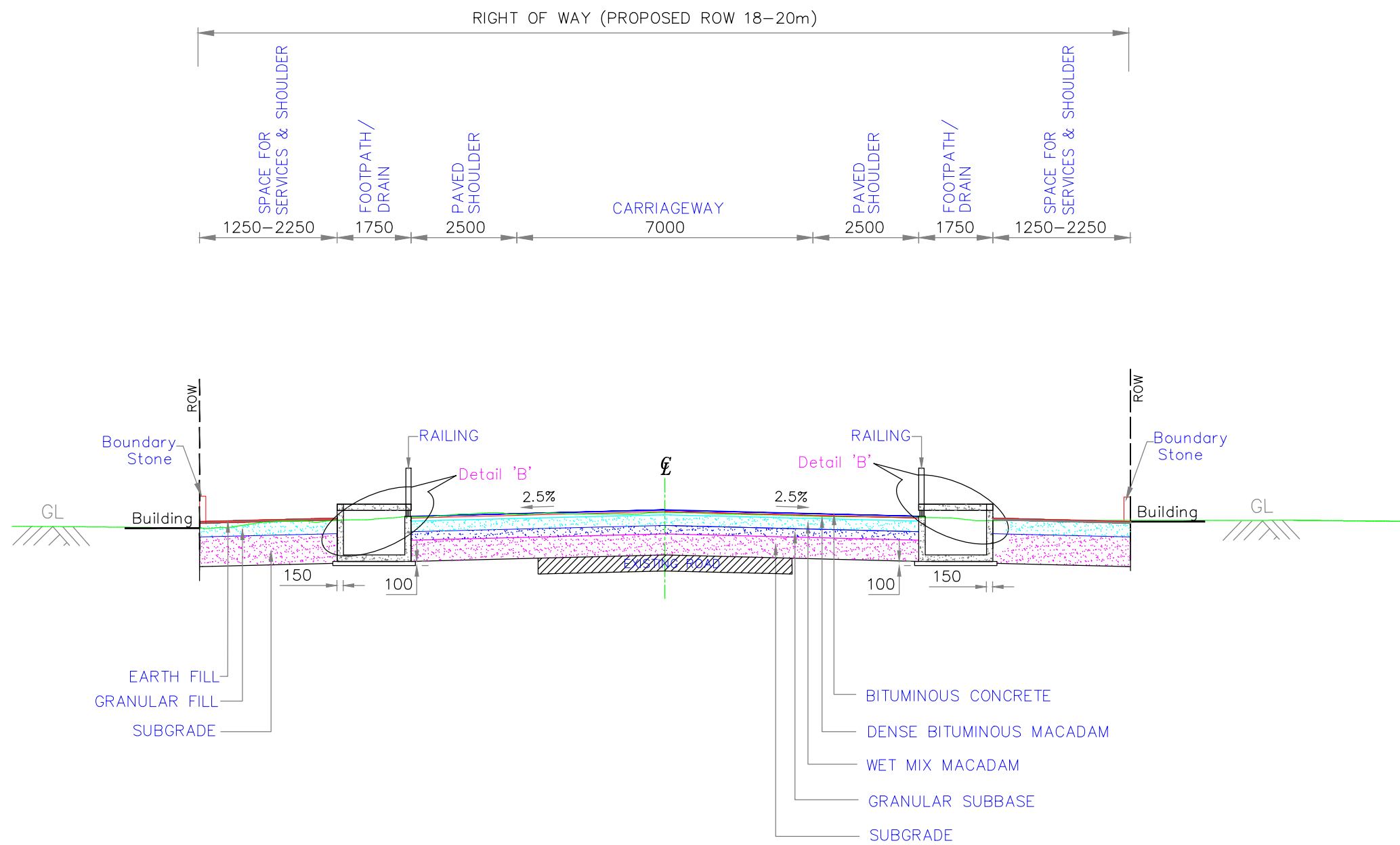
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. IF NON BITUMINOUS LAYER IS TO BE PLACED ON THE TOP OF EXISTING ASPHALT PAVEMENT, THE PAVEMENT SHALL BE SCARIFIED.
4. MEDIAN FILL SHALL BE UP TO 25MM BELOW THE TOP OF THE KERB. REF: IRC:SP:50-1999.
5. FOR GRANULAR SUB-BASE THE MATERIAL TO BE USED SHOULD BE CLOSED GRADED FOR THE TOP LAYER AND COARSE GRADED FOR BOTTOM LAYER.
6. CHUTES SHOULD BE PROVIDED AT EVERY 10m INTERVAL WHERE EMBANKMENT HEIGHT IS BETWEEN IS MORE THAN 4m.
7. CHUTES WITH ENERGY DISSIPATION BASIN SHALL BE PROVIDED AT EVERY 10m INTERVAL WHERE THE EMBANKMENT HEIGHT IS MORE THAN 6m.
8. EMBANKMENT SLOPE SHOULD BE STONE PITCHED WHERE HEIGHT IS MORE THAN 4m.

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale	1:125
File name	BU-TCS-01 TO 06	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets	02 OF 06

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
	(NH-351K) SECTION : BAGASARA TO UNA TYPICAL CROSS SECTION
	Plot Size : (A2 Size) DRG.NO : BU-TCS-02



TYPE – 5 : TYPICAL CROSS SECTION FOR TWO LANE IN RECONSTRUCTION SECTIONS
(REF– FIG.2.1–IRC: SP: 73–2018)



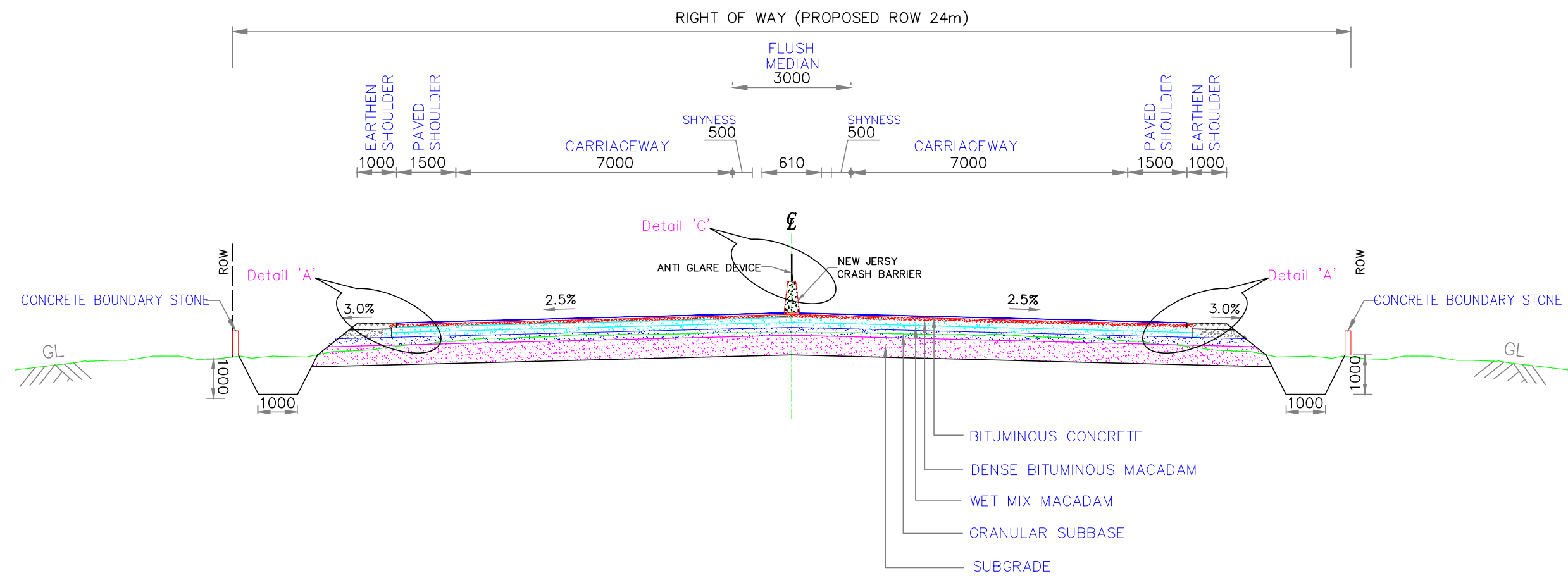
TYPE-6 : TYPICAL CROSS SECTION FOR TWO LANE IN BUILT UP SECTION
(REF– FIG.2.6–IRC: SP: 73–2018)

NOTES

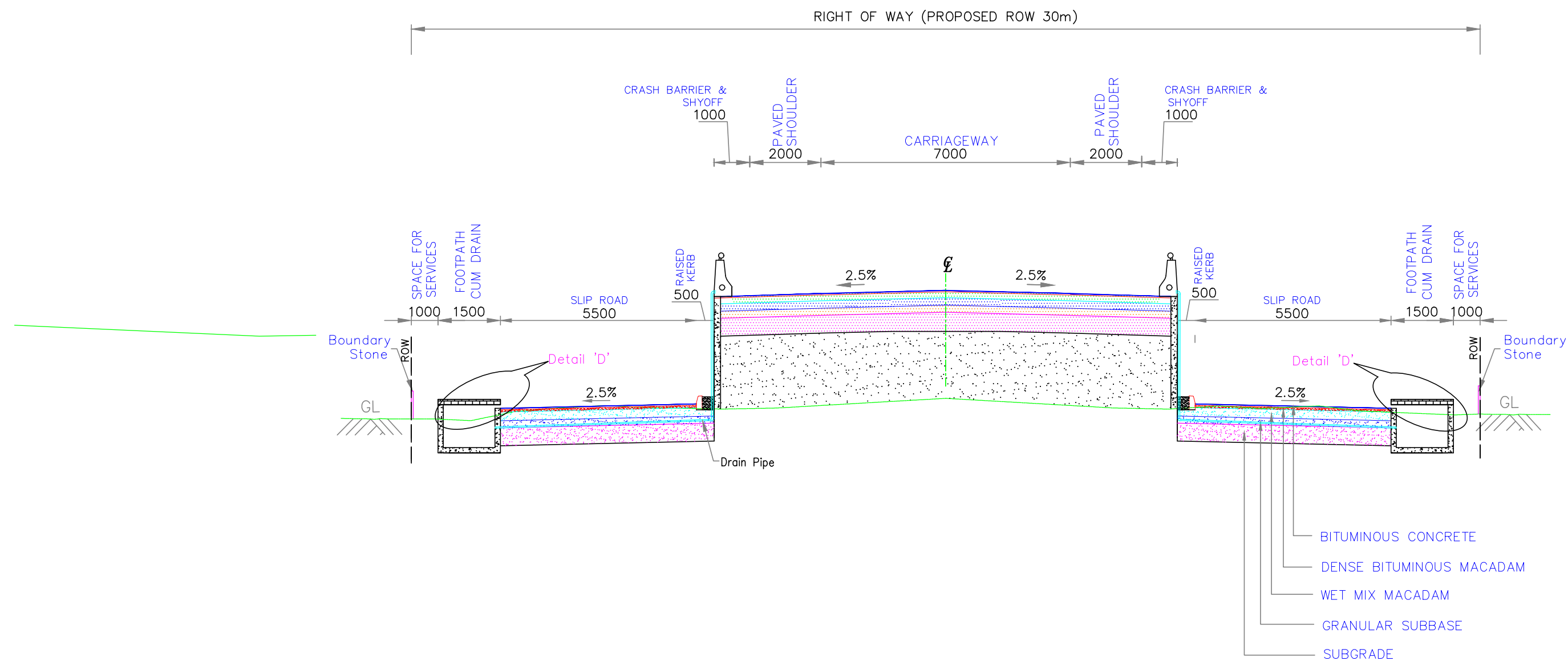
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. IF NON BITUMINOUS LAYER IS TO BE PLACED ON THE TOP OF EXISTING ASPHALT PAVEMENT, THE PAVEMENT SHALL BE SCARIFIED.
4. MEDIAN FILL SHALL BE UP TO 25MM BELOW THE TOP OF THE KERB. REF: IRC:SP:50–1999.
5. FOR GRANULAR SUB–BASE THE MATERIAL TO BE USED SHOULD BE CLOSED GRADED FOR THE TOP LAYER AND COARSE GRADED FOR BOTTOM LAYER.
6. CHUTES SHOULD BE PROVIDED AT EVERY 10m INTERVAL WHERE EMBANKMENT HEIGHT IS BETWEEN IS MORE THAN 4m.
7. CHUTES WITH ENERGY DISSIPATION BASIN SHALL BE PROVIDED AT EVERY 10m INTERVAL WHERE THE EMBANKMENT HEIGHT IS MORE THAN 6m.
8. EMBANKMENT SLOPE SHOULD BE STONE PITCHED WHERE HEIGHT IS MORE THAN 4m.

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale 1:125	
File name	BU–TCS–01 TO 06	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 03 OF 06	

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVASHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
	(NH-351K) SECTION : BAGASARA TO UNA TYPICAL CROSS SECTION
	Plot Size : (A2 Size) DRG.NO : BU–TCS–03



TYPE-7 TYPICAL CROSS SECTION FOR RECONSTRUCTION SECTION (EXISTING SECTION)
(REF.-IRC: SP: 84-2019)



TYPE-8 : TYPICAL CROSS SECTION FOR APPROACHES FOR 2 LANE GRADE SEPARATED STRUCTURES
(REF- FIG.7.10-IRC: SP: 73-2018)

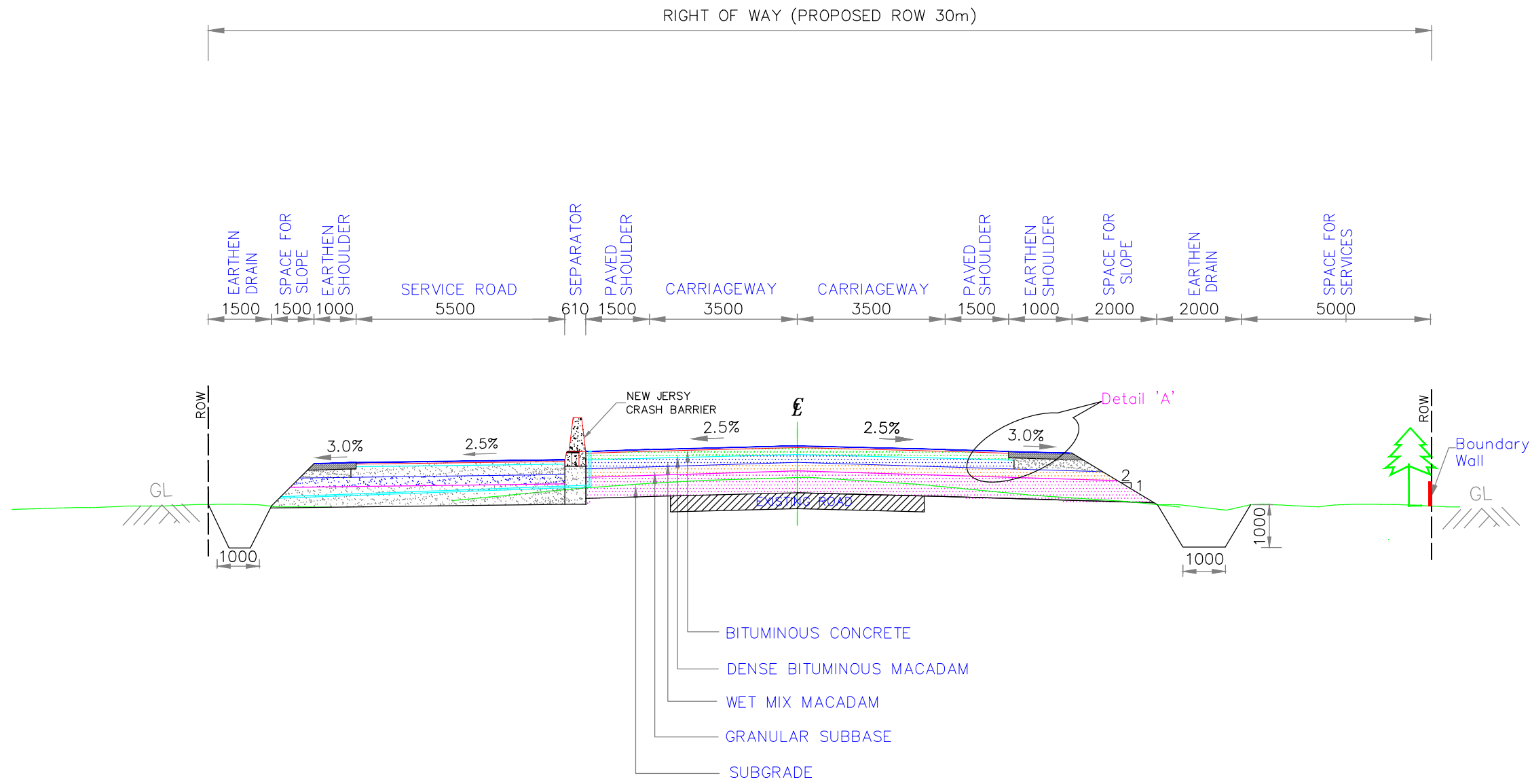
NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. IF NON BITUMINOUS LAYER IS TO BE PLACED ON THE TOP OF EXISTING ASPHALT PAVEMENT, THE PAVEMENT SHALL BE SCARIFIED.
4. MEDIAN FILL SHALL BE UP TO 25MM BELOW THE TOP OF THE KERB. REF: IRC:SP:50-1999.
5. FOR GRANULAR SUB-BASE THE MATERIAL TO BE USED SHOULD BE CLOSED GRADED FOR THE TOP LAYER AND COARSE GRADED FOR BOTTOM LAYER.
6. CHUTES SHOULD BE PROVIDED AT EVERY 10m INTERVAL WHERE EMBANKMENT HEIGHT IS BETWEEN IS MORE THAN 4m.
7. CHUTES WITH ENERGY DISSIPATION BASIN SHALL BE PROVIDED AT EVERY 10m INTERVAL WHERE THE EMBANKMENT HEIGHT IS MORE THAN 6m.
8. EMBANKMENT SLOPE SHOULD BE STONE PITCHED WHERE HEIGHT IS MORE THAN 4m.

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale	1:125
File name	BU-TCS-01 TO 06	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets	04 OF 06

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
	(NH-351K) SECTION : BAGASARA TO UNA TYPICAL CROSS SECTION
	Plot Size : (A2 Size) DRG.NO : BU-TCS-04





TYPE – 9 : TYPICAL CROSS SECTION FOR TWO LANE WITH SERVICE ROAD ON LHS (DHARI BYPASSES)

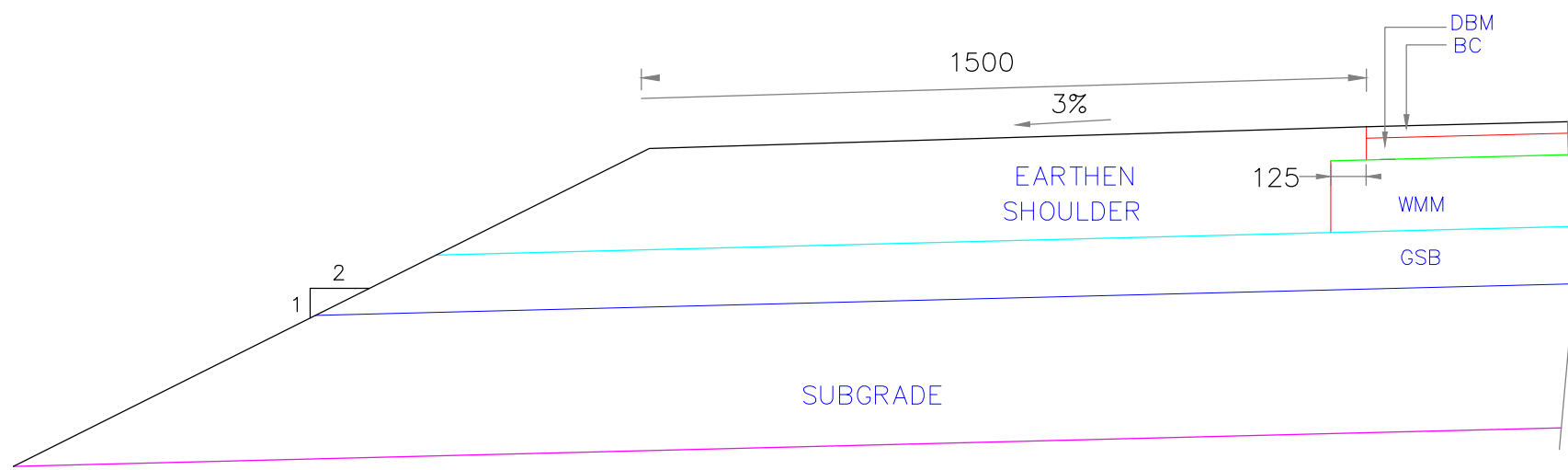
(REF– FIG.2.1–IRC:SP: 73–2018)

NOTES

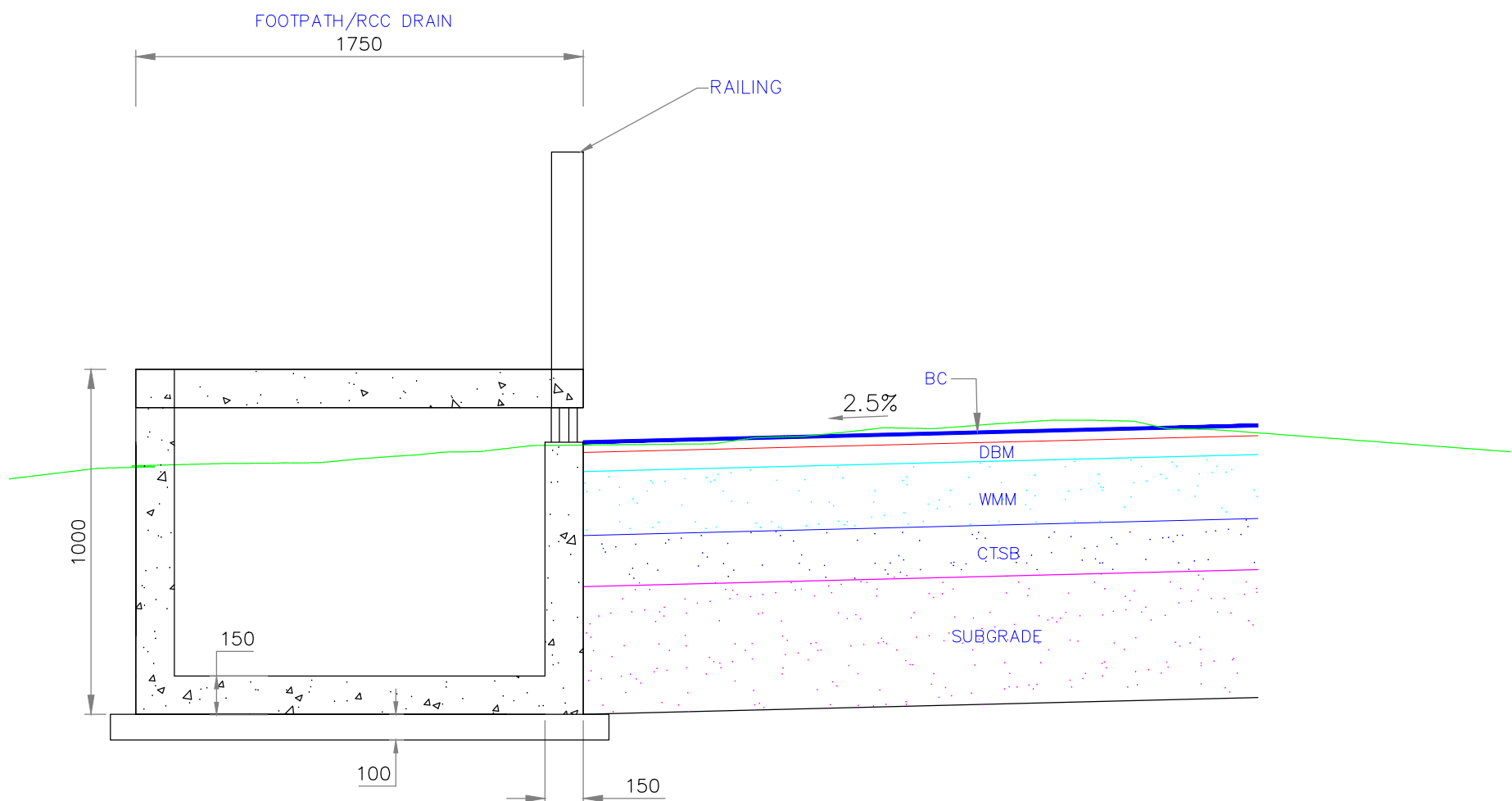
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. IF NON BITUMINOUS LAYER IS TO BE PLACED ON THE TOP OF EXISTING ASPHALT PAVEMENT, THE PAVEMENT SHALL BE SCARIFIED.
4. MEDIAN FILL SHALL BE UP TO 25MM BELOW THE TOP OF THE KERB. REF: IRC:SP:50–1999.
5. FOR GRANULAR SUB–BASE THE MATERIAL TO BE USED SHOULD BE CLOSED GRADED FOR THE TOP LAYER AND COARSE GRADED FOR BOTTOM LAYER.
6. CHUTES SHOULD BE PROVIDED AT EVERY 10m INTERVAL WHERE EMBANKMENT HEIGHT IS BETWEEN IS MORE THAN 4m.
7. CHUTES WITH ENERGY DISSIPATION BASIN SHALL BE PROVIDED AT EVERY 10m INTERVAL WHERE THE EMBANKMENT HEIGHT IS MORE THAN 6m.
8. EMBANKMENT SLOPE SHOULD BE STONE PICTHED WHERE HEIGHT IS MORE THAN 4m.

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale 1:125	
File name	BU–TCS–01 TO 06	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 05 OF 06	

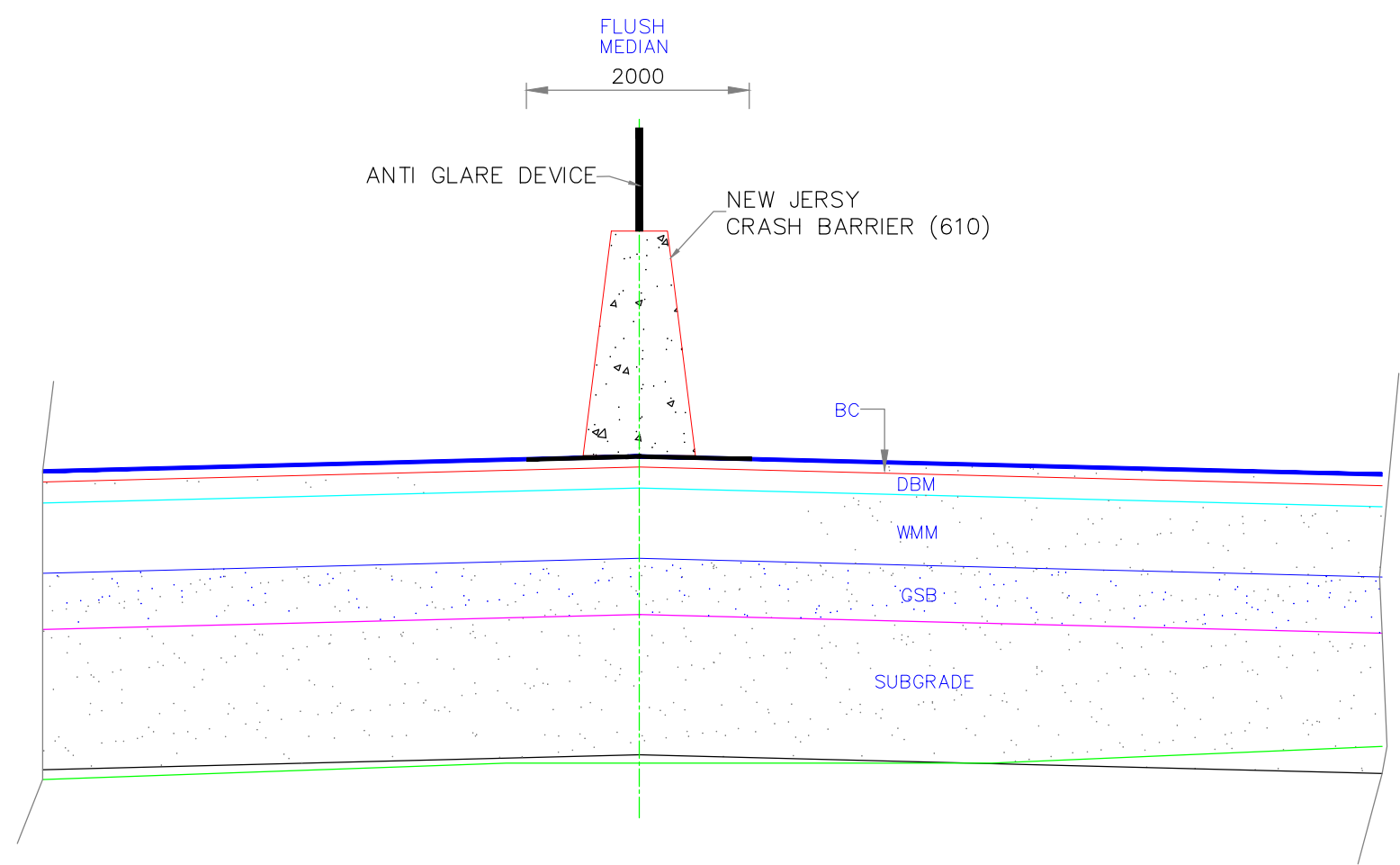
CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
 (NH-351K) SECTION : BAGASARA TO UNA TYPICAL CROSS SECTION	
Plot Size : (A2 Size)	DRG.NO : BU–TCS–05



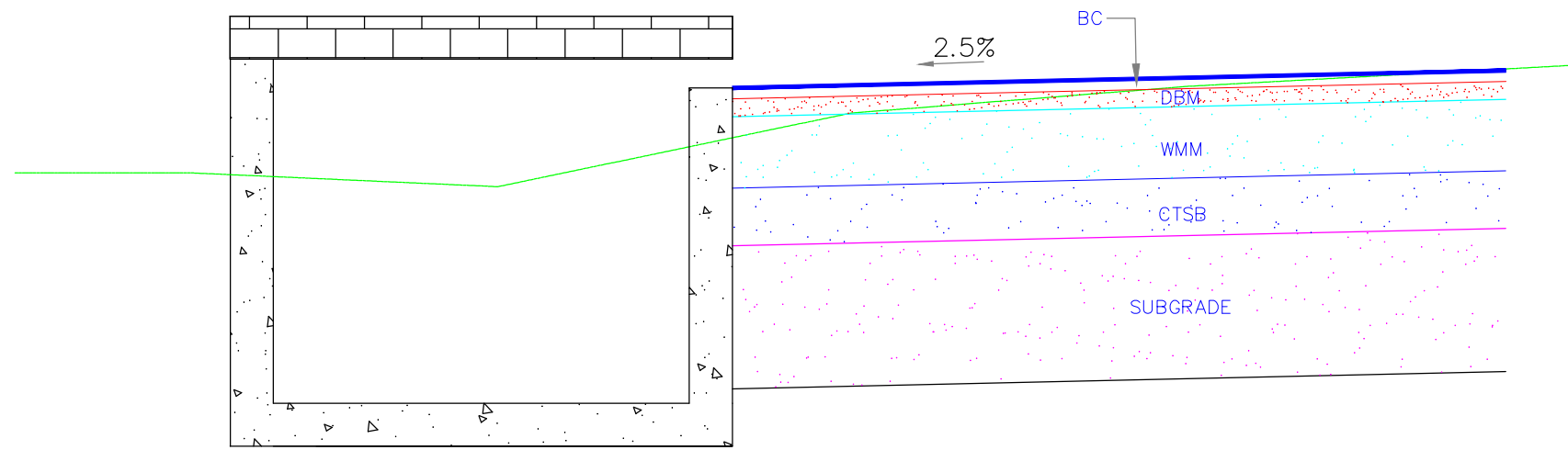
Detail 'A'
Scale 1:25



Detail 'B'
Scale 1:25



Detail 'C'
Scale 1:25



Detail 'D'
Scale 1:25

NOTES

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- IF NON BITUMINOUS LAYER IS TO BE PLACED ON THE TOP OF EXISTING ASPHALT PAVEMENT, THE PAVEMENT SHALL BE SCARIFIED.
- MEDIAN FILL SHALL BE UP TO 25MM BELOW THE TOP OF THE KERB. REF: IRC:SP:50-1999.
- FOR GRANULAR SUB-BASE THE MATERIAL TO BE USED SHOULD BE CLOSED GRADED FOR THE TOP LAYER AND COARSE GRADED FOR BOTTOM LAYER.
- CHUTES SHOULD BE PROVIDED AT EVERY 10m INTERVAL WHERE EMBANKMENT HEIGHT IS BETWEEN IS MORE THAN 4m.
- CHUTES WITH ENERGY DISSIPATION BASIN SHALL BE PROVIDED AT EVERY 10m INTERVAL WHERE THE EMBANKMENT HEIGHT IS MORE THAN 6m.
- EMBANKMENT SLOPE SHOULD BE STONE PITCHED WHERE HEIGHT IS MORE THAN 4m.

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale 1:125	
File name	BU-TCS-01 TO 06	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 06 OF 06	

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
	(NH-351K) SECTION : BAGASARA TO UNA DETAILS OF TYPICAL CROSS SECTION
	Plot Size : (A2 Size) DRG.NO : BU-TCS-06

NOTES

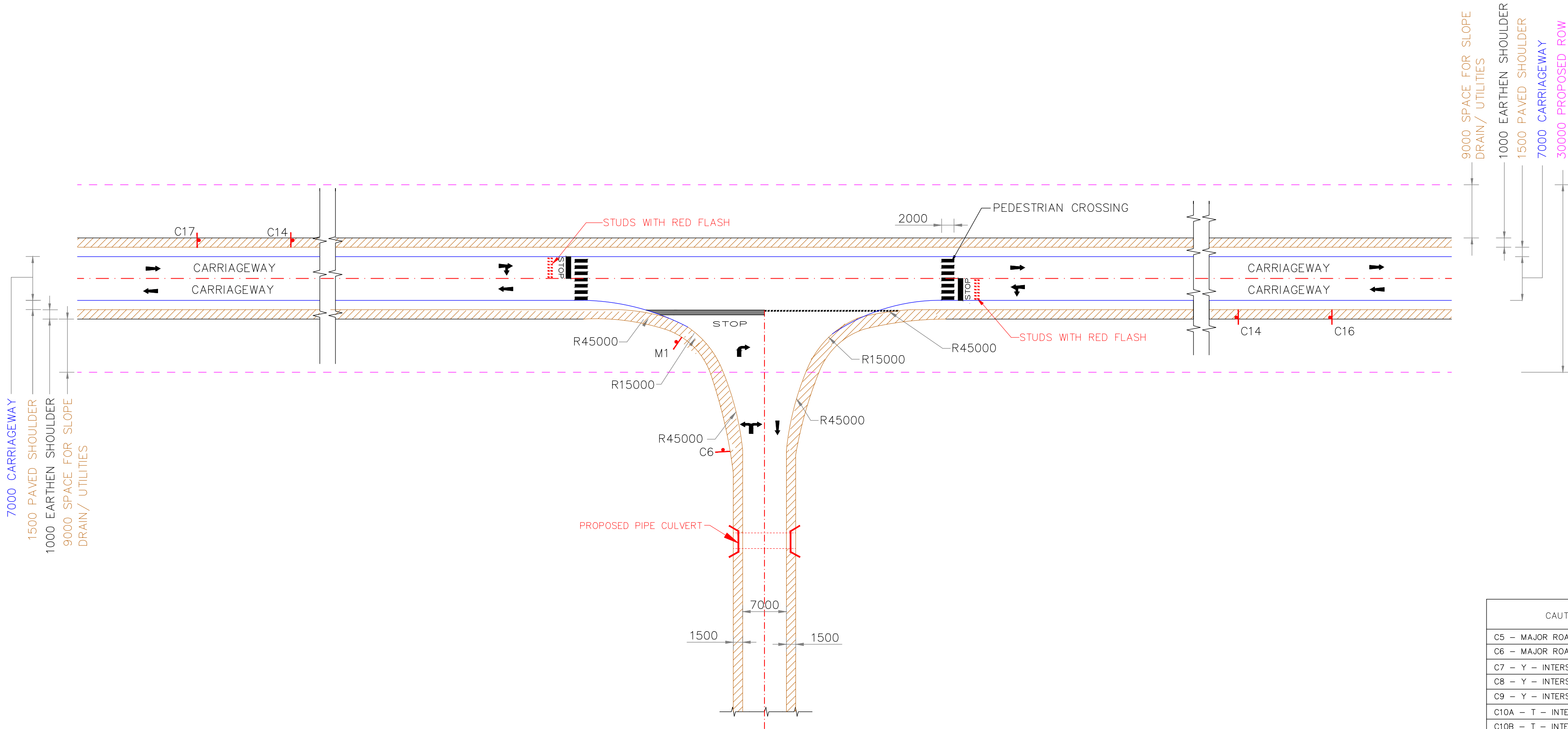
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- ALL ROAD SIGNS SHOULD BE ERECTED AS PER IRC 67.
- PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE FROM IRC 35.
- KERBS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPES OF 50CM WIDTH.
- DIRECTIONAL ISLAND AND MEDIAN SHOULD BE COVER WITH CHEQUERED TILES OVER M15 PCC (100mm THK.) TO ENSURE CLEAR VISIBILITY.
- CARE SHOULD BE TAKEN FOR PROPER DRAINAGE OF SURFACE RUN-OFF FROM INTERSECTIONS.
- ALL EXISTING UTILITIES FALLING WITHIN PROPOSED ROW SHALL BE SHIFTED TO PROPOSED UTILITY CORRIDOR OR AS DIRECTED BY THE ENGINEER.

PROPOSED LEGEND	
	PROPOSED CARRIAGEWAY
	PROPOSED PAVED SHOULDER
	PROPOSED CENTERLINE
	PROPOSED EARTHEN SHOULDER
	PROPOSED ROW

T-JUNCTION MINOR (NH-351K)			
SL. No.	Chainage (Ch)	Destination	Side
1	5.700	Samadhiyala	Right
2	15.420	Kagadadi	Right
3	36.050	Rompur	Left
4	42.770	Ghadiya	Right
5	42.800	Vadaliya	Left
6	46.650	Anida	Left
7	71.180	Hanumanpur	Left
8	75.865	Hanumanpur	Left
9	79.022	Daldi	Left
10	79.830	Salava	Left
11	85.650	Motisar	Right
12	91.750	Mohobatar	Left
13	93.290	Ambada	Right
14	93.605	Vajdi	Right
15	95.165	Vajdi	Right
16	96.860	Bhadiyadar	Right
17	101.300	Vavarda	Left

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV	
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV	
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV	
0	05.09.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV	
No	DATE	REVISIONS		BY	CHKD	APPD
Date		Drawn by	Checked by	Scale		
21.11.2023		PATRICK	SRIKANTH	1:500		
File name		Designed by	Approved by	Sheets		
BU-R-21		SURYA KIRAN	SHIVAPRASAD	1 OF 1		

CLIENT	NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
	(NH-351K) SECTION : BAGASARA TO UNA T-INTERSECTION - MINOR
	Plot Size : (A2 Size) DRG.NO : BU-R-21



CAUTIONARY SIGNS	
C5	MAJOR ROAD AHEAD CROSSING
C6	MAJOR ROAD AHEAD
C7	Y - INTERSECTION LEFT
C8	Y - INTERSECTION RIGHT
C9	Y - INTERSECTION
C10A	T - INTERSECTION LEFT
C10B	T - INTERSECTION RIGHT
C11	STAGGERED INTERSECTION
C12	STAGGERED INTERSECTION
C14	PEDESTRIAN CROSSING
C16	SIDE ROAD LEFT
C17	SIDE ROAD RIGHT
C18	CROSS ROAD
C20	CLUSTER OF RED REFLECTORS
MANDATORY SIGNS	
M1	STOP
M2	GIVE WAY
M3	ONE WAY SIGNS
M8	KEEP LEFT
M9	AHEAD ONLY
M10	TURN LEFT
M11	TURN RIGHT
M12	TURN RIGHT AHEAD

IFDPR

NOTES

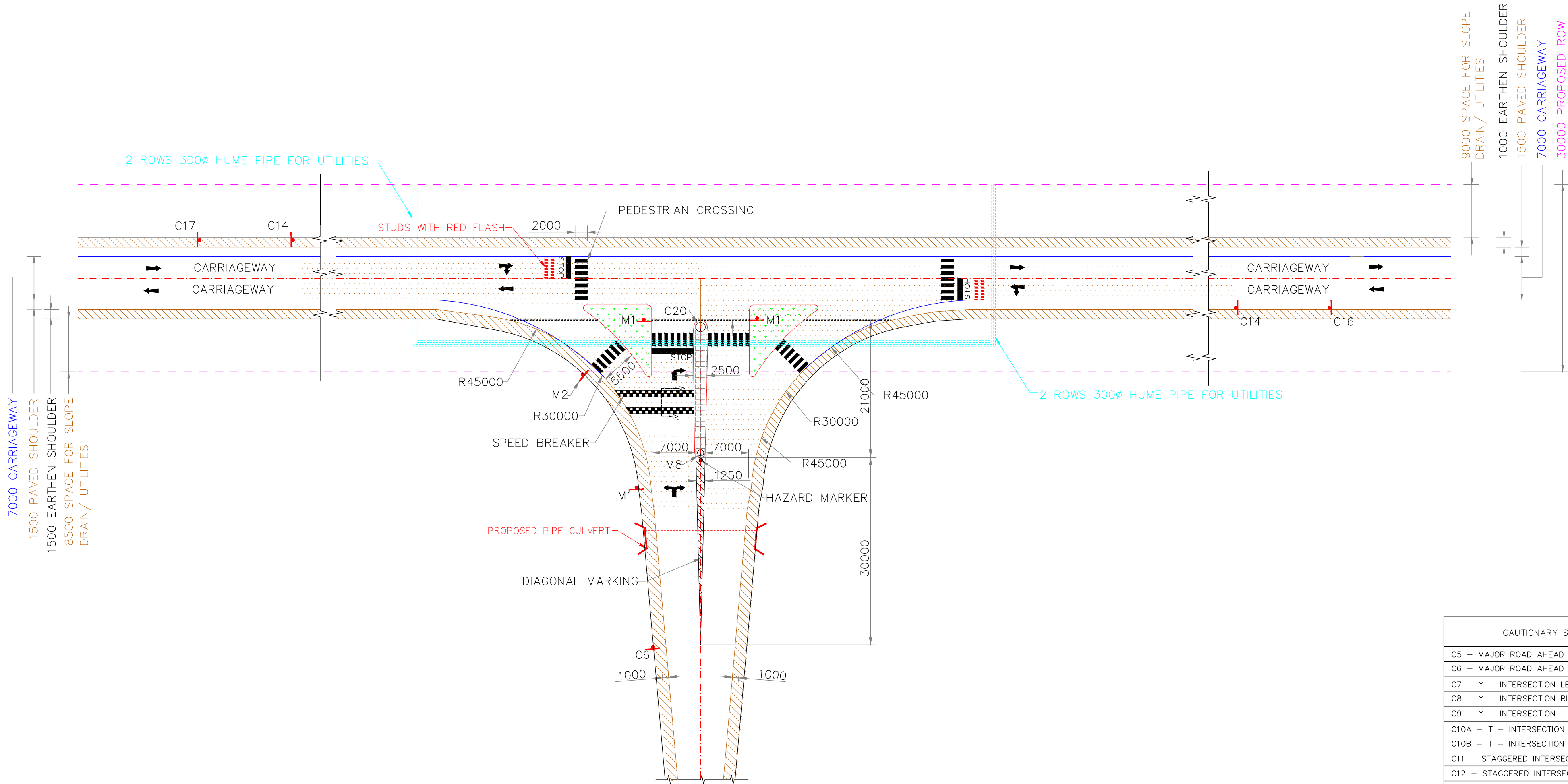
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- THE DESIGN IS SUITABLE FOR THE INTERSECTION OF A FOUR-LANE DIVIDED CARRIAGE WAY NATIONAL HIGHWAY WITH A MAJOR DISTRICT ROAD/IMPORTANT ROADS.
- PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE FROM IRC 35.
- KERBS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPES OF 50CM WIDTH.
- DIRECTIONAL ISLAND, MEDIAN AT STORAGE LANE AND TAPER LANE SHOULD BE COVERED WITH CHEQUEURED TILES OVER M15 PCC (100mm THK.) TO ENSURE CLEAR VISIBILITY.
- CARE SHOULD BE TAKEN FOR PROPER DRAINAGE OF SURFACE RUN-OFF FROM INTERSECTIONS.

PROPOSED LEGEND					
	PROPOSED CARRIAGEWAY				
	PROPOSED PAVED SHOULDER				
	PROPOSED CENTERLINE				
	PROPOSED EARTHEN SHOULDER				
	PROPOSED ROW				

T-JUNCTION MAJOR (NH-351K)					
SL. No.	Chainage (Ch)	Destination		Side	
		Left	Right		
1	1.045	Bagasara	Mota Bhandariya	Both	
2	48.732	Amreli	Khamba	Both	
3	61.732	Nagashree	Ingrola	Both	
4	85.950	Samter		Left	
5	102.284	Samter	Kodinar	Both	

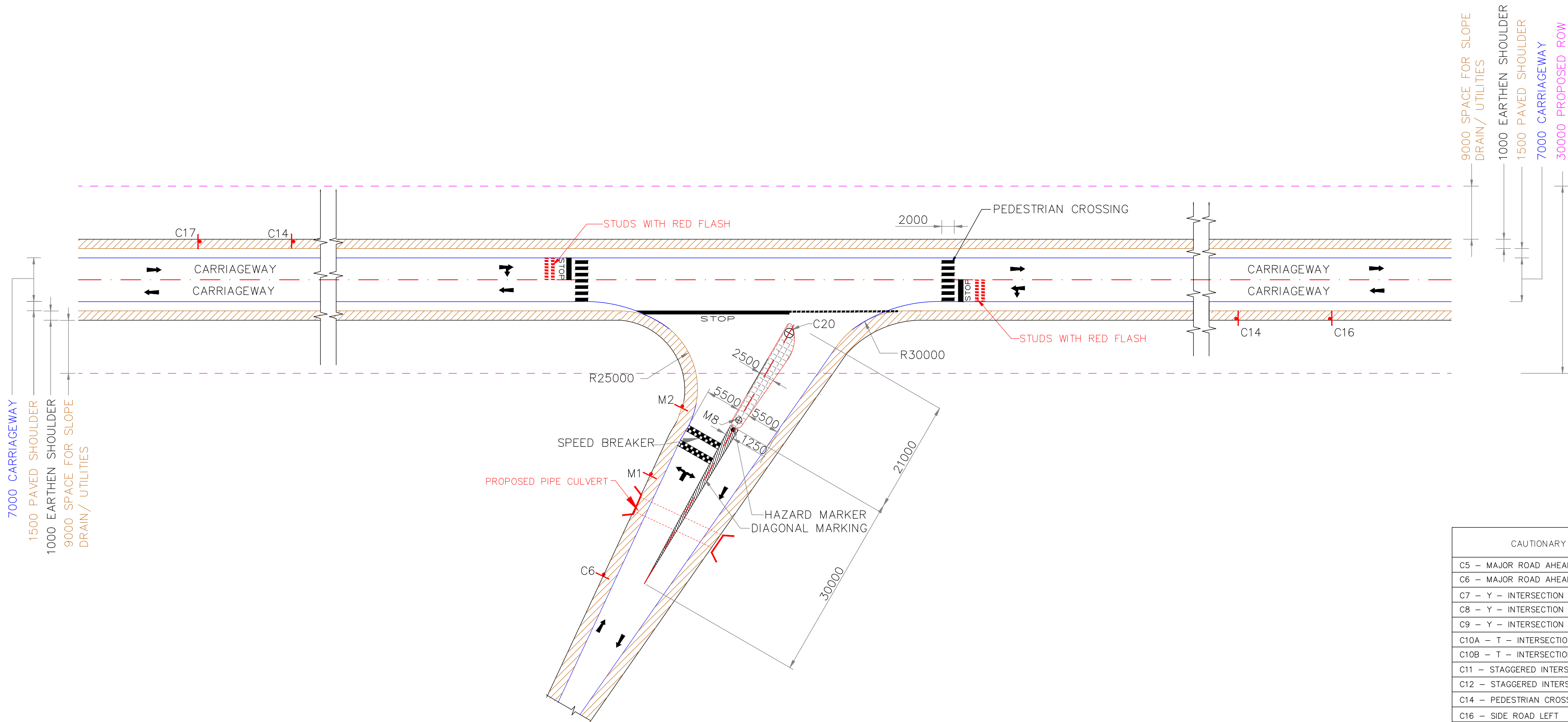
3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV
0	05.09.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV
No		DATE		REVISIONS	
Date		BY		CHKD	
21.11.2023		PATRICK		SRIKANTH	
File name		Designed by		Approved by	
BU-R-22		SURYA KIRAN		SHIVAPRASAD	
				Scale	
				1:500	
				Sheets	
				1 OF 1	

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
	(NH-351K) SECTION : BAGASARA TO UNA T-INTERSECTION - MAJOR
Plot Size : ((620Size)50) DRG.NO : BU-R-22	



CAUTIONARY SIGNS	
C5	MAJOR ROAD AHEAD CROSSING
C6	MAJOR ROAD AHEAD
C7	Y - INTERSECTION LEFT
C8	Y - INTERSECTION RIGHT
C9	Y - INTERSECTION
C10A	T - INTERSECTION LEFT
C10B	T - INTERSECTION RIGHT
C11	STAGGERED INTERSECTION
C12	STAGGERED INTERSECTION
C14	PEDESTRIAN CROSSING
C16	SIDE ROAD LEFT
C17	SIDE ROAD RIGHT
C18	CROSS ROAD
C20	CLUSTER OF RED REFLECTORS
MANDATORY SIGNS	
M1	STOP
M2	GIVE WAY
M3	ONE WAY SIGNS
M8	KEEP LEFT
M9	AHEAD ONLY
M10	TURN LEFT
M11	TURN RIGHT
M12	TURN RIGHT AHEAD

FDPR



NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
2. DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. THE DESIGN IS SUITABLE FOR THE INTERSECTION OF A FOUR-LANE DIVIDED CARRIAGE WAY NATIONAL HIGHWAY WITH A VILLAGE ROAD.
4. PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE FROM IRC 35.
5. KERBS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPES OF 50CM WIDTH.
6. DIRECTIONAL ISLAND, MEDIAN AT STORAGE LANE AND TAPER LANE SHOULD BE COVERED WITH CHEQUEURED TILES OVER M15 PCC (100mm THK.) TO ENSURE CLEAR VISIBILITY.
7. CARE SHOULD BE TAKEN FOR PROPER DRAINAGE OF SURFACE RUN-OFF FROM INTERSECTIONS.

PROPOSED LEGEND	
—	PROPOSED CARRIAGEWAY
—	PROPOSED PAVED SHOULDER
—	PROPOSED CENTERLINE
—	PROPOSED EARTHEN SHOULDER
- - -	PROPOSED ROW

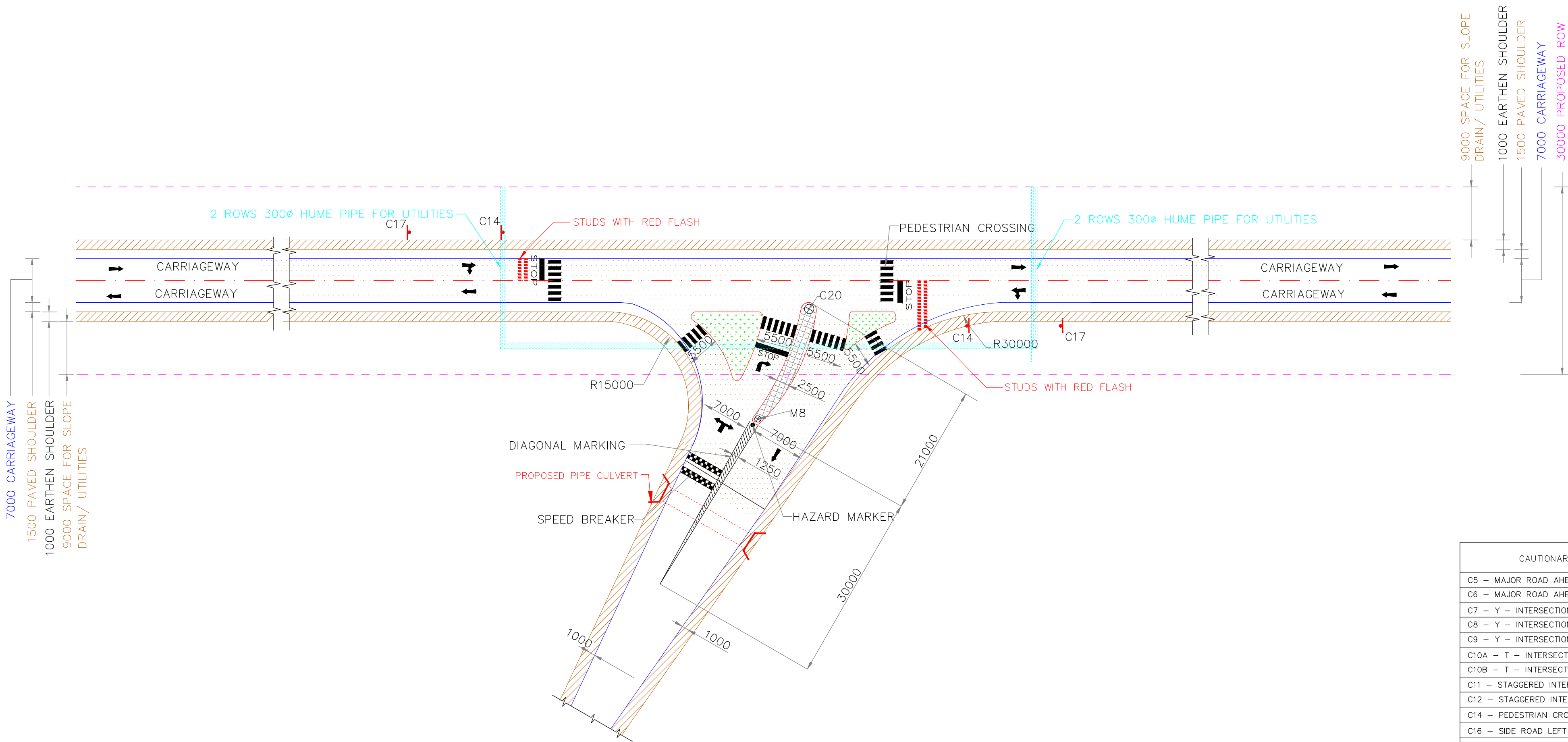
Y-JUNCTION MINOR (NH-351K)			
SL No.	Chainage (Ch)	Destination	Side
1	2.850	Bagasara City	Right
2	7.650	Hamapur	Right
3	13.300	Hamapur	Right
4	17.600	Bharad	Left
5	19.900	Prempara	Left
6	32.200	Khisa	Left
7	72.525	HanumanGala	Right
8	74.180	Chakarva	Right
9	82.280	Sonariya	Right
10	88.720	Dhokadva	Right
11	91.450	Dhokadva	Right

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, NORTH on 08.01.25 & 13.01.25	JTP	SM	SNV
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV
0	05.09.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV
No	DATE	REVISIONS		BY	CHKD APPD
Date		Drawn by	Checked by	Scale	
21.11.2023		PATRICK	SRIKANTH	1:500	
File name		Designed by	Approved by	Sheets	
BU-R-23		SURYA KIRAN	SHIVAPRASAD	1 OF 1	

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT
	(NH-351K) SECTION : BAGASARA TO UNA Y-INTERSECTION - MINOR
	Plot Size : (A2 Size) DRG.NO : BU-R-23

CAUTIONARY SIGNS	
C5	MAJOR ROAD AHEAD CROSSING
C6	MAJOR ROAD AHEAD
C7	Y - INTERSECTION LEFT
C8	Y - INTERSECTION RIGHT
C9	Y - INTERSECTION
C10A	T - INTERSECTION LEFT
C10B	T - INTERSECTION RIGHT
C11	STAGGERED INTERSECTION
C12	STAGGERED INTERSECTION
C14	PEDESTRIAN CROSSING
C16	SIDE ROAD LEFT
C17	SIDE ROAD RIGHT
C18	CROSS ROAD
C20	CLUSTER OF RED REFLECTORS
MANDATORY SIGNS	
M1	STOP
M2	GIVE WAY
M3	ONE WAY SIGNS
M8	KEEP LEFT
M9	AHEAD ONLY
M10	TURN LEFT
M11	TURN RIGHT
M12	TURN RIGHT AHEAD

FDPR



NOTES

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- THE DESIGN IS SUITABLE FOR THE INTERSECTION OF A FOUR-LANE DIVIDED CARRIAGE WAY NATIONAL HIGHWAY WITH A MAJOR DISTRICT ROAD/IMPORTANT ROADS.
- PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE FROM IRC 35.
- KERBS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPES OF 50CM WIDTH.
- DIRECTIONAL ISLAND, MEDIAN AT STORAGE LANE AND TAPER LANE SHOULD BE COVERED WITH CHEQUEURED TILES OVER M15 PCC (100mm THK.) TO ENSURE CLEAR VISIBILITY.
- CARE SHOULD BE TAKEN FOR PROPER DRAINAGE OF SURFACE RUN-OFF FROM INTERSECTIONS.

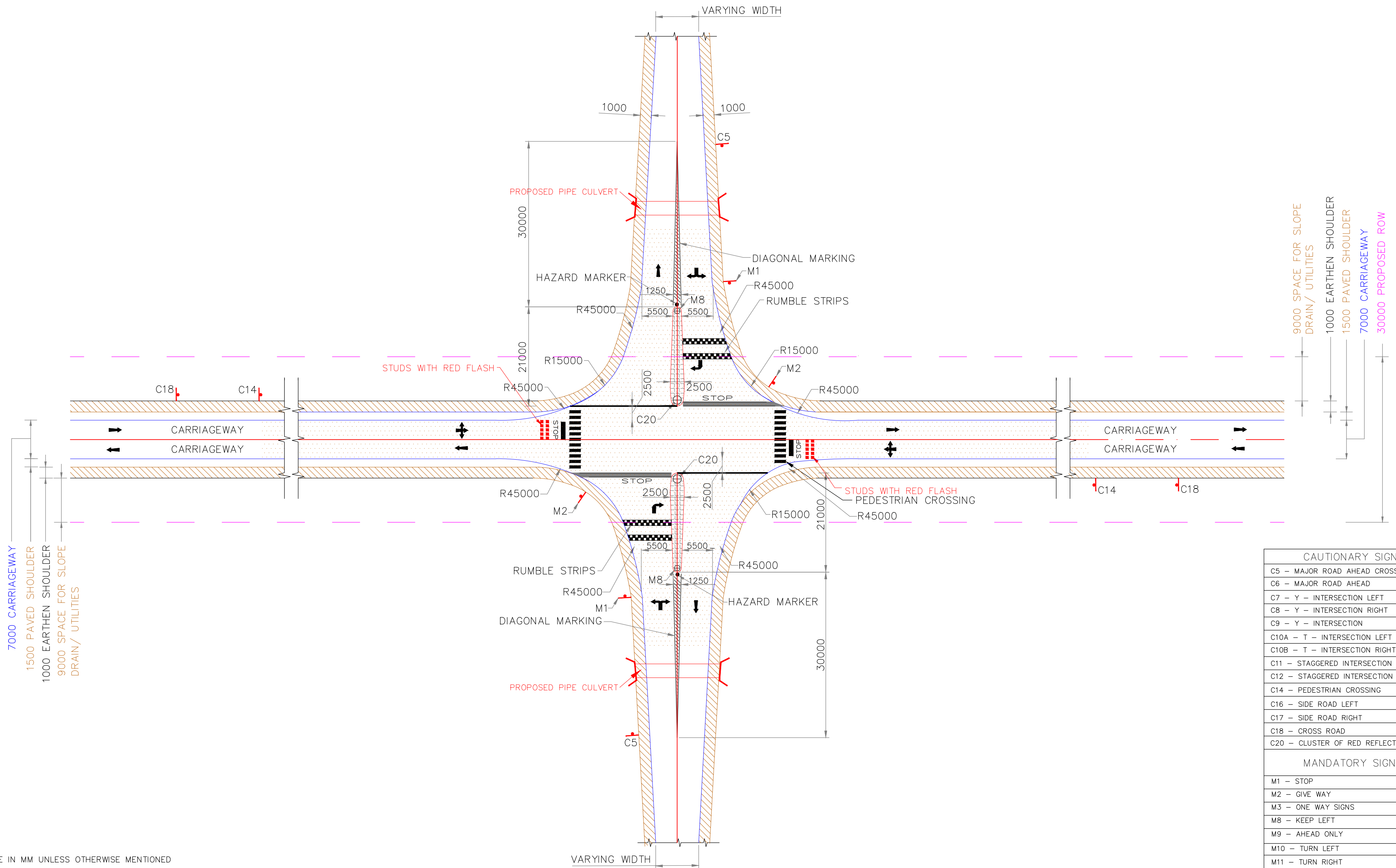
PROPOSED LEGEND					
—	PROPOSED CARRIAGEWAY				
—	PROPOSED PAVED SHOULDER				
—	PROPOSED CENTERLINE				
—	PROPOSED EARTHEN SHOULDER				
---	PROPOSED ROW				

Y-JUNCTION MAJOR (NH-351K)					
SL No.	Chainage (Ch)	Destination		Side	
		Left	Right		
1	0.00	Bagasara	Panya	Both	

3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV	
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV	
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV	
0	05.09.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV	
No	DATE	REVISIONS		BY	CHKD	APPD
Date		Drawn by	Checked by	Scale		
21.11.2023		PATRICK	SRIKANTH	1:500		
File name		Designed by	Approved by	Sheets		
BU-R-24		SURYA KIRAN	SHIVAPRASAD	1 OF 1		

CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT	
	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT	
PROJECT	(NH-351K) SECTION : BAGASARA TO UNA Y-INTERSECTION - MAJOR	
	Plot Size : (A2 Size)	DRG.NO : BU-R-24

CAUTIONARY SIGNS	
C5	MAJOR ROAD AHEAD CROSSING
C6	MAJOR ROAD AHEAD
C7	Y - INTERSECTION LEFT
C8	Y - INTERSECTION RIGHT
C9	Y - INTERSECTION
C10A	T - INTERSECTION LEFT
C10B	T - INTERSECTION RIGHT
C11	STAGGERED INTERSECTION
C12	STAGGERED INTERSECTION
C14	PEDESTRIAN CROSSING
C16	SIDE ROAD LEFT
C17	SIDE ROAD RIGHT
C18	CROSS ROAD
C20	CLUSTER OF RED REFLECTORS
MANDATORY SIGNS	
M1	STOP
M2	GIVE WAY
M3	ONE WAY SIGNS
M8	KEEP LEFT
M9	AHEAD ONLY
M10	TURN LEFT
M11	TURN RIGHT
M12	TURN RIGHT AHEAD



NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
2. DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. ALL ROAD SIGNS SHOULD BE ERECTED AS PER IRC 67.
4. PAVEMENT MARKINGS SHOULD BE PROVIDED AND CAREFULLY MAINTAINED. GUIDANCE IN THIS RESPECT COULD ALSO BE FROM IRC 35.
5. KERBS OF DIRECTIONAL ISLANDS SHOULD BE PAINTED BLACK AND WHITE ALTERNATIVELY IN STRIPES OF 50CM WIDTH.
6. DIRECTIONAL ISLAND AND MEDIAN SHOULD BE COVER WITH CHEQUERED TILES OVER M15 PCC (100mm THK.) TO ENSURE CLEAR VISIBILITY.
7. CARE SHOULD BE TAKEN FOR PROPER DRAINAGE OF SURFACE RUN-OFF FROM INTERSECTIONS.
8. ALL EXISTING UTILITIES FALLING WITHIN PROPOSED ROW SHALL BE SHIFTED TO PROPOSED UTILITY CORRIDOR OR AS DIRECTED BY THE ENGINEER.

PROPOSED LEGEND

	PROPOSED CARRIAGEWAY
	PROPOSED PAVED SHOULDER
	PROPOSED CENTERLINE
	PROPOSED SERVICE ROAD
	PROPOSED EARTHEN SHOULDER
	PROPOSED ROW

4 LEGGED JUNCTION (NH-351K)

SL No.	Chainage (Ch)	Destination		Side
		LEFT SIDE	RIGHT SIDE	
1	24.100	Dhari	Malshika	Both
2	25.450	Dhari	Dalkhania	Both
3	39.060	Nagdhara	Jira	Both
4	65.470	Pipalva	Khambha	Both

3	15.04.25	FINAL DETAILED PROJECT REPORT		JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, NORTH on 09.01.25 & 13.01.25		JTP	SM	SNV
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT		JTP	SM	SNV
0	05.09.24	DRAFT DETAILED PROJECT REPORT		JTP	SM	SNV
				BY	CHKD	APPD
No DATE		REVISIONS				
Date		Drawn by		Checked by		Scale
21.11.2023		PATRICK		SRIKANTH		1:500
File name		Designed by		Approved by		Sheets
BU-R-25		SURYA KIRAN		SHIVAPRASAD		1 OF 1

CLIENT	 सत्यमेव जयते	NATIONAL HIGHWAY DIVISION, RAJKOT	
		DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT	
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT		
	(NH-351K) SECTION : BAGASARA TO UNA 4 - LEGGED INTERSECTION - MINOR		
	Plot Size : (A2 Size)		DRG.NO : BU-R-25

CAUTIONARY SIGNS

C5 – MAJOR ROAD AHEAD CROSSING
C6 – MAJOR ROAD AHEAD
C7 – Y – INTERSECTION LEFT
C8 – Y – INTERSECTION RIGHT
C9 – Y – INTERSECTION
C10A – T – INTERSECTION LEFT
C10B – T – INTERSECTION RIGHT
C11 – STAGGERED INTERSECTION
C12 – STAGGERED INTERSECTION
C14 – PEDESTRIAN CROSSING
C16 – SIDE ROAD LEFT
C17 – SIDE ROAD RIGHT
C18 – CROSS ROAD
C20 – CLUSTER OF RED REFLECTORS

MANDATORY SIGNS

M1 – STOP
M2 – GIVE WAY
M3 – ONE WAY SIGNS
M8 – KEEP LEFT
M9 – AHEAD ONLY
M10 – TURN LEFT
M11 – TURN RIGHT
M12 – TURN RIGHT AHEAD

FDPR

NOTES

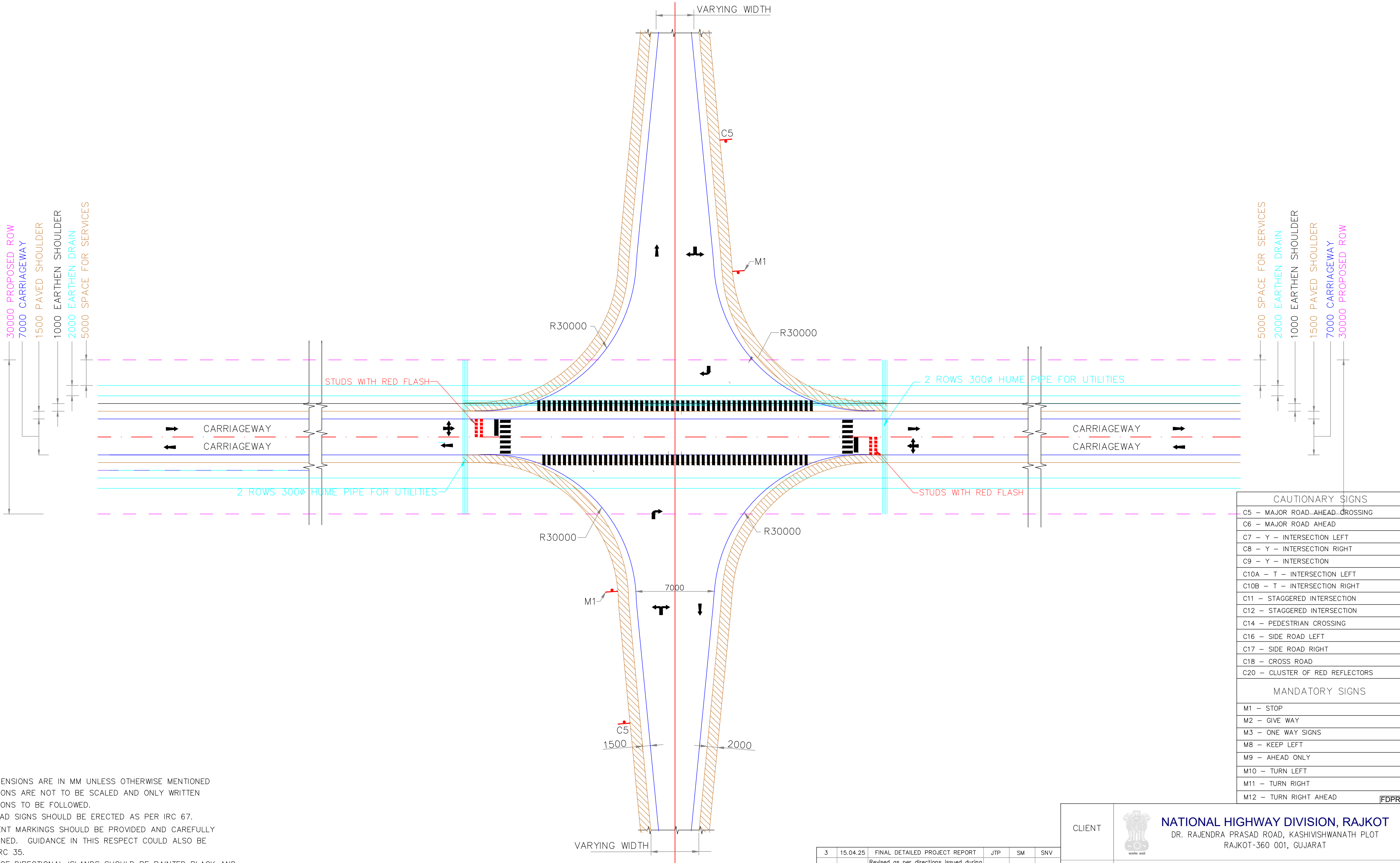
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED
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8. ALL EXISTING UTILITIES FALLING WITHIN PROPOSED ROW SHALL BE SHIFTED TO PROPOSED UTILITY CORRIDOR OR AS DIRECTED BY THE ENGINEER.

PROPOSED LEGEND	
	PROPOSED CARRIAGEWAY
	PROPOSED PAVED SHOULDER
	PROPOSED CENTERLINE
	PROPOSED SERVICE ROAD
	PROPOSED EARTHEN SHOULDER
	PROPOSED ROW

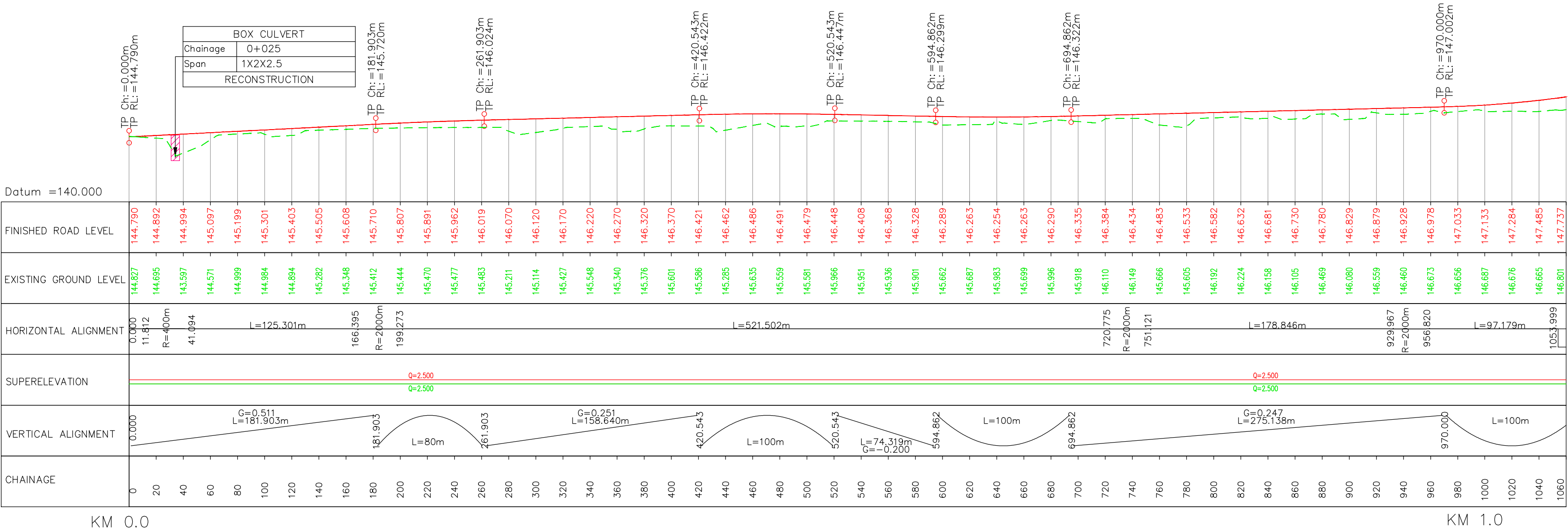
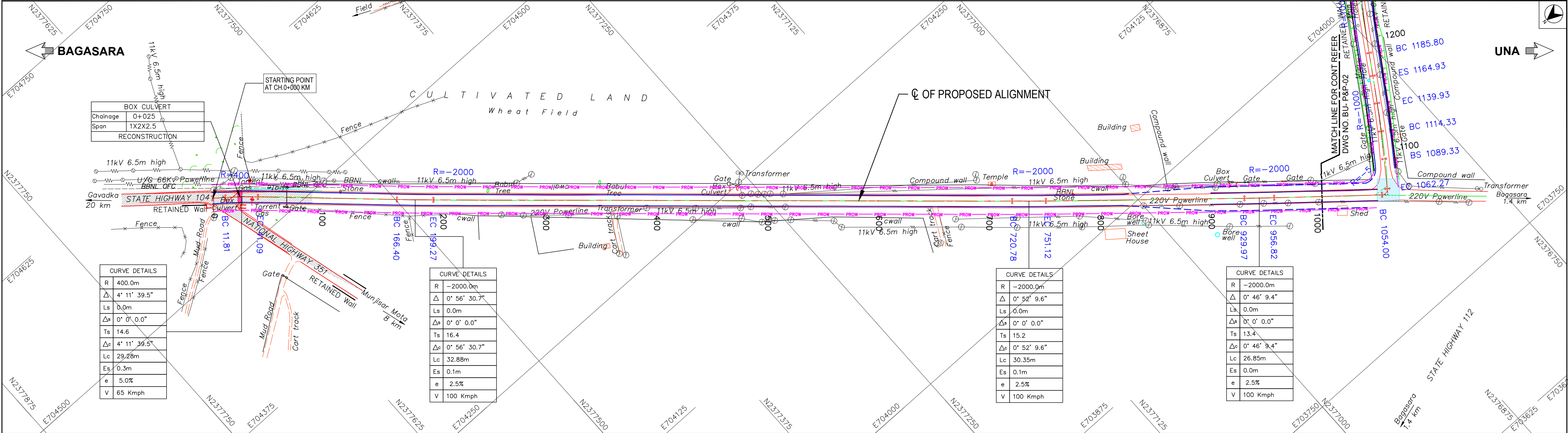
4 LEGGED MAJOR (NH-351K)				
SL No.	Chainage (Ch)	Destination		
		LEFT SIDE	RIGHT SIDE	
1	10.150	Halariya	Hamapur	
2	28.240	Dhari	Sarasiya	

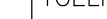
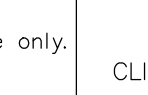
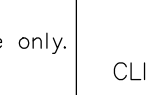
3	15.04.25	FINAL DETAILED PROJECT REPORT	JTP	SM	SNV	
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV	
1	14.11.24	INCORPORATING THE SUGGESTIONS FROM CLIENT	JTP	SM	SNV	
0	05.09.24	DRAFT DETAILED PROJECT REPORT	JTP	SM	SNV	
No	DATE	REVISIONS		BY	CHKD	APPD
Date		Drawn by		Checked by		Scale
21.11.2023		PATRICK		SRIKANTH		1:500
File name		Designed by		Approved by		Sheets
BU-R-25A		SURYA KIRAN		SHIVAPRASAD		1 OF 1

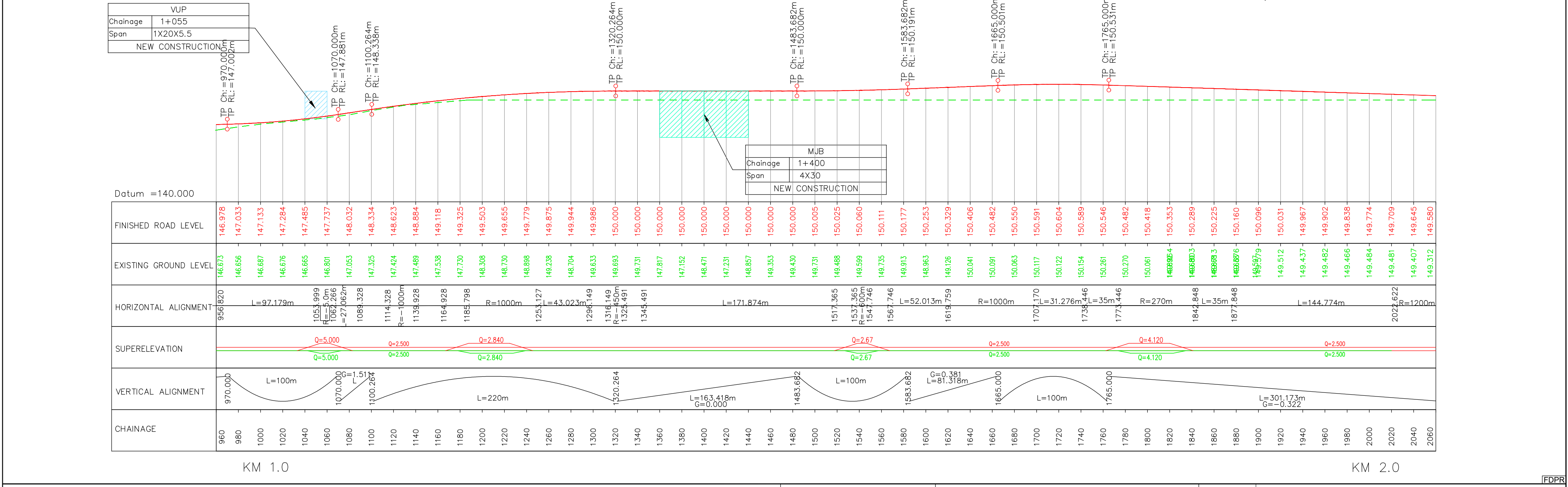
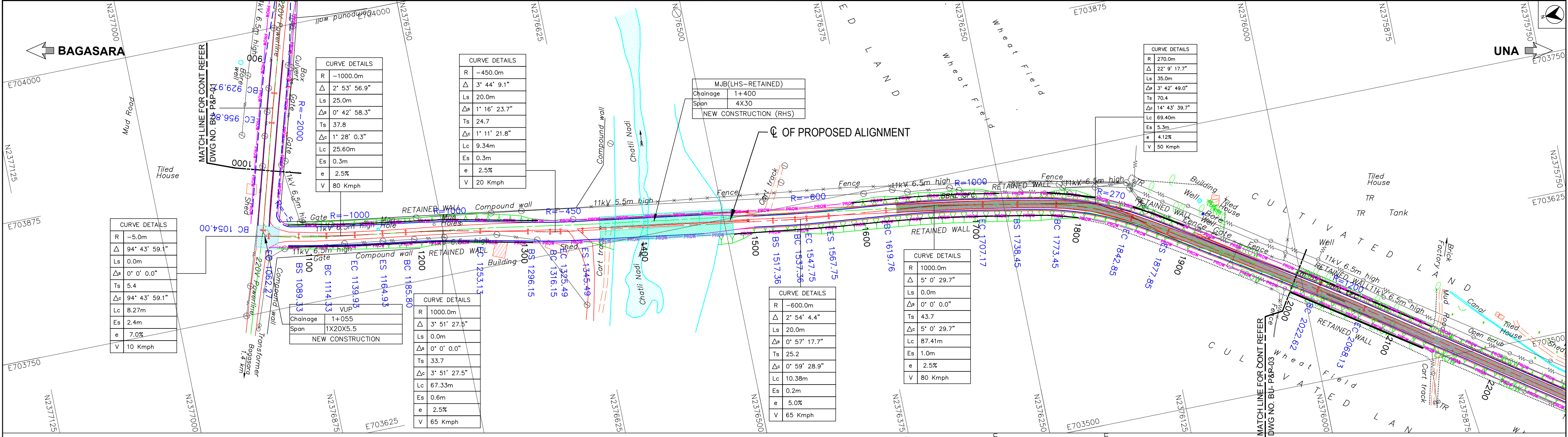
CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT	
	PROJECT	
PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT	
	(NH-351K) SECTION : BAGASARA TO UNA 4 - LEGGED INTERSECTION - MAJOR	
Plot Size : (A2 Size)		DRG.NO : BU-R-25A



CAUTIONARY SIGNS	
C5	MAJOR ROAD AHEAD CROSSING
C6	MAJOR ROAD AHEAD
C7	Y - INTERSECTION LEFT
C8	Y - INTERSECTION RIGHT
C9	Y - INTERSECTION
C10A	T - INTERSECTION LEFT
C10B	T - INTERSECTION RIGHT
C11	STAGGERED INTERSECTION
C12	STAGGERED INTERSECTION
C14	PEDESTRIAN CROSSING
C16	SIDE ROAD LEFT
C17	SIDE ROAD RIGHT
C18	CROSS ROAD
C20	CLUSTER OF RED REFLECTORS
MANDATORY SIGNS	
M1	STOP
M2	GIVE WAY
M3	ONE WAY SIGNS
M8	KEEP LEFT
M9	AHEAD ONLY
M10	TURN LEFT
M11	TURN RIGHT
M12	TURN RIGHT AHEAD



LEGEND				PROFILE LEGEND				Note:				CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIMSHWANATH PLOT RAJKOT-360 001, GUJARAT			
PROPOSED CENTRELIN		ROAD OVER BRIDGE		TOELINES FOR EMBANKMENT		Finished Road Level		1.Depiction of the structures in drawings is indicative only.								
PROPOSED CARRIAGEWAY		BOX, PIPE BOX CULVERTS VUP,PUP,LVUP,CUP	  	TOELINES FOR CUT		Existing Road Level		2.All dimensions are in meters.								
PROPOSED SERVICE ROAD		VEHICULAR OVER PASS		TP: Tangent points		CH: Chainage		3	15.04.25	Final Detailed Project Report	JTP	SM	SNV	PROJECT	 CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT	
PROPOSED EARTHEN SHOULDER		PROPOSED CHAINAGE IN METRE	45	Ls	TRANSITION/SPIRAL LENGTH	RL: Reduced Level		2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV			
PROPOSED DRAIN		BEGINNING & END OF SPIRAL	BS & ES	Δs	DEVIATION ANGLE OF TRANSITION CURVE			1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV			
PROPOSED ROW		BEGINNING & END OF CURVE	BC & EC	Ts	LENGTH OF TANGENT DISTANCE			0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV	 PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CHAINAGE : FROM 0/000 KM TO 1/000 KM	Plot Size : (A2 Size)	DRG.NO : BU—P&P—01
EXISTING ROW		RADIUS OF CURVE	R=500	Δc	DEVIATION ANGLE OF CIRCULAR CURVE			No	DATE	REVISIONS	BY	CHKD	APPD			
EXISTING CARRIAGEWAY		PROPOSED BRIDGE	 	Lc	LENGTH OF CURVE			Date	21.11.2023	Drawn by	PATRICK	Checked by	SRIKANTH			
ELEVATED HIGHWAY	 	EXISTING BRIDGE	 	Es	APEX DISTANCE			File name	BU—P&P—01 TO 08	Designed by	SURYA KIRAN	Approved by	SHIVAPRASAD	Sheets	01 OF 88	
MAJOR BRIDGE, FLYOVER	 	PROPOSED BOX CULVERT	 	e	SUPER ELEVATION											
MINOR BRIDGE		EXISTING BOX CULVERT	 	V	SPEED											



LEGEND

PROPOSED CENTRELINER
PROPOSED CARRIAGEWAY
PROPOSED SERVICE ROAD
PROPOSED EARTHEN SHOULDER
PROPOSED DRAIN
PROPOSED ROW
EXISTING ROW
EXISTING CARRIAGEWAY
ELEVATED HIGHWAY
MAJOR BRIDGE, FLYOVER
MINOR BRIDGE

ROAD OVER BRIDGE
BOX, PIPE BOX CULVERTS
VUP,PUP,LVUP,CUP
VEHICULAR OVER PASS
PROPOSED CHAINAGE IN METRE
BEGINNING & END OF SPIRAL
BEGINNING & END OF CURVE
RADIUS OF CURVE
PROPOSED BRIDGE
EXISTING BRIDGE
PROPOSED BOX CULVERT
EXISTING BOX CULVERT

TOELINES FOR EMBANKMENT
TOELINES FOR CUT
R
Ls
Ts
Lc
Es
e
V

PROFILE LEGEND
Finished Road Level
Existing Road Level
TP: Tangent points
CH: Chainage
RL: Reduced Level

Note:
1. Depiction of the structures in drawings is indicative only.
2. All dimensions are in meters.

3	15.04.25	Final Detailed Project Report	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, NORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

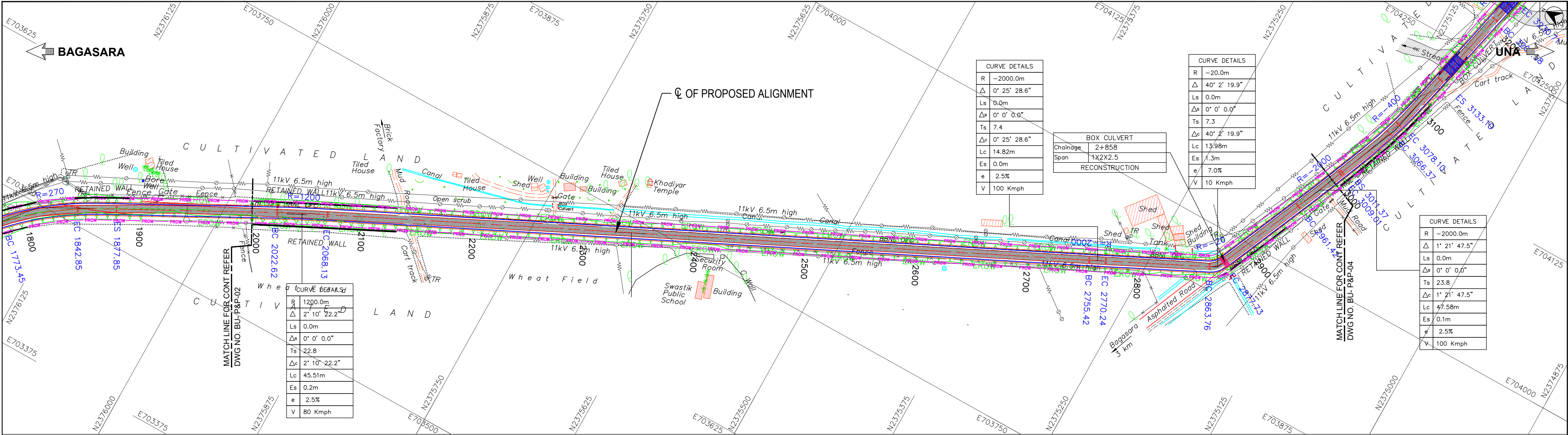
No	DATE	REVISED	BY	CHKD	APPD
21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale HOR: 1:2500 VER: 1:250		
File name BU-P&P-01 TO 08	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 02 OF 88		

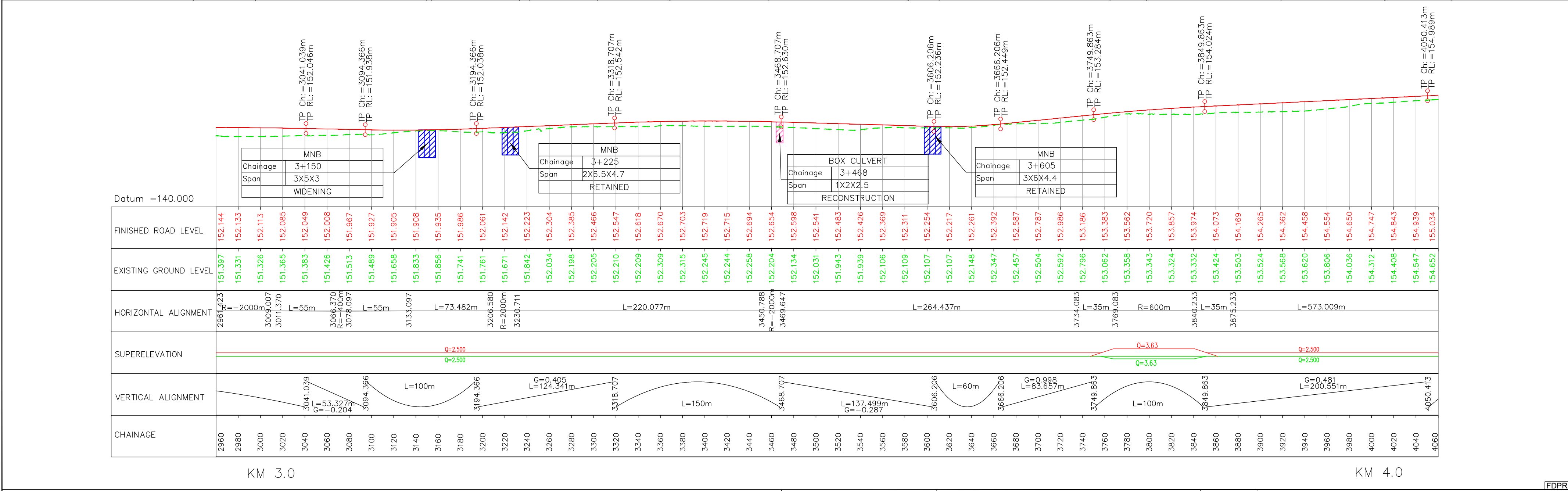
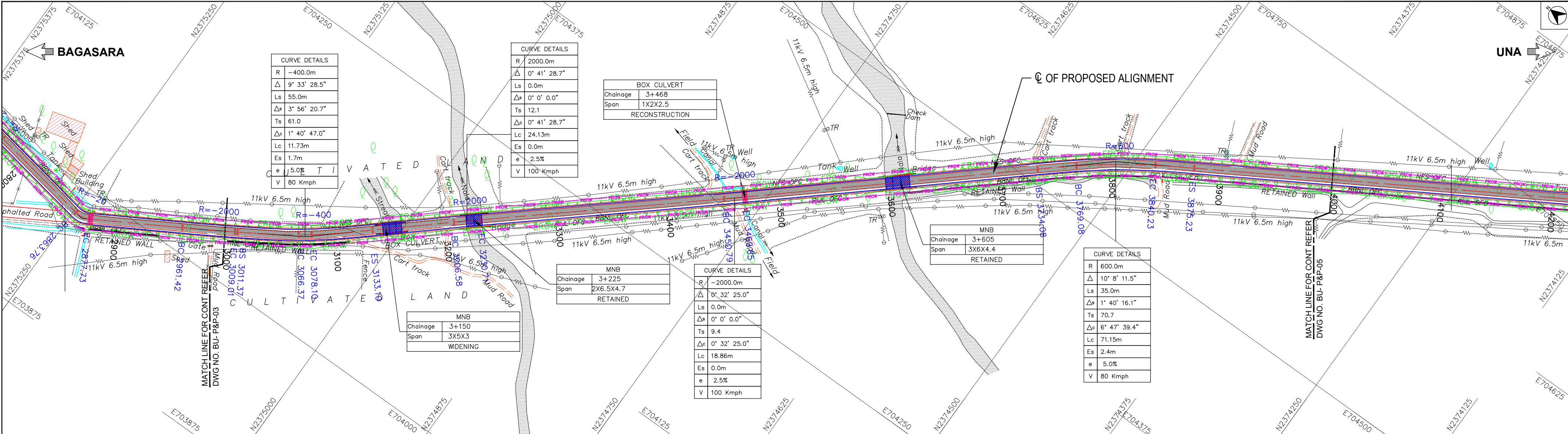
CLIENT
NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIWASHWATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT
CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT

PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 1/000 KM TO 2/000 KM

Plot Size : (A2 Size) DRG.NO : BU-P&P-02





LEGEND

PROPOSED CENTRELINE

PROPOSED CARRIAGEWAY

PROPOSED SERVICE ROAD

PROPOSED EARTHEN SHOULDER

PROPOSED DRAIN

PROPOSED ROW

EXISTING ROW

EXISTING CARRIAGEWAY

ELEVATED HIGHWAY

MAJOR BRIDGE, FLYOVER

MINOR BRIDGE

ROAD OVER BRIDGE

BOX, PIPE BOX CULVERTS

VUP,PUP,LVUP,CUP

VEHICULAR OVER PASS

PROPOSED CHAINAGE IN METRE

BEGINNING & END OF SPIRAL

BEGINNING & END OF CURVE

RADIUS OF CURVE

PROPOSED BRIDGE

EXISTING BRIDGE

PROPOSED BOX CULVERT

EXISTING BOX CULVERT

TOELINES FOR EMBANKMENT

TOELINES FOR CUT

R RADIUS

Δ INCLUDED ANGLE

Ls TRANSITION/SPIRAL LENGTH

Δs DEVIATION ANGLE OF TRANSITION CURVE

Ts LENGTH OF TANGENT DISTANCE

Δc DEVIATION ANGLE OF CIRCULAR CURVE

Lc LENGTH OF CURVE

Es APEX DISTANCE

e SUPER ELEVATION

V SPEED

PROFILE LEGEND

Finished Road Level

Existing Road Level

TP: Tangent points

CH: Chainage

RL: Reduced Level

Note:

1.Depiction of the structures in drawings is indicative only.

2.All dimensions are in meters.

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2	06.02.25	Revised as per directions issued during meeting with SE, NORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
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0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale	HOR:1:2500 VER:1:250
File name	BU-P&P-01 TO 08	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets	04 OF 88

CLIENT

NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT
RAJKOT-360 001, GUJARAT

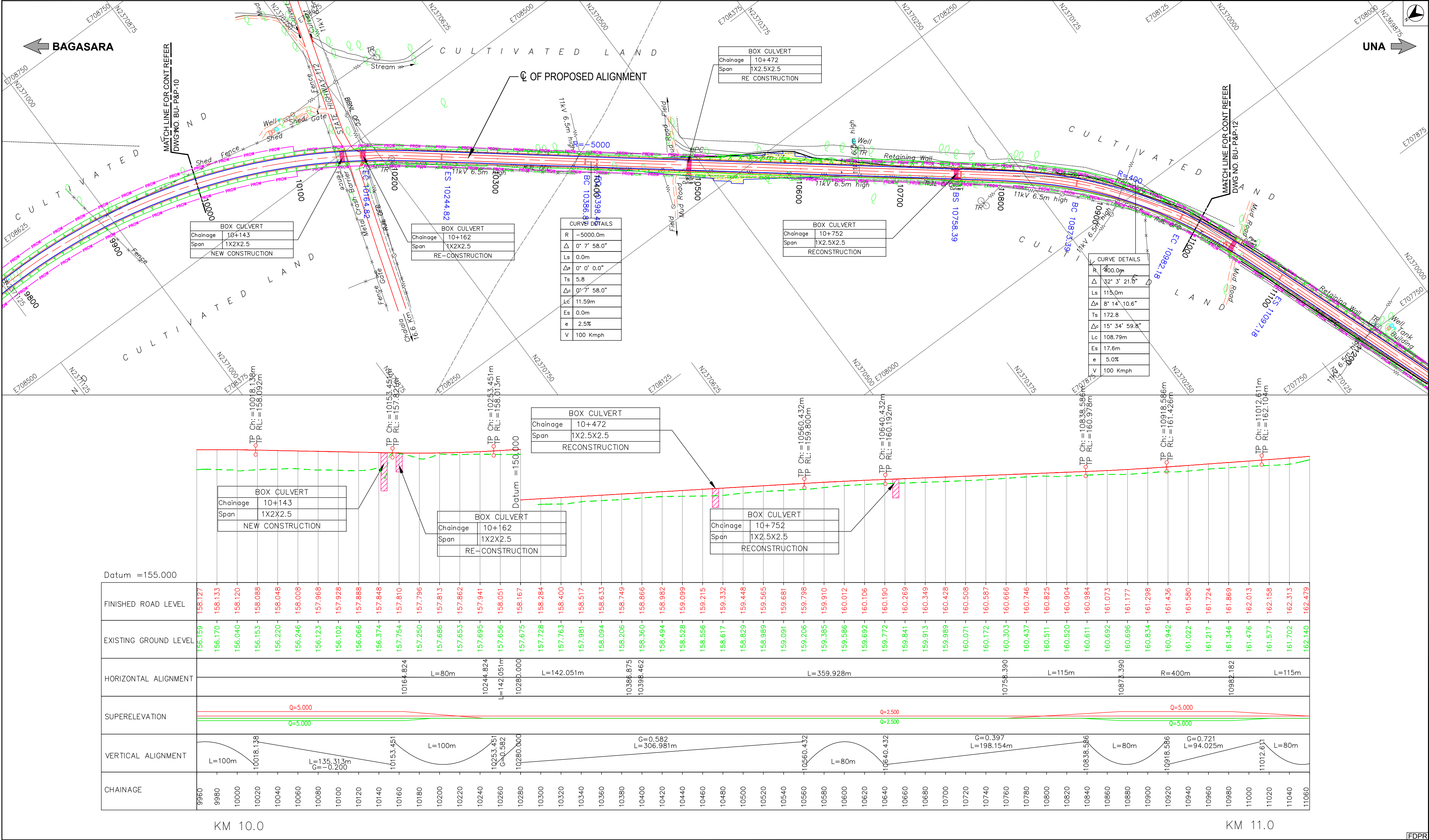
PROJECT

CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT

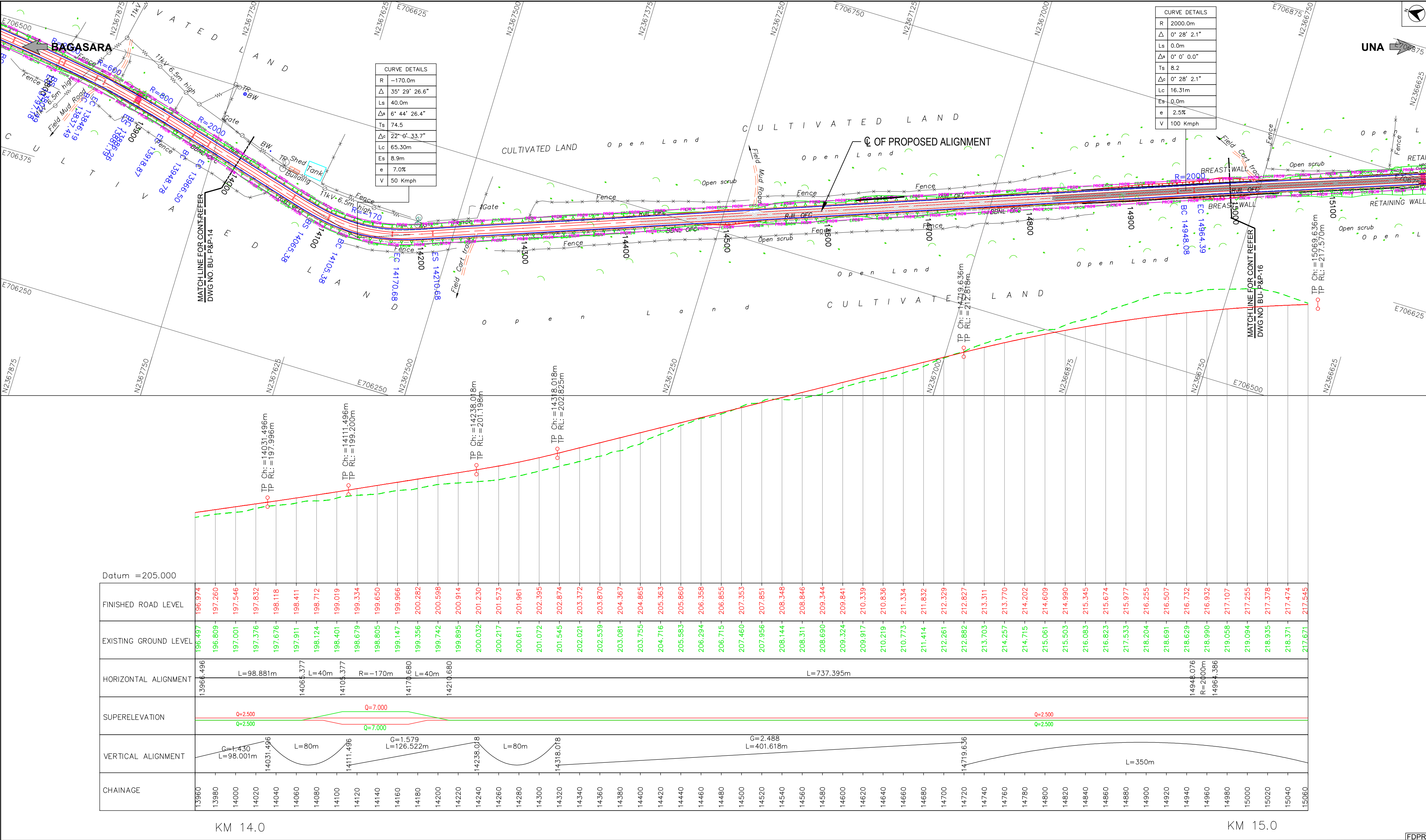
PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 3/000 KM TO 4/000 KM

Plot Size : (A2 Size)

DRG.NO : BU-P&P-04



LEGEND				PROFILE LEGEND				Note:						CLIENT		NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT									
PROPOSED CENTRELIN				TOELINES FOR EMBANKMENT				1.Depiction of the structures in drawings is indicative only.																	
PROPOSED CARRIAGEWAY				TOELINES FOR CUT				2.All dimensions are in meters.																	
PROPOSED SERVICE ROAD				R RADIUS				TP: Tangent points						3	15.04.25	Final Detailed Project Report			JTP	SM	SNV				
PROPOSED EARTHEN SHOULDER				Ls TRANSITION/SPIRAL LENGTH				CH: Chainage						2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25			JTP	SM	SNV				
PROPOSED DRAIN				Ts DEVIATION ANGLE OF TRANSITION CURVE				RL: Reduced Level						1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24			JTP	SM	SNV				
PROPOSED ROW				Δc DEVIATION ANGLE OF CIRCULAR CURVE										0	05.09.24	Draft Detailed Project Report			JTP	SM	SNV				
EXISTING ROW				Lc LENGTH OF CURVE										No DATE			BY	CHKD	APPD						
EXISTING CARRIAGEWAY				Es APEX DISTANCE										Date 21.11.2023		Drawn by PATRICK		Checked by SRIKANTH		Scale HOR : 1:2500 VER : 1:250					
ELEVATED HIGHWAY				e SUPER ELEVATION										File name BU-P&P-08 TO 16		Designed by SURYA KIRAN		Approved by SHIVAPRASAD		Sheets 11 OF 88					
MAJOR BRIDGE, FLYOVER				V SPEED																					
MINOR BRIDGE																									
ROAD OVER BRIDGE																									
BOX, PIPE CULVERTS																									
VUP,PUP,LVUP,CUP																									
VEHICULAR OVER PASS																									
PROPOSED CHAINAGE IN METRE																									
BEGINNING & END OF SPIRAL																									
BEGINNING & END OF CURVE																									
RADIUS OF CURVE																									
PROPOSED BRIDGE																									
EXISTING BRIDGE																									
PROPOSED CULVERT																									
EXISTING CULVERT																									
														PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CHAINAGE : FROM 10/000 KM TO 11/000 KM											
														Plot Size : (A2 Size)						DRG.NO : BU-P&P-11					



LEGEND

PROPOSED CENTRELINE
PROPOSED CARRIAGEWAY
PROPOSED SERVICE ROAD
PROPOSED EARTHEN SHOULDER
PROPOSED DRAIN
PROPOSED ROW
EXISTING ROW
EXISTING CARRIAGEWAY
ELEVATED HIGHWAY
MAJOR BRIDGE, FLYOVER
MINOR BRIDGE

ROAD OVER BRIDGE
BOX, PIPE CULVERTS
VUP,PUP,LVUP,CUP
VEHICULAR OVER PASS
PROPOSED CHAINAGE IN METRE
BEGINNING & END OF SPIRAL
BEGINNING & END OF CURVE
RADIUS OF CURVE
PROPOSED BRIDGE
EXISTING BRIDGE
PROPOSED CULVERT
EXISTING CULVERT

TOELINES FOR EMBANKMENT
TOELINES FOR CUT
R RADIUS
Δ INCLUDED ANGLE
Ls TRANSITION/SPIRAL LENGTH
Δs DEVIATION ANGLE OF TRANSITION CURVE
Ts LENGTH OF TANGENT DISTANCE
Δc DEVIATION ANGLE OF CIRCULAR CURVE
Lc LENGTH OF CURVE
Es APEX DISTANCE
e SUPER ELEVATION
V SPEED

PROFILE LEGEND

Finished Road Level
Existing Road Level
TP: Tangent points
CH: Chainage
RL: Reduced Level

Note:

1. Depiction of the structures in drawings is indicative only.
2. All dimensions are in meters.

No	DATE	REVISIONS	BY	CHKD	APPD
3	15.04.25	Final Detailed Project Report	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, NORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

Date	Drawn by	Checked by	Scale
21.11.2023	PATRICK	SRIKANTH	HOR : 1:2500 VER : 1:250

File name	Designed by	Approved by	Sheets
BU-P&P-08 TO 16	SURYA KIRAN	SHIVAPRASAD	15 OF 88

CLIENT

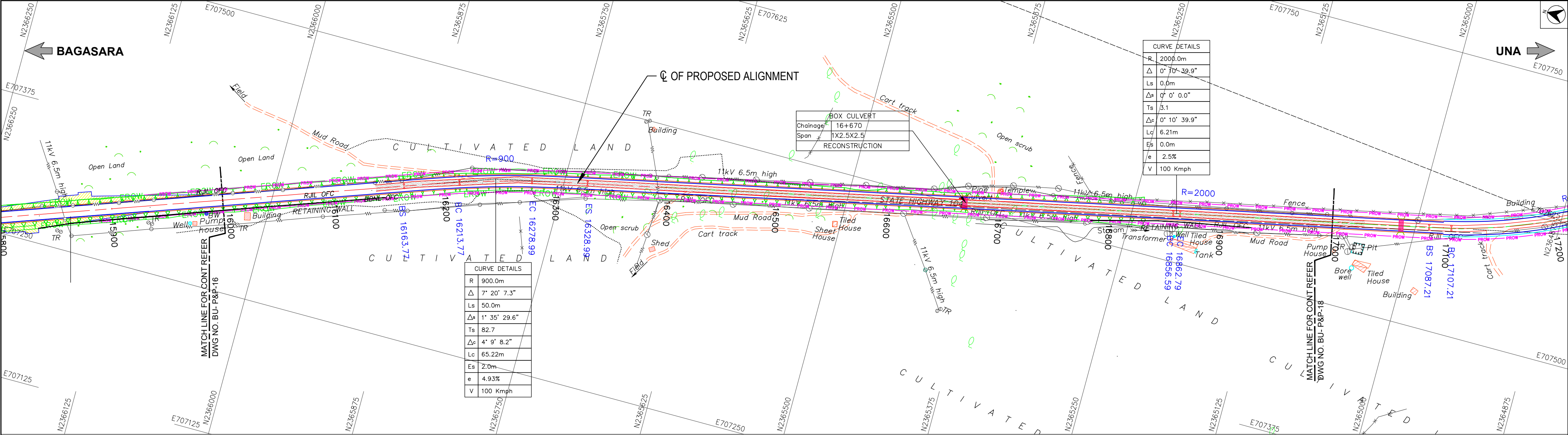
NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

**CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT**

**PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 14/000 KM TO 15/000 KM**

Plot Size : (A2 Size) DRG.NO : BU-P&P-15



LEGEND

PROPOSED CENTRELINE

PROPOSED CARRIAGEWAY

PROPOSED SERVICE ROAD

PROPOSED EARTHEN SHOULDER

PROPOSED DRAIN

PROPOSED ROW

EXISTING ROW

EXISTING CARRIAGEWAY

ELEVATED HIGHWAY

MAJOR BRIDGE, FLYOVER

MINOR BRIDGE

ROAD OVER BRIDGE

BOX, PIPE CULVERTS

VUP,PUP,LVUP,CUP

VEHICULAR OVER PASS

PROPOSED CHAINAGE IN METRE

BEGINNING & END OF SPIRAL

BEGINNING & END OF CURVE

RADIUS OF CURVE

PROPOSED BRIDGE

EXISTING BRIDGE

PROPOSED CULVERT

EXISTING CULVERT

45

BS & ES

BC & EC

R=500

TOELINES FOR EMBANKMENT

TOELINES FOR CUT

R RADIUS

Δ INCLUDED ANGLE

Ls TRANSITION/SPIRAL LENGTH

Δs DEVIATION ANGLE OF TRANSITION CURVE

Ts LENGTH OF TANGENT DISTANCE

Δc DEVIATION ANGLE OF CIRCULAR CURVE

Lc LENGTH OF CURVE

Es APEX DISTANCE

e SUPER ELEVATION

V SPEED

Note:
1.Depiction of the structures in drawings is indicative only.
2.All dimensions are in meters.

3	15.04.25	Final Detailed Project Report	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, NORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale	HOR :1:2500 VER :1:250
File name	BU-P&P-17 TO 22	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets	17 OF 88

CLIENT

PROJECT

NATIONAL HIGHWAY DIVISION, RAJKOT

DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT

RAJKOT-360 001, GUJARAT

CONSULTANCY SERVICES FOR UP GRADATION OF

UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA

NATIONAL HIGHWAY IN THE STATE OF GUJARAT

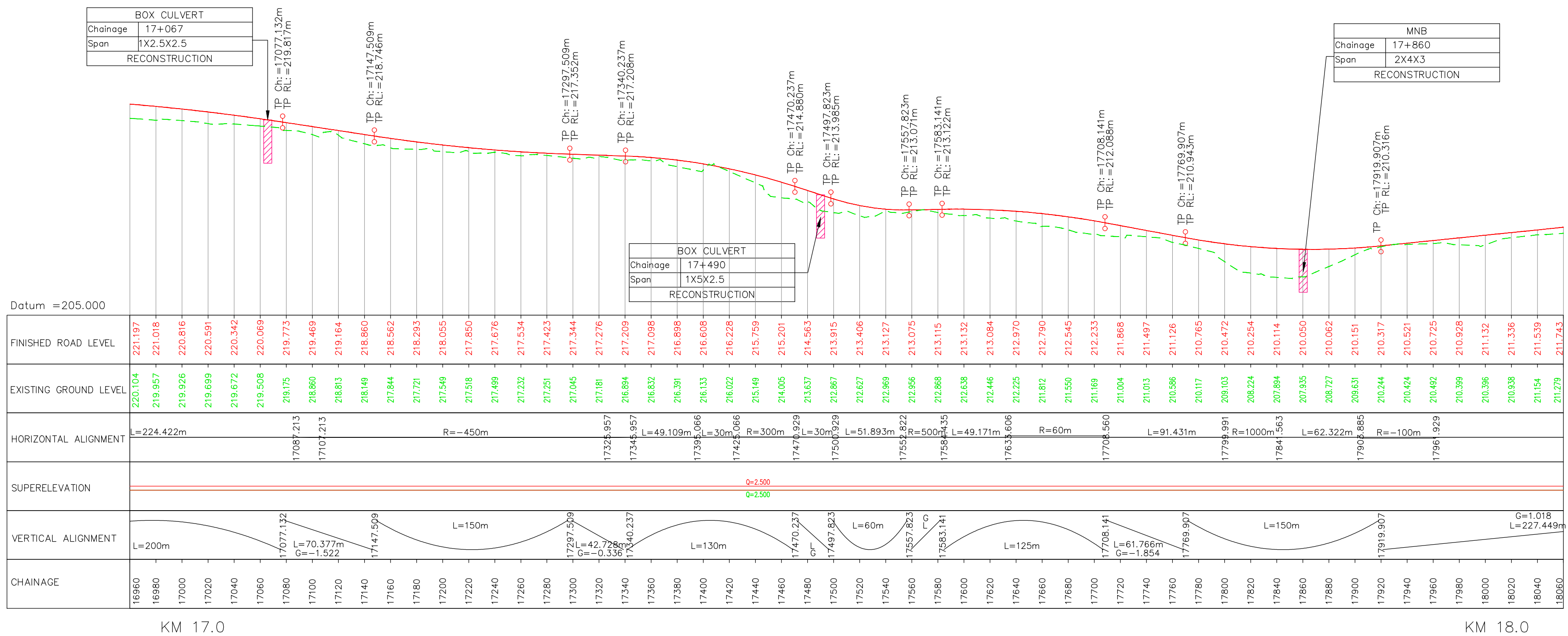
PLAN (NH-351K)

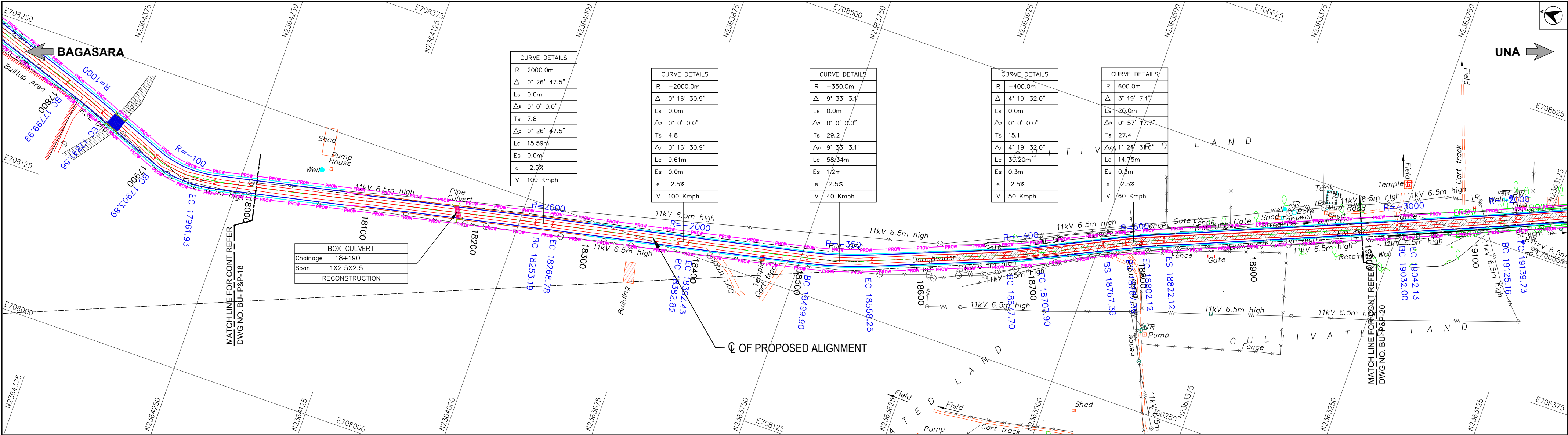
SECTION : BAGASARA TO UNA

CHAINAGE : FROM 16/000 KM TO 17/000 KM

Plot Size : (A2 Size)

DRG.NO : BU-P&P-17

[illegible]



LEGEND

PROPOSED CENTRELINE

PROPOSED CARRIAGEWAY

PROPOSED SERVICE ROAD

PROPOSED EARTHEN SHOULDER

PROPOSED DRAIN

PROPOSED ROW

EXISTING ROW

EXISTING CARRIAGEWAY

ELEVATED HIGHWAY

MAJOR BRIDGE, FLYOVER

MINOR BRIDGE

ROAD OVER BRIDGE

BOX, PIPE CULVERTS

VUP,PUP,LVUP,CUP

VEHICULAR OVER PASS

PROPOSED CHAINAGE IN METRE

BEGINNING & END OF SPIRAL

BEGINNING & END OF CURVE

RADIUS OF CURVE

PROPOSED BRIDGE

EXISTING BRIDGE

PROPOSED CULVERT

EXISTING CULVERT

45

BS & ES

BC & EC

R=500

TOELINES FOR EMBANKMENT

TOELINES FOR CUT

R RADIUS

Δ INCLUDED ANGLE

Ls TRANSITION/SPIRAL LENGTH

Δs DEVIATION ANGLE OF TRANSITION CURVE

Ts LENGTH OF TANGENT DISTANCE

Δc DEVIATION ANGLE OF CIRCULAR CURVE

Lc LENGTH OF CURVE

Es APEX DISTANCE

e SUPER ELEVATION

V SPEED

Note:
1.Depiction of the structures in drawings is indicative only.
2.All dimensions are in meters.

3	15.04.25	Final Detailed Project Report	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, NORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
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0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale	HOR :1:2500 VER :1:250
File name	BU-P&P-17 TO 22	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets	19 OF 88

CLIENT

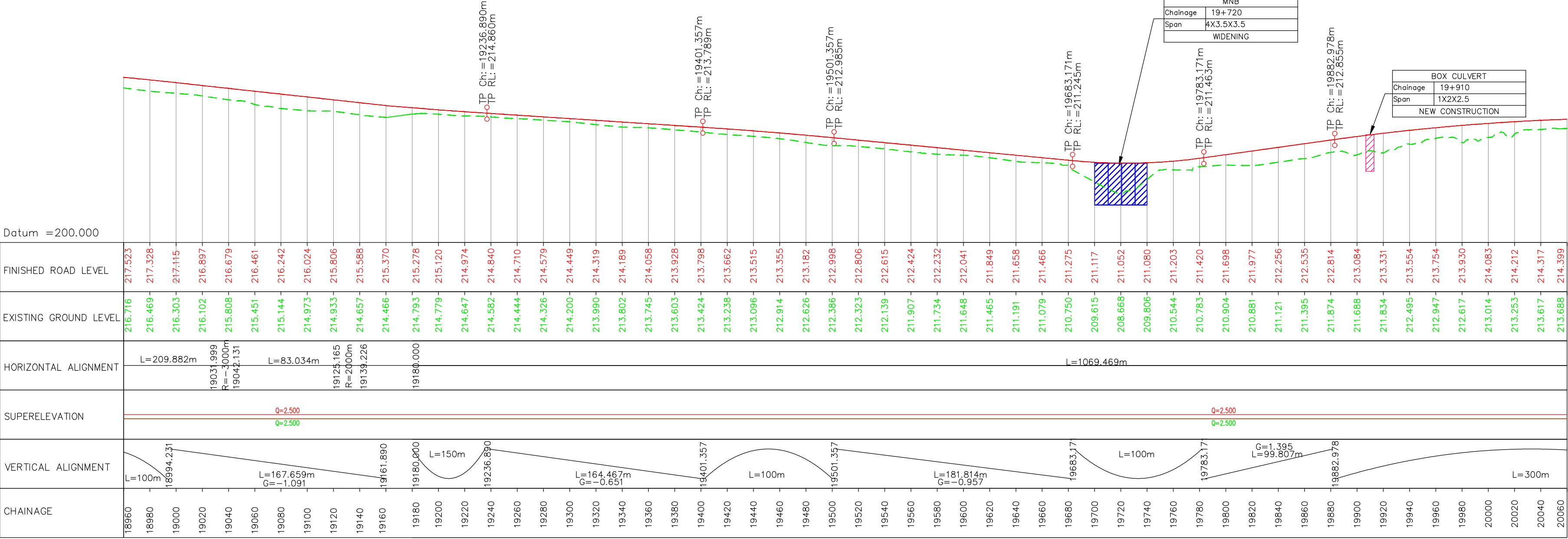
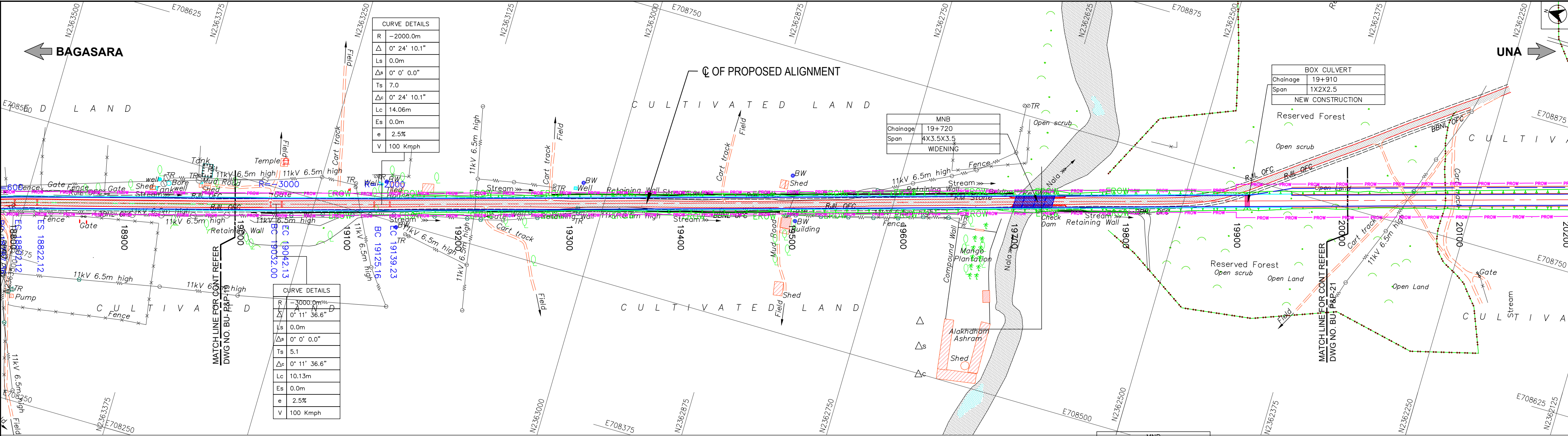
NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT

PLAN (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 18/000 KM TO 19/000 KM

Plot Size : (A2 Size) DRG.NO : BU-P&P-19



LEGEND

PROPOSED CENTRELINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED SERVICE ROAD	---
PROPOSED EARTHEN SHOULDER	---
PROPOSED DRAIN	---
PROPOSED ROW	---
EXISTING ROW	---
EXISTING CARRIAGEWAY	---
ELEVATED HIGHWAY	---
MAJOR BRIDGE, FLYOVER	---
MINOR BRIDGE	---

ROAD OVER BRIDGE	---
BOX, PIPE CULVERTS	---
VUP, PUP, LVUP, CUP	---
VEHICULAR OVER PASS	---
PROPOSED CHAINAGE IN METRE	---
BEGINNING & END OF SPIRAL	---
BEGINNING & END OF CURVE	---
RADIUS OF CURVE	---
PROPOSED BRIDGE	---
EXISTING BRIDGE	---
PROPOSED CULVERT	---
EXISTING CULVERT	---

TOELINES FOR EMBANKMENT	---
TOELINES FOR CUT	---
R	---
Ls	---
Δs	---
Ts	---
Δc	---
Lc	---
Es	---
e	---
V	---

PROFILE LEGEND

Finished Road Level	---
Existing Road Level	---
TP: Tangent points	---
CH: Chainage	---
RL: Reduced Level	---

Note:

- Depiction of the structures in drawings is indicative only.
- All dimensions are in meters.

3	15.04.25	Final Detailed Project Report	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale	HOR : 1:2500 VER : 1:250
File name	BU-P&P-17 TO 22	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets	20 OF 88

CLIENT

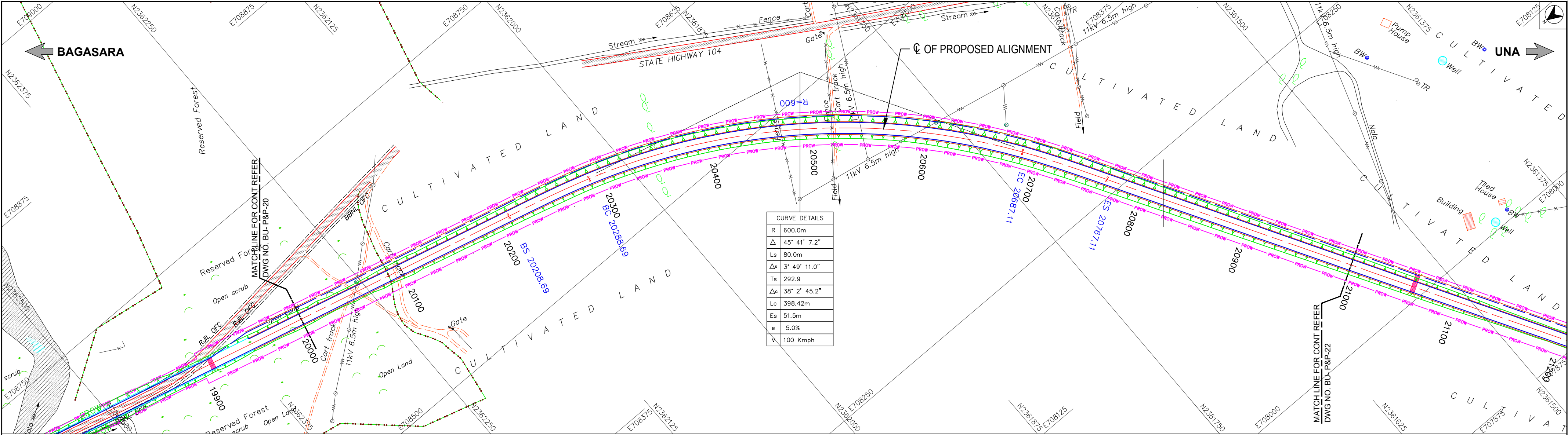
NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

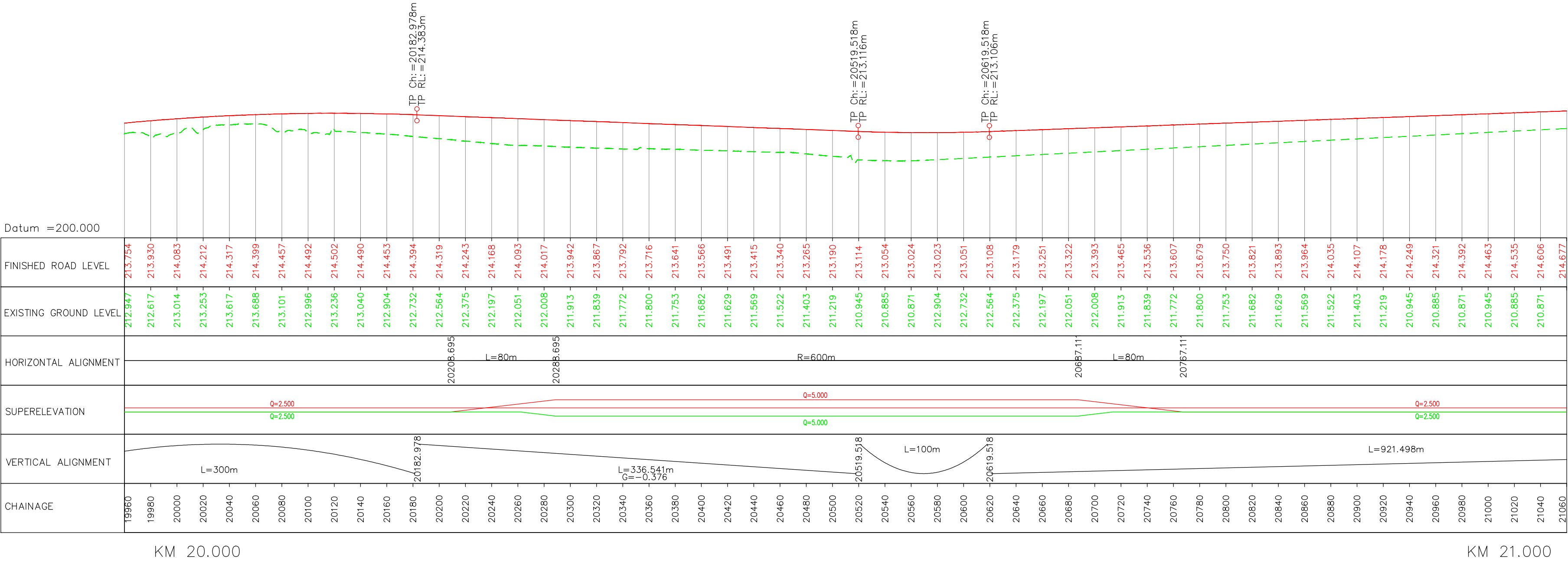
CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT

PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 19/000 KM TO 20/000 KM

Plot Size : (A2 Size) DRG.NO : BU-P&P-20



CURVE DETAILS	
R	600.0m
Δ	45° 41' 7.2"
Ls	80.0m
Δs	3° 49' 11.0"
Ts	292.9
Δc	38° 2' 45.2"
Lc	398.42m
Es	51.5m
e	5.0%
V	100 Kmph



LEGEND

PROPOSED CENTRELINE

PROPOSED CARRIAGEWAY

PROPOSED SERVICE ROAD

PROPOSED EARTHEN SHOULDER

PROPOSED DRAIN

PROPOSED ROW

EXISTING ROW

EXISTING CARRIAGEWAY

ELEVATED HIGHWAY

MAJOR BRIDGE, FLYOVER

MINOR BRIDGE

ROAD OVER BRIDGE

BOX, PIPE CULVERTS

VUP,PUP,LVUP,CUP

VEHICULAR OVER PASS

PROPOSED CHAINAGE IN METRE

BEGINNING & END OF SPIRAL

BEGINNING & END OF CURVE

RADIUS OF CURVE

PROPOSED BRIDGE

EXISTING BRIDGE

PROPOSED CULVERT

EXISTING CULVERT

TOELINES FOR EMBANKMENT

TOELINES FOR CUT

R RADIUS

Δ INCLUDED ANGLE

Ls TRANSITION/SPIRAL LENGTH

Δs DEVIATION ANGLE OF TRANSITION CURVE

Ts LENGTH OF TANGENT DISTANCE

Δc DEVIATION ANGLE OF CIRCULAR CURVE

Lc LENGTH OF CURVE

Es APEX DISTANCE

e SUPER ELEVATION

V SPEED

PROFILE LEGEND

Finished Road Level

Existing Road Level

TP: Tangent points

CH: Chainage

RL: Reduced Level

Note:

1.Depiction of the structures in drawings is indicative only.

2.All dimensions are in meters.

3	15.04.25	Final Detailed Project Report	JTP	SM	SNV
2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV
1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE, Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV
0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale HOR :1:2500 VER :1:250	
File name	BU-P&P-17 TO 22	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 21 OF 88	

CLIENT



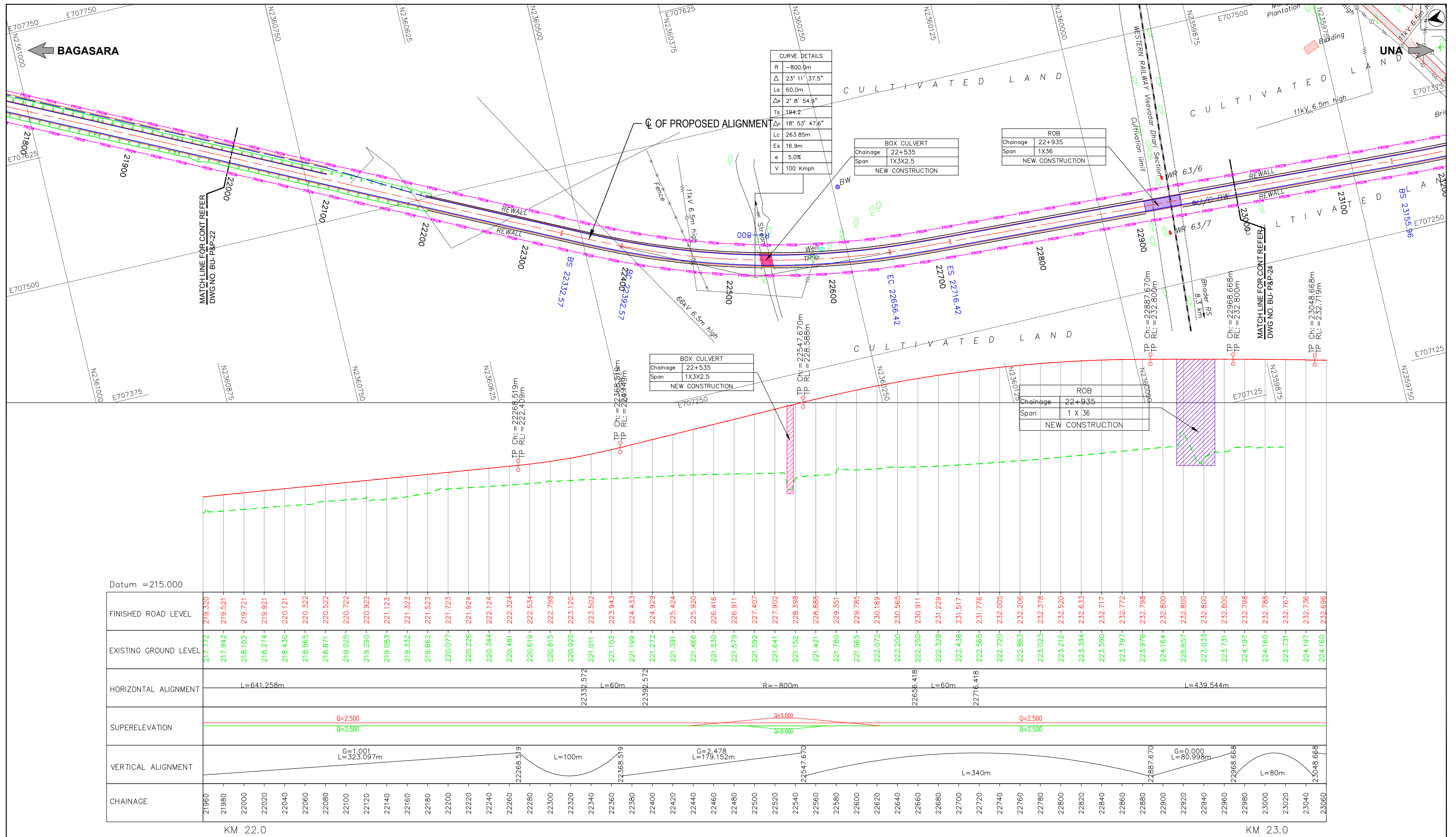
NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

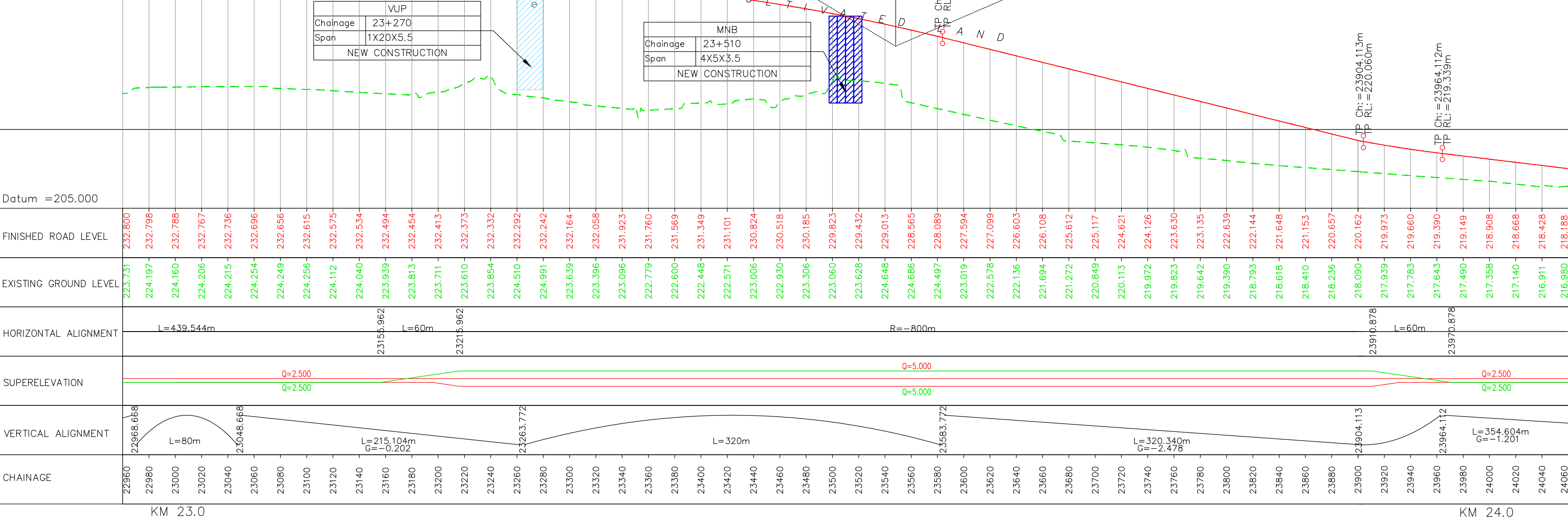
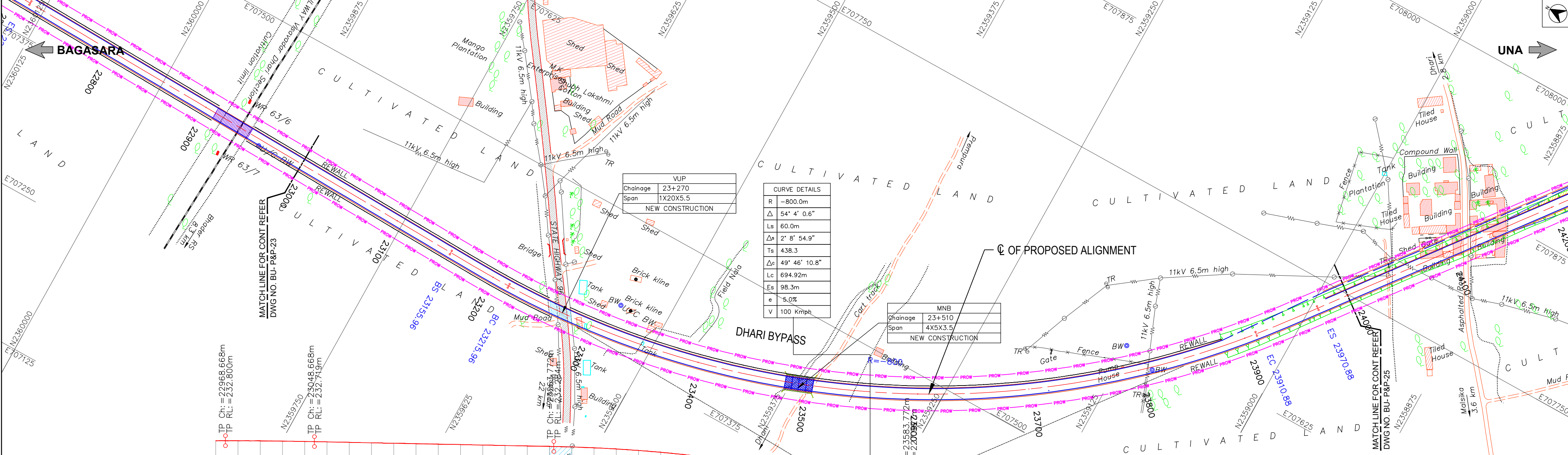
CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT

PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 20/000 KM TO 21/000 KM

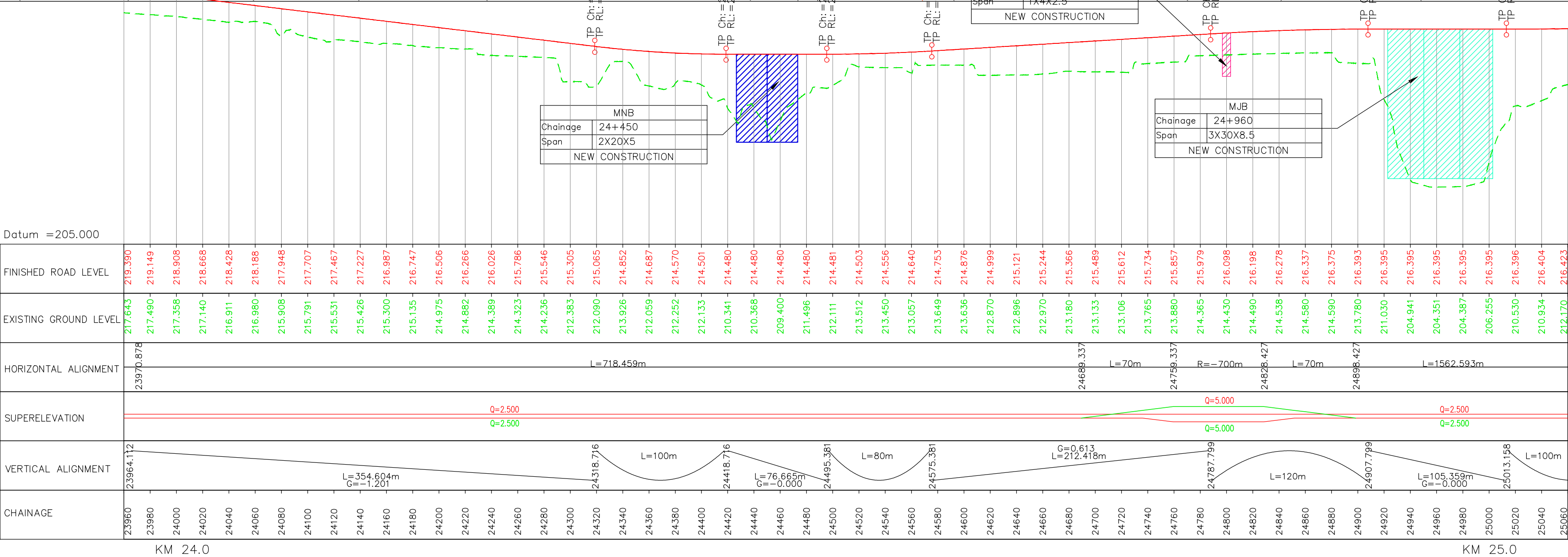
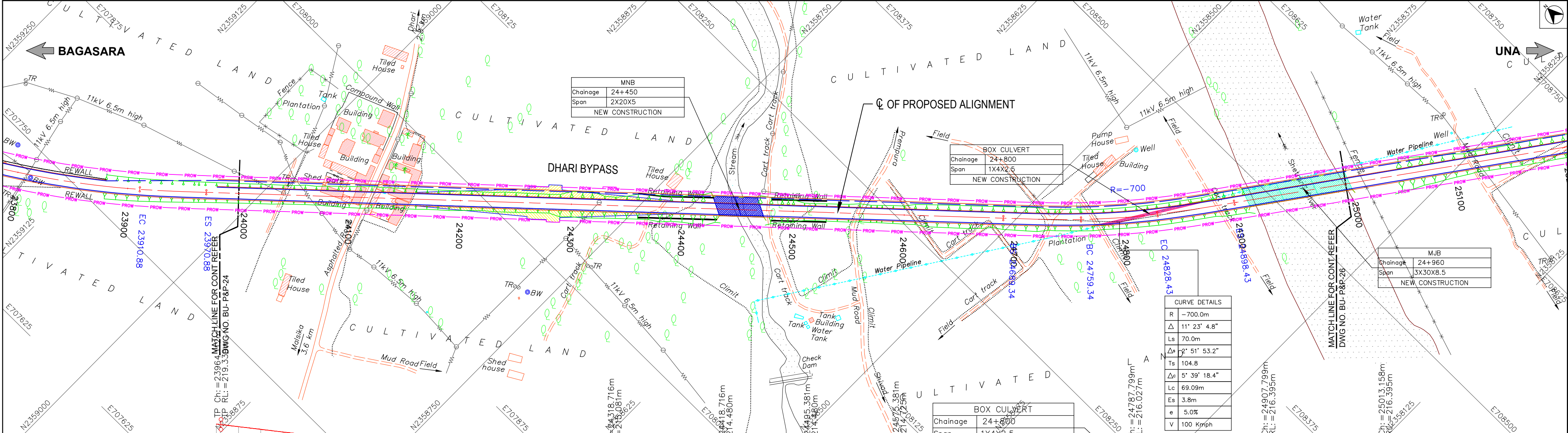
Plot Size : (A2 Size) DRG.NO : BU-P&P-21



LEGEND										PROFILE LEGEND										Note:										CLIENT		NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIWHSWANATH PLOT RAJKOT-360 001, GUJARAT	PROJECT	CONSULTANCY SERVICES FOR UP GRADATION OF UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA NATIONAL HIGHWAY IN THE STATE OF GUJARAT	PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNA CHAINAGE : FROM 22/000 KM TO 23/000 KM		Plot Size : (A2 Size)	DRG.NO : BU-P&P-23
PROPOSED CENTRELINE										TOELINES FOR EMBANKMENT										1.Depiction of the structures in drawings is indicative only.																		
PROPOSED CARRIAGEWAY										TOELINES FOR CUT										2.All dimensions are in meters.																		
PROPOSED SERVICE ROAD										R RADIUS										3 15.04.25 Final Detailed Project Report JTP SM SNV																		
PROPOSED EARTHEN SHOULDER										Δ INCLUDED ANGLE										2 06.02.25 Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25 incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24 JTP SM SNV																		
PROPOSED DRAIN										Ls TRANSITION/SPIRAL LENGTH										0 05.09.24 Draft Detailed Project Report JTP SM SNV																		
PROPOSED ROW										Δs DEVIATION ANGLE OF TRANSITION CURVE										No DATE REVISIONS BY CHKD APPD																		
EXISTING ROW										Ts LENGTH OF TANGENT DISTANCE										Date 21.11.2023 Drawn by PATRICK Checked by SRIKANTH Scale HOR : 1: 2500 VER : 1: 250																		
EXISTING CARRIAGEWAY										Δc DEVIATION ANGLE OF CIRCULAR CURVE										File name BU-P&P-23 To 28 Designed by SURYA KIRAN Approved by SHIVAPRASAD Sheets 23 OF 88																		
ELEVATED HIGHWAY										Lc LENGTH OF CURVE																												
MAJOR BRIDGE, FLYOVER										Es APEX DISTANCE																												
MINOR BRIDGE										e SUPER ELEVATION																												
										V SPEED																												



LEGEND				PROFILE LEGEND				Note:				CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIVISHWANATH PLOT RAJKOT-360 001, GUJARAT
PROPOSED CENTRELINE		ROAD OVER BRIDGE		TOELINES FOR EMBANKMENT		Finished Road Level		1.Depiction of the structures in drawings is indicative only.					
PROPOSED CARRIAGEWAY		BOX, PIPE CULVERTS		TOELINES FOR CUT		Existing Road Level		2.All dimensions are in meters.					
PROPOSED SERVICE ROAD		VUP,PUP,LVUP,CUP		R		TP: Tangent points							
PROPOSED EARTHEN SHOULDER		VEHICULAR OVER PASS		Δ		CH: Chainage							
PROPOSED DRAIN		PROPOSED CHAINAGE IN METRE	45	Ls		RL: Reduced Level							
PROPOSED ROW		BEGINNING & END OF SPIRAL	BS & ES	Δs									
EXISTING ROW		BEGINNING & END OF CURVE	BC & EC	Ts									
EXISTING CARRIAGEWAY		RADIUS OF CURVE	R=500	Δc									
ELEVATED HIGHWAY		PROPOSED BRIDGE		Lc									
MAJOR BRIDGE, FLYOVER		EXISTING BRIDGE		Es									
MINOR BRIDGE		PROPOSED CULVERT		e									
		EXISTING CULVERT		V									



LEGEND

PROPOSED CENTRELINERoad over BridgeBox, Pipe CulvertsVUP, PUP, LVUP, CUPVehicular Over PassProposed Chainage in MetreBeginning & End of SpiralBeginning & End of CurveRadius of CurveProposed BridgeExisting BridgeProposed CulvertExisting Culvert

PROPOSED CARRIAGEWAY

PROPOSED SERVICE ROAD

PROPOSED EARTHEN SHOULDER

PROPOSED DRAIN

PROPOSED ROW

EXISTING ROW

EXISTING CARRIAGEWAY

ELEVATED HIGHWAY

MAJOR BRIDGE, FLYOVER

MINOR BRIDGE

TOELINES FOR EMBANKMENT

TOELINES FOR CUT

R

Δ

Δs

Ts

Δc

Lc

Es

e

V

45

BS & ES

BC & EC

R=500

PROFILE LEGEND

Finished Road Level

Existing Road Level

TP: Tangent points

CH: Chainage

RL: Reduced Level

Note:

1. Depiction of the structures in drawings is indicative only.

2. All dimensions are in meters.

3

15.04.25

Final Detailed Project Report

JTP

SM

SNV

2

06.02.25

Revised as per directions issued during meeting with SE, NORTH on 09.01.25 & 13.01.25

JTP

SM

SNV

1

10.12.24

Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24

JTP

SM

SNV

0

05.09.24

Draft Detailed Project Report

JTP

SM

SNV

No

DATE

REVISIONS

BY

CHKD

APPD

Date

21.11.2023

Drawn by

PATRICK

Checked by

SRIKANTH

Scale

HOR : 1:2500

VER : 1:250

File name

BU-P&P-23 TO 28

Designed by

SURYA KIRAN

Approved by

SHIVAPRASAD

Sheets

25 OF 88

CLIENT



NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

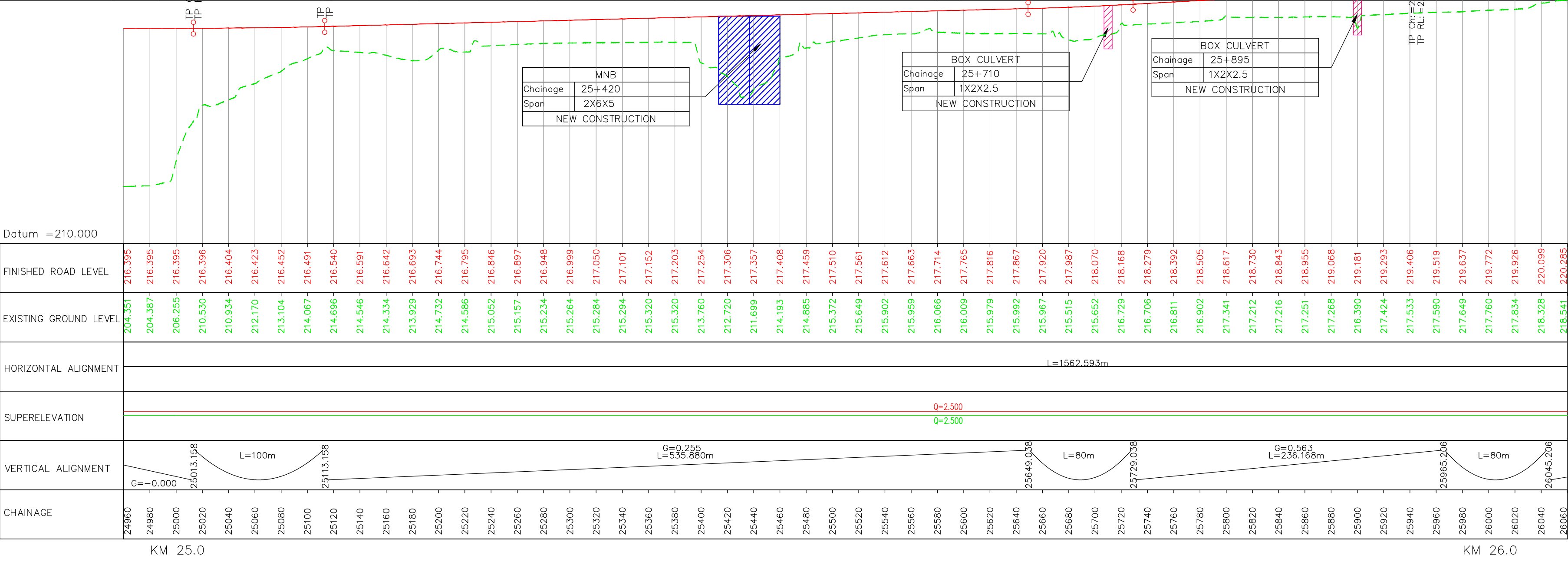
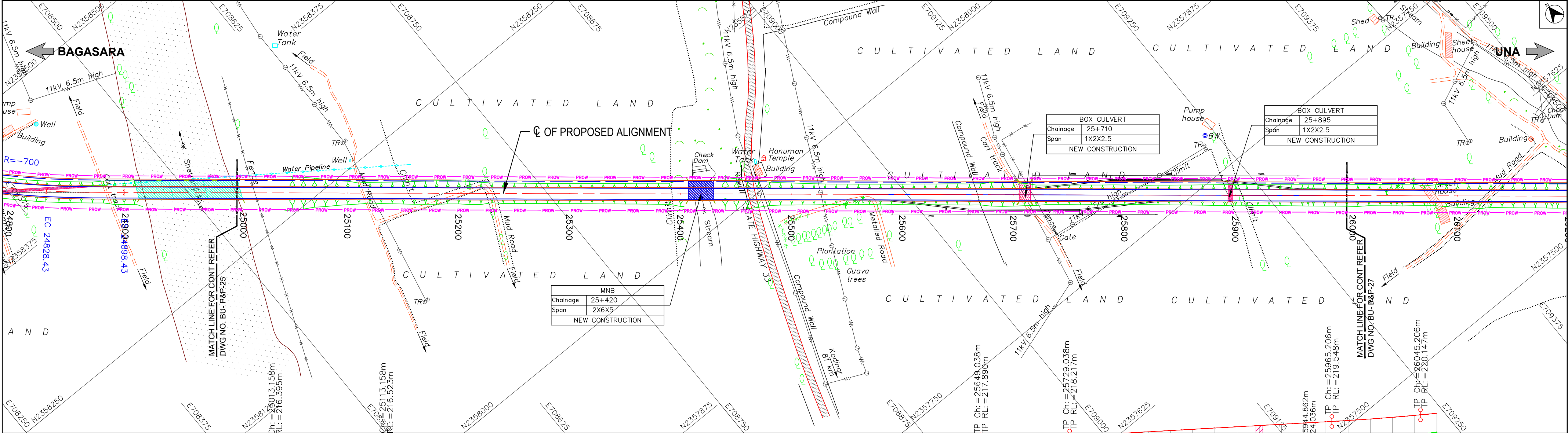


**CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT**

PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 24/000 KM TO 25/000 KM

Plot Size : (A2 Size)

DRG.NO : BU-P&P-25



LEGEND

PROPOSED CENTRELINE

PROPOSED CARRIAGEWAY

PROPOSED SERVICE ROAD

PROPOSED EARTHEN SHOULDER

PROPOSED DRAIN

PROPOSED ROW

EXISTING ROW

EXISTING CARRIAGEWAY

ELEVATED HIGHWAY

MAJOR BRIDGE, FLYOVER

MINOR BRIDGE

ROAD OVER BRIDGE

BOX, PIPE CULVERTS

VUP,PUP,LVUP,CUP

VEHICULAR OVER PASS

PROPOSED CHAINAGE IN METRE

BEGINNING & END OF SPIRAL

BEGINNING & END OF CURVE

RADIUS OF CURVE

PROPOSED BRIDGE

EXISTING BRIDGE

PROPOSED CULVERT

EXISTING CULVERT

TOELINES FOR EMBANKMENT

TOELINES FOR CUT

R RADIUS

Δ INCLUDED ANGLE

Ls TRANSITION/SPIRAL LENGTH

Δs DEVIATION ANGLE OF TRANSITION CURVE

Ts LENGTH OF TANGENT DISTANCE

Δc DEVIATION ANGLE OF CIRCULAR CURVE

Lc LENGTH OF CURVE

Es APEX DISTANCE

e SUPER ELEVATION

V SPEED

PROFILE LEGEND

Finished Road Level

Existing Road Level

TP: Tangent points

CH: Chainage

RL: Reduced Level

Note:

1.Depiction of the structures in drawings is indicative only.

2.All dimensions are in meters.

3	15.04.25	Final Detailed Project Report	JTP	SM	SNV
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0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale HOR : 1:2500 VER : 1:250	
File name	BU-P&P-23 TO 28	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 26 OF 88	

CLIENT

NATIONAL HIGHWAY DIVISION, RAJKOT

DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT

RAJKOT-360 001, GUJARAT

PROJECT

CONSULTANCY SERVICES FOR UP GRADATION OF

UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA

NATIONAL HIGHWAY IN THE STATE OF GUJARAT

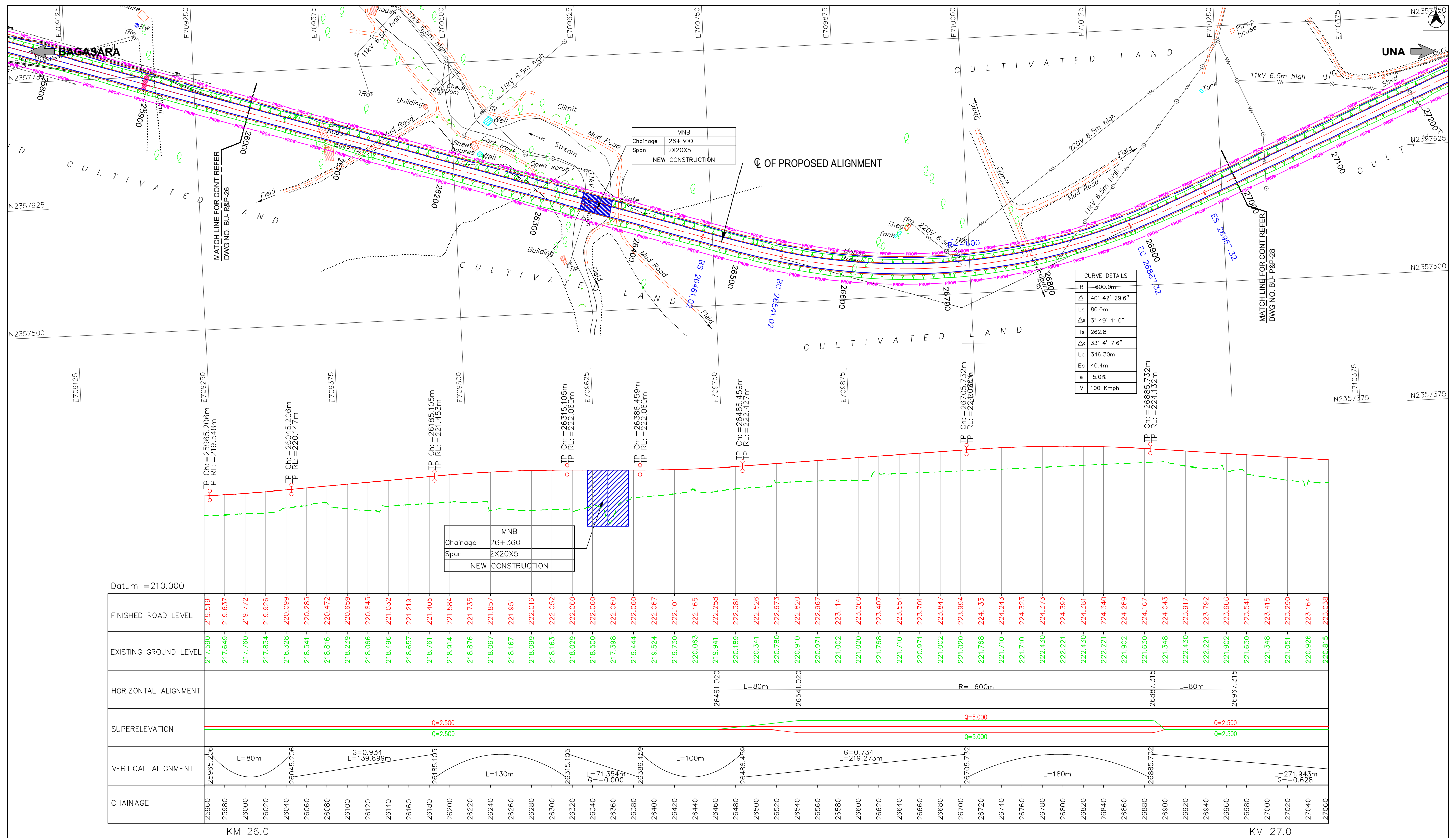
PLAN & PROFILE (NH-351K)

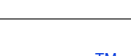
SECTION : BAGASARA TO UNA

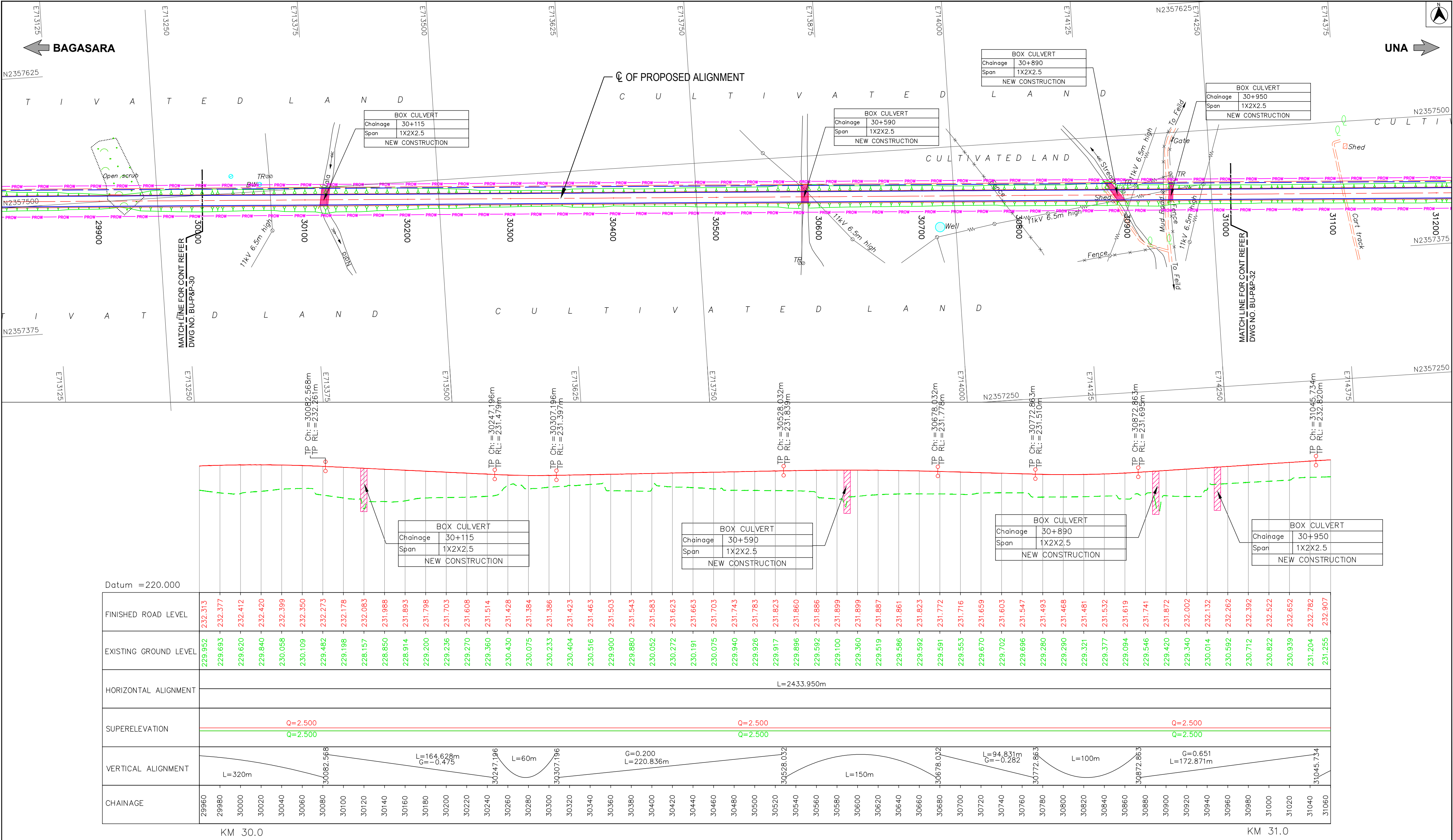
CHAINAGE : FROM 25/000 KM TO 26/000 KM

Plot Size : (A2 Size)

DRG.NO : BU-P&P-26



LEGEND					PROFILE LEGEND		Note:				CLIENT	 NATIONAL HIGHWAY DIVISION, RAJKOT DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT RAJKOT-360 001, GUJARAT		
PROPOSED CENTRELINE		ROAD OVER BRIDGE		TOELINES FOR EMBANKMENT		Finished Road Level		1.Depiction of the structures in drawings is indicative only.						
PROPOSED CARRIAGEWAY		BOX, PIPE CULVERTS		TOELINES FOR CUT		Existing Road Level		2.All dimensions are in meters.						
PROPOSED SERVICE ROAD		VUP,PUP,LVUP,CUP		R RADIUS		TP: Tangent points		3	15.04.25	Final Detailed Project Report	JTP	SM	SNV	
PROPOSED EARTHEN SHOULDER		VEHICULAR OVER PASS		△ INCLUDED ANGLE		CH: Chainage		2	06.02.25	Revised as per directions issued during meeting with SE, MORTH on 09.01.25 & 13.01.25	JTP	SM	SNV	
PROPOSED DRAIN		PROPOSED CHAINAGE IN METRE	45	Ls TRANSITION/SPIRAL LENGTH		RL: Reduced Level		1	10.12.24	Incorporating the suggestions Based on the meetings held with RO Gandhinagar & EE Rajkot on 25.09.24 & 24.10.24	JTP	SM	SNV	
PROPOSED ROW		BEGINNING & END OF SPIRAL	BS & ES	△s DEVIATION ANGLE OF TRANSITION CURVE				0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV	
EXISTING ROW		RADIUS OF CURVE	BC & EC R=500	△c DEVIATION ANGLE OF CIRCULAR CURVE				No		DATE		REVISIONS		
EXISTING CARRIAGEWAY		PROPOSED BRIDGE		Lc LENGTH OF CURVE				Date	21.11.2023	Drawn by	PATRICK	Checked by	SRIKANTH	
ELEVATED HIGHWAY		EXISTING BRIDGE		Es APEX DISTANCE				File name		Designed by	SURYA KIRAN	Approved by	SHIVAPRASAD	
MAJOR BRIDGE, FLYOVER		PROPOSED CULVERT		e SUPER ELEVATION				BU-P&P-23 TO 28		SURYA KIRAN		SHIVAPRASAD		
MINOR BRIDGE		EXISTING CULVERT		V SPEED						Sheets		27 OF 88		
												PLAN & PROFILE (NH-351K) SECTION : BAGASARA TO UNNA CHAINAGE : FROM 26/000 KM TO 27/000 KM		
												Plot Size : (A2 Size)		DRG.NO : BU-P&P-27



LEGEND

PROPOSED CENTRELINE
PROPOSED CARRIAGEWAY
PROPOSED SERVICE ROAD
PROPOSED EARTHEN SHOULDER
PROPOSED DRAIN
PROPOSED ROW
EXISTING ROW
EXISTING CARRIAGEWAY
ELEVATED HIGHWAY
MAJOR BRIDGE, FLYOVER
MINOR BRIDGE

ROAD OVER BRIDGE
BOX, PIPE CULVERTS
VUP,PUP,LVUP,CUP
VEHICULAR OVER PASS
PROPOSED CHAINAGE IN METRE
BEGINNING & END OF SPIRAL
BEGINNING & END OF CURVE
RADIUS OF CURVE
PROPOSED BRIDGE
EXISTING BRIDGE
PROPOSED CULVERT
EXISTING CULVERT

TOELINES FOR EMBANKMENT
TOELINES FOR CUT
R
△
Ls
△s
Ts
△c
Lc
Es
e
V

PROFILE LEGEND

Finished Road Level
Existing Road Level
TP: Tangent points
CH: Chainage
RL: Reduced Level

Note:
1. Depiction of the structures in drawings is indicative only.
2. All dimensions are in meters.

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0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV
No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale HOR : 1:2500 VER : 1:250	
File name	BU-P&P-29 TO 34	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 31 OF 88	

CLIENT

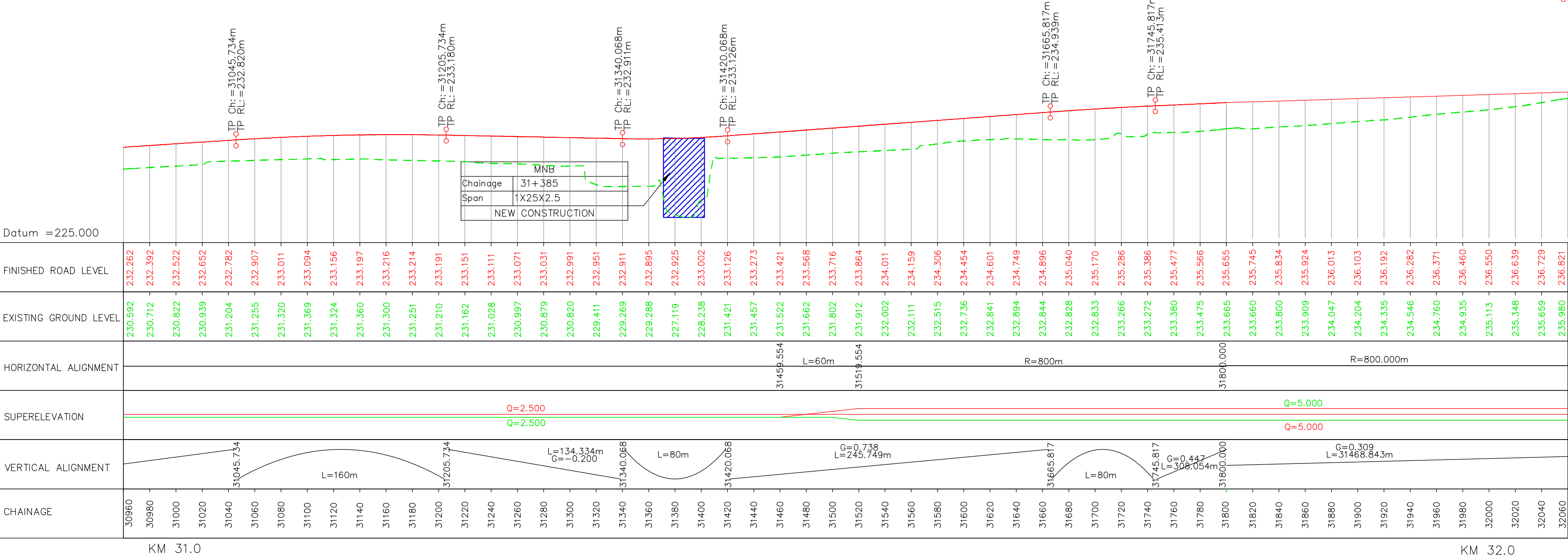
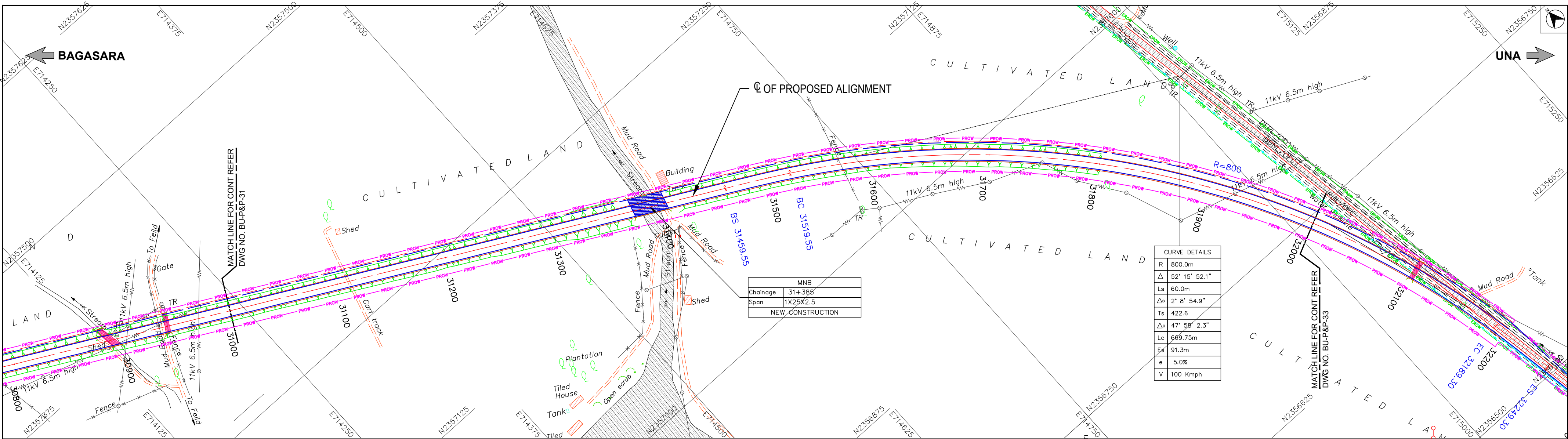
NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIASHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

**CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT**

**PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 30/000 KM TO 31/000 KM**

Plot Size : (A2 Size) DRG.NO : BU-P&P-31



LEGEND

PROPOSED CENTRELIN	---
PROPOSED CARRIAGEWAY	---
PROPOSED SERVICE ROAD	---
PROPOSED EARTHEN SHOULDER	---
PROPOSED DRAIN	---
PROPOSED ROW	---
EXISTING ROW	---
EXISTING CARRIAGEWAY	---
ELEVATED HIGHWAY	---
MAJOR BRIDGE, FLYOVER	---
MINOR BRIDGE	---

ROAD OVER BRIDGE
BOX, PIPE CULVERTS
VUP,PUP,LVUP,CUP
VEHICULAR OVER PASS
PROPOSED CHAINAGE IN METRE
BEGINNING & END OF SPIRAL
BEGINNING & END OF CURVE
RADIUS OF CURVE
PROPOSED BRIDGE
EXISTING BRIDGE
PROPOSED CULVERT
EXISTING CULVERT

TOELINES FOR EMBANKMENT
TOELINES FOR CUT
R RADIUS
Δ INCLUDED ANGLE
Ls TRANSITION/SPIRAL LENGTH
Δs DEVIATION ANGLE OF TRANSITION CURVE
Ts LENGTH OF TANGENT DISTANCE
Δc DEVIATION ANGLE OF CIRCULAR CURVE
Lc LENGTH OF CURVE
Es APEX DISTANCE
e SUPER ELEVATION
V SPEED

PROFILE LEGEND

Finished Road Level	---
Existing Road Level	---
TP: Tangent points	○
CH: Chainage	---
RL: Reduced Level	---

Note:

1.Depiction of the structures in drawings is indicative only.
2.All dimensions are in meters.

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No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale HOR :1:2500 VER :1:250	
File name	BU-P&P-29 TO 34	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 32 OF 88	

CLIENT

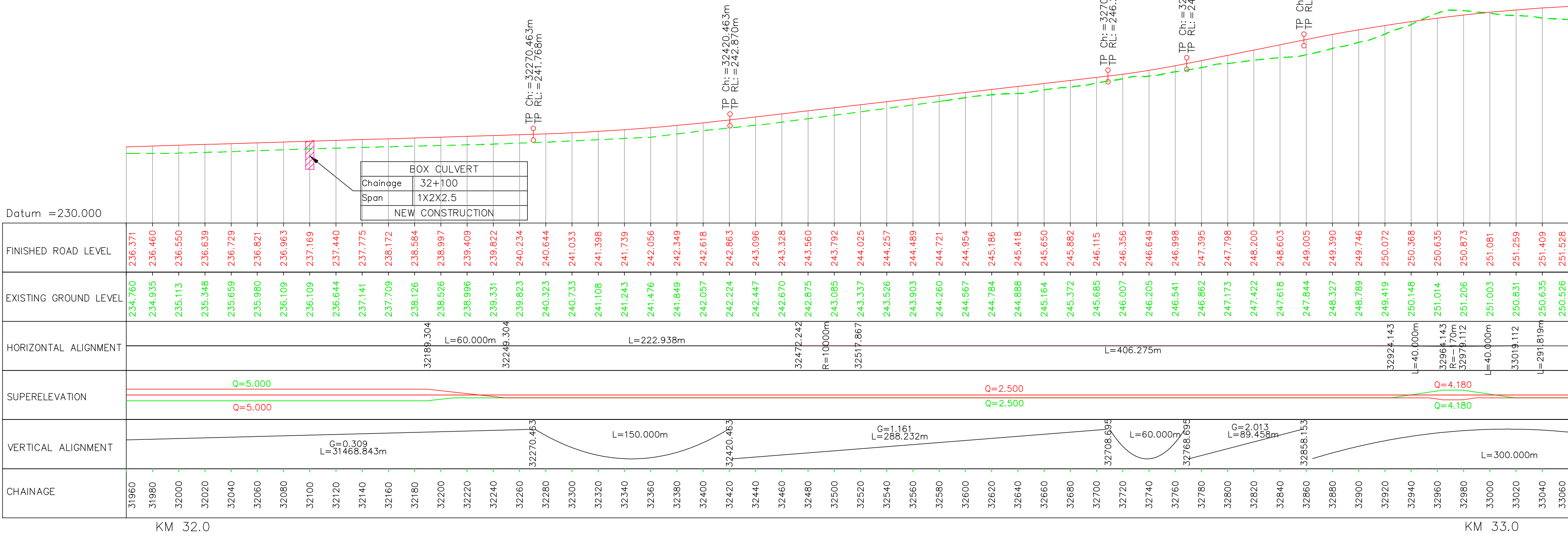
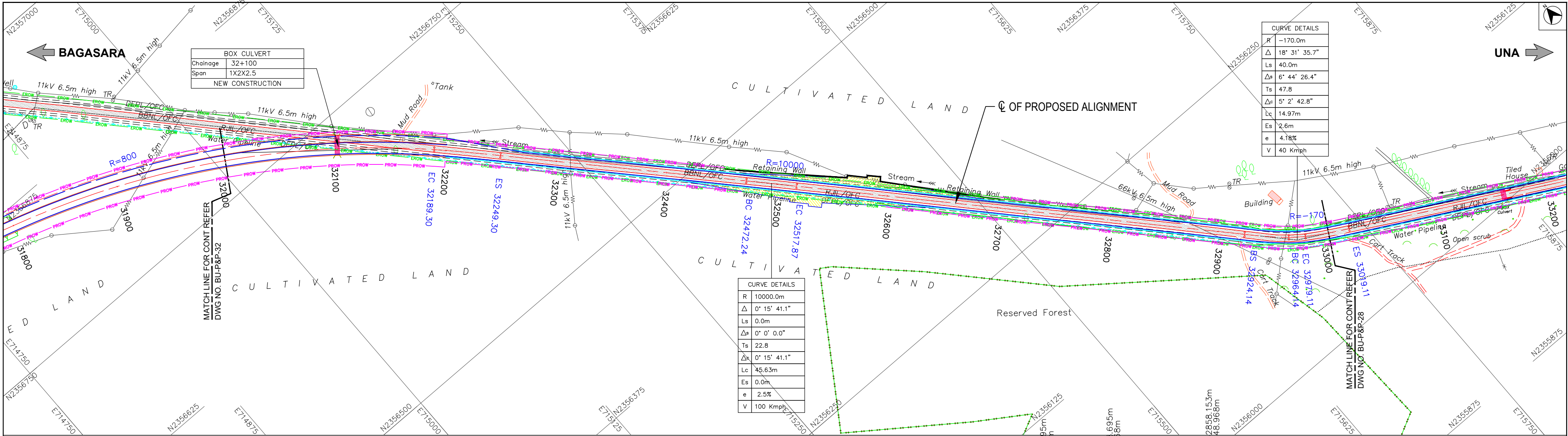
NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIVASHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT

PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 31/000 KM TO 32/000 KM

Plot Size : (A2 Size) DRG.NO : BU-P&P-32



LEGEND

PROPOSED CENTRELINE
PROPOSED CARRIAGEWAY
PROPOSED SERVICE ROAD
PROPOSED EARTHEN SHOULDER
PROPOSED DRAIN
PROPOSED ROW
EXISTING ROW
EXISTING CARRIAGEWAY
ELEVATED HIGHWAY
MAJOR BRIDGE, FLYOVER
MINOR BRIDGE

ROAD OVER BRIDGE
BOX, PIPE CULVERTS
VUP,PUP,LVUP,CUP
VEHICULAR OVER PASS
PROPOSED CHAINAGE IN METRE
BEGINNING & END OF SPIRAL
BEGINNING & END OF CURVE
RADIUS OF CURVE
PROPOSED BRIDGE
EXISTING BRIDGE
PROPOSED CULVERT
EXISTING CULVERT

TOELINES FOR EMBANKMENT
TOELINES FOR CUT
R RADIUS
Δ INCLUDED ANGLE
Ls TRANSITION/SPIRAL LENGTH
Δs DEVIATION ANGLE OF TRANSITION CURVE
Ts LENGTH OF TANGENT DISTANCE
Δc DEVIATION ANGLE OF CIRCULAR CURVE
Lc LENGTH OF CURVE
Es APEX DISTANCE
e SUPER ELEVATION
V SPEED

PROFILE LEGEND

Finished Road Level
Existing Road Level
TP: Tangent points
CH: Chainage
RL: Reduced Level

Note:
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2. All dimensions are in meters.

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0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

Date: 21.11.2023
File name: BU-P&P-29 TO 34
Drawn by: PATRICK
Designed by: SURYA KIRAN
Checked by: SRIKANTH
Approved by: SHIVAPRASAD
Scale: HOR : 1:2500
VER : 1:250
Sheets: 33 OF 88

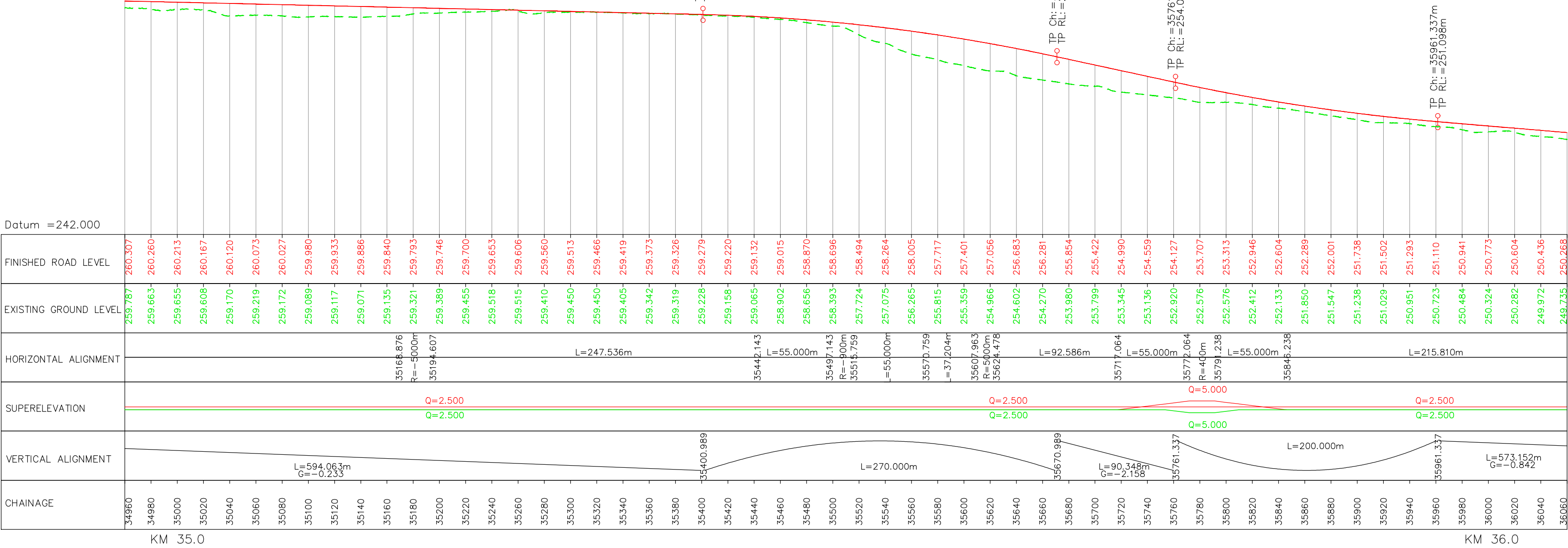
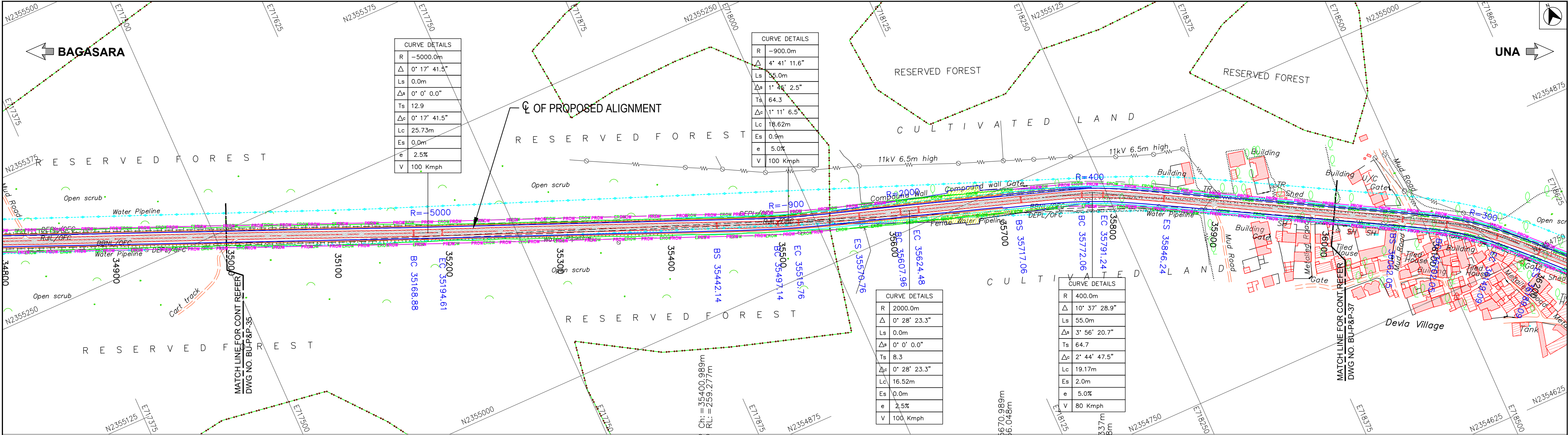
CLIENT
PROJECT

NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIASHWATH PLOT
RAJKOT-360 001, GUJARAT

CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT

PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 32/000 KM TO 33/000 KM

Plot Size : (A2 Size)
DRG.NO : BU-P&P-33



LEGEND

PROPOSED CENTRELINE

PROPOSED CARRIAGEWAY

PROPOSED SERVICE ROAD

PROPOSED EARTHEN SHOULDER

PROPOSED DRAIN

PROPOSED ROW

EXISTING ROW

EXISTING CARRIAGEWAY

ELEVATED HIGHWAY

MAJOR BRIDGE, FLYOVER

MINOR BRIDGE

ROAD OVER BRIDGE

BOX, PIPE CULVERTS

VUP,PUP,LVUP,CUP

VEHICULAR OVER PASS

PROPOSED CHAINAGE IN METRE

BEGINNING & END OF SPIRAL

BEGINNING & END OF CURVE

RADIUS OF CURVE

PROPOSED BRIDGE

EXISTING BRIDGE

PROPOSED CULVERT

EXISTING CULVERT

TOELINES FOR EMBANKMENT

TOELINES FOR CUT

R RADIUS

Δ INCLUDED ANGLE

Ls TRANSITION/SPIRAL LENGTH

Δs DEVIATION ANGLE OF TRANSITION CURVE

Ts LENGTH OF TANGENT DISTANCE

Δc DEVIATION ANGLE OF CIRCULAR CURVE

Lc LENGTH OF CURVE

Es APEX DISTANCE

e SUPER ELEVATION

V SPEED

PROFILE LEGEND

Finished Road Level

Existing Road Level

TP: Tangent points

CH: Chainage

RL: Reduced Level

Note:

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0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

No	DATE	REVISIONS	BY	CHKD	APPD
Date	21.11.2023	Drawn by PATRICK	Checked by SRIKANTH	Scale HOR :1:2500 VER :1:250	
File name	BU-P&P-35 TO 40	Designed by SURYA KIRAN	Approved by SHIVAPRASAD	Sheets 36 OF 88	

CLIENT

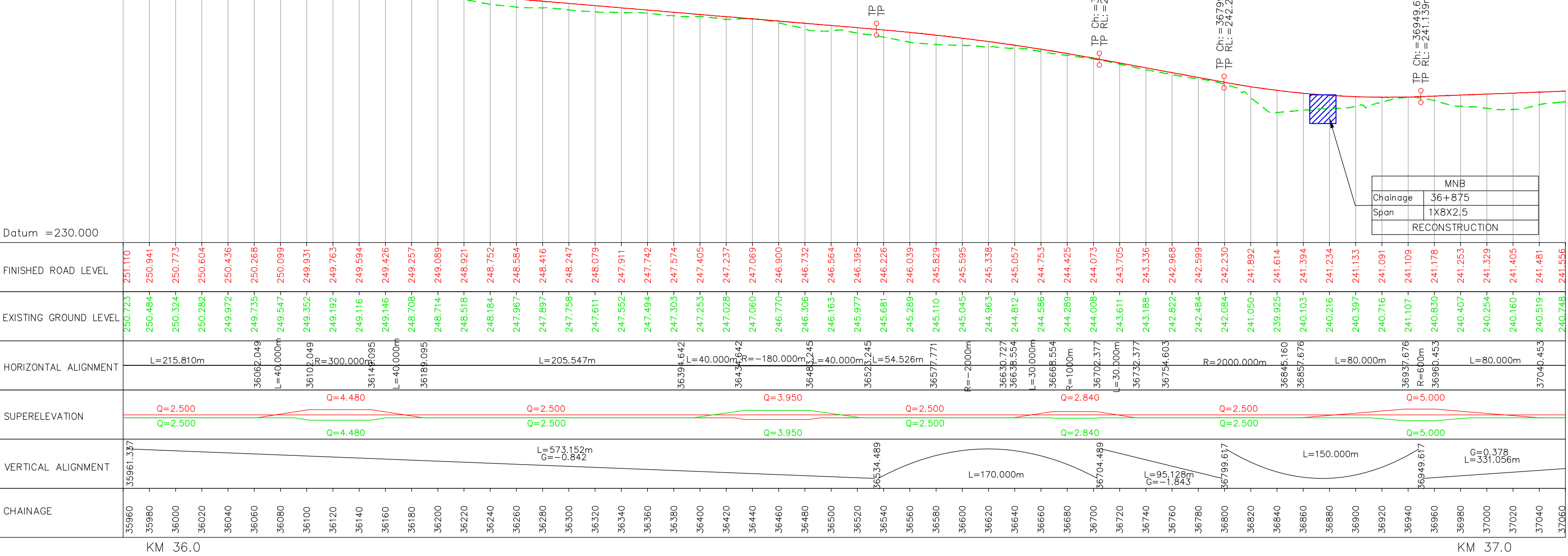
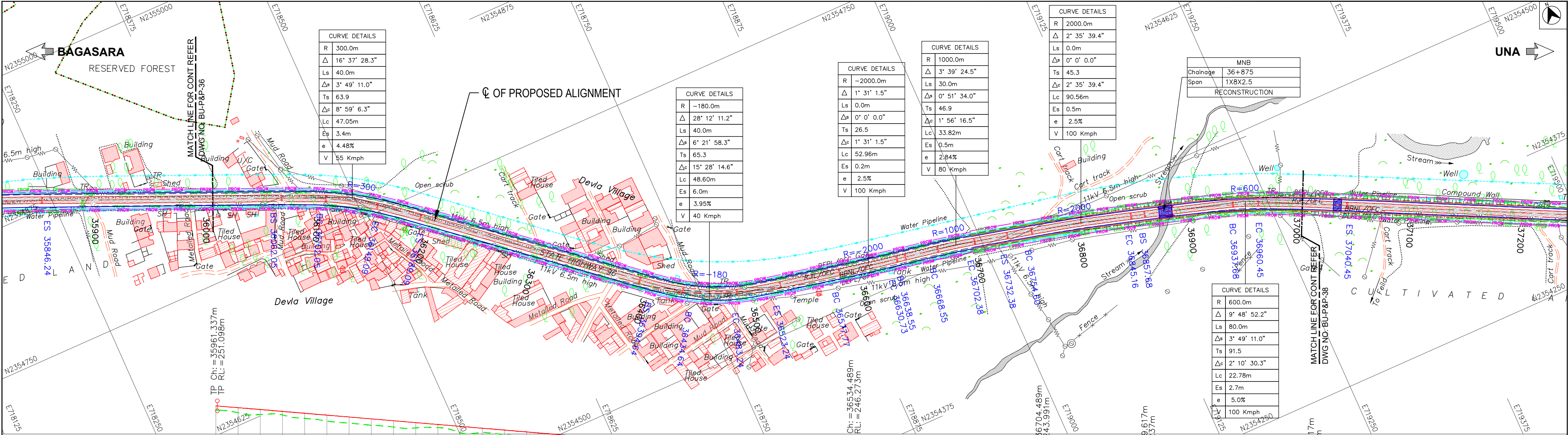
NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT

PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 35/000 KM TO 36/000 KM

Plot Size : (A2 Size) DRG.NO : BU-P&P-36



LEGEND

PROPOSED CENTRELINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED SERVICE ROAD	---
PROPOSED EARTHEN SHOULDER	---
PROPOSED DRAIN	---
PROPOSED ROW	---
EXISTING ROW	---
EXISTING CARRIAGEWAY	---
ELEVATED HIGHWAY	---
MAJOR BRIDGE, FLYOVER	---
MINOR BRIDGE	---

ROAD OVER BRIDGE	---
BOX, PIPE CULVERTS	---
VUP, PUP, LVUP, CUP	---
VEHICULAR OVER PASS	---
PROPOSED CHAINAGE IN METRE	---
BEGINNING & END OF SPIRAL	---
BEGINNING & END OF CURVE	---
RADIUS OF CURVE	---
PROPOSED BRIDGE	---
EXISTING BRIDGE	---
PROPOSED CULVERT	---
EXISTING CULVERT	---

TOELINES FOR EMBANKMENT	---
TOELINES FOR CUT	---
R RADIUS	---
Δ INCLUDED ANGLE	---
Ls TRANSITION/SPIRAL LENGTH	---
Δs DEVIATION ANGLE OF TRANSITION CURVE	---
Ts LENGTH OF TANGENT DISTANCE	---
Δc DEVIATION ANGLE OF CIRCULAR CURVE	---
Lc LENGTH OF CURVE	---
Es APEX DISTANCE	---
e SUPER ELEVATION	---
V SPEED	---

PROFILE LEGEND

Finished Road Level	---
Existing Road Level	---
TP: Tangent points	---
CH: Chainage	---
RL: Reduced Level	---

Note:

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2. All dimensions are in meters.

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0	05.09.24	Draft Detailed Project Report	JTP	SM	SNV

No	DATE	REVISIONS	BY	CHKD	APPD
21.11.2023		Drawn by PATRICK	Checked by SRIKANTH		
File name		Designed by SURYA KIRAN	Approved by SHIVAPRASAD		
BU-P&P-35 TO 40					

Date	21.11.2023	Scale	HOR : 1:2500 VER : 1:250
File name	BU-P&P-35 TO 40	Drawn by	PATRICK
		Checked by	SRIKANTH
		Approved by	SHIVAPRASAD
		Sheets	37 OF 88

CLIENT

NATIONAL HIGHWAY DIVISION, RAJKOT
DR. RAJENDRA PRASAD ROAD, KASHIWISHWANATH PLOT
RAJKOT-360 001, GUJARAT

PROJECT

**CONSULTANCY SERVICES FOR UP GRADATION OF
UNA - DHARI - BAGASARA - AMRELI - BABRA - JASDAN - CHOTILA
NATIONAL HIGHWAY IN THE STATE OF GUJARAT**

**PLAN & PROFILE (NH-351K)
SECTION : BAGASARA TO UNA
CHAINAGE : FROM 36/000 KM TO 37/000 KM**

Plot Size : (A2 Size) DRG.NO : BU-P&P-37