NOR.HO.-OFFICERS			DIVISIONAL OFFICERS								DFCOL OFFICERS		RITES LTD.			
(SH. M.K. CHAUHAN) CBE/DEE	(SH. SAMBHAV) ADEN/BSB/NCR	(SH. SUNIL) ADEN/BSB/NCR	(SH. AMITABH) DRM	(SH. MANU) SR.DOM	(SH. ATUL GUPTA) SR.DEN/DD	(SH. NEERAJ YADAV) SR.DSTE/SG	(SH. AMITABH SHARMA) SR.DEE/TRD	(SH. P. K SHAKYA) SR.DEN/N	(SH. ALOK R BHARGAVA) CAM/DRC/TDL	(SH. SUNDESH SHUKLA) OA/CIVIL/TDL	(NEELAM CHAUHAN) (AFR AWARD) DRAWN BY	(NO. NUMAN) MANAGER/D	(SH. NUMAN) MANAGER/D	(D.S. NEGI) ADM/D	(A.MUKHERJEE) GGM/RCED

REVISIONS		
REV	DATED	DESCRIPTION
R1	NOV.-2019	REVISED AS PER RAILWAY LETTER NO.260-W/SG1/Bridge-GAD-ROB/CNB-TDL/DFCOL-TDL.DT.30.10.2019
R2	FEB.-2019	REVISED AS PER RAILWAY LETTER NO.260-W/SG1/Bridge-GAD-ROB/DT.18.02.2019

N:\RLWB\PLAN N+-NCL\ENGG-GAD\R08\02-2019.dwg

ALLAHABAD DIVISION (N.C.RLY)

PROPOSED TWO LANE RGB COMPOSITE SPAN 1X30.00+1X24.00 M FOR OBLIGATORY SPAN, 24.0M PSC APPROACH SPAN IN LIEU OF L-XING NO.LC12C/3E AT RLY KM 1110/21-23 BETWEEN PURWA JAISINGH VILLAGE ROAD TO ACHALDA/DIBIYAPUR ROAD,STATION IN PATA/ PHAPHUND TO ACHALDA ON SECTION TUNDLA TO KANPUR OF NORTH CENTRAL RAILWAY ALLAHABAD (SKEW ANGLE AT RL-0° & DFCC-0°)

(TVU: 24185, DT:10/2015)

GENERAL ARRANGEMENT DRAWING (RAILWAY PORTION)

SH. NO.	DWG. NO.	DESCRIPTION
1 OF 3	LC12C/RAILWAY PORTION	

RITES

Bridges for Infinity

DATE	REV.
FEBRUARY, 2019	R2

KEY PLAN
SCALE = 1:2000

BH No.	DEPTH OF EXCAVATION	SIZE OF FOUNDATION	
		LENGTH (L)	WIDTH (B)
12/3	10.00	10.00	3.00
12/4	10.00	10.00	3.00

SAFE BEARING CAPACITY (T/M²)

BH No.	DEPTH OF EXCAVATION	SIZE OF FOUNDATION		
		LENGTH (L)	WIDTH (B)	DEPTH (D)
12/3	15.00	10.00	3.00	14.00
12/4	15.00	10.00	3.00	14.00

RECOMMENDED SAFE LOAD CARRYING CAPACITY

BH No.	DIMENSION OF PILE		RECOMMENDED SAFE LOAD (TONNES)
	LENGTH (L)	DIAMETER (D)	
12/3	15.00	1.00	130.00
12/4	25.00	1.00	205.00
12/3	30.00	1.00	260.00
12/4	25.00	1.00	196.00
12/3	15.00	1.00	126.00
12/4	30.00	1.00	312.00

BH No.	COORDINATE OF BOREHOLE	
	X	Y
BH-03	3466864.910	2953785.550
BH-04	3466925.010	2953436.270

LOCATION AT P8
SCALE 1:100

LOCATION AT P9
SCALE 1:100

LOCATION AT P10
SCALE 1:100

SECTION OF COMPOSITE GIRDER
(SCALE 1:25)

(30.00 M SPAN)
2135+22+23+125 = 2305
SPLICE PLATE = 22
BOLT HOLE= 23
CENTRE TO LOWER MOST GIRDER = 125

(24.00 M SPAN)
1994+20+16+125 = 2155
SPLICE PLATE = 20
BOLT HOLE= 16
CENTRE TO LOWER MOST GIRDER = 125

LONGITUDINAL PROFILE

CHAINAGE
VERTICAL
HORIZONTAL
PROPOSED LEVEL
EXISTING LEVEL

TO PURWA JAISINGH
TO ACHALDA DIBIYAPUR
SLOPE 1:30
SLOPE 1:30

A1 P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 A2

BOTTOM PLAN
(SCALE 1:200)

TOP PLAN
(SCALE 1:200)

P7 P8 P9 P10 P11

LONGITUDINAL SECTIONAL ELEVATION

PROPOSED ROAD LEVEL= 151.380
RAIL LEVEL= 142.244
DFC RAIL LEVEL= 142.599
3000 OVERALL LENGTH OF GIRDER
2400 C/C OF PIER
2500 C/C OF BEARING
3120 C/C OF PIER

SECTION AT B-B
(SCALE 1:100)

DETAIL-A
SCALE = 1:500

RAILWAY BOUNDARY WALL
9.0 m Down from existing LC 12
50.09
21.89
50.06
21.81
1110/21
1110/22
1110/23
1110/24
EXISTING UP LINE TRACK
PROPOSED DFCOL TRACK-1
PROPOSED DFCOL TRACK-2
HDSR/ MARKER
FENCING
DRAIN
EXISTING DN LINE TRACK
RAILWAY BOUNDARY WALL
C+0.0
LEGEND :-
EXISTING RAILWAY LINE
PROPOSED RAILWAY LINE
FUTURE RAILWAY LINE
EXISTING RAILWAY BOUNDARY
BOUNDARY WALL
FENCING
DRAIN
PROPOSED STRUCTURE
EXISTING STRUCTURE

BOREHOLE

DEPTH (M) BELOW G.L.	BH-12/3	BH-12/4
0.00	YELLOWISH SLIGHTLY CLAY	YELLOWISH SLIGHTLY CLAY
3.00	USCS NOT RECEIVED	USCS NOT RECEIVED
6.00	YELLOWISH SLIGHTLY SILTY CLAY	YELLOWISH SLIGHTLY SILTY CLAY
9.00	USCS NOT RECEIVED	USCS NOT RECEIVED
12.00	YELLOWISH MEDIUM STIFF SILTY CLAY (C=1.00A/B++)	YELLOWISH SLIGHTLY SILTY CLAY
15.00	USCS NOT RECEIVED	USCS NOT RECEIVED
18.00	YELLOWISH STIFF SILTY CLAY (C=0.98A/B++)	YELLOWISH SLIGHTLY SILTY CLAY
21.00	USCS NOT RECEIVED	USCS NOT RECEIVED
24.00	YELLOWISH STIFF SILTY CLAY (C=1.00A/B++)	YELLOWISH SLIGHTLY SILTY CLAY
27.00	USCS NOT RECEIVED	USCS NOT RECEIVED
30.00	YELLOWISH STIFF SILTY CLAY (C=0.98A/B++)	YELLOWISH SLIGHTLY SILTY CLAY
33.00	USCS NOT RECEIVED	USCS NOT RECEIVED
36.00	YELLOWISH STIFF SILTY CLAY (C=0.98A/B++)	YELLOWISH SLIGHTLY SILTY CLAY
39.00	USCS NOT RECEIVED	USCS NOT RECEIVED
42.00	OVERLAID BY 'V' VALLE	OVERLAID BY 'V' VALLE

NOTES & SPECIFICATIONS :-

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS OTHERWISE MENTION.
2. NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS AND CONDITIONS SHOWN IN THIS DRAWINGS ARE TENTATIVE CONSTRUCTION MAY HAVE ALTERATION AT THE TIME OF ITS CONSTRUCTION.
4. THE STRUCTURAL DETAILS AND DIMENSIONS SHOWN IN THIS DRAWINGS ARE TENTATIVE AND ARE SUBJECT TO MAX. DESIGN AND DRAWING TO BE APPROVED BY THE RAILWAY.
5. CRS SANCTION MUST BE OBTAINED BEFORE LAUNCHING OF STEEL GIRDER IN RAILWAY SPAN.
6. ANY CONSTRUCTION OF CLEAR OF MINE CLEARANCE AT RAIL LEVEL OF PIERS FROM THE NEAREST CENTRE OF TRACK SHALL BE PROVIDED AS PER RDSO LETTER NO.CB1/SBG DATED 15.04.2012 STANDARD DRAWING.
7. PILES SHALL BE LOAD TESTED BEFORE DARING TO MAKE PILE AS PER RELEVANT RD/WORK CODE.
8. BRIDGE WORK CONSTRUCTED BE CLEAR OF MINE CLEARANCE AT RAIL LEVEL OF PIERS FROM THE NEAREST CENTRE OF TRACK SHALL BE PROVIDED AS PER RDSO LETTER NO.CB1/SBG DATED 15.04.2012 STANDARD DRAWING.
9. WIDTH OF ROADWAY HAS BEEN PROVIDED AS PER REQUIREMENT OF SPONSORING AGENCY.
10. SUITABLE ANCHOR POINTS SHALL BE PROVIDED FOR FITTING GADGETS FOR MEASUREMENT/REPAIR OF BEARINGS.
11. PROVISION OF DRAIN SPOUTS SHALL BE PROVIDED AS PER GUIDELINES OF RDSO.
12. DRAIN BARRIERS SHALL BE PROVIDED AS PER LATEST DESIGN OF RDSO.
13. PCC CLASS 17-3 RC CODE.
14. DRAWING AND DESIGN OF APPROACH SLAB SHALL BE DECIDED BY SPONSORING AUTHORITY AS PER LOCAL WORKCHEX GUIDANCE.
15. SINGLE SLEEPER SHALL BE PROVIDED FOR 1-LANE OF RC, TOP OF 2 LANE OF RC CLASS A.
16. SINGLE SLEEPER SHALL BE PROVIDED AS DESIGNED FOR 1-LANE OF RCC TOP OF 2 LANE OF RC CLASS A.
17. SUITABLE ARRANGEMENTS IN RAILWAY PORTION SHALL BE PROVIDED AS PER RDSO/ MODIFIED STANDARD DRAWING OF WORK.
18. CONTROLLED CEMENT CONCRETE MIX TO BE PROVIDED AND SHOULD NOT BE LEAKED THEN PROTECTION IN RAILWAYS PORTION SHALL BE PROVIDED AS PER RDSO/ MODIFIED STANDARD DRAWING OF WORK.
19. CONCRETE MIX OF M-30 SHALL BE USED IN ALL RCC WORKS.
20. CONCRETED LEVEL CROSSING SHOULD BE CLOSED SIMULTANEOUS COMMISSIONING OF ROB.
21. 4 NO STANDARD SHALL BE PROVIDED BEYOND RLYS BOUNDARY FOR USE OF PEDESTRIANS.
22. TO BE DRAWN WITH TRAFFIC DIVERSION FOR BLOCK & CAUTIONS BEFORE SANTIN THE WORK.
23. ADEQUATE DISCHARGE SHALL BE PROVIDED BY STATE AUTHORITY TO BE SUBMITTED.
24. LC SHOULD BE CLOSED AFTER COMMISSIONING AND COMMISSIONING OF ROB.
25. INSPECTION LOADING FROM ROAD TO PWIS FOR AND INSPECTION PLATFORMS IN THE PIERS SHALL BE INCORPORATED IN THE STRUCTURAL DRGS.
26. ARRANGING OF WORKS SHE WILL BE PROVIDED AS PER PCE'S LETTER NO 124/W/1/NCR/TP/-X ON 04.03.2013 & DRCP LETTER NO 260/W-1/ROB/PT-8 DATD. 17.05.2013.
27. WEARING COAT OF CONCRETING SHALL BE PROVIDED.
28. DETAILS OF PIPE & SIZE OF BED BLOCK & BEARING WALL BE GIVEN IN STRUCTURAL DRAWINGS.
29. REQUIRED LAND FOR CONSTRUCTION ROAD WALL BE ORDERED LATER.
30. PROTECTION SCREEN SHALL BE PROVIDED AS PER ACR/W/1/GEN/TSG/DT. CM17.
31. NECESSARY MODIFICATION IN CHE TO BE DONE BEFORE COMMISSIONING OF ROB. TBD ESTIMATE IS REQUIRED AND AGENCY DECIDED.
32. PROVISION FOR THE NSDE OF CRASH BARRIER /RAILING.
33. PROTECTION OF SUPER STRUCTURE OF RLY FROM ACCIDENTAL HITTING OF SUPER STRUCTURE & POWER BLOCK OF 40 MEGA WATT FOR ORDER LAUNCHING.
34. NOTE DETAILS OF SUPER STRUCTURE OF RAILWAY SPAN OF 24.00 M UNDER REPORT RDSO'S SBG NO.RDSO/B-11755/R, DRG NO.RDSO/B-11757/A AND 30.00 M UNDER REPORT RDSO'S SBG NO.RDSO/B-11756/R.
35. THE RAILWAY PROTECTION OF WORKING MUST BE DONE AS PER PROVISIONS OF RAILWAY PROTECTION RULES.
36. THE ABANDONMENT FOR PROTECTION OF WORKING MUST BE DONE AS PER PROVISIONS OF RAILWAY/DUE NOT REQUIRED FOR CLOSURE OF LC.
37. FOOTPATH HAS BEEN PROVIDED AS SUPERSTRUCTURE AND SHOULDER WALL GRADE WIDTH.
38. THERE IS NO ENCROACHMENT TO RDSO.
39. FRACTURE OF PROPOSED WORK HAS BEEN CHECKED AND WORK IS FEASIBLE FOR ERECTION.
40. EXISTING DETAIL SHOWN IN THE PLAN HAVE BEEN CHECKED AT SITE AND FOUND CORRECT.

METHODOLOGY OF WORKING

1. WORKS OFFENDING/METHODOLOGY CONSTRUCTION ACTIVITY, SAFETY PRECAUTIONS AND MEASURES TO BE OBSERVED DURING CONSTRUCTION OF ROB SHOULD BE AS STIPULATED BY RAILWAY BOARD LETTER NO. 97/CE-I/BRC/158/8/PROJECT PL II DATED 16-07-98.
2. FABRICATED STEEL GIRDER SHALL BE LAUNCHED FIRST AND THEN RCC DECK SLAB WILL BE CASTED IN SITU AFTER PROVIDING TEMP. ARRANGEMENT.
3. DETAILED LAUNCHING SCHEME AND SUBMITTED TO NCR FOR APPROVAL.
4. CASTING/FABRICATING OF GIRDERS AND SLAB WILL BE CARRIED OUT UNDER THE PROVISION OF RAILWAY SAFETY RULES.
5. THE WORK UNDER TRAFFIC BLOCK SHALL BE CARRIED OUT UNDER THE PROVISION OF BANKER RULES AND PROTECTION OF DRGS. FLAGMEN.

(SEE P/C LETTER DL-W/SG/Policy-GAD-ROB/B/J DATED 23.6.2017.

CHD. NO.	RDSO/B/MISC/DFC/ROB/GAD
SH. NO.	1 OF 3
DATE	FEBRUARY, 2019
REV.	R2