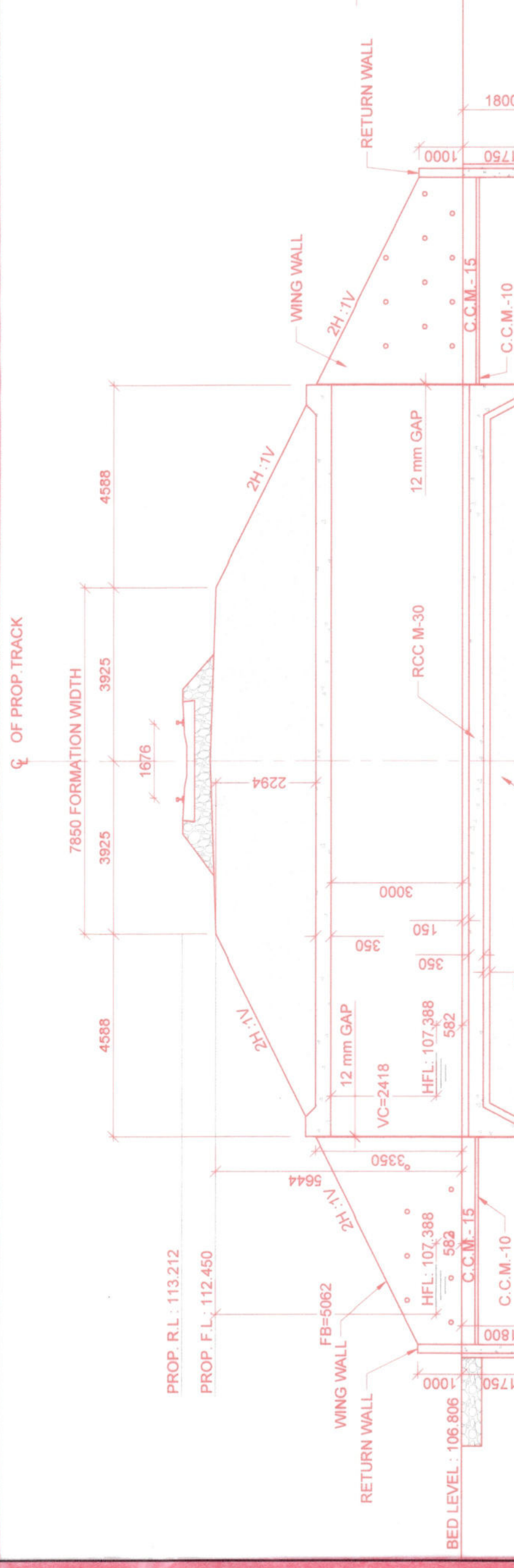
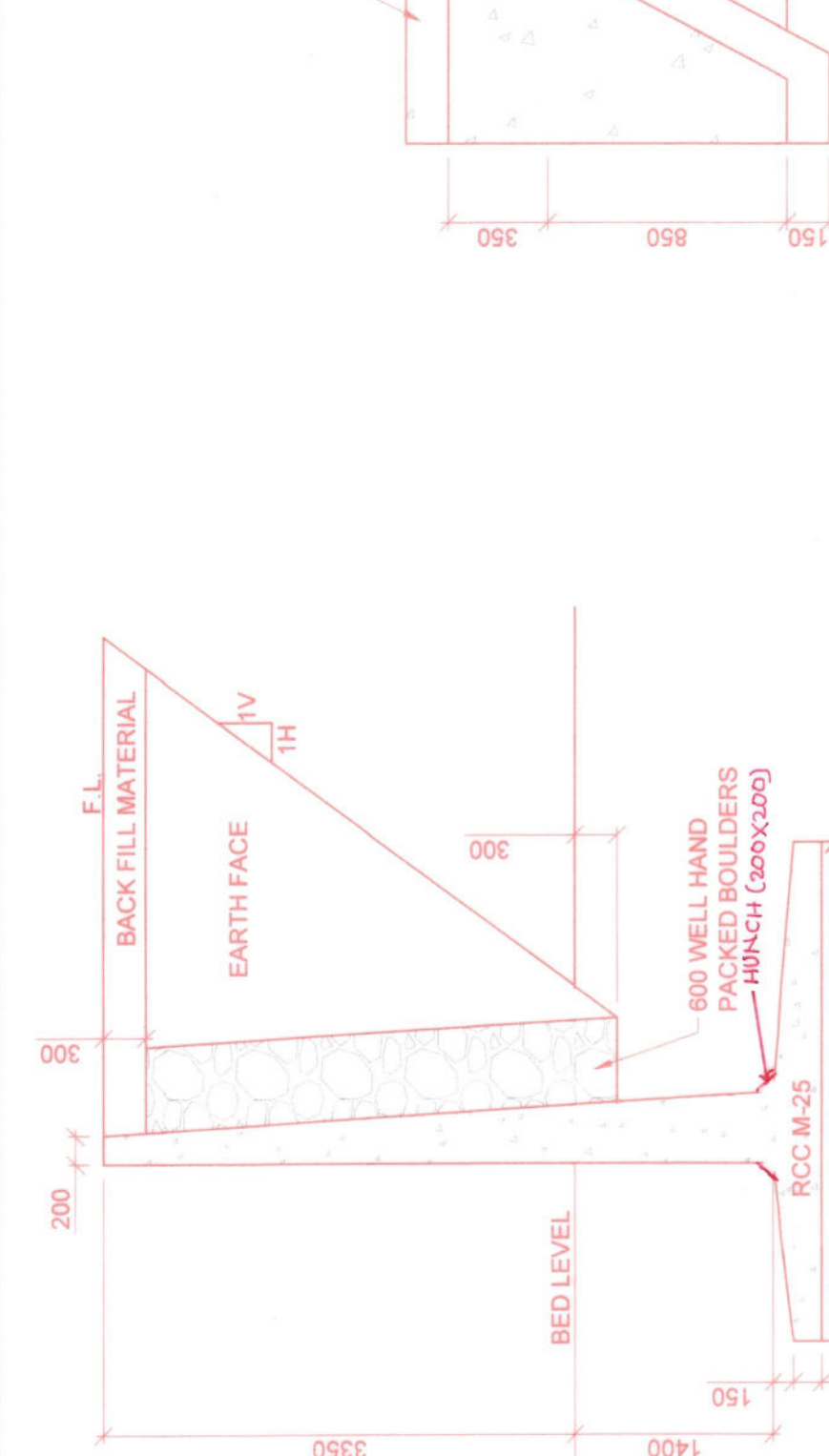
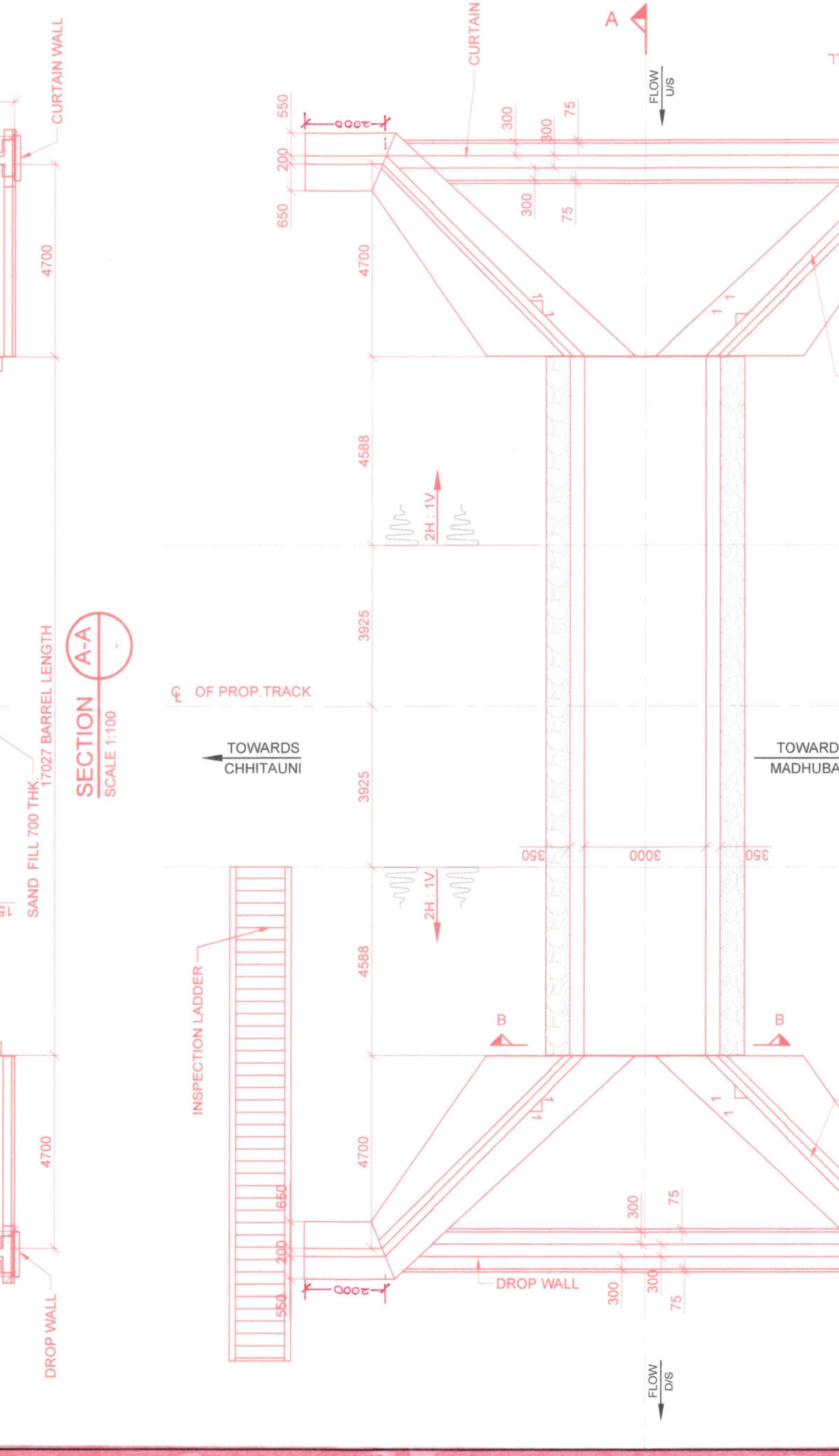
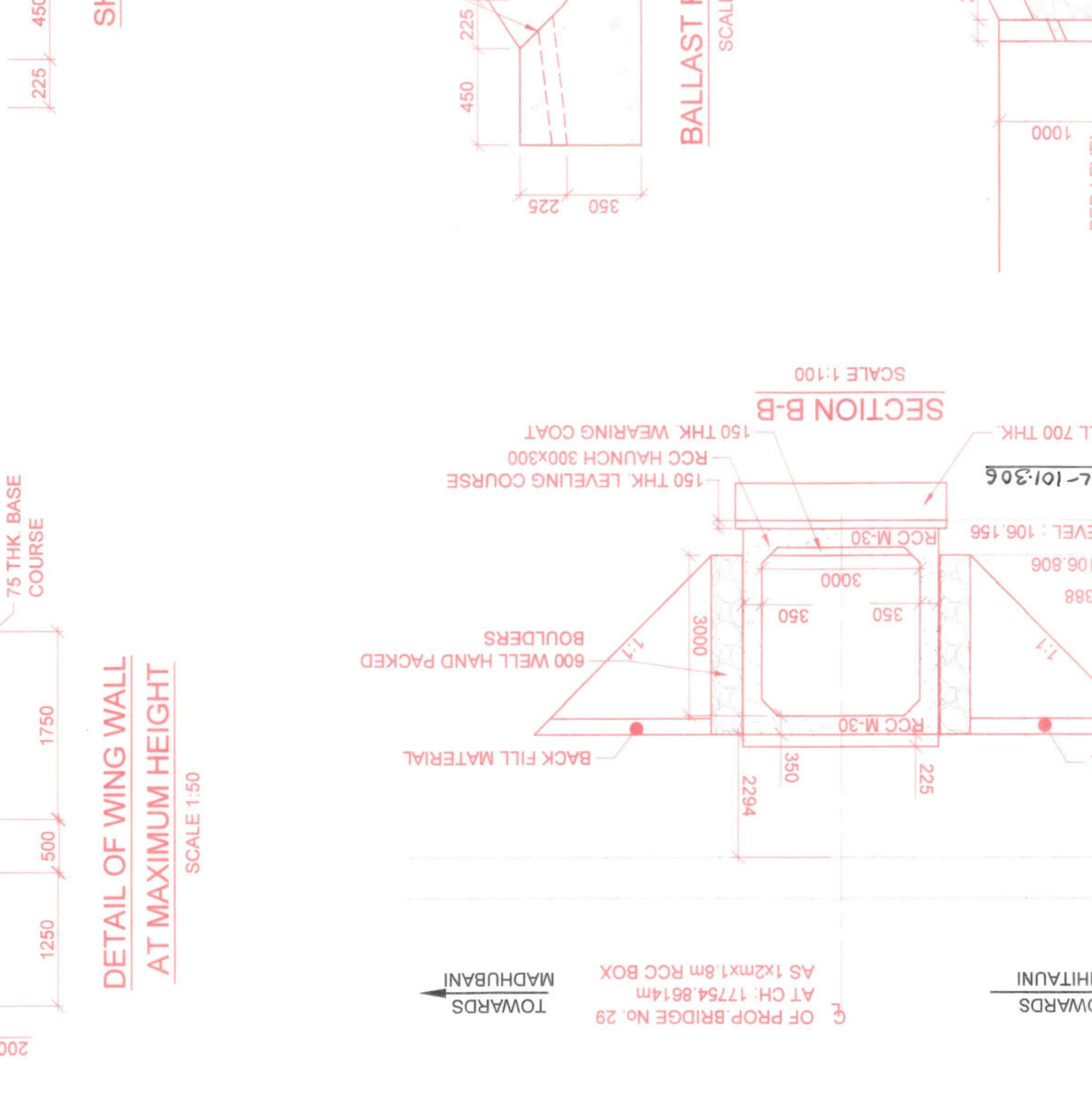


AUTHORITY OF WORK
PINK BOOK- 2024-25
PAGE NO.-42:1
ITEM NO. - 8



- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 - NO DIMENSIONS ARE TO BE SCALED FROM THE DRAWING (ONLY WRITTEN DIMENSIONS TO BE FOLLOWED).
 - SITE ENGINEER SHOULD VERIFY ALL THE DIMENSIONS AND LEVELS AT SITE BEFORE EXECUTION OF WORK IN THE FIELD.
 - RCC BOX AND STRUCTURE DETAILS ARE AS PER RDSO DRAWING NUMBER: RDSO/B-10152/R & RDSO/B-10152/4R
 - AS A PRECAUTIONARY MEASURE PROPER DROP WALL WITH BOULDER PITCHING AND CC FLOORING WILL BE PROVIDED AS PER THIS PLAN.
 - FOR MASS CONCRETE CC M-15 AND FOR RCC M-30 WILL BE USED EXCEPT OTHERWISE MENTIONED. ALL CONCRETING SHALL BE DONE CONFORMING TO IRS CONCRETE BRIDGE CODE.
 - ALL REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE (FE-415 CONFORMING TO IS:1786).
 - THE BACKFILL BEHIND RCC BOX, WING WALL AND RETURN WALL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE WITH 10% OVERSIGHT.
 - CIRCULAR WEIR HOLES OF 10 MM PVC PIPE SHALL BE PROVIDED IN THE WING WALL AND RETURN WALL ABOVE HFL AT INTERVALS OF 100MM HORIZONTALLY AND VERTICALLY IN A STAGGERED POSITION.
 - THE MAXIMUM DESIGN FOUNDATION PRESSURE IS 13.05 T/M² SITE ENGINEER SHOULD GET THE SOIL CLASSIFICATION AND BEARING CAPACITY TESTED AND APPROVAL LEVEL SHOULD BE ENSURED.
 - ORDINARY PORTLAND CEMENT (OPC) GRADE 43 / 53 CONFIRMING 15.811/15.12269 CAPABLE OF ACHIEVING THE REQUIRED DESIGNED CONCRETE STRENGTH SHALL BE TAKEN IN CASE OF LOWER BEARING CAPACITY OR BAD SOIL. ONLY ONE TYPE OF CEMENT AND STEEL SHALL BE USED ON A PARTICULAR BRIDGE AND BRAND OF CEMENT AND STEEL SHOULD BE APPROVED BY SITE ENGINEER.
 - THE LOCATION AND PROVISION OF CONSTRUCTION JOINTS SHALL BE DECIDED BY THE SITE ENGINEER. CONSTRUCTION JOINTS SHALL BE TESTED AS PER THE RELEVANT SPECIFICATION.
 - CONCRETE SHALL BE PRODUCED IN MECHANICAL MIXTURE OF CAPACITY NOT LESS THAN 200 LITERS HAVING INTEGRAL WEIGH BATCHING FACILITY AND AUTOMATIC WATER MEASURING AND DISPENSING.
 - PROPER COMPACTION OF CONCRETE SHALL BE ENSURED BY USE FORM AND/OR VIBRATOR.
 - WING/RETURN WALLS SHALL BE CHAMBERED.
 - WING/RETURN WALL AS PER CE/CON PLAN NO.8/14/02-11.
 - THIS BRIDGE LIES IN SEISMIC ZONE- IV.
 - DROP WALL CURTAIN WALL AS PER DESIGN.
 - PROVISION OF INSPECTION STAIRCASE SHOULD BE MADE ON SITE.
 - A MINIMUM DEPTH BELOW FLOOR LEVEL OF CURTAIN WALL SHOULD BE 800 MM AND 500 MM PROP AND CURTAIN WALL WITH THESE DIMENSIONS.
 - FLEXIBLE A PROCH IN THICK COMPRISING OF LOOSE STONE. BOULDER (WEIGHING NOT LESS THAN 40KGS) SHOULD BE PROVIDED BEYOND THE CURTAIN WALL FOR A MINIMUM DISTANCE OF 30M ON UPSTREAM SIDE AND 5M ON DOWNSTREAM AS PER IRC SP-13.



FOR EPC TENDER ONLY

LOADING STANDARD
25T AXLE LOAD-2008

DY. CE / CON / BSE (PAKAI PANDEY)	CE / CON / I/GKP (SARAT KANUA)
XEN / CON / GKP (S.K.SINGH)	DY. CE / CON / P&D (SARAT KANUA)
XEN / C / DESIGN (R.K.SINGH)	XEN / C / DESIGN (R.K.SINGH)

CONST. & HQ. OFFICER'S SIGNATURE

CLIENT: NORTH EASTERN RAILWAY

PROJECT: CHITAUANI-TAMKUHI ROAD NEW LINE PART-1

TITLE: GENERAL ARRANGEMENT DRAWING FOR PROPOSED BR. NO. 29 (1X3.0MX3.0M) (MINOR) KM 177-8

BETWEEN STATION - CHITAUANI-MADHUBANI KM - 177-8 CH - 17754.881 M

TYPE OF MAP: GENERAL ARRANGEMENT DRAWING

FILE NO. AAA/2644/STR/BR NO. 29/GAD/001

CONSULTANT

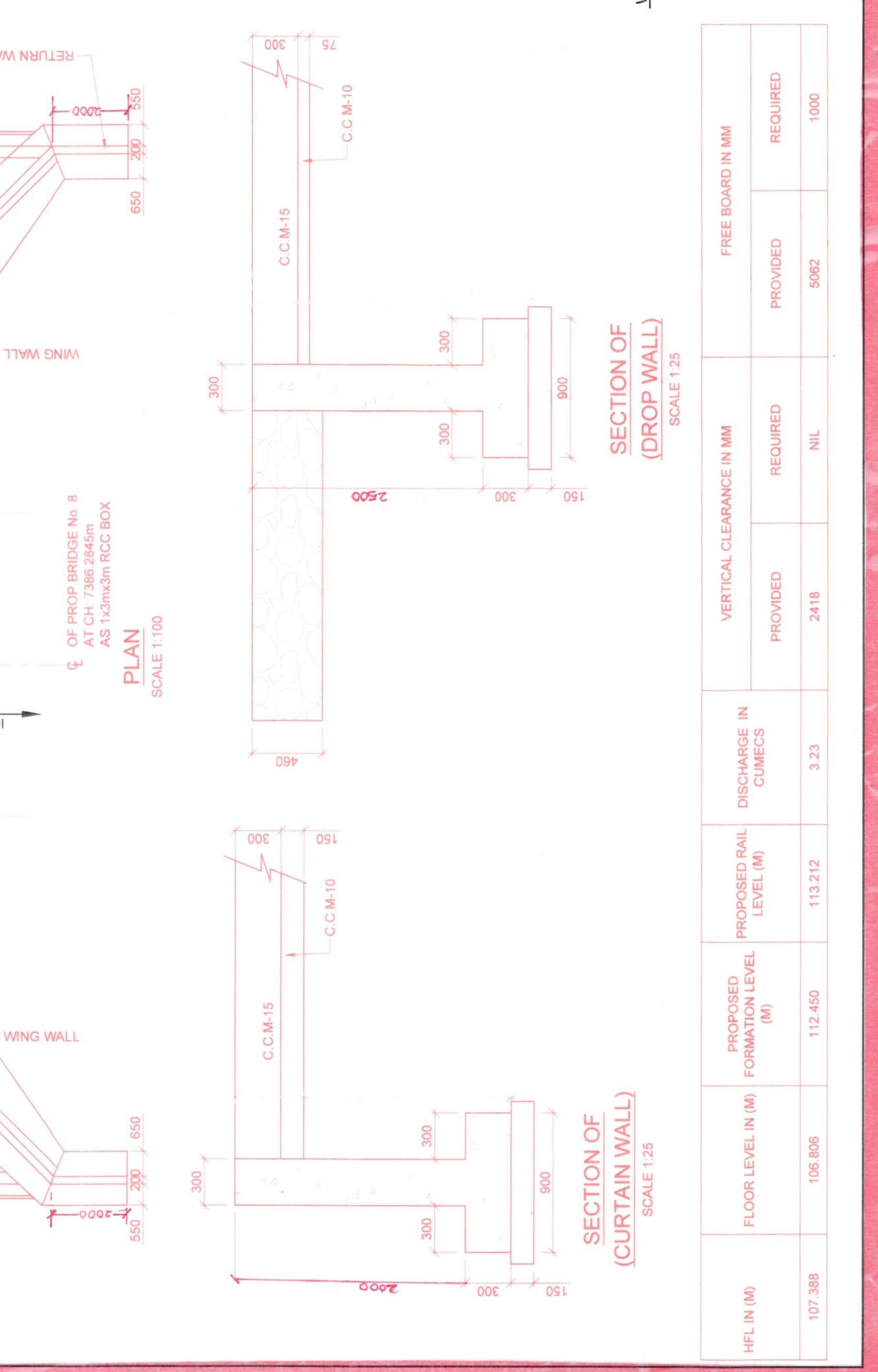
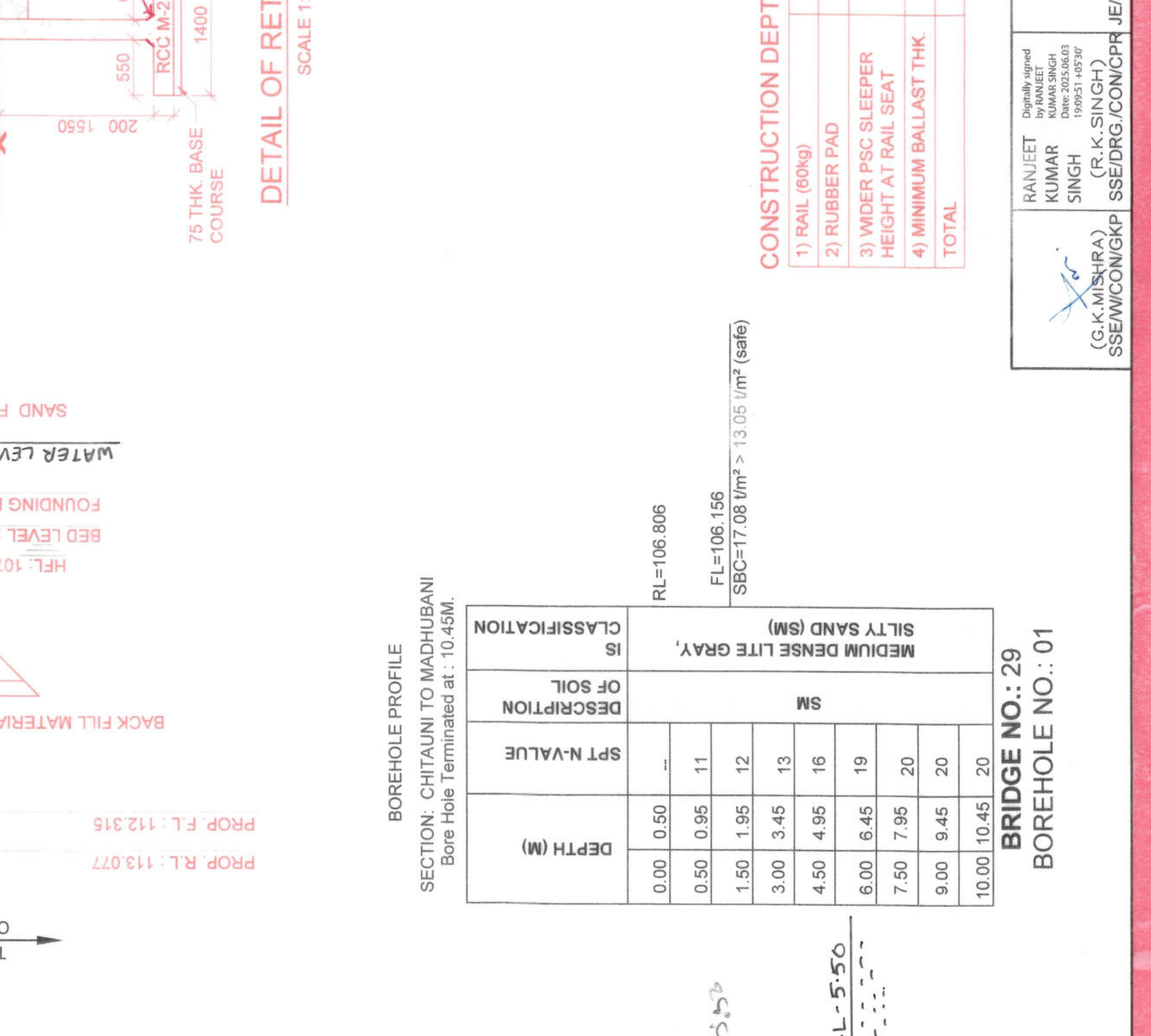
CE Plan No. B/C/E-707/16/16-2025

Date: 15/05/2025

SCALE

AS SHOWN

SHEET: 1/1



COLOR CODE LEGEND

RED	PROPOSED
CONTINUOUS	VISIBLE
DOTTED	INVISIBLE
BLACK	EXISTING
	TO BE DISMANTLED

LEGEND

F.L	FORMATION LEVEL
R.L	RAIL LEVEL
B.L	BED LEVEL
BOF	BOTTOM OF FOUNDATION
PROP	PROPOSED
EXG	EXISTING
THK	THICKNESS
CH	CHAINAGE
PCC	PLAIN CEMENT CONCRETE
RCC	REINFORCED CEMENT CONCRETE
BR	BRIDGE

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

BOREHOLE PROFILE

SECTION: CHITAUANI TO MADHUBANI

Bore Hole Terminated at: 10.45M.

DEPTH (M)	SPT N-VALUE	DESCRIPTION OF SOIL	IS CLASSIFICATION
0.00	0.50	SM	SILTY SAND (SM)
0.50	0.95	11	MEDIUM DENSE LITE GRAY,
1.50	1.95	12	
3.00	3.45	13	
4.50	4.95	16	
6.00	6.45	19	
7.50	7.95	20	
9.00	9.45	20	
10.00	10.45	20	

RL=106.806

FL=106.156

SBC=17.08 t/m² > 13.05 t/m² (safe)

SECTION OF (DROP WALL)

SCALE 1:25

SECTION OF (CURTAIN WALL)

SCALE 1:25

HFL IN (M)	FLOOR LEVEL IN (M)	PROPOSED RAIL FORMATION LEVEL (M)	DISCHARGE IN CUMEC	VERTICAL CLEARANCE IN MM	FREE BOARD IN MM
107.388	106.806	112.450	3.23	2418	5062
					1000