



**November 10, 2017**

Camille Corvec  
Symmetrys Ltd  
Unit 6 The Courtyard,  
Lynton Road,  
London, N8 8SL

**RE: Proposed development at Rochester Square Spiritualist Temple, Rochester Square, London NW1 9RY**

**Dear Camille:**

Further to our recent correspondence and discussions I can confirm that we have produced the following technical reports and documents in relation to the proposed development at Rochester Square Spiritualist Temple:

- LMB Geosolutions Ltd (ref. LMB.16.12.07\_REPPIL\_GI\_Rochester\_v1.1\_ALL, dated 7<sup>th</sup> December 2016). Ground Investigation & Assessment Report.
- LMB Geosolutions Ltd (ref. LMB.16.12.07\_REPPIL\_BIA\_RochesterSq\_v1.0\_ALL, dated 7<sup>th</sup> December 2016). Basement Impact Assessment Report.
- LMB Geosolutions Ltd (ref. LMB\_16.12.20\_PILLET\_Rochester\_1.0, dated 20<sup>th</sup> December 2016). Update Letter.

### **Amendments to Proposed Development**

The update letter referenced above confirmed that proposed changes to finished floor level would not significantly alter the conclusions and recommendations provided within the above referenced reports.

More recently the following drawings have been provided in relation to additional proposed changes to the basement design at the Rochester Square Spiritualist Temple:

- Spacelab (ref. 1606, Dated 06.09.17). Rochester Square, Camden. Proposed Plans – Basement Plan.
- Spacelab (ref. 1606, Dated 06.09.17). Rochester Square, Camden. Proposed Plans – Ground Floor Plan.
- Symmetrys (ref. 2016061, dated November 2017). Former Spiritualist Temple Rochester Square, London NW1. Proposed Construction Method Statement.
- Symmetrys (ref. 2016061, dated November 2017). Former Spiritualist Temple Rochester Square, London NW1. Typical Underpinning Sequence.

Based on review of the above drawings and discussions with Symmetrys Ltd (Consultant Engineers), the proposed amendments can be summarised as follows:

- It is proposed to use underpins to form the basement rather than a secant pile wall;
- Temporary support will be provided by sheet piles; and
- The basement area will be reduced by approximately 50% of the original area proposed and will only be formed beneath the existing rear garden area.

## Appraisal of Amendments

### Foundations

The formation level for the basement will remain c. 4.00-4.50m below ground level (bgl) and will be founded on the competent firm to stiff London Clay. As such the amendments should be of no consequence in terms of the allow bearing pressure and/or founding strata.

### Ground Movements

A Ground Movement Assessment (GMA) was completed as part of the Basement Impact Assessment (BIA) for the original design. The GMA was completed in accordance with CIRIA publication C580 Embedded Retaining Walls – Guidance for Economic Design. C580 provides curves estimating horizontal and vertical ground surface movements due to piled wall installation and to excavation in front of wall.

The GMA completed in this way assumed installation of a secant pile wall and not underpins with temporary support provided by sheet piles. The depth of the basement wall was assumed to be 7m and it is anticipated that the temporary support provided by the sheet piling will be of a similar depth. It is understood that 'push in' sheet piles will be installed rather than vibration ones to minimise movements.

The area of the proposed basement has significantly decreased and thus the number of potential surrounding buildings impacted has decreased and there will no longer be an excavation along the party wall of the adjacent building.

### Conclusions

Based on the information presented above, the existing GMA is likely to be overly conservative when considering current proposed basement development and as such it is concluded that the predicted ground movement presented within the existing GMA will not be exceeded and the amended development should not result in additional ground movement induced impacts.

I trust the above and appended information is of use. However, if you require any further information then please feel free to contact me at your convenience.

Sincerely,



**Philip Lewis BSc (Hons), MSc, CGeol, FGS**  
**Director**  
**LMB Geosolutions Ltd**

**T: 020 3198 6481 | M: +44 (0) 7739735097 | E: [philip@lmbgeosolutions.com](mailto:philip@lmbgeosolutions.com)**