

SUBSTATION DOORS TO MEET SPECIFICATION WITH VENTILATION OPENINGS IN 2590x2200 OPENING. RIGHT LEAF TO OPEN FIRST

REMOVABLE GRP ROOF

GENERATOR CABLE ACCESS PLATE WITH A PADLOCK ON THE INSIDE (SIZE 225 x 225mm)

GRP ENCLOSURE NEEDS TO BE FROM A NORTHERN POWERGRID APPROVED SUPPLIER.

FRONT ELEVATION
SCALE 1:50

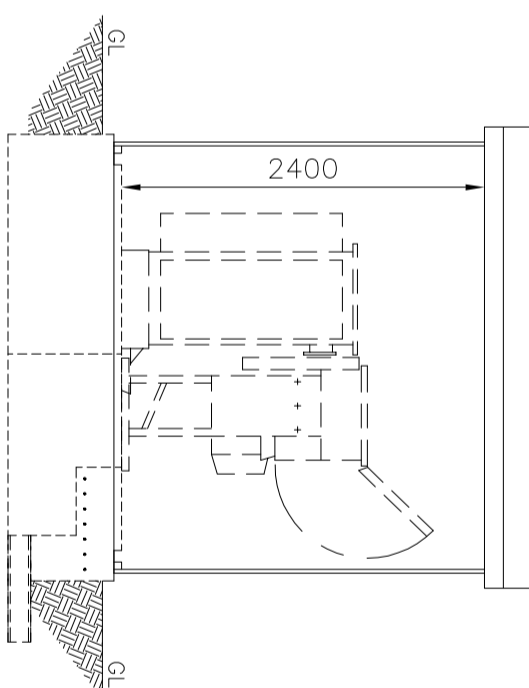
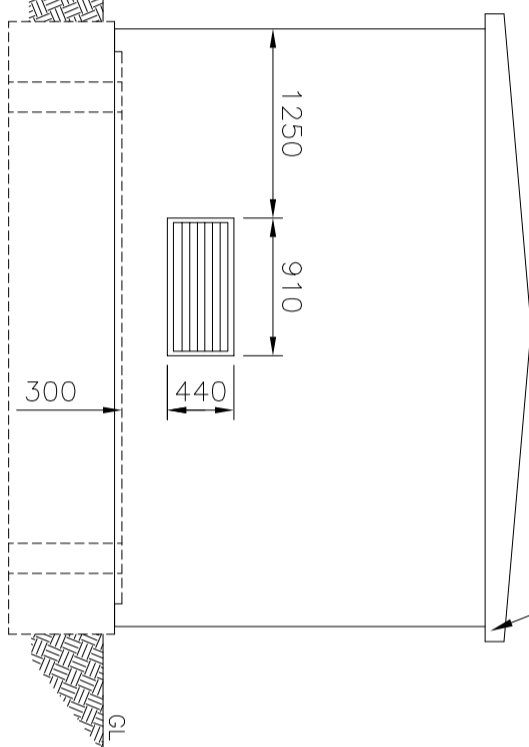
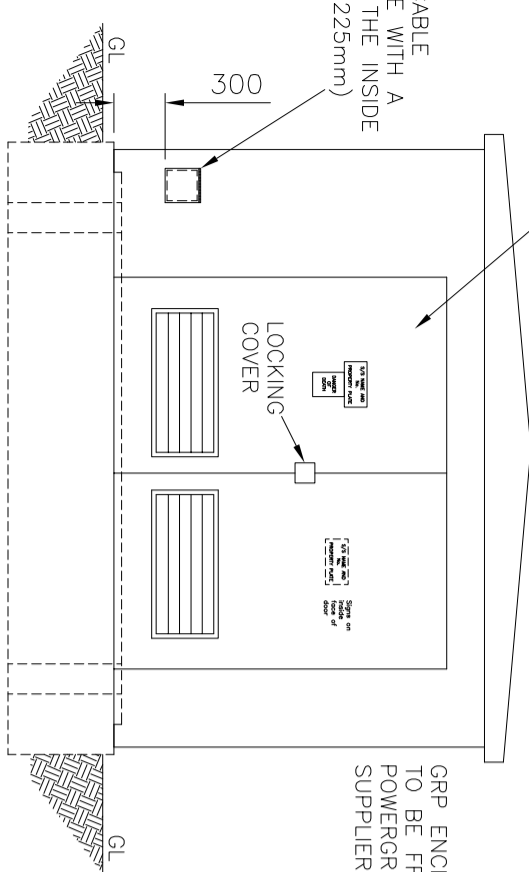
GROUND LEVEL TO FINISH 125mm BELOW FINISHED F.L.

REAR ELEVATION
SCALE 1:50

ROOF TO HAVE EXPLOSION RELIEF FITTINGS

EAVES VENTILATION TO BE PROVIDED TO 3 SIDES (REAR & SIDES)

SECTION B-B
SCALE 1:50



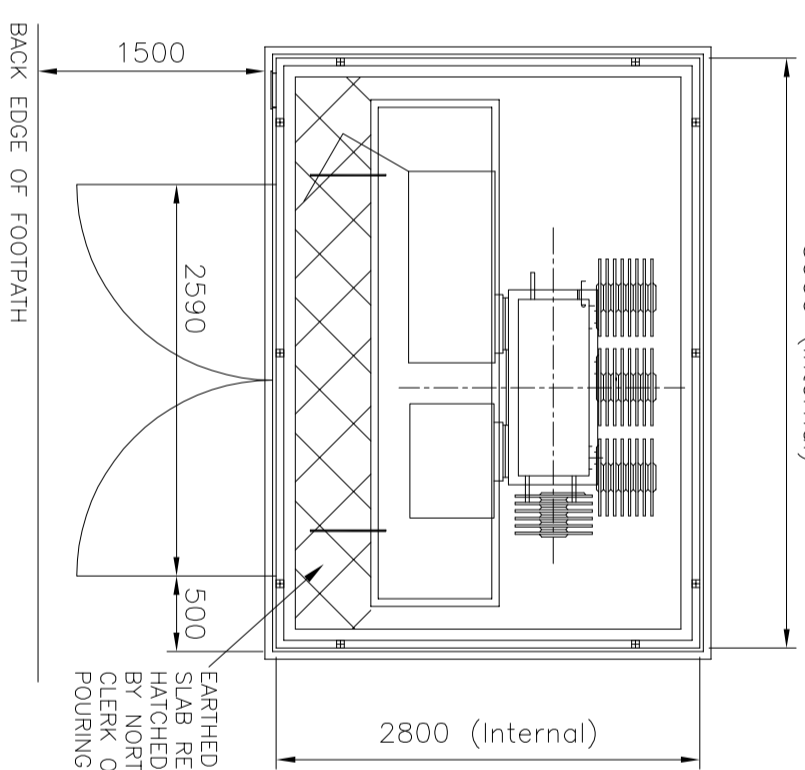
DETAILED SECTION A-A
SCALE 1:20

EARTH POINT CONNECTION
H10 1" BAR 600mm LONG
A=500mm, B=100mm
TO BE WIRE TIED IN FOUR PLACES TO THE UNDERSIDE OF THE TOP LAYER OF REINFORCEMENT MESH

MINIMUM 75mm BLINDING

EARTHED AREA OF FLOOR SLAB REINFORCEMENT SHOWN HATCHED TO BE INSPECTED BY NORTHERN POWERGRID CLERK OF WORKS PRIOR TO POURING CONCRETE.

PLAN OF EQUIPMENT & ENCLOSURE
SCALE 1:50



DETAILED SECTION B-B
SCALE 1:20

MINIMUM 75mm BLINDING

BUILD IN 1 No. 125mm I/D RIDGI-DUCTS EARTHING CABLES

50 x 200mm REBATE TO ACCEPT PREFABRICATED ENCLOSURES

50mm WIDE x 25mm DEEP REBATES TO RECEIVE PLYWOOD COVERS

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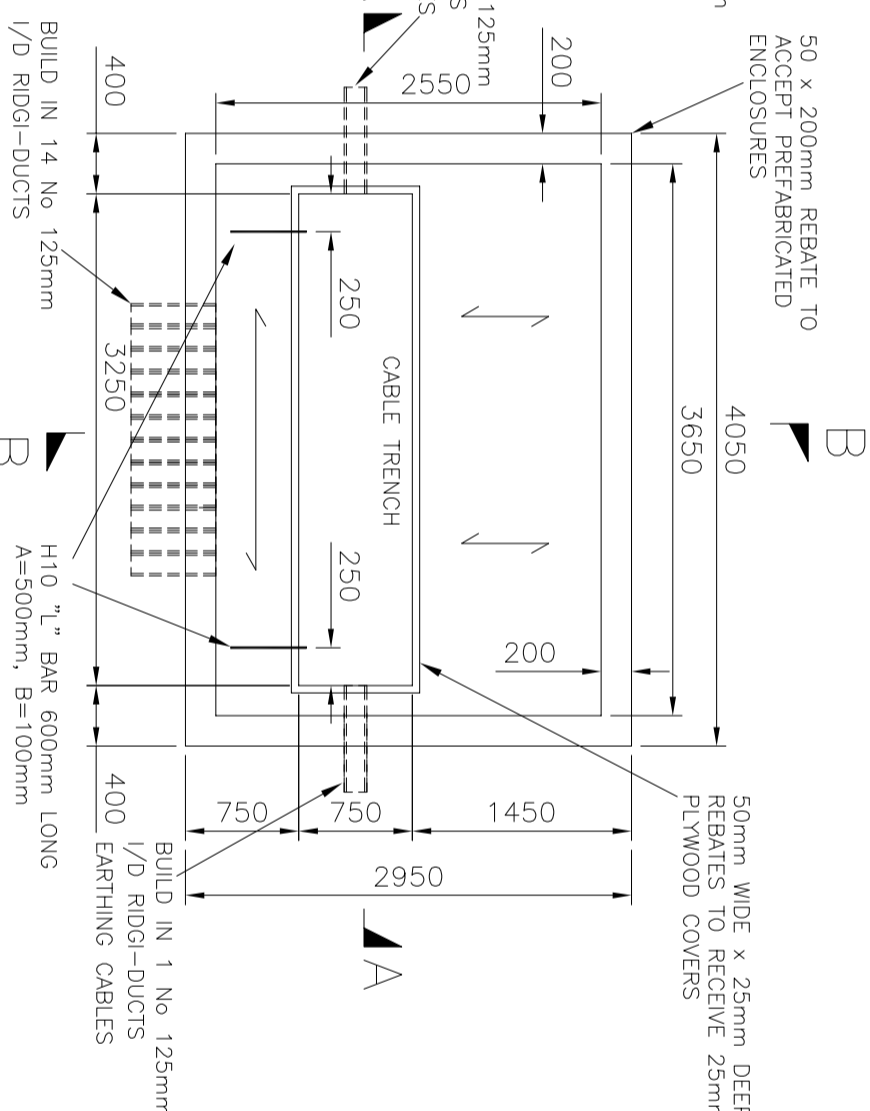
50mm WIDE x 25mm DEEP REBATES TO RECEIVE PLYWOOD COVERS

50 x 200mm REBATE TO ACCEPT PREFABRICATED ENCLOSURES

INTERNAL CUBIC CAPACITY - 26.2m³

ISOMETRIC VIEW OF FOUNDATION

FOUNDATION PLAN
SCALE 1:50



NOTES

FLOOR:

- Foundations shown are based on a maximum weight of transformer of 40kN and a minimum ground bearing pressure of 80kN/m²
- The foundations are to be adjusted to structural engineers instructions.
- Floor slab shall be designed to carry a minimum load of 7.5kN/m². Floor to be level, steel float finish concrete, and sealed with approved concrete sealer or concrete paint before equipment installation.
- Earthed area of floor slab reinforcement shown hatched (see PLAN OF EQUIPMENT & ENCLOSURE) to be inspected by Northern Powergrid clerk of works prior to pouring concrete.
- Floor to be cast to front face of door opening, providing solid threshold. External level to be 125mm below finished floor level, allow unrestricted access for gear, and have a level landing area.
- Trench covers to be 25mm exterior quality WBP ply, maximum width 1200mm, each cover to have 2 No. 35mm diameter finger holes, covers to be painted two coats silver gloss paint both sides and all edges
- External paving and site finishes shall be provided as agreed with Northern Powergrid representative on site. As a minimum this shall consist of paving to full width of substation doors x 1200mm deep, with paving linking nearest highway path

Care is to be taken to ensure that access to cable openings is not impaired.

No Gas, Sanitary, Water or other Services to run through or under the substation.

Substation doors to be set back a minimum of 1500mm from back edge of footpath. Any proposed reduction in this clearance to be approved by Northern Powergrid following submission of site specific risk assessment and operational method statement

REFERENCE DRAWINGS :

C978643 - Earth Point Connection Details

CUSTOMER NOTES

The customer to carry out all necessary lighting and heating installation and building work as described including the provision of the LV supply. The substation shall be wired independently of any other areas or customers accommodation.

Northern Powergrid will not install any equipment until the accommodation is deemed fit for purpose. Customer service will not be made live until completion certificate is issued.

Customer or their agent to obtain all necessary Planning and Building approvals before construction work commences.

This drawing is intended to indicate the minimum requirements for the installation of Northern Powergrid apparatus and is not in any way intended to describe the building to architectural, structural or other requirements.

The customer shall provide full construction drawings minimum 15 days prior to commencement of works, to allow Northern Powergrid to check for compliance with their requirements.

Substation to be designed in accordance with Northern Powergrid flood mitigation policy.

Northern Powergrid Project Engineer to be notified of commencement of site works to enable site inspections to be carried out during construction.

NORTHERN POWERGRID

Lloyds Court, 78 Grey Street, Newcastle Upon Tyne, NE1 6AF

Manufacturer Details

800 - 1000kVA UDE IN PREFABRICATED ENCLOSURE

Sheet No. 1

Scale AS SHOWN

Prepared By TM

Document Details STANDARD DISTRIBUTION SUBSTATION DRAWING

Revised

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Checked By JU

Revision D

Notes

Historic Drawing No.