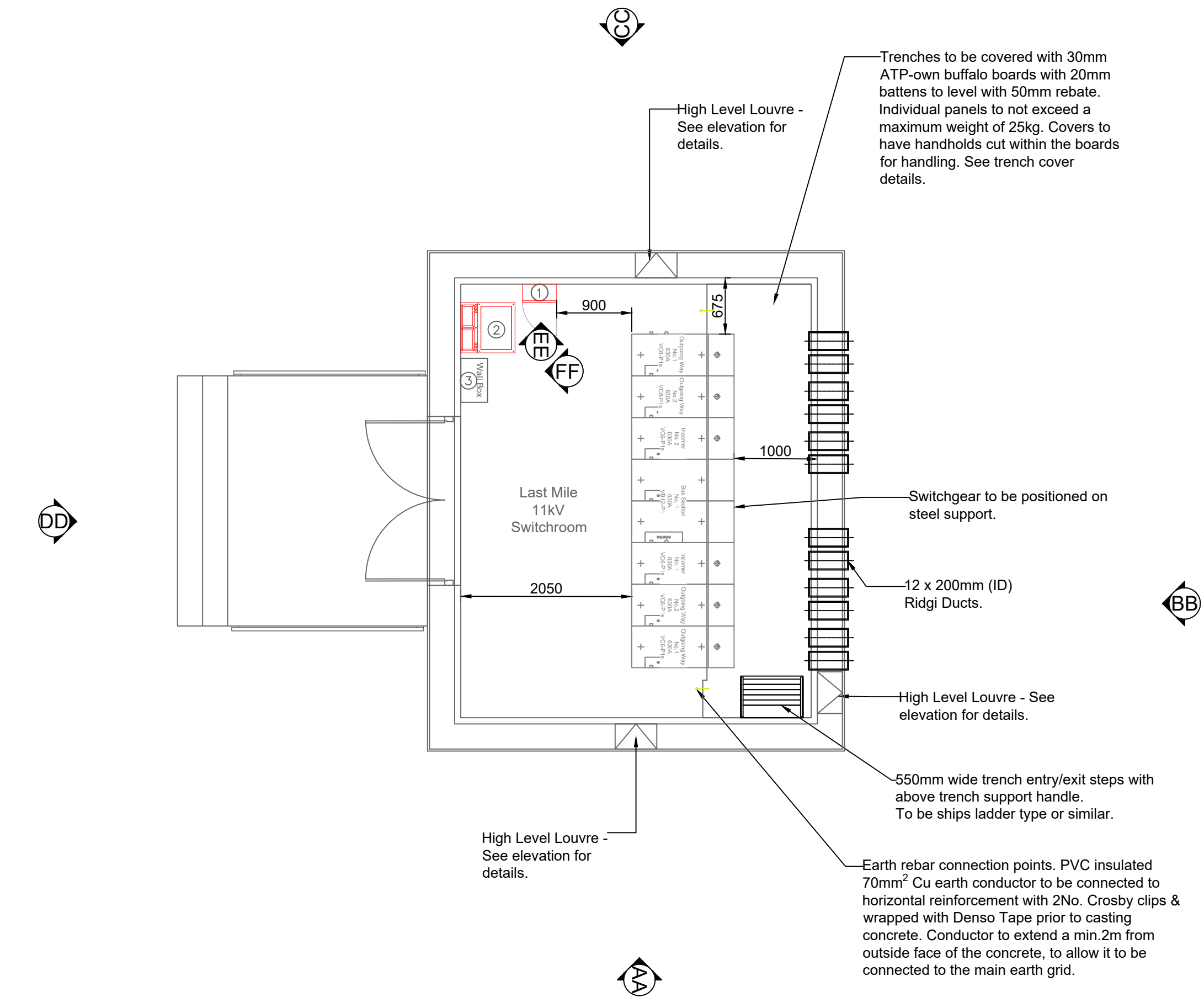


IMPORTANT NOTE:
Substation Location

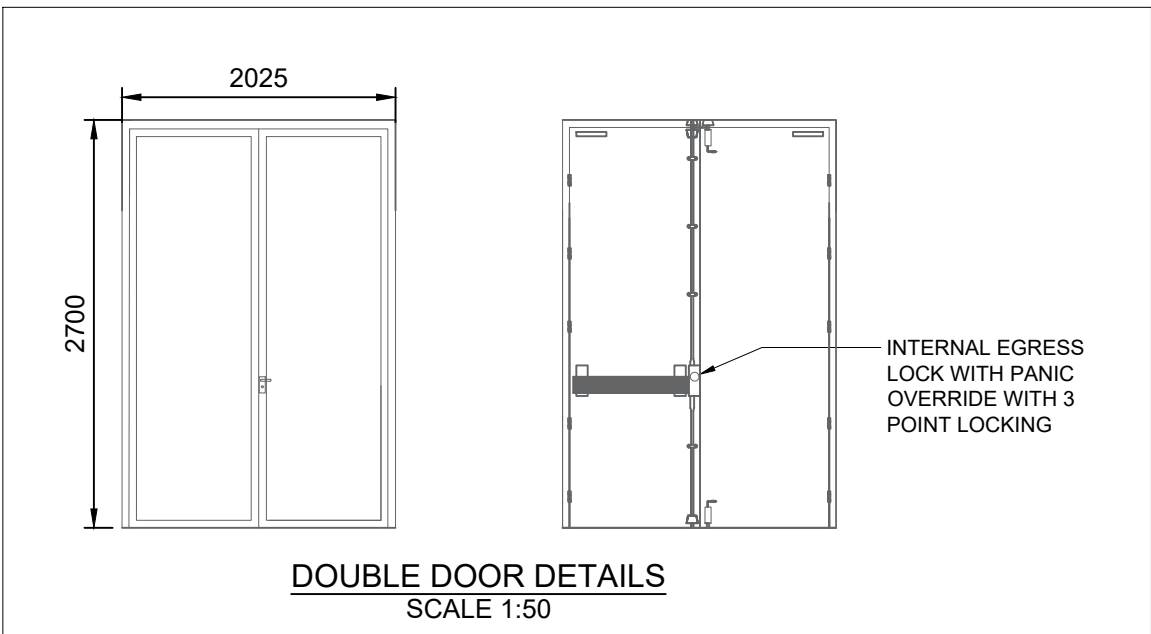
- Clients structural engineer to ensure the ground beneath the substation is suitable for the total weight of the substation.

Plinth design

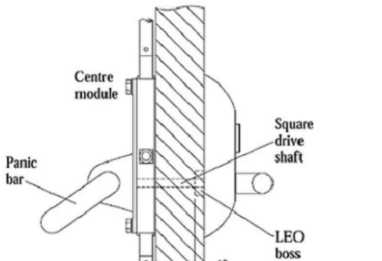
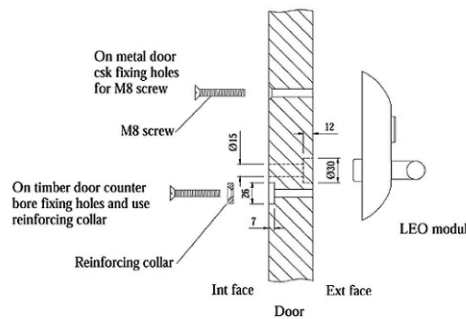
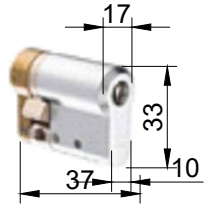
- Clients structural engineer to design the plinth to support a total weight of the enclosure and substation equipment. If the plinth thickness needs to be increased, please advise the UKPS Design Team.



SWITCHROOM DETAILS
SCALE 1:50

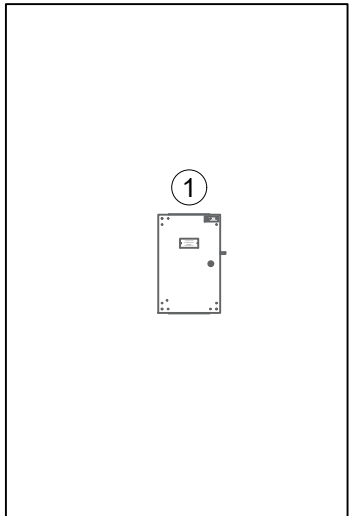


DOUBLE DOOR DETAILS
SCALE 1:50

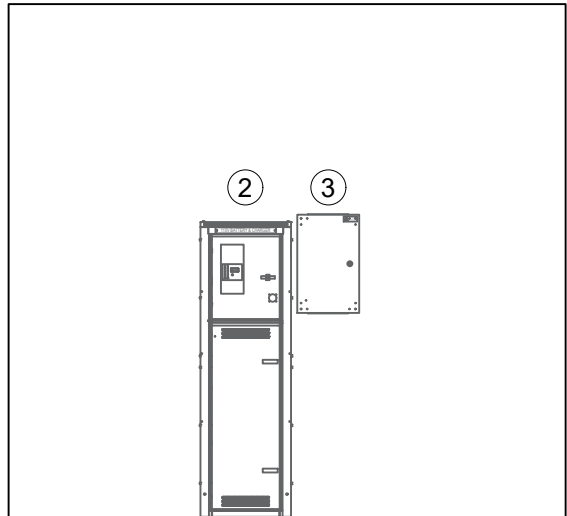


DOOR LOCKING DETAILS - NTS

- Hardened steel satin finish euro profile single cylinder BSEN1303 Grade 2 resistance to attack Grade 6 key related security. To fit into external escape locking device to provide external key access.



ELEVATION EE
SCALE @1:50



ELEVATION FF
SCALE @1:50

ELEVATION EE LAST MILE EQUIPMENT SCHEDULE				
REF	DESCRIPTION	DIMENSIONS (mm)	WEIGHT	PROVIDER
1	110V 6 WAY DISTRIBUTION BOARD	410(W)x220(D)x650(H) WALL MOUNTED	25kg	UKPS
2	110V BATTERY CHARGER & BATTERY	600(W)x650(D)x1960(H) FLOOR MOUNTED	488kg	UKPS
3	WALL BOX	WALL MOUNTED		UKPS

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- The contractors attention is drawn to the need for strict accuracy in setting out the foundation.
- All lines and angles are to be formed square, plum and true.
- Any planning consents required are to be gained by the developer prior to commencement of works on site.

Design Life

- The design life of the enclosure shall be a minimum of 50 years. All components are to be maintenance free for at the least low maintenance items.

Switchroom Access

- The 11kV room shall be sited to afford 24hr Last Mile access. For specific access/offloading requirements see Last Mile performance specifications.
- Proposed soft landscaping adjacent to the building (e.g. planting schemes) shall allow for future plant growth without compromising access or the overpressure vents.

Structural Design

- The customer is responsible for the sizing/ framing/ configuration of all components as necessary to safely transfer/import all adverse combinations of dead and imposed loadings to the natural foundation. (Total vertical dead load from Last Mile switchgear = 700kg for each unit, 1400kg combined)
- The switchroom shall be designed to deliver a maximum target insulation value of 0.45W/m².K.
- The enclosure shall be designed to provide a minimum fire resistance of 1 hour.

Dimensions

- This drawing details the minimum internal dimensions and juxtaposition of elements to accommodate Last Mile plant.

Drainage

- The enclosure shall be designed to adequately collect and convey surface water to a suitable point of disposal.

Site Clearance

- Before commencing excavations clear site of all rubbish, debris, shrubs general vegetation, topsoil etc.

Excavation

- Excavate to reduced levels and remove surplus material from site.
- Level and compact bottoms of excavation to receive concrete blinding layer/concrete foundation.

Structural Notes:

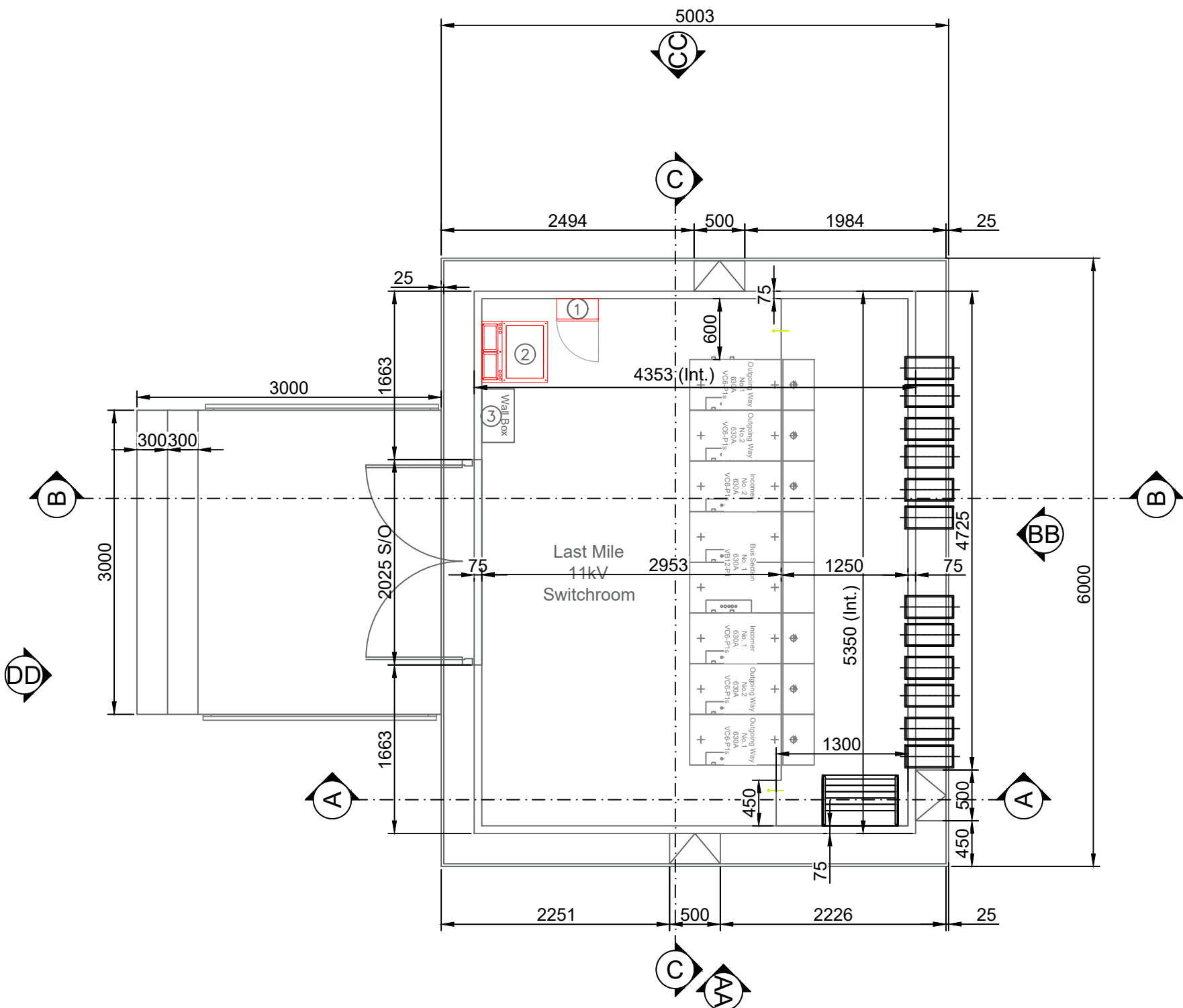
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1	Scale Bar added	02/06/26	AA
0	Preliminary Design	01/07/25	CR
REV	AMENDMENT	DATE	BY

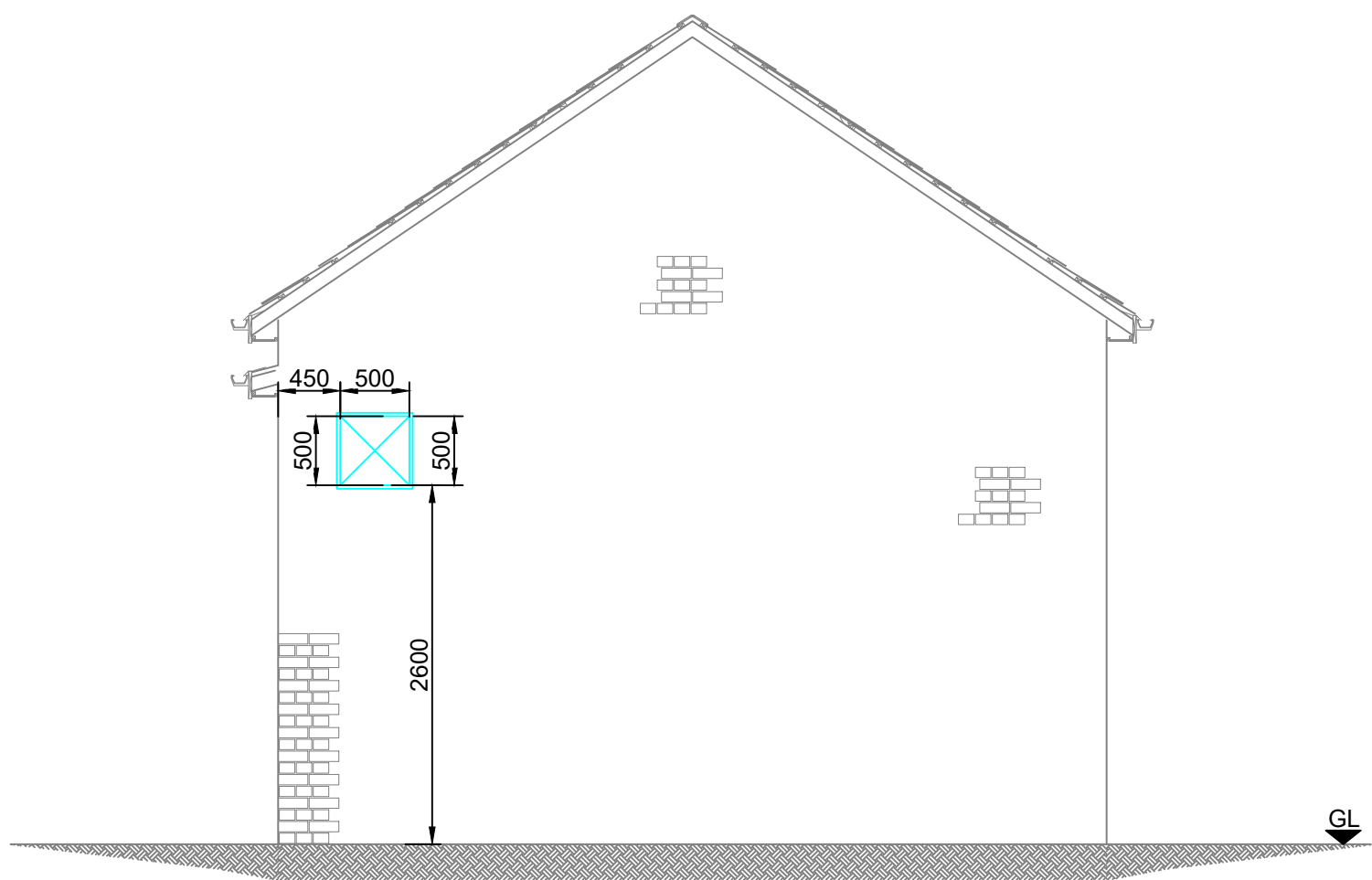
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ukpowersolutions.co.uk

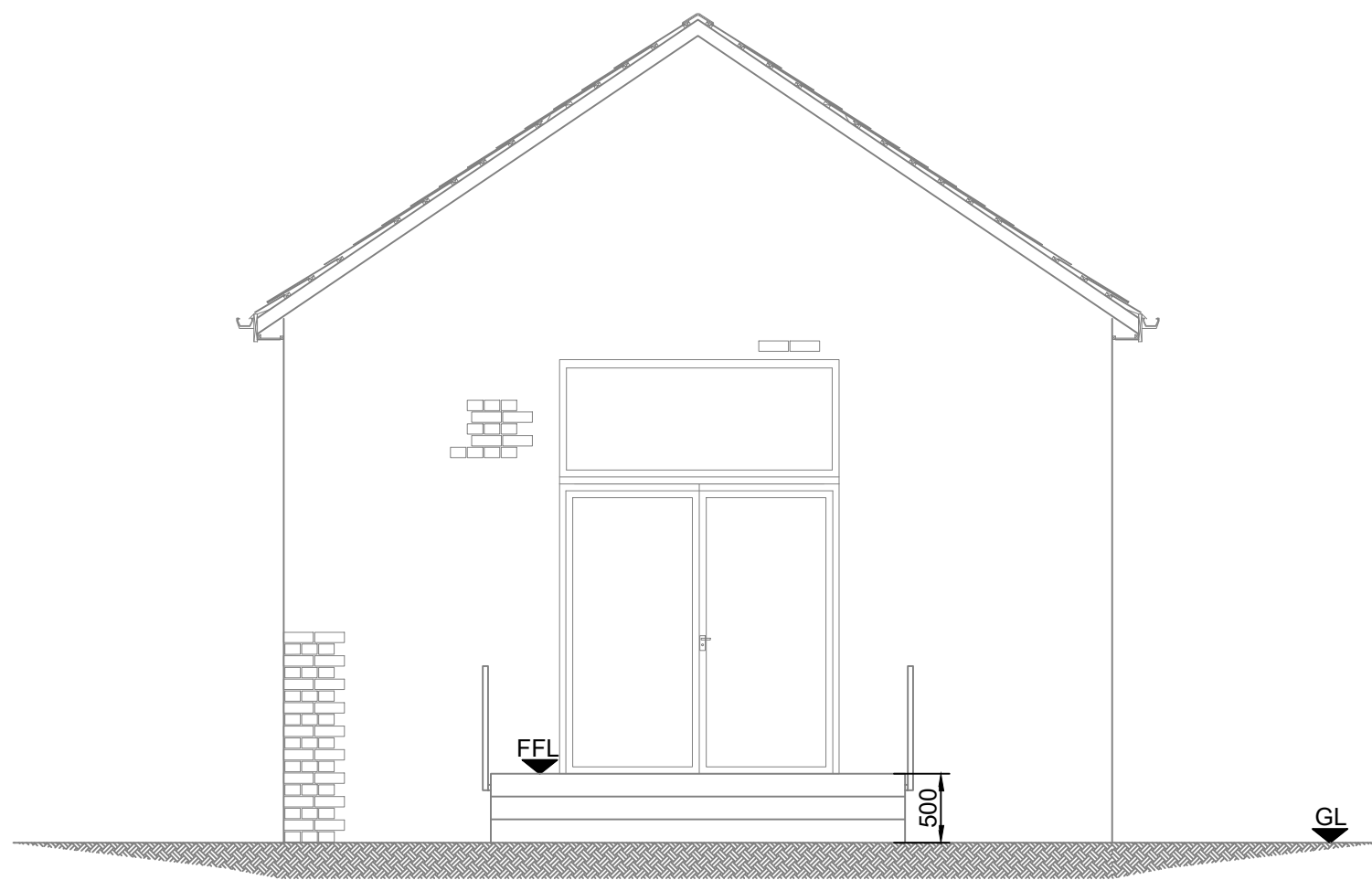
Client	Persimmon Wessex		
Project	Ashton Park Trowbridge		
Title	Construction Details - Switching Station		
Design and Planning Engineer	Tosin Likinyo	Contact No.	0845 257 7105
Project Manager	TBC	Contact No.	TBC
Drawn By	CR	Checked By	PS
Scale	As Shown	Sheet No.	1 of 3
Drawing No.	UKP7882 - DWG400		
Client Ref.	---		
Drawing Status	For Information		Rev 1



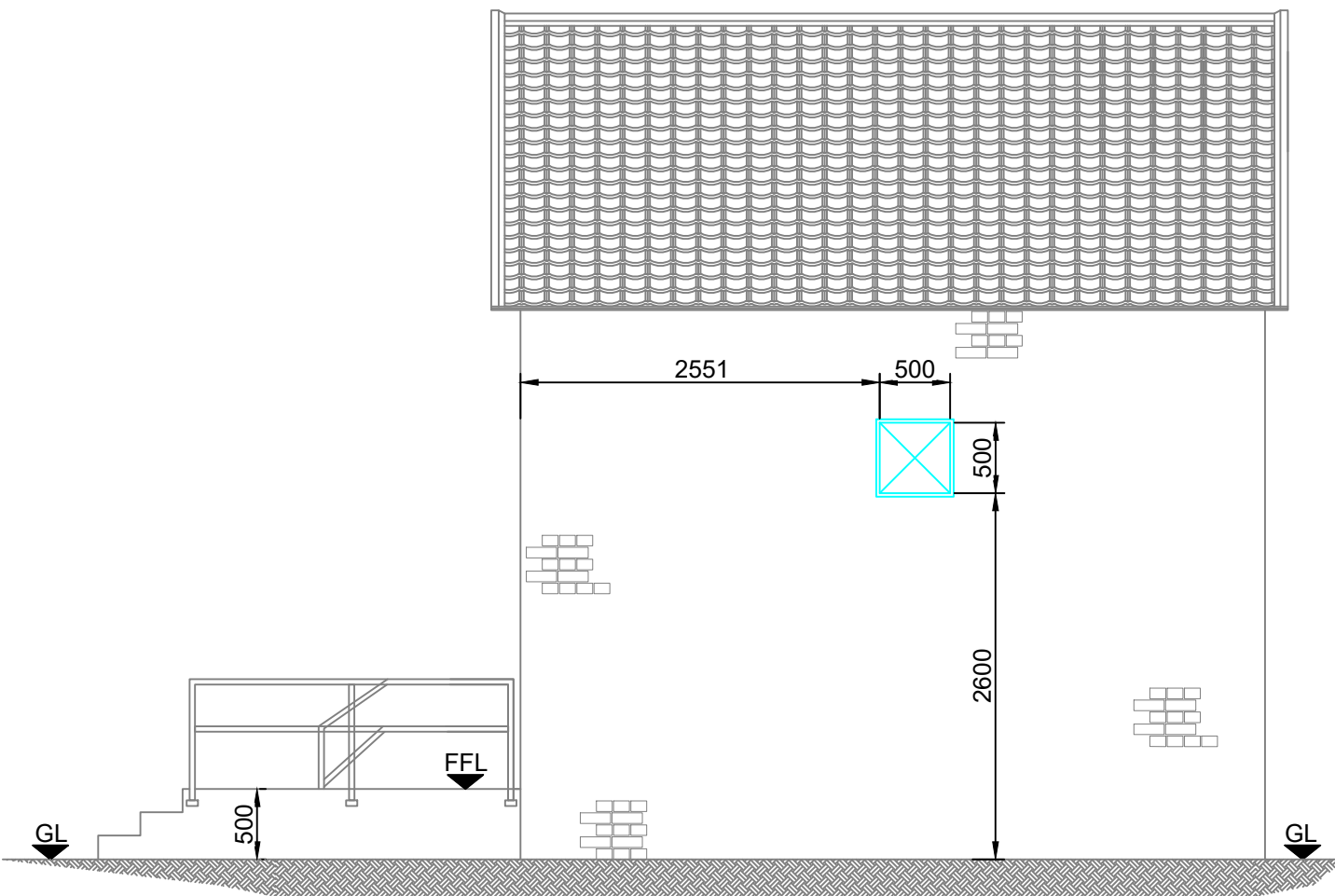
GENERAL ARRANGEMENT DETAILS
SCALE 1:50



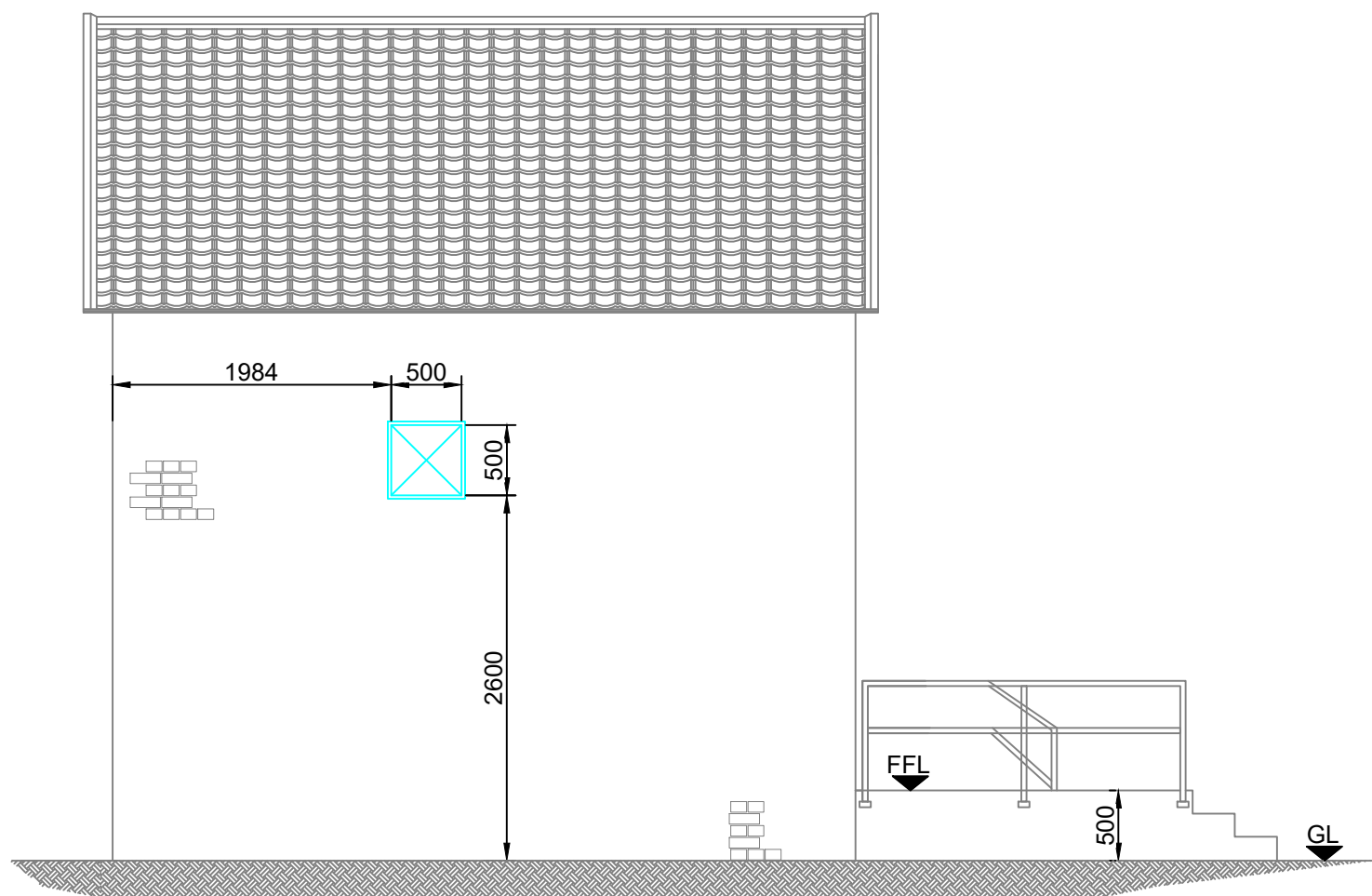
ELEVATION B-B
SCALE 1:50



ELEVATION D-D
SCALE 1:50



ELEVATION AA
SCALE 1:50



ELEVATION CC
SCALE 1:50

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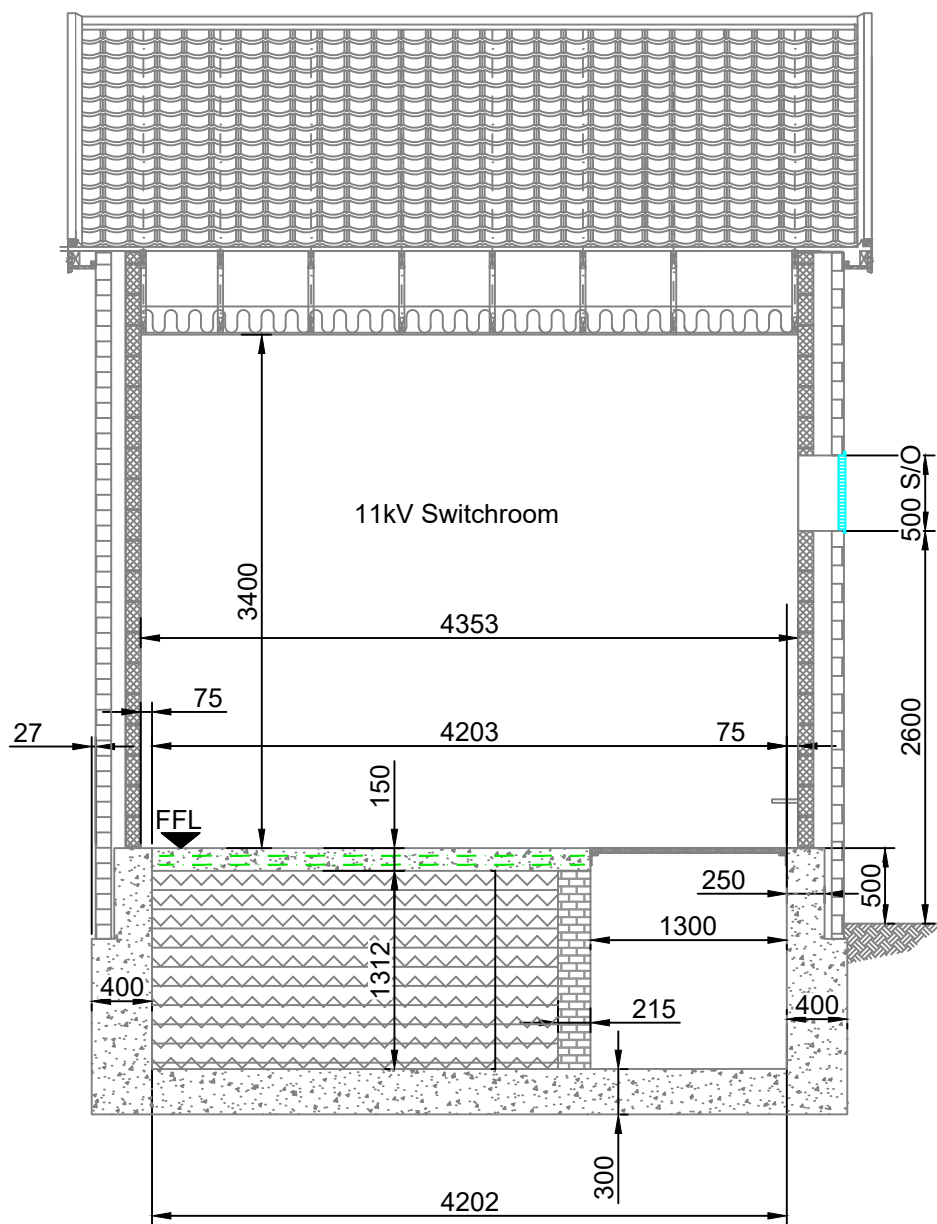
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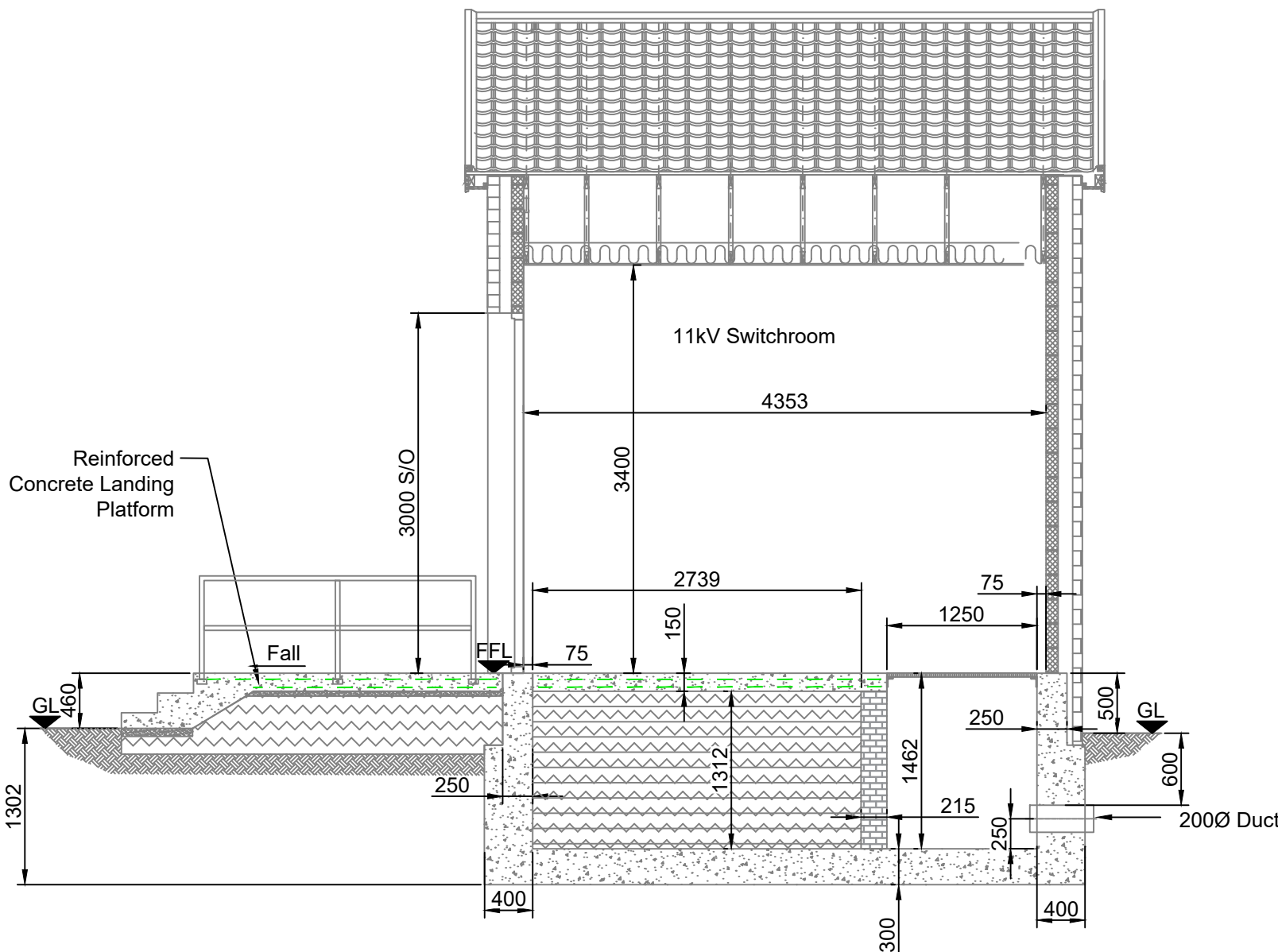
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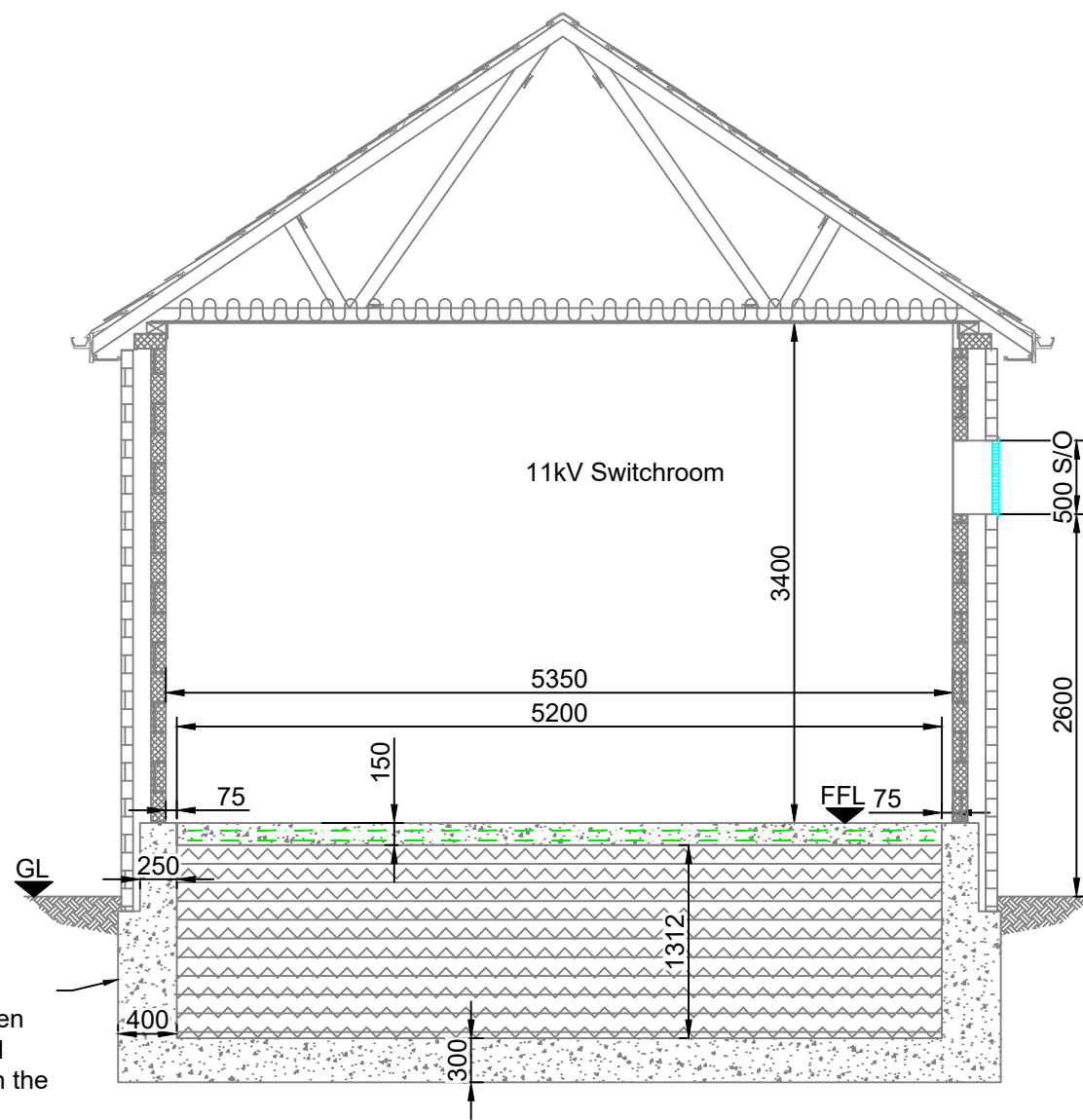
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Project	Ashton Park Trowbridge		
Title	Construction Details - Switching Station		
Design and Planning Engineer	Tosin Likinyo	Contact No.	0845 257 7105
Project Manager	TBC	Contact No.	TBC
Drawn By	CR	Checked By	PS
Scale	A1 Shown	Sheet No.	2 of 3
Drawing No.	UKP7882 - DWG400		
Client Ref.	---		
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SECTION A-A
SCALE 1:50



SECTION B-B
SCALE 1:50



SECTION C-C
SCALE 1:50

Tanked structure -
• A rubberised bitumen based emulsion DPM paint to be applied on the outer walls for waterproofing.
• Waterbar: Kicker line 25mm wide by 12mm deep groove casts in first pour to receive rawseal SQ25 or similar approved.

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