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AC EARTHING:-

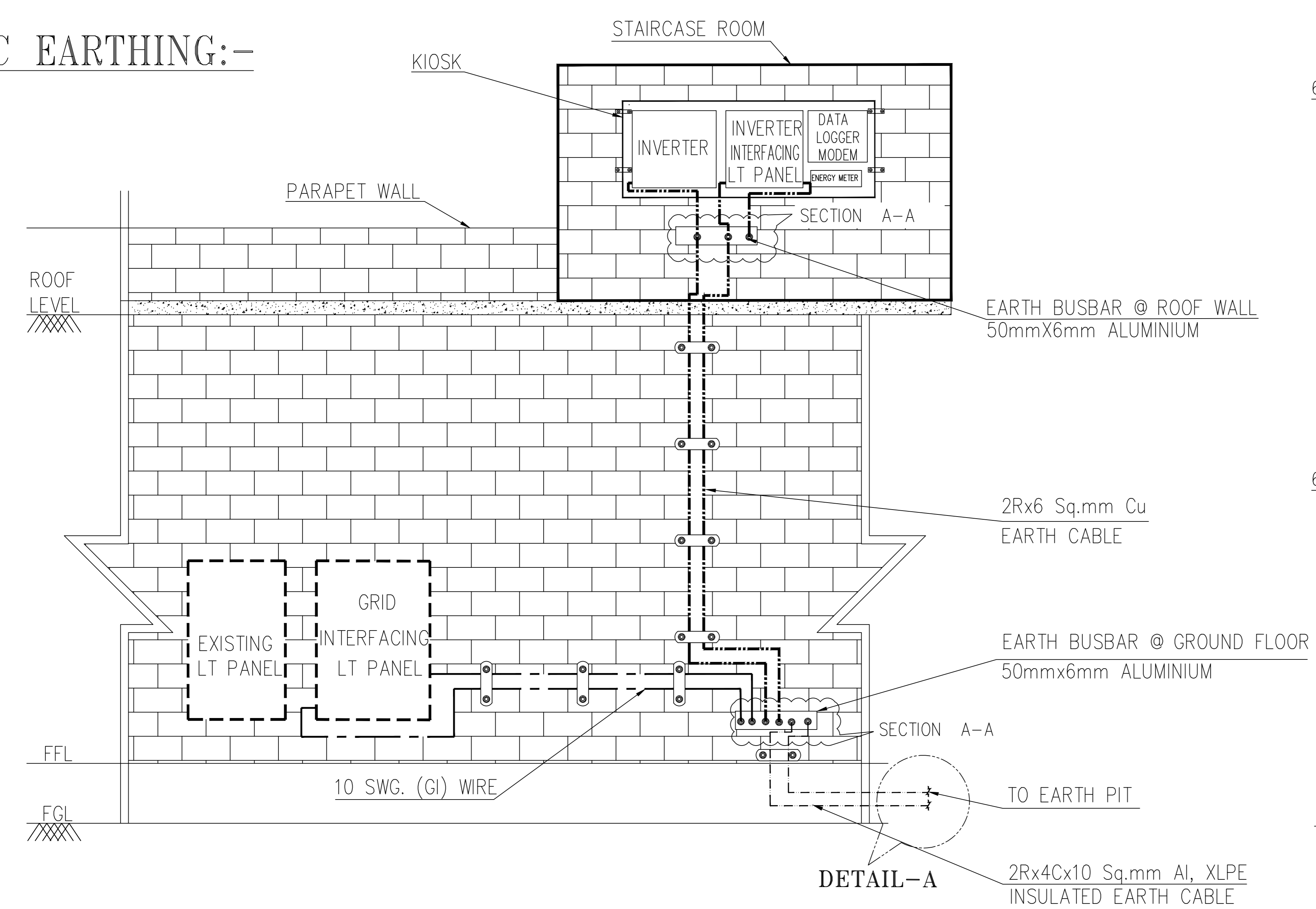
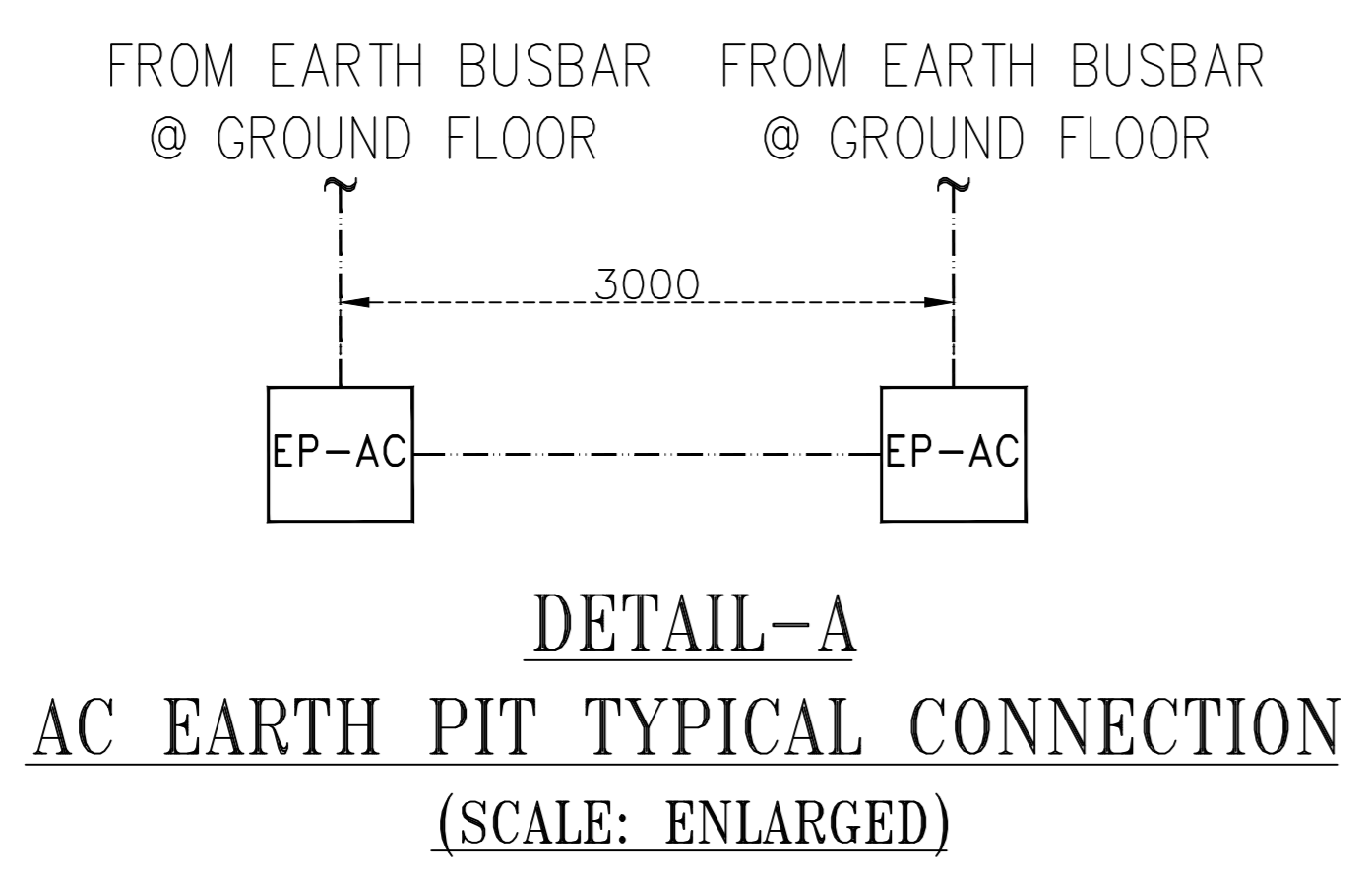


FIG.1: TYPICAL EARTHING ARRANGEMENT (THROUGH WALL) (SCALE: ENLARGED)



DETAIL-A AC EARTH PIT TYPICAL CONNECTION (SCALE: ENLARGED)

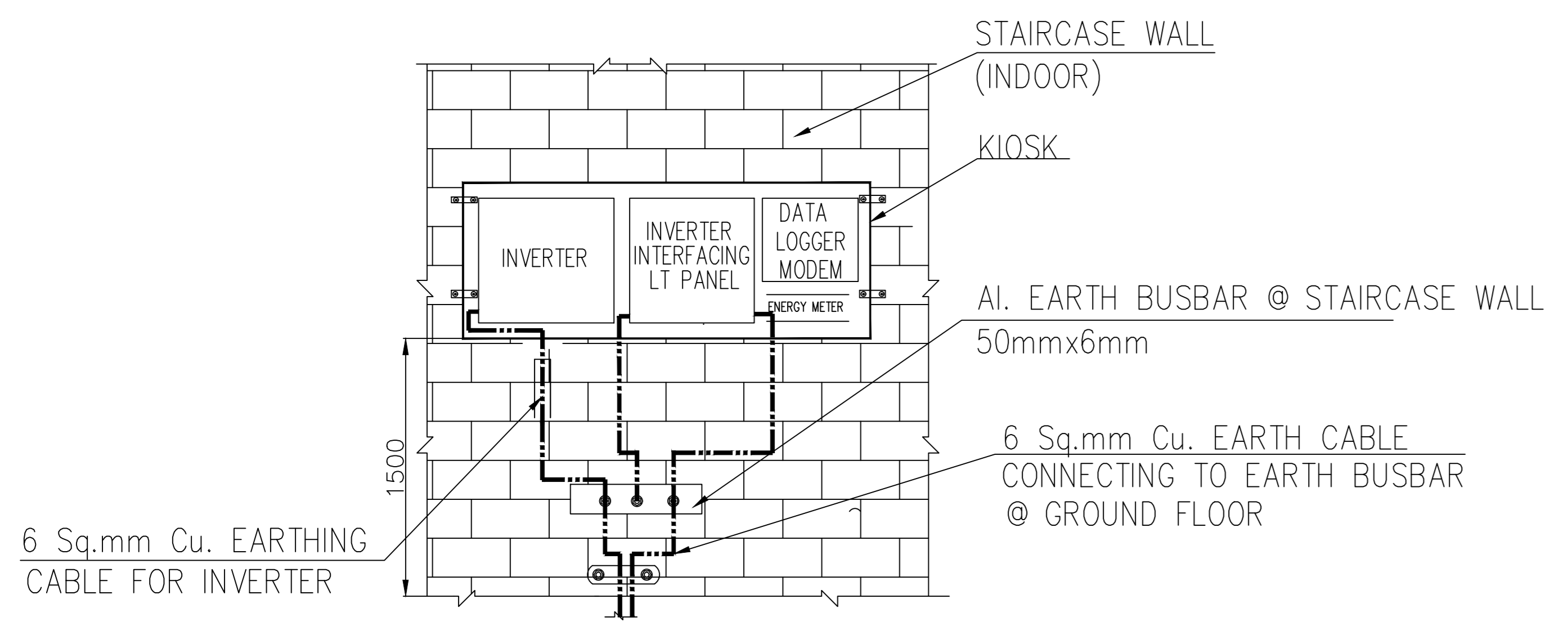
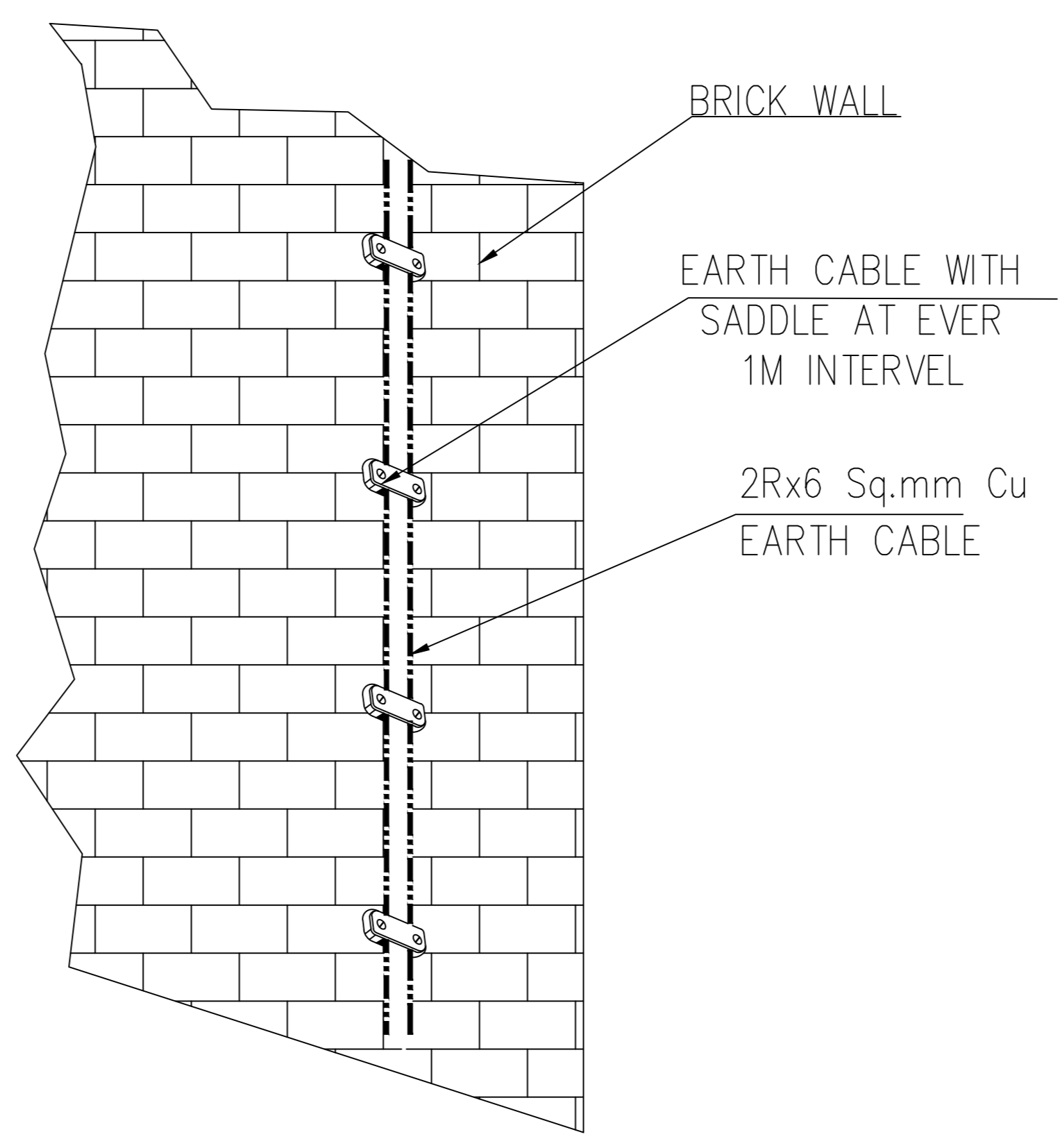
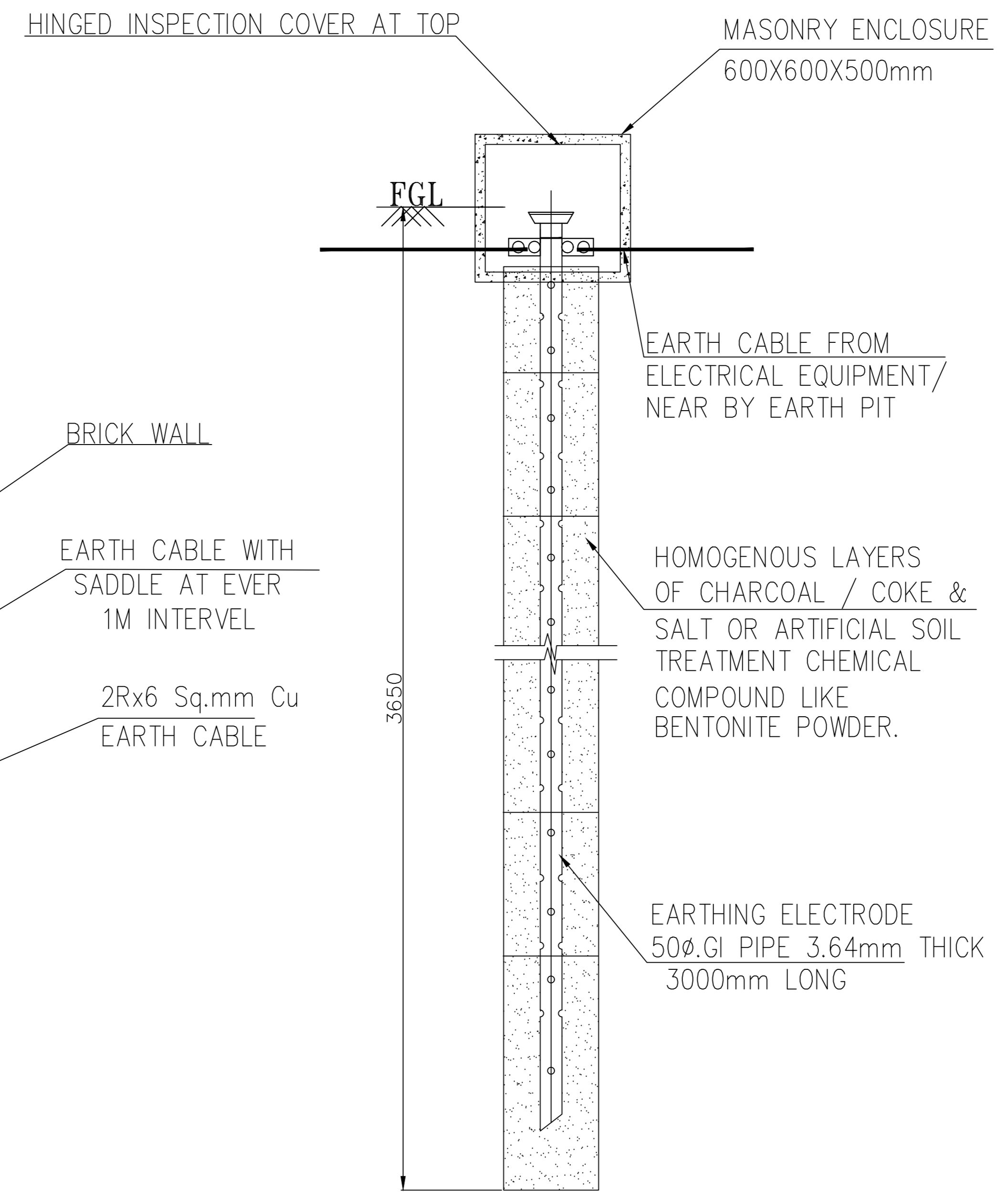


FIG-2 EARTHING CONNECTION FOR INVERTER & INVERTER INTERFACE PANEL (WALL MOUNTING) (SCALE: ENLARGED)



EARTH CABLE ALONG WITH WALL (TYP)



DETAILS OF GI PIPE ELECTRODE EARTHING (TYP)

SECTION A-A TYPICAL BUS BAR ARRANGEMENT IN ROOF WALL/GROUND FLOOR WALL

ABBREVIATIONS/LEGENDS:-

- STRING INVERTER
- AC EARTH PIT
- SADDLE
- 6 Sqmm Cu. EARTH CABLE
- 10 SWG GI WIRE
- 4CX10sq.mm XLPE INSULATED AL.CABLE
- ALUMINIUM EARTH BUSBAR
- IIP - INVERTER INTERFACING PANEL
- GIP - GRID INTERFACING PANEL

GENERAL NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
2. EARTHING SYSTEM TO BE PROVIDED AS PER IS-3043.
3. EARTH PIT SHALL BE PLACED WITH A MINIMUM DISTANCE OF 3M FROM BUILDING WALL.
4. A MINIMUM DISTANCE OF 3M TO BE MAINTAINED BETWEEN EARTH PITS.
5. ALUMINIUM EARTH BUS BAR AND CU CABLE/GI WIRE MUST BE INTERCONNECTED WITH BIMETALIC TERMINALS.
6. INVERTER, INVERTER INTERFACE PANEL AND GRID INTERFACING PANEL EARTH PIT SHALL BE PART OF AC EARTH PIT (2 Nos.).
7. 6 Sq.mm Cu. CABLE FROM INVERTER & INVERTER INTERFACING LT PANEL TO EARTH BUSBAR @ ROOF SHALL BE TAKEN VIA WALL AS SHOWN IN TYPICAL EARTHING ARRANGEMENT.(REFER FIG:2)
8. 2R x 6 sq.mm Cu. CABLE FROM EARTH BUSBAR AT ROOF WALL TO EARTH BUSBAR AT GROUND FLOOR SHALL BE TAKEN VIA WALL AS SHOWN FIG:1
9. 2R x 10 SWG GI WIRE FROM GRID INTERFACE PANEL TO EARTH BUSBAR AT GROUND FLOOR SHALL BE TAKEN VIA WALL AS SHOWN IN FIG:1
10. 2R x 4C x 10 sq.mm Al, XLPE INSULATED CABLE FROM EARTH BUSBAR AT GROUND FLOOR TO EARTH PIT SHALL BE TAKEN VIA WALL/GROUND AS SHOWN IN FIG:1.
11. INVERTER EARTHING CABLE 6 Sq.mm SHALL BE AS PER RFP.
12. BUSBAR:
 - 1 No : @ ROOF FOR INVERTER AND INVERTER INTERFACING PANEL
 - 1 No : @ GROUND FLOOR FOR GRID INTERFACING PANEL

A	FOR APPROVAL	DSK	FRC	RJR	RKJ
REV. No	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED

REVISIONS

L&T Construction
Power Transmission & Distribution IC
(Solar Projects)

CLIENT : WEST BENGAL RENEWABLE ENERGY DEVELOPMENT AGENCY CONSULTANT : -

PROJECT : GRID CONNECTED ROOFTOP SOLAR PV POWER PLANTS (10 & 20 KWp) AT VARIOUS LOCATIONS OF WEST BENGAL

SUPPLIER / CONTRACTOR : **L&T Construction**
Solar Projects

JOB No. : O19100-PTD-S				TITLE :		SCALE
NAME	SIGN	DATE			NTS	
DSGN	DSK	05.04.19	TYPICAL EARTHING SCHEME		PROJECTION	
DRWN	FRC	05.04.19				
CHKD	RJR	05.04.19				
APPD	RKJ	05.04.19				

DRG. No. **019100-PTD-S-EL-EA-0002** SIZE **A3** REV. **A**
SHEET 02 OF 02

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