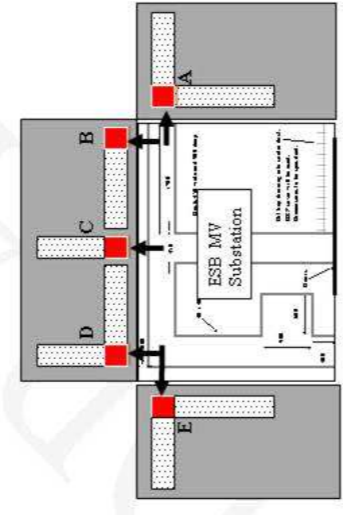


CONTRACTOR MUST REFER TO THE LATEST ESB NETWORKS MV SUB-STATION SPECIFICATION AND GUIDELINES DRAWING IS DESIGN INTENT ONLY AND IS TO BE READ IN CONJUNCTION WITH THE CIVIL AND SERVICES ENGINEERS DRAWINGS AND SPECIFICATIONS.
NOTE THIS SUB STATION HAS A CUSTOMER SWITCH ROOM.
SWITCH ROOM SIZE TO BE APPROVED BY M&E ENG.

SUMMARY OF REVISED ITEMS TO SPECIFICATION.
IF A SUBSTATION IS INTEGRATED INTO A LARGER BUILDING, THEN A SMOKE ALARM MUST BE FITTED TO THE SUBSTATION. THE SMOKE ALARM MUST BE OBERGED FROM THE APPROVED SUPPLIER WITH THE DETECTOR HATCH FITTED.
OUTER WALL LEAF SHOWN CLEARLY WHERE THERE ARE ANY EXTERNAL WALLS TO THE SUBSTATION.
CLOSE THE CAVITY AT THE DOOR OPE BY RETURNING THE INNER LEAF TO THE OUTER LEAF. THIS BOTH CLOSES THE CAVITY AGAINST FIRE AND PROVIDES A SOLID PURCHASE FOR THE DOOR FRAME.
CLOSE THE CAVITY AT DOOR HEAD BY CAST LEVEL ON TWO 215 WIDE LINTELS.
FIT VERTICAL DPC ALL AROUND DOOR SIDES AND HEAD.
ROOFING/CAST IN SITU CONCRETE SPECIFIED MORE CLEARLY (PRECAST SLABS, PERMANENT FORMWORK ARE NOT ACCEPTED).
THE OVERHANG ROOF LISTED AS THE PREFERRED OPTION (NOT THE PARAPET ROOF SHOWN IN THE PHOTO ON PAGE 6 OF THE ABOVE).
16MM STEEL TO BRIDGE THE CABLE DUCTS ON THE MIDDLE DUCT AND ON THE REAR RIGHT (THIS IS TO EARTH THE STEEL IN THE FLOOR FOR SAFETY OF OPERATION STAFF).
THE CABLE DUCTS TO BE FITTED TO THE SUBSTATION ROOM TO THE CUSTOMER ROOM SMALL.
KESZAPAR CEMENT TO BE USED FOR THE DOOR OPE AND THE DOOR OPE TO BE FITTED TO THE DOOR.
AN OPTION OF ANOTHER ROOF SEALING LAYER (e.g. TORC-ON FELL) VERSUS THE OLDER REQUIREMENT OF ASPHALT.
INCLUSION OF A DSB RAIL OVER THE STEEL DOORS WHERE THE DOOR IS FLUSH WITH THE FRONT WALL OF LARGER BUILDING.

Typical layouts: see given in Fig. 6 and see for information: only



Customers Switchroom possible positions

Customers Main Circuit Breaker possible positions A...E

Other Customer equipment possible positions

Possible direction of customer feeding cables

Fig. 6 Typical alternatives for the location of customer switchrooms in relation to the ESB MV Substation

Freerstanding MV substation adjacent a customer switchroom

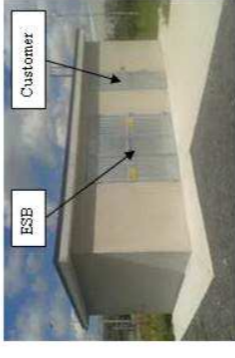


Fig. 2 Freerstanding MV substation adjacent a customer switchroom

MV Substation incorporated into a large building development



Fig. 3 MV Substation incorporated into a large building development

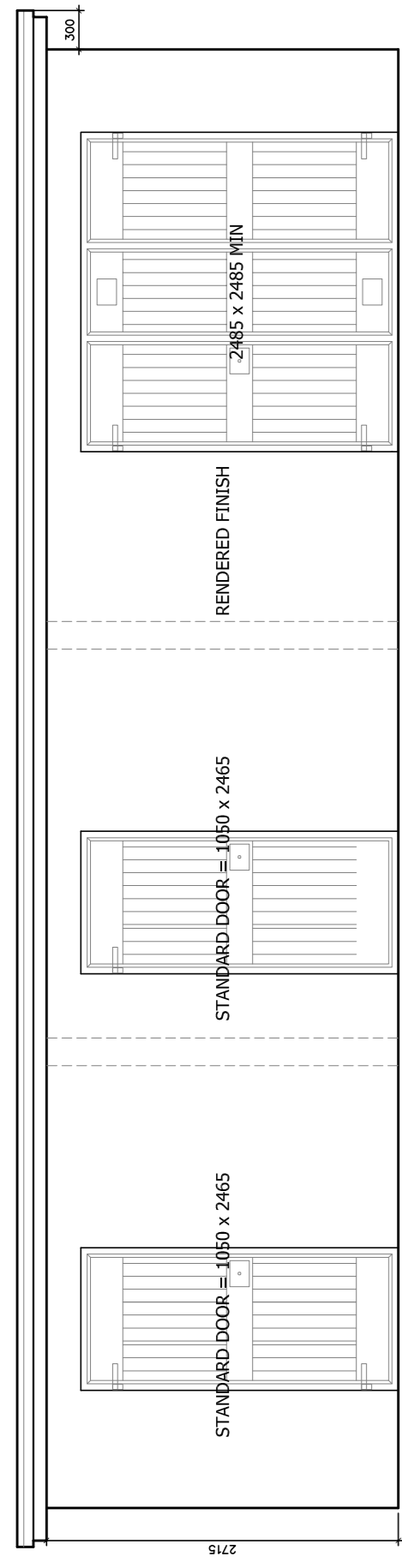
OUTLINE SPECIFICATION (Ref to ESB documents)

ROOF:
REINFORCED CONCRETE ROOF WITH SCREED LAID TO A FALL FINISHED WITH ASPHALT WATER PROOFING

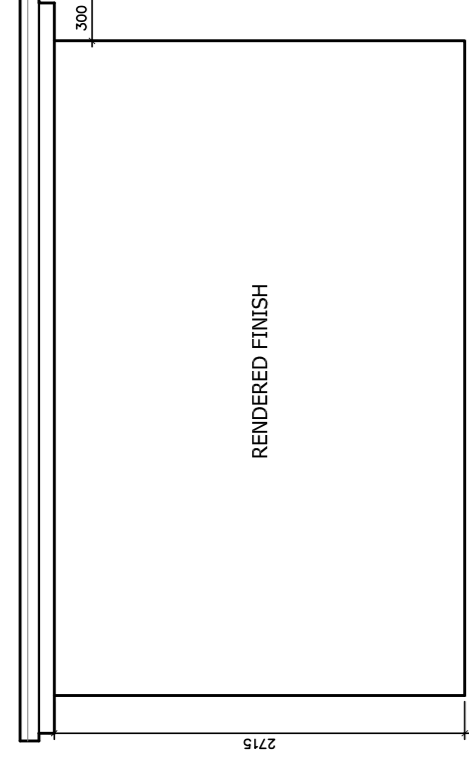
WALLS:
215 SOLID BLOCKWORK INNER LEAF ON FLAT (PAINTED) WITH CAVITY AND 100mm OUTER LEAF FINISHED WITH 20mm SAND & CEMENT RENDER (PAINTED NAP FINISH).

FLOOR:
REINFORCED CONCRETE SLAB (SEALED) ON 1000 GAUGE DPM ON BLINDED COMPACTED HARDCORE.

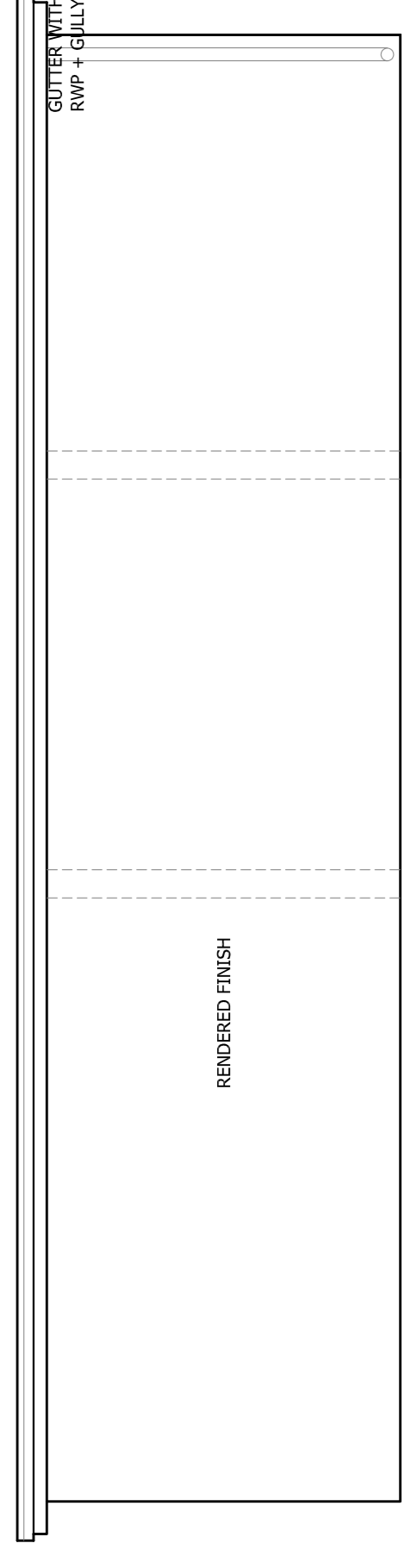
DOOR(S):
GALVANISED STEEL DOORS BY SPECIALIST (PAINTED).
LEVEL ACCESS WITH 3M UNIMPEDED ACCESS.



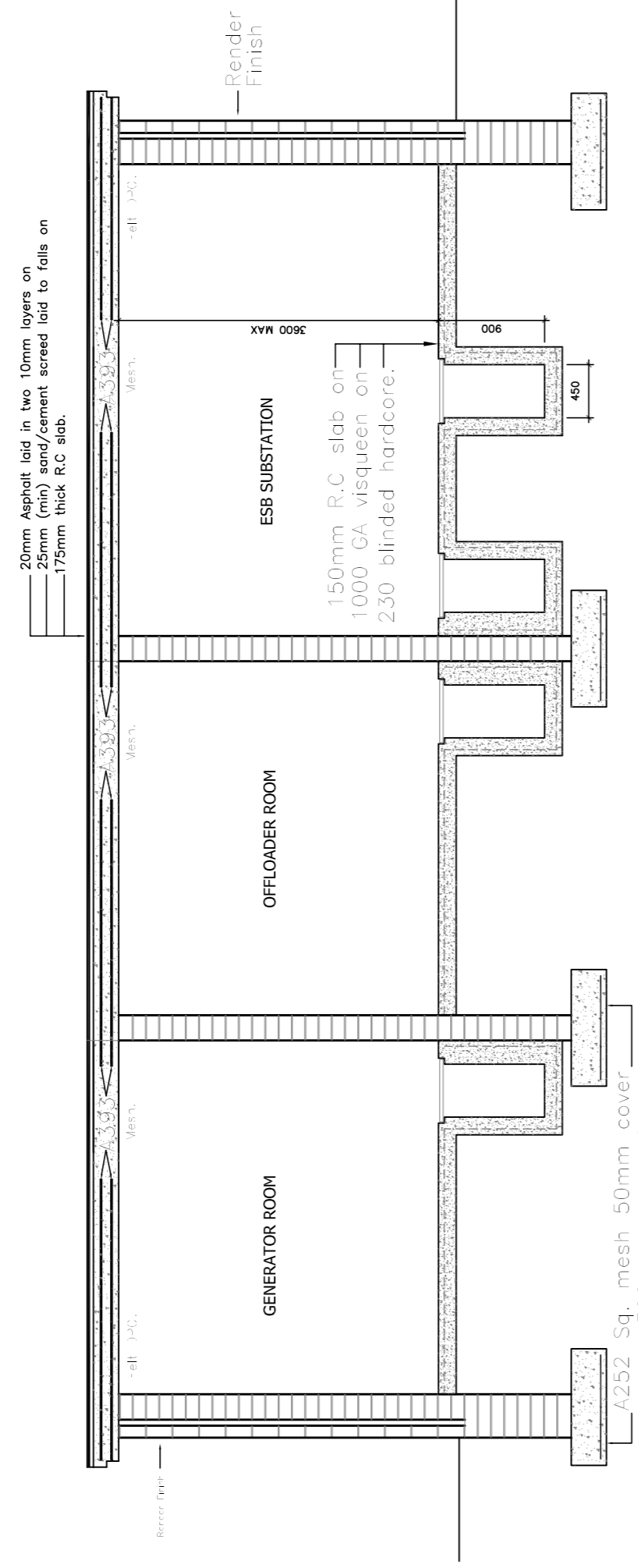
FRONT ELEVATION (1:50)



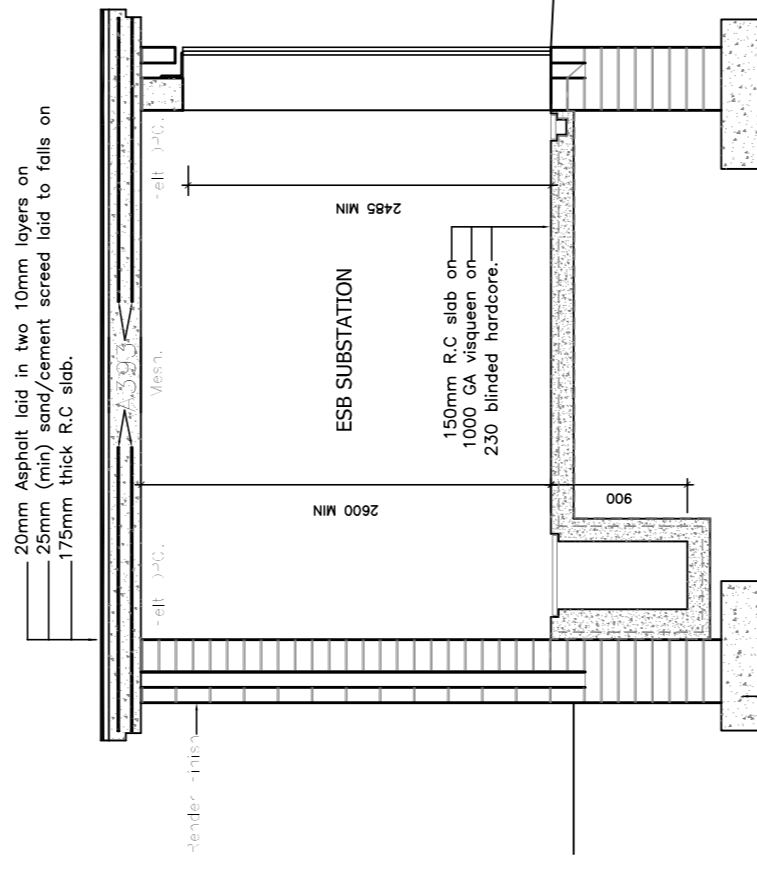
SIDE ELEVATION (1:50)



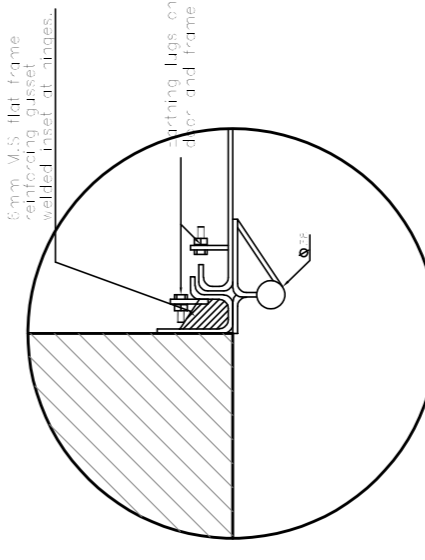
REAR ELEVATION (1:50)



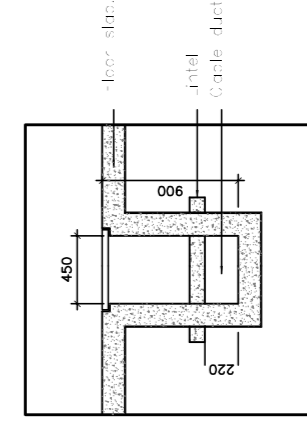
LONGITUDINAL SECTION A-A (1:50)



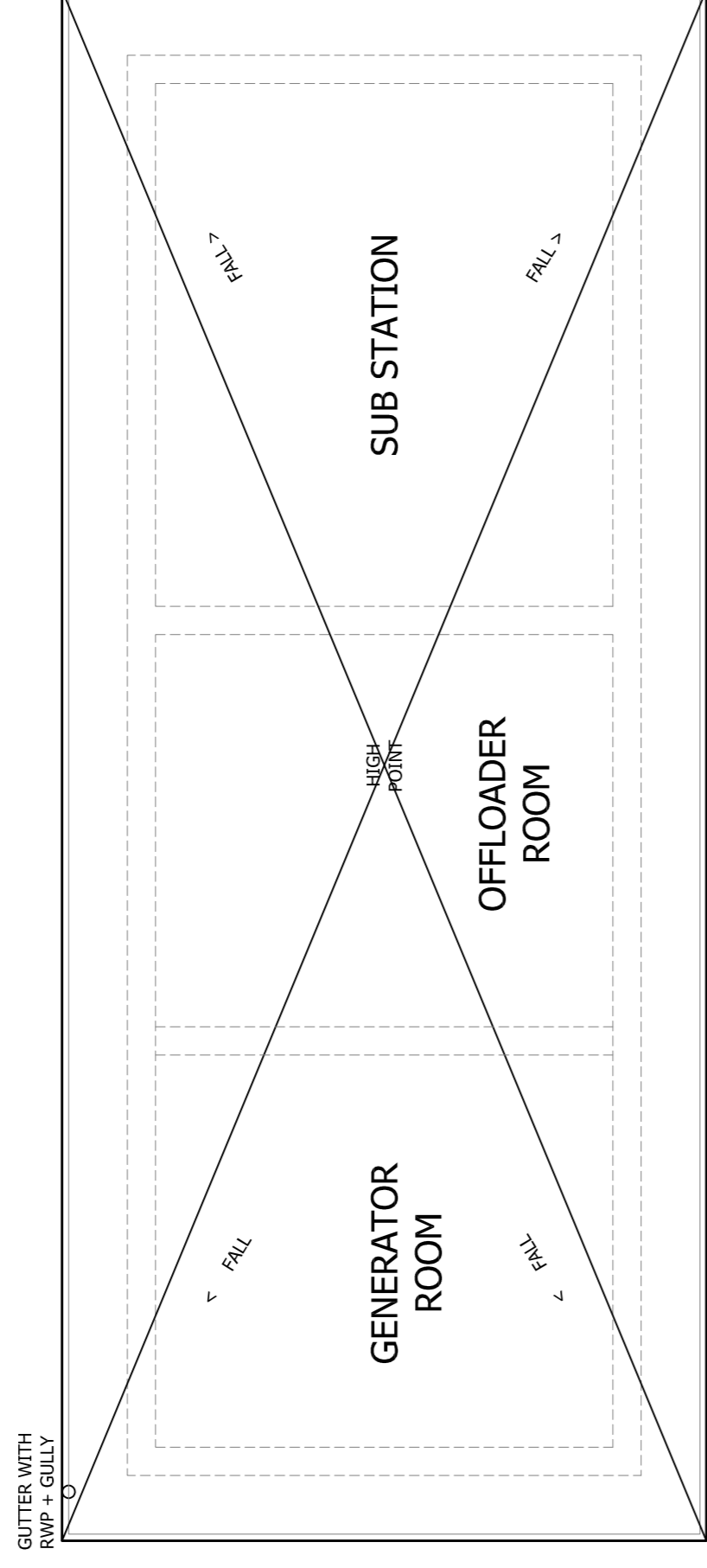
CROSS SECTION B-B (1:50)



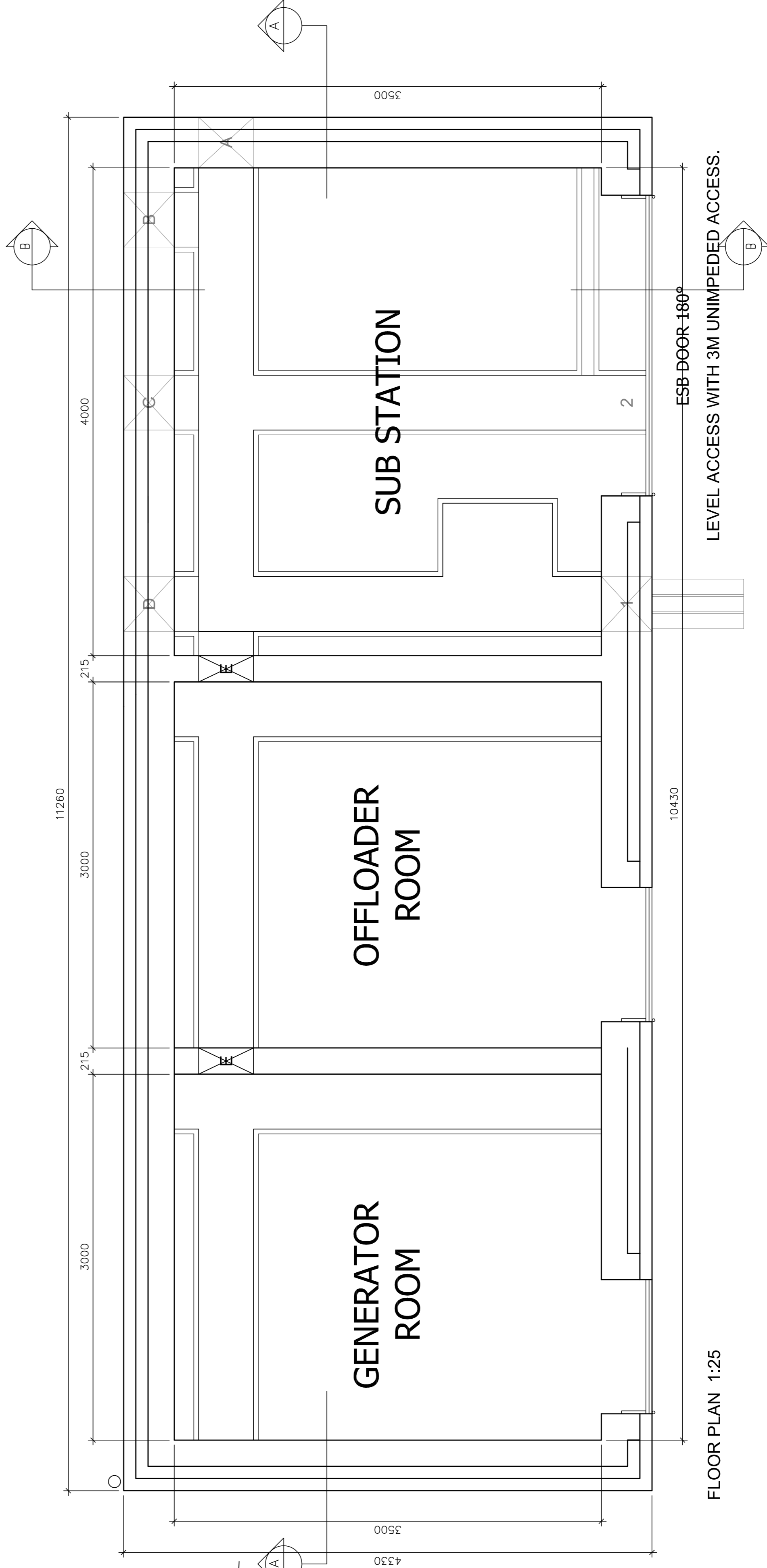
DOOR JAMB DETAIL



DUCT SECTION C-C



ROOF PLAN (1:50)



FLOOR PLAN 1:25

PROPOSED SUB-STATION

Notes:	Revision	Initials	Date	Description
<p>This Drawing is Copyright. Do Not Scale – Use Figured Dimensions Only. Refer to Structural Engineers Drawings and Specifications for all Structural Work. Drawings to be read in conjunction with all other Consultants Drawings and Specifications.</p>	REV A:			
	REV B:			
	REV C:			
	REV D:			
	REV E:			
	REV F:			

Revision	Initials	Date	Description
REV U:			
REV V:			
REV W:			
REV X:			
REV Y:			
REV Z:			
REV AA:			
REV BB:			
REV CC:			
REV DD:			

Client:	Congjill Property a Tri Limited
Project:	Site 10 SHD– Northern Cross
Description:	BLOCK 10 – ESB SUBSTATION – PLANS – SECTIONS – ELEVATIONS
Date:	30.06.2022
Sheet:	A1
Scale:	As Shown
By:	MF
Rev:	
Job No:	1521
Stage:	SHD-PLANNING
Proj. No:	1521-JSA-BLK10-ZZ-B1-DR-A-1209

J S A Architects
 CHARTERED ARCHITECTS 10 BOOBERSTOWN AVENUE,
 BLACKROCK, DUBLIN 14, IRELAND
 E-MAIL: jsa@jsarch.ie WEB: www.jsarch.ie