Sunlight
Assessments UK

Sunlight & Daylight Assessments

Impact Assessment

Site address: 31 Great Central Avenue, HA4 6TT, UK

Impact address: 29 & 33 Great Central Avenue, HA4 6TT, UK

Designer/Architects **manu design limited**

6 November 2025

Technical analysis by Milica Mijajlović

Contents

1. Introduction

1.1 Sunlight Assessments UK have been instructed to assess the daylight and sunlight of the proposed extension on 31 Great Central Avenue, HA4 6TT, UK.

1.2 The report relates to the proposed Scheme presented by manu design limited, and provides detailed technical support regarding the potential impact to the daylight and sunlight of 29 & 33 Great Central Avenue, HA4 6TT, UK.

1.3 The Local Authority will be informed of this by the BRE document entitled 'Site layout planning for daylight and sunlight: a guide to good practice' (BR209 2022). This document is the principal guidance in this area and sets out the methodology for measuring light and recommends what it considers to be permitted or unobtrusive levels of change.

1.4 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 daylight and sunlight will be one of several planning considerations which the local authority will weigh.

Sources of Information

1.5 In the process of compiling this report, the following sources of information have been used:

Ordnance Survey Data

OS Map

Proposed drawings in Appendix 1

2. Methodology

Effect on daylight

Vertical Sky Component (VSC), to surrounding properties.

BRE guidance summary on daylight:

2.2.23 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° to the horizontal, then the diffuse daylighting of the existing building may be adversely affected. This will be the case if either:

- the VSC measured at the centre of an existing main window is less than 27%, and less than 0.80 times its former value.

the area of the working plane in a room which can receive direct skylight is reduced to less than 0.80 times its former value.

Effect on sunlight

Annual probable sunlight hours (APSH), to surrounding properties.

BRE guidance summary on sunlight:

3.2.13 If a living room of an existing dwelling has a main window facing within 90° of due south, and any part of a new development subtends an angle of more than 25° to the horizontal measured from the centre of the window in a vertical section perpendicular to the window, then the sun lighting of the existing dwelling may be adversely affected. This will be the case if the centre of the window:

- values less than 25% of annual probable sunlight hours and less than 0.80 times its former annual value; or less than 5% of annual probable sunlight hours between 21 September and 21 March and less than 0.80 times its former value during that period.
- also has a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

Sun on ground

Sunlight on ground (SOG) to surrounding properties.

BRE guidance summery on gardens and amenity spaces:

3.3.17 It is recommended that for it to appear adequately sunlit throughout the year, at least half of a garden or amenity area should receive at least two hours of sunlight on 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area that can receive two hours of sun on 21 March is less than 0.80 times its former value, then the loss of sunlight is likely to be noticeable. If a detailed calculation cannot be carried out, it is recommended that the centre of the area should receive at least two hours of sunlight on 21 March

3. Standard Survey Limitations

3.1 Although we have undertaken as detailed an inspection as possible, we are required by our professional indemnity insurers to notify you that our report is based upon the Standard Terms and Conditions. Our understanding of the proposed development is informed in the drawings in Appendix 1 and information supplied by manu design limited.

3.2 In addition to our standard limitations, the following limitations and assumptions also apply:

- Best estimates were made in establishing building use (residential or commercial) and room uses; generally, these were made from external observations and recourse to planning records where available.
- Where floor plans of surrounding properties were not available, room depths have been assumed from external observations. Where no indicators of room depth were available a standard of 4m, 6m or 8m depths have been used.

4. The Site

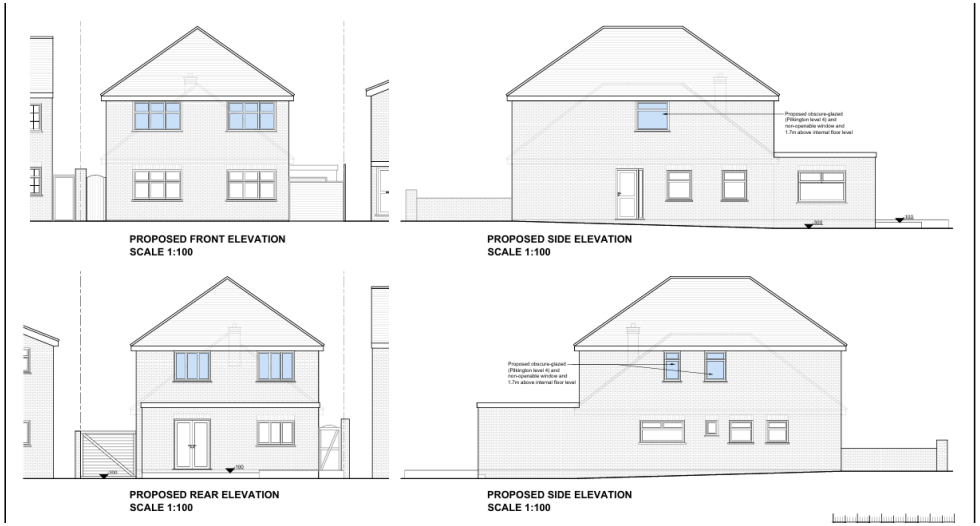
4.1 The site is located at 31 Great Central Avenue, HA4 6TT, UK.

5. The Proposal

PROPOSED DEVELOPMENT

5.1 Our understanding of the proposed new build is illustrated in the drawings, located in Appendix 1.

5.2 manu design limited has provided floorplans and elevations.



6. Impact on the Surrounding Properties

6.1 Due to the proximity to the site, we have assessed the windows and garden of 29 & 33 Great Central Avenue, HA4 6TT, UK.

6.2 These residential properties are located adjacent to the Site.

6.3 The location of these properties is highlighted in the map:

7. Assessment Results

Vertical Sky Component (VSC)

7.1 The results show that the windows and associated room will not experience a noticeable reduction in daylight as defined in the BRE guidance.

Annual probable sunlight hours (APSH)

7.2 The results show that all windows and associated rooms will not experience a noticeable reduction in sunlight as defined in the BRE guidance.

Garden Amenity (SOG)

7.3 The results show that the garden amenity space will not experience a noticeable reduction in sunlight as defined in the BRE guidance.

8. Conclusion

8.1 The daylight and sunlight to the analysed windows and garden space of 29 & 33 Great Central Avenue, HA4 6TT, UK will not experience a noticeable reduction of daylight and sunlight as set out in the BRE guidelines.

8.2 We, therefore, conclude that the effects of the proposed scheme in relation to daylight and sunlight are BRE compliant and we have identified no grounds for rejection of a planning application for this proposal.

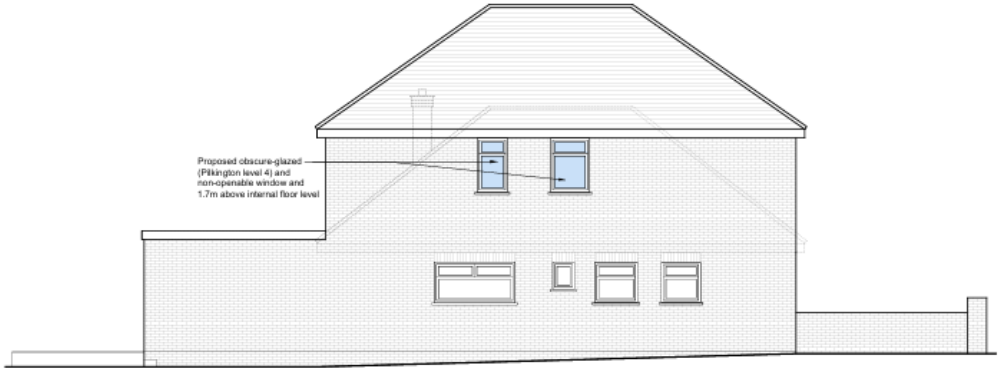
Appendix 1:

Drawings

PROPOSED FRONT ELEVATION
SCALE 1:100

PROPOSED SIDE ELEVATION
SCALE 1:100

PROPOSED REAR ELEVATION
SCALE 1:100



PROPOSED SIDE ELEVATION
SCALE 1:100

DO NOT SCALE OFF THIS DRAWING
ALL DIMENSIONS TO BE CHECKED ON SITE
ANY DISCREPANCIES TO BE REPORTED TO THE MANU DESIGN LIMITED ASAP

ALL STRUCTURAL DETAILS TO ENGINEER'S DETAILS

Rev.	Date	Comment

SCHEME- D

Site Address: 31 Great Central Avenue, Ruislip, HA4 6TT

Project Title: Loft conversion with new side dormers

Drawing Title: Proposed elevations

Date: 25.03.25
Scale: 1:100@A3
Drawn: LV
Rev:
Drawing No: 31GCA/ 102D

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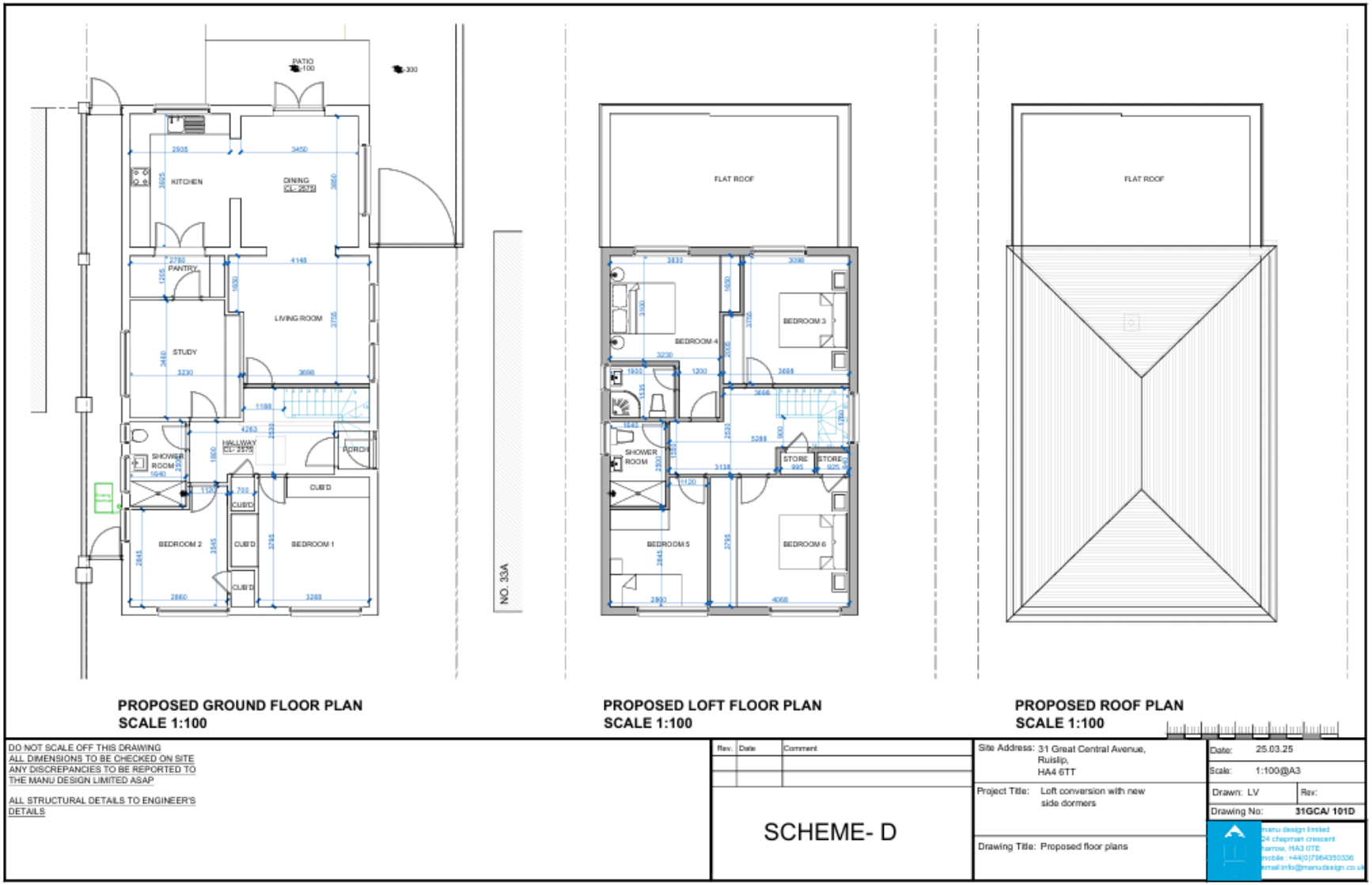

PROPOSED GROUND FLOOR PLAN
SCALE 1:100

PROPOSED LOFT FLOOR PLAN
SCALE 1:100

PROPOSED ROOF PLAN
SCALE 1:100

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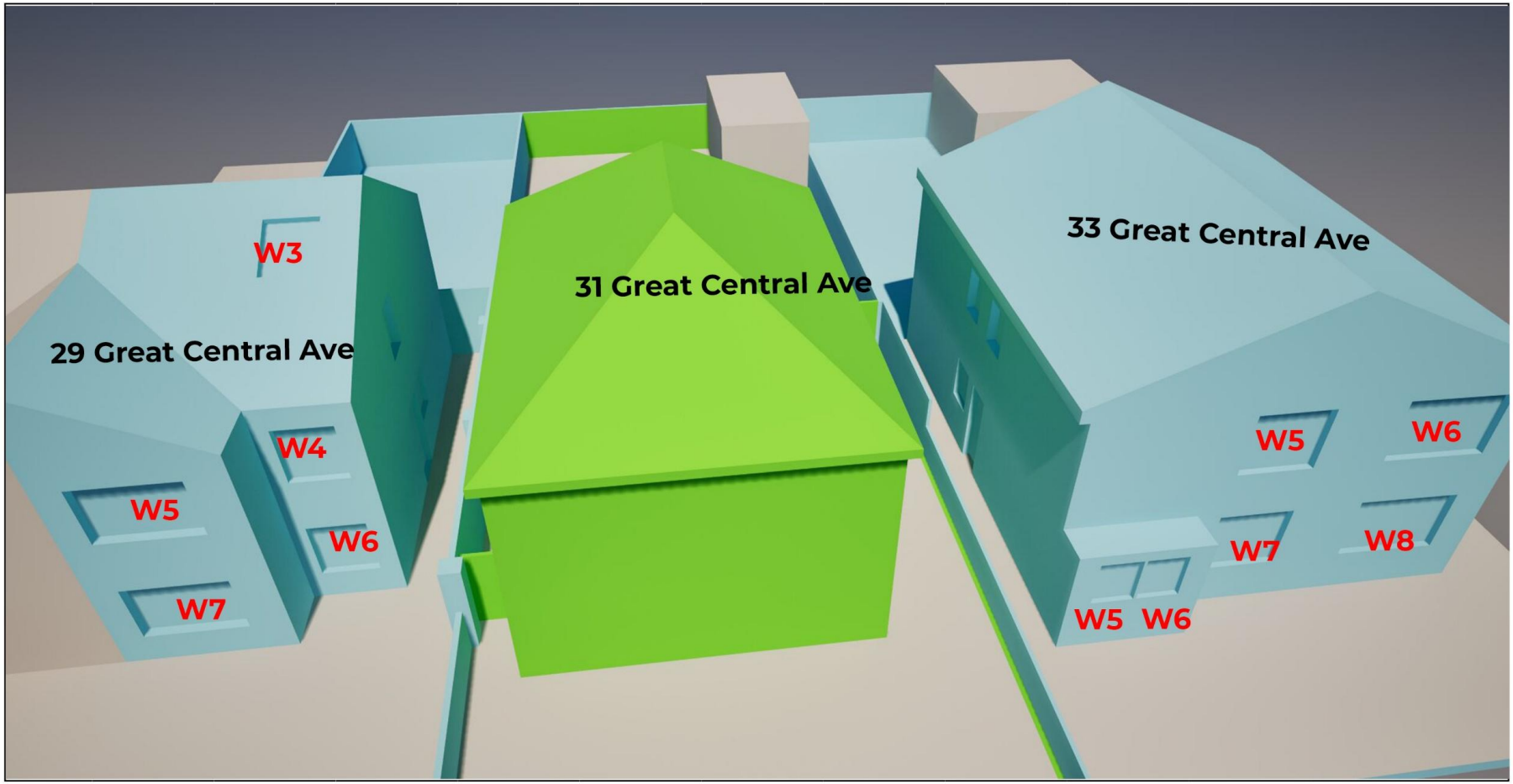
Appendix 2:

Window Maps


33 Great Central Ave
31 Great Central Ave
29 Great Central Ave
W4
non-habitable
W3
non-habitable
W4
non-habitable
W3
non-habitable
W2
W1
W2
W1
W3
non-habitable
W5
non-habitable
W4
non-habitable
W1
W2
W2
W1
W3
W2
W1
Key:
Proposed Massing on Site
Neighbouring Analysed Properties
Surrounding Massing
Scale - NTS
Project 31 Great Central Ave
Client Parimal Valamiya
Address 31 Great Central Ave, HA4 6TT
Drawn manu design limited



Key:
- Proposed Massing on Site
- Neighbouring Analysed Properties
- Surrounding Massing

Scale - NTS

Project	31 Great Central Ave
Client	Parimal Valamiya
Address	31 Great Central Ave, HA4 6TT
Drawn	manu design limited

Appendix 3:

Technical Analysis

Vertical Sky Component (VSC) results

Building Name	Floor Name	Window Name	Window Orientation	VSC Existing	VSC Proposed	Pr/Ex	Meets BRE Criteria
29 Great Central Ave	First	W1	32°N	39.62	39.62	1	YES
29 Great Central Ave	First	W2	32°N	39.62	39.62	1	YES
29 Great Central Ave	First	W3	122°	36.57	25.67	0.7	non-habitable
29 Great Central Ave	First	W4	212°	33.52	32.08	0.96	YES
29 Great Central Ave	First	W5	212°	39.61	39.5	1	YES
29 Great Central Ave	Ground	W1	32°N	37.71	37.71	1	YES
29 Great Central Ave	Ground	W2	32°N	35.74	35.74	1	YES
29 Great Central Ave	Ground	W3	32°N	37.85	37.85	1	YES
29 Great Central Ave	Ground	W4	122°	24.06	11.62	0.48	non-habitable
29 Great Central Ave	Ground	W5	122°	20.19	8.89	0.44	non-habitable
29 Great Central Ave	Ground	W6	212°	29.72	28.23	0.95	YES
29 Great Central Ave	Ground	W7	212°	39.49	39.33	1	YES
29 Great Central Ave	Second	W1	32°N Inc	91.5	91.5	1	YES
29 Great Central Ave	Second	W2	32°N Inc	91.5	91.5	1	YES
29 Great Central Ave	Second	W3	212° Inc	91.49	91.3	1	YES
33 Great Central Ave	First	W1	32°N	39.62	39.62	1	YES
33 Great Central Ave	First	W2	32°N	39.62	39.62	1	YES
33 Great Central Ave	First	W3	302°N	35.39	26.22	0.74	non-habitable
33 Great Central Ave	First	W4	302°N	35.39	26.1	0.74	non-habitable
33 Great Central Ave	First	W5	212°	39.62	39.61	1	YES
33 Great Central Ave	First	W6	212°	39.62	39.62	1	YES

33 Great Central Ave	Ground	W1	32°N	38.13	38.13	1	YES
33 Great Central Ave	Ground	W2	32°N	36.78	36.78	1	YES
33 Great Central Ave	Ground	W3	302°N	26.12	15.49	0.59	non-habitable
33 Great Central Ave	Ground	W4	302°N	23.53	13.22	0.56	non-habitable
33 Great Central Ave	Ground	W5	212°	39.62	39.62	1	YES
33 Great Central Ave	Ground	W6	212°	39.62	39.62	1	YES
33 Great Central Ave	Ground	W7	212°	38.1	38.1	1	YES
33 Great Central Ave	Ground	W8	212°	39.57	39.56	1	YES

Annual probable sunlight hours (APSH) results

Building Name	Floor Name	Window Name	Window Orientation	Annual Ex	Annual Pr	Pr/Ex	Meets BRE Criteria	Winter Ex	Winter Pr	Pr/Ex	Meets BRE Criteria
29 Great Central Ave	First	W1	32°N	20	20	North	North	2	2	North	North
29 Great Central Ave	First	W2	32°N	20	20	North	North	2	2	North	North
29 Great Central Ave	First	W3	122°	66	51	0.77	non-habitable	21	14	0.67	ion-habitable
29 Great Central Ave	First	W4	212°	65	59	0.91	YES	25	20	0.8	YES
29 Great Central Ave	First	W5	212°	79	79	1	YES	27	27	1	YES
29 Great Central Ave	Ground	W1	32°N	19	19	North	North	1	1	North	North
29 Great Central Ave	Ground	W2	32°N	18	18	North	North	0	0	North	North
29 Great Central Ave	Ground	W3	32°N	17	17	North	North	0	0	North	North
29 Great Central Ave	Ground	W4	122°	49	19	0.39	non-habitable	14	4	0.29	non-habitable
29 Great Central Ave	Ground	W5	122°	38	17	0.45	non-habitable	9	5	0.56	non-habitable
29 Great Central Ave	Ground	W6	212°	58	49	0.84	YES	20	18	0.9	YES
29 Great Central Ave	Ground	W7	212°	79	77	0.97	YES	27	26	0.96	YES
29 Great Central Ave	Second	W1	32°N Inc	83	83	North	North	15	15	North	North
29 Great Central Ave	Second	W2	32°N Inc	83	83	North	North	15	15	North	North
29 Great Central Ave	Second	W3	212° Inc	95	93	0.98	YES	30	28	0.93	YES
33 Great Central Ave	First	W1	32°N	20	20	North	North	2	2	North	North
33 Great Central Ave	First	W2	32°N	20	20	North	North	2	2	North	North
33 Great Central Ave	First	W3	302°N	27	20	North	non-habitable	6	4	North	non-habitable
33 Great Central Ave	First	W4	302°N	28	22	North	non-habitable	7	6	North	non-habitable
33 Great Central Ave	First	W5	212°	80	80	1	YES	28	28	1	YES

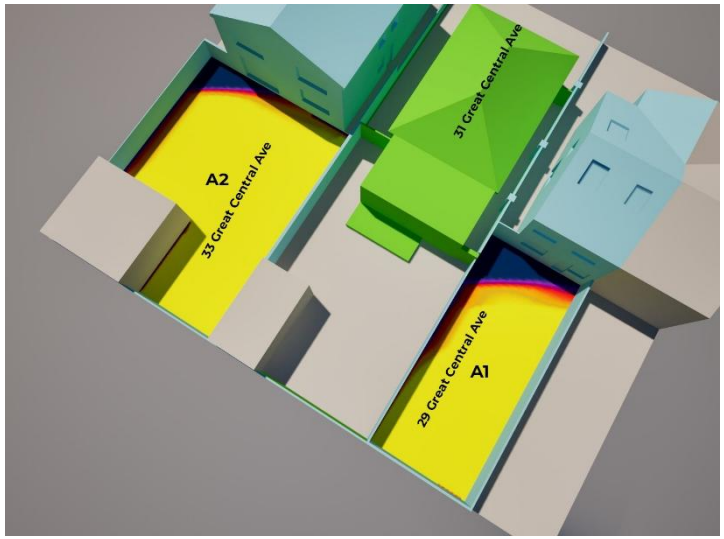
33 Great Central Ave	First	W6	212°	80	80	1	YES	28	28	1	YES
33 Great Central Ave	Ground	W1	32°N	20	20	North	North	2	2	North	North
33 Great Central Ave	Ground	W2	32°N	20	20	North	North	2	2	North	North
33 Great Central Ave	Ground	W3	302°N	24	18	North	non-habitable	5	5	North	non-habitable
33 Great Central Ave	Ground	W4	302°N	22	17	North	non-habitable	5	5	North	non-habitable
33 Great Central Ave	Ground	W5	212°	80	80	1	YES	28	28	1	YES
33 Great Central Ave	Ground	W6	212°	80	80	1	YES	28	28	1	YES
33 Great Central Ave	Ground	W7	212°	73	73	1	YES	28	28	1	YES
33 Great Central Ave	Ground	W8	212°	79	79	1	YES	28	28	1	YES

***** The BRE guidelines state regarding the APSH test "any windows facing within 90 degrees due north does not need to be analysed as there is no expectation of sunlight".

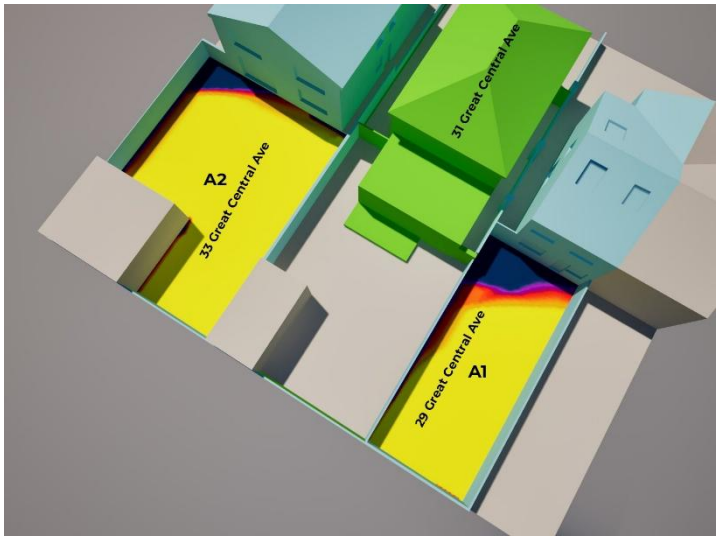
Garden Amenity, Sun On Ground (SOG) results

Building Name	Floor Name	Amenity Name	Amenity Area	Lit Area Ex	Lit Area Pr	Existing %	Proposed %	Pr/Ex	Meets BRE Criteria
29 Great Central Ave	Ground	A1	102.96	70.22	69.37	68%	67%	0.99	YES
33 Great Central Ave	Ground	A2	167.18	135.42	135.25	81%	81%	1	YES

Existing garden sunlight map (March 21st)



Proposed Garden sunlight map (March 21st)



End of report

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