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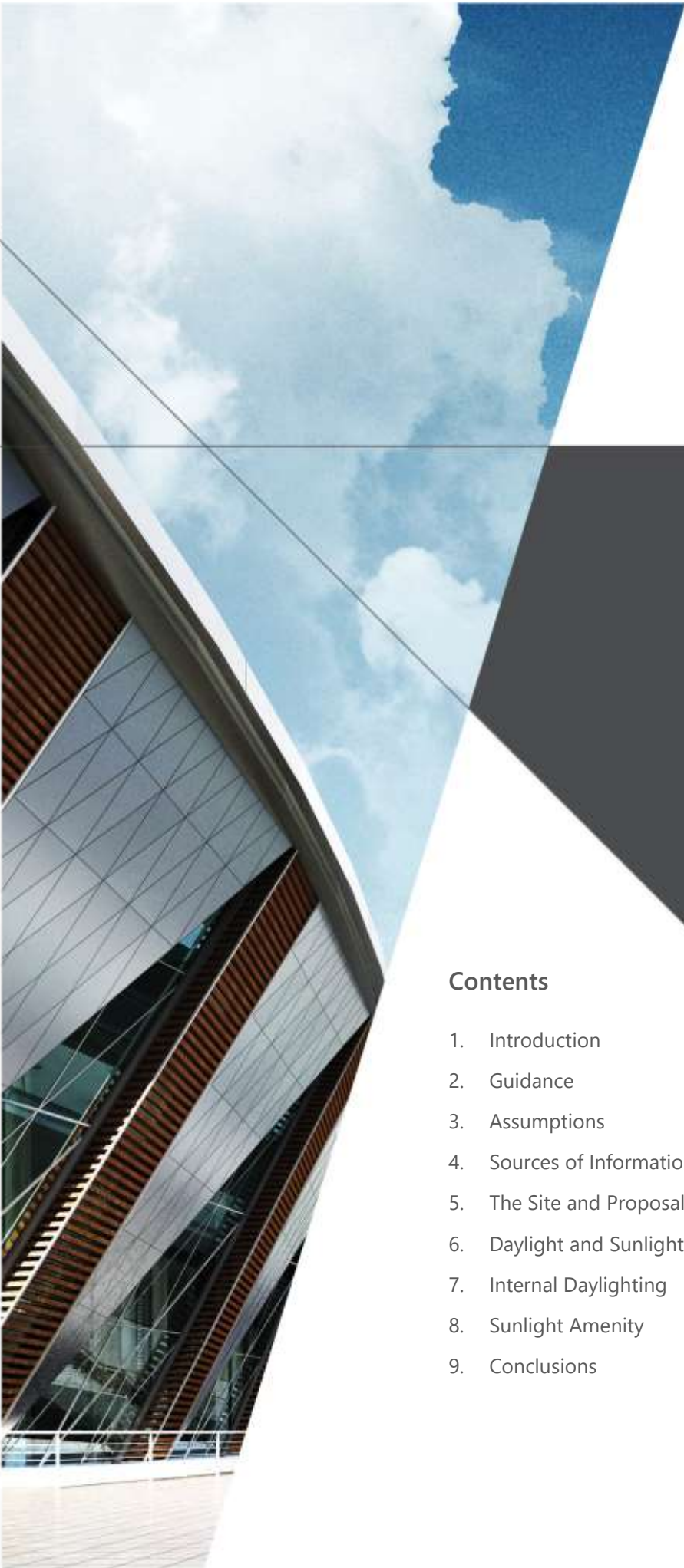
DAYLIGHT & SUNLIGHT REPORT

9 Nestles Avenue

Hayes

UB3 4SA

July 2020

A photograph of a modern building's facade, featuring a series of horizontal wooden slats and large glass panels, set against a blue sky with white clouds. The image is partially obscured by a large, dark grey geometric shape on the right side of the page.

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1. Introduction

- 1.1. This practice has been instructed to provide an assessment of the daylight & sunlight implications of the proposed new development at the 9 Nestles Avenue, Hayes. This report is based on the August 2020 proposals as prepared by Tate Hindle Architects.
- 1.2. The proposed development comprises:
'demolition of existing building and redevelopment to provide a building up to 11 storeys comprising 103 residential units, with associated landscaping, access, car parking and cycle parking.'
- 1.3. The methodology and criteria used for these assessments is provided by the Building Research Establishments guidance 'Site layout planning for daylight and sunlight: a guide to good practice' (BRE, 2011) and the British Standard document BS8206 Pt2.

2. Guidance

Daylight & sunlight for planning

Site layout planning for daylight and sunlight: a guide to good practice, BRE 2011

- 2.1. This document follows from previous guidance produced by Her Majesty's Stationary Office (HMSO) on daylight and sunlight in the built environment and is now the accepted methodology used by local authorities for assessing daylight and sunlight in relation to new developments. It provides methods for calculating the impact to daylight and sunlight within existing neighbouring buildings and for assessing the provision of amenity provided within new buildings.
- 2.2. The guidance details three methods for calculating daylight; the Vertical Sky Component (VSC), the No-Sky Line Contour (NSC) and the Average Daylight Factor (ADF). The first two assessments are primarily used for the assessment of existing buildings, whilst the ADF test is used for the assessment of new buildings. The assessment of sunlight within both existing and new buildings is undertaken using the Annual Probable Sunlight Hours (APSH) test.

Daylight and Sunlight to existing buildings

- 2.3. The Vertical Sky Component (VSC) test measures the amount of sky that is visible to a specific point on the outside of a property, usually a window, which is directly related to the amount of daylight that can be received. It is measured on the outside face of the external walls, again usually at the centre point of a window.
- 2.4. The No Sky-Line Contour (NSC) test calculates the distribution of daylight within rooms by determining the area of the 'working plane' which can and cannot receive a direct view of the sky and hence 'sky light'. The working plane height is set at

850mm above floor level within a residential property and 700mm for non-residential.

- 2.5. For buildings that neighbour a new development, the guidance suggests that daylight will be adversely affected by the development, if either; its windows achieve a VSC below 27% and have their levels reduced to less than 0.8 times their former value, or the levels of NSC within rooms are reduced to less than 0.8 times their former values.
- 2.6. For sunlight the APSH test calculates the percentage of statistically probable hours of sunlight received by each window in both the summer and winter months. March 21st through to September 21st is considered to be the summer period while September 21st to March 21st is considered the winter period. For properties surrounding a new development, only those windows oriented within 90° of due south and which overlook the site of the proposal are relevant for assessment.
- 2.7. The BRE guidelines suggest that the main living rooms should achieve at least 25% of annual sunlight hours, with 5% during the winter period. For neighbouring buildings, the guide suggests that occupiers will notice the loss of sunlight if the APSH to main living rooms is both less than 25% annually (with 5% during winter) and that the amount of sunlight, following the proposed development, is reduced to less than 0.8 times its former value.

Daylight to new buildings

- 2.8. The ADF test calculates the average illuminance within a room as a proportion of the illuminance available to an unobstructed point outdoors, under a sky of known luminance and luminance distribution. This is the most detailed of the daylight calculations and considers the physical nature of the rooms and windows, including; window transmittance, window size, room size, angle of external obstruction and room surface reflectivity. Some of the inputs can be accurately quantified (room size, angle of obstruction, window size), but some need to be based upon assumptions. These are as follows:-

Internal reflectance of rooms	Based on finishes described in the assumptions section of this report
Window transmittance	Double Glazed = 0.68
	Single glazed = 0.8

- 2.9. The guidance suggests that, for new dwellings provided with electric lighting, kitchens should attain at least 2% ADF, living and dining rooms at least 1.5% ADF and bedrooms at least 1% ADF.
- 2.10. The proposal and consented neighbouring development includes a number of combined living / kitchen / dining rooms (L/K/D's). Whilst there is an aspiration for

such multi-use rooms to meet the higher 'kitchen' target the spaces are inherently deeper than a standalone space. As such application of the living room target of 1.5% has been applied to these spaces.

Sunlight to gardens and outdoor spaces

- 2.11. The impact to overshadowing and the provision of well sunlit open spaces is assessed using the Sunlight Amenity test. This looks at the proportion of an amenity area that receives at least 2 hours of sun on the 21st of March in the present condition and compares this with the proportion of the area that receives at least 2 hours of sun on the 21st of March with the proposal in place.
- 2.12. For an amenity to be considered well sunlit throughout the year, the BRE guide suggests that at least 50% of the space should enjoy at least 2 hours of direct sunlight on March 21st or remain within 0.8 times the former value prior to development.

3. Methodology and application

Scope of the assessments

- 3.1. The BRE guidelines state that when assessing any potential effects on surrounding sensitive receptors, only those windows and rooms that have a 'reasonable expectation' of daylight and sunlight need to be considered. Paragraph 2.2.2 of the guidelines clarifies what are considered sensitive receptors with a 'reasonable expectation' of daylight and sunlight as follows:

"The guidelines given here are intended for use for rooms in adjoining dwellings where daylight is required, including living rooms, kitchens and bedrooms. Windows to bathrooms, toilets, storerooms, circulation areas and garages need not be analysed. The guidelines may also be applied to any existing non-domestic building where the occupants have a reasonable expectation of daylight; this would normally include schools, hospitals, hotels and hostels, small workshops and some offices."

Commercial properties are not treated as having a reasonable expectation of daylight or sunlight. This is because they are generally designed to rely on electric lighting to provide sufficient light by which to work, rather than natural daylight or sunlight. No further assessment has therefore been carried out in relation to commercial properties in the vicinity of the proposed development.

Policy Context

- 3.2. It is important to note that within urban areas achieving good levels of daylight and sunlight in accordance with the BRE guidelines, can be weighed in the balance against other beneficial design factors.
- 3.3. The opening paragraphs of the BRE guidelines state: -
- 3.4. *"The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and the document should*

not be seen as an instrument of planning policy. Its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly because natural lighting is only one of many factors in site layout design. In special circumstances the developer or planning authority may wish to use different target values. For example, in a historic city centre a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings”.

- 3.5. The targets set out in the BRE document are very much ‘guidelines’ and they should be applied sensibly and flexibly based on the site-specific context of development.

Assessment of new or proposed neighbouring buildings

- 3.6. Where neighbouring properties are proposed and not built or occupied, they will have no current occupants. As such the reduction of daylight is not a particularly relevant test, as there is no one to experience the present value, or reduction. During the design of these apartments the Average Daylight Factor (ADF) test has been used to establish whether a suitable amount of daylight is provided. It would therefore seem that the ADF test is a more appropriate indicator of the acceptability of daylight conditions within these apartments.

- 3.7. The BRE guide gives the following in this regard: -

“Appendix F – paragraph F8

However, there are some situations where meeting a set ADF target value with the new development in place could be appropriate as a criterion for loss of light:

(ii) as a special case of (i), where the existing building is proposed and not built. A typical situation might be where the neighbouring building has received planning permission but not yet been constructed.”

Assessment of neighbouring dwellings with balconies

- 3.8. Care must be taken when assessing the impact of a development proposal upon neighbouring properties that have been provided with external overhanging or recessed balconies. These balconies are intended to provide additional outdoor amenity to the apartments, but they also inhibit the access to/potential for daylight and sunlight. The BRE guidance gives the following statements in this regard: -

“2.2.11 - Existing windows with balconies above them typically receive less daylight. Because the balcony cuts out light from the top part of the sky, even a modest obstruction opposite may result in a large impact on the VSC, and on the area receiving direct skylight (NSC). One way to demonstrate this would be to carry out an additional calculation of the VSC and the area receiving direct skylight for both existing and proposed situations without the balcony in place.”

“2.2.12 - A larger relative reduction in VSC may also be unavoidable if the existing window has projecting wings on one or both sides of it, or if it is recessed into the building so that it is obstructed on both sides as well as above.”

- 3.9. It is therefore often relevant and necessary to conduct assessments of the

surrounding properties with their balconies omitted, so that the impact upon the potential for good daylight and sunlight can be fully understood. Full results of these assessments where applied can be found in the appendix.

Housing Supplementary Planning Guidance (SPG)

3.10., The Housing Supplementary Planning Guidance (SPG) from the London Plan, March 2016 provides the following:

"1.3.45 Policy 7.6Bd requires new development to avoid causing 'unacceptable harm' to the amenity of surrounding land and buildings, particularly in relation to privacy and overshadowing and where tall buildings are proposed. An appropriate degree of flexibility needs to be applied when using BRE guidelines to assess the daylight and sunlight impacts of new development on surrounding properties, as well as within new developments themselves. Guidelines should be applied sensitively to higher density development, especially in opportunity areas, town centres, large sites and accessible locations, where BRE advice suggests considering the use of alternative targets. This should take into account local circumstances; the need to optimise housing capacity; and scope for the character and form of an area to change over time.

1.3.46 The degree of harm on adjacent properties and the daylight targets within a proposed scheme should be assessed drawing on broadly comparable residential typologies within the area and of a similar nature across London. Decision makers should recognise that fully optimising housing potential on large sites may necessitate standards which depart from those presently experienced but which still achieve satisfactory levels of residential amenity and avoid unacceptable harm."

It is considered important to note that in areas of a shifting urban context, achieving good levels of daylight and sunlight is to be balanced against can other beneficial design factors.

National Planning Policy Framework, 2019

3.11. In regard to daylight and sunlight, paragraph 123(c) the National Planning Policy Framework (NPPF) states:

"Where there is an existing or anticipated shortage of land for meeting identified housing needs, it is especially important that planning policies and decisions avoid homes being built at low densities, and ensure that developments make optimal use of the potential of each site. In these circumstances:

c) local planning authorities should refuse applications which they consider fail to make efficient use of land, taking into account the policies in this Framework. In this context, when considering applications for housing, authorities should take a flexible approach in applying policies or guidance relating to daylight and sunlight, where they would otherwise inhibit making efficient use of a site (as long as the resulting scheme would provide acceptable living standards)."

The NPPF therefore reinforces the fact that daylight / sunlight standards should be applied flexibly to optimise the land use of sites particular for securing housing delivery.

4. Assumptions

4.1. When considering internal daylight levels, the internal finishes for the proposed rooms have been assumed to include white ceilings, cream walls and light floors. As such, the following parameters have been applied in regard to the reflectance levels:

- Ceiling: 0.85
- Walls: 0.81
- Floors: 0.4

5. Sources of Information

5.1. Eb7 have used measured survey data (laser scan), architect's drawings, site photographs and Ordnance Survey information to build a 3D computer model of the existing building and its surroundings. Our understanding of the former site is shown within appendix 1. The architect's drawings have been used to build a model of the proposal drawings of which can also be found in appendix 1.

Terrain Surveys Ltd

TS16-053W1-2D-MM-RevA.dwg

TS16-053W1-3D-MM-RevA.dwg

Received 04/03/2016

Tate Hindle Architects

15406-THD-XX-XX-M3-A-0001-Arch_model_20200703 – 3D View

Received 05/08/2020

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Site Photographs

Ordnance Survey

6. The Site and Proposal

6.1. The site is located on the northern side of Nestles Avenue bound by the commercial units at 7 Nestles Avenue to the west and the former Nestle Factory to the east. The site is currently occupied by a 1-2-storey commercial property.

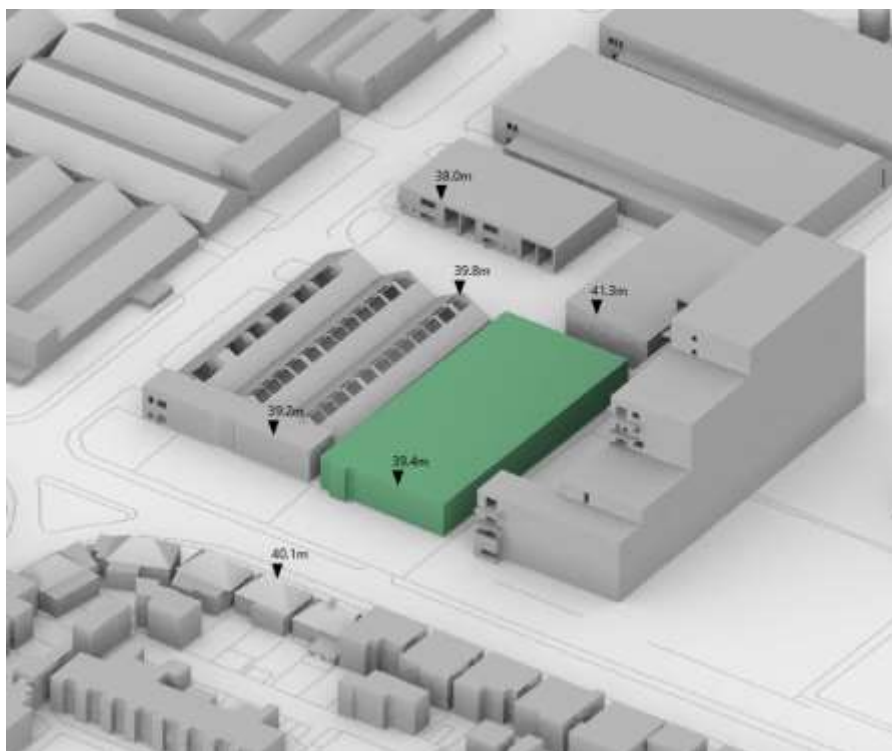


Image 1: Isometric view showing the existing site at 9 Nestle's Avenue including adjacent development

- 6.2. The proposals include the demolition of the existing building and construction of a new residential development of 11 storeys in height.
- 6.3. The properties to the north and east of the site are predominantly commercial / industrial use. To the south of Nestles Avenue are 2-storey semi-detached houses.
- 6.4. The site to the east is the former Nestle Factory site. This received planning consent for a major redevelopment in December 2017 (application ref: 1331/APP/2017/1883) to provide 1,386 dwellings including office, retail, community and leisure uses.
- 6.5. Whilst development of the Nestle Factory site is in its early stages, an assessment of the impacts of the proposed scheme upon this consented scheme have also been considered as part of this study.
- 6.6. The following residential properties were considered within our assessment as those with potential to see an impact to their daylight:
 - 62 Nestles Avenue
 - 78 Black Rod Close
 - 92-104 Nestles Avenue
 - The former Nestle Factory – Block D

7. Daylight and Sunlight Results

Daylight and Sunlight to the surrounding properties

- 7.1. As noted above the former Nestle Factory site to the east is being brought forward for development and received planning consent in December 2017 for major residential-led redevelopment and is now under construction.
- 7.2. For completeness, we have considered the cumulative daylight and sunlight effects of the scheme alongside the neighbouring 'Block D' of the Nestle Factory site. The results of these assessments can be found in appendix 2.

92 – 104 Nestle's Avenue



Image 2: Front elevations of 92-104 Nestle's Avenue

- 7.3. This row of houses is located opposite the site on the southern side of Nestle's Avenue. The front elevations overlook the site and have therefore been considered for daylight effects.

Daylight

- 7.4. The results of our Vertical Sky Component (VSC) assessments demonstrate all habitable windows / rooms will achieve at least 0.8 times their former value with the scheme in place. Overall VSC levels also remain high with all windows (or the mean VSC in respect of rooms with more than one window) achieving an absolute VSC of 22% or above.
- 7.5. In respect of the secondary NSC analysis a single ground floor living room in 100 Nestle's Avenue will fall to 0.7 times its former value. This represents only a very minor deviation to a room where the mean VSC remains very high at above 27%. Daylight penetration to this space also remains high with the No Sky Line extending to over 70% of the room's floor area.
- 7.6. The daylight effects as a result of the proposals are therefore considered to be wholly in line with the BRE criteria for daylighting.

Sunlight

- 7.7. As all windows within these properties which face the site are orientated towards due north. They will therefore not be materially affected by development across Nestles Avenue and are therefore not relevant for assessment of APSH sunlight assessment under the BRE guide.

62 Nestles Avenue & 78 Black Rod Close

- 7.8. These 2-storey houses are located to the west of the site at the junction of Nestles Avenue and Black Rod Close. Although offset from the proposals the front elevation of these properties will have a more distant view of the scheme and are considered relevant for assessment.



Image 3: Front elevation of 62 Nestle's Avenue and 78 Black Rod Close

Daylight

- 7.9. The results of our Vertical Sky Component (VSC) and No-Sky Contour (NSC) tests demonstrate the effects to these properties are fully compliant with the BRE guidelines retaining at least 0.8 times their existing levels with the scheme in place.
- 7.10. Changes would be limited to less than 1% shifts in the VSC levels and such changes are regarded as unnoticeable and fully satisfy the BRE guidance.

Sunlight

- 7.11. Again, the windows of these properties which face the site are north facing and are not relevant for APSH sunlight assessment.

Block D – The Former Nestle Factory Site

- 7.12. The consented development of the former Nestle Factory adjoins the site to the east. The bulk and mass of the proposal is of a similar height and scale as the proposed block D of the Nestle Factory development which would neighbour the proposal. This consented future block is illustrated below.

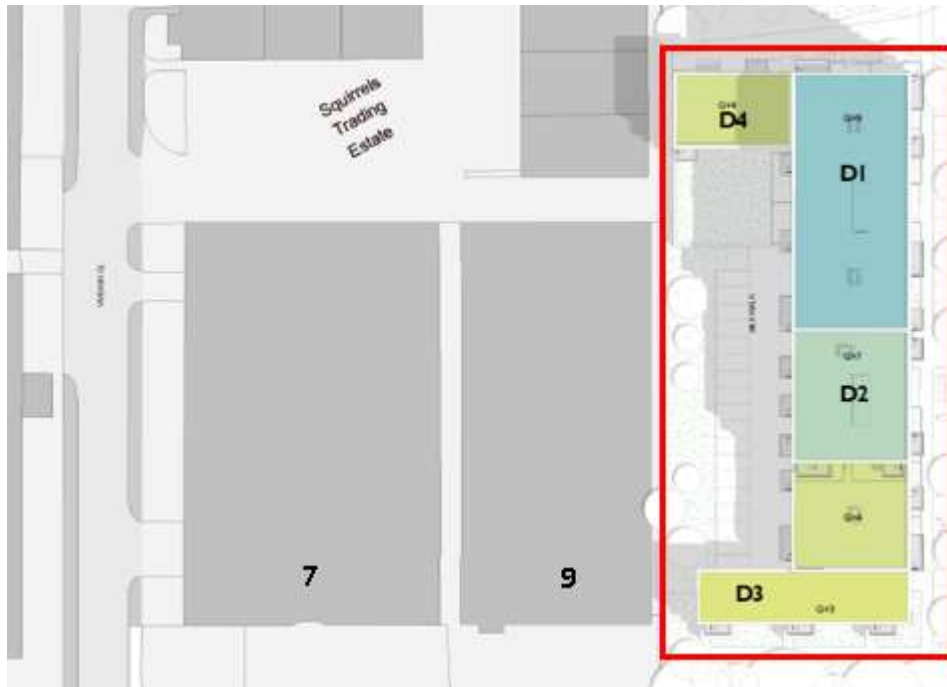


Image 4: Block D of the former Nestle Factory Site

7.13. Given construction is only just underway for this development and the proposal is not yet occupied appendix F or the BRE guidance suggests the ADF should be used to assess the daylight amenity of the consented development. This reflects the assessments that the neighbouring designers would have utilised when considering the amenity to their design.

Daylight

7.14. The design of the neighbouring block includes a number of deep living / kitchen / dining rooms (L/K/D) at c.6.75m deep. Paragraph 2.2.10 of the BRE guidelines acknowledges the inherent sensitivity of rooms that are more than c.5m deep. In addition, the presence of the balconies overhanging the windows to these spaces introduces further sensitivities to these spaces.

7.15. Given the depth of these spaces it is considered appropriate to apply the 1.5% 'living room' ADF figure rather than the higher 2.0% 'kitchen' target. This would indicate that the living space, located closest to the window, would enjoy good daylight amenity.

7.16. When considering the effects on this property 108 of 132 (82%) consented habitable rooms meet the ADF targets. 12 of the affected LKDs remain within a small tolerance of c..2%-0.3% of the ADF targets which, given the depth of the spaces and external balcony provision, is unlikely to materially affect the spaces which will benefit from task lighting to the rear. In addition, two of the affected rooms are bedrooms which are considered less sensitive in respect of daylighting levels under the BRE guidance.

7.17. The guidelines suggest that an assessment considering the daylight levels without balconies is useful to demonstrate the impact the neighbouring design has on daylight potential given the trade off with the provision of balcony amenity space.

This assessment has been undertaken and the results are attached at appendix 4.

- 7.18. When we consider the ADF to this building taking account of the effect of balconies the compliance rate increases to 130 of the 132 (98%) rooms meeting the suggested ADF targets. This shows the presence of the balcony is the main driver behind the lower internal daylight levels. The effects to the neighbouring consented scheme are wholly in keeping with the character of the development in the area and are acceptable and in line with the intentions of the BRE criteria for internal daylighting.

Sunlight

- 7.19. In terms of sunlight the vast majority of main living spaces within this consented block meet the BRE targets with the proposal in place with only 2 deviations from the BRE guide. These deviations are again a result of the presence of the balconies limiting sunlight to the two rooms below.
- 7.20. When the effect of balconies is considered all main living-spaces continue to meet the targets and the effects are fully in line with the BRE guidelines for direct sunlight.

Sunlight Amenity assessment

- 7.21. In addition to the daylight and sunlight effects of the proposals upon the neighbouring buildings we have considered the overshadowing effects to the space between the proposals and block D of the former Nestle Factory site.
- 7.22. Whilst the area appears to be primarily car parking space it may provide some amenity to the neighbouring residents. We have therefore assessed this for completeness to demonstrate the proposals will meet the BRE criteria and not leave the area excessively shaded. The detailed results of this assessment can be found at appendix 4 of this report.
- 7.23. With the proposal in place the ground level amenity space demonstrates full compliance with the BRE criteria, with at least 72% of the area receiving 2 hours or more of direct sunlight on the 21st of March.
- 7.24. The amenity areas are not excessively shaded and the proposal is fully compliant with the BRE criteria.

Internal Daylight

- 7.25. We have also considered amenity levels within the proposed units of the 9 Nestles Avenue scheme using the ADF test following the methodology of the BRE guidance document.
- 7.26. Full results of our internal study and drawings showing the internal layouts of the proposed accommodation with windows and room labels can be found at appendix 5.
- 7.27. All habitable rooms have been included within our assessments.
- 7.28. The results of the ADF analysis indicate that the vast majority of rooms achieve ADF levels in line with the suggested targets when considered in the existing context.

7.29. The results demonstrate 247 (over 94%) of the 262 rooms assessed would achieve ADF levels meeting or exceeding the targets for their specific room use.

Room Type	ADF Target	Total No. of Rooms	Rooms That Meet ADF Target
L/D, Living Room	1.5%	100	97(97%)
Bedroom	1.0%	162	150 (93%)
Total		262	247 (94%)

7.30. Where we have analysed the open plan Living/Kitchen/Diner spaces we have removed the kitchen element from the assessment as, particularly in the deeper open plan rooms, the kitchen will benefit from task lighting and be linked to a well daylit living space.

7.31. Three Living/Dining rooms fall below the 1.5% target are located at first and second floor level in the eastern elevation and are all overhung by an external balcony. A direct 'trade off' is evident between BRE compliant daylight levels and private amenity spaces which these units benefit from. Notwithstanding this, the overall the compliance rate for these rooms is considered excellent at c.97%.

7.32. Of 12 bedrooms which fall below the 1.0% ADF target, 8 of these are just 0.1%-0.3% below the ADF target and therefore considered as only very minor deviations from the ADF target value. The remaining four are secondary bedrooms and as such generally have a lower reliance on daylight.

7.33. Overall internal amenity levels are considered to be good for a modern flatted development and reflect the context of consecutive development along Nestles Avenue.

8. Conclusions

8.1. This report considers the daylight and sunlight effects of the August 2020 Tate Hindle Architects proposals for 9 Nestles Avenue.

8.2. The assessment has been undertaken using the VSC, NSC, ADF and ASPH tests set out within the BRE guidelines 'Site layout planning for daylight and sunlight: a guide to good practice' (BRE, 2011) and the British Standard document British Standard document BS8206 pt2.

8.3. The site to the east at the former Nestle Factory is now under construction and as such, we have considered the cumulative effects with these proposals in place to provide a comprehensive picture of the wider future daylight / sunlight effects to the area.

8.4. The results of the assessment show little effect to the current neighbours to the south of the site across Nestles Avenue.

- 8.5. Block D of the future proposed scheme at the former Nestle Factory performs well with the vast majority of rooms continuing to meet the ADF targets for their specific room use. Where units fall below this level the sensitivity is predominantly due to the deep spaces and presence of overhanging balconies which provide high quality private amenity space. An assessment taking into account the effects of this design confirms the proposals to be acceptable and in line with the BRE guidelines.
- 8.6. Daylight has been a key consideration influencing the design process and the scheme performs well in regards to the internal daylight assessment. The results show excellent levels of overall compliance with c.94% of rooms achieving or exceeding the BRE targets.
- 8.7. In addition to the above, we have also assessed the sunlight available to the neighbouring amenity space at the former Nestle Factory site. The results of the sunlight amenity assessment demonstrate the courtyard area to Block D will fully satisfy the guidelines and remain adequately sunlit throughout the year.
- 8.8. Overall, the results of the daylight and sunlight assessment are in line with the intentions of the BRE guidance and are considered acceptable particularly given the emerging urban context.

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Appendix 1

Drawings of the existing, proposed and surrounding buildings



Sources of information

Terrain Surveys Ltd
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TS16-053W1-3D-MM-RevA.dwg
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Received 04/08/2020

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Ordnance Survey

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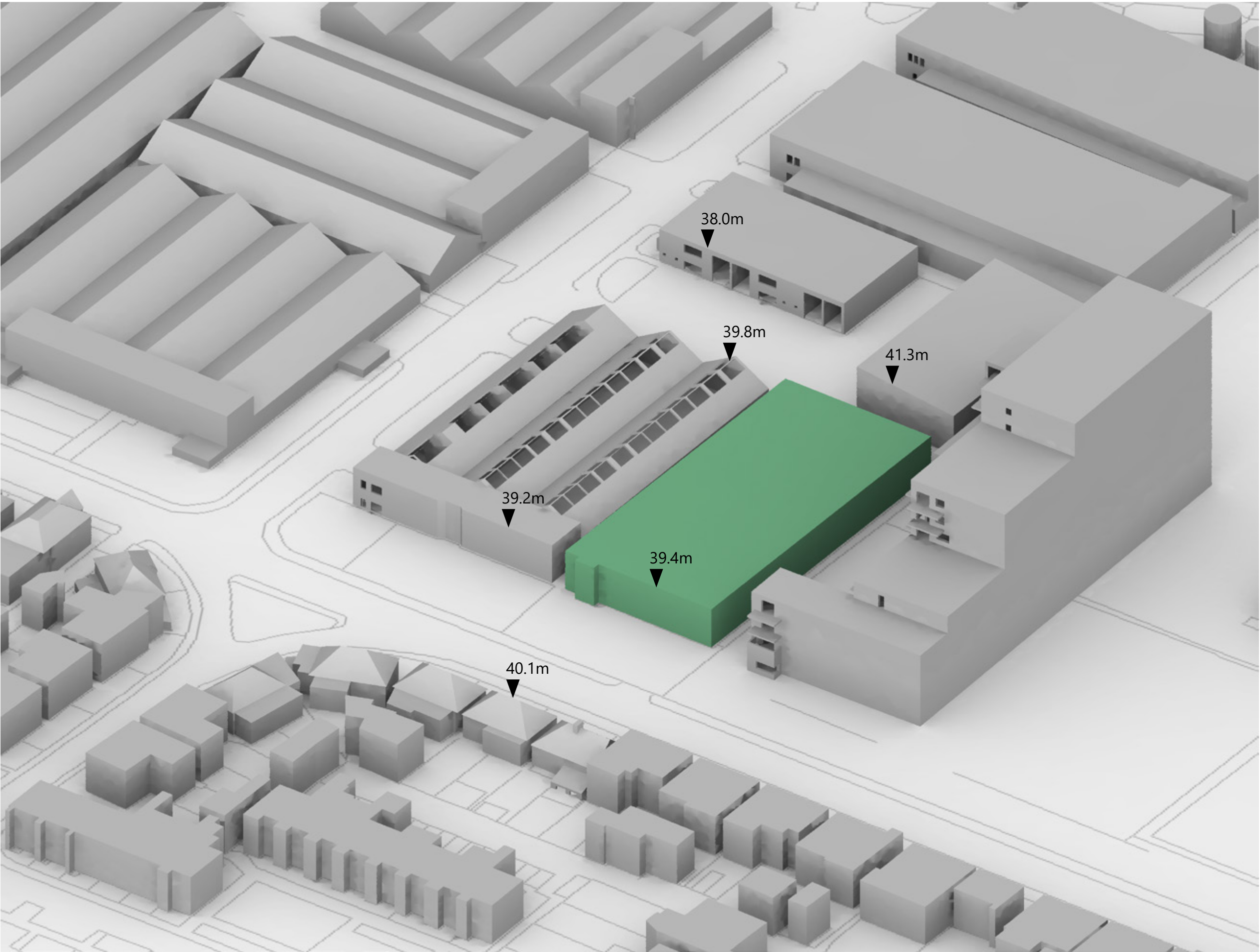
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Project Hayes Acquisition

Title Existing Condition
Plan View

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Received 04/03/2016

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Site Photographs
Ordnance Survey

Key:

- Existing
- Proposed

Notes:
All heights and dimensions are in AOD

Project Hayes Acquisition

Title Existing Condition
3D View

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Ordnance Survey

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- Proposed



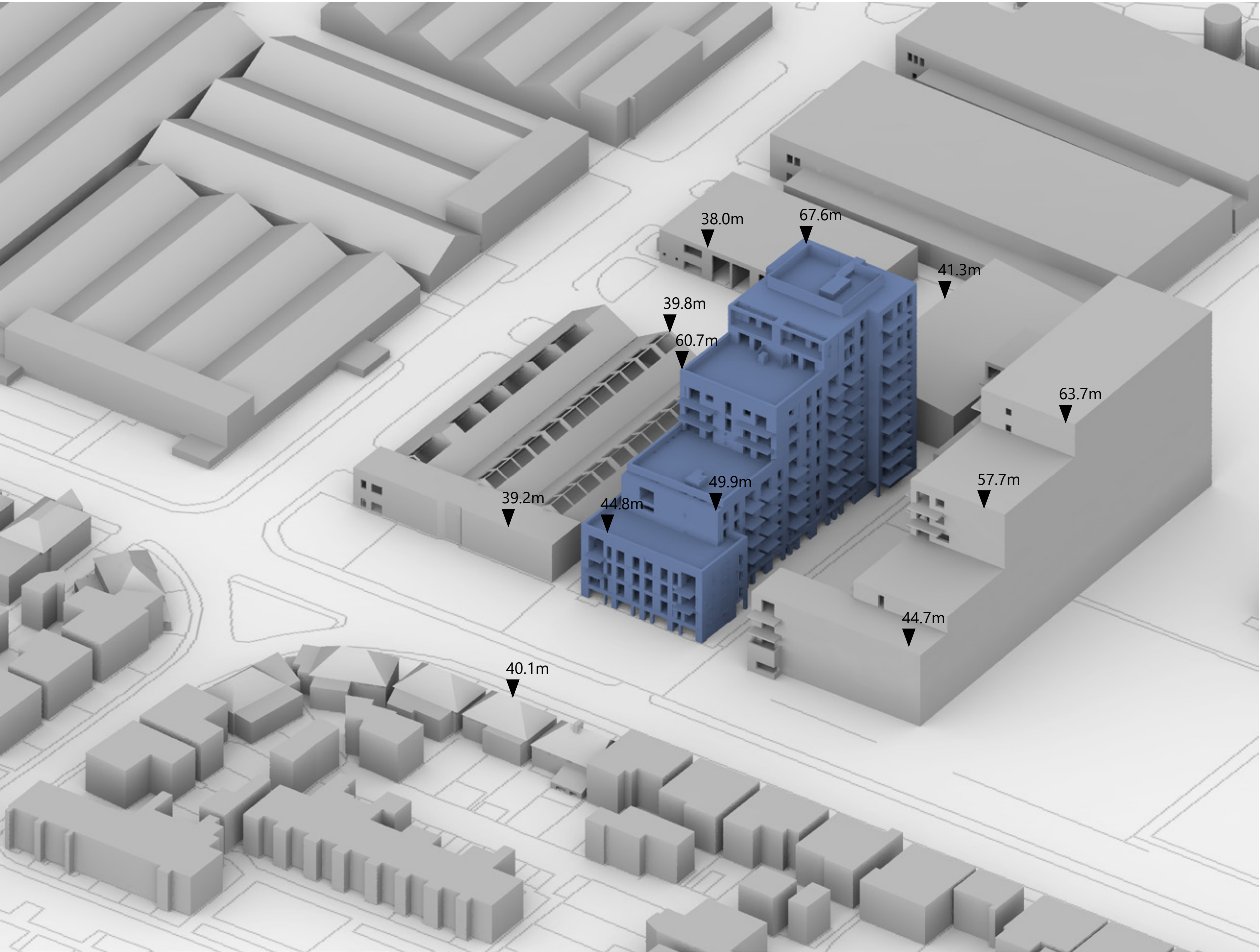
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Plan View

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15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
15406-A-(72) - 102A_04.dwg
15406-A-(72) - 102B_04.dwg
15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
15406-A-(72) - 106_02.dwg
15406-A-(72) - 107_03.dwg
15406-A-(72) - 108_00.dwg
15406-A-(72) - 109_03.dwg
15406-A-(72) - 110_03.dwg
15406-A-(04) - 100_09.dwg
15406-A-(05) - 100_08.dwg
15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
Received 04/08/2020

EB7 Ltd
Site Photographs
Ordnance Survey

Key:

- Existing
- Proposed

Notes:
All heights and dimensions are in AOD

Project Hayes Acquisition

Title Proposed Development
3D View

Drawn	AP	Checked	--
Date	05/08/2020	Project	3252
Rel no.	07	Prefix	DS01
		Page no.	04



Appendix 2

Results of the daylight and sunlight assessments
within neighbouring properties

Address	Room	Window	Room Use	Existing VSC	Proposed VSC	Loss	Proportion Retained	Room Area	Existing NSC	Proposed NSC	Loss	Proportion Retained	Existing APSH		Proposed APSH		Total Retained	Winter Retained
104 Nestle's Ave													Total	Winter	Total	Winter		
Ground	R1	W1	LKD	21.1	18.9	2.2	0.9											
		W2		26.6	24.3	2.4	0.9											
		W3		7.3	6.3	1.0	0.9											
		W5		32.6	32.6	0.0	1.0											
		W6-L		32.5	32.5	0.0	1.0											
		W6-U					469.8	466.9	460.8	6.0	1.0	76	22	76	22	1.0	1.0	
Ground	R2	W4	Hallway	28.4	26.0	2.4	0.9	35.9	33.9	33.9	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1-L	Bedroom	33.2	30.6	2.5	0.9											
		W1-U						122.3	120.6	118.9	1.7	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L	Bedroom	33.1	30.6	2.6	0.9											
		W2-U						48.9	48.5	48.5	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
Second	R1	W1	Residential	79.7	78.0	1.7	1.0											
		W2		80.7	79.0	1.7	1.0	78.2	67.4	67.4	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
102 Nestle's Ave																		
Ground	R1	W1	Residential	32.8	30.5	2.3	0.9											
		W2		32.9	30.6	2.3	0.9											
		W3		32.0	29.7	2.2	0.9	69.6	63.6	60.7	2.9	1.0	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R2	W4	Residential	27.3	25.3	2.0	0.9											
		W5		31.9	29.6	2.3	0.9											
		W6		23.1	22.0	1.1	1.0	147.6	147.1	147.1	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1-L	Residential	33.2	30.7	2.5	0.9											
		W1-U						75.6	75.0	72.6	2.4	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L	Residential	33.2	30.7	2.5	0.9											
		W2-U						133.6	131.2	128.8	2.4	1.0	N/F	N/F	N/F	N/F	N/F	N/F
100 Nestle's Ave																		
Ground	R1	W1	Living Room	28.6	26.7	1.9	0.9											
		W2		32.5	30.0	2.5	0.9											
		W3		28.4	26.9	1.5	0.9	287.3	282.2	208.9	73.3	0.7	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing	Proposed	Loss	Proportion	Room Area	Existing	Proposed	Loss	Proportion	Existing APSH		Proposed APSH		Total Retained	Winter Retained
				VSC	VSC		Retained		NSC	NSC		Retained	Total	Winter	Total	Winter		
Ground	R2	W4	Hallway	30.1	27.7	2.4	0.9											
		W5-L		27.9	25.6	2.3	0.9											
		W5-U																
		W6		32.3	29.9	2.4	0.9											
		W7		32.0	29.7	2.4	0.9											
		W8		31.9	29.6	2.4	0.9											
		W9		29.4	27.1	2.4	0.9											
		W10-L		26.9	24.6	2.3	0.9											
		W10-U						7.8	5.1	5.1	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1-L	Residential	34.3	31.5	2.8	0.9											
		W1-U						159.6	157.0	146.5	10.5	0.9	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L W2-U	Residential	34.3	31.6	2.7	0.9											
								89.6	88.9	76.8	12.1	0.9	N/F	N/F	N/F	N/F	N/F	N/F
98 Nestle's Ave																		
Ground	R1	W1	Residential	32.5	30.2	2.3	0.9											
		W2		32.1	29.7	2.4	0.9	71.6	68.1	59.8	8.3	0.9	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R2	W3	Residential	29.5	27.8	1.7	0.9											
		W4		32.0	29.5	2.5	0.9											
		W5		26.4	24.7	1.7	0.9	144.2	143.2	143.2	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1-L W1-U	Residential	33.7	31.2	2.6	0.9											
								77.7	77.3	72.2	5.1	0.9	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L W2-U	Residential	33.7	31.0	2.7	0.9											
								137.6	135.9	134.5	1.5	1.0	N/F	N/F	N/F	N/F	N/F	N/F
96 Nestle's Ave																		
Ground	R1	W1-L	Residential	26.7	25.6	1.1	1.0											
		W1-U																
		W2-L		32.7	30.8	1.9	0.9											
		W2-U																
		W3-L		27.9	26.3	1.7	0.9											
		W3-U					138.4	138.4	128.3	10.1	0.9	N/F	N/F	N/F	N/F	N/F	N/F	
Ground	R2	W4	Residential	4.1	2.2	1.9	0.5											
		W5		5.3	4.4	0.9	0.8	54.7	37.5	12.9	24.6	0.3	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing VSC	Proposed VSC	Loss	Proportion Retained	Room Area	Existing NSC	Proposed NSC	Loss	Proportion Retained	Existing APSH Total	Existing APSH Winter	Proposed APSH Total	Proposed APSH Winter	Total Retained	Winter Retained
First	R1	W1-L W1-U	Residential	35.1	33.1	2.1	0.9	110.1	109.6	104.6	5.1	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L W2-U	Residential	35.1	32.8	2.3	0.9	91.3	90.9	85.0	5.9	0.9	N/F	N/F	N/F	N/F	N/F	N/F
94 Nestle's Ave																		
Ground	R1	W1 W2 W3 W4	Residential	12.1 7.3 8.9 33.9	10.4 6.7 8.9 32.1	1.8 0.7 0.0 1.8	0.9 0.9 1.0 0.9	146.9	134.7	126.1	8.6	0.9	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R2	W5-L W5-U W6-L W6-U W7-L W7-U	Residential	30.0 32.8 25.5	28.9 31.1 24.0	1.1 1.7 1.5	1.0 0.9 0.9	146.9	146.9	135.8	11.1	0.9	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1-L W1-U	Residential	35.4	33.5	1.9	0.9	119.4	117.9	116.6	1.3	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L W2-U	Residential	35.3	33.4	1.9	0.9	153.1	151.6	142.3	9.3	0.9	N/F	N/F	N/F	N/F	N/F	N/F
92 Nestle's Ave																		
Ground	R1	W1-L W1-U W2-L W2-U W3-L W3-U	Residential	29.7 34.1 29.0	29.4 32.8 27.2	0.3 1.3 1.8	1.0 1.0 0.9	197.4	196.4	196.4	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R2	W4 W5 W6	Residential	4.3 5.8 4.7	3.6 5.8 4.7	0.8 0.0 0.0	0.8 1.0 1.0	49.5	43.7	43.7	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1-L W1-U	Residential	35.6	34.2	1.4	1.0	153.3	151.9	151.9	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing VSC	Proposed VSC	Loss	Proportion Retained	Room Area	Existing NSC	Proposed NSC	Loss	Proportion Retained	Existing APSH Total	Existing APSH Winter	Proposed APSH Total	Proposed APSH Winter	Total Retained	Winter Retained
First	R2	W2-L W2-U	Residential	35.6	34.1	1.5	1.0	116.9	115.6	115.6	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
62 Nestle's Ave																		
Ground	R1	W1-L W1-U W2-L W2-U W3-L W3-U	Living Room	30.1	29.4	0.7	1.0											
				34.8	33.8	1.0	1.0											
				29.7	29.0	0.7	1.0	297.5	270.9	226.9	44.1	0.8	39	8	38	8	1.0	1.0
Ground	R2	W4-L W4-U W5 W6 W7 W8-L W8-U W9	Hallway	34.0	33.0	0.9	1.0											
				34.3	33.4	0.9	1.0											
				35.3	34.4	1.0	1.0											
				35.0	34.1	0.9	1.0											
				34.6	33.7	0.9	1.0											
				34.9	33.9	0.9	1.0	50.3	49.9	46.1	3.8	0.9	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R3	W10 W11	Residential	35.0	34.0	0.9	1.0											
				18.2	18.2	0.0	1.0	186.6	183.1	181.5	1.6	1.0	50	11	49	11	1.0	1.0
First	R1	W1-L W1-U	Residential	35.0	34.0	1.0	1.0	140.7	139.6	139.5	0.1	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L W2-U	Residential	35.0	34.0	1.0	1.0	91.5	90.6	90.5	0.1	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R3	W3-L W3-U	Hallway	31.3	31.3	0.0	1.0	30.3	28.7	28.7	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
1 Black Rod Close																		
Ground	R1	W1-L W1-U W2-L W2-U W3-L W3-U	Residential	32.7	32.6	0.2	1.0											
				35.0	33.9	1.1	1.0											
				30.1	28.6	1.5	1.0	165.7	165.5	165.5	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing VSC	Proposed VSC	Loss	Proportion Retained	Room Area	Existing NSC	Proposed NSC	Loss	Proportion Retained	Existing APSH Total	Existing APSH Winter	Proposed APSH Total	Proposed APSH Winter	Total Retained	Winter Retained
Ground	R2	W4-L W4-U W5-L W5-U	Residential	9.6	9.3	0.3	1.0											
				10.7	10.7	0.0	1.0	57.0	53.1	53.1	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R3	W6-L W6-U W7-L W7-U W8-L W8-U	Residential	30.5	30.2	0.2	1.0											
				34.3	33.1	1.2	1.0											
				27.8	26.2	1.6	0.9	164.2	163.9	163.9	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1-L W1-U	Residential	36.3	35.2	1.1	1.0											
								112.4	111.9	111.9	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L W2-U	Residential	35.8	34.6	1.2	1.0											
								112.4	111.2	111.2	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R3	W3-L W3-U	Residential	35.7	34.5	1.3	1.0											
								153.8	152.1	152.1	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
78 Black Rod Close																		
Ground	R1	W1-L W1-U W2-L W2-U W3-L W3-U	Residential	27.1	26.4	0.8	1.0											
				34.5	33.6	1.0	1.0											
				29.7	29.0	0.7	1.0	197.4	196.1	196.1	0.0	1.0	37	8	36	8	1.0	1.0
Ground	R2	W4 W5 W6 W7 W8	Residential	4.7	3.8	0.9	0.8											
				8.2	7.3	0.9	0.9											
				7.9	7.0	0.9	0.9											
				4.9	3.9	0.9	0.8											
				4.3	3.4	0.9	0.8	57.0	45.5	37.0	8.5	0.8	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R3	W9-L W9-U	Residential	34.6	33.6	1.0	1.0											
								107.6	106.3	106.3	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1-L W1-U	Residential	34.2	33.2	1.0	1.0											
								153.4	151.7	150.5	1.2	1.0	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing VSC	Proposed VSC	Loss	Proportion Retained	Room Area	Existing NSC	Proposed NSC	Loss	Proportion Retained	Existing APSH Total	Existing APSH Winter	Proposed APSH Total	Proposed APSH Winter	Total Retained	Winter Retained
First	R2	W2-L W2-U	Residential	34.3	33.3	1.0	1.0	116.9	115.4	109.0	6.4	0.9	N/F	N/F	N/F	N/F	N/F	N/F
1 to 6 Griffiths Court																		
Ground	R1	W1	Residential	30.9	30.6	0.3	1.0	90.9	90.1	90.1	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R2	W2	Residential	34.9	34.4	0.5	1.0	82.7	82.4	82.4	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R3	W3	Residential	34.9	34.4	0.5	1.0	82.7	82.5	82.5	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
Ground	R4	W4	Residential	31.0	30.5	0.5	1.0	97.2	96.4	96.4	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R1	W1	Residential	33.0	32.7	0.3	1.0	90.9	90.3	90.3	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2-L W2-U	Residential	36.5	36.1	0.5	1.0	82.7	82.4	82.4	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R3	W3-L W3-U	Residential	36.6	36.1	0.5	1.0	82.7	82.4	82.4	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R4	W4	Residential	32.9	32.4	0.5	1.0	97.2	96.7	96.7	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F
Second	R1	W1-L W1-U	Residential	37.5	37.1	0.5	1.0	170.1	138.1	138.1	0.0	1.0	N/F	N/F	N/F	N/F	N/F	N/F



Appendix 3

Without balconies assessment to Block D

Address	Room	Window	Room Use	Existing ADF		Proposed ADF		Loss	Loss %	Existing APSH		Proposed APSH		Total Retained	Winter Retained
				Window	Total	Window	Total			Total	Winter	Total	Winter		
Block D															
Ground	R1	W1	LKD	3.1		3.1									
		W2		0.9	4.1	0.9	4.1	0.0	0.0	80	26	80	26	1.0	1.0
First	R1	W1	Bedroom	2.9	2.9	1.8	1.8	1.0	35.3	N/F	N/F	N/F	N/F	N/F	N/F
First	R2	W2	Bedroom	3.3	3.3	2.1	2.1	1.2	37.2	N/F	N/F	N/F	N/F	N/F	N/F
First	R3	W3-L	LKD	0.6		0.4									
		W3-U		2.4	3.0	1.4	1.8	1.1	38.3	N/F	N/F	N/F	N/F	N/F	N/F
First	R4	W4	Bedroom	3.5	3.5	2.1	2.1	1.4	39.7	N/F	N/F	N/F	N/F	N/F	N/F
First	R5	W5-L	LKD	0.7		0.4									
		W5-U		2.6	3.2	1.6	2.0	1.3	39.0	N/F	N/F	N/F	N/F	N/F	N/F
First	R6	W6-L	LKD	0.7		0.4									
		W6-U		2.6	3.3	1.6	2.0	1.2	37.7	N/F	N/F	N/F	N/F	N/F	N/F
First	R7	W7	Bedroom	3.0	3.0	1.9	1.9	1.1	36.7	N/F	N/F	N/F	N/F	N/F	N/F
First	R8	W8	Bedroom	3.7	3.7	2.4	2.4	1.3	35.1	N/F	N/F	N/F	N/F	N/F	N/F
First	R9	W9-L	LKD	0.6		0.4									
		W9-U		2.5	3.2	1.7	2.1	1.0	32.7	N/F	N/F	N/F	N/F	N/F	N/F
First	R10	W10	Bedroom	3.0	3.0	2.0	2.0	0.9	30.8	N/F	N/F	N/F	N/F	N/F	N/F
First	R11	W11-L	Bedroom	0.5		0.3									
		W11-U		1.8	2.3	1.3	1.6	0.7	29.3	N/F	N/F	N/F	N/F	N/F	N/F
First	R12	W12-L	LKD	0.4		0.3									
		W12-U		1.5	1.8	1.0	1.3	0.5	29.4	N/F	N/F	N/F	N/F	N/F	N/F
First	R13	W13	Bedroom	1.5	1.5	0.6	0.6	0.9	60.1	N/F	N/F	N/F	N/F	N/F	N/F
First	R14	W14	LKD	1.0		0.7									
		W15-L		0.5		0.5									
		W15-U		2.4	3.9	2.4	3.6	0.3	7.2	72	26	72	26	1.0	1.0
Second	R1	W1-L	LKD	1.0		0.7									
		W1-U		4.0	5.0	2.7	3.4	1.6	31.5	52	14	29	8	0.6	0.6
Second	R2	W2	Bedroom	3.9	3.9	2.8	2.8	1.1	28.7	49	14	29	9	0.6	0.6
Second	R3	W3	Circulation	1.2	1.2	1.0	1.0	0.3	22.7	36	10	25	7	0.7	0.7
Second	R4	W4	Circulation	2.1	2.1	1.6	1.6	0.5	22.8	37	9	23	6	0.6	0.7
Second	R5	W5-L	LKD	0.5		0.4									
		W5-U		1.9	2.4	1.4	1.8	0.6	26.7	N/F	N/F	N/F	N/F	N/F	N/F
Second	R6	W6	Bedroom	3.2	3.2	2.4	2.4	0.8	26.0	N/F	N/F	N/F	N/F	N/F	N/F
Second	R7	W7	Bedroom	3.4	3.4	2.5	2.5	0.9	26.9	N/F	N/F	N/F	N/F	N/F	N/F
Second	R8	W8-L	LKD	0.7		0.5									
		W8-U		2.5	3.2	1.8	2.2	0.9	29.6	N/F	N/F	N/F	N/F	N/F	N/F
Second	R9	W9	Bedroom	3.5	3.5	2.3	2.3	1.2	33.7	N/F	N/F	N/F	N/F	N/F	N/F
Second	R10	W10	Bedroom	4.2	4.2	2.7	2.7	1.5	35.9	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing ADF		Proposed ADF		Loss	Loss %	Existing APSH		Proposed APSH		Total Retained	Winter Retained
				Window	Total	Window	Total			Total	Winter	Total	Winter		
Second	R11	W11-L	LKD	0.7		0.5									
		W11-U		2.8	3.5	1.7	2.2	1.3	37.4	N/F	N/F	N/F	N/F	N/F	N/F
Second	R12	W12	Bedroom	3.7	3.7	2.3	2.3	1.4	38.0	N/F	N/F	N/F	N/F	N/F	N/F
Second	R13	W13-L	LKD	0.7		0.5									
		W13-U		2.8	3.5	1.7	2.2	1.3	37.5	N/F	N/F	N/F	N/F	N/F	N/F
Second	R14	W14-L	LKD	0.7		0.5									
		W14-U		2.7	3.4	1.7	2.2	1.2	35.9	N/F	N/F	N/F	N/F	N/F	N/F
Second	R15	W15	Bedroom	3.2	3.2	2.1	2.1	1.1	34.0	N/F	N/F	N/F	N/F	N/F	N/F
Second	R16	W16	Bedroom	3.8	3.8	2.6	2.6	1.2	32.2	N/F	N/F	N/F	N/F	N/F	N/F
Second	R17	W17-L	LKD	0.7		0.5									
		W17-U		2.7	3.4	1.9	2.4	1.0	29.7	N/F	N/F	N/F	N/F	N/F	N/F
Second	R18	W18	Bedroom	3.6	3.6	2.6	2.6	1.0	26.8	N/F	N/F	N/F	N/F	N/F	N/F
Second	R19	W19-L	Bedroom	0.9		0.7									
		W19-U		3.7	4.6	2.8	3.5	1.1	24.7	N/F	N/F	N/F	N/F	N/F	N/F
Second	R20	W20-L	LKD	0.5		0.4									
		W20-U		1.8	2.3	1.4	1.8	0.6	24.1	N/F	N/F	N/F	N/F	N/F	N/F
Second	R21	W21	LKD	1.4		1.1									
		W22-L		0.5		0.5									
		W22-U		2.0	3.9	2.0	3.6	0.3	7.7	73	26	73	26	1.0	1.0
Third	R1	W1-L	LKD	1.0		0.7									
		W1-U		3.8	4.8	2.7	3.4	1.4	29.9	50	14	26	8	0.5	0.6
Third	R2	W2	Bedroom	3.7	3.7	2.7	2.7	1.0	26.4	45	14	26	9	0.6	0.6
Third	R3	W3	Circulation	1.2	1.2	0.9	0.9	0.2	18.4	37	11	28	8	0.8	0.7
Third	R4	W4	Circulation	2.0	2.0	1.6	1.6	0.4	21.0	37	9	23	6	0.6	0.7
Third	R5	W5-L	LKD	0.5		0.4									
		W5-U		2.0	2.6	1.6	2.0	0.6	22.6	N/F	N/F	N/F	N/F	N/F	N/F
Third	R6	W6	Bedroom	3.4	3.4	2.7	2.7	0.8	22.3	N/F	N/F	N/F	N/F	N/F	N/F
Third	R7	W7	Bedroom	3.6	3.6	2.8	2.8	0.9	23.7	N/F	N/F	N/F	N/F	N/F	N/F
Third	R8	W8-L	LKD	0.7		0.5									
		W8-U		2.6	3.3	1.9	2.4	0.9	26.8	N/F	N/F	N/F	N/F	N/F	N/F
Third	R9	W9	Bedroom	3.6	3.6	2.5	2.5	1.1	30.2	N/F	N/F	N/F	N/F	N/F	N/F
Third	R10	W10	Bedroom	4.3	4.3	2.9	2.9	1.4	32.4	N/F	N/F	N/F	N/F	N/F	N/F
Third	R11	W11-L	LKD	0.7		0.5									
		W11-U		2.8	3.6	1.9	2.4	1.2	33.7	N/F	N/F	N/F	N/F	N/F	N/F
Third	R12	W12	LKD	3.7	3.7	2.5	2.5	1.3	34.0	N/F	N/F	N/F	N/F	N/F	N/F
Third	R13	W13-L	LKD	0.7		0.5									
		W13-U		2.8	3.5	1.9	2.4	1.2	33.4	N/F	N/F	N/F	N/F	N/F	N/F
Third	R14	W14-L	LKD	0.7		0.5									
		W14-U		2.7	3.5	1.9	2.4	1.1	31.4	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing ADF		Proposed ADF		Loss	Loss %	Existing APSH		Proposed APSH		Total Retained	Winter Retained
				Window	Total	Window	Total			Total	Winter	Total	Winter		
Third	R15	W15	Bedroom	3.2	3.2	2.3	2.3	0.9	29.0	N/F	N/F	N/F	N/F	N/F	N/F
Third	R16	W16	Bedroom	3.9	3.9	2.8	2.8	1.0	27.0	N/F	N/F	N/F	N/F	N/F	N/F
Third	R17	W17-L	LKD	0.7		0.5									
		W17-U		2.7	3.5	2.1	2.6	0.9	24.6	N/F	N/F	N/F	N/F	N/F	N/F
Third	R18	W18	Bedroom	3.8	3.8	3.0	3.0	0.8	21.4	N/F	N/F	N/F	N/F	N/F	N/F
Third	R19	W19-L	Bedroom	1.0		0.8									
		W19-U		4.1	5.1	3.3	4.1	1.0	19.1	N/F	N/F	N/F	N/F	N/F	N/F
Third	R20	W20-L	LKD	0.5		0.4									
		W20-U		2.2	2.7	1.8	2.3	0.5	17.1	N/F	N/F	N/F	N/F	N/F	N/F
Third	R21	W21	LKD	1.5		1.2									
		W22-L		0.5		0.5									
		W22-U		2.0	4.0	2.0	3.7	0.3	6.6	77	26	77	26	1.0	1.0
Fourth	R1	W1-L	LKD	1.1		0.8									
		W1-U		3.9	5.0	2.8	3.6	1.4	27.8	53	15	30	9	0.6	0.6
Fourth	R2	W2	Bedroom	3.8	3.8	2.9	2.9	0.9	24.2	46	14	30	11	0.7	0.8
Fourth	R3	W3	Circulation	1.2	1.2	1.0	1.0	0.2	15.8	38	11	30	8	0.8	0.7
Fourth	R4	W4	Circulation	2.0	2.0	1.6	1.6	0.4	18.4	38	10	26	8	0.7	0.8
Fourth	R5	W5-L	LKD	0.6		0.5									
		W5-U		2.4	3.0	2.0	2.5	0.5	17.4	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R6	W6	Bedroom	3.8	3.8	3.0	3.0	0.7	19.0	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R7	W7	Bedroom	3.8	3.8	3.0	3.0	0.8	20.7	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R8	W8-L	LKD	0.7		0.5									
		W8-U		2.7	3.4	2.1	2.6	0.8	23.8	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R9	W9	Bedroom	3.6	3.6	2.7	2.7	1.0	26.8	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R10	W10	Bedroom	4.3	4.3	3.1	3.1	1.2	28.6	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R11	W11-L	LKD	0.8		0.5									
		W11-U		2.8	3.6	2.0	2.5	1.1	29.8	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R12	W12	Bedroom	3.7	3.7	2.6	2.6	1.1	29.9	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R13	W13-L	LKD	0.7		0.5									
		W13-U		2.8	3.6	2.0	2.5	1.0	29.0	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R14	W14-L	LKD	0.0		0.0									
		W14-U		2.8	2.8	2.0	2.0	0.7	26.4	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R15	W15	Bedroom	3.2	3.2	2.4	2.4	0.8	24.0	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R16	W16	Bedroom	3.9	3.9	3.1	3.1	0.9	22.0	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R17	W17-L	LKD	0.7		0.6									
		W17-U		2.8	3.5	2.2	2.8	0.7	19.7	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R18	W18	Bedroom	3.9	3.9	3.2	3.2	0.7	16.7	N/F	N/F	N/F	N/F	N/F	N/F
Fourth	R19	W19-L	Bedroom	1.1		0.9									
		W19-U		4.3	5.4	3.6	4.6	0.8	14.8	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing ADF		Proposed ADF		Loss	Loss %	Existing APSH		Proposed APSH		Total Retained	Winter Retained
				Window	Total	Window	Total			Total	Winter	Total	Winter		
Fourth	R20	W20-L	LKD	0.7		0.6									
		W20-U		2.5		2.2									
		W21-L		0.3		0.3									
		W21-U		1.1	4.5	1.1	4.1	0.4	9.0	67	24	66	24	1.0	1.0
Fifth	R1	W1	Bedroom	3.9	3.9	3.4	3.4	0.5	12.6	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R2	W2-L	LKD	0.7		0.6									
		W2-U		2.7	3.4	2.3	2.9	0.5	14.4	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R3	W3	Bedroom	3.9	3.9	3.2	3.2	0.6	16.3	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R4	W4	Bedroom	3.9	3.9	3.2	3.2	0.7	18.0	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R5	W5-L	LKD	0.7		0.6									
		W5-U		2.7	3.4	2.2	2.7	0.7	20.7	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R6	W6	Bedroom	3.7	3.7	2.8	2.8	0.9	23.3	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R7	W7	Bedroom	4.4	4.4	3.3	3.3	1.1	24.7	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R8	W8-L	LKD	0.8		0.6									
		W8-U		2.9	3.6	2.1	2.7	0.9	25.6	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R9	W9	Bedroom	3.2	3.2	2.4	2.4	0.8	25.1	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R10	W10-L	LKD	0.8		0.6									
		W10-U		2.8	3.6	2.1	2.7	0.9	24.3	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R11	W11	Bedroom	4.0	4.0	3.1	3.1	0.9	22.2	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R12	W12	Bedroom	5.4	5.4	4.3	4.3	1.1	20.2	N/F	N/F	N/F	N/F	N/F	N/F
Fifth	R13	W13-L	LKD	0.6		0.5									
		W13-U		2.2		1.8									
		W14-L		0.7		0.7									
		W14-U		2.5		2.5									
		W15		2.5	8.6	2.5	8.0	0.5	6.1	75	27	74	27	1.0	1.0
Sixth	R1	W1	Bedroom	3.9	3.9	3.5	3.5	0.4	10.3	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R2	W2-L	LKD	0.7		0.6									
		W2-U		2.7	3.4	2.4	3.0	0.4	11.9	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R3	W3	Bedroom	3.9	3.9	3.4	3.4	0.5	13.5	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R4	W4	Bedroom	3.9	3.9	3.3	3.3	0.6	14.9	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R5	W5-L	LKD	0.7		0.6									
		W5-U		2.7	3.4	2.3	2.8	0.6	17.3	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R6	W6	Bedroom	3.7	3.7	3.0	3.0	0.7	19.3	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R7	W7	Bedroom	4.4	4.4	3.5	3.5	0.9	20.3	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R8	W8-L	LKD	0.8		0.6									
		W8-U		2.9	3.6	2.3	2.9	0.8	21.0	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R9	W9	Bedroom	3.2	3.2	2.6	2.6	0.7	20.3	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R10	W10-L	LKD	0.8		0.6									
		W10-U		2.8	3.6	2.3	2.9	0.7	19.5	N/F	N/F	N/F	N/F	N/F	N/F

Address	Room	Window	Room Use	Existing ADF		Proposed ADF		Loss	Loss %	Existing APSH		Proposed APSH		Total Retained	Winter Retained
				Window	Total	Window	Total			Total	Winter	Total	Winter		
Sixth	R11	W11	Bedroom	4.0	4.0	3.3	3.3	0.7	17.4	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R12	W12	Bedroom	5.4	5.4	4.6	4.6	0.8	15.6	N/F	N/F	N/F	N/F	N/F	N/F
Sixth	R13	W13-L	LKD	0.6		0.5									
		W13-U		2.2		1.9									
		W14-L		0.7		0.7									
		W14-U		2.5		2.5									
		W15		1.7	7.7	1.7	7.4	0.4	5.0	75	27	74	27	1.0	1.0
Seventh	R1	W1	Bedroom	3.9	3.9	3.6	3.6	0.3	8.0	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R2	W2-L	LKD	0.7		0.7									
		W2-U		2.7	3.5	2.5	3.1	0.3	9.4	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R3	W3	Bedroom	3.9	3.9	3.5	3.5	0.4	10.6	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R4	W4	Bedroom	3.9	3.9	3.4	3.4	0.5	11.7	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R5	W5-L	LKD	0.7		0.6									
		W5-U		2.7	3.5	2.4	3.0	0.5	13.7	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R6	W6	Bedroom	3.7	3.7	3.1	3.1	0.6	15.1	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R7	W7	Bedroom	4.4	4.4	3.7	3.7	0.7	15.8	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R8	W8-L	LKD	0.8		0.6									
		W8-U		2.9	3.6	2.4	3.0	0.6	16.4	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R9	W9	Bedroom	3.2	3.2	2.7	2.7	0.5	15.5	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R10	W10-L	LKD	0.8		0.6									
		W10-U		2.8	3.6	2.4	3.1	0.5	14.9	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R11	W11	Bedroom	4.0	4.0	3.5	3.5	0.5	13.0	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R12	W12	Bedroom	5.4	5.4	4.8	4.8	0.6	11.6	N/F	N/F	N/F	N/F	N/F	N/F
Seventh	R13	W13-L	LKD	0.6		0.5									
		W13-U		2.2		2.0									
		W14-L		0.7		0.7									
		W14-U		2.5		2.5									
		W15		1.7	7.8	1.7	7.5	0.3	3.8	75	27	74	27	1.0	1.0
Eighth	R1	W1	Bedroom	3.9	3.9	3.7	3.7	0.2	5.7	N/F	N/F	N/F	N/F	N/F	N/F
Eighth	R2	W2-L	LKD	0.7		0.7									
		W2-U		2.8	3.5	2.6	3.3	0.2	6.8	N/F	N/F	N/F	N/F	N/F	N/F
Eighth	R3	W3	Bedroom	3.9	3.9	3.6	3.6	0.3	7.6	N/F	N/F	N/F	N/F	N/F	N/F
Eighth	R4	W4	LKD	3.9	3.9	3.6	3.6	0.3	8.4	N/F	N/F	N/F	N/F	N/F	N/F
Eighth	R5	W5-L	LKD	0.7		0.6									
		W5-U		2.7	3.5	2.5	3.1	0.3	9.9	N/F	N/F	N/F	N/F	N/F	N/F
Eighth	R6	W6	Bedroom	3.7	3.7	3.3	3.3	0.4	10.7	N/F	N/F	N/F	N/F	N/F	N/F
Eighth	R7	W7	Bedroom	4.4	4.4	3.9	3.9	0.5	11.1	N/F	N/F	N/F	N/F	N/F	N/F
Eighth	R8	W8-L	LKD	0.8		0.7									
		W8-U		2.9		2.6									
		W9		0.9	4.5	0.9	4.1	0.4	9.3	63	24	61	24	1.0	1.0

Address	Room	Window	Room Use	Existing ADF		Proposed ADF		Loss	Loss %	Existing APSH		Proposed APSH		Total Retained	Winter Retained
				Window	Total	Window	Total			Total	Winter	Total	Winter		
Ninth	R1	W1	Bedroom	3.9	3.9	3.8	3.8	0.1	3.5	N/F	N/F	N/F	N/F	N/F	N/F
Ninth	R2	W2-L	LKD	0.7		0.7									
		W2-U		2.7	3.5	2.6	3.3	0.1	4.2	N/F	N/F	N/F	N/F	N/F	N/F
Ninth	R3	W3	Bedroom	3.9	3.9	3.7	3.7	0.2	4.6	N/F	N/F	N/F	N/F	N/F	N/F
Ninth	R4	W4	Bedroom	3.9	3.9	3.7	3.7	0.2	5.1	N/F	N/F	N/F	N/F	N/F	N/F
Ninth	R5	W5-L	LKD	0.7		0.7									
		W5-U		2.7	3.5	2.6	3.3	0.2	6.1	N/F	N/F	N/F	N/F	N/F	N/F
Ninth	R6	W6	Bedroom	3.7	3.7	3.5	3.5	0.2	6.3	N/F	N/F	N/F	N/F	N/F	N/F
Ninth	R7	W7	Bedroom	4.4	4.4	4.1	4.1	0.3	6.5	N/F	N/F	N/F	N/F	N/F	N/F
Ninth	R8	W8-L	LKD	0.8		0.7									
		W8-U		2.9		2.7									
		W9		0.9	4.5	0.9	4.3	0.2	5.4	63	24	62	24	1.0	1.0



Appendix 4

Results of the sunlight amenity assessment

Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
15406-A-(72) - 102A_04.dwg
15406-A-(72) - 102B_04.dwg
15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
15406-A-(72) - 106_02.dwg
15406-A-(72) - 107_03.dwg
15406-A-(72) - 108_00.dwg
15406-A-(72) - 109_03.dwg
15406-A-(72) - 110_03.dwg
15406-A-(04) - 100_09.dwg
15406-A-(05) - 100_08.dwg
15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
Received 04/08/2020

EB7 Ltd
Site Photographs
Ordnance Survey

Key:

- Area of assessment
- More than 2 hours of sunlight
- Less than 2 hours of sunlight



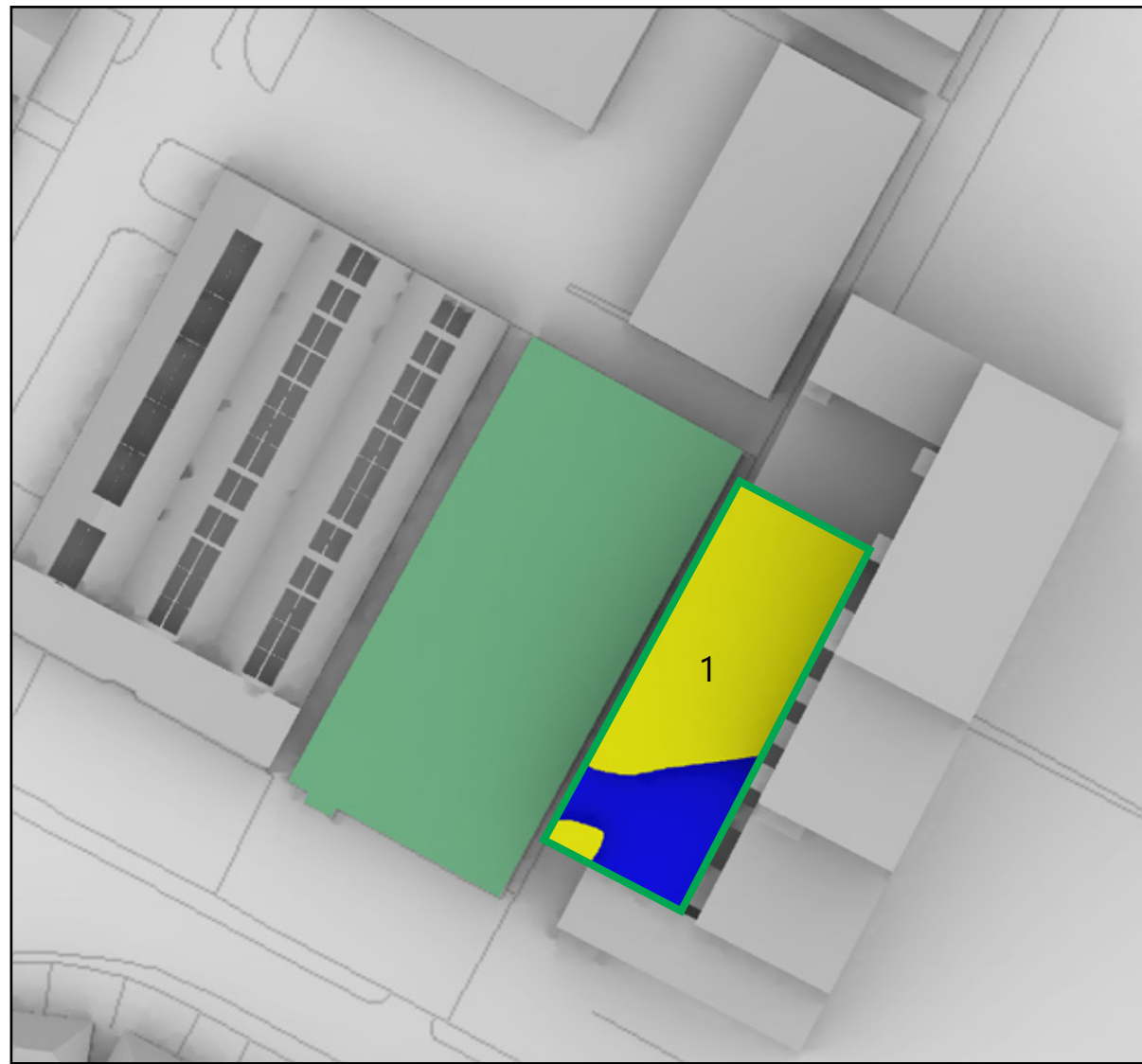
Project Hayes Acquisition

Title Sunlight Amenity Study
Existing vs Proposed
21st March

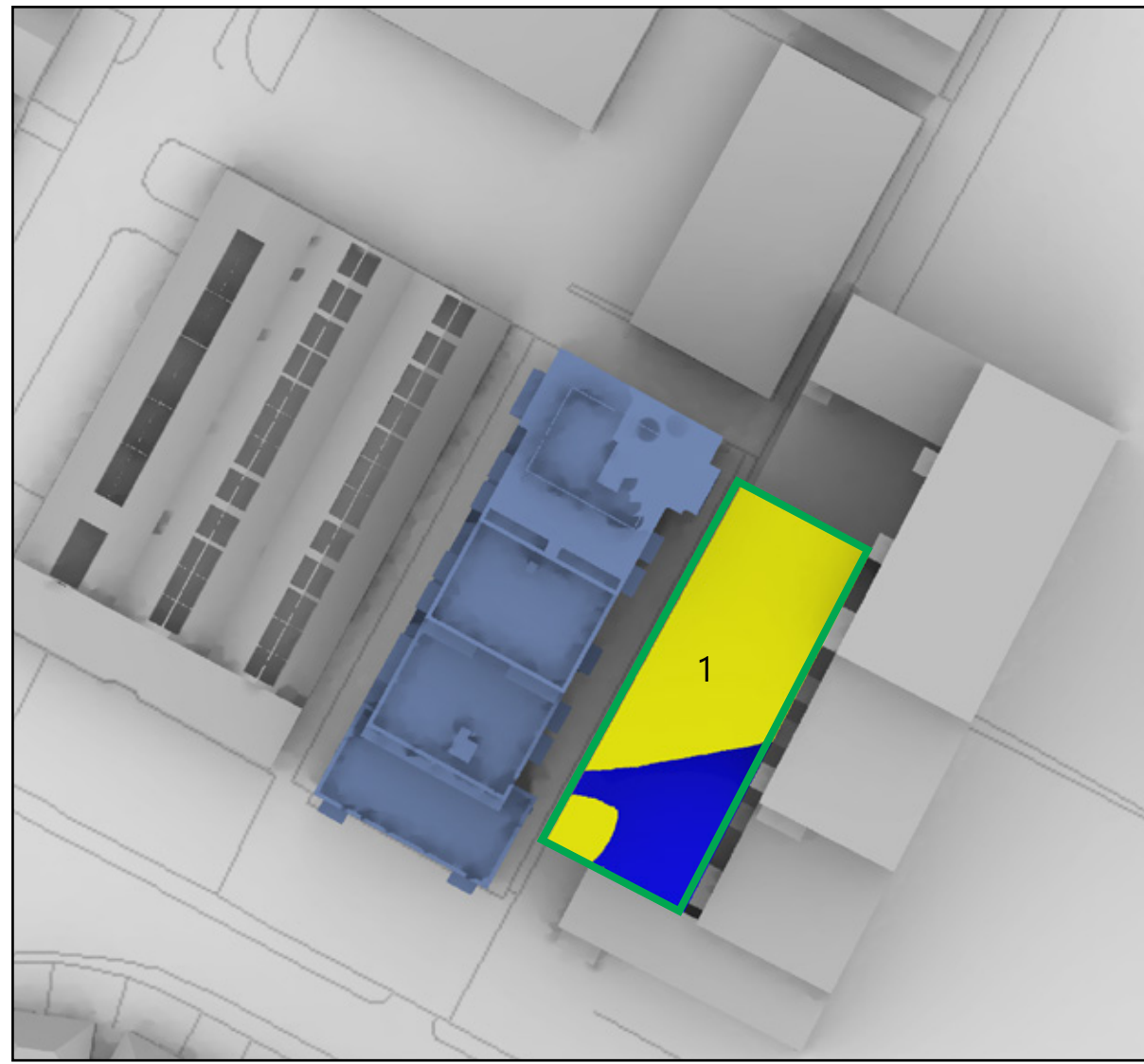
Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix SA01 Page no. SA01



Existing Scenario



Proposed Scenario

Area	Property	Total Area (sq.m)	Existing area more than 2 hours (sq.m)	Existing % more than 2 hours	Proposed area more than 2 hours (sq.m)	Proposed % more than 2 hours	Retained (Pr/Ex)
1	Block D	786.60	559.92	71.0	562.63	72.0	1.00

YES

BRE's Sun On Ground
Area seing at least two
hours of sunlight

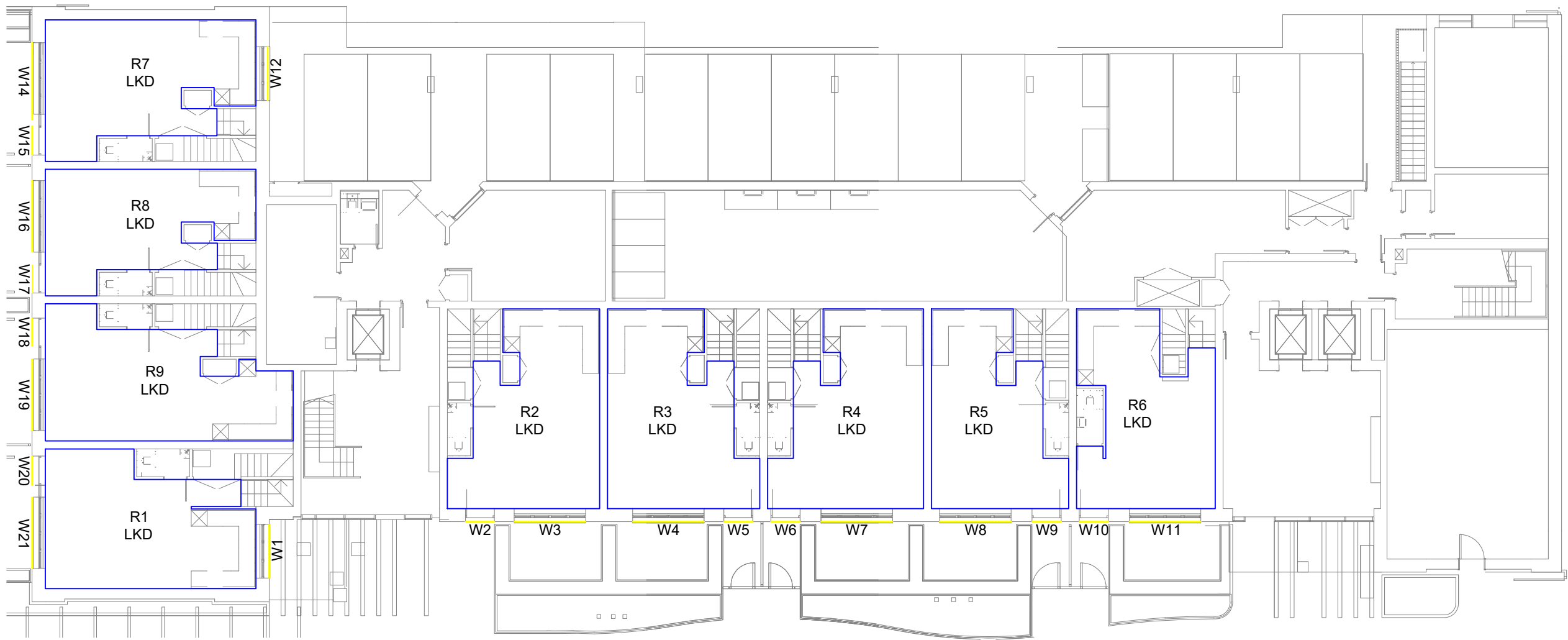
NO

Day: 21st March
Latitude: 51.4°N
Effective day length: 10 hours
*Min solar angle 10°
(BR209 3.3.8)



Appendix 5

Results of the internal amenity within the proposed dwellings



Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
15406-A-(72) - 102A_04.dwg
15406-A-(72) - 102B_04.dwg
15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
15406-A-(72) - 106_02.dwg
15406-A-(72) - 107_03.dwg
15406-A-(72) - 108_00.dwg
15406-A-(72) - 109_03.dwg
15406-A-(72) - 110_03.dwg
15406-A-(04) - 100_09.dwg
15406-A-(05) - 100_08.dwg
15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
Received 04/08/2020

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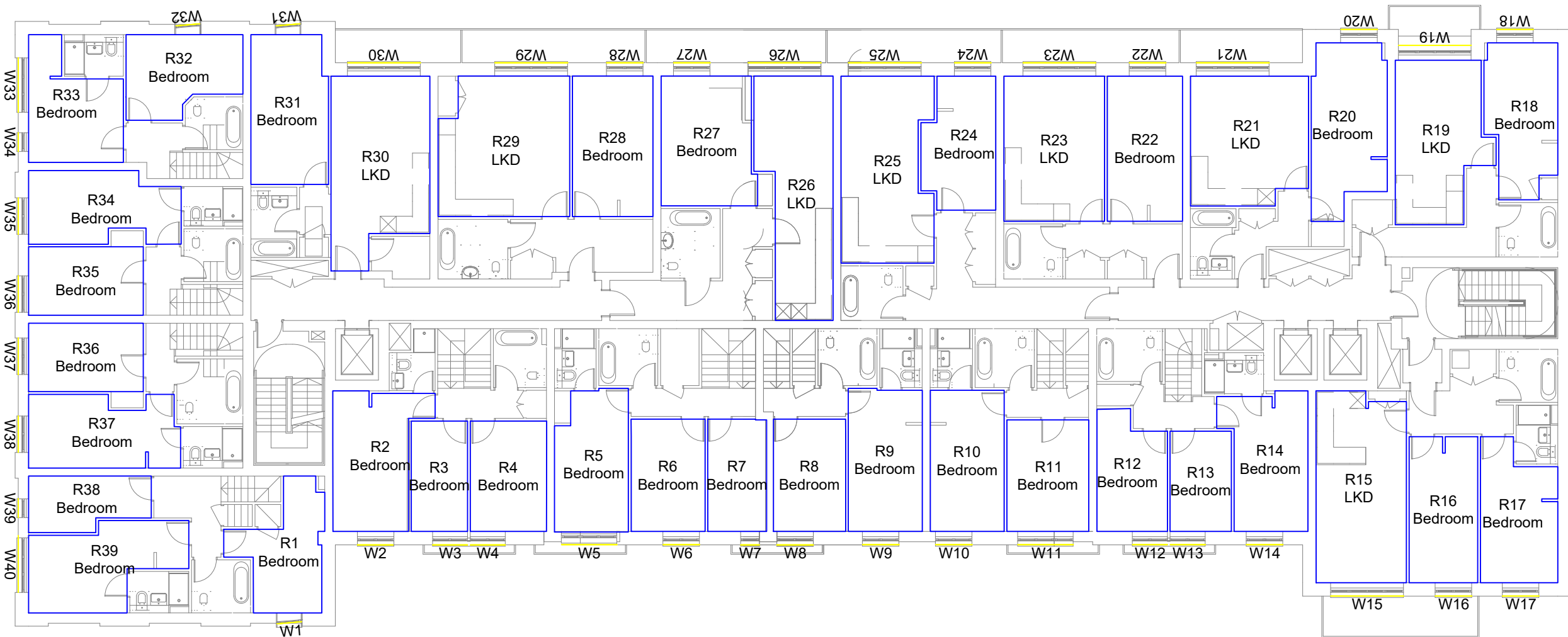
Project Hayes Acquisition

Title Ground Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID01



Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
15406-A-(72) - 102A_04.dwg
15406-A-(72) - 102B_04.dwg
15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
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15406-A-(04) - 100_09.dwg
15406-A-(05) - 100_08.dwg
15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
Received 04/08/2020

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Project Hayes Acquisition

Title First Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID02

Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
15406-A-(72) - 102A_04.dwg
15406-A-(72) - 102B_04.dwg
15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
15406-A-(72) - 106_02.dwg
15406-A-(72) - 107_03.dwg
15406-A-(72) - 108_00.dwg
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15406-A-(04) - 100_09.dwg
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15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
Received 04/08/2020

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Site Photographs
Ordnance Survey

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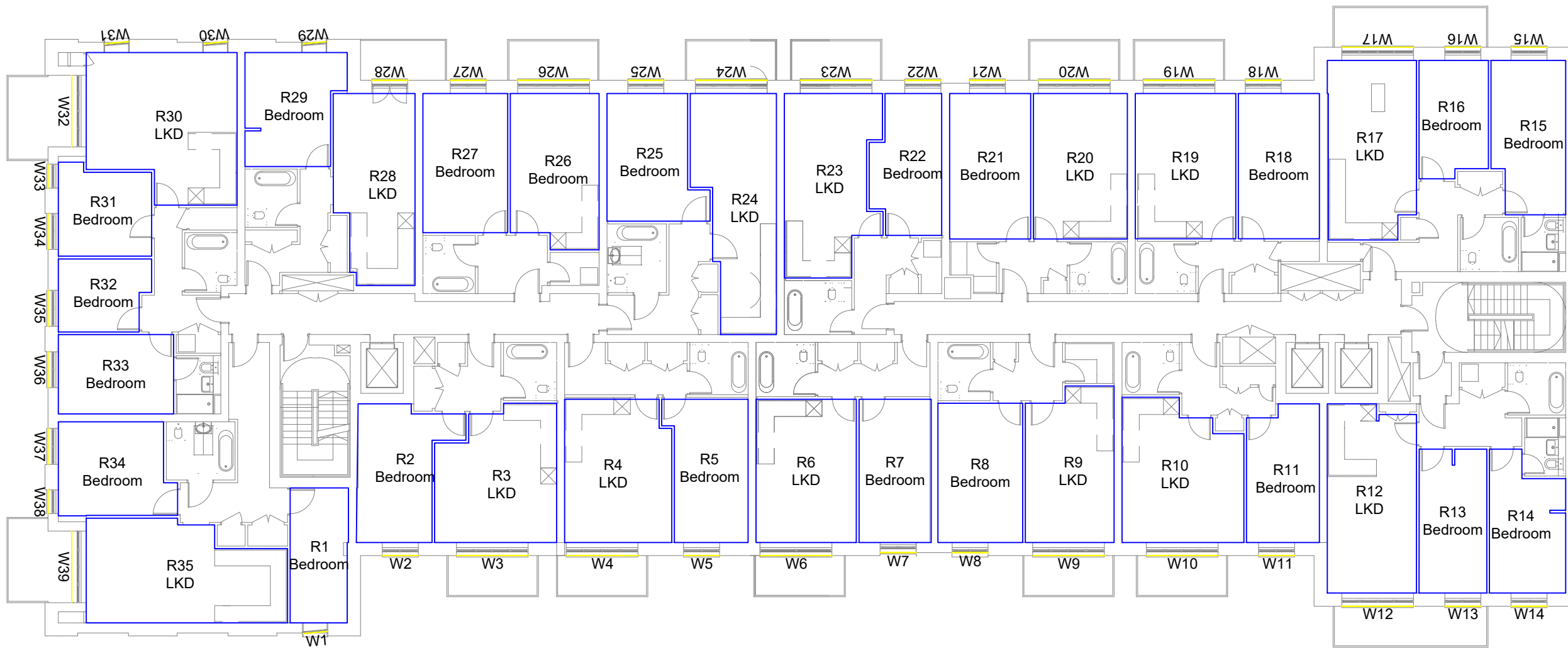
Project Hayes Acquisition

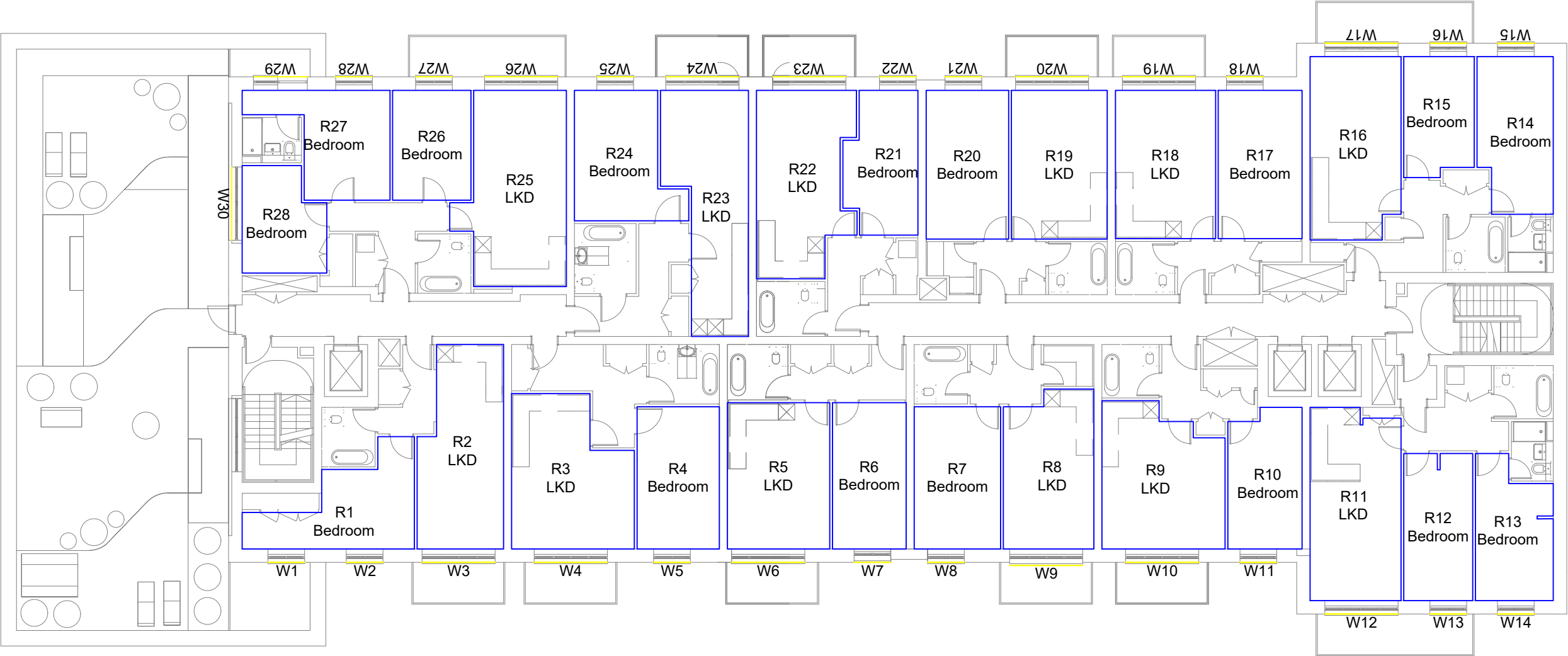
Title Second and Third Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID03





Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
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15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
15406-A-(72) - 106_02.dwg
15406-A-(72) - 107_03.dwg
15406-A-(72) - 108_00.dwg
15406-A-(72) - 109_03.dwg
15406-A-(72) - 110_03.dwg
15406-A-(04) - 100_09.dwg
15406-A-(05) - 100_08.dwg
15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
Received 04/08/2020

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Project Hayes Acquisition

Title Fourth Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID04

Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
15406-A-(72) - 102A_04.dwg
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15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
Received 04/08/2020

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Site Photographs
Ordnance Survey

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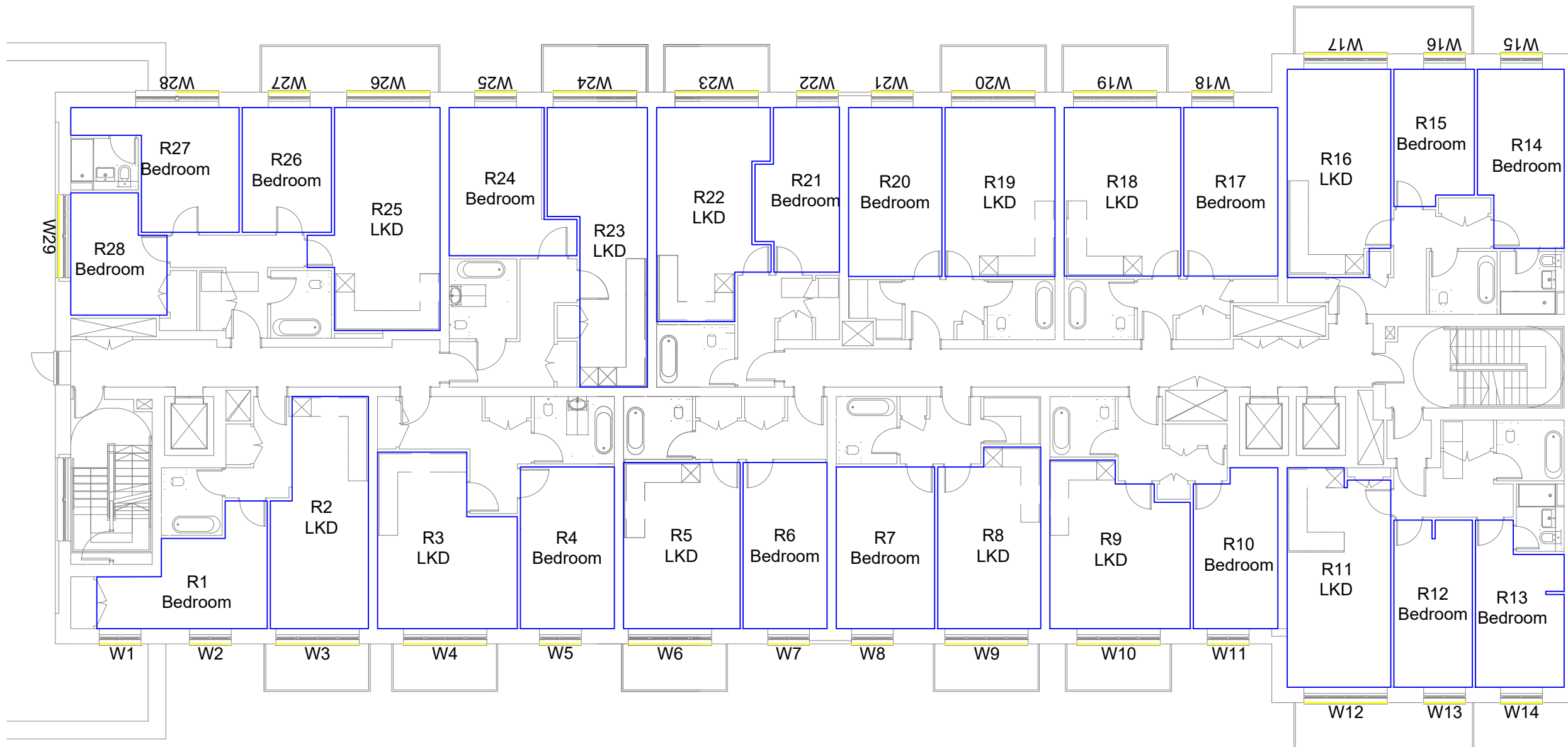
Project Hayes Acquisition

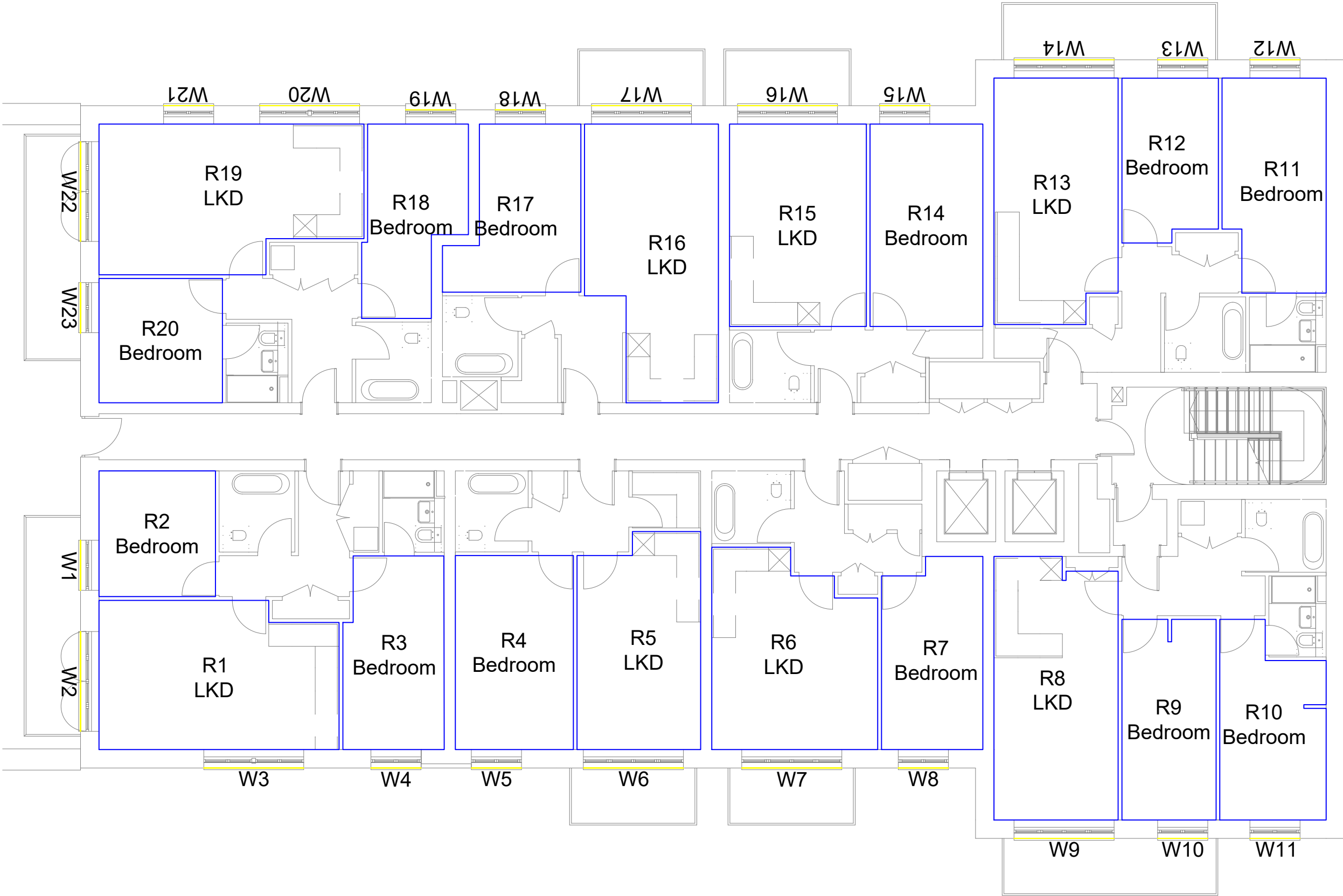
Title Fifth Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID05





Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
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15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
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15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
15406-A-(72) - 106_02.dwg
15406-A-(72) - 107_03.dwg
15406-A-(72) - 108_00.dwg
15406-A-(72) - 109_03.dwg
15406-A-(72) - 110_03.dwg
15406-A-(04) - 100_09.dwg
15406-A-(05) - 100_08.dwg
15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
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Received 04/08/2020

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Site Photographs
Ordnance Survey



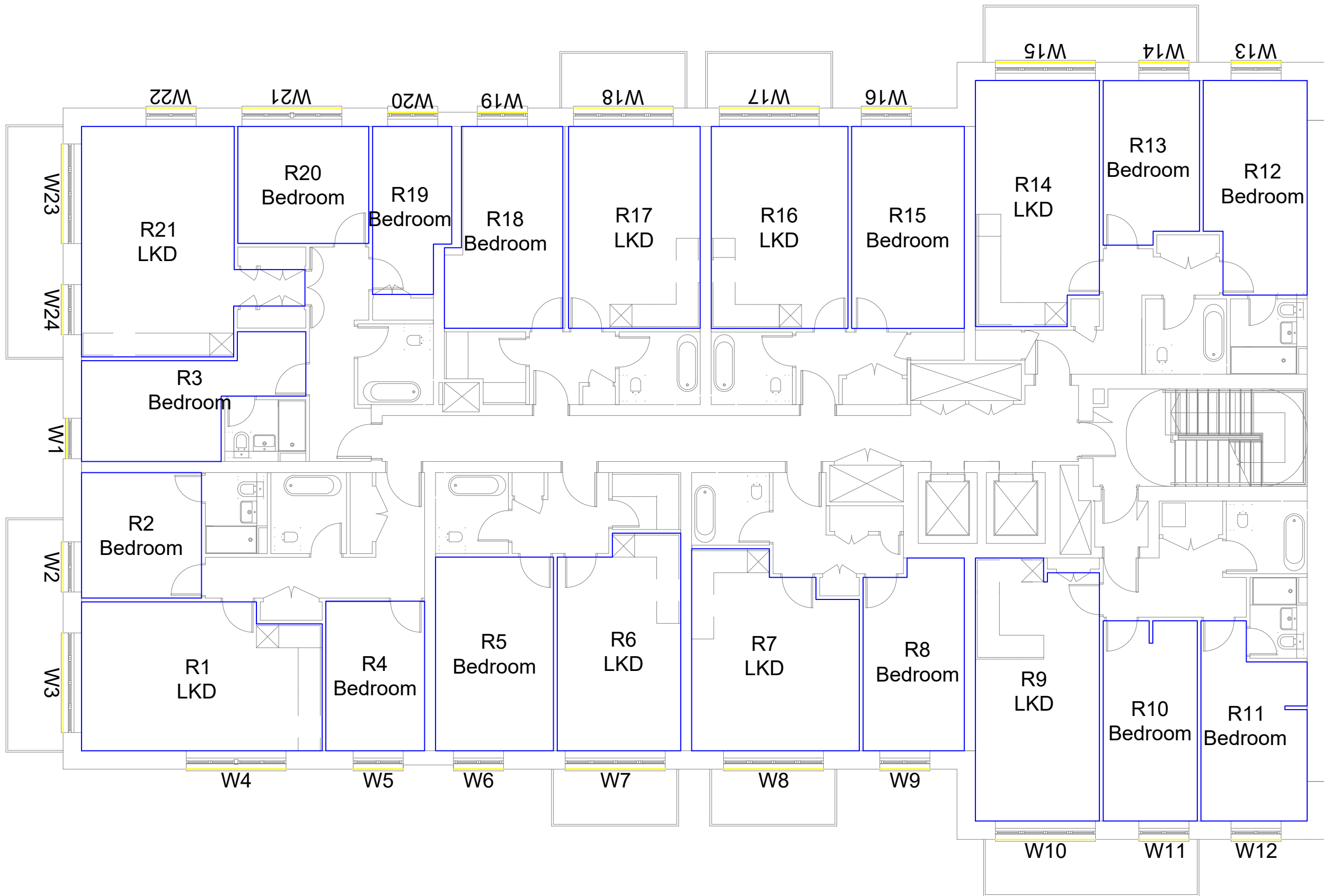
Project Hayes Acquisition

Title Sixth Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID06



Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
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15406-A-(72) - 102B_04.dwg
15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
15406-A-(72) - 106_02.dwg
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15406-A-(72) - 109_03.dwg
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15406-A-(05) - 100_08.dwg
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15406-A-(05) - 102_06.dwg
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Received 04/08/2020

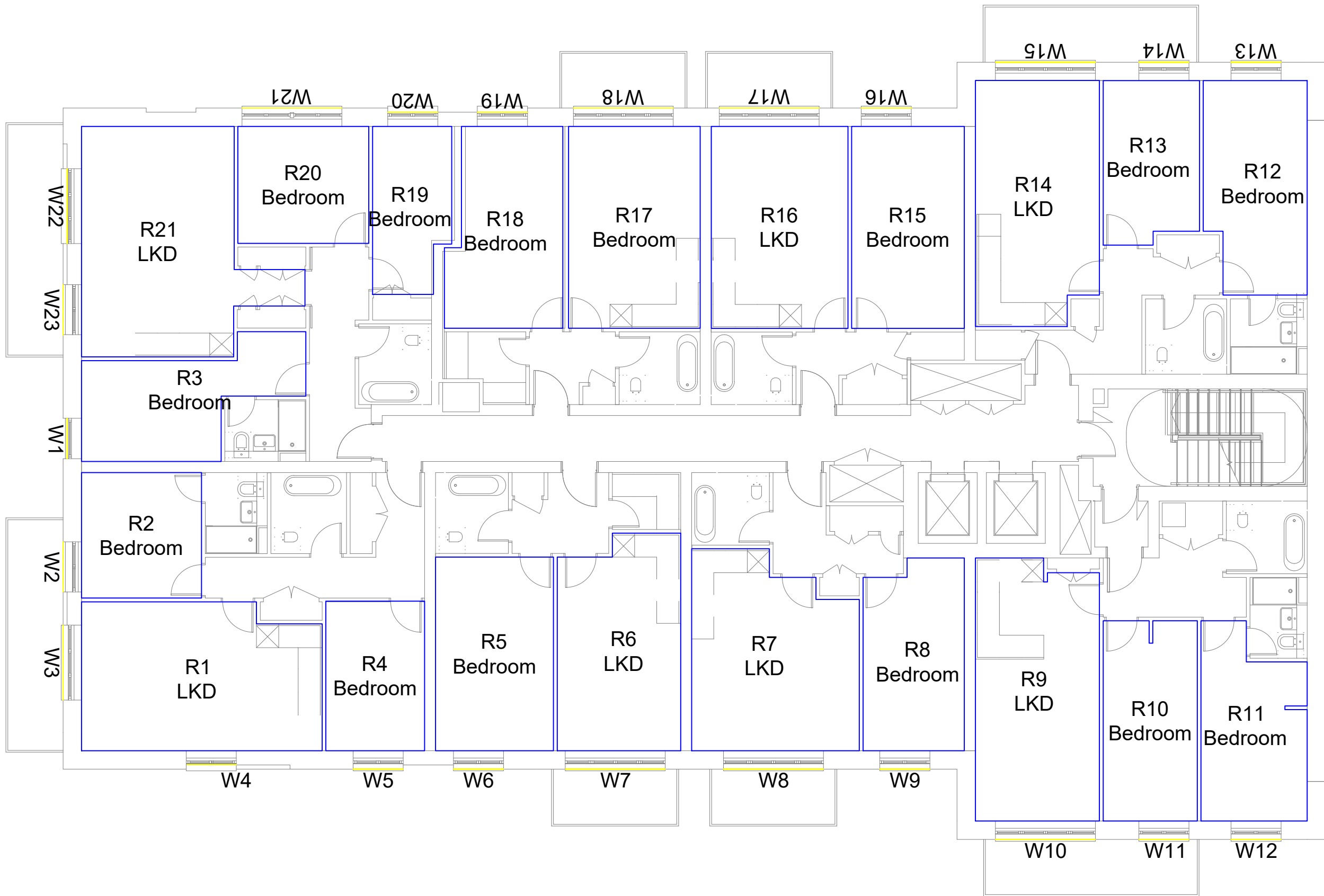
EB7 Ltd
Site Photographs
Ordnance Survey

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Project Hayes Acquisition

Title Seventh Floor Room Layout

Drawn	AP	Checked	--
Date	05/08/2020	Project	3252
Rel no.	08	Prefix	ID01
		Page no.	ID07



Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
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15406-A-(72) - 100B_04.dwg
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15406-A-(72) - 101B_04.dwg
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15406-A-(04) - 100_09.dwg
15406-A-(05) - 100_08.dwg
15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
Received 04/08/2020

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Ordnance Survey



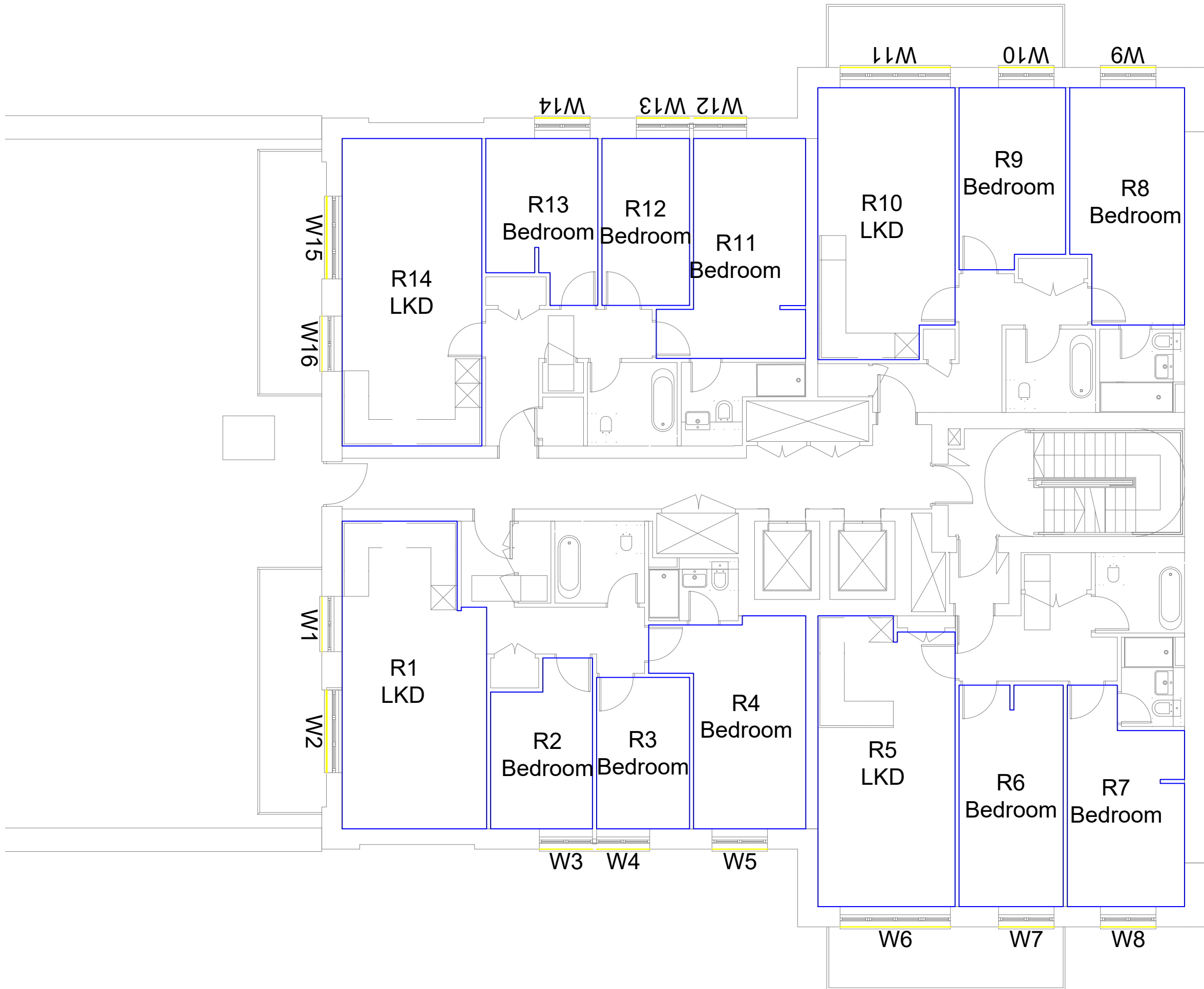
Project Hayes Acquisition

Title Eighth Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID08



Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
15406-A-(72) - 100B_04.dwg
15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
15406-A-(72) - 102A_04.dwg
15406-A-(72) - 102B_04.dwg
15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
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15406-A-(72) - 109_03.dwg
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15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
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Received 04/08/2020

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Site Photographs
Ordnance Survey



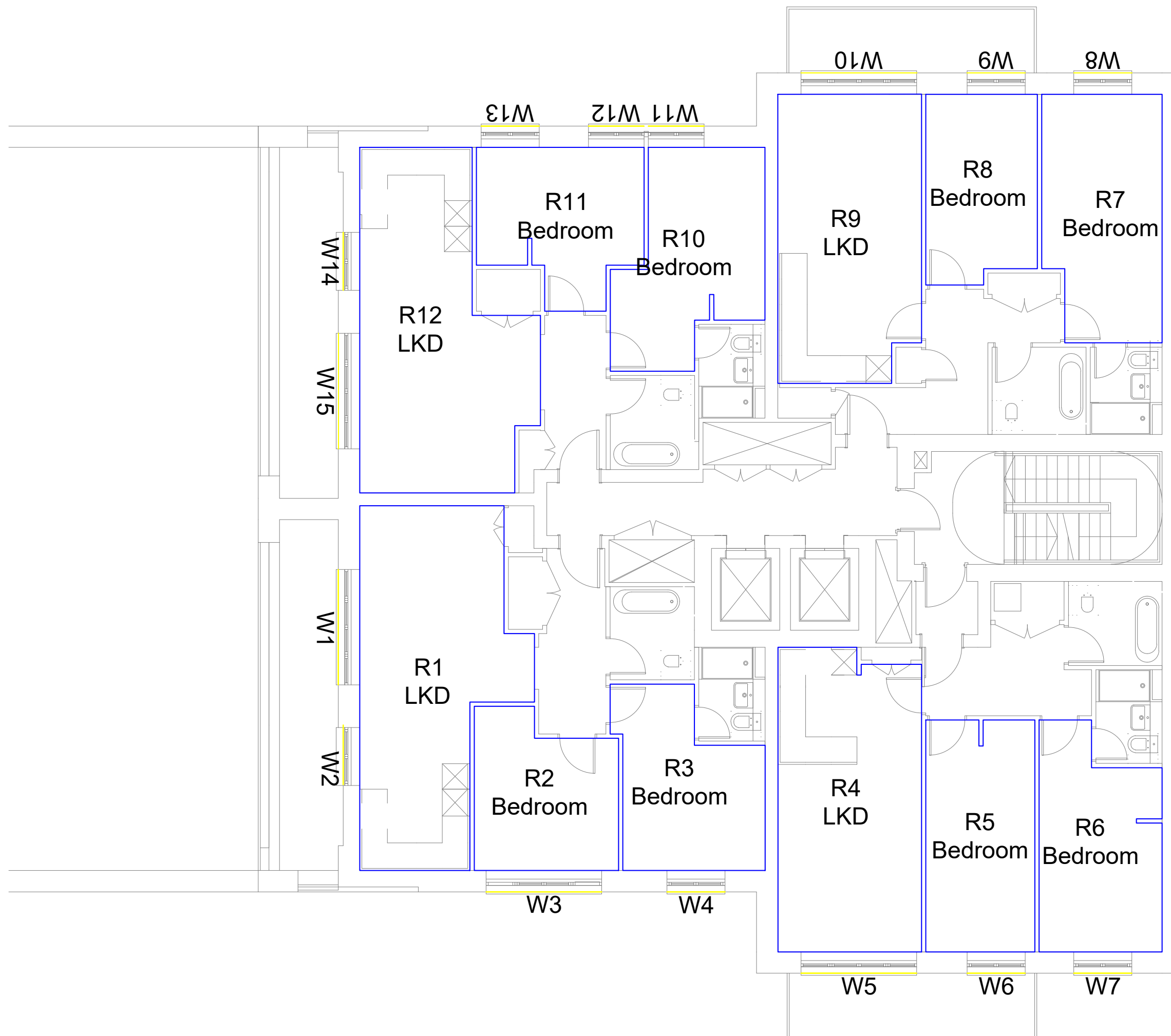
Project Hayes Acquisition

Title Ninth Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID09



Sources of information

Terrain Surveys Ltd
TS16-053W1-2D-MM-RevA.dwg
TS16-053W1-3D-MM-RevA.dwg
Received 04/03/2016

Tatehindle Limited
15406-A-(72) - 100A_05.dwg
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15406-A-(72) - 101A_06.dwg
15406-A-(72) - 101B_04.dwg
15406-A-(72) - 102A_04.dwg
15406-A-(72) - 102B_04.dwg
15406-A-(72) - 104A_02.dwg
15406-A-(72) - 104B_02.dwg
15406-A-(72) - 105A_03.dwg
15406-A-(72) - 105B_02.dwg
15406-A-(72) - 106_02.dwg
15406-A-(72) - 107_03.dwg
15406-A-(72) - 108_00.dwg
15406-A-(72) - 109_03.dwg
15406-A-(72) - 110_03.dwg
15406-A-(04) - 100_09.dwg
15406-A-(05) - 100_08.dwg
15406-A-(05) - 101_08.dwg
15406-A-(05) - 102_06.dwg
15406-A-(05) - 103_03.dwg
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Title Tenth Floor
Room Layout

Drawn AP Checked --

Date 05/08/2020 Project 3252

Rel no. 08 Prefix ID01 Page no. ID10

Floor	Room ID	Window ID	Room Use	VSC	Win. Trans.	Glazing Area	Theta	Room Area	Room	Split Calc Multiplier	ADF	TOTAL ADF
Proposed												
Ground	R1	W1	LKD	0.14	0.68	0.98	4.05	153.53	0.72	1.00	0.0	
		W20-L	LKD	28.47	0.68	0.76	66.94	153.53	0.72	0.15	0.1	
		W20-U	LKD	26.55	0.68	1.24	63.65	153.53	0.72	1.00	0.7	
		W21-L	LKD	32.32	0.68	1.84	73.92	153.53	0.72	0.15	0.2	
		W21-U	LKD	29.37	0.68	3.03	68.54	153.53	0.72	1.00	1.9	3.0
Ground	R2	W2-L	LKD	12.12	0.68	0.75	39.33	149.77	0.72	0.15	0.0	
		W2-U	LKD	10.31	0.68	1.23	35.95	149.77	0.72	1.00	0.4	
		W3-L	LKD	14.11	0.68	1.84	42.86	149.77	0.72	0.15	0.1	
		W3-U	LKD	11.70	0.68	3.04	38.55	149.77	0.72	1.00	1.1	1.7
Ground	R3	W4-L	LKD	14.83	0.68	1.84	44.12	149.81	0.72	0.15	0.1	
		W4-U	LKD	12.29	0.68	3.04	39.62	149.81	0.72	1.00	1.1	
		W5-L	LKD	11.86	0.68	0.75	38.85	149.81	0.72	0.15	0.0	
		W5-U	LKD	9.81	0.68	1.23	34.97	149.81	0.72	1.00	0.4	1.7
Ground	R4	W6-L	LKD	11.24	0.68	0.75	37.71	152.59	0.72	0.15	0.0	
		W6-U	LKD	9.15	0.68	1.23	33.68	152.59	0.72	1.00	0.4	
		W7-L	LKD	13.99	0.68	1.84	42.66	152.59	0.72	0.15	0.1	
		W7-U	LKD	11.01	0.68	3.04	37.28	152.59	0.72	1.00	1.1	1.6
Ground	R5	W8-L	LKD	13.22	0.68	1.85	41.30	138.24	0.73	0.15	0.1	
		W8-U	LKD	10.19	0.68	3.04	35.72	138.24	0.73	1.00	1.1	
		W9-L	LKD	9.59	0.68	0.75	34.56	138.24	0.73	0.15	0.0	
		W9-U	LKD	7.35	0.68	1.23	29.95	138.24	0.73	1.00	0.4	1.7
Ground	R6	W10-L	LD	9.31	0.68	0.75	34.01	99.45	0.73	0.15	0.1	
		W10-U	LD	7.39	0.68	1.23	30.03	99.45	0.73	1.00	0.5	
		W11-L	LD	10.46	0.68	1.84	36.22	99.45	0.73	0.15	0.1	
		W11-U	LD	7.69	0.68	3.04	30.69	99.45	0.73	1.00	1.4	2.1
Ground	R7	W12	LKD	0.00	0.68	0.98	0.00	151.10	0.73	1.00	0.0	
		W14-L	LKD	32.79	0.68	2.00	74.83	151.10	0.73	0.15	0.2	
		W14-U	LKD	29.76	0.68	3.29	69.22	151.10	0.73	1.00	2.2	
		W15-L	LKD	28.63	0.68	0.75	67.22	151.10	0.73	0.15	0.1	
		W15-U	LKD	26.72	0.68	1.23	63.93	151.10	0.73	1.00	0.7	3.2
Ground	R8	W16-L	LKD	33.05	0.68	1.85	75.34	138.94	0.73	0.15	0.2	
		W16-U	LKD	29.58	0.68	3.05	68.90	138.94	0.73	1.00	2.2	
		W17-L	LKD	28.24	0.68	0.71	66.55	138.94	0.73	0.15	0.1	
		W17-U	LKD	25.89	0.68	1.17	62.53	138.94	0.73	1.00	0.8	3.3
Ground	R9	W18-L	LKD	28.49	0.68	0.72	66.99	158.61	0.72	0.15	0.1	
		W18-U	LKD	26.29	0.68	1.18	63.20	158.61	0.72	1.00	0.7	
		W19-L	LKD	32.93	0.68	1.85	75.11	158.61	0.72	0.15	0.2	
		W19-U	LKD	29.46	0.68	3.04	68.69	158.61	0.72	1.00	1.9	2.8
First	R1	W1-L	Bedroom	9.80	0.68	0.62	34.96	72.06	0.75	0.15	0.1	
		W1-U	Bedroom	6.29	0.68	1.02	27.59	72.06	0.75	1.00	0.6	0.7
First	R2	W2-L	Bedroom	11.19	0.68	0.91	37.61	82.18	0.74	0.15	0.1	
		W2-U	Bedroom	10.60	0.68	1.50	36.50	82.18	0.74	1.00	1.0	1.1
First	R3	W3-L	Bedroom	9.04	0.68	0.89	33.47	50.54	0.75	0.15	0.1	
		W3-U	Bedroom	3.01	0.68	1.46	18.92	50.54	0.75	1.00	0.8	1.0
First	R4	W4-L	Bedroom	9.43	0.68	0.89	34.25	60.65	0.74	0.15	0.1	
		W4-U	Bedroom	2.89	0.68	1.46	18.53	60.65	0.74	1.00	0.7	0.8
First	R5	W5-L	Bedroom	10.53	0.68	1.40	36.35	71.13	0.74	0.15	0.2	
		W5-U	Bedroom	3.08	0.68	2.31	19.14	71.13	0.74	1.00	0.9	1.1
First	R6	W6-L	Bedroom	14.65	0.68	0.94	43.80	60.27	0.74	0.15	0.2	
		W6-U	Bedroom	13.12	0.68	1.52	41.13	60.27	0.74	1.00	1.6	1.7
First	R7	W7-L	Bedroom	6.84	0.68	0.48	28.83	52.57	0.75	0.15	0.1	
		W7-U	Bedroom	3.28	0.68	0.78	19.78	52.57	0.75	1.00	0.5	0.5
First	R8	W8-L	Bedroom	8.40	0.68	0.92	32.16	59.33	0.74	0.15	0.1	
		W8-U	Bedroom	2.18	0.68	1.52	15.99	59.33	0.74	1.00	0.6	0.7
First	R9	W9-L	Bedroom	14.62	0.68	0.94	43.76	72.58	0.74	0.15	0.1	
		W9-U	Bedroom	12.01	0.68	1.53	39.13	72.58	0.74	1.00	1.2	1.3
First	R10	W10-L	Bedroom	14.13	0.68	0.94	42.91	71.92	0.74	0.15	0.1	
		W10-U	Bedroom	11.96	0.68	1.52	39.03	71.92	0.74	1.00	1.2	1.3
First	R11	W11-L	Bedroom	7.24	0.68	1.40	29.72	63.97	0.74	0.15	0.1	
		W11-U	Bedroom	2.62	0.68	2.31	17.61	63.97	0.74	1.00	0.9	1.1

Floor	Room ID	Window ID	Room Use	VSC	Win. Trans.	Glazing Area	Theta	Room Area	Room	Split Calc Multiplier	ADF	TOTAL ADF
First	R12	W12-L	Bedroom	5.37	0.68	0.88	25.41	60.24	0.74	0.15	0.1	0.6
		W12-U	Bedroom	1.91	0.68	1.45	14.94	60.24	0.74	1.00	0.5	
First	R13	W13-L	Bedroom	5.52	0.68	0.89	25.76	49.36	0.75	0.15	0.1	0.7
		W13-U	Bedroom	1.28	0.68	1.46	12.18	49.36	0.75	1.00	0.6	
First	R14	W14-L	Bedroom	8.66	0.68	0.94	32.70	78.22	0.74	0.15	0.1	0.9
		W14-U	Bedroom	7.01	0.68	1.52	29.20	78.22	0.74	1.00	0.9	
First	R15	W15-L	LD	3.56	0.68	1.82	20.61	71.27	0.73	0.15	0.1	0.9
		W15-U	LD	1.35	0.68	3.08	12.52	71.27	0.73	1.00	0.8	
First	R16	W16-L	Bedroom	3.06	0.68	0.89	19.08	73.85	0.74	0.15	0.1	0.3
		W16-U	Bedroom	0.74	0.68	1.54	9.44	73.85	0.74	1.00	0.3	
First	R17	W17-L	Bedroom	8.02	0.68	0.92	31.39	75.40	0.74	0.15	0.1	0.9
		W17-U	Bedroom	5.77	0.68	1.54	26.35	75.40	0.74	1.00	0.8	
First	R18	W18-L	Bedroom	26.88	0.68	0.92	64.22	74.24	0.74	0.15	0.2	2.1
		W18-U	Bedroom	25.18	0.68	1.52	61.34	74.24	0.74	1.00	1.9	
First	R19	W19-L	LKD	15.41	0.68	1.84	45.10	90.58	0.73	0.15	0.2	1.8
		W19-U	LKD	8.15	0.68	3.04	31.65	90.58	0.73	1.00	1.6	
First	R20	W20-L	Bedroom	19.75	0.68	0.92	52.37	87.43	0.74	0.15	0.1	1.2
		W20-U	Bedroom	12.19	0.68	1.52	39.45	87.43	0.74	1.00	1.0	
First	R21	W21-L	LKD	23.03	0.68	1.80	57.77	90.37	0.73	0.15	0.2	3.0
		W21-U	LKD	21.83	0.68	3.08	55.78	90.37	0.73	1.00	2.7	
First	R22	W22-L	Bedroom	17.03	0.68	0.90	47.84	74.36	0.73	0.15	0.1	1.3
		W22-U	Bedroom	11.70	0.68	1.54	38.55	74.36	0.73	1.00	1.2	
First	R23	W23-L	LKD	20.23	0.68	1.80	53.15	89.74	0.73	0.15	0.2	2.2
		W23-U	LKD	12.86	0.68	3.08	40.66	89.74	0.73	1.00	2.0	
First	R24	W24-L	Bedroom	23.17	0.68	0.90	57.99	66.70	0.74	0.15	0.2	2.3
		W24-U	Bedroom	24.12	0.68	1.54	59.57	66.70	0.74	1.00	2.1	
First	R25	W25-L	LKD	25.48	0.68	1.80	61.84	104.22	0.73	0.15	0.2	2.8
		W25-U	LKD	23.53	0.68	3.08	58.59	104.22	0.73	1.00	2.5	
First	R26	W26-L	LKD	18.79	0.68	1.79	50.77	109.45	0.73	0.15	0.2	1.9
		W26-U	LKD	13.29	0.68	3.09	41.43	109.45	0.73	1.00	1.7	
First	R27	W27-L	Bedroom	19.49	0.68	0.90	51.94	78.23	0.73	0.15	0.1	1.3
		W27-U	Bedroom	13.28	0.68	1.55	41.40	78.23	0.73	1.00	1.2	
First	R28	W28-L	Bedroom	20.42	0.68	0.90	53.46	75.60	0.73	0.15	0.1	1.9
		W28-U	Bedroom	22.56	0.68	1.55	56.99	75.60	0.73	1.00	1.7	
First	R29	W29-L	LKD	21.36	0.68	1.79	55.01	103.29	0.72	0.15	0.2	2.0
		W29-U	LKD	13.52	0.68	3.09	41.84	103.29	0.72	1.00	1.8	
First	R30	W30-L	LKD	18.23	0.68	1.79	49.84	105.77	0.73	0.15	0.2	1.8
		W30-U	LKD	11.71	0.68	3.08	38.58	105.77	0.73	1.00	1.6	
First	R31	W31-L	Bedroom	17.15	0.68	0.62	48.05	76.81	0.73	0.15	0.1	1.0
		W31-U	Bedroom	14.91	0.68	1.02	44.26	76.81	0.73	1.00	0.9	
First	R32	W32-L	Bedroom	14.39	0.68	0.62	43.35	63.37	0.74	0.15	0.1	1.1
		W32-U	Bedroom	12.55	0.68	1.02	40.10	63.37	0.74	1.00	1.0	
First	R33	W33-L	Bedroom	27.12	0.68	1.39	64.61	72.72	0.74	0.15	0.3	3.5
		W33-U	Bedroom	17.92	0.68	2.26	49.33	72.72	0.74	1.00	2.3	
		W34-L	Bedroom	22.60	0.68	0.47	57.05	72.72	0.74	0.15	0.1	
		W34-U	Bedroom	17.88	0.68	0.78	49.27	72.72	0.74	1.00	0.8	
First	R34	W35-L	Bedroom	31.21	0.68	0.93	71.85	76.04	0.74	0.15	0.2	2.2
		W35-U	Bedroom	28.71	0.68	1.51	67.37	76.04	0.74	1.00	2.0	
First	R35	W36-L	Bedroom	31.18	0.68	0.92	71.81	58.33	0.74	0.15	0.3	2.9
		W36-U	Bedroom	28.69	0.68	1.51	67.34	58.33	0.74	1.00	2.6	
First	R36	W37-L	Bedroom	31.19	0.68	0.93	71.82	58.31	0.74	0.15	0.3	2.9
		W37-U	Bedroom	28.69	0.68	1.51	67.34	58.31	0.74	1.00	2.6	
First	R37	W38-L	Bedroom	31.15	0.68	0.92	71.74	80.20	0.74	0.15	0.2	2.1
		W38-U	Bedroom	28.65	0.68	1.50	67.26	80.20	0.74	1.00	1.9	

Floor	Room ID	Window ID	Room Use	VSC	Win. Trans.	Glazing Area	Theta	Room Area	Room	Split Calc Multiplier	ADF	TOTAL ADF
First	R38	W39-L	Bedroom	22.46	0.68	0.48	56.82	52.78	0.75	0.15	0.1	1.2
		W39-U	Bedroom	17.75	0.68	0.78	49.05	52.78	0.75	1.00	1.1	
First	R39	W40-L	Bedroom	26.92	0.68	1.43	64.27	81.04	0.74	0.15	0.3	2.4
		W40-U	Bedroom	17.55	0.68	2.37	48.71	81.04	0.74	1.00	2.1	
Second	R1	W1-L	Bedroom	12.82	0.68	0.62	40.59	61.31	0.74	0.15	0.1	1.0
		W1-U	Bedroom	9.63	0.68	1.02	34.63	61.31	0.74	1.00	0.9	
Second	R2	W2-L	Bedroom	13.58	0.68	0.94	41.94	81.66	0.74	0.15	0.1	1.2
		W2-U	Bedroom	12.80	0.68	1.52	40.56	81.66	0.74	1.00	1.1	
Second	R3	W3-L	LD	12.45	0.68	1.84	39.92	73.37	0.74	0.15	0.2	1.7
		W3-U	LD	4.96	0.68	3.04	24.39	73.37	0.74	1.00	1.5	
Second	R4	W4-L	LD	13.56	0.68	1.84	41.90	62.57	0.74	0.15	0.3	2.1
		W4-U	LD	5.36	0.68	3.04	25.37	62.57	0.74	1.00	1.8	
Second	R5	W5-L	Bedroom	17.47	0.68	0.94	48.59	77.57	0.74	0.15	0.1	1.5
		W5-U	Bedroom	15.88	0.68	1.52	45.91	77.57	0.74	1.00	1.3	
Second	R6	W6-L	LD	12.82	0.68	1.84	40.59	58.68	0.74	0.15	0.3	2.2
		W6-U	LD	5.07	0.68	3.04	24.66	58.68	0.74	1.00	1.9	
Second	R7	W7-L	Bedroom	15.45	0.68	0.93	45.17	73.14	0.74	0.15	0.1	1.3
		W7-U	Bedroom	11.03	0.68	1.54	37.32	73.14	0.74	1.00	1.2	
Second	R8	W8-L	Bedroom	15.11	0.68	0.93	44.59	79.07	0.73	0.15	0.1	1.2
		W8-U	Bedroom	11.01	0.68	1.54	37.26	79.07	0.73	1.00	1.1	
Second	R9	W9-L	LD	9.63	0.68	1.84	34.62	59.59	0.74	0.15	0.2	1.7
		W9-U	LD	3.09	0.68	3.02	19.19	59.59	0.74	1.00	1.5	
Second	R10	W10-L	LD	7.81	0.68	1.84	30.95	68.92	0.73	0.15	0.2	1.2
		W10-U	LD	2.09	0.68	3.04	15.66	68.92	0.73	1.00	1.0	
Second	R11	W11-L	Bedroom	10.23	0.68	0.94	35.80	70.39	0.74	0.15	0.1	1.2
		W11-U	Bedroom	8.63	0.68	1.52	32.64	70.39	0.74	1.00	1.1	
Second	R12	W12-L	LD	5.40	0.68	1.80	25.46	71.26	0.73	0.15	0.1	1.0
		W12-U	LD	1.62	0.68	3.08	13.73	71.26	0.73	1.00	0.9	
Second	R13	W13-L	Bedroom	4.87	0.68	0.90	24.15	73.84	0.74	0.15	0.1	0.5
		W13-U	Bedroom	1.28	0.68	1.54	12.22	73.84	0.74	1.00	0.4	
Second	R14	W14-L	Bedroom	9.94	0.68	0.92	35.23	75.40	0.74	0.15	0.1	1.0
		W14-U	Bedroom	7.62	0.68	1.54	30.54	75.40	0.74	1.00	0.9	
Second	R15	W15-L	Bedroom	31.41	0.68	0.92	72.23	77.45	0.74	0.15	0.2	2.2
		W15-U	Bedroom	29.03	0.68	1.52	67.94	77.45	0.74	1.00	2.0	
Second	R16	W16-L	Bedroom	25.91	0.68	0.92	62.56	60.47	0.74	0.15	0.2	2.1
		W16-U	Bedroom	17.61	0.68	1.52	48.81	60.47	0.74	1.00	1.9	
Second	R17	W17-L	LKD	26.56	0.68	1.84	63.66	98.37	0.73	0.15	0.3	2.4
		W17-U	LKD	16.97	0.68	3.04	47.74	98.37	0.73	1.00	2.1	
Second	R18	W18-L	Bedroom	28.75	0.68	0.92	67.44	79.49	0.73	0.15	0.2	2.0
		W18-U	Bedroom	26.75	0.68	1.56	63.98	79.49	0.73	1.00	1.8	
Second	R19	W19-L	LKD	26.33	0.68	1.81	63.27	91.42	0.73	0.15	0.3	2.6
		W19-U	LKD	16.87	0.68	3.07	47.58	91.42	0.73	1.00	2.3	
Second	R20	W20-L	LKD	26.88	0.68	1.81	64.21	87.61	0.73	0.15	0.3	2.7
		W20-U	LKD	17.12	0.68	3.07	47.99	87.61	0.73	1.00	2.4	
Second	R21	W21-L	Bedroom	31.53	0.68	0.90	72.44	79.61	0.73	0.15	0.2	2.1
		W21-U	Bedroom	29.03	0.68	1.54	67.93	79.61	0.73	1.00	1.9	
Second	R22	W22-L	Bedroom	31.52	0.68	0.91	72.43	69.38	0.74	0.15	0.2	2.5
		W22-U	Bedroom	29.05	0.68	1.54	67.97	69.38	0.74	1.00	2.3	
Second	R23	W23-L	LKD	26.94	0.68	1.80	64.31	105.20	0.73	0.15	0.2	2.3
		W23-U	LKD	17.17	0.68	3.08	48.07	105.20	0.73	1.00	2.1	
Second	R24	W24-L	LKD	26.86	0.68	1.80	64.17	114.62	0.73	0.15	0.2	2.1
		W24-U	LKD	17.18	0.68	3.08	48.09	114.62	0.73	1.00	1.9	
Second	R25	W25-L	Bedroom	30.57	0.68	0.90	70.69	78.15	0.74	0.15	0.2	2.1
		W25-U	Bedroom	28.15	0.68	1.55	66.39	78.15	0.74	1.00	2.0	

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Second	R26	W26-L	Bedroom	27.64	0.68	1.80	65.51	87.34	0.73	0.15	0.3	2.8
		W26-U	Bedroom	17.90	0.68	3.08	49.30	87.34	0.73	1.00	2.5	
Second	R27	W27-L	Bedroom	28.65	0.68	0.90	67.27	79.07	0.73	0.15	0.2	1.9
		W27-U	Bedroom	25.71	0.68	1.55	62.23	79.07	0.73	1.00	1.8	
Second	R28	W28-L	LD	19.82	0.68	0.90	52.47	68.65	0.73	0.15	0.2	1.5
		W28-U	LD	12.74	0.68	1.55	40.45	68.65	0.73	1.00	1.3	
Second	R29	W29-L	Bedroom	23.18	0.68	0.62	58.02	76.60	0.74	0.15	0.1	1.2
		W29-U	Bedroom	20.01	0.68	1.02	52.79	76.60	0.74	1.00	1.1	
Second	R30	W30-L	LKD	21.96	0.68	0.62	56.00	120.24	0.72	0.15	0.1	2.8
		W30-U	LKD	19.74	0.68	1.02	52.34	120.24	0.72	1.00	0.6	
		W31-L	LKD	21.75	0.68	0.62	55.65	120.24	0.72	0.15	0.1	
		W31-U	LKD	19.79	0.68	1.02	52.42	120.24	0.72	1.00	0.6	
		W32-L	LKD	18.25	0.68	1.84	49.88	120.24	0.72	0.15	0.2	
		W32-U	LKD	10.58	0.68	3.04	36.46	120.24	0.72	1.00	1.3	
Second	R31	W33-L	Bedroom	26.55	0.68	0.61	63.64	61.18	0.74	0.15	0.1	4.5
		W33-U	Bedroom	23.29	0.68	1.01	58.20	61.18	0.74	1.00	1.4	
		W34-L	Bedroom	32.77	0.68	0.93	74.79	61.18	0.74	0.15	0.3	
		W34-U	Bedroom	30.21	0.68	1.53	70.05	61.18	0.74	1.00	2.6	
Second	R32	W35-L	Bedroom	32.76	0.68	0.93	74.78	51.82	0.75	0.15	0.3	3.5
		W35-U	Bedroom	30.22	0.68	1.53	70.06	51.82	0.75	1.00	3.2	
Second	R33	W36-L	Bedroom	32.80	0.68	0.93	74.86	65.58	0.74	0.15	0.2	2.7
		W36-U	Bedroom	30.26	0.68	1.53	70.13	65.58	0.74	1.00	2.4	
Second	R34	W37-L	Bedroom	32.78	0.68	0.93	74.81	72.70	0.73	0.15	0.2	3.7
		W37-U	Bedroom	30.25	0.68	1.53	70.10	72.70	0.73	1.00	2.2	
		W38-L	Bedroom	26.47	0.68	0.61	63.51	72.70	0.73	0.15	0.1	
		W38-U	Bedroom	23.31	0.68	1.01	58.22	72.70	0.73	1.00	1.2	
Second	R35	W39-L	LKD	18.16	0.68	1.84	49.74	114.98	0.72	0.15	0.2	1.6
		W39-U	LKD	10.56	0.68	3.04	36.43	114.98	0.72	1.00	1.4	
Third	R1	W1-L	Bedroom	16.63	0.68	0.62	47.17	61.31	0.74	0.15	0.1	1.2
		W1-U	Bedroom	13.62	0.68	1.02	42.01	61.31	0.74	1.00	1.1	
Third	R2	W2-L	Bedroom	16.71	0.68	0.94	47.31	81.66	0.74	0.15	0.1	1.4
		W2-U	Bedroom	15.46	0.68	1.52	45.18	81.66	0.74	1.00	1.3	
Third	R3	W3-L	LKD	18.11	0.68	1.84	49.64	96.57	0.73	0.15	0.2	1.9
		W3-U	LKD	11.27	0.68	3.04	37.75	96.57	0.73	1.00	1.7	
Third	R4	W4-L	LKD	18.44	0.68	1.84	50.19	93.46	0.73	0.15	0.2	2.0
		W4-U	LKD	11.31	0.68	3.04	37.84	93.46	0.73	1.00	1.8	
Third	R5	W5-L	Bedroom	20.59	0.68	0.94	53.74	77.57	0.74	0.15	0.1	1.6
		W5-U	Bedroom	18.54	0.68	1.52	50.35	77.57	0.74	1.00	1.5	
Third	R6	W6-L	LKD	17.35	0.68	1.84	48.38	90.38	0.73	0.15	0.2	1.9
		W6-U	LKD	10.06	0.68	3.04	35.47	90.38	0.73	1.00	1.7	
Third	R7	W7-L	Bedroom	17.93	0.68	0.94	49.35	73.14	0.74	0.15	0.1	1.4
		W7-U	Bedroom	13.61	0.68	1.53	41.99	73.14	0.74	1.00	1.3	
Third	R8	W8-L	Bedroom	17.54	0.68	0.94	48.70	79.07	0.73	0.15	0.1	1.3
		W8-U	Bedroom	13.35	0.68	1.52	41.53	79.07	0.73	1.00	1.2	
Third	R9	W9-L	LKD	13.79	0.68	1.84	42.30	87.34	0.73	0.15	0.2	1.6
		W9-U	LKD	6.73	0.68	3.02	28.58	87.34	0.73	1.00	1.4	
Third	R10	W10-L	LD	11.68	0.68	1.84	38.52	68.92	0.73	0.15	0.2	1.8
		W10-U	LD	4.95	0.68	3.04	24.36	68.92	0.73	1.00	1.6	
Third	R11	W11-L	Bedroom	12.05	0.68	0.94	39.20	70.39	0.74	0.15	0.1	1.3
		W11-U	Bedroom	10.46	0.68	1.52	36.22	70.39	0.74	1.00	1.2	
Third	R12	W12-L	LD	9.54	0.68	1.80	34.46	71.32	0.73	0.15	0.2	1.5
		W12-U	LD	3.37	0.68	3.08	20.04	71.32	0.73	1.00	1.3	
Third	R13	W13-L	Bedroom	8.42	0.68	0.90	32.21	73.84	0.74	0.15	0.1	0.7
		W13-U	Bedroom	3.10	0.68	1.54	19.21	73.84	0.74	1.00	0.6	
Third	R14	W14-L	Bedroom	12.32	0.68	0.92	39.68	75.40	0.74	0.15	0.1	1.2
		W14-U	Bedroom	9.74	0.68	1.54	34.85	75.40	0.74	1.00	1.1	
Third	R15	W15-L	Bedroom	32.66	0.68	0.92	74.57	77.45	0.74	0.15	0.2	

Floor	Room ID	Window ID	Room Use	VSC	Win. Trans.	Glazing Area	Theta	Room Area	Room	Split Calc Multiplier	ADF	TOTAL ADF
Third	R16	W15-U	Bedroom	29.32	0.68	1.52	68.44	77.45	0.74	1.00	2.0	2.2
		W16-L	Bedroom	28.43	0.68	0.92	66.88	60.47	0.74	0.15	0.2	
		W16-U	Bedroom	21.07	0.68	1.52	54.53	60.47	0.74	1.00	2.1	2.3
Third	R17	W17-L	LKD	29.49	0.68	1.84	68.75	98.37	0.73	0.15	0.3	
		W17-U	LKD	20.85	0.68	3.04	54.18	98.37	0.73	1.00	2.4	2.7
Third	R18	W18-L	Bedroom	29.98	0.68	0.91	69.63	79.49	0.73	0.15	0.2	
		W18-U	Bedroom	26.97	0.68	1.56	64.37	79.49	0.73	1.00	1.8	2.0
Third	R19	W19-L	LKD	29.04	0.68	1.80	67.95	91.42	0.73	0.15	0.3	
		W19-U	LKD	20.69	0.68	3.08	53.91	91.42	0.73	1.00	2.6	2.9
Third	R20	W20-L	LKD	29.73	0.68	1.80	69.17	87.61	0.73	0.15	0.3	
		W20-U	LKD	21.08	0.68	3.08	54.55	87.61	0.73	1.00	2.8	3.1
Third	R21	W21-L	Bedroom	32.83	0.68	0.90	74.90	79.61	0.73	0.15	0.2	
		W21-U	Bedroom	29.32	0.68	1.55	68.46	79.61	0.73	1.00	1.9	2.1
Third	R22	W22-L	Bedroom	32.81	0.68	0.90	74.87	69.38	0.74	0.15	0.2	
		W22-U	Bedroom	29.31	0.68	1.54	68.42	69.38	0.74	1.00	2.3	2.5
Third	R23	W23-L	LKD	29.76	0.68	1.79	69.22	105.20	0.73	0.15	0.3	
		W23-U	LKD	21.04	0.68	3.09	54.49	105.20	0.73	1.00	2.3	2.6
Third	R24	W24-L	LKD	29.68	0.68	1.79	69.08	114.62	0.73	0.15	0.2	
		W24-U	LKD	21.02	0.68	3.09	54.46	114.62	0.73	1.00	2.1	2.4
Third	R25	W25-L	Bedroom	32.06	0.68	0.90	73.44	78.15	0.74	0.15	0.2	
		W25-U	Bedroom	28.50	0.68	1.55	67.00	78.15	0.74	1.00	2.0	2.2
Third	R26	W26-L	Bedroom	30.11	0.68	1.79	69.87	87.34	0.73	0.15	0.3	
		W26-U	Bedroom	22.01	0.68	3.09	56.08	87.34	0.73	1.00	2.9	3.2
Third	R27	W27-L	Bedroom	29.08	0.68	0.90	68.02	79.07	0.73	0.15	0.2	
		W27-U	Bedroom	22.13	0.68	1.55	56.27	79.07	0.73	1.00	1.6	1.8
Third	R28	W28-L	LKD	26.14	0.68	0.90	62.95	96.69	0.73	0.15	0.1	
		W28-U	LKD	23.64	0.68	1.55	58.78	96.69	0.73	1.00	1.4	1.5
Third	R29	W29-L	Bedroom	24.88	0.68	0.62	60.83	76.60	0.74	0.15	0.1	
		W29-U	Bedroom	20.38	0.68	1.02	53.39	76.60	0.74	1.00	1.1	1.2
Third	R30	W30-L	LKD	24.89	0.68	0.62	60.85	120.24	0.72	0.15	0.1	
		W30-U	LKD	20.39	0.68	1.02	53.41	120.24	0.72	1.00	0.6	
		W31-L	LKD	24.91	0.68	0.62	60.88	120.24	0.72	0.15	0.1	
		W31-U	LKD	20.40	0.68	1.02	53.43	120.24	0.72	1.00	0.6	
		W32-L	LKD	25.77	0.68	1.84	62.32	120.24	0.72	0.15	0.2	
		W32-U	LKD	20.47	0.68	3.04	53.54	120.24	0.72	1.00	1.9	3.5
Third	R31	W33-L	Bedroom	29.17	0.68	0.61	68.19	61.18	0.74	0.15	0.2	
		W33-U	Bedroom	26.86	0.68	1.01	64.17	61.18	0.74	1.00	1.6	
		W34-L	Bedroom	33.58	0.68	0.93	76.37	61.18	0.74	0.15	0.3	
		W34-U	Bedroom	30.48	0.68	1.53	70.52	61.18	0.74	1.00	2.6	4.7
Third	R32	W35-L	Bedroom	33.58	0.68	0.93	76.37	51.82	0.75	0.15	0.3	
		W35-U	Bedroom	30.48	0.68	1.53	70.52	51.82	0.75	1.00	3.2	3.5
Third	R33	W36-L	Bedroom	33.62	0.68	0.93	76.46	65.58	0.74	0.15	0.2	
		W36-U	Bedroom	30.52	0.68	1.53	70.59	65.58	0.74	1.00	2.4	2.7
Third	R34	W37-L	Bedroom	33.62	0.68	0.93	76.46	72.70	0.73	0.15	0.2	
		W37-U	Bedroom	30.52	0.68	1.53	70.59	72.70	0.73	1.00	2.2	
		W38-L	Bedroom	29.17	0.68	0.61	68.19	72.70	0.73	0.15	0.1	
		W38-U	Bedroom	26.86	0.68	1.01	64.18	72.70	0.73	1.00	1.3	3.9
Third	R35	W39-L	LKD	25.76	0.68	1.84	62.30	114.98	0.72	0.15	0.2	
		W39-U	LKD	20.45	0.68	3.04	53.50	114.98	0.72	1.00	2.0	2.2
Fourth	R1	W1-L	Bedroom	24.98	0.68	0.94	60.99	87.91	0.74	0.15	0.1	
		W1-U	Bedroom	26.94	0.68	1.52	64.32	87.91	0.74	1.00	1.7	
		W2-L	Bedroom	25.39	0.68	0.94	61.69	87.91	0.74	0.15	0.2	
		W2-U	Bedroom	25.53	0.68	1.52	61.92	87.91	0.74	1.00	1.6	3.6
Fourth	R2	W3-L	LKD	21.73	0.68	1.84	55.63	101.25	0.73	0.15	0.2	
		W3-U	LKD	12.43	0.68	3.04	39.88	101.25	0.73	1.00	1.7	2.0
Fourth	R3	W4-L	LKD	20.78	0.68	1.84	54.06	100.47	0.73	0.15	0.2	
		W4-U	LKD	11.19	0.68	3.04	37.61	100.47	0.73	1.00	1.6	1.9

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Fourth	R4	W5-L	Bedroom	24.22	0.68	0.94	59.73	76.68	0.73	0.15	0.2	1.8
		W5-U	Bedroom	21.96	0.68	1.52	55.99	76.68	0.73	1.00	1.6	
Fourth	R5	W6-L	LKD	19.12	0.68	1.84	51.32	90.38	0.73	0.15	0.2	1.9
		W6-U	LKD	9.63	0.68	3.04	34.62	90.38	0.73	1.00	1.7	
Fourth	R6	W7-L	Bedroom	22.12	0.68	0.94	56.26	73.14	0.74	0.15	0.2	1.8
		W7-U	Bedroom	19.73	0.68	1.53	52.33	73.14	0.74	1.00	1.6	
Fourth	R7	W8-L	Bedroom	21.21	0.68	0.94	54.76	79.07	0.73	0.15	0.1	1.6
		W8-U	Bedroom	19.13	0.68	1.52	51.34	79.07	0.73	1.00	1.4	
Fourth	R8	W9-L	LKD	16.20	0.68	1.84	46.45	87.34	0.73	0.15	0.2	1.7
		W9-U	LKD	7.04	0.68	3.02	29.26	87.34	0.73	1.00	1.5	
Fourth	R9	W10-L	LD	13.14	0.68	1.84	41.16	68.43	0.74	0.15	0.2	1.8
		W10-U	LD	4.83	0.68	3.04	24.06	68.43	0.74	1.00	1.6	
Fourth	R10	W11-L	Bedroom	14.20	0.68	0.94	43.02	70.39	0.74	0.15	0.1	1.4
		W11-U	Bedroom	12.76	0.68	1.52	40.48	70.39	0.74	1.00	1.3	
Fourth	R11	W12-L	LD	10.98	0.68	1.80	37.21	71.06	0.73	0.15	0.2	1.5
		W12-U	LD	3.50	0.68	3.08	20.44	71.06	0.73	1.00	1.3	
Fourth	R12	W13-L	Bedroom	9.94	0.68	0.90	35.23	73.85	0.74	0.15	0.1	0.7
		W13-U	Bedroom	3.34	0.68	1.54	19.97	73.85	0.74	1.00	0.6	
Fourth	R13	W14-L	Bedroom	15.18	0.68	0.92	44.70	75.41	0.74	0.15	0.1	1.4
		W14-U	Bedroom	12.84	0.68	1.54	40.61	75.41	0.74	1.00	1.3	
Fourth	R14	W15-L	Bedroom	32.78	0.68	0.92	74.82	77.45	0.74	0.15	0.2	2.2
		W15-U	Bedroom	29.54	0.68	1.52	68.84	77.45	0.74	1.00	2.0	
Fourth	R15	W16-L	Bedroom	27.34	0.68	0.92	65.00	60.47	0.74	0.15	0.2	2.1
		W16-U	Bedroom	18.08	0.68	1.52	49.59	60.47	0.74	1.00	1.9	
Fourth	R16	W17-L	LKD	28.02	0.68	1.84	66.17	98.81	0.73	0.15	0.3	2.4
		W17-U	LKD	17.41	0.68	3.04	48.48	98.81	0.73	1.00	2.1	
Fourth	R17	W18-L	Bedroom	29.97	0.68	0.91	69.60	80.15	0.73	0.15	0.2	2.0
		W18-U	Bedroom	27.13	0.68	1.56	64.63	80.15	0.73	1.00	1.8	
Fourth	R18	W19-L	LKD	27.71	0.68	1.80	65.63	90.11	0.73	0.15	0.3	2.7
		W19-U	LKD	17.34	0.68	3.08	48.36	90.11	0.73	1.00	2.4	
Fourth	R19	W20-L	LKD	28.34	0.68	1.80	66.73	87.61	0.73	0.15	0.3	2.8
		W20-U	LKD	17.65	0.68	3.08	48.89	87.61	0.73	1.00	2.5	
Fourth	R20	W21-L	Bedroom	32.93	0.68	0.90	75.09	79.61	0.73	0.15	0.2	2.1
		W21-U	Bedroom	29.54	0.68	1.55	68.84	79.61	0.73	1.00	2.0	
Fourth	R21	W22-L	Bedroom	33.17	0.68	0.90	75.56	70.03	0.74	0.15	0.2	2.5
		W22-U	Bedroom	29.54	0.68	1.54	68.84	70.03	0.74	1.00	2.3	
Fourth	R22	W23-L	LKD	28.41	0.68	1.79	66.84	105.20	0.73	0.15	0.2	2.3
		W23-U	LKD	17.60	0.68	3.09	48.79	105.20	0.73	1.00	2.1	
Fourth	R23	W24-L	LKD	28.38	0.68	1.79	66.79	112.93	0.73	0.15	0.2	2.2
		W24-U	LKD	17.58	0.68	3.09	48.76	112.93	0.73	1.00	2.0	
Fourth	R24	W25-L	Bedroom	32.49	0.68	0.90	74.25	81.07	0.74	0.15	0.2	2.1
		W25-U	Bedroom	28.71	0.68	1.55	67.38	81.07	0.74	1.00	1.9	
Fourth	R25	W26-L	LKD	28.25	0.68	1.79	66.56	113.80	0.73	0.15	0.2	2.1
		W26-U	LKD	17.54	0.68	3.09	48.69	113.80	0.73	1.00	1.9	
Fourth	R26	W27-L	Bedroom	27.54	0.68	0.90	65.35	60.91	0.74	0.15	0.2	2.1
		W27-U	Bedroom	18.13	0.68	1.55	49.68	60.91	0.74	1.00	1.9	
Fourth	R27	W28-L	Bedroom	30.56	0.68	0.92	70.67	81.11	0.74	0.15	0.2	5.4
		W28-U	Bedroom	30.36	0.68	1.53	70.30	81.11	0.74	1.00	2.0	
		W29-L	Bedroom	20.93	0.68	1.36	54.31	81.11	0.74	0.15	0.2	
		W29-U	Bedroom	32.17	0.68	2.18	73.64	81.11	0.74	1.00	3.0	
Fourth	R28	W30	Bedroom	27.47	0.68	1.91	65.23	60.50	0.74	1.00	3.1	3.1
Fifth	R1	W1-L	Bedroom	31.30	0.68	0.93	72.01	82.64	0.74	0.15	0.2	4.1
		W1-U	Bedroom	28.31	0.68	1.54	66.67	82.64	0.74	1.00	1.9	
		W2-L	Bedroom	30.72	0.68	0.94	70.97	82.64	0.74	0.15	0.2	
		W2-U	Bedroom	27.86	0.68	1.52	65.90	82.64	0.74	1.00	1.8	

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Fifth	R2	W3-L	LKD	32.59	0.68	1.84	74.46	101.11	0.73	0.15	0.3	3.3
		W3-U	LKD	28.82	0.68	3.04	67.56	101.11	0.73	1.00	3.0	
Fifth	R3	W4-L	LKD	31.62	0.68	1.84	72.61	100.47	0.73	0.15	0.3	3.2
		W4-U	LKD	27.92	0.68	3.04	66.00	100.47	0.73	1.00	2.9	
Fifth	R4	W5-L	Bedroom	27.79	0.68	0.94	65.76	76.68	0.73	0.15	0.2	2.0
		W5-U	Bedroom	25.18	0.68	1.52	61.34	76.68	0.73	1.00	1.8	
Fifth	R5	W6-L	LKD	29.33	0.68	1.84	68.46	90.38	0.73	0.15	0.3	3.3
		W6-U	LKD	25.79	0.68	3.04	62.36	90.38	0.73	1.00	3.0	
Fifth	R6	W7-L	Bedroom	25.30	0.68	0.94	61.53	73.14	0.74	0.15	0.2	1.9
		W7-U	Bedroom	22.83	0.68	1.53	57.43	73.14	0.74	1.00	1.8	
Fifth	R7	W8-L	Bedroom	23.93	0.68	0.94	59.25	79.07	0.73	0.15	0.2	1.7
		W8-U	Bedroom	21.56	0.68	1.52	55.34	79.07	0.73	1.00	1.6	
Fifth	R8	W9-L	LKD	19.79	0.68	1.84	52.43	87.34	0.73	0.15	0.2	2.2
		W9-U	LKD	12.29	0.68	3.02	39.63	87.34	0.73	1.00	2.0	
Fifth	R9	W10-L	LKD	17.46	0.68	1.84	48.56	98.75	0.73	0.15	0.2	1.8
		W10-U	LKD	10.46	0.68	3.04	36.23	98.75	0.73	1.00	1.6	
Fifth	R10	W11-L	Bedroom	16.39	0.68	0.94	46.77	70.39	0.74	0.15	0.1	1.6
		W11-U	Bedroom	14.95	0.68	1.52	44.32	70.39	0.74	1.00	1.4	
Fifth	R11	W12-L	LKD	15.74	0.68	1.80	45.67	104.59	0.73	0.15	0.2	1.5
		W12-U	LKD	8.18	0.68	3.08	31.72	104.59	0.73	1.00	1.3	
Fifth	R12	W13-L	Bedroom	14.24	0.68	0.90	43.08	73.85	0.74	0.15	0.1	1.1
		W13-U	Bedroom	7.89	0.68	1.54	31.12	73.85	0.74	1.00	1.0	
Fifth	R13	W14-L	Bedroom	18.28	0.68	0.92	49.93	75.41	0.74	0.15	0.1	1.6
		W14-U	Bedroom	15.83	0.68	1.54	45.81	75.41	0.74	1.00	1.4	
Fifth	R14	W15-L	Bedroom	33.06	0.68	0.92	75.35	77.45	0.74	0.15	0.2	2.2
		W15-U	Bedroom	29.70	0.68	1.52	69.12	77.45	0.74	1.00	2.0	
Fifth	R15	W16-L	Bedroom	28.90	0.68	0.92	67.70	60.47	0.74	0.15	0.2	2.3
		W16-U	Bedroom	21.62	0.68	1.52	55.44	60.47	0.74	1.00	2.1	
Fifth	R16	W17-L	LKD	29.99	0.68	1.84	69.64	98.81	0.73	0.15	0.3	2.7
		W17-U	LKD	21.44	0.68	3.04	55.14	98.81	0.73	1.00	2.4	
Fifth	R17	W18-L	Bedroom	30.30	0.68	0.93	70.19	79.49	0.73	0.15	0.2	2.0
		W18-U	Bedroom	27.40	0.68	1.54	65.09	79.49	0.73	1.00	1.8	
Fifth	R18	W19-L	LKD	29.46	0.68	1.84	68.70	91.42	0.73	0.15	0.3	2.9
		W19-U	LKD	21.17	0.68	3.03	54.69	91.42	0.73	1.00	2.6	
Fifth	R19	W20-L	LKD	30.15	0.68	1.84	69.92	87.97	0.73	0.15	0.3	3.1
		W20-U	LKD	21.55	0.68	3.03	55.32	87.97	0.73	1.00	2.8	
Fifth	R20	W21-L	Bedroom	33.18	0.68	0.92	75.59	79.25	0.73	0.15	0.2	2.1
		W21-U	Bedroom	29.80	0.68	1.52	69.29	79.25	0.73	1.00	2.0	
Fifth	R21	W22-L	Bedroom	34.27	0.68	0.93	77.77	69.43	0.74	0.15	0.2	2.6
		W22-U	Bedroom	30.94	0.68	1.52	71.37	69.43	0.74	1.00	2.4	
Fifth	R22	W23-L	LKD	37.04	0.68	1.84	83.69	105.20	0.73	0.15	0.3	3.5
		W23-U	LKD	32.65	0.68	3.04	74.57	105.20	0.73	1.00	3.2	
Fifth	R23	W24-L	LKD	37.05	0.68	1.79	83.71	113.82	0.73	0.15	0.3	3.3
		W24-U	LKD	32.53	0.68	3.09	74.33	113.82	0.73	1.00	3.0	
Fifth	R24	W25-L	Bedroom	34.32	0.68	0.90	77.85	80.45	0.74	0.15	0.2	2.2
		W25-U	Bedroom	30.82	0.68	1.55	71.14	80.45	0.74	1.00	2.0	
Fifth	R25	W26-L	LKD	37.09	0.68	1.83	83.79	113.80	0.73	0.15	0.3	3.2
		W26-U	LKD	32.68	0.68	3.04	74.61	113.80	0.73	1.00	2.9	
Fifth	R26	W27-L	Bedroom	34.35	0.68	0.93	77.92	60.91	0.74	0.15	0.3	2.9
		W27-U	Bedroom	30.99	0.68	1.52	71.46	60.91	0.74	1.00	2.7	
Fifth	R27	W28-L	Bedroom	36.04	0.68	0.93	81.48	81.11	0.74	0.15	0.2	2.3
		W28-U	Bedroom	32.05	0.68	1.54	73.43	81.11	0.74	1.00	2.1	
Fifth	R28	W29-L	Bedroom	37.26	0.68	1.84	84.18	60.50	0.74	0.15	0.6	6.3
		W29-U	Bedroom	33.04	0.68	3.04	75.31	60.50	0.74	1.00	5.7	

Floor	Room ID	Window ID	Room Use	VSC	Win. Trans.	Glazing Area	Theta	Room Area	Room	Split Calc Multiplier	ADF	TOTAL ADF
Sixth	R1	W2-L	LKD	24.37	0.68	1.73	59.99	107.06	0.72	0.15	0.2	5.1
		W2-U	LKD	18.06	0.68	3.04	49.56	107.06	0.72	1.00	2.0	
		W3-L	LKD	31.37	0.68	1.89	72.15	107.06	0.72	0.15	0.3	
		W3-U	LKD	27.35	0.68	2.99	65.01	107.06	0.72	1.00	2.6	
Sixth	R2	W1-L	Bedroom	25.41	0.68	0.87	61.71	56.82	0.74	0.15	0.2	2.2
		W1-U	Bedroom	17.71	0.68	1.52	48.99	56.82	0.74	1.00	2.0	
Sixth	R3	W4-L	Bedroom	26.80	0.68	0.96	64.07	70.72	0.74	0.15	0.2	2.1
		W4-U	Bedroom	23.73	0.68	1.50	58.91	70.72	0.74	1.00	1.9	
Sixth	R4	W5-L	Bedroom	26.53	0.68	0.96	63.61	79.07	0.73	0.15	0.2	1.8
		W5-U	Bedroom	24.28	0.68	1.50	59.84	79.07	0.73	1.00	1.7	
Sixth	R5	W6-L	LKD	20.97	0.68	1.88	54.36	87.34	0.73	0.15	0.3	2.1
		W6-U	LKD	11.39	0.68	2.98	37.97	87.34	0.73	1.00	1.9	
Sixth	R6	W7-L	LKD	18.86	0.68	1.89	50.89	97.90	0.73	0.15	0.2	1.7
		W7-U	LKD	9.81	0.68	2.99	34.97	97.90	0.73	1.00	1.5	
Sixth	R7	W8-L	Bedroom	18.78	0.68	0.96	50.76	70.39	0.74	0.15	0.2	1.7
		W8-U	Bedroom	17.53	0.68	1.50	48.67	70.39	0.74	1.00	1.5	
Sixth	R8	W9-L	LKD	17.25	0.68	1.84	48.21	104.59	0.73	0.15	0.2	1.5
		W9-U	LKD	7.71	0.68	3.04	30.72	104.59	0.73	1.00	1.3	
Sixth	R9	W10-L	Bedroom	16.00	0.68	0.92	46.10	73.85	0.74	0.15	0.1	1.1
		W10-U	Bedroom	7.77	0.68	1.52	30.85	73.85	0.74	1.00	1.0	
Sixth	R10	W11-L	Bedroom	21.25	0.68	0.94	54.83	75.40	0.74	0.15	0.2	1.7
		W11-U	Bedroom	19.07	0.68	1.52	51.23	75.40	0.74	1.00	1.6	
Sixth	R11	W12-L	Bedroom	33.08	0.68	0.95	75.39	77.46	0.74	0.15	0.2	2.2
		W12-U	Bedroom	29.95	0.68	1.50	69.58	77.46	0.74	1.00	2.0	
Sixth	R12	W13-L	Bedroom	27.70	0.68	0.95	65.62	60.47	0.74	0.15	0.2	2.1
		W13-U	Bedroom	18.50	0.68	1.50	50.30	60.47	0.74	1.00	1.9	
Sixth	R13	W14-L	LKD	28.49	0.68	1.89	66.98	97.47	0.73	0.15	0.3	2.5
		W14-U	LKD	17.95	0.68	2.99	49.38	97.47	0.73	1.00	2.2	
Sixth	R14	W15-L	Bedroom	30.24	0.68	0.93	70.10	79.49	0.73	0.15	0.2	2.0
		W15-U	Bedroom	27.45	0.68	1.54	65.19	79.49	0.73	1.00	1.8	
Sixth	R15	W16-L	LKD	28.39	0.68	1.84	66.80	90.10	0.73	0.15	0.3	2.7
		W16-U	LKD	18.44	0.68	3.03	50.19	90.10	0.73	1.00	2.4	
Sixth	R16	W17-L	LKD	29.03	0.68	1.84	67.93	108.34	0.73	0.15	0.3	2.3
		W17-U	LKD	18.81	0.68	3.03	50.81	108.34	0.73	1.00	2.1	
Sixth	R17	W18-L	Bedroom	32.08	0.68	0.92	73.48	72.23	0.74	0.15	0.2	2.2
		W18-U	Bedroom	26.83	0.68	1.52	64.12	72.23	0.74	1.00	2.0	
Sixth	R18	W19-L	Bedroom	32.86	0.68	0.93	74.97	68.70	0.74	0.15	0.2	2.4
		W19-U	Bedroom	27.60	0.68	1.52	65.45	68.70	0.74	1.00	2.2	
Sixth	R19	W20-L	LKD	37.19	0.68	1.83	84.01	114.00	0.72	0.15	0.3	6.7
		W20-U	LKD	32.79	0.68	3.04	74.83	114.00	0.72	1.00	2.8	
		W21-L	LKD	34.43	0.68	0.92	78.08	114.00	0.72	0.15	0.1	
		W21-U	LKD	31.04	0.68	1.53	71.55	114.00	0.72	1.00	1.4	
		W22-L	LKD	24.40	0.68	1.71	60.03	114.00	0.72	0.15	0.2	
		W22-U	LKD	18.07	0.68	3.04	49.57	114.00	0.72	1.00	1.9	
Sixth	R20	W23-L	Bedroom	25.42	0.68	0.88	61.74	58.63	0.74	0.15	0.2	2.1
		W23-U	Bedroom	17.68	0.68	1.54	48.94	58.63	0.74	1.00	1.9	
Seventh	R1	W3-L	LKD	28.57	0.68	1.74	67.13	107.49	0.72	0.15	0.2	5.2
		W3-U	LKD	18.09	0.68	3.03	49.61	107.49	0.72	1.00	2.0	
		W4-L	LKD	33.31	0.68	1.89	75.85	107.49	0.72	0.15	0.3	
		W4-U	LKD	29.26	0.68	2.99	68.35	107.49	0.72	1.00	2.7	
Seventh	R2	W2-L	Bedroom	27.32	0.68	0.88	64.97	58.04	0.74	0.15	0.2	2.1
		W2-U	Bedroom	17.74	0.68	1.52	49.03	58.04	0.74	1.00	1.9	
Seventh	R3	W1-L	Bedroom	29.92	0.68	0.75	69.52	79.72	0.74	0.15	0.1	1.7
		W1-U	Bedroom	27.48	0.68	1.23	65.23	79.72	0.74	1.00	1.5	
Seventh	R4	W5-L	Bedroom	28.97	0.68	0.96	67.83	57.98	0.74	0.15	0.3	2.7
		W5-U	Bedroom	25.88	0.68	1.50	62.51	57.98	0.74	1.00	2.4	
Seventh	R5	W6-L	Bedroom	29.08	0.68	0.96	68.02	79.07	0.73	0.15	0.2	

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Seventh	R6	W6-U	Bedroom	26.63	0.68	1.50	63.77	79.07	0.73	1.00	1.8	2.0
		W7-L	LKD	23.61	0.68	1.88	58.73	87.34	0.73	0.15	0.3	
Seventh	R7	W7-U	LKD	13.92	0.68	2.98	42.53	87.34	0.73	1.00	2.1	2.4
		W8-L	LKD	21.66	0.68	1.89	55.50	98.59	0.73	0.15	0.2	
Seventh	R8	W8-U	LKD	12.53	0.68	2.99	40.07	98.59	0.73	1.00	1.7	2.0
		W9-L	Bedroom	21.31	0.68	0.96	54.93	70.39	0.74	0.15	0.2	
Seventh	R9	W9-U	Bedroom	19.82	0.68	1.50	52.48	70.39	0.74	1.00	1.7	1.8
		W10-L	LKD	20.28	0.68	1.84	53.23	104.59	0.73	0.15	0.2	
Seventh	R10	W10-U	LKD	10.79	0.68	3.04	36.85	104.59	0.73	1.00	1.5	1.7
		W11-L	Bedroom	19.01	0.68	0.92	51.14	73.85	0.74	0.15	0.1	
Seventh	R11	W11-U	Bedroom	10.84	0.68	1.52	36.96	73.85	0.74	1.00	1.1	1.3
		W12-L	Bedroom	24.28	0.68	0.94	59.84	75.40	0.74	0.15	0.2	
Seventh	R12	W12-U	Bedroom	22.12	0.68	1.52	56.27	75.40	0.74	1.00	1.7	1.9
		W13-L	Bedroom	33.24	0.68	0.95	75.71	77.46	0.74	0.15	0.2	
Seventh	R13	W13-U	Bedroom	30.09	0.68	1.50	69.82	77.46	0.74	1.00	2.0	2.2
		W14-L	Bedroom	27.83	0.68	0.95	65.85	60.47	0.74	0.15	0.2	
Seventh	R14	W14-U	Bedroom	18.64	0.68	1.50	50.52	60.47	0.74	1.00	1.9	2.1
		W15-L	LKD	28.64	0.68	1.89	67.24	97.47	0.73	0.15	0.3	
Seventh	R15	W15-U	LKD	18.10	0.68	2.99	49.63	97.47	0.73	1.00	2.2	2.5
		W16-L	Bedroom	30.63	0.68	0.93	70.80	79.49	0.73	0.15	0.2	
Seventh	R16	W16-U	Bedroom	27.58	0.68	1.54	65.40	79.49	0.73	1.00	1.9	2.0
		W17-L	LKD	28.29	0.68	1.84	66.63	90.10	0.73	0.15	0.3	
Seventh	R17	W17-U	LKD	17.92	0.68	3.03	49.34	90.10	0.73	1.00	2.4	2.7
		W18-L	LKD	28.91	0.68	1.84	67.72	87.79	0.73	0.15	0.3	
Seventh	R18	W18-U	LKD	18.24	0.68	3.03	49.86	87.79	0.73	1.00	2.5	2.8
		W19-L	Bedroom	32.34	0.68	0.92	73.97	78.87	0.73	0.15	0.2	
Seventh	R19	W19-U	Bedroom	26.93	0.68	1.52	64.30	78.87	0.73	1.00	1.8	2.0
		W20-L	Bedroom	32.97	0.68	0.93	75.18	54.30	0.75	0.15	0.3	
Seventh	R20	W20-U	Bedroom	27.72	0.68	1.52	65.64	54.30	0.75	1.00	2.8	3.1
		W21-L	Bedroom	37.31	0.68	1.83	84.29	58.71	0.74	0.15	0.6	
Seventh	R21	W21-U	Bedroom	32.91	0.68	3.04	75.07	58.71	0.74	1.00	5.8	6.4
		W22-L	LKD	34.53	0.68	0.92	78.29	121.85	0.73	0.15	0.1	
Seventh	R22	W22-U	LKD	31.15	0.68	1.53	71.74	121.85	0.73	1.00	1.3	
		W23-L	LKD	28.56	0.68	1.72	67.11	121.85	0.73	0.15	0.2	
Seventh	R23	W23-U	LKD	18.10	0.68	3.03	49.64	121.85	0.73	1.00	1.8	
		W24-L	LKD	27.31	0.68	0.88	64.94	121.85	0.73	0.15	0.1	
Seventh	R24	W24-U	LKD	17.72	0.68	1.53	49.00	121.85	0.73	1.00	0.9	4.4
Eighth	R1	W3-L	LKD	36.85	0.68	1.30	83.25	107.49	0.72	0.15	0.2	
		W3-U	LKD	32.82	0.68	2.28	74.88	107.49	0.72	1.00	2.3	
Eighth	R2	W4	LKD	22.67	0.68	1.20	57.16	107.49	0.72	1.00	0.9	3.4
Eighth	R3	W2	Bedroom	29.17	0.68	1.20	68.18	58.04	0.74	1.00	2.1	2.1
Eighth	R4	W1-L	Bedroom	30.00	0.68	0.75	69.67	79.72	0.74	0.15	0.1	
		W1-U	Bedroom	27.58	0.68	1.23	65.42	79.72	0.74	1.00	1.5	1.7
Eighth	R5	W5-L	Bedroom	31.05	0.68	0.96	71.56	57.98	0.74	0.15	0.3	
		W5-U	Bedroom	27.86	0.68	1.50	65.90	57.98	0.74	1.00	2.6	2.8
Eighth	R6	W6-L	Bedroom	31.88	0.68	0.96	73.10	79.07	0.73	0.15	0.2	
		W6-U	Bedroom	29.38	0.68	1.50	68.56	79.07	0.73	1.00	1.9	2.1
Eighth	R7	W7-L	LKD	34.16	0.68	1.88	77.53	87.34	0.73	0.15	0.4	
		W7-U	LKD	30.77	0.68	2.98	71.05	87.34	0.73	1.00	3.5	3.9
Eighth	R8	W8-L	LKD	32.40	0.68	1.89	74.08	98.59	0.73	0.15	0.3	
		W8-U	LKD	29.47	0.68	2.99	68.72	98.59	0.73	1.00	3.0	3.3
Eighth	R9	W9-L	Bedroom	24.27	0.68	0.96	59.82	70.39	0.74	0.15	0.2	
		W9-U	Bedroom	22.76	0.68	1.50	57.32	70.39	0.74	1.00	1.8	2.0
Eighth	R10	W10-L	LKD	25.01	0.68	1.84	61.05	104.59	0.73	0.15	0.2	
		W10-U	LKD	17.42	0.68	3.04	48.50	104.59	0.73	1.00	2.0	2.3

Floor	Room ID	Window ID	Room Use	VSC	Win. Trans.	Glazing Area	Theta	Room Area	Room	Split Calc Multiplier	ADF	TOTAL ADF
Eighth	R10	W11-L	Bedroom	23.46	0.68	0.92	58.48	73.85	0.74	0.15	0.2	1.7
		W11-U	Bedroom	17.16	0.68	1.52	48.06	73.85	0.74	1.00	1.5	
Eighth	R11	W12-L	Bedroom	27.53	0.68	0.94	65.32	75.40	0.74	0.15	0.2	2.1
		W12-U	Bedroom	25.24	0.68	1.52	61.43	75.40	0.74	1.00	1.9	
Eighth	R12	W13-L	Bedroom	33.49	0.68	0.95	76.20	77.45	0.74	0.15	0.2	2.2
		W13-U	Bedroom	30.20	0.68	1.50	70.02	77.45	0.74	1.00	2.0	
Eighth	R13	W14-L	Bedroom	29.27	0.68	0.95	68.36	60.47	0.74	0.15	0.2	2.3
		W14-U	Bedroom	21.93	0.68	1.50	55.95	60.47	0.74	1.00	2.1	
Eighth	R14	W15-L	LKD	30.39	0.68	1.89	70.37	97.47	0.73	0.15	0.3	2.8
		W15-U	LKD	21.78	0.68	2.99	55.70	97.47	0.73	1.00	2.5	
Eighth	R15	W16-L	Bedroom	31.85	0.68	0.93	73.05	79.49	0.73	0.15	0.2	2.1
		W16-U	Bedroom	28.95	0.68	1.54	67.79	79.49	0.73	1.00	1.9	
Eighth	R16	W17-L	LKD	36.83	0.68	1.84	83.21	90.10	0.73	0.15	0.4	4.0
		W17-U	LKD	32.65	0.68	3.03	74.57	90.10	0.73	1.00	3.6	
Eighth	R17	W18-L	Bedroom	37.37	0.68	1.84	84.42	87.79	0.73	0.15	0.4	4.1
		W18-U	Bedroom	33.02	0.68	3.03	75.27	87.79	0.73	1.00	3.8	
Eighth	R18	W19-L	Bedroom	33.09	0.68	0.92	75.41	78.87	0.73	0.15	0.2	2.1
		W19-U	Bedroom	27.79	0.68	1.52	65.77	78.87	0.73	1.00	1.9	
Eighth	R19	W20-L	Bedroom	33.06	0.68	0.93	75.36	54.30	0.75	0.15	0.3	3.1
		W20-U	Bedroom	27.77	0.68	1.52	65.74	54.30	0.75	1.00	2.8	
Eighth	R20	W21-L	Bedroom	37.42	0.68	1.83	84.54	58.71	0.74	0.15	0.6	6.4
		W21-U	Bedroom	33.01	0.68	3.04	75.26	58.71	0.74	1.00	5.8	
Eighth	R21	W22-L	LKD	35.73	0.68	1.30	80.80	121.85	0.73	0.15	0.2	3.0
		W22-U	LKD	29.60	0.68	2.26	68.94	121.85	0.73	1.00	1.8	
		W23	LKD	29.17	0.68	1.21	68.18	121.85	0.73	1.00	1.0	
Ninth	R1	W1-L	LKD	28.43	0.68	0.92	66.88	110.56	0.73	0.15	0.1	3.7
		W1-U	LKD	30.20	0.68	1.51	70.03	110.56	0.73	1.00	1.4	
		W2-L	LKD	31.39	0.68	1.38	72.19	110.56	0.73	0.15	0.2	
		W2-U	LKD	29.55	0.68	2.28	68.85	110.56	0.73	1.00	2.0	
Ninth	R2	W3-L	Bedroom	32.76	0.68	0.91	74.77	54.78	0.75	0.15	0.3	3.1
		W3-U	Bedroom	30.10	0.68	1.44	69.83	54.78	0.75	1.00	2.8	
Ninth	R3	W4-L	Bedroom	32.50	0.68	0.91	74.28	49.18	0.75	0.15	0.3	3.4
		W4-U	Bedroom	29.92	0.68	1.44	69.52	49.18	0.75	1.00	3.1	
Ninth	R4	W5-L	Bedroom	26.26	0.68	0.96	63.15	79.68	0.74	0.15	0.2	1.9
		W5-U	Bedroom	24.36	0.68	1.50	59.96	79.68	0.74	1.00	1.7	
Ninth	R5	W6-L	LKD	26.25	0.68	1.84	63.13	104.59	0.73	0.15	0.2	2.2
		W6-U	LKD	16.42	0.68	3.04	46.81	104.59	0.73	1.00	2.0	
Ninth	R6	W7-L	Bedroom	25.15	0.68	0.92	61.29	73.86	0.74	0.15	0.2	1.6
		W7-U	Bedroom	16.71	0.68	1.52	47.31	73.86	0.74	1.00	1.5	
Ninth	R7	W8-L	Bedroom	30.74	0.68	0.94	71.01	75.40	0.74	0.15	0.2	2.2
		W8-U	Bedroom	28.11	0.68	1.52	66.32	75.40	0.74	1.00	2.0	
Ninth	R8	W9-L	Bedroom	33.51	0.68	0.95	76.25	77.45	0.74	0.15	0.2	1.9
		W9-U	Bedroom	24.36	0.68	1.50	59.97	77.45	0.74	1.00	1.7	
Ninth	R9	W10-L	Bedroom	28.06	0.68	0.95	66.23	60.47	0.74	0.15	0.2	2.1
		W10-U	Bedroom	18.18	0.68	1.50	49.76	60.47	0.74	1.00	1.9	
Ninth	R10	W11-L	LKD	28.88	0.68	1.89	67.66	97.44	0.73	0.15	0.3	2.5
		W11-U	LKD	18.00	0.68	2.99	49.47	97.44	0.73	1.00	2.2	
Ninth	R11	W12-L	Bedroom	33.08	0.68	0.88	75.39	83.87	0.74	0.15	0.2	2.0
		W12-U	Bedroom	29.82	0.68	1.47	69.34	83.87	0.74	1.00	1.8	
Ninth	R12	W13-L	Bedroom	34.45	0.68	0.88	78.13	51.19	0.75	0.15	0.3	3.5
		W13-U	Bedroom	31.07	0.68	1.47	71.60	51.19	0.75	1.00	3.1	
Ninth	R13	W14-L	Bedroom	34.69	0.68	0.92	78.62	60.02	0.75	0.15	0.3	3.1
		W14-U	Bedroom	31.32	0.68	1.52	72.06	60.02	0.75	1.00	2.8	
Ninth	R14	W15-L	LKD	31.22	0.68	1.38	71.87	110.71	0.72	0.15	0.2	2.0
		W15-U	LKD	29.49	0.68	2.28	68.74	110.71	0.72	1.00	2.0	
		W16-L	LKD	27.91	0.68	0.92	65.97	110.71	0.72	0.15	0.1	

Floor	Room ID	Window ID	Room Use	VSC	Win. Trans.	Glazing Area	Theta	Room Area	Room	Split Calc Multiplier	ADF	TOTAL ADF
		W16-U	LKD	30.02	0.68	1.52	69.70	110.71	0.72	1.00	1.4	3.7
Tenth	R1	W1-L	LKD	27.87	0.68	1.84	65.91	121.77	0.73	0.15	0.2	
		W1-U	LKD	21.98	0.68	3.03	56.03	121.77	0.73	1.00	2.0	
		W2-L	LKD	26.78	0.68	1.38	64.03	121.77	0.73	0.15	0.2	
		W2-U	LKD	19.22	0.68	2.28	51.49	121.77	0.73	1.00	1.4	3.8
Tenth	R2	W3-L	Bedroom	36.69	0.68	1.89	82.90	61.91	0.74	0.15	0.6	
		W3-U	Bedroom	33.07	0.68	2.99	75.38	61.91	0.74	1.00	5.5	6.1
Tenth	R3	W4-L	Bedroom	28.30	0.68	0.96	66.66	68.05	0.74	0.15	0.2	
		W4-U	Bedroom	26.67	0.68	1.50	63.84	68.05	0.74	1.00	2.1	2.3
Tenth	R4	W5-L	LKD	37.01	0.68	1.84	83.62	104.59	0.73	0.15	0.3	
		W5-U	LKD	33.26	0.68	3.04	75.75	104.59	0.73	1.00	3.2	3.5
Tenth	R5	W6-L	Bedroom	34.14	0.68	0.92	77.49	73.85	0.74	0.15	0.2	
		W6-U	Bedroom	31.44	0.68	1.52	72.28	73.85	0.74	1.00	2.2	2.5
Tenth	R6	W7-L	Bedroom	34.10	0.68	0.94	77.42	75.40	0.74	0.15	0.2	
		W7-U	Bedroom	31.44	0.68	1.52	72.27	75.40	0.74	1.00	2.2	2.4
Tenth	R7	W8-L	Bedroom	34.75	0.68	0.95	78.74	77.45	0.74	0.15	0.2	
		W8-U	Bedroom	31.29	0.68	1.50	72.00	77.45	0.74	1.00	2.1	2.3
Tenth	R8	W9-L	Bedroom	34.75	0.68	0.95	78.75	60.47	0.74	0.15	0.3	
		W9-U	Bedroom	31.28	0.68	1.50	71.99	60.47	0.74	1.00	2.7	3.0
Tenth	R9	W10-L	LKD	37.57	0.68	1.89	84.88	98.83	0.73	0.15	0.4	
		W10-U	LKD	33.07	0.68	2.99	75.37	98.83	0.73	1.00	3.3	3.6
Tenth	R10	W11-L	Bedroom	32.60	0.68	0.88	74.47	79.72	0.74	0.15	0.2	
		W11-U	Bedroom	29.46	0.68	1.47	68.70	79.72	0.74	1.00	1.9	2.1
Tenth	R11	W12-L	Bedroom	34.28	0.68	0.88	77.77	69.80	0.74	0.15	0.2	
		W12-U	Bedroom	30.75	0.68	1.47	71.02	69.80	0.74	1.00	2.3	
		W13-L	Bedroom	34.75	0.68	0.92	78.75	69.80	0.74	0.15	0.2	
		W13-U	Bedroom	31.15	0.68	1.52	71.75	69.80	0.74	1.00	2.4	5.1
Tenth	R12	W14-L	LKD	26.73	0.68	0.92	63.95	120.39	0.73	0.15	0.1	
		W14-U	LKD	19.29	0.68	1.52	51.60	120.39	0.73	1.00	0.9	
		W15-L	LKD	27.87	0.68	1.84	65.90	120.39	0.73	0.15	0.2	
		W15-U	LKD	21.96	0.68	3.03	56.00	120.39	0.73	1.00	2.0	3.3