

## STRUCTURAL STATEMENT

ON

8 GLOUCESTER GATE LONDON NW1 4HG

**FOR** 

PLANNING APPLICATION

PROJECT NO: P5720

**AUGUST 2024** 

Version 1.1

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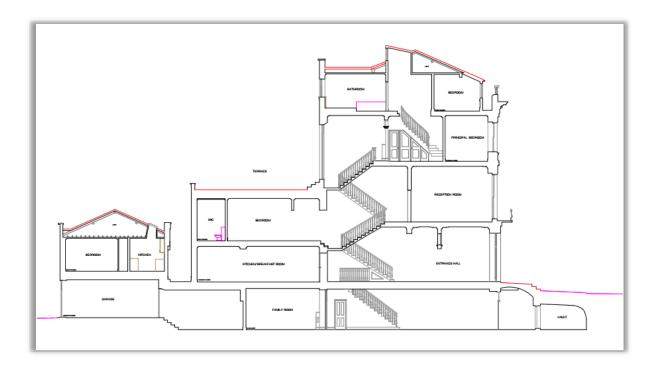


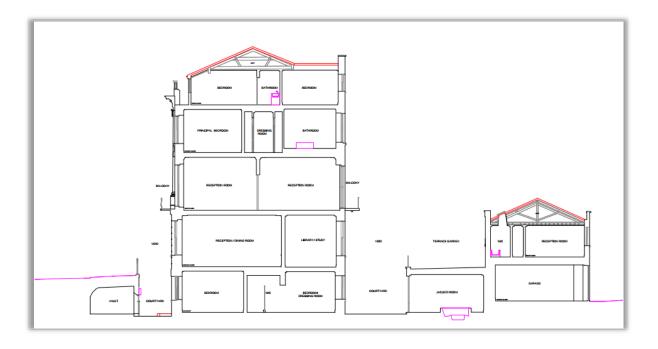
### 1.00 INTRODUCTION

- 1.01 Michael Alexander Consulting Engineers has been appointed by Mr Dory Gabbay, Owner of the 8 Gloucester Gate, London NW1 4HG, to advise on the structure of the property and the proposed structural alterations. This document provides a summary of the existing structure, exploratory works and proposals, and shall be read in conjunction with all other documents submitted with the Planning and Listed Building Applications.
- 1.02 Michael Alexander Limited has considerable experience of working on historic and listed buildings and has carried out refurbishment and renovation projects on properties in the vicinity of the site and around Regents Park, including nearby St Katherines Precinct, Cumberland Terrace, Hanover Terrace and York Terrace.
- 1.03 This report has been prepared by Mr John McSweeney BSc(Hons) CEng MICE MIStructE, a Chartered Engineer and Director of Michael Alexander Consulting Engineers. The report is for the sole use of the Client and his advisors.

### 2.00 EXISTING CONSTRUCTION

- 2.01 The Grade 1 Listed building is described in detail by Dowen Farmer Architects in their Design and Access Statement for Planning. The construction of the building is typical of a property of this age and nature; however, it has been subject to a number of past interventions and alterations, the most recent being the construction of the closet wing.
- 2.02 The details of the existing construction have been verified by exploratory works, which involved the careful removal of localised areas of the finishes and floor coverings and boarding to expose the floor joists and their bearings. Trial holes have been excavated to establish the details of the existing foundations and localised ground conditions.
- 2.03 The locations of the exploratory works are shown on the Michael Alexander drawings nos. P5720 EW 01 and EW02, which are included in **Appendix A**.
- 2.04 The exploratory works were carried out under the supervision of Michael Alexander and in such a manner to minimise disruption to the surrounding fabric of the building.
- 2.05 The photographic record and brief description of the findings of the exploratory works are included in **Appendix B**.
- 2.06 The floors of the building are predominately timber joisted construction, supported on the external masonry walls and on internal loadbearing timber and masonry walls. The lower ground floor is a ground bearing concrete slab. The ground conditions in the vicinity are known to be variable, and the original building is founded on shallow corbelled brick footings; there are mass concrete footings under the more recent rear extensions.







### 3.00 PROPOSED STRUCTURE

### Refer to MA Drawings in Appendix C

3.01 Where the proposed alterations to the building shall require the removal of elements of the existing structure, the alterations to the historic fabric, and the installation of the proposed new structure, shall be designed using well establish conservation techniques to minimise the effect on the retained historic fabric.

#### **Main House**

- 3.02 The proposed interventions into the Main House are of a minimal structural nature and include the removal of non-load bearing partitions, many of which are additions to the original construction.
- 3.03 New openings are to be formed through masonry walls in the lower ground and ground floors, where precast concrete lintels shall be installed above the new openings. If sections of the retained brickwork are found to be in poor condition, or inadequate, they will be replaced with new brickwork bonded into the existing.
- 3.04 The existing floors appear to be sufficiently robust and commensurate with a building of this age and nature; however, it is inevitable that timber joists will have been cut, notched and drilled for past services installations. Where floor boarding is to be lifted, the joist shall be inspected and strengthened/supplemented, as necessary. The floors shall be levelled with the use of timber firring pieces on the existing joists and supplementary joists, where necessary.
- 3.05 New partitions in the lower ground floor shall be of a lightweight, non-loadbearing construction and supported on the existing concrete slabs.
- 3.06 The partitions in the second and third floors appear to be non-loadbearing; these shall be further inspected by Michael Alexander prior to commencement of the works to ensure that they are providing no support to the floors and roof over.
- 3.07 The existing downstand beam below the ceiling of the principal second floor room shall be raised into the structural zone of the third floor over, to provide flush ceiling; alternatively, the beam shall be replaced by a beam of equivalent properties on new bearings, if required.

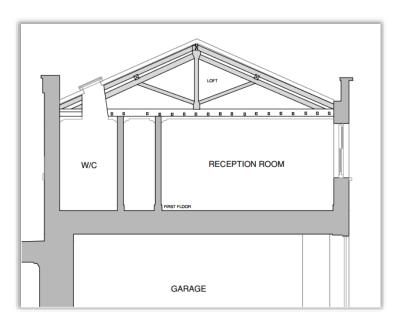
### **Closet Wing**

3.08 The Closet Wing shall be dismantled and replaced with a new structure. The party wall separating No.8 from No.7 Gloucester Gate shall be temporarily retained during the works, which shall be subject to Notices under the Party Wall etc. Act 1996.

- 3.09 Temporary works to retain party wall shall be designed to ensure that there is no disruption to the subject or adjoining property and, where possible, the proposed permanent structure shall be installed prior to dismantling the existing structure and designed to provide temporary support to the party walls.
- 3.10 The new structure shall be steel framed with a concrete ground floor and timber first floor and roof. The new structure shall be supported on mass concrete foundations, founded into natural ground at a similar level to the existing.
- 3.11 Steel columns and beams (channel sections) shall support the new structure adjacent to the Party Walls, to limit interventions into the historic fabric of the walls.

#### Mews

- 3.12 The structure of the Mews shall remain predominantly as existing, other than the forming of new openings in the rear (west) wall and the remodelling of the roof structure, which shall incorporate a new rooflight.
- 3.13 The original timber roof trusses would have been visible from the first floor prior to the, more recent, installation of the existing ceiling. The ceiling shall be removed to expose the trusses which shall be relocated to provide a larger open roof space.
- 3.14 Existing rafters and purlins shall be reused, where possible and new purlins to span the increased distance between the trusses shall comprise timber/steel flitch beams. The relocated trusses shall be supported on concrete spreaders to distribute the load of the roof onto the existing masonry walls.





# **APPENDIX A**

**MA EXPLORATORY WORKS DRAWINGS** 











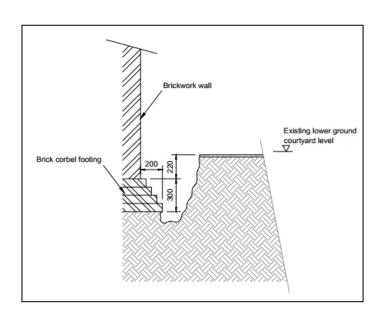
# **APPENDIX B**

# PHOTOGRAPHS AND DESCRIPTION

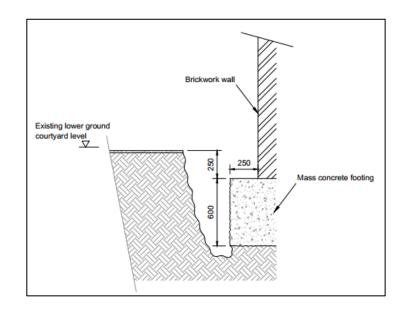




LOWER GROUND FLOOR TP1
75mm sand cement screed on 250mm thick concrete slab



LOWER GROUND FLOOR TP3
Corbelled brick footing



LOWER GROUND FLOOR TP4
Mass Concrete trench fill footing



LOWER GROUND FLOOR TP5
Concrete slab (depth not determined)

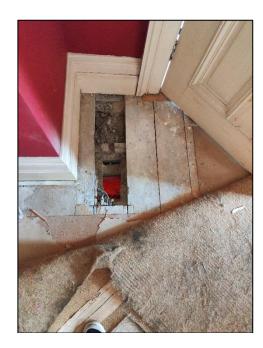


LOWER GROUND FLOOR BW1
Sand cement render on 215mm (9") loadbearing brickwork wall

Sand cement render on 215mm (9") loadbearing brickwork wall

LOWER GROUND FLOOR BW2





**GROUND FLOOR G1**Timber boarding on timber joists (270mm x 50mm at 320mm centres)



**GROUND FLOOR G2**Timber boarding on timber joists (250mm x 50mm at 300mm centres)



**GROUND FLOOR G3**Timber boarding on timber joists (225mm x 50mm at 300mm centres)



**GROUND FLOOR G4**Timber boarding on timber joists (250mm deep)



**GROUND FLOOR G5**Timber boarding on timber joists (225mm x 50mm)

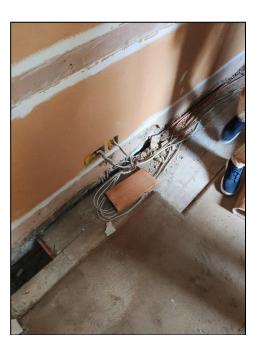


**GROUND FLOOR G6**Paviors on asphalt on concrete slab





**GROUND FLOOR GC1**Plasterboard ceiling on timber ceiling joists



**GROUND FLOOR GW1**Plaster on brickwork partition



FIRST FLOOR F1
Timber boarding on timber joists



FIRST FLOOR F2
Timber boarding on timber joists

Plaster on timber studwork partition





SECOND FLOOR S1
Timber boarding on timber joists with pugging

FIRST FLOOR FW1





SECOND FLOOR S2
Timber boarding on timber joists



SECOND FLOOR SW1
Plaster on timber studwork partition



THIRD FLOOR T1
Timber boarding on timber joists



THIRD FLOOR T2
Timber boarding on timber joists



THIRD FLOOR T3
Timber boarding on timber joists

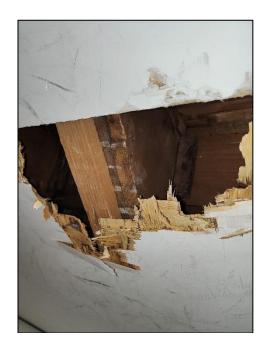


THIRD FLOOR TW1
Plaster on metal lathe on timber studwork





THIRD FLOOR TW2
Render on brickwork partition



THIRD FLOOR STAIR
Timber boarding on stair soffit



# **APPENDIX C**

# **MA PROPOSED DRAWINGS**



