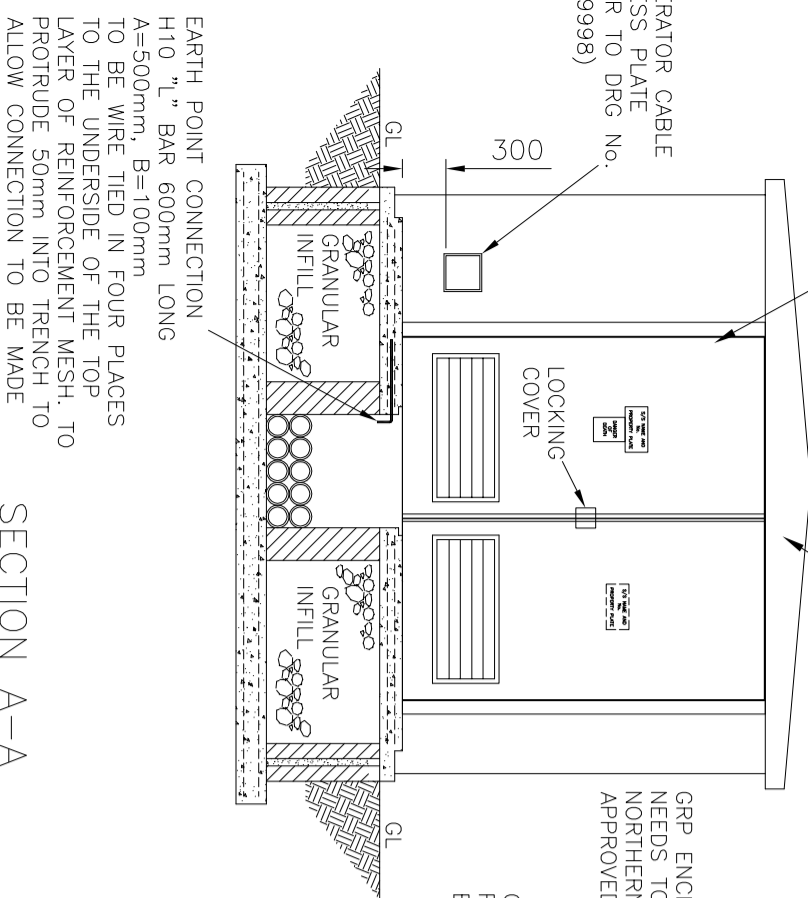


SUBSTATION DOORS TO MEET SPECIFICATION WITH VENTILATION OPENINGS. IN 2590x2400 HIGH BRICKWORK OPENING. LEFT LEAF TO OPEN FIRST.

REMOVABLE GRP ROOF

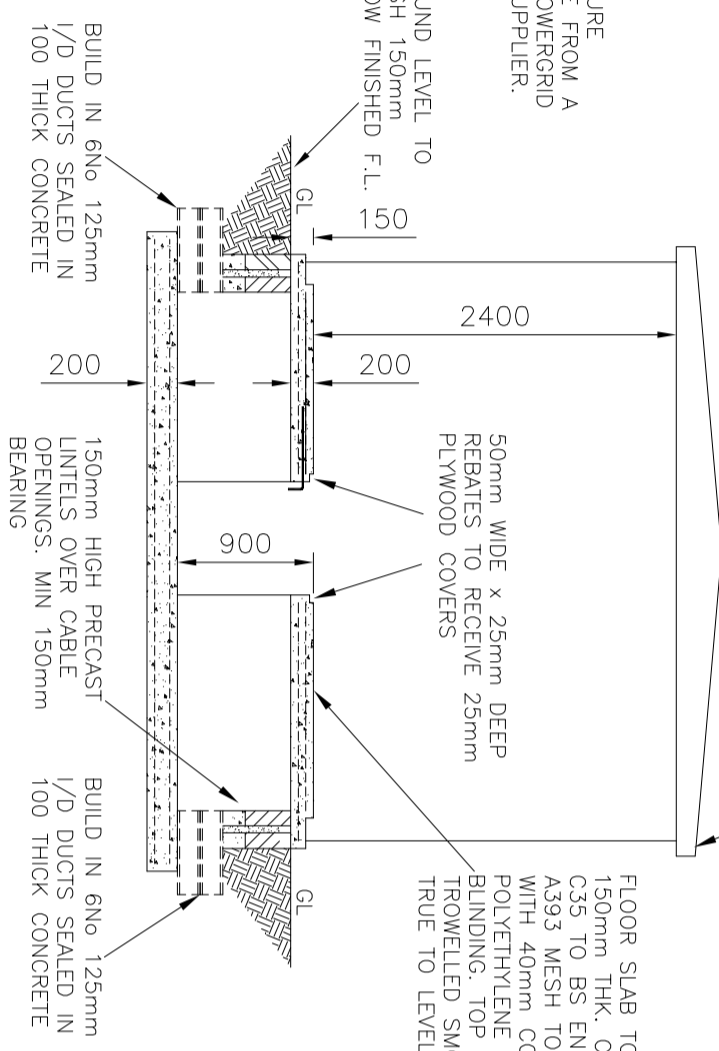
GENERATOR CABLE ACCESS PLATE REFER TO DRG No. (C969998)



SECTION A-A
SECTIONAL ELEVATION
(VIEWED FROM OUTSIDE)
SCALE 1:50

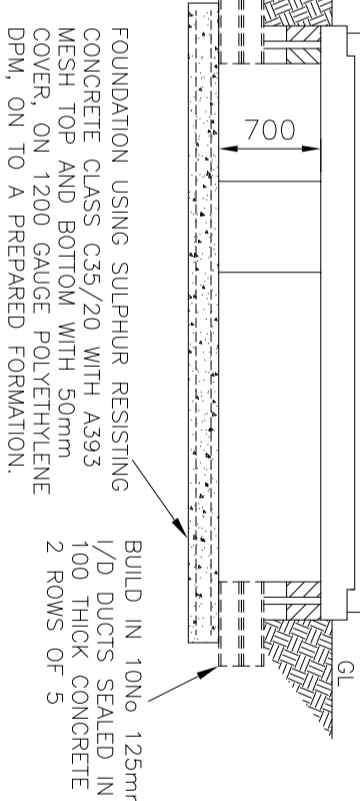
ROOF TO HAVE EXPLOSION RELIEF FITTINGS

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



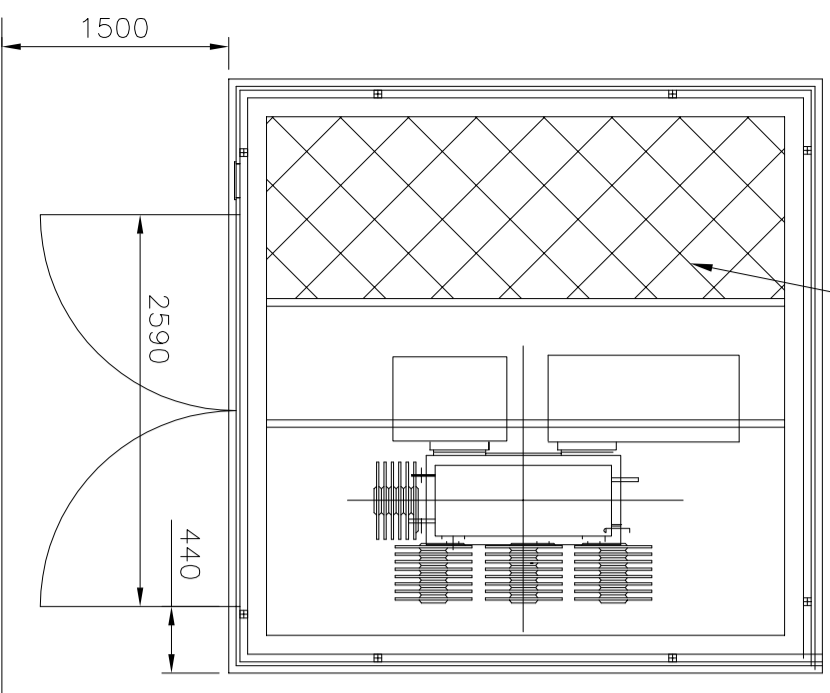
SECTION B-B
SCALE 1:50

DOOR THRESHOLD CAP TO BE GROUDED AFTER GRP INSTALLATION.

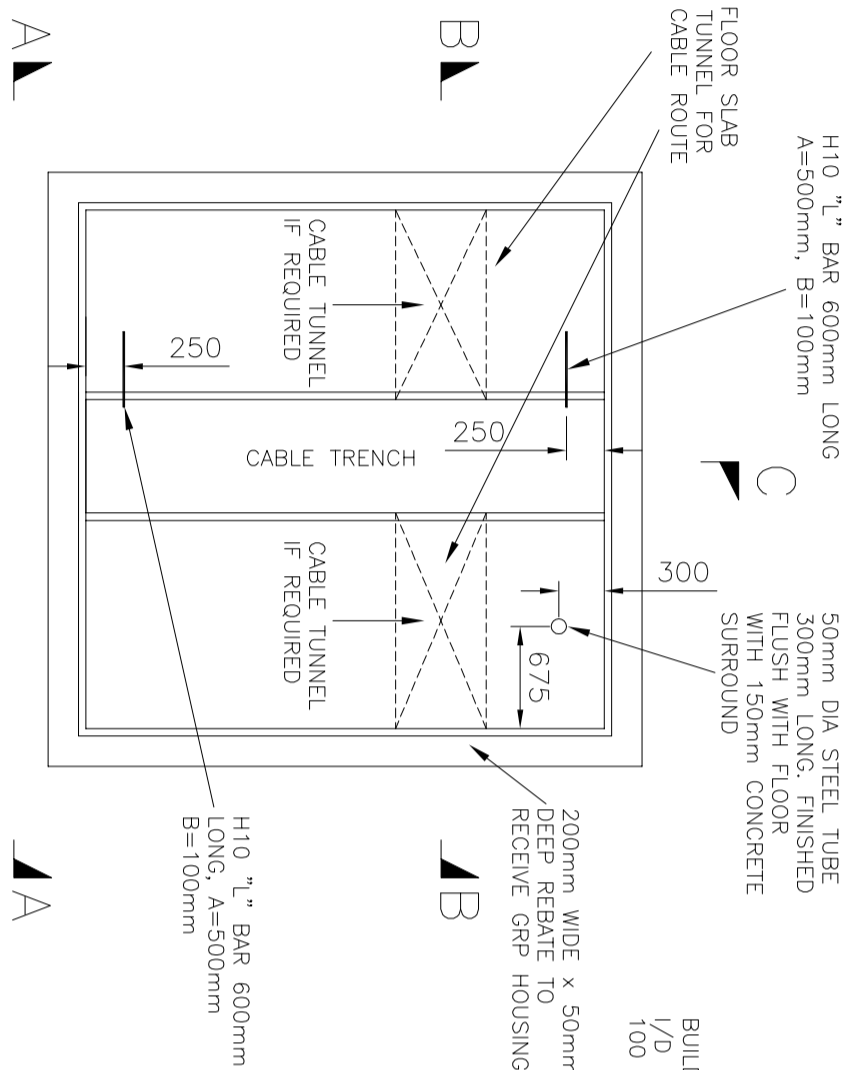


SECTION C-C
SCALE 1:50

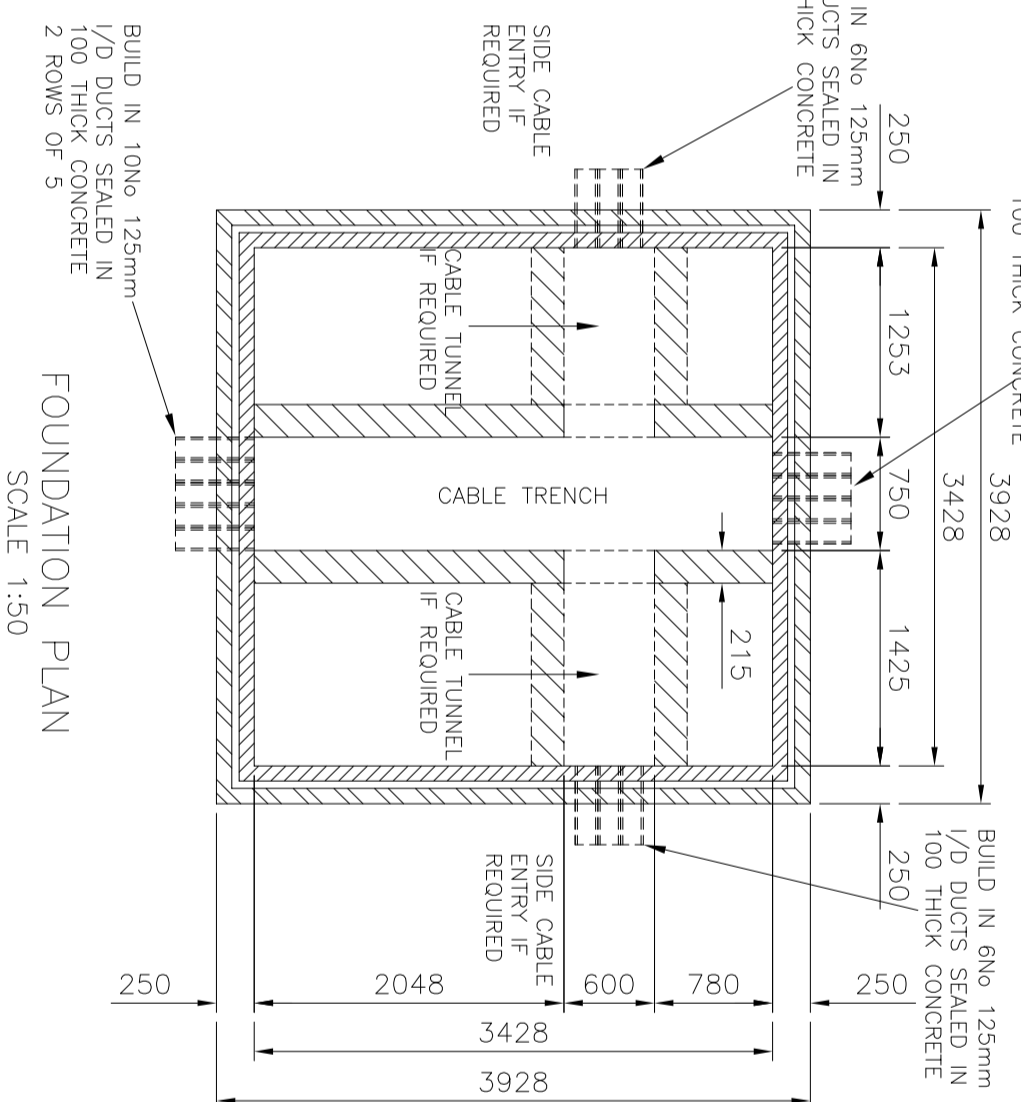
EARTHED AREA OF FLOOR SLAB REINFORCEMENT SHOWN HATCHED TO BE INSPECTED BY NORTHERN POWERGRID CLERK OF WORKS PRIOR TO POURING CONCRETE.



ELECTRICAL LAYOUT &
ENCLOSURE
SCALE 1:50



PLAN
SCALE 1:50



FOUNDATION PLAN
SCALE 1:50

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.

CONFIGURATION OF CABLE TUNNELS AND DUCTS TO BE AGREED WITH ELECTRICAL ENGINEER / FPS COV BEFORE FOUNDATIONS ARE BUILT.

VENTILATION TO BE DESIGNED BY CUSTOMER TO MEET NORTHERN POWERGRID SPECIFICATION

MAX ROOM TEMP 30 °C

MAX TRANSFORMER HEAT OUTPUT 12kW

FOR INTERNAL POWER AND LIGHTING SPECIFICATIONS SEE DRAWING C1010063 Rev C

INTERNAL CUBIC CAPACITY - 28.4m³

FLOOR:

- Foundations to be designed for a maximum weight of transformer of 40kN and a minimum ground bearing pressure of 80kN/m²
- The foundations shown are for a substation built on natural ground, if ground is unsuitable 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 (on electrical layout) to be inspected by Northern Powergrid clerk of works prior to pouring concrete.
- Trench covers to be 25mm exterior quality MBP ply, maximum width 1200mm, each cover to have 2 No. 35mm diameter finger holes, covers to be painted two coats silver glass paint both sides and all edges
- Floor to be cast to front face of door opening, providing solid threshold. External level to be 150mm below finished floor level, allow unrestricted access for gear, and have a level landing area.
- 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

BRICKWORK:

- Masonry below ground level to be 7N/mm² dense concrete block or brick.
- Walls to be 250mm cavity walls with blockwork or brick inner leaf. Internal walls minimum 100mm thick 7N concrete block or brickwork. Leads to be tied together with stainless steel double triangle wall ties to BS1243 at 450mm centres vertical and 900mm centres horizontal.
- 215mm trench walls to be fair faced and flush pointed dense concrete block or brick.

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

Core 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.

REFERENCE DRAWINGS :

- C978643 - Earth Point Connection Details
- C1010063 Rev C - Internal Power & Lighting for 315 - 1000kVA Slide in UDE Substation

		Lloyds Court, 78 Grey Street, Newcastle Upon Tyne, NE1 6AF	
		315 - 1000kVA SLIDE IN UDE IN PREFABRICATED ENCLOSURE	
Manufacturer Details	Scale	Document Details	
Sheet No. 1	AS SHOWN	Prepared By	TM
Revised	Grid Reference	Ref No.	C1061924
Date Issued 16.05.16	Checked By JU	Revision	A
		STANDARD DISTRIBUTION SUBSTATION DRAWING	
		Historic Drawing No.	