



# भारत हेवी इलेक्ट्रिकल्स लिमिटेड

## Bharat Heavy Electricals Limited

Transmission Business Group  
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Plot No-7, Sector-142, Expressway Noida,  
Noida-201305 (Uttar Pradesh)  
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**AMENDMENT -01 to NIT No. 23030**

**Dated 14.07.2015**

**Ref: Tender Spec No: TBSM/ENNORE/CIVIL/ PKG-I/TENDER, Dated 19.06.2015**

With reference to above tender for "Execution and handing over of Civil Works of 400kV Switchyard at Ennore SEZ (Excluding building works) in Vayalur village, Ponneri Taluk, Tiruvallur Dist. of Tamil Nadu" following amendments may please be noted.

1. Underground earthing drawings attached with the tender have been revised. Revised earthing drawings are attached.
2. Due date & time for tender submission and technical bid opening are extended as below

**Tender submission date & time: 24.07.2015, 15:00 hrs.**

**Technical bid opening date & time: 24.07.2015, 15:30 hrs.**

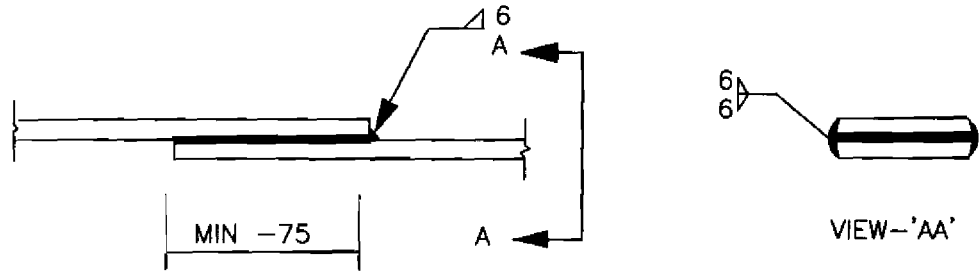
- All other terms & conditions of the tender specifications remain unchanged.
- Please enclose with your Technical Bid a copy of this amendment-01 duly signed by your authorized signatory and stamped.

  
14/7/15

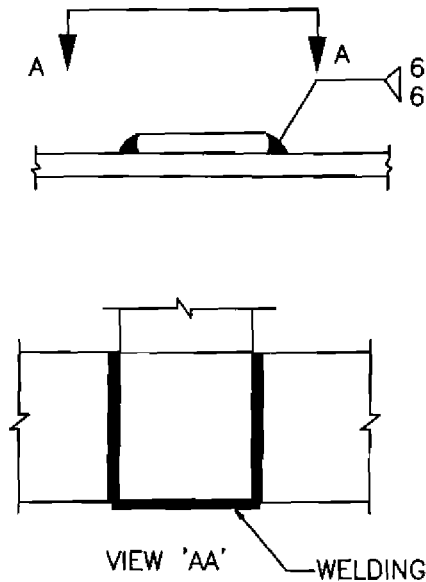
**Krishna Swaroop Singh  
(DGM/ TBSM)**

A. STRIP TO STRIP ( 50X6 OR 75X12 GS FLAT )

1. STRAIGHT LAP JOINT/RISER



2. CROSS LAP JOINT



NOTE :

1. ALL DIMENSIONS ARE IN MM
2. GALVANISED SURFACES WELDED SHALL BE TREATED WITH COLD GALVANISED PAINT (PREFERABLY ZINC CHROMATE PRIMER COATED WITH ZINC RICH PAINT)



EQUIPMENT & STRUCTURE EARTHING DETAILS  
WELDING DETAILS - I

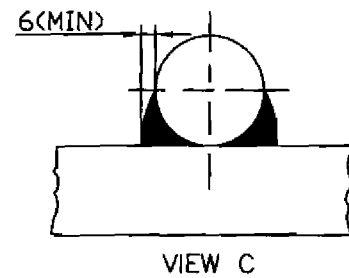
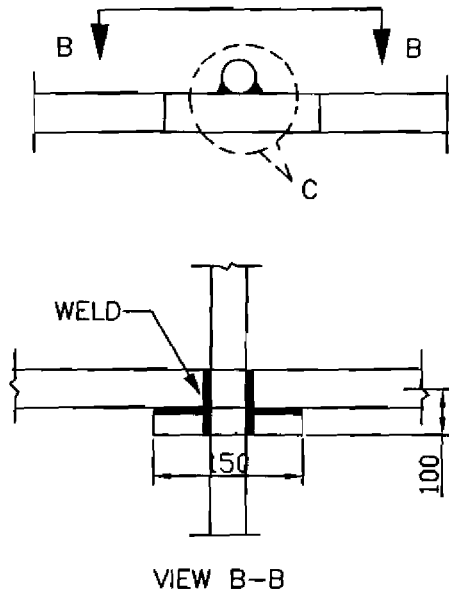
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DRG. No.

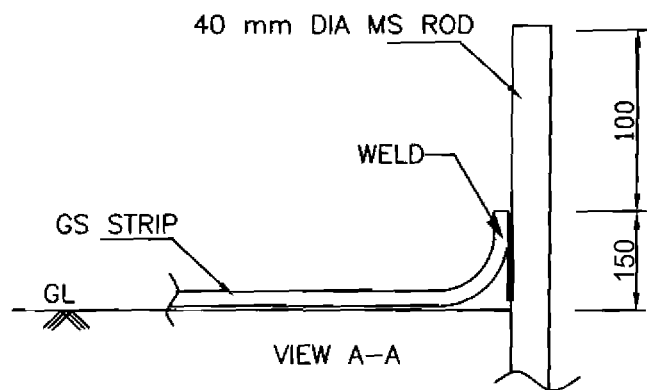
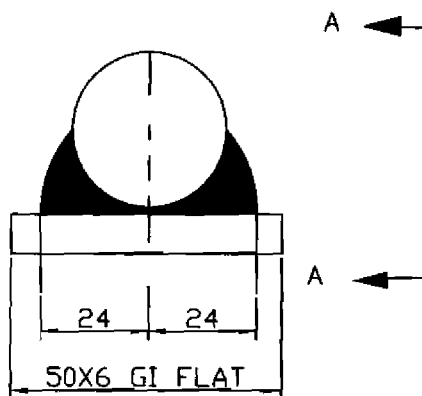
TB-STD-316-ROD WELDING

REV. 01

2. RIGHT ANGLED JOINT



3. ROD TO STRIP



NOTE :

1. ALL DIMENSIONS ARE IN MM
2. ALL WELDING CONNECTIONS SHALL BE MADE WITH ELECTRIC ARC WELDING .
3. FOR RUST PROTECTION THE WELDS SHOULD BE TREATED WITH RED LEAD COMPOUND AND AFTERWARDS THICKLY COATED WITH BITUMEN COMPOUND.



EQUIPMENT & STRUCTURE EARTHING DETAILS  
WELDING DETAILS - II

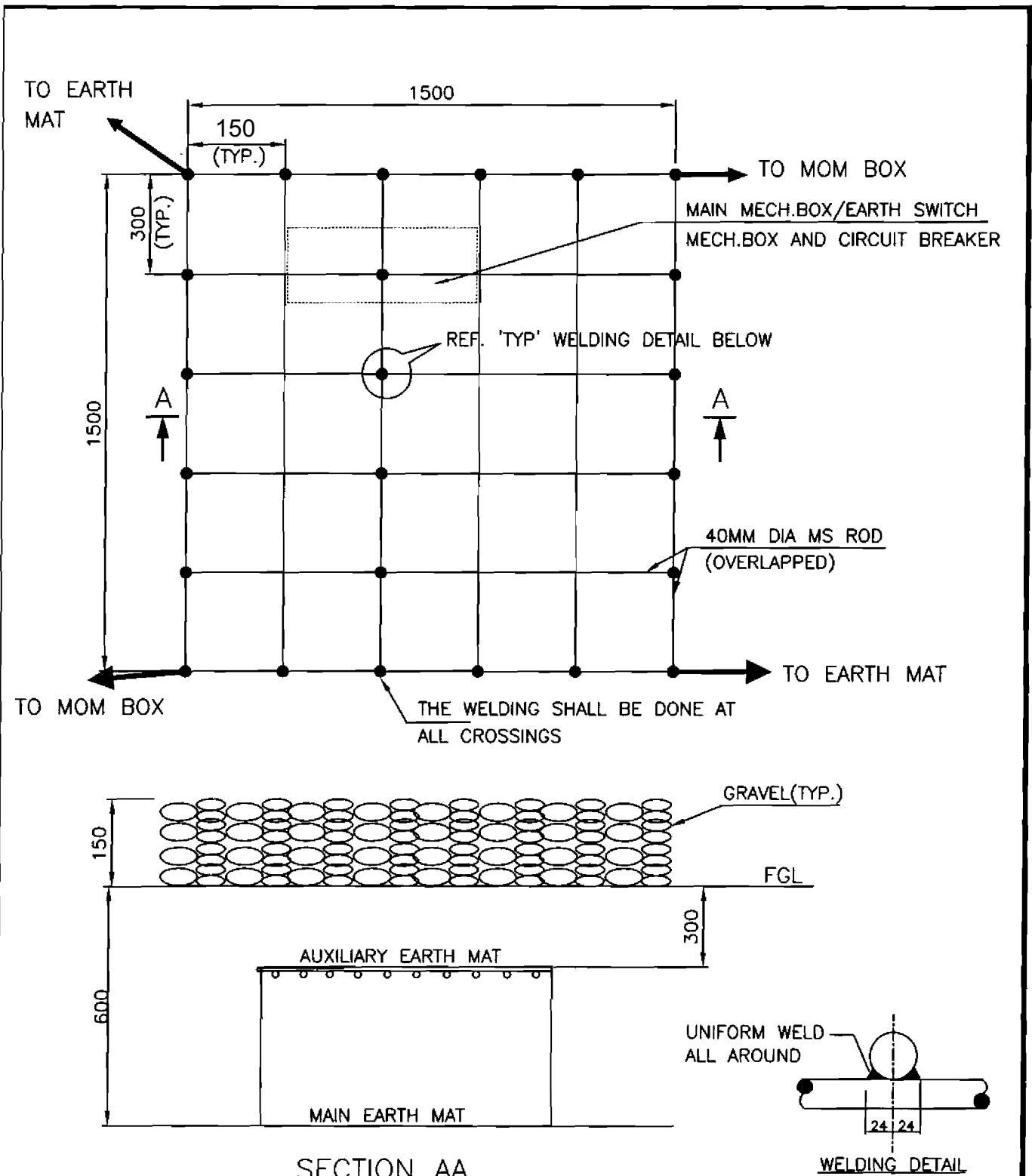
COMPUTERREF.NO.

DRG. No.

TB-STD-316-ROD WELDING

REV. 01

THE ROD SPACING IS SPECIFIC TO ENNORE PROJECT



NOTE:

AUX. EARTH MAT SHALL BE SO POSITIONED THAT THE FOOT OF THE OPERATOR ALWAYS LIE OVER THE AUX. EARTH MAT AREA WHILE ATTENDING / OPERATING THE MECH. BOX. THE CABLE TRENCH ROUTING SHALL BE PLANNED ACCORDINGLY.

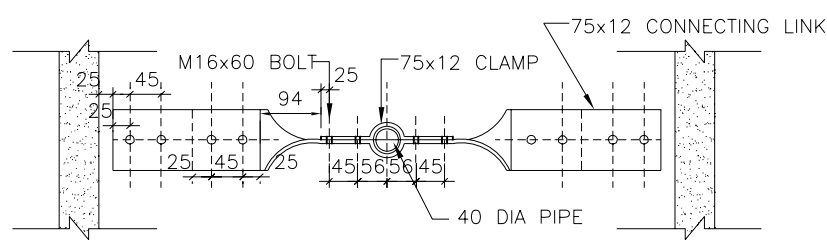
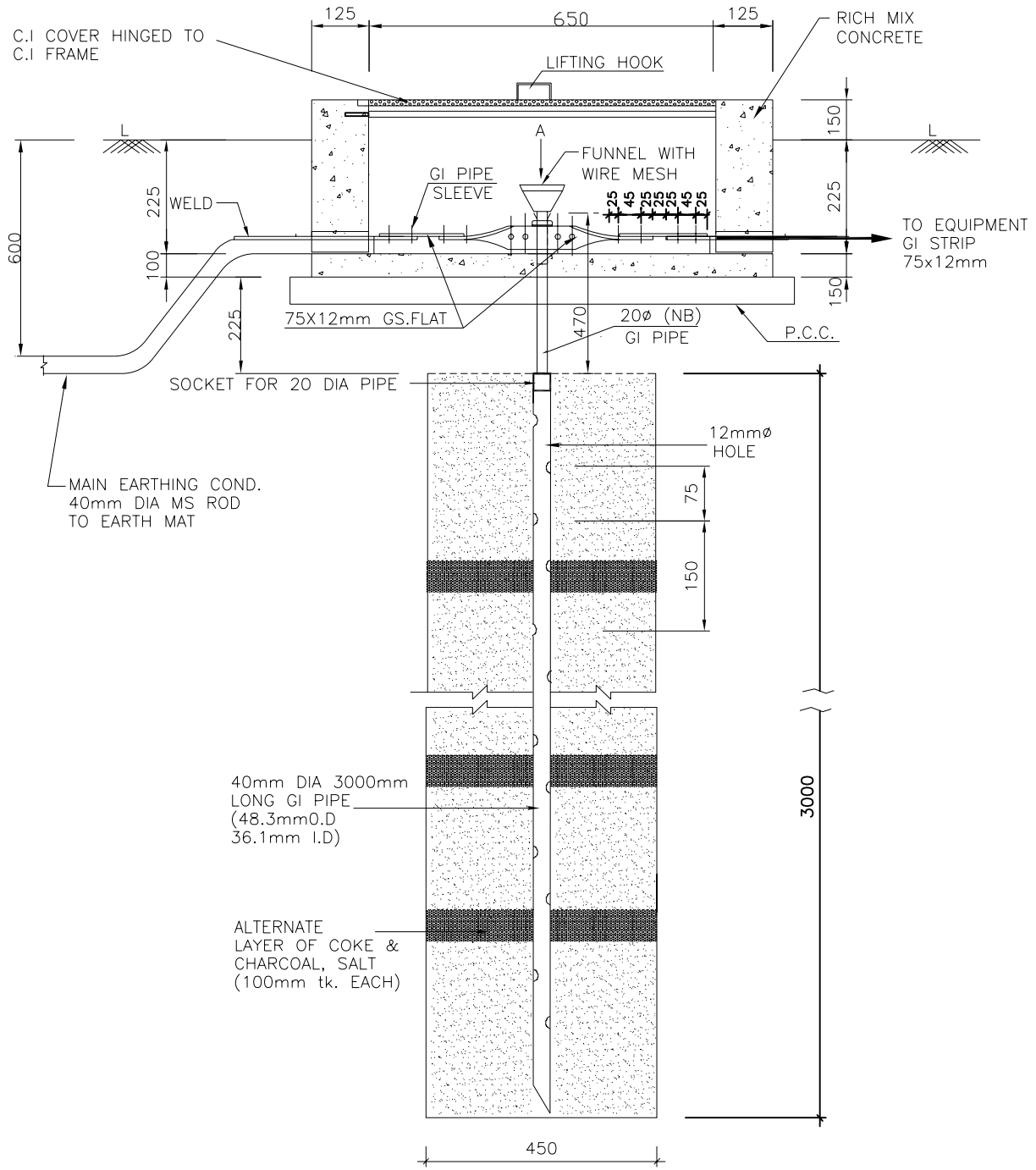


EQUIPMENT & STRUCTURE EARTHING DETAILS  
 AUXILIARY EARTH MAT FOR ISOLATOR MAIN MECH., E/S  
 MECH. BOX & CB (TYP.)

COMPU. DRG. REF.

Report No.

TB-STD-316-AUX. MAT



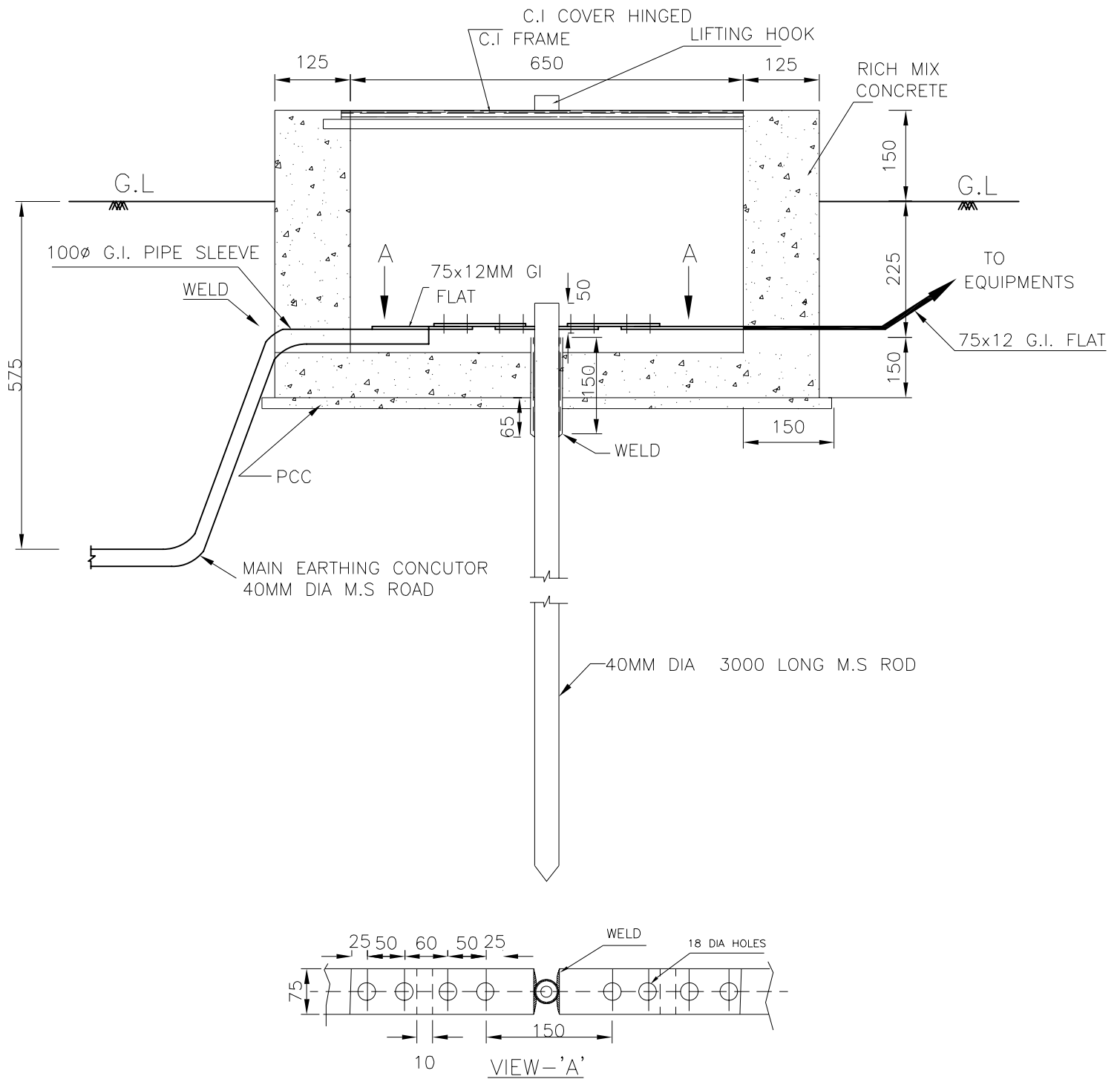
VIEW-A

NOTE:

1. ALL NUTS,BOLTS AND WASHERS, FUNNEL GI PIPE AND WIRE MESH SHALL BE GALVANISED AS PER SPECIFICATION.
2. FUNNEL SHALL BE SECURELY HELD TO THE PIPE.
3. TO BE USED FOR CONNECTING TO NEUTRAL OF POWER TRANSFORMER/REACTOR/NGR



EQUIPMENT EARTHING DETAILS  
 DETAILS OF PIPE EARTH ELECTRODE  
 IN TREATED EARTH PIT (ET)



NOTE:-

1. TO BE USED FOR CONNECTING DOWN CONDUCTOR OF LIGHTNING PROTECTION SYSTEM.



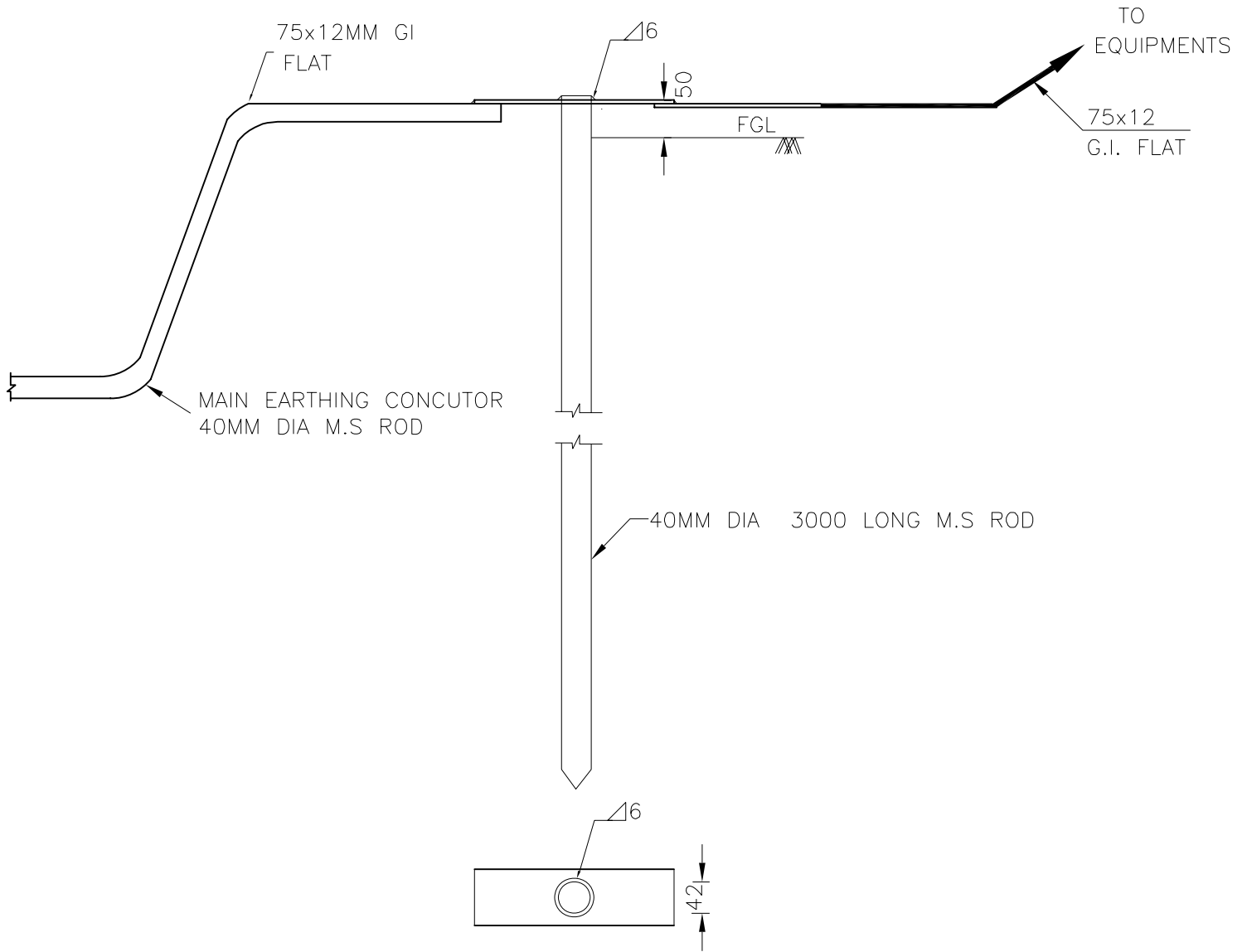
## EQUIPMENT EARTHING DETAILS

### ROD EARTH ELECTRODE WITH TEST LINK

COMPU. DRG. REF.

DRG. No.

TB-STD-316-ROD ELECTRODE WITH PIT



NOTE:—

1. TO BE USED FOR CONNECTING NEUTRAL OF CVT AND SURGE COUNTER OF LA



## EQUIPMENT EARTHING DETAILS

### ROD EARTH ELECTRODE WITHOUT TEST LINK

COMPU. DRG. REF.

DRG. No. TB-STD-316-ROD ELECTRODE W/O PIT