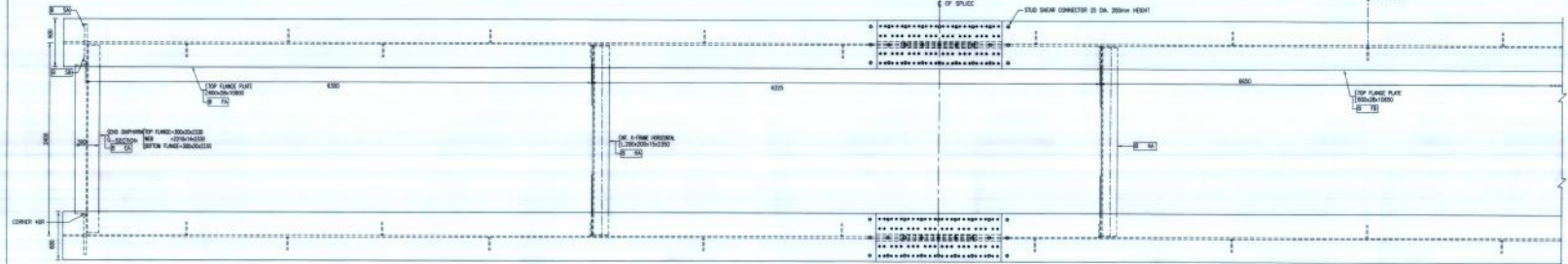
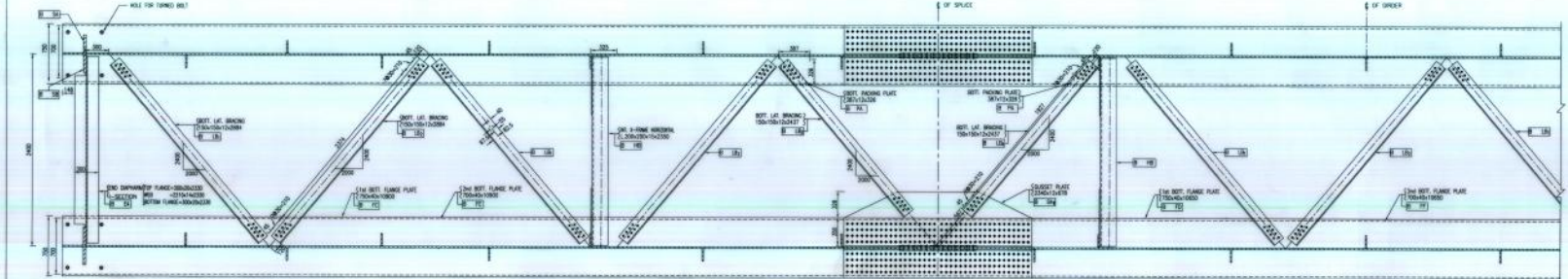


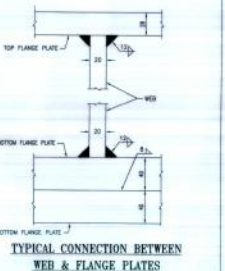
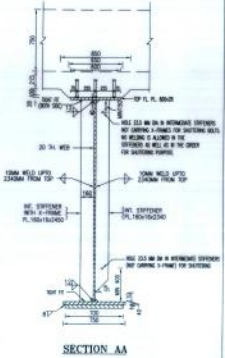
ELEVATION



TOP PLAN



BOTTOM SECTIONAL PLAN



SPAN	WEB PLATES	TOTAL
80.00	3.875	88.101

THE TOTAL WEIGHT OF SPAN INCLUDES WEIGHT OF RIVET HEADS AND WELD IN THE FOLLOWING LISTING APPROXIMATELY

MEMBER	ADULT WEIGHT (kg/meter)	ALLOWABLE WEIGHT (kg/meter)
TOP OF SLAB	1.08	1.75
TOP FLANGE PLATE	13.53	14.57
BOTTOM FLANGE PLATE (ON NET AREA)	14.43	16.07
WEB PLATE	6.38	10.15

DESCRIPTION	RIVETS (SHOP FIELD)
SHOP HEAD	40
C.S.K. ON WEB SIDE	4
C.S.K. ON WEB SIDE	4
C.S.K. ON BOTH SIDES	30
FLAT WELD (LINE WELD)	→
FLAT WELD (END WELD)	→
ANCHOR BOLT	→
TAPPED BOLT	→

- EXTRA HOLES MAY BE PROVIDED IN INTERMEDIATE STIFFENERS NOT CARRYING X-FRAMES FOR SHUTTERING PURPOSE WITH MINIMUM SPACING OF 100MM. NO GAS CUT HOLES MAY BE MADE.
- STUD SHEAR CONNECTORS HAVE BEEN SHOWN IN PLAN ONLY AT THE SPLICE LOCATIONS, IF REQUIRED.
- THE STUDS MAY BE SHIFTED SLIGHTLY TO ACCOMMODATE THE RIVETS FOR TOP LATERAL BRACING.
- MAX. DESIGN PRESSURE BELOW THE BEARING ASSEMBLY IS 48.35 kg/cm<sup>2</sup> MIN M-25 CONCRETE SHALL BE USED.
- STUD SHEAR CONNECTORS SHOULD BE WELDED TO TOP FLANGE COVER PLATE. SHEAR CONNECTORS SHALL BE WELDED TO TOP FLANGE/SPLICE TOP COVER PLATE USING AUTOMATIC STUD WELDING GUN.
- TRACK ON BRIDGE SHOULD BE PROVIDED WITH GUIDED RAILS.
- ALL INTERMEDIATE STIFFENERS SHALL BE WELDED TO THE WEB ONLY AND NOT WELDED TO FLANGES.
- THE INTERMEDIATE STIFFENERS SHALL BE MACHINE FIT WHEREVER THESE TOUCH THE FLANGES.
- END STIFFENERS SHALL BE CONNECTED TO WEB BY FILLET WELD ALL AROUND, INCLUDING FLANGES.
- ALL SHOP AND FIELD RIVET HOLES ARE 23.5 DIA FOR 22 DIA RIVETS EXCEPT WHERE OTHERWISE SHOWN.
- DESIGN IS SUITABLE FOR BALLAST CUSHION FROM 300 TO 400 mm DEPTH.
- ALL WELDS TO BE MADE BY USING APPROVED WELDING PROCEDURES AND BY QUALIFIED WELDERS.
- AUTOMATIC SUB-MERGED ARC WELDING SHOULD BE EMPLOYED FOR FILLET WELDS IN FLANGES TO WEB.
- OTHER WELDS ALSO TO BE MADE BY SUB-MERGED ARC WELDING PROCESS TO THE MAX. EXTENT POSSIBLE.
- CENTRIFUGAL FORCES FOR 4° CURVE AND SEISMIC FORCES FOR ZONE V HAVE BEEN CONSIDERED IN DESIGN.
- THIS DESIGN IS SUITABLE FOR UPTO 4° CURVED TRACK ONLY. THE DECK SLAB SHALL BE AS PER IRC NO. RDSO/B-11754/R (ESTIMATED ECCENTRICITY OF TRACK: 100MM, MAXIMUM ECCENTRICITY DUE TO CURVATURE: 100MM, TOTAL ECCENTRICITY: 200MM).
- THIS DESIGN IS SUITABLE FOR ANNUAL TRAFFIC OF 100 YEARS, 50 CMF OF 25 T LOADING AS PER NEW FATIGUE PROVISIONS.
- THE DESIGN IS IN ACCORDANCE WITH IRC BRIDGE RULES, STEEL BRIDGE CODE, WELDED BRIDGE CODE, CONCRETE BRIDGE CODE SHEAR CONNECTOR DESIGN CODE IS 3935, BS-5400 AND LR BRIDGE DESIGN CODE-772-2K.
- ALL DIMENSIONS ARE IN MILLIMETRES.

NOTE

STEEL FOR ALL MEMBERS EXCEPT STUDS	IS: 2062-2011 G40
LR BEARING DESIGN CODE	772-2K-08
SHEAR CONNECTOR DESIGN CODE	3935-08
EN CODE	EN 1090-1/2
SCHEME OF SYMBOLS FOR WELDING	913-88
METALS AND WELDING	1005-95
SUBMERGED ARC WELDING	1393-95
ELECTRODES	85-9-28
WIRE FLUX COMBINATION FOR SAW	85-9-28
FABRICATOR SPECIFICATION FOR SAW	85/91-2001, REVISED-2008

MILLIMETRES

10	20	40	60	80	100
1:1	1:1	1:1	1:1	1:1	1:1

SPECIFICATION & CODES	SCALE	ALT.	DESCRIPTION	DATE

SL. NO.	DESCRIPTION	REFERENCE
1.	DETAILS OF SPlice AND X-FRAME SHEAR CONNECTOR	RDSO/B-11754/R
2.	ASSEMBLY DRAWING	RDSO/B-11754/2R
3.	DETAILS OF X-FRAME & LIFTING BEAM	RDSO/B-11754/3R
4.	DETAILS OF BEARING	RDSO/B-11754/4R
5.	PART LIST & SHIPPING LIST	RDSO/B-11754/5R
6.	DETAILS OF RAIL SLAB FOR TRACK LIFTS AT CURVE	RDSO/B-11754/6R
7.	WELDING SEQUENCE	RDSO/B-11754/7R

THIS DRAWING IS THE PROPERTY OF RESEARCH DESIGNS & STANDARDS ORGANIZATION (INSTITUTE OF RAILWAYS) (LICENSIOR-28801120494) AND SHALL NOT BE REPRODUCED OR REPRODUCED IN PART OR WHOLE WITHOUT PRIOR CONSENT IN WRITING.

**R. D. S. O.**

**"25t LOADING-2000"**

**COMPOSITE GIRDER-WELDED TYPE**

**30.5m SPAN (NEW FATIGUE CRITERIA)**

**(UPTO 4° CURVE)**

**GENERAL ARRANGEMENT AND DETAILS OF MAIN GIRDER**

PROVISIONAL DATE : 22.10.2012

**RDSO/B-11754-R** (Sheet 1 of 08)

DESIGNED BY: R. D. S. O.	CHECKED BY: R. D. S. O.	APPROVED BY: R. D. S. O.	ISSUED FILE NO: RDSO/B-11754-R
DESIGNED BY: R. D. S. O.	CHECKED BY: R. D. S. O.	APPROVED BY: R. D. S. O.	ISSUED FILE NO: RDSO/B-11754-R