



**NOTES**

1. THIS DRAWING SHOWS SCHEMATIC CONNECTION OF EARTHING CABLES FOR A KIOSK AND A CHAMBER TYPE HVC SUBSTATION AND IS TO BE READ IN CONJUNCTION WITH THE NETWORK STANDARDS 114, 116, 117, 195 AND THE SUBSTATION EARTHING DESIGN.
2. THE NEUTRAL BAR AND NEUTRAL LINKS MUST BE MOUNTED SO THEY ARE INSULATED FROM ANY EARTHED METAL.
3. THE MEN CONNECTION IS INSTALLED ONLY WHERE THE SUBSTATION EARTHING DESIGN PERMITS THE CUSTOMER AUXILIARY LV SUPPLY EARTH TO BE CONNECTED TO THE HVC SUBSTATION EARTHING SYSTEM. THE MEN CONNECTION FOR A CHAMBER HVC IS MADE BY A CABLE CONNECTION BETWEEN THE EARTH AND NEUTRAL LINKS IN THE SERVICE BOARD AS SHOWN ON DRAWING 169394. THE MEN CONNECTION FOR A KIOSK HVC IS MADE BY A A MINIMUM 2 x 70mm<sup>2</sup> CABLES OR EQUIVALENT SIZE BUSBAR BETWEEN THE SUBSTATION EARTH AND NEUTRAL BARS AS SHOWN ON DRAWING 242598.
4. THE HV SWITCH EARTH BAR MAY BE ONE CONTINUOUS BAR OR A SEPARATE BAR FOR EACH END BOX. IF SEPARATE BARS ARE USED THEY ARE TO BE RING CONNECTED WITH A MINIMUM OF 70mm<sup>2</sup> CABLE TO THE SUBSTATION EARTH BAR. FOR KIOSKS WITH METAL ENCLOSURES, DOORS AND ACCESS HATCHES, THE ENCLOSURE, EACH DOOR AND EACH HATCH IS TO BE CONNECTED TO KIOSK FRAME WITH SEPARATE 70mm<sup>2</sup> FLEXIBLE CABLES.
5. THE CUSTOMER HV CABLE SCREENS CAN BE CONNECTED UNLESS OTHERWISE SPECIFIED BY THE SUBSTATION EARTHING DESIGN.

REFERENCE DRAWINGS	
TITLE	DRAWING No
INSTALLATION OF EARTH RODS IN CHAMBER SUBSTATIONS	25121
SERVICE BOARD FOR HVC CHAMBER SUBSTATIONS	169394
HVC SUBSTATIONS AC & DC PROTECTION SCHEMATICS AND PROTECTION PANEL	237229
SEGREGATED EARTHING FOR KIOSK SUBSTATIONS	173990
SERVICE BOARD, BATTERIES, CHARGER AND PROTECTION PANEL FOR HVC KIOSK	242598
HVC KIOSK PROTECTION PANEL WIRING	242599

**CONSTRUCTION**



SCALE	AS SHOWN
DESIGNED	
DRAWN	P.JARVIS
CHECKED	P.WOLOSZYN
APPROVED	M.GIBSON
DATE	30.4.19
PROJECT NUMBER	129021840
PROJTRAK NUMBER	

**STANDARD CONSTRUCTION  
HVC KIOSK AND CHAMBER SUBSTATIONS  
EARTHING SCHEMATIC**

SIZE	DRAWING No	SHEET	AMD
<b>A2</b>	<b>242607</b>	<b>1</b>	<b>0</b>

CAD DRAWING  
DO NOT MANUALLY AMEND  
AMENDMENTS