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Daylight and Sunlight Study (Within Development)
1 Hampshire Street, London NW5 2TE

28 April 2017

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CONTENTS

1 EXECUTIVE SUMMARY

1.1 Overview

1.1.1 Right of Light Consulting has been commissioned by Redtree (North London) Ltd to undertake a daylight and sunlight study in connection with the development at 1 Hampshire Street, London NW5 2TE. The aim of the study is to check whether or not the proposed habitable rooms receive satisfactory levels of daylight and sunlight.

1.1.2 The study is based on the numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a good practice guide' by P J Littlefair 2011.

1.1.3 Appendix 1 identifies the windows analysed in this study. The numerical test results (including all calculation workings) are provided in Appendix 2. No sky line contours are presented in Appendix 3.

1.1.1 Right of Light Consulting confirms that the proposed development design achieves a very high level of compliance with the BRE recommendations. In our opinion there is no daylight/sunlight related reason why planning permission should not be granted for this scheme.

2 INFORMATION SOURCES

2.1 Documents Considered

2.1.1 This report is based on the following drawings:

SADA Architecture

100	Site Location Plan	Rev P.01
101	Site Layout Plan	Rev P.01
300	Proposed Ground Floor Plan	Rev P.01
301	Proposed First Floor Plan	Rev P.01
302	Proposed Second Floor Plan	Rev P.01
303	Proposed Third Floor Plan	Rev P.01
304	Proposed Fourth Floor Plan	Rev P.01
400	Section A – A	Rev P.01
500	Elevations (North)	Rev S.01
510	Proposed Front Elevation (North)	Rev P.07
511	Proposed Side Elevation (East)	Rev P.01
512	Proposed Side Elevation (West)	Rev P.01
513	Proposed Rear Elevation (South)	Rev P.01

3 METHODOLOGY OF THE STUDY

3.1 BRE Guide : Site Layout Planning for Daylight and Sunlight

3.1.1 The study is based on the numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a good practice guide' by P J Littlefair 2011.

3.1.2 The standards set out in the BRE guide are intended to be used flexibly. In instances where there is a special requirement for daylight or sunlight, higher levels may be deemed necessary. In other situations, such as with urban developments, lower daylight and sunlight levels may be unavoidable. The following statement is quoted directly from the BRE guide:

3.1.3 "The guide is intended for building designers and their clients, consultants and planning officials. The advice given is not mandatory and this document should not be considered as an instrument of planning policy. Its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly because natural lighting is only one of the many factors in site layout design."

3.2 Interior Daylighting

3.2.1 The interior daylighting recommendations set out in BRE guide are based on British Standard BS 8206 Part 2 and the Chartered Institute of Building Services Engineers Applications Manual on window design. Collectively, the guides set out three main criteria for interior daylighting. These are summarised as follows:

3.2.2 Test 1 Average Daylight Factor *(df)*

The Average Daylight Factor can be calculated using the following formula:

$$df = \frac{T\ Aw\ \theta}{A\ (1-R^2)}\ \%$$

Where

T is the diffuse visible transmittance of the glazing (BRE standard of 0.68 and for rear bedroom translucent glazing, we have assumed a T value of 0.68 assuming that suitable glazing product will be specified e.g. Pilkington Opti Float).

Aw is the net glazed area of the window (m^2)

A is the total area of the room surfaces (m^2)
R is their average reflectance
Θ is the angle of visible sky in degrees

The Average Daylight factor test is applied to habitable rooms within domestic properties. A kitchen is generally deemed to be a habitable room if it is large enough to accommodate a dining area. If the kitchen is small or if the property has a separate dining area then the accepted practice is to treat the kitchen as a non habitable room.

For the purpose of this study we have assumed BRE internal reflectance values pertaining to medium wooden floors, light painted walls and white painted ceilings.

The guide recommends an Average Daylight Factor of 5% or more if there is no supplementary electric lighting, or 2% or more if supplementary lighting is provided. There are additional minimum recommendations for dwellings of 2% for kitchens, 1.5% for living rooms and 1% for bedrooms.

A special procedure is required for floor to ceiling windows such as patio doors. If part of a window is below the height of the working plane (a horizontal plane 0.85m above the floor in housing), this portion should be treated as a separate window. The ADF for this window has an extra factor applied to it, to take account of the reduced effectiveness of low level glazing in lighting the room. A value equal to the floor reflectance may be taken for this factor. The ADF for the portion of the window above the working plane is calculated in the normal way without this additional factor, and the ADFs for the two portions are added together.

3.2.3 Test 2 Room Depth

If a daylit room is lit by windows in one wall only, the depth of the room L should not exceed the limiting value given by:

$$\frac{L}{W} + \frac{L}{H} \leq \frac{2}{1-R_b}$$

Where

W is the room width
H is the window-head height above floor level
R_b is the average reflectance of the surfaces in the rear half of the room

3.2.4 Test 3 Position of the no sky line

If a significant area of the working plane lies beyond the no sky line (i.e. it receives no direct skylight), then the distribution of daylight in the room will look poor and supplementary electric lighting will be required.

The no sky line assessment is not applicable where a room derives its daylight solely from a light well or atrium. In these situations the room relies on borrowed light instead of direct skylight.

3.3 Sunlight to Windows

3.3.1 The BRE guide recommends that where possible each dwelling should have at least one main living room window that faces within 90 degrees of due south. However, the guide acknowledges that this is not always possible when it comes to flats.

3.3.2 The BRE sunlight tests should be applied to all main living rooms and conservatories which have a window which faces within 90 degrees of due south. The guide states that sunlight is viewed as less important in kitchens and bedrooms. In non-domestic buildings, any spaces which are deemed to have a specific requirement for sunlight should be checked.

3.3.3 The BRE guide recommends that main living room windows should receive 25% of the total annual probable sunlight hours, including 5% of the annual probable sunlight hours during the winter months between 21st September and 21st March.

3.4 Overshadowing to Gardens and Open Spaces

3.4.1 The availability of sunlight should be checked for all open spaces where sunlight is required. This would normally include:

- Gardens, usually the main back garden of a house
- Parks and playing fields
- Children's playgrounds
- 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.

3.4.2 The BRE guide recommends that for an open space to appear adequately lit throughout the year, at least 50% of its area should receive two hours of sunlight on 21st March

4 RESULTS OF THE STUDY

4.1 Window Reference Points

4.1.1 Refer to Appendix 1 for a drawing which identifies the positions of the windows analysed in this study.

4.2 Numerical Results and No Sky Line Contours

4.2.1 The numerical test results including all calculation workings are provided in Appendix 2. No sky line contours for the habitable rooms are presented in Appendix 3.

4.3 Interior Daylighting

4.3.1 All rooms meet or surpass the BRE Average Daylight Factor targets.

4.3.2 All rooms pass the room depth test.

4.3.3 The BRE guide does not give fixed numerical pass/fail criteria for the No Sky Line test when applied to new dwellings (guidance is given for when this test is applied to existing neighbouring buildings). However, for completeness, we have illustrated the no sky line contours in Appendix 3. The contours illustrate good access to daylight over a significant part of the working plane.

4.4 Sunlight to Windows

4.4.1 All living room windows do not face within 90 degrees of due south and will therefore not receive ideal levels of direct sunlight. However, the BRE guide acknowledges that it is not always possible for every dwelling to be well situated to receive direct sunlight. Notwithstanding this, we note that each dwelling has been designed to be dual aspect and the results confirm that each unit does have access to direct sunlight via the bedrooms sited to the rear of the development.

4.5 Conclusion

4.5.1 Right of Light Consulting confirms that the proposed development design achieves a very high level of compliance with the BRE recommendations. In our opinion there is no daylight/sunlight related reason why planning permission should not be granted for this scheme.

5 CLARIFICATIONS

5.1 General

5.1.1 The report provided is solely for the use of the client and no liability to anyone else is accepted.

5.1.2 We have undertaken the survey following the guidelines of the RICS publication “Surveying Safely”.

5.1.3 Where limited access is available, reasonable assumptions will have been made.

5.1.4 Right of Light Consulting have endeavoured to include in the report those matters, which they have knowledge of or of which they have been made aware, that might adversely affect the validity of the opinion given.

5.1.5 Right of Light Consulting will notify those instructing them immediately and confirm in writing if for any reason the report requires any correction or qualification.

5.1.6 Right of Light Consulting confirm that they have used their best endeavours to ensure that the facts stated in this report are correct and that the opinions expressed represent a true and complete professional opinion.

5.2 Project Specific

5.2.1 None

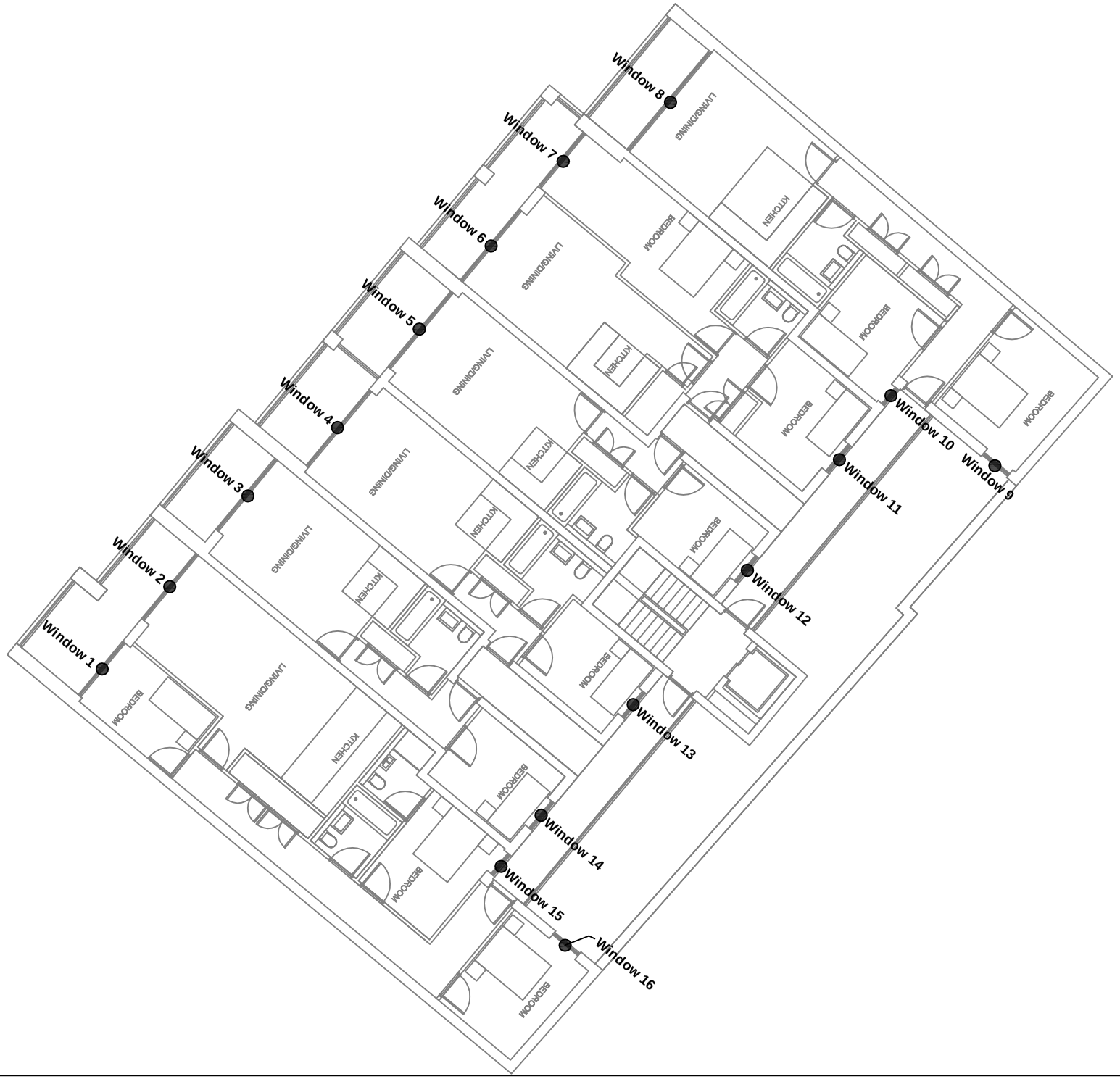
APPENDICES

APPENDIX 1

WINDOW KEY

Proposed First Floor

Appendix 1 Window Key



Key:

Window 1 ● Window reference

Project Name:	1 Hampshire Street, London NW5 2TE
Drawing Title:	Window Key
Scale:	Do not scale
Drawing No:	1 of 3
Rev.	-

Rev	Date	Details of revision

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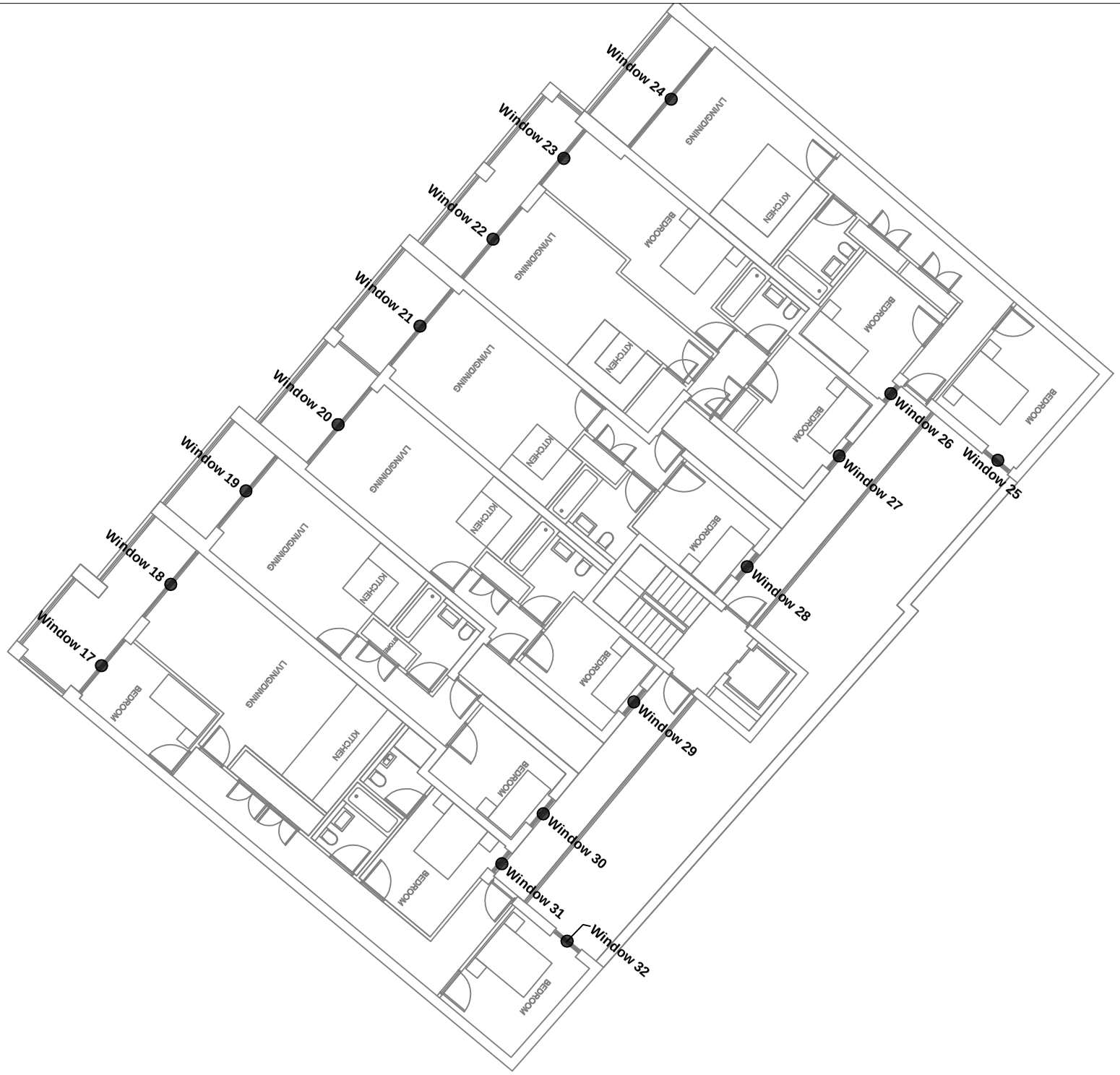
Proposed Second Floor

Appendix 1 Window Key



Key:

Window 1 ● Window reference

Project Name:	1 Hampshire Street, London NW5 2TE
Drawing Title:	Window Key
Scale:	Do not scale
Drawing No:	2 of 3
Rev.	-

Rev	Date	Details of revision

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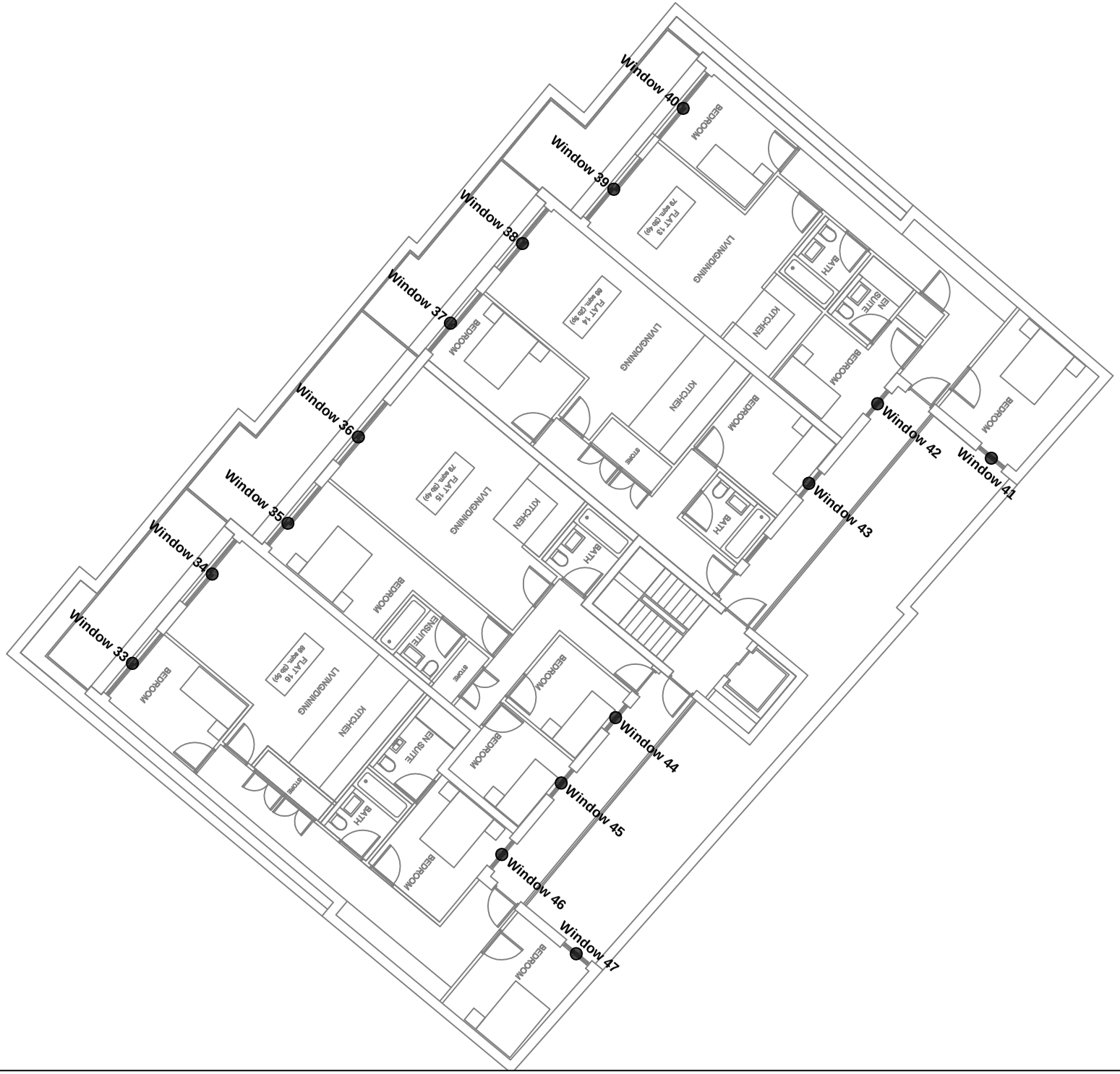
Proposed Third Floor

Appendix 1 Window Key



Key:

Window 1 ● Window reference

Project Name:	1 Hampshire Street, London NW5 2TE
Drawing Title:	Window Key
Scale:	Do not scale
Drawing No:	3 of 3
Rev.	-

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APPENDIX 2

DAYLIGHT AND SUNLIGHT CALCULATIONS

Appendix 2 - Average Daylight Factor (ADF)
1 Hampshire Street, London NW5 2TE

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					Actual ADF	
	Primary room use	ADF	T	Aw	A	R	Theta	ADF	Result
Proposed First Floor									
Window 1 (lower)			0.68	1.52	44.98	0.67	36.2	0.6%	
Window 1 (upper)			0.68	2.78	44.98	0.67	25.3	1.9%	
Total ADF for room	Bedroom	1.0%						**2.5%**	**Pass**
Window 2 (lower)			0.68	1.86	93.73	0.68	38.9	0.4%	
Window 2 (upper)			0.68	3.39	93.73	0.68	30.1	1.4%	
Total ADF for room	Living/Dining	1.5%						**1.8%**	**Pass**
Window 3 (lower)			0.68	2.02	72.01	0.67	42.5	0.6%	
Window 3 (upper)			0.68	3.69	72.01	0.67	31.5	2.0%	
Total ADF for room	Living/Dining	1.5%						**2.6%**	**Pass**
Window 4 (lower)			0.68	2.16	77.75	0.67	39.6	0.6%	
Window 4 (upper)			0.68	3.93	77.75	0.67	28.6	1.8%	
Total ADF for room	Living/Dining	1.5%						**2.4%**	**Pass**
Window 5 (lower)			0.68	2.16	77.75	0.67	41.1	0.6%	
Window 5 (upper)			0.68	3.93	77.75	0.67	28.8	1.8%	
Total ADF for room	Living/Dining	1.5%						**2.4%**	**Pass**
Window 6 (lower)			0.68	2.02	86.58	0.68	41.2	0.5%	
Window 6 (upper)			0.68	3.69	86.58	0.68	31.6	1.7%	
Total ADF for room	Living/Dining	1.5%						**2.2%**	**Pass**
Window 7 (lower)			0.68	1.55	81.8	0.69	44.1	0.4%	
Window 7 (upper)			0.68	2.82	81.8	0.69	32.3	1.5%	
Total ADF for room	Bedroom	1.0%						**1.9%**	**Pass**
Window 8 (lower)			0.68	2.82	72.06	0.65	42.1	0.8%	
Window 8 (upper)			0.68	5.14	72.06	0.65	32.9	2.8%	
Total ADF for room	Living/Dining	1.5%						**3.6%**	**Pass**
Window 9 (lower)			0.68	0.72	58.85	0.7	51.4	0.3%	
Window 9 (upper)			0.68	1.32	58.85	0.7	53.3	1.6%	
Total ADF for room	Bedroom	1.0%						**1.9%**	**Pass**
Window 10 (lower)			0.68	0.5	49.6	0.71	37.2	0.2%	
Window 10 (upper)			0.68	0.93	49.6	0.71	29.6	0.8%	

Appendix 2 - Average Daylight Factor (ADF)
1 Hampshire Street, London NW5 2TE

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					Actual ADF	
	Primary room use	ADF	T	Aw	A	R	Theta	ADF	Result
Total ADF for room	Bedroom	1.0%						**1.0%**	**Pass**
Window 11 (lower)			0.68	0.77	51.22	0.7	43.6	0.4%	
Window 11 (upper)			0.68	1.4	51.22	0.7	34.8	1.3%	
Total ADF for room	Bedroom	1.0%						**1.7%**	**Pass**
Window 12 (lower)			0.68	0.72	44.98	0.7	40.8	0.4%	
Window 12 (upper)			0.68	1.32	44.98	0.7	32.6	1.3%	
Total ADF for room	Bedroom	1.0%						**1.7%**	**Pass**
Window 13 (lower)			0.68	0.72	44.98	0.7	41.0	0.4%	
Window 13 (upper)			0.68	1.32	44.98	0.7	32.6	1.3%	
Total ADF for room	Bedroom	1.0%						**1.7%**	**Pass**
Window 14 (lower)			0.68	0.77	44.98	0.7	43.4	0.4%	
Window 14 (upper)			0.68	1.4	44.98	0.7	34.1	1.4%	
Total ADF for room	Bedroom	1.0%						**1.8%**	**Pass**
Window 15 (lower)			0.68	0.58	50.68	0.71	38.3	0.2%	
Window 15 (upper)			0.68	1.05	50.68	0.71	29.9	0.8%	
Total ADF for room	Bedroom	1.0%						**1.0%**	**Pass**
Window 16 (lower)			0.68	0.72	51.63	0.7	48.8	0.4%	
Window 16 (upper)			0.68	1.32	51.63	0.7	50.4	1.7%	
Total ADF for room	Bedroom	1.0%						**2.1%**	**Pass**
Second Floor									
Window 17 (lower)			0.68	1.52	44.98	0.67	41.8	0.7%	
Window 17 (upper)			0.68	2.78	44.98	0.67	33.2	2.5%	
Total ADF for room	Bedroom	1.0%						**3.2%**	**Pass**
Window 18 (lower)			0.68	1.86	93.73	0.68	39.6	0.4%	
Window 18 (upper)			0.68	3.39	93.73	0.68	32.9	1.5%	
Total ADF for room	Living/Dining	1.5%						**1.9%**	**Pass**
Window 19 (lower)			0.68	2.02	72.01	0.67	42.5	0.6%	
Window 19 (upper)			0.68	3.69	72.01	0.67	34.5	2.2%	
Total ADF for room	Living/Dining	1.5%						**2.8%**	**Pass**
Window 20 (lower)			0.68	2.16	77.8	0.67	39.9	0.6%	

Appendix 2 - Average Daylight Factor (ADF)
1 Hampshire Street, London NW5 2TE

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					Actual ADF	
	Primary room use	ADF	T	Aw	A	R	Theta	ADF	Result
Window 20 (upper)			0.68	3.93	77.8	0.67	31.4	2.0%	
Total ADF for room	Living/Dining	1.5%						**2.6%**	**Pass**
Window 21 (lower)			0.68	2.16	77.75	0.67	41.3	0.6%	
Window 21 (upper)			0.68	3.93	77.75	0.67	31.9	2.0%	
Total ADF for room	Living/Dining	1.5%						**2.6%**	**Pass**
Window 22 (lower)			0.68	2.02	86.57	0.68	41.5	0.5%	
Window 22 (upper)			0.68	3.69	86.57	0.68	34.3	1.9%	
Total ADF for room	Living/Dining	1.5%						**2.4%**	**Pass**
Window 23 (lower)			0.68	1.55	81.8	0.69	44.3	0.4%	
Window 23 (upper)			0.68	2.82	81.8	0.69	36.0	1.6%	
Total ADF for room	Bedroom	1.0%						**2.0%**	**Pass**
Window 24 (lower)			0.68	2.82	72.06	0.65	42.5	0.8%	
Window 24 (upper)			0.68	5.14	72.06	0.65	35.6	3.0%	
Total ADF for room	Living/Dining	1.5%						**3.8%**	**Pass**
Window 25 (lower)			0.68	0.72	58.85	0.7	56.7	0.4%	
Window 25 (upper)			0.68	1.32	58.85	0.7	60.0	1.8%	
Total ADF for room	Bedroom	1.0%						**2.2%**	**Pass**
Window 26 (lower)			0.68	0.5	50.3	0.71	37.2	0.2%	
Window 26 (upper)			0.68	0.93	50.3	0.71	32.6	0.8%	
Total ADF for room	Bedroom	1.0%						**1.0%**	**Pass**
Window 27 (lower)			0.68	0.77	51.22	0.7	43.6	0.4%	
Window 27 (upper)			0.68	1.4	51.22	0.7	38.8	1.4%	
Total ADF for room	Bedroom	1.0%						**1.8%**	**Pass**
Window 28 (lower)			0.68	0.72	44.98	0.7	40.9	0.4%	
Window 28 (upper)			0.68	1.32	44.98	0.7	36.2	1.4%	
Total ADF for room	Bedroom	1.0%						**1.8%**	**Pass**
Window 29 (lower)			0.68	0.72	44.98	0.7	41.0	0.4%	
Window 29 (upper)			0.68	1.32	44.98	0.7	36.4	1.4%	
Total ADF for room	Bedroom	1.0%						**1.8%**	**Pass**
Window 30 (lower)			0.68	0.77	44.98	0.7	43.5	0.4%	

Appendix 2 - Average Daylight Factor (ADF)
1 Hampshire Street, London NW5 2TE

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					Actual ADF	
	Primary room use	ADF	T	Aw	A	R	Theta	ADF	Result
Window 30 (upper)			0.68	1.4	44.98	0.7	38.3	1.6%	
Total ADF for room	Bedroom	1.0%						**2.0%**	**Pass**
Window 31 (lower)			0.68	0.58	50.68	0.71	38.3	0.2%	
Window 31 (upper)			0.68	1.05	50.68	0.71	33.3	0.9%	
Total ADF for room	Bedroom	1.0%						**1.1%**	**Pass**
Window 32 (lower)			0.68	0.72	51.63	0.7	53.4	0.4%	
Window 32 (upper)			0.68	1.32	51.63	0.7	56.1	1.9%	
Total ADF for room	Bedroom	1.0%						**2.3%**	**Pass**
Third Floor									
Window 33 (lower)			0.68	1.8	46.24	0.66	66.1	1.2%	
Window 33 (upper)			0.68	3.27	46.24	0.66	71.9	6.1%	
Total ADF for room	Bedroom	1.0%						**7.3%**	**Pass**
Window 34 (lower)			0.68	1.8	93.42	0.68	66.1	0.6%	
Window 34 (upper)			0.68	3.27	93.42	0.68	71.9	3.2%	
Total ADF for room	Living/Dining	1.5%						**3.8%**	**Pass**
Window 35 (lower)			0.68	1.7	76.51	0.69	64.2	0.8%	
Window 35 (upper)			0.68	3.1	76.51	0.69	66.5	3.5%	
Total ADF for room	Bedroom	1.0%						**4.3%**	**Pass**
Window 36 (lower)			0.68	1.7	107.69	0.68	69.5	0.6%	
Window 36 (upper)			0.68	3.1	107.69	0.68	72.2	2.7%	
Total ADF for room	Living/Dining	1.5%						**3.3%**	**Pass**
Window 37 (lower)			0.68	1.7	52.48	0.67	67.2	1.1%	
Window 37 (upper)			0.68	3.1	52.48	0.67	72.1	5.2%	
Total ADF for room	Bedroom	1.0%						**6.3%**	**Pass**
Window 38 (lower)			0.68	1.7	93.73	0.69	65.0	0.6%	
Window 38 (upper)			0.68	3.1	93.73	0.69	71.3	3.0%	
Total ADF for room	Living/Dining	1.5%						**3.6%**	**Pass**
Window 39 (lower)			0.68	1.77	88.79	0.68	62.1	0.6%	
Window 39 (upper)			0.68	3.24	88.79	0.68	64.7	3.0%	
Total ADF for room	Living/Dining	1.5%						**3.6%**	**Pass**

Appendix 2 - Average Daylight Factor (ADF)
1 Hampshire Street, London NW5 2TE

Reference	Target ADF based on room use		Average Daylight Factor Coefficients					Actual ADF	
	Primary room use	ADF	T	Aw	A	R	Theta	ADF	Result
Window 40 (lower)			0.68	1.77	45.37	0.66	42.9	0.8%	
Window 40 (upper)			0.68	3.24	45.37	0.66	35.7	3.1%	
Total ADF for room	Bedroom	1.0%						**3.9%**	**Pass**
Window 41 (lower)			0.68	0.72	57.12	0.7	66.5	0.4%	
Window 41 (upper)			0.68	1.32	57.12	0.7	74.4	2.3%	
Total ADF for room	Bedroom	1.0%						**2.7%**	**Pass**
Window 42 (lower)			0.68	0.72	49.16	0.71	40.2	0.3%	
Window 42 (upper)			0.68	1.32	49.16	0.71	36.1	1.3%	
Total ADF for room	Bedroom	1.0%						**1.6%**	**Pass**
Window 43 (lower)			0.68	0.72	47.76	0.7	47.7	0.4%	
Window 43 (upper)			0.68	1.32	47.76	0.7	42.4	1.6%	
Total ADF for room	Bedroom	1.0%						**2.0%**	**Pass**
Window 44 (lower)			0.68	0.72	39.96	0.7	44.9	0.4%	
Window 44 (upper)			0.68	1.32	39.96	0.7	40.5	1.8%	
Total ADF for room	Bedroom	1.0%						**2.2%**	**Pass**
Window 45 (lower)			0.68	0.77	40.06	0.7	47.3	0.5%	
Window 45 (upper)			0.68	1.4	40.06	0.7	42.2	2.0%	
Total ADF for room	Bedroom	1.0%						**2.5%**	**Pass**
Window 46 (lower)			0.68	0.77	49.65	0.7	40.6	0.3%	
Window 46 (upper)			0.68	1.4	49.65	0.7	36.3	1.4%	
Total ADF for room	Bedroom	1.0%						**1.7%**	**Pass**
Window 47 (lower)			0.68	0.72	49.93	0.7	65.8	0.5%	
Window 47 (upper)			0.68	1.32	49.93	0.7	73.7	2.6%	
Total ADF for room	Bedroom	1.0%						**3.1%**	**Pass**

Appendix 2 - Room Depth Calculation
1 Hampshire Street, London NW5 2TE

Room	Room Depth Coefficients				Room Depth Calculation			Result
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb	
Proposed First Floor								
Window 1	3.6	2.4	2.4	0.68	3.0	<=	6.25	Pass
Window 2	6.0	4.5	2.4	0.69	3.83	<=	6.42	Pass
Window 3	5.0	3.5	2.4	0.68	3.51	<=	6.24	Pass
Window 4	5.5	3.5	2.4	0.68	3.86	<=	6.21	Pass
Window 5	5.5	3.5	2.4	0.68	3.86	<=	6.21	Pass
Window 6	7.1	3.6	2.4	0.69	4.93	<=	6.49	Pass
Window 7	7.3	2.8	2.4	0.7	5.65	<=	6.66	Pass
Window 8	4.9	4.0	2.4	0.66	3.27	<=	5.97	Pass
Window 9	3.9	3.3	2.4	0.71	2.81	<=	6.86	Pass
Window 10	3.1	3.2	2.4	0.72	2.26	<=	7.1	Pass
Window 11	3.3	3.3	2.4	0.71	2.38	<=	6.89	Pass
Window 12	3.2	2.6	2.4	0.71	2.56	<=	6.9	Pass
Window 13	3.3	2.6	2.4	0.71	2.64	<=	6.9	Pass
Window 14	3.3	2.6	2.4	0.71	2.64	<=	6.86	Pass
Window 15	2.8	3.6	2.4	0.71	1.94	<=	7.01	Pass
Window 16	3.6	2.9	2.4	0.71	2.74	<=	6.89	Pass
Second Floor								
Window 17	3.6	2.4	2.4	0.68	3.0	<=	6.25	Pass
Window 18	6.0	4.5	2.4	0.69	3.83	<=	6.42	Pass
Window 19	5.0	3.5	2.4	0.68	3.51	<=	6.24	Pass
Window 20	5.5	3.5	2.4	0.68	3.86	<=	6.21	Pass
Window 21	5.5	3.5	2.4	0.68	3.86	<=	6.21	Pass
Window 22	7.1	3.6	2.4	0.69	4.93	<=	6.49	Pass
Window 23	7.3	2.8	2.4	0.7	5.65	<=	6.66	Pass
Window 24	4.9	4.0	2.4	0.66	3.27	<=	5.97	Pass
Window 25	3.9	3.3	2.4	0.71	2.81	<=	6.86	Pass
Window 26	3.1	3.2	2.4	0.72	2.26	<=	7.1	Pass
Window 27	3.3	3.3	2.4	0.71	2.38	<=	6.89	Pass
Window 28	3.2	2.6	2.4	0.71	2.56	<=	6.9	Pass
Window 29	3.3	2.6	2.4	0.71	2.64	<=	6.9	Pass
Window 30	3.3	2.6	2.4	0.71	2.64	<=	6.86	Pass
Window 31	2.8	3.6	2.4	0.71	1.94	<=	7.01	Pass
Window 32	3.6	2.9	2.4	0.71	2.74	<=	6.89	Pass

Appendix 2 - Room Depth Calculation
1 Hampshire Street, London NW5 2TE

Room	Room Depth Coefficients				Room Depth Calculation			Result
	L	W	H	Rb	L/W + L/H	<=	2/1-Rb	
Third Floor								
Window 33	3.4	2.6	2.4	0.67	2.72	<=	6.06	Pass
Window 34	5.4	5.1	2.4	0.69	3.31	<=	6.44	Pass
Window 35	7.2	2.8	2.4	0.7	5.57	<=	6.66	Pass
Window 36	7.2	4.4	2.4	0.69	4.64	<=	6.49	Pass
Window 37	4.0	2.6	2.4	0.68	3.21	<=	6.21	Pass
Window 38	6.0	4.7	2.4	0.69	3.78	<=	6.51	Pass
Window 39	5.2	4.9	2.4	0.69	3.23	<=	6.44	Pass
Window 40	3.4	2.6	2.4	0.67	2.72	<=	6.06	Pass
Window 41	3.9	3.2	2.4	0.71	2.84	<=	6.87	Pass
Window 42	2.8	3.9	2.4	0.72	1.88	<=	7.06	Pass
Window 43	3.3	2.8	2.4	0.71	2.55	<=	6.89	Pass
Window 44	2.8	2.6	2.4	0.71	2.24	<=	6.89	Pass
Window 45	2.8	2.6	2.4	0.71	2.24	<=	6.84	Pass
Window 46	2.8	3.5	2.4	0.71	1.97	<=	6.85	Pass
Window 47	3.6	2.8	2.4	0.71	2.79	<=	6.89	Pass

Appendix 2 - Sunlight to Windows
1 Hampshire Street, London NW5 2TE

Reference	Use Class	Annual Probable Sunlight Hours	
		Total	Winter
Proposed First Floor			
Window 2	Living/Dining	1%	0%
Window 3	Living/Dining	3%	0%
Window 4	Living/Dining	2%	0%
Window 5	Living/Dining	4%	1%
Window 6	Living/Dining	2%	0%
Window 8	Living/Dining	2%	0%
Window 9	Bedroom	31%	13%
Window 10	Bedroom	6%	6%
Window 11	Bedroom	8%	7%
Window 12	Bedroom	9%	5%
Window 13	Bedroom	7%	7%
Window 14	Bedroom	9%	5%
Window 15	Bedroom	6%	2%
Second Floor			
Window 18	Living/Dining	2%	0%
Window 19	Living/Dining	4%	0%
Window 20	Living/Dining	2%	0%
Window 21	Living/Dining	4%	1%
Window 22	Living/Dining	2%	0%
Window 24	Living/Dining	2%	0%
Window 25	Bedroom	34%	13%
Window 26	Bedroom	6%	6%
Window 27	Bedroom	9%	8%
Window 28	Bedroom	10%	6%
Window 29	Bedroom	8%	8%
Window 30	Bedroom	10%	6%
Window 31	Bedroom	7%	3%
Third Floor			
Window 34	Living/Dining	5%	1%
Window 36	Living/Dining	3%	0%
Window 38	Living/Dining	5%	1%
Window 39	Living/Dining	1%	0%

Appendix 2 - Sunlight to Windows
1 Hampshire Street, London NW5 2TE

Reference	Use Class	Annual Probable Sunlight Hours	
		Total	Winter
Window 41	Bedroom	43%	16%
Window 42	Bedroom	7%	7%
Window 43	Bedroom	12%	9%
Window 44	Bedroom	10%	9%
Window 45	Bedroom	11%	7%
Window 46	Bedroom	8%	4%

APPENDIX 3

NO SKY LINE CONTOURS

Appendix 3 No Sky Line Contours

Proposed First Floor

Key:

1 Window reference

Area receives no direct sky light (applied to habitable rooms)

Area does receive direct sky light.

Light aperture.

Project Name: 1 Hampshire Street, London NW5 2TE

Drawing Title: No Sky Line Contours

Scale: Do not scale

Drawing No: 1 of 3 Rev. -

Rev	Date	Details of revision

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Appendix 3 No Sky Line Contours

Proposed Second Floor

Key:

1 Window reference

Area receives no direct sky light (applied to habitable rooms)

Area does receive direct sky light.

Light aperture.

Project Name:	1 Hampshire Street, London NW5 2TE
Drawing Title:	No Sky Line Contours
Scale:	Do not scale
Drawing No:	2 of 3
Rev.	-

Rev	Date	Details of revision

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Appendix 3 No Sky Line Contours

Proposed Third Floor

Key:

1 Window reference

Area receives no direct sky light (applied to habitable rooms)

Area does receive direct sky light.

Light aperture.

Project Name:	1 Hampshire Street, London NW5 2TE
Drawing Title:	No Sky Line Contours
Scale:	Do not scale
Drawing No:	3 of 3
Rev.	-

Rev	Date	Details of revision

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