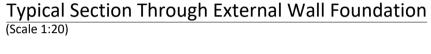


- Centre line of pile and ground beam to align with centre line of party wall Void (see Table 1) - 450mm maximum Designed pile cut-off -450x450mm ground beam unless noted level to be 50mm otherwise on foundation drawing above the underside of the ground beam - Cellcore void former and preformed pile collar to underside of ground beam where indicated on foundation drawing (see Table 1)

beam to align with centre line of internal load bearing wall Void (see Table 1) 450mm maximum Designed pile cut-off 450x450mm ground beam unless noted level to be 50mm otherwise on foundation drawing above the underside of the ground beam - Cellcore void former and preformed pile collar to underside of ground beam where indicated on foundation drawing (see Table 1)

Centre line of pile and ground

Typical Section Through Internal Load Bearing Wall Foundation



Typical Section Through Party Wall Foundation

Centre line of pile and ground beam to align with centre line of sleeper wall Void (see Table 1) Designed pile cut-off 450x450mm ground beam unless noted level to be 50mm otherwise on foundation drawing above the underside of the ground beam Cellcore void former and preformed pile collar to underside of ground beam where indicated on foundation drawing (see Table 1)

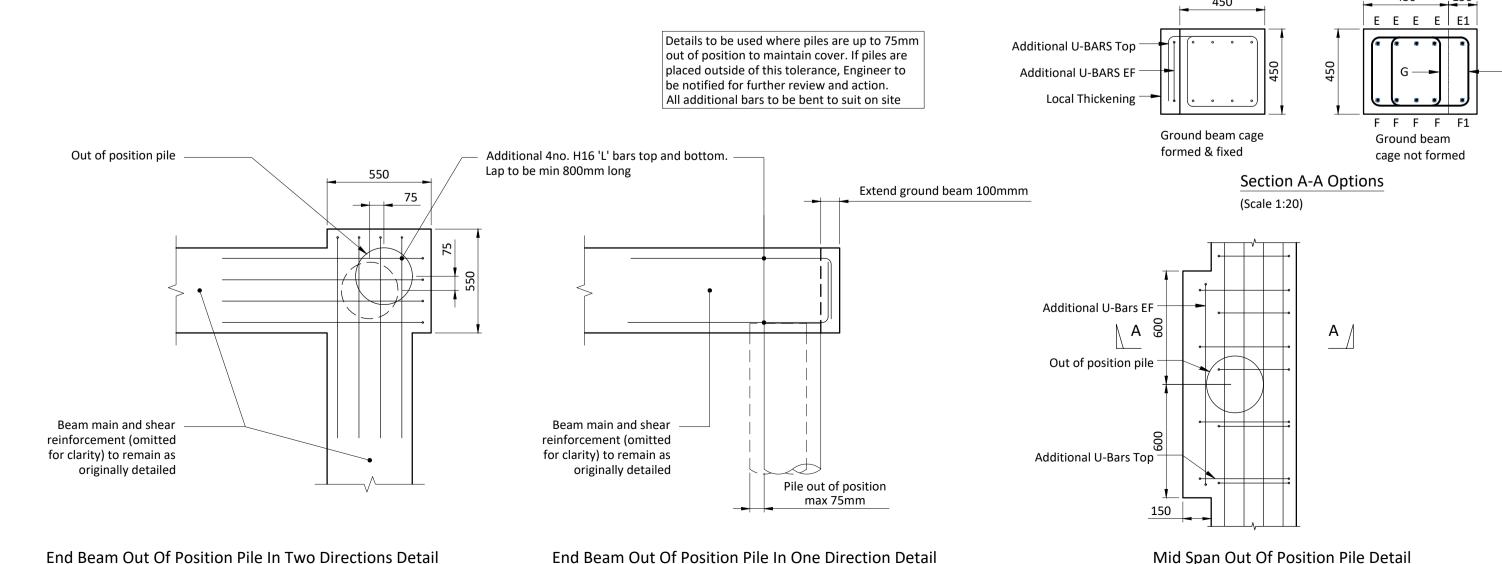
- Centre line of pile and ground beam to align with centre line of garage wall Void (see Table 1) Claymaster compressible material to inner face of ground beam where indicated on Designed pile cut-off foundation drawing (see Table 1) level to be 50mm 450x450mm ground beam unless noted above the underside otherwise on foundation drawing of the ground beam - Cellcore void former and preformed pile collar to underside of ground beam where indicated on foundation drawing (see Table 1)

(Scale 1:20)

Typical Section Through Sleeper Wall Foundation

(Scale 1:20)

Typical Section Through Garage Wall Foundation



(Scale 1:20)

Soil Volume Change Potential (See Pile & Ground Beam Notes note 1)	Claymaster Thickness	Ground beam up to 460mm deep - use Cellcore HX B 13/18 thickness as below	Ground beam up to 660mm deep - use Cellcore HX B 18/24 thickness as below	Minimum void dimension		
None	0mm 0mm	0mm 85mm	0mm 85mm	150mm 200mm		
Medium	50mm	155mm	<b>1</b> 55mm	250mm		
High /75mm/ 220mm/ 300mm/						

Table 1: Claymaster, Cellcore Void Former and Sub-floor Void Requirements

## PILE & GROUND BEAM NOTES

the environment.

unfactored.

- 1. Soil volume change potential is MEDIUM.
- 2. Gas protection measures are to be in accordance with the recommendations of the ground investigation report and regulatory approvals.

**HEALTH, SAFETY & ENVIRONMENT** 

undertaken.

hazards.

NOTES

It is the responsibility of the client to ensure that those undertaking the works are competent and experienced in the type of work to be

In addition to the hazards usually associated with the types of work

detailed on this drawing, the following specific hazards have been

identified through design risk assessment. The planning and execution of the works should take into account all usual and specific

Hazards should also be taken into account in the maintenance,

operation, decommissioning and demolition of the works.

Ground conditions may be unstable during excavation

The stability of adjacent foundations will need to be

1. All dimensions are in millimetres (mm) and levels in metres

3. The copyright in this drawing belongs to Structa LLP; the

Above Ordnance Datum (mAOD) unless noted otherwise.

designs and details may not be used on any project other than

Where AutoCAD or Revit files of the drawing are issued, they

are provided for the convenience of others, and shall not be

5. For material and workmanship requirements refer to notes on

relevant drawings and structural specification 3902-SS001.

used for construction purposes or relied upon for accuracy or

Live services may be present on site

considered during excavation works

2. Do not scale from this drawing.

completeness.

that indicated in the title block.

Piling rig and working platform on sloping site

Deep excavations necessary

£xisting ground is/may be contaminated

- 3. Foundations have been designed using the following information:-
- a. Leap Enviromental Ltd Site Investigation Report: report No. LP00906, dated 28/04/15.
- b. Persimmon Homes drawing No. 634-Con-100 Site Plan,
- entitled Site Plan, received 15/12/23.
- Hook Survey Partnership Site Survey: survey No. S21/8261/01 S21/8261/03, dated June 2021.
- d. PJC Consultancy Ltd Arboricultural Report: report No. PJC/6449/24-01 Rev 01, dated 05/01/24.
- 4. The pile design shall be the responsibility of the piling contractor and in accordance with the ICE Specification For Piling and its latest amendments.
- Pile type shall take into account the ground conditions, underground structures and services, adjacent structures and
- All piling concrete is to be specified by the piling contractor in accordance with BS 8500-1 and to BRE Special Digest No. 1.
- 7. The pile diameter is assumed to be 300mm. The Engineer is to be informed if an alternative pile diameter is to be used.
- All piles loads shown are in kilonewtons (kN) and are
- Integrity testing is to be carried out on all piles.
- 10. A full log of the piling works shall be made in line with ICE Specification For Piling and submitted to Building Control and NHBC for approval.
- 11. If errors occur in pile locations refer this to the Engineer to allow remedial measures to be designed.
- 12. All piles and ground beams shall be central about the gridlines unless noted otherwise.
- 13. Concrete is specified in accordance with BS 8500-1 and BRE Special Digest No. 1. All concrete is to conform to BS EN 206-1 and BS 8500-2.
- 14. The Aggressive Chemical Environment for Concrete (ACEC) site classification is: AC-2z.

## **Ground Beams:** - Concrete strength/durability requirements are as follows:

**Designed Concrete** - Compressive Strength Class: C32/40 - Maximum water/cement ratio: 0.55 - Minimum cement content: 320 kg/m<sup>3</sup>

- Permitted Cements and Combinations: All in Table A6/A12 - Maximum aggregate size: 20mm - Chloride Class: Cl 0,40 (Cl 0,20 for SRPC)
- Nominal cover 40mm

## **Designated Concrete** - Concrete designation: RC32/40

- The Design Chemical Class is: DC-2. Where necessary. the strength/durability requirements indicated above 8500-1 and BRE Special Digest No. 1.

- The minimum cement contents indicated are based on the stated maximum aggregate size. If a smaller maximum aggregate size is used the cement content is to be increased in accordance with BS 8500-1.

- 15. Heave protection measures to be provided where required as shown on the foundation drawings and in line with the details and specifications indicated on the foundation sections
- 16. The Building Control Inspector and/or NHBC Inspector are to inspect and approve the ground beam reinforcement prior to placing of concrete.
- 17. Concrete sampling and testing shall be carried out in accordance with BS 1881.
- 18. All excavations for reinforced concrete shall be kept free from water, loose material and rubbish.
- 19. Where faces are cast directly against the ground, cover is to be increased locally to 75 mm and sizes of concrete members increased accordingly.
- 20. Spacer blocks are to be made of pre-cast concrete or a proprietary plastic alternative.
- 21. It shall be the responsibility of the contractor to check bending schedules against drawings prior to ordering of the reinforcement and to notify the Engineer of any discrepancies.

C2	18.07.25	OUT OF POSITION PILE DETAILS ADDED	GB	NW	TJS
C1	11.12.24	CONSTRUCTON ISSUE	GB	NW	TJS
P1	23.02.24	FIRST ISSUE	GB	NW	TJS
Rev.	Date	Description	Drawn	Checked	Approved

## FOR CONSTRUCTION



LAND AT BASSETTS FARM, HORSMONDEN, KENT - PHASE 1

PILED FOUNDATION SECTIONS, DETAILS AND CONSTRUCTION NOTES

Structural Civil Geo-environmental





