London Borough of Hillingdon
3N/02 Civic Centre
High Street
Uxbridge
Middlesex
UB8 1UW

17 SLINGSBY PLACE
LONDON | WC2E 9AB

31st May 2022

Dear Sirs

RE: FORMER CANTEEN BUILDING AND BLOCK H, FORMER NESTLE FACTORY – INTERNAL DAYLIGHT AMENITY

BDW Trading Limited (the 'Applicant') have appointed Point 2 to consider the implications of the full application in respect of the former Canteen Building and Block of the former Nestle Factory development in respect of the quality of light within the development.

Point 2 have reported on the internal quality of light in respect of the various extant planning consents. This was most recently undertaken for a 'drop-in' application (ref. 1331/APP/2019/2314) approved on the 28 June 2021 which included Block H. This approval was for:

> *"Development of 4no. new buildings comprising residential units (in addition to those approved under planning permission ref. 1331/APP/2017/1883) a basement extension to Block B, flexible commercial uses (Class E) and associated landscaping, access, car parking and other engineering works."* (the 'Additional Unit Scheme')."

Following the above consent, a Section 73 application was permitted on 10 November 2021 for:

> *"Section 73 application seeking a variation to Condition 61 (Approved Drawings) of planning permission ref: 1331/APP/2019/1666 dated 11-09-20 (Section 73 application to vary Condition 9 (Residential Condition - Approved Plans) of planning permission ref: 1331/APP/2017/1883 dated 28/06/2018 (Part demolition of existing factory buildings and associated structures, and redevelopment to provide residential dwellings (Use Class C3), office, retail, community and leisure uses (Use Class A1/A3/A4/B1/B8/D1/D2), commercial floorspace (Use Classes B1c/B2/B8) and Data Centre (Sui Generis), amenity and playspace, landscaping, allotments, access, service yards, associated car parking and other engineering works) (as amended by application ref: 1331/APP/2020/50 dated 06/02/20)). The amendments to the approved plan proposed: Alteration to the elevations of Unit 4 involving 4 no. new loading docks (totalling 12 no. with 8 loading docks permitted by planning permission ref: 1331/APP/2017/1883 (as amended)), 1 no. roller door and 2 no. pedestrian doors, and the alteration to the dock pit, and minor alteration to internal layout to office."* (the 'Operational Consent').

These permissions will herein collectively be referred to as the 'Extant Permissions'.

The Applicant is now seeking to approval for the following works:

"Full demolition and redevelopment of former canteen building to provide a new healthcare facility (Class E(e), nursery (Class E(f) and reconfigured residential building (Block H) (Class C3), including associated landscaping, access, car parking and other engineering works." (The 'Proposed Development')"

The drawings at Appendix 1 of this report illustrate the Proposed Development in plan and 3D. The Proposed Development has been shown in turquoise on these drawings and the Extant Permissions are shown in yellow. A revised internal daylight and sunlight assessment has been undertaken to determine whether those alterations will have any material bearing on the daylight availability to the proposed new residential accommodation within the development.

The technical assessments have been undertaken in accordance with the recognised assessment methodologies set out in both the Building Research Establishment document *'Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice, Second Edition'* 2011 ('the BRE Guidelines') and also the British Standard *'BS 8206-2:2008 Lighting for buildings - Part 2: Code of practice for daylighting'* ('the British Standard'). In summary, the BRE Guidelines and British Standard recommend a minimum ADF level of 1% for bedrooms, 1.5% for living rooms and 2% for kitchens. Further methodology on this can be provided on request.

It should be noted that the British Standard BS 8206-2:2008 was officially superseded in May 2019 by the new British Standard EN 17037:2018, which provides a new methodology for assessing daylight within new buildings that focuses on climate-based modelling. Whilst the current BRE Guidelines continue to reference BS8206-2:2008, we have sought the advice of Dr Paul Littlefair (author of the BRE Guidelines) as to how one should approach the assessment of daylighting to new developments in the absence of an updated BRE guideline document (which is understood to be imminent). He advised that whilst the new guidance is not yet published, both methods should be considered acceptable so the ADF methodology has continued to be used. This also makes a direct comparison to the Extant Permissions simpler as the ADF methodology was used for this too.

Throughout the entire design process, Point 2 have worked closely with the project architects to ensure that the internal daylight potential of the proposed dwellings is maximised, wherever possible. Despite this, there will invariably be areas where daylight will be more limited within large regenerative schemes of this nature. LBH previously recognised this and adopted a flexible approach in considering the Extant Permissions' daylight levels as acceptable, despite there being some rooms that were below the typical minimum recommendations. In fact, a flexible and progressive approach to the guidance was agreed in a meeting with LBH held on the 17th November 2017, where it was advised that an ADF of 0.75% would be considered acceptable in respect of the bedrooms, with an ADF of 1.5% accepted in respect of the living kitchen dining rooms (LKDs) and our analysis has been undertaken on this basis.

Summary of Results

The latest tabulated internal daylight results are attached at Appendix 2 of this report. These tabulated results also include the ADF levels for the blocks within the Extant Permissions that immediately neighbour Block H which includes Blocks C4, C5, C6, F1 and B3. In respect of Block H itself, we have also included annotated plans showing the ADF levels within each of the proposed habitable rooms within Appendix 3.

Following discussions with LBH, it has been confirmed that the nursery element of the Canteen Building does not have any specific daylight and sunlight requirements so has not been considered within the analysis.

Results to Neighbouring Blocks of Extant Permissions

We have reassessed a total of 152 rooms within Blocks C4, C5, C6, F1 and B3 that neighbour Block H. For the Extant Permissions each of the rooms assessed would meet the minimum ADF criteria (when applying the revised 1.5% target to the LKD rooms).

With the revised massing for the Canteen Building and Block H in place, each of these rooms will continue to comfortably meet the ADF criteria, experiencing very minimal change from the Extant Permissions. 14 rooms will receive a slightly lower levels of ADF than previously consented (between 0.1-0.2% ADF), however a greater number of rooms (26) will experience a slight increase (between 0.1-0.2% ADF). The remaining 112 rooms experience no change whatsoever.

Therefore, overall and on balance, these neighbouring blocks will receive slightly improved daylight levels than what was previously considered acceptable for the Proposed Development, however in reality these improvements are not material.

Results to Block H

We have analysed the daylight amenity within all of the residential habitable rooms within the Proposed Development that have access to daylight. This totals 82 habitable rooms comprised of 41 bedrooms and 41 living/kitchen/dining rooms (LKDs). It should be noted, that we only assessed alternate floors for the Extant Permissions given the scale of the full redevelopment.

The results of our internal daylight analysis confirm that 78/82 habitable rooms assessed (95.1%) across the Proposed Development will achieve the minimum recommended ADF targets for their relevant room uses. The Proposed Development therefore performs very well and comparably to the other buildings within the masterplan. For example, Block H for the Extant Permissions achieved a 95.7% compliance rate which is almost directly comparable.

The results for the Proposed Development can be broken down into 41/41 bedrooms (100%) and 37/41 LKDs (90.2%).

The four LKDs that fall short of guidance (R3/1651, R6/1651, R3/1652 and R6/1652) are located on the 1st and 2nd floor and face north towards Block F1. They each retain between 1-1.3% ADF so are only slightly below the recommended levels and in excess of some of the levels seen within the Extant Permissions where 30 LKDs received less than 1% ADF. Nevertheless, these levels were seen as acceptable by Officers.

It should also be noted that these four rooms are each overhung by balconies that are directly accessible from the LKDs. These balconies provide generous private external amenity space commensurate with the size of the home and always large enough to comfortably contain a table and chairs. While these generous spaces provide a considerable amenity to residents, they restrict the receipt of daylight to the rooms beneath as the balcony blocks light from the upper parts of the sky. Therefore, balancing the trade-off between these two valuable amenities is a challenge in every medium and high-density urban project as the necessity to provide private external space does often

result in some rooms receiving less than optimal levels of daylighting, albeit the values may be commensurate with what one would expect of large regeneration development such as this.

Overall, it is considered that the design and layout of the Proposed Development has been developed to maximise the daylight potential to the proposed new dwellings. In our opinion there continues to be an excellent rate of compliance that is comparable to the other blocks within the masterplan and within other large regeneration schemes within London.

The technical results have confirmed that the proposed alterations to the Proposed Development do not have a material bearing on the internal daylight position when compared to the Extant Permissions, with a slight overall improvement in the compliance rates that were previously considered acceptable by LBH.

It is our view that the proposed habitable rooms will continue to retain a very good level of compliance with the BRE guidelines and demonstrate that the new dwellings have been designed to harness natural daylight availability wherever possible and that the position should continue to be considered acceptable.

Yours Sincerely

Andrew Clements
Associate Director
For and on behalf of Point 2

Appendix 1: Drawings

Sources:
Point Cloud Data

Site Photos

Received (05/04/22)
F_dMFK_2260_NestleCanteen_A2000, A2001, A2005, A150, A151, A152,153 CAD DRAWINGS.

Key:
Existing Buildings
Proposed Scheme

N

Project: Nestle Site, Hayes

Title: Site Plan
Proposed Scheme05/04/22

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
		BA/NB/EVJ	NS	APRIL 22	P774/148	22

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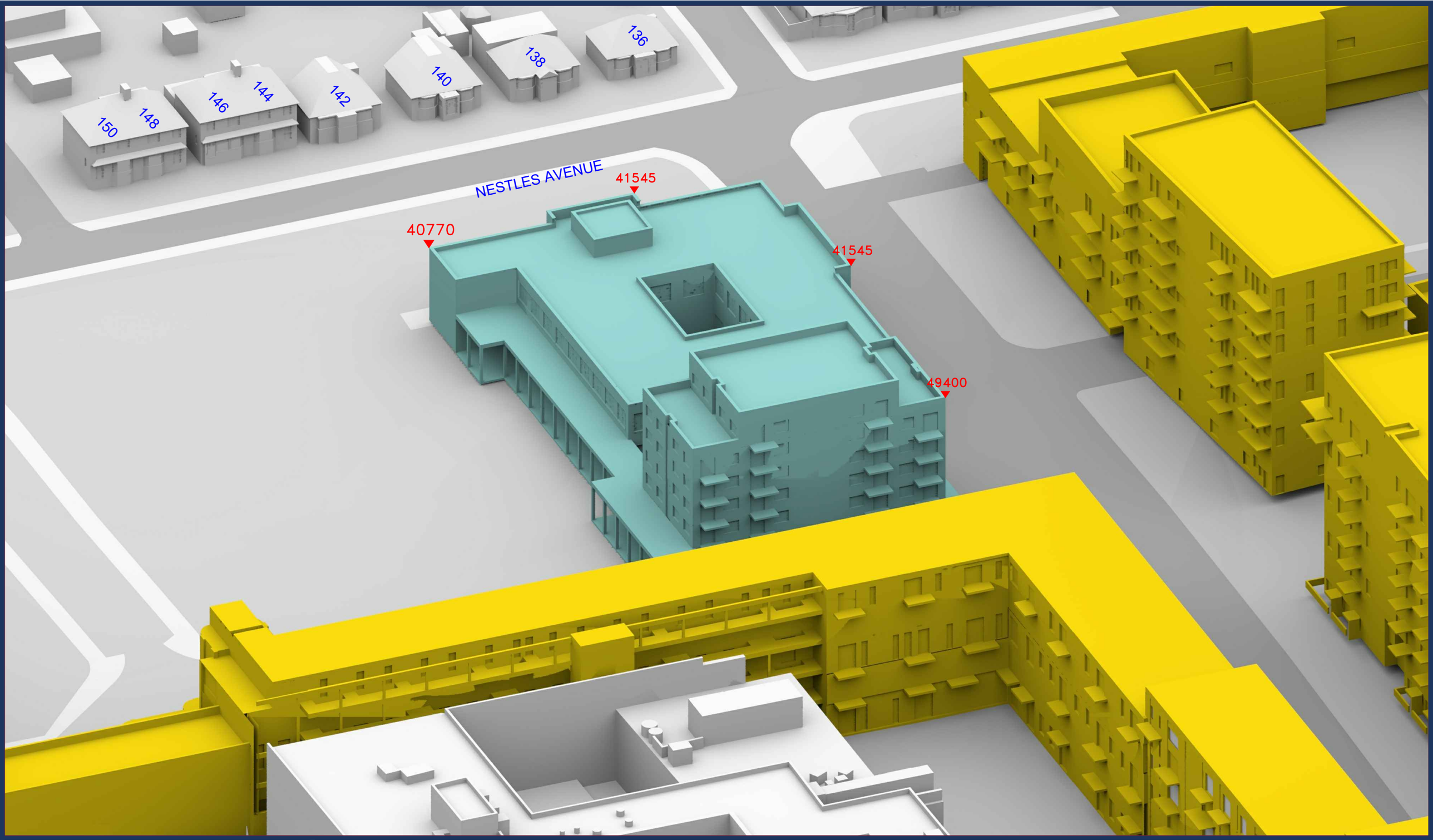

Sources:
Point Cloud Data

Site Photos

Received (05/04/22)
F_dMFK_2260_NestleCanteen_A2000, A2001, A2005, A150, A151, A152,153 CAD DRAWINGS.

Key:
Existing Buildings
Proposed Scheme

All Heights in mm AOD

Project: Nestle Site, Hayes

Title: 3D View
Proposed Scheme 05/04/22

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
		BA/NB/EVJ	NS	APRIL 22	P774/150	22

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Appendix 2: Results

DAYLIGHT ANALYSIS

Nestle Site, Hayes,
PROPOSED SCHEME
RECEIVED 05/04/22
P774 - rel22

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
Block C4					
R3/1400	KD	W2/1400	27.06	1.0	
R3/1400	KD	W4/1400	18.84	0.8	
R3/1400	KD	W5/1400	27.84	1.1	
R3/1400	KD	W6/1400	27.40	0.8	3.7
R4/1400	BEDROOM	W8/1400	28.62	2.9	2.9
R5/1400	BEDROOM	W9/1400	29.44	3.4	3.4
R6/1400	BEDROOM	W10/1400	29.68	3.1	3.1
R7/1400	BEDROOM	W11/1400	29.32	3.4	3.4
R3/1402	LKD	W5/1402	21.96	0.6	
R3/1402	LKD	W6/1402	22.66	0.7	
R3/1402	LKD	W7/1402	14.22	0.6	
R3/1402	LKD	W8/1402	18.73	0.6	
R3/1402	LKD	W9/1402	21.20	0.7	3.2
R4/1402	BEDROOM	W10/1402	28.86	2.9	2.9
R5/1402	BEDROOM	W11/1402	30.36	3.1	3.1
R6/1402	LD	W13/1402	22.92	0.9	
R6/1402	LD	W14/1402	29.25	2.6	
R6/1402	LD	W20/1402	20.93	0.9	4.4
R7/1402	BEDROOM	W15/1402	31.40	3.0	3.0
R8/1402	BEDROOM	W16/1402	15.18	2.0	2.0
R9/1402	LKD	W17/1402	22.74	0.9	
R9/1402	LKD	W18/1402	29.67	1.2	2.1
R10/1402	BEDROOM	W19/1402	29.22	2.1	2.1
R11/1402	LKD	W21/1402	22.34	1.2	
R11/1402	LKD	W34/1402	24.46	0.9	2.1
R3/1404	LKD	W5/1404	26.62	0.7	
R3/1404	LKD	W6/1404	27.08	0.8	
R3/1404	LKD	W7/1404	17.23	0.7	
R3/1404	LKD	W8/1404	21.65	0.7	
R3/1404	LKD	W9/1404	24.12	0.8	3.7

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DAYLIGHT ANALYSIS

Nestle Site, Hayes,
PROPOSED SCHEME
RECEIVED 05/04/22
P774 - rel22

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R4/1404	BEDROOM	W10/1404	31.76	3.1	3.1
R5/1404	BEDROOM	W11/1404	33.18	3.4	3.4
R6/1404	LD	W13/1404	25.76	1.0	
R6/1404	LD	W14/1404	32.00	2.8	
R6/1404	LD	W20/1404	23.72	1.0	4.8
R7/1404	BEDROOM	W15/1404	33.86	3.2	3.2
R8/1404	BEDROOM	W16/1404	17.56	2.2	2.2
R9/1404	LKD	W17/1404	25.17	1.0	
R9/1404	LKD	W18/1404	32.13	1.3	2.3
R10/1404	BEDROOM	W19/1404	31.40	2.3	2.3
R11/1404	LKD	W21/1404	24.65	1.3	
R11/1404	LKD	W34/1404	26.77	0.9	2.2
R3/1406	LKD	W6/1406	31.54	0.8	
R3/1406	LKD	W7/1406	31.75	1.0	
R3/1406	LKD	W8/1406	19.42	0.8	
R3/1406	LKD	W9/1406	23.88	0.7	
R3/1406	LKD	W10/1406	26.43	0.9	4.2
R4/1406	BEDROOM	W11/1406	34.09	3.2	3.2
R5/1406	BEDROOM	W12/1406	35.38	3.5	3.5
R6/1406	LD	W13/1406	27.93	1.0	
R6/1406	LD	W14/1406	25.79	1.0	
R6/1406	LD	W15/1406	34.18	2.9	4.9
R7/1406	BEDROOM	W16/1406	35.69	3.4	3.4
R8/1406	BEDROOM	W17/1406	19.12	2.3	2.3
R9/1406	LKD	W18/1406	26.87	1.0	
R9/1406	LKD	W19/1406	33.88	1.3	2.3
R10/1406	BEDROOM	W20/1406	33.06	2.3	2.3
R11/1406	LKD	W21/1406	26.11	1.2	
R11/1406	LKD	W22/1406	28.09	0.8	

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Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R11/1406	LKD	W23/1406	39.60	1.9	
R11/1406	LKD	W24/1406	39.28	2.0	5.9
R3/1408	LKD	W6/1408	35.74	0.9	
R3/1408	LKD	W7/1408	35.80	1.1	
R3/1408	LKD	W8/1408	39.48	1.2	
R3/1408	LKD	W9/1408	39.49	1.1	
R3/1408	LKD	W10/1408	39.50	1.2	5.5
R4/1408	BEDROOM	W11/1408	39.51	3.5	3.5
R5/1408	BEDROOM	W12/1408	39.53	3.7	3.7
R6/1408	LD	W13/1408	39.53	1.4	
R6/1408	LD	W14/1408	39.53	1.5	
R6/1408	LD	W15/1408	39.54	3.3	6.2
R7/1408	BEDROOM	W16/1408	39.56	3.6	3.6
R8/1408	BEDROOM	W17/1408	39.57	3.5	3.5
R9/1408	LKD	W18/1408	39.57	1.4	
R9/1408	LKD	W19/1408	39.57	1.4	2.8
R10/1408	BEDROOM	W20/1408	39.58	2.6	2.6
R11/1408	LKD	W21/1408	39.57	1.8	
R11/1408	LKD	W22/1408	39.57	1.2	
R11/1408	LKD	W23/1408	39.47	1.9	
R11/1408	LKD	W24/1408	39.54	2.0	6.9
Block C5					
R1/1410	BEDROOM	W1/1410	29.62	3.4	3.4
R2/1410	BEDROOM	W2/1410	31.34	3.5	3.5
R3/1410	BEDROOM	W3/1410	31.59	3.6	3.6
R4/1410	BEDROOM	W4/1410	32.46	3.9	3.9
R1/1412	BEDROOM	W1/1412	33.38	3.2	3.2
R2/1412	BEDROOM	W2/1412	34.65	2.8	2.8
R3/1412	BEDROOM	W3/1412	31.09	2.3	2.3

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R4/1412	LKD	W4/1412	21.73	0.7	
R4/1412	LKD	W5/1412	24.63	0.8	1.5
R5/1412	BEDROOM	W6/1412	35.31	3.8	3.8
R6/1412	LKD	W7/1412	23.90	2.3	2.3
R7/1412	BEDROOM	W9/1412	35.25	3.0	3.0
R8/1412	LKD	W8/1412	24.09	2.5	2.5
R9/1412	BEDROOM	W12/1412	34.68	3.3	3.3
R10/1412	BEDROOM	W13/1412	18.62	2.1	2.1
R11/1412	LKD	W14/1412	23.16	0.9	
R11/1412	LKD	W15/1412	26.11	0.9	1.8
R1/1414	BEDROOM	W1/1414	35.61	3.3	3.3
R2/1414	BEDROOM	W2/1414	37.60	2.9	2.9
R3/1414	BEDROOM	W3/1414	38.09	2.6	2.6
R4/1414	LKD	W4/1414	38.38	1.1	
R4/1414	LKD	W5/1414	38.44	1.2	2.3
R5/1414	BEDROOM	W6/1414	38.78	4.1	4.1
R6/1414	LKD	W7/1414	38.78	2.6	
R6/1414	LKD	W9/1414	39.61	1.2	
R6/1414	LKD	W10/1414	39.61	1.3	
R6/1414	LKD	W11/1414	39.61	1.9	7.0
Block C6					
R7/1230	LKD	W15/1230	27.74	0.9	
R7/1230	LKD	W18/1230	37.07	3.6	
R7/1230	LKD	W27/1230	27.37	0.6	
R7/1230	LKD	W39/1230	20.64	0.8	5.9
R1/1232	BEDROOM	W5/1232	36.67	3.8	3.8
R2/1232	LKD	W6/1232	38.43	1.2	
R2/1232	LKD	W7/1232	36.90	0.5	

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Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R2/1232	LKD	W27/1232	28.32	2.3	4.0
Block F1					
R25/2030	LKD	W25/2030	27.61	4.3	4.3
R26/2030	LKD	W26/2030	33.45	3.1	
R26/2030	LKD	W27/2030	34.07	3.1	6.2
R27/2030	LKD	W28/2030	34.70	7.4	7.4
R28/2030	LKD	W29/2030	34.58	7.4	7.4
R29/2030	LKD	W30/2030	34.06	3.1	
R29/2030	LKD	W31/2030	33.74	3.1	6.2
R30/2030	LKD	W32/2030	33.62	7.2	7.2
R31/2030	LKD	W33/2030	32.74	7.0	7.0
R32/2030	LKD	W34/2030	31.50	2.9	
R32/2030	LKD	W35/2030	30.83	2.8	5.7
R33/2030	LKD	W36/2030	29.89	6.5	6.5
R34/2030	LKD	W37/2030	27.81	6.2	6.2
R35/2030	BEDROOM	W38/2030	25.60	3.8	3.8
R36/2030	BEDROOM	W39/2030	24.27	4.8	4.8
R37/2030	LKD	W40/2030	22.63	4.7	4.7
R38/2030	BEDROOM	W41/2030	20.91	3.3	3.3
R39/2030	BEDROOM	W42/2030	20.28	4.4	4.4
R40/2030	LKD	W43/2030	19.84	1.7	
R40/2030	LKD	W44/2030	20.03	1.8	3.5
R41/2030	BEDROOM	W45/2030	23.38	4.8	4.8
R42/2030	BEDROOM	W46/2030	22.65	1.8	
R42/2030	BEDROOM	W47/2030	22.94	2.7	4.5
R43/2030	LKD	W48/2030	24.59	2.6	

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R43/2030	LKD	W49/2030	19.95	3.6	
R43/2030	LKD	W50/2030	18.86	1.4	7.6
R44/2030	BEDROOM	W51/2030	18.29	3.3	3.3
R33/2032	LKD	W33/2032	15.90	3.5	
R33/2032	LKD	W34/2032	21.48	0.8	4.3
R34/2032	LKD	W35/2032	19.37	0.7	
R34/2032	LKD	W36/2032	31.87	5.1	5.8
R35/2032	LKD	W37/2032	35.66	6.8	6.8
R36/2032	LKD	W38/2032	36.17	2.9	
R36/2032	LKD	W39/2032	36.08	2.9	5.8
R37/2032	LKD	W40/2032	36.55	6.9	6.9
R38/2032	LKD	W41/2032	36.48	6.9	6.9
R39/2032	LKD	W42/2032	36.01	2.9	
R39/2032	LKD	W43/2032	35.86	2.9	5.8
R40/2032	LKD	W44/2032	35.90	6.8	6.8
R41/2032	LKD	W45/2032	35.39	6.7	6.7
R42/2032	LKD	W46/2032	34.50	2.8	
R42/2032	LKD	W47/2032	34.13	2.7	5.5
R43/2032	LKD	W48/2032	33.61	6.4	6.4
R44/2032	LKD	W49/2032	32.33	6.2	6.2
R45/2032	BEDROOM	W50/2032	30.81	4.0	4.0
R46/2032	BEDROOM	W51/2032	29.96	5.0	5.0
R47/2032	LKD	W52/2032	28.93	5.0	5.0
R48/2032	BEDROOM	W53/2032	27.65	3.7	3.7
R49/2032	BEDROOM	W54/2032	27.20	4.7	4.7
R50/2032	LKD	W55/2032	26.82	1.8	
R50/2032	LKD	W56/2032	26.97	1.8	3.6

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R51/2032	BEDROOM	W57/2032	27.31	5.3	5.3
R52/2032	BEDROOM	W58/2032	26.05	2.2	2.2
R53/2032	LKD	W59/2032	28.49	3.6	3.6
R54/2032	BEDROOM	W60/2032	29.12	5.1	5.1
R55/2032	BEDROOM	W61/2032	27.94	2.0	
R55/2032	BEDROOM	W62/2032	28.44	2.9	4.9
R56/2032	LKD	W63/2032	29.90	2.7	
R56/2032	LKD	W64/2032	24.16	3.7	
R56/2032	LKD	W65/2032	23.09	1.5	7.9
R57/2032	BEDROOM	W66/2032	22.56	3.1	3.1
R30/2034	LKD	W33/2034	33.10	1.1	
R30/2034	LKD	W34/2034	36.50	1.8	
R30/2034	LKD	W35/2034	38.20	1.8	4.7
R31/2034	LKD	W36/2034	38.71	1.6	
R31/2034	LKD	W37/2034	39.01	1.6	
R31/2034	LKD	W38/2034	39.14	1.6	4.8
R32/2034	LKD	W39/2034	39.20	1.6	
R32/2034	LKD	W40/2034	39.23	1.6	
R32/2034	LKD	W41/2034	39.23	1.6	4.8
R33/2034	LKD	W42/2034	39.21	1.6	
R33/2034	LKD	W43/2034	39.18	1.6	
R33/2034	LKD	W44/2034	39.15	1.6	4.8
R34/2034	LKD	W45/2034	39.10	1.6	
R34/2034	LKD	W46/2034	39.05	1.6	
R34/2034	LKD	W47/2034	38.97	1.6	4.8
R35/2034	LKD	W48/2034	38.90	1.6	
R35/2034	LKD	W49/2034	38.80	1.6	
R35/2034	LKD	W50/2034	38.70	1.6	4.8
R36/2034	LKD	W51/2034	38.57	1.1	
R36/2034	LKD	W52/2034	38.45	1.1	
R36/2034	LKD	W53/2034	38.27	1.1	
R36/2034	LKD	W54/2034	38.14	1.1	4.4

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R37/2034	BEDROOM	W55/2034	37.93	3.1	3.1
R38/2034	BEDROOM	W56/2034	37.80	3.0	
R38/2034	BEDROOM	W57/2034	37.61	1.2	4.2
R39/2034	BEDROOM	W58/2034	37.44	4.1	4.1
R40/2034	LKD	W59/2034	37.18	1.3	
R40/2034	LKD	W60/2034	36.98	1.2	2.5
R41/2034	BEDROOM	W61/2034	36.85	3.1	3.1
R42/2034	BEDROOM	W62/2034	36.72	2.5	
R42/2034	BEDROOM	W63/2034	36.70	2.5	5.0
R43/2034	BEDROOM	W64/2034	36.73	3.3	3.3
R44/2034	LKD	W65/2034	36.72	1.0	
R44/2034	LKD	W66/2034	36.72	1.0	2.0
R45/2034	BEDROOM	W67/2034	36.70	1.1	
R45/2034	BEDROOM	W68/2034	36.69	2.9	4.0
R46/2034	LKD	W69/2034	36.63	0.9	
R46/2034	LKD	W70/2034	36.55	1.0	
R46/2034	LKD	W71/2034	31.02	0.4	
R46/2034	LKD	W72/2034	30.80	1.0	
R46/2034	LKD	W73/2034	30.51	0.9	
R46/2034	LKD	W74/2034	29.99	0.4	4.6
Block H					
R1/1651	LKD	W1/1651	25.28	1.5	
R1/1651	LKD	W2/1651	25.43	1.5	
R1/1651	LKD	W3/1651	12.59	0.9	3.9
R2/1651	BEDROOM	W4/1651	18.72	2.5	2.5
R3/1651	LKD	W5/1651	11.92	1.0	1.0
R4/1651	BEDROOM	W6/1651	19.96	2.6	2.6
R5/1651	BEDROOM	W7/1651	19.94	2.5	2.5
R6/1651	LKD	W8/1651	12.07	1.0	1.0

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R7/1651	BEDROOM	W9/1651	18.68	2.5	2.5
R8/1651	LKD	W10/1651	12.53	0.9	
R8/1651	LKD	W11/1651	34.49	1.9	
R8/1651	LKD	W12/1651	34.98	1.9	4.7
R9/1651	LKD	W13/1651	35.59	2.0	
R9/1651	LKD	W14/1651	35.94	2.0	
R9/1651	LKD	W15/1651	22.83	1.7	5.7
R10/1651	BEDROOM	W16/1651	28.22	3.4	3.4
R11/1651	LKD	W17/1651	20.19	1.8	1.8
R12/1651	BEDROOM	W18/1651	26.61	3.3	3.3
R13/1651	LKD	W19/1651	19.01	1.7	1.7
R14/1651	BEDROOM	W20/1651	27.00	3.3	3.3
R15/1651	BEDROOM	W21/1651	27.02	3.3	3.3
R16/1651	LKD	W22/1651	18.55	1.6	1.6
R17/1651	BEDROOM	W23/1651	25.77	3.2	3.2
R18/1651	LKD	W24/1651	18.68	1.5	
R18/1651	LKD	W25/1651	25.35	1.5	
R18/1651	LKD	W26/1651	25.27	1.5	4.5
R1/1652	LKD	W1/1652	27.28	1.6	
R1/1652	LKD	W2/1652	27.39	1.6	
R1/1652	LKD	W3/1652	15.52	1.2	4.4
R2/1652	BEDROOM	W4/1652	21.65	2.8	2.8
R3/1652	LKD	W5/1652	15.03	1.3	1.3
R4/1652	BEDROOM	W6/1652	23.02	2.8	2.8
R5/1652	BEDROOM	W7/1652	23.23	2.8	2.8
R6/1652	LKD	W8/1652	15.38	1.3	1.3
R7/1652	BEDROOM	W9/1652	22.00	2.8	2.8

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R8/1652	LKD	W10/1652	15.78	1.2	
R8/1652	LKD	W11/1652	35.86	2.0	
R8/1652	LKD	W12/1652	36.25	2.0	5.2
R9/1652	LKD	W13/1652	36.73	2.0	
R9/1652	LKD	W14/1652	36.99	2.0	
R9/1652	LKD	W15/1652	26.35	1.9	5.9
R10/1652	BEDROOM	W16/1652	32.27	3.8	3.8
R11/1652	LKD	W17/1652	25.70	2.1	2.1
R12/1652	BEDROOM	W18/1652	32.08	3.8	3.8
R13/1652	LKD	W19/1652	25.41	2.1	2.1
R14/1652	BEDROOM	W20/1652	32.94	3.8	3.8
R15/1652	BEDROOM	W21/1652	32.99	3.8	3.8
R16/1652	LKD	W22/1652	25.27	2.1	2.1
R17/1652	BEDROOM	W23/1652	31.75	3.8	3.8
R18/1652	LKD	W24/1652	25.02	1.8	
R18/1652	LKD	W25/1652	27.58	1.6	
R18/1652	LKD	W26/1652	27.37	1.6	5.0
R1/1653	LKD	W1/1653	29.28	1.6	
R1/1653	LKD	W2/1653	29.35	1.7	
R1/1653	LKD	W3/1653	18.45	1.4	4.7
R2/1653	BEDROOM	W4/1653	25.60	3.1	3.1
R3/1653	LKD	W5/1653	18.44	1.6	1.6
R4/1653	BEDROOM	W6/1653	26.31	3.1	3.1
R5/1653	BEDROOM	W7/1653	26.64	3.2	3.2
R6/1653	LKD	W8/1653	18.95	1.6	1.6
R7/1653	BEDROOM	W9/1653	26.25	3.1	3.1
R8/1653	LKD	W10/1653	19.14	1.4	

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R8/1653	LKD	W11/1653	37.16	2.0	
R8/1653	LKD	W12/1653	37.43	2.1	5.5
R9/1653	LKD	W13/1653	37.76	2.1	
R9/1653	LKD	W14/1653	37.95	2.1	
R9/1653	LKD	W15/1653	26.83	1.9	6.1
R10/1653	BEDROOM	W16/1653	33.62	3.8	3.8
R11/1653	LKD	W17/1653	26.60	2.1	2.1
R12/1653	BEDROOM	W18/1653	32.69	3.8	3.8
R13/1653	LKD	W19/1653	26.29	2.1	2.1
R14/1653	BEDROOM	W20/1653	33.63	3.9	3.9
R15/1653	BEDROOM	W21/1653	33.65	3.9	3.9
R16/1653	LKD	W22/1653	26.39	2.1	2.1
R17/1653	BEDROOM	W23/1653	33.24	3.8	3.8
R18/1653	LKD	W24/1653	26.05	1.9	
R18/1653	LKD	W25/1653	29.63	1.7	
R18/1653	LKD	W26/1653	29.42	1.7	5.3
R1/1654	LKD	W1/1654	31.28	1.7	
R1/1654	LKD	W2/1654	31.32	1.7	
R1/1654	LKD	W3/1654	33.49	2.4	5.8
R2/1654	BEDROOM	W4/1654	33.30	3.7	3.7
R3/1654	LKD	W5/1654	21.81	1.8	1.8
R4/1654	BEDROOM	W6/1654	30.30	3.4	3.4
R5/1654	BEDROOM	W7/1654	30.68	3.5	3.5
R6/1654	LKD	W8/1654	22.39	1.8	1.8
R7/1654	BEDROOM	W9/1654	33.99	3.8	3.8
R8/1654	LKD	W10/1654	34.30	2.5	
R8/1654	LKD	W11/1654	38.37	2.1	
R8/1654	LKD	W12/1654	38.53	2.1	6.7

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R9/1654	LKD	W13/1654	38.72	2.1	
R9/1654	LKD	W14/1654	38.82	2.1	
R9/1654	LKD	W15/1654	39.28	2.8	7.0
R10/1654	BEDROOM	W16/1654	38.54	4.2	4.2
R11/1654	LKD	W17/1654	27.04	2.1	2.1
R12/1654	BEDROOM	W18/1654	34.33	3.8	3.8
R13/1654	LKD	W19/1654	26.85	2.1	2.1
R14/1654	BEDROOM	W20/1654	34.92	3.9	3.9
R15/1654	BEDROOM	W21/1654	34.93	3.9	3.9
R16/1654	LKD	W22/1654	26.83	2.1	2.1
R17/1654	BEDROOM	W23/1654	38.04	4.2	4.2
R18/1654	LKD	W24/1654	38.60	2.8	
R18/1654	LKD	W25/1654	31.67	1.8	
R18/1654	LKD	W26/1654	31.45	1.8	6.4
R1/1655	LKD	W1/1655	34.30	1.8	
R1/1655	LKD	W2/1655	34.25	1.8	
R1/1655	LKD	W3/1655	36.40	2.4	6.0
R2/1655	BEDROOM	W4/1655	36.78	4.0	4.0
R3/1655	BEDROOM	W5/1655	37.08	4.0	4.0
R4/1655	LKD	W6/1655	36.89	2.4	
R4/1655	LKD	W7/1655	39.32	2.0	
R4/1655	LKD	W8/1655	39.28	2.0	6.4
R5/1655	LKD	W9/1655	39.37	2.1	
R5/1655	LKD	W11/1655	39.45	2.7	4.8
R6/1655	BEDROOM	W12/1655	39.45	4.3	4.3
R7/1655	LKD	W13/1655	39.39	3.1	3.1
R8/1655	BEDROOM	W14/1655	39.38	4.3	4.3

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Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R9/1655	BEDROOM	W15/1655	39.34	4.3	4.3
R10/1655	LKD	W16/1655	39.25	2.6	
R10/1655	LKD	W17/1655	34.52	1.8	
R10/1655	LKD	W18/1655	34.73	1.8	6.2
Block B3					
R10/1130	BEDROOM	W10/1130	17.68	2.5	2.5
R11/1130	BEDROOM	W11/1130	24.38	3.0	3.0
R12/1130	BEDROOM	W12/1130	21.61	1.9	1.9
R13/1130	BEDROOM	W13/1130	18.61	2.1	2.1
R14/1130	LKD	W14/1130	16.69	1.7	1.7
R24/1132	LKD	W23/1132	16.90	2.1	2.1
R25/1132	BEDROOM	W24/1132	29.26	2.3	2.3
R26/1132	LKD	W25/1132	30.38	1.1	
R26/1132	LKD	W26/1132	12.79	1.1	
R26/1132	LKD	W27/1132	23.72	1.0	3.2
R27/1132	BEDROOM	W28/1132	22.80	1.9	1.9
R28/1132	LKD	W29/1132	10.74	0.9	
R28/1132	LKD	W30/1132	9.70	0.7	
R28/1132	LKD	W31/1132	10.27	0.4	2.0
R24/1134	LKD	W23/1134	22.09	2.7	2.7
R25/1134	BEDROOM	W24/1134	34.03	2.6	2.6
R26/1134	LKD	W25/1134	34.69	1.3	
R26/1134	LKD	W26/1134	14.91	1.2	
R26/1134	LKD	W27/1134	27.67	1.1	3.6
R27/1134	BEDROOM	W28/1134	26.84	2.1	2.1
R28/1134	LKD	W29/1134	13.61	1.0	
R28/1134	LKD	W30/1134	13.46	0.9	
R28/1134	LKD	W31/1134	13.79	0.5	2.4

Room	Room Use	Window	VSC(%)	ADF(%)	Total ADF(%)
R17/1136	BEDROOM	W28/1136	31.48	2.1	2.1
R18/1136	LKD	W29/1136	17.99	1.3	
R18/1136	LKD	W30/1136	26.95	1.5	
R18/1136	LKD	W31/1136	26.82	0.9	3.7
R24/1136	LKD	W23/1136	26.10	3.0	3.0
R25/1136	BEDROOM	W24/1136	36.13	2.8	2.8
R26/1136	LKD	W25/1136	21.97	0.9	
R26/1136	LKD	W26/1136	17.60	1.3	
R26/1136	LKD	W27/1136	32.25	1.2	3.4
R17/1138	BEDROOM	W28/1138	38.23	4.0	4.0
R18/1138	LKD	W29/1138	38.11	3.0	
R18/1138	LKD	W30/1138	36.24	2.4	5.4
R24/1138	LKD	W23/1138	39.52	4.3	4.3
R25/1138	BEDROOM	W24/1138	39.53	2.9	2.9
R26/1138	LKD	W25/1138	39.54	1.6	
R26/1138	LKD	W26/1138	38.36	2.7	
R26/1138	LKD	W27/1138	38.34	1.8	6.1

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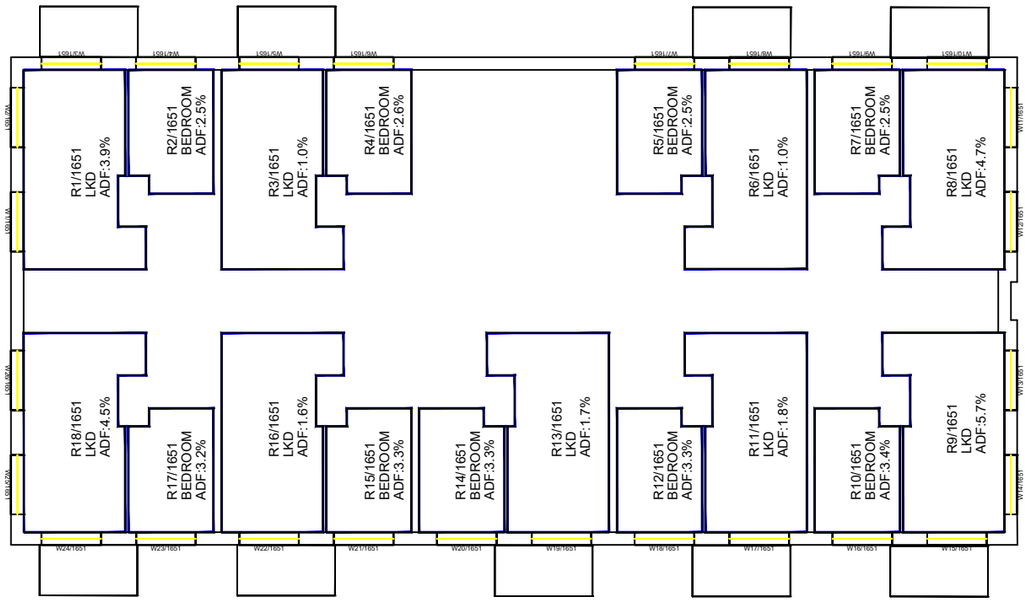

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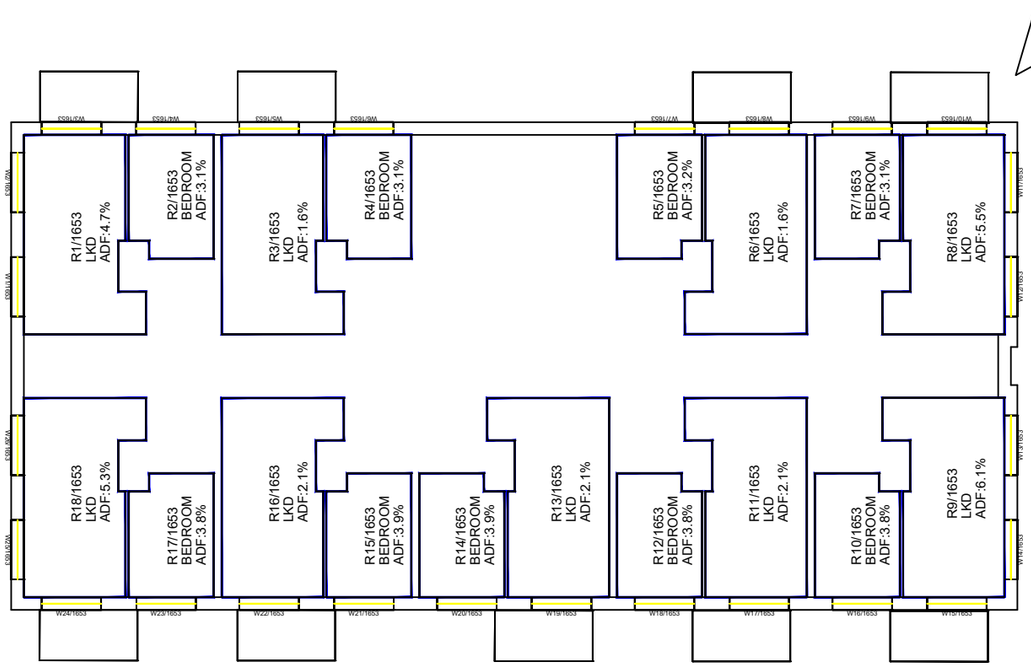

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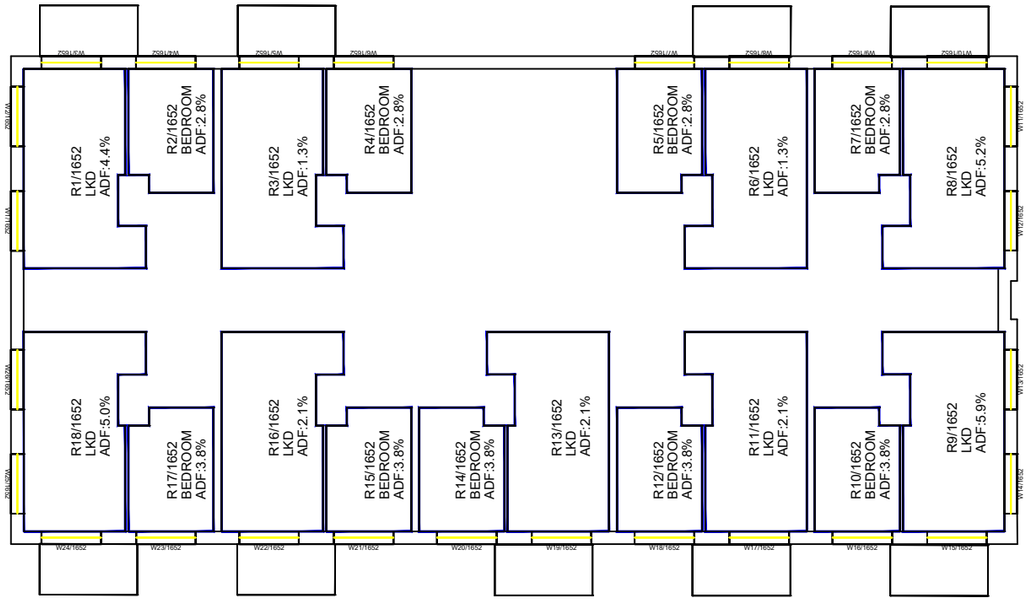

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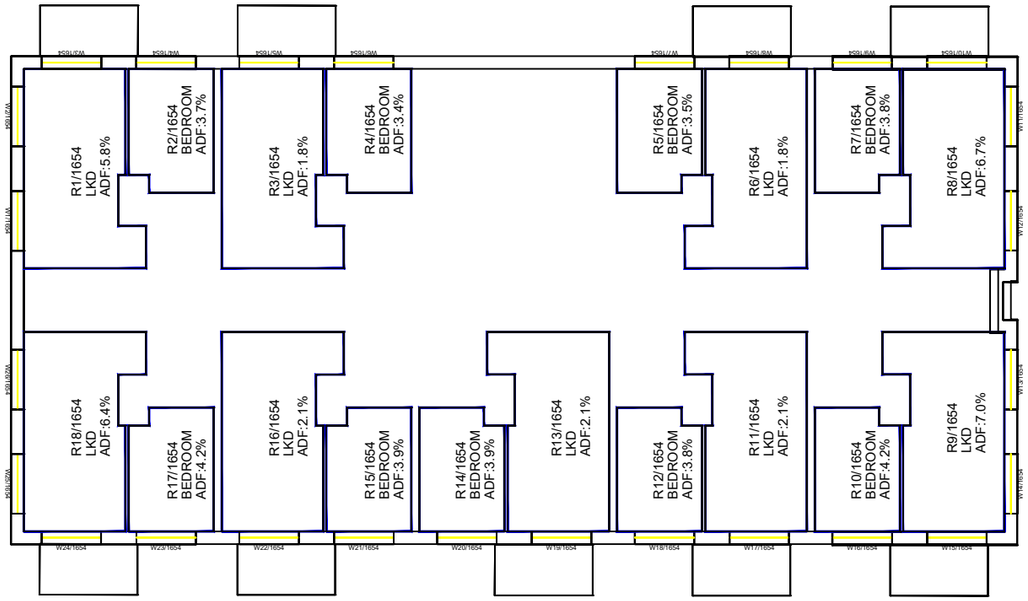

FOURTH FLOOR

Sources:
Point Cloud Data

Site Photos

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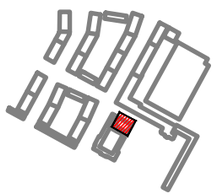

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Scheme Confirmed:

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Date: APRIL 22

Dwg No: P774/INT/190

Rel: 22

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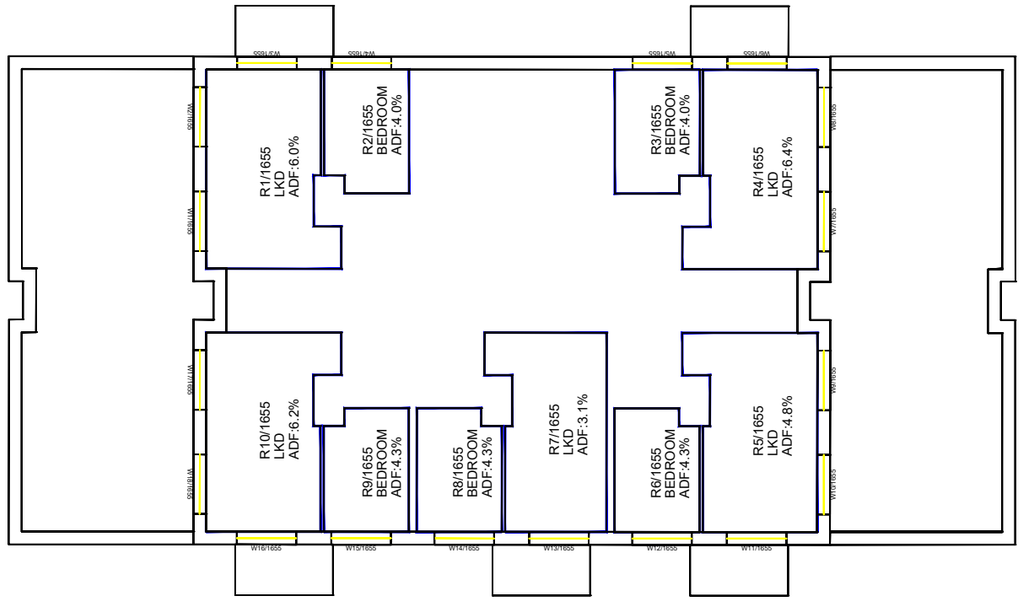

FIFTH FLOOR

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Sources:
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Site Photos

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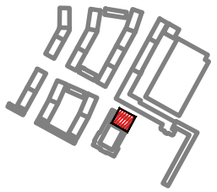

Project: Nestle Site, Hayes

Title: Room Layouts and ADF Results
Proposed Scheme
Block H

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
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