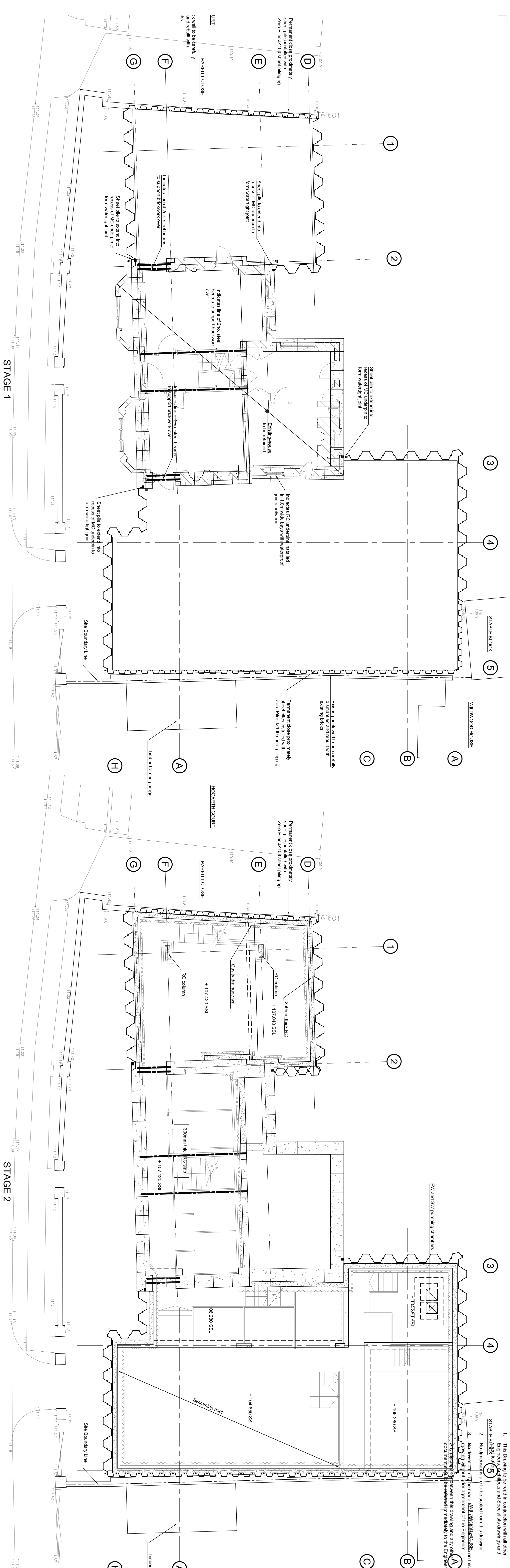


1. This Drawing to be read in conjunction with all other Engineers, Architects and Specialist drawings and

2. No dimensions are to be scaled from this drawing.

3. No alterations to be made ~~without the Engineer's~~ **without the Engineer's** consent on this drawing without prior agreement of the Engineers.

4. Any discrepancy between this Drawing and any other document shall be referred immediately to the Engineer.



GENERAL SEQUENCE OF WORKS

Sheet sheet piles are to be installed either side of the existing house with a sealed waterproof joint to the RC pins extending from under the existing house.

The existing area of house that is retained is to have all load bearing walls underpinned with RC Concrete piers and steel beams to supports existing brickwork structure .

Excavation can then take place in stages to allow the insertion of all temporary propping and strutting that is required.

A number of RC pins will need to be cut back to allow installation of the RC basement slab and walls.

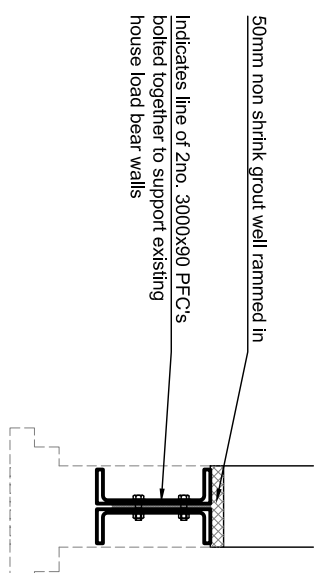
The RC Basement, RC basement walls and RC ground floor slab can be cast in the required sequence and tied to the RC underpins supporting the existing structure over.

CONSTRUCTION METHOD SEQUENCE

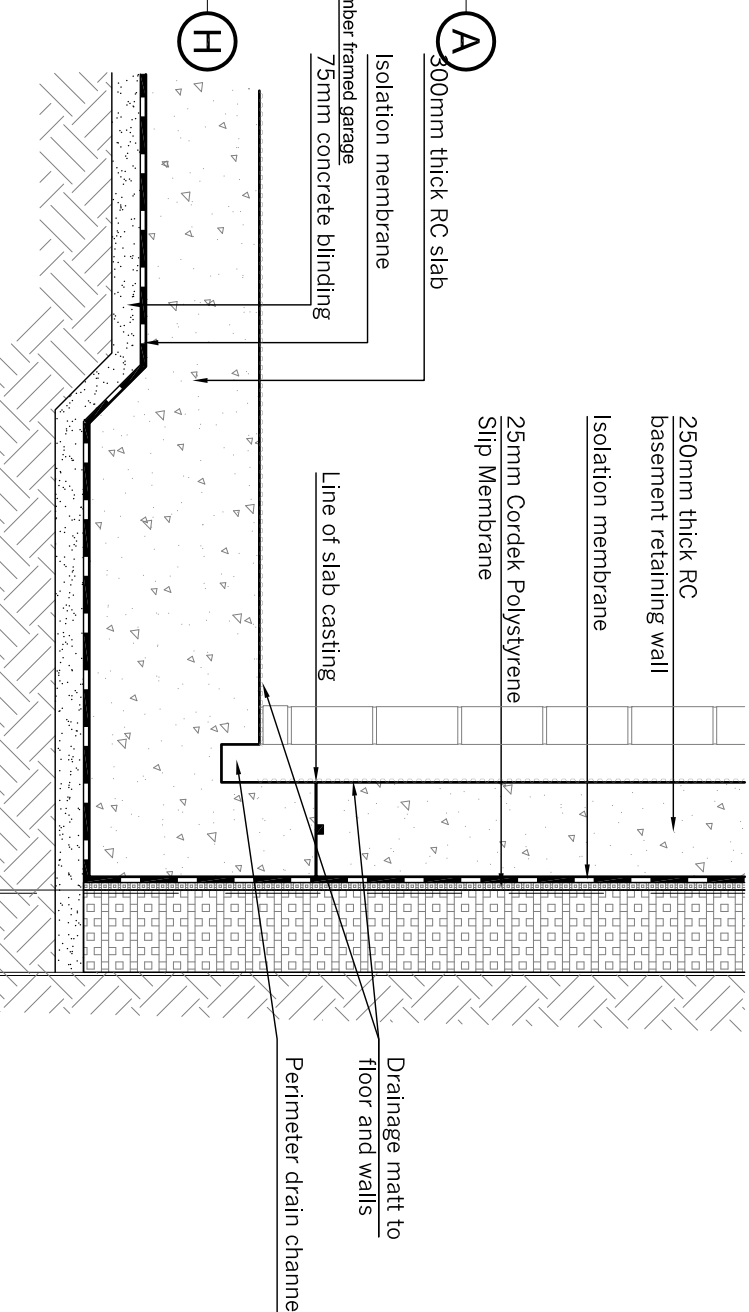
CONSTRUCTION METHOD SEQUENCE

- Install within the site area & to the existing house and surrounding area a number of fixed monitoring rods to monitor possible movement during the works.
- The existing ground is to be dewatered and adjoining buildings and add-ons demolished as shown on the drawings to allow the new slab to be poured and compacted.
- Once the ground has been dewatered and the site cleared, the ground will be piling across the steel piles into the ground using the resistance of the adjoining installed sheet piles.
- The existing building will then be to underpinned with RC piers and associated support steel work.
- The ground is to locally excavated 1m to allow installation of the steel waliers and props at low level.
- The ground is then to locally excavated to allow installation of the steel waliers and props at low level.
- The ground is then to be excavated to formation level.
- The drainage pipes and granular drainage channels are to be installed.
- The RC ground floor slab and RC wall down stands can then be cast.
- The RC basement slab and RC basement walls and internal columns.
- 150mm high kickers to cast all the RC basement walls and internal columns.
- Install and cast all internal RC walls and columns to understate of ground floor slab.
- Once the RC basement slab has gained the required design strength the sheet piling walling beams and at low level are to be removed.
- The RC basement walls are then to be cast to 600mm below the understate of the high level walling beams. RC walls are then to be removed.
- Once the basement RC walls have gained the required design strength, install diagonal props fixed to the RC wall & RC basement slab and then remove the high level sheet piling walling beams and storing.
- The RC ground floor slab and RC wall down stands can then be cast.
- The RC ground floor slab has gained the required design strength the additional diagonal props can be removed.
- During the construction period the sheet piling and surrounding ground will be monitored at regular intervals to confirm the construction tolerances stays within the agreed design parameters.
- The new structure is now supported on the new basement slab under, with the adjoining basement boxes either side forming a solid box construction to the whole basement structure.
- Continue with construction of remainder of the structure over.

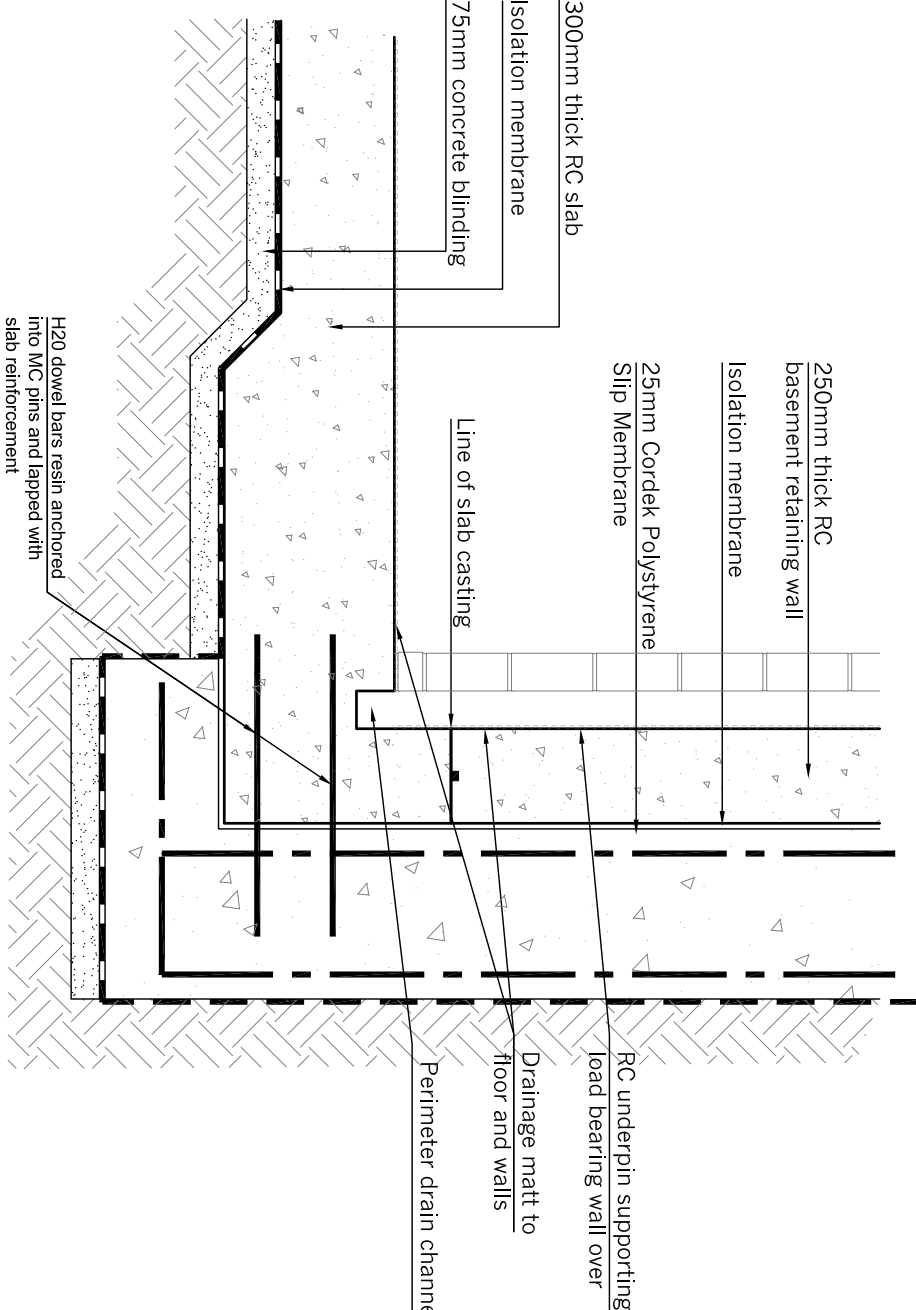
Section of RC ground beam with temporary steel stools



Section of RC Slab and MC Underpins



Section of RC Slab and MC Underpins



Ref.	Revisions	By	Date
8	Schema updates to show related Campaigns/Sequences	GB	3/23/12
9		GB	10/23/12
C	IMPROVED DMS AND ECLS ACCORD	GB	11/14/12
D	Sequences notes adjusted Training updated to latest Schema	GB	2/26/13

WILLWOOD LODGE
9 NORTH END,
LONDON,
NW3 7HH,
PLANNING ISSUE
DRAWING
STAGE SEQUENCE TO
SUPPORT EXISTING
HOUSE SHOWING
TEMPORARY/PERMANENT
WORKS

ONLY use this side of form

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Scale at A1	Date	Drawn By
1:100	25/03/11	GB

Project No.	Dwg No.	Rev.
8250	SK02	D