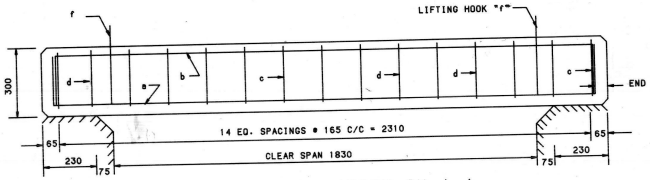
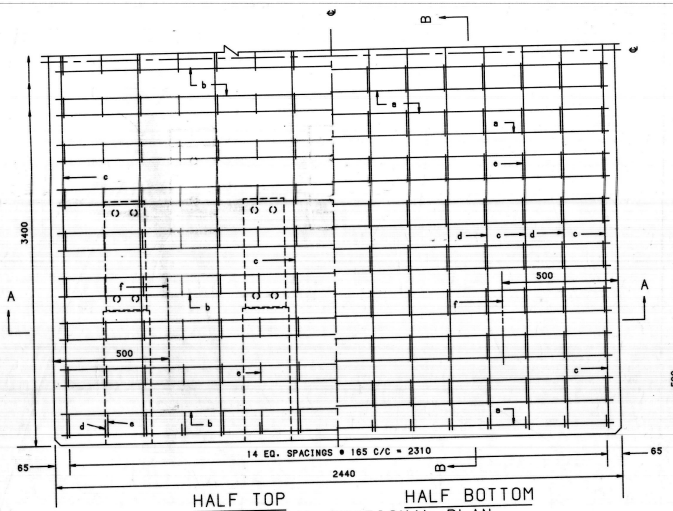
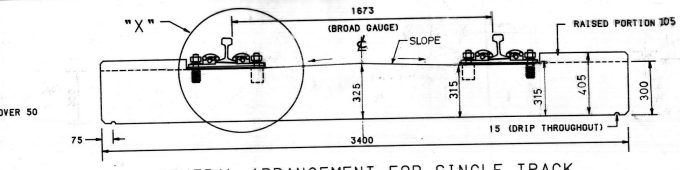


SECTIONAL ELEVATION ON A-A



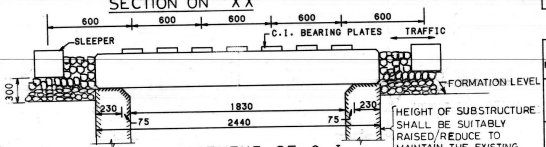
HALF TOP HALF BOTTOM

TYPICAL SECTIONAL PLAN

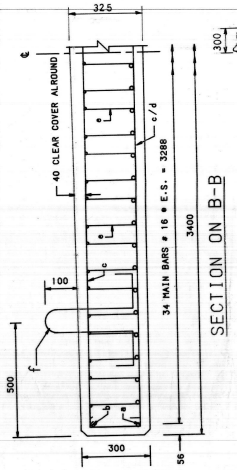


GENERAL ARRANGEMENT FOR SINGLE TRACK

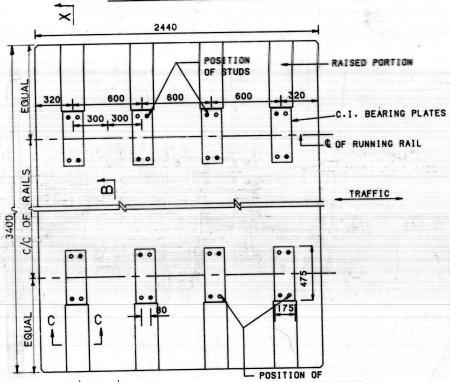
SECTION ON XX



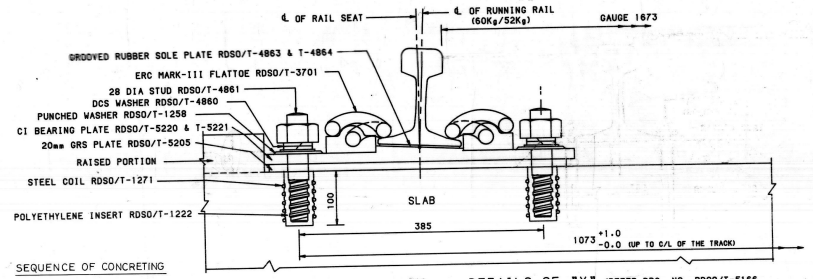
ARRANGEMENT OF C.I. BEARING PLATES



SECTION ON B-B

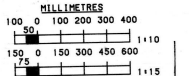


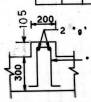
PLAN



DETAILS OF "X" (REFER DRG. NO. RDSO/T-5166 FOR FURTHER DETAILS)

(NOT TO SCALE)





SECTION AT C-C

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE SLAB IS SUITABLE FOR STRAIGHT TRACK ONLY.
3. WEIGHT OF REINFORCED CONCRETE IS ASSUMED TO BE 25 kN/cu m.
4. SHEAR REINFORCEMENT HAS BEEN PROVIDED AS PER THE PROVISIONS VIDE CL: 6.17.1 (A&C SLIP No.19) OF IRS CONCRETE BRIDGE CODE.
5. DECK WIDTH HAS BEEN KEPT WITH NO OVERHANG PERMITTED ON THE SUB-STRUCTURES.
6. VIBRATED CONTROLLED CONCRETE OF MINIMUM WORKS CUBE STRENGTH OF 25N/sq mm AT 28 DAYS SHALL BE USED.
7. MAXIMUM SIZE OF AGGREGATE SHOULD BE 20 mm.
8. REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED BARS CONFORMING TO IS:1786-1985.
9. SPACINGS OF REINFORCEMENT ARE WITH REFERENCE TO THE CENTRE LINE OF BARS.
10. STABILITY OF REINFORCEMENT DURING CONSTRUCTION SHALL BE ENSURED BY BINDING OF REINFORCEMENT AT SUITABLE LOCATIONS.
11. A LEVELLING LAYER OF CEMENT AND CAST IRON BORINGS (1:1 PROPORTION) PASTE OF STIFF CONSISTENCY, SHOULD BE PROVIDED ON THE BEARING AREA BEFORE PLACING OF SLAB.
12. BEARING PRESSURE BELOW THE SLAB IS 280 kN/sq m.
13. ALL CORNERS OF SLAB SHOULD HAVE A CHAMFER OF 25 mm. ABUTMENT SHOULD HAVE A CHAMFER OF 75 mm.
14. DATE OF CASTING AND NAME OF CASTING DEPOT SHOULD BE ENGRAVED ON TOP OF SLAB.
15. THE LIFTING HOOKS SHALL BE CUT AFTER THE PLACEMENT OF THE SLAB AND SUITABLE WATER-PROOFING COATS SHALL BE APPLIED ON THE TOP SURFACE OF SLAB.
16. RUNNING RAIL FASTENINGS SHALL BE AS PER DRG. No. RDSO/T-5166.
17. TWO STUDS SHALL BE PROVIDED ON EACH CI BEARING PLATE. POLYETHYLENE PLUGS SHALL BE PROVIDED ON THE OTHER TWO HOLES OF THE PLATE AS SHOWN IN THE DRG.
18. POLYETHYLENE INSERTS SHALL BE EMBEDED IN THE SLAB, AT THE TIME OF CASTING, AS PER DRG.NO RDSO/T-5166.
19. IN THE EVENTUALITY OF FAILURE OF STUDS , THE POLYETHYLENE PLUGS SHALL BE REMOVED AND STUDS SHOULD BE PROVIDED.

SEQUENCE OF CONCRETING

1 BEFORE CONCRETING GRADUALLY RAISE THE DEPTH OF SLAB BY 25mm AT THE CENTRE LINE ACROSS SPAN AS COMPARED TO DEPTH AT THE ENDS AS SHOWN IN THE DRAWING.
2 LOCATIONS ADJACENT TO BEARING PLATE SHALL BE RAISED AS SHOWN IN THE DRAWING.
3 SURFACE BELOW THE CI BEARING PLATE SHALL BE MADE FLAT BY RAISING THE LEVEL BELOW THE BEARING PLATES AS SHOWN IN THE DRAWING.

QUANTITY SCHEDULE FOR EACH UNIT

DESCRIPTION	QUANTITY
WEIGHT (kN)	62.220
CUBICAL QUANTITY (cu m)	2.489
NET WEIGHT OF BARS # 16 (kg)	148.260
NET WEIGHT OF BARS # 12 (kg)	79.130
NET WEIGHT OF BARS # 8 (kg)	107.67
NET WEIGHT OF STEEL + 10% WASTAGE (kg)	368.57
NET WEIGHT OF STEEL + 10% WASTAGE (kN)	3.614

BAR BENDING SCHEDULE FOR EACH UNIT

BAR MARK	DIA OF BAR	LENGTH	TOTAL NOS. REQD.	BENDING SHAPE DIMENSIONS SHOWN ARE OVER OUTER EDGES (NOT TO SCALE)	WEIGHT PER # IN kg	TOTAL WEIGHT IN kg
a	16	2630	34	2340	1.58	141.28
b	12	2615	34	2308	0.89	79.13
c	8	7210	8	3320	0.39	22.50
d	8	3865	7	3320	0.39	10.55
e	8	10550	15	34 LEGS 3320	0.39	61.72
f	16	1105	4		1.58	6.98
g	8	650	16	515	0.39	4.06
—	—	—	—	—	—	—
h	8	945	24		0.39	8.84

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R D S O

PRECAST R C BALLASTLESS SLAB
SPAN 1.83m
MBG LOADING-1987
(CONCRETE GRADE M-25)

ADVANCE 9-3-99

BA - 10056

NOTE | SPECIFICATION: IS : 1786-1985 BRIDGE RULES IRS: CONCRETE BRIDGE CODE | SCALE | ALT | DESCRIPTION | DATE

CALCULATION REGISTER NO. 2882 PAGE. NO.	Tekn: CAD BY: SHUKLA	SCRUTINISED & CHECKED BY:	SCRUTINISED/RECOMENDED BY:	APPROVED BY:	FILE NO.: CBS/DCS	MODIFICATIONS, SCRUTINISED/RECOMENDED BY:	APPROVED BY.
DONE BY: K.C.JAIN	CHECKED BY: K.C. JAIN	ADE (B&S) CS-II: (S.K.SAXENA)	JDS (B&S) CB-I: (A.K.MITTAL)	DS (B&S)	NOTIFICATION NO.:	CDA/B&S/C ADE/B&S/CB II DDG/B&S/CB II	ED(B&S)

RDSO/B-16279 R2