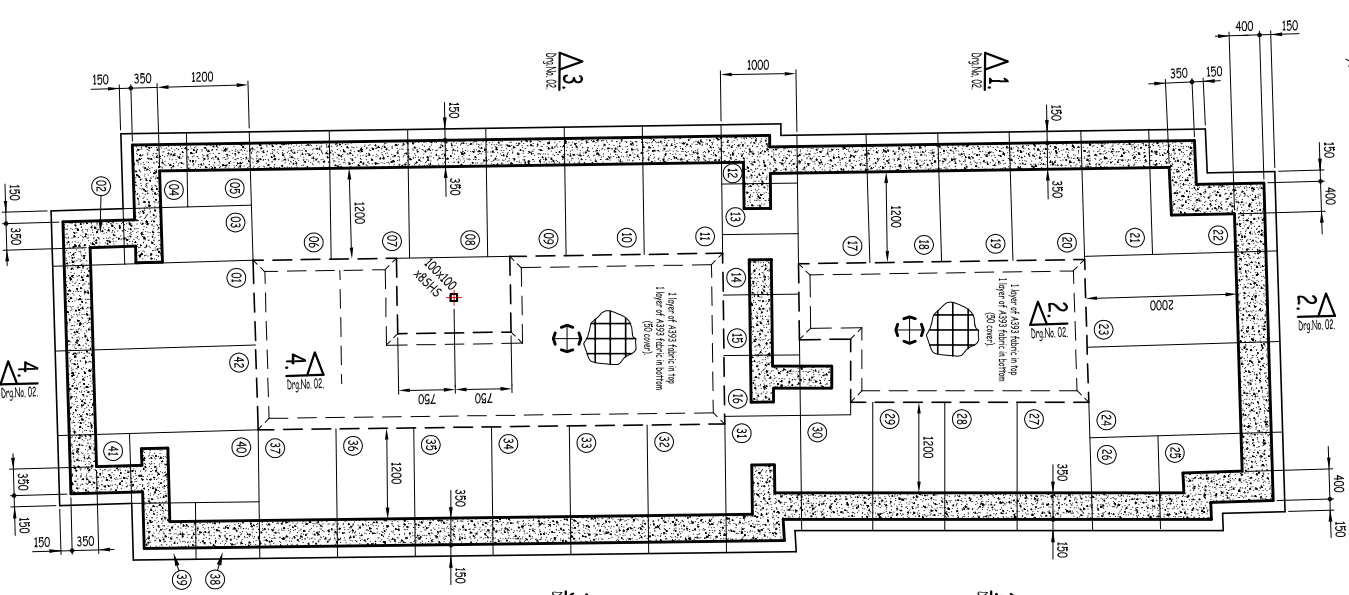


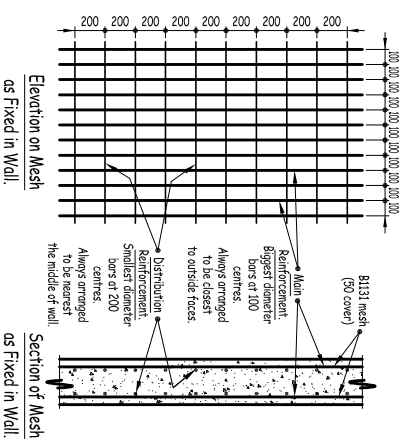
APPENDIX 1

STRUCTURAL DRAWINGS



Proposed Basement Plan Showing.
Proposed Underpinning Plan.
(Scale 1:50 of A1)

Tension Lap Lengths for Reinforcement
10mm ϕ = 450mm,
12mm ϕ = 540mm,
16mm ϕ = 720mm,
20mm ϕ = 950mm.



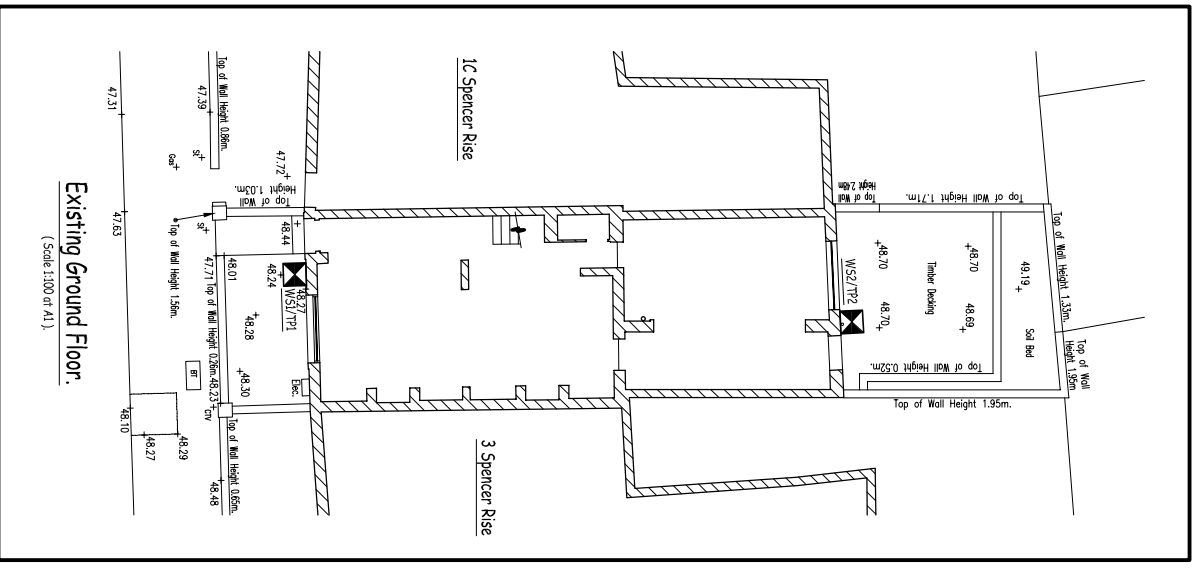
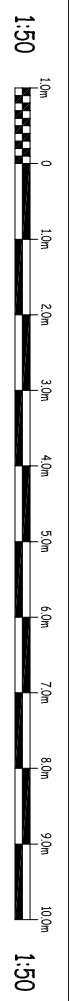
Orientation of Structural Mesh, (Prefix 'B'), in Wall.

The Contractor shall be responsible for the stability of the existing structure on the site, as well as the adjoining sites. All temporary works shall be the responsibility of the Main Contractor.

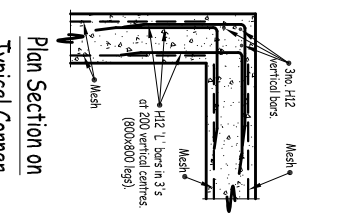
Underpinning Notes

- U1. The underpin underpinning is for identification purposes only.
- U2. The sequence of underpinning should follow the traditional 1, 4, 2, 5, 3 pattern. The Contractor is to provide drawings to show their proposed sequence for the Engineer to approve, a minimum of 14 days before work is commenced.
- U3. Underpinning to be a maximum length of 1200mm, subject to the Engineer's approval.
- U4. Provide corner bars in underpinning stems, to ensure mesh reinforcement is held in place, during concreting.
- U5. All reinforced concrete cast on the ground shall be placed on 50mm, GBN 1 concrete mix.
- U6. Foundations have been designed to impose a net bearing pressure of 100kN/m² on all dry, 75mm thick, bedrock. The bearing capacity shall be approved by the Engineer. Any additional excavation shall be replaced with a GBN 1 concrete mix. Bar in the event of extreme additional excavation being required. The Engineer must be immediately and fresh instructions obtained.
- U7. Concrete mix for foundations shall be a BCS19/45 mix with a minimum Ordinary Portland cement content of 320kg/m³ and a maximum water/cement ratio of 0.50. Concrete shall cure for at least 48 hours before dry packing.
- U8. Concrete cover to the reinforcement shall be as detailed on the drawings but never less than 35mm.
- U9. The minimum depth of the underpinning, (measured from the underside of the existing footing, to the underside of the new) shall be 300mm and shall be of 100kN/m² net load only.
- U10. The underside of the existing wall or foundation shall be trimmed and cleaned of all mud and debris before dry packing. The stem shall be a 1:3 mix and well finished in vertical layers, not exceeding 75mm thick. Dry packing shall be left 24 hours before works are commenced on adjacent underpin.
- U11. The central area of excavation shall not be carried out until the perimeter underpinning has been completed.
- U12. If necessary backfilling behind retaining walls shall be a 1:20 mix, using Ordinary Portland Cement.
- U13. Services. The Contractor is to carry out a survey of the property and adjacent areas to establish the location of obstructions, such as service pipes or drains. Any obstructions found are to be brought to the attention of the Architect and Engineer. The Contractor is to allow for any temporary support to the services or obstructions during the underpinning.
- U14. Excavations. The excavation shall be to the depth and width shown on the drawings. However where tree roots are encountered, new underpins are to extend 600mm below the last trace of any root activity. The sides of the excavation, shall be adequately shored and propped to prevent subsidence or slip of the soil faces behind the pin end of foundation level shall be underfooted.

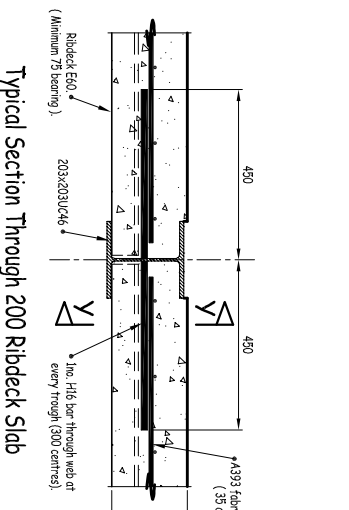
Reinforcement Note
Wall and Foundation reinforcement shall be continuous. If the area of loose bars shall be less than the area of reinforcement specified. Laps shall be not less than 45 times the lesser bar diameter.



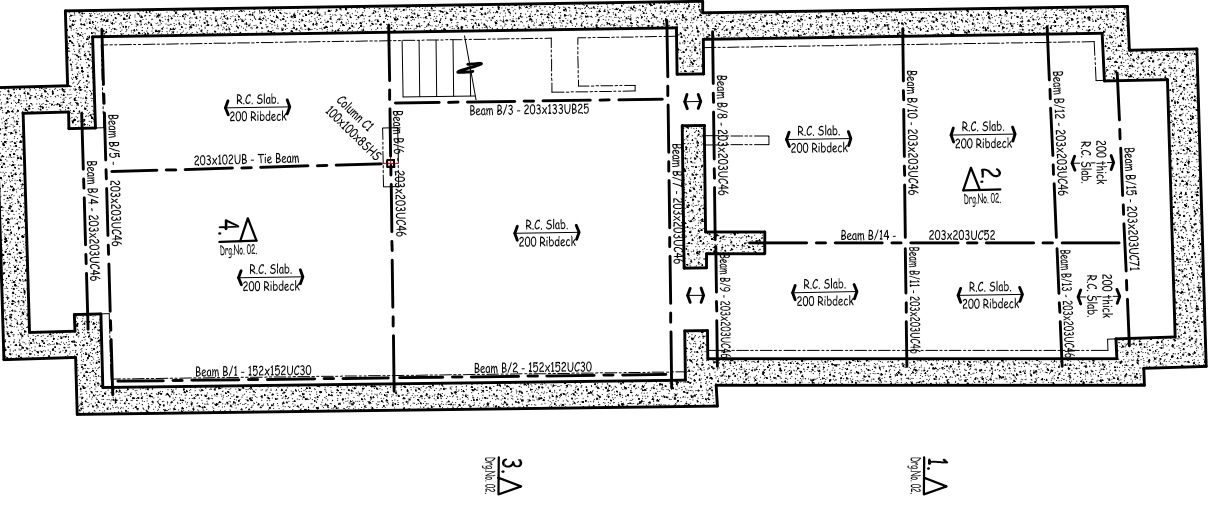
Proposed Basement Plan Showing.
Ground Floor Structure.
(Scale 1:50 of A1)



Part Elevation on Wall Showing Lacing Reinforcement Between Pins.



Typical Section Through 200 Ribdeck Slab at 203x203UC46
(Scale 1:10)



- Notes**
1. This drawing remains the copyright of Vincent and Rymill and is not to be copied, altered or changed without permission.
 2. All dimensions are in millimetres unless otherwise noted.
 3. Do not scale off this drawing.

- Structural Steelwork Notes**
1. Generally all structural steel shall be grade S355 and shall be in accordance with the National Specification for Structural Steelwork in all necessary respects.
 2. Steelwork connections shall comply with the relevant British Standard for all other members. Design where otherwise shown on the drawings. Where connection nodes are provided by the Engineer, the Contractor shall design connections, which will be subject to approval by the Engineer.
 3. Steel beam size of steel shall have the minimum bearings or moment joints as shown on the drawings. All steelwork shall be designed to the BS 5950 Part 1, 2000 edition, unless otherwise specified.
 4. Steel columns shall be made from normal 25mm thickness of grade S355. The column baseplates and foundation/insolatory supports. Girth shall take the form of steel channel. Girth with no steel additive and should be just fluid enough to pour.
 5. All structural steelwork shall be blast cleaned to BS 7079 Part A1 preparation grade SA 2.5 and except where specified as galvanised, shall be primed with a suitable good quality high build epoxy zinc phosphate primer. To provide a dry film thickness of not less than 75 microns. A fire retardation primer may be used at the Contractor's discretion. The Contractor shall ensure that the primer used is compatible with subsequent coatings specified by others (e.g. intumescent paint).
 6. Steelwork specified as galvanised shall be blast cleaned as above and hot dip galvanised to BS 5729 Minimum coating thickness 85 microns.
 7. All steelwork below d.p.c. level or built within the masonry wall cavity, shall be site primed with a compatible high build epoxy zinc phosphate primer, to provide a dry film thickness of not less than 125 microns, to achieve an overall primer coating of 200 microns, i.e. 75 microns of primer and 125 microns of zinc phosphate primer below or equal. Steelwork below d.p.c. shall be enclosed in a non-breathable 100mm of concrete, or masonry, then specified on the drawings.
 8. Structural steelwork to be connected with the Main Contractor to provide adequate bracing during the sequence of erection.
 9. The protection to steel by Architect details.

- Concrete**
1. Generally all structural concrete works to be in accordance with the National Specification for Concrete in all necessary respects.
 2. Concrete mix for foundations shall be a BCS19/45 mix with a minimum Ordinary Portland cement content of 320kg/m³ and a maximum water/cement ratio of 0.50.
 3. All concrete below ground level (cable wells and foundations) to be designed for a design sulphate class of D5-1.
 4. Under no circumstances is concrete to be poured, if expected temperature within the following 24 hour period is expected to be 5°C or less.
 5. No admixtures of any form, to be added to the concrete, without the written permission of the Structural Engineer. It is STRICTLY forbidden to add water to premixed concrete on site.
 6. Site batching of concrete to be approved by the Engineer before its use.
- Structural Masonry Notes**
1. Refer to Architect's drawings and the specification for masonry requirements, in respect of acoustic, thermal insulation and durability requirements. The Engineer shall be notified immediately if conflicts with the structural requirements.
 2. Blockwork below ground level to have a minimum compressive strength of 7.3N/mm² and to be set in 1:3 cement-sand mortar. All blockwork to be solid, unless specified otherwise on the drawings and is to comply with BS 5628 Table 4 Requirements for Special Category Manufacture.
 3. Blockwork below ground to have a minimum compressive strength of 30N/mm² and is to comply with BS 5628 requirements for Special Category of Manufacture.
 4. Mortar designation as follows: - Above d.p.c. Mortar Designation III Below d.p.c. Mortar Designation II
 5. Refer to the Architect's drawings for details of d.p.c., d.p.m., waterproofing and insulation.
 6. Linings

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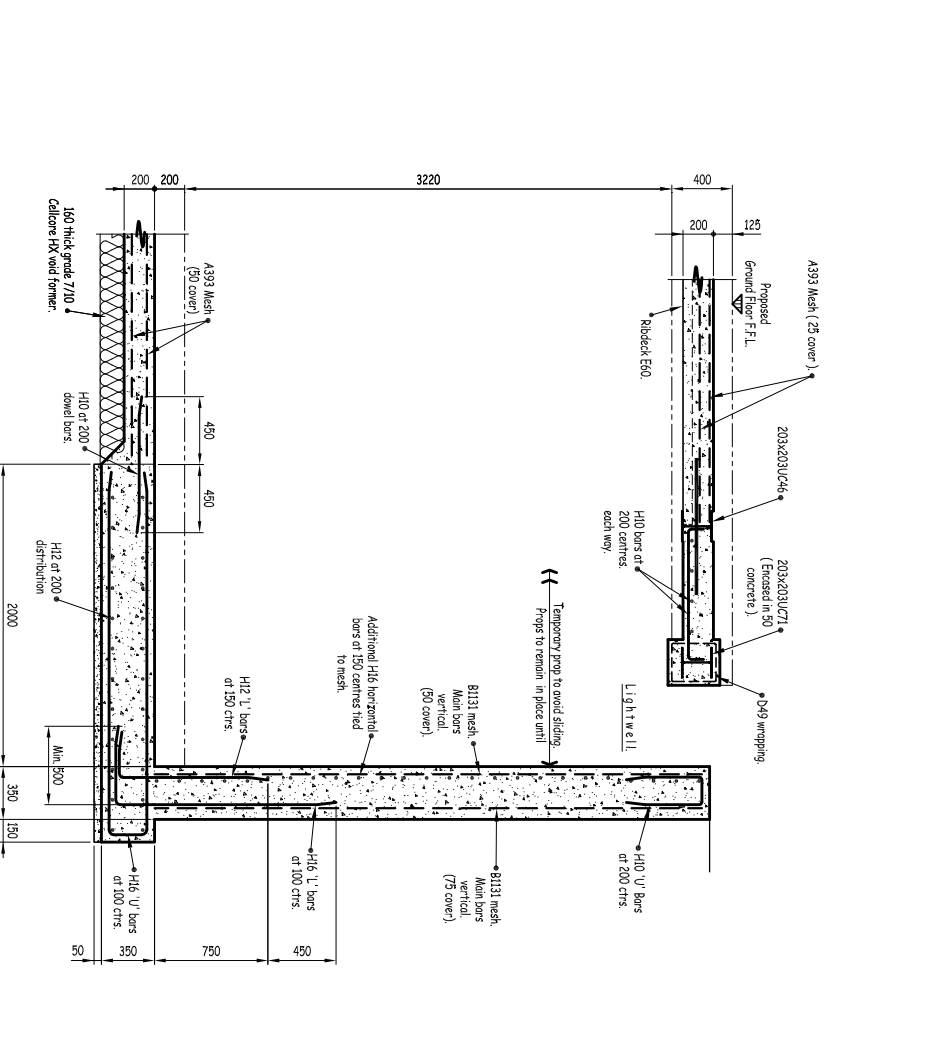
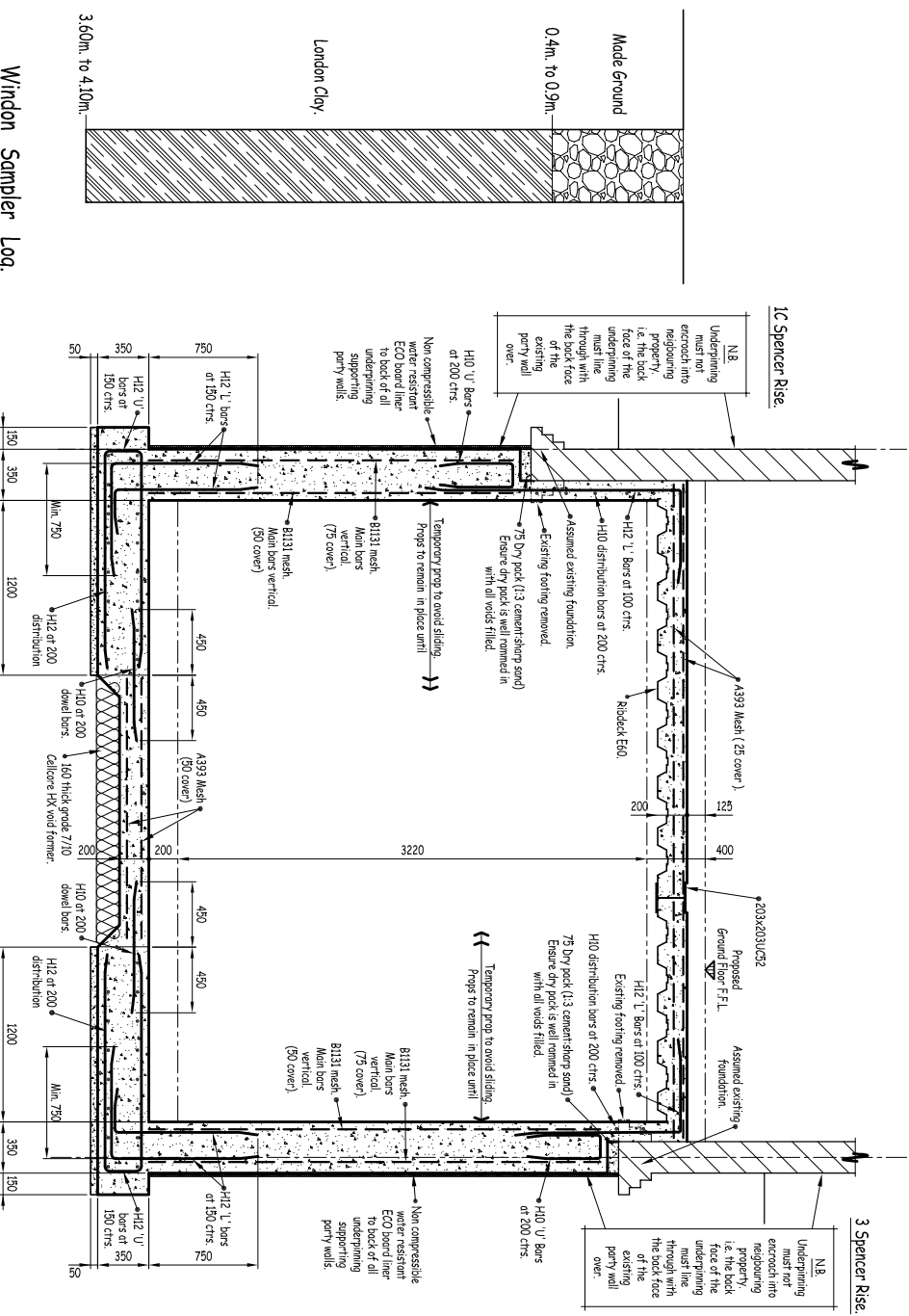
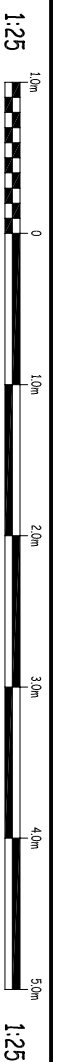
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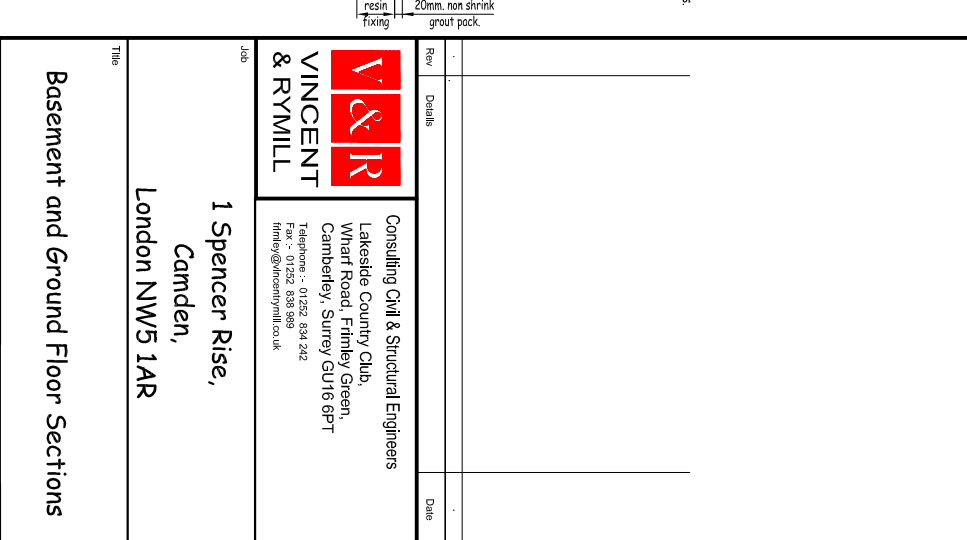
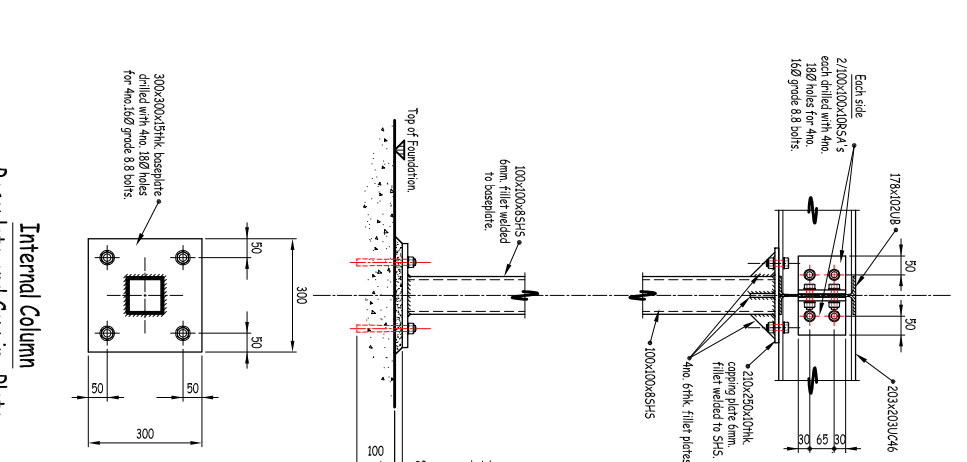
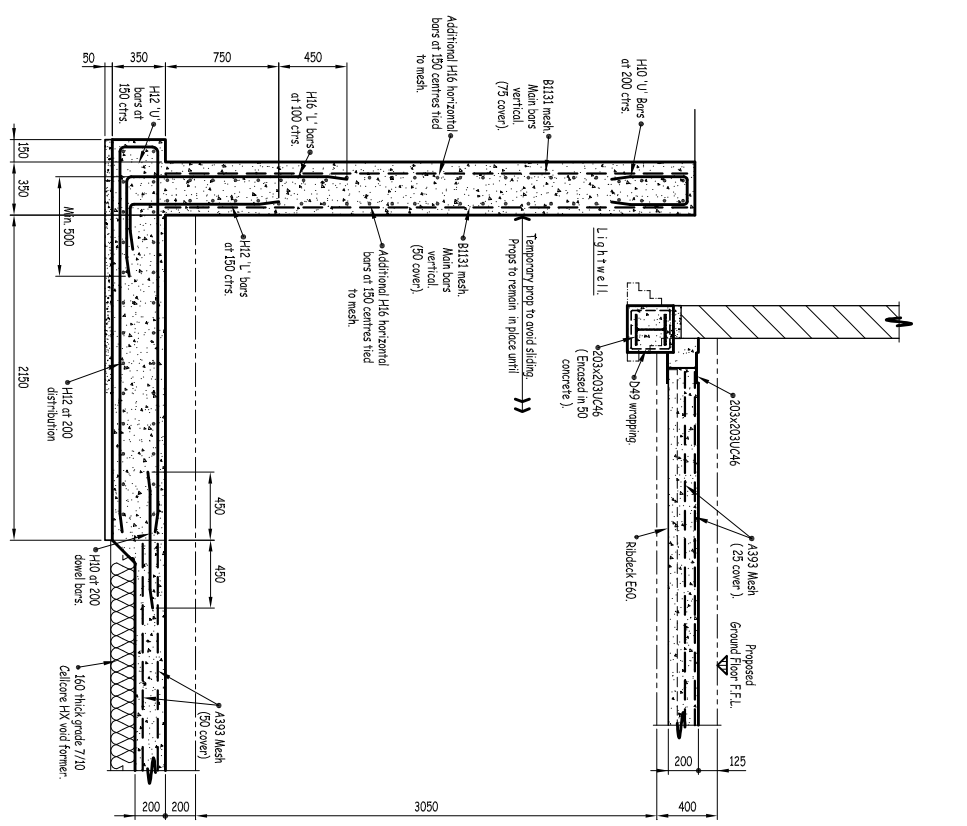
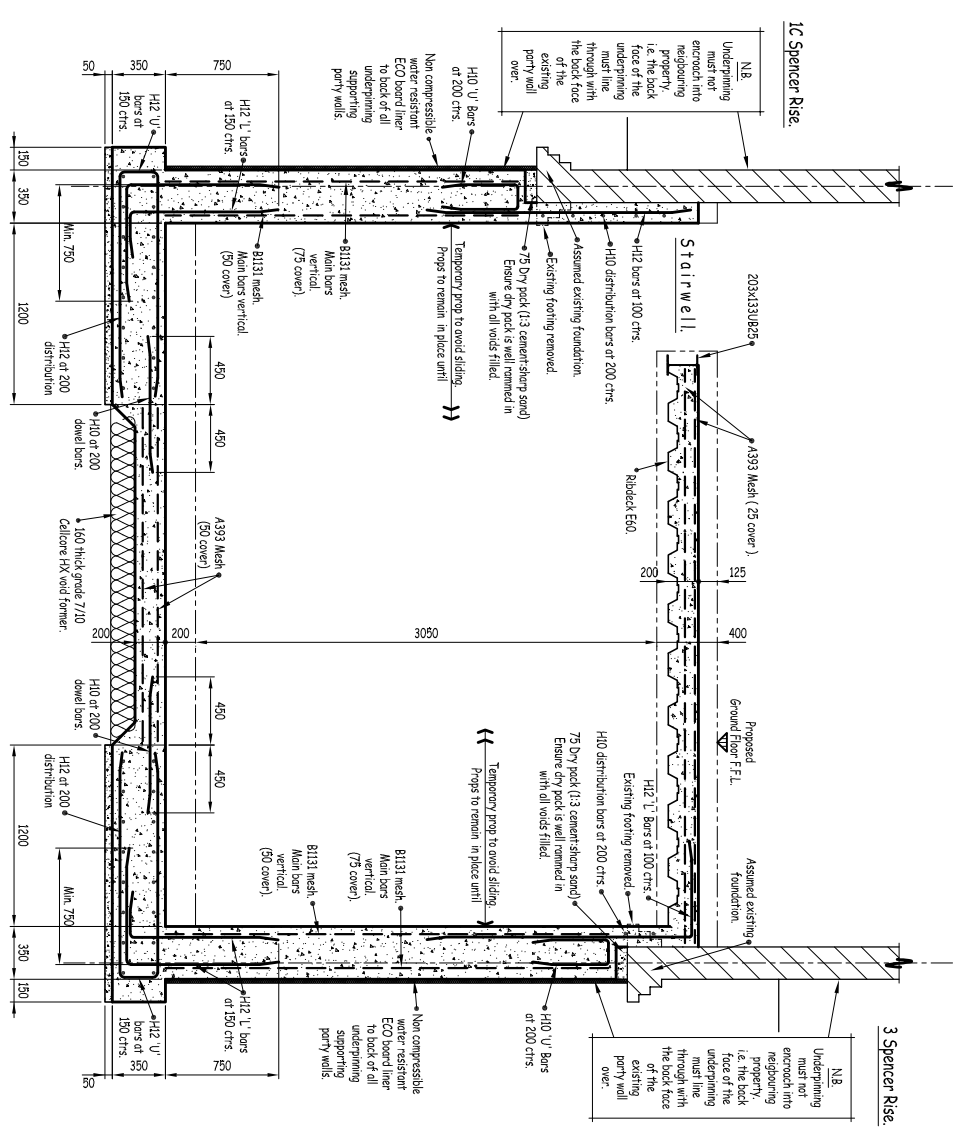
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Scale of A1 1:50 1:100
Date March 2018
Job No 18806
Dwg No 01



Section 2-2
(Scale 1:25 at A1)



Notes
1. For notes see drawing number 18906 / 01.

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Job	1 Spencer Rise, Camden, London NW5 1AR		
Title	Basement and Ground Floor Sections		
Scale at A1	Date	Job No	Draw No
1:25 1:10	March 2018	18906	02