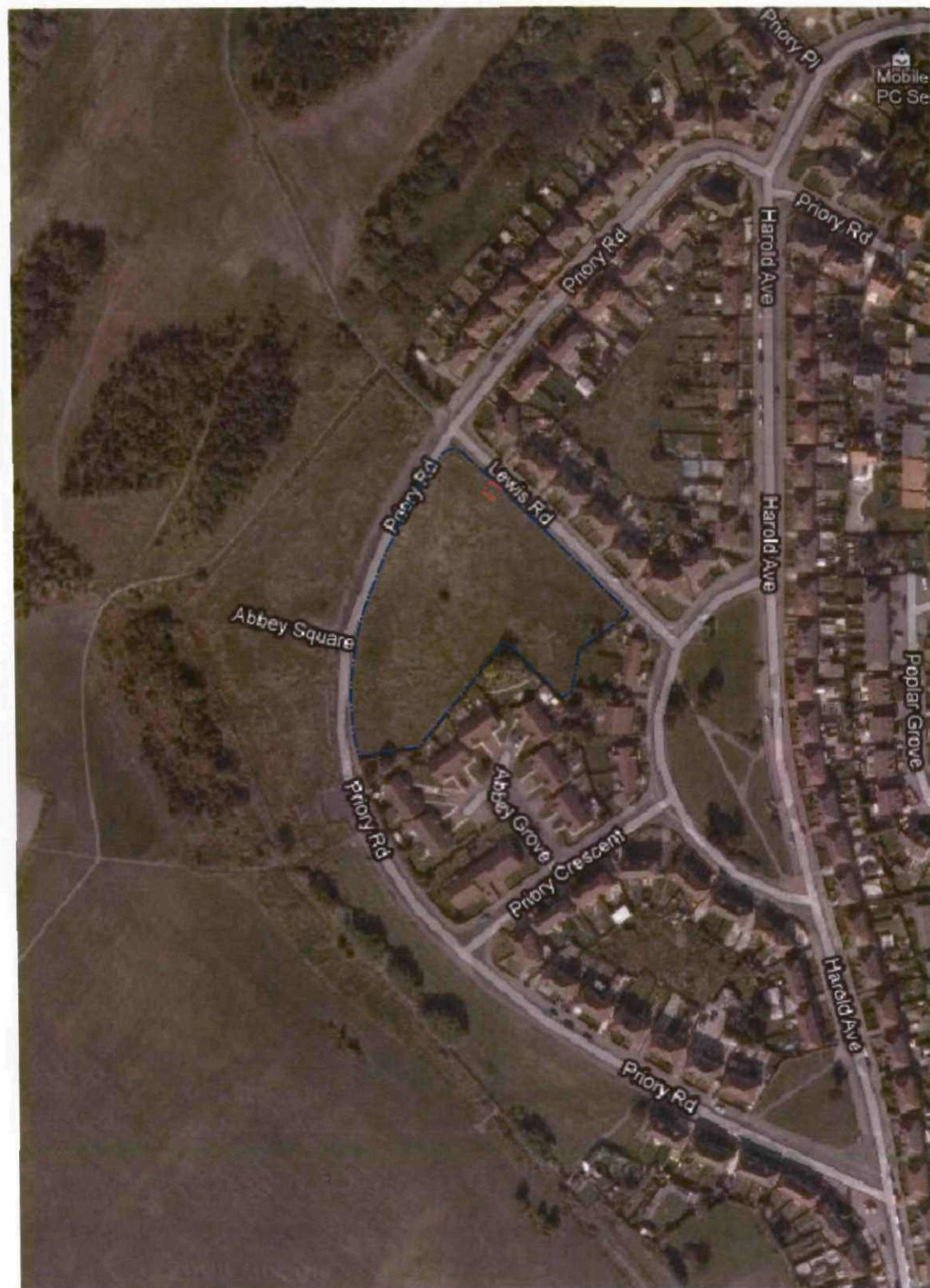




AERIAL VIEW 1:2500



LOCATION PLAN 1:1250

REVISIONS

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PRIORY ROAD
LUNDWOOD, BARNLEY

ELECTRICAL SUB-STATION LOCATION PLAN

Drawn: MAB
Date: MAY 12

Scale: 1:1250 @ A3
Checked:

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LS6 2EN

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info@brewsterbye.co.uk



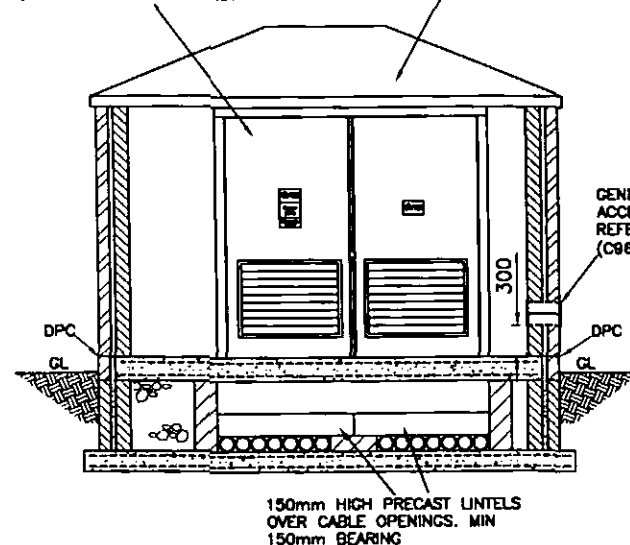
Dwg No: 370/09(09)010 #

SUBSTATION DOORS TO MEET SPECIFICATION WITH VENTILATION OPENINGS IN 2580X2400 HIGH BRICKWORK OPENING. LEFT LEAF TO OPEN FIRST

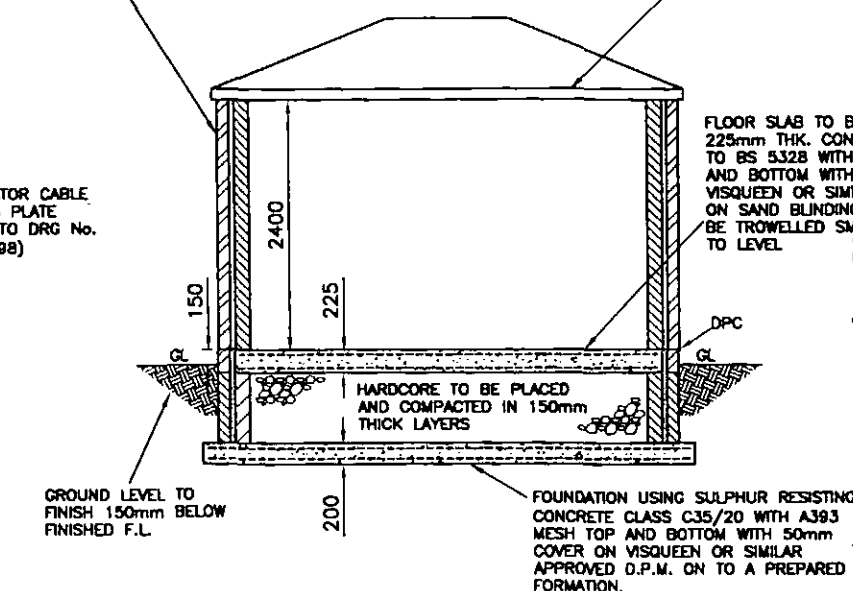
REMOVABLE ROOF GRP/STEEL TO BE IN PLACE PRIOR TO EQUIPMENT DELIVERY

CAVITY WALLS WITH EXTERNAL FACE TO BE OF COLOUR AND STYLE TO MATCH ADJACENT DEVELOPMENT.

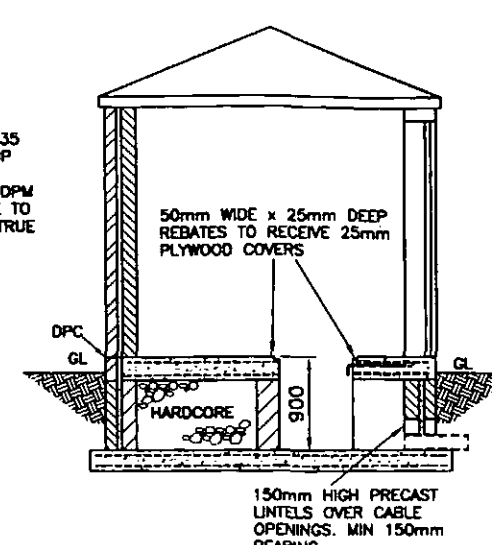
EAVES VENTILATION TO BE PROVIDED



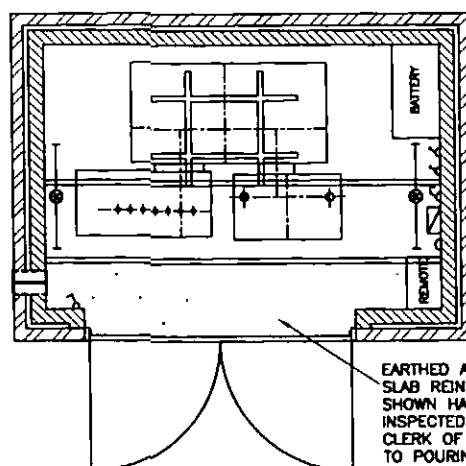
SECTION A-A
SCALE 1:50



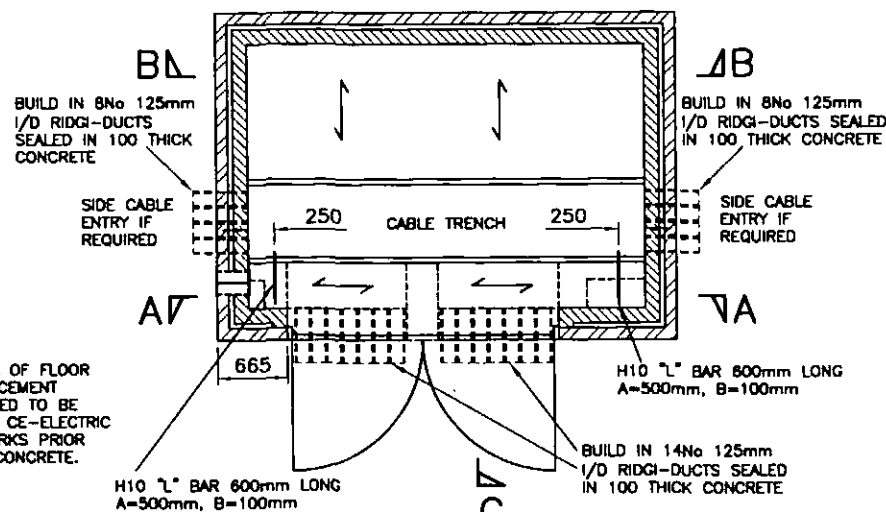
SECTION B-B
SCALE 1:50



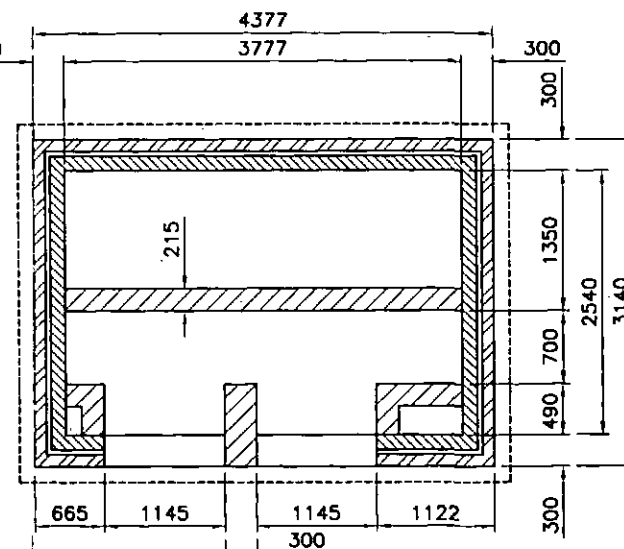
SECTION C-C
SCALE 1:50



ELECTRICAL LAYOUT
SCALE 1:50



PLAN
SCALE 1:50

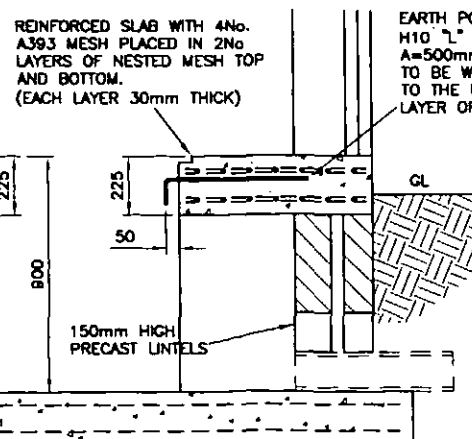


FOUNDATION PLAN
SCALE 1:50

- ⬤ LIGHT SWITCH
- ⬤ SWITCHED SOCKET OUTLET
- ⬤ SWITCHED SOCKET OUTLET (TEST)
- ⬤ UNSWITCHED SPUR
- ⬤ CONSUMER UNIT WITH MCB's
- ⬤ FLUORESCENT TUBES IN IP56 FITTINGS (WALL MOUNTED)

ALL FITTING/CONDUIT TO BE PVC
FOR DETAILED INFORMATION SEE TECHNICAL SPECIFICATION NPS/006/001

REINFORCEMENT REQUIRED
A393 MESH. FOUND SLAB =
225mm FLOOR SLAB =
MIN LAP 400mm



TRENCH DETAIL
SCALE 1:20

EARTH POINT CONNECTION
H10 1/2" BAR 600mm LONG
A=500mm, B=100mm
TO BE WIRE TIED IN FOUR PLACES
TO THE UNDERSIDE OF THE TOP
LAYER OF REINFORCEMENT MESH

CUSTOMER NOTES

The customer to contact CE Electric engineer to clarify the requirement of the necessary lighting and heating installation as described including the provision of the LV supply. The substation shall be wired independently of any other areas or customers accommodation.

CE Electric 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 CE Electric 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 CE Electric to check for compliance with their requirements.

Substation to be designed in accordance with CE Electric flood mitigation policy.

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

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 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.
- Earthed area of floor slab reinforcement shown hatched (on electrical layout) to be inspected by CE-Electric clerk of works prior to pouring concrete.
- 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 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 CE Electric 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.

ROOF:

- Substation construction to provide 0.25 W/m² °C to roof.
- Roof to be non fragile, waterproof membrane to have minimum life expectancy of 15 years. On sloping or tiered sites, measures shall be incorporated to prevent access on to roof.
- All roofs to be secured to walls via proprietary fixings or straps (explosion relief devices not acceptable) to be designed to BS6399 part 3.

BRICKWORK:

- Masonry below ground level to be 7N/mm² dense concrete block or brick.
- Walls to be 300mm cavity walls with blackwork or brick inner leaf. Internal walls minimum 140mm thick 7N concrete block or brickwork. Leafs 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.

DOORS:

- Doors shall be to CE Electric type specification. Other door types shall only be used with prior written approval of CE Electric, must accommodate CE Electric double locking arrangement utilising Yale Type 82 cylinder deadlock and swivel locking bar, and must be provided with documentation proving LPS 1175SR 3 or similar minimum security rating.
- Doors to include ventilation where required via steel door louvres to CE Electric specification and approval.
- Door reveals & lintel soffits to be closed, closure to provide minimum 1 hour fire protection.

Trenches and cable routes linked to customer's accommodation to be closed off after cable installation. Closure to prevent physical access into substation and provide one hour min fire protection.

If applicable no structural steel within substation to be exposed. Steel doors shall be fixed to masonry and not to steel structural frame of building.

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.

REFERENCE DRAWINGS:

- C969425 - Hardwood Ventilated Door Details (use Door Type K)
- C969423 - Standard Steel Door Details (use Door Type D)
- C969426 - Door Louvre Details
- C969428 - Roof Details (GRP/STEEL)
- C969998 - Generator Cable Access Detail
- C978643 - Earth Point Connection Details

REFERENCE DOCUMENTS:

- IMP/003/001 - Code of Practice for the Construction and Building Design of Ground Mounted Secondary Substations.
- NPS/006/001 - Technical Specification for the Construction of Ground Mounted Secondary Substations.

CE Electric UK		Lloyds Court, 78 Gray Street, Newcastle Upon Tyne, NE1 6AF	
Manufacturer Details		TYPE A1 UDE SUBSTATION (BRICK)	
Sheet No.	Scale		
1	AS SHOWN		
Prepared By	Document Details		
TD	STANDARD DISTRIBUTION SUBSTATION DRAWING		
Revised	Ref No.		
	0060407	Historic Drawing No.	

ACCOMMODATION SCHEDULE		
TYPE	NO.	AREA
A1 - 2b/4p	6	77.0m ²
A2 - 2b/4p	3	88.8m ²
B - 3b/5p	10	96.0m ²
C - 3b/5p	4	92.8m ²
D - 3b/5p	1	107.0m ²
E1 - 3b/5p	5	101.0m ²
E2 - 3b/5p	1	112.0m ²
Total	30	



	STAGE 1 Information/ Comments	STAGE 2 Construction	
	Risk of injury to residents or neighbouring properties due to vibration from the construction of the new building.	Risk of injury to residents or neighbouring properties due to vibration from the construction of the new building.	
	The proposed construction of the new building is expected to be completed by the end of 2010.	The proposed construction of the new building is expected to be completed by the end of 2010.	
	The proposed construction of the new building is expected to be completed by the end of 2010.	The proposed construction of the new building is expected to be completed by the end of 2010.	
BASE MAPPING - reproduction of the Ordnance Survey map of the area, showing the location of the proposed development and the surrounding area.	BASE MAPPING - reproduction of the Ordnance Survey map of the area, showing the location of the proposed development and the surrounding area.	BASE MAPPING - reproduction of the Ordnance Survey map of the area, showing the location of the proposed development and the surrounding area.	BASE MAPPING - reproduction of the Ordnance Survey map of the area, showing the location of the proposed development and the surrounding area.

REVISIONS

REV'C: 01/05/12; boundary treatments clarified based on Client comments

REV'B: 17/04/12; substation location added

REV'A: 02/04/12; bins to plot 19 relocated

Strategic | TEAM GROUP

RESIDENTIAL DEVELOPMENT
PRIORITY ROAD
LUNDWOOD, BARNSTLEY

PROPOSED SITE PLAN

Drawn: JMM
Scale: 1:250 @ A1
Date: NOV 11
Checked: MB



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Dwg No: 370/09(09)002 C