

LEGEND	
F.L	FORMATION LEVEL
R.L	RAIL LEVEL

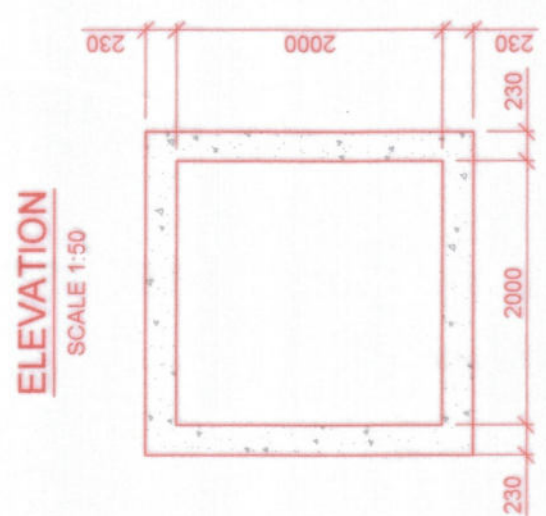
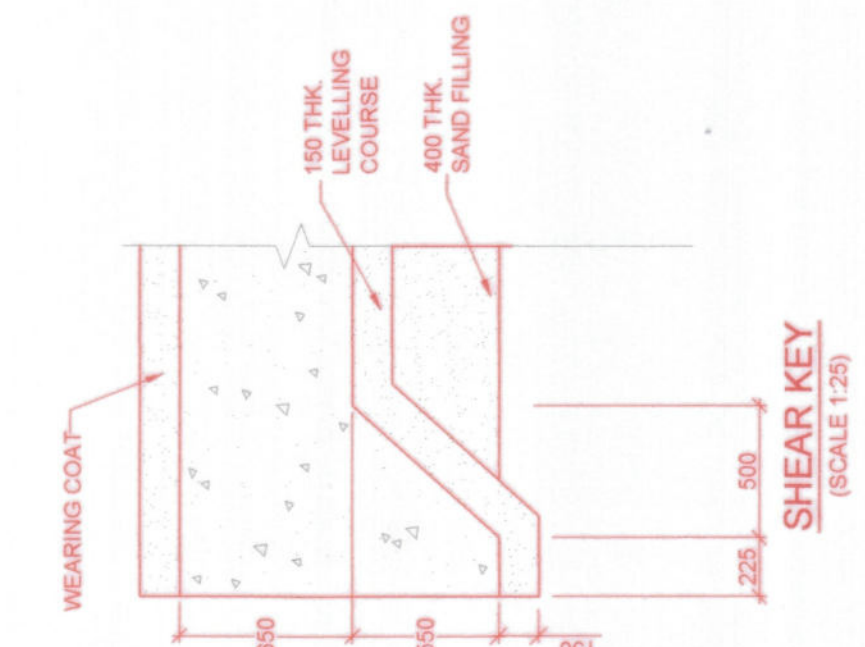
NOTES:

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ALL REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS (GRADE Fe-415) CONFORMING TO IS-1786.
4. MINIMUM LAP LENGTH REQUIREMENT FOR M-35 SHALL BE **45d** AS PER IS 456:2000.
5. THE BRIDGE IS LOCATED IN SEISMIC ZONE IV.
6. ENSURE PROPER COMPACTION OF SOIL BEHIND RETAINING WALLS.
7. BEHIND RCC BOX WELL HAND PACKED Boulders/Cobbles TO A THICKNESS NOT LESS THAN 600MM WITH SMALLER SIZE TOWARD, SHALL BE PROVIDED AS PER DRAWING & AS PER APPROVAL OF THE CONSULTANT.
8. MAXIMUM DESIGN PRESSURE ON FOUNDATION CONCRETE SHALL BE **2.50** N/MS².
9. FOR REINFORCEMENT DETAIL OF RCC BOX SEE DRAWING NUMBER RS/D/0-1012CR AND RS/D/0-1012R/1/R.
10. RCC BOX WITH KEY CONSTRUCTION SHALL BE AS PER DRAWING NUMBERS RS/D/0-1012R AND RS/D/0-1012G/1/R.
11. EPOXY GROUTING WITH G/1 SHEET ON BOTTOM OF JOINTS TO BE PROVIDED TO PREVENT WATER INGRESS.
12. SUITABLE GRANULAR MATERIALS TO BE PROVIDED BEHIND RCC BOX TO IMPROVE BEARING CAPACITY OF SOIL, IF REQUIRED.
13. FOR RCC BOX DESIGN MIXED M35 WILL BE USED EXCEPT UNLESS OTHERWISE SPECIFIED.
14. WATERPROOFING COMPOUND MIX WITH CONCRETE FOR WATERPROOFING.
15. ON BOTH SIDES OF THE SHEED WILL BE ASYER APPROVED CURE DRAWING.
16. BEHIND RCC BOX WELL HAND PACKED Boulders/Cobbles TO A THICKNESS NOT LESS THAN 600MM WITH SMALLER SIZE TOWARD BACK HILL, SHALL BE PROVIDED AS PER DRAWING & AS PER CLAUSE 7.5 OF RCC BRIDGE SUB STRUCTURE & FOUNDATION CODE.
17. TOP OF RETAINING WALL SHALL BE KEPT MINIMUM 500 MM ABOVE THE EXISTING GROUND LEVEL AT ALL LOCATIONS IN APPROACH.
18. LAPOUT SHOULD BE CHECKED BY AEN/EN/CON & ALL REFERENCE, HILLS & LINE SHOULD BE KEPT INTACT TILL THE ENTIRE WORK IS COMPLETED.
20. HEIGHT GAUGE, SPEED BREAKER WARNING BOARD ETC SHOULD BE PROVIDED ON BOTH END OF THE SUBWAY.
21. RCC BOX COLLECTION CHAMBER FOR THE RAINWATER, INFILTRATING INTO THE SUBWAY, SHALL BE PROVIDED AND TYPICALLY WITH RCC FLOOR AND WALL SO THAT NO INGRESS OF GROUND WATER INTO THE SUBWAY.
22. TYPICAL PLAN FOR HUMID PILE CULVERT HAS BEEN SHOWN IN THE DRAWINGS FOR CONSTRUCTION AT APPROACHES IF REQUIRED.
23. AS THE GROUND WATER LEVEL IS HIGH ALL THE NECESSARY PRECAUTIONS TO BE TAKEN TO PROTECT THE HUM FROM WATER LOGGING ETC.
24. RECONSTRUCTION OVER THE EXISTING SUBS LETTER NO. 2017/CE-IV/H/S/88DT/23/04/2020.
25. LAND WILL BE ACQUIRED AS PER SITE CONDITION.
26. U-TYPE RETURN WALL AS PER APPROVED CBE NO. 9/HS/PBE-529/117/06-19.
27. L-TYPE OF ROAD IS VILLAGE ROAD.
28. SHARP GAUGE IN THE APPROACH ROAD TO BE AVOIDED.
29. HEIGHT GAUGE AS PER ROAD CODE. R200/M-4001.
30. ALL THE WORK SHALL BE COMPLETED WITHIN 12 MONTHS OF THE START OF THE WORK. LONG TEST SHOULD BE MENTION IN COMPLETION PLAN.
31. HUMP AND STEEL GRATING DRAIN COVER AS PER DRAWING NO. B-10319.

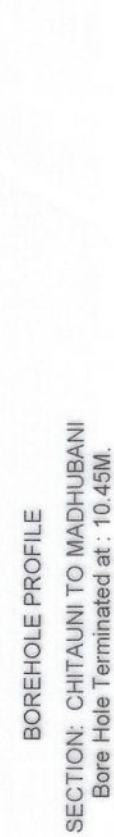
CONSTRUCTION DEPTH	
1) RAIL (60kg)	172 mm
2) RUBBER PAD	10 mm
3) WIDER PSC SLEEPER HEIGHT AT RAIL SEAT	230 mm
4) MINIMUM BALLAST THK.	350 mm
TOTAL	762 mm

COLOR CODE LEGEND

	PROPOSED	VISIBLE	INVISIBLE	EXISTING
RED	—	—	—	—
CONTINUOUS	—	—	—	—
DOTTED	—	—	—	—
BLACK	—	—	—	—

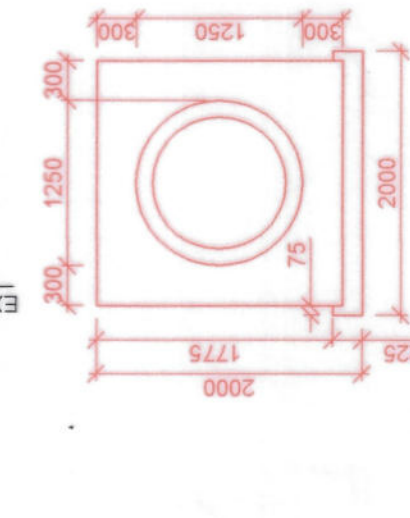


PLAN
DETAILS OF WATER
COLLECTION CHAMBER



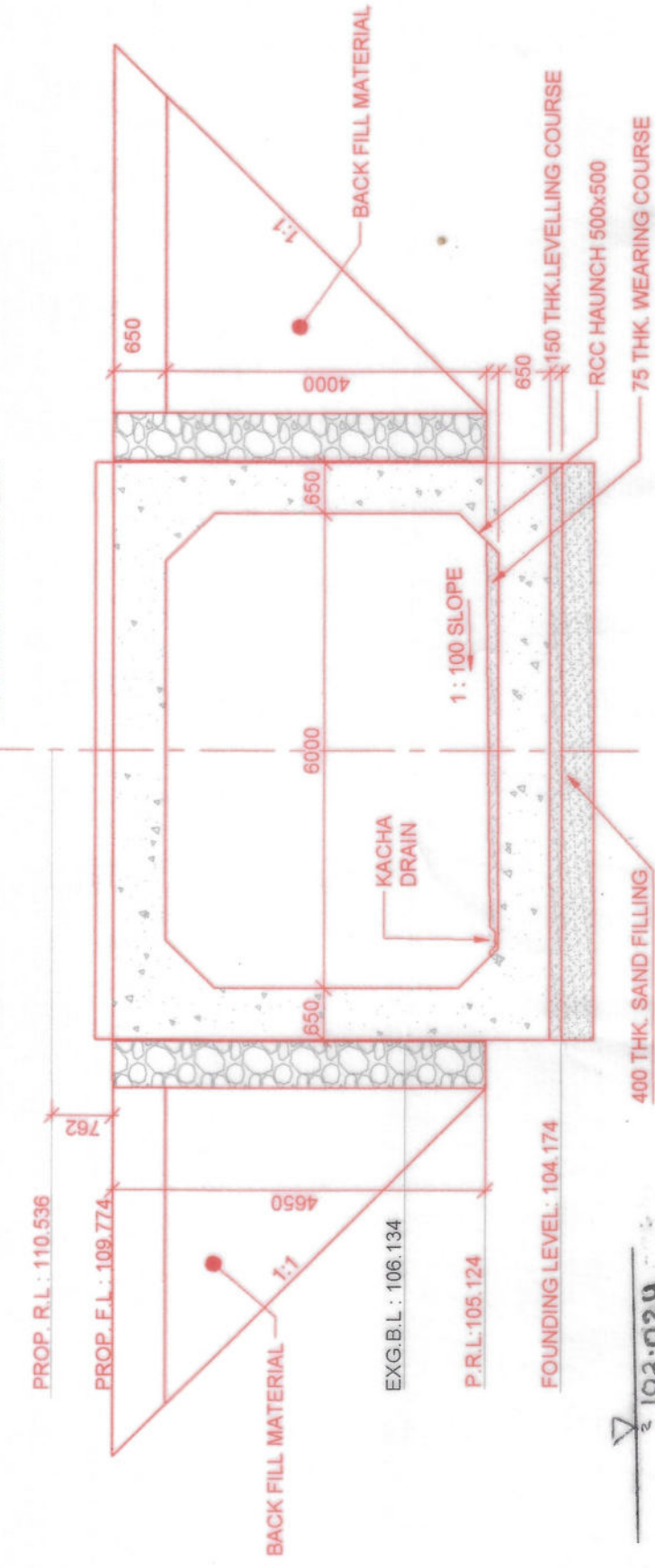
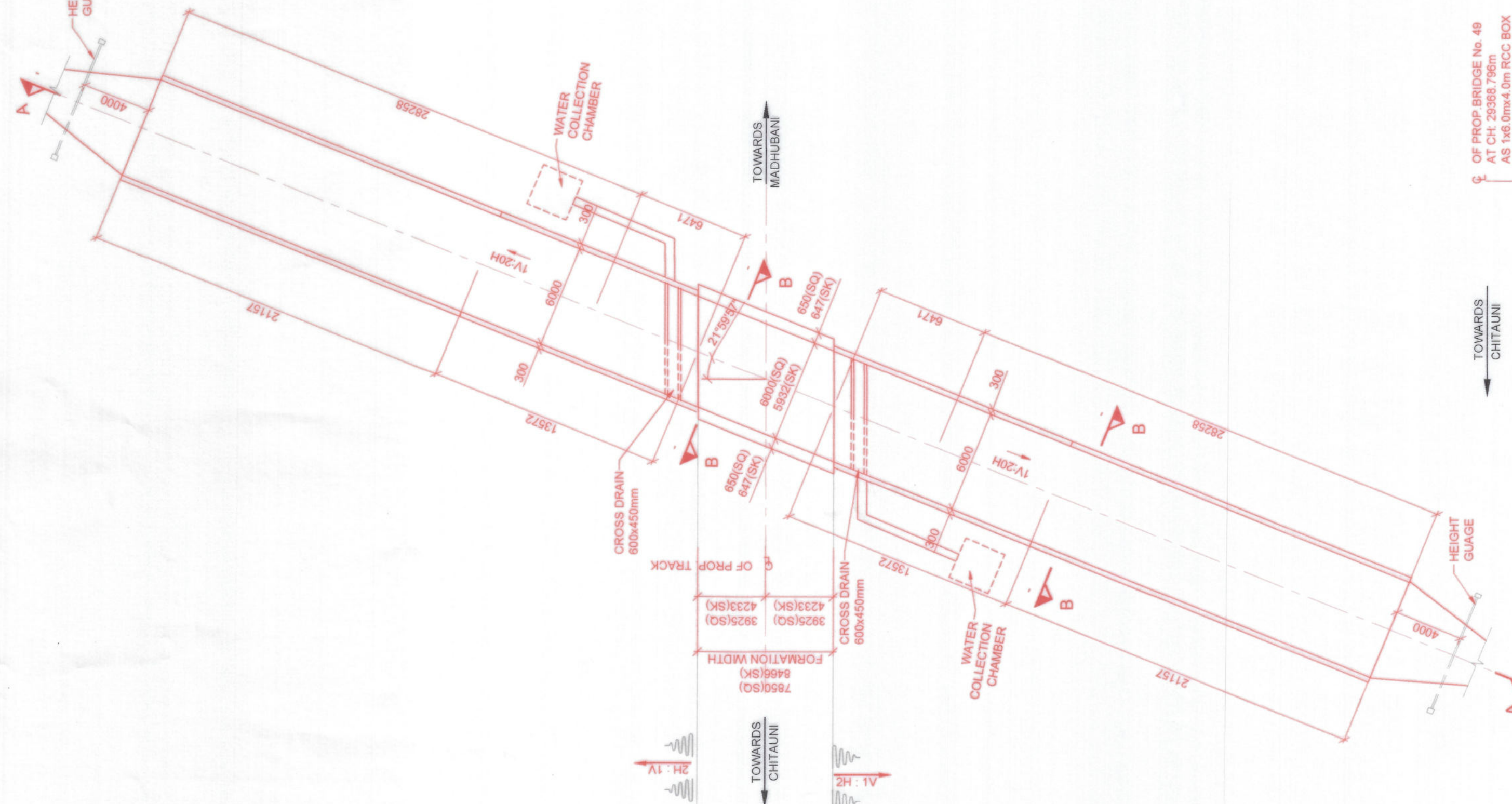
IS CLASSIFICATION	DESCRIPTION OF SOIL	SM		DEPTH (M)	SPT N-VALUE
		1	2		
MEDIUM DENSE LITE GRAY, SILTY SAND (SM)		11	12	0.00	-
		11	12	0.50	0.66
		11	12	1.00	1.66
		11	12	1.50	1.66
		11	12	2.00	1.66
				2.50	1.66
				3.00	3.45
				3.50	4.85
				4.00	6.45
				4.50	6.45
				5.00	7.95
				5.50	9.45
				6.00	9.45
				6.50	10.00
				7.00	10.45

BRIDGE NO.: 49
BOREHOLE NO.: 01



TYPICAL SECTION OF CROSS
HUME PIPE DRAIN IN APPROACH
ROAD OF LHS WORK

H	D
1-2m	300
2-3m	300
3-4m	300
4-5m	400
5-6m	400






HALF ELEVATION HALF SECTION

S. NO.	BR. NO.	CHAINAGE	SIZE OF STRUCTURE	SKREW ANGLE	R/L	FORMATION LEVEL	GL	PROP. ROAD LEVEL	FOUNDATION LEVEL
J	49	20985.796	NO. SPAN (M) (MAYUT (M)	DEGREE	RAIL LEVEL	FORMATION LEVEL	GROUNDLEVEL /EXISTING ROAD LEVEL	105.124	104.174

WT

**FOR EPC
TENDER ONLY**

257-A/LE LOAD-2008	CE / CON / I/GKP	 (SANJAY KANKARIA)
	DY. CE / CON / P&D	 (SHALODRA SINGH)
	XEN / C / DESIGN	 (R.K. SINGH)
	_____ CONST. & HQ. OFFICER'S SIGNATURE	
	NORTH EASTERN RAILWAY	
	PROJECT : CHITAUANI-TAMKUHI ROAD NEW LINE	
	PART-1	

TITLE : GENERAL ARRANGEMENT DRAWING FOR PROPOSED
BR. NO. 49 (1X6.0MX4.0M) (RUB) KM 29/3-4

BETWEEN STATION :-CHITAUNI-MADHUBANI	KM : 29/3-4 CH:- 29368.796M
TYPE OF MAP : GENERAL ARRANGEMENT DRAWING	
FILE NO. AAA/2644/STR/BR NO. 49/GAD/001	

1

CE/CON./Plan No. B/RUB/CTE-Tol/174/06-2025	SCALE	AS SHOWN
Date: 23/06/2025	SHEET :	

<p>Digitally signed by RANJEET KUMAR SINGH DN: cn=RANJEET KUMAR, o=, ou=, email=ranjeetkumar.singh@nic.in, c=IN, serial=2025.06.10, date=2025.06.10 21:27:23 +05'30'</p>	<p>(R. K. SINGH)</p>	<p>(BILAL AHMAD)</p>
<p>4</p>	<p>(G.K. MISHRA)</p>	<p>(SSE/DES/CON/IG)</p>
<p>SSE/II/CON/GKP</p>	<p>SSE/DRG./CON/CPR</p>	<p>JE/DES/CON/GKP</p>

DRAWN

CHK. BY