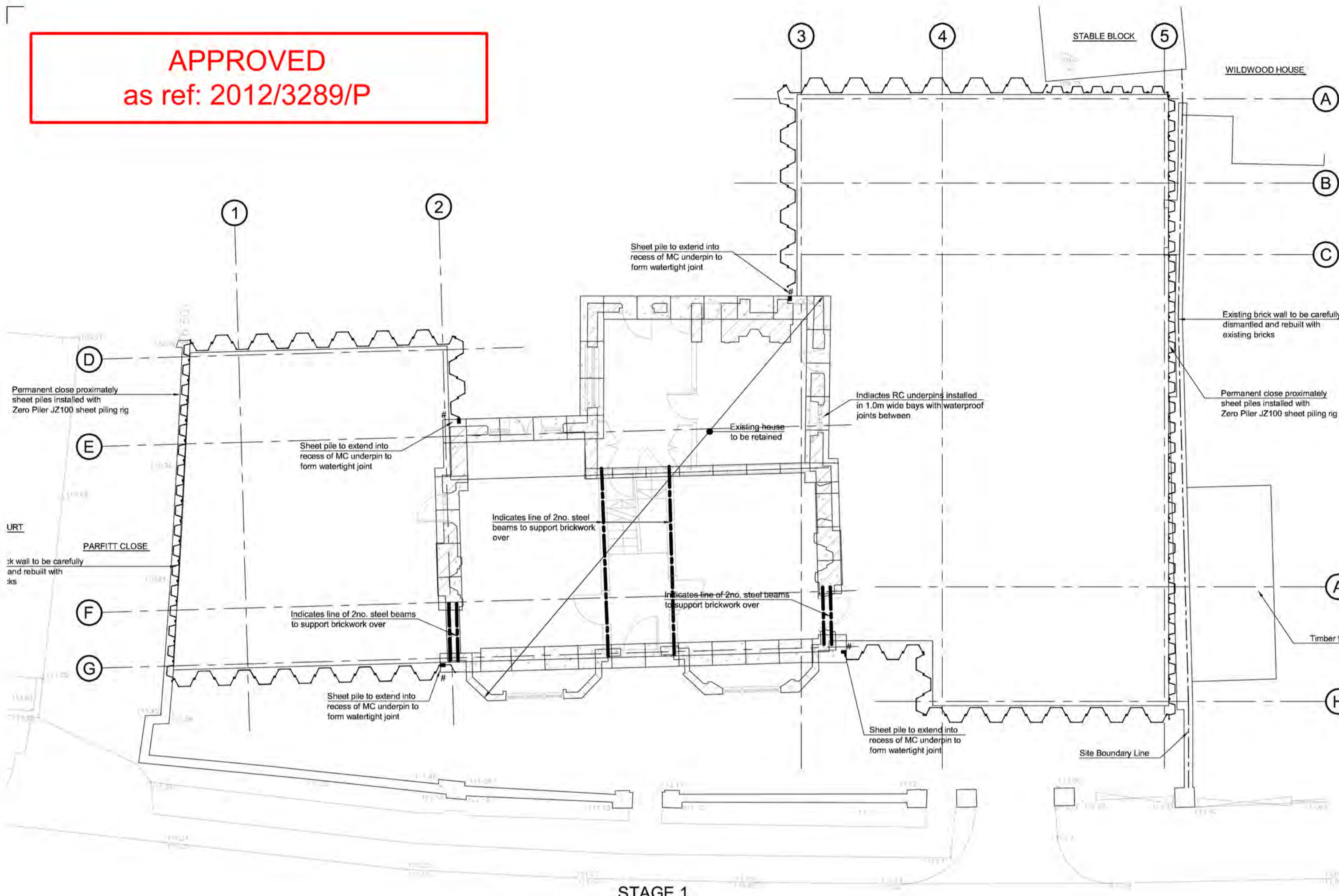
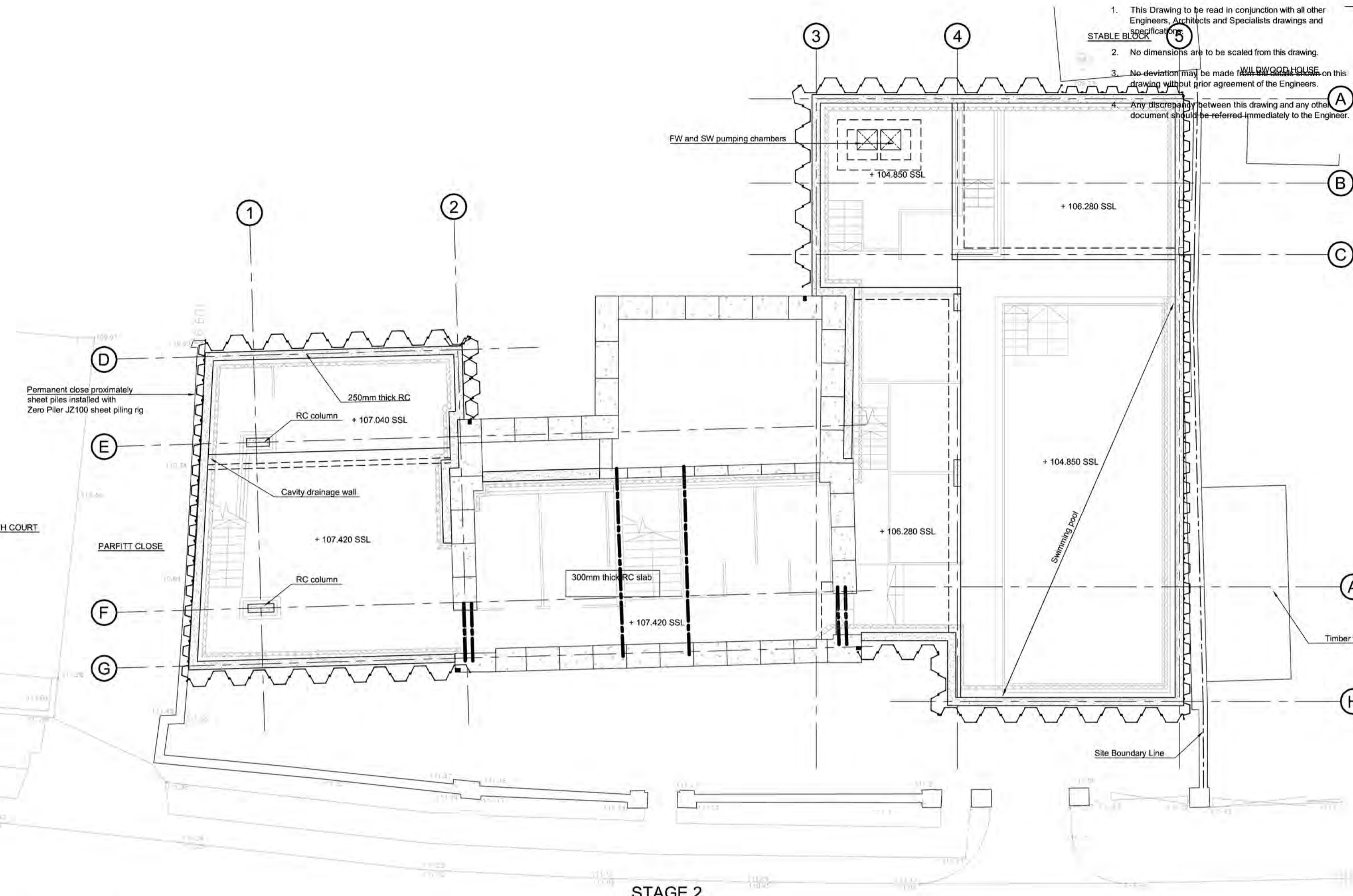


**APPROVED**  
as ref: 2012/3289/P

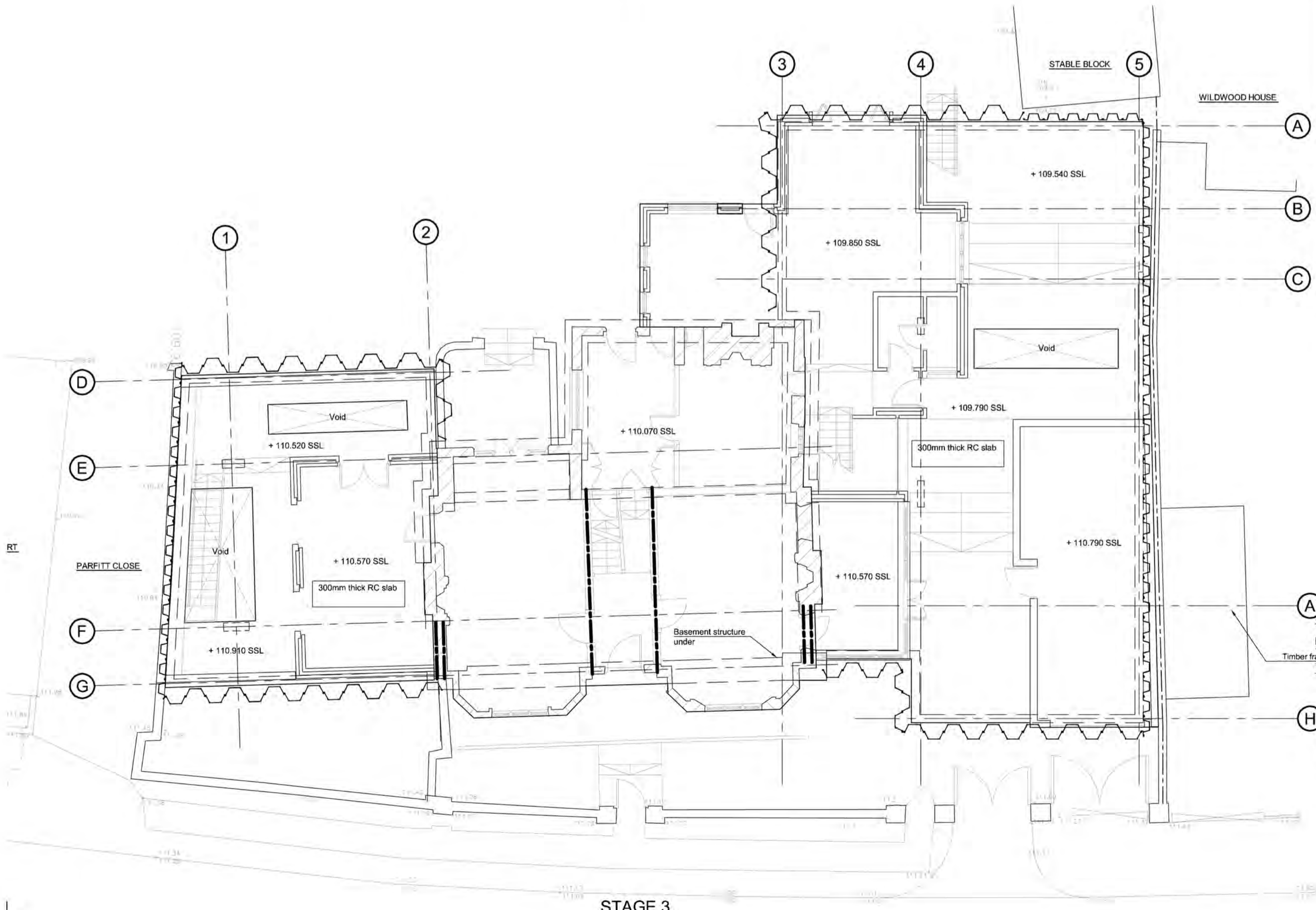
- This Drawing to be read in conjunction with all other Engineers, Architects and Specialists drawings and specifications.
- No dimensions are to be scaled from this drawing.
- No deviation is to be made from the design on this drawing without prior agreement of the Engineers.
- Any discrepancy between this drawing and any other document shall be referred immediately to the Engineer.



STAGE 1



STAGE 2



STAGE 3

**GENERAL SEQUENCE OF WORKS**  
The existing house is to be retained and all other additions are to be demolished

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.

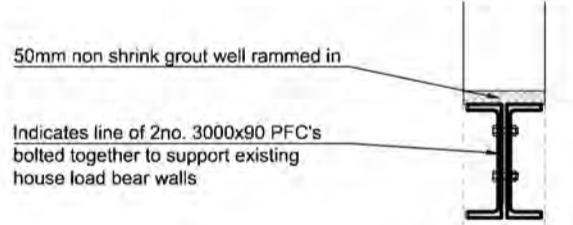
The existing area of house that is retained is to have all load bearing walls underpinned with RC Concrete pins and steel beams to supports existing brickwork structure .

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

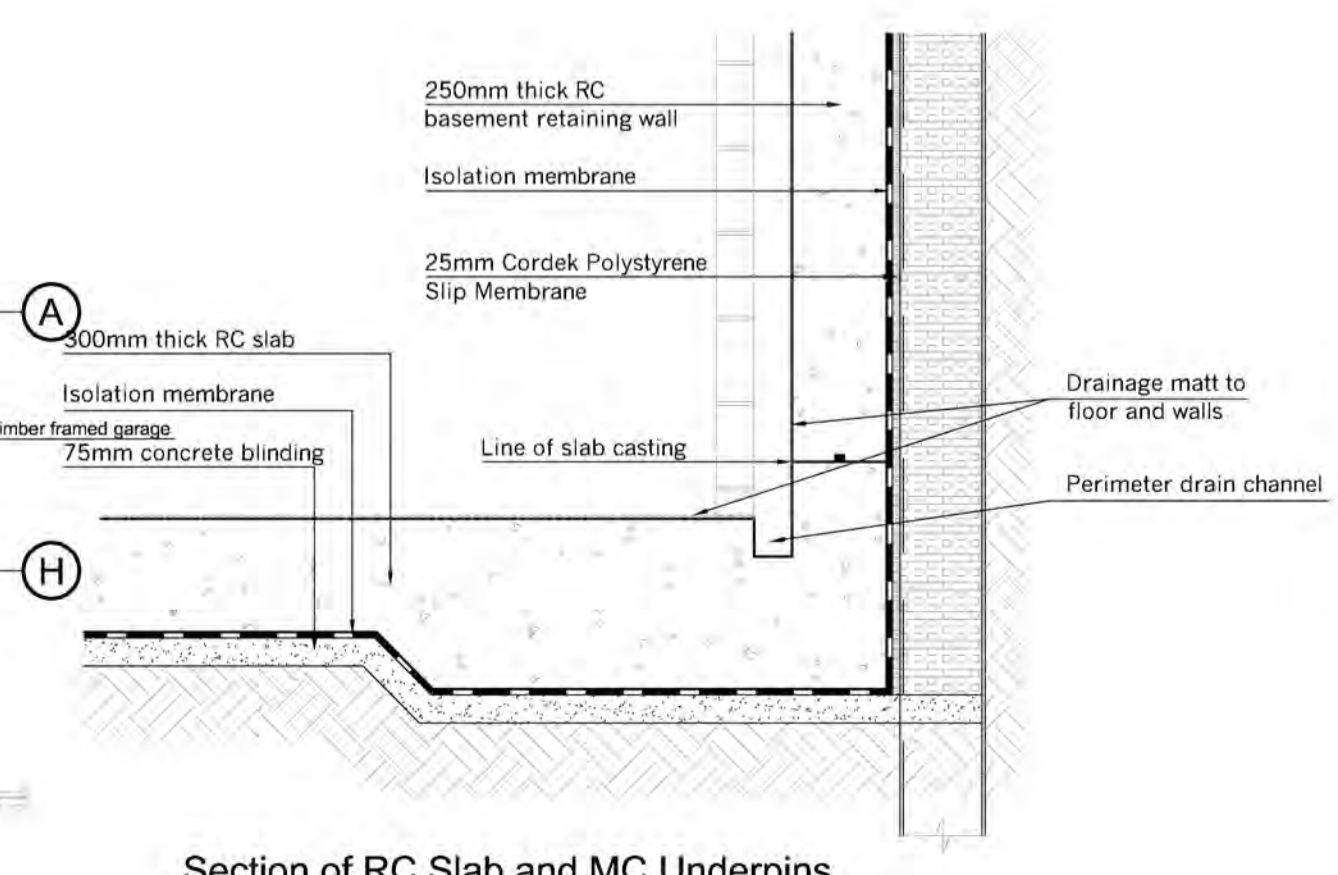
A number of RC pins will need to be cut back to allow installation of the RC basement slab and walls.

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.

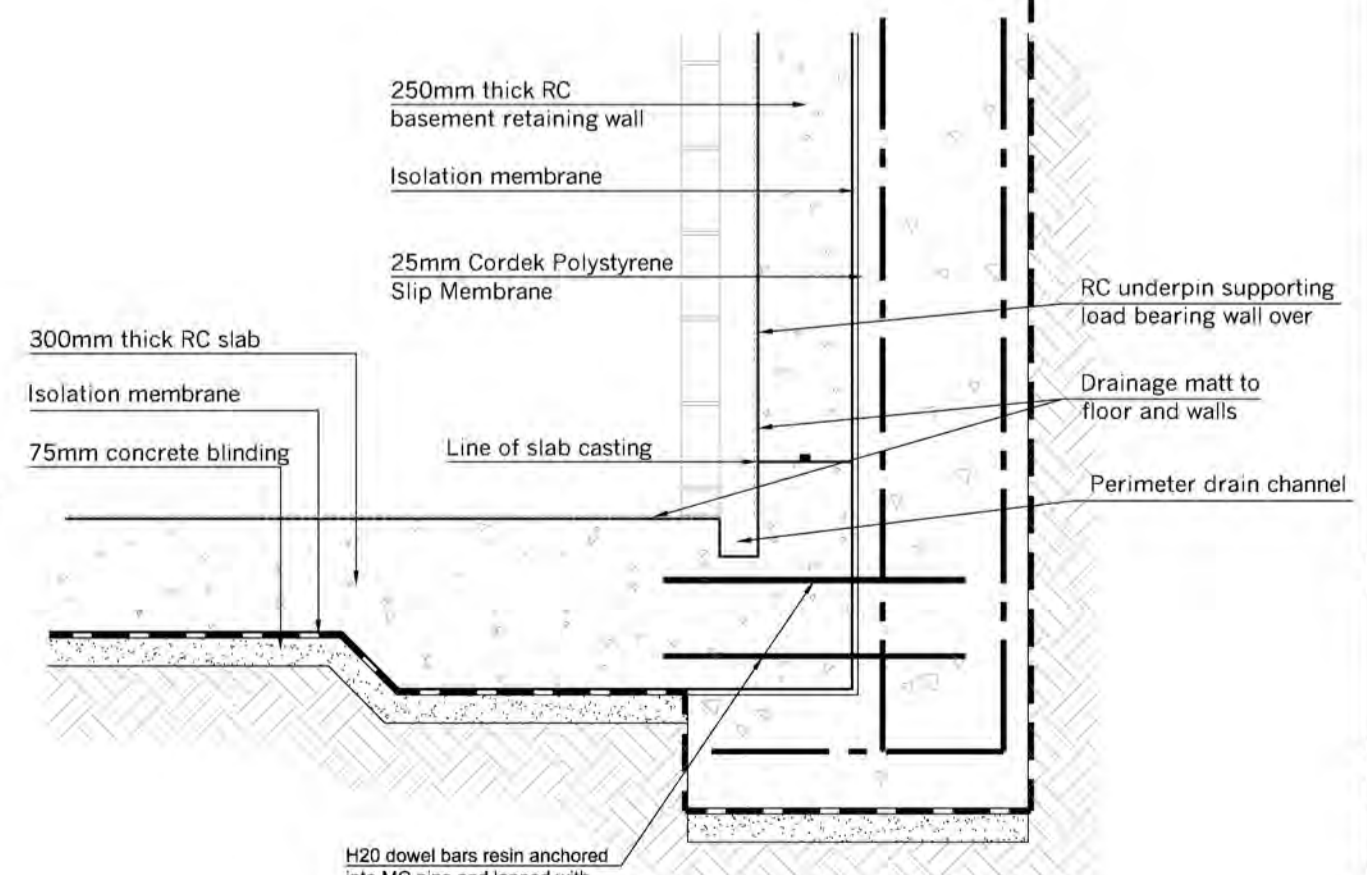
- CONSTRUCTION METHOD SEQUENCE**
- Install within the site area & to the existing house and surrounding area a number of fixed monitoring nodes to monitor possible movement during the works.
  - The existing house is to be retained and adjoining buildings and additions demolished as shown on the demolition drawing all foundations are to be grubbed out.
  - The sheet piling is to be installed with a Silent Piler similar to a Giken Rig which presses the sheet piles into the ground using the resistance of the adjoining installed sheet piles.
  - The existing building is then to be underpinned with RC pins and associated support steel work.
  - The ground is to locally excavated 1m to allow installation of the steel waliers and props at high 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 basement RC slab build-up is to be installed and then the basement slab cast with 150mm high kickers for all the RC basement walls and internal columns.
  - Install and cast all internal RC walls and columns to underside 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 basement RC walls are then to be cast to 600mm below the underside of the high level walling beams.
  - 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 shoring.
  - The RC ground floor slab and RC wall down stands can then be cast.
  - Once 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 existing structure is now supported on the new basement raft 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
D	Sequence notes adjusted	GB	2008.12
C	Drawing updated to latest Scheme	GB	13.08.12
B	INDICATING DIMS AND LEVELS ADDED	GB	02.03.12
A	Schema updated to show revised Construction Sequence	GB	27.02.12

**WILWOOD LODGE**  
9 NORTH END,  
LONDON,  
NW3 7HH,

**PLANNING ISSUE**  
DRAWING

**STAGE SEQUENCE TO**  
**SUPPORT EXISTING**  
**HOUSE SHOWING**  
**TEMPORARY/PERMANENT**  
**WORKS**

Scale at A1		Date	Drawn By
1:100		25/03/11	GB
Project No.	Dwg No.	Rev.	
8250	SK02	D	

