

This drawing is to be read in conjunction with all relevant documents and drawings. Report all discrepancies to Property Directorate immediately. No unauthorised use, disclosure, storage or copying.

 WALKWAY PLATE TO STRUC. ENGINEER'S REQUIREMENTS

REFER TO ALL HL DRAWINGS FOR SUB-STATION AND SITE-WIDE INFORMATION

REFER TO STRUCTURAL ENGINEER'S DRAWINGS FOR FOUNDATION, FLOOR, WALLS, LINTELS, TRENCH, AND ROOF JOIST INFORMATION

REFER TO MECHANICAL & ELECTRICAL ENGINEER'S DRAWINGS FOR TRENCH REQUIREMENTS, SERVICE ENTRY / EXIT LOCATIONS, EQUIPMENT LOCATIONS, ETC.

REFER TO ALL MoI TECHNICAL STANDARDS FOR FENCE INFORMATION AND BUILDING SECURITY REQUIREMENTS.

SUB-STATION LEGEND

FOUNDATIONS:

1. FOUNDATIONS TO BE EXCAVATED AND POURED IN ACCORDANCE WITH STRUCTURAL ENGINEER'S DETAILS. JCC TO CONFIRM IF BELOW GROUND LEVEL CONCRETE CAN BE CHANGED TO 7N/MM2 DENSE CONCRETE BLOCKWORK AS SHOWN ON DRAWINGS

2. FOUNDATIONS AND SUBSTRUCTURE WORKS TO BE TANKED - REFER TO DRAWING 2300 AND VISQUEEN TANKING DETAILS

FLOORS:

3. 200mm INSITU CONCRETE FLOOR SLAB DESIGNED BY STRUCTURAL ENGINEER TO ACCOMMODATE SPECIFIC LOADINGS. FLOOR TO BE FLOAT FINISHED. SEE DRAWING 345610-2210-JCC-ZZ-FN-DR-S-0010. FLOOR FINISH TO SUIT LORNE STEWART REQUIREMENTS.

4. TRENCH COVERS TO STRUCTURAL ENGINEERS SPECIFICATION. TRENCH COVER TO BE RECESSED INTO CONCRETE SLAB MIN. 50mm.

5. CONCRETE FLOOR TO BE CAST OVER INNER LEAF OF CAVITY WALL. PRECAST CONCRETE THRESHOLD WITH DPC BEHIND TO FULL WIDTH OF DOOR OPENINGS. EXTERNAL LEVEL TO BE 150mm BELOW FINISHED FLOOR LEVEL, ALLOW UNRESTRICTED ACCESS FOR EQUIPMENT.

MASONRY:

6. MASONRY BELOW GROUND LEVEL TO BE 100mm 7 N/mm² DENSE CONCRETE BLOCKWORK LAID FLAT.

7. WALLS TO BE 252.5mm THICK CAVITY WALL CONSTRUCTION WITH MIN. 100mm DENSE 7 N/mm² PAINTGRADE BLOCKWORK INNER LEAF, 50mm CAVITY, 102.5mm BRICKWORK OUTER LEAF (BRICK CHOICE TO MATCH EXISTING OTHERS ON SITE), ANCON STAIFIX RT2 WALL TIES AT 450mm VERTICAL CENTRES & 900mm HORIZONTAL CENTRES WITH TIES AT 300mm FROM REVEALS. MASONRY PAINT FINISH INTERNALLY TO SEAL BLOCK. COLOUR WHITE

8. ROCKWOOL FIRE BARRIER OR SIMILAR APPROVED AT HEAD OF INTERNAL BLOCKWORK WALL TO PROVIDE PROTECTION BETWEEN TANK ROOM AND ELECTRICAL ROOM

9. 210mm THICK TRENCH WALLS TO BE 100mm 7 N/mm² DENSE TARMAC STANDARD SOLID CONCRETE BLOCKWORK FAIR FACED CONSTRUCTION WITH BUCKET HANDLE POINTING.

10. LINTELS TO CAVITY WALLS AND INTERNAL WALLS TO BE CB50HD STANDARD/MEDIUM DUTY CAVITY WALL LINTEL AS PER STRUCTURAL ENGINEER'S REQUIREMENTS.

11. ALUMINIUM COPING FINISH TO EXTERNAL WALL BY ALUMINIUM RAINFLOW LTD OR SIMILAR APPROVED - MECHANICALLY FIXED TO MANUFACTURERS SPECIFICATION AND DETAILS. COLOUR RAL 7016

ROOFS:

12. CEILING HEIGHT TO BE MINIMUM OF 2500mm ABOVE FFL, MAX. 2800mm, AND TO GIVE ONE HOUR FIRE PROTECTION TO ROOF VOID. CEILING COMPRISING 2x LAYERS OF 15mm BRITISH GYPSUM FIRELINE BOARD FIXED TO UNDERSIDE OF TIMBER ROOF JOISTS, TAPED AND FILL JOINTS.

13. ROOF CONSTRUCTION TO CONSIST OF 250x63mm C24 TREATED TIMBER JOISTS @400 CENTRES FIXED USING STEEL HANGERS TO STRUCTURAL ENGINEERS DESIGN AND SPECIFICATION.

14. ROOF FINISH TO BE SINGLE-PLY MEMBRANE LAID TO A 1:80 FALL WITH TREATED TIMBER FIRTINGS, FLEECE LAYER ON 22mm PLYWOOD TONGUE AND GROOVED DECK, SUITABLY FIXED TO TIMBER JOISTS.

15. ALL ROOF JOISTS TO BE SUITABLY SECURED USING JOIST STRAPS @ MAX. 1800mm CENTRES SPECIFIED BY STRUCTURAL ENGINEER AND SECURED VIA PROPRIETARY FIXINGS IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS.

DOORS:

16. HIGH PERFORMANCE POWDER POLYESTER COATED STEEL DOORS AS APPROVED. PRECISE OPENING DETAILS & SIZES AS SHOWN ON DRAWING. COLOUR RAL 7016. HEAVY DUTY IRONMONGERY TBC WITH ESTABLISHMENT.

17. DOORS TO INCLUDE VENTILATION WHERE REQUIRED VIA STEEL DOOR LOUVRES TO POWER COMPANIES REQUIREMENTS. LOUVRES TO BE HIGH PERFORMANCE PPC STEEL DEMOUNTABLE LOUVRES WITH INSECT MESH INTERNALLY FOR MAINTENANCE AND REPLACEMENT PURPOSES. PERFORMANCE IN ACCORDANCE WITH M&E ENGINEER'S REQUIREMENTS.

18. DOOR REVEALS AND LINTEL SOFFITS TO BE CLOSED VIA 10mm THICK RCM BOARD MECHANICALLY FIXED TO UNDERSIDE OF SOFFIT AND SEALED ACCORDINGLY. TO PROVIDE MINIMUM OF 60 MINUTE FIRE PROTECTION.

LOUVRES:

19. DEMOUNTABLE DOOR LOUVRES TO BE HIGH PERFORMANCE PPC STEEL DEMOUNTABLE LOUVRES WITH INSECT MESH INTERNALLY FOR MAINTENANCE AND REPLACEMENT PURPOSES. PERFORMANCE IN ACCORDANCE WITH M&E ENGINEER'S REQUIREMENTS.

RAINWATER GOODS:

23. 2no. POWDER COATED ALUMINIUM DOWNPIPES, COLOUR RAL 7016

24. POWDER COATED ALUMINIUM GUTTER TO WEST ELEVATION TO SUIT FALL OF ROOF.

25. 18mm MARINE GRADE PLWOOD FASCIA PRIMED AND READY FOR PAINT DECORATION - RAL 7016


EXTERNAL WORKS:

26. ALLOW FOR CONCRETE OR TARMAC HARDSTANDING 1m AROUND PERIMETER OF SUB-STATION.

27. ALLOW FOR MAKING GOOD SOFT LANDSCAPING BETWEEN FENCE PERIMETER AND CONCRETE / TARMAC HARDSTANDING AROUND PERIMETER OF SUB-STATION. CLIENT TO CONFIRM FINISH OF HARD LANDSCAPING. ALLOW FOR 150mm THICK PCC PIN KERB BETWEEN SOFT AND HARD LANDSCAPING.

P03	ELEVATIONS SECTIONS REFS ADDED	19/03/2024
P02	AMENDED AS PER GT COMMENTS	22/06/2023
P01	ISSUED FOR COSTING	22/11/2022

Amendments Date

	Property Directorate 102 Petty France London SW1H 9AJ
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Site **HMP HOLME HOUSE**

Security Classification **OFFICIAL**

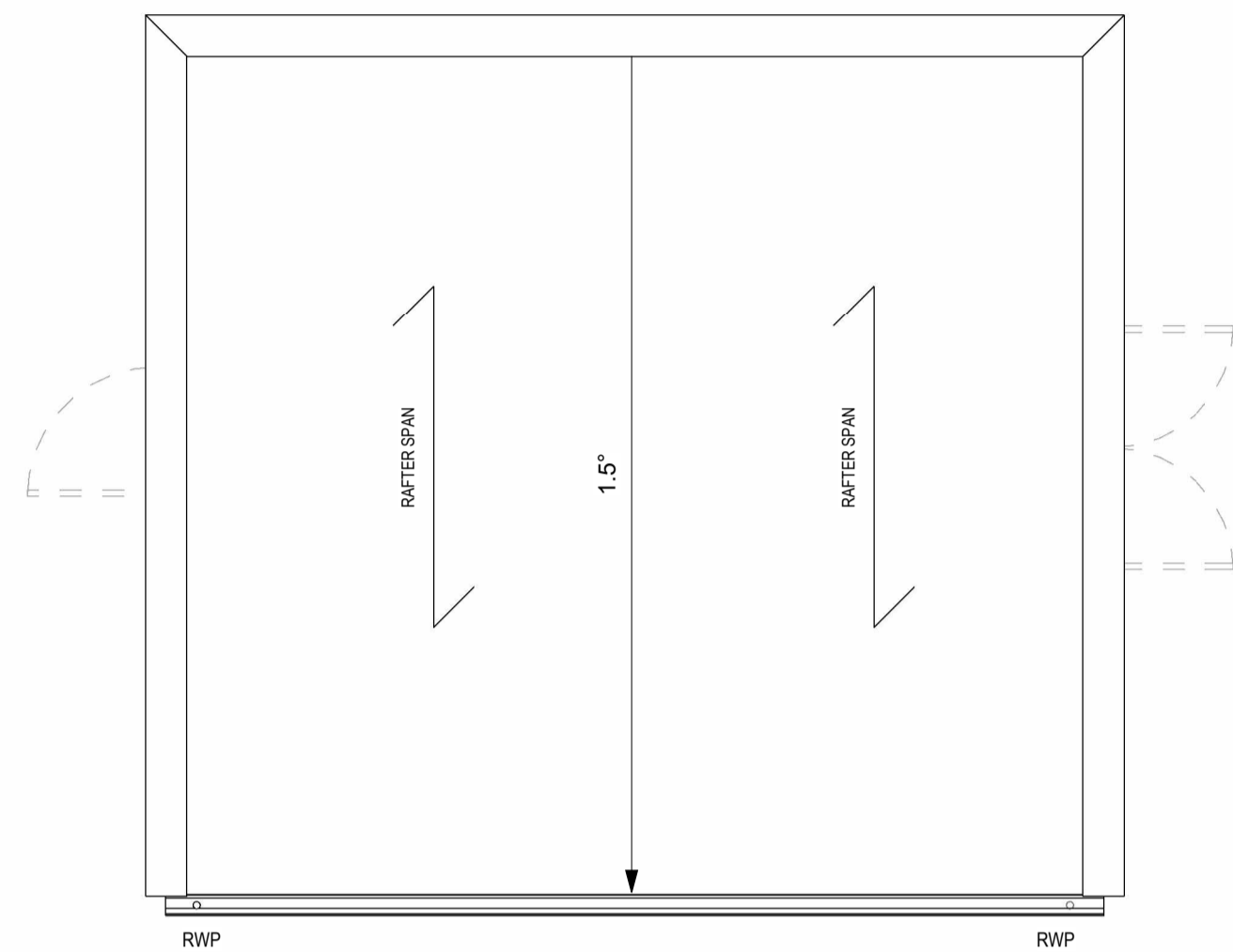
Drawing Number
523154-5243-HL-02-00-DR-A-2005

Project Name
HMP Generic Substation

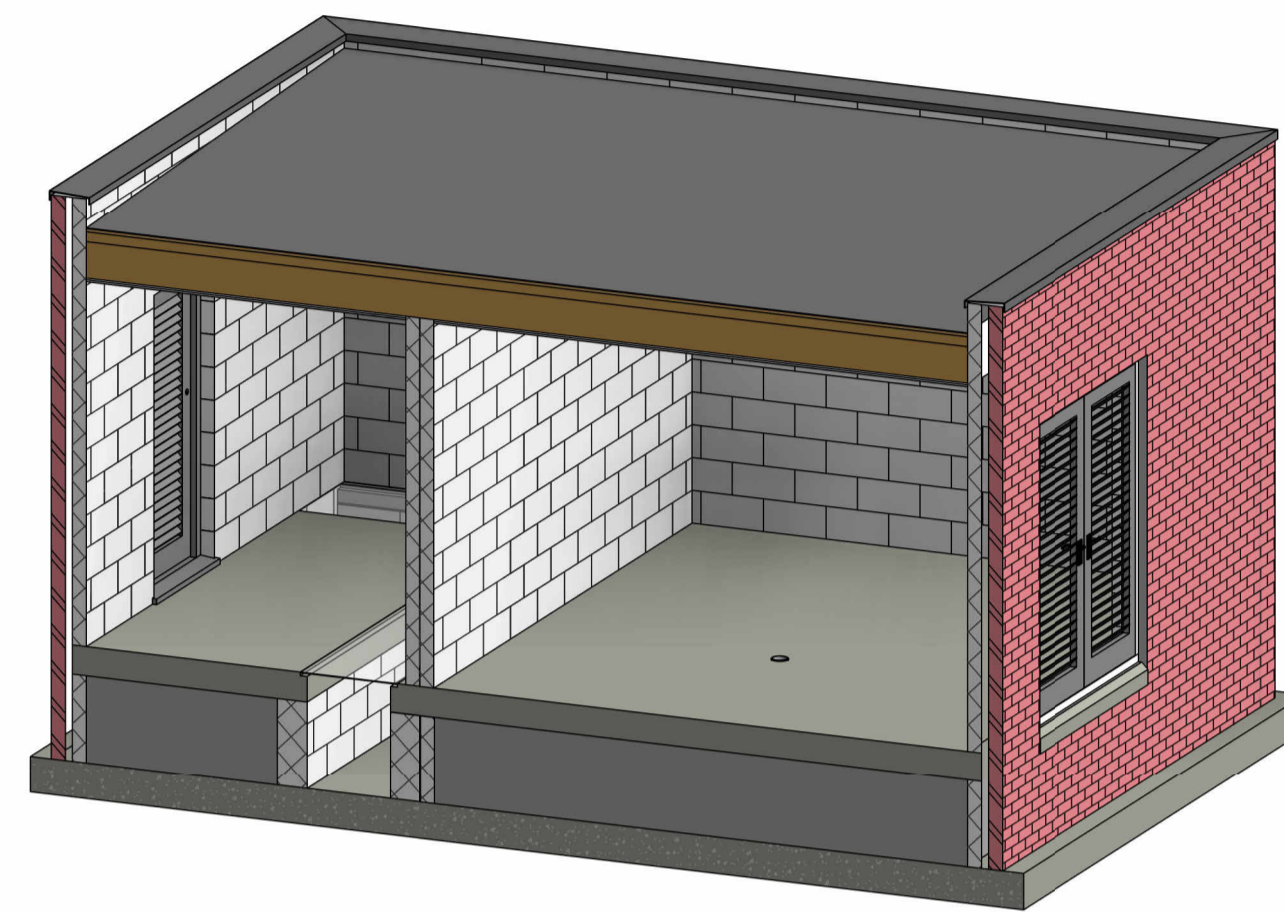
Dwg Title **PROPOSED SUB-STATION GF & ROOF GA PLANS**

E-PIMS	523154	BPRN No. <small>If applicable</small>	5243	Rev Ref P03
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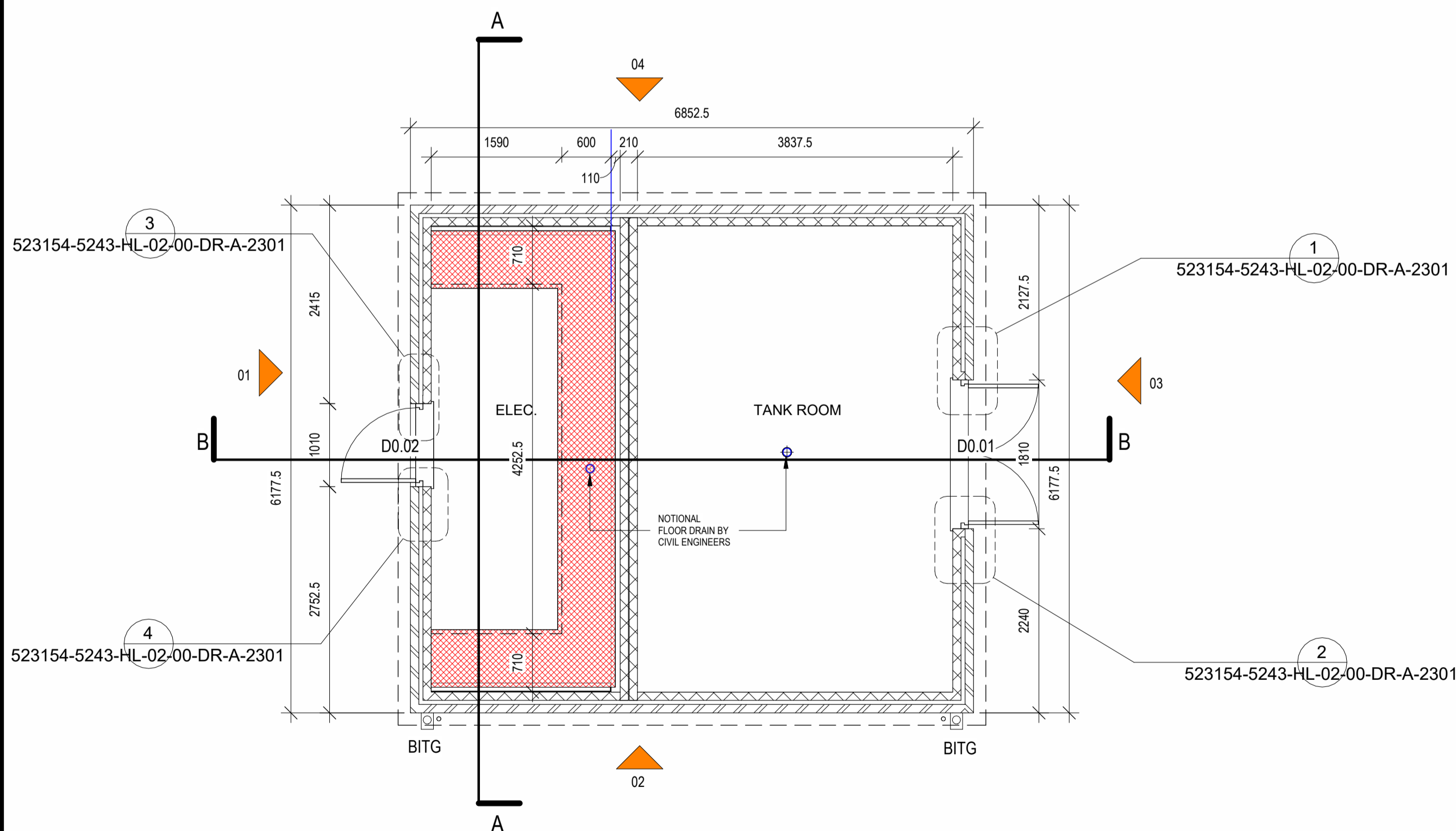
Drawn By: **JG** Date: **16/11/2022** Scale **@ A1** As indicated



PLANT ROOM ROOF GA PLAN
1 : 50

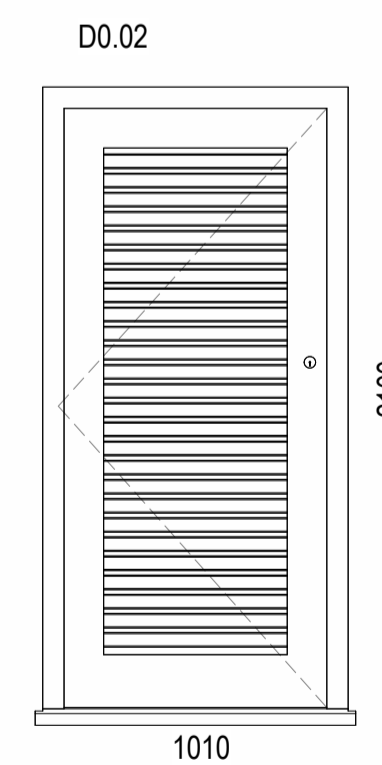
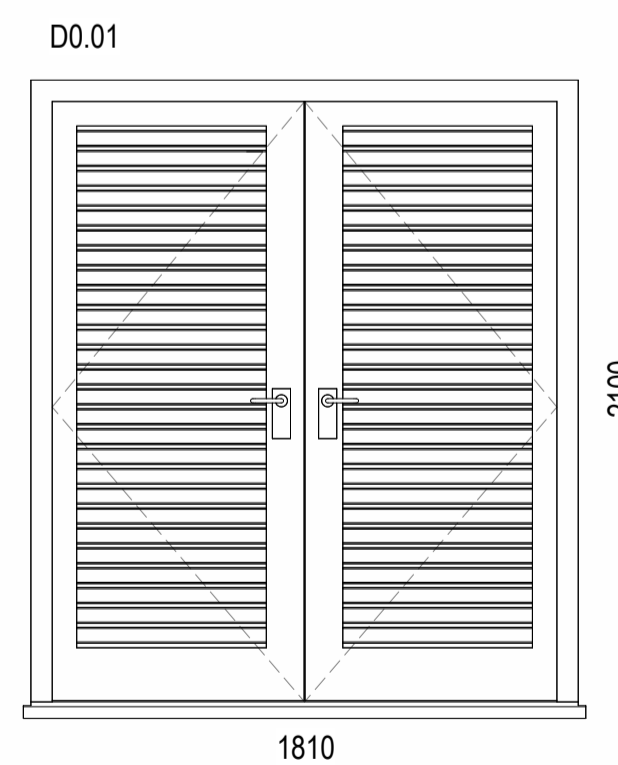


3D CUT VIEW



PLANT ROOM GF GA PLAN
1 : 50

HEAVY DUTY IRONMONGERY
- SUB-CONTRACTOR TO PROVIDE SAMPLES



DOOR ELEVATIONS
1 : 25