



### STEP 1

Install contiguous pile walls to perimeter of basement

Cast capping beam over contiguous pile wall to tie piles together

### STEP 2

Remove existing ground floor construction

- beam and block in main house
- timber construction in side extension

Excavate to the underside of the existing ground beams

Inspect existing ground beams and carry out necessary repair and strengthening works

### General notes and risk mitigation measures

1. Design of the contiguous piled wall, underpins and open-cut excavations shall be carried out in accordance with relevant Eurocodes, non-conflicting codes of practice, associated design best practice and in line with the project ground movement assessment.
2. Retaining wall construction to be performed by an experienced ground works contractor. The permanent earth retaining system consists of a contiguous piled wall on East and South sides of the building and a reinforced liner wall on the North and West sides
3. Develop a monitoring-trigger-action plan that identifies trigger levels, responsible personnel and actions to be followed in the event of a trigger level exceedance with main contractor prior to construction work
4. Incorporate stiff, high and intermediate level localised propping into the temporary works design of the basement excavation, so as to provide a high stiffness earth retention system.
5. Identify designated areas for stacking and storing materials behind the embedded retaining wall. These should be located away from sensitive structures. The design of the retaining wall should incorporate an appropriate surcharge load to the rear of the wall, to capture effects of stacking and storing materials, vehicle traffic, etc.
6. Develop a de-watering plan (eg: sump pumps) to pump out water entering basement excavation. Groundwater ingress will be minimised by proposed contiguous piled wall

### Notes

- Not to scale
- For information only
- Final construction sequence by main contractor

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Project

Maresfield Gardens

Status

S9

Drawing Title

Construction sequence (1 of 4)

Date  
23.01.24

Drawn by  
NW

Scale  
NTS

Revision  
01