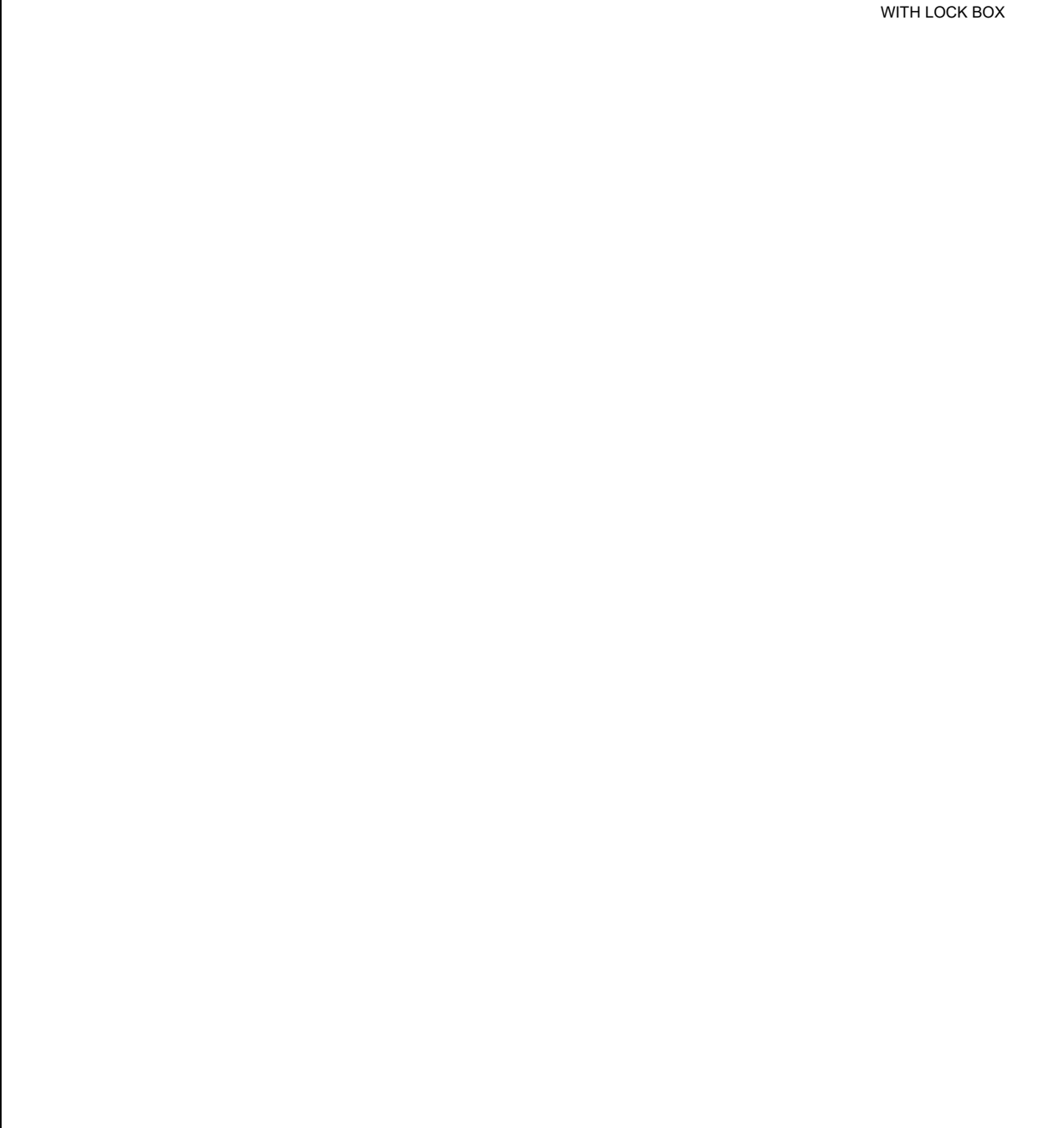
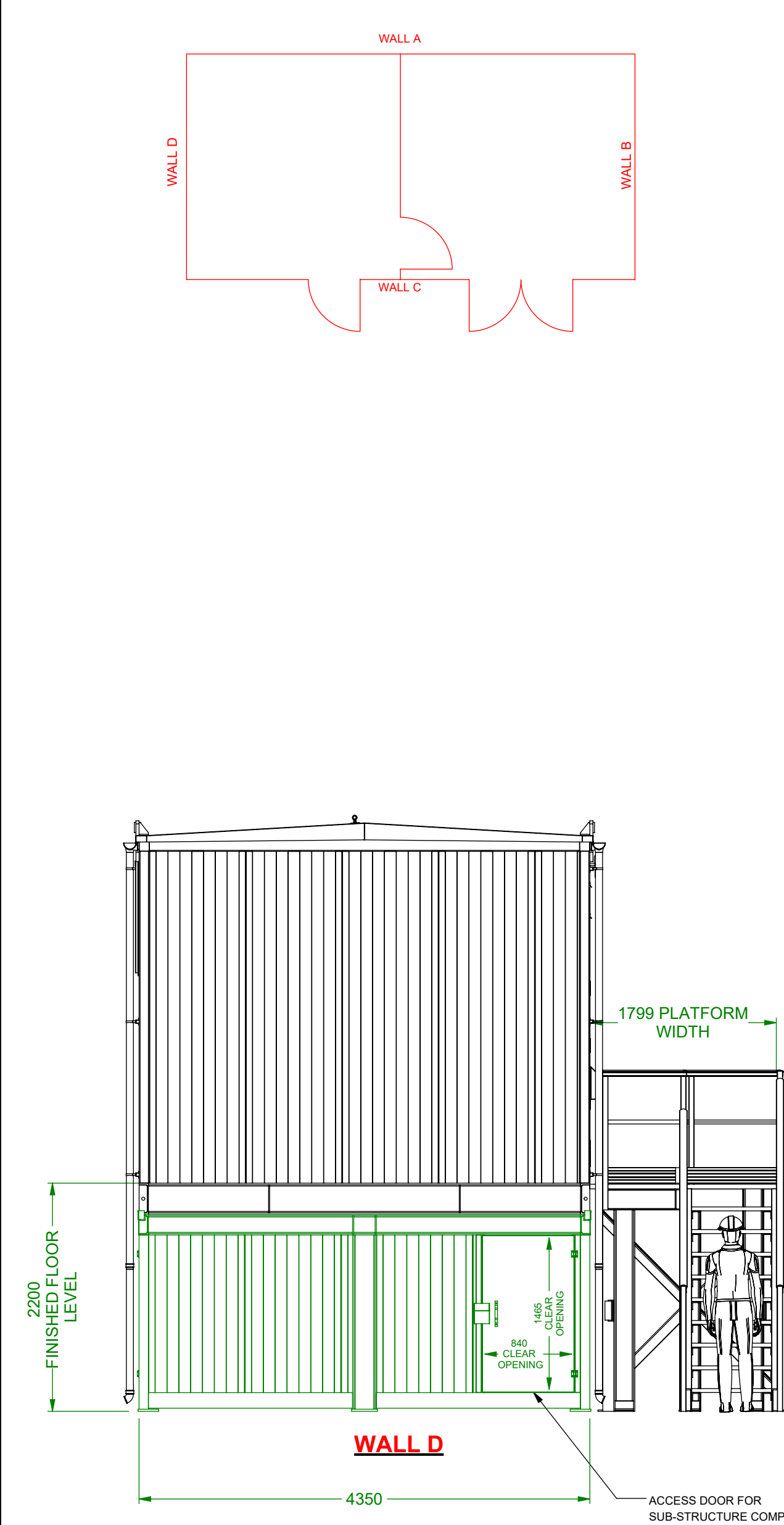
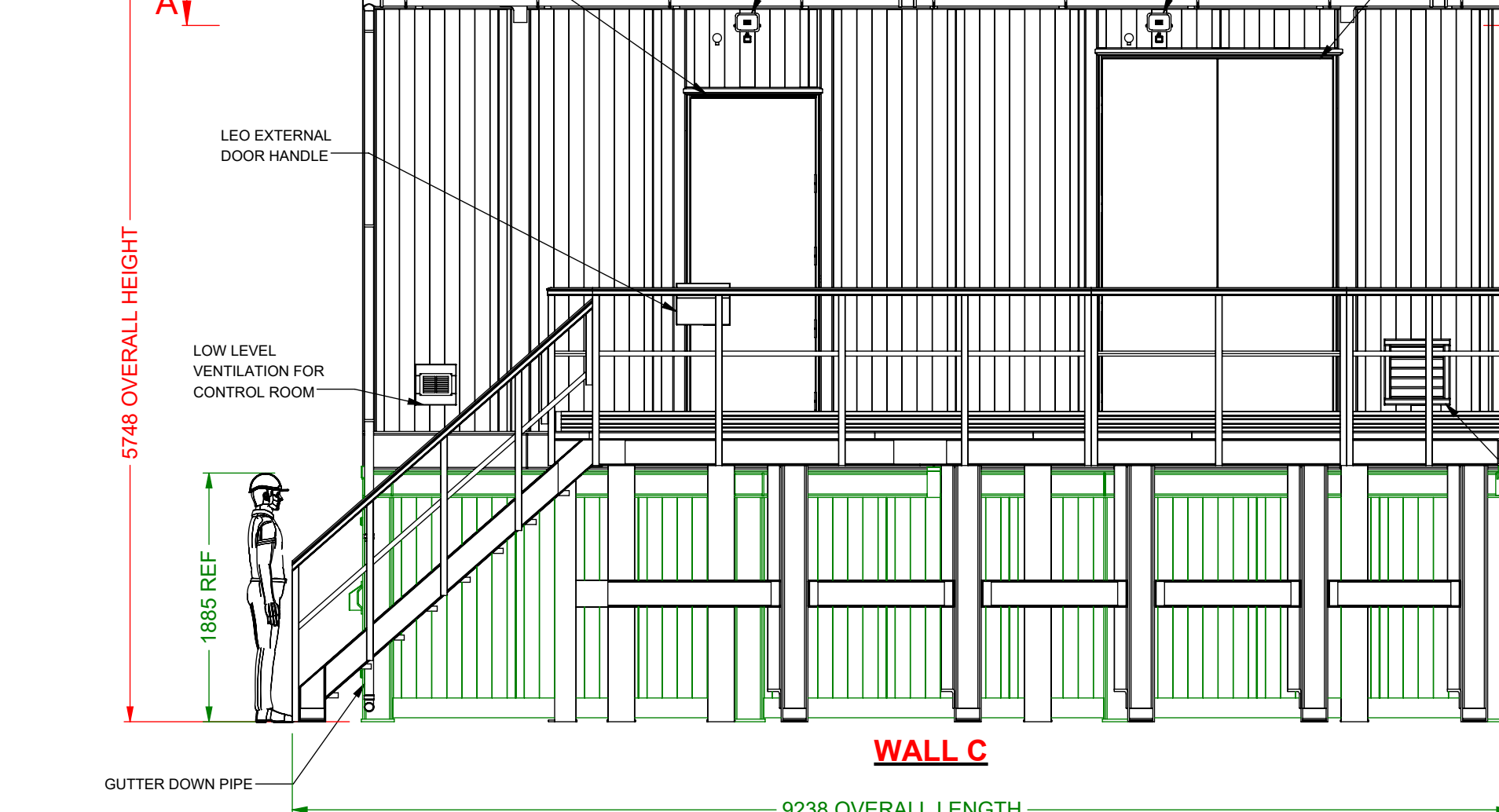


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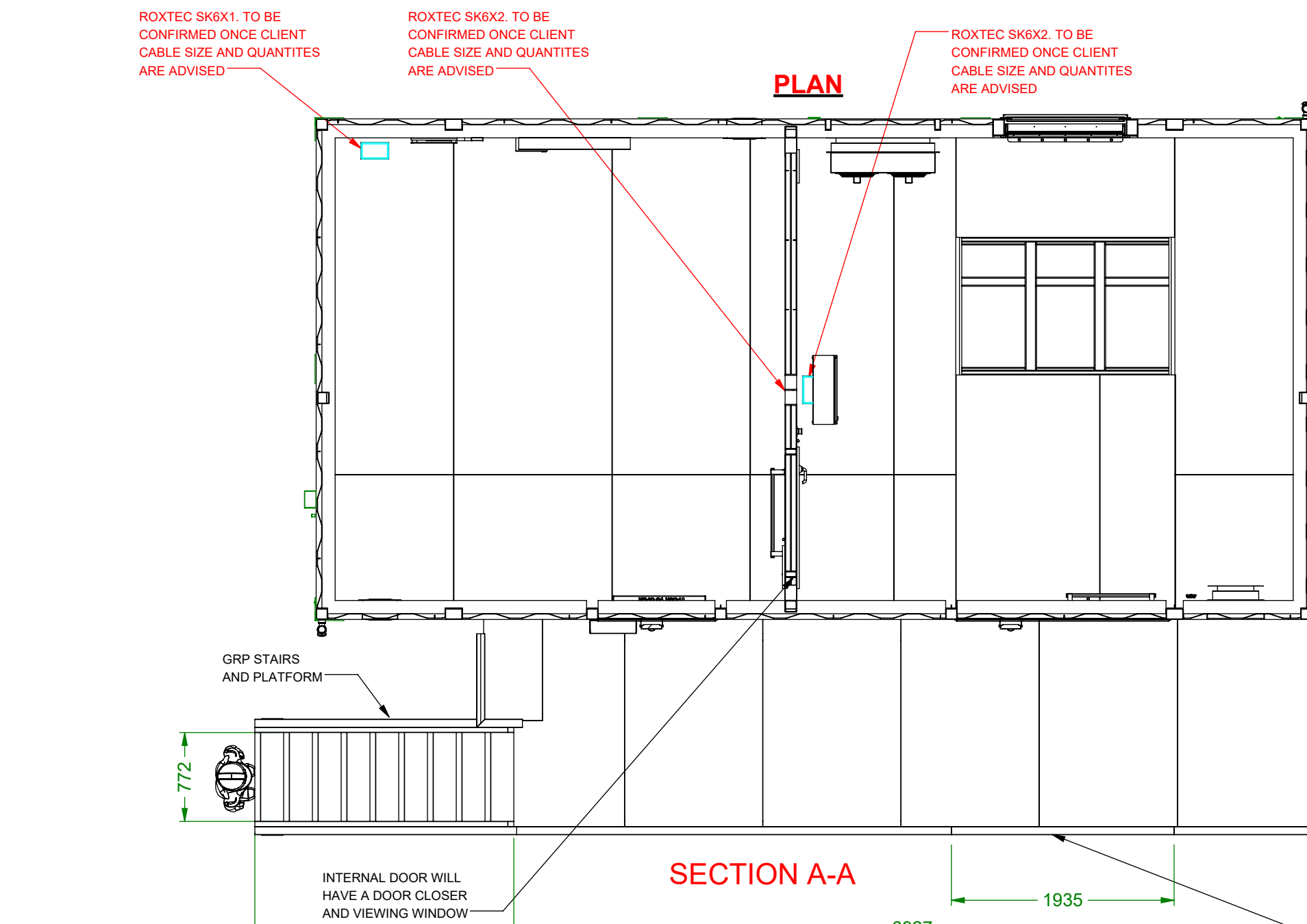


WALL D

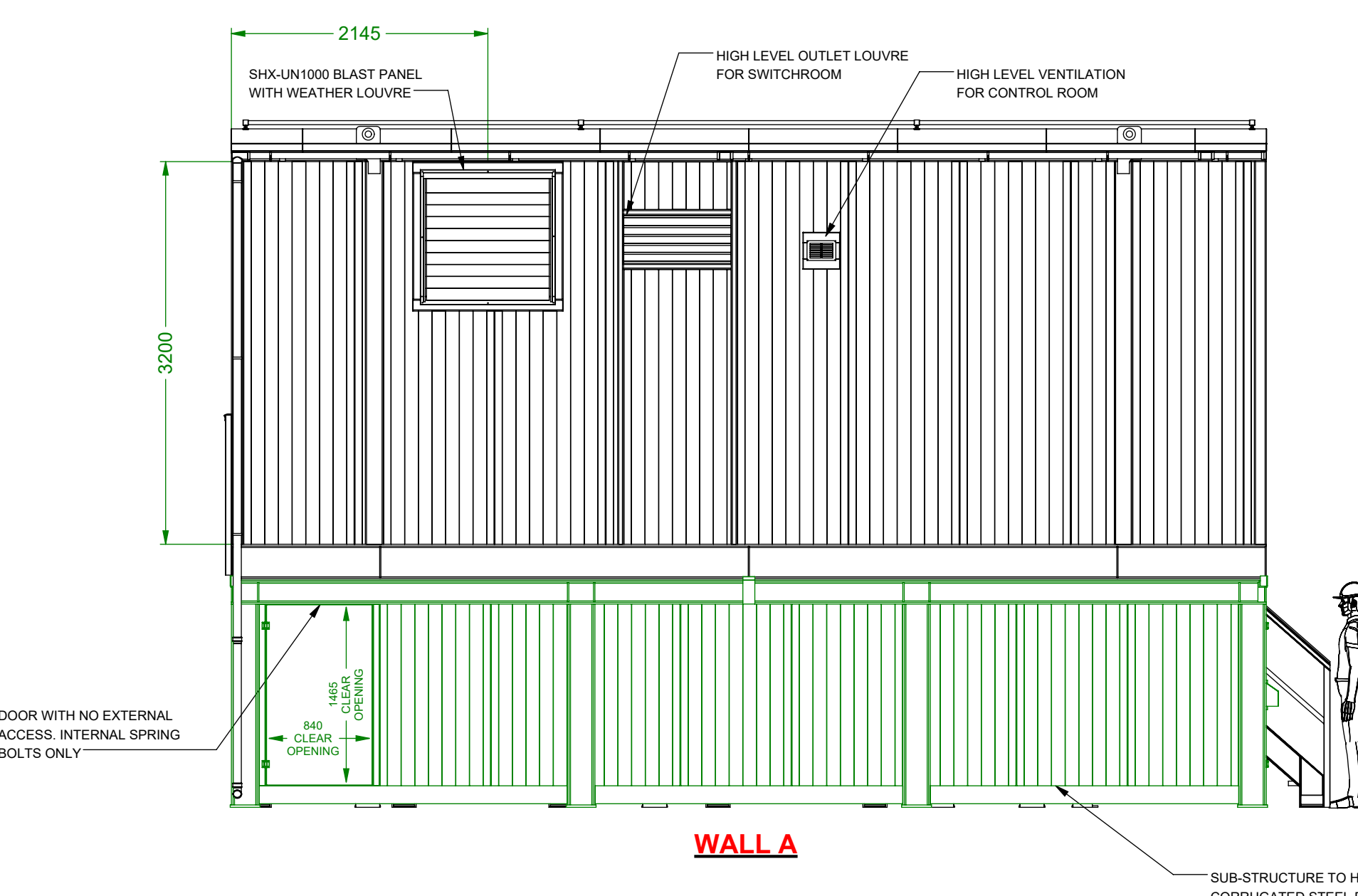
WALL A



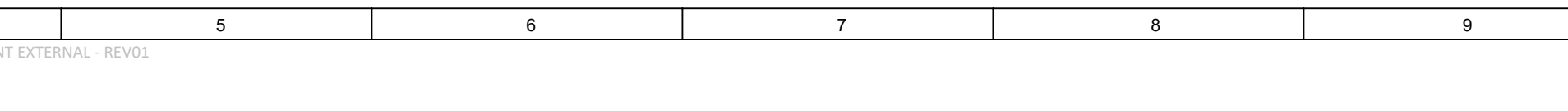
WALL C



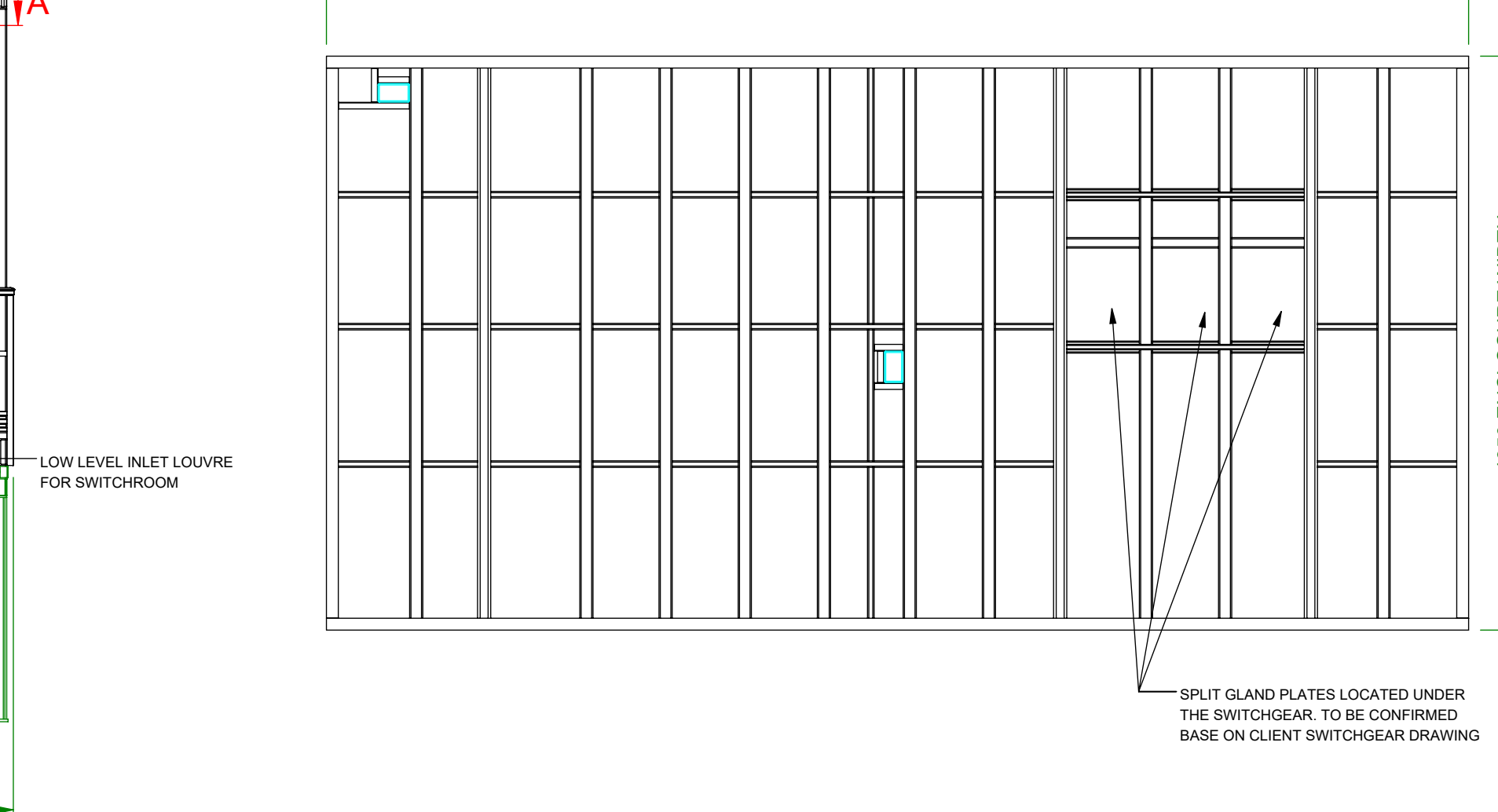
PLAN



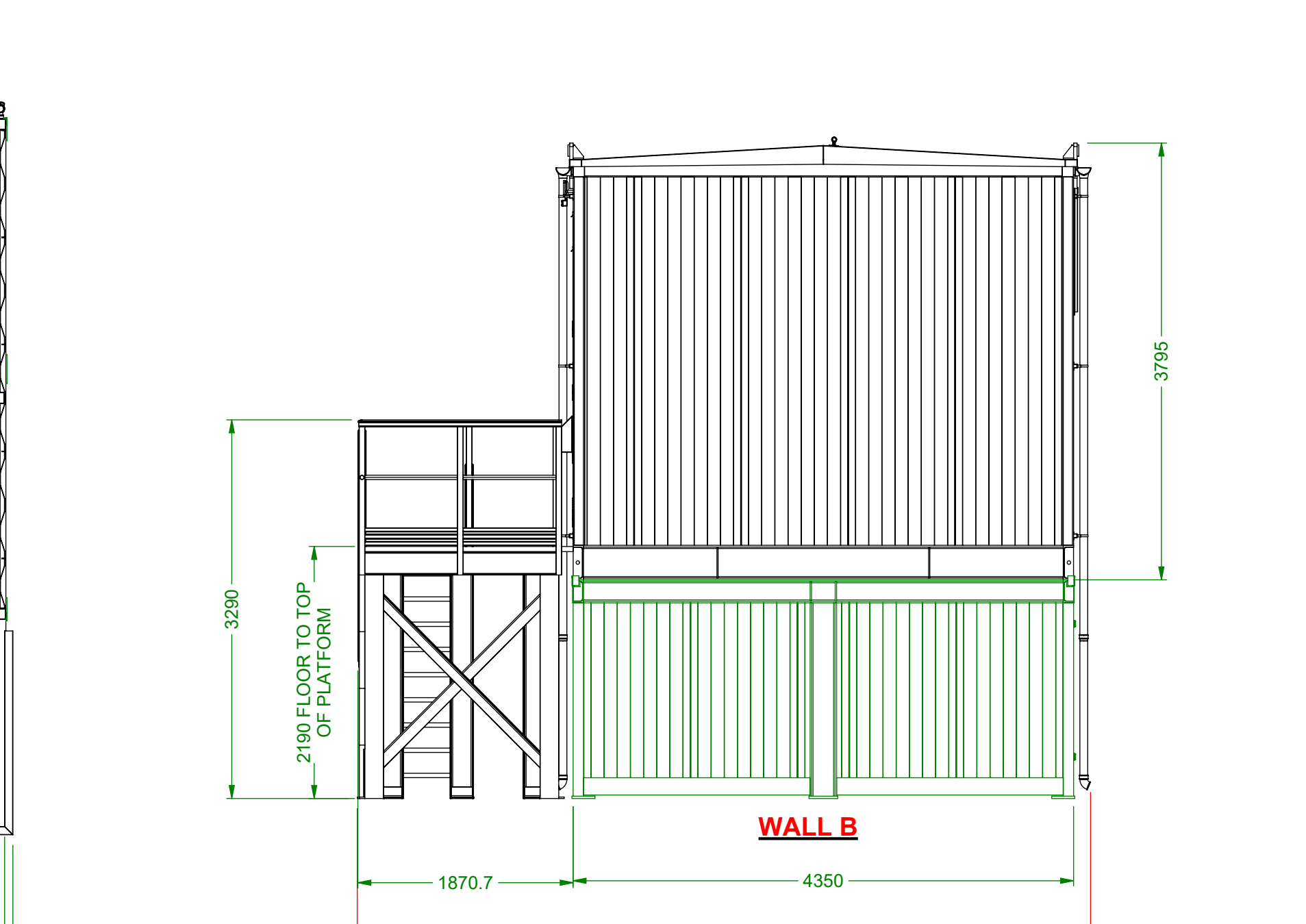
SECTION A-A



WALL B



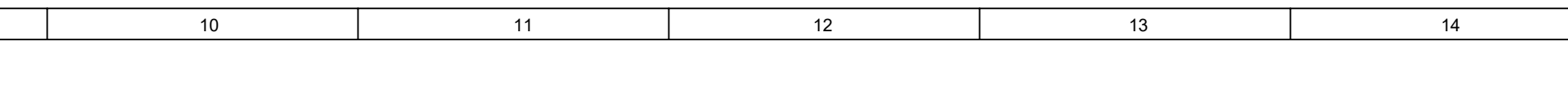
WALL A



WALL D



WALL C



WALL B

NOTES:

**1. Floor Construction**  
Structural steel beams are strategically positioned within the floor to provide minimum floor deflection and support for all floor standing equipment.

**2. External Floor Skin**  
1.2m Galvanised steel under sheeting after insulation. All floor openings will not be covered (if applicable).

**3. Internal Floor**  
5mm Flat steel plate.

**4. External Roof Skin**  
3mm Zintec sheeting - Painted to external paint specification. Pitch approx 3 degrees

**5. Internal Ceiling Skin**  
1.5mm Zintec sheeting - Painted to internal paint specification. Complete with Uni-Strut running the width - flush with the internal ceiling.

**6. External Wall Skin**  
2.5mm Zintec profiled corrugated sheeting - Painted to external paint specification.

**7. Internal Wall Skin**  
2mm mild steel sheeting welded to internal vertical structural supports and internal support sections - Painted to internal paint specification.

**8. Door**  
1 x Single door - Right hand active, opening outwards, 3 point locking. All external fittings will be stainless steel, internal panic bar. Door fitted with stay. Approx Inside Frame Opening: 900mm Wide x 2480mm High.  
  
1 x Double door - Right hand active, opening outwards, 3 point locking. All external fittings will be stainless steel, internal panic bar on active leaf only. Non-active leaf will be fixed shut from the inside. Both leaves fitted with door stay. Approx Inside Frame Opening: 1680mm Wide x 2780mm High. Double door has no external handle  
  
Both doors are non compliant fire doors due to having door stays fitted

**9. Ventilation**  
Switch Room  
2 x Outlet extractor fan complete with a louvre, back draft damper and fire curtain on an N+1 operation  
Control Room  
1 x Inlet louvre complete with an internal fire curtain  
To be confirmed based on client confirmation on heat gains from equipment  
  
Equipment Heat Gains total: **Client TBC**

**11. Earthing**  
2 x internal earth bosses located next to 2 x internal 6 way earth bars

**12. Paint Specification**  
External:  
BS4800 14 C-39 Holly Bush Green, Semi-Gloss  
Internal: White  
Floor - Black  
Walls/Ceiling - White

**13. Cable Entry**  
2 x Roxtec SK6x1 located in the floor, 1 per room. 1 x Roxtec SK6x2 located in the internal wall between the two rooms. Client to confirm cables sizes and quantities through each Roxtec to enable ADE to provide Roxtec packing plan. See drawing for locations

**14. Weight:**  
Enclosure approx weight (ADE supply only): 16.5 Tonnes

**15. Blast Panel**  
1 x SHX-UN 1000 Blast panels with external weather louvres

**16. Notes**  
Positions of all electrical equipment under ADE supply will be confirmed and finalised on the electrical layout.  
Client Switchgear panels to be fixed down by bolting down into the uni-strut which is sunken and finished 2mm above finished floor level.  
Client to issue project specific switchgear and equipment drawings. Siemens NX Plus 33kV switchgear is shown 60 Minute fire resistance by design.

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|------|-------------|-----|-------|------------|
| 01   | FIRST ISSUE | CW  | RB    | 30/11/2021 |
| REV: | DESCRIPTION | BY: | CHKD: | DATE:      |

REVISIONS

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CLIENT:  
NORTHERN POWER GRID

PROJECT NAME:  
OAK LANE SUBSTATION

DRAWING TITLE:  
GENERAL ARRANGEMENT - EXTERNAL

DRAWING NO:  
43241-00-01

ASSOCIATED DRAWINGS:  
43241-00-01

|                |                   |                     |                         |                 |
|----------------|-------------------|---------------------|-------------------------|-----------------|
| DRAWN:<br>CW   | CHECKED:<br>RMB   | APPROVED:<br>JA     | DATE:<br>30/11/2021     | REVISION:<br>01 |
| SCALE:<br>1:45 | SHEET SIZE:<br>A1 | SHEET NO:<br>1 of 1 | STATUS:<br>FOR APPROVAL |                 |

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