

FABRICATION SPECIFICATION	
SCHEME OF SYMBOLS FOR WELDING	IS:813-1986
MANUAL METAL ARC WELDING	IS:9595-1996/S:815-1999
BUTT WELD	IS:9595-1996
SUB MERGED ARC WELDING	IS:4353-1995
ELECTRODES	IRS M-28/IS:814-1974
WIRE FLUX COMBINATION FOR SAK	IRS M-39
FABRICATION & ERECTION	IRS B-1

SPECIAL NOTE:

* IN ABSENCE OF DESIRED INFORMATION REGARDING WELDING IN IS AND IRS CODES RELEVANT AWS SPECIFICATION SHOULD BE REFERRED.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS ARE IN METRE UNLESS MENTIONED OTHERWISE.
2. THIS DRG. SHOULD NOT BE SCALED, ONLY WRITTEN DIMENSIONS SHOULD BE FOLLOWED.
3. ALL INDIVIDUAL MEMBER COMPONENTS ARE BUILT-UP WITH WELDED CONSTRUCTION.
4. ALL HOLES FOR BOLTS SHALL BE 23mm DIA FOR 22mm DIA AND 21.5mm DIA FOR 20mm DIA HSFG BOLTS OF PROPERTY CLASS 10.9 CONFORMING TO IS: 81-2511, IS: 4002-1992 & IS: 3757-1985 UNLESS NOTED OTHERWISE.
5. ALL MEMBERS SHALL BE OVEN DRIED (DIRECT TENSION REDUCING) TYPE CONFORMING TO IS: 81-40511.
6. MINIMUM BOLT TENSION SHALL BE 251 KN FOR M22 BOLTS AND 233 KN FOR M20 BOLTS OF PROPERTY CLASS 10.9 AS PER TABLE XII OF IRS:TEEL BRIDGE CODE.
7. BUTT WELDS SHALL BE OF CJP (COMPLETE JOINT PENETRATION) TYPE UNLESS NOTED OTHERWISE.
8. FOR CJP WELDING PROCESS WIRE SHALL CONFORM TO IRS M-46.
9. FILLET WELDS SHALL BE 8mm FILLET (MINIMUM LEG SIZE = 8mm, MINIMUM THROAT THICKNESS = 0.7s = 5.6mm) WELD UNLESS NOTED OTHERWISE.
10. ORDERS SHALL BE CAMEBDED.
11. BENT PLATES SHOULD BECANT FREE FROM CORNERS.
12. THICKNESS AND SHAPE OF GUSSET SHALL BE DECIDED DURING DETAILING.
13. BATTEN / LACING SHOWN WITH DASHED LINE.
14. ALL MEMBERS, GUSSET PLATES ARE TO BE FABRICATED FROM ACTUAL LAYOUT AT SHOP.
15. FOR SURFACE PREPARATION: PAINTING OF STEEL COMPONENTS REFER TECHNICAL SPECIFICATION (SURFACE AROUND BOLT HOLES SHALL BE BLAST CLEANED AND SPRAY METALLIZED WITH ALUMINUM (THICKNESS >100 μm), WITH NO OVER COATING).
16. FOR GENERAL ARRANGEMENT REFER DRG. NO. RVNL/SG/GCT/GA/001.

SCHEDULE OF SECTION FOR BOTTOM CHORDS [GRADE : E410 BO CONFORMING TO IS: 2062-2011]	
L0-L1, L1-L2 AND L10-L9, L9-L8	2 TOP PL. 225x20 2 WEB PL. 740x25 2 BOTTOM PL. 225x20 SPACED 800 B/B
L2-L3, L3-L4 AND L8-L7, L7-L6	2 TOP PL. 218x36 2 WEB PL. 740x32 2 BOTTOM PL. 218x36 SPACED 800 B/B
L4-L5 AND L6-L5	2 TOP PL. 210x40 2 WEB PL. 740x40 2 BOTTOM PL. 210x40 SPACED 800 B/B

SCHEDULE OF SECTION FOR TOP CHORDS [GRADE : E410 BO CONFORMING TO IS: 2062-2011]	
U1-U2, U2-U3 AND U8-U9, U8-U7	1 TOP PL. 850x25 2 WEB PL. 620x20 2 BOTTOM PL. 230x20 SPACED 800 B/B
U3-U4, U4-U5 AND U7-U8, U8-U6	1 TOP PL. 850x25 2 WEB PL. 620x25 2 BOTTOM PL. 225x25 SPACED 800 B/B
L0-U1 AND L10-U9	1 TOP PL. 850x25 2 WEB PL. 620x20 2 BOTTOM PL. 230x16 SPACED 800 B/B

SCHEDULE OF SECTION FOR DIAGONALS [GRADE : E410 BO CONFORMING TO IS: 2062-2011]	
U1-L2 AND U9-L8	2 TOP PL. 230x20 2 WEB PL. 480x20 2 BOTTOM PL. 230x20 SPACED 800 B/B
L2-U3, U3-L4 AND L8-U7, U7-L6	2 TOP PL. 192x20 2 WEB PL. 480x16 2 BOTTOM PL. 192x20 SPACED 800 B/B
L4-U5 AND L6-U5	2 TOP PL. 192x16 2 WEB PL. 480x16 2 BOTTOM PL. 192x16 SPACED 800 B/B

SCHEDULE OF SECTION FOR VERTICALS [GRADE : E410 BO CONFORMING TO IS: 2062-2011]	
L1-U1, L2-U2, L3-U3, L4-U4, L5-U5 AND L8-U8, L8-U8, L7-U7, L6-U6	2 F.LG. PL. 300x16 TH. WEB PL. 768x12 TH.
END CROSS ORDER AT LOCATION L0-L1 AND L10-L10	TOP F.LG. PL. 440x45 WEB PL. 1490x14 BOTTOM F.LG. PL. 440x45
INTERMEDIATE CROSS ORDER AT LOCATION L1-L1 TO L9-L9	TOP F.LG. PL. 440x45 WEB PL. 1490x14 BOTTOM F.LG. PL. 440x45

SCHEDULE OF SECTION FOR BOTTOM DECK SYSTEM [GRADE : E250 BO CONFORMING TO IS: 2062-2011]	
STRINGER L0-L1 TO L9-L10	TOP F.LG. PL. 440x22 WEB PL. 985x14 BOTTOM F.LG. PL. 440x22
STRINGER BRCC.	L 90x90x8
STRINGER TIE	ISM 400
L0-L1, L1-L2, L10-L9, L9-L8	TUBE
L2-L3, L3-L4, L4-L5, L7-L8, L8-L7	TUBE

SCHEDULE OF SECTION FOR TOP LATERAL BRACING SYSTEM [CIRCULAR HOLLOW SECTION (GRADE : YH 310 MPa) CONFORMING TO IS: 1161]	
ALL TOP LATERAL BRACINGS U1-U2 TO U8-U9	TUBE
ALL TOP LATERALS U1-U1 TO U9-U9	TUBE
WALKWAY RUNNER (SIZES)	ISM 250
WALKWAY BRACKET	ISM 250
WALKWAY STAY	2Ls. 75x75x8
DECK PLATE	8 O/P CHEQUERED PL.
HANDRAIL WITH WALKWAY	HANDRAIL POST - L 75x75x8 TOP RAIL - 40NB (M) PIPE (CONFORMING TO IS: 1161) MID RAIL - PLATE 50x8 TOE GUARD - PLATE 100x8

SCHEDULE OF SECTION FOR END RAKER [GRADE : E410 BO CONFORMING TO IS: 2062-2011]	
L0-U1 AND L10-U9	1 TOP PL. 850x25 2 WEB PL. 620x20 2 BOTTOM PL. 230x16 SPACED 800 B/B

SCHEDULE OF SECTION FOR SWAY BRACINGS, PORTAL LATERAL & PORTAL BRACINGS [CIRCULAR HOLLOW SECTION (GRADE : YH 310 MPa) CONFORMING TO IS: 1161]	
PORTAL LATERAL PORTAL BRACING AND ALL SWAY BRACINGS	TUBE

NORTH EASTERN RAILWAY

रेल विकास निगम लिमिटेड
Rail Vikas Nigam Limited
(A Government of India Enterprise)

PROPOSED RAIL BRIDGE ACROSS RIVER GANGA AT ALLAHABAD OF 24X76.20M FOR DOUBLE LINE (AT U/S OF EXISTING BRIDGE NO 111, 40X45.70M)

STRUCTURAL GENERAL ARRANGEMENT OF SUPERSTRUCTURE FOR TYPICAL 76.2M SPAN (78.8M C/C OF BEARING)

SCALE: 1:40, 30:20, 1:10, 3:2

DATE: 12.09.2020

DRWN: MS

CHECKED: SC

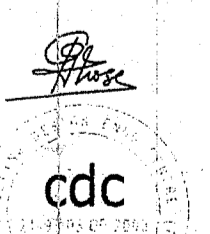
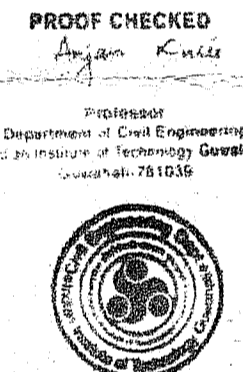
APPROVED: PG

DRAWING NUMBER: 2018-19/J-844/ST-01

REV: 0

CDC CONSULTING DESIGN ENGG. CENTRE (P) LTD.
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RVNL
CPM-3 BSB
(V.CHANDRA)
AGM/PROJECT
V.K. AGARWAL
Sr. DGM/CIVIL ENR.
(P.C. SHUKLA)

REV.	DATE	DESCRIPTION	BY	CHK.	APP.