REPORT

Belsize Fire Station 36 Lancaster Grove London NW3

Daylight and Sunlight and Overshadowing to Proposed accommodation

FEBRUARY 2016



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Drafted by:

Roberta Mancini MArch For Brooke Vincent + Partners email: roberta.mancini@brooke-vincent.co.uk Checked by: John Carter FRICS For Brooke Vincent + Partners email: john.carter@brooke-vincent.co.uk



11th February 2016

Belsize Fire Station, 36 Lancaster Grove, NW3 London

Daylight & Sunlight

We are instructed to provide a report on the daylight and sunlight aspects of this Planning Application with regard to the proposed accommodation within this existing Grade II Listed Building.

This report is based upon a 3D Model, scheme drawings prepared by Shaun Knight Architecture, survey information and photographs, together with daylight and sunlight studies prepared by Brooke Vincent + Partners.

1.0 <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 Daylight to the proposed accommodation would achieve BRE compliant values in response to the rooms' layouts that are possible within an existing Grade II Listed Building.
- 1.3 Typically for Central London, Sunlight availability would vary in response to aspect but the architect has ensured the layouts satisfy the recommendations of both BRE and the London Plan.



Directors: John Carter FRICS David Sirman MRICS Andrew Cornick BSc(Hons) MRICS Brooke Vincent + Partners is the trading name of Brooke Vincent Limited, a company Registered in England and Wales No.6009355. Registered address as above.

2.0 PLANNING POLICY

2.1 London Borough of Camden

Core Strategy (2010)

2.1.1 Camden's *Local Development Framework (LDF), November 2010,* sets out the key elements of the Council's vision for the Borough through its Core Strategy. The relevant policies are listed below.

POLICY CS5 – Managing the impact of growth and development

The second part of this Policy confirms:

"The Council will protect the amenity of Camden's residents and those working in and visiting the Borough by:

(e) Making sure that the impact of developments on their occupiers and neighbours is fully considered."

In the explanatory notes following this Policy item 5.8 confirms: "We will expect development to avoid harmful effects on the amenity of existing and future occupiers and nearby properties or, where this is not possible, to take appropriate measures to minimise potential negative impacts."

Development Policies (2010)

POLICY DP26 – Managing the impact of development on occupiers and neighbours

"The Council will protect the quality of life of occupiers and neighbours by only granting permission for development that does not cause harm to amenity. The factors we will consider include;

(c) Sunlight, daylight and artificial light levels."

The London Plan (March 2015, Consolidated with Alterations since 2011)

2.2 Camden Council also makes reference to the London Plan, which we refer to below and is used to compare the compatibility of the application to the stated Policy. Within the London Plan *"Housing Supplementary Planning Guidance, 2012,"* (HSPG) reference is made to the following:

Baseline Standards these are endorsed by the Mayor as addressing issues of particular strategic concern.

Good Practice Standards these are put forward by the Mayor as representing general good practice.

The standards that are relevant to daylight and sunlight are detailed below:

Baseline

Standard 5.2.1 - developments should avoid single aspect dwellings that are north facing, exposed to noise exposure Categories C or D, or contain three or more bedrooms.

Note: "north facing is usually defined as an orientation less than 45° either side of due north".

Good Practice

Standard 5.5.1 - glazing to all habitable rooms should be not less than 20% of the internal floor area of the room.

Standard 5.5.2 - 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.

2.3 In any case the London Plan does not provide numerical values for daylight or sunlight. Those given in this report are based upon the methods referred to in the next item. It should also be noted that the London Plan does not define a standard for neighbouring properties.

3.0 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". 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, photographs, and the architect's planning drawings also included in Appendix 2.
- 3.2.2 In this model, the neighbouring buildings are defined in green and the proposed building in magenta. This is further clarified by the architect's layout plans in

Appendix 2, which includes room references that can again be cross-referenced to the body of our report and the results sheets.

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 method of calculation for proposed accommodation is known as Average Daylight Factor (ADF). This is the most comprehensive of daylight calculations defined by BRE and is appropriate to proposed accommodation, because all relevant information is available.
- 3.3.4 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 where the kitchen is served by a local window.
 - 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.

3.3.5 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. It should also be noted that full height glazing requires individual

ADF calculations for those parts above and below the reference plane of 850mm above floor level. Hence the designation 'L' and 'U' against some results. The lower reading is reduced in accordance with BRE guidance, to satisfy the reduced effect this portion of daylight has on daylight received at the reference plane.

- 3.3.6 The following assumptions have been made with regard to the various elements that together are computed to produce the ADF value;
 - Glazing transmittance 0.68 for the double glazing (BRE default reading);
 0.8 for the single glazing;
 - Net glazed area of the window British Standard 8206 References:
 - 0.6 (wooden frame panelled windows);
 - 0.8 (new glazed panels and dormers);
 - Interior surface reflectance 0.5 (BRE default reading)
 - Reflectance beneath reference plane 0.15 (BRE default reading)

3.4 Sunlight

- 3.4.1 The BRE *Guide to Good Practice* confirms the criteria relevant to proposed accommodation:
- 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, left alone listed buildings.

4.0 DAYLIGHT ANALYSIS

Proposed Accommodation

- 4.1 We have analysed ADF (which is fully explained in item 3.3.3 to 3.3.6) for all habitable accommodation and the results are detailed within **Appendix 2**. The new residential accommodation would be located within an existing Grade II Listed building.
- 4.2 These confirm that not in all the analysed room ADF value are in excess of BRE's recommended value. BRE recognise the daylight to bedrooms is not as important as other habitable spaces.
- 4.3 The ADF values reflect the listed status of the building. Existing fenestration and architectural form is of foremost importance. Other aspects are inevitable compromised.
- 4.4 This is understood by the BRE Guidelines, which is why they confirm in their introduction, paragraph 1.6:
 - "The advice given is not mandatory and the guide should not be seen as an instrument of planning policy;
 - 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 values".

Daylight Summary

4.5 The internal planning of rooms responds to the building. Its hosted status demands that alternative values are considered. The daylight would be compliant with the BRE Guidelines.

5.0 SUNLIGHT ANALYSIS

Proposed Accommodation

- 5.1 A central London location always makes sunlight availability recommendations difficult to achieve, particularly in this case where new residential units are located within an existing Grade II Listed building.
 - 5.2 By reference to items **3.4.3** and **3.4.4** of this report, BRE suggest a residential development may be assessed by counting how many dwellings have a window to a main living room facing south, east or west. BRE then provide an example which provides 4 out of 5 living rooms with a southerly aspect.
 - 5.3 This has been fully considered by the architect and the designed layouts provide 4 out of 5 living rooms with at least one main window facing within 90° of due south. This conforms to the layout example provided by BRE where, it should be noted, there were no site constraints. This is a very good outcome.
- 5.4 Reference can also be made to the London Plan, which defines north facing as an orientation less than 45° either side of due north". The London Plan also states that Good Practice Standard 5.5.2; *All homes should provide for direct sunlight to enter at least one habitable room for part of the day.* Every flat would receive sunlight and is in accordance with the London Plan.

Sunlight Summary

5.5 Despite the constraints imposed by location and the hosted building sunlight availability would satisfy both BRE and London Plan criteria.

6.0 OVERSHADOWING

Proposed Accommodation

- 6.1 The proposed communal terrace at first floor level has been analysed for the receipt of sunlight on the ground. BRE recommends that at least 50% of the amenity area should receive two hours of sunlight on 21 March.
- 6.2 The results in **Appendix 3** confirm that on 21 March the two hours of sunlight figure would be 37%. However in the same location, just a month later (21 April) the result is greatly improved, with a result of 73%. This confirms that within a couple of weeks the result would pass the 50% required. See sunlight contours for 21 March, 21 April and 21 June in **Appendix 3**.

APPENDIX 1

3D CAD MODEL





APPENDIX 2

Proposed Accommodation:

- Average Daylight Factor (ADF)
 - Rooms location plans

Project Name: Belsize Fire Station - Lancaster Grove NW3
Project No: 10801
Architect: Shaun Knight Architecture
Iteration Description: ADF proposed accommodation

Floor	Room	Room	Window	Glass	Glazed	Clear Sky	Room	Average	Below	ADE	Rea'd
Ref.	Ref.	Use.	Ref.	Transmittance	Area	Angle Proposed	Surface Area	Surface Reflectance	Plane	Proposed	Value
						Tropoccu	7.104	Reneedance	Factor		
				Pro	oposed						
Lower Ground	R1	Livingroom	W10-L	0.68	0.28	59.99	103.51	0.50	0.15	0.02	
			W10-U	0.68	0.40	62.33	103.51	0.50	1.00	0.22	
			W8-L	0.68	0.28	55.81	103.51	0.50	0.15	0.02	
			W8-U	0.68	0.40	63.74	103.51	0.50	1.00	0.22	
			W9	0.68	0.87	71.87	103.51	0.50	1.00	0.55	
Lower Cround	50	Livingroom	\A/11 I	0.69	0.20	56.22		0.50	0.15	1.03	1.50
Lower Ground	RΖ	Livingroom	W11-L	0.68	0.28	50.52 63.58	90.63	0.50	1.00	0.02	
			W11-0	0.08	0.40	71 41	96.85	0.50	1.00	0.24	
			W13-L	0.68	0.28	59.93	96.85	0.50	0.15	0.02	
			W13-U	0.68	0.40	61.61	96.85	0.50	1.00	0.23	
										1.09	1.50
Lower Ground	R3	Livingroom	W14-L	0.68	0.28	55.82	88.59	0.50	0.15	0.02	
			W14-U	0.68	0.40	62.05	88.59	0.50	1.00	0.25	
			W15	0.68	0.87	70.74	88.59	0.50	1.00	0.63	
			W16-L	0.68	0.28	60.13	88.59	0.50	0.15	0.03	
			W16-U	0.68	0.40	62.01	88.59	0.50	1.00	0.25	
Lauran Cara I	54	1.6.7.5.5.	14/4 -	0.00	0.02	74.40	103.37	0.50	4.00	1.18	1.50
Lower Ground	R4	Livingroom	W17	0.68	0.96	71.46	103.34	0.50	1.00	0.60	
			VV 18	0.68	3.47	73.05	103.34	0.50	1.00	2.22	1 50
Lower Ground	R5	Bedroom	W19	0.68	0.98	55 64	54 02	0.50	1 00	0.92	1.50
Lower Ground	110	bearbonn	1115	0.00	0.50	55.04	54.02	0.50	1.00	0.92	1.00
Lower Ground	R6	Kitchen	W25	0.68	0.62	11.29	30.75	0.50	1.00	0.21	
										0.21	2.00
Lower Ground	R7	Bedroom	W20	0.68	0.98	8.82	52.92	0.50	1.00	0.15	
										0.15	1.00
Lower Ground	R8	Bedroom	W21	0.68	0.56	15.09	46.43	0.50	1.00	0.17	
										0.17	1.00
Ground	R1	Bedroom	W1	0.80	1.44	74.97	70.23	0.50	1.00	1.64	
			W33	0.80	0.58	49.66	70.23	0.50	1.00	0.43	1.00
Ground	R2	Bedroom	W/2	0.80	0.76	60 /3	87 / 8	0.50	1.00	0.65	1.00
Ground	112	bearbonn	112	0.00	0.70	05.45	07.40	0.50	1.00	0.65	1.00
Ground	R3	Livingroom	W3	0.80	0.68	67.14	188.90	0.50	1.00	0.26	
		-	W4	0.80	1.45	68.77	188.90	0.50	1.00	0.56	
			W5	0.80	2.21	76.30	188.90	0.50	1.00	0.95	
			W6	0.80	1.52	68.39	188.90	0.50	1.00	0.59	
			W7	0.80	1.55	72.11	188.90	0.50	1.00	0.63	
										2.99	1.50
Ground	R4	Bedroom	W19-L	0.68	0.53	70.17	71.07	0.50	0.15	0.07	
			W19-U	0.68	0.28	59.23	71.07	0.50	1.00	0.21	
			W20	0.68	0.53	53.05	/1.0/	0.50	1.00	0.36	1.00
Ground	R8	Bedroom	W/22-I	0.68	1.62	53.02	100 64	0.50	0.15	0.04	1.00
Ground	NO	bearbonn	W22-U	0.68	3.61	47.30	100.64	0.50	1.00	1.54	
										1.66	1.00
Ground	R9	LKD	W23	0.68	1.20	66.43	444.58	0.50	1.00	0.16	
			W24-L	0.68	1.62	51.54	444.58	0.50	0.15	0.03	
			W24-U	0.68	5.72	35.38	444.58	0.50	1.00	0.41	
			W25	0.80	0.65	59.47	444.58	0.50	1.00	0.09	
			W26-L	0.68	1.62	52.65	444.58	0.50	0.15	0.03	
			W26-U	0.68	5.72	36.60	444.58	0.50	1.00	0.43	
			W27-L	0.68	1.62	53.04	444.58	0.50	0.15	0.03	
			W27-U	0.68	5.72	37.23	444.58	0.50	1.00	0.43	
			W28	0.80	1.20	62 F2	444.58	0.50	1.00	0.20	
			VV3U \\\/21	0.80	1.20	03.5Z 56 Q/	444.58 444 59	0.50	1.00	0.18	
			VVDI	0.60	1.20	50.94	444.36	0.50	1.00	2 15	2 00
Ground	R10	Bedroom	W29	0.68	0.29	47.52	130.66	0.50	1.00	0.10	2.00
			W35	0.80	0.85	0.00	130.66	0.50	1.00	0.00	
										0.10	1.00
Ground	R11	Bedroom	W32	0.68	0.58	52.52	73.96	0.50	1.00	0.37	
										0.37	1.00
Ground	R12	Livingroom	W34-L	0.68	0.61	61.79	37.57	0.50	0.15	0.14	
			W34-U	0.68	1.07	62.33	37.57	0.50	1.00	1.61	
										1.75	1.50

Project Name: Belsize Fire Station - Lancaster Grove NW3 Project No: 10801 Architect: Shaun Knight Architecture Iteration Description: ADF proposed accommodation Date of Analysis: 11/02/2016

Ref. Ref. Use. Ref. Transmittance Area Patter arrow Patter	Floor	Room	Room	Window	Glass	Glazed	Clear Sky	Room	Average	Below Working	ADF	Req'd
First 89 Livingroom W21 0.80 0.81 67.107 177.14 0.50 1.00 0.35 First R10 Bedroom W24 0.66 0.86 74.12 83.20 0.50 1.00 0.35 1.35 First R11 LKD W26 0.80 2.36 74.65 297.50 0.50 1.00 0.67 First R11 LKD W26 0.80 2.36 74.65 297.50 0.50 1.00 0.67 W27 0.80 0.36 1.92 88.02 0.50 1.00 0.67 W28 0.80 0.13 35.64 297.50 0.50 1.00 0.62 W31 0.80 0.11 45.41 297.50 0.50 1.00 0.26 W33 0.80 0.13 32.47 297.50 0.50 1.00 0.26 W33 0.80 0.54 77.44 101.78 0.50 1.00 0	Ref.	Ref.	Use.	Ref.	Transmittance	Area	Proposed	Area	Reflectance	Plane Factor	Proposed	Value
W22 0.80 0.81 71.07 177.14 0.50 1.00 0.35 First R10 Bedroom W24 0.68 0.86 74.12 83.20 0.50 1.00 0.63 1.03 1.50 First R11 LKD W26 0.80 2.36 74.65 297.50 0.50 1.00 0.63 1.00 First R11 LKD W26 0.80 2.36 74.65 297.50 0.50 1.00 0.67 0.63 1.00 0.67 0.60 1.00 0.67 0.55 1.00 0.67 0.50 1.00 0.62 0.55 1.00 0.62 0.50 1.00 0.62 0.50 1.00 0.62 0.50 1.00 0.62 0.55 1.00 0.62 0.55 1.00 0.62 0.50 1.00 0.62 0.50 1.00 0.62 0.50 1.00 0.62 0.50 1.00 0.62 0.63 1.64.20 1.17.8	First	R9	Livingroom	W21	0.80	0.81	68.28	177.14	0.50	1.00	0.33	
W23 0.80 0.81 7.74 1.71.4 0.50 1.00 0.35 1.50 First R10 Bedroom W24 0.68 0.86 74.12 83.20 0.50 1.00 0.69 1.51 First R11 LKD W26 0.80 2.36 74.65 297.50 0.50 1.00 0.63 W27 0.80 2.36 79.30 297.50 0.50 1.00 0.67 W29 0.80 2.42 59.42 297.50 0.50 1.00 0.02 W31 0.80 0.11 45.61 297.50 0.50 1.00 0.02 W31 0.80 0.13 45.41 297.50 0.50 1.00 0.02 W31 0.80 1.55 46.20 297.50 0.50 1.00 0.27 2.00 First R12 Bedroom W25-1 0.80 1.34 78.44 101.78 0.50 1.00 0.27				W22	0.80	0.81	71.07	177.14	0.50	1.00	0.35	
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W25 0.80 V4.20 83.20 0.50 1.00 0.82 First R11 LKD W26 0.80 2.36 74.65 297.50 0.50 1.00 0.63 W27 0.80 1.32 80.42 297.50 0.50 1.00 0.67 W28 0.80 1.32 80.42 297.50 0.50 1.00 0.51 W30 0.80 0.13 35.06 297.50 0.50 1.00 0.62 W31 0.80 0.13 35.06 297.50 0.50 1.00 0.02 W32 0.80 0.13 35.06 297.50 0.50 1.00 0.02 W33 0.80 0.51 46.20 297.50 0.50 1.00 0.26 W33 0.80 0.61 47.65 101.78 0.50 1.00 0.27 W33-U 0.80 0.61 49.66 101.78 0.50 1.00 0.23 Second <td>First</td> <td>R10</td> <td>Bedroom</td> <td>W24</td> <td>0.68</td> <td>0.86</td> <td>74.12</td> <td>83.20</td> <td>0.50</td> <td>1.00</td> <td>0.69</td> <td></td>	First	R10	Bedroom	W24	0.68	0.86	74.12	83.20	0.50	1.00	0.69	
First R11 LKD W26 0.80 2.36 74.65 297.50 0.50 1.00 0.63 W27 0.80 2.36 79.30 297.50 0.50 1.00 0.67				W25	0.80	0.86	74.20	83.20	0.50	1.00	0.82	1.00
Inst K11 LKD W27 0.80 2.38 74.39 297.50 0.50 1.00 0.03 W28 0.80 1.92 80.42 297.50 0.50 1.00 0.57 W28 0.80 1.92 80.42 297.50 0.50 1.00 0.02 W30 0.80 0.71 45.41 297.50 0.50 1.00 0.02 W31 0.80 0.71 45.41 297.50 0.50 1.00 0.02 W33 0.80 0.13 32.47 297.50 0.50 1.00 0.02 W33 0.80 1.34 78.44 101.78 0.50 1.10 0.27 W33 0.80 0.61 49.66 101.78 0.50 1.00 0.45 W34 0.80 0.78 37.96 43.23 0.50 1.00 0.27 Second R1 Livingroom W1 0.68 1.48 73.89 72.49 0.50<	First	D11		Wac	0.90	2.26	74.65	207 50	0.50	1 00	1.51	1.00
First R13 Kitchen W1 0.68 0.14 73.95 1.93 1.93 0.03 1.10 0.03 First R12 Bedroom W28 0.80 1.24 59.42 297.50 0.50 1.00 0.51 W30 0.80 0.13 35.06 297.50 0.50 1.00 0.12 W31 0.80 0.11 45.41 297.50 0.50 1.00 0.26 W32 0.80 1.13 297.50 0.50 1.00 0.26 W32 0.80 1.01 74.65 101.78 0.50 1.00 0.79 W33-L 0.80 0.61 44.66 101.78 0.50 1.00 0.45 W33-L 0.80 0.68 1.48 66.45 109.94 0.50 1.00 0.31 Second R1 Livingroom W1 0.68 1.48 73.91 76.97 0.50 1.00 1.29 1.00 1.37	FIISL	KII	LKD	W20	0.80	2.50	74.05	297.50	0.50	1.00	0.05	
First R13 Kitchen W3 0.66 1.42 59.42 27.50 0.50 1.00 0.51 First R12 0.80 0.13 35.06 27.50 0.50 1.00 0.02 First R12 Bedroom W3 0.80 0.13 32.42 297.50 0.50 1.00 0.02 First R12 Bedroom W264 0.80 1.34 78.44 101.78 0.50 1.00 0.26 2.77 2.00 W33-U 0.80 0.61 49.66 101.78 0.50 0.15 0.65 1.00 0.45 0.50 1.00 0.79 1.00 0.79 1.00 0.73 1.00 0.73 1.00 0.73 1.00 0.73 1.00 0.73 1.00 0.81 1.01 1.66 1.01,78 0.50 1.00 0.23 1.00 1.23 1.00 1.23 1.00 1.24 1.00 1.01 1.50 2.43 1.00				W27 W/28	0.80	1 02	80.42	297.50	0.50	1.00	0.07	
First R13 Bedroom W1 0.68 0.14 55.74 2.97.50 0.50 1.00 0.02 W31 0.80 0.71 45.41 297.50 0.50 1.00 0.02 W33 0.80 0.71 45.41 297.50 0.50 1.00 0.02 W33 0.80 1.55 46.20 297.50 0.50 1.00 0.26 W33 0.80 1.55 46.20 297.50 0.50 1.00 0.26 W33 0.80 1.01 77.465 101.78 0.50 1.00 0.79 W33-U 0.80 0.78 37.96 43.23 0.50 1.00 0.73 2.00 Second R1 Livingroom W1 0.68 1.48 73.81 0.50 1.00 0.20 0.31 1.00 0.21 0.00 0.21 0.00 0.21 0.00 0.22 0.00 0.73 2.00 0.01 0.00 0.22				W/20	0.80	2 42	59.42	297.50	0.50	1.00	0.55	
First R1 0.80 0.71 45.41 297.50 0.50 1.00 0.12 First R12 Bedroom W26-L 0.80 1.34 78.44 101.78 0.50 1.00 0.02 2.77 2.00 First R12 Bedroom W26-L 0.80 1.34 78.44 101.78 0.50 1.00 0.26 2.77 2.00 W33-U 0.80 0.61 49.66 101.78 0.50 1.00 0.73 2.00 W33-U 0.80 0.78 37.96 43.23 0.50 1.00 0.73 2.00 Second R1 Livingroom W1 0.68 1.48 66.45 109.94 0.50 1.00 0.21 1.01 1.50 2.43 2.00 1.01 1.50 2.43 2.00 1.01 1.50 2.43 2.00 1.01 1.50 2.43 2.00 1.01 1.29 1.00 1.23 1.00 1.23 1.00 </td <td></td> <td></td> <td></td> <td>W30</td> <td>0.80</td> <td>0.13</td> <td>35.06</td> <td>297.50</td> <td>0.50</td> <td>1.00</td> <td>0.02</td> <td></td>				W30	0.80	0.13	35.06	297.50	0.50	1.00	0.02	
First R12 Bedroom W32 0.80 0.13 32.47 297.50 0.50 1.00 0.02 First R12 Bedroom W26-L 0.80 1.34 78.44 101.78 0.50 1.00 0.27 2.00 W33-L 0.80 0.61 49.65 101.78 0.50 1.00 0.79 W33-L 0.80 0.61 49.65 101.78 0.50 1.00 0.65 W33-U 0.80 0.61 49.65 101.78 0.50 1.00 0.65 W33-U 0.80 0.78 37.96 43.23 0.50 1.00 0.65 Second R1 Livingroom W1 0.68 1.48 73.83 40.73 0.50 1.00 0.20 1.01 1.50 Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.29 1.00 Second R4 Bedroom W3 <td></td> <td></td> <td></td> <td>W31</td> <td>0.80</td> <td>0.15</td> <td>45 41</td> <td>297.50</td> <td>0.50</td> <td>1.00</td> <td>0.02</td> <td></td>				W31	0.80	0.15	45 41	297.50	0.50	1.00	0.02	
First R12 Bedroom W26-L W26-U 0.80 1.34 78.44 101.78 0.50 1.00 0.26 U 2.77 2.00 First R12 Bedroom W26-L W33-U 0.80 1.01 74.65 101.78 0.50 1.01 0.79 0.79 0.79 0.45 0.45 0.45 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.65 0.45 0.50 1.00 0.50 0.65 0.45 0.50 1.00 0.61 0.56 0.65 1.06 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50				W32	0.80	0.13	32 47	297 50	0.50	1.00	0.02	
First R12 Bedroom W26-L W26-L W33-L W33-L W33-U 0.80 0.80 1.34 0.80 78.44 0.50 101.78 0.50 0.50 0.15 0.17 0.05 0.17 0.73 First R13 Kitchen W35 0.80 0.61 49.66 101.78 0.50 1.00 0.45 First R13 Kitchen W35 0.80 0.78 37.96 43.23 0.50 1.00 0.73 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.20 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 0.20 Second R3 Bedroom W3 0.68 1.48 73.87 0.50 1.00 1.29 1.00 Second R4 Bedroom W3 0.68 1.48 73.97 72.49 0.50 1.00 1.37 1.00 Second R6 Livingroom W6				W33	0.80	1.55	46.20	297.50	0.50	1.00	0.26	
First R12 Bedroom W26-L 0.80 1.34 78.44 101.78 0.50 0.15 0.17 W36-U 0.80 0.61 47.65 101.78 0.50 1.00 0.79 W33-U 0.80 0.61 47.65 101.78 0.50 1.00 0.75 First R13 Kitchen W35 0.80 0.78 37.96 43.23 0.50 1.00 0.73 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.21 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 0.21 Second R3 Bedroom W2 0.68 1.48 73.83 40.73 0.50 1.00 1.37 1.00 Second R4 Bedroom W4 0.68 1.48 73.89 72.49 0.50 1.00 1.36 1.36 1.36 <td></td> <td>2.77</td> <td>2.00</td>											2.77	2.00
w26-U 0.80 1.01 74.65 101.78 0.50 1.00 0.79 W33-L 0.80 0.61 44.66 101.78 0.50 1.05 0.55 First R13 Kitchen W35 0.80 0.78 37.96 43.23 0.50 1.00 0.45 1.00 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.20 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.20 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 1.24 Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.37 Second R4 Bedroom W4 0.68 1.48 73.68 162.39 0.50 1.00 0.13 Second <td>First</td> <td>R12</td> <td>Bedroom</td> <td>W26-L</td> <td>0.80</td> <td>1.34</td> <td>78.44</td> <td>101.78</td> <td>0.50</td> <td>0.15</td> <td>0.17</td> <td></td>	First	R12	Bedroom	W26-L	0.80	1.34	78.44	101.78	0.50	0.15	0.17	
W33-L 0.80 0.61 49.66 101.78 0.50 0.15 0.05 First R13 Kitchen W35 0.80 0.78 37.96 43.23 0.50 1.00 0.45 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.73 2.00 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.81 1.01 1.50 2.00 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 2.43 2.00 Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.37 1.00 1.37 1.00 1.37 1.00 1.37 1.00 1.37 1.00 1.37 1.00 1.36 1.00 0.51 0.50 1.00 0.51 0.50 1.00 <td></td> <td></td> <td></td> <td>W26-U</td> <td>0.80</td> <td>1.01</td> <td>74.65</td> <td>101.78</td> <td>0.50</td> <td>1.00</td> <td>0.79</td> <td></td>				W26-U	0.80	1.01	74.65	101.78	0.50	1.00	0.79	
W33-U 0.80 0.93 46.20 101.78 0.50 1.00 0.45 1.00 First R13 Kitchen W35 0.80 0.78 37.96 43.23 0.50 1.00 0.73 2.00 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.20 Second R1 Livingroom W1 0.68 1.48 66.45 109.94 0.50 1.00 0.20 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 1.43 2.00 Second R3 Bedroom W3 0.68 1.48 73.89 72.49 0.50 1.00 1.37 1.00 Second R5 Bedroom W4 0.68 1.48 73.89 72.49 0.50 1.00 1.37 1.00 Second R6 Livingroom W6 0.68 1.48 <td></td> <td></td> <td></td> <td>W33-L</td> <td>0.80</td> <td>0.61</td> <td>49.66</td> <td>101.78</td> <td>0.50</td> <td>0.15</td> <td>0.05</td> <td></td>				W33-L	0.80	0.61	49.66	101.78	0.50	0.15	0.05	
First R13 Kitchen W35 0.80 0.78 37.96 43.23 0.50 1.00 0.73 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.20 Second R2 Kitchen W2 0.68 1.48 66.45 109.94 0.50 1.00 2.43 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 2.43 2.00 Second R3 Bedroom W3 0.68 1.48 73.89 72.49 0.50 1.00 1.37 1.00 Second R5 Bedroom W4 0.68 1.48 73.77 72.64 0.50 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 0.31 1.00 0.50 1.00 0.31 1.00 0.50 1.00 0.50 1.00				W33-U	0.80	0.93	46.20	101.78	0.50	1.00	0.45	
First R13 Kitchen W35 0.80 0.78 37.96 43.23 0.50 1.00 0.73 2.00 Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.20 - Second R2 Kitchen W2 0.68 1.48 66.45 109.94 0.50 1.00 0.21 - 1.01 1.50 2.43 2.00 Second R3 Bedroom W3 0.68 1.48 73.83 40.73 0.50 1.00 1.29 1.00 1.29 1.00 1.37 1.00 1.37 1.00 1.37 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.36 1.00											1.46	1.00
Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.20 Second R2 Kitchen W2 0.68 1.48 66.45 109.94 0.50 1.00 0.81 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 2.43 2.00 Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.29 1.00 Second R4 Bedroom W4 0.68 1.48 73.89 72.49 0.50 1.00 1.37 1.00 Second R5 Bedroom W5 0.68 1.48 73.77 72.64 0.50 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61	First	R13	Kitchen	W35	0.80	0.78	37.96	43.23	0.50	1.00	0.73	
Second R1 Livingroom W1 0.68 0.34 71.77 109.94 0.50 1.00 0.20 Second R2 Kitchen W2 0.68 1.48 66.45 109.94 0.50 1.00 0.81 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 1.29 1.00 Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.37 1.00 Second R4 Bedroom W4 0.68 1.48 73.77 72.64 0.50 1.00 1.37 1.00 Second R5 Bedroom W5 0.68 1.48 73.77 72.64 0.50 1.00 0.13 1.36 1.00 1.36 1.36 1.36 1.36 1.36 1.36 1.36 1.36 1.00 0.31 1.36 1.00 0.31 1.36 1.00 0.31											0.73	2.00
W13 0.68 1.48 66.45 109.94 0.50 1.00 0.81 Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 2.43 2.00 Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.29 1.00 Second R4 Bedroom W4 0.68 1.48 73.97 72.69 0.50 1.00 1.37 1.00 Second R5 Bedroom W5 0.68 1.48 73.77 72.64 0.50 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.50 1.00 0.51	Second	R1	Livingroom	W1	0.68	0.34	71.77	109.94	0.50	1.00	0.20	
Second R2 Kitchen W2 0.68 1.48 73.83 40.73 0.50 1.00 2.43 2.00 Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.29 1.00 1.29 1.00 1.37 1.00 1.37 1.00 1.37 1.00 1.37 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 1.36 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50				W13	0.68	1.48	66.45	109.94	0.50	1.00	0.81	
Second R2 Ktchen W2 0.68 1.48 73.83 40.73 0.50 1.00 2.43 Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.29 1.00 Second R4 Bedroom W4 0.68 1.48 73.89 72.49 0.50 1.00 1.37 1.00 Second R5 Bedroom W5 0.68 1.48 73.77 72.64 0.50 1.00 1.35 1.00 Second R6 Livingroom W6 0.68 1.48 73.68 162.39 0.50 1.00 0.51 1.00 0.51 1.00 0.13 1.36 1.00 0.13 1.00 0.13 1.50 0.50 1.00 0.13 1.50 0.50 1.00 0.13 1.50 0.50 1.00 0.39 1.50 0.50 1.00 0.34 1.50 0.50 1.00 0.33 1.50											1.01	1.50
Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.29 1.00 Second R4 Bedroom W4 0.68 1.48 73.99 72.49 0.50 1.00 1.37 1.00 Second R5 Bedroom W4 0.68 1.48 73.77 72.64 0.50 1.00 1.36 1.00 Second R5 Bedroom W6 0.68 1.48 73.68 162.39 0.50 1.00 0.61 1.36 1.00 Second R6 Livingroom W6 0.68 1.48 73.68 162.39 0.50 1.00 0.61 1.36 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 0.31 1.00 <td< td=""><td>Second</td><td>R2</td><td>Kitchen</td><td>W2</td><td>0.68</td><td>1.48</td><td>/3.83</td><td>40.73</td><td>0.50</td><td>1.00</td><td>2.43</td><td></td></td<>	Second	R2	Kitchen	W2	0.68	1.48	/3.83	40.73	0.50	1.00	2.43	
Second R3 Bedroom W3 0.68 1.48 73.91 76.97 0.50 1.00 1.29 1.00 Second R4 Bedroom W4 0.68 1.48 73.89 72.49 0.50 1.00 1.37 1.00 Second R5 Bedroom W5 0.68 1.48 73.77 72.64 0.50 1.00 1.36 1.00 Second R6 Livingroom W6 0.68 1.48 73.67 0.50 1.00 0.61 1.36 1.00 1.36 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 1.00 0.51 0.51 0.50	Conned	52	Deducers	14/2	0.00	1 40	72.01	70.07	0.50	1 00	2.43	2.00
Second R4 Bedroom W4 0.68 1.48 73.89 72.49 0.50 1.00 1.37 1.00 Second R5 Bedroom W5 0.68 1.48 73.77 72.64 0.50 1.00 1.36 1.00 Second R6 Livingroom W6 0.68 1.48 73.77 72.64 0.50 1.00 0.61 1.36 1.00 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.36 1.00 0.61 1.00 0.63 1.00	Second	K3	Beuroom	VV 5	0.08	1.40	75.91	70.97	0.50	1.00	1.29	1.00
Second R5 Bedroom W5 0.68 1.48 73.69 72.49 0.50 1.00 1.37 1.00 Second R5 Bedroom W5 0.68 1.48 73.77 72.64 0.50 1.00 1.36 1.00 Second R6 Livingroom W6 0.68 1.48 73.68 162.39 0.50 1.00 0.61 W7 0.68 0.33 71.69 162.39 0.50 1.00 0.13 W8 0.68 0.33 71.69 162.39 0.50 1.00 0.13 Second R7 Livingroom W10 0.68 0.77 69.14 123.48 0.50 1.00 0.39 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 1.00 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 0.84 2.00 Third R1 Kitchen W1 0.80 0.82	Second	R/	Bedroom	W/4	0.68	1 / 8	73 80	72 /0	0.50	1.00	1.25	1.00
Second R5 Bedroom W5 0.68 1.48 73.77 72.64 0.50 1.00 1.17 1.00 Second R6 Livingroom W6 0.68 1.48 73.68 162.39 0.50 1.00 0.61 1.36 1.00 0.61 Second R6 Livingroom W6 0.68 0.33 71.35 162.39 0.50 1.00 0.61 W7 0.68 0.33 71.69 162.39 0.50 1.00 0.13 W8 0.68 0.77 69.14 123.48 0.50 1.00 0.39 Second R7 Livingroom W10 0.68 0.77 69.14 123.48 0.50 1.00 0.39 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 <td>Second</td> <td>114</td> <td>bearoonn</td> <td>***</td> <td>0.00</td> <td>1.40</td> <td>75.05</td> <td>72.45</td> <td>0.50</td> <td>1.00</td> <td>1.37</td> <td>1.00</td>	Second	114	bearoonn	***	0.00	1.40	75.05	72.45	0.50	1.00	1.37	1.00
Second R6 Livingroom W6 0.68 1.48 73.68 162.39 0.50 1.00 0.61 Second R6 Livingroom W6 0.68 1.48 73.68 162.39 0.50 1.00 0.61 W7 0.68 0.33 71.35 162.39 0.50 1.00 0.13 W8 0.68 0.33 71.69 162.39 0.50 1.00 0.13 Second R7 Livingroom W10 0.68 0.77 69.14 123.48 0.50 1.00 0.39 Second R7 Livingroom W10 0.68 0.77 68.64 123.48 0.50 1.00 0.39 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 1.00 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 0.84 2.00 Third R1 Kitchen W1 0.80 0.81 73.40 75	Second	R5	Bedroom	W/5	0.68	1 48	73 77	72 64	0.50	1 00	1.37	1.00
Second R6 Livingroom W6 0.68 1.48 73.68 162.39 0.50 1.00 0.61 1.00 0.13 W7 0.68 0.33 71.35 162.39 0.50 1.00 0.13 0.13 0.13 0.13 0.13 0.13 0.87 1.50 0.87 1.50 0.87 1.50 0.87 1.50 0.87 1.50 0.39 0.33 1.50 0.39 0.39 0.39 0.77 0.58 0.50 1.00 0.39 0.77 1.50 0.87 1.50 0.39 0.77 1.50 0.83 1.00 0.39 0.77 1.50 0.83 1.00 0.83 1.00 0.83 1.00 0.83 1.00 0.83 1.00 0.83 1.00 0.83 1.00 0.84 0.82 0.50 1.00 0.84 0.00 0.84 0.00 0.84 0.00 0.84 0.00 0.84 0.00 0.84 0.50 1.00 0.34	Second	115	Bearoonn		0.00	1.40	/ 5.//	72.04	0.50	1.00	1.36	1.00
W7 0.68 0.33 71.35 162.39 0.50 1.00 0.13 W8 0.68 0.33 71.35 162.39 0.50 1.00 0.13 Second R7 Livingroom W10 0.68 0.77 69.14 123.48 0.50 1.00 0.39 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 1.50 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 1.00 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 0.83 1.00 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 0.84 2.00 Third R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00	Second	R6	Livingroom	W6	0.68	1.48	73.68	162.39	0.50	1.00	0.61	
Second R7 Livingroom W10 0.68 0.77 69.14 123.48 0.50 1.00 0.13 0.87 1.50 Second R7 Livingroom W10 0.68 0.77 69.14 123.48 0.50 1.00 0.39 1.50 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.39 0.77 1.50 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 1.00 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 0.83 1.00 Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 0.06 0.84 0.00 0.84 0.00 0.84 0.00 0.50 1.00 0.34 1.50 1.00 0.34 1.50 </td <td></td> <td></td> <td>0</td> <td>W7</td> <td>0.68</td> <td>0.33</td> <td>71.35</td> <td>162.39</td> <td>0.50</td> <td>1.00</td> <td>0.13</td> <td></td>			0	W7	0.68	0.33	71.35	162.39	0.50	1.00	0.13	
Second R7 Livingroom W10 0.68 0.77 69.14 123.48 0.50 1.00 0.39 1.50 Second R8 Bedroom W11 0.68 0.77 68.64 123.48 0.50 1.00 0.39 0.77 1.50 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 1.00 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 0.83 1.00 Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 2.00 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.34 1.50 Fifth R1 Bedroom W1 0.80 0.81 76.82 69.71 0.50 1.00 1.30 1.50				W8	0.68	0.33	71.69	162.39	0.50	1.00	0.13	
Second R7 Livingroom W10 0.68 0.77 69.14 123.48 0.50 1.00 0.39 W9 0.68 0.77 68.64 123.48 0.50 1.00 0.39 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 0.83 1.00 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 0.83 1.00 Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 2.00 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.34 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96											0.87	1.50
W9 0.68 0.77 68.64 123.48 0.50 1.00 0.39 Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 1.18 1.00 Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 2.00 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 W2 0.80 0.34 65.62 69.71 0.50 1.00 0.96 Fourth R1 Livingroom W1 0.80 0.81 76.82 69.71 0.50 1.00 0.34 I.30 I.30 I.30 I.30 I.30 I.30 I.30 I.02 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.02 <t< td=""><td>Second</td><td>R7</td><td>Livingroom</td><td>W10</td><td>0.68</td><td>0.77</td><td>69.14</td><td>123.48</td><td>0.50</td><td>1.00</td><td>0.39</td><td></td></t<>	Second	R7	Livingroom	W10	0.68	0.77	69.14	123.48	0.50	1.00	0.39	
Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 1.00 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 1.18 1.00 Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 2.00 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 W2 0.80 0.34 65.62 69.71 0.50 1.00 0.34 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.30 1.50				W9	0.68	0.77	68.64	123.48	0.50	1.00	0.39	
Second R8 Bedroom W11 0.68 0.77 63.22 53.05 0.50 1.00 0.83 Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 1.18 1.00 Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 W2 0.80 0.34 65.62 69.71 0.50 1.00 0.34 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.30 1.50 I.02 I.02 1.00 1.02 1.00 1.02 1.00											0.77	1.50
Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 1.18 1.00 Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 1.18 1.00 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 W2 0.80 0.34 65.62 69.71 0.50 1.00 1.30 1.50 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.02 1.00	Second	R8	Bedroom	W11	0.68	0.77	63.22	53.05	0.50	1.00	0.83	
Second R9 Bedroom W12 0.68 1.48 56.19 64.16 0.50 1.00 1.18 Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.50 I.30 1.50 I.00 I.00 I.00 I.00 I.00 I.02 I.00											0.83	1.00
Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 2.00 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 W2 0.80 0.34 65.62 69.71 0.50 1.00 0.34 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.02 Interval Interval Interval Interval Interval Interval Interval Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 Interval Interval Interval Interval Interval Interval Interval Interval Interval Interval Bedroom W1 0.80 0.81 76.82 64.96 0.50 Interval Interval Interval Interval Interval Interval Interval	Second	R9	Bedroom	W12	0.68	1.48	56.19	64.16	0.50	1.00	1.18	
Third R1 Kitchen W1 0.80 0.81 73.40 75.68 0.50 1.00 0.84 2.00 Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 W2 0.80 0.34 65.62 69.71 0.50 1.00 0.34 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.02 Livingroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.00											1.18	1.00
Fourth R1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 W2 0.80 0.34 65.62 69.71 0.50 1.00 0.96 Image: Second	Third	R1	Kitchen	W1	0.80	0.81	73.40	75.68	0.50	1.00	0.84	
Fourth K1 Livingroom W1 0.80 0.82 76.55 69.71 0.50 1.00 0.96 W2 0.80 0.34 65.62 69.71 0.50 1.00 0.34 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.02 1.02 1.00 1.02 1.00 1.00 1.02 1.00	E	54		14/4	0.00	0.02	76 55	60.74	0.50	4.00	0.84	2.00
vv2 0.60 0.34 05.02 09.71 0.50 1.00 0.34 I.30 I.30 I.30 I.50 I.00 I.02 I.00 I.02 I.02 I.00 I.02 I.00 I.02 I.00 I.02 I.00 I.02 I.00 I.02 I.00 I.02 I.00 I.02 I.00 I.00 I.02 I.00 I	Fourth	KI	Livingroom	W1	0.80	0.82	/6.55	60.71	0.50	1.00	0.96	
I.30 I.30 I.30 Fifth R1 Bedroom W1 0.80 0.81 76.82 64.96 0.50 1.00 1.02 1.02 1.02 1.02 1.00 1.02 1.02 1.00				VV Z	0.80	0.34	05.02	09.71	0.50	1.00	0.34	1 50
1.02 1.00 1.02 1.00 1.02 1.00 1.02 1.00 1.00	Fifth	R 1	Bedroom	\\\/1	0.80	0 81	76 82	64 96	0.50	1 00	1.00	1.50
	1 11 11	111	Dearbolli	AA T	0.00	0.01	70.02	04.50	0.50	1.00	1.02	1.00



12

15M 1:100

PROPOSED BASEMENT PLAN

New Window in lieu 17 m² of door H R5 KR6 4 Door to window BEDROOM । Dpoorto Window UNIT 1 1 R7 55 m² -BEDROOM R8 KITCHEN BATH ROOM KITCHEN LIVING KITCHEN DINING UNIT 3 DINING UNIT 4 DINIAT

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PROPOSED GROUND FLOOR PLAN

0 3 6 9 12 15M 1:100

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PROPOSED FIRST FLOOR PLAN



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PROPOSED SECOND FLOOR PLAN

0 3 6 9 12 15M

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APPENDIX 3

Permanent Overshadowing Diagram

