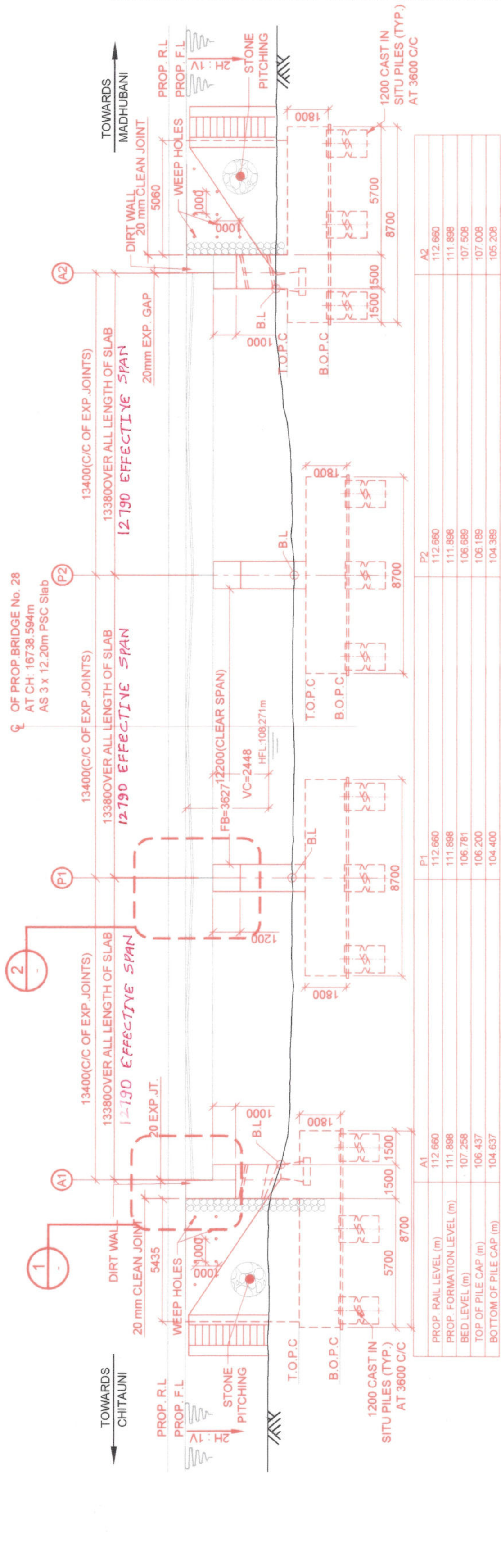
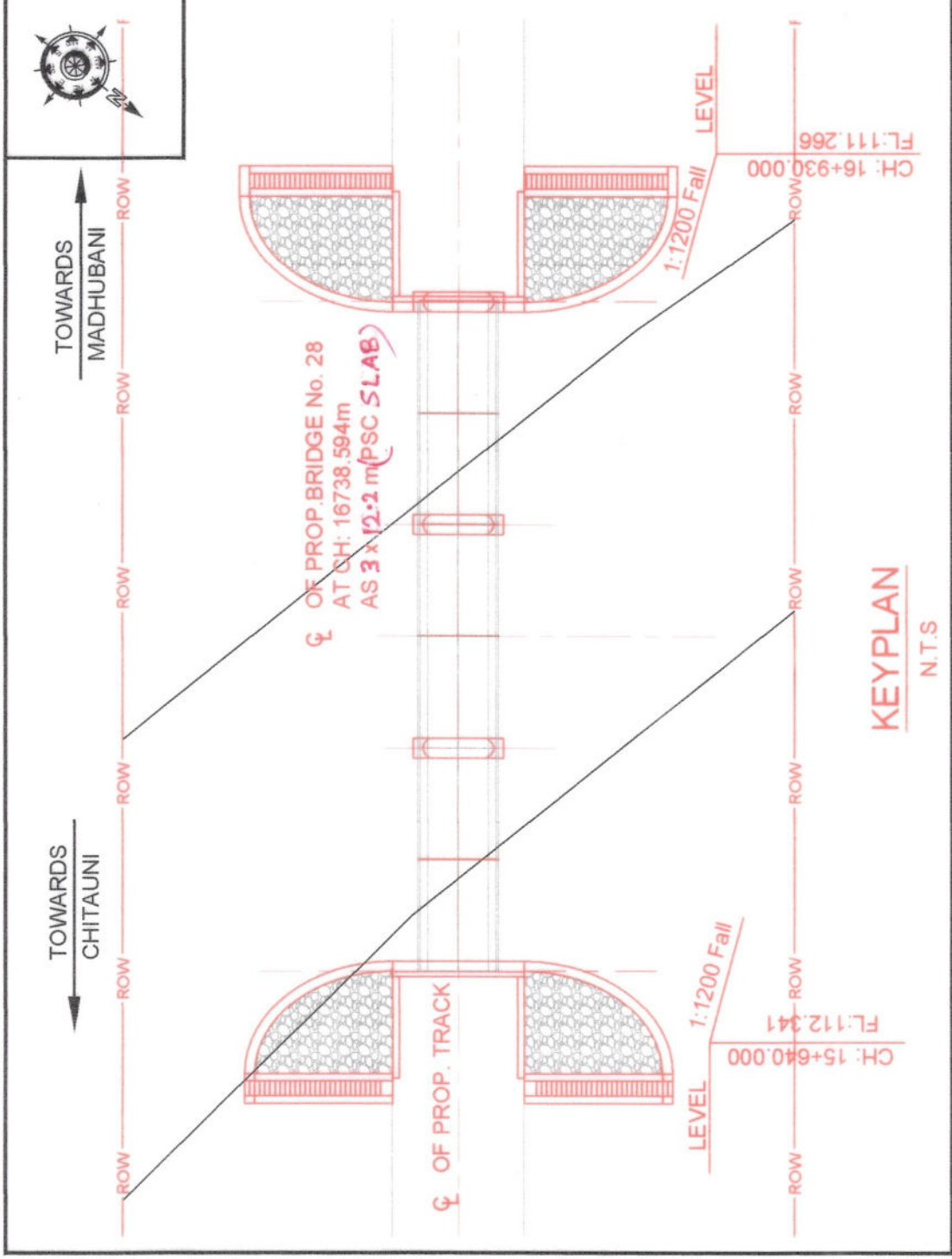
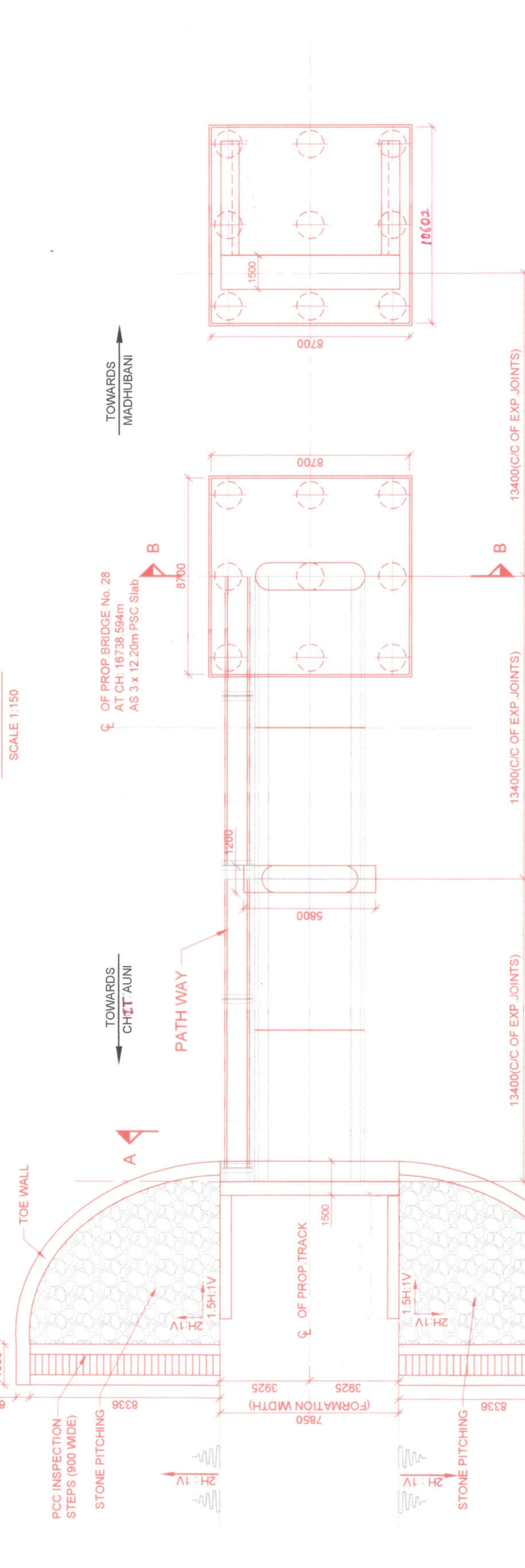


- NOTE:-
1. PROPOSED WORKS SHOWN IN RED.
  2. ALL DIMENSIONS ARE IN mm & ALL LEVELS ARE IN METER'S UNLESS OTHERWISE SPECIFIED.
  3. MINIMUM GRADE OF CONCRETE TO BE FOLLOWED :
    - (a) BED BLOCK - M35
    - (b) ABUTMENT/PIER - M30
    - (c) PILE CAP - M35c
    - (d) PILE - M35
  4. THE DESIGN BASED ON FOLLOWING CODE WITH LATEST CORRECTION SLIPS.
    - (a) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
    - (b) IRS BRIDGE RULES
    - (c) IRS CONCRETE BRIDGE CODE.
    - (d) IS - 456:2000
    - (e) IS - 456:2000 PART-1 SECTION-2
  5. ALL THE CONCRETE SHALL BE DESIGNED MIXED CONTROLLED CONCRETE AS PER I.R.S CONCRETE BRIDGE AND IS 456:2000.
  6. THE CRUSHING STRENGTH OF CONCRETE SHALL BE AS PER CRITERIA SPECIFIED IN I.R.S CONCRETE BRIDGE CODE AND IS 456:2000.
  7. FOR SUPER STRUCTURE DRAWING RDSO/B-1027/IR AND ALL THE RELATED DRAWINGS.
  8. INSPECTION LADDERS AREA TO PROVIDED ON PIERS / ABUTMENTS AS PER SPECIFICATION. FOR ACCESS TO BED BLOCKS FOR INSPECTION.
  9. REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED BARS CONFORMING TO IS:1786.
  10. ONLY ONE TYPE OF CEMENT & STEEL MUST BE APPROVED BY DY. CE / CON OF THE PROJECT.
  11. DIMENSIONS GIVEN IN THIS DRAWING MUST BE RECONCILED AT SITE BEFORE START OF THE WORK FOR FEASIBILITY.
  12. CONTROLLED CONCRETE DESIGN MIX CONCRETE WITH WEIGHT BATCHING OR AUTOMATIC WEIGHT BATCHING WITH PAN MIXTURE IF APPLICABLE SHALL BE USED.
  13. THE BACKFILL BEHIND ABUTMENT, WING WALL AND RETURN WALL SHOULD BE AS PER CLAUSE 7.5 OF I.R.S BRIDGE SUB-STRUCTURE AND FOUNDATION CODE WITH UP TO DATE ALL CORRECTION SLIPS.
  14. 600MM FILTER MEDIA SHALL BE PROVIDED WITH HAND PACKED BOULDERS ON THE EARTH FACE OF ABUTMENT/RETURN WALL VOIDS BETWEEN BOULDERS SHALL BE FILL WITH SMALLER SIZED STONES TO PREVENT OUT FLOW OF BACK FILLED MATERIALS.
  15. WEEP HOLES SHALL BE 75/100 DIA PVC PIPES STAGGERED 1000MM C/C HORIZONTALLY AND VERTICALLY ABOVE L.W.L OR F.S.L IN CASE OF CANAL BRIDGE IN BOTH WING/RETURN WALL AND EARTH RETAINER / ABUTMENT OF BRIDGE SHOULD BE AS PER CLAUSE 7.6 OF I.R.S BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
  16. THE RAIN SLOPES BEYOND THE BOULDERS PITCHING SHALL BE PROTECTED FROM RAIN CUTS BY PROVIDING TURNING.
  17. ALL WORK SHALL BE CARRIED OUT AS PER THE INSTRUCTIONS & SUPERVISION OF THE ENGINEER.
  18. SHARP EDGES OF CONCRETE SHALL BE CHAMFERED.
  19. BRIDGES COMES UNDER SEISMIC ZONE IV AREA.
  20. EXPOSURE CONDITION OF BRIDGES IS MODERATE.
  21. PITCHING WORK SHALL BE DONE IN ACCORDANCE WITH ANNEXURE-1 AS PER WCON/29/01/AM-1/PART-III DATED 11-11-2009.
  22. SEPARATE DRAWING WILL BE ISSUED FOR RETURN TOE WALL.
  23. DIMENSION SHOWN IN SUBSTRUCTURE ARE TENTATIVE IN NATURE DETAILED DESIGN CALCULATION AND SOIL REPORT WILL BE SUBMITTED ALONG WITH STRUCTURAL DRAWINGS.
  24. THE DEPTH OF PILES SHOWN IN DRAWING MAY Varies AT THE TIME OF DESIGNING OF THE SUB STRUCTURE OF BRIDGES.
  25. THE EXECUTION OF BRIDGES WILL START AFTER APPROVAL OF DESIGN FROM RAILWAYS.
  26. DUCTILE DETAILING OF REINFORCEMENT CONCRETE SHALL BE AS PER IRS SEISMIC CODE -2020.
  27. INITIAL PILE TEST REPORT MUST BE PROVIDED BY CE/CON BEFORE EXECUTION OF TRANSITION SYSTEM SHOULD BE PROVIDED AT BOTH END OF ABUTMENT AS PER RDSO DRG. NO. GE/SK/9124/REV.02/2024.
  28. MINIMUM 150 MM PROJECTION IN BEARING PEDESTAL IS REQUIRED.
  29. PILE ARRANGEMENT ANALYSIS TO BE SUBMITTED WITH DESIGN.
  30. LIQUEFACTION ANALYSIS TO BE SUBMITTED WITH DESIGN.
  31. SUB-STRUCTURE PROPOSED IS FOR SINGLE LINE TRACK ONLY.
  32. FIELD UNIT MUST PRE VALIDATE ALL DATA AND LEVELS BEFORE EXECUTION OF WORK COMMENCES.
  33. LATEST RAILWAY BOARD GUIDELINES REGARDING RSI ANALYSIS MUST BE FOLLOWED.
  34. ALL REINFORCEMENT DETAILS WILL BE ISSUED SEPARATELY.
  35. CRS MINOR SECTION IS REQUIRED TO BE TAKEN BEFORE EXECUTION OF WORK STARTS.
  36. THE EXECUTION OF BRIDGE WORK AT SITE SHALL START AFTER APPROVAL OF DESIGN FROM RAILWAYS.
  37. FOOTPATH SLAB AS PER RDSO DRG. NO. B-10284 MUST BE PROVIDED.
  38. DIMENSIONS OF U-THE RETURN WALL TO BE PROVIDED AS PER SITE CONDITION.

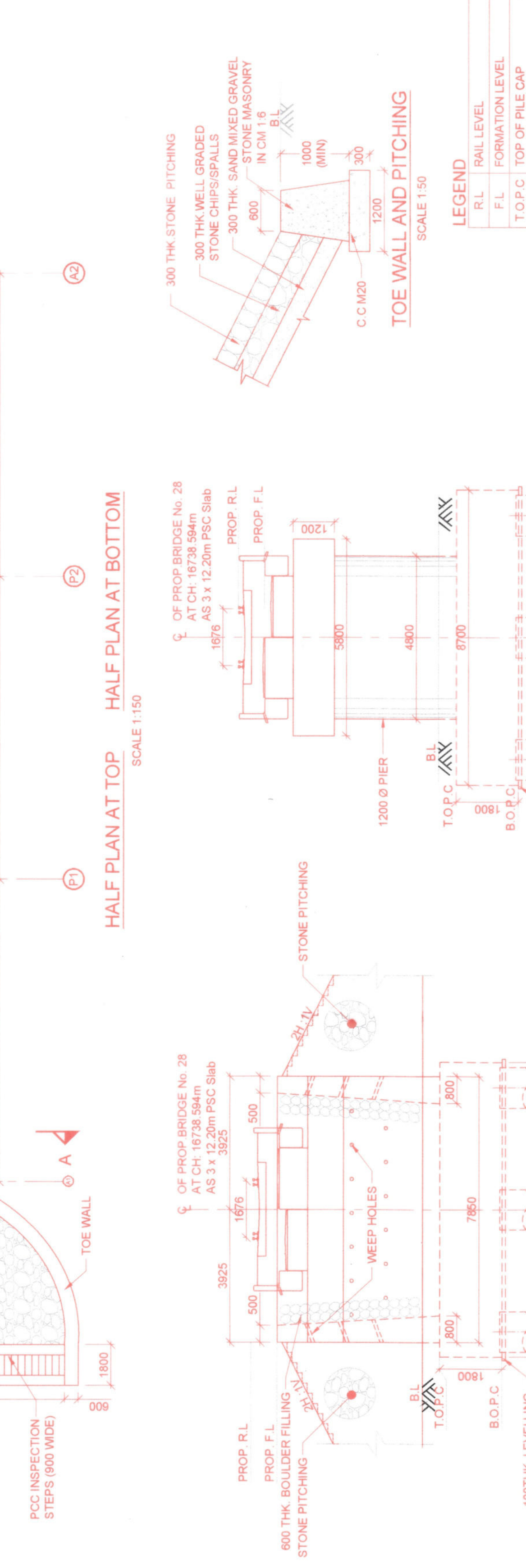
AUTHORITY OF WORK  
PINK BOOK- 2024-25  
PAGE NO.-42-1  
ITEM NO. - 14



ELEVATION  
SCALE 1:150



HALF PLAN AT TOP  
SCALE 1:150



HALF PLAN AT BOTTOM  
SCALE 1:150



SECTION A-A  
SCALE 1:100



SECTION B-B  
SCALE 1:100



TOE WALL AND PITCHING  
SCALE 1:50

BOREHOLE PROFILE  
SECTION: CHITAUANI TO MADHUBANI  
Bore Hole Terminated at: -40.45M

DEPTH (M)	SPT N-VALUE	DESCRIPTION OF SOIL	CLASSIFICATION
0.00	1.5	SM	POORLY GRADED SAND (SP)
1.50	1.95	SM	POORLY GRADED SAND (SP)
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BOREHOLE PROFILE  
SECTION: CHITAUANI TO MADHUBANI  
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7	1200	MEGENTA	_____	FUTURE
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