

**Bidding Documents
for
Dedicated Freight Corridor Project
(Western Corridor, Phase 1: Rewari - Vadodara)**

CIVIL, BUILDING and TRACK WORKS

**Contract Package 3 (R)
for
ICB No. CT P-3 (R): Iqbalgarh – Vadodara Section**

VOLUME V Reference Drawings (2/3)

Junction and Crossing (J&C) Station Track Layout Drawings, Civil Works

Issued on : 3rd June 2015

**Employer:
Dedicated Freight Corridor Corporation of India Ltd.
(A Government of India Enterprise)**

**NK Consortium
NK – JARTS – PBJ – NKI
Consulting Engineers**

(3rd June 2015)



BIDDING DOCUMENTS
FOR
CIVIL, BUILDING and TRACK WORKS
Contract Package 3 (R)
for
ICB No. CT P-3 (R): Iqbalgarh – Vadodara Section

SUMMARY TABLE OF CONTENTS

VOLUME I:

INVITATION FOR BIDS
SECTION 1 - INSTRUCTIONS TO BIDDERS
SECTION 2 - EVALUATION AND QUALIFICATION CRITERIA
SECTION 3 - BIDDING FORMS
SECTION 4 - LIST OF ELIGIBLE COUNTRIES OF JAPANESE ODA LOANS
SECTION 5 - CONDITIONS OF CONTRACT
SECTION 6 - FINANCIAL SUBMISSIONS
SECTION 7 – CONTRACT FORMS

VOLUME II:

SECTION 8 – EMPLOYER'S REQUIREMENTS

VOLUME III:

SECTION 9 - SPECIFICATIONS

VOLUME IV: (1/2)

SECTION 10 - DATA BOOK

VOLUME IV: (2/2)

SECTION 10 - DATA BOOK

VOLUME V: (1/3)

SECTION 11 - REFERENCE DRAWINGS
(General Drawings, Alignment)

VOLUME V: (2/3)

SECTION 11 - REFERENCE DRAWINGS
(Junction and Crossing (J&C) Station Track Layout Drawings, Civil Works)



BIDDING DOCUMENTS
FOR
CIVIL, BUILDING and TRACK WORKS
Contract Package 3 (R)
for
ICB No. CT P-3 (R): Iqbalgarh – Vadodara Section
n

SUMMARY TABLE OF CONTENTS

VOLUME V: (3/3)

SECTION 11 - REFERENCE DRAWINGS

(Civil Works, Track Works, Building Works Standards Detail)



The Project for Construction of Dedicated Freight Corridor (Western: Rewari – Vadodara Section) and Procurement of Electric Locomotives

Contract Package 3 (R)
for ICB No. CT P-3 (R): Iqbalgarh – Vadodara Section

VOLUME V (2/3): REFERENCE DRAWINGS

Title	Serial No.	Drawing.No.
1.General Drawings		
1.1 General Map of DFC	V-1-1-1	NKC-CTS-ALI-AL-00001
1.2 General Map of WESTERN DFC	V-1-2-1	NKC-CTS-ALI-AL-00002
1.3 General Map of Phase1	V-1-3-1	NKC-CTS-ALI-AL-00003
1.4 SEC Location Map	V-1-4-1	NKC-CTS-ALI-AL-00005
1.5 List of Traverse Control Points - Sector Boundary	V-1-5-1	-
2.Alignment		
2.1 Curve List	V-2-1-1 ~ 7	-
2.2 Gradient List	V-2-2-1 ~ 11	-
2.3 Break List	V-2-3-1	-
2.4 Drawing List	V-2-4-1 ~ 12	-
2.5 Detail Plan & Profiles	V-2-5-1 ~ 310	CEG/SACHIN-NADIAD/PLAN-PROFILE/S-5/9 to DLPN/MADAR-PALANPUR/PLAN-PROFILE
3.Junction and Crossing (J&C) Station Track Layout Drawings		
3.1 Station List and Schematic Diagram of Yard	V-3-1-1 ~ 6	-
3.2 Drawing List	V-3-2-1	-
3.3 Track Layout Drawings	V-3-3-1 ~ 29	CEG/SACHIN-NADIAD/PLAN-PROFILE/S-5/3 to DLPN/MADAR-PALANPUR/PLAN-PROFILE
3.4 Concept Plan of DFC Track Passing through IR Yards	V-3-4-1 ~ 18	-
4.Civil Works		
4.1 Drainage System	V-4-1-1	NKC-CTS-DWS-AL-00001
4.2 GADs of Bridge, RFO, ROB, RUB		
4.2.1 Structure List	V-4-2-1 ~ 25	-
4.2.2 Drawing List	V-4-2-26~ 42	-



The Project for Construction of Dedicated Freight Corridor (Western: Rewari – Vadodara Section) and Procurement of Electric Locomotives

Contract Package 3 (R)
for ICB No. CT P-3 (R): Iqbalgarh – Vadodara Section

VOLUME V (2/3): REFERENCE DRAWINGS

Title	Serial No.	Drawing.No.
4.2.3 GAD	V-4-2-43 ~ 238	ARISHA/SACHIN-NADIAD/ROB-2/1 to NKC-CTS-BRD-VD-00022
4.3.1 Indicative location of Signalling Cable in Normal Soil/Rocky Area	V-4-3-1	NKC-CTS-SGN-AL-00001
4.3.2 Standard Cross Section of Cut	V-4-3-2	NKC-CTS-EWS-AL-00002
4.4 Retaining Wall	V-4-4-1	NKC-CTS-EWS-AL-00003
4.5 Utility Drawings		
4.5.1 Utility Drawing 1(less than 33Kv)	V-4-5-1	-
4.5.2 Utility Drawing 2(less than 11Kv)	V-4-5-2	-
4.5.3 Utility Drawing 3(less than 1KV)	V-4-5-3	-
4.5.4 H-Pole for Underground Cable	V-4-5-4	-
4.6 Location of TSS, SP, SSP & ATS	V-4-6-1 ~ 16	CEG/SACHIN-NADIAD/PLAN-PROFILE/S-5/6 to DLPN/MADAR-PALANPUR/PLAN-PROFILE
5.Track Works		
5.1 GADs of Track Works		
5.1.1 Cross Section of 60kg Rail	V-5-1-1	NKC-CTS-TWS-AL-00006
5.1.2 PSC Sleeper	V-5-1-2	NKC-CTS-TWS-AL-00007
5.1.3 Rail-Sleeper Fastening	V-5-1-3	NKC-CTS-TWS-AL-00008
5.1.4 Rail Expansion Joint	V-5-1-4	NKC-CTS-TWS-AL-00009
5.1.5 Layout of Turnouts	V-5-1-5	NKC-CTS-TWS-AL-00010
5.1.6 RDSO Standard Drawings	V-5-1-6 ~ 12	RDSO/T-8222 & RDSO/T-8223 to RDSO/T-8229 TO 8237
5.2 Wayside Sign		
5.2.1 Kilometre Post, Hectometre Post and Gradient Post	V-5-2-1	NKC-CTS-TWS-AL-00002
5.2.2 Curve Board, Transition Curve Post and Fouling Mark	V-5-2-2	NKC-CTS-TWS-AL-00003
5.2.3 Bridge Number Plaque and Station Name Board	V-5-2-3	NKC-CTS-TWS-AL-00004

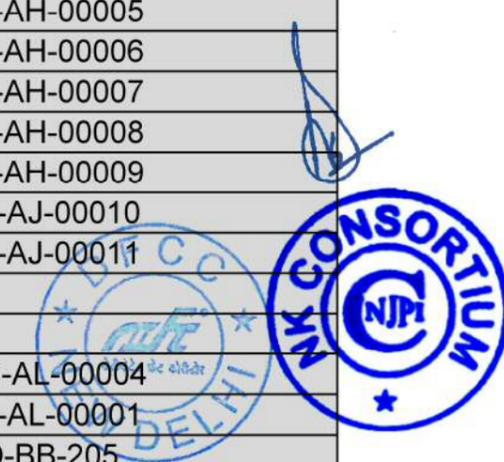


The Project for Construction of Dedicated Freight Corridor (Western: Rewari – Vadodara Section) and Procurement of Electric Locomotives

Contract Package 3 (R)
for ICB No. CT P-3 (R): Iqbalgarh – Vadodara Section

VOLUME V (2/3): REFERENCE DRAWINGS

Title	Serial No.	Drawing.No.
6. Building Works		
6.1 Building Works in Junction and Crossing Station		
6.1.1 Indicative drawing for Sub-Depot Break down	V-6-1-1	NKC-CTS-BLD-AL-00007
6.1.2 Indicative drawing for power Wagan shed(TWS)	V-6-1-2	NKC-CTS-BLD-AL-00008
6.1.3 Indicative Layout of track machine Depot	V-6-1-3	NKC-CTS-BLD-AL-00009
6.1.4 Indicative Layout of MMU	V-6-1-4	NKC-CTS-BLD-AL-00010
6.1.5 Indicative Plan for Crew Changing Room	V-6-1-5	NKC-CTS-BLD-AL-00011
6.1.6 Station Building for Crossing Stations	V-6-1-6	NKC-CTS-BLD-AL-00012
6.1.7 Station Building for Junction Stations	V-6-1-7	NKC-CTS-BLD-AL-00013
6.1.8 Service Building for Crossing Stations	V-6-1-8	NKC-CTS-BLD-AL-00014
6.1.9 Integrated Maintenance Depot (IMD) Ground Floor	V-6-1-9	NKC-CTS-BLD-AL-00015 (1 of 2)
6.1.10 Integrated Maintenance Depot (IMD) First Floor	V-6-1-10	NKC-CTS-BLD-AL-00015 (2 of 2)
6.1.11 Integrated Maintenance Sub Depot (IMSD)	V-6-1-11	NKC-CTS-BLD-AL-00016
6.2 Layout of Junction and Crossing Station Buildings		
6.2.1 Layout of Building at Makarpura Junction Station	V-6-2-1 ~ 3	NKC-CTS-BLD-VD-00001
6.2.2 Layout of Building at vasad Crossing Station	V-6-2-4 ~ 5	NKC-CTS-BLD-VD-00002
6.2.3 Layout of Building at Changa Crossing Station	V-6-2-6 ~ 7	NKC-CTS-BLD-VD-00003
6.2.4 Layout of Building at Timba Crossing Station	V-6-2-8 ~ 9	NKC-CTS-BLD-AH-00004
6.2.5 Layout of Building at Sabarmati South Junction Station	V-6-2-10~ 12	NKC-CTS-BLD-AH-00005
6.2.6 Layout of Building at Sabarmati North Junction Station	V-6-2-13 ~ 15	NKC-CTS-BLD-AH-00006
6.2.7 Layout of Building at Ghumasan Crossing Station	V-6-2-16 ~ 18	NKC-CTS-BLD-AH-00007
6.2.8 Layout of Building at Mahesana Crossing Station	V-6-2-19 ~ 21	NKC-CTS-BLD-AH-00008
6.2.9 Layout of Building at Malosana Junction Station	V-6-2-22 ~ 23	NKC-CTS-BLD-AH-00009
6.2.10 Layout of Building at Palanpur Junction Station	V-6-2-24 ~ 27	NKC-CTS-BLD-AJ-00010
6.2.11 Layout of Building at Chadotar Station	V-6-2-28 ~ 29	NKC-CTS-BLD-AJ-00011
7. Standards Detail		
7.1 All Weather Service Road	V-7-1-1	NKC-CTS-EWS-AL-00004
7.2 Fencing and Bench Mark	V-7-2-1	NKC-CTS-STN-AL-00001
7.3 Bridge Superstructure Standard Design Sample	V-7-3-1 ~ 9	DD-201 to DD-BB-205

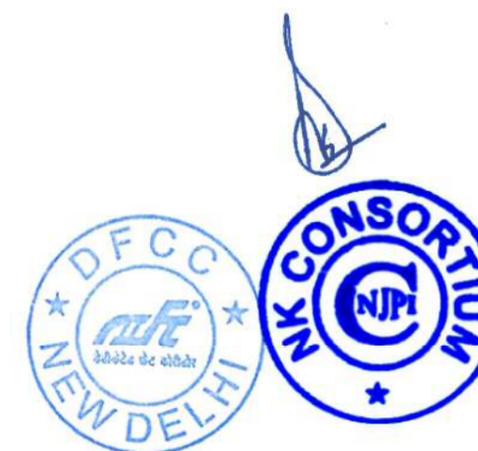


The Project for Construction of Dedicated Freight Corridor (Western: Rewari – Vadodara Section) and Procurement of Electric Locomotives

Contract Package 3 (R)
for ICB No. CT P-3 (R): Iqbalgarh – Vadodara Section

VOLUME V (2/3): REFERENCE DRAWINGS

Title	Serial No.	Drawing.No.
7.4 Box Culvert Standard Design Sample	V-7-4-1 ~ 9	DD-311 to DD-331
7.5 Step and Side Drain Cross Section	V-7-5-1	NKC-CTS-EWS-AL-00005
7.6 Indicative Drawing for FOB	V-7-6-1 ~5	CAO(C)JP/ /D-JJN
7.7 Earth Work around Foundation for Apparatus case Single & Half	V-7-7-1	NKC-CTS-EWS-AL-00006



The Project for Construction of Dedicated Freight Corridor (Western: Rewari –Vadodara Section)

The Reference Drawings were originally prepared by sub-consultants employed by DFCCIL, and reviewed/modified by NK Consortium. The Drawings are modified by NK Consortium Phase-1 with the following:

Horizontal Alignment

1. The AutoCAD files of the original FLS drawings provided by DFCCIL to NK Consortium Phase-1 for review were prepared in several files based on various independent local co-ordinate systems. These drawings were connected to prepare a continuous drawing for each sector based on the traverse points, existing IR alignment, structures/landmarks etc. in the drawings.
2. The lengths of transition curves have been modified to meet the design requirements and as given in the Curve List of Volume V: - Reference Drawings.
3. The primary and secondary control point surveys, traverse survey, and alignment survey to validate the Employer provided Data, shall be carried out by the Contractor., The exact chainage of the Project alignment and chainage for structure location shall accordingly be determined by the Contractor, and approved by the Engineer/Employer. The chainage of each curve points indicated on plan & profile drawings was re-calculated keeping the original chainage of the middle length of each curve so that the chainage of each structure locations is consistent with that indicated on the original FLS drawings.
4. Whenever, fine tuning is required during setting out of the alignment, the modification shall satisfy the required transition curve lengths for respective radius of curvature as indicated in the Curve List.
5. Station breaks are as provided in the Break List of Volume V - Reference Drawings.
6. The structure locations are based on the original chainage of the original FLS drawings provided by the Employer. The Contractor shall incorporate the transition curve length in the alignment and compute the exact chainage of each structure for construction .
7. The minimum horizontal curve radius is 700m for main line.

Vertical Alignment

1. The maximum permissible vertical gradient is 0.5% [1 in 200] duly compensated for curves.
2. Gradient in yards shall be 1 in 1200, however in exceptional cases, the steepest gradient permissible is 0.25% [1 in 400].
3. Vertical curve with radius of 4000m is applied when the difference in two successive grades exceeds 0.4%.
4. The gradient shall be suitably compensated (maximum permissible $-70/R\%$ where R is radius of curvature in meters) for horizontal curves.
5. Locations of Gradient Posts (vertical intersection points, VIP) were revised such that these are not located within the transition curves.
6. Chainage shown in the Plan is same as the chainage shown in the profile on the Plan and profile drawings does not consider the change in total length of alignment due to modification of the lengths of transition curves.

Right-of-Way

1. The ROW shown in the drawings has been plotted for various sections based on the data provided by the Employer in the form of (i) offsets from existing IR Track to edge of ROW (ii) ROW as given on AutoCAD drawings and (iii) the information contained in the Land Plans. ROW Pegs have been provided at site for reference. Linkage to offsets is provided in Employer's Requirements (Vol. II). The contractors are to verify ROW in respect of the offsets provided by DFCCIL.

General Arrangement Drawings (GADs) of Bridges/Structures

1. The GADs are modified by NK Consortium in viewpoint of design conforming requirements/standards authorized by RDSO. The Drawing prepared by NK Consortium Phase-1 provides his own title block. Drawing Titles of GADs have been modified by NK Consortium Phase-1 and the original drawing titles from DFCCIL are described in the list of drawings.

Others

1. Drawing Titles for each original FLS drawing have not been modified by NK Consortium Phase-1 and thus the chainage shown in the title may not reflect the exact chainage limits of the drawing. The chainage limits for each drawing are shown on top right corner of the drawing.
2. The terminology used as "Section" in the plan & profile drawings shall be read as "Sector".
3. Vol. V (Reference Drawings) are indicative and only for reference for prospective Bidders/Contractors.



The Project for Construction of Dedicated Freight Corridor (Western: Iqbalgarh – Vadodara Section) and Procurement of Electric Locomotives

STATION LIST AND SCHMEATIC DIAGRAM OF YARD

Names and Locations of Junction Stations and Crossing Stations Package-3 (R)

Name	Sector	Location of Station Area (Chainage of Each Sector)			Distance* (Approx.)	Remarks
		Start of Station Area	Centre of Station Area	End of Station Area		
MAKARPURA JUNCTION STATION	Sec.5	131.530	133.001	134.472	-	CPM VADODARA
VASAD CROSSING STATION		167.167	168.224	169.281	35.223	CPM VADODARA
CHANGA CROSSING STATION		195.594	196.651	197.708	28.427	CPM VADODARA
TIMBA CROSSING STATION	Sec.6	55.874	57.017	58.160	41.915	CPM AHMEDABAD
SABARMATI SOUTH JUNCTION STATION		79.394	80.692	81.990	23.675	CPM AHMEDABAD
SABARMATI NORTH JUNCTION STATION	Sec.7	97.052	98.635	100.217	9.743	CPM AHMEDABAD
GHUMASAN CROSSING STATION	Sec.8N	16.451	17.506	18.561	30.991	CPM AHMEDABAD
MAHESANA JUNCTION STATION		56.310	57.624	58.937	40.118	CPM AHMEDABAD
MALOSAN CROSSING STATION		99.558	100.673	101.787	43.049	CPM AHMEDABAD
PALANPUR JUNCTION STATION	Sec.9	10.636	12.150	13.663	19.150	CPM Ajmer
CHADOTAR SUB YARD		0.149	1.278	2.407	14.356 (From DFC Palanpur JS)	CPM AHMEDABAD

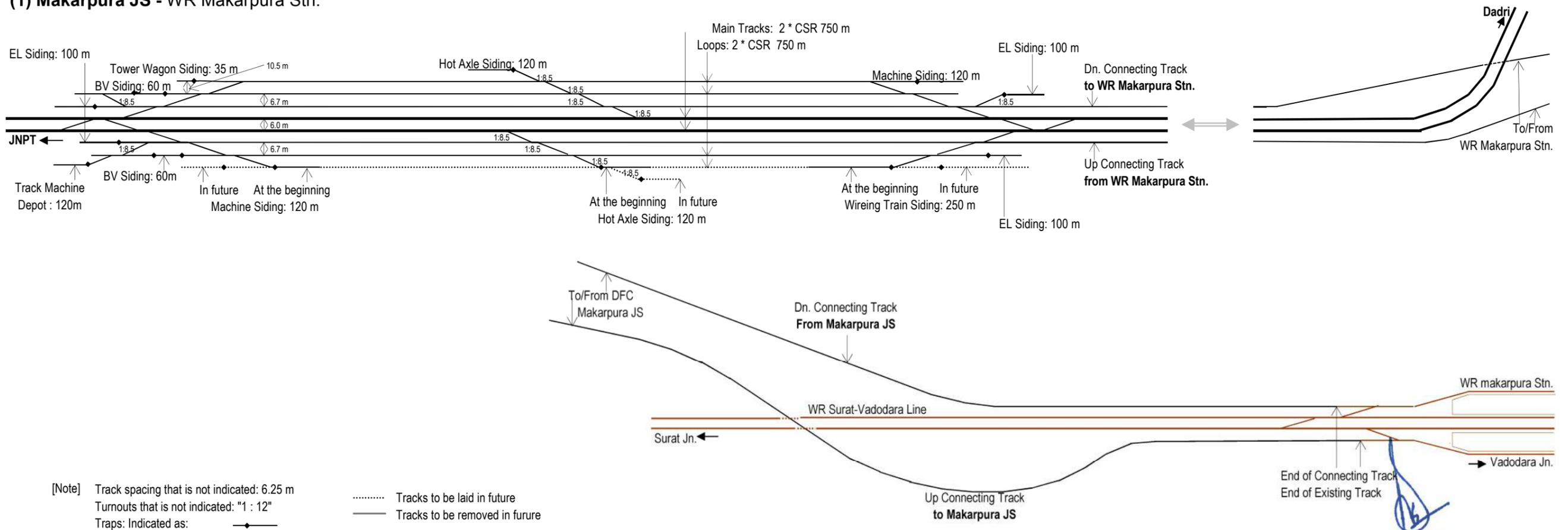
* **Note:** Distances do not reflect small breaks made in the review and are only for reference.



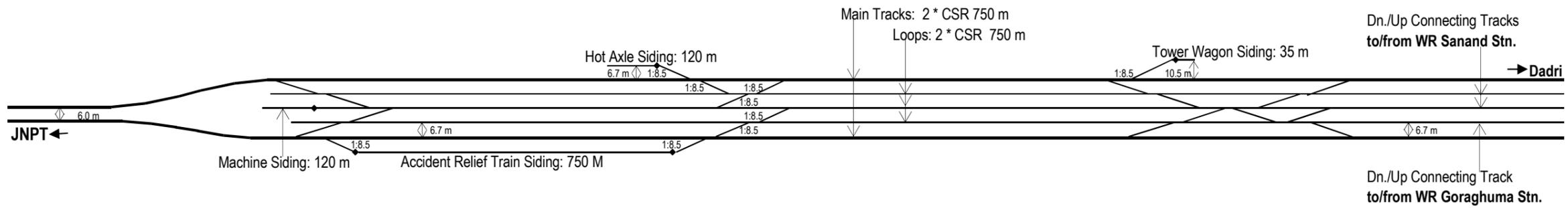
Schematic Diagram of Yard (Package-3)

1. Junction Station

(1) Makarpura JS - WR Makarpura Stn.

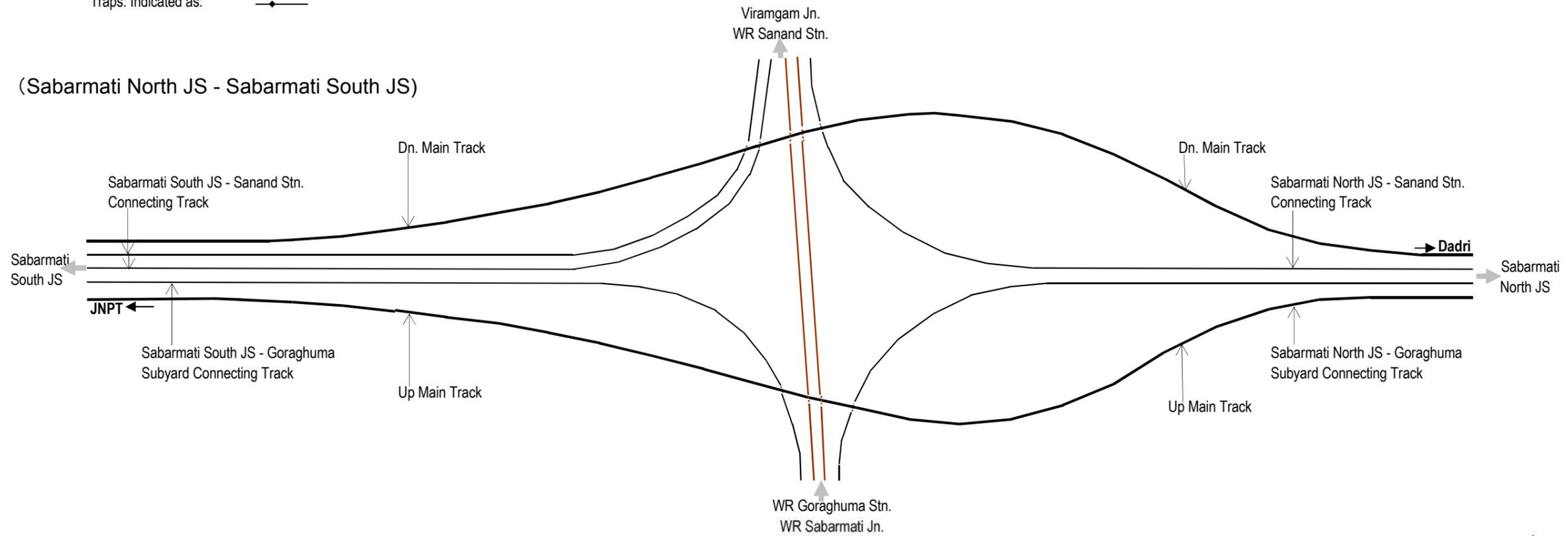


(2) Sabarmati South JS - WR Sanand Stn. /Goraghuma Stn.

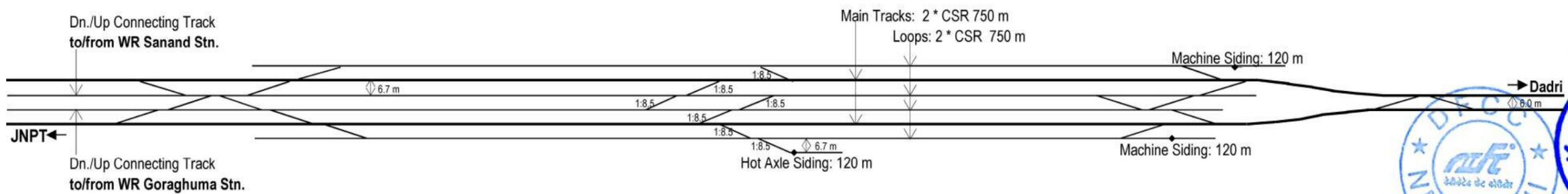


[Note] Track spacing that is not indicated: 6.25 m
 Turnouts that is not indicated: "1 : 12"
 Traps: Indicated as: —●—

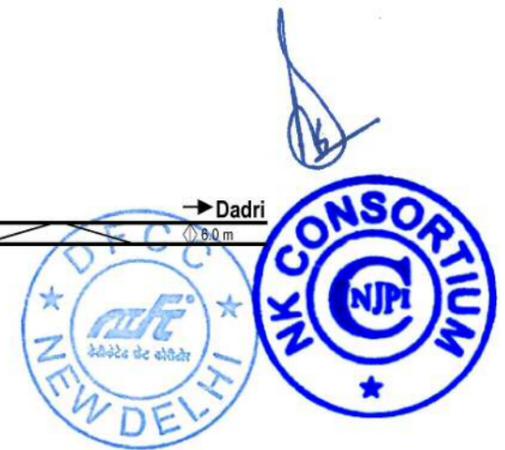
(Sabarmati North JS - Sabarmati South JS)



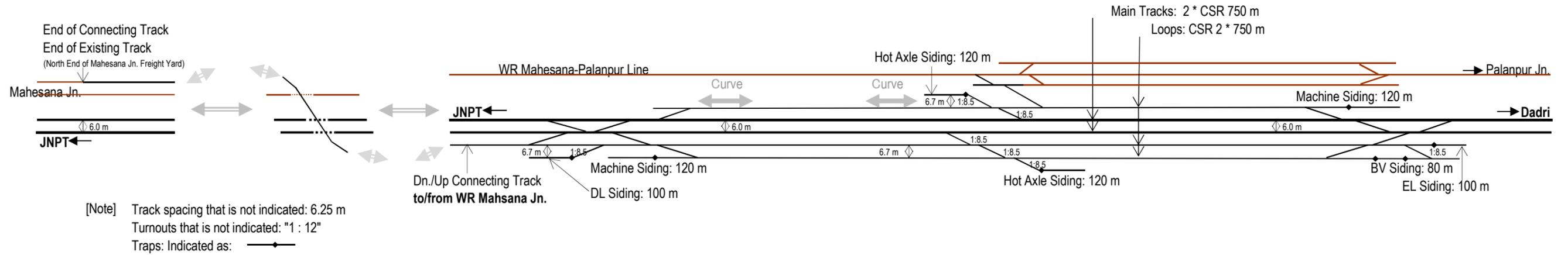
(3) Sabarmati North JS - WR Sanand Stn. /Goraghuma Stn.



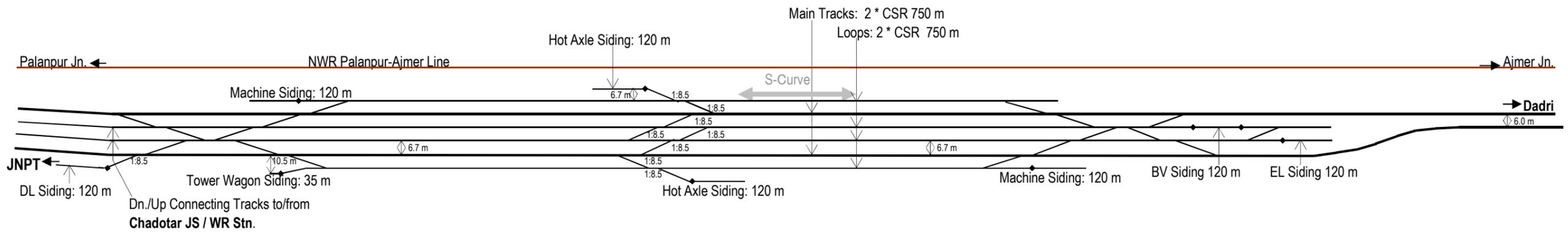
[Note] Track spacing that is not indicated: 6.25 m
 Turnouts that is not indicated: "1 : 12"
 Traps: Indicated as: —●—
 Tracks to be laid in future
 — Tracks to be removed in future



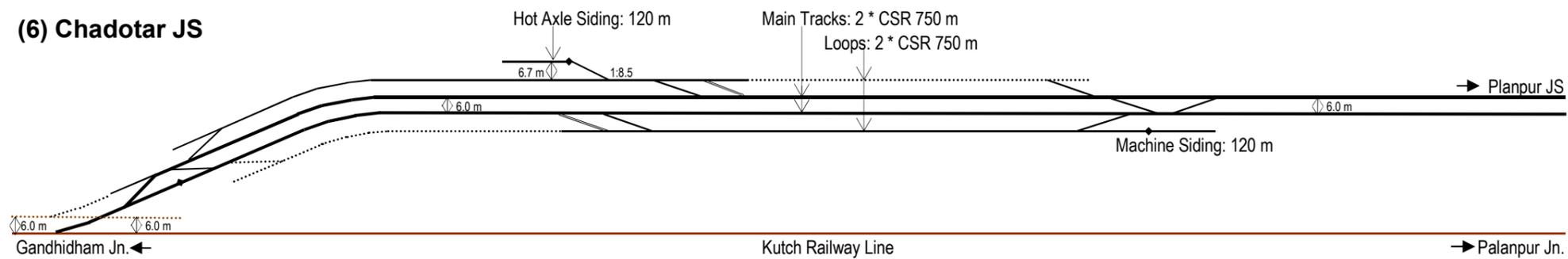
(4) Mahesana JS - WR Mahesana Stn.



(5) Palanpur JS



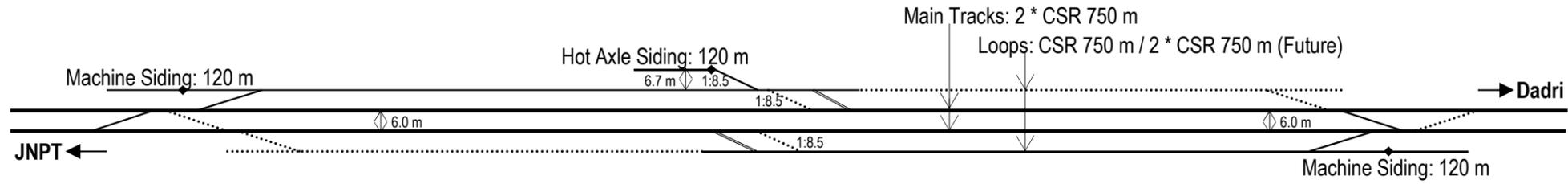
(6) Chadotar JS



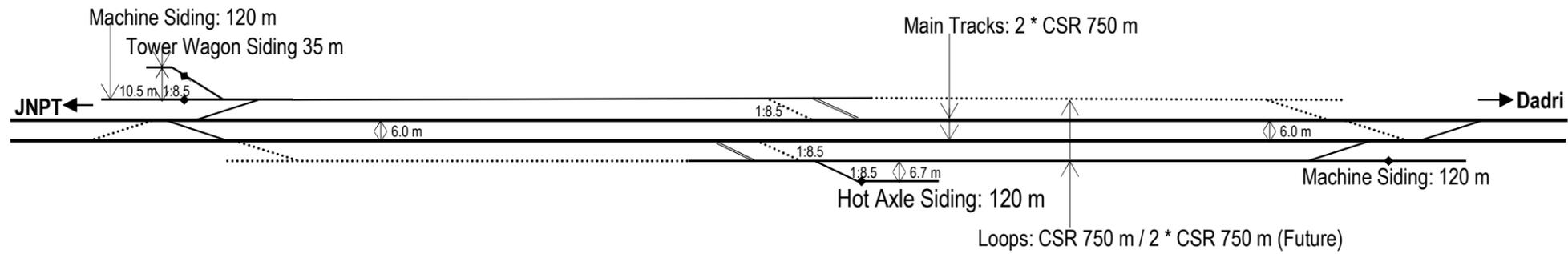
2. Crossing Station

(Makarpura JS)

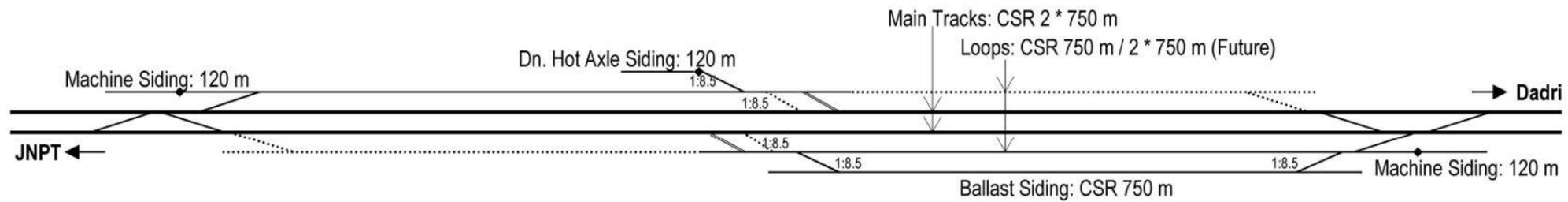
(1) Vasad CS



(2) Changa CS



(3) Timba CS



(Sabarmati South JS)

(Sabarmati North JS)

[Note] Track spacing that is not indicated: 6.25 m
 Turnouts that is not indicated: "1 : 12"
 Traps: Indicated as:

..... Tracks to be laid in future
 ——— Tracks to be removed in future

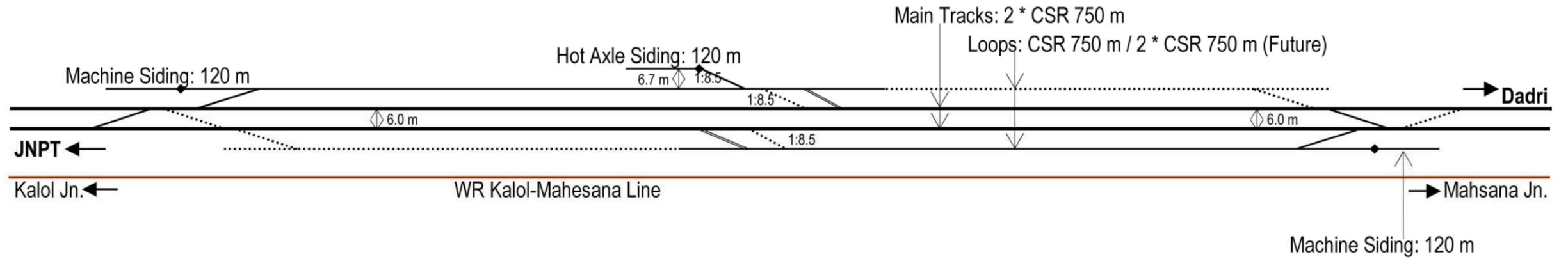


(Handwritten signature)

(Sabarmati South JS)

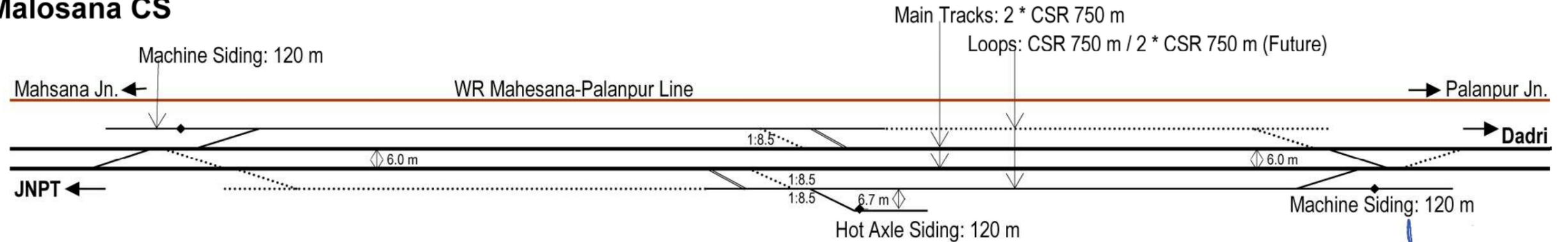
(Sabarmati North JS)

(4) Ghumasan CS



(Mahesana JS)

(5) Malosana CS



(Palanpur JS)

[Note] Track spacing that is not indicated: 6.25 m
 Turnouts that is not indicated: "1 : 12"
 Traps: Indicated as:

..... Tracks to be laid in future
 ——— Tracks to be removed in future



The Project for Construction of Dedicated Freight Corridor (Western: Rewari – Vadodara Section) and Procurement of Electric Locomotives

LIST OF STATION YARD DRAWINGS FOR PACKAGE NO. CT P-3(R): IQBALGARH-VADODARA SECTION

Serial No.	Number of Page	Original Drawing No.	Original Drawing Title	Combined with Drawing No.	Combined with Drawing Title	Remark	CPM
V-3-3- 1 ~ 3	3	-	MAKARPURA STATION YARD DIAGRAM	CEG/SACHIN-NADIAD/PLAN-PROFILE/S-5/8	YARD PLAN MAKARPURA JUNCTION STATION	-	VADODARA
V-3-3- 4 ~ 5	2	-	VASAD STATION YARD DIAGRAM	CEG/SACHIN-NADIAD/PLAN-PROFILE/S-5/4	YARD PLAN VASAD CROSSING STATION	-	VADODARA
V-3-3- 6 ~ 7	2	-	CHANGA STATION YARD DIAGRAM	-	YARD PLAN CHANGA CROSSING STATION	-	VADODARA
V-3-3- 8 ~ 9	2	-	TIMBA STATION YARD DIAGRAM	DFCC/RCPL/WCNP/BS-1/28 & DFCC/RCPL/WCNP/BS-2/01	YARD PLAN TIMBA CROSSING STATION	-	AHMEDABAD
V-3-3- 10 ~ 12	3	-	SABARMATI SOUTH SUB YARD DIAGRAM	DFCC/RCPL/WCNP/14/26 to DFCC/RCPL/WCNP/17/26	YARD PLAN SABARMATI SOUTH JUNCTION STATION	-	AHMEDABAD
V-3-3- 13 ~ 15	3	-	SABARMATI NORTH SUB YARD DIAGRAM	DFCC/RCPL/WCNP/BS-3/02 to DFCC/RCPL/WCNP/BS-3/04	YARD PLAN SABARMATI NORTH JUNCTION STATION	-	AHMEDABAD
V-3-3- 16 ~ 18	3	-	GHUMASAN STATION YARD DIAGRAM	RCPL/DFCC/WCNP/WAM-PAL/AP	YARD PLAN GHUMASAN CROSSING STATION	-	AHMEDABAD
V-3-3- 19 ~ 21	3	-	MAHESANA STATION YARD DIAGRAM	RCPL/DFCC/WCNP/WAM-PAL/AP	YARD PLAN MAHESANA JUNCTION STATION	-	AHMEDABAD
V-3-3- 22 ~ 23	2	-	MALOSANA STATION YARD DIAGRAM	RCPL/DFCC/WCNP/WAM-PAL/AP	YARD PLAN MALOSANA CROSSING STATION	-	AHMEDABAD
V-3-3- 24 ~ 27	4	-	NEW KARJODA STATION YARD DIAGRAM	DLPN/MADAR-PALANPUR/PLAN-PROFILE	YARD PLAN PALANPUR JUNCTION STATION	-	AJMER
V-3-3- 28 ~ 29	2	-	NEW CHADOTAR JUNCTION STATION	DFCC/PCL/NKC01	YARD PLAN CHADOTAR STATION	-	AHMEDABAD

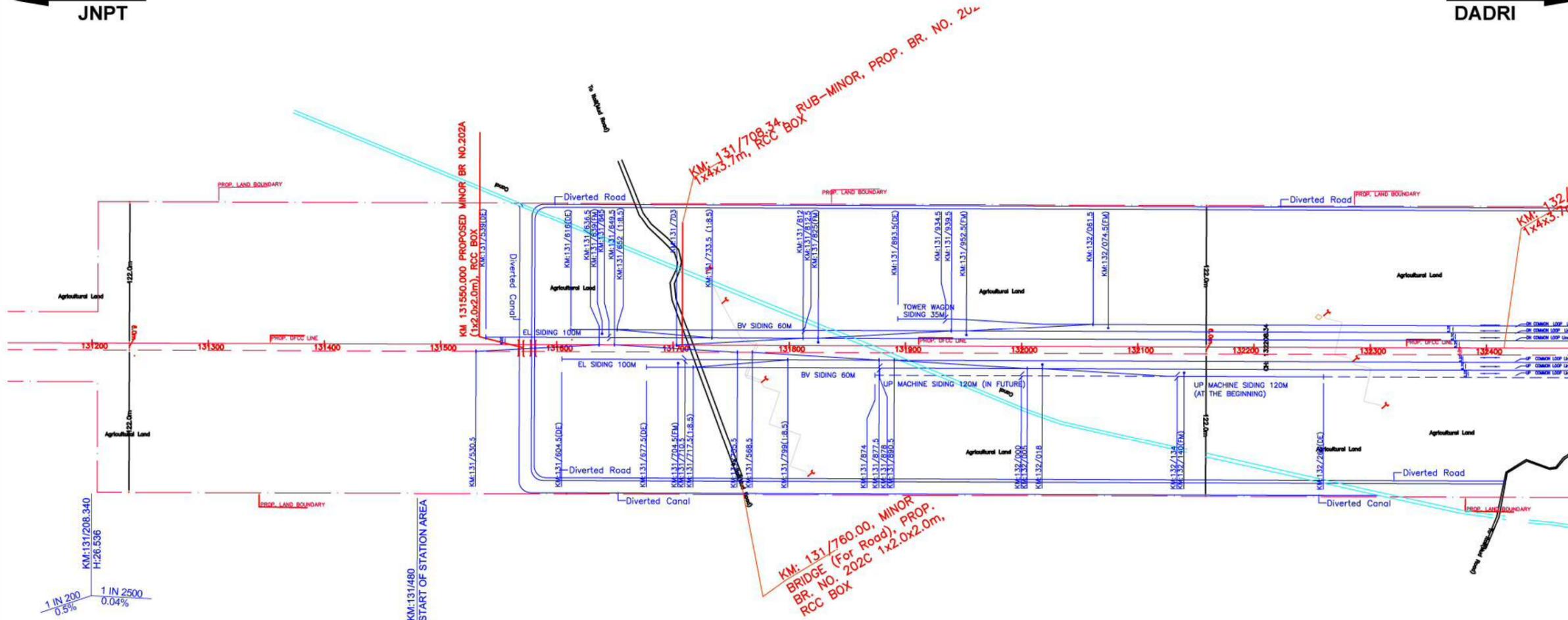


MAKARPURA JUNCTION STATION

(CENTRE OF STATION AREA: KM 133/001) (SEC.5)

VAREDIYA
JNPT

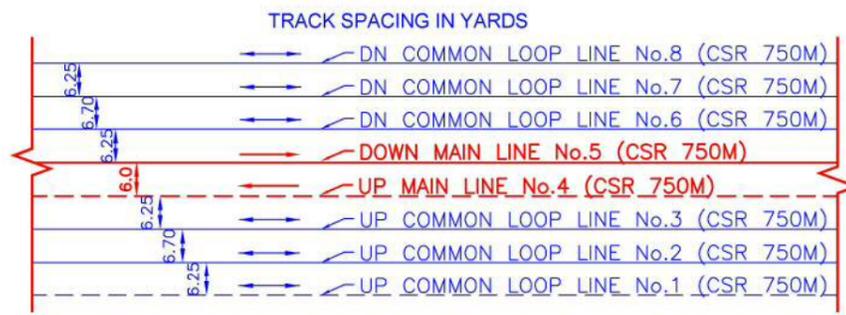
VASAD
DADRI



- NOTES :
1. ALL DIMENSIONS ARE IN 3 METER UNLESS OTHERWISE STATED.
 2. NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 3. PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 4. TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 5. OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 6. PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 7. PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 8. STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 9. TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE



--- Track laying work to be executed in the future

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by CEG Consulting Engineers Group Ltd. and reviewed/ modified by NK Consortium.



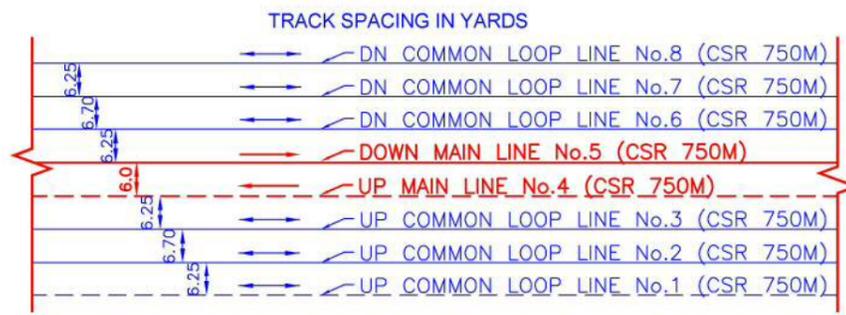
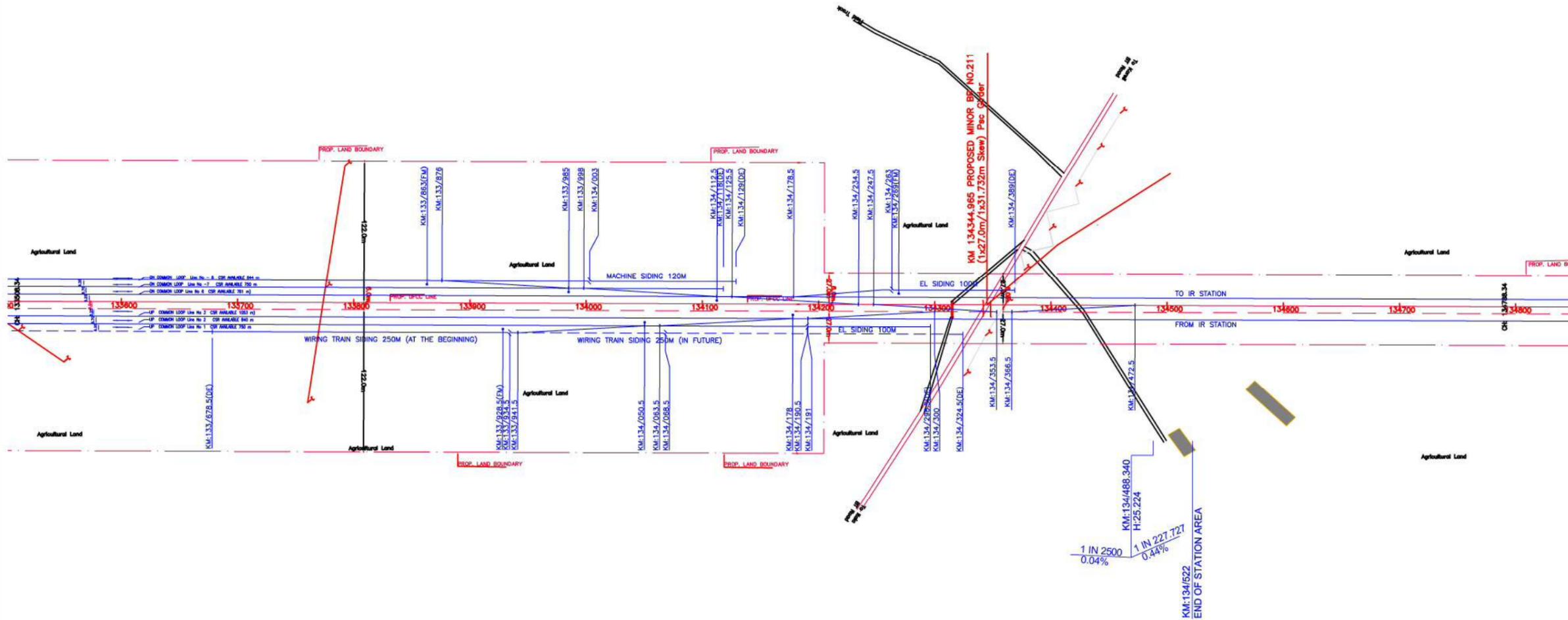
DESIGNATION	INITIALS OF APPROVING OFFICIALS
By: CEG/DFCC/MAKARPURA	
Checked: CEG/DFCC/MAKARPURA	
Project: WESTERN CORRIDOR	
Client: Indian Freight Corridor Corporation of India Ltd.	
Station: Makarpura Junction	
TITLE: YARD PLAN	
MAKARPURA JUNCTION STATION	
CONSULTING ENGINEER:	
CEG CONSULTING Engineers Group Ltd.	
E-12, Meji Colony, Malviya Nagar Jaipur-17	
Tel: +91-141- 2520699, 2521896, 2520556	
Fax: 2521899, E-Mail: ceg@ceginia.com	
PROJ. NO.: CEG/SACHIN-NWMD/PAH-PROFILE/S-5/8	
SCALE: 1:2000	DATE: JUNE 2015
DESIGNED BY: -	CHECKED BY: -
DRAWN BY: -	APPROVED BY: -
	SHEET NO.- 1 OF 3

MAKARPURA JUNCTION STATION

(CENTRE OF STATION AREA: KM 133/001) (SEC.5)

VAREDIYA
JNPT

VASAD
DADRI



--- Track laying work to be executed in the future

- NOTES :**
1. ALL DIMENSIONS ARE IN 3 METERS UNLESS OTHERWISE STATED.
 2. NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 3. PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 4. TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 5. OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 6. PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 7. PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 8. STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 9. TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

DESIGNATION	INITIALS OF APPROVING OFFICIALS
By: CEG/DFCC WARDHARA	
For: CEG/DFCC WARDHARA	
Project:	
Client:	WESTERN CORRIDOR
	Indian Freight Corridor Corporation of India Ltd.
	Baharaiya, Jaipur
TITLE	YARD PLAN
	MAKARPURA JUNCTION STATION
CONSULTING ENGINEER:	
CEG CONSULTING Engineers Group Ltd.	
E-12, Meji Colony, Malviya Nagar Jaipur-17	
Tel: +91-141- 2520699, 2521896, 2520556	
Fax: 2521899, E-Mail: ceg@cegindia.com	
DRG NO:-	CEG/SCHN-NWHD/PAH-PROFILE/S-5/8
SCALE:	1:2000
DATE:	JUNE 2015
DESIGN BY:-	CHECKED BY:-
DRAWN BY:-	APPROVED BY:-
REV. No.:-	SHEET NO:- 3 OF 3



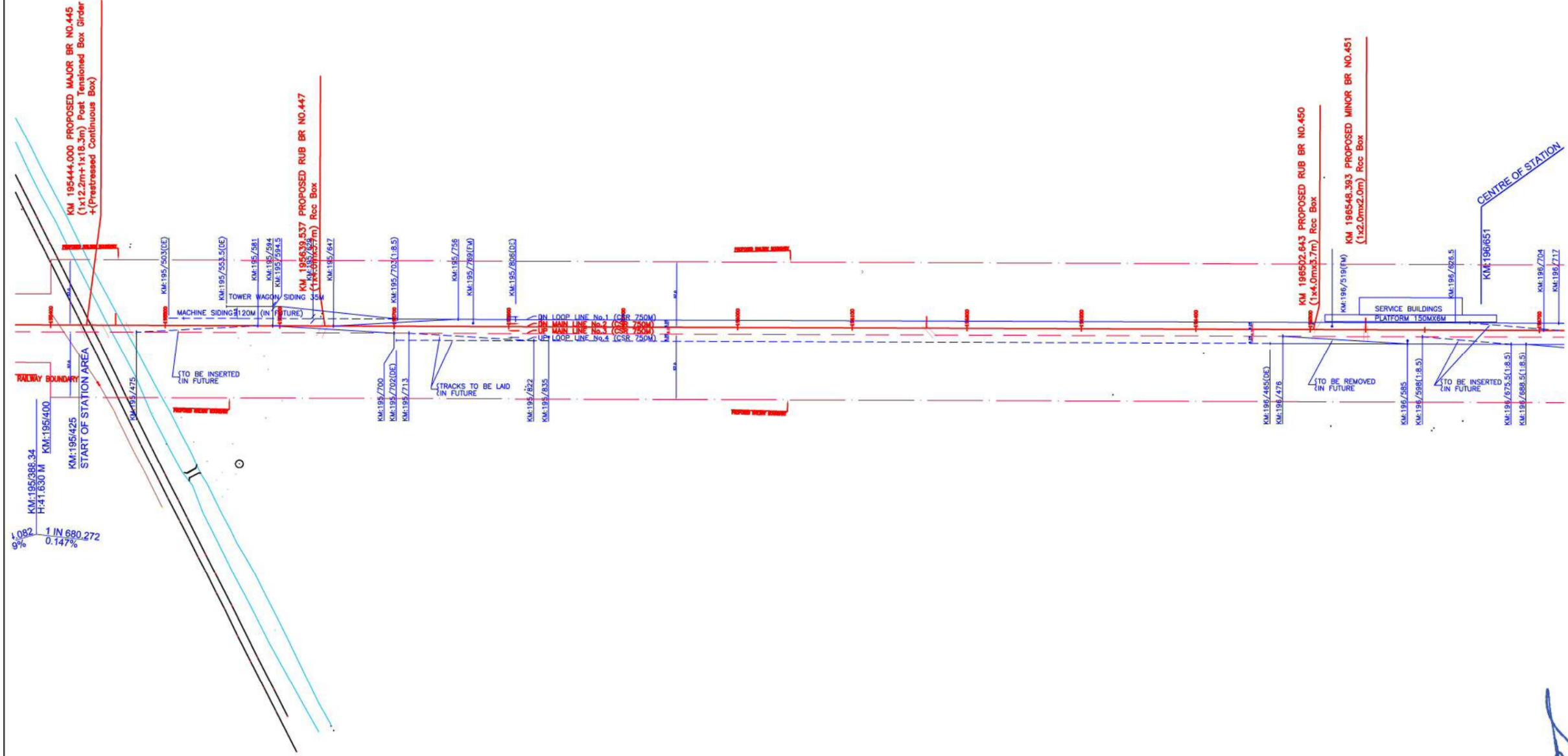
This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by CEG Consulting Engineers Group Ltd. and reviewed/ modified by NK Consortium.

CHANGA CROSSING STATION

(CENTRE OF STATION AREA: KM 196/651) (SEC.5)

← VASAD
JNPT

TIMBA
DADRI →

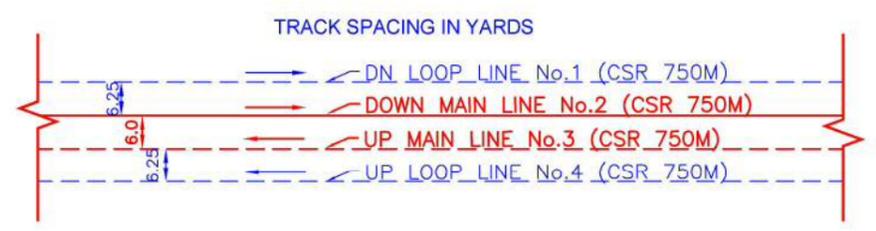


RAILWAY BOUNDARY
KM:195/386.34
H:41.630 M
KM:195/425
START OF STATION AREA
KM:195/400
KM:195/503(OE)
KM:195/553.5(OE)
KM:195/581
KM:195/584
KM:195/594.5
KM:195/537 PROPOSED RUB BR NO.447
(1x12.0m+1x18.3m) Post Tensioned Box Girder
(Pre-stressed Continuous Box)
KM:195/577
(1x12.0m+1x18.3m) Rec Box
KM:195/700
KM:195/702(OE)
KM:195/71.3
KM:195/756
KM:195/769(EO)
KM:195/806(OE)
KM:196/465(OE)
KM:196/476
KM:196/585
KM:196/588(1.8.5)
KM:196/625(OE)
KM:196/689.5(1.8.5)
KM:196/704
KM:196/717
1.082
9%
1 IN 680.272
0.147%

- NOTES
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 2. NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 3. PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 4. TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 5. OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 6. PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 7. PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 8. STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 9. TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE



--- Track laying work to be executed in the future

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by RITES and reviewed/ modified by NK Consortium.



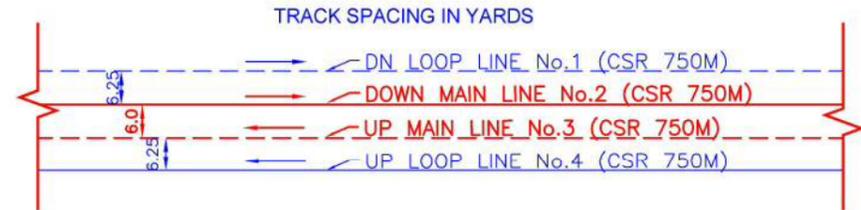
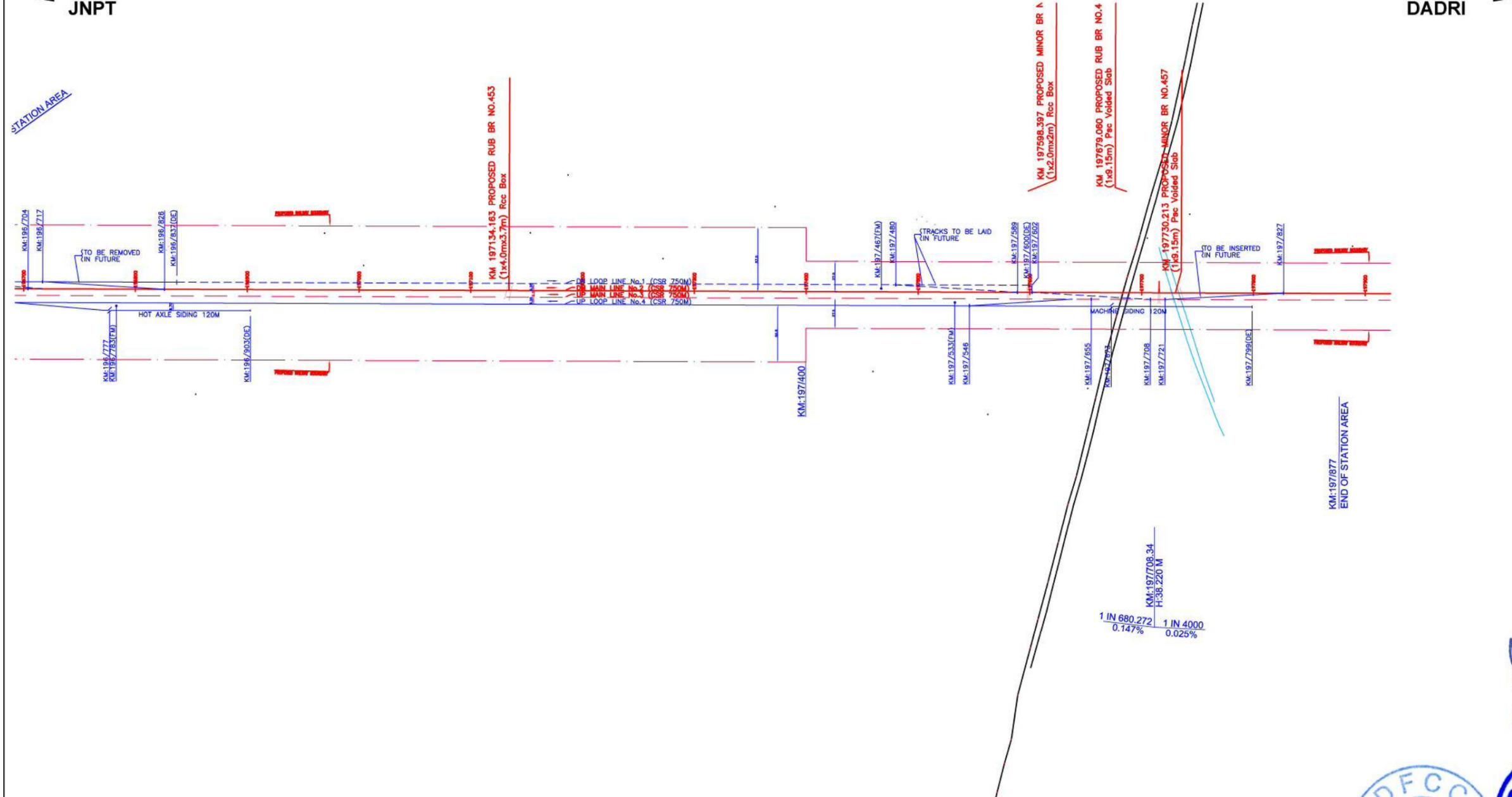
DESIGNATION	INITIALS OF APPROVING OFFICIALS	
CPM DEPT. WOODHAR		
WESTERN CORRIDOR		
Client: Dedicated Freight Corridor Corporation of India Ltd.		
Client Logo: DFC		
Client Logo: NK Consortium		
TITLE	YARD PLAN	
	CHANGA CROSSING STATION	
CONSULTING ENGINEER:	RITES	
	1, SECTOR-29, GURGAON - 122 001, (INDIA)	
	Tel : + 91 124 257 1666	
	Fax : + 91 124 257 1660	
DATE: JUNE 2015	REV. No.:-	
PROJECT NO.:	CHECKED BY:-	SHEET NO:- 1 OF 2
DESIGN BY:-	APPROVED BY:-	

CHANGA CROSSING STATION

(CENTRE OF STATION AREA: KM 196/651) (SEC.5)

← VASAD
JNPT

TIMBA
DADRI →



--- Track laying work to be executed in the future

- NOTES
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 2. NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 3. PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 4. TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 5. OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 6. PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 7. PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 8. STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 9. TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND	
	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

DESIGNATION	INITIALS OF APPROVING OFFICIALS	
CPM DFC WOODHAR		
WESTERN CORRIDOR		
Client: Dedicated Freight Corridor Corporation of India Ltd.		
TITLE	YARD PLAN	
	CHANGA CROSSING STATION	
CONSULTING ENGINEER:		
	1, SECTOR-29, GURGAON - 122 001, (INDIA)	
	Tel : + 91 124 257 1666	
	Fax : + 91 124 257 1660	
DATE	DATE	REV. No.
JUNE 2015	JUNE 2015	
DESIGN BY:-	CHECKED BY:-	SHEET NO:- 2 OF 2

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by RITES and reviewed/ modified by NK Consortium.



DATE	DATE	REV. No.
JUNE 2015	JUNE 2015	
DESIGN BY:-	CHECKED BY:-	SHEET NO:- 2 OF 2

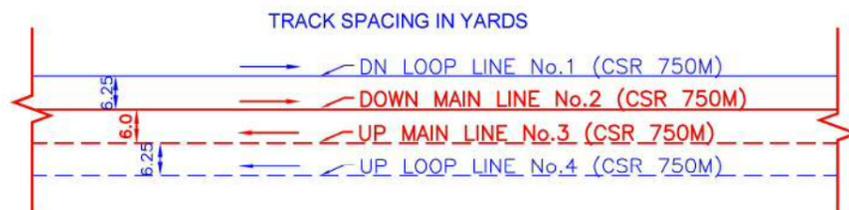
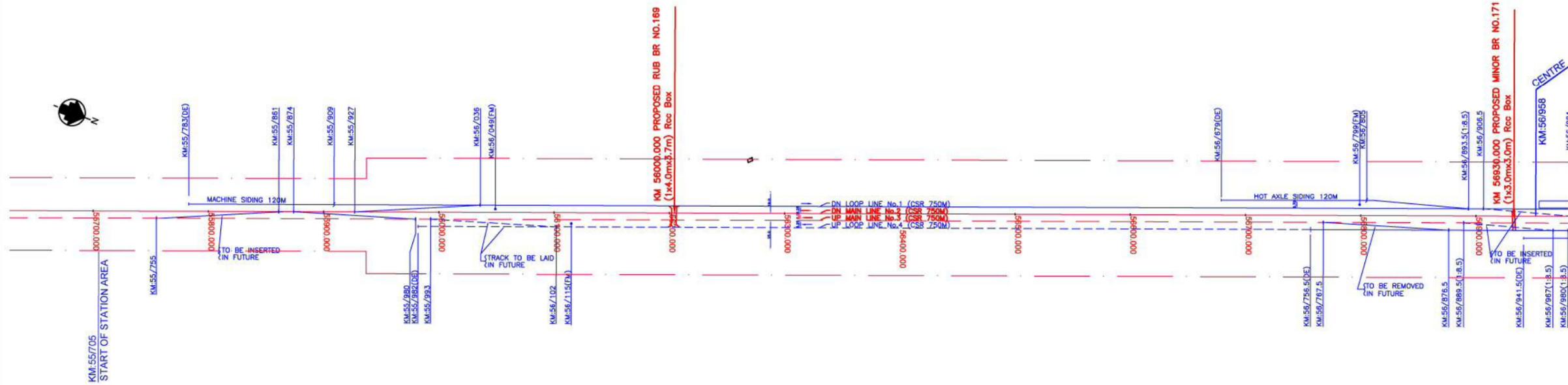
TIMBA CROSSING STATION

(CENTRE OF STATION AREA: KM 56/958) (SEC.6)

V-3-3-8

← CHANGA
JNPT

SABARMATI SOUTH
DADRI →



--- Track laying work to be executed in the future

LEGEND	
	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE



This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

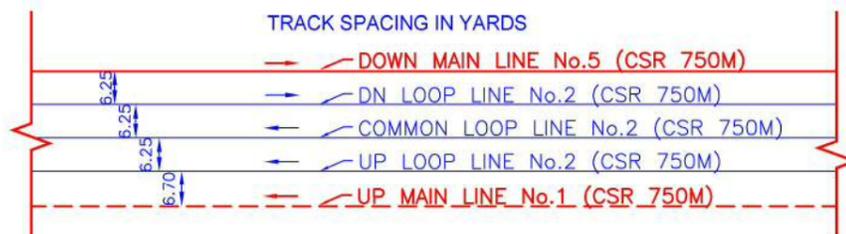
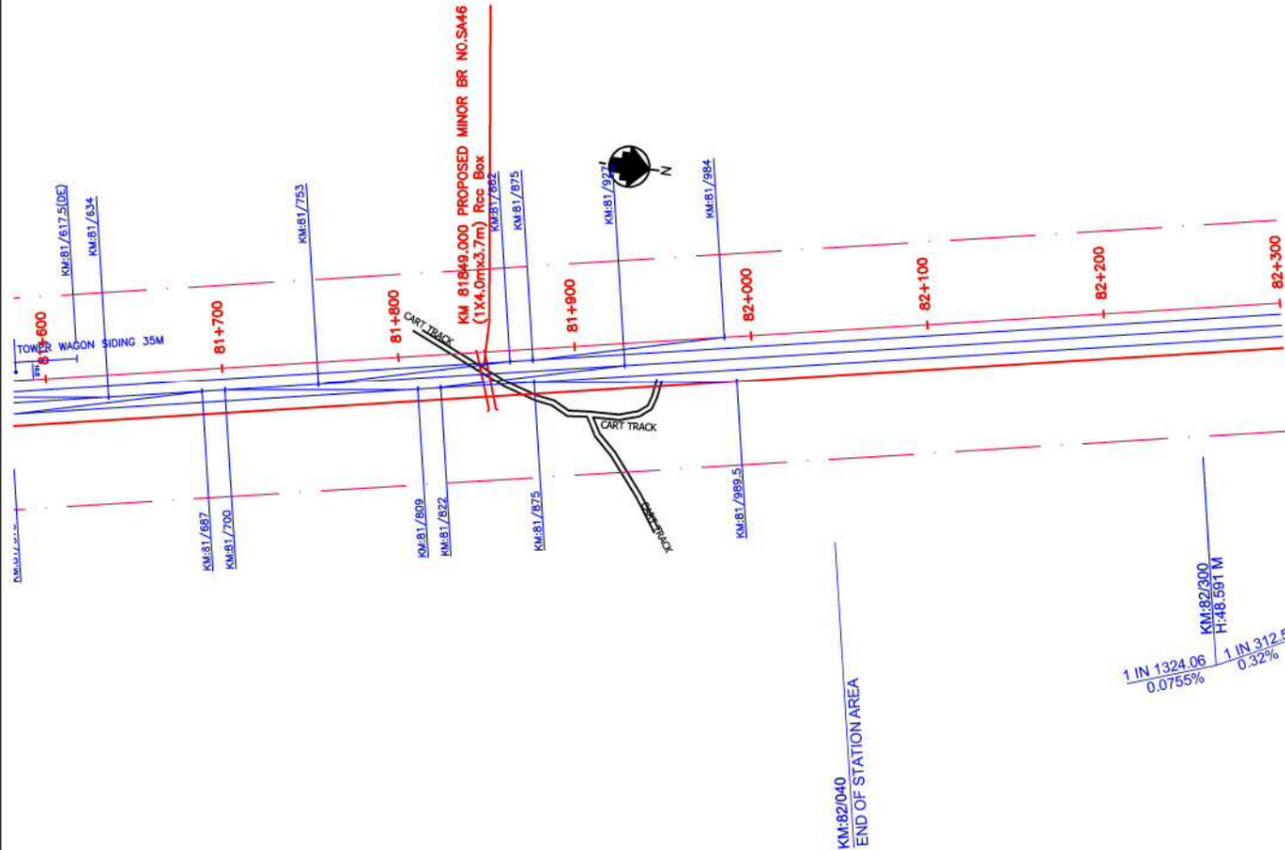
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM DFCC AMBARDHO	
By: CPM DFCC AMBARDHO	
NEW DFCC AMBARDHO	
PROJECT	
CLIENT	WESTERN CORRIDOR
	Indian Freight Corridor Corporation of India Ltd.
TITLE	YARD PLAN
	TIMBA CROSSING STATION
CONSULTING ENGINEER	RODIC CONSULTANTS Pvt. Ltd.
	H- 78, 1st FLOOR
	SECTOR - 63, NOIDA
	Tel: +91-120 - 4615900
	Fax: +91-120 - 4287707
	Email: contact@rodicoconsultant.com
DRG.No-	DFCC/NDP/NDP/BS-1/28 & DFCC/NDP/NDP/BS-2/01
SCALE :	DATE: JUNE 2015
PROJECT NO.:	REV. No. -
DESIGN BY:-	CHECKED BY:-
DRAWN BY:-	APPROVED BY:-
	SHEET NO- 1 OF 2

SABARMATI SOUTH JUNCTION STATION

(CENTRE OF STATION AREA: KM 80/692) (SEC.6)

← **TIMBA
JNPT**

**SABARMATI NORTH
DADRI** →



--- Track laying work to be executed in the future

- NOTES :-
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE



DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM DFC AMBADA	
WESTERN CORRIDOR	
Client: Dedicated Freight Corridor Corporation of India Ltd.	
Client: Western Railway	
TITLE: YARD PLAN	
SABARMATI SOUTH JUNCTION STATION	
CONSULTING ENGINEER: RODIC CONSULTANTS Pvt. Ltd.	
H-78, 1st FLOOR, SECTOR - 63, NOIDA, Tel: +91-120-4618500, Fax: +91-120-4287707, Email: contact@rodiconsultant.com	
DRAWN:- DFC/RCR/WCP/14/26 to DFC/RCR/WCP/17/26	
SCALE: 1:2000	DATE: JUNE 2015
PROJECT NO.:	SHEET NO:- 3 OF 3
DESIGN BY:-	CHECKED BY:-
DRAWN BY:-	APPROVED BY:-

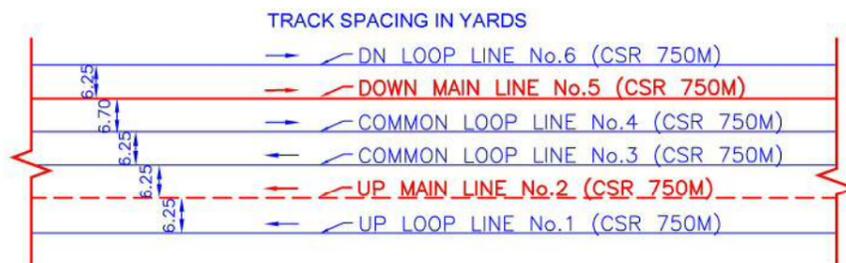
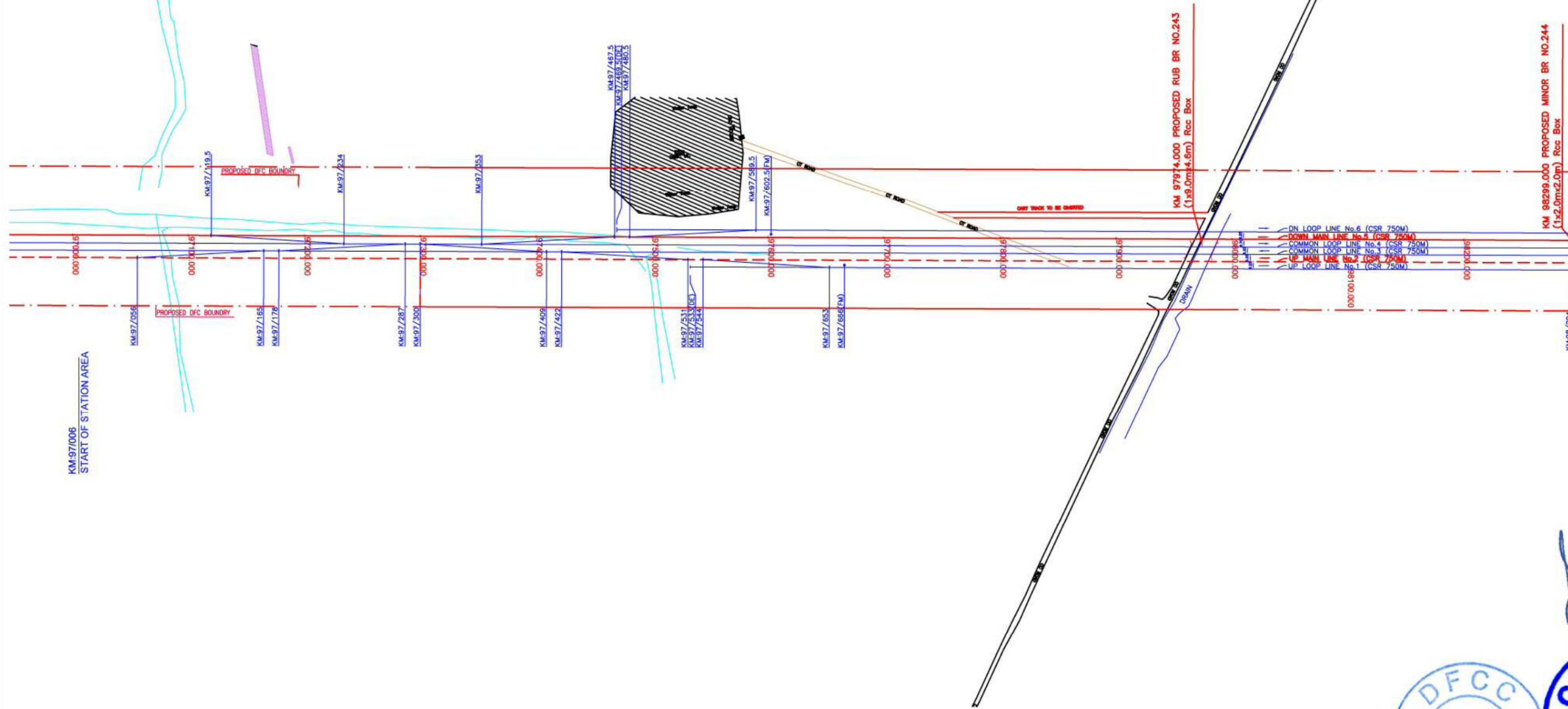
This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

SABARMATI NORTH JUNCTION STATION

(CENTRE OF STATION AREA: KM 98/636) (SEC.7)

← SABARMATI SOUTH
JNPT

GHUMASAN
DADRI →



--- Track laying work to be executed in the future

- NOTES :-**
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE



DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM DFCO MANAGER	
CPM DFCO ASSISTANT MANAGER	
CPM DFCO SUPERVISOR	
CPM DFCO ENGINEER	
CLIENT	WESTERN CORRIDOR
	Designated Freight Corridor Corporation of India Ltd.
TITLE	YARD PLAN
	SABARMATI NORTH JUNCTION STATION
CONSULTING ENGINEER	RODIC CONSULTANTS Pvt. Ltd.
	H-78, 1st FLOOR
	SECTOR - 63, NOIDA
	Tel: +91-120-4615500
	Fax: +91-120-4287707
	Email: contact@rodicconsultant.com
DRG/NO-	DFCC/NCP/WCP/RS-3/02 to DFCC/NCP/WCP/RS-3/04
SCALE	1:2000
DATE	JUNE 2015
REV. No.-	
DESIGN BY-	CHECKED BY-
DRAWN BY-	APPROVED BY-
	SHEET NO:- 1 OF 3

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

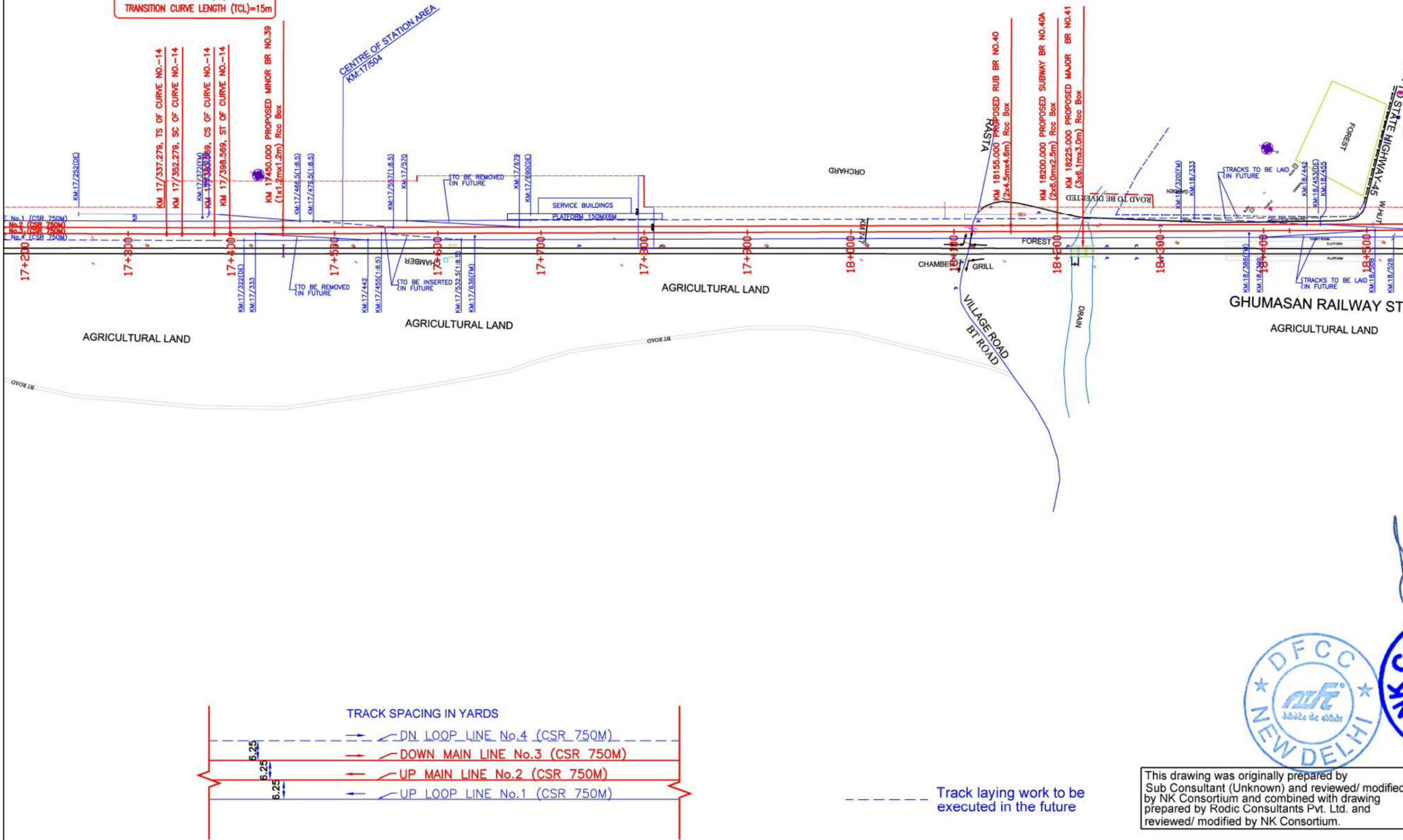
GHUMASAN CROSSING STATION

(CENTRE OF STATION AREA: KM 17/504) (SEC.8 N)

SABARMATI NORTH
JNPT

MAHESANA
DADRI

CURVE NO-14(R)
RADIUS (R)=7000m (0.25°)
DEF. ANGLE(A)=0°22'44"
TANGENT LENGTH (TL)=23.145m
TOTAL CURVE LENGTH (CL)=61.290m
TRANSITION CURVE LENGTH (TCL)=15m



- NOTES :-**
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
- NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM DFCO APPROVED	
WESTERN CORRIDOR	
Client: Dedicated Freight Corridor Corporation of India Ltd.	
TITLE: YARD PLAN	
STATION: SABARMATI NORTH JUNCTION STATION	
CONSULTING ENGINEER: RODIC CONSULTANTS Pvt. Ltd.	
H-78, 1st FLOOR SECTOR - 63, NOIDA Tel: +91-120-4615500 Fax: +91-120-4267707 Email: contact@rodicoconsultant.com	
SCALE: 1:2000	DATE: JUNE 2015
PROJECT NO.	SHEET NO.- 2 OF 3
DESIGN BY:-	CHECKED BY:-
DRAWN BY:-	APPROVED BY:-

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

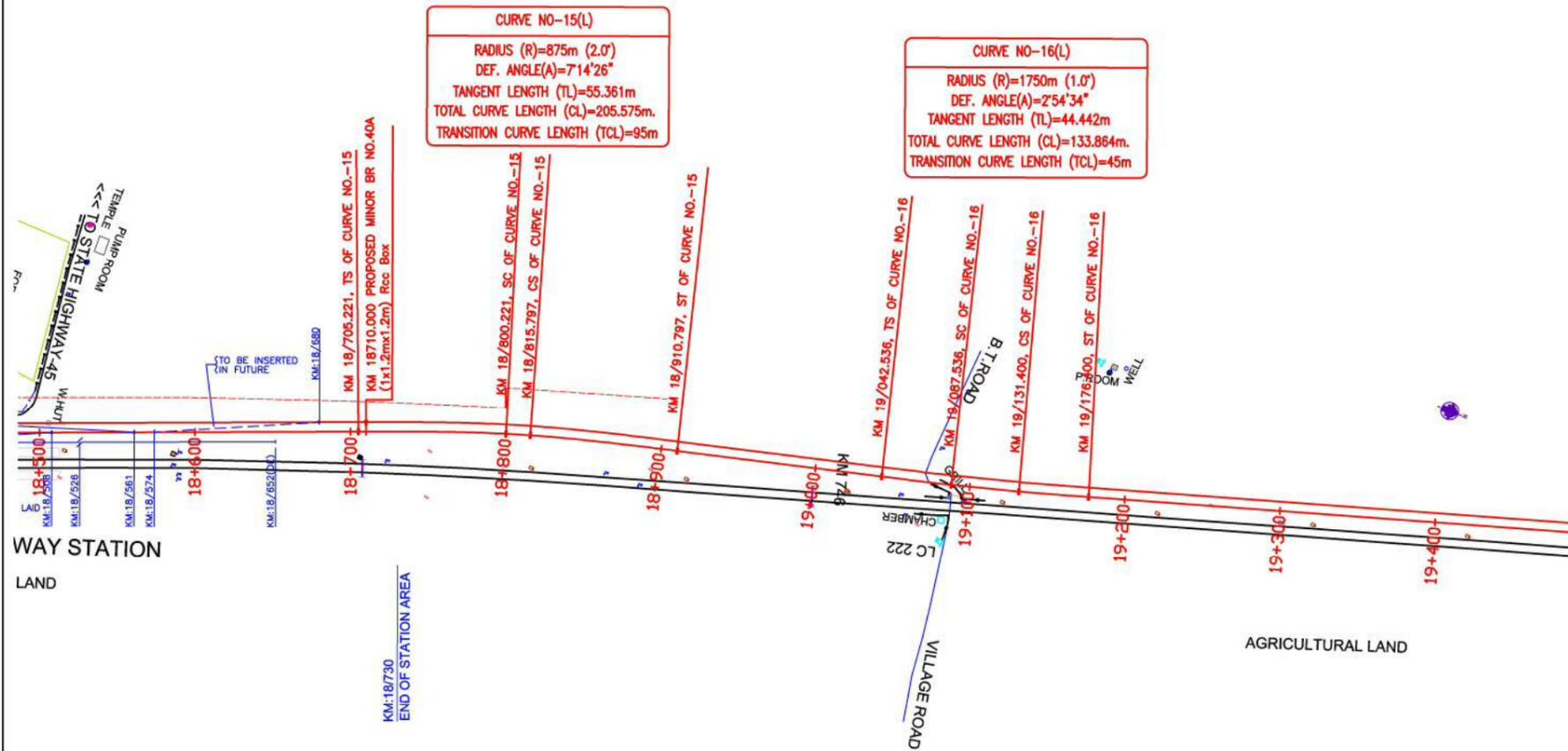
Track laying work to be executed in the future

GHUMASAN CROSSING STATION

(CENTRE OF STATION AREA: KM 17/504) (SEC.8 N)

SABARMATI NORTH
JNPT

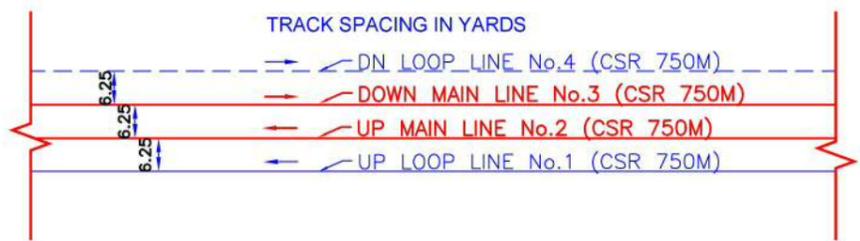
MAHESANA
DADRI



WAY STATION
LAND

KM:18/730
END OF STATION AREA

AGRICULTURAL LAND



Track laying work to be executed in the future

- NOTES :-
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND	
	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE



DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM DFC AMBEDKAR	
WESTERN CORRIDOR	
National Freight Corporation of India Ltd.	
SABARMATI NORTH JUNCTION STATION	
CONSULTING ENGINEER	
RODIC CONSULTANTS Pvt. Ltd.	
H-78, 1st FLOOR SECTOR - 63, NOIDA Tel: +91-120-4615900 Fax: +91-120-4267707 Email: contact@rodicoconsultant.com	
SCALE: 1:2000	DATE: JUNE 2015
PROJECT NO.	SHEET NO.- 3 OF 3
DESIGN BY:-	CHECKED BY:-
DRAWN BY:-	APPROVED BY:-

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

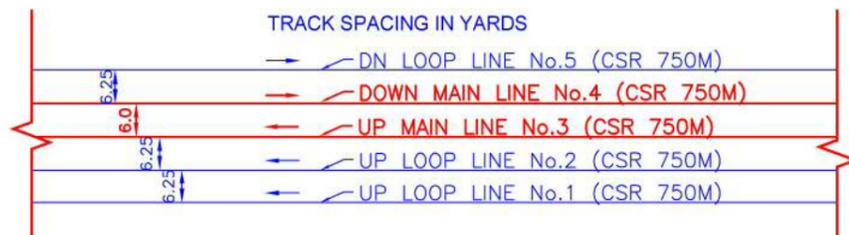
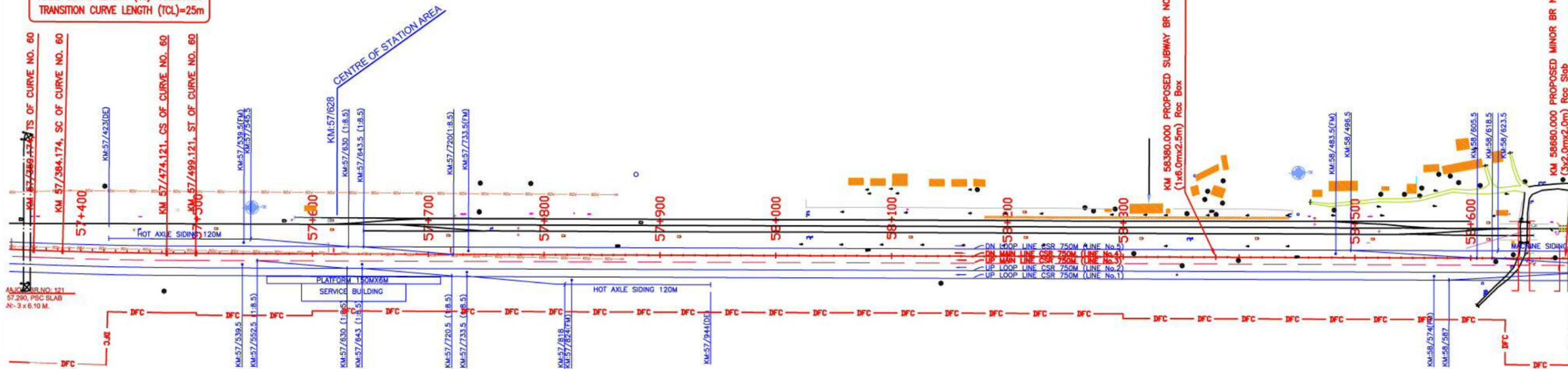
MAHESANA JUNCTION STATION

(CENTRE OF STATION AREA: KM 57/628) (SEC.8 N)

SABARMATI NORTH
JNPT

MALOSANA
DADRI

CURVE NO. 60 (L)
RADIUS (R)=3500m (0.5°)
DEF. ANGLE(A)=1°52'54.1"
TANGENT LENGTH (TL)=57.478m
TOTAL CURVE LENGTH (CL)=139.947m
TRANSITION CURVE LENGTH (TCL)=25m



--- Track laying work to be executed in the future

- NOTES :-**
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE



This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

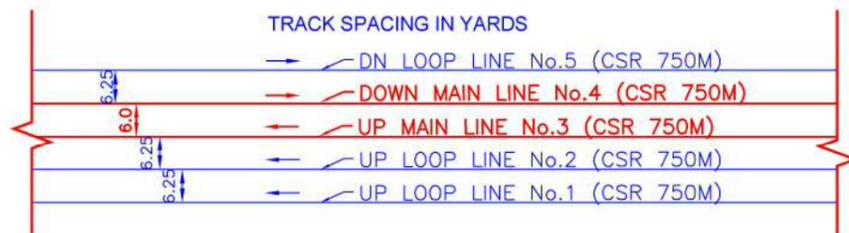
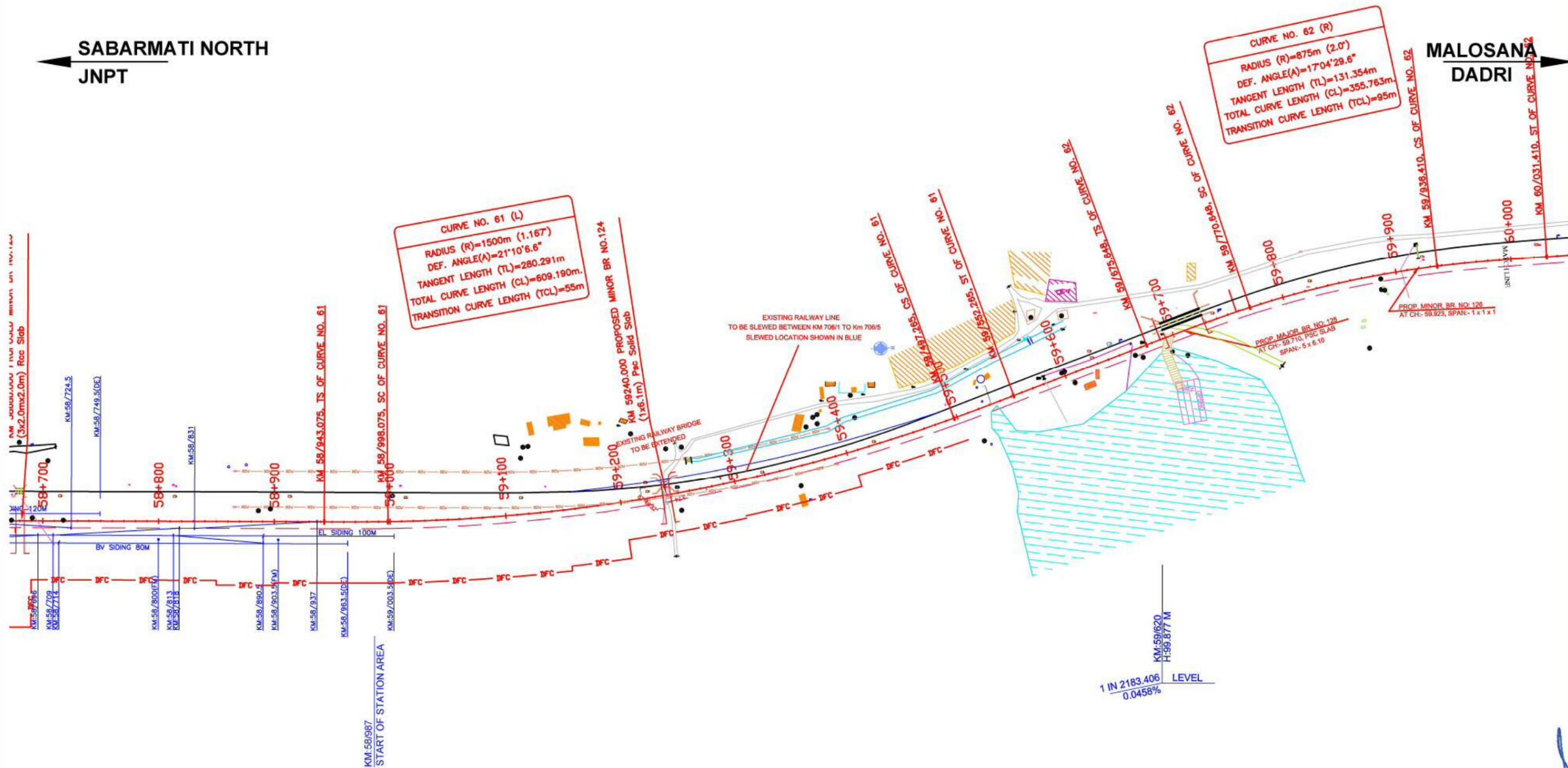
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM DFC MAHESANA	
WESTERN CORRIDOR	
Client: Dedicated Freight Corridor Corporation of India Ltd.	
TITLE: MAHESANA JUNCTION STATION	
CONSULTING ENGINEER: RODIC CONSULTANTS Pvt. Ltd.	
H- 78, 1st FLOOR SECTOR - 63, NOIDA Tel: +91-120-4615600 Fax: +91-120-4287707 Email: contact@rodiconsultant.com	
SCALE: 1:2000	DATE: SEPTEMBER 2012
PROJECT NO.	SHEET NO.- 2 OF 3
DESIGN BY:-	CHECKED BY:-
DRAWN BY:-	APPROVED BY:-

MAHESANA JUNCTION STATION

(CENTRE OF STATION AREA: KM 57/628) (SEC.8 N)

SABARMATI NORTH
JNPT

MALOSANA
DADRI



--- Track laying work to be executed in the future

- NOTES :-
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

DESIGNATION: CPM DFC MAHESANA

INITIALS OF APPROVING OFFICIALS:

CLIENT: Western Corridor Corporation of India Ltd.

TITLE: MAHESANA JUNCTION STATION

CONSULTING ENGINEER: RODIC CONSULTANTS Pvt. Ltd.

H-78, 1st FLOOR, SECTOR - 63, NOIDA, Tel: +91-120-4616500, Fax: +91-120-4287707, Email: contact@rodicconsultants.com

SCALE: 1:2000 DATE: SEPTEMBER 2012 REV. No.:-

PROJECT NO. SHEET NO:- 3 OF 3

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.



MALOSANA CROSSING STATION

(CENTRE OF STATION AREA: KM 100/729) (SEC.8 N)

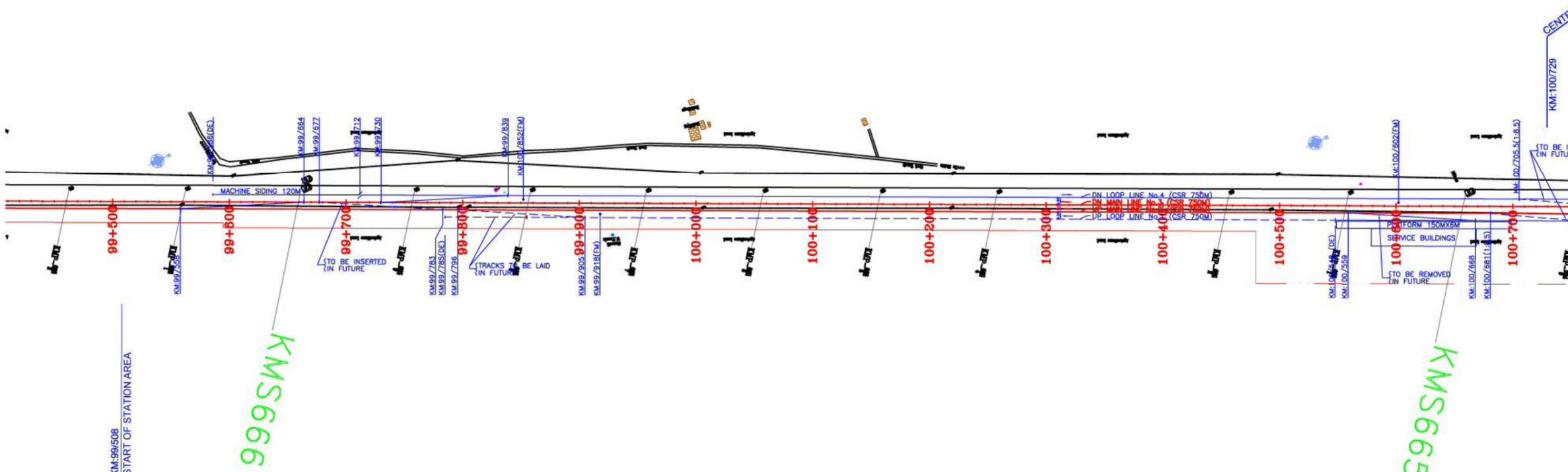
← MAHESANA
JNPT

PALANPUR
DADRI →

- NOTES :-
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

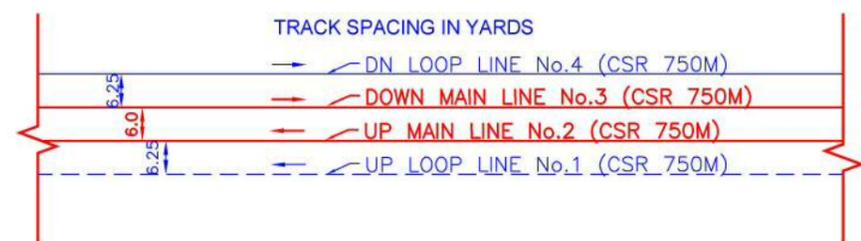
	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE



KM:99/508
START OF STATION AREA

999S666

999S665



--- Track laying work to be executed in the future

This drawing was originally prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.



DESIGNATION: _____ INITIALS OF APPROVING OFFICIALS: _____

CPM DFC ARRANGEMENT

WESTERN CORRIDOR

Client: Dedicated Freight Corridor Corporation of India Ltd.

Client Logo:

Client Logo:

Client Logo:

TITLE: MALOSANA CROSSING STATION

CONSULTING ENGINEER: RODIC CONSULTANTS Pvt. Ltd.

H-78, 1st FLOOR
SECTOR - 63, NOIDA
Tel: +91-120-4615900
Fax: +91-120-4267707
Email: contact@rodiconsultant.com

Scale: 1:12000 DATE: JUNE 2015 REV. No: -

PROJECT NO: _____ SHEET NO: - 1 OF 2

DESIGN BY: _____ CHECKED BY: _____

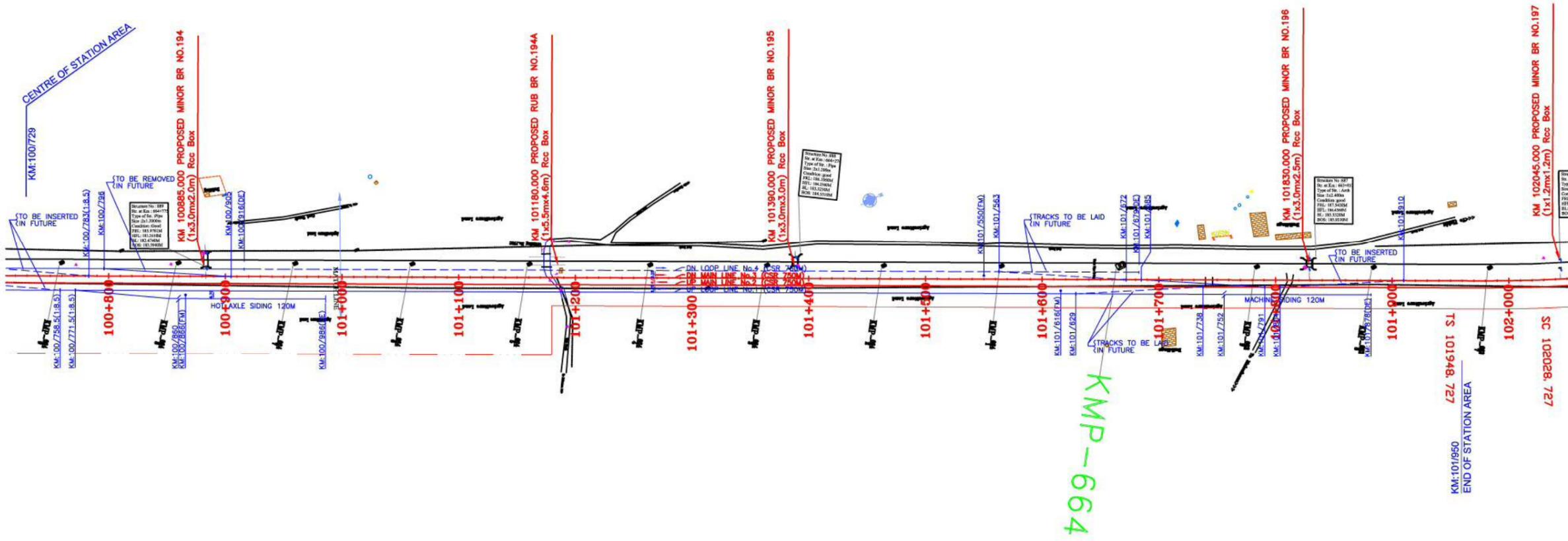
DRAWN BY: _____ APPROVED BY: _____

MALOSANA CROSSING STATION

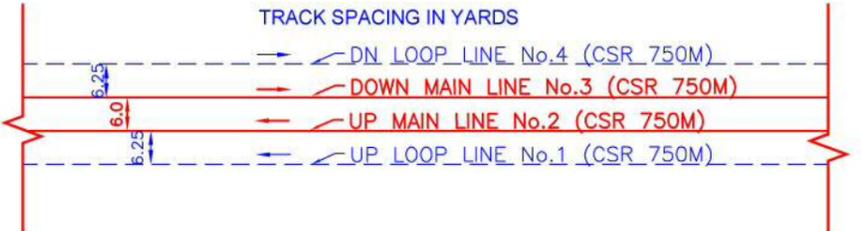
(CENTRE OF STATION AREA: KM 100/729) (SEC.8 N)

← MAHESANA
JNPT

PALANPUR
DADRI →



KMP-664



--- Track laying work to be executed in the future

- NOTES :-**
- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

DESIGNATION	INITIALS OF APPROVING OFFICIALS	
CPM DFC APPROVED		
WESTERN CORRIDOR		
Client: Dedicated Freight Corridor Corporation of India Ltd.		
TITLE: MALOSANA CROSSING STATION		
CONSULTING ENGINEER: RODIC CONSULTANTS Pvt. Ltd.		
H-78, 1st FLOOR SECTOR - 63, NOIDA Tel: +91-120-4615500 Fax: +91-120-4287707 Email: contact@rodiconsultant.com		
DATE: JUNE 2015	REV. No.:-	
PROJECT NO.:	CHECKED BY:-	SHEET NO:- 2 OF 2
DESIGN BY:-	APPROVED BY:-	

This drawing was originally prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

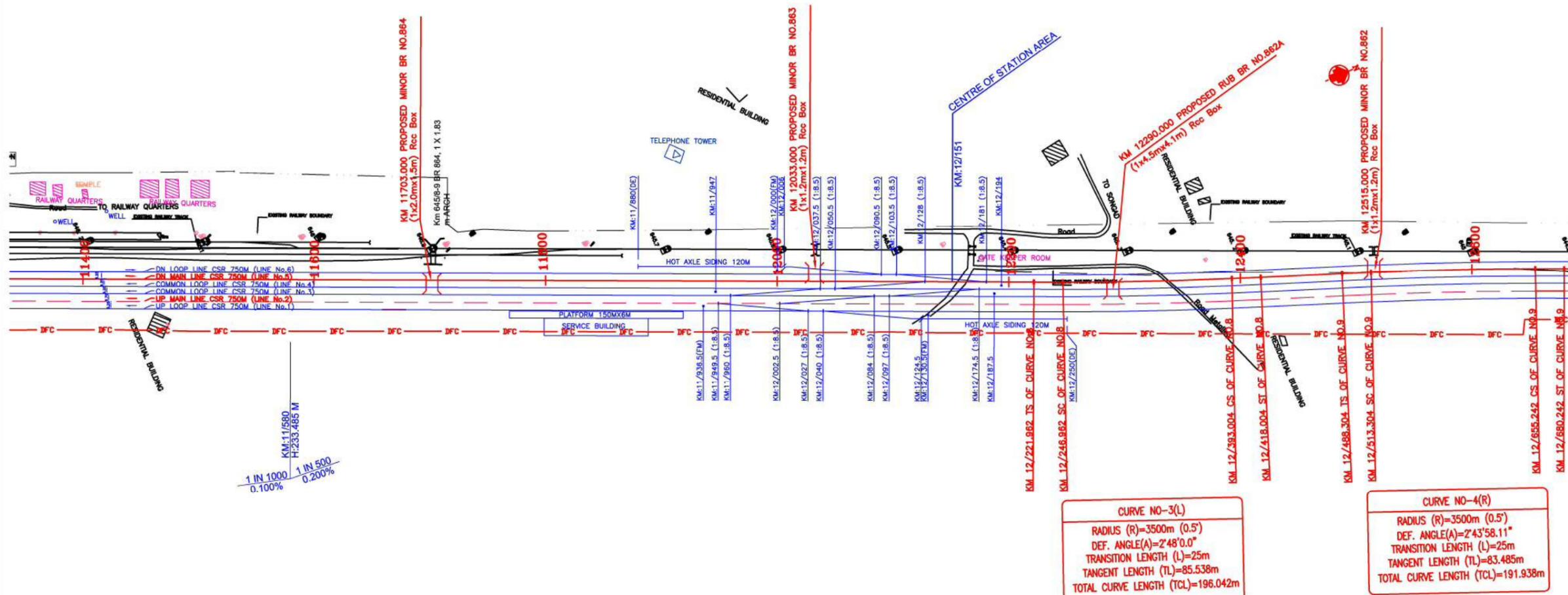


PALANPUR JUNCTION STATION

(CENTRE OF STATION AREA: KM 12/151) (SEC.9)

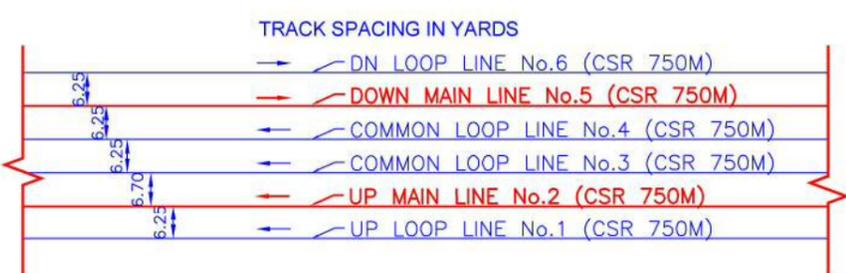
← MALOSANA
JNPT

SHRI AMIRGARH
DADRI →



1 IN 1000
0.100%

1 IN 500
0.200%



CURVE NO-3(L)
 RADIUS (R)=3500m (0.5°)
 DEF. ANGLE(A)=2°48'0.0"
 TRANSITION LENGTH (L)=25m
 TANGENT LENGTH (TL)=85.538m
 TOTAL CURVE LENGTH (TCL)=196.042m

CURVE NO-4(R)
 RADIUS (R)=3500m (0.5°)
 DEF. ANGLE(A)=2°43'58.11"
 TRANSITION LENGTH (L)=25m
 TANGENT LENGTH (TL)=83.485m
 TOTAL CURVE LENGTH (TCL)=191.938m

--- Track laying work to be executed in the future

- NOTES :-
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

DESIGNATION: CPM DFC AMER
 CPD: CPM DFC AMER
 CPM: CPM DFC AMER
 PROJECT: WESTERN CORRIDOR

CLIENT: Dedicated Freight Corridor Corporation of India Ltd.

TITLE: YARD PLAN
 PALANPUR JUNCTION STATION

CONSULTING ENGINEER: DOLPHIN CONSTRUCTION COMPANY
 "Panwar Bhawan" Road No.2 Nayapura BSF Mandore, JODHPUR (RAJ.) 342 026
 Mob.No. +91 9928366291, +91 9001891168

SCALE: 1:2000
 DATE: JUNE 2015
 SHEET NO: 2 OF 4

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

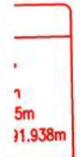
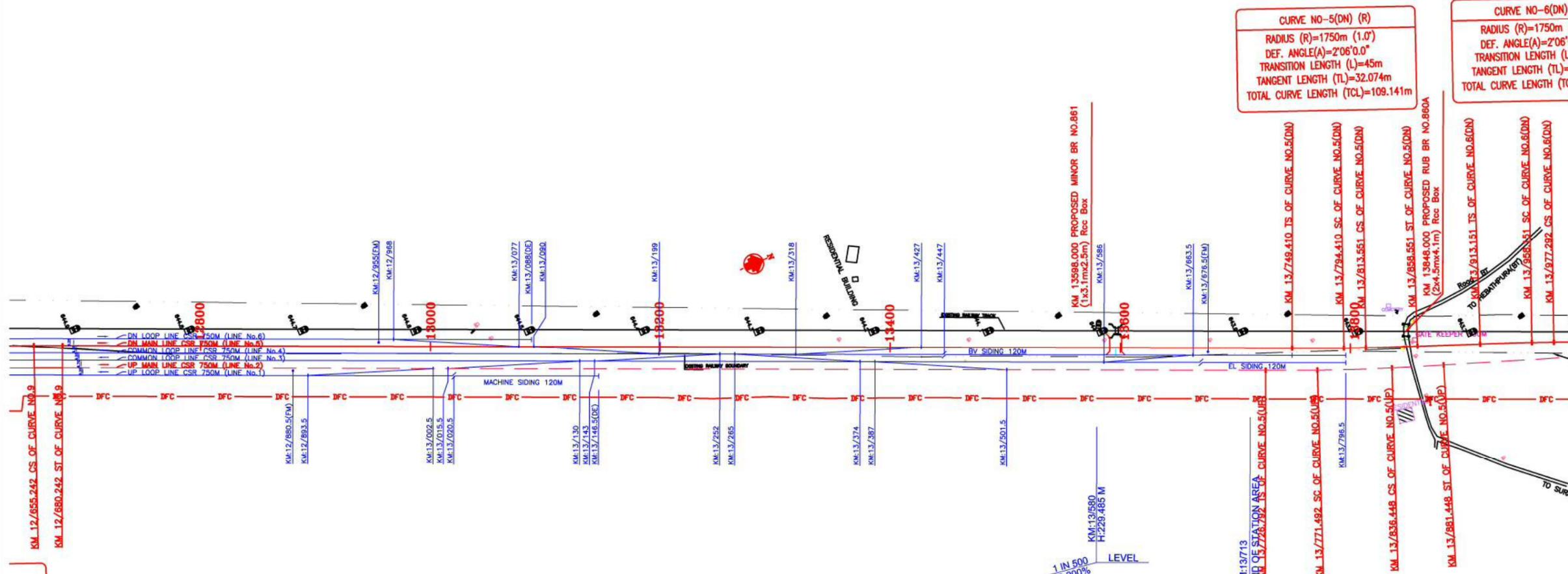


PALANPUR JUNCTION STATION

(CENTRE OF STATION AREA: KM 12/151) (SEC.9)

MALOSANA
JNPT

SHRI AMIRGARH
DADRI



--- Track laying work to be executed in the future

CURVE NO-5(DN) (R)
RADIUS (R)=1750m (1.0°)
DEF. ANGLE(A)=2°06'0.0"
TRANSITION LENGTH (L)=45m
TANGENT LENGTH (TL)=32.074m
TOTAL CURVE LENGTH (TCL)=109.141m

CURVE NO-6(DN)
RADIUS (R)=1750m (1.0°)
DEF. ANGLE(A)=2°06'0.0"
TRANSITION LENGTH (L)=45m
TANGENT LENGTH (TL)=32.074m
TOTAL CURVE LENGTH (TCL)=109.141m

CURVE NO-5(UP) (R)
RADIUS (R)=1750m (1.0°)
DEF. ANGLE(A)=3°36'0.0"
TRANSITION LENGTH (L)=45m
TANGENT LENGTH (TL)=54.996m
TOTAL CURVE LENGTH (TCL)=154.956m

- NOTES :-
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 - PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 - TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 - OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 - PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 - STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 - TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

DESIGNATION: CPM DFC AMER
 INITIALS OF APPROVING OFFICIALS: [Blank]
 CLIENT: Western Corridor
 Designated Freight Corridor Corporation of India Ltd.
 TITLE: PALANPUR JUNCTION STATION
 CONSULTING ENGINEER: DOLPHIN CONSTRUCTION COMPANY
 "Panwar Bhawan" Road No.2 Nayapura BSF Mandore, JODHPUR (RAJ.) 342 026
 Mob.No. +91 9928366291, +91 9001891168
 SCALE: 1:2000
 DATE: JUNE 2015
 REV. No.:-
 PROJECT NO. SHEET NO:- 3 OF 4
 DESIGN BY:- CHECKED BY:-
 DRAWN BY:- APPROVED BY:-

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.



CHADOTAR STATION

(CENTRE OF STATION AREA: KM 1/325) (SEC.9)

PALANPUR
DADRI →

CURVE NO. PCL-1(R)

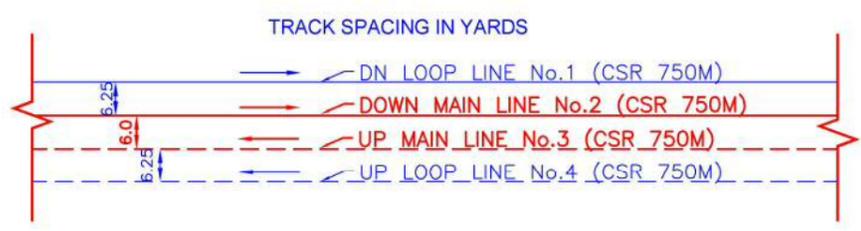
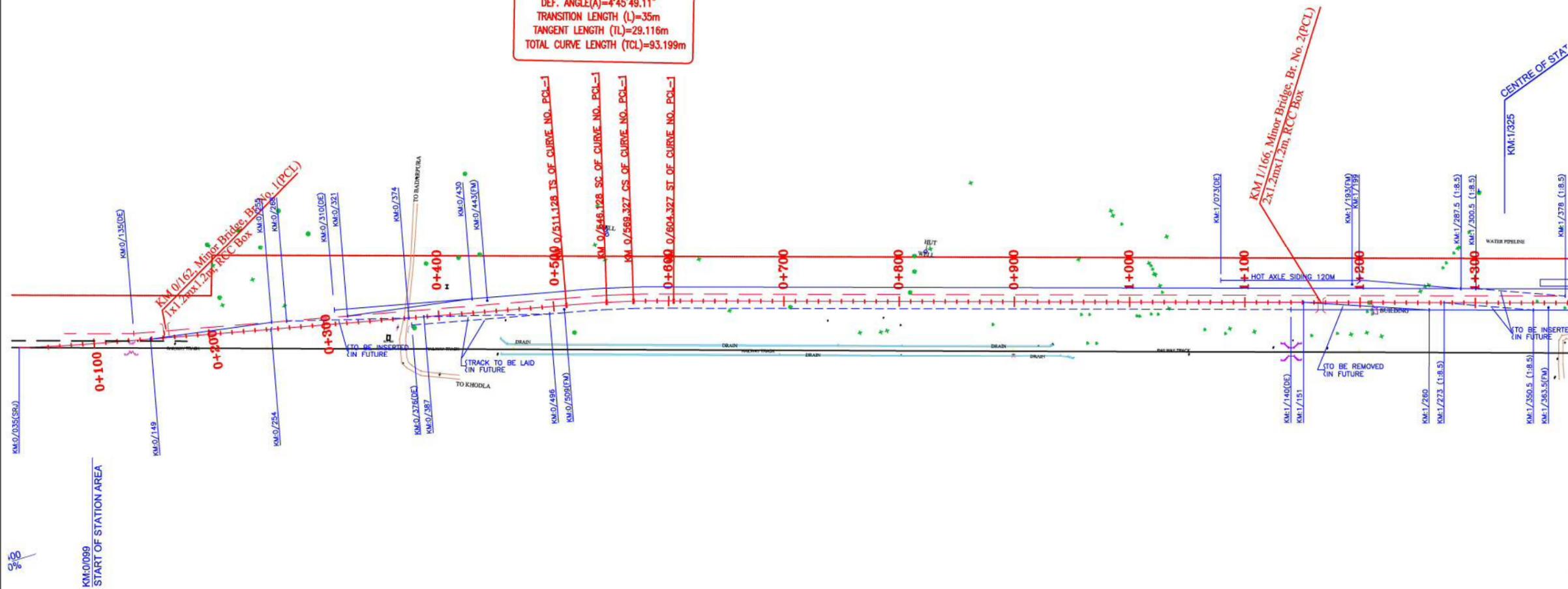
RADIUS (R)=700m (2.5°)

DEF. ANGLE(A)=4°45'49.11"

TRANSITION LENGTH (L)=35m

TANGENT LENGTH (TL)=29.116m

TOTAL CURVE LENGTH (TCL)=93.199m



- NOTES**
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 2. NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 3. PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 4. TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 5. OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 6. PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 7. PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 8. STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 9. TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND	
	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM DFC AMBARDHO	
DR. CPD DFC AMBARDHO	
CPM DFC AMBARDHO	
PROJECT	
CLIENT	WESTERN CORRIDOR
	Delhi Metro Rail Corporation of India Ltd.
TITLE	YARD PLAN
	CHADOTAR STATION
CONSULTING ENGINEER	RODIC CONSULTANTS Pvt. Ltd.
	H-78, 1st FLOOR
	SECTOR - 63, NOIDA
	Tel: +91-120-4615500
	Fax: +91-120-4287707
	Email: contact@rodicoconsultant.com
PROJ. NO.	DFCC/NCP/WCP/BS-1/28 & DFCC/NCP/WCP/BS-2/01
SCALE	1:2000
DATE	JUNE 2015
REV. No.	
DESIGN BY	CHECKED BY
DRAWN BY	APPROVED BY

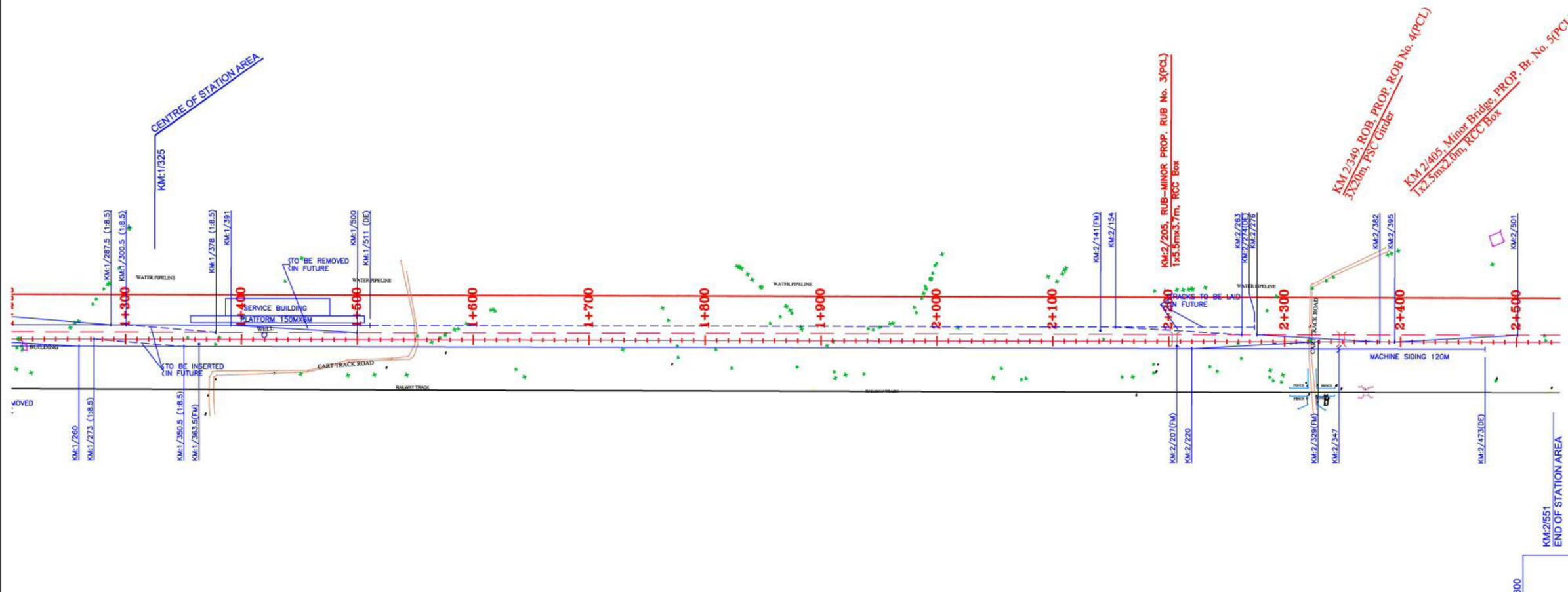
This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.



CHADOTAR STATION

(CENTRE OF STATION AREA: KM 1/325) (SEC.9)

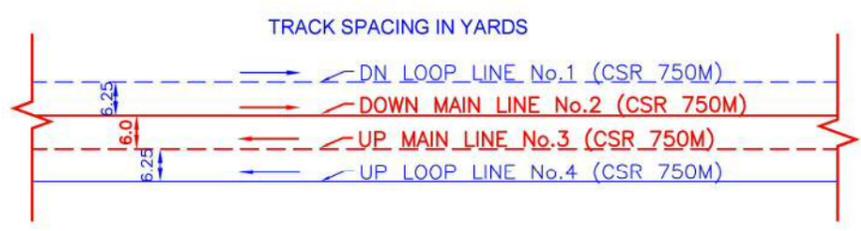
**PALANPUR
DADRI** →



- NOTES**
1. ALL DIMENSIONS ARE IN METRE UNLESS OTHERWISE STATED.
 2. NORTH DEPICTED IN DRAWINGS HAS BEEN OBSERVED USING PRISMATIC COMPASS.
 3. PROFILE HAS BEEN DEPICTED BASED ON SURVEY OF INDIA'S GTS BENCH MARKS AVAILABLE AT VARIOUS LOCATIONS.
 4. TRACK CENTER BETWEEN TWO TRACKS OF DFC HAS BEEN KEPT AS 6M.
 5. OFC, ELECTRIC CABLES & OTHER UTILITIES FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 6. PROPOSED DFC TRACK SHOWN IN RED COLOUR (CONTINUOUS) HAS BEEN DESIGNED.
 7. PROPOSED DFC TRACK SHOWN IN RED COLOUR (DASHED) HAS BEEN MARKED AT AN OFFSET OF 6M FROM DESIGNED TRACK.
 8. STAFF QUARTER TO BE PROVIDED AT SUITABLE LOCATION WITH IN ROW.
 9. TURNOUTS ALL BUT THOSE INDICATED IN THE DRAWING ARE 1:12.

LEGEND

	BUILDINGS, HOUSE
	EXISTING TRACK
	FENCING
	EXISTING K.M. STONE
	EXISTING BRIDGE
	TELEPHONE POST
	DRAIN
	BOUNDARY WALL
	PROP. BRIDGE
	WELL
	ELECTRICAL POST
	LAMP POST
	INDICATION BOARD
	OFC
	HECTA POST
	HAND PUMP
	PROPOSED FOULING MARK
	PROPOSED DFC LINE -1
	PROPOSED DFC LINE -2
	PROPOSED ROW
	ARRANGEMENT FOR YARD
	TO BE LAID IN FUTURE

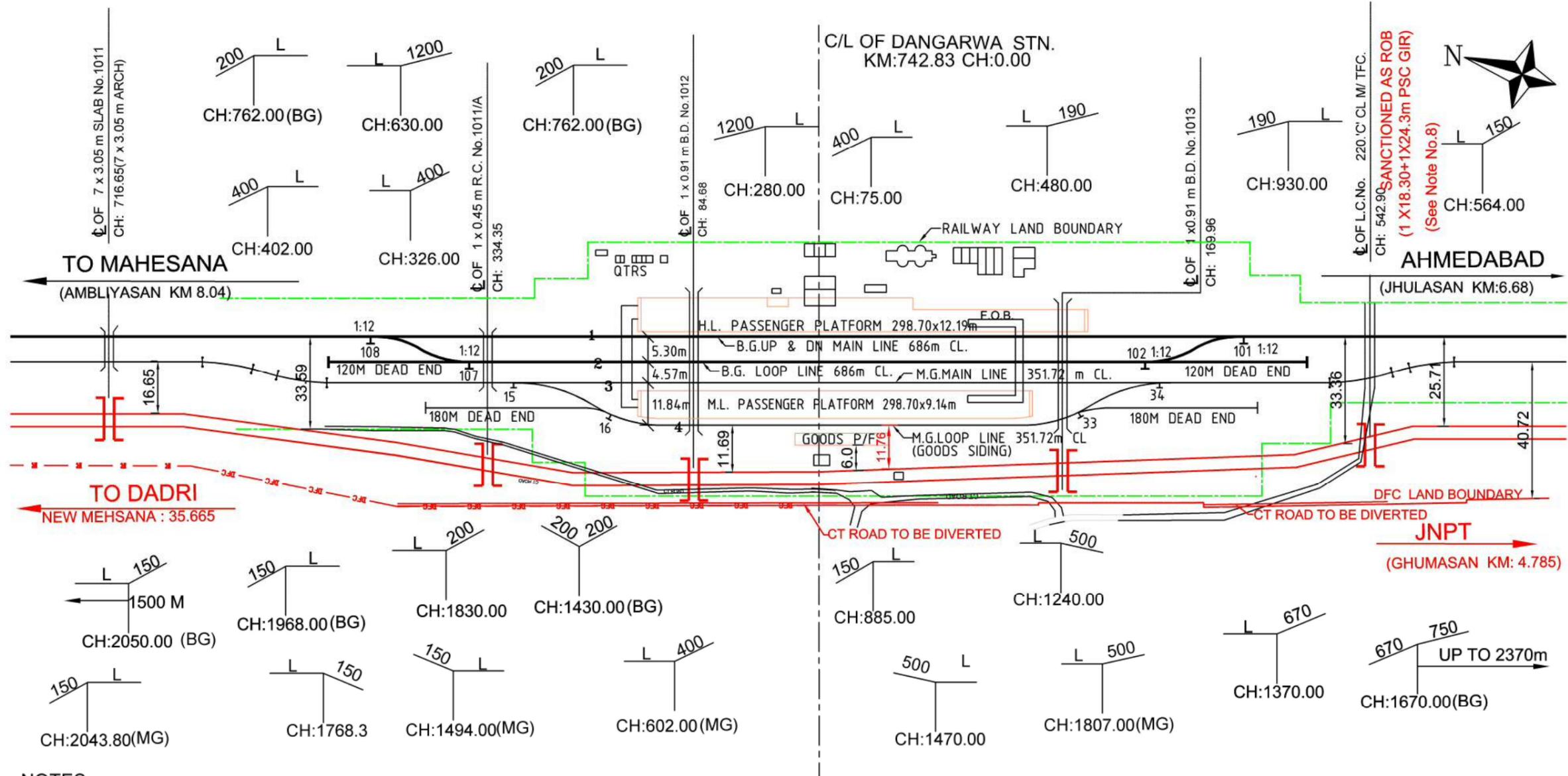


--- Track laying work to be executed in the future

This drawing was originally prepared by Sub Consultant (Unknown) and reviewed/ modified by NK Consortium and combined with drawing prepared by Rodic Consultants Pvt. Ltd. and reviewed/ modified by NK Consortium.

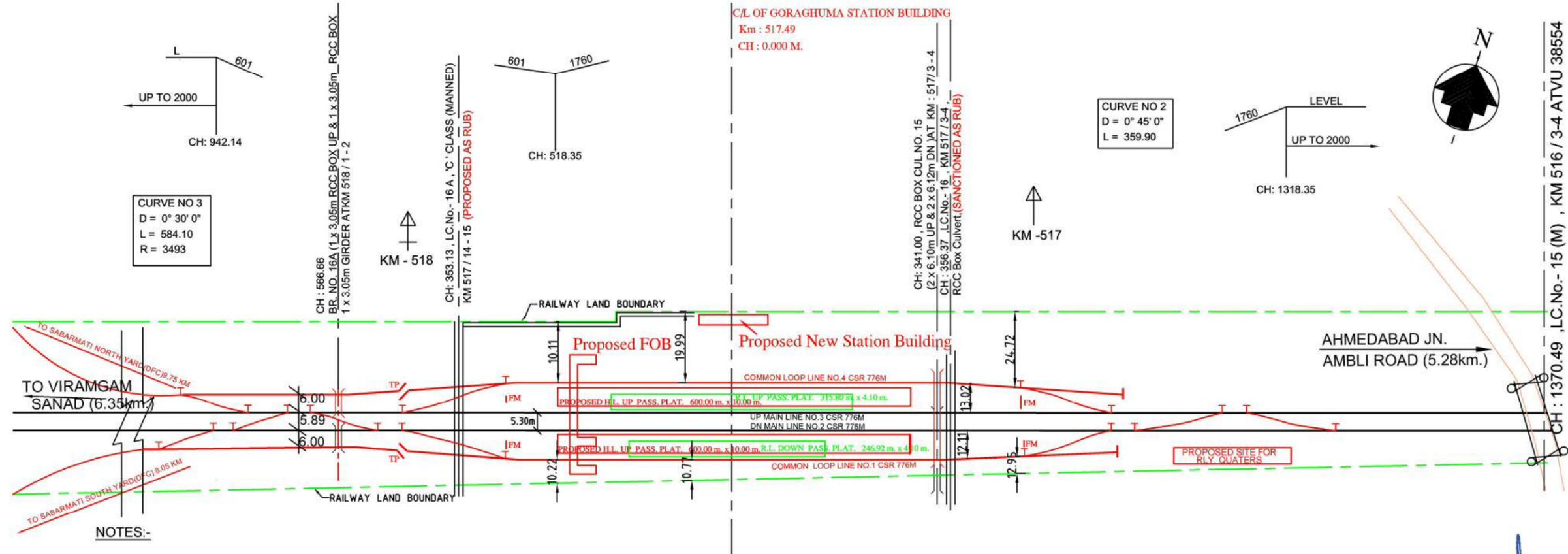


DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM DFC AMBARDHO	
DR. CPM DFC AMBARDHO	
CPM DFC AMBARDHO	
PROJECT	
CLIENT	WESTERN CORRIDOR
	Delhi Metro Freight Corridor Corporation of India Ltd.
TITLE	YARD PLAN
	CHADOTAR STATION
CONSULTING ENGINEER	
	RODIC CONSULTANTS Pvt. Ltd.
	H-78, 1st FLOOR
	SECTOR - 63, NOIDA
	Tel: +91-120-4615500
	Fax: +91-120-4287707
	Email: contact@rodiconsultant.com
DRG.No-	DFC/NDP/NDP/RS-1/26 & DFC/NDP/NDP/RS-2/01
SCALE :	DATE: JUNE 2015
PROJECT NO.:	REV. No.:-
DESIGN BY:-	CHECKED BY:-
DRAWN BY:-	APPROVED BY:-
	SHEET NO:- 1 OF 2



- NOTES:-
- 1.... EXISTING WORK SHOWN IN BLACK.
 - 2.... PROPOSED DFC WORK SHOWN IN RED.
 - 3.... EXISTING RLY. LAND BOUNDARY SHOWN IN CHAIN DOTTED GREEN.
 - 4.... DFC BOUNDARY SHOWN IN DOTTED RED.
 - 5.... CHAINAGES SHOWN ON EITHER SIDES ARE TAKEN WITH REFERENCE TO & OF STATION BUILDING AS 0.00.
 - 6.... THROUGH KMs AND CHAINAGES ARE RECOGNIZED FROM VAMAJ DETOUR FOR DFC
 - 7.... BASED ON PLAN NO. : CE (C)ADI/544 /F-ADI/FL/R- II .
 - 8.... * - As per GM ROB DFCCIL Letter No. HQ/GM/ROB/3/WDFC/2013 , DATE 1-11 -2013 , in Phase - I Utility Shifting work Shall be commissioned with RUB in Lieu of LC NO 220 however LC No. 209 Shall be retained during phase I, during final Phase LC NO. 220 shall be eliminated by ROB.

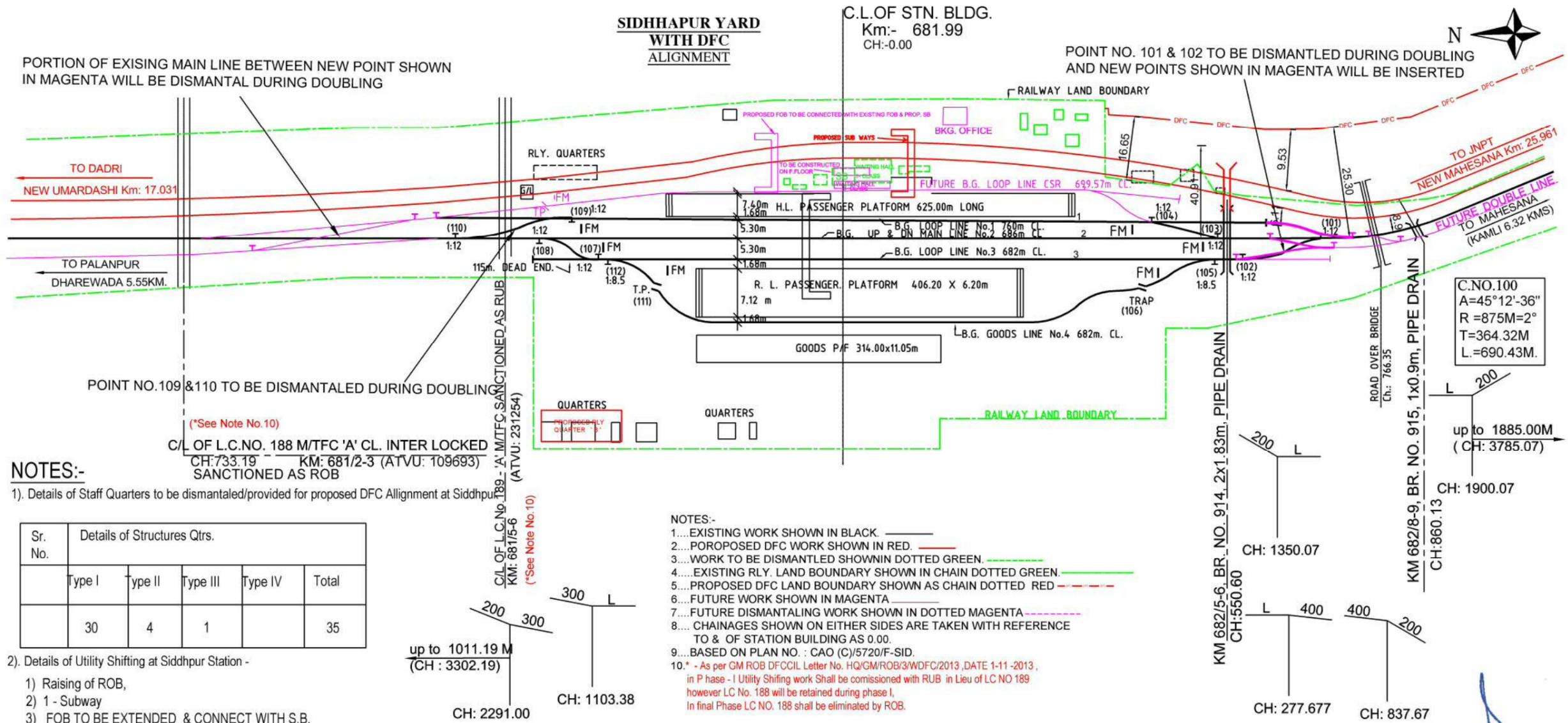




- 1....EXISTING WORK SHOWN IN BLACK.
- 2....PROPOSED DFC WORK SHOWN IN RED.
- 3....WORK TO BE DISMANTLED SHOWN IN DOTTED GREEN.
- 4....EXISTING RLY. LAND BOUNDARY SHOWN IN CHAIN DOTTED GREEN.
- 5....CHAINAGES SHOWN ON EITHER SIDES ARE TAKEN WITH REFERENCE TO & OF STATION BUILDING AS 0.00.
- 6....BASED ON PLAN NO. : D.R.M.O 11911/67-5



<p>Title :</p> <p>Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client :</p>  <p>Dedicated Freight Corridor Corporation of India (A GOVERNMENT OF INDIA UNDERTAKING)</p> <p>5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title :</p> <p>CONCEPT PLAN OF GORAGUMA</p>	<p>Consultant :</p>  <p>NK Consortium</p> <p>4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>
--	--	--	--



PORTION OF EXISING MAIN LINE BETWEEN NEW POINT SHOWN IN MAGENTA WILL BE DISMANTAL DURING DOUBLING

POINT NO.109 & 110 TO BE DISMANTALED DURING DOUBLING

C/L OF L.C.NO. 188 M/TFC 'A' CL. INTER LOCKED
CH:733.19 KM: 681/2-3 (ATVU: 109693)
SANCTIONED AS ROB

NOTES:-

1). Details of Staff Quarters to be dismantaled/provided for proposed DFC Alignment at Siddhpur

Sr. No.	Details of Structures Qtrs.				
	Type I	Type II	Type III	Type IV	Total
	30	4	1		35

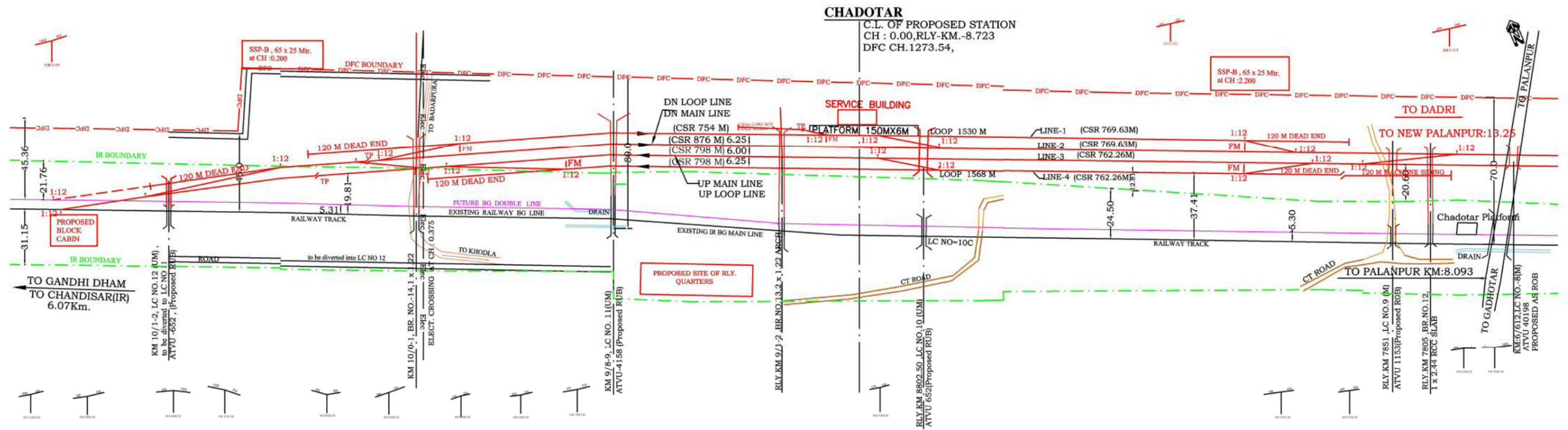
2). Details of Utility Shifting at Siddhpur Station -

- 1) Raising of ROB,
- 2) 1 - Subway
- 3) FOB TO BE EXTENDED & CONNECT WITH S.B.

NOTES:-

- 1.....EXISTING WORK SHOWN IN BLACK.
- 2.....PROPOSED DFC WORK SHOWN IN RED.
- 3.....WORK TO BE DISMANTLED SHOWN IN DOTTED GREEN.
- 4.....EXISTING RLY. LAND BOUNDARY SHOWN IN CHAIN DOTTED GREEN.
- 5.....PROPOSED DFC LAND BOUNDARY SHOWN AS CHAIN DOTTED RED.
- 6.....FUTURE WORK SHOWN IN MAGENTA.
- 7.....FUTURE DISMANTLING WORK SHOWN IN DOTTED MAGENTA.
- 8.....CHAINAGES SHOWN ON EITHER SIDES ARE TAKEN WITH REFERENCE TO & OF STATION BUILDING AS 0.00.
- 9.....BASED ON PLAN NO. : CAO (C)/5720/F-SID.
- 10.* - As per GM ROB DFCCIL Letter No. HQ/GM/ROB/3/WDFC/2013, DATE 1-11-2013, in P hase - I Utility Shifting work Shall be comissioned with RUB in Lieu of LC NO 188 however LC No. 188 will be retained during phase I, In final Phase LC NO. 188 shall be eliminated by ROB.



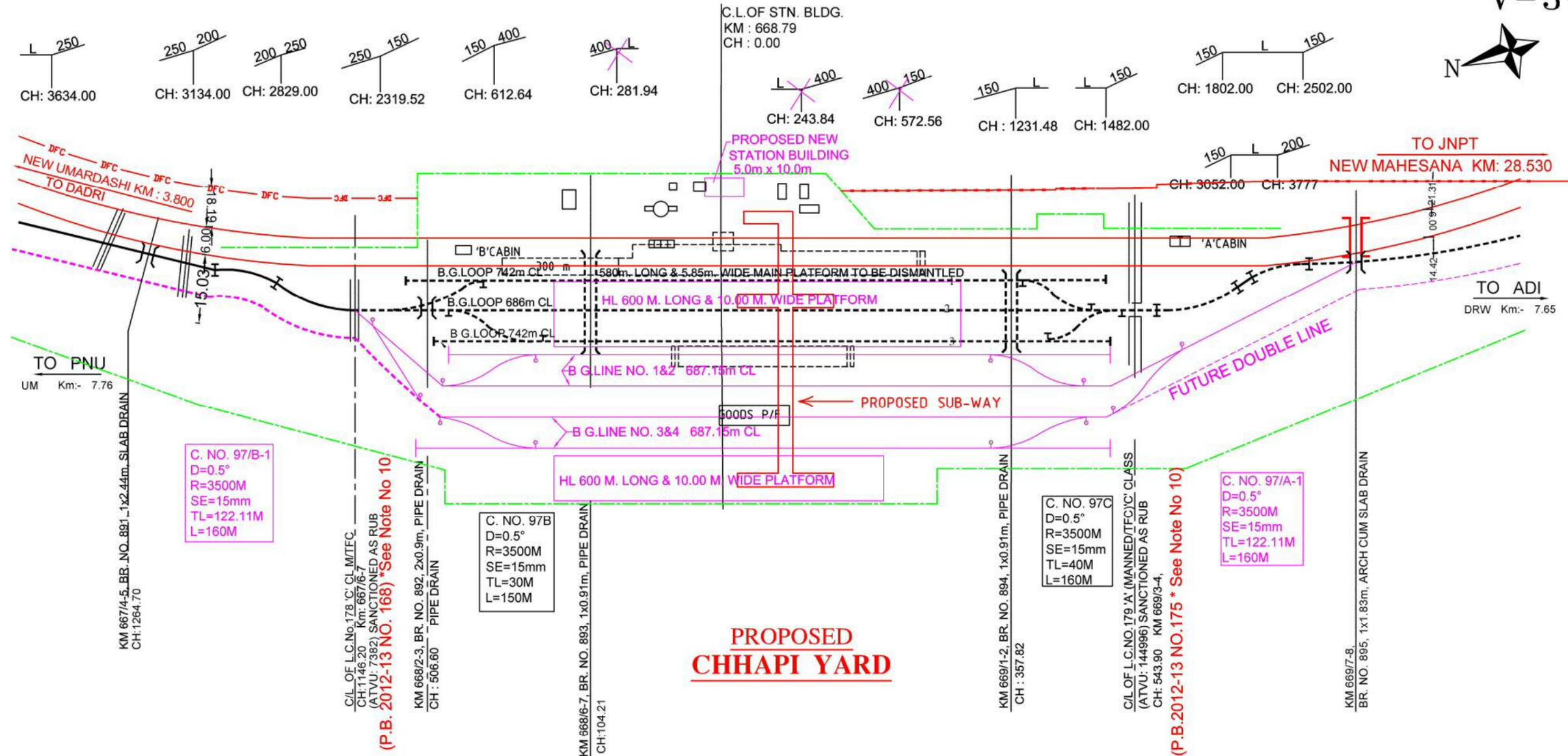


Title :
 Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
 (A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
 CONCEPT PLAN OF CHADOTAR

Consultant :
 **NK Consortium**
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



PROPOSED CHHAPI YARD

NOTES:-

1. EXISTING WORK SHOWN IN BLACK. _____
2. PROPOSED WORK SHOWN IN RED. _____
3. RAILWAY LAND BOUNDARY SHOWN IN CHAIN DOTTED GREEN. _____
4. RAILWAY STRUCTURES TO BE DISMANTLED SHOWN IN DOTTED BLACK. _____
5. PROPOSED DFC LAND BOUNDARY SHOWN AS **DFC** _____
6. PROP. IR WORK SHOWN IN MAGENTA AND FUTURE D/L SHOWN IN DOTTED MAGENTA. _____
7. WORK TO BE DISMANTLED SHOWN IN DOTTED GREEN. _____
8. BASED ON PLAN NO. : CAO (C)/5743/F-CHP/R.
9. NEW SM OFFICE WILL BE CONSTRUCTED AS PER DESIGN PROVIDED BY ADI DIVISION
- 10.* - As per GM ROB DFCCIL Letter No. HQ/GM/ROB/3/WDFC/2013 ,DATE 1-11 -2013 , in P hase - I Utility Shifing work Shall be comissioned with RUB in Lieu of LC NO 178'C' however LC No. 179'A' Shall be retained in phase I, In phase II / final Phase LC NO. 179 'A' shall be eliminated by ROB.