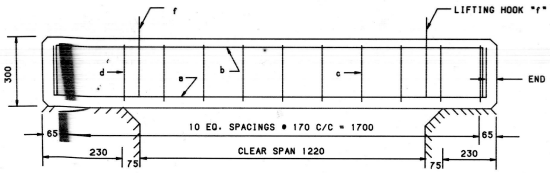
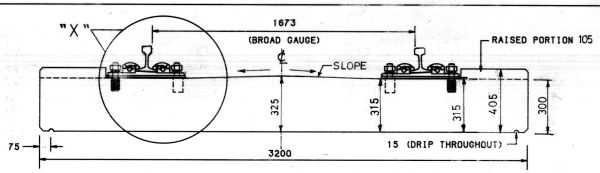
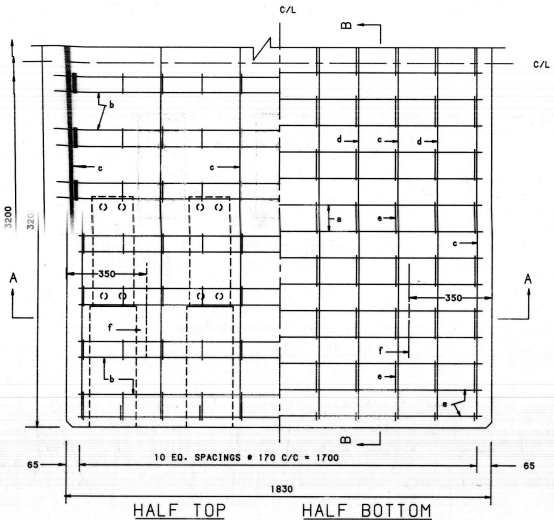


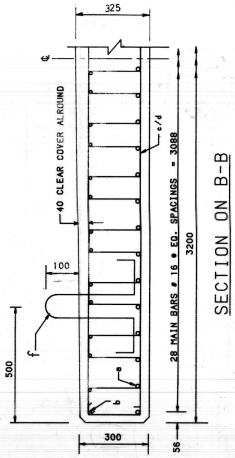
SECTIONAL ELEVATION ON A-A



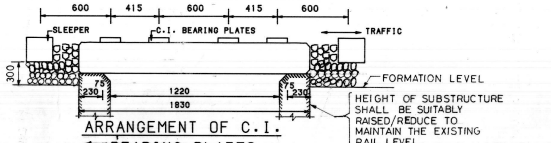
GENERAL ARRANGEMENT FOR SINGLE TRACK
SECTION ON XX



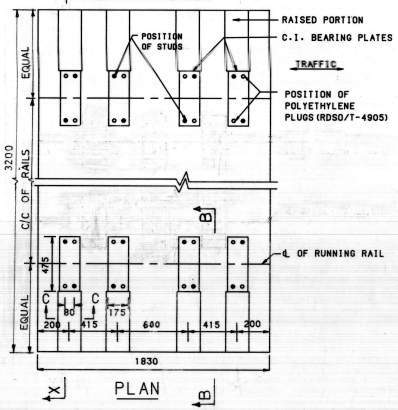
HALF TOP HALF BOTTOM
TYPICAL SECTIONAL PLAN



SECTION ON B-B



ARRANGEMENT OF C.I.
X BEARING PLATES X



PLAN

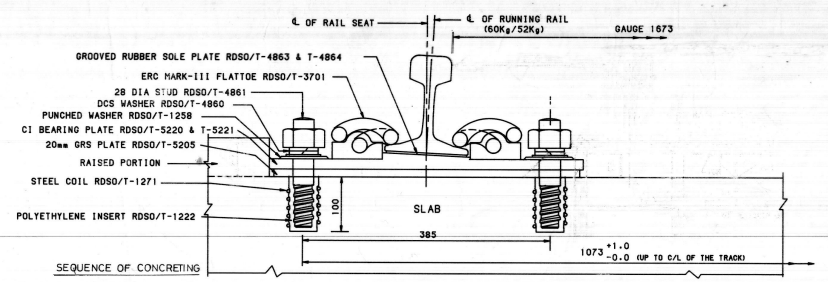
QUANTITY SCHEDULE FOR EACH UNIT

DESCRIPTION	QUANTITY
WEIGHT (kN)	43.92
CUBICAL QUANTITY (cu m)	1.757
NET WEIGHT OF BARS # 16 (kg)	96.79
NET WEIGHT OF BARS # 8 (kg)	93.08
NET WEIGHT OF STEEL + 10% WASTAGE (kg)	208.86
NET WEIGHT OF STEEL + 10% WASTAGE (kN)	2.048

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 m IN kg	TOTAL WEIGHT IN kg
a	16	2030	28	1730, 196	1.58	89.81
b	8	2030	28	1698, 188	0.39	22.17
c	8	6810	6	75, 3120, 230	0.39	15.94
d	8	3665	5	75, 3120, 230	0.39	7.15
e	8	8490	11	22, 98, 28 LEGS, 230, 75, 75, 145, 3120	0.39	36.42
f	16	1105	4	402, 338, 85, 150	1.58	6.98
—	—	—	—	— —	—	—
g	8	395	16	290	0.39	2.46
h	8	955	24	120, 280, 150, 150	0.39	8.94

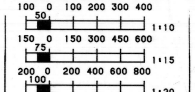
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE SLAB IS SUITABLE FOR STRAIGHT TRACK ONLY.
3. WEIGHT OF REINFORCED CONCRETE IS ASSUMED TO BE 25 kN/cu m.
4. SHEAR REINFORCEMENT HAS BEEN PROVIDED AS PER THE PROVISIONS VIDE CLAUSE 6.17.1 (A&C SLIP No.19) OF IRS CONCRETE BRIDGE CODE.
5. DECK WIDTH HAS BEEN KEPT 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 343 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.

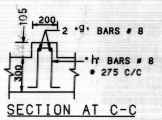


SEQUENCE OF CONCRETING

1. BEFORE CONCRETING, GRADUALLY RAISE THE DEPTH OF SLAB BY 25mm AT 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.

DETAILS OF "X" (NOT TO SCALE)
(REFER DRG. NO. RDSO/T-5166 FOR FURTHER DETAILS)





SECTION AT C-C

RDSO

PRECAST R C BALLASTLESS SLAB
SPAN 1.22m
MBG LOADING-1987
(CONCRETE GRADE M-25)

ADVANCE 9-3-99

BA - 10055

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

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

RDSO/B-16567R2