

BRITANNIA STREET CARPARK LONDON BOROUGH OF CAMDEN

INTERNAL DAYLIGHT & SUNLIGHT ASSESSMENT

DIRECTOR: LIAM DUNFORD

CLIENT: CURLEW

DATE: JANUARY 2025

VERSION: RELEASE 12 FINAL 02

PROJECT: P3376

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1 Introduction

- 1.1 This report considers the daylight (CBDM) & sunlight amenity of the proposed redevelopment of Britannia Street Carpark – scheme received 02 January 2025. Through the planning process the local authority will wish to be reassured that the construction of the new scheme will benefit from acceptable levels of internal daylight amenity within BRE and British Standard Guidance.
- 1.2 The Local Authority will be informed in this by the BRE document entitled Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice 2022 (the BRE guidelines). This document is the principal guidance in this area and sets out the methodology for measuring light.
- 1.3 The BRE guidelines are not mandatory, though local planning authorities and planning inspectors will consider the suitability of a proposed scheme for a site within the context of BRE guidance. Consideration will be given to the urban context within which a scheme is located, and the internal daylight amenity will be one of several planning considerations which the local authority will weigh.

2 Sources of Information

2.1 In compiling this report, we have used the following information:

Point 2 Surveyors

Site Photos

Plowman Craven

Survey Info (received 14/09/23)

F48542-001-PCL-RM-ZZ-M3-Y-00001-S3-P01.dwg

Sheppard Robson

Proposed Info (received 02/01/25)

6910-SRA-ZZ-ZZ-M3-A-00001.rvt

6910-SRA-ZZ-ZZ-M3-A-00002.rvt

6910-SRA-ZZ-ZZ-M3-A-00003.rvt

Historic Existing info (received 05/09/24)

Britain from Above - Britannia Street 1951.png

Britain from Above - Britannia Street 1951 - 2.png

Consented Scheme info (planning application approved 21/03/07)

Drawing (1).PDF

3 Methodology

Daylight within Proposed Developments

- 3.1 The 2022 revision of the BRE guidelines provides that Climate Based Daylight Modelling (“CBDM”) can be used to assess internal daylight and sunlight. The new methodology is more complex versus the previous ADF assessment and has targets that are generally more difficult to achieve in an urban context.

Climate Based Daylight Modelling (CBDM)

- 3.2 The new CBDM methodology is based on the British Standard ‘Daylight in Buildings’ (BS EN17037). This contains advice and guidance on interior daylighting for all buildings across Europe but also has a UK National Annex which provides suggested targets for dwellings in the UK.
- 3.3 BS EN17037 supersedes BS 8206 Part 2 which was based on Average Daylight Factor (“ADF”) and is no longer recommended.
- 3.4 The CBDM methodology is based on target illuminances from daylight. This is the Daylight Illuminance (DI) to be achieved over half the area of the room (measured on a reference plane at tabletop level) for at least half of the daylight hours in a typical year. The calculations are based on weather data files which cover different regions of the UK. The calculations are done for each hour of the day for every day of the year. There are 8760 hours in the year, of which 4380 are daylight hours, and therefore the targets should be achieved for 2190 hours in the year. The methodology uses a more accurate sky model which simulates the movement of the sun throughout the day and accounts for the weather conditions at the time. As a result, CBDM accounts for the presence of sunlight and therefore the orientation of the rooms/windows is accounted for. A south facing room is likely to have access to higher levels of natural light than a north facing room and as a result, a north facing room would typically need larger windows to comply.
- 3.5 The UK National Annex provides illuminance recommendations of:
- 100 Lux in bedrooms;
 - 150 Lux in living rooms; and
 - 200 Lux in kitchens.
- 3.6 These are median illuminances to be achieved over 50% of the assessment grid for at least half of the daylight hours.
- 3.7 Where a room has a shared use, the highest target should apply. However, it also says that Local Authorities could use discretion here and that a living room target of 150 Lux could be used for combined living/kitchen/dining rooms if the kitchens are not treated as habitable spaces, as it may avoid small separate kitchens in the design.

- 3.8 There is a further simplistic methodology based on daylight factors (not the same as the old ADF methodology), which does not use climate-based data but uses a simple fixed sky model. However, since this alternative simplistic methodology does not account for the effect of sunlight, or the orientation of the room, it has not been used in our assessment.

Sunlight within Proposed Developments

- 3.9 For new buildings, the BRE guidelines refer to BS EN 17037 which says that a space should receive a minimum of 1.5 hours of sunlight on a selected date between 1st February and 21st March with cloudless conditions. The BRE guidelines suggests 21st March be used. For dwellings, at least one habitable room, preferably a main living room, should achieve at least this minimum criterion and that at least one main window faces within 90° of south. Whilst BS EN 17037 applies to all orientations, the BRE guidelines say that if the room faces significantly north of due east or west, the criterion is unlikely to be met.

4 Parameters and Assumptions

- 4.1 In order to calculate the various measures of daylight and sunlight it is necessary to construct a 3D computer model. The model is then analysed using proprietary software to calculate the various measures of daylight and sunlight.
- 4.2 The 3D model was created to reproduce the massing of the buildings both on and surrounding the site at a level of detail appropriate to the calculations performed.
- 4.3 In relation to the CBDM assessment of the daylight and sunlight within the proposed scheme, the following assumptions and parameters have been used.
- Light pastel internal painted walls with a reflectance of 0.7;
 - Light wood veneer floors/ cream carpets with a reflectance of 0.4;
 - White ceilings with a reflectance of 0.8; and
 - All external reflectance levels have been assumed as 0.2 (equivalent to red brick) as per the guidelines.
 - A transmittance factor of 0.68 for standard double glazing;
 - A maintenance factor of 8% has been allowed to account for the effect of dirt on the glass in an urban environment.
- 4.4 Double glazing has been assumed as standard. If any units will benefit from triple glazing, coatings and treatments, these will need to be reflected in the analysis and could impact on results as this will decrease the transmittance factor accordingly.
- 4.5 The room assessment grid area excludes a 300mm band around the perimeter of the room, as per the paragraph C28 of the BRE guidelines.

5 Internal Daylight & Sunlight Assessment

- 5.1 Full and detailed analysis annotated upon floor layout plans are provided within the Appendix (see drawing reference P3376/CBDM/03-08). These show both the locations and configurations of the rooms which have been analysed, together with the distribution of daylight illuminance (Lux levels) that are achieved for 50% of daylight hours and the median daylight illuminance figure for each room.
- 5.2 One hundred and twenty-one purpose build student accommodation (PBSA) bedrooms and four studies have been assessed across the first to the sixth floors, this represents all floors within the block which contain bedrooms.

Internal Daylight Amenity

- 5.3 One hundred and four of the one hundred and twenty-one bedrooms (86%) and all four of the studies within the proposal meet or surpass the desired lux target value appropriate for the rooms' usages, this provides a total compliance of 86.4%.
- 5.4 The seventeen bedroom derogations are rooms predominantly located on the first floor (twelve rooms), with four on the second floor and one on the third floor. Despite the derogations, interrogation of the plots (P3376/CBDM/03-05) where the derogations are present indicates that all rooms will enjoy light levels of 200 lux or greater at the front of the rooms where the main living area is located. We consider that despite these derogations, all rooms will enjoy good daylight.

Internal Sunlight Amenity

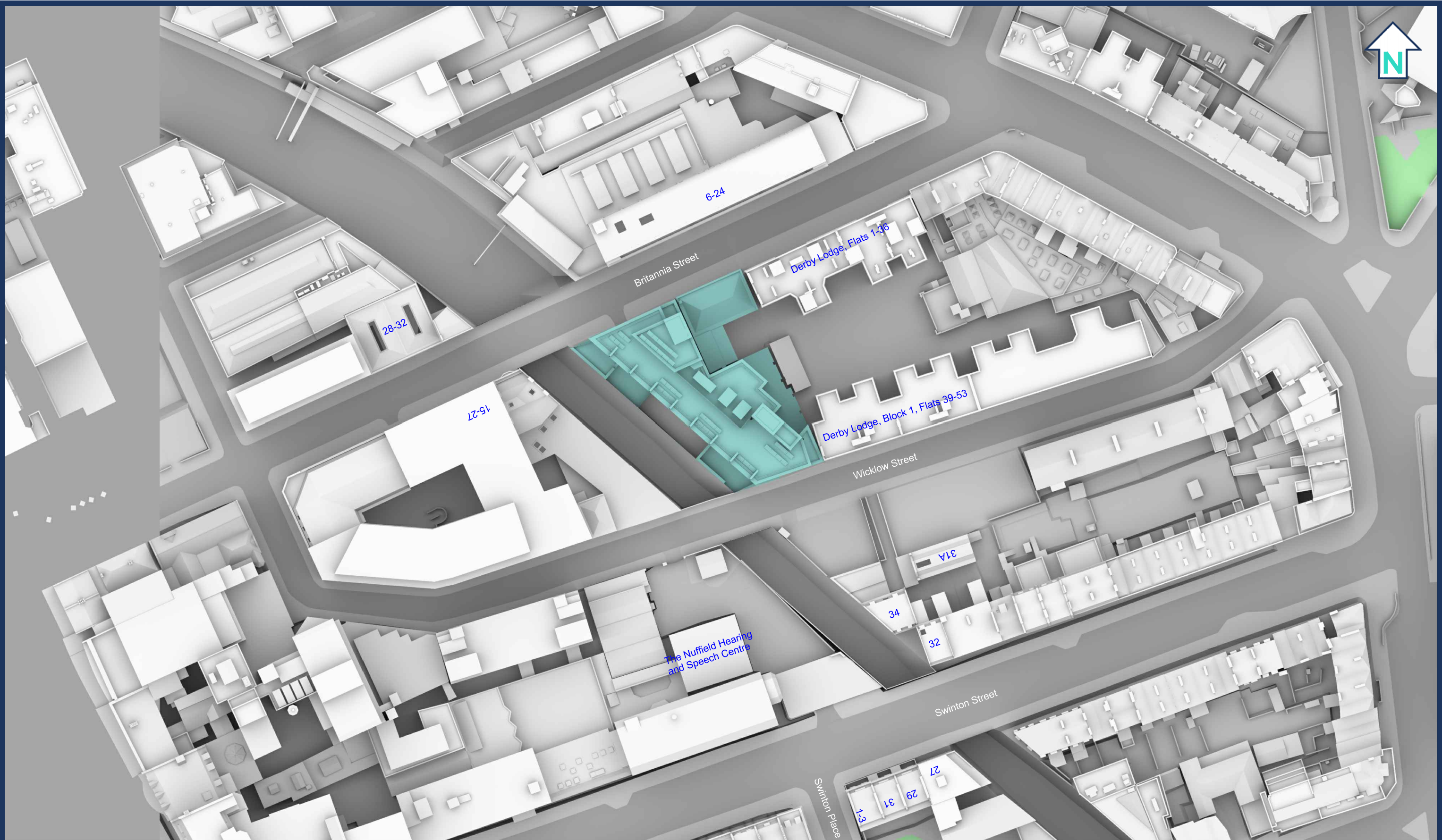
- 5.5 With reference to the potential for the habitable rooms within the Proposed Development to receive good levels of direct sunlight amenity, we have assessed all one hundred and twenty five bedrooms and studies. Of these, 99 (79%) meet the recommendations. These rooms are northerly facing and when developing an accommodation block inevitably some north facing rooms will derogate from the guidelines, regardless the overall sunlight levels are considered commensurate.

6 Conclusion

- 6.1 The appended results show that the Proposed Development demonstrates a very high level of compliance with BRE Guidance in terms of internal daylight amenity with 86.4% of rooms meeting the recommendations for daylight amenity. It is noted that derogations are restricted to the lower floors, however many of the derogations are small with all rooms enjoying 200 lux or greater at the front of the room where the main living space is located. With regards sunlight, 79% of rooms will meet the sunlight amenity, this is a good compliance rate considering the surrounding urban context.
- 6.2 Due to the high performance rate of the scheme, we fully support this planning application for internal daylight and sunlight amenity assessment.

Appendix 1: Drawings





Sources: Plowman Craven
Survey Info (received 14/09/23)
F48542-001-PCL-RM-ZZ-M3-Y-00001-S3-P01.dwg

Sheppard Robson
Proposed Info (received 02/01/25)
6910-SRA-ZZ-ZZ-M3-A-00001.rvt
6910-SRA-ZZ-ZZ-M3-A-00002.rvt
6910-SRA-ZZ-ZZ-M3-A-00003.rvt

Historic Existing info (received 05/09/24)
Britain from Above - Britannia Street 1951.png
Britain from Above - Britannia Street 1951 - 2.png

Consented Scheme info (planning application approved 21/03/07)
Drawing (1).PDF

Key:

Existing Buildings

Proposed Scheme

Scheme Confirmed:

--

Date:

--

Project:

Britannia Street Car Park
Kings Cross
London

Drawn By:

DK

Scale:

1:750 @ A3

Date:

Jan 25

Title:

Site Plan
Proposed Scheme 02/01/25

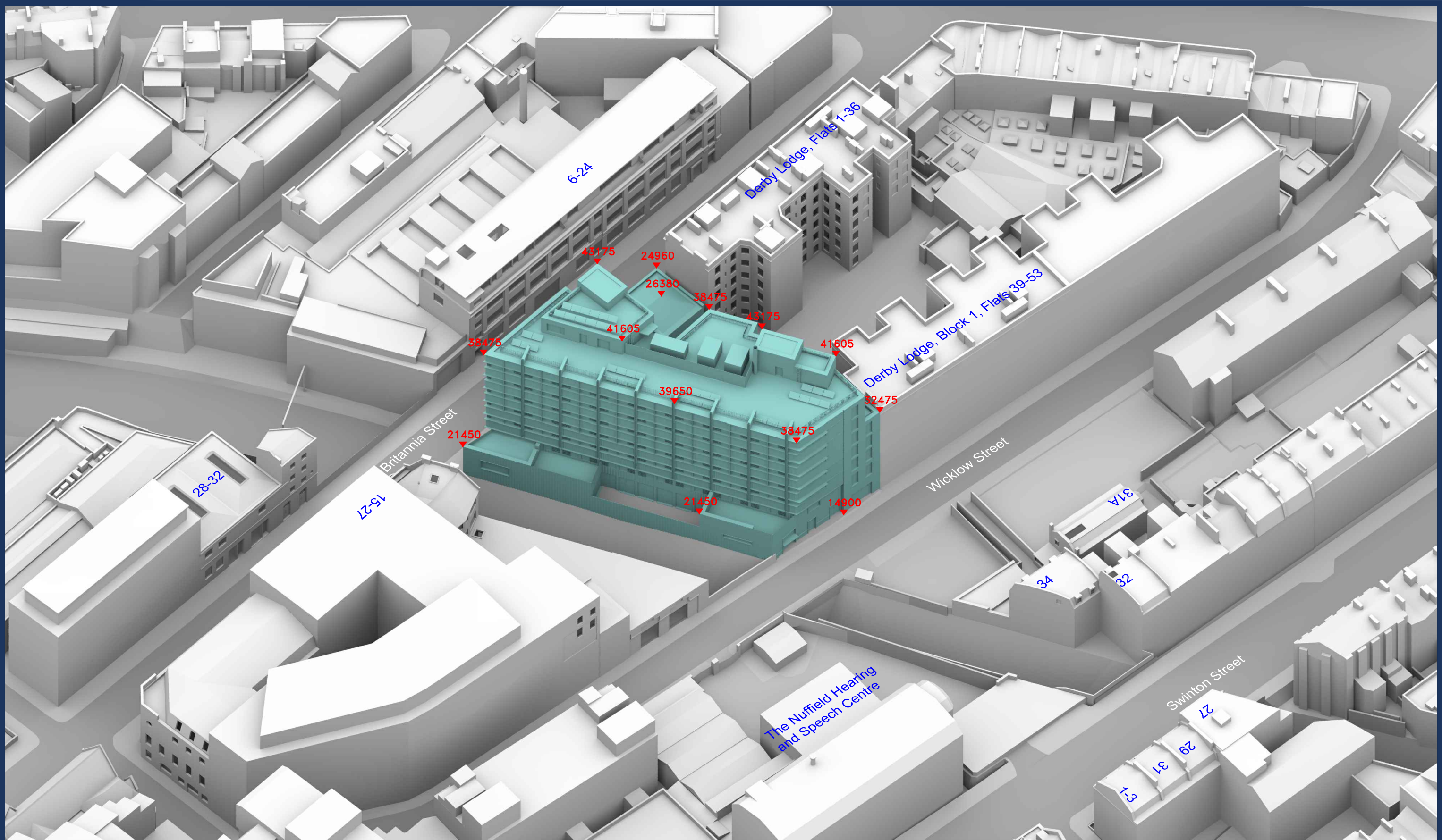
Dwg No:

P3376/37

Rel:

12





Sources: Plowman Craven
Survey Info (received 14/09/23)
F48542-001-PCL-RM-ZZ-M3-Y-00001-S3-P01.dwg

Sheppard Robson
Proposed Info (received 02/01/25)
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6910-SRA-ZZ-ZZ-M3-A-00003.rvt

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Britain from Above - Britannia Street 1951 - 2.png

Consented Scheme info (planning application approved 21/03/07)
Drawing (1).PDF

Key:

Existing Buildings

Proposed Scheme

All Heights in mm AOD

Scheme Confirmed: --

Date: --

Project: Britannia Street Car Park
Kings Cross
London

Drawn By: DK

Scale: NS @ A3

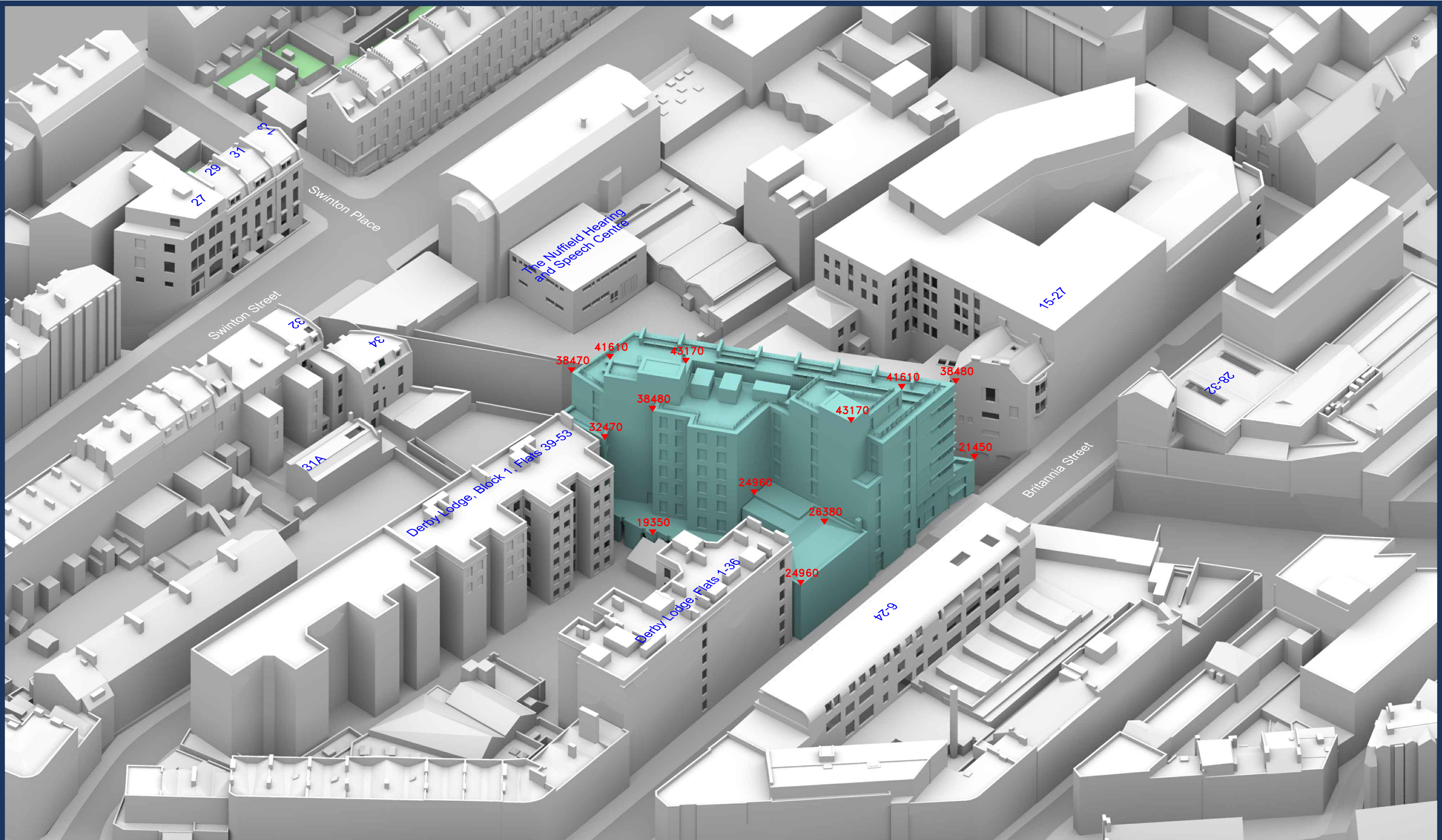
Date: Jan 25

Title: 3D View
Proposed Scheme 02/01/25

Dwg No: P3376/38

Rel: 12





Sources: Plowman Craven
Survey Info (received 14/09/23)
F48542-001-PCL-RM-ZZ-M3-Y-00001-S3-P01.dwg

Sheppard Robson
Proposed Info (received 02/01/25)
6910-SRA-ZZ-ZZ-M3-A-00001.rvt
6910-SRA-ZZ-ZZ-M3-A-00002.rvt
6910-SRA-ZZ-ZZ-M3-A-00003.rvt

Historic Existing info (received 05/09/24)
Britain from Above - Britannia Street 1951.png
Britain from Above - Britannia Street 1951 - 2.png

Consented Scheme info (planning application approved 21/03/07)
Drawing (1).PDF

Key:

Existing Buildings

Proposed Scheme

All Heights in mm AOD

Scheme Confirmed:

--

Date:

--

Project:

Britannia Street Car Park
Kings Cross
London

Drawn By:

DK

Scale:

NS @ A3

Date:

Jan 25

Title:

3D View
Proposed Scheme 02/01/25

Dwg No:

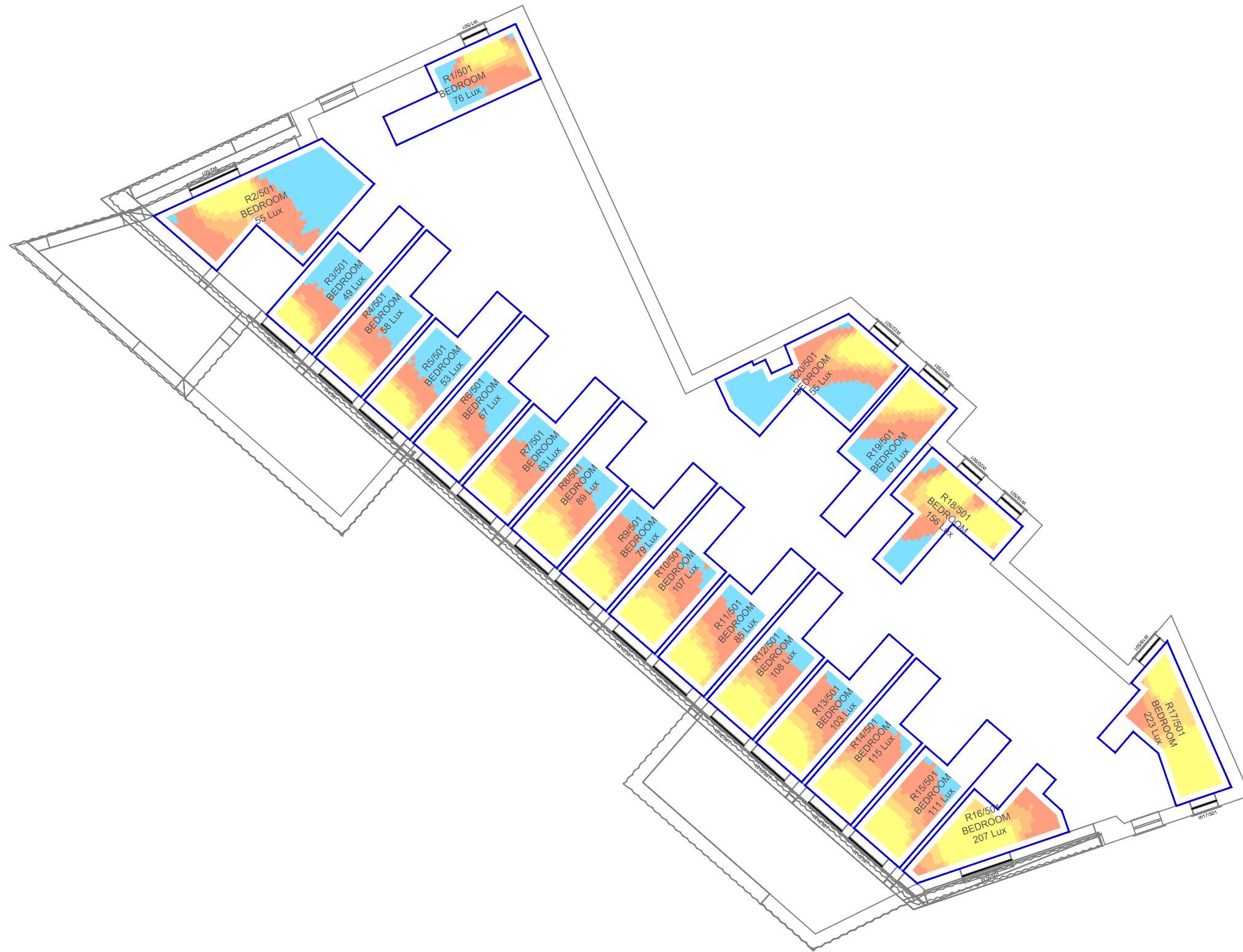
P3376/39

Rel:

12

Appendix 2: Technical Analysis Drawings and Results – Daylight & Sunlight

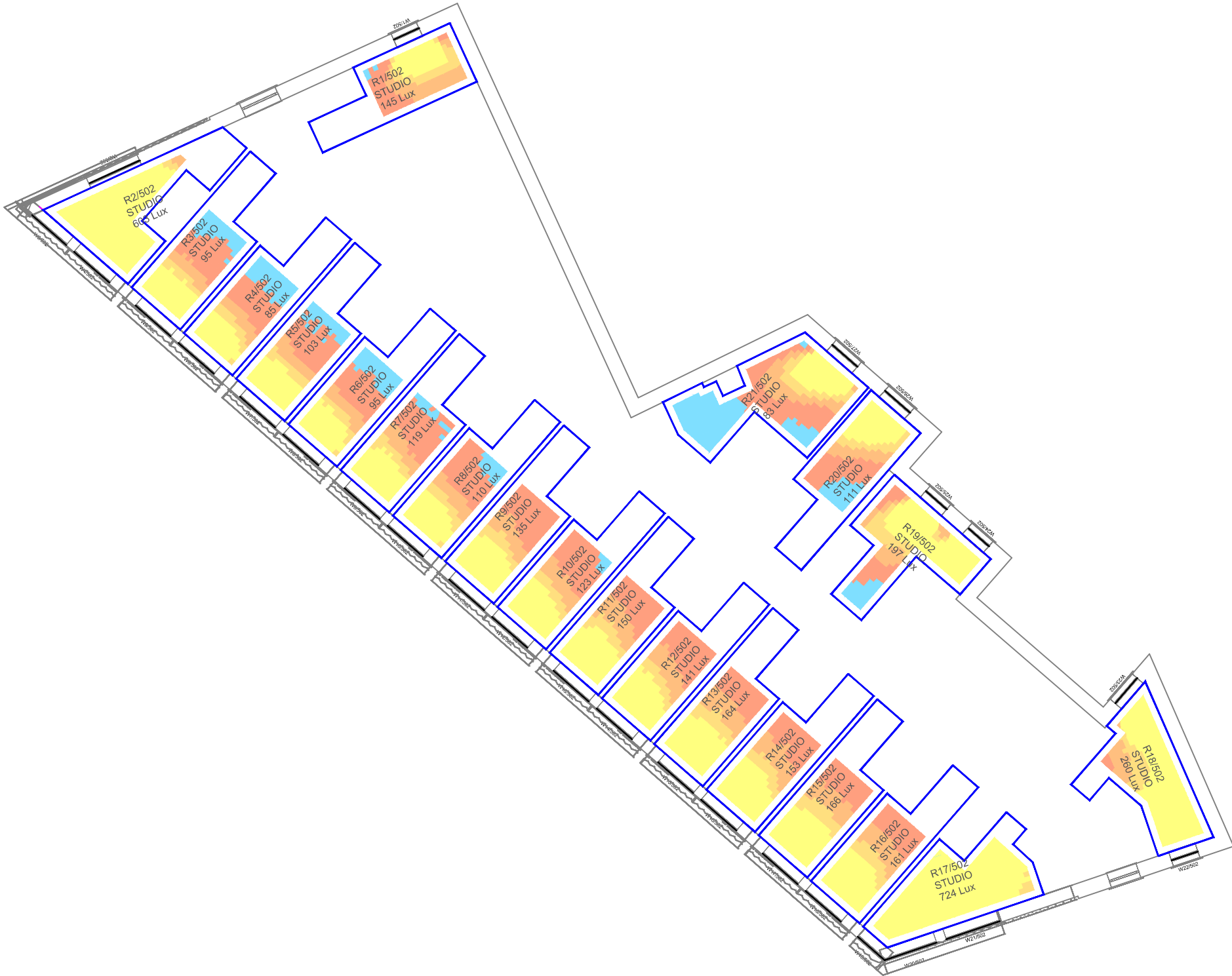




First Floor

<div>Sources:</div> <div>Plowman Craven Survey Info (received 14/09/23) F48542-001-PCL-RM-ZZ-M3-Y-00001-S3-P01.dwg</div> <div>Sheppard Robson Proposed Info (received 02/01/25) 6910-SRA-ZZ-ZZ-M3-A-00001.rvt 6910-SRA-ZZ-ZZ-M3-A-00002.rvt 6910-SRA-ZZ-ZZ-M3-A-00003.rvt</div> <div>Historic Existing info (received 05/09/24) Britain from Above - Britannia Street 1951.png Britain from Above - Britannia Street 1951 - 2.png</div> <div>Consented Scheme info (planning application approved 21/03/07) Drawing (1).PDF</div>	<div>Key: Daylight Illuminance (achieved for 50% of daylight hours)</div> <div><div><div><50 Lux</div><div>>50 Lux</div><div>>100 Lux</div><div>>150 Lux</div><div>>200 Lux</div></div><div>Median Illuminance (Lux) Levels shown for each room. Recommended Targets: Bedroom 100 Lux Living Room 150 Lux Kitchen 200 Lux Studio 150 Lux</div></div>		<div>Project: Britannia Street Car Park Kings Cross London</div>		<div>Title: Climate Based Daylight Modelling (CBDM) Assessment Median Illuminance (Lux) Levels Proposed Scheme 02/01/24</div>	
	<div>Scheme Confirmed: --</div>	<div>Date: --</div>	<div>Drawn By: DK</div>	<div>Scale: 1:200 @ A3</div>	<div>Date: Jan 25</div>	<div>Dwg No: P3859/CBDM/03</div>





Second Floor

Sources: Plowman Craven
Survey Info (received 14/09/23)
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Sheppard Robson
Proposed Info (received 02/01/25)
6910-SRA-ZZ-ZZ-M3-A-00001.rvt
6910-SRA-ZZ-ZZ-M3-A-00002.rvt
6910-SRA-ZZ-ZZ-M3-A-00003.rvt

Historic Existing info (received 05/09/24)
Britain from Above - Britannia Street 1951.png
Britain from Above - Britannia Street 1951 - 2.png

Consented Scheme info (planning application approved 21/03/07)
Drawing (1).PDF

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

<50 Lux

>50 Lux

>100 Lux

>150 Lux

>200 Lux

Median Illuminance (Lux) Levels
shown for each room.

Recommended Targets:
Bedroom 100 Lux
Living Room 150 Lux
Kitchen 200 Lux

Scheme Confirmed: --

Date: --

Project: Britannia Street Car Park
Kings Cross
London

Drawn By: DK

Scale: 1:200 @ A3

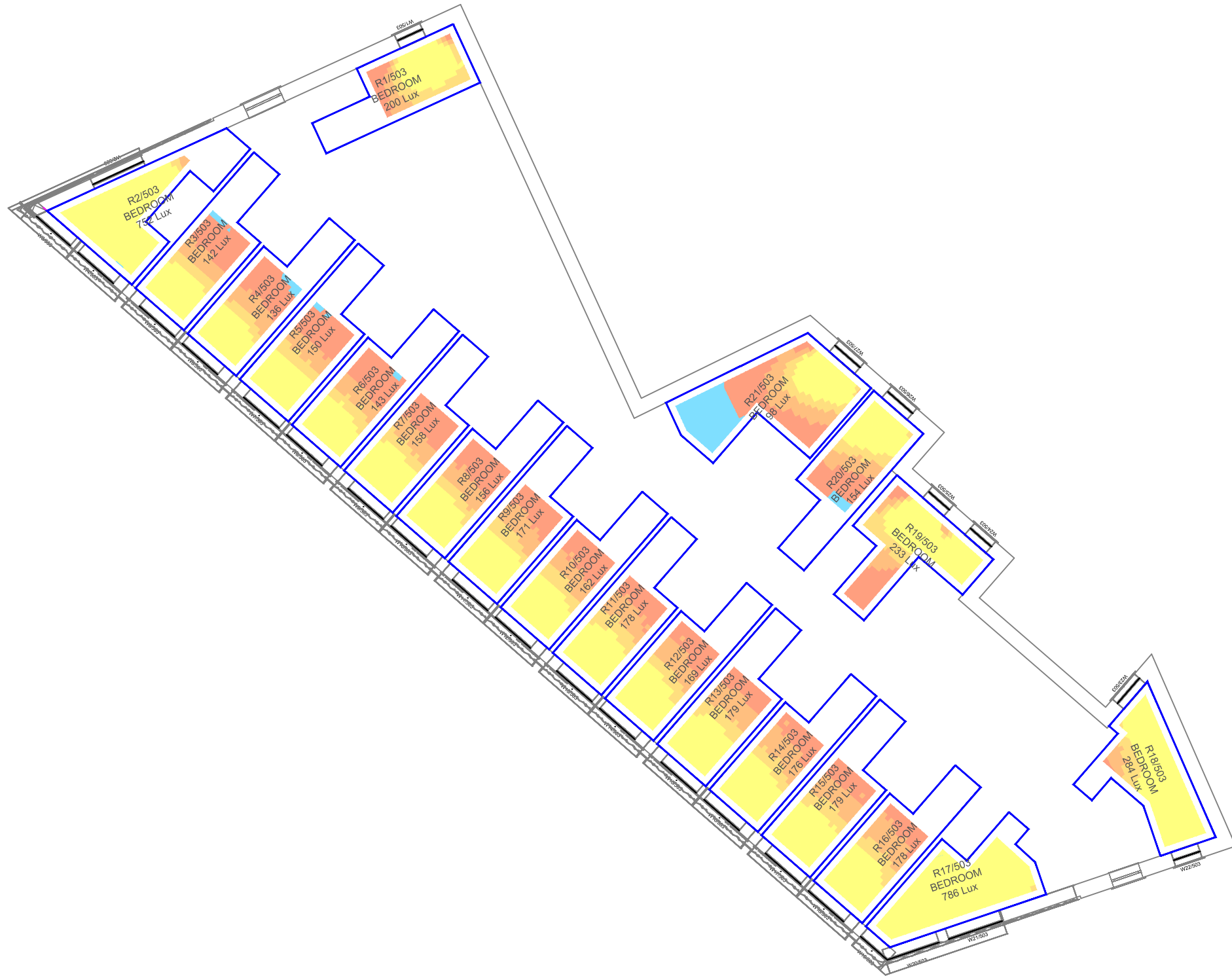
Date: Jan 25

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels
Proposed Scheme 02/01/24

Dwg No: **P3859/CBDM/04**

Rel: **12**

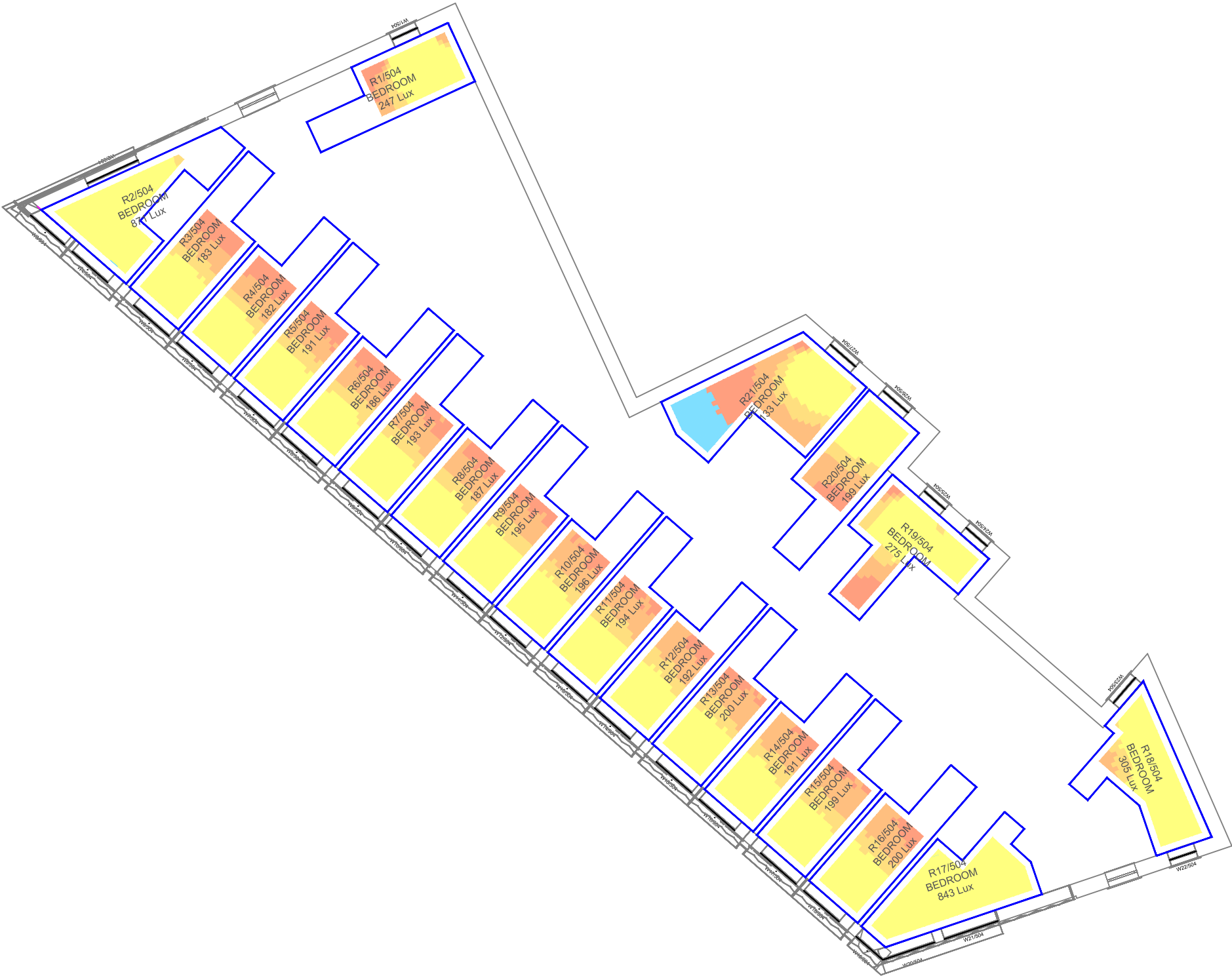




Third Floor

<div>Sources:</div> <div>Plowman Craven Survey Info (received 14/09/23) F48542-001-PCL-RM-ZZ-M3-Y-00001-S3-P01.dwg</div> <div>Sheppard Robson Proposed Info (received 02/01/25) 6910-SRA-ZZ-ZZ-M3-A-00001.rvt 6910-SRA-ZZ-ZZ-M3-A-00002.rvt 6910-SRA-ZZ-ZZ-M3-A-00003.rvt</div> <div>Historic Existing info (received 05/09/24) Britain from Above - Britannia Street 1951.png Britain from Above - Britannia Street 1951 - 2.png</div> <div>Consented Scheme info (planning application approved 21/03/07) Drawing (1).PDF</div>	<div>Key: Daylight Illuminance (achieved for 50% of daylight hours)</div> <div><div><div><50 Lux</div><div>>50 Lux</div><div>>100 Lux</div><div>>150 Lux</div><div>>200 Lux</div></div><div>Median Illuminance (Lux) Levels shown for each room. Recommended Targets: Bedroom 100 Lux Living Room 150 Lux Kitchen 200 Lux Studio 150 Lux</div></div>		<div>Project: Britannia Street Car Park Kings Cross London</div>		<div>Title: Climate Based Daylight Modelling (CBDM) Assessment Median Illuminance (Lux) Levels Proposed Scheme 02/01/24</div>	
	<div>Scheme Confirmed: --</div>	<div>Date: --</div>	<div>Drawn By: DK</div>	<div>Scale: 1:200 @ A3</div>	<div>Date: Jan 25</div>	<div>Dwg No: P3859/CBDM/05</div>

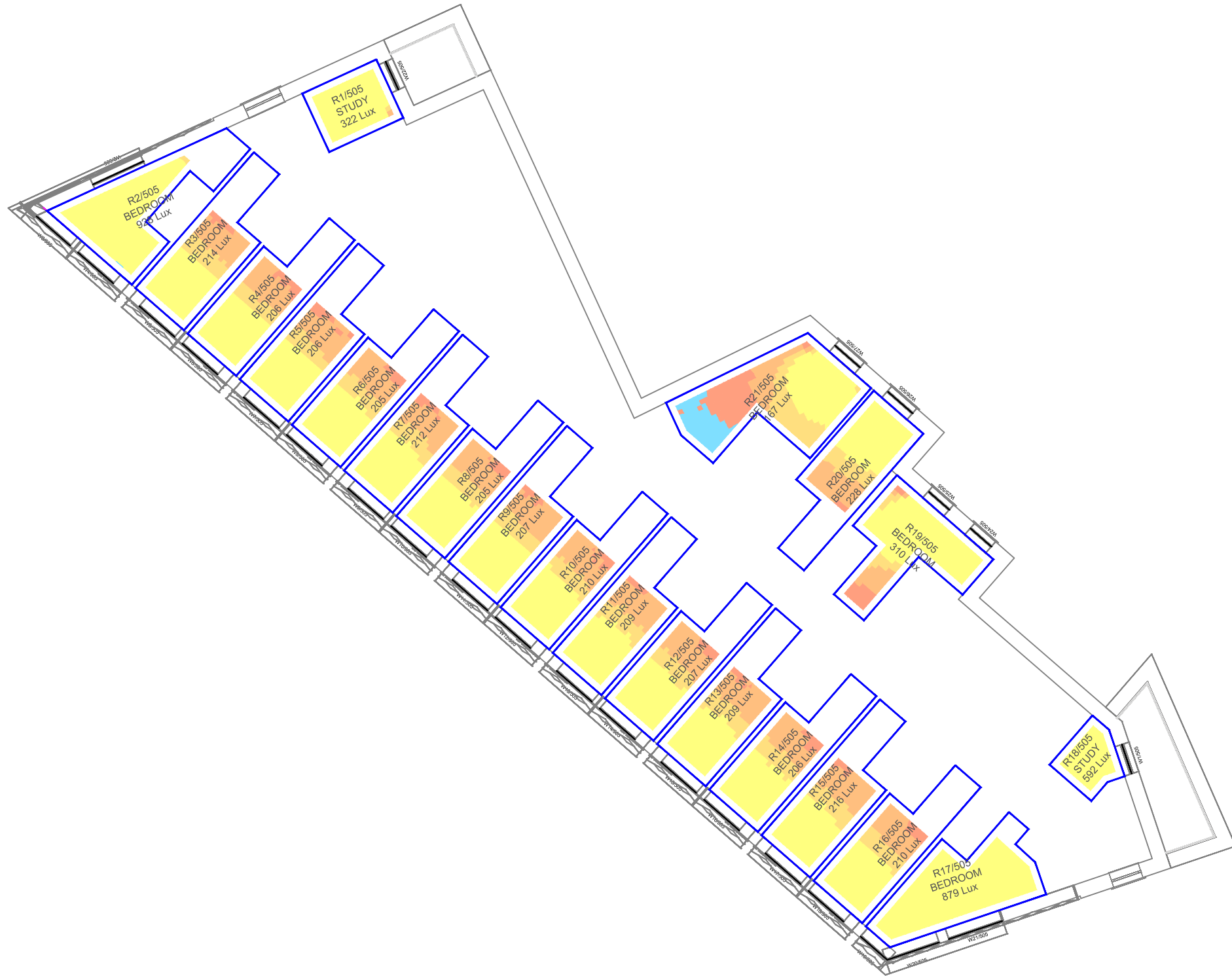




Fourth Floor

<div>Sources:</div> <div>Plowman Craven Survey Info (received 14/09/23) F48542-001-PCL-RM-ZZ-M3-Y-00001-S3-P01.dwg</div> <div>Sheppard Robson Proposed Info (received 02/01/25) 6910-SRA-ZZ-ZZ-M3-A-00001.rvt 6910-SRA-ZZ-ZZ-M3-A-00002.rvt 6910-SRA-ZZ-ZZ-M3-A-00003.rvt</div> <div>Historic Existing info (received 05/09/24) Britain from Above - Britannia Street 1951.png Britain from Above - Britannia Street 1951 - 2.png</div> <div>Consented Scheme info (planning application approved 21/03/07) Drawing (1).PDF</div>	<div>Key: Daylight Illuminance (achieved for 50% of daylight hours)</div> <div><div><div><50 Lux</div><div>>50 Lux</div><div>>100 Lux</div><div>>150 Lux</div><div>>200 Lux</div></div><div>Median Illuminance (Lux) Levels shown for each room. Recommended Targets: Bedroom 100 Lux Living Room 150 Lux Kitchen 200 Lux Studio 150 Lux</div></div>		<div>Project: Britannia Street Car Park Kings Cross London</div>		<div>Title: Climate Based Daylight Modelling (CBDM) Assessment Median Illuminance (Lux) Levels Proposed Scheme 02/01/24</div>	
	<div>Scheme Confirmed:</div> <div>--</div>	<div>Date:</div> <div>--</div>	<div>Drawn By:</div> <div>DK</div>	<div>Scale:</div> <div>1:200 @ A3</div>	<div>Date:</div> <div>Jan 25</div>	<div>Dwg No:</div> <div>P3859/CBDM/06</div>

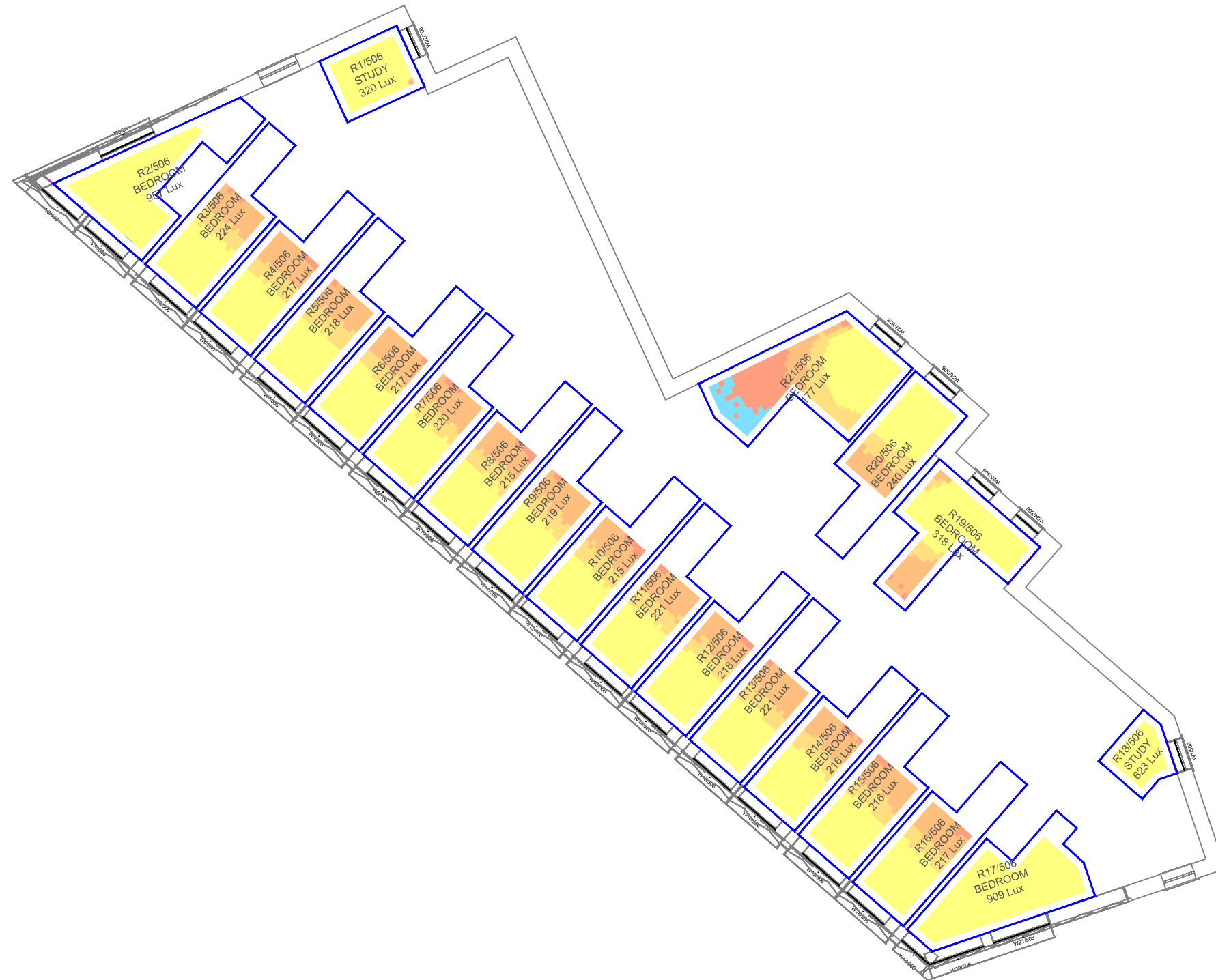




Fifth Floor

<div>Sources:</div> <div>Plowman Craven Survey Info (received 14/09/23) F48542-001-PCL-RM-ZZ-M3-Y-00001-S3-P01.dwg</div> <div>Sheppard Robson Proposed Info (received 02/01/25) 6910-SRA-ZZ-ZZ-M3-A-00001.rvt 6910-SRA-ZZ-ZZ-M3-A-00002.rvt 6910-SRA-ZZ-ZZ-M3-A-00003.rvt</div> <div>Historic Existing info (received 05/09/24) Britain from Above - Britannia Street 1951.png Britain from Above - Britannia Street 1951 - 2.png</div> <div>Consented Scheme info (planning application approved 21/03/07) Drawing (1).PDF</div>	<div>Key: Daylight Illuminance (achieved for 50% of daylight hours)</div> <div><div><div><50 Lux</div><div>>50 Lux</div><div>>100 Lux</div><div>>150 Lux</div><div>>200 Lux</div></div><div>Median Illuminance (Lux) Levels shown for each room. Recommended Targets: Bedroom 100 Lux Living Room 150 Lux Kitchen 200 Lux Studio 150 Lux</div></div>		<div>Project: Britannia Street Car Park Kings Cross London</div>		<div>Title: Climate Based Daylight Modelling (CBDM) Assessment Median Illuminance (Lux) Levels Proposed Scheme 02/01/24</div>	
	<div>Scheme Confirmed:</div> <div>--</div>	<div>Date:</div> <div>--</div>	<div>Drawn By:</div> <div>DK</div>	<div>Scale:</div> <div>1:200 @ A3</div>	<div>Date:</div> <div>Jan 25</div>	<div>Dwg No:</div> <div>P3859/CBDM/07</div>





Sixth Floor

Sources: Plowman Craven
Survey Info (received 14/09/23)
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Proposed Info (received 02/01/25)
6910-SRA-ZZ-ZZ-M3-A-00001.rvt
6910-SRA-ZZ-ZZ-M3-A-00002.rvt
6910-SRA-ZZ-ZZ-M3-A-00003.rvt

Historic Existing info (received 05/09/24)
Britain from Above - Britannia Street 1951.png
Britain from Above - Britannia Street 1951 - 2.png

Consented Scheme info (planning application approved 21/03/07)
Drawing (1).PDF

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

<50 Lux

>50 Lux

>100 Lux

>150 Lux

>200 Lux

Median Illuminance (Lux) Levels
shown for each room.

Recommended Targets:

Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Scheme Confirmed: --

Date: --

Project: Britannia Street Car Park
Kings Cross
London

Drawn By: DK

Scale: 1:200 @ A3

Date: Jan 25

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels
Proposed Scheme 02/01/24

Dwg No: **P3859/CBDM/08**

Rel: **13**





SUNLIGHT EXPOSURE ANALYSIS

One Westmoreland, Bromley
Proposed Scheme 02/01/25

SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)
Proposed Scheme	F1/501	R1/501	BEDROOM			21-Mar	0.0
				W1/501	Northerly	21-Mar	0.0
	F10/501	R10/501	BEDROOM			11-Feb	4.1
				W10/501	Southerly	11-Feb	4.1
	F11/501	R11/501	BEDROOM			21-Mar	2.7
				W11/501	Southerly	21-Mar	2.7
	F12/501	R12/501	BEDROOM			23-Feb	4.4
				W12/501	Southerly	23-Feb	4.4
	F13/501	R13/501	BEDROOM			05-Mar	3.1
				W13/501	Southerly	05-Mar	3.1
	F14/501	R14/501	BEDROOM			16-Feb	4.5
				W14/501	Southerly	16-Feb	4.5
	F15/501	R15/501	BEDROOM			14-Mar	3.6
				W15/501	Southerly	14-Mar	3.6
	F16/501	R16/501	BEDROOM			15-Mar	7.7
				W16/501	Southerly	15-Mar	7.7
	F17/501	R17/501	BEDROOM			28-Feb	5.6
				W18/501	Westerly	28-Feb	0.0
				W17/501	Southerly	28-Feb	5.6
	F18/501	R18/501	BEDROOM			21-Mar	0.0
				W20/501	Northerly	21-Mar	0.0
				W19/501	Northerly	21-Mar	0.0



SUNLIGHT EXPOSURE ANALYSIS

One Westmoreland, Bromley
Proposed Scheme 02/01/25

SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)	
	F19/501	R19/501	BEDROOM	W21/501	Northerly	21-Mar 21-Mar	0.0 0.0	
	F2/501	R2/501	BEDROOM	W2/501	Northerly	21-Mar 21-Mar	0.0 0.0	
	F20/501	R20/501	BEDROOM	W22/501	Northerly	21-Mar 21-Mar	0.0 0.0	
	F3/501	R3/501	BEDROOM	W3/501	Southerly	21-Mar 21-Mar	2.3 2.3	
	F4/501	R4/501	BEDROOM	W4/501	Southerly	17-Mar 17-Mar	2.8 2.8	
	F5/501	R5/501	BEDROOM	W5/501	Southerly	21-Mar 21-Mar	2.6 2.6	
	F6/501	R6/501	BEDROOM	W6/501	Southerly	18-Mar 18-Mar	2.9 2.9	
	F7/501	R7/501	BEDROOM	W7/501	Southerly	21-Mar 21-Mar	2.8 2.8	
	F8/501	R8/501	BEDROOM	W8/501	Southerly	04-Feb 04-Feb	3.4 3.4	
	F9/501	R9/501	BEDROOM	W9/501	Southerly	21-Mar 21-Mar	2.5 2.5	
	F1/502	R1/502	BEDROOM	W1/502	Northerly	21-Mar 21-Mar	0.0 0.0	



SUNLIGHT EXPOSURE ANALYSIS

One Westmoreland, Bromley
Proposed Scheme 02/01/25

SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)	
	F10/502	R10/502	BEDROOM	W12/502	Southerly	27-Feb 27-Feb	2.2 2.2	
	F11/502	R11/502	BEDROOM	W13/502	Southerly	01-Feb 01-Feb	3.7 3.7	
	F12/502	R12/502	BEDROOM	W14/502	Southerly	06-Feb 06-Feb	2.5 2.5	
	F13/502	R13/502	BEDROOM	W15/502	Southerly	05-Feb 05-Feb	3.7 3.7	
	F14/502	R14/502	BEDROOM	W16/502	Southerly	24-Feb 24-Feb	3.0 3.0	
	F15/502	R15/502	BEDROOM	W17/502	Southerly	01-Feb 01-Feb	3.8 3.8	
	F16/502	R16/502	BEDROOM	W18/502	Southerly	24-Feb 24-Feb	3.1 3.1	
	F17/502	R17/502	BEDROOM	W21/502 W20/502 W19/502	Southerly Southerly Southerly	18-Feb 18-Feb 18-Feb 18-Feb	7.8 4.8 5.6 3.2	
	F18/502	R18/502	BEDROOM	W23/502 W22/502	Westerly Southerly	23-Feb 23-Feb 23-Feb	5.7 0.0 5.7	
	F19/502	R19/502	BEDROOM	W25/502 W24/502	Northerly Northerly	21-Mar 21-Mar 21-Mar	0.0 0.0 0.0	



SUNLIGHT EXPOSURE ANALYSIS

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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)
	F2/502	R2/502	BEDROOM	W4/502	Southerly	01-Feb	2.4
				W2/502	Northerly	01-Feb	0.8
				W3/502	Southerly	01-Feb	0.0
						01-Feb	2.3
	F20/502	R20/502	BEDROOM	W26/502	Northerly	21-Mar	0.0
						21-Mar	0.0
	F21/502	R21/502	BEDROOM	W27/502	Northerly	21-Mar	0.0
						21-Mar	0.0
	F3/502	R3/502	BEDROOM	W5/502	Southerly	01-Feb	2.5
						01-Feb	2.5
	F4/502	R4/502	BEDROOM	W6/502	Southerly	24-Feb	2.1
						24-Feb	2.1
	F5/502	R5/502	BEDROOM	W7/502	Southerly	01-Feb	2.3
						01-Feb	2.3
	F6/502	R6/502	BEDROOM	W8/502	Southerly	05-Mar	2.1
						05-Mar	2.1
	F7/502	R7/502	BEDROOM	W9/502	Southerly	04-Feb	2.5
						04-Feb	2.5
	F8/502	R8/502	BEDROOM	W10/502	Southerly	11-Mar	2.1
						11-Mar	2.1
	F9/502	R9/502	BEDROOM	W11/502	Southerly	01-Feb	2.9
						01-Feb	2.9
	F1/503	R1/503	BEDROOM			21-Mar	0.0



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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)	
				W1/503	Northerly	21-Mar	0.0	
	F10/503	R10/503	BEDROOM	W12/503	Southerly	08-Mar 08-Mar	2.8 2.8	
	F11/503	R11/503	BEDROOM	W13/503	Southerly	01-Feb 01-Feb	3.7 3.7	
	F12/503	R12/503	BEDROOM	W14/503	Southerly	24-Feb 24-Feb	2.9 2.9	
	F13/503	R13/503	BEDROOM	W15/503	Southerly	02-Feb 02-Feb	3.9 3.9	
	F14/503	R14/503	BEDROOM	W16/503	Southerly	20-Feb 20-Feb	3.2 3.2	
	F15/503	R15/503	BEDROOM	W17/503	Southerly	01-Feb 01-Feb	3.9 3.9	
	F16/503	R16/503	BEDROOM	W18/503	Southerly	24-Feb 24-Feb	3.3 3.3	
	F17/503	R17/503	BEDROOM	W21/503 W20/503 W19/503	Southerly Southerly Southerly	19-Feb 19-Feb 19-Feb	8.4 5.0 5.6 3.4	
	F18/503	R18/503	BEDROOM	W23/503 W22/503	Westerly Southerly	18-Feb 18-Feb 18-Feb	5.8 0.0 5.8	
	F19/503	R19/503	BEDROOM	W25/503	Northerly	21-Mar 21-Mar	0.0 0.0	



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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)	
				W24/503	Northerly	21-Mar	0.0	
	F2/503	R2/503	BEDROOM			27-Feb	3.2	
				W4/503	Southerly	27-Feb	2.5	
				W2/503	Northerly	27-Feb	0.0	
				W3/503	Southerly	27-Feb	3.1	
	F20/503	R20/503	BEDROOM			21-Mar	0.0	
				W26/503	Northerly	21-Mar	0.0	
	F21/503	R21/503	BEDROOM			21-Mar	0.0	
				W27/503	Northerly	21-Mar	0.0	
	F3/503	R3/503	BEDROOM			04-Feb	3.3	
				W5/503	Southerly	04-Feb	3.3	
	F4/503	R4/503	BEDROOM			27-Feb	2.8	
				W6/503	Southerly	27-Feb	2.8	
	F5/503	R5/503	BEDROOM			01-Feb	3.2	
				W7/503	Southerly	01-Feb	3.2	
	F6/503	R6/503	BEDROOM			24-Feb	2.9	
				W8/503	Southerly	24-Feb	2.9	
	F7/503	R7/503	BEDROOM			02-Feb	3.3	
				W9/503	Southerly	02-Feb	3.3	
	F8/503	R8/503	BEDROOM			28-Feb	2.9	
				W10/503	Southerly	28-Feb	2.9	
	F9/503	R9/503	BEDROOM			01-Feb	3.4	
				W11/503	Southerly	01-Feb	3.4	



SUNLIGHT EXPOSURE ANALYSIS

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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)	
	F1/504	R1/504	BEDROOM	W1/504	Northerly	21-Mar 21-Mar	0.0 0.0	
	F10/504	R10/504	BEDROOM	W12/504	Southerly	02-Mar 02-Mar	3.6 3.6	
	F11/504	R11/504	BEDROOM	W13/504	Southerly	05-Feb 05-Feb	3.9 3.9	
	F12/504	R12/504	BEDROOM	W14/504	Southerly	11-Mar 11-Mar	3.4 3.4	
	F13/504	R13/504	BEDROOM	W15/504	Southerly	01-Feb 01-Feb	4.0 4.0	
	F14/504	R14/504	BEDROOM	W16/504	Southerly	25-Feb 25-Feb	3.4 3.4	
	F15/504	R15/504	BEDROOM	W17/504	Southerly	02-Feb 02-Feb	4.1 4.1	
	F16/504	R16/504	BEDROOM	W18/504	Southerly	02-Mar 02-Mar	3.4 3.4	
	F17/504	R17/504	BEDROOM	W21/504 W20/504 W19/504	Southerly Southerly Southerly	18-Feb 18-Feb 18-Feb	9.0 5.5 6.3 3.7	
	F18/504	R18/504	BEDROOM	W23/504 W22/504	Westerly Southerly	07-Feb 07-Feb 07-Feb	6.0 0.0 6.0	
	F19/504							



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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)
		R19/504	BEDROOM			21-Mar	0.0
				W25/504	Northerly	21-Mar	0.0
				W24/504	Northerly	21-Mar	0.0
	F2/504						
		R2/504	BEDROOM			05-Mar	4.0
				W4/504	Southerly	05-Mar	3.7
				W2/504	Northerly	05-Mar	0.0
				W3/504	Southerly	05-Mar	3.8
	F20/504						
		R20/504	BEDROOM			21-Mar	0.0
				W26/504	Northerly	21-Mar	0.0
	F21/504						
		R21/504	BEDROOM			21-Mar	0.0
				W27/504	Northerly	21-Mar	0.0
	F3/504						
		R3/504	BEDROOM			04-Feb	4.1
				W5/504	Southerly	04-Feb	4.1
	F4/504						
		R4/504	BEDROOM			25-Feb	3.5
				W6/504	Southerly	25-Feb	3.5
	F5/504						
		R5/504	BEDROOM			08-Feb	4.0
				W7/504	Southerly	08-Feb	4.0
	F6/504						
		R6/504	BEDROOM			24-Feb	3.6
				W8/504	Southerly	24-Feb	3.6
	F7/504						
		R7/504	BEDROOM			17-Feb	3.8
				W9/504	Southerly	17-Feb	3.8
	F8/504						
		R8/504	BEDROOM			24-Feb	3.7
				W10/504	Southerly	24-Feb	3.7
	F9/504						
		R9/504	BEDROOM			01-Feb	3.9



SUNLIGHT EXPOSURE ANALYSIS

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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)	
				W11/504	Southerly	01-Feb	3.9	
	F10/505	R10/505	BEDROOM	W12/505	Southerly	28-Feb	4.2	
				W12/505	Southerly	28-Feb	4.2	
	F11/505	R11/505	BEDROOM	W13/505	Southerly	01-Feb	4.3	
				W13/505	Southerly	01-Feb	4.3	
	F12/505	R12/505	BEDROOM	W14/505	Southerly	05-Mar	4.1	
				W14/505	Southerly	05-Mar	4.1	
	F13/505	R13/505	BEDROOM	W15/505	Southerly	07-Feb	4.2	
				W15/505	Southerly	07-Feb	4.2	
	F14/505	R14/505	BEDROOM	W16/505	Southerly	11-Mar	3.9	
				W16/505	Southerly	11-Mar	3.9	
	F15/505	R15/505	BEDROOM	W17/505	Southerly	01-Feb	4.3	
				W17/505	Southerly	01-Feb	4.3	
	F16/505	R16/505	BEDROOM	W18/505	Southerly	02-Mar	3.8	
				W18/505	Southerly	02-Mar	3.8	
	F17/505	R17/505	BEDROOM	W21/505	Southerly	18-Feb	9.3	
				W20/505	Southerly	18-Feb	5.6	
				W20/505	Southerly	18-Feb	6.3	
				W19/505	Southerly	18-Feb	3.8	
	F18/505	R18/505	STUDY	W1/505	Westerly	21-Mar	1.4	
				W1/505	Westerly	21-Mar	1.4	
	F19/505	R19/505	BEDROOM	W25/505	Northerly	21-Mar	0.0	
				W25/505	Northerly	21-Mar	0.0	
				W24/505	Northerly	21-Mar	0.0	



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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)
F2/505							
	R2/505	BEDROOM				02-Feb	4.9
				W4/505	Southerly	02-Feb	3.3
				W2/505	Northerly	02-Feb	0.0
				W3/505	Southerly	02-Feb	4.9
F20/505							
	R20/505	BEDROOM				21-Mar	0.0
				W26/505	Northerly	21-Mar	0.0
F21/505							
	R21/505	BEDROOM				21-Mar	0.0
				W27/505	Northerly	21-Mar	0.0
F22/505							
	R1/505	STUDY				21-Mar	0.0
				W22/505	Westerly	21-Mar	0.0
F3/505							
	R3/505	BEDROOM				02-Feb	4.9
				W5/505	Southerly	02-Feb	4.9
F4/505							
	R4/505	BEDROOM				24-Feb	4.3
				W6/505	Southerly	24-Feb	4.3
F5/505							
	R5/505	BEDROOM				10-Feb	4.7
				W7/505	Southerly	10-Feb	4.7
F6/505							
	R6/505	BEDROOM				24-Feb	4.3
				W8/505	Southerly	24-Feb	4.3
F7/505							
	R7/505	BEDROOM				17-Feb	4.4
				W9/505	Southerly	17-Feb	4.4
F8/505							
	R8/505	BEDROOM				25-Feb	4.3
				W10/505	Southerly	25-Feb	4.3
F9/505							



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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)	
		R9/505	BEDROOM			17-Feb	4.2	
				W11/505	Southerly	17-Feb	4.2	
	F10/506	R10/506	BEDROOM			25-Feb	4.3	
				W12/506	Southerly	25-Feb	4.3	
	F11/506	R11/506	BEDROOM			16-Feb	4.5	
				W13/506	Southerly	16-Feb	4.5	
	F12/506	R12/506	BEDROOM			24-Feb	4.3	
				W14/506	Southerly	24-Feb	4.3	
	F13/506	R13/506	BEDROOM			01-Feb	4.4	
				W15/506	Southerly	01-Feb	4.4	
	F14/506	R14/506	BEDROOM			25-Feb	4.3	
				W16/506	Southerly	25-Feb	4.3	
	F15/506	R15/506	BEDROOM			08-Feb	4.4	
				W17/506	Southerly	08-Feb	4.4	
	F16/506	R16/506	BEDROOM			27-Feb	4.3	
				W18/506	Southerly	27-Feb	4.3	
	F17/506	R17/506	BEDROOM			18-Feb	9.3	
				W21/506	Southerly	18-Feb	5.6	
				W20/506	Southerly	18-Feb	6.3	
				W19/506	Southerly	18-Feb	3.8	
	F18/506	R18/506	STUDY			21-Mar	2.0	
				W1/506	Westerly	21-Mar	2.0	
	F19/506	R19/506	BEDROOM			21-Mar	0.0	
				W25/506	Northerly	21-Mar	0.0	



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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)	
				W24/506	Northerly	21-Mar	0.0	
	F2/506	R2/506	BEDROOM			04-Feb	5.0	
				W4/506	Southerly	04-Feb	3.5	
				W2/506	Northerly	04-Feb	0.0	
				W3/506	Southerly	04-Feb	5.0	
	F20/506	R20/506	BEDROOM			21-Mar	0.0	
				W26/506	Northerly	21-Mar	0.0	
	F21/506	R21/506	BEDROOM			21-Mar	0.0	
				W27/506	Northerly	21-Mar	0.0	
	F22/506	R1/506	STUDY			21-Mar	0.0	
				W22/506	Westerly	21-Mar	0.0	
	F3/506	R3/506	BEDROOM			01-Feb	5.1	
				W5/506	Southerly	01-Feb	5.1	
	F4/506	R4/506	BEDROOM			25-Feb	4.3	
				W6/506	Southerly	25-Feb	4.3	
	F5/506	R5/506	BEDROOM			04-Feb	5.0	
				W7/506	Southerly	04-Feb	5.0	
	F6/506	R6/506	BEDROOM			25-Feb	4.3	
				W8/506	Southerly	25-Feb	4.3	
	F7/506	R7/506	BEDROOM			05-Feb	4.9	
				W9/506	Southerly	05-Feb	4.9	
	F8/506	R8/506	BEDROOM			25-Feb	4.3	
				W10/506	Southerly	25-Feb	4.3	



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SUNLIGHT EXPOSURE

	Unit	Room	Room Use	Window	Orientation	Date	Sunlight Exposure (Hours)
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F9/506

R9/506

BEDROOM

W11/506

Southerly

13-Feb

4.7

13-Feb

4.7

