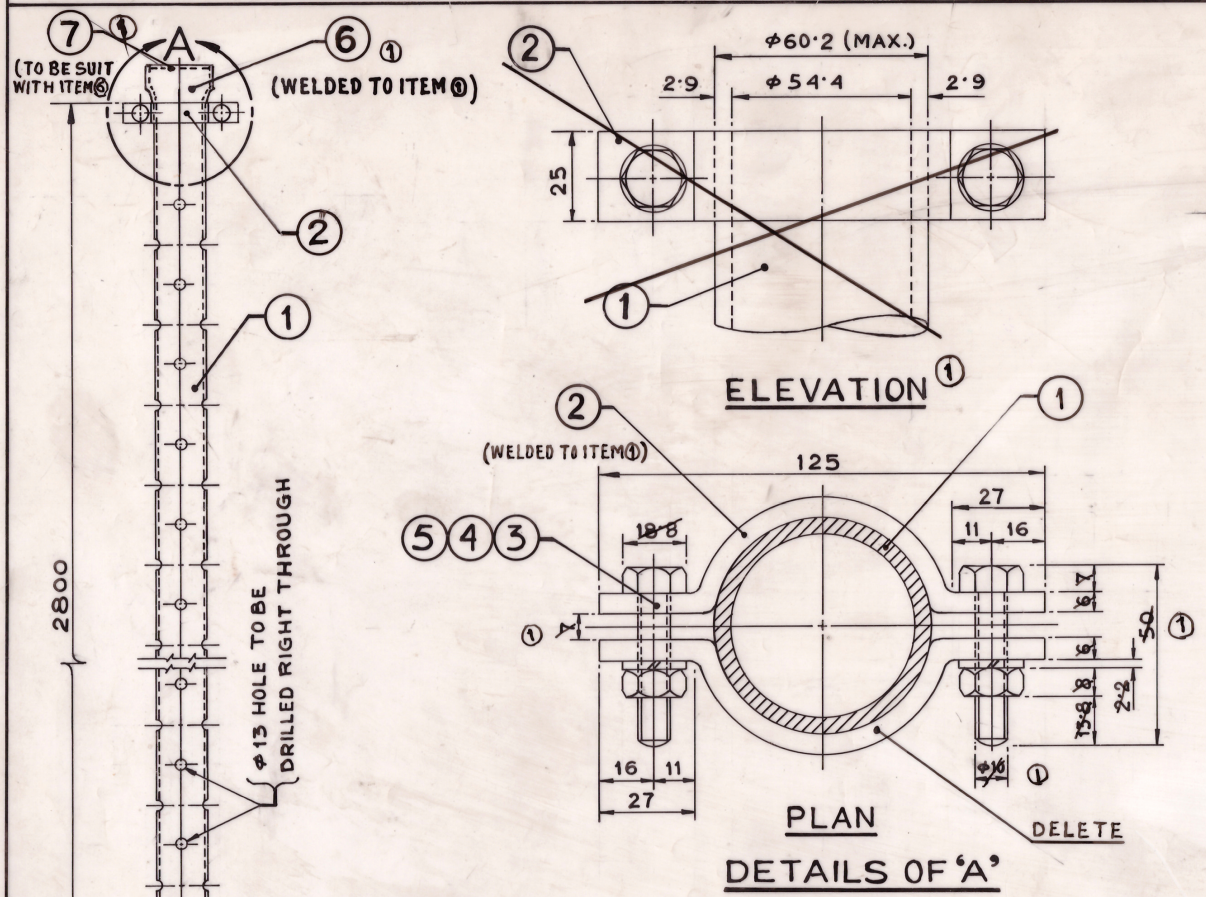
ALT.No.	DATE	AUTHO.	ALTERATIONS	INITIAL
1	26.11.2024		1. NOTE SN. 2 (ii),(iii),(iv),4,5,6,8 & ELEVATION OF DETAILS 'A' DELETED. 2. NOTE SN. 10,11,12 & ITEM No. 6 & 7 ADDED 3. QTY. OF ITEM No. 2 CHANGED. 4. MATL. OF ITEM No. 1 TO 6 CHANGED. 5. REMARKS OF ITEM No. 2 TO 5 CHANGED. 6. SOME DIMENSIONS OF DETAILS 'A' DELETED.	26.11.24 CEGE S.K.PAUL DRN



12. COMPLETE EARTH CONE ASSEMBLY SHALL BE HOT-DIP GALVANIZED AFTER WELDING/FABICATION AS PER IS:4736 (LATEST).

THIS DRG. SUPERSEDES DRG. No.: CEE/G/A4/P-105, ALT. 1

ITEM	DESCRIPTION	QTY.	MATL.	SPEC. No.	REMARKS
7	WIRE MESH	1	STEEL	SS304	
6	REDUCING SOCKET-80x65	1	STEEL	IS:1239(Pt.2)	GLVD.
5	SPRING WASHER M 10	2	~~M.S.~~ S.S.	IS:3063	~~GLVD.~~ S.S.
4	NUT HEX. M 10	2	-DO-	IS:1363	-DO-
3	BOLT HEX. HD. M10x50	2	-DO-	IS:1363	-DO-
2	CLAMP: W-25, THICK-6	1 ~~2~~	~~-DO-~~ STEEL	IS:2062	~~-DO-~~ GLVD.
1	PIPE (LIGHT & SEAMLESS)	1	-DO-	IS:1239(Pt.1)	GALVD.

① **NOTE :-**

1. ALL DIMENSIONS ARE IN m.m.
2. EARTH ELECTRODE PIPE AS PER IS:1239-Pt.1 (LATEST), TABLE-5
   i) NOMINAL BORE : 50 m.m.
   ~~ii) OUTER DIA. : 60·2 m.m. (MAX.), 59·6 m.m. (MIN.)~~
   ~~iii) THICKNESS : 2·9 m.m.~~
   ~~iv) MASS : 4·08 Kg/m. (PLAIN END)~~
3. THE PIPE SHOULD BE MADE OF SINGE PIECE WITHOUT ANY JOINT AND SHOULD BE KEPT FROM PAINT, ENAMEL AND GREASE.
4. ~~THE ELECTRODE SHOULD NOT BE INSTALLED IN PROXIMITY TO A METAL FENCE TO AVOIDE THE POSIBILITY OF BECOMING LIVE.~~
5. ~~THE ELECTRODE SHOULD NOT BE LOCATED CLOSER THAN 1·5 mt. FROM ANY BUILDING.~~
6. ~~ELECTRODE SHOULD BE EMBEDDED BELOW PERMANENT MOISTURE LEVEL AS FAR AS POSSIBLE.~~
7. THE RESISTACE OF THE ELECTRODE SHOULD NOT BE MORE THAN 5 OHMS.
8. ~~ELECTRODE PIPE AND ALL HARDWARES SHOULD BE GALVANIZED AS PER IS: 4736.~~
9. THE PERMISSIBLE TOLERANCE IN THE LENGTH OF THE FINISHED PRODUCT SHOULD LIMITED WITHIN ± 1%.
10. ITEM ② & ⑥ TO BE WELDED WITH ITEM ①
11. REDUCING SOCKET AS PER IS: 1239-Pt.2 (LATEST), TABLE-18

EARTH CONE

fCEE 17/5/06

REF.			SOUTH EASTERN RAILWAY
	DATE	NAME	ELECTRICAL DEPARTMENT
DR	17-04-06	S.K.PAUL	DRG. No. CEE/G/A3/P-150
TC			SCALE : 1:2 & 1:14
CK	17.05.06		ALT. 1

Signature Not Verified
Digitally signed by AMULYA KUMAR PRUSTY
Date: 2025.05.09 14:01:16 IST
Reason: IREPS-CRIS
Location: New Delhi