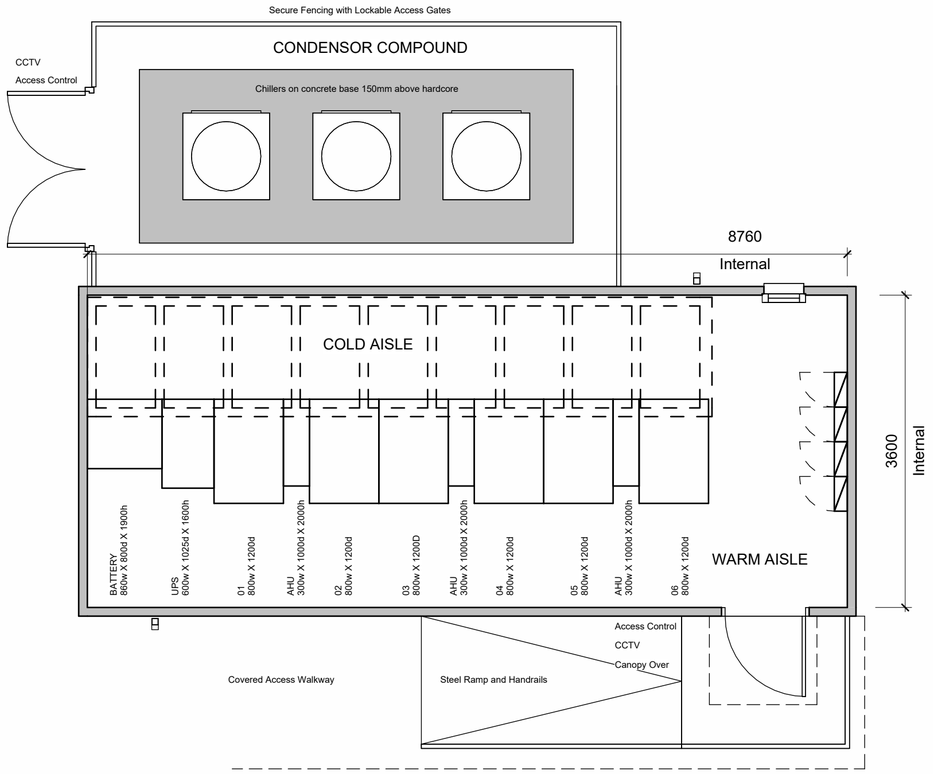
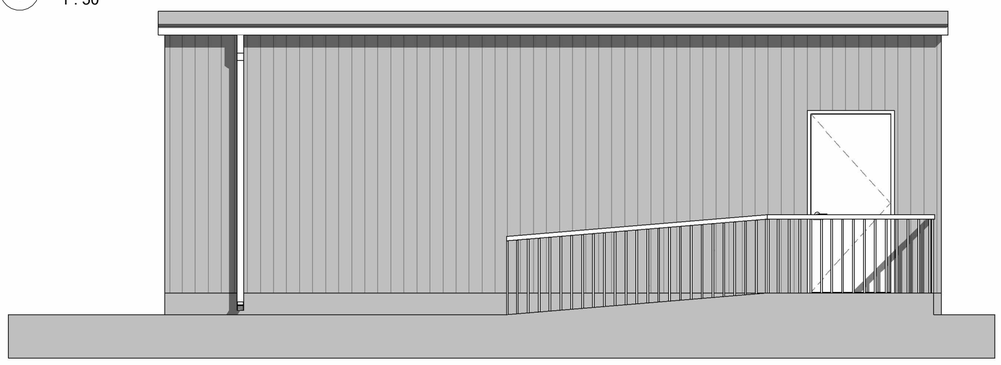
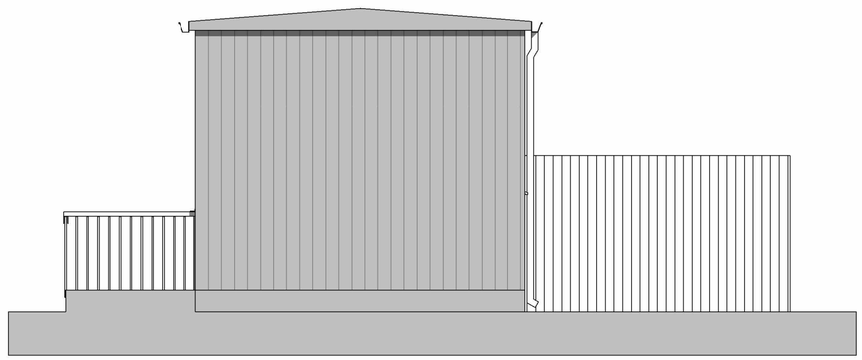


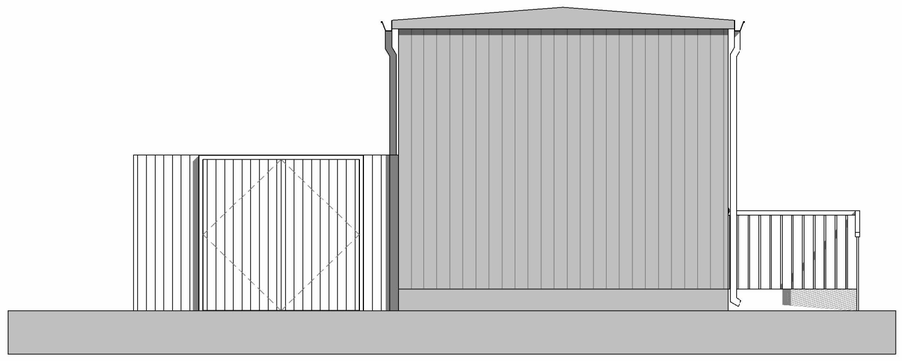
1 Proposed Plan
1 : 50



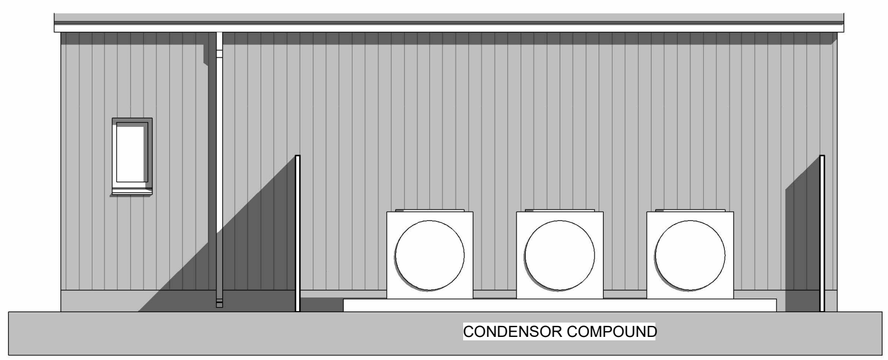
2 Front Elevation
1 : 50



3 Side elevation 1
1 : 50



5 Side Elevation 2
1 : 50



4 Rear Elevation
1 : 50

Specification - See Secure IT Environments Limited - Quotation Q15074

New Building

- Prefabricated Data Centre Modular Building
- Fully welded, double skinned, steel construction with internal dimensions of L8760mm x W3600mm x H3000mm
- Seperate external plant enclosure
- 60minute FR / fully insulated to give minimum U values of 0.18W/m^{2}K (Pyrofoam)
- 1No access doors with ramp access
- Approx 3^0 pithed roof to gutter system
- C3 standard coating with two pack acrylic paint - See Finishes Plan for colours
- Built at the factory and delivered to site for final installation

Data Racks & Hot Aisle Containment

- Supply of 6No. 48U x W800mm x D1200mm server racks and accessories including UPS
- Supply of 2No.intelligent vertical power distribution units
- Thermal containment to top of hot aisle

Air Conditioning

- 3No. inrow 300mm wide, 27.7kW Row-DENCO cooling units with associated condensing units to provide 50kW N+1 cooling
- Mechanical works package - all fixing & pipework installation, commissioning and testing

Electrical Installation

- Supply and install 250A Main Distribution Board c/w incoming power meter (MDB).
- Supply and install TVSS on MDB.
- Supply and install 125A EMBS with 2 x load output isolators for PDU A & B respectively, supplied from MDB.
- Supply and install 2 x 4 way TPN DB 's (PDU A / PDU B) to serve racks circuits. PDU ' s will be supplied via UPS EMBS outputs.
- Install overhead power containment to suite rack layout/ small power and AHU supplies.
- Install 300mm data basket onto racks.
- Install 1500mm LED battens on ceiling between cabinet aisles. Lighting circuits will be wired in PVC conduits with final connection to fitting via Klick plug in roses. Lighting will be manually controlled via switching alongside entrance door.
- Install dual 63A /240V A & B radial circuits to each cabinet position terminating into commando style sockets fitted directly to underside of power containment above each rack.
- Install 32A TPN supplies to 3 No AHU 's from MDB.

Electrical Installation Continued

- Install small power circuits as follows from MDB:
  Data hall lighting
  Cleaner's socket.
  Security panel.
  Fire Panel
  Door access
- Install main earth bar below MDB position.
- Install 25mm x 3mm copper tape via earth bar below rack positions with 10mm cable connection to each rack position for IT functional earthing.
- Install 10mm main bonding to AHU pipework, containment, and ductwork within data hall.
- Test installation to BS7671.

Fire Protection

- Complete IG55 Fire Suppression and Detection System & VESDA
- Test & commission

Environmental Monitoring

- Environmental monitoring, including temperature & humidity sensore, leak detection
- Motion capture surveillance cameras, including two external cameras
- DCIM - On premise or cloud based

Testing & commissioning

- Full integrated system test including loadbanks
- Staff training

Builders works

- Provisional sum for the provision of a concrete base to house the modular data centre
- Provisional sum for the provision of palisade type fencing to the perimeter of the concrete base fully enclosing the modular data centre and associated condensing units

Delivery & assembly

- Builld works to be completed off-site in specialist factory
- Delivery to site

General Notes

1. All of the designs are the sole property of TACP Architects Ltd and may not be used without their written agreement
2. All prints, specifications and their copyright are the property of TACP Architects Ltd
3. All dimensions shall be checked on site before commencement of shop drawings, manufacture and all discrepancies must be reported to TACP Architects Ltd
4. Do not scale off drawings

Revisions

Rev	Date	Description	By	Check

Client

BCUHB

Project Title

Modular Data Centre - Wrexham Maelor Hospital

Sheet Name

Proposed Modular Building Plan

Classification | Status

Scale	Date	Drawn	Checked
1 : 50@A2	25/02/26	MR	GM

Job Number	Project•Originator•Zone•Level•Form•Role•Number	Revision
25047	DATA-TACP-PB-XX- DR-A-1000	

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