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DESIGNER'S METHOD STATEMENT

SUNNYSIDE HIGH STREET CULWORTH OXFORDSHIRE OX17 2BG



C12/3707

Job Reference

**Anthony M R Gill BEng(Tech) CEng MStructE
Chartered Structural Engineer**

Structural Engineer

Issue 01 – 2012/08/08

Issue



1. History:

Issue	Date	By	Checked	Purpose
01	2012/08/08	A M R Gill	D J Mills	For Approval

2. Remit:

David Smith Associates were approached by Mr J Courtney-Thompson of MJCT Architects, The Stables, Hardwick Business Park, Banbury, Oxon, OX16 2AF, acting for Mr & Mrs Field of Sunnyside, High Street, Culworth, to assist by providing a Method Statement to enable the construction of a new garage without detriment to the structure, integrity and stability of the adjacent listed stone wall.

Provided the Method Statement is accepted and approval/consent is obtained for the proposed garage, DSA are retained to provide the structural calculations and details necessary for the construction thereof.

3. Site Visit:

A site visit was undertaken on Monday 30th July 2012 at 09:00 by Mr Anthony Gill, when the weather was dry and warm.

A visual inspection only was made and no trial pits, boreholes or other intrusive investigations were carried out.

A number of photographs were taken and these are included below.

The wall was measured as approximately 500 mm wide at the end of the wall facing the road.

Wall height was measured using a steel tape on either side and this gave a maximum retained height of approximately 2.0 m.

The masonry appeared to be in good condition with no bulges or delamination of the facings noticed. Some repairs have been undertaken in the past, particularly at or just under the capping mortar. This is quite common and is usually a result of moisture ingress through or under the capping.



Views of East Elevation



4. Designer's Method Statement:

4.1. Disclaimer:

- i. This Method Statement is written on the understanding that a competent Contractor experienced in working with and adjacent to listed structures will be appointed to undertake the construction on this project.
- ii. The Designer has undertaken the design without reference to, or the benefit of, any ground investigation works and cannot, therefore, provide any further information in this regard.
- iii. The Designer has not been retained to inspect the works during the construction phase or to provide any other supervisory services. Therefore, the Contractor is solely responsible for all aspects of the construction, including all temporary works designs etc. that may be required to safely undertake the work.
- iv. The design has been undertaken on the basis that this Method Statement will be followed. If the Contractor wishes to amend the methodology or procedures to suit his own program etc. then this may have an impact on the design and the Contractor will need to take this into account. The Designer will not be liable for any such changes.

4.2. Design:

Principle:

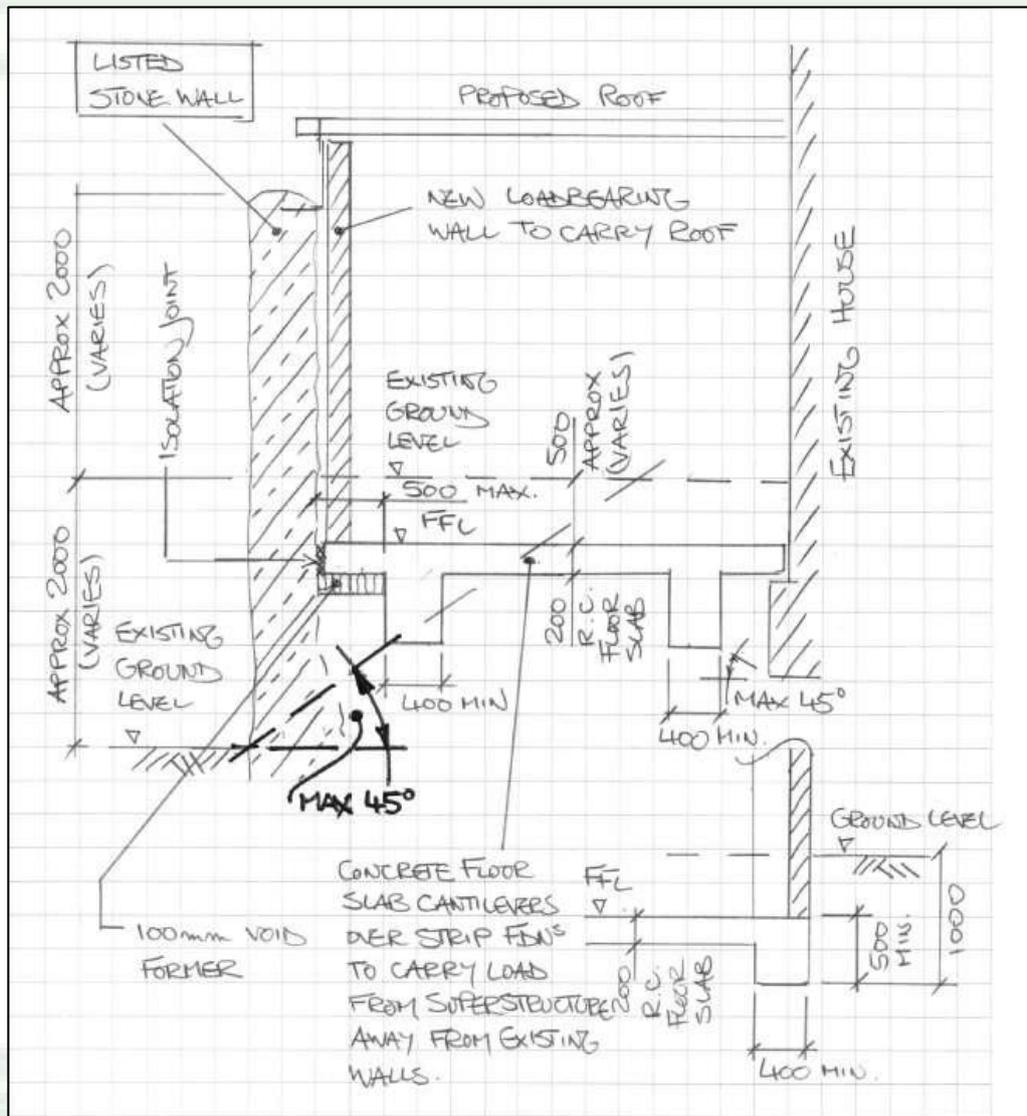
The design is to be such as to allow the Contractor to construct the proposed garage without causing any detriment or distress to the adjacent listed stone wall.

Method:

No additional permanent works will be required to the listed stone wall as the design will not apply any additional loads on the upslope (eastern) side of the wall.

Loads will be taken away from the wall by the floor slab cantilevering up to 500 mm maximum onto and over an integral strip footing, minimum 400 mm wide, taken down to a level that is less than 45° above the ground level on the downslope (western) face of the wall. An isolation joint and void former under the cantilever part of the slab will ensure there are no additional lateral forces from the proposed construction applied to the wall in the permanent condition.

This is all indicated in the sketch included below.



It is to be noted that the internal floor level of the garage will be below the existing ground level. This reduction in overburden pressure together with the removal of transient and other vertical loads at the upper level will lessen the forces the wall has to resist and improve its stability.

4.3. Construction:

Principle:

The Contractor is to construct the proposed tandem garage on the upslope (eastern) side of the listed stone wall without causing any detriment or distress to said stone wall in the process of carrying out the works.

Method:

No construction plant is to be closer to the stone wall than a line drawn from 45 ° above the ground level on the downslope (western) face of the wall, unless the contractor provides designed temporary works to adequately buttress the wall. Such temporary works must not leave any permanent marks, scars or patched holes on the face of the wall.

Contractor is to consider protecting the upper part of the wall to prevent damage to it by plant and workforce.

Movement of construction plant to be closely monitored to ensure no impact with the wall.



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 For and behalf of David Smith Associates