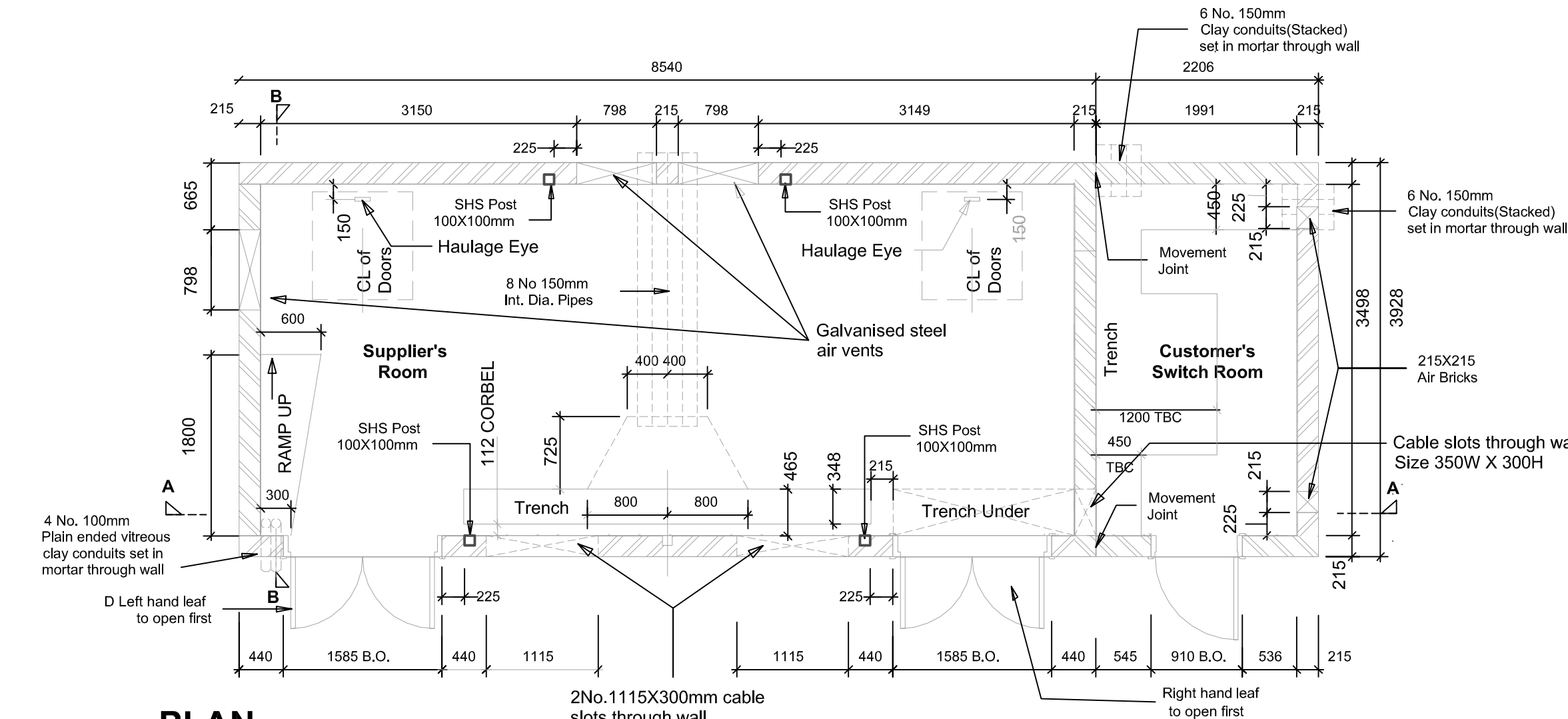
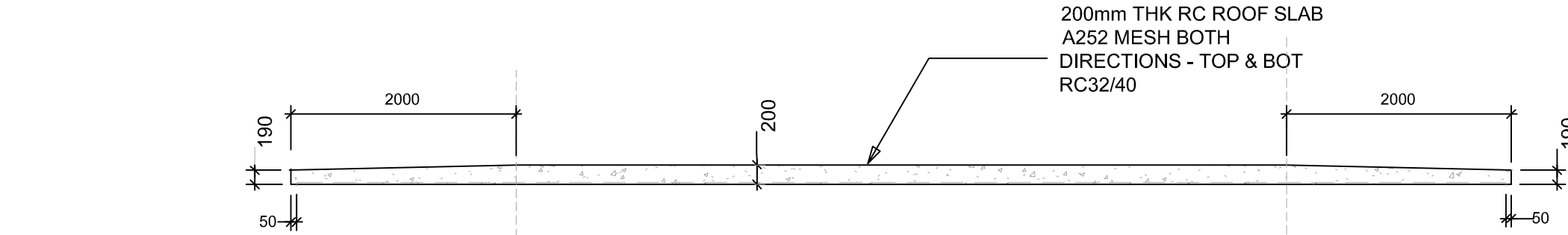




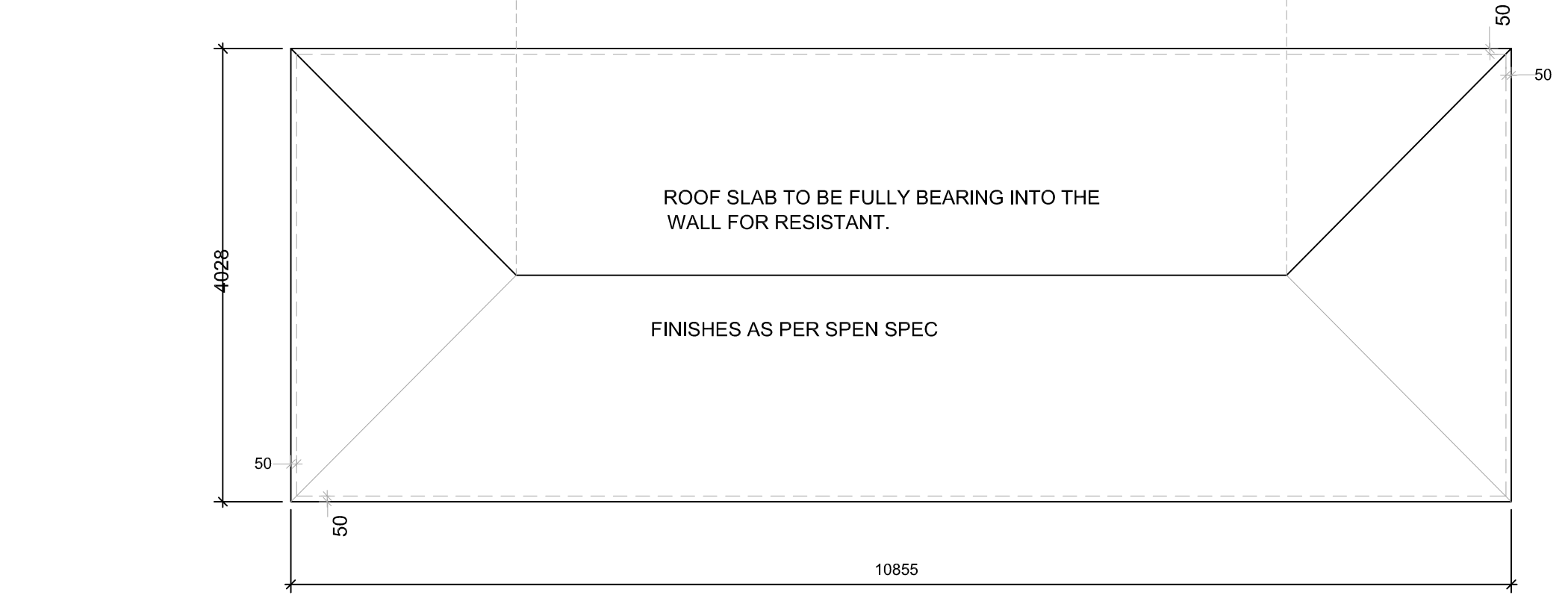
PLAN

Scale 1:50



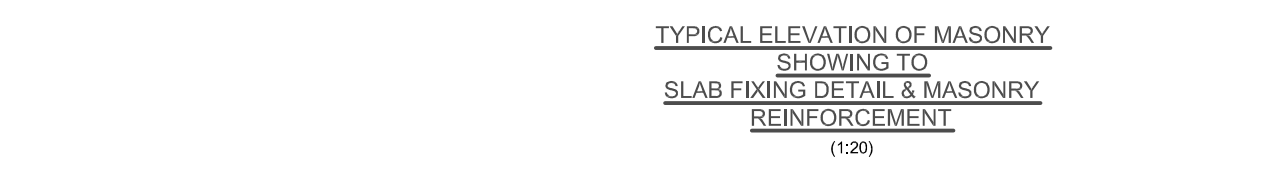
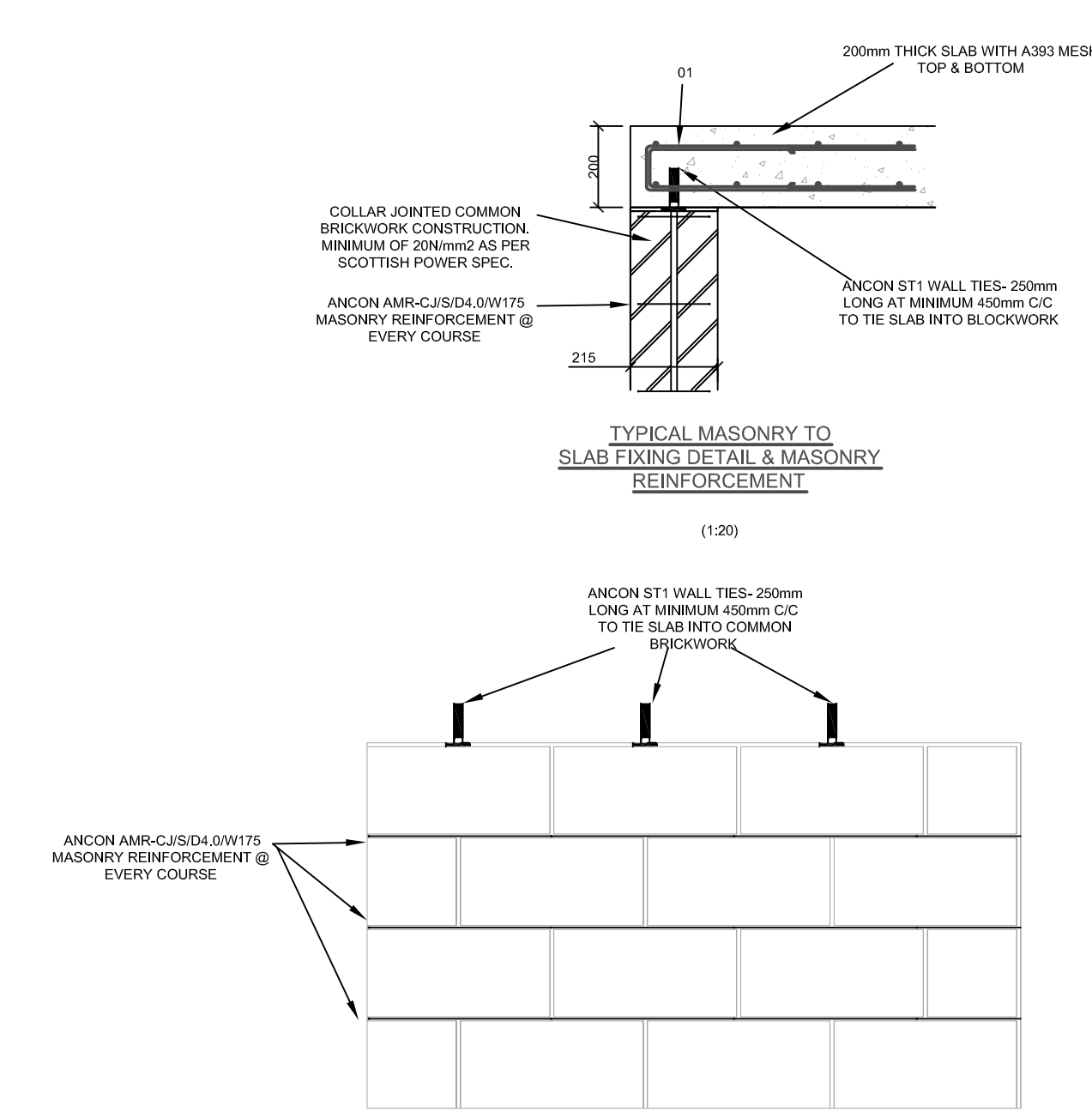
ROOF SECTION

Scale 1:50



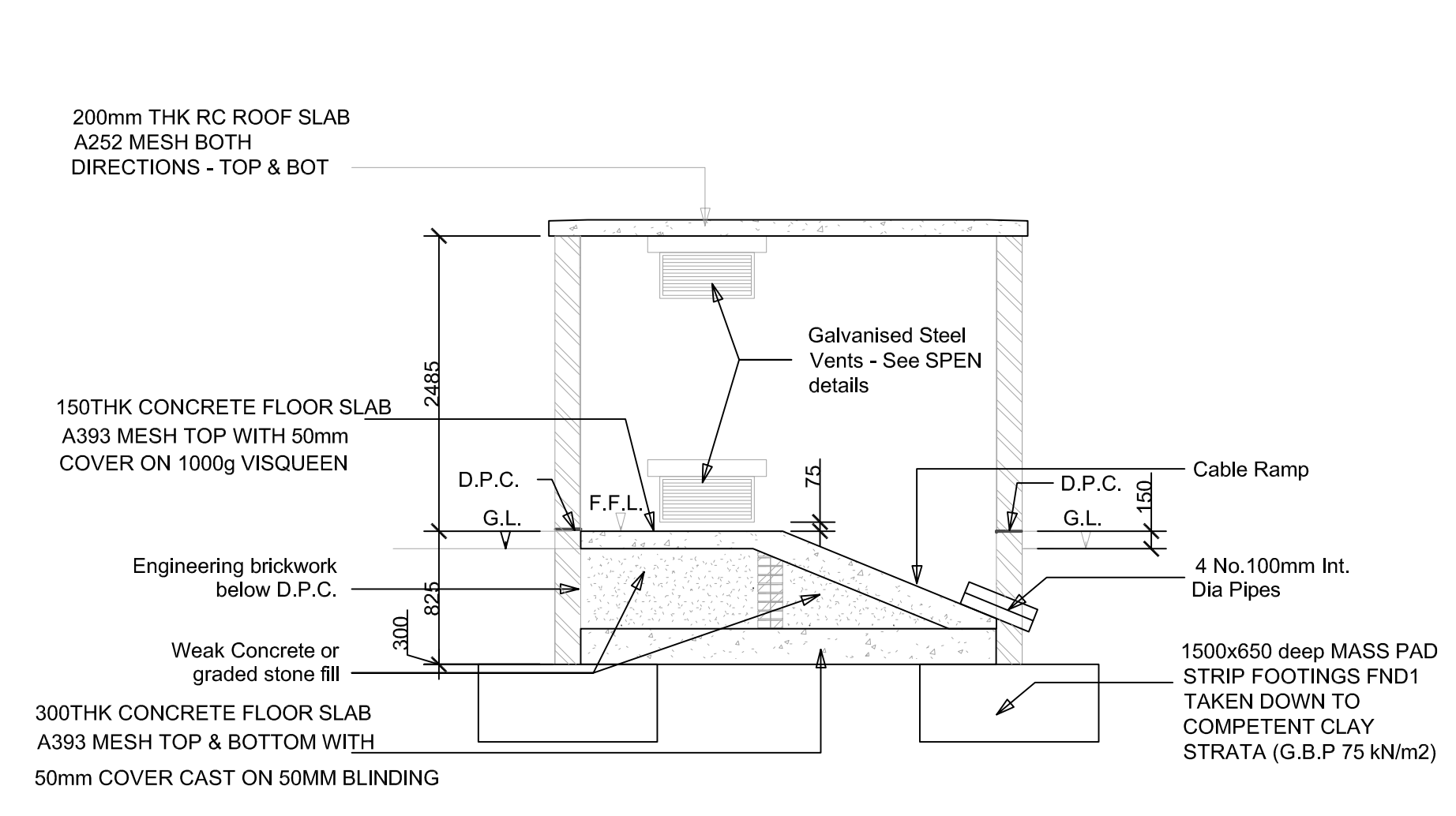
ROOF PLAN

Scale 1:50



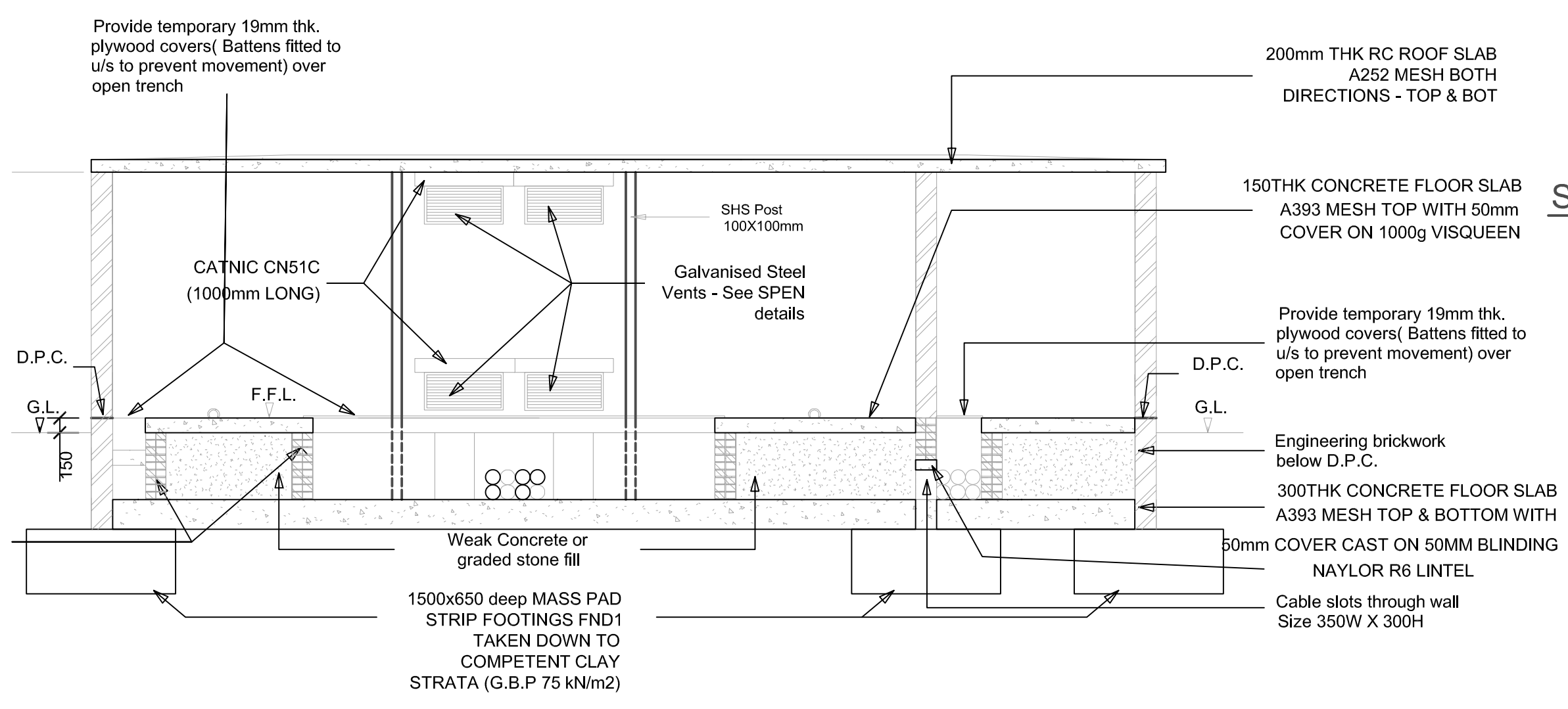
HAULAGE EYE DETAILS - 2No. REQUIRED
(SEE SPEN DRAWING FOR LOCATION DETAILS)

FOR POSITIONING OF THE SUBSTATION - REFER TO SITE LAYOUT DRAWING - FINALISED POSITION SUBJECT TO CONFIRMATION OF DEPTHS OF ANY EXISTING SERVICES. SUBSTATION TO BE POSITIONED TO AVOID THE NEED FOR DIVERSION OF EXISTING SERVICES - TO BE AGREED ON SITE.



SECTION B-B

Scale 1:50



SECTION A-A

Scale 1:50

GENERAL NOTES

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL, ENGINEERING DRAWINGS AND SPECIFICATIONS.

DO NOT SCALE OFF THIS DRAWING.

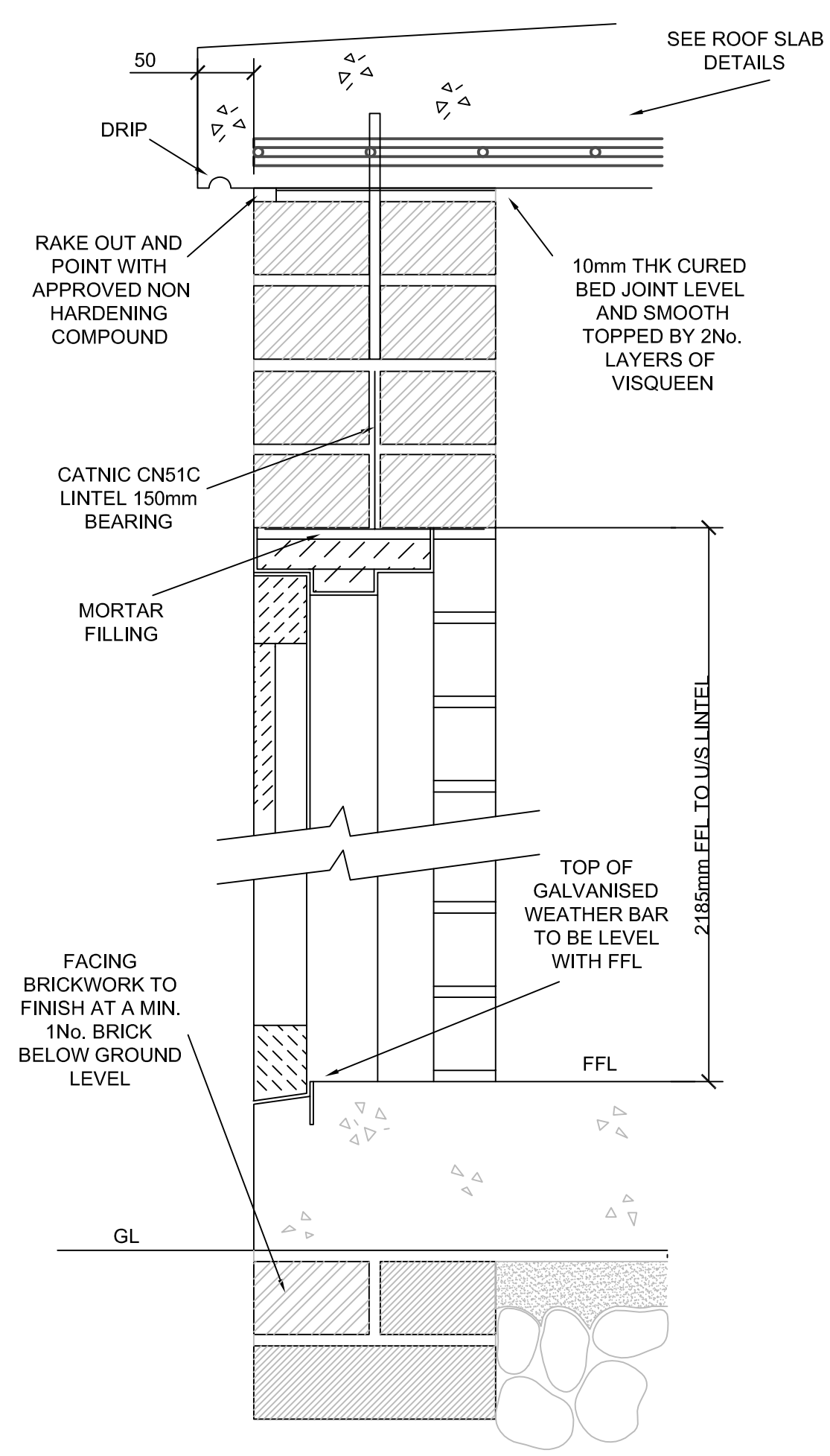
ALL LEVELS TO BE CONFIRMED.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. TEMPORARY BRACING IS TO BE PROVIDED AS REQUIRED TO ENSURE SUCH STABILITY.

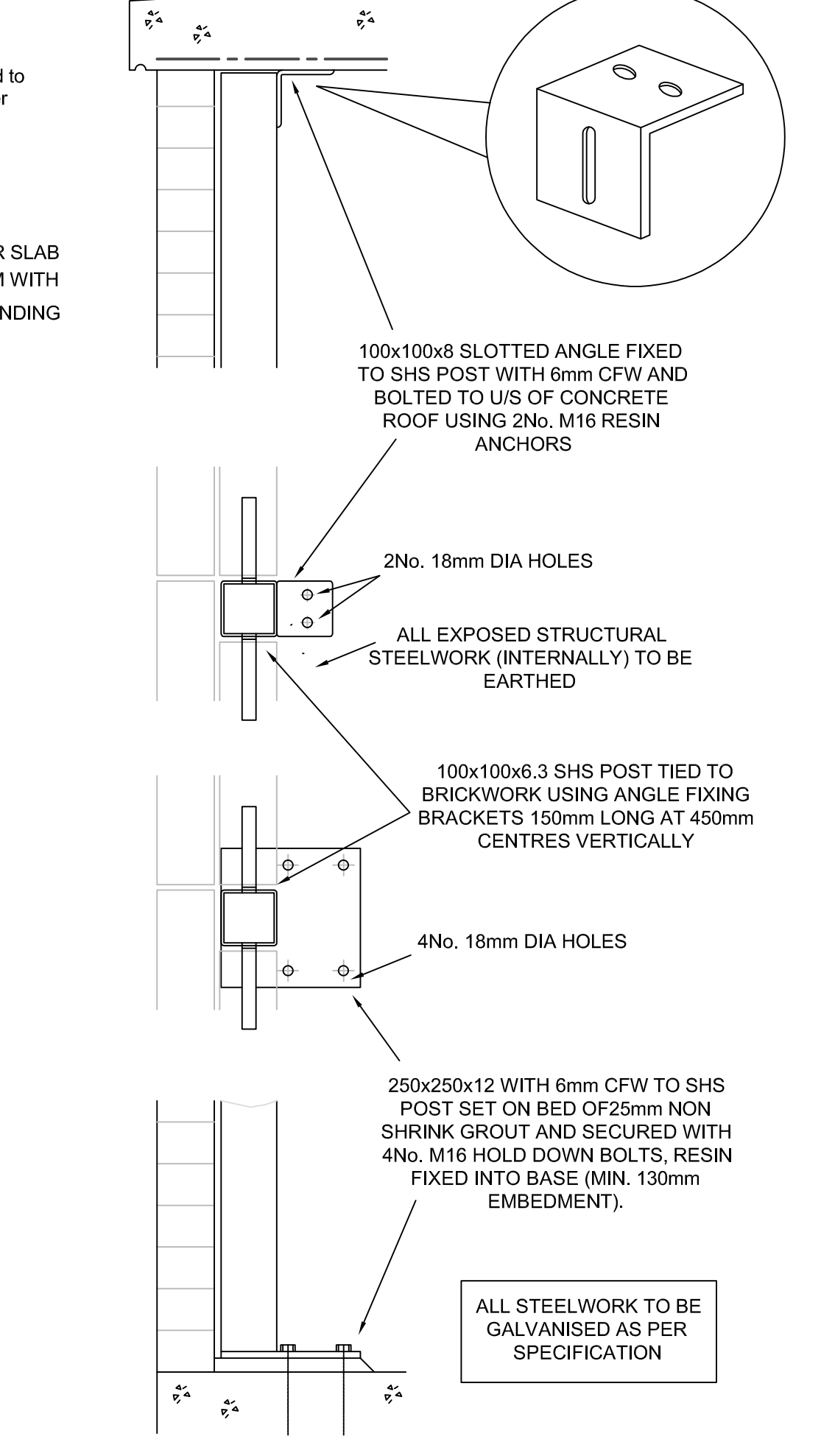
SUBSTATION DESIGNED FOR BLAST LOADING.

- ALL CONCRETE IS TO BE C32/40 WITH ALL REINFORCEMENT TO BE A393 MESH TOP AND BTM - UNO.
- ST1 WALL TIES ARE REQUIRED AT A MIN. OF 450mm CENTRES TO TIE BLOCKWORK AND SLAB TOGETHER TO ASSIST IN BLAST RESISTANCE.
- ANCON AMR-CJ /S /D4.0/ W175 MASONRY REINFORCEMENT AT EVERY COURSE.
- ADJACENT SWITCHROOM SPECIFICATION DETAILS TBC. BASED ON PLAN AREA SHOWN - CONFIRMATION OF SIZE, HEIGHT, OPENINGS, TRENCHES, ETC REQUIRED.
- ALL SET OUT AS PER SPEN TYPICAL DETAILS. SPEN APPROVAL REQUIRED BEFORE CONSTRUCTION.
- BLAST LOADING BASED ON 3.5 kN/m², SELF WEIGHT OF THE SLAB IS GREATER THAN UPLIFT FORCE.
- LINTELS TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS
- SLAB MUST ACHIEVE FULL DESIGN STRENGTH BEFORE PROPS CAN BE REMOVED.
- MASONRY CONSTRUCTION AND STRENGTH AS PER SPEN SPEC.
- ALL FINISHES AS PER SPEN SPECS



SECTION THROUGH DOORWAY AND ROOF

SCALE 1-50



STEELWORK DETAILS

SCALE 1-50

DESIGN NOTES

ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF BS EN 1992-1-1 ALL CONCRETE IS TO BE MECHANICALLY VIBRATED.

ALL CONCRETE WORK SHALL BE GRADE RC28/ 35 (35N/MM²) IN ACCORDANCE WITH THE CURRENT EDITION OF BS EN 1992-1-1.

CONCRETE TO BE IN ACCORDANCE WITH THE SPECIFICATION AND ATTAIN RELEVANT CUBE STRENGTH AT 28 DAYS.

FOUNDATIONS TO BE TAKEN DOWN TO SUITABLE BEARING STRATA - CONTRACTOR TO CONFIRM GROUND CONDITIONS TO STRUCTURAL ENGINEER FOR APPROVAL.

FLOORS TO BE FLAT, LEVEL AND SMOOTH FLOOR SURFACES REQUIRED FOR PLANT INSTALLATION.

TOLERANCE TO FINISHED LEVEL EXPRESSED AS MAX PERMISSIBLE DEVIATION BENEATH STRAIGHT EDGE WITH FEET PLACED ANYWHERE ON THE FLOOR SHALL NOT EXCEED 1mm IN 1m OR 3mm IN 3m. FLOORS TO BE CURED, PREPARED AND PAINTED WITH 2No. COATS OF NON-SLIP PAINT ON COMPLETION.

ALL BRICKWORK BELOW DPC TO BE HD CATEGORY 1 MIN. 75N/mm MEAN COMPRESSIVE STRENGTH AND MAX 7% M.A AND DURABILITY DESIGNATION F2 S2 IN ENGLISH BOND EXCEPT FOR EXPOSED FACES.

EXTERNAL FACING BRICKS TO BE HD CATEGORY 1 MIN. 30N/mm2 MEAN COMPRESSIVE STRENGTH. MAXIMUM 12% M.A AND DURABILITY DESIGNATION F1 S1 OR BETTER.

INTERNAL BRICKS TO BE FAIR FACED SMOOTH TEXTURED SOLID CONCRETE BROCKS SIZE TO MATCH EXTERNAL FACING BRICKS AND WITH A MEAN COMPRESSIVE STRENGTH OF NOT LESS THAN 20N/mm2 CLASS iii MORTAR.

LEAVES OF COLLAR JOINTED DOUBLE STRETCHER WALLS TO BE TIED TOGETHER BY MEANS OF TYPE 1 OR 2 STAINLESS STEEL TIES LAID EVERY 4TH COURSE AT 375mm CENTRES AND SET BACK 38mm FROM OUTER FACE. TIES ARE TO BE STAGGERED.

DOORS SPEC BY OTHERS

ON COMPLETION OF CABLING, RAMP AND TRENCH TO BE FILLED WITH DRY SAND AND SKIMMED WITH MIN. 50mm DEPTH OF SAND/ CEMENT SCREED OVER A VISQUEEN MEMBRANE.

ROOF FINISHES (INCLUDING WATERPROOFING) BY OTHERS.

THE CONTRACTOR IS TO LIAISE WITH THE SPEN DRAWINGS TO CONFIRM ALL SETTING OUT DIMENSIONS, PRIOR TO COMMENCEMENT OF CONSTRUCTION.

ALL REINFORCEMENT IS TO CONFORM WITH THE CURRENT ISSUE OF BS4449, HIGH TENSILE TYPE 2 DEFORMED BARS DENOTED 'H' MILD STEEL PLAIN BARS DENOTED 'R'

COVER TO STEEL REINFORCEMENT TO BE 40MM UNLESS NOTED OTHERWISE.

MESH REINFORCEMENT AT LAP POSITIONS TO HAVE FLYING END OF FABRIC TO ENSURE THE TOTAL LAYERS OF MESH REINFORCEMENT DOES NOT EXCEED 2 LAYERS. MESH SPACING TO BE MAINTAINED.

ALL LAP LENGTHS TO BE IN ACCORDANCE WITH EUROCODE 2

02	08.10.24	LAYOUT UPDATED	MD	MD	BH
Rev	Date	Description	By	Check	App.
01	07.03.24	ISSUED FOR TENDER	MD	MD	BH

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Client	KNOWSLEY MBC				
Project	KIRKBY LEISURE CENTRE				
Office	LIVERPOOL				
Discipline	STRUCTURAL				
Title	SUB STATION DETAILS				
Scale @ A1	AS NOTED	Status	TENDER		



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Job Number	Originator	Building/Zone	Level
4/9229	CCL	SUB	GND
Type	Discipline	Drawing No.	Revision
GA	S	001	02

0181 613 8000 - Newcastle 0181 613 8000 - Manchester 0181 613 8000 - Liverpool 0151 222 3300 - London 020 3077 8800 - Birmingham 0121 250 7800 - Glasgow 0141 222 1700 - Leeds 0113 222 1700 - Nottingham 0115 951 8000 - Sheffield 0114 222 1700 - Southampton 023 8077 8800 - Stoke-on-Trent 01892 506000 - Swansea 01792 506000 - Telford 01827 506000 - Walsley 01928 506000 - Warrington 01925 506000 - Wolverhampton 01902 506000