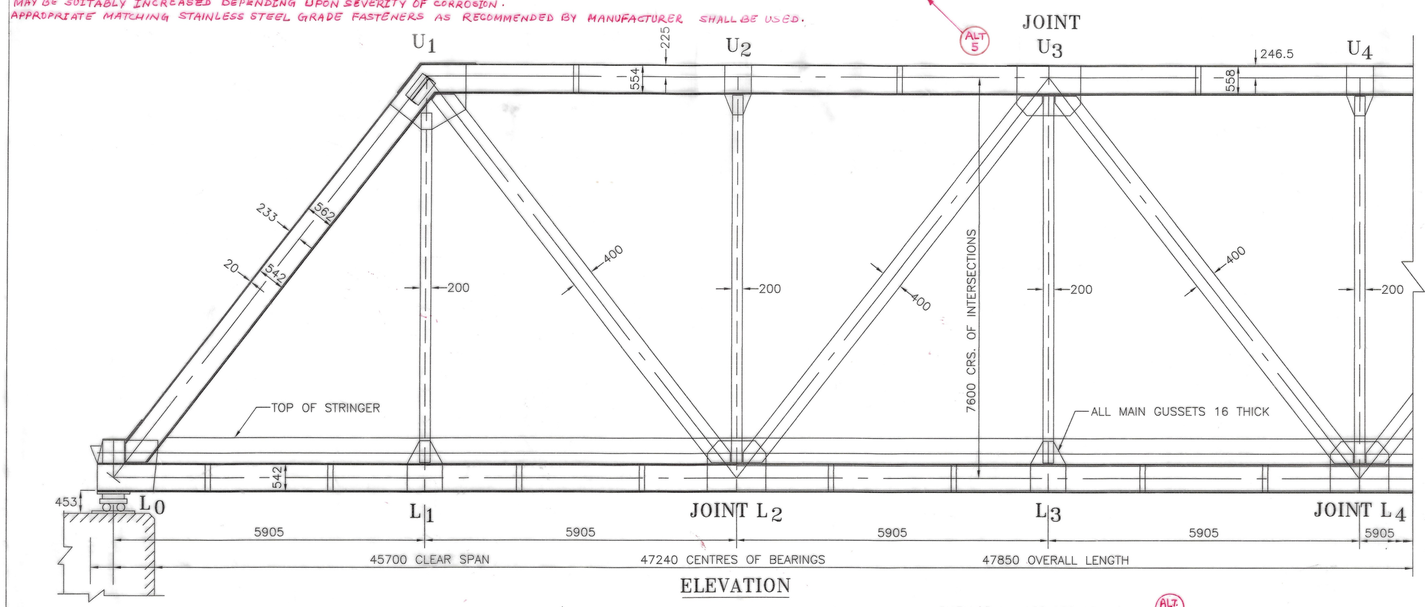
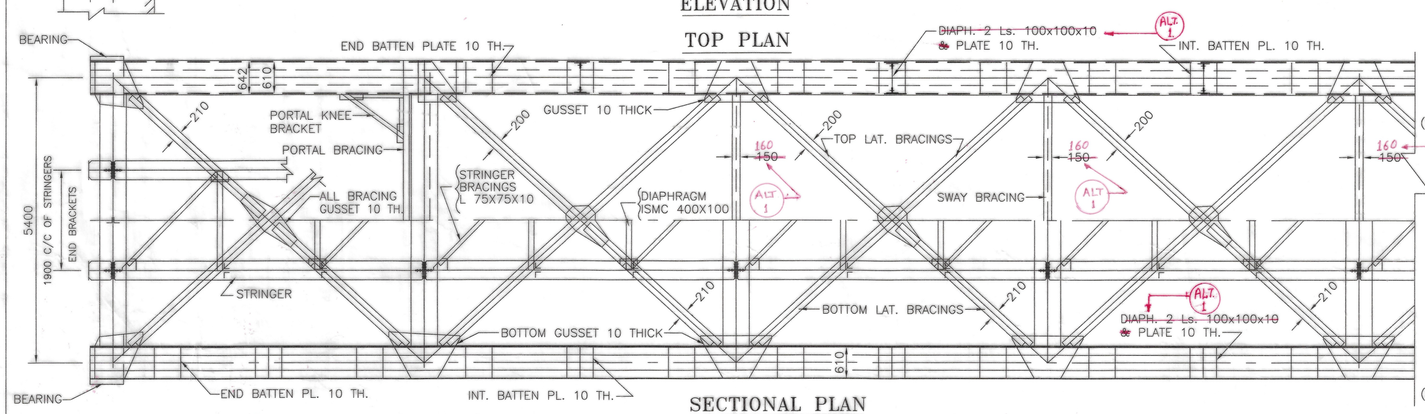
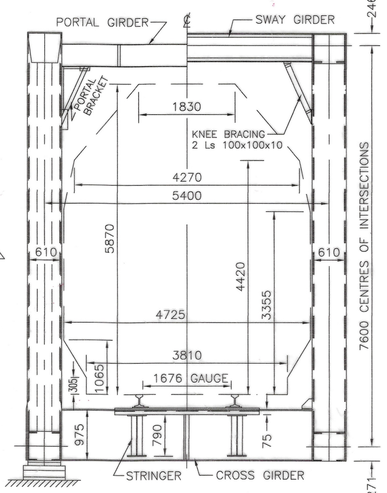
18. ANTI-SKID CHEQUERED PLATES FOR GANGWAY, TROLLY REFUGE, MAN REFUGE, SIDE PATHWAY ETC. SHALL BE CONFORMING TO LATEST IS 6911, ISS SYMBOL 40 S M, MINIMUM 6MM THICK (EXCLUDING BEAD HEIGHT) WITH FLAT BOTTOM AND TOP PATTERN CONFORMING TO IS 3502, 1A. FOR COASTAL/CORROSIVE AREAS, THICKNESS MAY BE SUITABLY INCREASED DEPENDING UPON SEVERITY OF CORROSION. APPROPRIATE MATCHING STAINLESS STEEL GRADE FASTENERS AS RECOMMENDED BY MANUFACTURER SHALL BE USED.



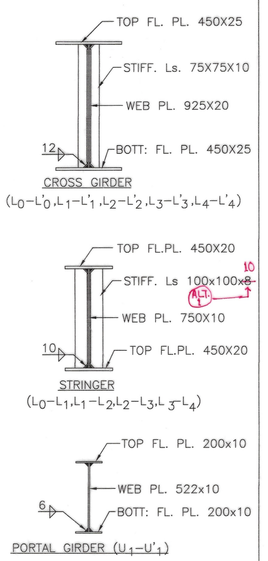
ELEVATION

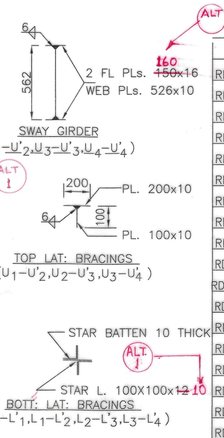


TOP PLAN

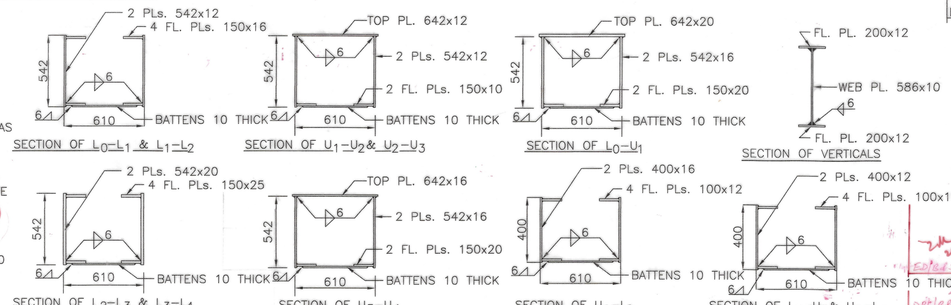


HALF END VIEW HALF SECTION





SECTIONAL PLAN



16. THIS DESIGN IS SUITABLE FOR MAXIMUM PERMISSIBLE SPEED AS GIVEN IN PARA 3.3.1 OF THE BRIDGE RULE.

19. GRADE OF STEEL SHALL BE E-250 (Fe 410) AS PER IS 2062:2011.

15. THIS DESIGN IS SUITABLE FOR SEISMIC ZONE – V.

14. FOR THIS SPAN REFER DRAWING NOs. RDSO/B–17181 TO 17181/19.

13. THE SURFACE PREPARARTION TIGHTENING PROCEDURE AND OTHER DETAILS FOR HSFG BOLTS SHALL BE AS PER DRG. NO RDSO/B–11760/R1 AND BS 111 (REVISION-7) AS AMENDED FROM TIME TO TIME.

12. ALL WELDS TO BE MADE BY APPROVED WELDERS USING APPROVED WELDING PROCEDURES.

11. AUTOMATIC SUB–MERGED ARC WELDING SHOULD BE EMPLOYED FOR BUTT & FILLET WELDS WHEREVER SHOWN.

10. ALL BUTT WELDS ARE TO BE EXAMINED RADIOGRAPHICALLY OR ANY EQUALLY EFFECTIVE NON DESTRUCTIVE TEST METHOD.

9. WELDABLE MATERIAL IS AS PER IS: 2062, QUALITY 'B' FULLY KILLED AND FULLY NORMALIZED ~~OTHER MATERIAL CAN BE AS PER IS: 2062, QUALITY 'A' SEMI KILLED MINIMUM.~~

8. THE DESIGN FOR MAIN TRUSS AND FLOOR SYSTEM IS SUITABLE FOR ANNUAL TRAFFIC OF 100 YEARS, 50 GMT OF 25 T LOADING AS PER REVISED FATIGUE PROVISIONS.

7. BENT PLATES SHOULD BE BENT HOT, FREE FROM CRACKS.

6. ALL EDGES TO BE MACHINED OR CONTROL TORCH FLAME CUT.

5. FOR MULTIPLE SPAN BRIDGE, ONE END SPAN WILL HAVE BRACKETS AT BOTH ENDS AND THE REMAINING WILL HAVE BRACKETS AT ONE END ONLY.

4. FOR SINGLE 45.7 m SPAN END BRACKETS ARE TO BE PROVIDED AT BOTH ENDS.

3. ALL FIELD HSFG BOLTS SHALL BE 22 DIA. IN 23.5 HOLES EXCEPT BRACINGS FOR WHICH FIELD RIVETS ARE 20 DIA. IN 21.5 DIA. HOLES. (PROPERTY CLASS 8.8)

2. ALL SHOP HSFG BOLTS SHALL BE 20 DIA. IN 21.5 DIA. HOLES.

1. ALL DIMENSIONS ARE IN MILLIMETRES.

17. FOR PROVISION OF PATHWAY REFER DRAWING NO CBS-0045.

IRS. M–28, M–39 FOR WELDING CONSUMABLES.
IRS WELDED BRIDGE CODE – 1972
FABRICATION & ERECTION B_1 –2001
STEEL BRIDGE CODE . . . . . –1962
METAL ARC WELDING IS: 9595 – 1980

MILLIMETRES
200 0 200 400 600 800 1000 1:20
500 0 500 1000 1500 2000 2500 1:50

LIST OF DRAWINGS

DRG. No.	DESCRIPTION
RDSO/B–17181/1	STRESS SHEET
RDSO/B–17181/2	CAMBER DIAGRAM
RDSO/B–17181/3	DETAILS OF BEARINGS
RDSO/B–17181/4/R	DETAILS OF BOTTOM CHORDS
RDSO/B–17181/5/R	DETAILS OF TOP CHORDS
RDSO/B–17181/6/R	DETAILS OF END RAKER AND PORTAL BRACINGS
RDSO/B–17181/7	DETAILS OF VERTICALS
RDSO/B–17181/8/R	DETAILS OF DIAGONALS
RDSO/B–17191/9	DETAILS OF BOTTOM CHORD JOINTS
RDSO/B–17191/10	DETAILS OF BOTTOM CHORD JOINTS
RDSO/B–17181/11	DETAILS OF TOP CHORD JOINTS
RDSO/B–17181/12	DETAILS OF TOP CHORD JOINTS
RDSO/B–17181/13	DETAILS OF CROSS GIRDERS
RDSO/B–17181/14	DETAILS OF STRINGERS
RDSO/B–17181/15	DETAILS OF SWAY BRACINGS
RDSO/B–17181/16	DETAILS OF BOTTOM LATERAL BRACINGS
RDSO/B–17181/17	DETAILS OF TOP LATERAL BRACINGS
RDSO/B–17181/18	ERECTION DRAWING
RDSO/B–17181/19	SHIPPING LIST

WEIGHT OF SPAN IN TONNES

SPAN	BEARINGS	TOTAL
~~135.896~~ 134.33	4.016	~~139.912~~ 138.346

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अ0 अ0 मा0 स0
R. D. S. O.

25टी भारण – 2008
25t LOADING – 2008
45.7 मी0 पाट
45.7 m SPAN
खुलापेटा गर्डर (वेल्डेड पारगामी प्रकार)
OPEN WEB GIRDER (WELDED THROUGH TYPE)
सामान्य विन्यास
GENERAL ARRANGEMENT

PROVISIONAL

RDSO/B–17181/R

ALT	DESCRIPTION	DATE
2	NOTE NO 16 ADDED AND NOTE NO 9 ALTERED.	16/2/16
3.	NOTE ADDED.	
1.	DIMENSIONS ALTERED	

ALT	DESCRIPTION	DATE
7.	NOTE NO. 19. ADDED.	
6.	NOTE NO. 13 ALTERED	
5.	NOTE NO 13 ADDED.	
4	NOTE ALTERED.	

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