#### REPORT

Mountview Lodge 9 Swiss Terrace London NW6 4RR

Daylight and Sunlight To Neighbouring Buildings

October 2018



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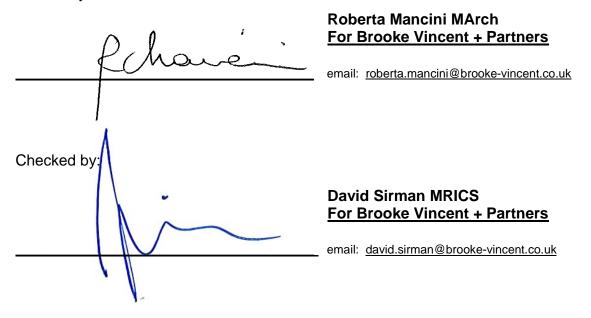
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Drafted by:





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#### 9<sup>th</sup> October 2018

### Mountview Lodge, 8 Swiss Terrace, London NW6 4RR

#### Daylight & Sunlight

We are instructed to report upon the daylight and sunlight aspects of this Planning Application for a three-storey roof extension in relation to the neighbouring residential properties.

Our report is based upon the scheme drawings prepared by Woods Hardwick Ltd, OS map, photographs and information available on the planning portal, plus daylight and sunlight studies as further detailed.

#### 1. <u>SUMMARY</u>

- 1.1. This report has been drafted by reference to the Building Research Establishment (BRE) publication (2011), *"Site Layout Planning for Daylight and Sunlight. A Guide to Good Practice"* and local planning policy.
- 1.2. Our studies have confirmed that the amenity values of daylight and sunlight to the neighbouring residential properties would be retained to a level that would satisfy the BRE criteria. The single exception should not negate an otherwise good set of results.
- 1.3. Similarly, our studies have confirmed that the daylight within the proposed residential accommodation would satisfy the BRE criteria. Sunlight availability would vary in response to aspect and the layout ensures that the London Plan would be satisfied.
- 1.4. The closest neighbouring amenity area would not be subject to any difference in permanent overshadowing.
- 1.5. In summary, the scheme has been designed to respect BRE's criteria and therefore the relevant policy within Camden's local plan.



#### 2. PLANNING POLICY

#### 2.1. London Borough of Camden

2.1.1. The Camden Local Plan replaced the Council's Core Strategy and Development Policies in July 2017. The relevant policy is listed below:

#### Policy A1 Managing the impact of development

The Council will seek to protect the quality of life of occupiers and neighbours. We will grant permission for development unless this causes unacceptable harm to amenity.

We will:

a. seek to ensure that the amenity of communities, occupiers and neighbours is protected;

• • •

d. require mitigation measures where necessary.

The factors we will consider include:

• • •

e. visual privacy, outlook; f. sunlight, daylight and overshadowing;

• • •

Camden's Local Plan also refer to supplementary planning document Camden Planning Guidance CPG: Amenity, which states as follows:

#### KEY MESSAGES:

• The Council expects applicants to consider the impact of development schemes on daylight and sunlight levels. Where appropriate a daylight and sunlight assessment should be submitted which should be follow the guidance in the BRE's Site layout planning for daylight and sunlight: A guide to good practice.

• The 45° and 25° tests cited in the BRE guidance should be used to assess ('screen') whether a sunlight and daylight report is required.

• Levels of reported daylight and sunlight will be considered flexibly taking into account site-specific circumstances and context.

• The Council may seek independent verification of sunlight and daylight reports if necessary.

### 2.2. The London Plan 2016 (Including Housing Standards minor alterations - March 2016)

- 2.2.1. The DMLP must be read in conjunction with the other relevant plans and guidance, such as the London Plan. *"The London Plan provides a framework for managing London's growing population. It has important implications for the DMLP as it sets out London-wide policies (including targets) for housing, transport, employment and the environment that need to be reflected at the borough level. The DMLP is 'in general conformity' with the contents of the London Plan".*
- 2.2.2. The Housing Supplementary Planning Guidance (HSPG) 2016, defines in greater detail the London Plan's approach to Housing requirements and standards. Those aspects of the HSPG that are relevant to this report are mostly relevant to the London Plan Policy 3.5 Quality and Design of Housing Development, and as detailed below.

#### 2.3. Housing Supplementary Planning Guidance – March 2016

#### 2.3.1. Daylight and Sunlight

**Standard 32** – All homes should provide for direct sunlight to enter at least one habitable room for part of the day. Living areas and kitchen/dining spaces should preferably receive direct sunlight.

The explanatory notes that follow Standard 32 include the following comments:

2.3.45 "... In addition to the above standards, BRE good practice guidelines and methodology can be used to assess the levels of daylight and sunlight achieved within new developments, taking into account guidance below and in Section 1.3".

Section 1.3 is entitled 'Optimising Housing Potential' and confirms that "... 'optimisation' can be defined as 'developing land to the fullest amount consistent with all relevant planning objectives'...".

2.3.46 "Where direct sunlight cannot be achieved in line with Standard 32, developers should demonstrate how the daylight standards proposed within a scheme and individual units would achieve good amenity for residents...".

2.3.47 "BRE guidelines on assessing daylight and sunlight should be applied sensitively to higher density development in London, particularly in central and urban settings, recognising the London Plan strategic approach to optimising housing output (Policy 3.4) and the need to accommodate additional housing supply in locations with good accessibility suitable for higher density development (Policy 3.3). Quantitative standards on daylight and sunlight should not be applied rigidly without carefully considering the location and context and standards experienced in broadly comparable housing typologies in London".

#### 2.3.2. Dual Aspect

**Standard 29** – Developments should minimise the number of single aspect dwellings. Single aspect dwellings that are north facing or exposed to noise levels above which significant adverse effects on health and quality of life occur, or which contain three or more bedrooms should be avoided.

The explanatory notes that follow Standard 29 include the following comments:

2.4.37 "Dual aspect dwellings with opening windows on at least two sides have many inherent benefits. These include better daylight, a greater chance of direct sunlight for longer periods...".

2.4.39 "... The design of single aspect flats will need to demonstrate that all habitable rooms and the kitchen are provided with adequate ventilation, privacy and daylight and the orientation enhances amenity, including views. North facing single aspect dwellings should be avoided wherever possible. However, in applying this standard consideration should also be given to other planning and design objectives for a site, for example the aim to maximise active frontages and minimise inactive frontages".

2.4.41 "In single aspect dwellings with more than two bedrooms it is difficult to achieve adequate natural ventilation and daylight to all rooms in an efficient plan layout which avoids long internal corridors. Single aspect dwellings containing three or more bedrooms should therefore be avoided. The design of single aspect ground floor dwellings will require particular consideration to maintain privacy and adequate levels of daylight".

2.3.3. **Policy 7.6 Architecture** – "...B. Buildings and structures should not cause unacceptable harm to the amenity of surrounding land and buildings, particularly residential buildings, in relation to privacy, overshadowing, wind and microclimate. This is particularly important for tall buildings.

The explanatory notes that follow Policy 7.6 include the following comments:

1.3.45 Policy 7.6Bd requires new development to avoid causing 'unacceptable harm' to the amenity of surrounding land and buildings, particularly in relation to privacy and overshadowing and where tall buildings are proposed. An appropriate degree of flexibility needs to be applied when using BRE guidelines to assess the daylight and sunlight impacts of new development on surrounding properties, as well as within new developments themselves. Guidelines should be applied sensitively to higher density development, especially in opportunity areas, town centres, large sites and accessible locations, where BRE advice suggests considering the use of alternative targets. This should take into account local circumstances; the need to optimise housing capacity; and scope for the character and form of an area to change over time.

1.3.46 The degree of harm on adjacent properties and the daylight targets within a proposed scheme should be assessed drawing on broadly comparable residential typologies within the area and of a similar nature across London. Decision makers should recognise that fully optimising housing potential on large sites may necessitate standards which depart from those presently experienced but which still achieve satisfactory levels of residential amenity and avoid unacceptable harm.

2.4. The London Plan and HSPG do not provide numerical values for daylight or sunlight. Those given in this report are based upon the BRE guidance referred to above, in explanatory note 2.3.47 and more fully detailed in the item that follows this.

### 3. METHOD OF CALCULATION

#### **Building Research Establishment**

3.1. The calculations and considerations within this report are based upon the Building Research Establishment (BRE) publication 2011 "Site Layout Planning to Daylight and Sunlight. A Guide To Good Practice". This is referred to by Local Authorities as a means of articulating their policy. BRE confirm that the Guide does not contain mandatory requirements and in the **Introduction** provides a full explanation of its purpose:

"The Guide is intended for building designers and their clients, consultants and planning officials."

"The advice given here is not mandatory and this document should not be seen as an instrument of planning policy." "It aims to help rather than constrain the designer."

"Although it gives numerical guidelines these should be interpreted flexibly since natural lighting is only one of many factors in site layout design."

"In special circumstances the developer or planning authority may wish to use different target levels. For example, in an historic city centre, or in an area with high rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings."

#### 3.2. Modelling and Results

- 3.2.1. Our analysis and subsequent results are produced by the application of our specialist software on our three-dimensional model, images of which are included in Appendix 1. This is based upon survey information, supplemented by photographs, plus the architect's plan drawings also included in Appendix 3.
- 3.2.2. In this model, the existing site building is defined in blue, the neighbouring buildings in grey and the proposed building in light brown.

#### 3.3. Daylight

- 3.3.1 Daylight is not specific to a particular direction, as it is received from the dome of the sky.
- 3.3.2. Reference is made in the BRE report to various methods of assessing the effect a development will have on diffused daylight.
- 3.3.3. The simplest methods are not appropriate in an urban environment, where the built form is invariably complex. Vertical Sky Component (VSC) is the calculation most readily adopted, as the principles of calculation can be established by relating the location of any particular window to the existing and proposed, built environment.
- 3.3.4. The BRE Guide states *"If any part of a new building or extension, measured in a vertical section perpendicular to a main window wall of an existing building, from the centre of the lowest window, subtends an angle of more than 25<sup>°</sup> to the horizontal, then the diffused daylighting of the existing building may be adversely affected.*

This will be the case if the Vertical Sky Component measured at the centre of an existing main window is less than 27% and less than 0.8 times its former value".

- 3.3.5. Where the VSC calculation has been used, BRE also seeks to consider daylight distribution within neighbouring rooms, once again defining an adverse effect as a result that is less than 0.8 the former value. Access is rarely available and we have therefore taken a reasoned approach.
- 3.3.6. The third method is known as Average Daylight Factor (ADF). This is the most comprehensive of daylight calculations defined by BRE and is only appropriate when all relevant information is available. Drawings gained from the planning department have provided BVP with the requisit knowledge.
- 3.3.7. The initial calculation is Vertical Sky Component which measures the value of daylight received at the centre of the window face. The area of glazing through which the light is transmitted and the transmission value of the glazing is then considered. Within the room the total surface area is calculated and a degree of reflection applied. The

outcome is then compared to the values recommended by BRE. Assuming that the rooms are used in conjunction with artificial lighting the minimum recommended ADF levels are:

2%	Kitchen or combined kitchen and living space
1.5%	Living room and study

1% Bedroom

Where kitchens have been sited at the rear of the room these are to be served by task lighting in the modern mode.

- 3.3.8. Where a room is served by more than one window, ADF calculations are made in relation to each window and the individual results added together to provide the true ADF for that room. In the results there will be the occasional suffix 'u' or 'l'. This refers to full height glazing and BRE's requirement that the window is split into two parts, above and below the reference plane.
- 3.3.9. The following assumptions have been made with regard to the various elements when computed, produce the ADF value:
  - Glazing transmittance 0.68 for the double glazing (BRE default reading)
  - Net glazed area of the window 0.8 (BRE default reading)
  - Interior surface reflectance neighbouring buildings 0.5 (BRE default reading)
    proposed accommodation 0.6 (BRE default 0.5)
  - Reflectance beneath reference plane neighbouring buildings 0.15 (BRE default reading)
    - proposed accommodation 0.2 (BRE default 0.15).

#### 3.4. Sunlight

#### 3.4.1. The BRE *Guide to Good Practice* confirms:

- (i) Sunlight is only relevant to neighbouring residential windows which have a view of the proposed development and face within 90° of south, i.e. south of the eastwest axis.
- (ii) If any part of a new development subtends an angle of more than 25° to the horizontal measured from the centre of the main living room window, a vertical section perpendicular to the window, then the sunlighting in the existing dwelling may be adversely affected.
- (iii) Similarly, the sunlight availability to an existing dwelling may be adversely affected if the APSH, when measured at the centre of the window is reduced by more than 4%.
- (iv) Should the loss be greater than 4%, then sunlight availability may be adversely affected if the centre of the window receives less than 25% of the annual probable sunlight hours, of which 5% of the annual total should be received between 21 September and 21 March (winter) and less than 0.8 times its former sunlight hours during either period.
- (v) Kitchens and bedrooms are less important, although care should be taken not to block too much sun.
- 3.4.2. Proposed accommodation "will appear reasonably sunlit provided":
  - at least one main window wall faces within 90° of due south; and
  - the centre of at least one window to a main living room can receive 25% of annual probably sunlight hours, including at least 5% of annual probable sunlight hours in the winter months between 21 September and 21 March.
  - In housing, the main requirement for the sunlight is living rooms... It is viewed as less important in bedrooms and in kitchens.

3.4.3. BRE acknowledges that a simple layout strategy can be an issue for flats:

"Sensitive layout design of flats will attempt to ensure that each individual dwelling has at least one main living room which can receive a reasonable amount of sunlight. In both flats and houses, a sensible approach is to try to match internal room layout with window/wall orientation. Where possible, living rooms should face the southern or western parts of the sky and kitchens towards the north or east.

The overall sunlighting potential of a large residential development may be initially assessed by counting how many dwellings have a window to a main living room facing south, east or west. The aim should be to minimise the number of dwellings whose living rooms face solely north, north east or north west, unless there is some compensating factor such as an appealing view to the north."

3.4.4. BRE then provides an example of "*careful layout design*" in which "*four out of the five flats shown have a south-facing living room*". This example is provided without having to consider the site constraints that impact upon most urban locations.

#### 3.5. Permanent Overshadowing

3.5.1. BRE explains that sunlight in the spaces between buildings has an important impact and is important for a number of reasons. It therefore recommends that:

"The availability of sunlight should be checked for all open spaces where it will be required. This would normally include:

- gardens, usually the main back garden of a house;
- parks and playing fields;
- outdoor swimming pools and paddling pools;
- sitting out areas, such as those between non-domestic buildings and in public squares;
- focal points for views, such as a group of monuments or fountains.
- 3.5.2. BRE recognises that each of these spaces will have different sunlight requirements and suggests the Equinox (21 March) is chosen as a date for assessment:

"It is recommended that at least half of the amenity areas listed above should receive at least two hours of sunlight on 21 March. If a detailed calculation cannot be carried out and the area is a simple shape, it is suggested that the centre of the area should receive at least two hours of sunlight on 21 March."

3.5.3. Further BRE guidance recommends that sunlight should not be reduced by 0.8 times its former value:

"If an existing garden or outdoor space is already heavily obstructed then any further loss of sunlight should be kept to a minimum. In this poorly sunlit case, if as a result of new development, the area which can receive two hours of direct sunlight on 21 March is reduced to less than 0.8 times its former size, this further loss of sunlight is significant. The garden or amenity area will tend to look more heavily overshadowed".

### 4. DAYLIGHT RESULTS

#### **Neighbouring Buildings**

4.1. West

8 Swiss Terrace

- 4.1.1. Adjacent to the west of the development site is this block of flats. A number of windows on the front elevation have a peripheral view of the proposed extension and therefore, they have been analysed.
- 4.1.2. BRE provides the appropriate advice, which we have reiterated in item 3.3.4 of our report. This states that an adverse effect would occur if the proposed value was not only less than 27% VSC but also less than 0.8 of the former (existing) value. This would not occur, with all results well above 0.8 and the BRE criteria would be fully satisfied.
- 4.1.3. We have not sought access to this property because it was not considered necessary. It can be seen that the proposed values for daylight at the face of all the windows are

very similar to the existing value. There can be no expectation of a significant reduction in Daylight Distribution within the room.

Harben Road – Hickes House

- 4.1.4. Further west is this block of flats. A number of windows looking in to the galleries, to the rear and in the northern portion of the building, have a view of the development site.
- 4.1.5. Half of the windows serve non-habitable rooms and therefore there would be no BRE criteria to meet. The VSC results in Appendix 2 confirm the existing VSC figures in all locations are below BRE's threshold of 27% VSC and the value in the proposed condition inevitably follows suit. In any case, the proposed reading would be above 0.8 the existing value and therefore, there would be no adverse effect.
- 4.1.6. We have also given consideration to rooms size and daylight within. The results confirm that the daylight in the proposed condition would remain the same as or, close to, the existing condition and therefore, there would be no adverse effect.
- 4.2. North

Harben Road – Campden House

- 4.2.1. To the north is a further block of flats. The windows on the south elevation directly face the proposed extension and have been tested.
- 4.2.2. The results in Appendix 2 confirm the proposed readings would be above either 27% VSC or 0.8 the existing value. The BRE criteria would be fully satisfied.
- 4.2.3. We have also tested the daylight distribution within the habitable rooms. The results confirm the daylight level would be remain in accordance with the BRE recommendation in all locations.

#### Mews Centre Heights

- 4.2.4. To the north east of the site is this new residential development, which is almost complete. Information on the internal layout is available on the planning portal. The windows with a view of the proposed extension have been tested.
- 4.2.5. The results confirm the great majority of the windows would have the VSC below the benchmark of 27% in the existing condition. This is due to the C-shape of the development itself. In any case, in all locations the proposed readings would remain above 0.8 the former value and therefore, there would be no adverse effect.
- 4.2.6. When the daylight distribution test is carried out, the results in Appendix 2 also confirm that the proposed daylight would be retained to adequate levels.
- 4.2.7. We have also tested the ADF as all the relevant information is available. The results are also included in Appendix 2. They confirm that in a number of locations the daylight readings were below the BRE recommended value in the existing condition. The proposed extension would not cause any significant additional effect, with the proposed readings at or above 0.96 the former value. The variation would be indiscernible to the occupants.
- 4.2.8. When the three sets of results are considered, the scheme would satisfy the BRE guidelines.

Centre Heights – 137 Finchley Road

- 4.2.9. To the immediate north stands this mixed-use building along Finchley Road. Residential accommodation is located at sixth floor level and above and we have analysed a number of windows on the rear elevation, closer to the proposal.
- 4.2.10. Information on the internal layout of this building is available on Camden's Planning Portal. Two of the windows tested, W5 and W6 to the southern end of the rear elevation, would fall short of BRE recommendations. Both windows serve the same bedroom and when the daylight distribution within the room in tested, the results confirm the retained daylight would be at 0.75 the former value. This falls slightly short

of the BRE recommended 0.8, although BRE recognises daylight distribution to "bedrooms should also be analysed although they are less important".

- 4.3. East
- 4.3.1. To the east there are no residential properties in proximity of the development site to consider.
- 4.4. South

#### Cresta House

- 4.4.1. This is a mixed used building to the south lying on the other side of a pedestrian walkway. Residential accommodation is located from the third-floor level upwards. Most of the windows on the side elevation serve staircase and hallways and therefore there would no BRE criteria to meet. The original duplex flat layout has been modified several times over the years. We were able to locate different layouts for the residential accommodation at both ends of the building and all of them suggest that none of the windows on the side elevations serve any habitable room. Again, there would be no BRE criteria to meet.
- 4.4.2. Other residential buildings further south of the development site have not been tested as either they face in a different direction or they are too distant to be affected.

#### 4.5. Proposed accommodation

- 4.5.1. For the purposes of this report, we have analysed ADF (which is fully explained in item 3.3.6 to 3.3.9) for all the residential habitable rooms from sixth to eighth floor levels. The results are detailed in Appendix 3 together with the architects' drawings.
- 4.5.2. The ADF results for habitable rooms would achieve the BRE recommended values in all locations. These are confirmed in the column immediately to the right of the proposed ADF value.

4.5.3. A very good set of daylight figures have been achieved and there would be adequate daylight to all the newly proposed habitable rooms.

#### 4.6. **Daylight Summary**

- 4.6.1. Our analysis has confirmed that the daylight availability to the neighbouring buildings would be retained in accordance with the BRE recommendations. The single exception should not negate an otherwise good set of results.
- 4.6.2. Within the proposed accommodation, the layout ensures that the habitable rooms would receive the benefit of good daylight and this has been confirmed by the results.

### 5. <u>SUNLIGHT RESULTS</u>

#### **Neighbouring Buildings**

- 5.1.1. The sunlight results are defined by the two right hand columns in Appendix 2 and adjacent to VSC results. Windows that do not face within 90<sup>o</sup> degrees of south are classified as 'north facing'. In these circumstances there is no criterion to meet.
- 5.1.2. Almost all the windows that face within 90° degrees of south would retain both annual and winter sunlight availability with proposed values similar to the existing. The only exceptions would be windows W5 and W6 at seventh floor level in Centre Heights. Both windows serve a bedroom and BRE recognises sunlight to bedrooms is less important that to living rooms. These exceptions should not negate an otherwise good set of results.

#### 5.2. **Proposed accommodation**

5.2.1. Site constraints in the urban environment often make sunlight availability recommendations difficult to achieve. The design ensures that Standard 5.5.2 of the London Plan HSPG is satisfied where it states that where direct sunlight cannot be achieved a good standard of daylight should be provided. The ADF results in this report confirm that values are in accordance with or above the recommended guidelines and therefore good amenity would be retained to any north facing living rooms.

#### 5.3. Sunlight Summary

- 5.3.1. Sunlight availability to neighbouring residential properties that face within 90° of south demonstrates that BRE's recommended values would be satisfied.
- 5.3.2. The proposed accommodation has a layout which has been well considered in relation to site constraints and would satisfy the London Plan.

#### 6. OVERSHADOWING RESULTS

#### Neighbouring Buildings

- 6.1.1. We have analysed the closest amenity area within the Mews Centre Heights development located at ground floor level and immediately to the north of the proposal.
- 6.1.2. The result confirms was below the BRE recommendation of two hours of sunlight on 50% of the area on 21 March in the existing condition and the proposed extension would not cause any additional overshadowing. The BRE criterion would be satisfied.

#### 6.2. **Overshadowing Summary**

6.2.1. The closest neighbouring amenity area would not be subject to any difference in permanent overshadowing. This would satisfy the BRE criteria.

#### 7. <u>SOURCES</u>

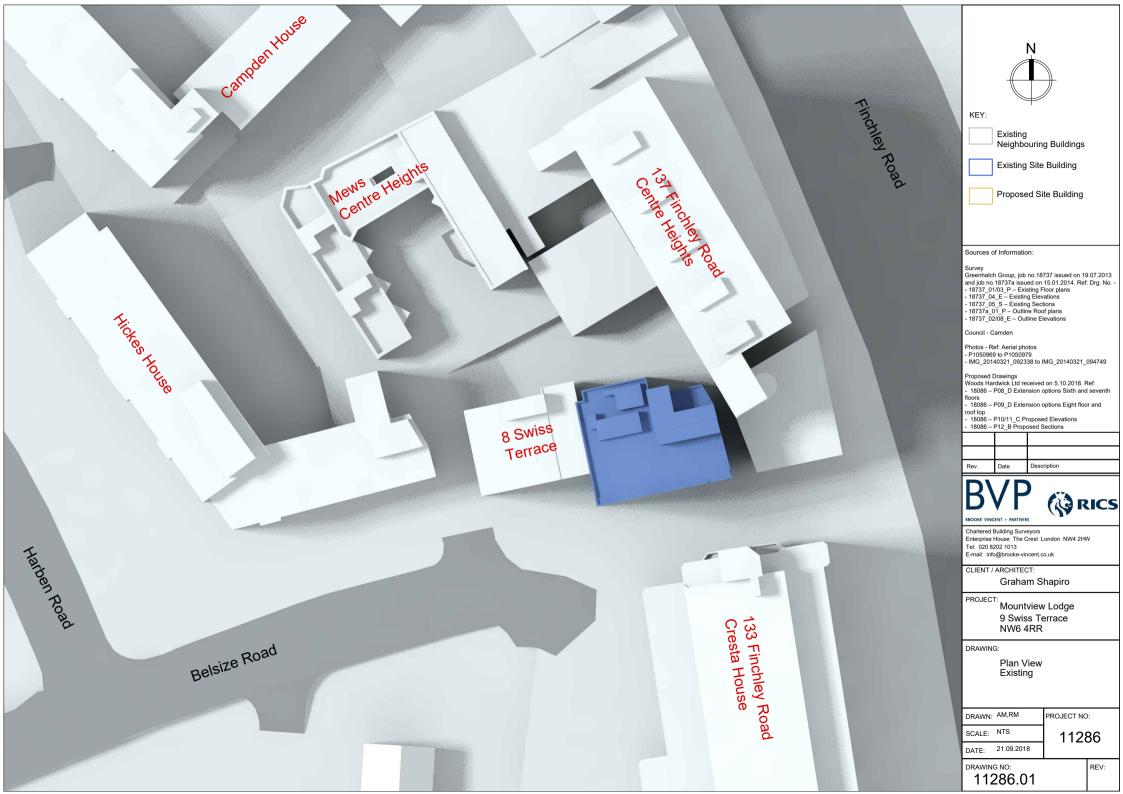
BVP's modelling and analysis are based on the following information:

- 7.1. Survey by Greenhatch Group, job No18737 issued on 19/07/2013 and No18737a issued on 15/01/2014. Ref:
  - 18737\_01/03\_P Existing Floor plans
  - 18737\_04\_E Existing Elevations
  - 18737\_05\_S Existing Sections
  - 18737a\_01\_P Outline Roof plans
  - 18737\_02/08\_E Outline Elevations
- 7.2. Final proposed set of drawings issued by Woods Hardwick Ltd on 5/10/2018. Ref:
  - 18086 P08\_D Extension options Sixth and seventh floors
  - 18086 P09\_D Extension options Eight floor and roof top
  - 18086 P10/11\_C Proposed Elevations
  - 18086 P12\_B Proposed Sections
- 7.3. Photos from site visit on February-March 2014. Ref:
  - P1050969 to P1050979
  - IMG\_20140321\_092338 to IMG\_20140321\_094749
- 7.4. Camden's planning portal. Ref-2015/2997/P amended drawings
- 7.5. Zoopla website.

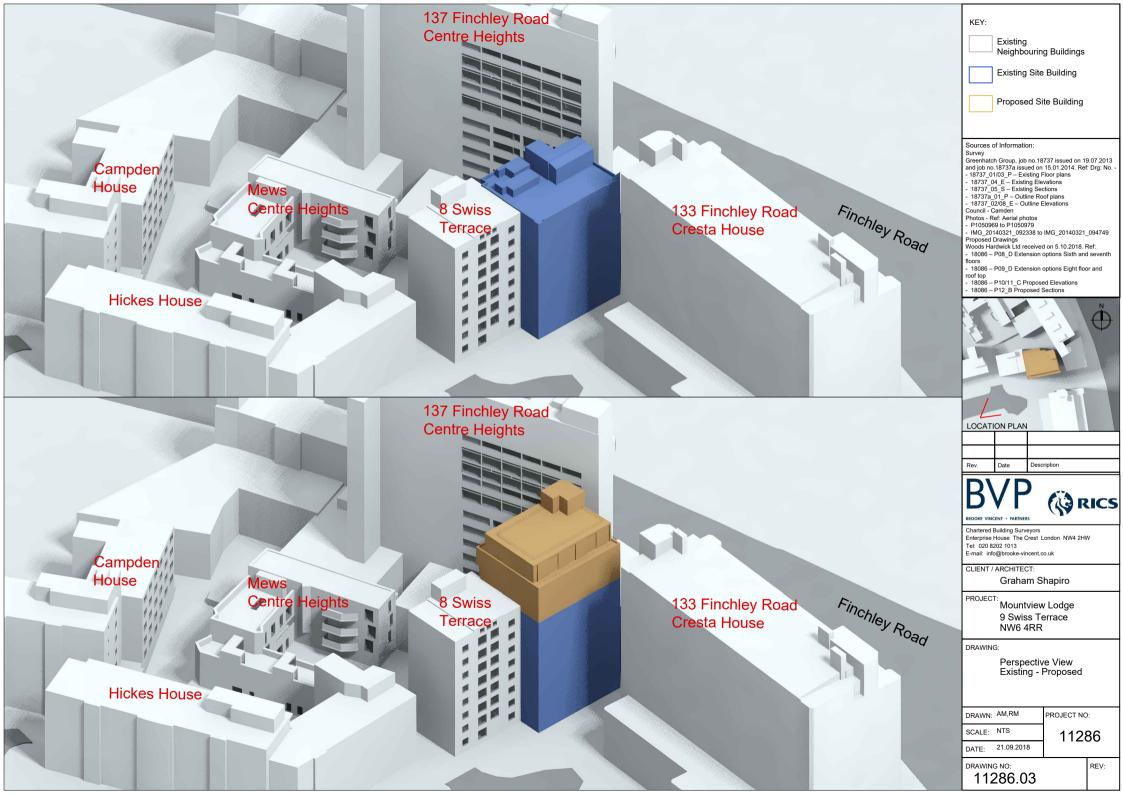
**APPENDIX 1** 

LOCATION PLAN CAD MODEL

Doc Ref. 11286/Report/Mountview Lodge - Swiss Terrace/Daylight & Sunlight/October 2018/rm







**APPENDIX 2** 

DAYLIGHT AND SUNLIGHT RESULTS TO NEIGHBOURING PROPERTIES

# Project Name: Mountview Lodge, 9 Swiss Terrace Project No.: 11286 Report Title: VSC\_APSH Daylight & Sunlight - Neighbour Analysis Date of Analysis: 21/09/2018

R4

Kitchen

W4

Floor Ref.	Room Ref.	Room Use.	Window Ref.		vsc	Pr/Ex	Meets BRE Criteria	Window Orientati on	Annual	Pr/Ex	Winter	Pr/Ex
				8	8 Swiss T	errace						
Ground	No-Room		W1	Existing	28.89	0.99	YES	168°	61	1.00	24	1.00
				Proposed	28.84				61		24	
	No-Room		W2	Existing	27.10	0.99	YES	168°	60	1.00	23	1.00
	N. D		14/2	Proposed	27.06	0.00	1/50	100	60	1 00	23	1.00
	No-Room		W3	Existing Proposed	23.45 23.44	0.99	YES	168°	<b>54</b> 54	1.00	<b>21</b> 21	1.00
Second	No-Room		W1	Existing	30.58	0.99	YES	168°	65	1.00	21	1.00
Second			**1	Proposed	30.48	0.55	125	100	65	1.00	24	1.00
	No-Room		W2	Existing	28.79	0.99	YES	168°	60	1.00	23	1.00
			***	Proposed	28.69	0.55	125	100	60	1.00	23	1.00
	No-Room		W3	Existing	27.34	0.99	YES	168°	60	1.00	23	1.00
				Proposed	27.26				60		23	
	No-Room		W4	Existing	24.62	0.99	YES	168°	54	1.00	21	1.00
				Proposed	24.59				54		21	
Fourth	No-Room		W1	Existing	32.05	0.99	YES	168°	69	1.00	24	1.00
				Proposed	31.84				69		24	
	No-Room		W2	Existing	30.29	0.99	YES	168°	63	1.00	23	1.00
				Proposed	30.03				63		23	
	No-Room		W3	Existing	28.74	0.99	YES	168°	61	1.00	23	1.00
				Proposed	28.50				61		23	
	No-Room		W4	Existing	25.40	0.99	YES	168°	57	1.00	22	1.00
				Proposed	25.28				57		22	
Sixth	No-Room		W1	Existing	33.90	0.98	YES	168°	75	0.96	24	1.00
				Proposed	33.47				72		24	
	No-Room		W2	Existing	32.42	0.97	YES	168°	70	0.98	24	1.00
	N. D		14/2	Proposed	31.71	0.00	1/50	100	69	0.00	24	1.00
	No-Room		W3	Existing	31.02	0.96	YES	168°	67 66	0.98	23 23	1.00
	No Boom		14/4	Proposed	30.07	0.06	VEC	1600	66	1 00		1.00
	No-Room		W4	Existing Proposed	26.84 26.01	0.96	YES	168°	58 58	1.00	<b>23</b> 23	1.00
Seventh	No-Room		W1	Existing	34.96	0.98	YES	168°	82	0.95	26	1.00
Seventin				Proposed	34.43	0.50	125	100	78	0.55	26	1.00
	No-Room		W2	Existing	33.83	0.96	YES	168°	76	0.92	24	1.00
				Proposed	32.76				70		24	
	No-Room		W3	Existing	32.70	0.95	YES	168°	73	0.91	24	1.00
				Proposed	31.11				67		24	
	No-Room		W4	Existing	29.56	0.89	YES	168°	63	0.92	23	1.00
				Proposed	26.51				58		23	
				Harb	en Rd-Hi	ckes Hous	e					
Ground	R1	Kitchen	W1	Existing	4.14	0.99	YES	54°		*North*		*North*
				Proposed	4.13							
	R4	Kitchen	W4	Existing	4.21	0.99	YES	54°		*North*		*North*
Connect	D1	<b>1/1</b> - 1	14/4	Proposed	4.17	0.00	VEC	F 40		****		*******
Second	R1	Kitchen	W1	Existing	6.34	0.99	YES	54°		*North*		*North*
	D/	Kitchon	14/4	Proposed	6.29 5.48	0.00	VEC	5 <i>1</i> °		*North*		*North*
	R4	Kitchen	W4	Existing	5.48	0.98	YES	54°		*North*		"NORTH"
Fourth	R1	Kitchen	W1	Proposed	5.40 9.58	0.98	YES	54°	1	*North*		*North*
ourui	UT.	NICHEN	AA T	Existing Proposed	9.58 9.43	0.98	1E3	54		NUTUI		NOTUN
	R4	Kitchen	W4	Existing	9.45 8.08	0.98	YES	54°		*North*		*North*
	117	Ritchen	vv-+	Proposed	7.94	0.50	113	54		NOTUT		North
Sixth	R1	Kitchen	W1	Existing	16.01	0.98	YES	54°		*North*		*North*
		enen		Dranacad	10.01	0.50	. 25	54				

Proposed 15.81

Existing 16.06

Proposed 15.90

0.99

YES

54°

\*North\*

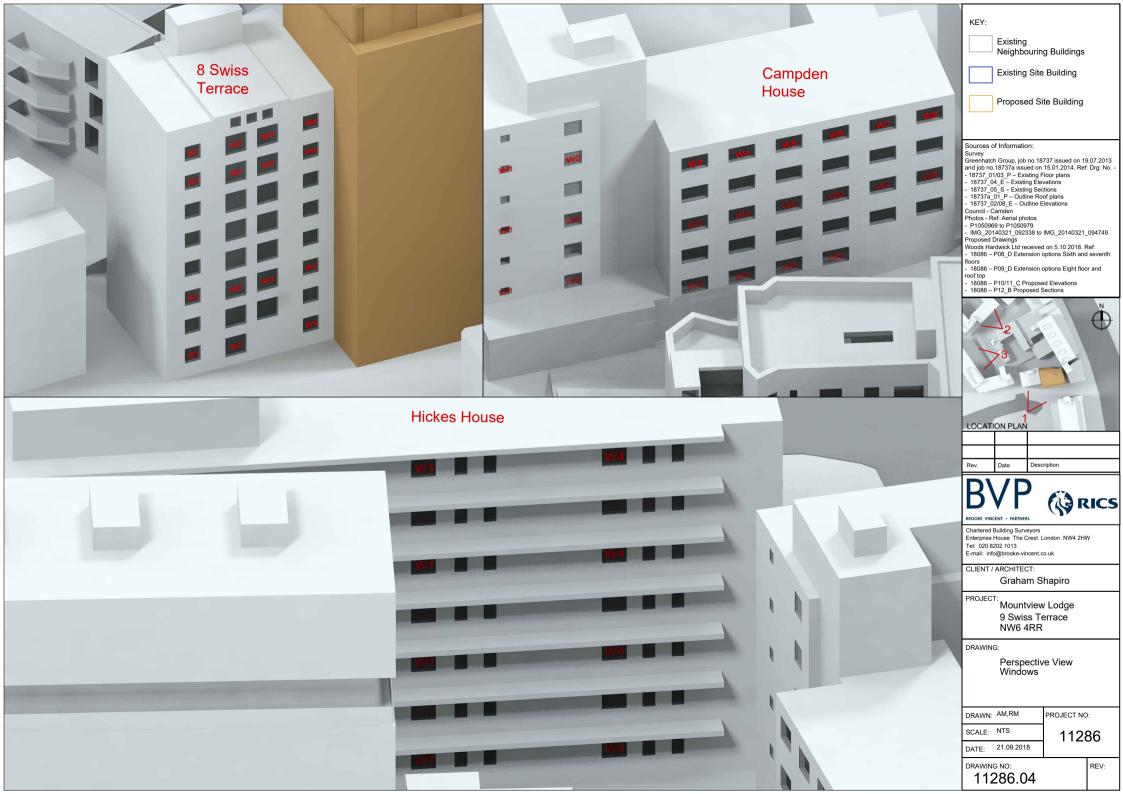
\*North\*

# Project Name: Mountview Lodge, 9 Swiss Terrace Project No.: 11286 Report Title: VSC\_APSH Daylight & Sunlight - Neighbour Analysis Date of Analysis: 21/09/2018

Floor Ref.	Room Ref.	Room Use.	Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientati on	Annual	Pr/Ex	Winter	Pr/Ex
				Harber	n Rd-Carr	npden Hou	ise					
First	R1	Bedroom	W1	Existing	20.37	0.98	YES	135°	35	1.00	4	1.00
				Proposed	20.14				35		4	
	R2	Bedroom	W2	Existing	20.29	0.99	YES	135°	41	0.97	6	1.00
				Proposed	20.17				40		6	
	R3	LD	W3	Existing	18.90	1.00	YES	135°	40	1.00	7	1.00
				Proposed	18.90				40		7	
	R4	Bedroom	W4	Existing	17.94	1.00	YES	135°	39	1.00	8	1.00
				Proposed	17.94				39		8	
	R5	LD	W5	Existing	17.34	0.99	YES	135°	36	1.00	6	1.00
				Proposed	17.33				36		6	
	R6	Bedroom	W6	Existing	17.04	1.00	YES	135°	36	1.00	5	1.00
				Proposed	17.04				36		5	
Third	R1	Bedroom	W1	Existing	25.22	0.98	YES	135°	48	1.00	10	1.00
				Proposed	24.90				48		10	
	R2	Bedroom	W2	Existing	25.03	0.98	YES	135°	54	1.00	13	1.00
				Proposed	24.66				54		13	
	R3	LD	W3	Existing	25.91	0.98	YES	135°	53	0.98	15	0.93
				Proposed	25.56				52		14	
	R4	Bedroom	W4	Existing	25.67	0.98	YES	135°	53	0.98	16	0.93
				Proposed	25.26				52		15	
	R5	LD	W5	Existing	25.17	0.98	YES	135°	52	1.00	15	1.00
				Proposed	24.68				52		15	
	R6	Bedroom	W6	Existing	24.66	0.98	YES	135°	50	0.98	14	0.92
				Proposed	24.21				49		13	
	R7	LD	W7	Existing	24.20	0.98	YES	135°	49	1.00	15	1.00
				Proposed	23.90				49		15	
	R8	Bedroom	W8	Existing	23.30	0.98	YES	135°	47	1.00	15	1.00
				Proposed	23.05				47		15	
Fifth	R1	Bedroom	W1	Existing	30.59	0.98	YES	135°	61	0.98	19	0.94
				Proposed	30.27				60		18	
	R2	Bedroom	W2	Existing	30.45	0.98	YES	135°	63	1.00	21	1.00
				Proposed	30.08				63		21	
	R3	LD	W3	Existing	29.98	0.98	YES	135°	63	1.00	21	1.00
				Proposed	29.54				63		21	
	R4	Bedroom	W4	Existing	29.71	0.98	YES	135°	60	1.00	22	1.00
				Proposed	29.25				60		22	
	R5	LD	W5	Existing	29.36	0.98	YES	135°	59	0.98	22	0.95
				Proposed	28.89				58		21	
	R6	Bedroom	W6	Existing	28.99	0.98	YES	135°	59	0.98	22	0.95
				Proposed	28.52				58		21	
	R7	LD	W7	Existing	28.68	0.98	YES	135°	57	1.00	20	1.00
				Proposed	28.21				57		20	
	R8	Bedroom	W8	Existing	28.35	0.98	YES	135°	58	0.98	20	0.95
				Proposed	27.88				57		19	

#### Project Name: Mountview Lodge, 9 Swiss Terrace Project No.: 11286 Report Title: DD\_Daylight Distribution Analysis - Neighbour Date of Analysis: 21/09/2018

Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Existing	Lit Area Proposed	Pr/E
		Harbe	en Rd-Hickes House				
Ground	R1	Kitchen	Area m2	6.60	5.02	4.95	
			% of room		76%	75%	0.98
	R4	Kitchen	Area m2	6.60	5.50	5.45	
			% of room		83%	83%	0.99
Second	R1	Kitchen	Area m2	6.60	6.22	6.16	
	D.4	Kitabaa	% of room	C C0	94%	93%	0.98
	R4	Kitchen	Area m2 % of room	6.60	5.92 90%	5.92 90%	0.99
Fourth	R1	Kitchen-Resi	Area m2	6.60	6.36	6.35	0.95
rourth	N1	Kitchen Kesi	% of room	0.00	96%	96%	0.99
	R4	Kitchen-Resi	Area m2	6.60	6.11	6.11	
			% of room		93%	93%	1.00
Sixth	R1	Kitchen-Resi	Area m2	6.60	6.41	6.41	
			% of room		97%	97%	1.00
	R4	Kitchen-Resi	Area m2	6.60	6.41	6.41	
			% of room		97%	97%	1.00
		Harber	Rd-Campden House				
·	54			10.10	6.04		
First	R1	Bedroom	Area m2	12.42	6.01	5.64	0.07
	53	Deducers	% of room	10.40	48%	45%	0.93
	R2	Bedroom	Area m2	10.46	0.58	0.58	0.00
	R3	LD	% of room Area m2	17.06	6% 9.47	<mark>6%</mark> 9.47	0.99
	КЭ	LD	% of room	17.00	55%	55%	1.00
	R4	Bedroom	Area m2	12.46	5.83	5.83	1.00
	114	beuroonn	% of room	12.40	47%	47%	1.00
	R5	LD	Area m2	16.83	7.10	6.88	1.00
	110	20	% of room	10.00	42%	41%	0.96
	R6	Bedroom	Area m2	11.60	4.62	4.41	
			% of room		40%	38%	0.95
Third	R1	Bedroom	Area m2	12.42	7.01	6.91	
			% of room		56%	56%	0.98
	R2	Bedroom	Area m2	10.46	0.59	0.59	
			% of room		6%	6%	0.99
	R3	LD	Area m2	17.06	15.67	14.50	
			% of room		92%	85%	0.92
	R4	Bedroom	Area m2	12.46	11.52	10.68	
			% of room		92%	86%	0.92
	R5	LD	Area m2	16.83	14.11	12.38	
	D.C	Deducers	% of room	11.00	84%	74%	0.87
	R6	Bedroom	Area m2 % of room	11.60	9.47 82%	8.37	0.00
	R7	LD	% of room Area m2	17.39	82% 12.89	72% 12.09	0.88
		20	% of room	17.55	74%	70%	0.93
	R8	Bedroom	Area m2	11.27	8.32	7.47	0.00
			% of room		74%	66%	0.89
Fifth	R1	Bedroom	Area m2	12.42	7.52	7.51	
			% of room		61%	60%	0.99
	R2	Bedroom	Area m2	10.46	0.72	0.72	
			% of room		7%	7%	0.99
	R3	LD	Area m2	17.06	16.90	15.92	
			% of room		99%	93%	0.94
	R4	Bedroom	Area m2	12.46	12.41	11.79	<u> </u>
	~~		% of room		100%	95%	0.95
	R5	LD	Area m2	16.83	16.60	14.99	
	DC.	Deductor	% of room	11.00	99%	89%	0.90
	R6	Bedroom	Area m2	11.60	11.57	10.36	0.07
	07	ID	% of room	17.00	100%	89%	0.89
	R7	LD	Area m2 % of room	17.39	16.25	14.38	0.00
	R8	Bedroom	% of room Area m2	11.27	93% 11.25	<mark>83%</mark> 9.31	0.88



# Project Name: Mountview Lodge, 9 Swiss Terrace Project No.: 11286 Report Title: VSC\_APSH Daylight & Sunlight - Neighbour Analysis Date of Analysis: 21/09/2018

Floor Ref.	Room Ref.	Room Use.	Window Ref.		vsc	Pr/Ex	Meets BRE Criteria	Window Orientati on	Annual	Pr/Ex	Winter	Pr/Ex
				Me	ws Centr	e Heights						
Ground	R2	LKD	W3	Existing	6.66	0.96	YES	117°	4	1.00	1	1.00
			W4	Proposed Existing Proposed	6.42 9.38 9.35	0.99	YES	27°	4	*North*	1	*North*
			W5	Existing Proposed	5.77 5.37	0.93	YES	117°	<b>2</b> 1	0.50	<b>0</b> 0	0.00
			W6	Existing Proposed	7.92 7.90	0.99	YES	27°		*North*		*North*
			W17	Existing Proposed	16.39 16.39	1.00	YES	237°	<b>21</b> 21	1.00	<b>0</b> 0	0.00
			W18	Existing Proposed	15.28 15.28	1.00	YES	237°	<b>14</b> 14	1.00	<b>0</b> 0	0.00
	R4	LKD	W7	Existing Proposed	7.38 6.87	0.93	YES	117°	5 4	0.80	<b>0</b> 0	0.00
			W8	Existing Proposed	3.16 3.15	0.99	YES	27°		*North*		*North*
			W9	Existing Proposed	6.08 5.54	0.91	YES	117°	<b>4</b> 3	0.75	<b>0</b> 0	0.00
			W15	Existing Proposed	18.62 18.62	1.00	YES	237°	<b>32</b> 32	1.00	<b>4</b> 4	1.00
			W16	Existing Proposed	18.32 18.32	1.00	YES	237°	<b>29</b> 29	1.00	<b>3</b> 3	1.00
	R5	Bedroom	W10	Existing Proposed	11.73 11.17	0.95	YES	149°	<b>19</b> 18	0.94	2 2	1.00
	R6	LKD	W11	Existing Proposed	13.73 13.39	0.97	YES	149°	29 28	0.96	<b>4</b> 4	1.00
			W12	Existing Proposed	11.94 11.93	0.99	YES	149°	<b>29</b> 29	1.00	<b>5</b>	1.00
			W13	Existing Proposed	17.88 17.88	1.00	YES	333°		*North*		*North*
First	R1	Bedroom	W14	Existing Proposed Existing	16.21 16.21 8.16	0.95	YES	333° 117°	6	*North* 0.83	1	*North* 1.00
FIISC	NI	Beuroom	W1 W2	Proposed Existing	7.83 14.38	0.95	YES	27°	5	*North*	1	*North*
	R2	Bedroom	W2 W3	Proposed Existing	14.30 14.34 8.34	0.93	YES	117°	10	0.80	0	0.00
	112	Bearbonn	W4	Proposed Existing	7.83 12.52	0.99	YES	27°	8	*North*	0	*North*
	R3	Bedroom	W5	Proposed Existing	12.50 10.44	0.94	YES	117°	13	0.84	0	0.00
			W6	Proposed Existing	9.83 4.98	0.99	YES	27°	11	*North*	0	*North*
	R4	Bedroom	W7	Proposed Existing	<b>4.97</b> 8.96	0.92	YES	117°	8	0.75	0	0.00
	R5	Bedroom	W8	Proposed Existing	8.33 15.66	0.95	YES	149°	6 27	1.00	0 2	1.00
	R6	LKD	W9	Proposed Existing	<b>15.01</b> 3.19	0.96	YES	149°	27 6	1.00	2 5	1.00
			W12	Proposed Existing	3.07 20.99	1.00	YES	333°	6	*North*	5	*North*
	R7	Bedroom	W10	Proposed Existing	20.99 22.85	1.00	YES	239°	31	1.00	2	1.00
			W11	Proposed Existing	22.85 8.15	0.88	YES	149°	31 24	0.83	2 2	1.00
				Proposed	7.19				20		2	

# Project Name: Mountview Lodge, 9 Swiss Terrace Project No.: 11286 Report Title: VSC\_APSH Daylight & Sunlight - Neighbour Analysis Date of Analysis: 21/09/2018

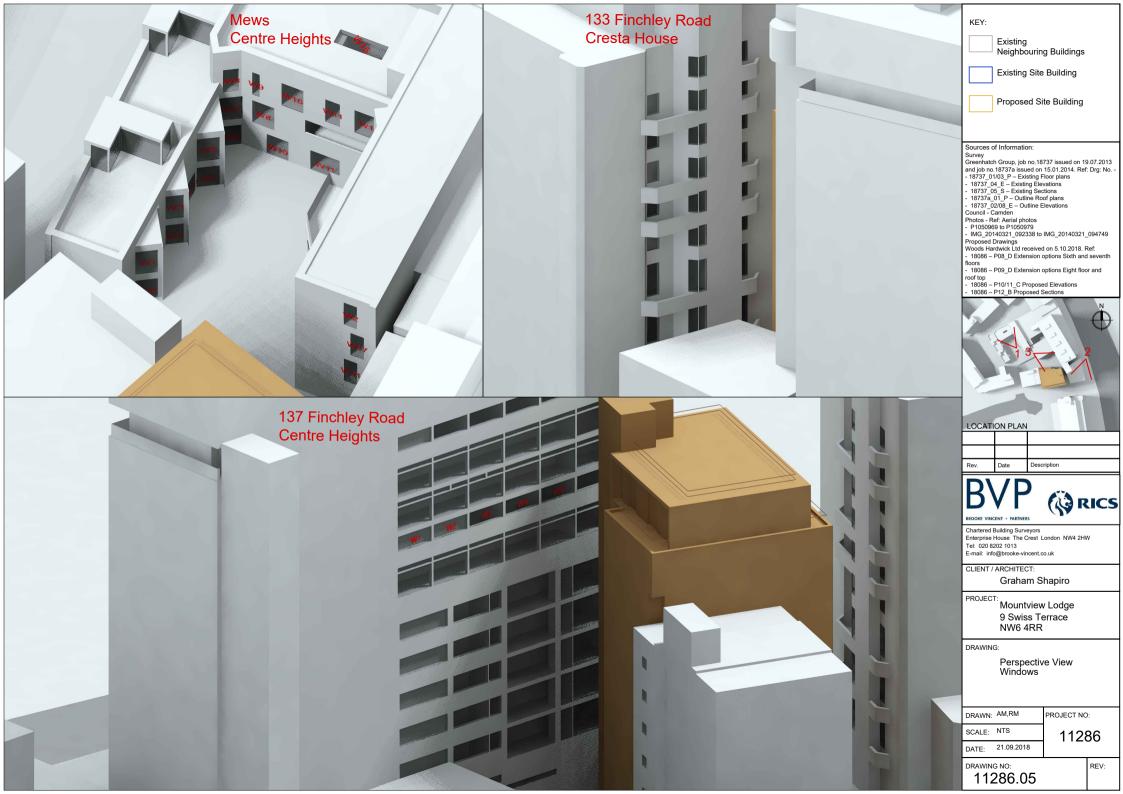
Floor Ref.	Room Ref.	Room Use.	Window Ref.		vsc	Pr/Ex	Meets BRE Criteria	Window Orientati on	Annual	Pr/Ex	Winter	Pr/Ex
Second	R3	Bedroom	W8	Existing	17.24	0.95	YES	117°	39	0.94	12	1.00
				Proposed	16.52				37		12	
			W9	Existing	21.33	0.96	YES	149°	42	0.95	13	1.00
				Proposed	20.60				40		13	
	R4	Bedroom	W10	Existing	21.55	0.96	YES	149°	50	0.96	14	1.00
				Proposed	20.69				48		14	
	R5	LKD	W11	Existing	21.02	0.95	YES	149°	51	0.96	13	1.00
				Proposed	20.08				49		13	
			W12	Existing	18.31	0.97	YES	149°	46	0.97	12	1.00
				Proposed	17.80				45		12	
			W13	Existing	28.81	1.00	YES	333°		*North*		*North*
				Proposed	28.81							
			W14	Existing	27.09	1.00	YES	333°		*North*		*North*
				Proposed	27.09							
			W15	Existing	83.04	0.99	YES	90° Hz	65	0.98	19	0.94
				Proposed	82.57				64		18	
	R6	Bedroom	W16	Existing	26.66	1.00	YES	239°	38	1.00	4	1.00
				Proposed	26.66				38		4	
			W17	Existing	10.30	0.85	YES	149°	31	0.87	3	1.00
				Proposed	8.80				27		3	
Third	R1	Bedroom	W1	Existing	31.16	0.99	YES	239°	46	1.00	8	1.00
				Proposed	31.15				46		8	
			W2	Existing	12.97	0.85	YES	149°	39	0.87	6	1.00
				Proposed	11.03				34		6	

#### 137 Finchley Rd-Centre Heights

Seventh	No-Room		W1	Existing	38.62	0.95	YES	239°	66	0.93	24	0.83
				Proposed	36.80				62		20	
	No-Room		W2	Existing	38.82	0.92	YES	239°	65	0.90	23	0.73
				Proposed	35.73				59		17	
	R1	Bedroom	W3	Existing	38.81	0.86	YES	239°	64	0.84	22	0.54
				Proposed	33.40				54		12	
	R2	Bedroom	W4	Existing	38.70	0.74	YES	239°	64	0.70	22	0.31
				Proposed	28.93				45		7	
	R3	Bedroom	W5	Existing	38.48	0.55	NO	239°	64	0.40	22	0.13
				Proposed	21.46				26		3	
	R3	Bedroom	W6	Existing	38.01	0.29	NO	239°	62	0.29	20	0.25
				Proposed	11.25				18		5	

#### Project Name: Mountview Lodge, 9 Swiss Terrace Project No.: 11286 Report Title: DD\_Daylight Distribution Analysis - Neighbour Date of Analysis: 21/09/2018

Floor Ref.	Room Ref.	Room Use.		Room Area	Lit Area Existing	Lit Area Proposed	Pr/Ex
		м	ews Centre Heights				
Ground	R2	LKD	Area m2	32.42	15.97	15.97	
			% of room		49%	49%	0.99
	R4	LKD	Area m2	40.84	22.45	21.35	
			% of room		55%	52%	0.95
	R5	Bedroom	Area m2	11.28	7.40	6.82	
			% of room		66%	60%	0.92
	R6	LKD	Area m2	47.07	35.80	35.34	
			% of room		76%	75%	0.98
First	R1	Bedroom	Area m2	14.23	5.95	5.85	
			% of room		42%	41%	0.98
	R2	Bedroom	Area m2	11.35	6.18	6.18	
			% of room		54%	54%	0.99
	R3	Bedroom	Area m2	18.28	6.10	6.10	
			% of room		33%	33%	1.00
	R4	Bedroom	Area m2	13.91	6.29	4.79	
			% of room		45%	34%	0.76
	R5	Bedroom	Area m2	10.77	9.13	8.79	
			% of room	-	85%	82%	0.96
	R6	LKD	Area m2	37.84	32.82	32.49	
			% of room		87%	86%	0.98
	R7	Bedroom	Area m2	12.86	10.31	10.31	
			% of room		80%	80%	1.00
Second	R3	Bedroom	Area m2	12.00	10.51	10.21	1.00
occond		bearbonn	% of room	12.00	88%	85%	0.97
	R4	Bedroom	Area m2	8.19	7.73	7.50	0.57
	N.T	Dearboin	% of room	0.15	94%	92%	0.97
	R5	LKD	Area m2	37.51	37.45	37.31	0.57
	NO		% of room	57.51	100%	99%	0.99
	R6	Bedroom	Area m2	12.86	11.01	11.01	0.55
	NO	bedroom	% of room	12.00	86%	86%	1.00
Third	R1	Bedroom	Area m2	12.86	12.72	12.72	1.00
minu	N1	Bedroom	% of room	12.00	99%	99%	1.00
		137 Fin	chley Rd-Centre Heights				1.00
Seventh	R1	Bedroom	Area m2	13.02	13.02	13.02	
			% of room		100%	100%	0.99
	R2	Bedroom	Area m2	13.02	13.02	13.02	
			% of room		100%	100%	0.99
	R3	Bedroom	Area m2	14.43	12.62	9.52	
			% of room		87%	66%	0.75



#### Project Name: Mountview Lodge, 9 Swiss Terrace Project No.: 11286 Report Title: ADF\_Average Daylight Analysis - Neighbour

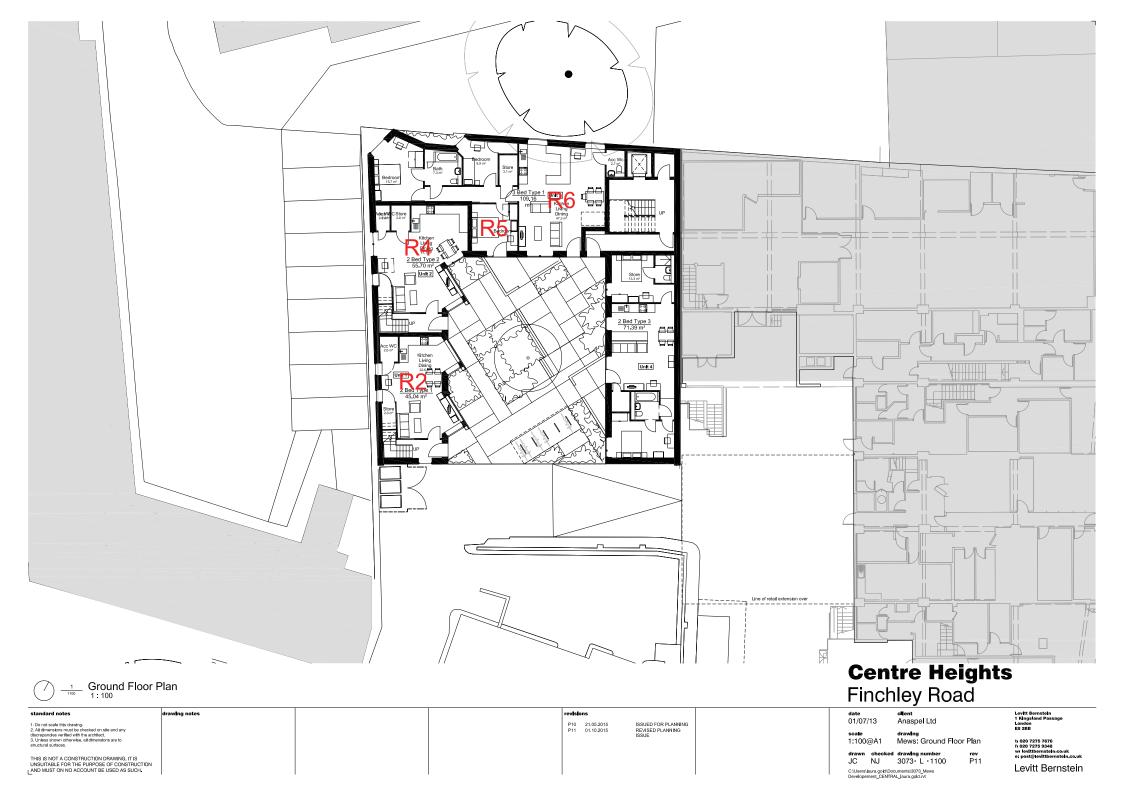
Date: 21/09/2018

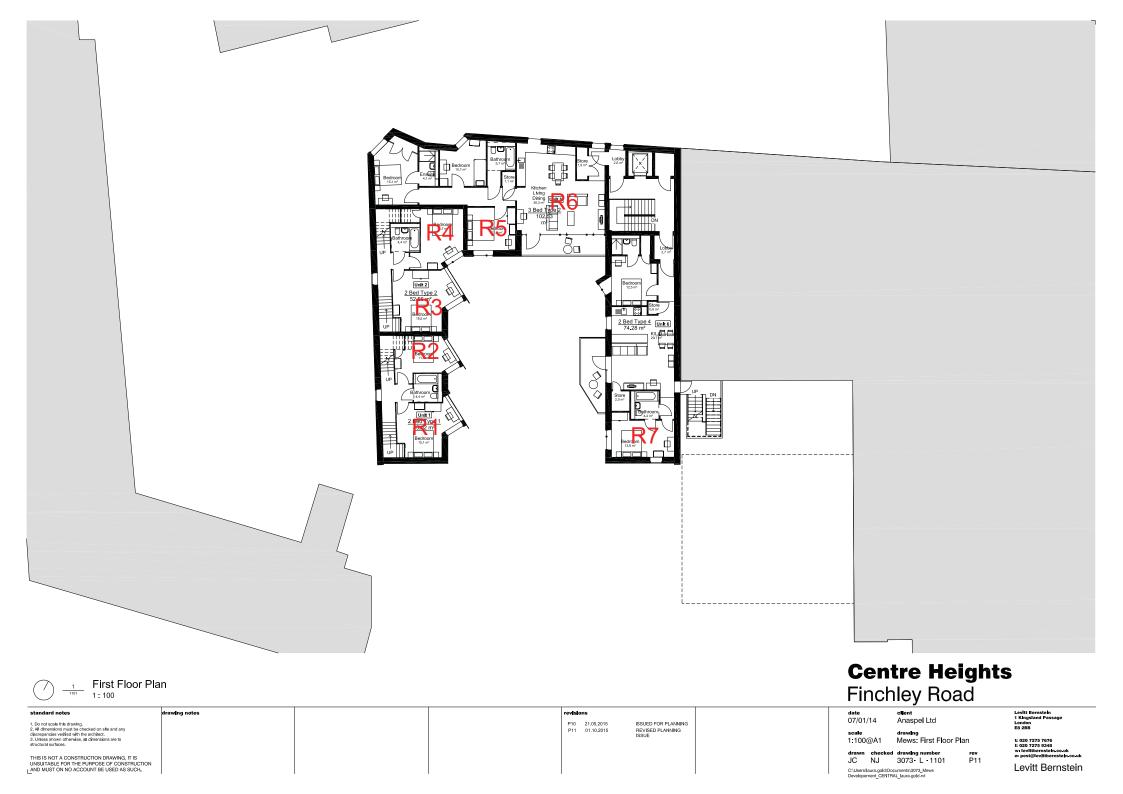
Clear Sky Clear Sky Average Room Window Glass Glazed Working Recom'd Floor Ref. Room Ref. Surface Surface Pr/Ex Room Use. Angle Angle Ref. Transmittance Area Plane Existing Proposed Value Existing Reflectance Proposed Area Factor Mews Centre Heights Ground R2 LKD W3-L 0.68 0.97 26.19 25.65 136.34 0.50 0.15 0.03 0.02 W3-U 0.68 1.76 26.52 25.91 136.34 0.50 1.00 0.31 0.30 W4-L 0.51 1.51 32.05 32.05 136.34 0.50 0.15 0.04 0.04 W4-U 0 51 2 74 33 44 33 44 136 34 0 50 1 00 0 4 6 0 46 W5-L 0.68 0.77 24.84 23.89 136.34 0.50 0.15 0.02 0.02 W5-U 0.68 1.41 25.79 24.77 136.34 0.50 1.00 0.24 0.23 1.30 28.94 W6-L 0.51 28.94 136.34 0.50 0.15 0.03 0.03 W6-U 0.51 2.37 30.84 30.84 136.34 0.50 1.00 0.36 0.36 W17-L 0.68 0.04 44.11 44.11 136.34 0.50 0.15 0.00 0.00 W17-U 0.68 1.12 44.83 44.83 136.34 0.50 1.00 0.33 0.33 W18-L 0.04 42.19 42.19 136.34 0.00 0.00 0.68 0.50 0.15 W18-U 0.68 1.11 42.86 42.86 136.34 0.50 1.00 0.32 0.32 2.14 2.12 2.00 0.99 W7-L 0.68 0.97 28.24 27.11 0.15 Ground R4 LKD 163.10 0.50 0.02 0.02 W7-U 0.68 1.77 29.17 27.99 163.10 0.50 1.00 0.29 0.27 W8-I 0 51 1 65 18 07 18 07 163 10 0 50 0 1 5 0.02 0.02 W8-U 0.51 3.01 18.24 18.24 163.10 0.50 1.00 0.23 0.23 W9-L 0.68 0.97 25.57 24.31 163.10 0.50 0.15 0.02 0.02 W9-U 0.68 1.76 26.91 25.63 163.10 0.50 1.00 0.26 0.25 W15-L 0.68 0.07 48.50 48.50 163.10 0.50 0.15 0.00 0.00 W15-U 0.68 2.23 48.92 48.92 163.10 0.50 1.00 0.61 0.61 W16-L 0.68 0.04 47.32 47.32 163.10 0.50 0.15 0.00 0.00 W16-U 0.68 1.11 48.08 48.08 163.10 0.50 1.00 0.30 0.30 0.99 2.00 1.75 1.72 Ground R5 Bedroom W10-L 0.68 1.02 36.45 35.46 59.98 0.50 0.15 0.08 0.08 W10-U 0.68 1.86 38.51 37.43 59.98 0.50 1.00 1.08 1.05 1.17 1.13 1.00 0.97 Ground R6 IKD W11-I 0.68 1.36 40 31 39 73 171 08 0 50 0 15 0.04 0.04 W11-U 0.68 2.47 41.72 41.11 171.08 0.50 1.00 0.55 0.54 W12-L 0.02 0.68 0.69 37.02 37.01 171.08 0.50 0.15 0.02 W12-U 0.68 1.25 38.19 38.19 171.08 0.50 1.00 0.25 0.25 W13-L 0.68 1.02 46.55 46.55 171.08 0.50 0.15 0.04 0.04 W13-U 0.68 1.86 48.48 48.48 171.08 0.50 1.00 0.48 0.48 W14-L 0.68 1.02 43.94 43.94 171.08 0.50 0.15 0.04 0.04 W14-U 1.85 171.08 0.45 0.68 45.67 45.67 0.50 1.00 0.45 2.00 1.00 1.86 1.85 First R1 Bedroom W1-L 0.68 0.97 29.07 28.36 77.01 0.50 0.15 0.05 0.05 W1-U 0.68 1.76 30.06 29.27 77.01 0.50 1.00 0.62 0.61 77.01 0.08 W2-L 0.51 1.52 39.79 39.78 0.50 0.15 0.08 W2-U 0 51 2 76 43 41 43 40 77 01 0 50 1.00 1.06 1.06 1.81 1.00 0.99 1 79 First R2 Bedroom W3-L 0.68 0.77 29.60 28.53 62.65 0.50 0.15 0.05 0.05 W3-U 0.68 1.41 31.44 30.33 62.65 0.50 1.00 0.64 0.62 W4-L 0.51 1.31 37.11 37.11 62.65 0.50 0.15 0.08 0.08 W4-U 0.51 2.39 40.06 40.06 62.65 0.50 1.00 1.04 1.04 1.81 1.78 1.00 0.99 First R3 W5-L 0.68 0.97 33.30 32.12 84.42 0.50 0.15 Bedroom 0.05 0.05 W5-U 1.77 33.90 84.42 0.50 1.00 0.64 0.68 35.12 0.67 W6-L 0.51 1.66 22.66 22.66 84.42 0.50 0.15 0.05 0.05 W6-U 0.51 3.03 24.11 24.11 84.42 0.50 1.00 0.59 0.59 1.00 1.35 0.98 1.33 First R4 Bedroom W7-I 0.68 0.95 30.08 28 77 71.79 0 50 0 15 0.05 0.05 W7-U 0.68 1.73 34.05 32.77 71.79 0.50 1.00 0.74 0.72 0.80 0.96 0.7 1.00 First R5 W8-L 0.68 1.02 41.74 40.61 57.55 0.50 0.15 0.10 0.10 Bedroom W8-U 0.68 1.86 46.18 45.04 57.55 0.50 1.00 1.35 1.32 1.45 1.42 1.00 0.98 0.15 First R6 LKD W9-L 0.68 4.23 27.13 26.90 149.38 0.50 0.10 0.10 W9-U 0.68 7.72 10.93 10.93 149.38 0.50 1.00 0.51 0.51 W12-I 0.68 0.68 50 23 50 23 149 38 0 50 0 1 5 0.03 0.03 W12-U 0.68 1.24 52.82 52.82 149.38 0.50 1.00 0.40 0.40 1.04 1.04 2.00 1.00 First R7 Bedroom W10-L 0.68 1.02 55.23 55.23 65.12 0.50 0.15 0.12 0.12 W10-U 0.68 1 86 56 94 56 94 65 12 0 50 1 00 1 47 1 47 W11-L 0.68 0.62 29.23 27.35 65.12 0.50 0.15 0.04 0.04 W11-U 0.68 1.13 30.10 27.78 65.12 0.50 1.00 0.47 0.44 1.00 0.98 2.10 2.06

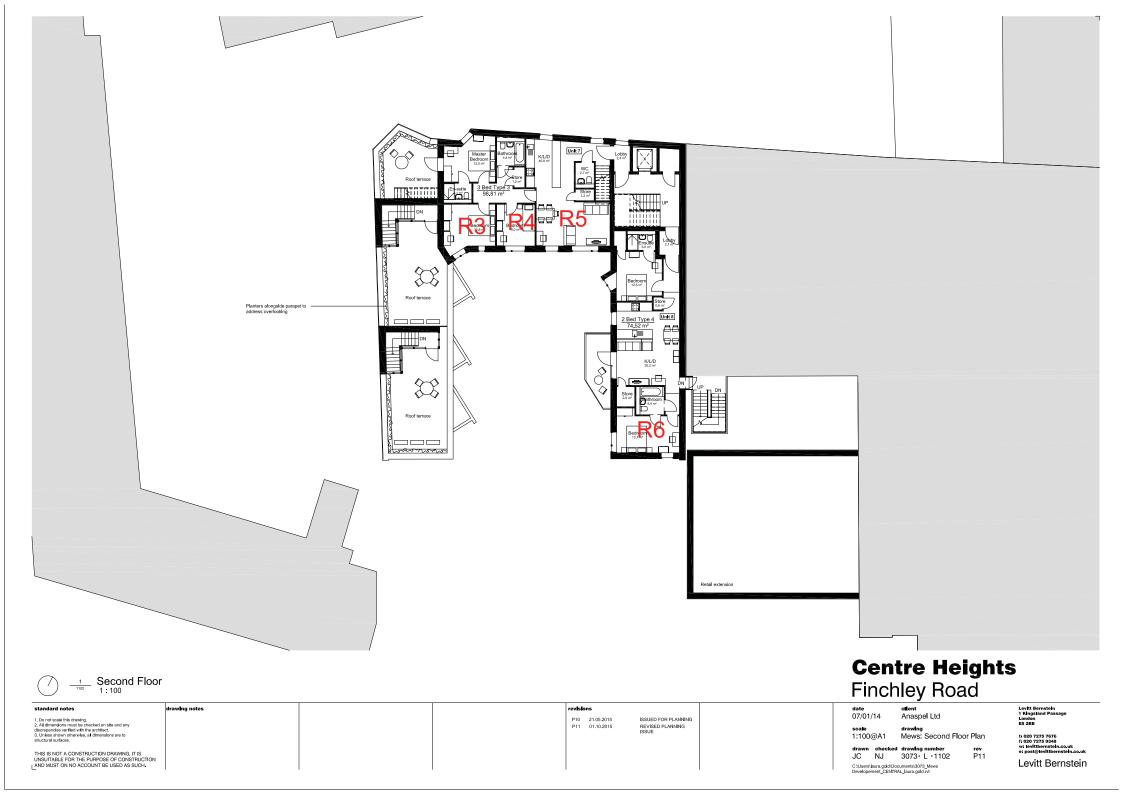
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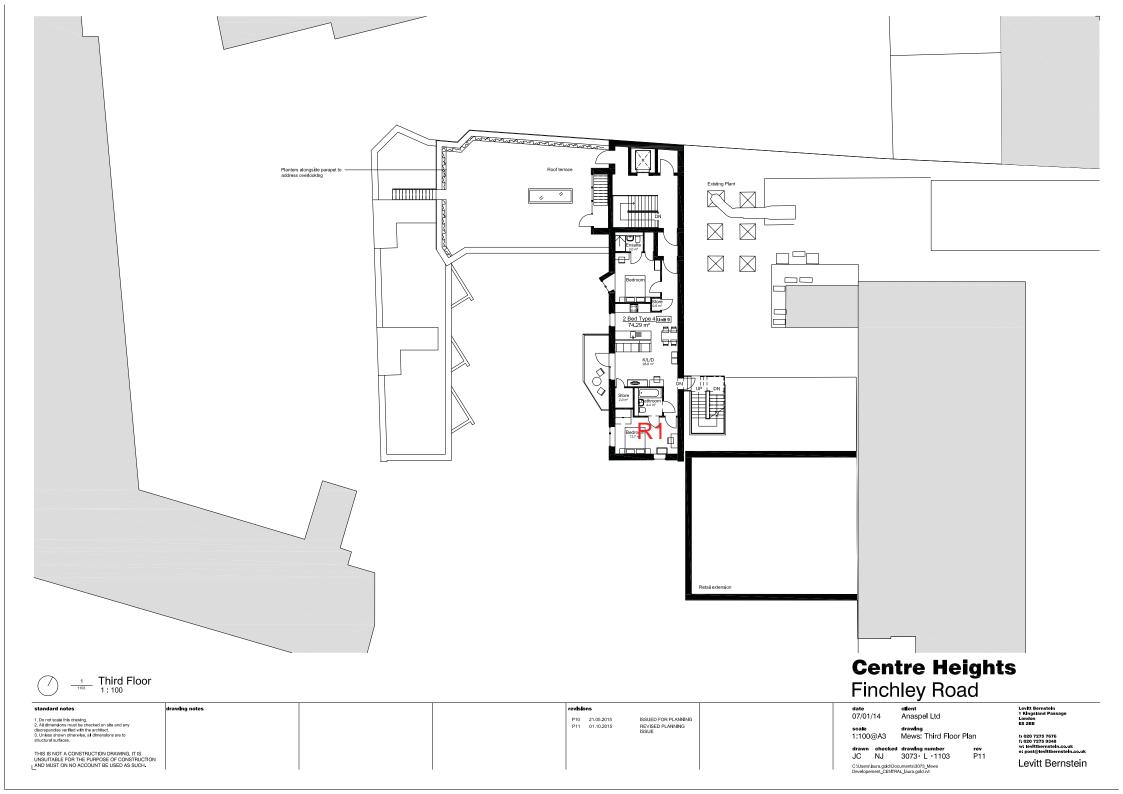
### Project Name: Mountview Lodge, 9 Swiss Terrace Project No.: 11286 Report Title: ADF\_Average Daylight Analysis - Neighbour Date: 21/09/2018

Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Glazed Area	Clear Sky Angle Existing	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Existing	ADF Proposed	Recom'd Value	Pr/Ex
Second	R3	Bedroom	W8-L	0.68	0.67	43.99	42.78	62.74	0.50	0.15	0.06	0.06		
			W8-U	0.68	1.23	46.38	45.12	62.74	0.50	1.00	0.82	0.80		
			W9-L	0.68	0.34	50.69	49.51	62.74	0.50	0.15	0.04	0.04		
			W9-U	0.68	0.62	52.27	51.03	62.74	0.50	1.00	0.47	0.45		
											1.39	1.36	1.00	0.97
Second	R4	Bedroom	W10-L	0.68	1.02	53.46	52.11	48.05	0.50	0.15	0.15	0.15		
			W10-U	0.68	1.85	54.40	52.97	48.05	0.50	1.00	1.90	1.85		
											2.06	2.00	1.00	0.97
Second	R5	LKD	W11-L	0.68	0.68	51.94	50.60	163.94	0.50	0.15	0.03	0.03		
			W11-U	0.68	1.24	52.98	51.37	163.94	0.50	1.00	0.36	0.35		
			W12-L	0.68	1.36	47.63	47.17	163.94	0.50	0.15	0.05	0.05		
			W12-U	0.68	2.48	49.48	48.55	163.94	0.50	1.00	0.68	0.66		
			W13-L	0.68	0.68	62.58	62.58	163.94	0.50	0.15	0.04	0.04		
			W13-U	0.68	1.24	65.74	65.74	163.94	0.50	1.00	0.45	0.45		
			W14-L	0.68	0.68	59.63	59.63	163.94	0.50	0.15	0.03	0.03		
			W14-U	0.68	1.24	62.82	62.82	163.94	0.50	1.00	0.43	0.43		
			W15	0.68	2.85	167.97	167.12	163.94	0.50	1.00	2.65	2.63		
											4.72	4.68	2.00	0.99
Second	R6	Bedroom	W16-L	0.68	1.01	61.57	61.57	65.12	0.50	0.15	0.13	0.13		
			W16-U	0.68	1.85	62.95	62.95	65.12	0.50	1.00	1.62	1.62		
			W17-L	0.68	0.62	33.26	30.40	65.12	0.50	0.15	0.04	0.04		
			W17-U	0.68	1.12	34.22	31.03	65.12	0.50	1.00	0.53	0.48		
											2.33	2.28	1.00	0.98
Third	R1	Bedroom	W1-L	0.68	1.01	68.44	68.44	65.12	0.50	0.15	0.15	0.15		
			W1-U	0.68	1.85	70.26	70.26	65.12	0.50	1.00	1.81	1.81		
			W2-L	0.68	0.62	37.94	34.51	65.12	0.50	0.15	0.05	0.04		
			W2-U	0.68	1.12	39.19	35.42	65.12	0.50	1.00	0.61	0.55	_	
											2.62	2.55	1.00	0.98

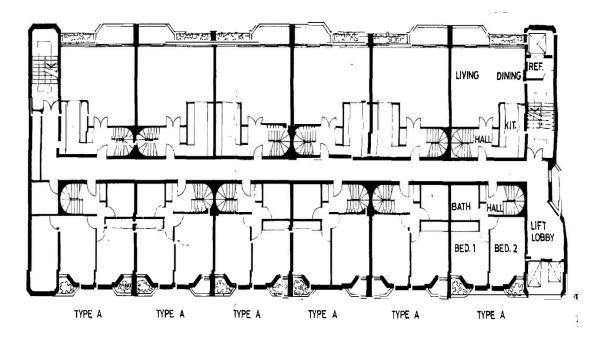




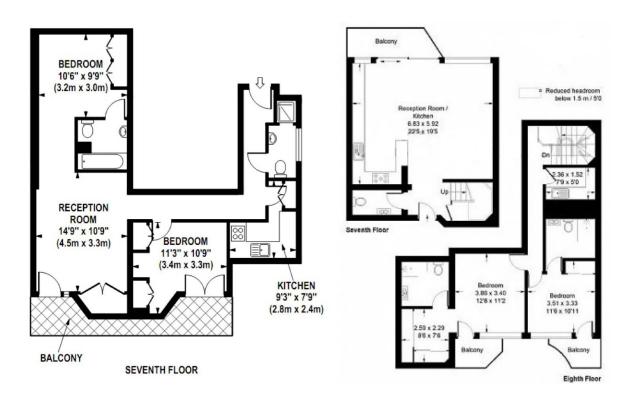




#### **CRESTA HOUSE**



3rd, 5th & 7th FLOORS



**APPENDIX 3** 

DAYLIGHT RESULTS TO PROPOSED ACCOMODATION ROOMS REFERENCE PLAN

Doc Ref. 11286/Report/Mountview Lodge - Swiss Terrace/Daylight & Sunlight/October 2018/rm

Project Name: Mountview Lodge Project No.: 11286 Report Title: Average Daylight Analysis - Proposed accommodation Date: 04/10/2018

Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Recom'd Value	Meets BRE Criteria
					Pr	oposed						
Sixth	R1	Living Room	W1-L	0.68	0.76	69.80	82.31	0.60	0.20	0.14		
		-	W1-U	0.68	0.83	66.99	82.31	0.60	1.00	0.72		
			W2-L	0.68	1.18	66.77	82.31	0.60	0.20	0.20		
			W2-U	0.68	2.20	66.95	82.31	0.60	1.00	1.90		
			W8-L	0.68	0.96	83.99	82.31	0.60	0.20	0.21		
			W8-U	0.68	1.05	81.71	82.31	0.60	1.00	1.11		
										4.28	1.50	YES
Sixth	R2	Bedroom	W3-L	0.68	1.18	62.68	66.49	0.60	0.20	0.24		
			W3-U	0.68	2.20	62.85	66.49	0.60	1.00	2.21		
										2.45	1.00	YES
Sixth	R3	Living Room	W4-L	0.68	1.18	55.89	60.55	0.60	0.20	0.23		
		-	W4-U	0.68	2.20	56.26	60.55	0.60	1.00	2.17		
										2.40	1.50	YES
Sixth	R4	Bedroom	W5-L	0.68	1.18	50.86	54.27	0.60	0.20	0.23		
			W5-U	0.68	1.29	48.49	54.27	0.60	1.00	1.22		
										1.46	1.00	YES
Sixth	R5	Bedroom	W6-L	0.68	1.18	51.54	70.49	0.60	0.20	0.18		
			W6-U	0.68	2.20	51.34	70.49	0.60	1.00	1.70		
										1.89	1.00	YES
Sixth	R6	Living Room	W7-L	0.68	1.18	56.20	97.70	0.60	0.20	0.14		
		-	W7-U	0.68	2.20	56.47	97.70	0.60	1.00	1.35		
										1.50	1.50	YES
Seventh	R1	Living Room	W1-L	0.68	0.76	73.49	86.14	0.60	0.20	0.14		
		Ū	W1-U	0.68	0.83	70.75	86.14	0.60	1.00	0.73		
			W2-L	0.68	1.18	70.60	86.14	0.60	0.20	0.20		
			W2-U	0.68	2.20	71.21	86.14	0.60	1.00	1.93		
			W9-L	0.68	0.96	87.91	86.14	0.60	0.20	0.21		
			W9-U	0.68	1.05	82.87	86.14	0.60	1.00	1.07		
										4.28	1.50	YES
Seventh	R2	Bedroom	W3-L	0.68	1.18	66.47	66.83	0.60	0.20	0.25		
			W3-U	0.68	2.20	67.23	66.83	0.60	1.00	2.35		
										2.60	1.00	YES
Seventh	R3	Living Room	W4-L	0.68	1.18	60.27	60.55	0.60	0.20	0.25		
			W4-U	0.68	2.20	61.40	60.55	0.60	1.00	2.37		
										2.62	1.50	YES
Seventh	R4	Bedroom	W5-L	0.68	1.18	56.14	54.27	0.60	0.20	0.26		
			W5-U	0.68	1.29	54.41	54.27	0.60	1.00	1.37		
										1.63	1.00	YES
Seventh	R5	Bedroom	W6-L	0.68	0.65	34.43	51.65	0.60	0.20	0.09		
			W6-U	0.68	1.22	36.15	51.65	0.60	1.00	0.91		
										1.00	1.00	YES
Seventh	R6	Bedroom	W7-L	0.68	1.18	53.37	57.57	0.60	0.20	0.23		
			W7-U	0.68	2.20	53.29	57.57	0.60	1.00	2.16		
										2.40	1.00	YES
Seventh	R7	Living Room	W8-L	0.68	1.18	58.85	86.17	0.60	0.20	0.17		
			W8-U	0.68	2.20	58.78	86.17	0.60	1.00	1.59		
										1.77	1.50	YES

Project Name: Mountview Lodge Project No.: 11286 Report Title: Average Daylight Analysis - Proposed accommodation Date: 04/10/2018

Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Recom'd Value	Meets BRE Criteria
Eighth	R1	LKD	W1-L	0.68	1.30	76.62	114.04	0.60	0.20	0.19		
			W1-U	0.68	2.84	79.46	114.04	0.60	1.00	2.10		
			W2-L	0.68	1.29	74.00	114.04	0.60	0.20	0.18		
			W2-U	0.68	2.81	76.98	114.04	0.60	1.00	2.02		
										4.48	2.00	YES
Eighth	R2	Bedroom	W3-L	0.68	1.27	71.03	43.23	0.60	0.20	0.44		
			W3-U	0.68	2.78	74.18	43.23	0.60	1.00	5.07		
										5.52	1.00	YES
Eighth	R3	Bedroom	W4-L	0.68	1.29	67.87	51.58	0.60	0.20	0.36		
			W4-U	0.68	2.81	71.47	51.58	0.60	1.00	4.14		
										4.50	1.00	YES
Eighth	R4	Bedroom	W5-L	0.68	0.66	47.80	42.91	0.60	0.20	0.16		
			W5-U	0.68	1.45	46.16	42.91	0.60	1.00	1.66		
										1.82	1.00	YES
Eighth	R5	Bedroom	W6-L	0.68	1.28	54.52	53.59	0.60	0.20	0.28		
			W6-U	0.68	2.79	51.22	53.59	0.60	1.00	2.83		
										3.11	1.00	YES
Eighth	R6	Living Room	W7-L	0.68	1.28	59.12	73.16	0.60	0.20	0.22		
			W7-U	0.68	2.79	55.75	73.16	0.60	1.00	2.26		
										2.48	1.50	YES



Notes

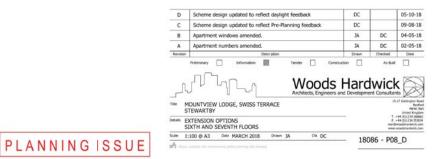
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RISER



PROPOSED NEW SIXTH FLOOR 1:100

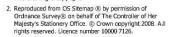
PROPOSED NEW SEVENTH FLOOR 1:100

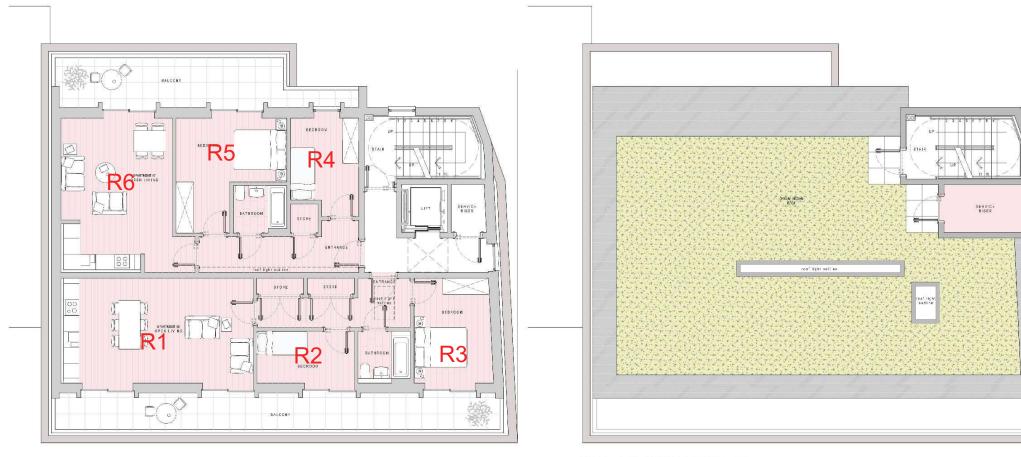






Notes





PROPOSED NEW EIGHTH FLOOR 1:100

PROPOSED NEW ROOF TOP 1:100

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**APPENDIX 4** 

PERMANENT OVERSHADOWING TO NEIGHBOURING AMENITY AREA

Wews centre their	ents								Sources of Information: Survey Greenhatch Group, job no. 18; and job no. 18737a issued on - 18737_0103_P - Existing Flev - 18737_04_E - Existing Flev - 18737_0103_P - Outline Rod - 18737_0107_E - Existing Slev - 18737_0107_E - Outline Rod - 18736 - P01_P - Outline Rod - 18086 - P08_D Extension of - 18086 - P08_D Extension of - 18086 - P09_D Extension of - 18086 - P12_B Proposed S - 18086 - P12_B Rod - 18086 - P12_B	te Building ntour ontour rea 2h sunlight 737 issued on 19.07.2 15.01.2014. Ref: Drg: loor plans rations MG_20140321_0947- on 5.10.2018. Ref: plions Sixth and seve ptions Eight floor and d Elevations ription ription ondon NW4 2HW o.uk hapiro / Lodge	013 No 49 nth
	Floor	Amenity	Am	nenity	Lit Area	Lit Area	Pr/Ex	Meets BRE	9 Swiss Te NW6 4RR DRAWING: Plan View		
	Ref. Ref. Area Existing Proposed Pr/Ex Criteria   Mews Centre Heights Image: Centre Heights Image: Centre Heights Image: Centre Heights Image: Centre Heights										
	Ground	A1	Area m2 17 Percentage	75.04	13.68 8%	13.68 <mark>8%</mark>	1.00	YES	DATE: 21.09.2018 DRAWING NO: 11286.06	RE	':