



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority Of India
(Ministry Of Road Transport & Highways Government Of India)



DPR for Development of 6-lane access controlled Spur to Haridwar from Delhi-Sharanpur-Dehradun Economic Corridor in the state of Uttar Pradesh and Uttarakhand under Bharatmala Pariyojana

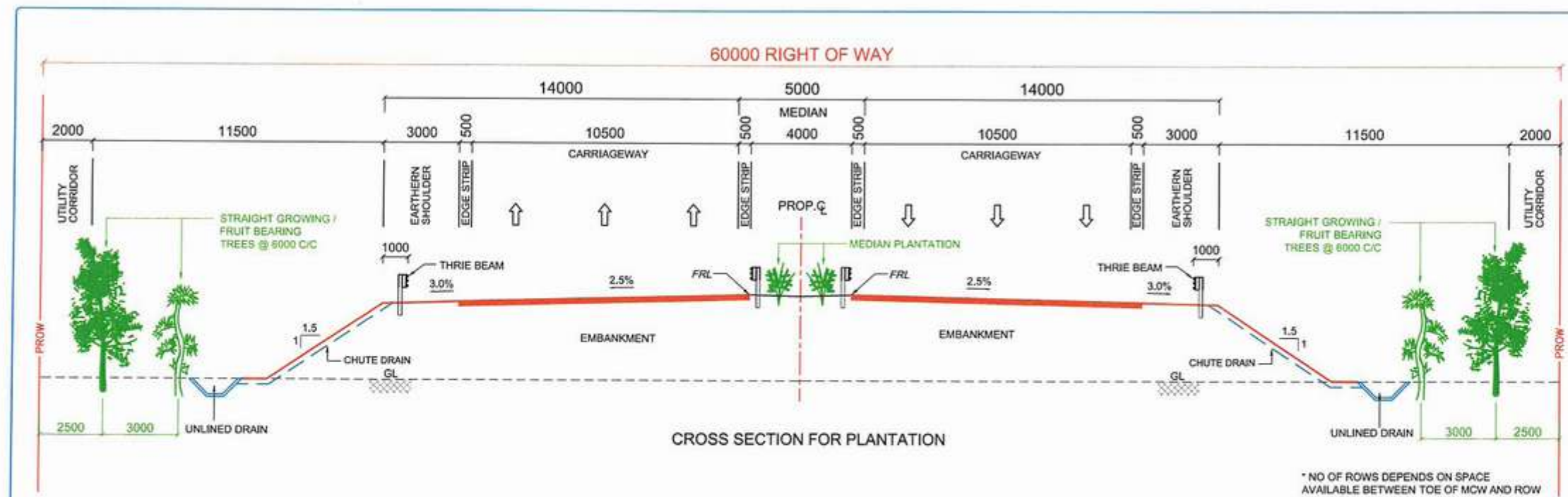


MEDIAN & AVENUE PLANTATION
CH. 0+000 to CH. 19+070

September 2022

Transys Consulting Pvt. Ltd.
In association with
Accrete Consulting Engineers (P) Ltd. ACE

12th Floor, JMD Regent Square, M.G. Road, Gurugram –
122002, Haryana; Phone : +91-124-4195950,
email: info@transysconsulting.co.in; Web: www.transys.in



Requirement of trees for Avenue Plantation										Remarks
Sl. No.	Chainage	From	To	Length (m)	Side	Spacing	Avenue Plantation No. of ROW	Size	Total	
1	0	180	180	180	LHS	6	1	30	30	
2	180	380	380	200	RHS	6	2	33	67	
3	380	400	400	20	RHS	6	3	3	10	
4	400	510	510	110	RHS	6	2	18	37	
5	510	550	550	40	RHS	6	3	7	20	
6	550	630	630	80	RHS	6	2	13	27	
7	630	740	740	110	RHS	6	2	13	27	
8	740	950	950	210	RHS	6	2	17	33	
9	950	1450	1450	500	RHS	6	1	23	23	
10	1450	1520	1520	70	RHS	6	2	12	23	
11	1520	1930	1930	410	RHS	6	2	85	130	
12	1930	2200	2200	270	RHS	6	3	52	155	
13	2200	4240	4240	2040	RHS	6	2	297	593	
14	4240	4800	4800	560	RHS	6	3	93	290	
15	4800	5470	5470	670	RHS	6	3	145	290	
16	5470	5930	5930	460	RHS	6	2	73	147	
17	5930	6020	6020	90	RHS	6	3	15	45	
18	6020	6250	6250	230	RHS	6	2	38	77	
19	6250	6400	6400	150	RHS	6	2	22	43	
20	6400	7170	7170	770	RHS	6	2	127	253	
21	7170	7190	7190	20	LHS	6	1	3	3	
22	7190	7530	7530	340	RHS	6	2	38	77	
23	7530	7640	7640	110	RHS	6	4	12	47	
24	7640	7930	7930	290	RHS	6	3	48	97	
25	7930	8220	8220	290	RHS	6	4	13	53	
26	8220	8300	8300	80	RHS	6	4	10	45	
27	8300	8300	8300	0	RHS	6	4	10	45	
28	8300	8780	8780	480	RHS	6	2	10	20	
29	8780	8940	8940	160	RHS	6	4	27	107	
30	8940	9000	9000	60	RHS	6	3	15	30	
31	9000	9420	9420	420	RHS	6	2	70	140	
32	9420	9850	9850	430	RHS	6	3	72	215	
33	9850	11250	11250	1400	RHS	6	2	233	467	
34	11250	11310	11310	60	RHS	6	1	10	10	
35	11310	11320	11320	10	LHS	6	1	8	8	
36	11320	12500	12500	1180	RHS	6	2	197	203	
37	12500	14090	14090	1590	RHS	6	2	252	523	
38	14090	14220	14220	130	RHS	6	1	22	22	
39	14220	15120	15120	900	RHS	6	2	112	223	
40	15120	15570	15570	450	RHS	6	4	87	267	
41	15570	15570	15570	0	RHS	6	4	87	267	
42	15570	15690	15690	120	RHS	6	2	15	30	
43	15690	15690	15690	0	RHS	6	1	2	2	
44	15690	15700	15700	10	RHS	6	2	5	10	
45	15700	15700	15700	0	RHS	6	3	10	30	
46	15700	15800	15800	100	RHS	6	4	38	153	
47	15800	16000	16000	200	RHS	6	3	12	35	
48	16000	16600	16600	600	RHS	6	2	88	197	
49	16600	16670	16670	70	RHS	6	1	3	3	
50	16670	16690	16690	20	RHS	6	2	3	7	
51	16690	16730	16730	40	LHS	6	1	7	7	
52	16730	17020	17020	290	RHS	6	2	48	97	
53	17020	17060	17060	40	RHS	6	3	12	35	
54	17060	17440	17440	380	RHS	6	4	58	233	
55	17440	17470	17470	30	RHS	6	3	5	15	
56	17470	18090	18090	620	RHS	6	2	102	203	
57	18090	18130	18130	40	RHS	6	3	8	25	
58	18130	18500	18500	370	RHS	6	2	12	23	
59	18500	19000	19000	500	RHS	6	2	128	257	
Total									6486	

Requirement of trees for Median Plantation (4m Median)									
Sl. No.	Chainage	From	To	Length (m)	Side	Spacing	Median Plantation No. of ROW	Size	Total
60	450	780	780	330	RHS	3	2	103	207
61	840	1470	1470	630	RHS	3	2	210	420
62	1580	7520	5930	5930	RHS	3	2	1977	3563
63	7575	8000	425	425	RHS	3	2	142	283
64	8075	19070	11000	11000	RHS	3	2	3667	7333
Total									12197

- NOTES:**
- A) MEDIAN PLANTATION**
- TWO ROWS OF PLANTATION TO BE DONE IN THE 4M WIDE MEDIAN IN STAGGERED MANNER WITH LONGITUDINAL SPACING OF 1.5M. IN SUPERELEVATED SECTION ONE ROW OF PLANTATION TO BE DONE
 - THE SIZE OF PITS FOR MEDIAN PLANTATION SHALL BE 600X600X600MM AND THE CENTER OF PIT SHALL BE 1.5M DISTANCE FROM THE FACE OF MEDIAN KERB. COMPOST AND MANURE SHALL BE USED UP TO 1/3RD VOLUME OF PIT MIXED WITH SOIL AND REFILLED.
 - THE SPECIES TO BE PLANTED IN THE MEDIAN PORTION ARE AS FOLLOWS:
 - WHITE COLOUR FLOWERING SHRUBS: STAR JASMINE, ALBANIA, BAHUNIA, MANOKAMNI, CHANDANI.
 - YELLOW COLOUR FLOWERING SHRUBS: TIKOMA, ACASIA ALATA, ACASIA, LAVIGATA, PEACOCK FLOWER.
 - RED COLOUR FLOWERING SHRUBS: HIBISCUS, CRIMSON BOTTLE BRUSH, BOUGAINVILLEA GLABRA, FAMILAPATENS EXOR
 - BLUE COLOUR FLOWERING SHRUBS: DURANTA ERECTA, PURPLE LAKE, RODOODRON
- B) AVENUE PLANTATION**
- THE NUMBER OF ROWS OF AVENUE PLANTATION SHALL BE TWO ROWS ON EITHER SIDE.
 - THE SPECIES OF PLANT SHALL BE PLANTED IN ROW WISE AS FOLLOWS:
 - THE FRUIT BEARING TREES/ ENVIRONMENT FRIENDLY TREES IN 1st ROW LIKE NEEM, PAKER, IMLI, BARGAD, CHROSIA SPICIOSA, SHISHAM, MANGO, PIPAL ETC.
 - SPECIES OF STRAIGHT GROWING TREES IN 2nd ROW LIKE KATANG BAMBOO, CASSIA FISTULA, ITABEBUIA ROSEA, ARJUN, KACHNAR GULMORH, JAMUN, AMALTAS, TECOMA CAPENSIS, BBOTTLE BRUSH ETC.
 - THE SIZE OF PITS SHALL BE 600X600X600MM FOR ALL TYPE OF PLANTS. COMPOST AND MANURE SHALL BE USED UP TO 1/3RD VOLUME OF PIT MIXED WITH SOIL AND REFILLED.
 - TYPES OF SPECIES HAVING MORE LIFE SPAN SHALL BE PLANTED AS PER IRC:SP21-2009 & SUITABLE FOR TEMPERATURE AND SUB-TROPICAL AREA.
 - ALL DIMENSIONS ARE IN MM

REV.	DATE	DESCRIPTION
RO	01-09-2022	FINAL DETAILED PROJECT REPORT

Authority:	प्रदीप सिंह गुसाई/Pradeep Singh Gussai
Project:	Spur to Haridwar from Delhi-Dehradun Greenfield Project
Drawn By:	SUMAN
Designed By:	SANDEEP
Checked By:	KSN REDDY
Approved By:	BHUPENDER

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Designed By:	SANDEEP
Checked By:	KSN REDDY
Approved By:	BHUPENDER

LEGEND :

PLAN :

EXISTING

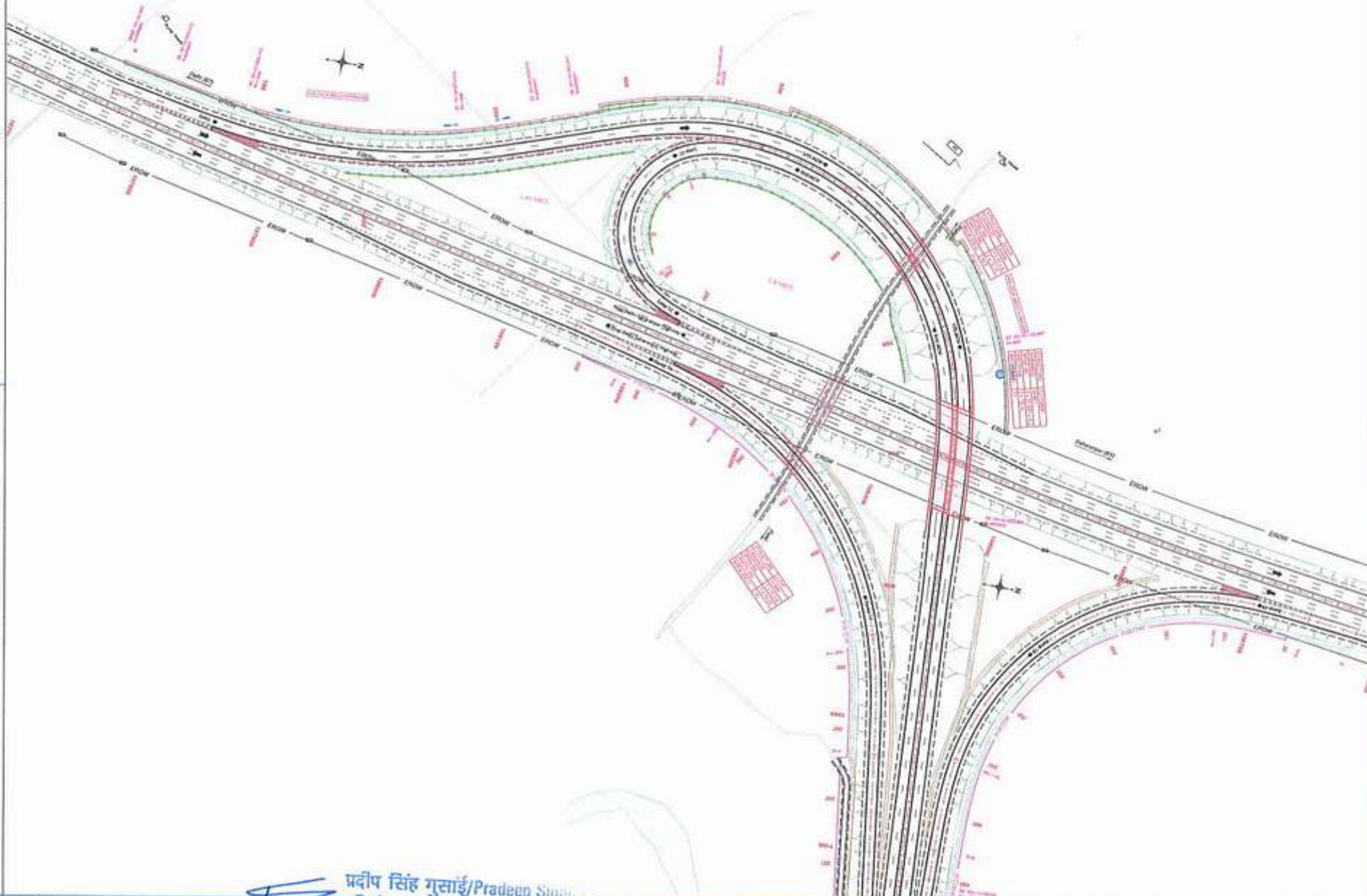
- Exist. Road
- SP-R : Semi Pucca Resl.
- SP-C : Semi Pucca Comm.
- P-R : Pucca Residential
- P-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

- Tee Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Tee Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION	Authority	Project	Drawn By	Checked By	Approved By	Scale	Sheet No.	Project Name	Project Location	Project Status
RD	01-09-2022	FINAL DETAILED PROJECT REPORT	National Highways Authority of India (Ministry of Road Transport & Highways)	Spur to Haridwar from Delhi-Bahadun Greenfield Project Development of 4-lane access controlled spur to Haridwar from Delhi-Bahadun-Ghaziabad Economic Corridor in the state of Uttar Pradesh and Uttarakhand under Bharatmala Pariyojana	SUMAN	SANDEEP	KAN REDDY	SHUPENDER	A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-01	R0

LEGEND :

PLAN :

EXISTING

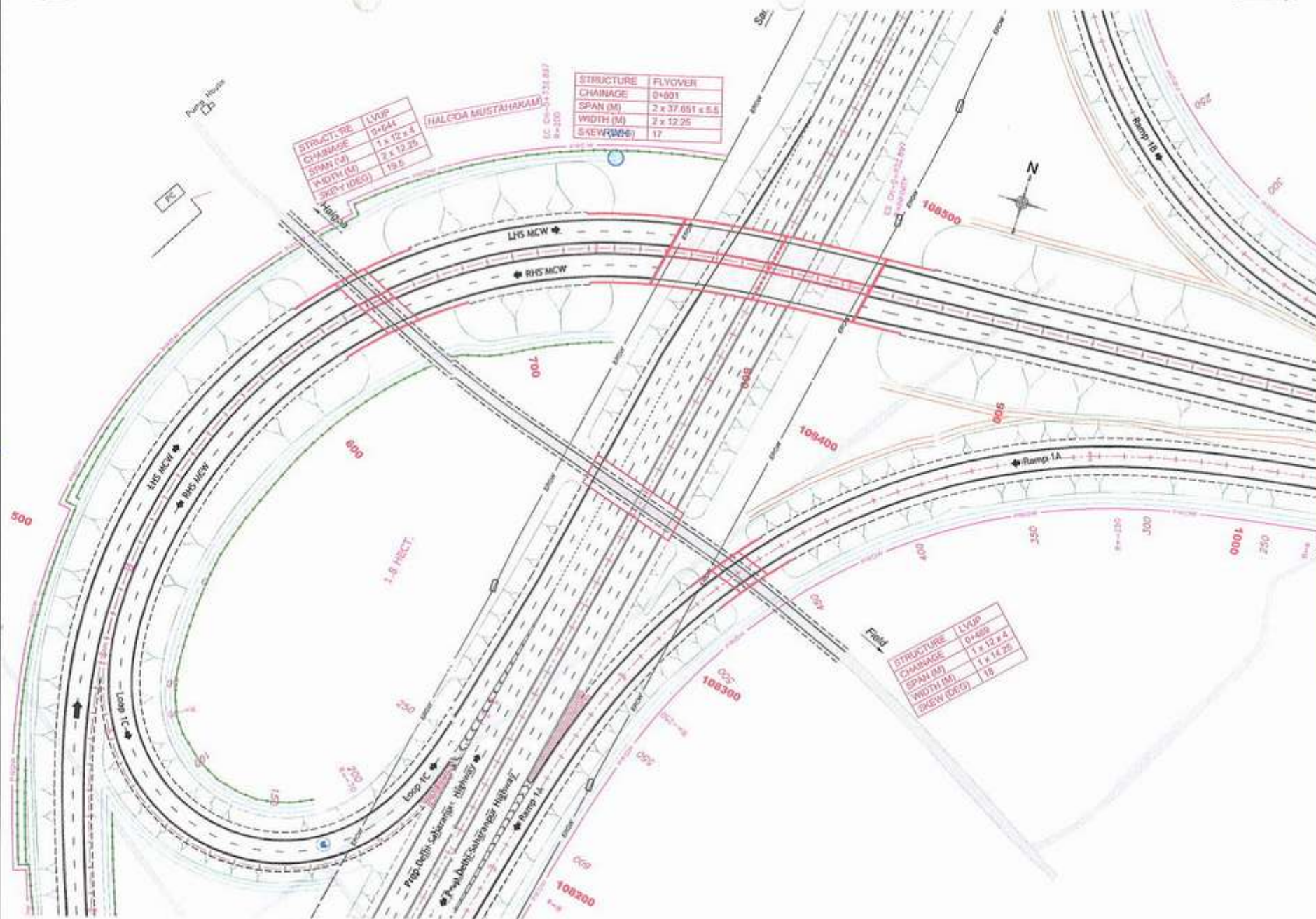
- Exist. Road
- SP-R : Semi Pucca Resil.
- SP-C : Semi Pucca Conmt.
- P-R : Pucca Residential
- P-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EBOW : Existing RoW
- PROW : Proposed RoW

PROPOSED

- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Unsed Drain
- Unsed Drain
- TDE / RE WALL
- PLANTATION

Delhi

Haridwar



LEGEND :

PLAN :

EXISTING

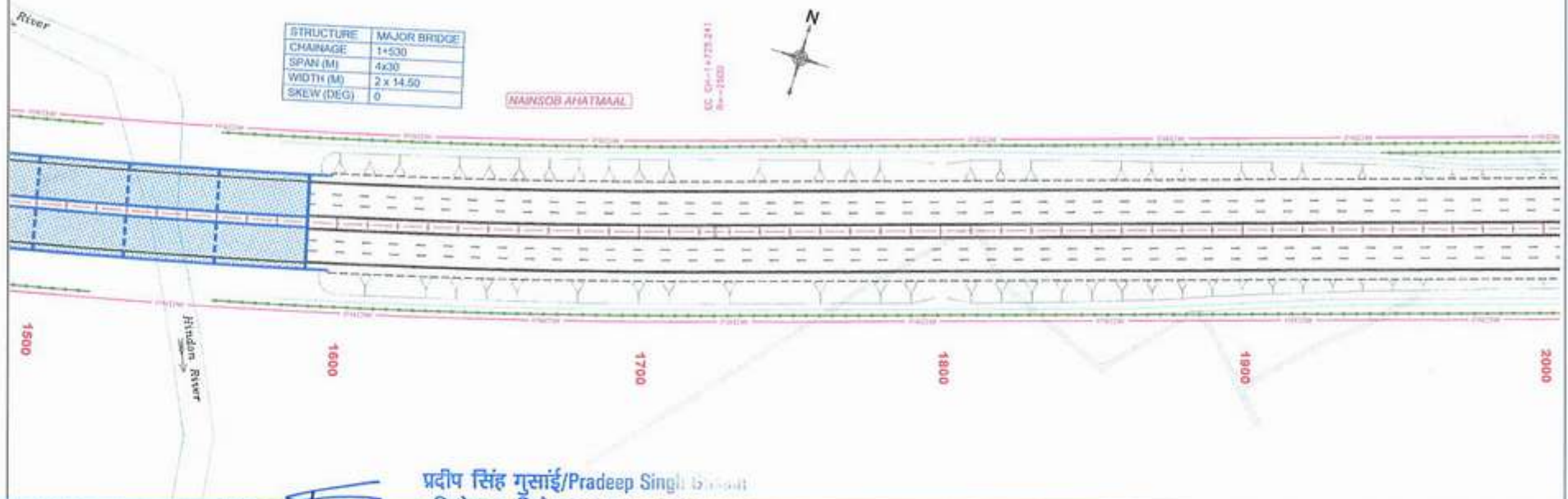
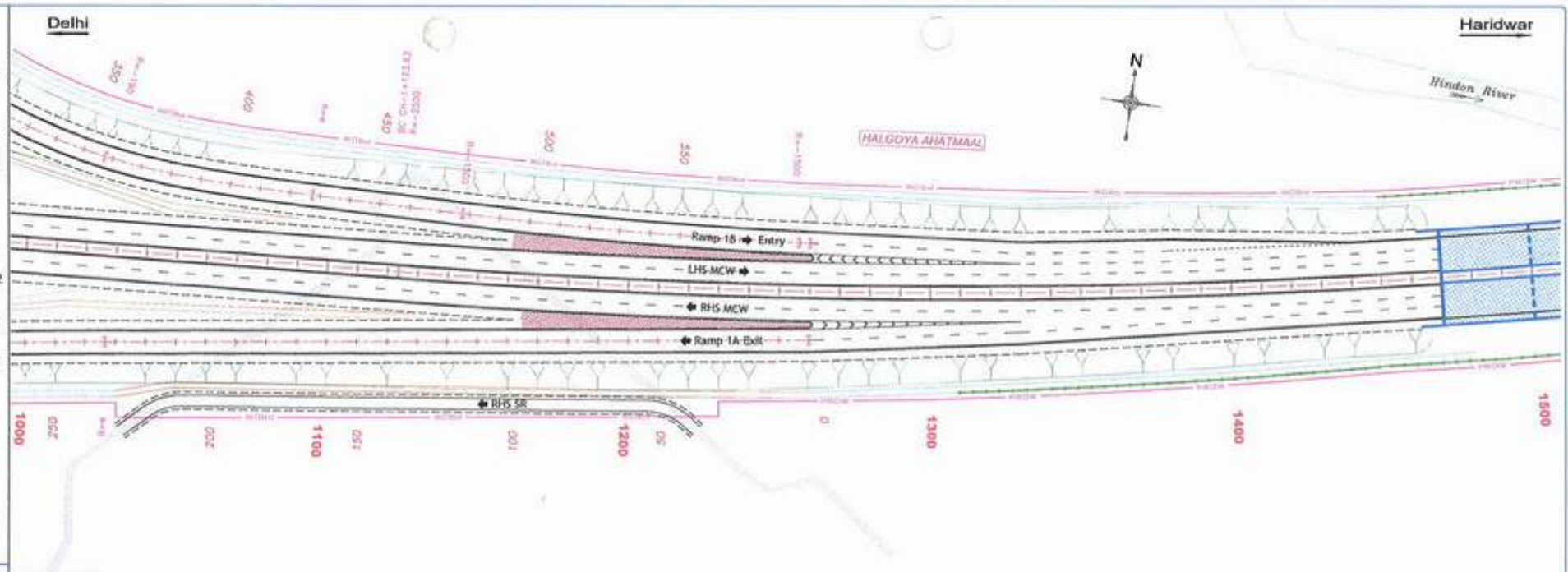
- Exist. Road
- SP-R : Semi Pucca Resl.
- SP-C : Semi Pucca Comm.
- PC-B : Pucca Residential
- PC-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PRGW : Proposed RoW

PROPOSED

- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TDE / RE WALL
- PLANTATION

Delhi

Haridwar



STRUCTURE	MAJOR BRIDGE
CHAINAGE	1+500
SPAN (M)	4x30
WIDTH (M)	2 x 14.50
SKEW (DEG)	0

REV.	DATE	DESCRIPTION
R0	01-09-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुसाई/Pradeep Singh Gusai
परियोजना निदेशक / Project Director
सार्वजनिक नदीय प्रदीप
National Highway Development Project
पीआईएच/पीएच/पीएच/पीएच

Spur to Haridwar from Delhi-Dehradun Greenfield Project
Development of 4-lane access controlled Spur to Haridwar from
Delhi-Dehradun Economic Corridor in the state of Uttar Pradesh and
Uttarakhand under Bharatmala Pariyojana

DRAWN BY	SUMAN
DESIGNED BY	SANDEEP
CHECKED BY	KEN REDDY
APPROVED BY	SHRIPENDER

FINAL
DETAILED
PROJECT
REPORT

Title: Median & Avenue Plantation (Ch. 1+000 to Ch. 2+000)			
Size	Scale	Draw No	Rev
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-04	R0

LEGEND :

PLAN :

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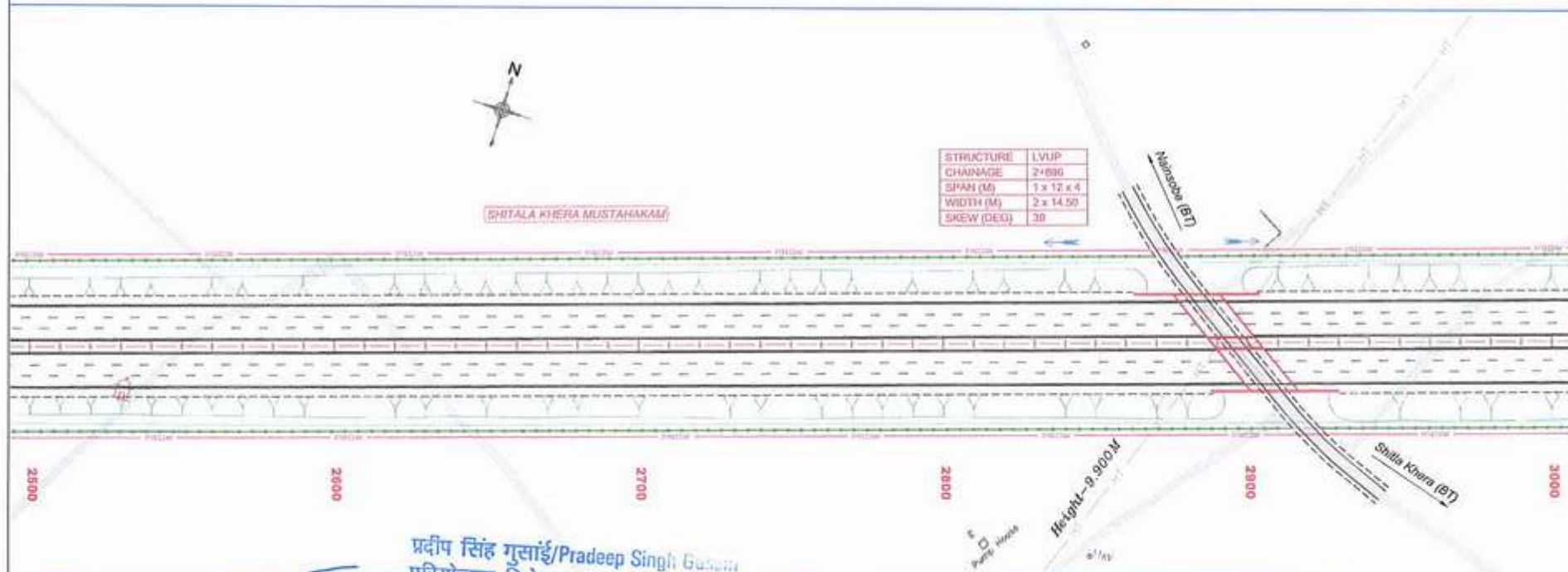
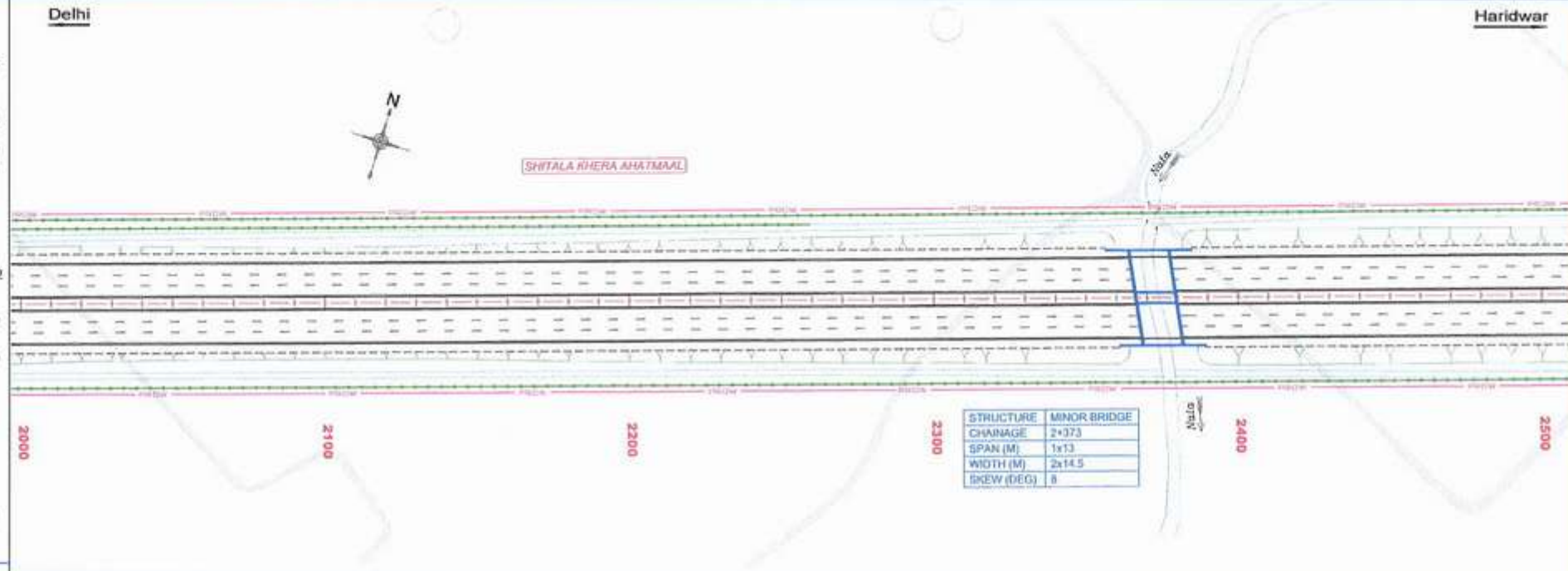
- Exist. Road
- [SP-R] : Semi Pucca Resl.
- [SP-C] : Semi Pucca Comm.
- [P-R] : Pucca Residential
- [P-C] : Pucca Commercial
- [K-R] : Katcha Residential
- [HUT] : Hut
- [Paddy Field]
- [Boundary Wall]
- [Fencing]
- [EROW] : Existing RoW
- [PROW] : Proposed RoW

PROPOSED

- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TDE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION	Authority	Project	Drawn By	Checked By	Approved By	Final Detailed Project Report	Scale	Sheet No.	Page No.
RS	01-09-2022	FINAL DETAILED PROJECT REPORT	National Highways Authority of India	Spur to Haridwar from Delhi-Delhradun Greenfield Project	SUMAN	SANDEEP	SHUPENDER	FINAL DETAILED PROJECT REPORT	A2	HOR-1:5000	HARIDWAR-SPUR-PLANTATION-05

LEGEND :

PLAN :

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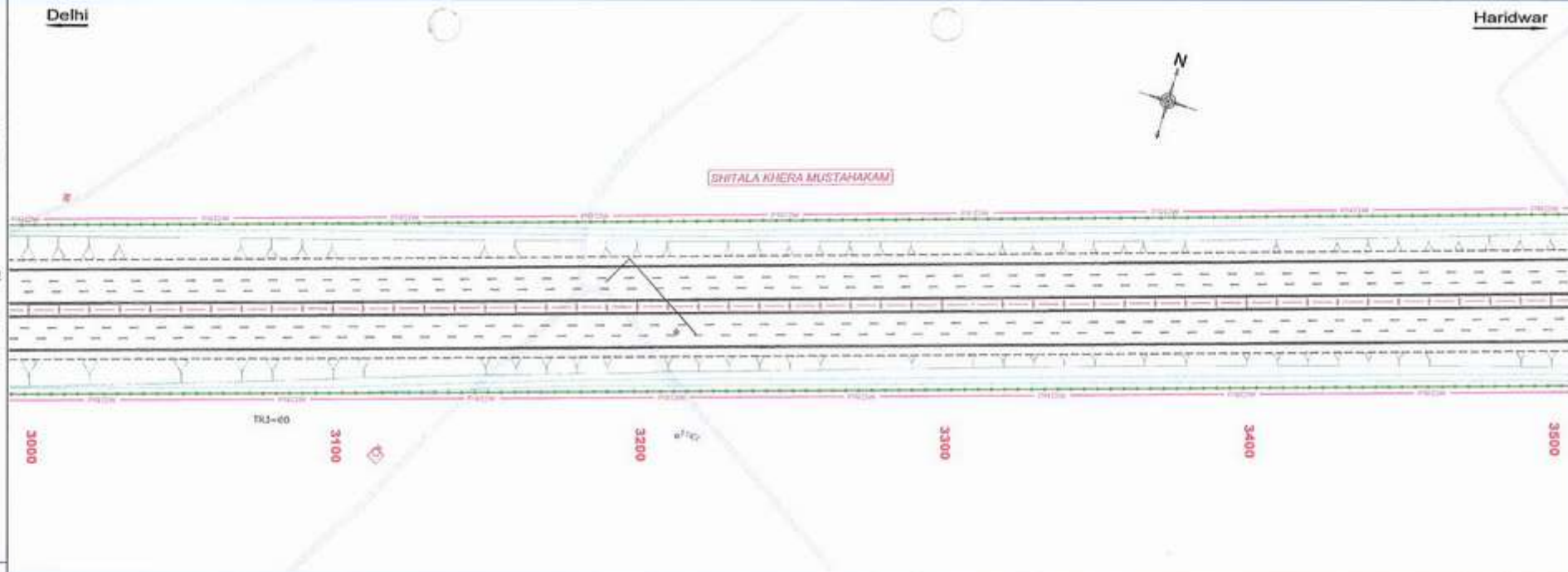
- EXIST. Road
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- [HUT] : Hut
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PROPOSED

- Toe Line
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- Unlined Drain
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- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION
RO	01-09-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुप्ता / Pradeep Singh Gupta
परियोजना निदेशक / Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पीआईएचए - रुड़की / PIU-Roorkee

Spur to Haridwar from Delhi-Dehradun Greenfield Project
Development of 4-lane access controlled Spur to Haridwar from
Delhi-Saharanpur-Dehradun Economic Corridor in the state of Uttar Pradesh and
Bihar under Bharatmala Pariyojana

DRAWN BY: SUMAN
DESIGNED BY: SANDEEP
CHECKED BY: KSN REDDY
APPROVED BY: BHUPENDER

FINAL
DETAILED
PROJECT
REPORT

Title: Median & Avenue Plantation		(Ch. 3+000 to Ch. 4+000)	
Size	Scale	Draw No	Rev
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-06	RO

LEGEND :

PLAN :

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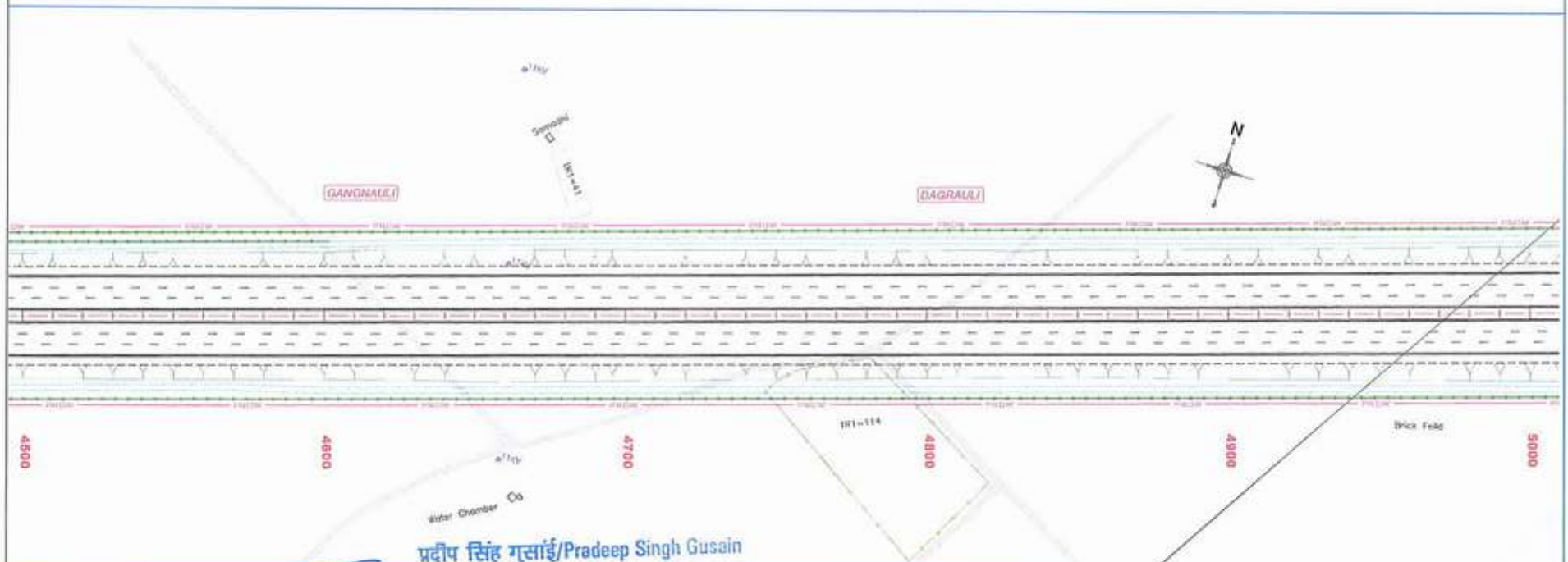
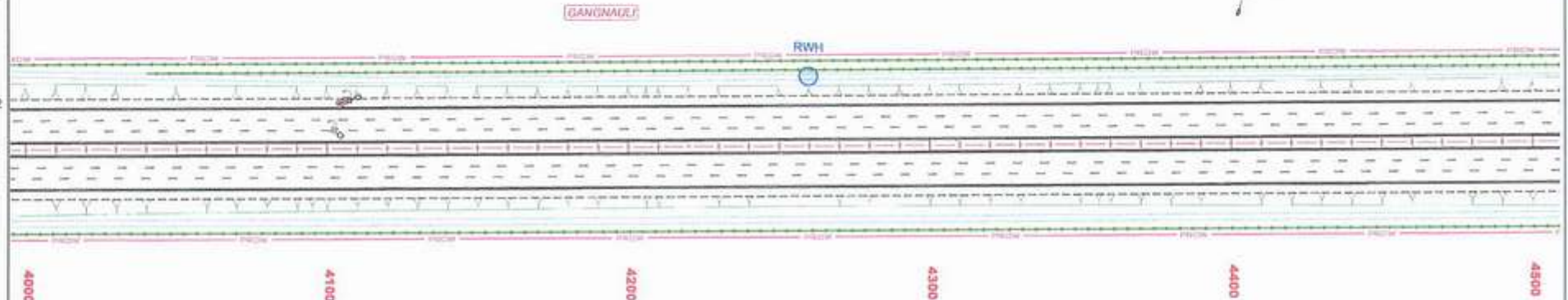
- Exist. Road
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- [P-C] : Pucca Commercial
- [K-R] : Katcha Residential
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- PRoW : Proposed RoW

PROPOSED

- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION
R0	01-09-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुसाई/Pradeep Singh Gusain
परियोजना निदेशक / Project Director
सार्वजनिक राजमार्ग प्राधिकरण
National Highway Authority of India
पी०आर०एच० - रुड़की / RUD.ROORKEE

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Delhi-Saharanpur-Dehradun Economic Corridor in the state of Uttar Pradesh and
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DRAWN BY	SUMAN
DESIGNED BY	SANDEEP
CHECKED BY	KUN REOY
APPROVED BY	BHUPENDER

FINAL
DETAILED
PROJECT
REPORT

File	Median & Avenue Plantation	(Ch. 4+000 to Ch. 5+000)
Sheet	Scale	Draw No
A2	HR-1:1500	HARIDWAR-SPUR-PLANTATION-07

R0

LEGEND :

PLAN :

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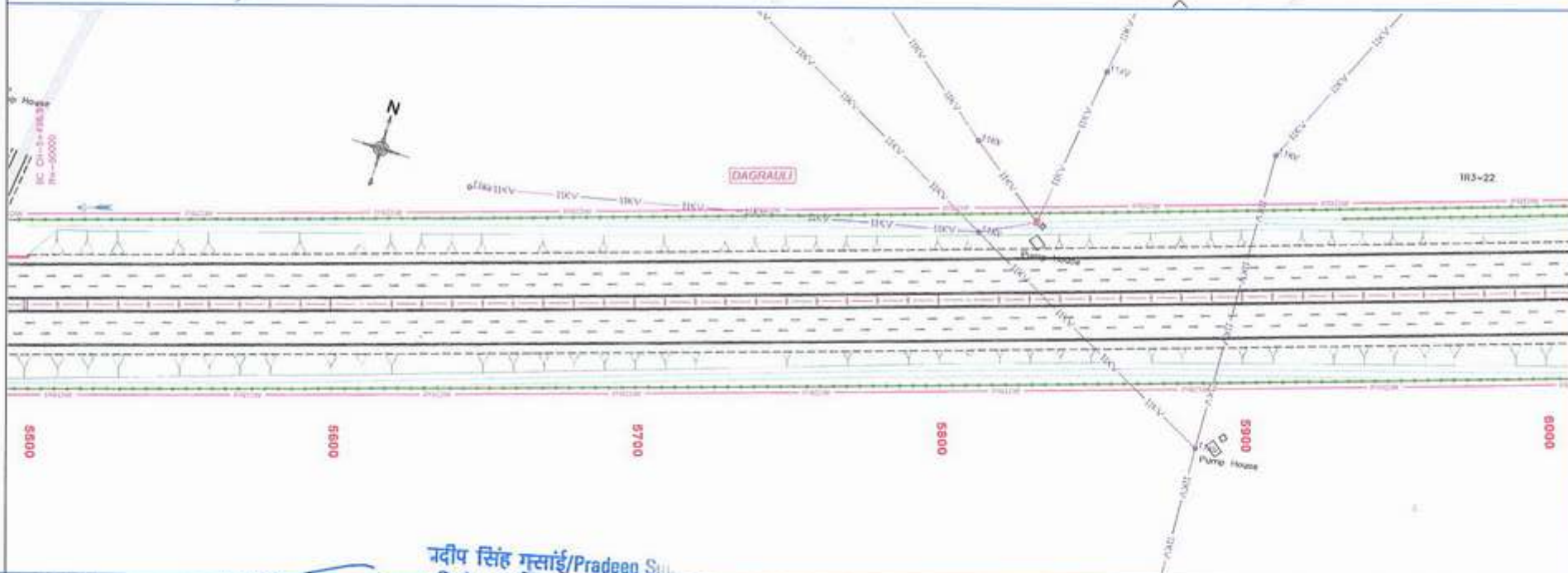
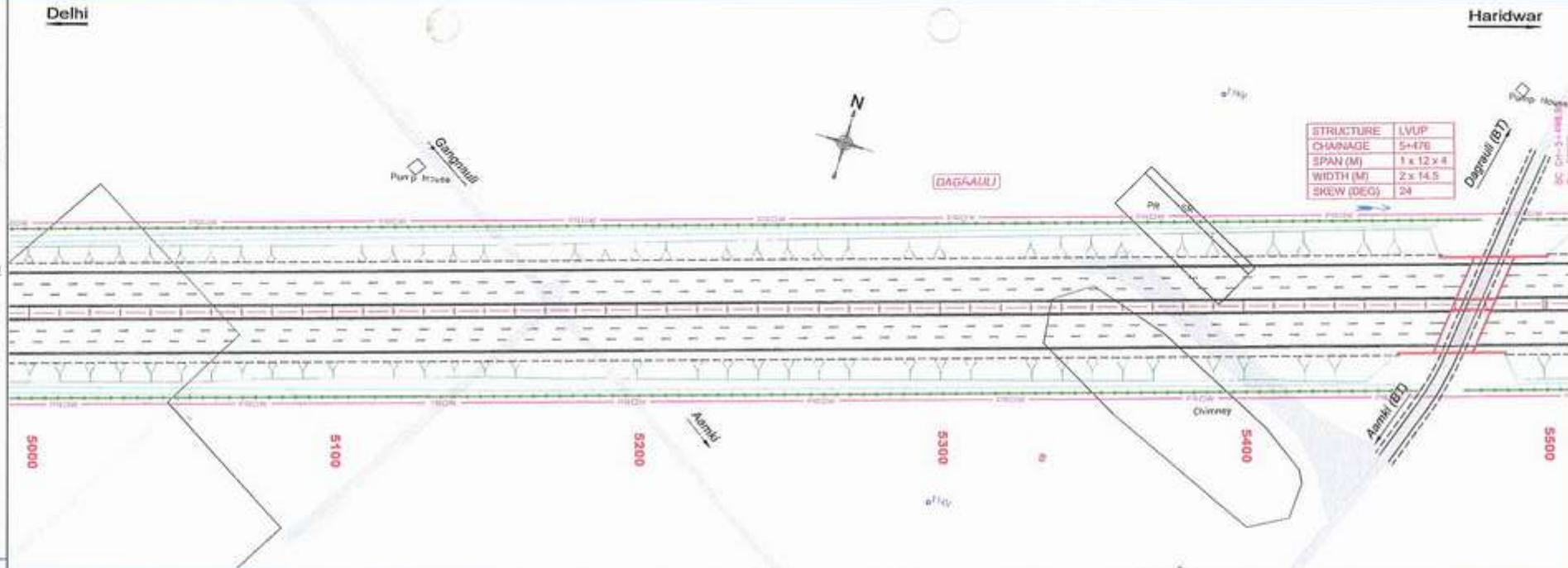
- Exist. Road
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- [HUT] : Hut
- [P] : Paddy Field
- [B-W] : Boundary Wall
- [F] : Fencing
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PROPOSED

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- Culvert
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- Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION	Authority	Project	DRAWN BY	SUBAN	FINAL DETAILED PROJECT REPORT	Title: Median & Avenue Plantation (Ch. 5+000 to Ch. 6+000)			
RD	01-09-2022	FINAL DETAILED PROJECT REPORT	 National Highways Authority of India (Ministry of Road Transport & Highways)	Tropics Consulting Pvt. Ltd. Access Consulting Engineers Pvt. Ltd. National Highway Authority of India Plot No. 10, Sector 10, Gurgaon, Haryana - 122001	DESIGNED BY	SANDEEP		Scale	Day No	Rpt.	
					CHECKED BY	KSN REDDY		A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-08	RD
					APPROVED BY	BRUPENDER					

LEGEND :

PLAN :

EXISTING

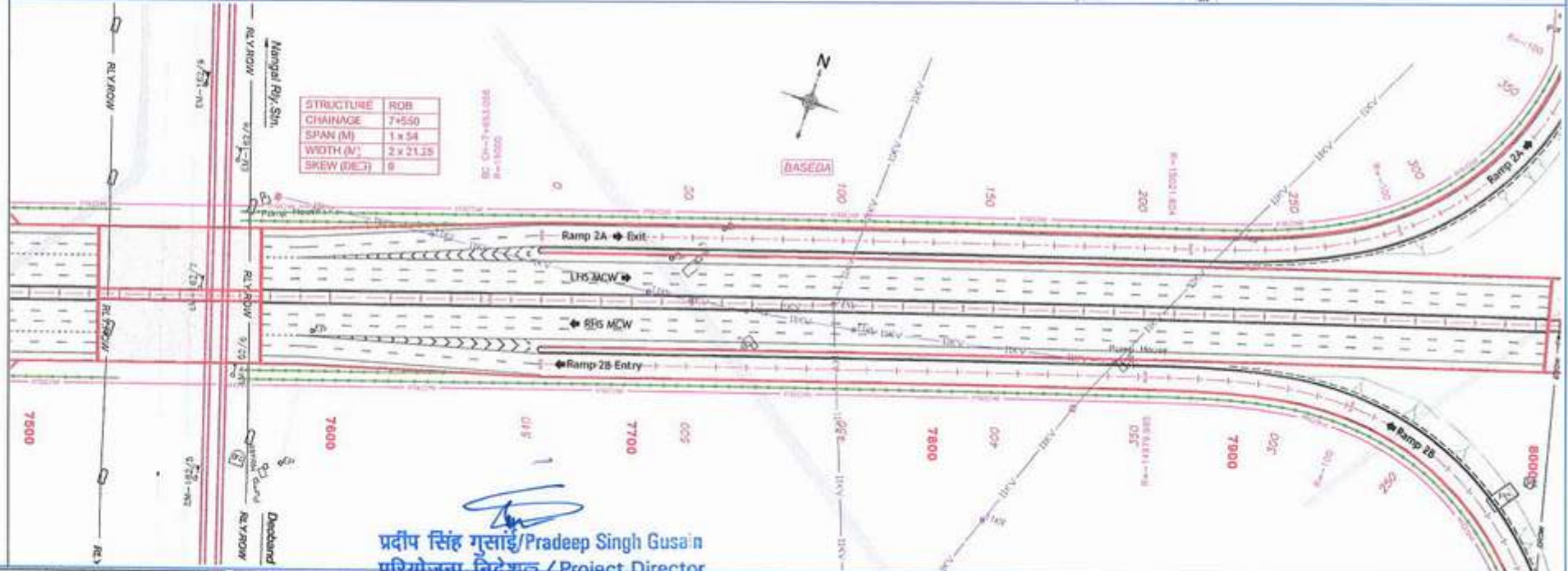
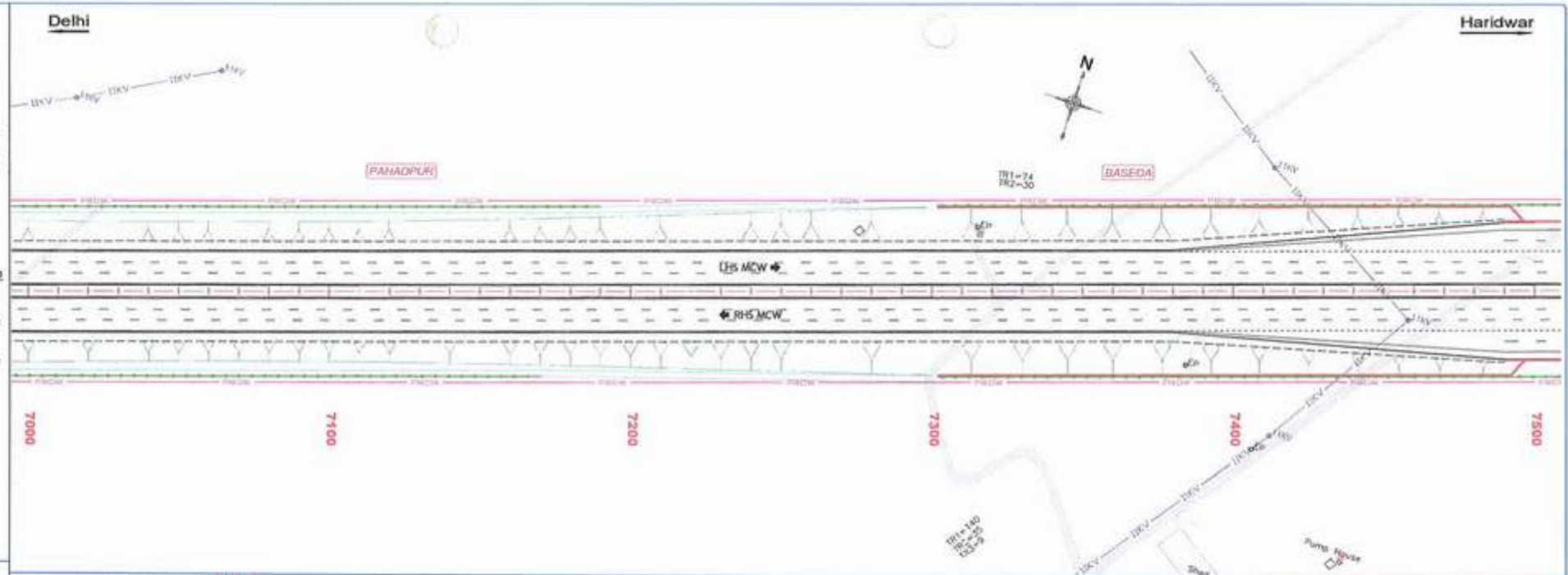
- Exst. Road
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PROPOSED

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- PLANTATION

Delhi

Haridwar



STRUCTURE	ROB
CHAINAGE	7+550
SPAN (M)	1 x 54
WIDTH (M)	2 x 21.15
SKEW (DEG)	0

प्रदीप सिंह गुसाई/Pradeep Singh Gusa
परियोजना निदेशक / Project Director

REV.	DATE	DESCRIPTION
RD	01-08-2022	FINAL DETAILED PROJECT REPORT



महाराष्ट्र राज्य सरकार / Maharashtra Government
राष्ट्रीय राजमार्ग प्राधिकरण / National Highway Authority of India

Spur to Haridwar from Delhi-Delhadun Greenfield Project
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DRAWN BY: SUMAN
DESIGNED BY: SANDEEP
CHECKED BY: KUN REDDY
APPROVED BY: BHUPENDER

FINAL DETAILED PROJECT REPORT

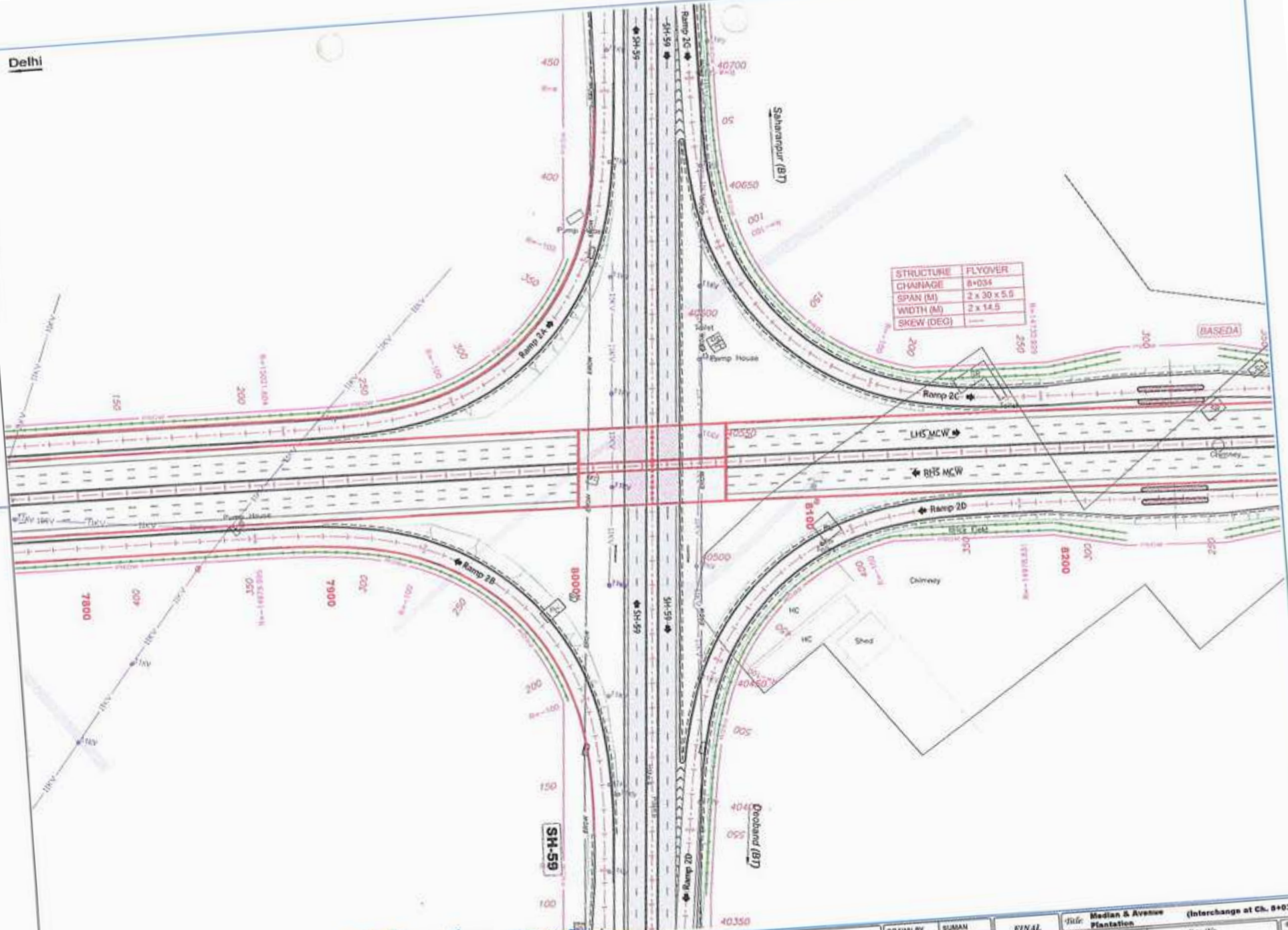
Tab.	Median & Avenue Plantation	(Ch. 7+000 to Ch. 8+000)
Scale	Scale	Map No.
A2	HDR-1:1000	HARIDWAR-SPUR-PLANTATION-10

R9

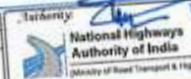
LEGEND :

- PLAN :**
- EXISTING**
- Exist. Road
 - SP-R : Semi Pucca Resl.
 - SP-C : Semi Pucca Comm.
 - PR : Pucca Residential
 - PC : Pucca Commercial
 - K-R : Katcha Residential
 - HUT : Hut
 - Paddy Field
 - Boundary Wall
 - Fencing
 - ERDW : Existing RoW
 - PROW : Proposed RoW
- PROPOSED**
- Toe Line
 - Srt Edge
 - C/W Edge
 - Median
 - C/W Edge
 - Srt Edge
 - Toe Line
 - Hor. Tangent Point
 - Culvert
 - Unlined Drain
 - Unlined Drain
 - TOE / RE WALL
 - PLANTATION

Delhi



REV.	DATE	DESCRIPTION
RD	01-09-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुसाई/Pradeep Singh Gusain
परियोजना निदेशक / Project Director
माध्यमिक सड़क / Medium Road
National Highway Authority of India
पीओआर/रूड डी / PIU-Road

Spur to Haridwar from Delhi-Delhadun Greenfield Project
Development of 4-lane access controlled Spur to Haridwar from
Delhi-Saharanpur-Delhadun Economic Corridor in the state of Uttar Pradesh and
Bihar under Bharatmala Pariyojana

DRAWN BY SUMAN
DESIGNED BY SANDEEP
CHECKED BY KAN REDDY
APPROVED BY BHUPENDER

FINAL
DETAILED
PROJECT
REPORT

Title		Median & Avenue Plantation		(Interchange at Ch. 8+034)	
Size	Scale	Scale	Scale	Scale	Scale
A2	HOR-1:1000				
HARIDWAR-SPUR-PLANTATION-11					

R0

LEGEND :

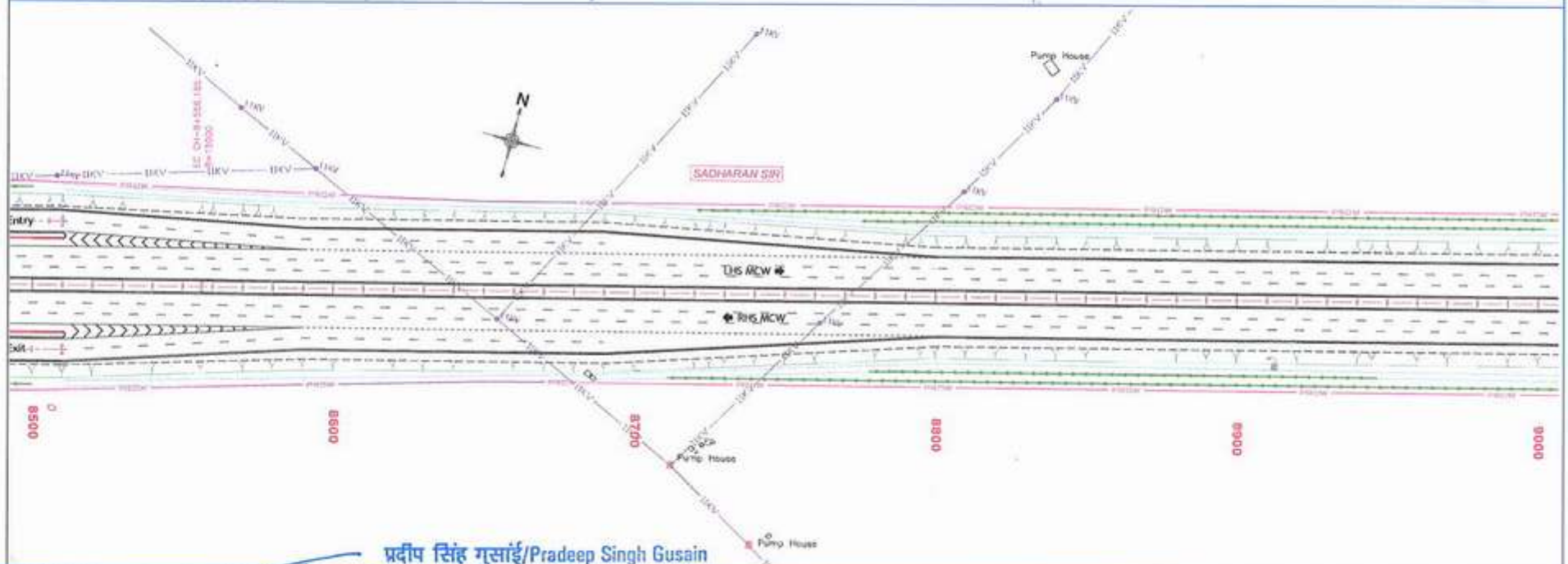
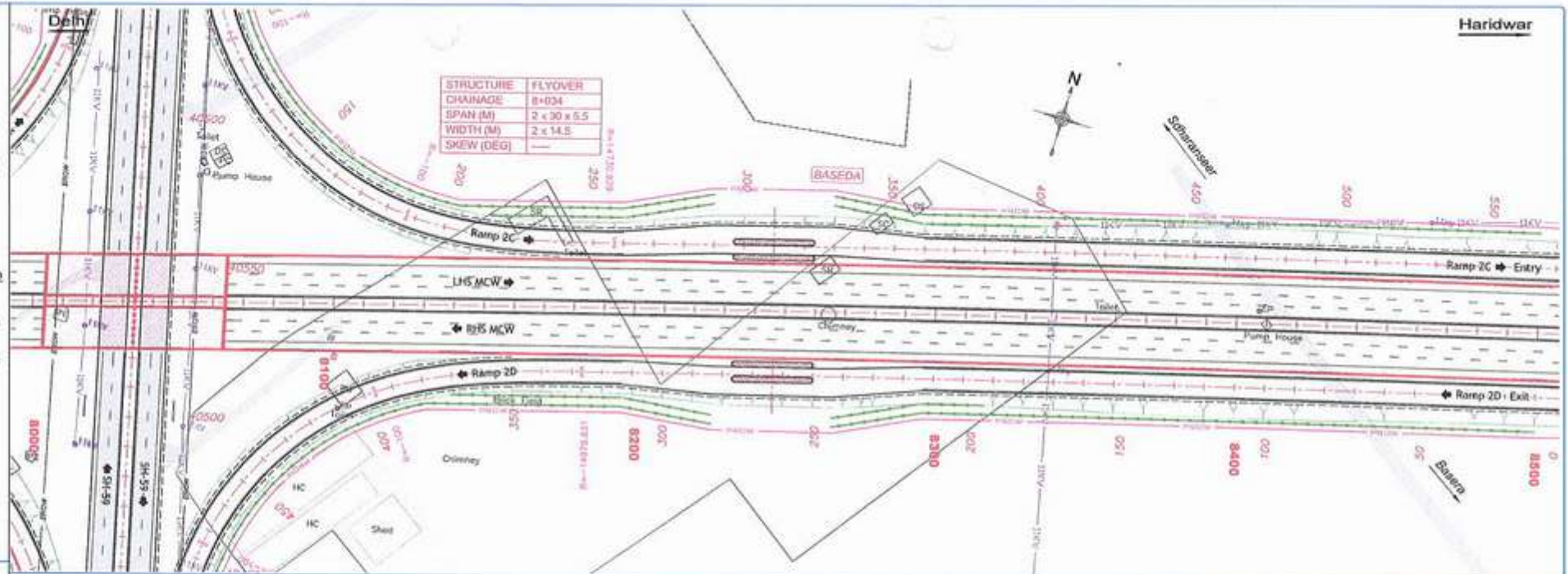
PLAN :

EXISTING

- Exst. Road
- SP-R : Semi Pucca Resl.
- SP-C : Semi Pucca Comm.
- P-R : Pucca Residential
- P-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PRCW : Proposed RoW

PROPOSED

- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TOE / RE WALL
- PLANTATION



REV.	DATE	DESCRIPTION	Author	Project Director	Drawn By	Checked By	Approved By	Scale	Sheet No.	Sheet Total
RD	01-08-2022	FINAL DETAILED PROJECT REPORT	Pradeep Singh Gusain	Pradeep Singh Gusain	SUNAM	SANDEEP	KSH REDDY	1:1000	12	12

प्रदीप सिंह गुसाई/Pradeep Singh Gusain
परियोजन निदेशक / Project Director
मास्त्रीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पीओआर-रुड़की / PIU-Roorkee

Spor to Haridwar from Delhi-Delhadon Greenfield Project
Development of 4-lane access controlled Spur to Haridwar from
Delhi-Saharanpur-Delhadon Economic Corridor in the state of Uttar Pradesh and
Bihar under Bharatmala Pariyojana

FINAL DETAILED PROJECT REPORT

Scale: 1:1000
Sheet No: 12
Sheet Total: 12

LEGEND :

PLAN :

EXISTING

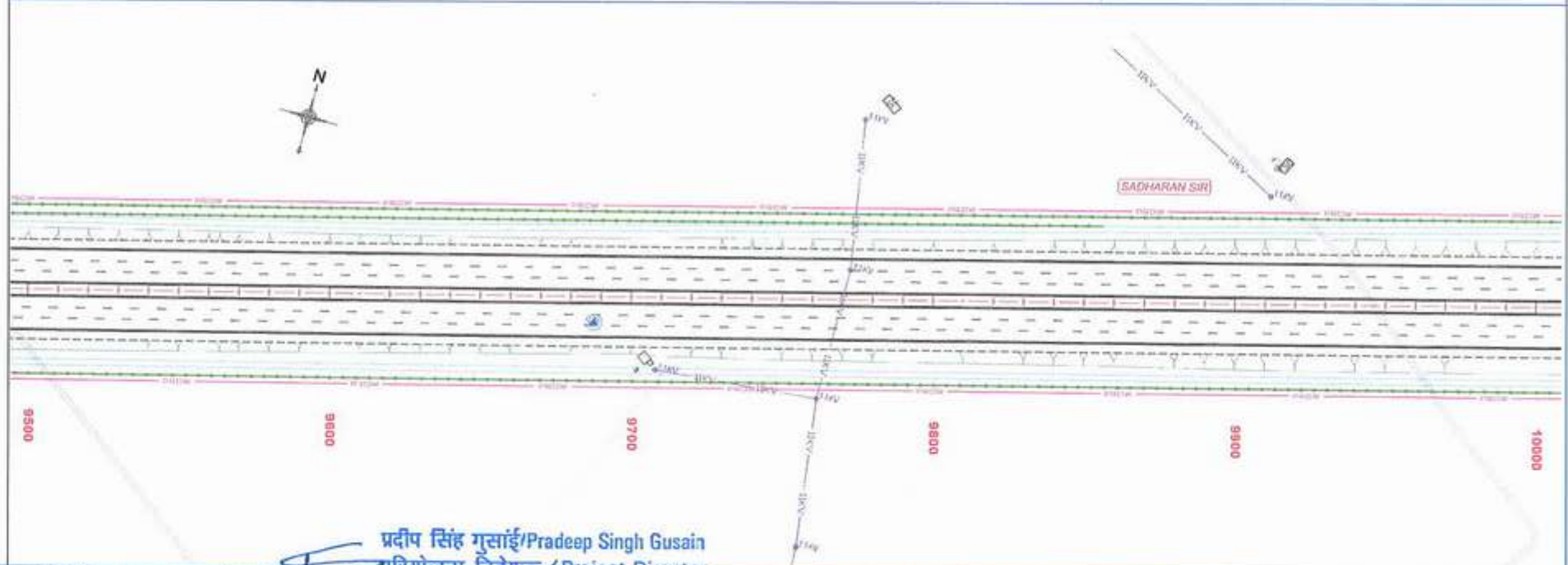
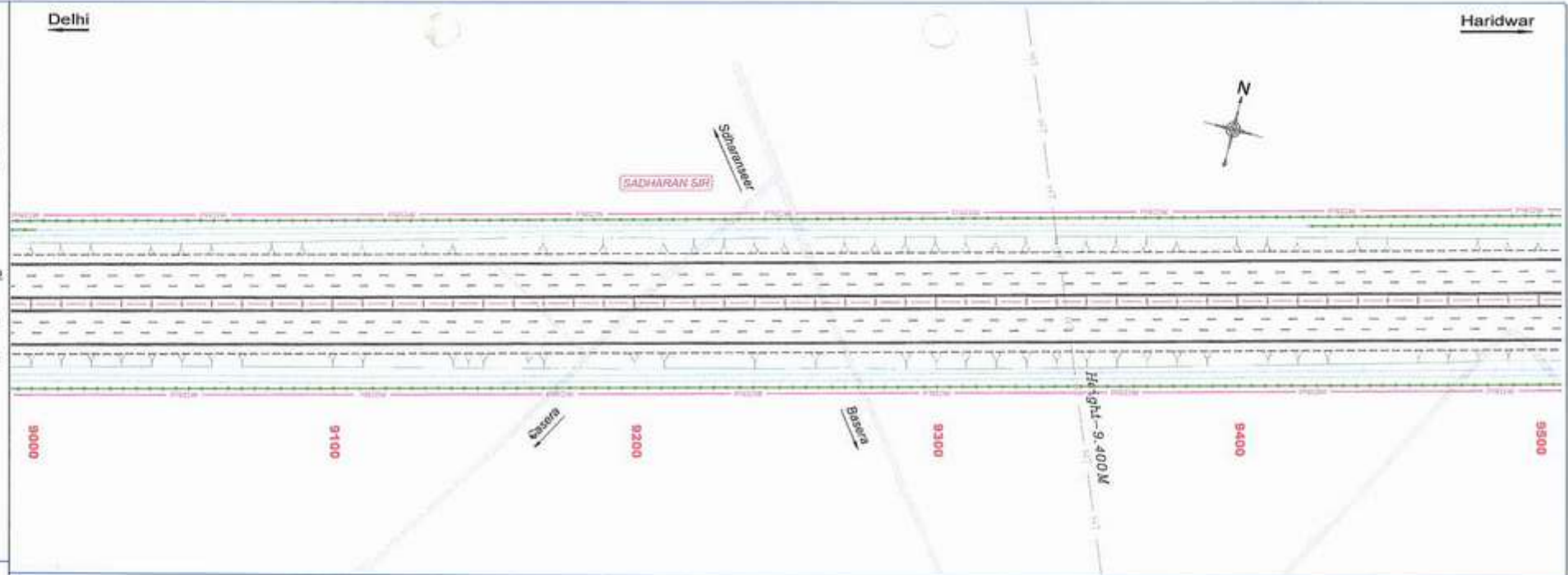
- Exist. Road
- SP-R : Semi Pucca Resil.
- SP-C : Semi Pucca Comm.
- PR : Pucca Residential
- PC : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

- Top Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Top Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TDE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION
R0	01-08-2022	FINAL DETAILED PROJECT REPORT

प्रदीप सिंह गुसाई/Pradeep Singh Gusain
परियोजना निदेशक / Project Director

राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India

राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India

प्रीति/Preeti

Spur to Haridwar from Delhi-Delhadun Greenfield Project

Development of a four-lane access controlled Spur to Haridwar from Delhi-Delhadun Greenfield Economic Corridor in the state of Uttar Pradesh and Uttarakhand under Bharatmala Pariyojana

DRAWN BY	SUMAN
DESIGNED BY	SANDEEP
CHECKED BY	KUN REDDY
APPROVED BY	SHUPENDER

FINAL DETAILED PROJECT REPORT

Sheet	Median & Avenue Plantation	(Ch. 9+000 to Ch. 10+000)
Scale	Scale	Scale
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-13

LEGEND :

PLAN :

EXISTING

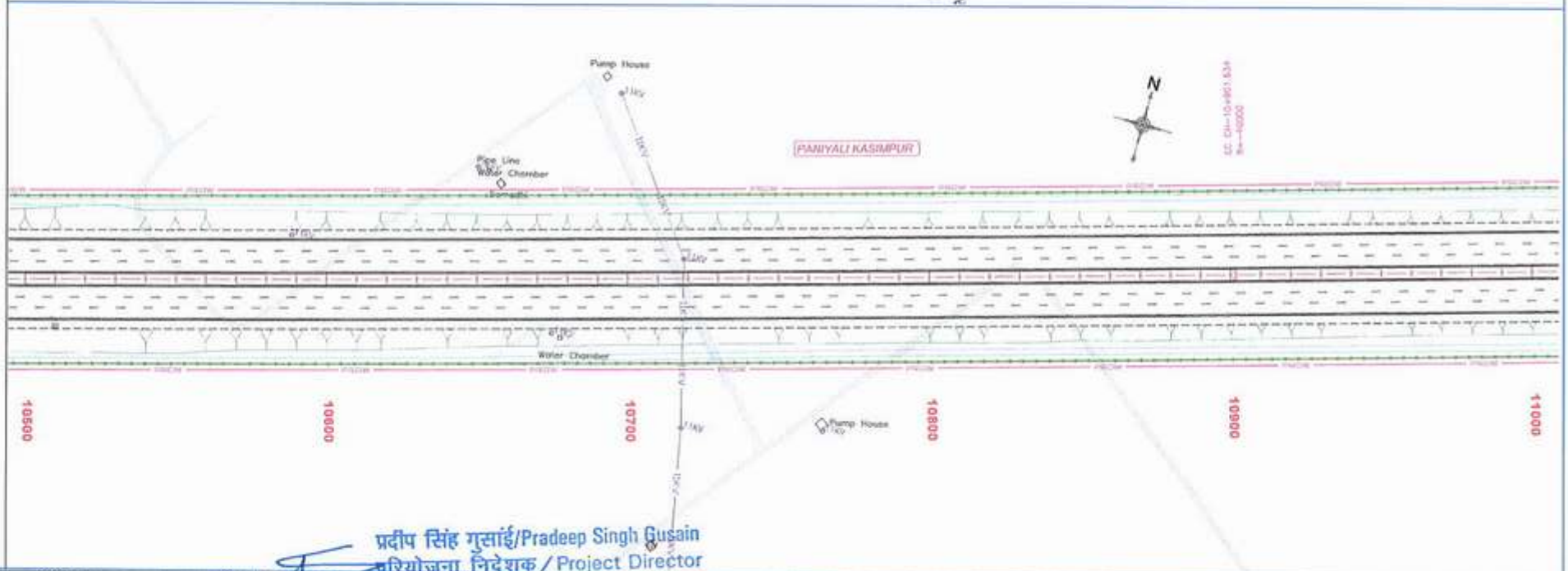
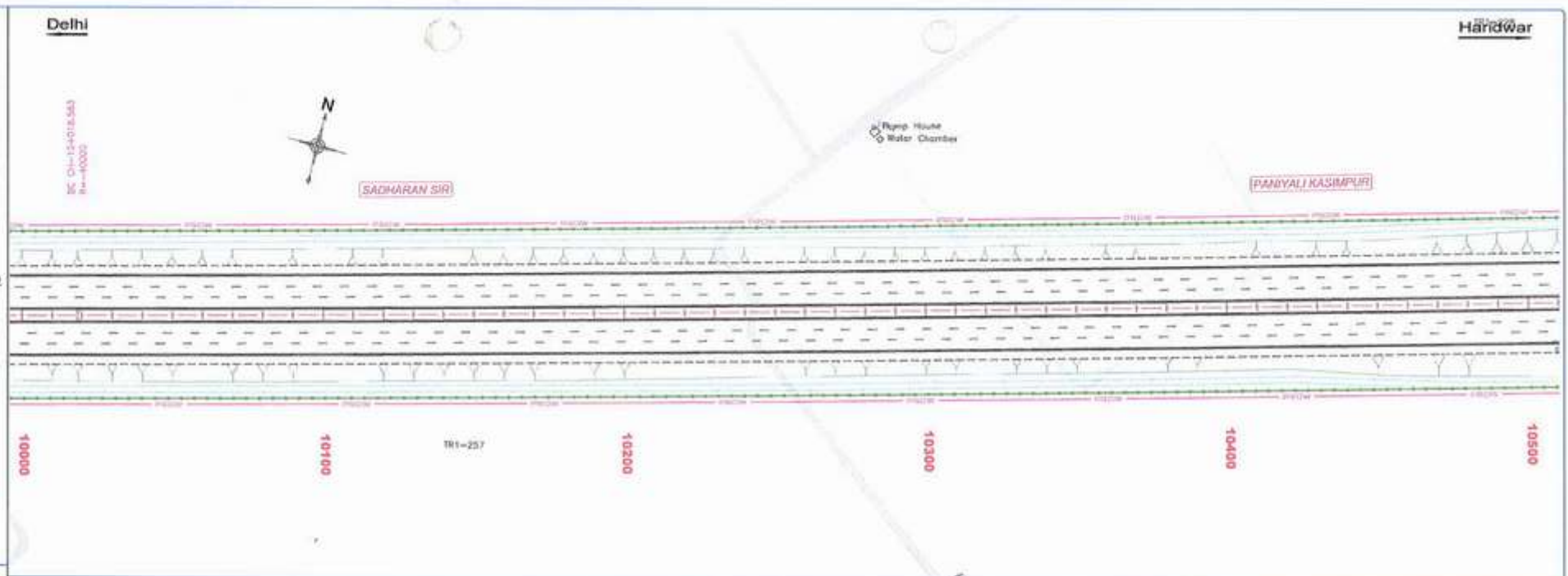
- Exist. Road
- SP-R : Semi Pucca Rest.
- SP-C : Semi Pucca Comm.
- P-R : Pucca Residential
- PC-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION	Project Director		Project		DRAWN BY		DESIGNED BY		CHECKED BY		APPROVED BY		Scale		Medien & Avenue Plantation		(Ch. 10+000 to Ch. 11+000)		Scale		Dig No		R/R	
RD	01-09-2022	FINAL DETAILED PROJECT REPORT	Pradeep Singh Gusain		Spar to Haridwar from Delhi-Dehradun Greenfield Project		SUMAN		SANDEEP		KSN REDDY		BHAUPENDER		A2		HAR-1:1000		HARIDWAR-SPUR-PLANTATION-14		HAR-1:1000		HARIDWAR-SPUR-PLANTATION-14		RD	

LEGEND

PLAN

EXISTING

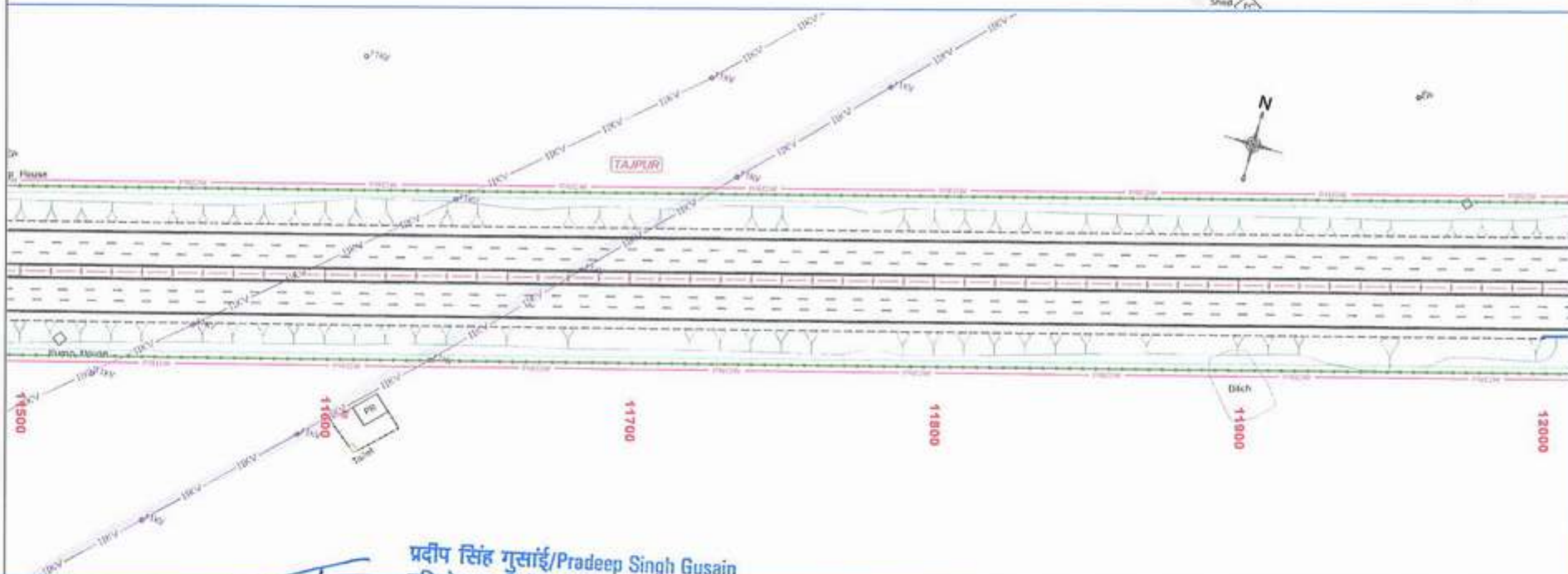
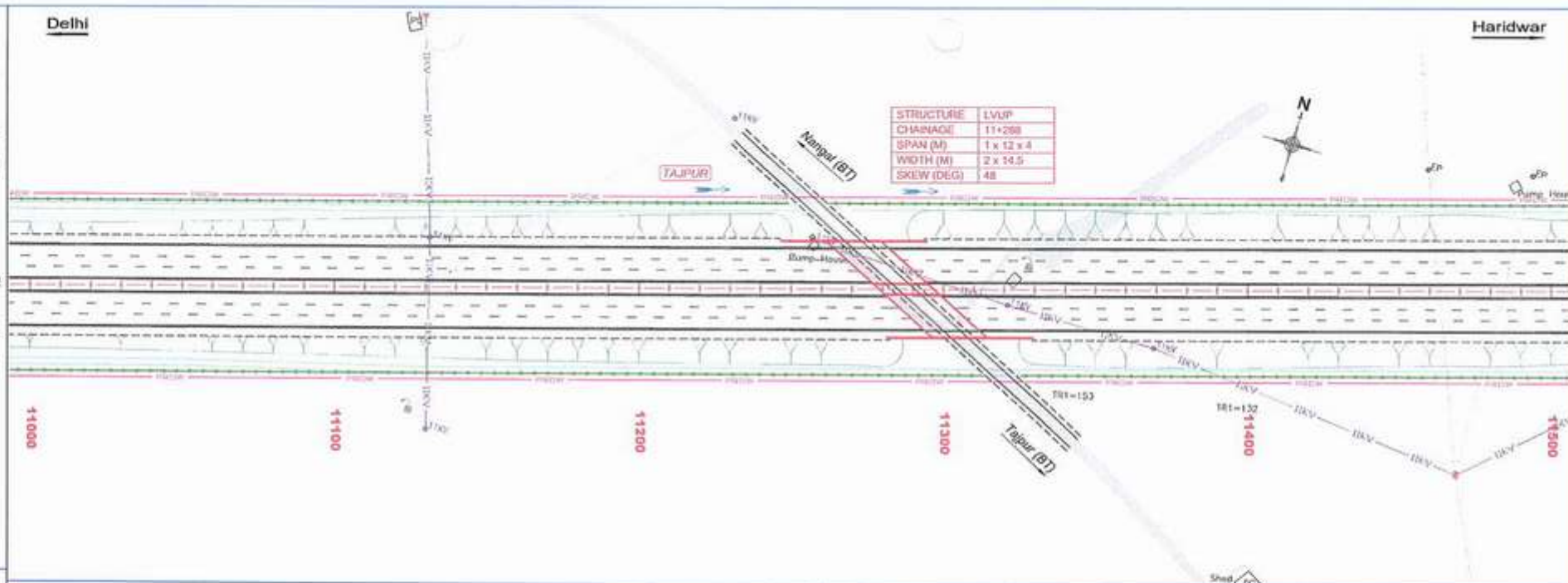
- SP-R : Semi Pucca Resi.
- SP-C : Semi Pucca Comm.
- PR : Pucca Residential
- PC : Pucca Commercial
- KR : Katcha Residential
- FRUIT : Fruit
- FF : Paddy Field
- BW : Boundary Wall
- F : Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

- TL : Toe Line
- SE : SH Edge
- CE : C/W Edge
- M : Median
- CE : C/W Edge
- SE : SH Edge
- TL : Toe Line
- HTP : Hor. Tangent Point
- C : Culvert
- LD : Lined Drain
- UD : Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION
NO	01-08-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुसाई/Pradeep Singh Gusain
परियोजना निदेशक / Project Director

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
प्रीति नगर, रायपुर / Priyadarshan, Raipur

Spur to Haridwar from Delhi-Delhadun Greenfield Project
Development of a-line access controlled Spur to Haridwar from
Delhi-Saranangpur-Delhadun Economic Corridor in the state of Uttar Pradesh and
Uttarakhand under Shramamala Pariyojana

DRAWN BY: SUMAN
DESIGNED BY: SANDEEP
CHECKED BY: KEN REDDY
APPROVED BY: SHUPENDER

FINAL
DETAILED
PROJECT
REPORT

Tab.	Median & Avenue Plantation	(Ch. 11+000 to Ch. 12+000)
Size	Scale	Reg. No.
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-15

NO

LEGEND :

PLAN :

EXISTING

- Exist. Road
- SP-R : Semi Pucca Resl.
- SP-C : Semi Pucca Comm.
- P-R : Pucca Residential
- P-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut

- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

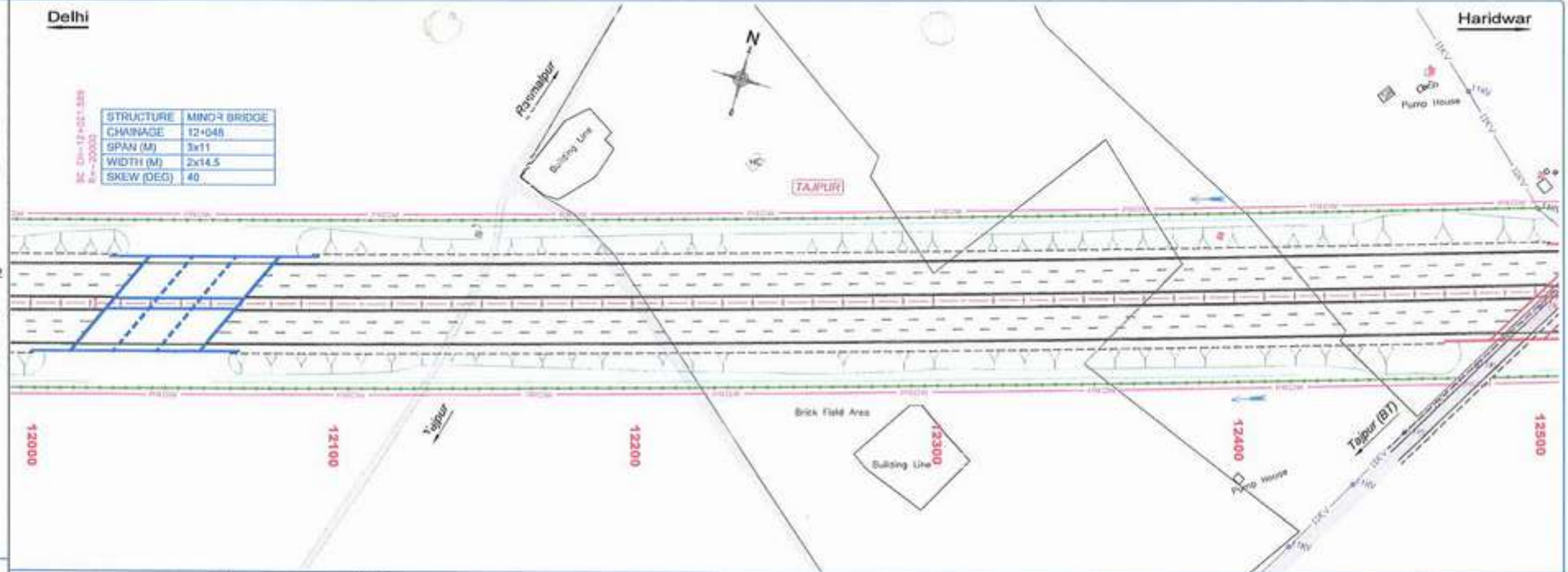
- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point

- Culvert
- Lined Drain
- Unlined Drain

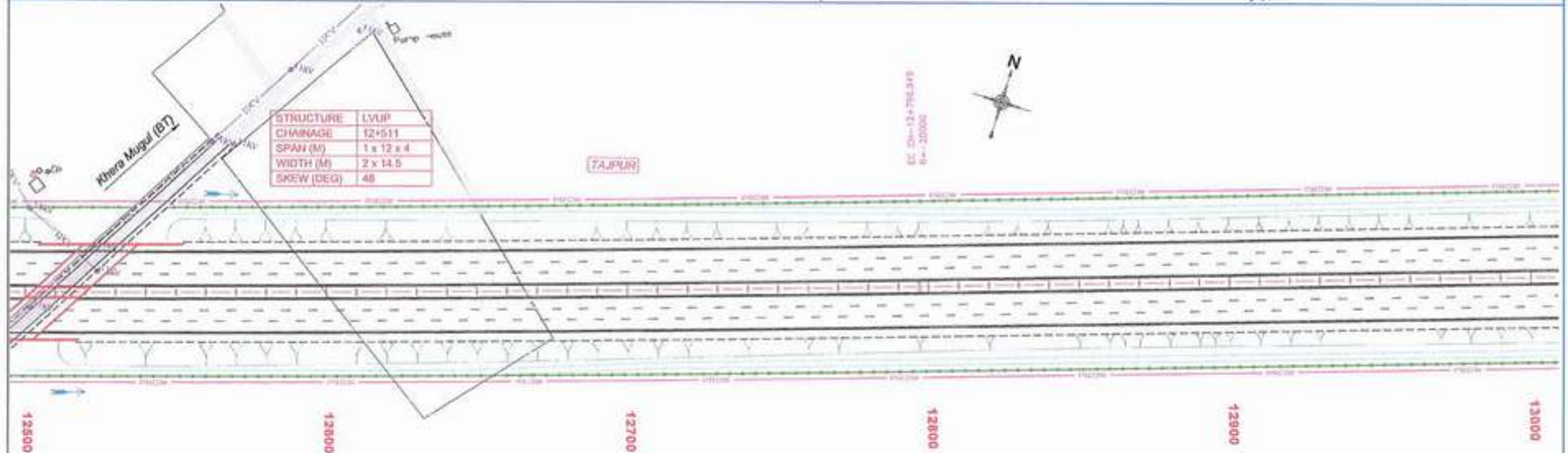
- TOE / RE WALL

- PLANTATION

Delhi



Haridwar



REV.	DATE	DESCRIPTION
R0	01-09-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुसाई/Pradeep Singh Gusain
परियोजना निदेशक / Project Director
सार्वजनिक राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
Ministry of Road Transport & Highways

Spur to Haridwar from Delhi-Dehradun Greenfield Project
Development of 4-lane access controlled Spur to Haridwar from
Delhi-Dehradun Greenfield Project in the state of Uttar Pradesh and
Uttarakhand under Bharatmala Pariyojana

DRAWN BY	SUMAN
DESIGNED BY	SANDEEP
CHECKED BY	KEN REDDY
APPROVED BY	BHUPENDER

FINAL
DETAILED
PROJECT
REPORT

File	Median & Avenue Plantation	(Ch. 12+000 to Ch. 13+000)
Size	Scale	Eng. No.
A2	HOR-1:1000	HARIDWAR-SPUR PLANTATION-16

R0

LEGEND :

PLAN :

EXISTING

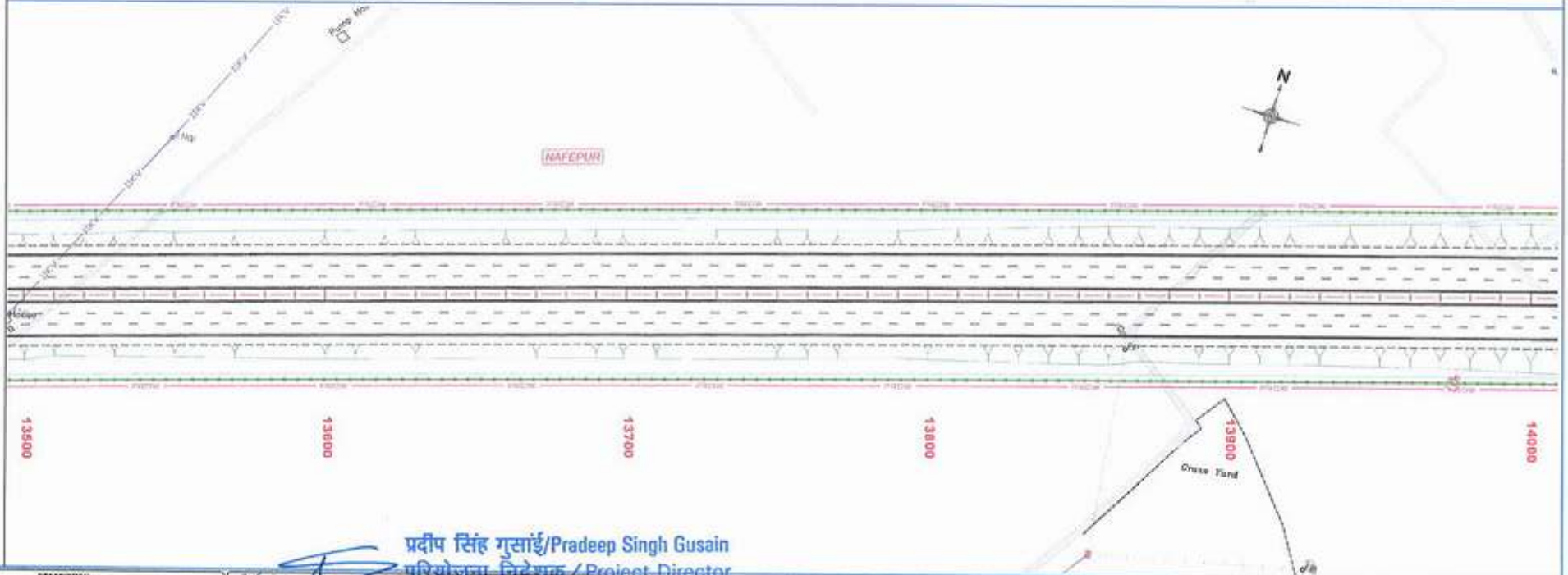
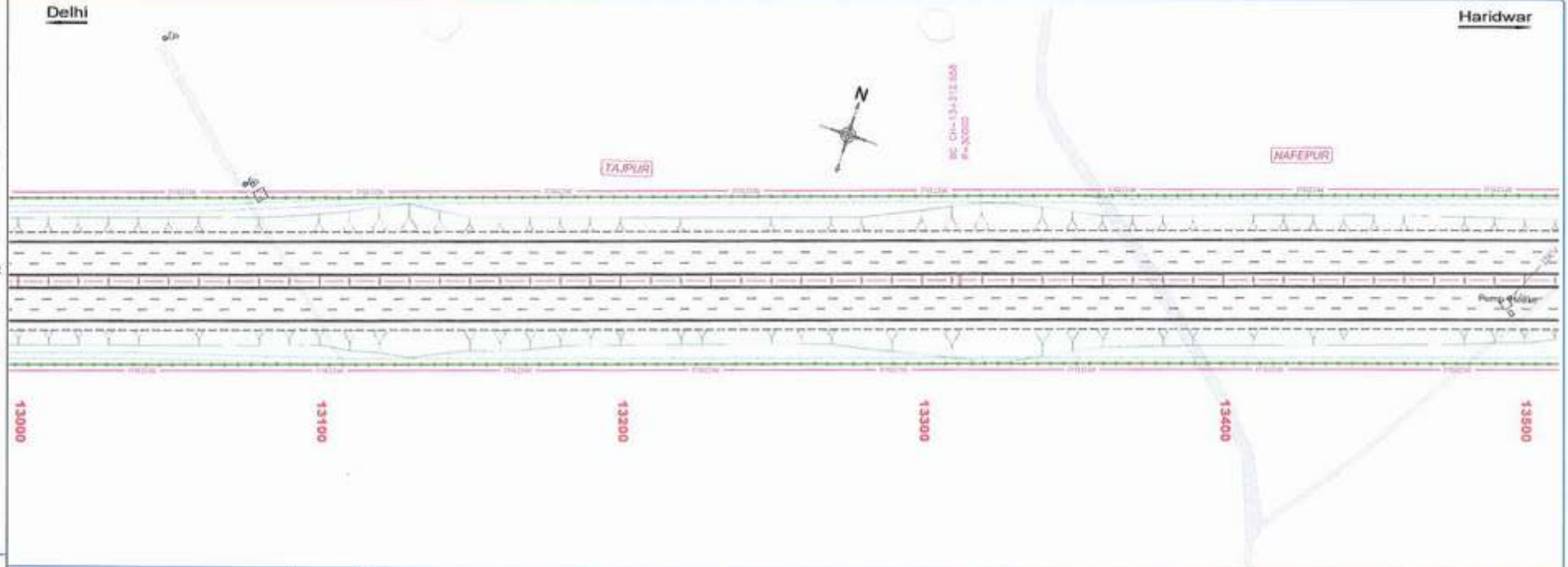
- Exist. Road
- SP-R : Semi Pucca Rest.
- SP-C : Semi Pucca Comm.
- PS-R : Pucca Residential
- PS-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION
RO	01-09-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुसाई/Pradeep Singh Gusain
परियोजना निदेशक / Project Director

भारतीय सड़क निगम, राष्ट्रीय राजमार्ग प्रकल्प
Tropaya Consulting Pvt. Ltd.
भारतीय सड़क निगम, राष्ट्रीय राजमार्ग प्रकल्प
National Highway Development Corporation Ltd.
भारतीय सड़क निगम, राष्ट्रीय राजमार्ग प्रकल्प

Spur to Haridwar from Delhi-Delhradun Greenfield Project
Development of 6-lane access controlled Spur to Haridwar from
Delhi-Delhradun Greenfield Project in the state of Uttar Pradesh and
Uttarakhand under Bharatmala Pariyojana

DRAWN BY	SUMAN
DESIGNED BY	SANDEEP
CHECKED BY	KEN REDDY
APPROVED BY	SHUPENDER

FINAL
DETAILED
PROJECT
REPORT

Scale	Scale	Scale	Scale
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-17	RO

LEGEND :

PLAN :

EXISTING

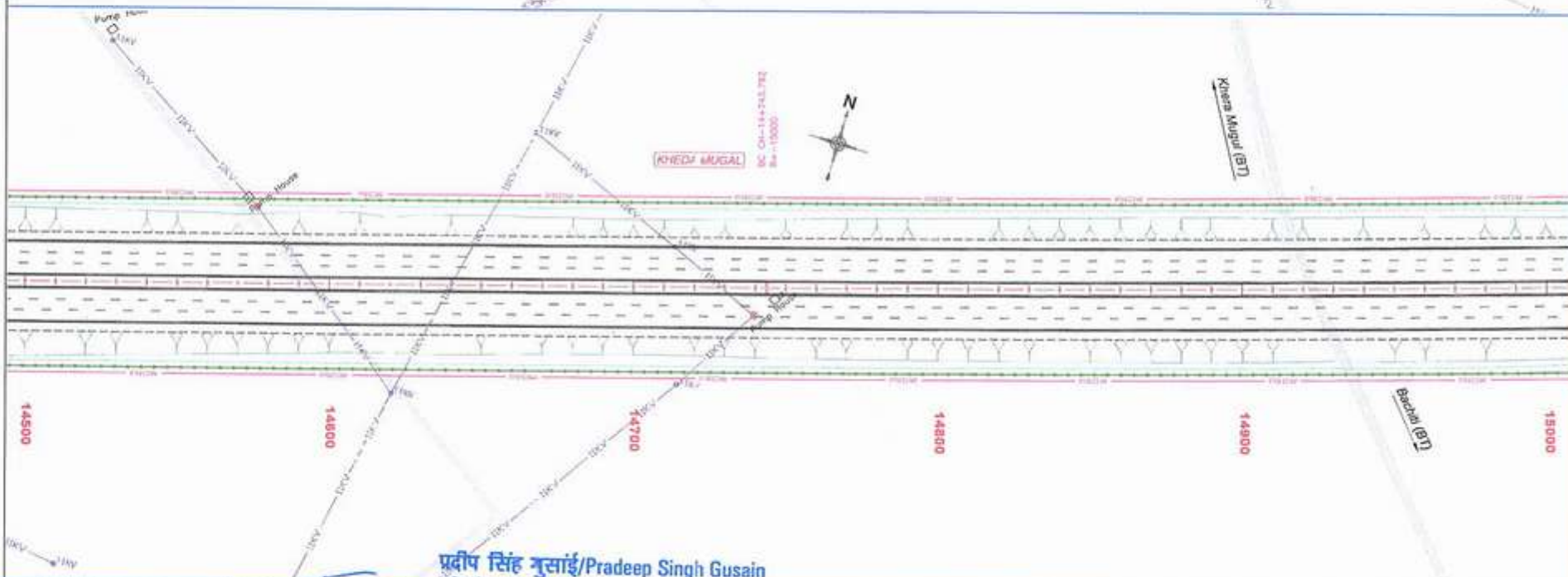
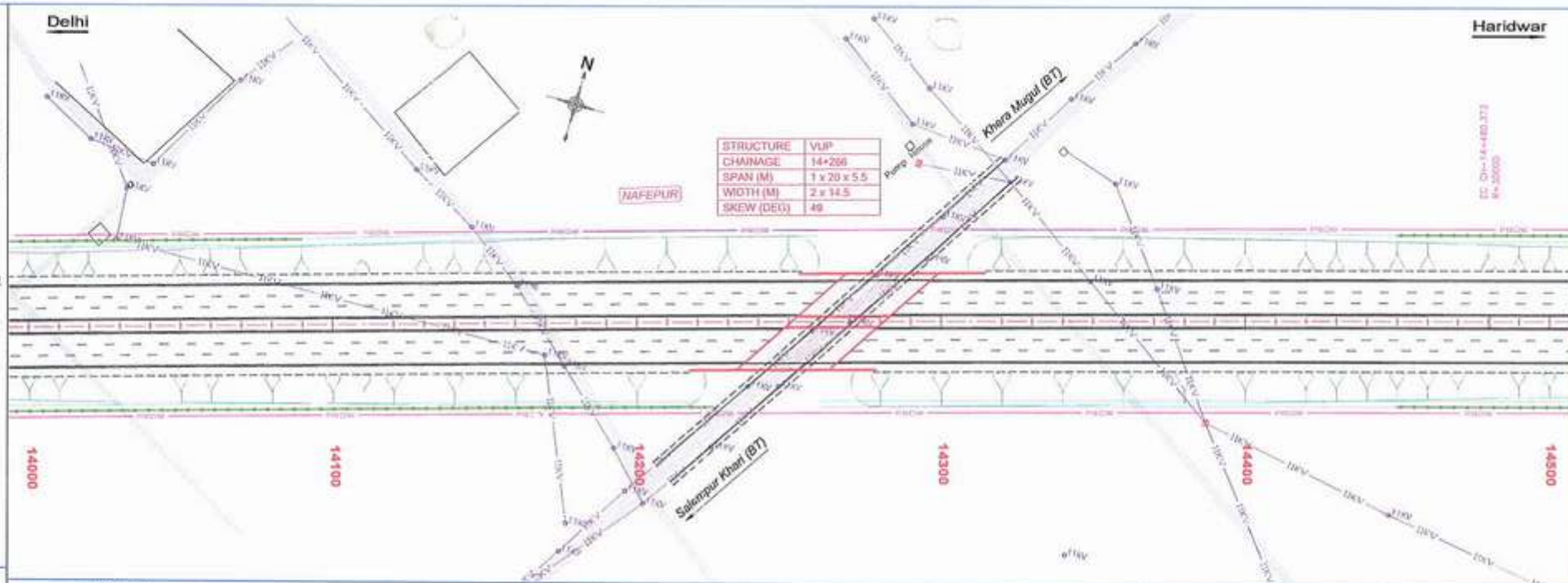
- Exst. Road
- SP-R : Semi Pucca Rest.
- SP-C : Semi Pucca Comm.
- P-R : Pucca Residential
- P-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PRoW : Proposed RoW

PROPOSED

- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TDE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION
RD	01-08-2022	FINAL DETAILED PROJECT REPORT

Tailor
National Highways
Authority of India
(Ministry of Road Transport & Highways)

प्रदीप सिंह नुसाई/Pradeep Singh Gusain
परियोजना निदेशक / Project Director
महाराष्ट्र राजमार्ग प्राधिकरण
National Highway Authority of India
पी०आर००५ - रुड़की / P.O. Roorkee

Spur to Haridwar from Delhi-Delhradun Greenfield Project
Development of 6-lane access controlled Spur to Haridwar from
Delhi-Delhradun Greenfield Economic Corridor in the state of Uttar Pradesh and
Uttarakhand under Bharatmala Pariyojana

DRAWN BY SUMAN
DESIGNED BY SANDEEP
CHECKED BY KSN REDDY
APPROVED BY SHRENDER

FINAL
DETAILED
PROJECT
REPORT

Scale	Median & Avenue Plantation	(Ch. 14+000 to Ch. 15+000)
Sheet	Scale	Sheet No.
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-18

R0

LEGEND :

PLAN :

EXISTING

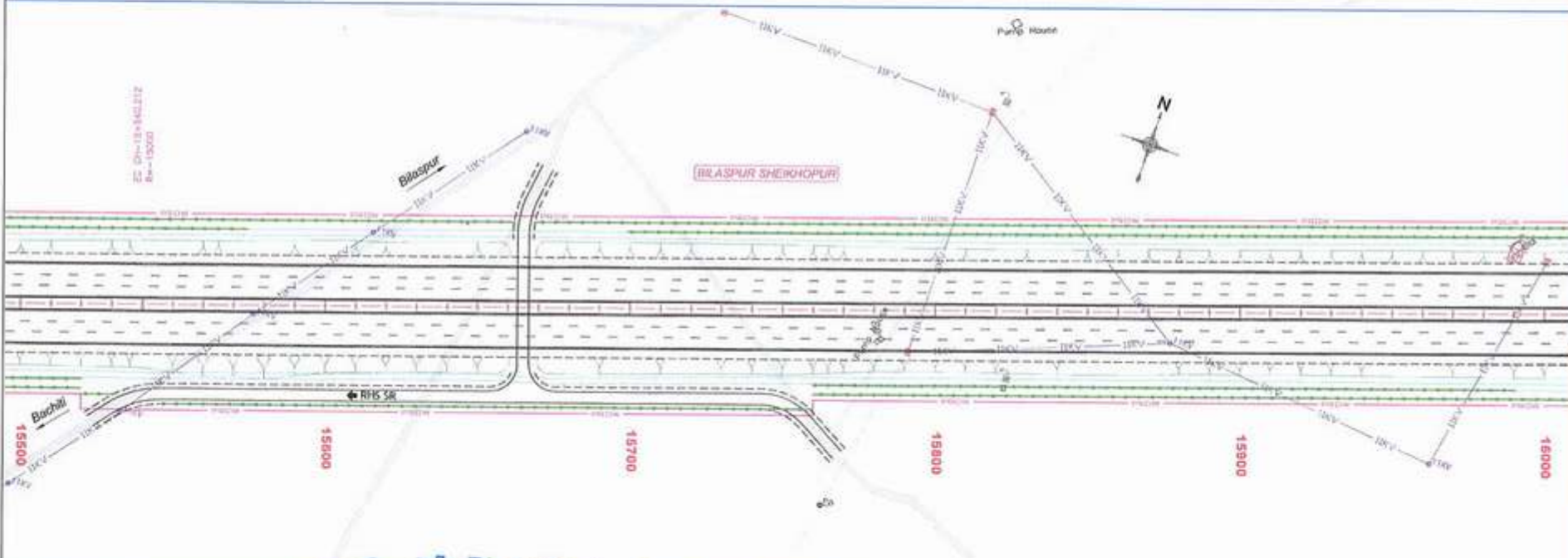
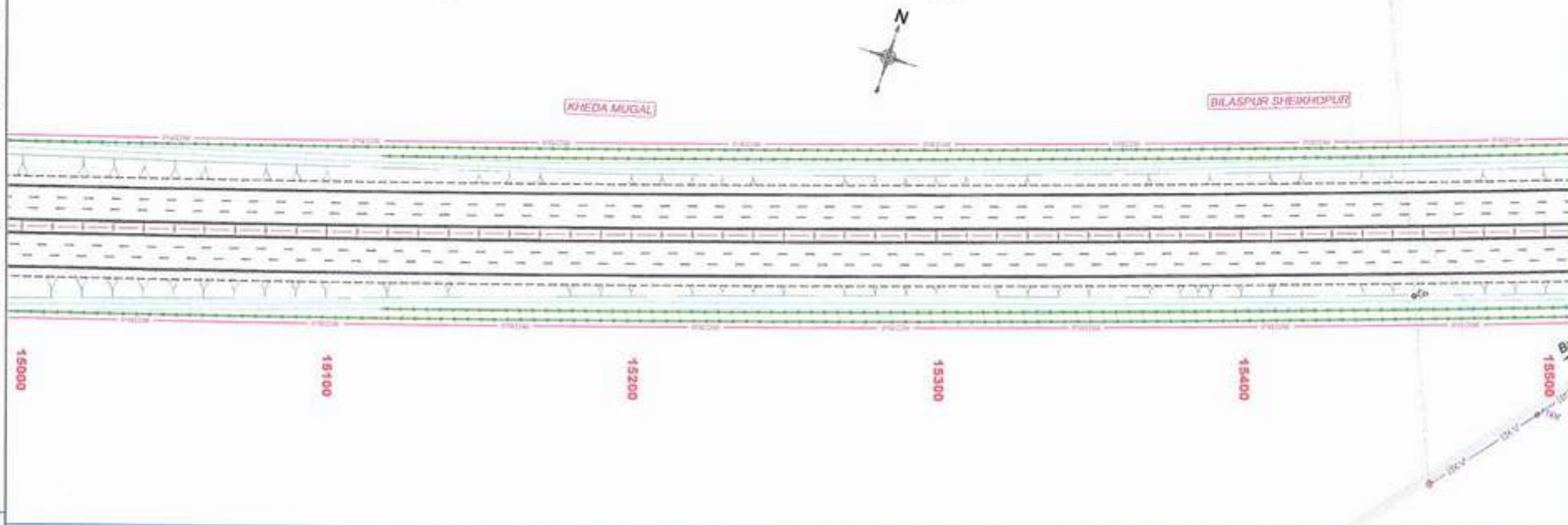
- Exist. Road
- SP-R : Semi Pucca Resl.
- SP-C : Semi Pucca Comm.
- PC-R : Pucca Residential
- PC-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

- Top Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Top Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION
RD	01-09-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुसाई/Pradeep Singh Gusain
परियोजना निदेशक / Project Director
राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पीओआइ ०५०-रूडको / P.O.I.R.

Bar to Haridwar from Delhi-Delhadun Greenfield Project
Development of 4-lane access controlled Spur to Haridwar from
Delhi-Saharanpur-Delhadun Economic Corridor in the state of Uttar Pradesh and
Vishakhapatnam under Bharatmala Pariyojana

DRAWN BY SUMAN
DESIGNED BY SANDEEP
CHECKED BY KSN REDDY
APPROVED BY BHUPENDER

FINAL
DETAILED
PROJECT
REPORT

Scale	Scale	Sheet No.	Rev.
A2	HON-1:1000	HARIDWAR-SPUR-PLANTATION-49	R0

LEGEND :

PLAN :

EXISTING

- Exist. Road
- SP-R : Semi Pucca Resi.
- SP-C : Semi Pucca Comm.
- PR-R : Pucca Residential
- PR-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy field
- Boundary Wall
- Fencing

- Existing ROW
- Proposed ROW

PROPOSED

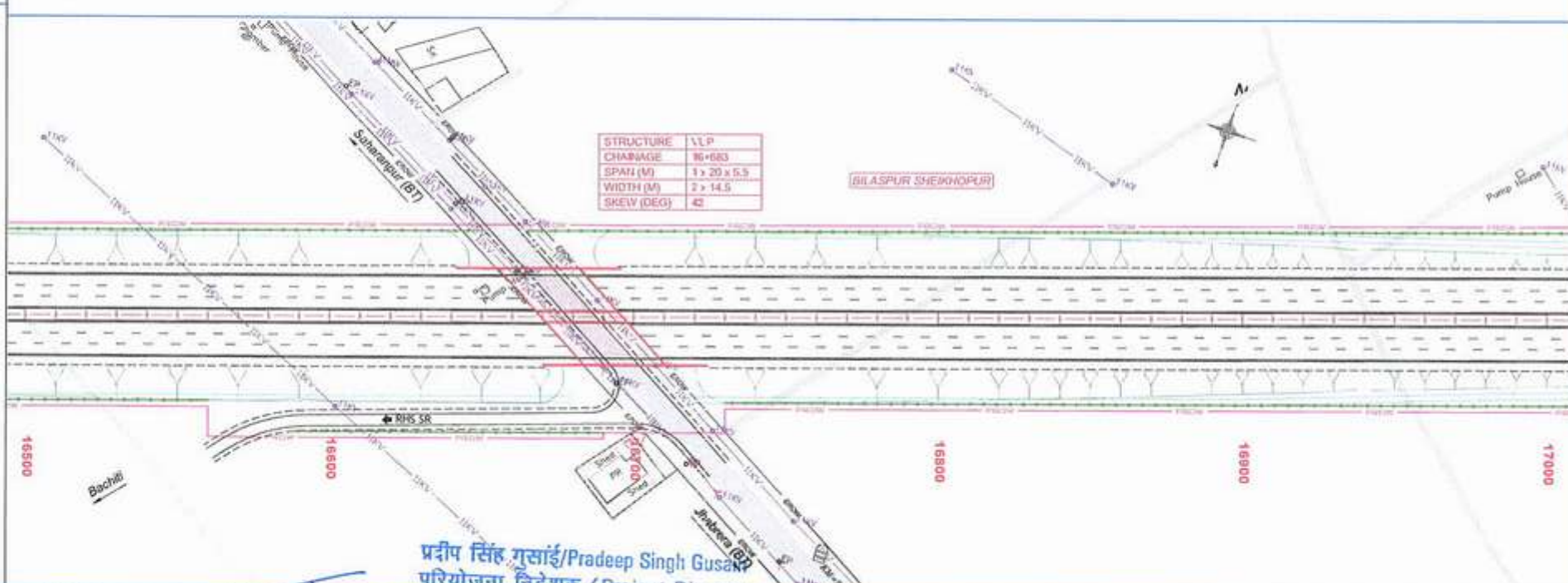
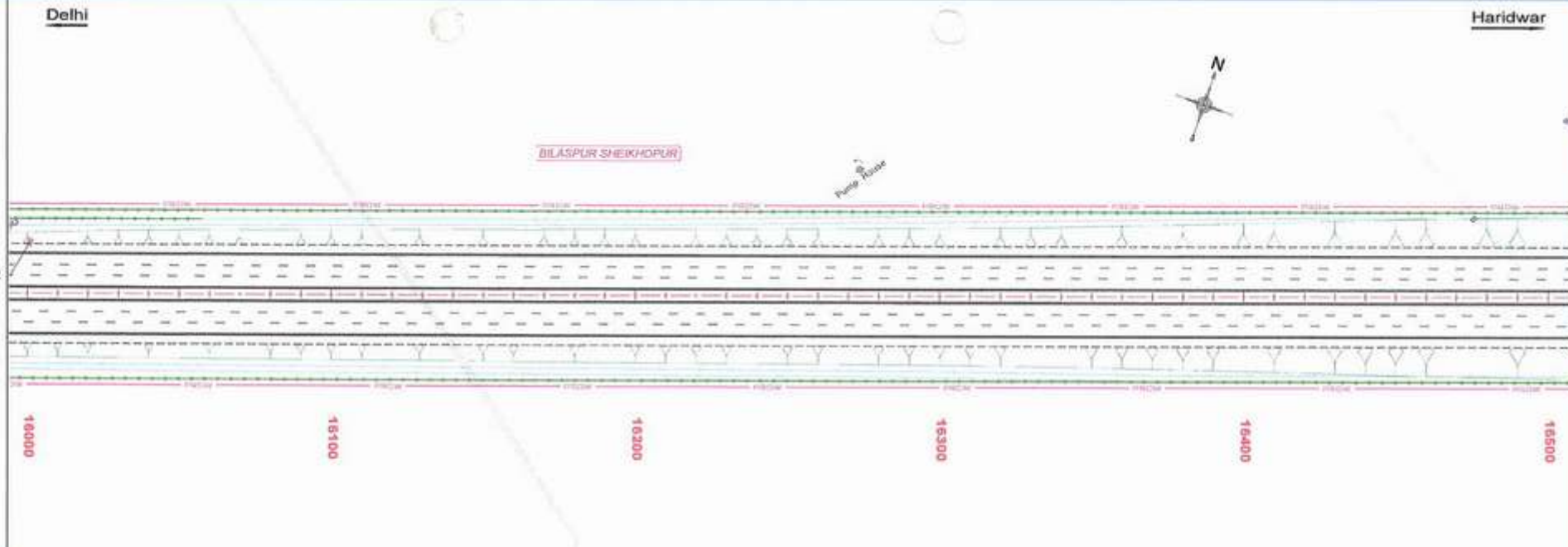
- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point

- Culvert
- Lined Drain
- Unlined Drain

- TDE / RE WALL
- PLANTATION

Delhi

Haridwar



STRUCTURE	VLP
CHAMBER	86+683
SPAN (M)	1 x 20 x 5.3
WIDTH (M)	2 x 14.5
SKEW (DEG)	42

REV.	DATE	DESCRIPTION
RD	01-09-2023	FINAL DETAILED PROJECT REPORT

National Highways Authority of India

प्रदीप सिंह गुसाई/Pradeep Singh Gusai
 परियोजना निदेशक / Project Director
 भारतीय राजमार्ग प्राधिकरण
 National Highway Authority of India

Spur to Haridwar from Delhi-Dehradun Greenfield Project
 Development of 4-lane access controlled Spur to Haridwar from
 Delhi-Dehradun Greenfield Project in the state of Uttar Pradesh and
 Uttarakhand under Shiksha Paryojana

DRAWN BY: SUBAN
 DESIGNED BY: SANDEEP
 CHECKED BY: KAN REDDY
 APPROVED BY: BHUPENDER

FINAL
 DETAILED
 PROJECT
 REPORT

Scale	Scale	Sheet No	Rev
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-20	RD

LEGEND :

PLAN :

EXISTING

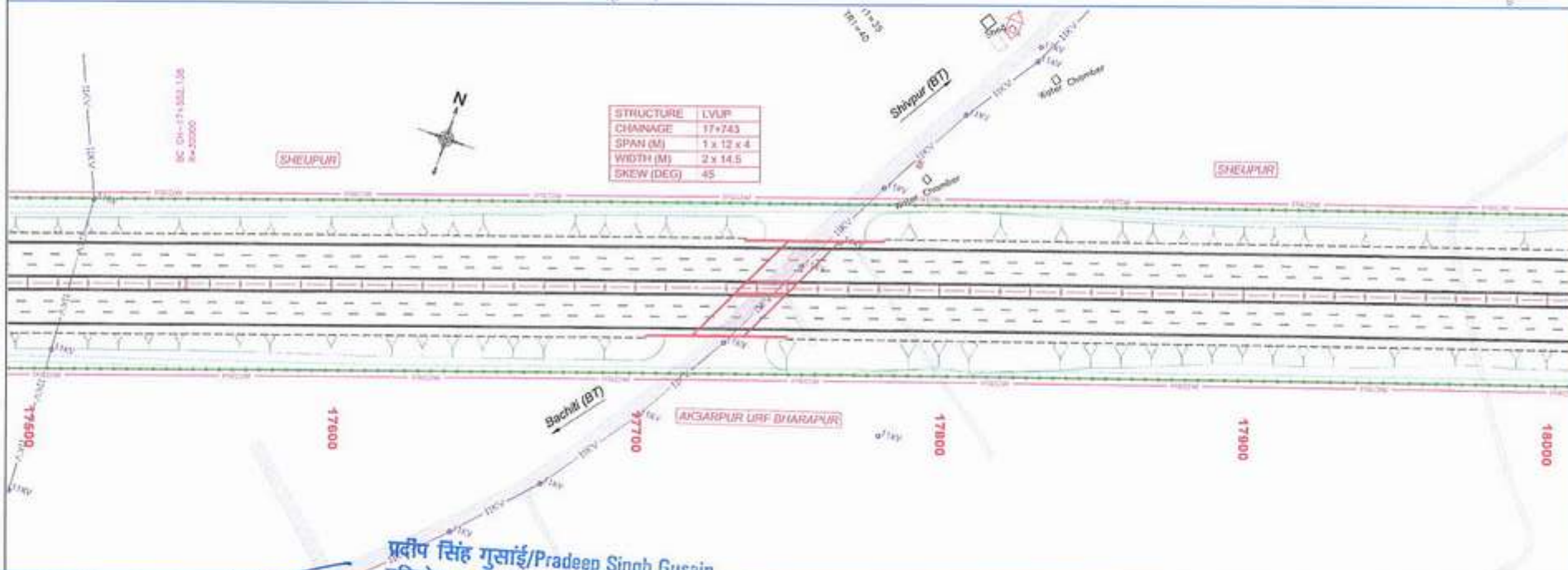
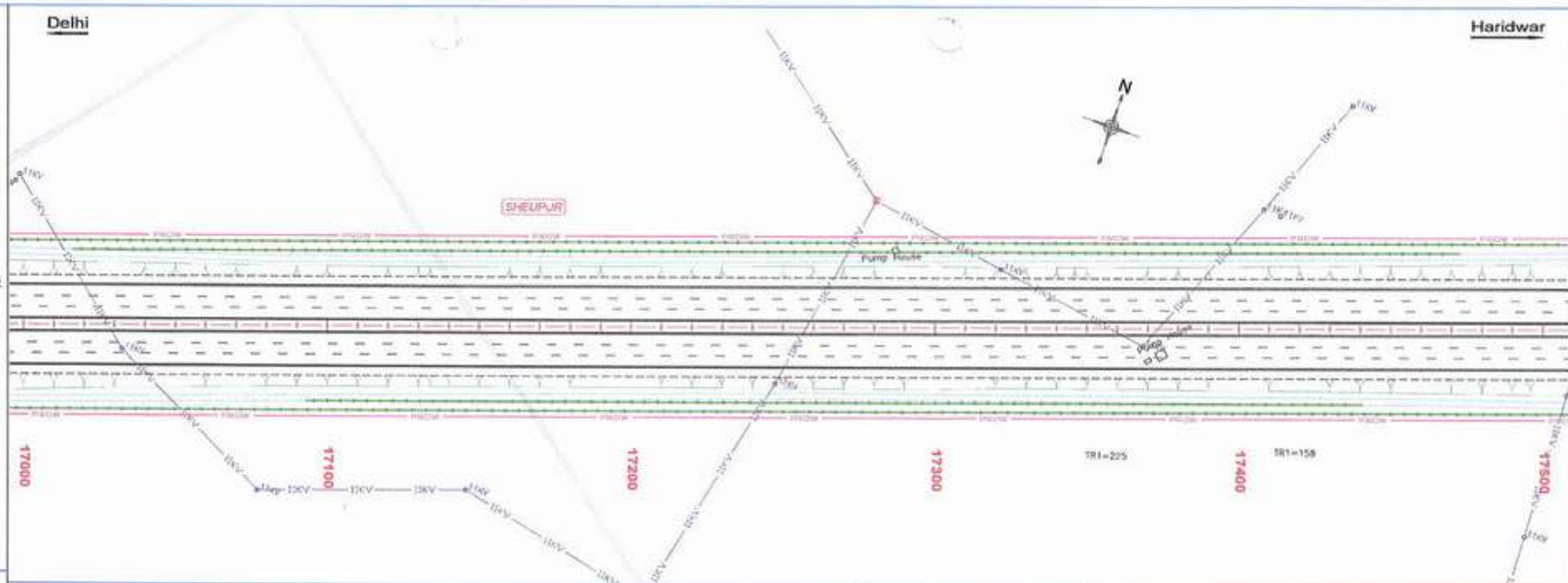
- Exist. Road
- [SP-R] : Semi Pucca Rest.
- [SP-C] : Semi Pucca Comm.
- [P-R] : Pucca Residential
- [P-C] : Pucca Commercial
- [K-R] : Katcha Residential
- [HUT] : Hut
- Poddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

- Toe Line
- Sh Edge
- C/W Edge
- Median
- C/W Edge
- Sh Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar



REV.	DATE	DESCRIPTION
RD	01-08-2022	FINAL DETAILED PROJECT REPORT

प्रदीप सिंह गुसाई/Pradeep Singh Gusein
 Project Director
 National Highways Authority of India
 Ministry of Road Transport & Highways

Spur to Haridwar from Delhi-Delhadun Greenfield Project
 Development of 4-lane access controlled Spur to Haridwar from
 Delhi-Delhadun Greenfield Economic Corridor in the state of Uttar Pradesh and
 Uttarakhand under Bharatmala Pariyojana

DRAWN BY: SUBAN
 DESIGNED BY: SANDEEP
 CHECKED BY: KAN REDDY
 APPROVED BY: BHUPENDER

FINAL
 DETAILED
 PROJECT
 REPORT

Scale	Scale	Scale	Scale
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-21	RD

LEGEND :

PLAN :

EXISTING

- Exist. Road
- SP-R : Semi Pucca Res.
- SP-C : Semi Pucca Comm.
- P-R : Pucca Residential
- P-C : Pucca Commercial
- K-R : Katcha Residential
- HUT : Hut
- Paddy Field
- Boundary Wall
- Fencing
- EROW : Existing RoW
- PROW : Proposed RoW

PROPOSED

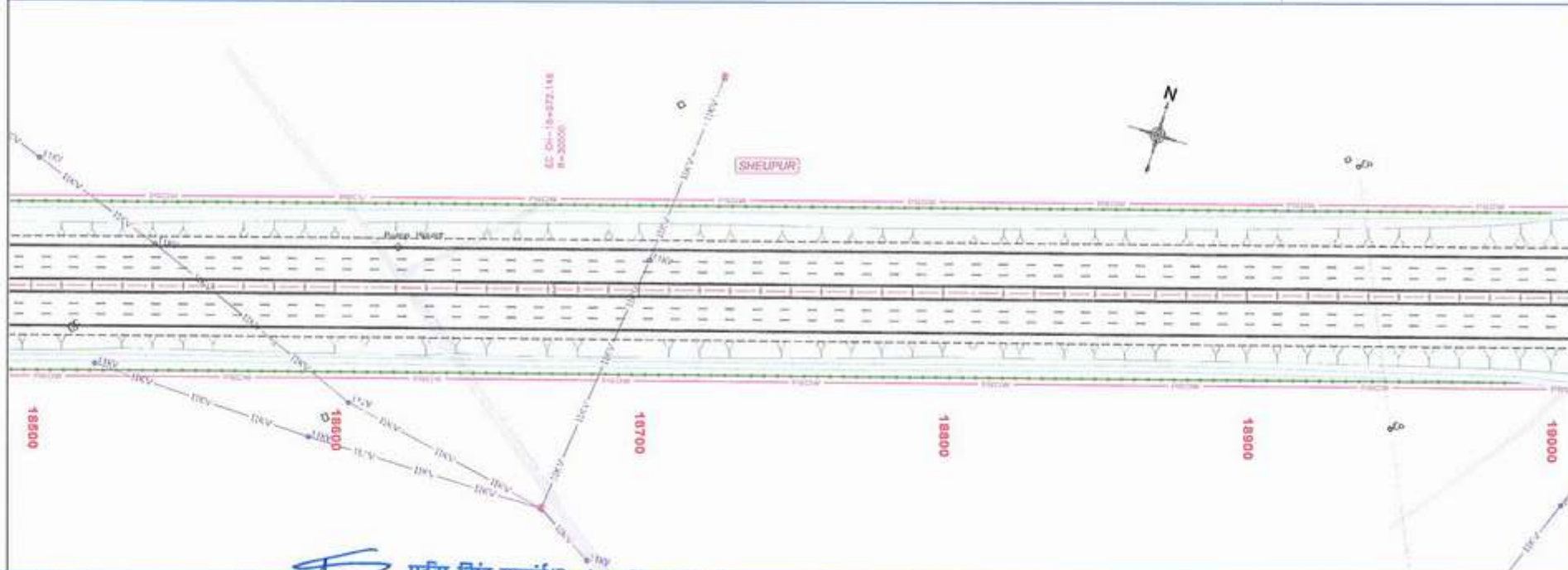
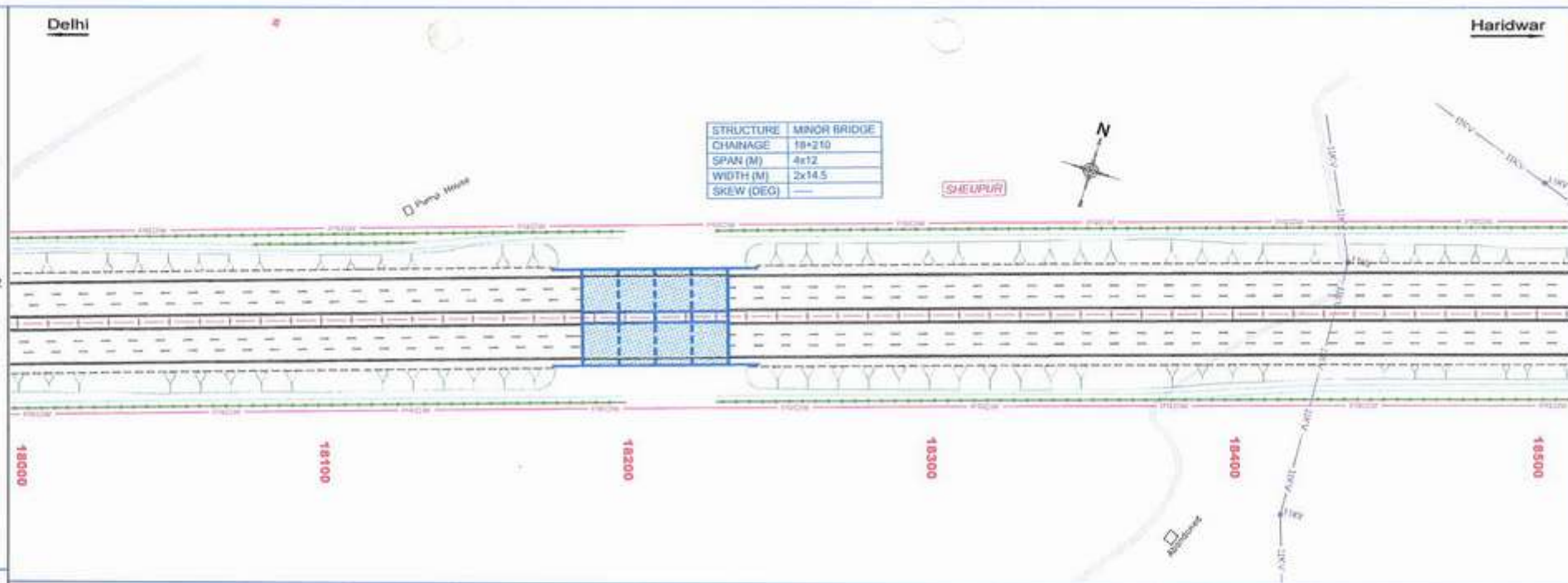
- Toe Line
- SH Edge
- C/W Edge
- Median
- C/W Edge
- SH Edge
- Toe Line
- Hor. Tangent Point
- Culvert
- Lined Drain
- Unlined Drain
- TOE / RE WALL
- PLANTATION

Delhi

Haridwar

STRUCTURE	MINOR BRIDGE
CHAINAGE	18+210
SPAN (M)	4x12
WIDTH (M)	2x14.5
SKEW (DEG)	—

SHEUPUR



REV.	DATE	DESCRIPTION
NO	01-09-2022	FINAL DETAILED PROJECT REPORT



प्रदीप सिंह गुप्ता/Pradeep Singh Gupta
परियोजना निदेशक/Project Director
राष्ट्रीय राजमार्ग निदेशक/Project Director
National Highway Authority of India

Spur to Haridwar from Delhi-Delhadun Greenfield Project
Development of 4-lane access controlled Spur to Haridwar from
Delhi-Delhadun Greenfield Project
Work under Bharatmala Pariyojana

DRAWN BY	SUNAM
DESIGNED BY	SANDEEP
CHECKED BY	NSN REDDY
APPROVED BY	SHUPENDER

FINAL
DETAILED
PROJECT
REPORT

Title		Median & Avenue Plantation		(Ch. 18+000 to Ch. 19+000)	
Size	Scale	Proj. No.	Rev.	NO	NO
A2	HOR-1:1000	HARIDWAR-SPUR-PLANTATION-22			