

Trial Pit Investigations

TP1/2 - Vaults

Purpose of these trial pits is to determine the depth of the foundation underneath the masonry walls in the vault area. Suggest two trial pits in the corners of the vaults are hand dug, with a high level methodology summarised below.

TP3/4 - GF walls

A new strip footing is being built in this location as part of the refurbishment works. The Trial pits will determine the detail of the adjacent existing walls and record/note the ground conditions up to 1.5m deep only.

Suggested method statement for forming these trial pits are summarised below:

1) Break out existing slab and hand dig trial pit to determine depth and projection of existing foundation and type of ground. Where digging pits next to existing brick footings, care is to be taken to ensure that the brick corbels are not damaged during excavation.

For TP3/4, dig down approx. 1.5m and record type of material observed, including presence of gravels or made ground.

2) Hole to be approx. 800mm sq (or to contractor's preference) and dug to 100mm below the existing foundation (or 1.5m deep for TP3/4).

3) Record foundation type, depth and type of material observed.

4) Backfill hole in compacted layers and reinstate slab/finishes.

Where required by H&S Regulations and/or as requested by the Engineer, the Contractor shall supply, fix and remove on completion (if required) sufficient support to the sides of observation pits to protect anyone entering and working in the pit.

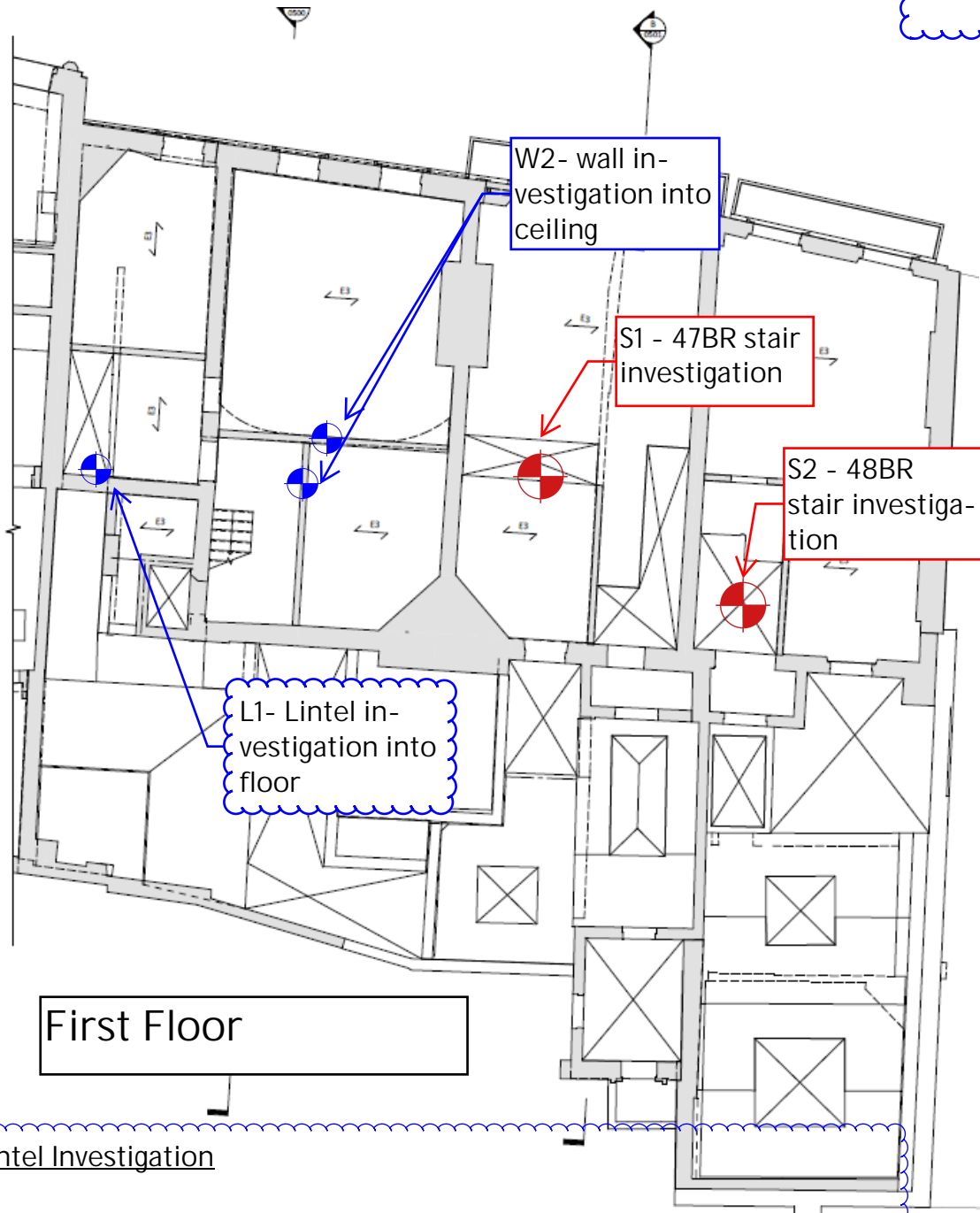
Contractor undertaking these works are to prepare appropriate Risk assessments and method statements prior to works for the Engineer to comment on.

Refer to the sheet 3/3 for indicative sketches of the proposed trial pits

Rev 2 (09/06) - W1, W2, S1, S2 added
Rev 3 (12/06) - L1 added

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L1: This could either be undertaken from the ceiling at GF, or through floor at level 2
W2: This could be either undertaken from the ceiling at level 1, or through the floor at level 2



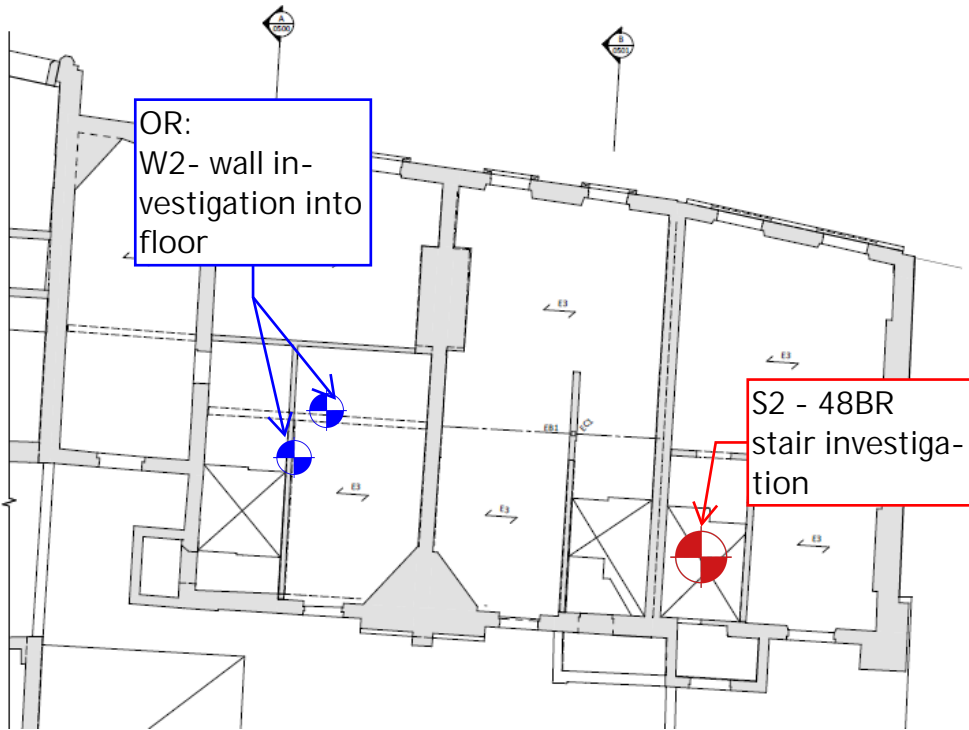
First Floor

Lintel Investigation

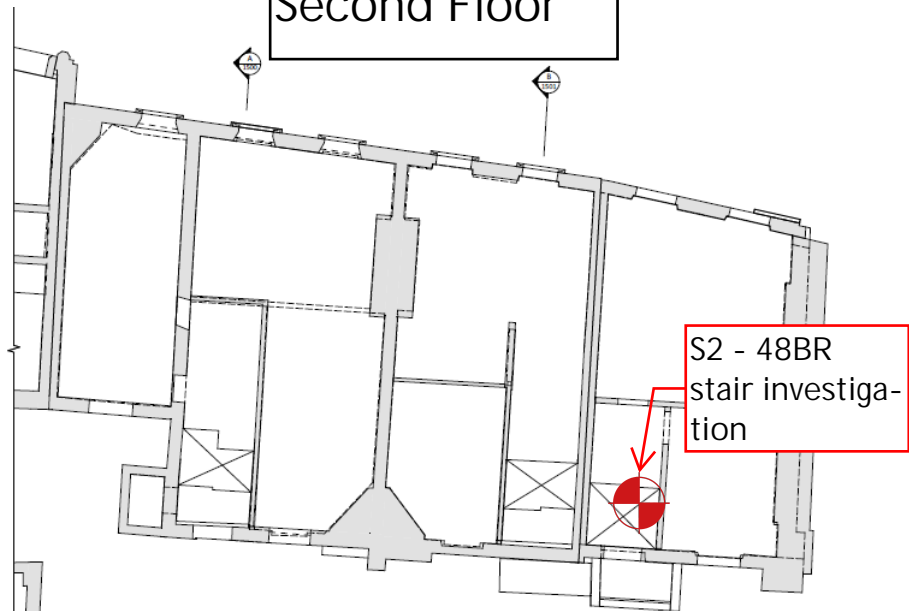
L1- Lvl 1 lintel
Purpose of this investigation is to determine the size, location/level and arrangement of the lintel, including how the incoming stair is supported

Suggested method statement for investigation L1 is summarised below:

- 1) Remove ceiling/finishes to expose interface between stair joists, masonry walls (padstone support) and the lintel in question.
- 2) Record detail and interface, including site measurements of lintel size/arrangement relative to GF. HTS Engineer to inspect.
- 3) Reinstall ceiling/finishes as required.



Second Floor



Third Floor

Wall Investigations

W1 - GF to lvl 1 wall
Purpose of this investigation is to determine the interface between the wall and timber joists.

W2 - Lvl 1 to 2 wall
Purpose of this investigation is to determine whether this wall is loadbearing, and supporting the level 2 joists. This could be undertaken either at ceiling level (lvl 1) or through the floor at level 2.

Suggested method statement for ceiling investigation W1 & W2 is summarised below:

- 1) Remove ceiling/finishes to expose interface between timber joists and the wall in question. This is to be done on both sides of the wall if possible.
- 2) Record head detail and interface with floor joists. HTS Engineer to inspect.
- 3) Reinstall ceiling as required.

Stair Investigations

S1 & S2 - 47 and 48 BR staircases
Purpose of this investigation is to determine the framing and condition of the structural supports to the existing stairs being retained.

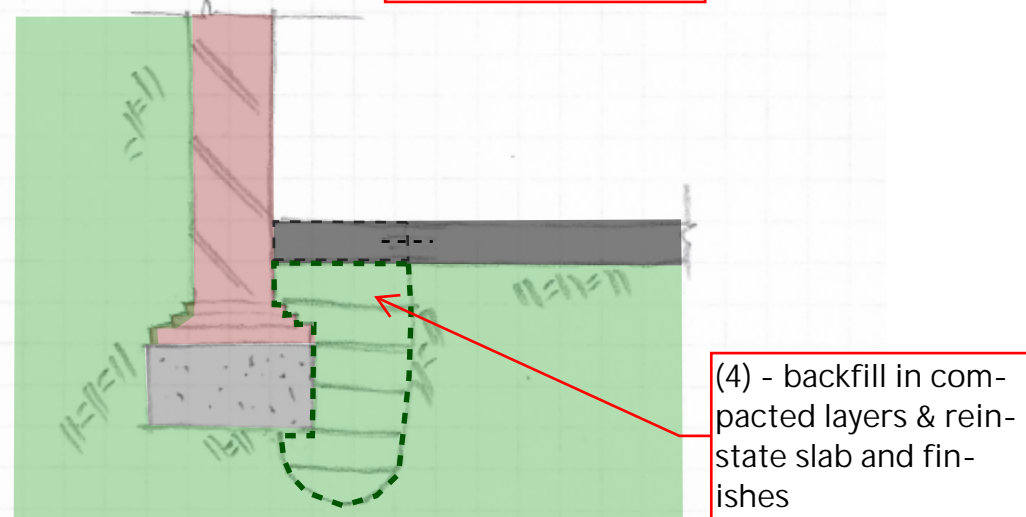
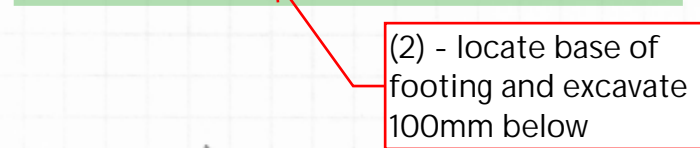
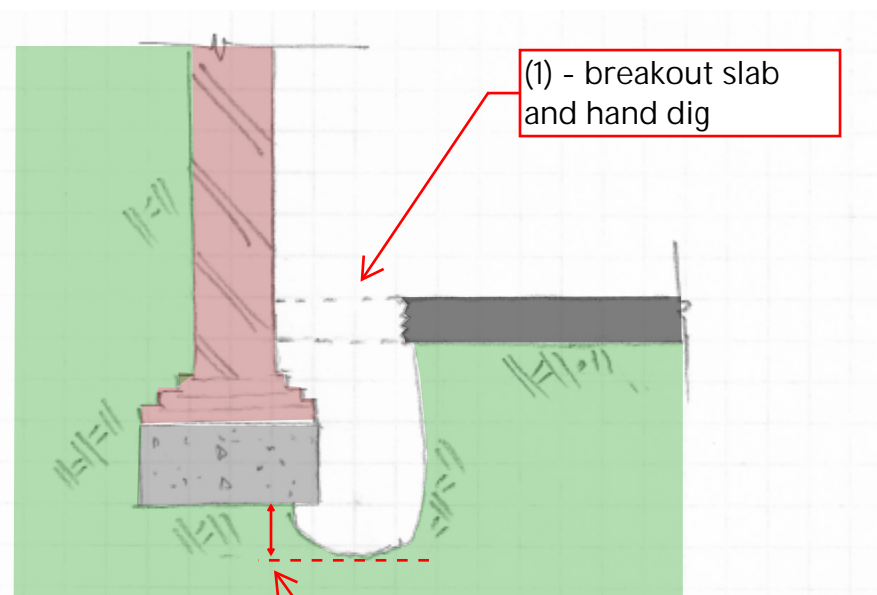
Suggested method statement for this investigation is summarised below:

- 1) Investigate from underneath stair (i.e. at high level) by removing local area of soffit/ceiling. Where this is not possible, care must be taken to remove risings/goings from the top of the stair as to not damage joists underneath.
- 2) Record condition of timber joists, including noting any water ingress/damage/rot that may be prevalent. Also record significant deflection/deformation of joists as appropriate. HTS Engineer to inspect.
- 3) Reinstall ceiling/soffit and/or floor board as required.

Contractor undertaking these works are to prepare appropriate Risk assessments and method statements prior to works for the Engineer to comment on.

Rev 2 (09/06) - W1, W2, S1, S2 added
Rev 3 (12/06) - L1 added

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TP1/2 - Vaults

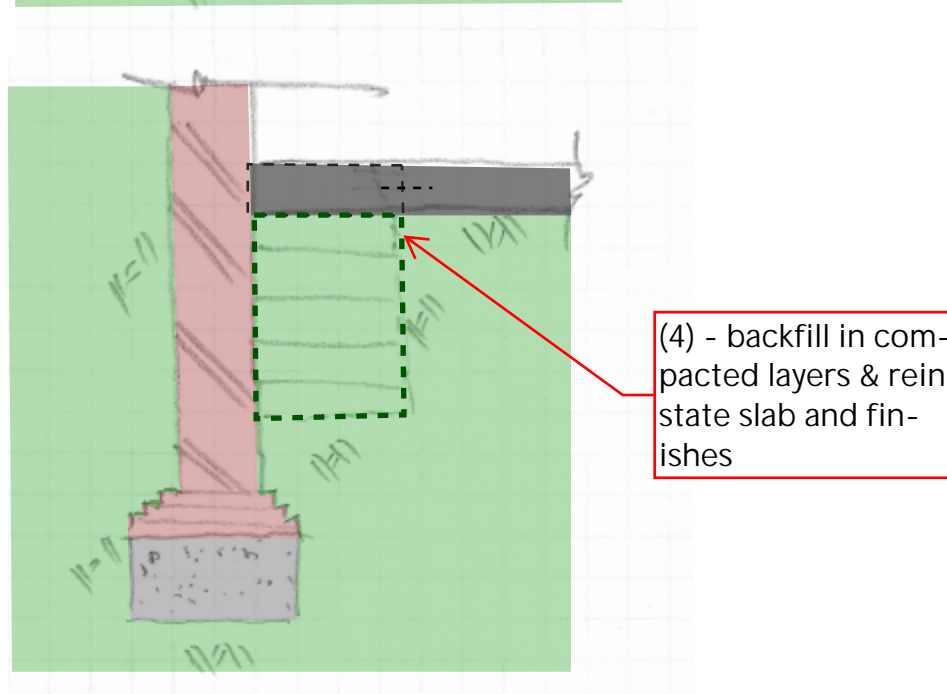
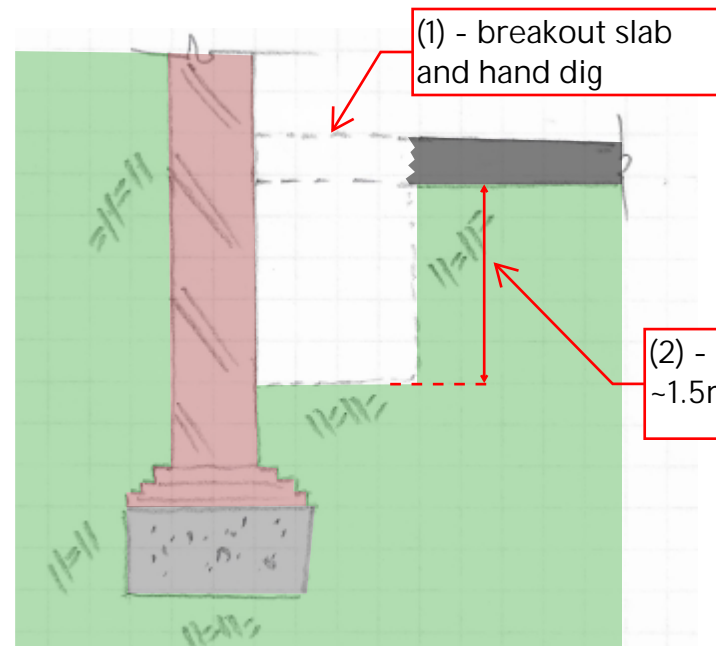
Purpose of these trial pits is to determine the depth of the foundation underneath the masonry walls in the vault area.

1) Break out existing slab and hand dig trial pit to determine depth and projection of existing foundation and type of ground. Where digging pits next to existing brick footings, care is to be taken to ensure that the brick corbels are not damaged during excavation.

2) Hole to be approx. 800mm sq (or to contractor's preference) and dug to 100mm below the existing foundation.

3) Record foundation type, depth and type of material observed.

4) Backfill hole in compacted layers and reinstate slab/finishes.



TP3/4 - GF walls

A new strip footing is being built as part of the refurbishment works. The purpose of the trial pits is to record/note the ground conditions.

1) Break out existing slab and hand dig trial pit to 1.5m deep and record type of material observed (made ground/gravel, etc.). Where digging pits next to existing brick walls/footings, care is to be taken to ensure that they are not damaged during excavation.

2) Hole to be approx. 800mm sq (or to contractor's preference) and dug to ~1.5m deep.

3) Record type and depth of material observed, including any noticeable features around the existing walls.

4) Backfill hole in compacted layers and reinstate slab/finishes.

Contractor undertaking these works are to prepare appropriate Risk assessments and method statements prior to works for the Engineer to comment on. This includes installing appropriate shoring/support provisions for open excavations.

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