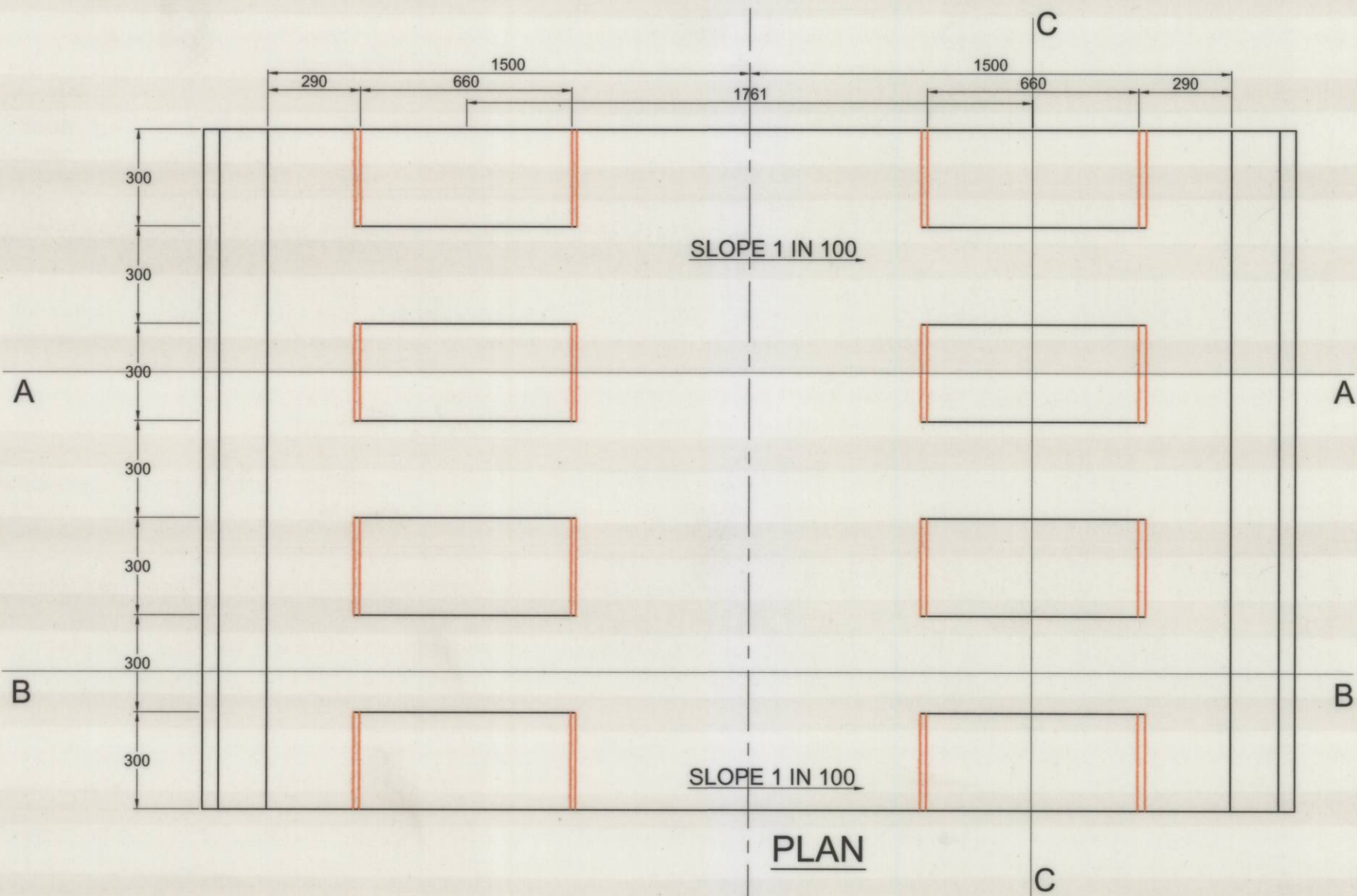
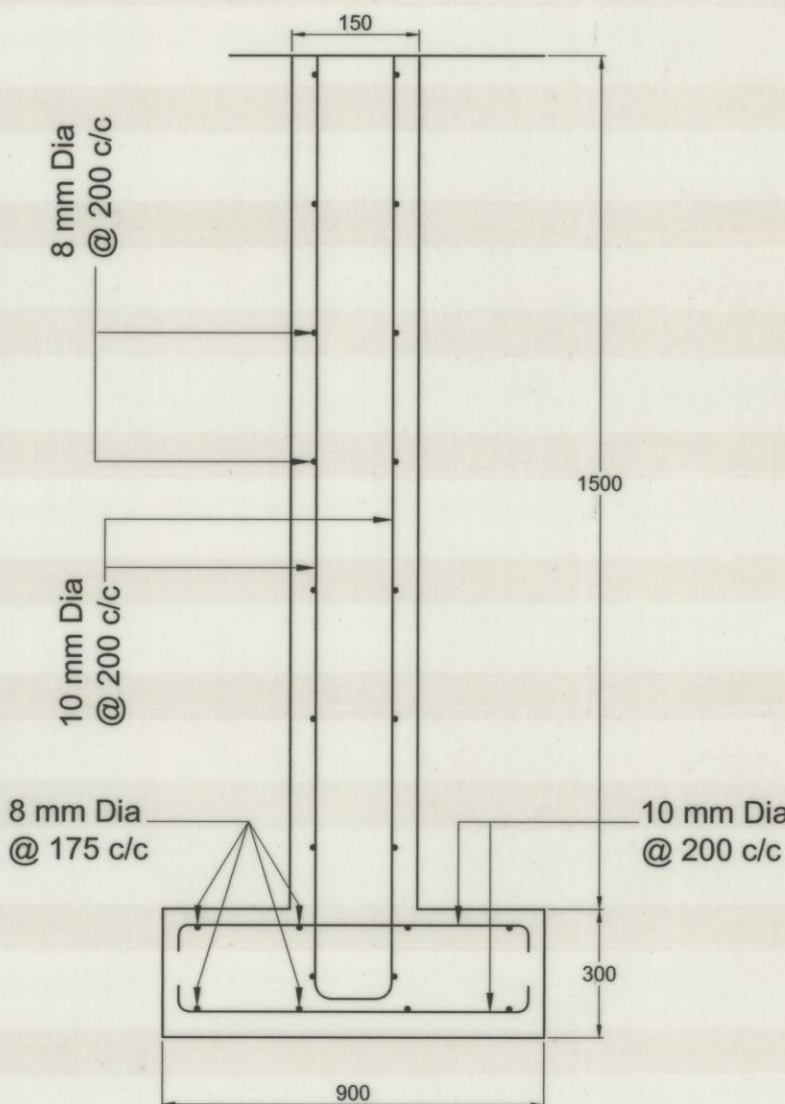


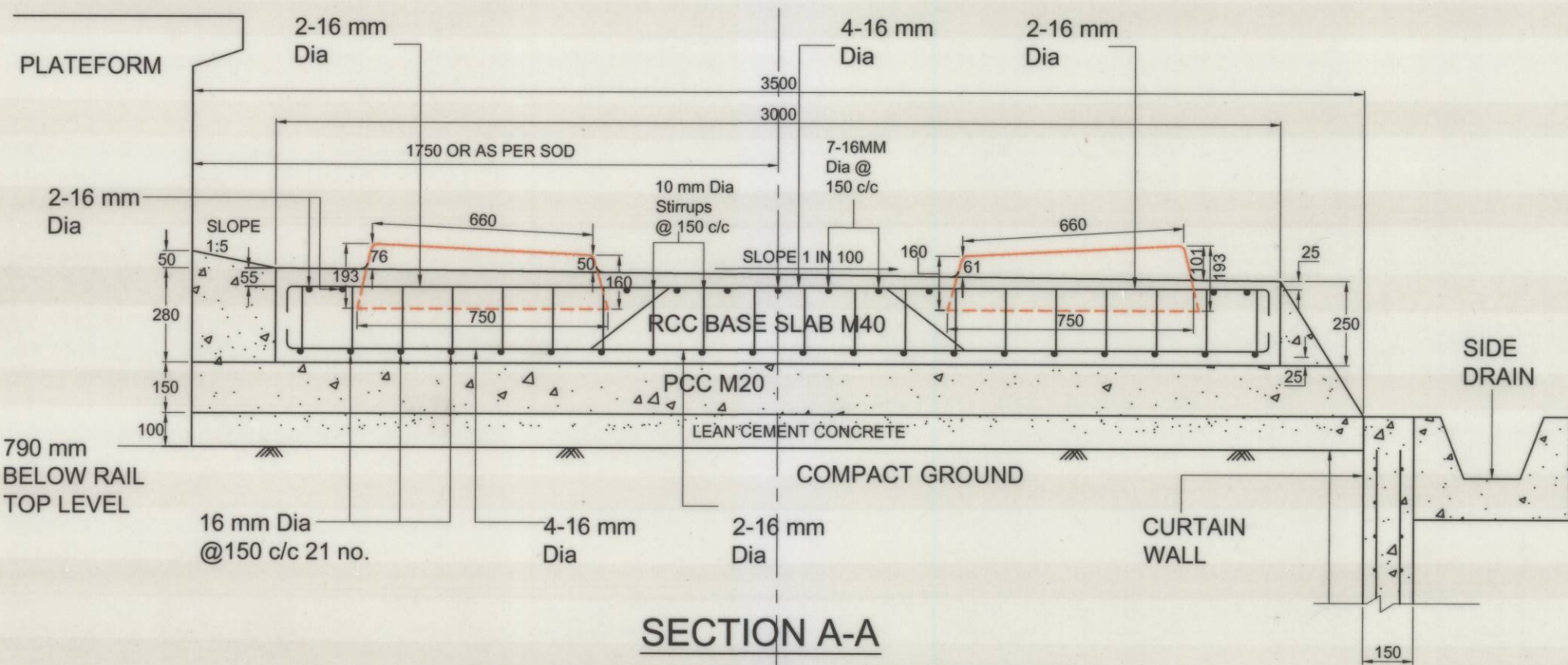
SEQUENCE OF CONSTRUCTION WORK

1. PROCURE REQUIRED NUMBER OF CANTED 'PARTLY CAST' RAIL SEAT BEAM' (PCRSB) MANUFACTURED AS PER DRAWING NO. HQ/02/03-2016, 10MM COMPOSITE GRSPs; ERCs AND LINERS AND KEEP THESE READY AT SITE.
2. KEEP ALL THE FITTINGS, JIGS TO HOLD THE RAIL/TRACK, REINFORCEMENT STEEL READY BEFORE UNDERTAKING THE WORK.
3. ENSURE SUBGRADE BEARING CAPACITY OF 10 T/SQM AT SUBGRADE TOP OR CARRY OUT GROUND IMPROVEMENT TO ACHIEVE THE SAME, IF REQUIRED.
4. CONSTRUCT, CURTAIN WALL (FOR PLATFORM LINES ONLY) AS PER DRAWING. WITH RCC (M-20).
5. CONSTRUCT 100 MM THICK LEAN CONCRETE BASE IN WIDTH OF 3.5M OVER WELL- COMPACTED AND LEVELLED SUBGRADE AND CURE IT FOR 3 DAYS.
6. DO 150 MM THICK M 20 CONCRETE BASE OF WIDTH 3.5 M AND CURE IT FOR 7 DAYS. HOWEVER REINFORCEMENT PLACEMENT FOR RCC BASE SLAB AND BINDING WORK CAN BE STARTED AFTER 3 DAYS OF CURING. PLACE BOTTOM LAYER OF SLAB REINFORCEMENT.
7. PLACE THE PARTLY CAST RAIL SEAT BEAMS AT EVERY 60 CM SPACING AND CENTRALLY ON PCC BASE ACCURATELY.
8. PROVIDE THE TOP LAYER OF REINFORCEMENT BARS OF SLAB AND TIE THESE WITH BEAM REINFORCEMENT.
9. ASSEMBLE TRACK OVER THE PCRSB USING 10MM RUBBER PADS, ERCs, LINERS & RAILS. HOLD BOTH RAIL WITH SPECIALLY DESIGNED JIGS IN BETWEEN EVERY THIRD PARTLY CAST RAIL SEAT BEAM (1.8 M).
10. CHECK THE TRACK PARAMETERS VIZ. GAUGE, CROSS LEVEL & ALIGNMENTS. ADJUST THE JIG'S VERTICAL & HORIZONTAL SCREW TO GET THE REQUIRED TRACK PARAMETERS ACCURATELY SECURING TRACK IN THIS POSITION.
11. FIX SHUTTERING FOR GETTING REQUIRED DIMENSION AS PER DRAWING.
12. CHECK TRACK GAUGE, LEVEL AND ALIGNMENT ONCE AGAIN, CORRECTING IT WHEREVER NEEDED.
13. START CONCRETING OF SLAB AND BEAMS WITH M40 GRADE CONCRETE (PREFERABLY RMC). ENSURE PROPER COMPACTION OF CONCRETE BY NEEDLE VIBRATORS, ALL THROUGH THE RCC MASS.
14. PROVIDE SLOPE IN SLAB AREA AS PER DRAWING. CORNERS AND EDGES OF MAIN BEAM SHOULD BE MANUALLY ROUNDED OFF BY TROWEL FOR PROPER DRAINAGE.
15. REMOVE THE JIGS FROM TRACK AFTER 8 - 12 HOURS AFTER CONCRETING. FILL THE CAVITIES USING MORTAR MADE FROM NON-SHRINKABLE CEMENT.
16. REMOVE THE SHUTTERING AFTER 8-12 HOURS AND CURE THE CONCRETE FOR 21 DAYS.
17. CONSTRUCT SIDE DRAINS AND CROSS DRAINS AS PER SITE REQUIREMENT.
18. THIS PLAN IS BASED ON RDSO PLAN NO. RT-8305, 8304.

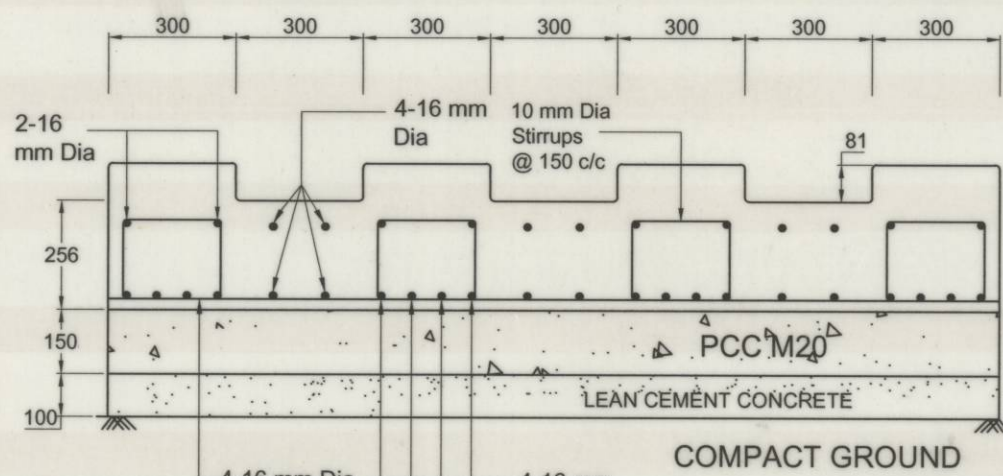
FOR DETAILED INSTRUCTIONS , FOLLOW THE "GUIDELINES FOR CONSTRUCTION OF BALLASTLESS TRACK WITH INDIGENOUS FASTENING SYSTEM (BLT-IFS)" ISSUED BY RDSO EXCLUDING PARA REGARDING SGC BEARING PLATE AND BEAM/BASE PAD. (DOCUMENT NO. CT-31 (REVISED) ISSUED IN DECEMBER,2013)



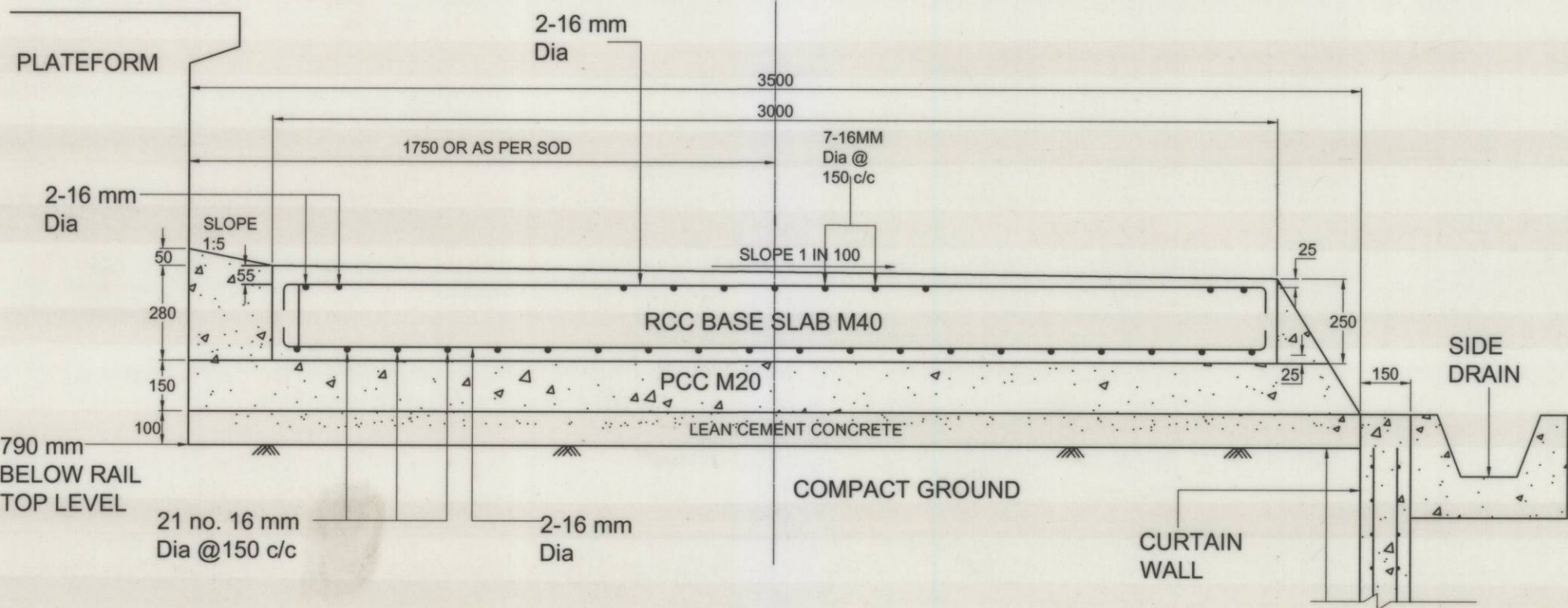
DETAIL OF CURTAIN WALL



SECTION A-A
(TYPICAL SECTION FOR PLATFORM LINES)



SECTION C-C



SECTION B-B
(TYPICAL SECTION FOR PLATFORM LINES)

APPROXIMATE QUANTITY OF CEMENT AND STEEL PER 100 M OF WASHABLE APRON

	LEAN CONCRETE (1:4:8)	PCC (M-20)	RCC (M-20)	RCC (M-40)
QTY.(Cum)	35.00	63.00	35.00	70.00
CEMENT (MT)	5.95	25.20	12.04	34.30
STEEL (MT)	-	-	-	11.65

NOTE

1. THE ACTUAL QUANTITY OF CEMENT FOR M-20 PCC AND M-40 RCC WOULD BE DETERMINED BY DESIGN MIX.
2. THE ABOVE QUANTITY OF RCC IS EXCLUDING RAIL SEAT BEAM AND DRAIN.

CE/P&D	(M.P. SINGH)
DY.CE/P&D	(A.V.MITTAL)
XEN/P&D	(K.K. SHARMA)

NORTHERN RAILWAY

WASHABLE APRON BASED ON BLT-IFS CONCEPT (SPEED UPTO 30KMPH FOR PASSENGER/EMPTY GOODS AND 15KMPH FOR LOADED GOODS) GENERAL ARRANGEMENT DRAWING

DRAWN BY	RAHUL CHAUDHARY JE/D&D
SSE/DSN	K.P. DINGI SSE/DESIGN

SCALE	NTS
H.Q. CASE NO.	397-W/O/4/POLICY/PLAN-II
CANCEL HQ PLAN NO.	
N.R.TYPE PLAN NO.	L-42 (SHEET-1 OF 2)
N.R.H.Q.E. PLAN NO.	HQ/02/03-2016 (SHEET-1 OF 2)

8. FOR LOADED GOODS TRAINS, THE SPEED RESTRICTION WOULD BE 15 KMPH UNDER THE TRIAL PERIOD 2 YEARS AND WILL BE REVIEWED THERE AFTER.
7. FOR PLATFORM LINES (WASHABLE APRON), 250mm THICK COARSE SAND LAYER IS TO BE PROVIDED BELOW LEAN CONCRETE.
6. ALL CORNERS BETWEEN PCRSB & BASE SLAB SHALL BE ROUNDED TO FACILITATE CLEANING.
5. BEARING CAPACITY OF SUBGRADE SOIL OF 10T/SQM SHALL BE ENSURED.
4. LEAN CONCRETE MIX OF CEMENT AND AGGREGATES SHALL BE PROVIDED OVER TOP OF FORMATION.
3. REINFORCEMENT STEEL OF Fe 415 GRADE CONFORMING TO IS:1786-2008 SHALL BE USED. Fe 500 GRADE STEEL MAY ALSO BE USED, IF Fe 415 GRADE IS NOT AVAILABLE.
2. FOR RCC CONCRETE GRADE OF M40 CONFORMING TO IS: 456-2000 SHALL BE USED.
1. ALL DIMENSIONS ARE IN MILLIMETER.

NOTE

S.NO.	DATE	DESCRIPTIONS	INITIALS