



FORMER JOHN LEWIS DEPOT, LETCOMBE STREET, READING
(ALSO KNOWN AS JLP MILL LANE)

DAYLIGHT AND SUNLIGHT ASSESSMENT

JUNE 2025



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Architect **CJCT Studios**
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CONTENTS

APPENDIX 01	
PRINCIPLES OF DAYLIGHT, SUNLIGHT & OVERSHADOWING	3
APPENDIX 02	
DRAWINGS	21
EXISTING	23
PROPOSED	29
APPENDIX 03	
ASSUMPTIONS	35
APPENDIX 04	
RESULTS	39
EXISTING v PROPOSED (RESULTS)	41
APPENDIX 05	
FLOOR PLANS	53
41 LONDON STREET	55
EXISTING	55
41 LONDON STREET	61
PROPOSED	61
43 LONDON STREET	67
EXISTING	67
43 LONDON STREET	77
PROPOSED	77
72A LONDON STREET	95
EXISTING	95
72A LONDON STREET	99
PROPOSED	99
74-76 LONDON STREET	103

USER TIP:
Click any heading to go
directly to that content.

USER TIP:
Return to the contents
list from any page by
clicking on the GIA logo.

APPENDIX 01

PRINCIPLES OF DAYLIGHT, SUNLIGHT & OVERSHADOWING

APPENDIX 01

PRINCIPLES OF DAYLIGHT, SUNLIGHT & OVERSHADOWING

The Building Research Establishment (BRE) have set out in their handbook 'Site Layout Planning for Daylight & Sunlight: A Guide to Good Practice 3rd edition (2022)', guidelines and methodology for the measurement and assessment of daylight, sunlight and overshadowing.

BACKGROUND & CONTEXT

- A 1.1 The quality of daylight and sunlight amenity as well as the overshadowing of open spaces is often stipulated within planning policy for protection or enhancement and a concern for adjoining owners and other interested parties.
- A 1.2 The BRE Guidelines provide advice on site layout planning to determine the quality of daylight and sunlight both within buildings and reaching open spaces.
- A 1.3 The BRE Guidelines note that the document is intended to be used in conjunction with the interior daylight recommendations found within the British Standard Daylight in buildings, BS EN 17037 and the CIBSE Publication LG 10 Daylighting – a guide for designers.
- A 1.4 Whilst the BRE Guidelines are typically referred to for daylight, sunlight and overshadowing matters within the planning process, they are not intended to be used as an instrument of planning policy, nor are the figures intended to be fixedly applied to all locations.
- A 1.5 In the introduction of 'Site Layout Planning for daylight and sunlight (2022)', section 1.6 (page 7), states that:
- "The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and this document should not be seen as an instrument of planning policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly since natural lighting is only one of many factors in site layout design (see Section 5). In special circumstances the developer or planning authority may wish to use different target values. For example, in a historic city centre, or in an area with modern high-rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings".*
- A 1.6 Paragraph 2.2.3 (page 14) of the document states:
- "Note that numerical values given here are purely advisory. Different criteria may be used based on the requirements for daylighting in an area viewed against other site layout constraints".*
- A 1.7 The numerical criteria suggested by the BRE are therefore designed to provide industry advice/guidance to plan/design with daylight in mind. Alternative values may be appropriate in certain circumstances such as highly dense urban areas. The BRE approach to creating alternative criteria is detailed within Appendix F of the Document.
- A 1.8 Paragraph 2.2.2 (page 14) of the document states that the guidelines 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."*
- A 1.9 Although primarily designed to be used for residential properties, the BRE Guidelines continue to state that they may be applied to any existing non-residential buildings where there may be a reasonable expectation of daylight including; schools, hospitals, hotels and hostels, small workshops, and some offices.
- A 1.10 Local planning authorities generally consider daylight and sunlight an important factor for determining planning applications. Policies refer to both the protection of daylight and sunlight amenity within existing properties and areas of amenity as well as the creation of proposed dwellings and spaces with high levels of daylight and sunlight amenity.
- A 1.11 Although decision makers will look to the BRE Guidelines to understand any numerical reductions in daylight and sunlight amenity, the acceptability of these reductions is considered against the relevant policies within the development plan. For example, a Site's location within an Opportunity Area or Tall Building Zone is relevant context for how the daylight and sunlight impacts of a development should be considered.

A 1.12 It is an inevitable consequence of the built-up urban environment that daylight and sunlight will be more limited in dense urban areas. It is well acknowledged that in such situations there may be many other conflicting and potentially more important planning and urban design matters to consider other than just the provision of ideal levels of daylight and sunlight.

A 1.13 The following sections extract relevant sections from the Guide.

EFFECTS TO DAYLIGHT

A 1.14 The BRE Guidelines provide two methodologies for daylight impact assessment, namely;

- 1 The Vertical Sky Component (VSC); and
- 2 The No Sky Line (NSL).

Vertical Sky Component (VSC)

A 1.15 The Vertical Sky Component (VSC) method is described in the Glossary of BRE Guidelines as the:

"Ratio of that part of illuminance, at a point on a given vertical plane, that is received directly from a CIE standard overcast sky, to

illuminance on a horizontal plane due to an unobstructed hemisphere of this sky. Usually the 'given vertical plane' is the outside of a window wall. The VSC does not include reflected light, either from the ground or from other buildings"

A 1.16 Put simply, the VSC provides an assessment of the amount of skylight falling on a vertical plane (generally a window) directly from the sky, in the circumstance of an overcast sky (CIE standard).

A 1.17 The national numerical value target "ideal" for VSC is 27%. The BRE Guidelines advise that upon implementation of a development, a window should retain a VSC value of 27% or at least 0.8 of its former value (i.e. no more than a 20% change) as per paragraph 2.2.23 of the Guide.

A 1.18 The VSC calculation is undertaken in both the existing and proposed scenarios so as to make a comparison.

A 1.19 The image in Figure 01 depicts a Waldram Diagram which can be used to calculate the VSC. The existing buildings are solidly pictured with the proposed scheme semi-transparent in the foreground.

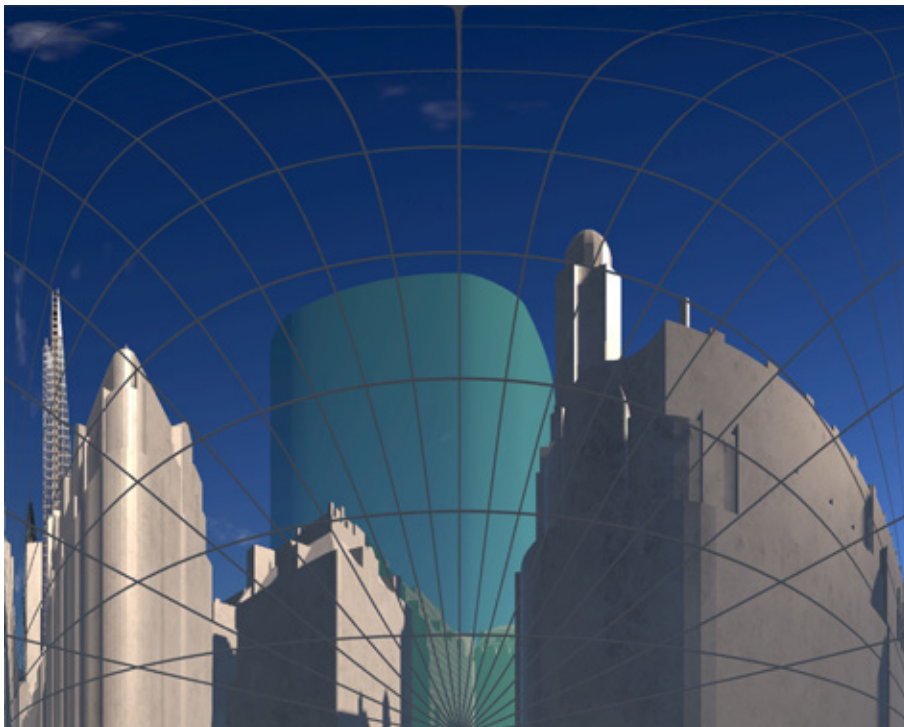


Figure 01: Waldram diagram

A 1.20 This form of assessment does not take account of window size, room use, room size, window number or dual aspect rooms. The assessment also assumes that all obstructions to the sky are 100% non-reflective thereby omitting the consideration of reflection and considering only the light coming directly from the sky.

A 1.21 The images below provide an example of how the VSC methodology does not necessarily paint an accurate picture of the experiential change in daylight condition. Figure 02 shows three windows of different size serving three rooms of identical size. In each case, the windows will have equal VSC values given that VSC is a measurement of the amount of sky visible from the centre point of a window.

A 1.22 The three rooms will experience a very different daylight environment because of the varying window sizes serving each one. Figure 03 depicts how window size affects the distribution of daylight within a room despite each window having an identical VSC value. This highlights that while the VSC methodology is a reasonable starting point to assess daylight, it does not accurately depict the change likely to be experienced with the room.

A 1.23 The BRE Guidelines state that a VSC of 27% VSC or more should mean that enough skylight is reaching the window of an existing building and that if windows retain at least 0.8 times its former value, occupants would not notice the reduction in skylight.

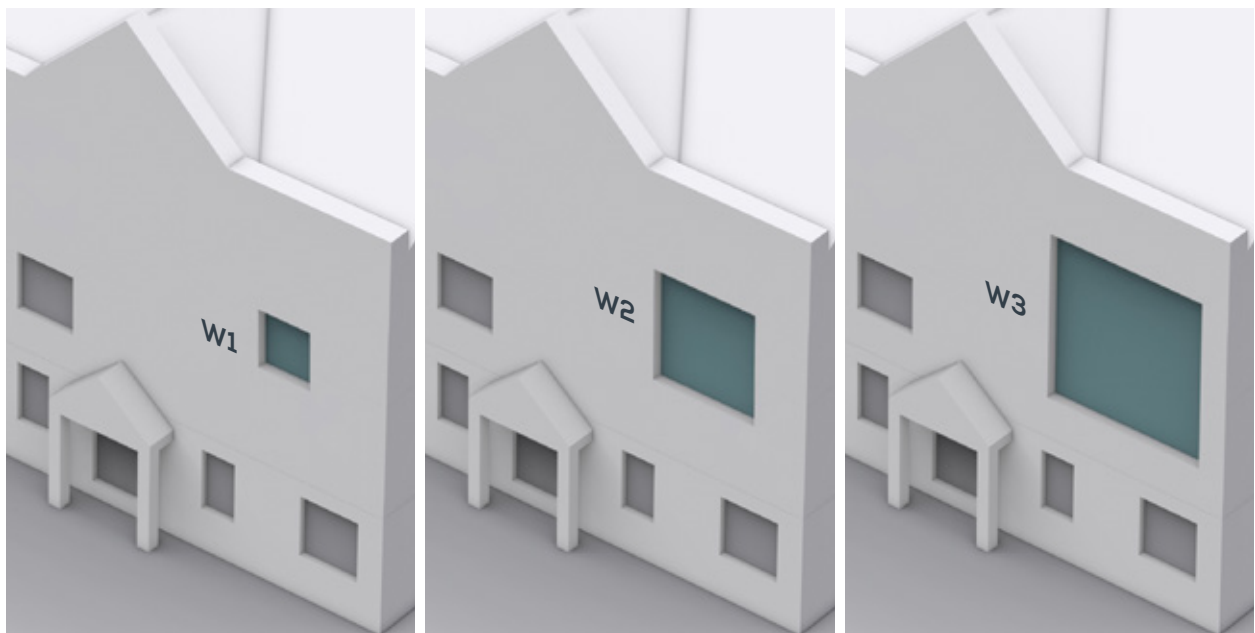


Figure 02: Vertical Sky Component (VSC) indicative analysis

DAYLIGHT FACTOR STUDIES FOR SAMPLE ROOMS WITH SAME VSC

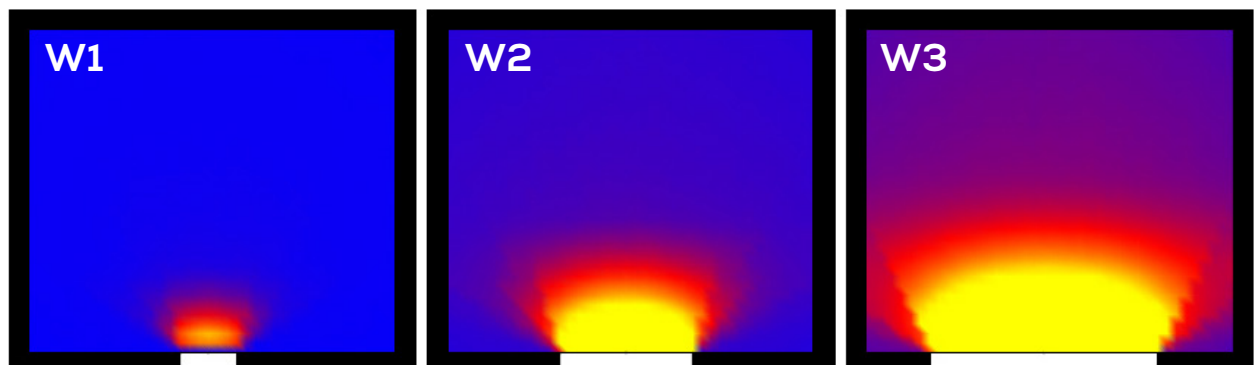


Figure 03: Comparative radiance analysis

A 1.24 As an example, if a window with a retained VSC value of 27% experiences a reduction of 20% thus retaining 21.6% VSC (see Figure 04), the impact would meet the recommendations of the BRE Guidelines by reference to paragraph 2.2.7. This indicates logically that a retained value of 21.6% should be acceptable in principle. Of course, in urban areas, the threshold of what might be acceptable must for the reasons identified above be much more flexible.

A 1.25 If, however, a window has a higher existing value than 27% and it experiences a greater than 20% reduction (which still provides a retained value of 21.7% VSC) the reduction is technically outside of the recommendations of the BRE Guidelines despite an identical retained level of VSC (see Figure 04).

A 1.26 This was explored at the public inquiry for the redevelopment of Hertford Gasworks (PINS Ref:

APP/J1915/W/19/3234842) in which the Inspector considered that a minimum value of 21.6% VSC would be acceptable:

*"The appellant took this further and adopted (with explanation) an approach with a retained VSC of 21.6% as the minimum level. This was specifically accepted by the Council's witness in cross-examination. On that basis, there would be only a very small number of windows falling below that level, and those which did fall would only do so by a narrow margin."*⁴

A 1.27 In this case, the Inspector considered that a minimum VSC value of 21.6% would be appropriate in the county town of Hertford. It would follow that the expectation for dense urban areas and would fall below this minimum VSC value.

4 PINS Ref: APP/J1915/W/19/3234842 (para 57)

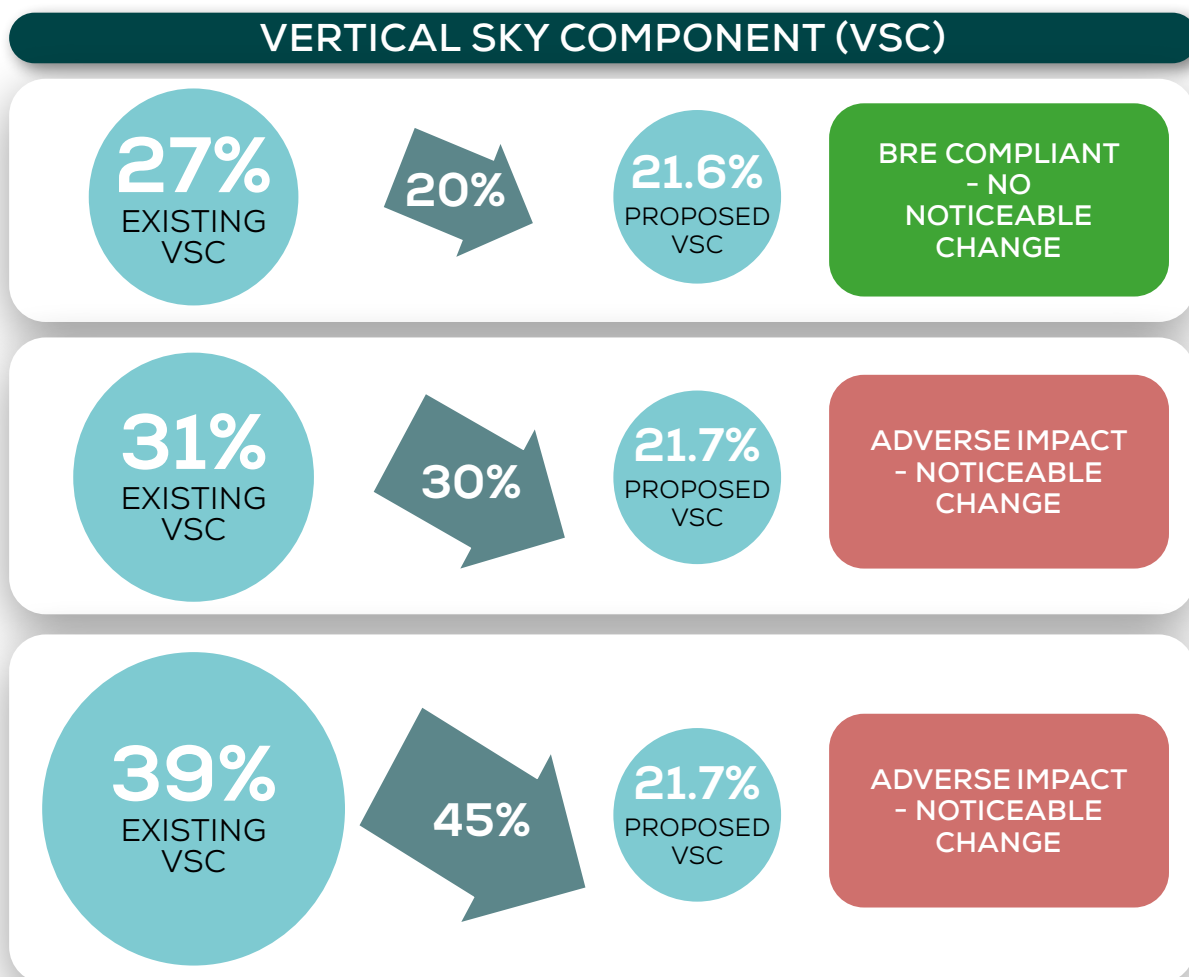


Figure 04: Percentage reduction in VSC and retained VSC values

No Sky Line (NSL)

A 1.28 In addition to the VSC, the BRE recommends the NSL method of assessment where internal layouts are known. Whilst the VSC provides information on the quantum of light reaching a window, the NSL seeks to provide information on how well this light is distributed within the room. The NSL is sometimes also referred to as 'Daylight Distribution' for this reason.

A 1.29 Paragraph D3 of Appendix D of the BRE Guidelines is clear that the no sky line can only be calculated where room layouts are known:

"In most cases the position of the no sky line has to be found from plans. The calculation can only be carried out where room layouts are known. Using estimated room layouts is likely to give inaccurate results and is not recommended. However where plans are available, for example on the local authority's online planning portal, the calculation should be carried out".⁵

A 1.30 The NSL in the Glossary of the guidance as *"the outline on the working plane of the area from which no sky can be seen."* and so the NSL is effectively an assessment of sky visibility within a room. As stated already, the calculation is undertaken across the working plane which in accordance with paragraph 2.2.10 *"in houses [...] is assumed to be horizontal and 0.85m high"*.

A 1.31 Again, both the existing and proposed positions are calculated and presented alongside any change in position of the NSL. The results can then be presented in table format or else illustrated on a contour plot if required, an example of which can be found at Figure 05 overleaf.

A 1.32 The BRE Guidelines state at paragraph 2.2.11 (page 16) that:

"If, following construction of a new development, the no sky line moves so that the area of the existing room, which does receive direct skylight, is reduced to less than 0.8 times its former value this will be noticeable to the occupants, and more of the room will appear poorly lit. This is also true if the no sky line encroaches on key areas like kitchen sinks and worktops."

A 1.33 In accordance with the strict application of the national numerical values, therefore the change in daylight would be noticeable to the occupants should the NSL experience a loss of NSL greater than 20%.

A 1.34 It is relevant to note that this assessment takes the number and size of windows serving a room into account as well as the shape of the room but, being concerned only with sky visibility and the distribution of light, does not consider the quantum of light reaching the room.

⁵ Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press, para D3 p. 79

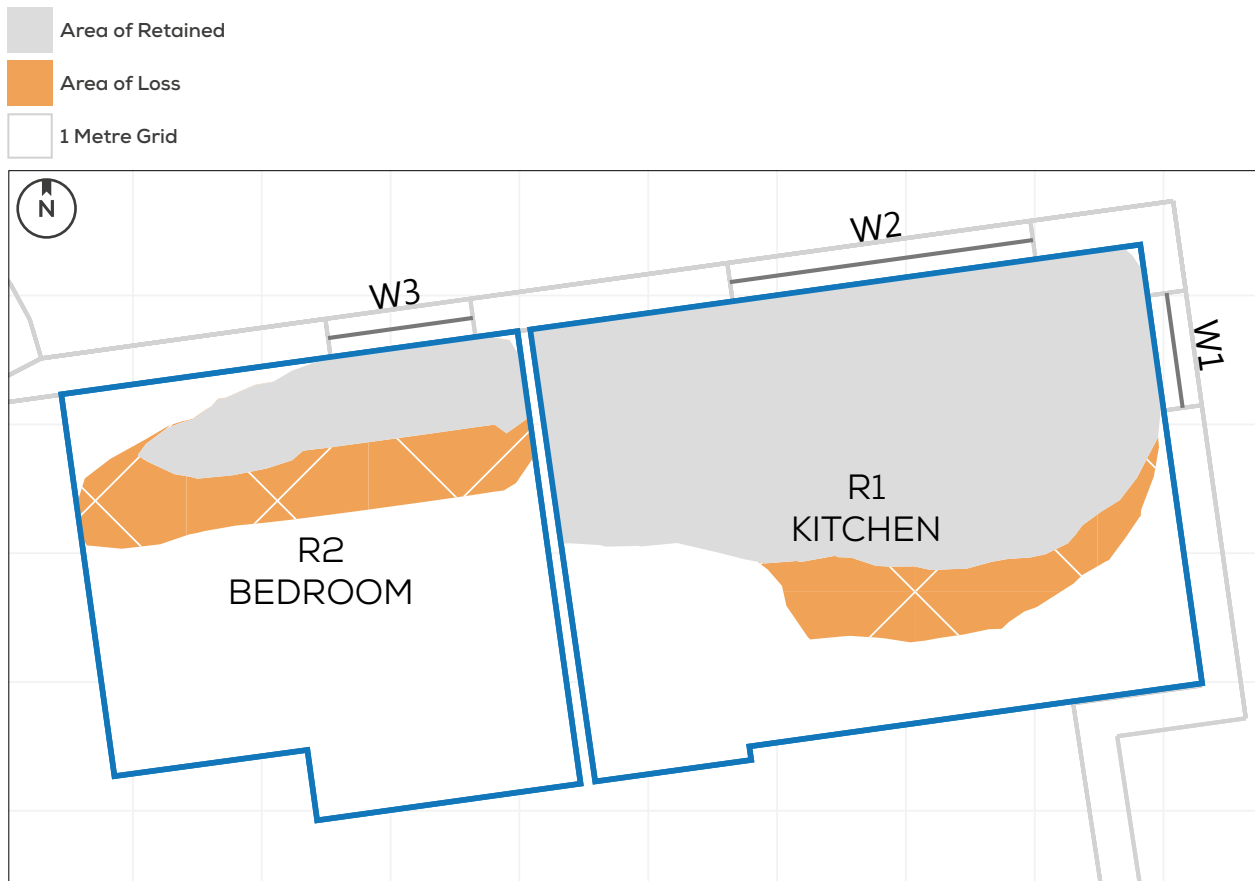


Figure 05: Example NSL Contour Plot

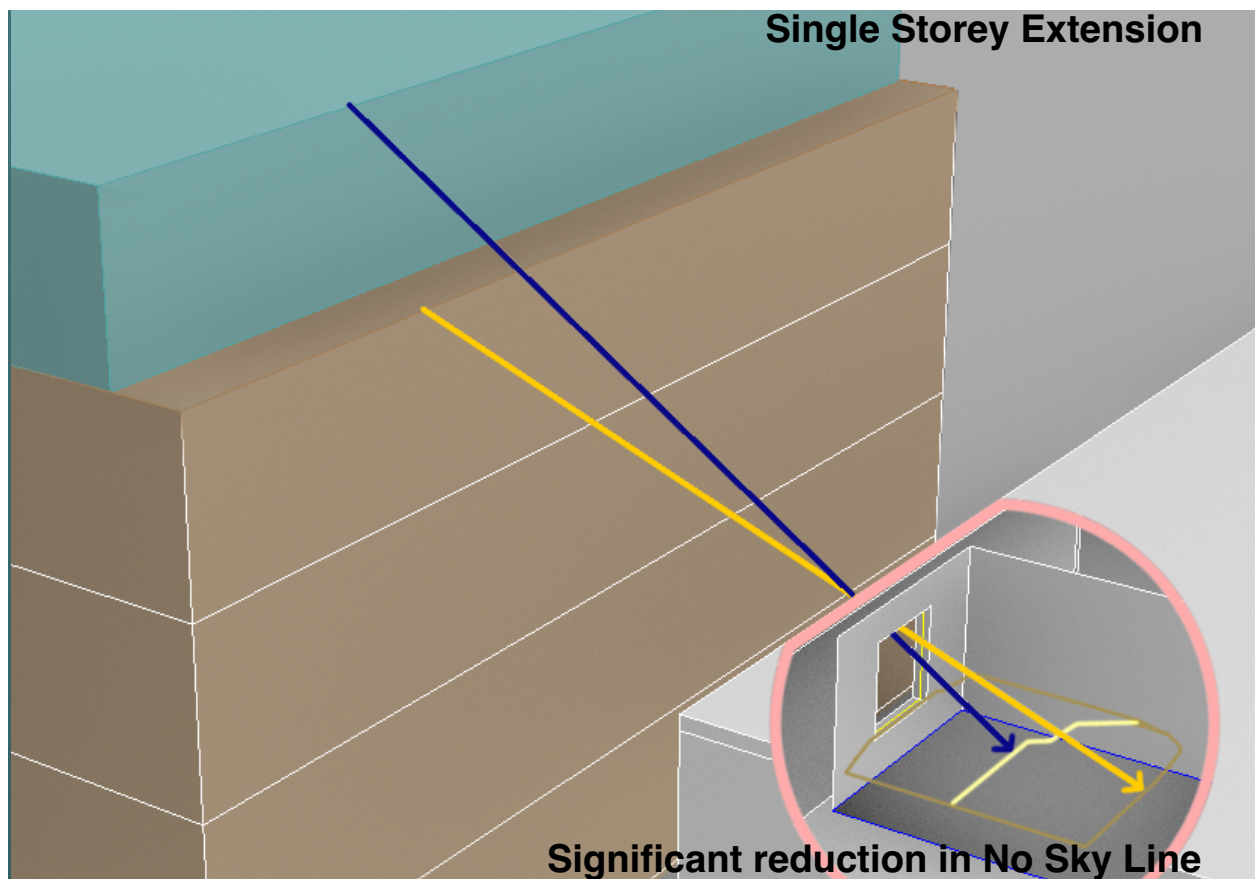


Figure 06: Example of movement of NSL

Decision Chart (Figure 20 of the BRE Guide)

- A 1.35 The flowchart in Figure 09⁶ illustrates the steps and criteria outlined within the BRE Guidelines to understand whether the daylighting (VSC and NSL) has been significantly affected.
- A 1.36 Almost invariably when this methodology is applied in a town centre or more generally in an urban context the flowchart will point to “*daylight likely to be significantly affected*” when the real-life experiential change in light may not appear to be even noticeably affected.
- A 1.37 The section at Figure 08⁷ provides an example of the angle measurement subtended by a new development. This is the starting point provided within the BRE Guidelines from which to assess whether daylighting is likely to be significantly affected by new development. It is clear from the image that this principle has not been developed with urban town centre locations in mind.⁸

6 Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press, Figure 20 p. 18

7 Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press, Figure 14 p. 15

8 Appeal Ref: APP/E5900/W/17/3171437 para 108

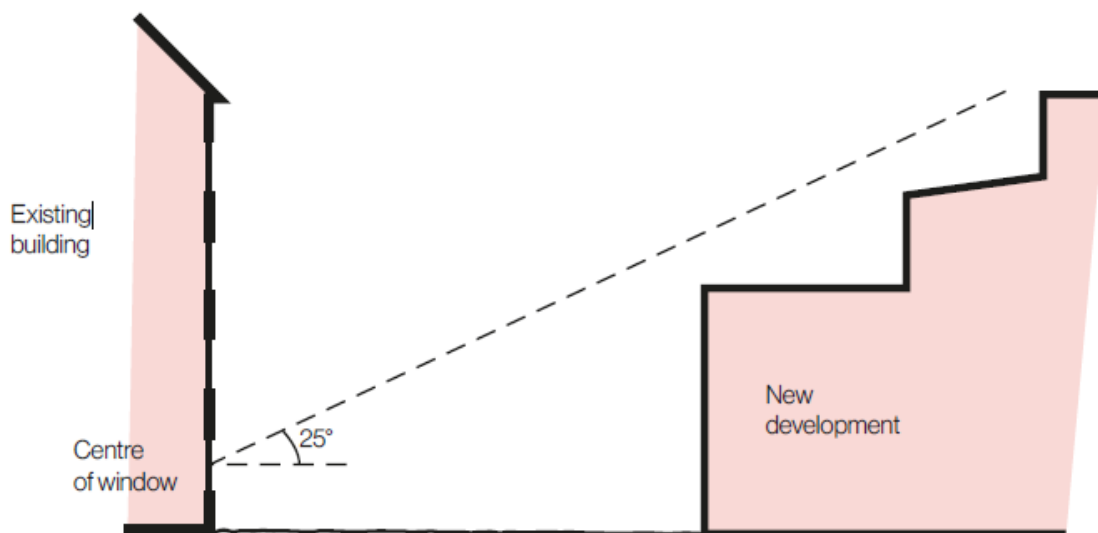


Figure 08: BRE VSC diagram (Figure 14): Section in plane perpendicular to the affected window wall

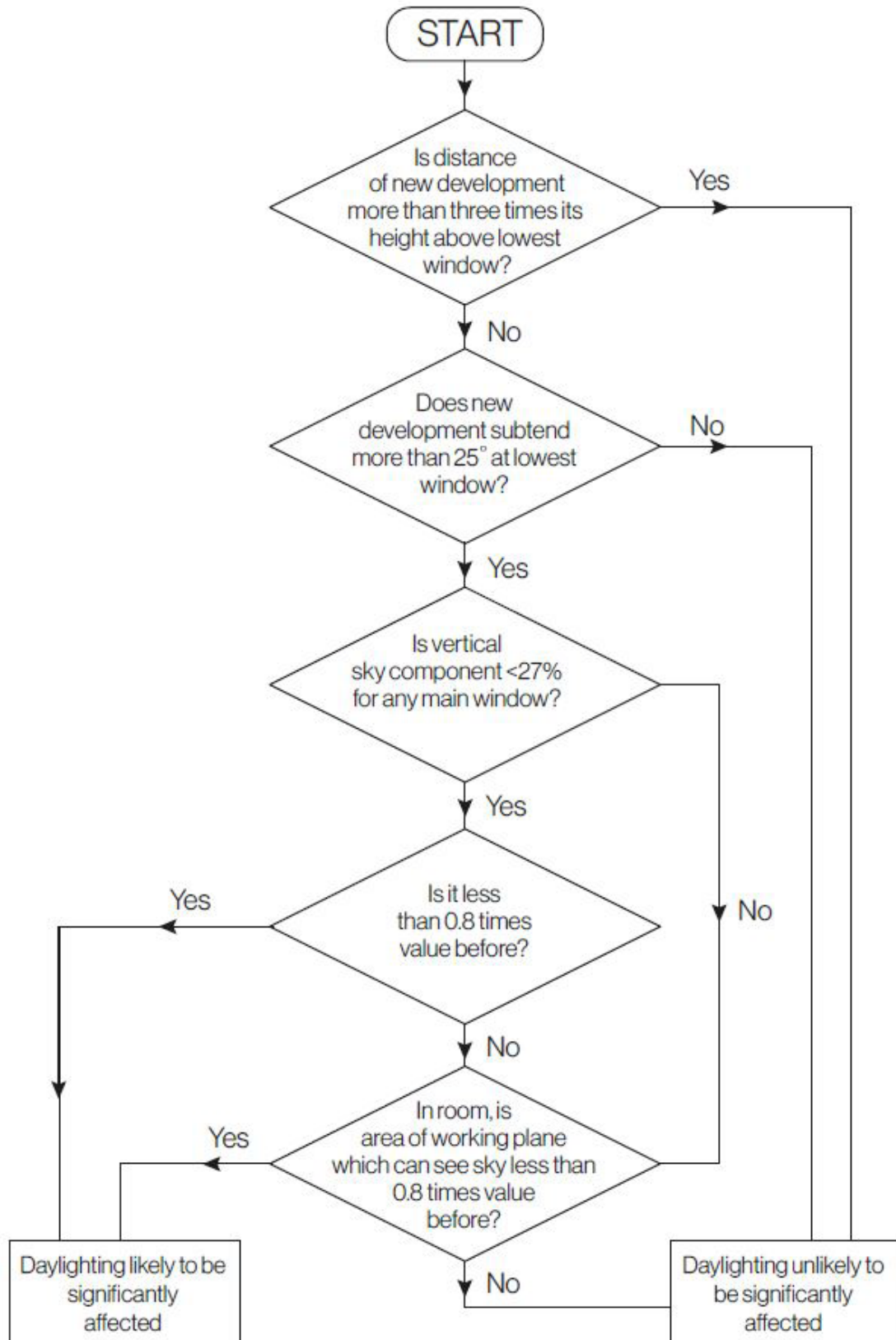


Figure 09: BRE Decision Chart (Figure 20): diffuse daylight in existing buildings.

EFFECTS TO SUNLIGHT

Annual Probable Sunlight Hours (APSH)

A 1.38 The BRE Guidance suggests that to understand sunlight impacts to a property, an assessment of Annual Probable Sunlight Hours (APSH) is undertaken. The APSH is defined in the Glossary as:

“the long-term average of the total number of hours during a year in which direct sunlight reaches the unobstructed ground (when clouds are taken into account)”

A 1.39 Expanding on the above, long-term averages were used to position 100 spots in the sky, representative of sunlight over the whole year. Correlating to the probability of the sun to shine, the majority of these (70) are at times to the six-months containing summer (from spring equinox to autumn equinox) which 30 are the ‘winter’ months from autumn equinox to spring. The APSH is calculated though calculating how many of these ‘spots’ can be seen from a location (normally a window) both overall and how many of these are during the winter months.

A 1.40 To understand the potential sunlight impacts therefore, all windows facing within 90 degrees of due south and overlooking the development are generally assessed for APSH.

A 1.41 The BRE Guidelines set out the overall methodology and criteria for the assessment of Sunlight in Chapter 3. The BRE Guidelines state in paragraph 3.2.3 and 3.2.5:

“To assess loss of sunlight to an existing building, it is suggested that all main living rooms of dwellings, and conservatories, should be checked if they have a window facing within 90 degrees of due south. Kitchens and bedrooms are less important, although care should be taken not to block too much sun.”

“A point at the centre of the window on the outside face of the window wall may be taken.”

A 1.42 In interpreting the results, the BRE Guidance states in summary 3.2.13 that:

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

- receives less than 25% of annual probable sunlight hours, or less than 5% of annual probable sunlight hours between 21 September and 21 March, and*
- receives less than 0.8 times its former sunlight hours during either period; and*
- has a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.”*

A 1.43 The image in Figure 10 depicts the APSH sun spots overlaid on a Waldram Diagram. The existing buildings are solidly pictured with the proposed scheme semi-transparent in the foreground. The yellow spots indicate summer sun and the blue spots indicate winter sun.

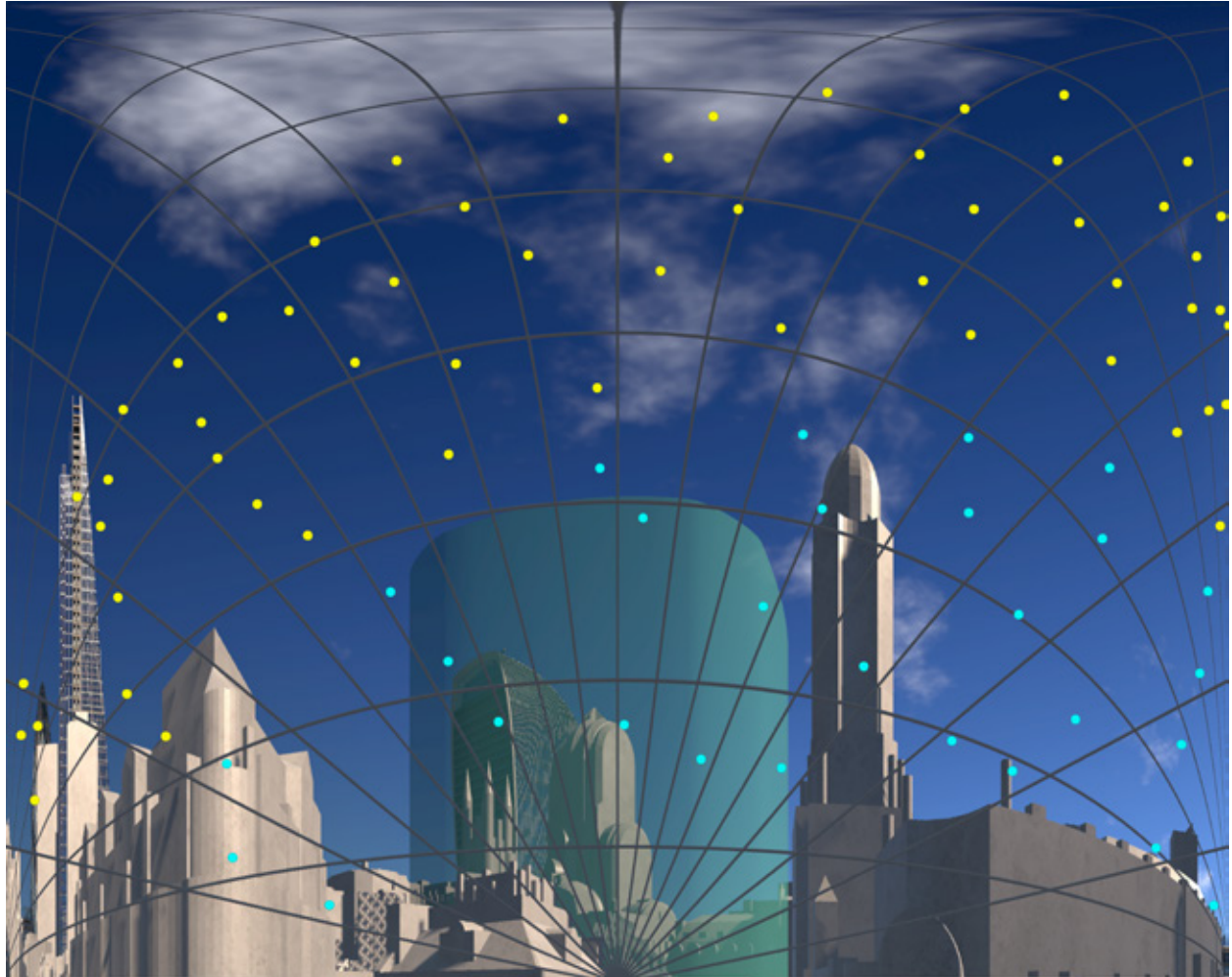


Figure 10: Waldram diagram

Sun Analysis Key:

- Winter sun restricted by the existing buildings
- Summer sun restricted by the existing buildings
- No impact to Winter sun
- No impact to Summer sun
- Winter sun restricted by the Proposed Development
- Summer sun restricted by the Proposed Development

EFFECTS TO OVERSHADOWING

A1.44 The BRE Guidelines consider overshadowing of amenity spaces in section 3.3 which states:

Sunlight in the spaces between and around buildings has an important impact on the overall appearance and ambience of a development. It is valuable for a number of reasons, to:

- *provide attractive sunlit views (all year)*
- *make outdoor activities like sitting out and children's play more pleasant (mainly warmer months)*
- *encourage plant growth (mainly spring and summer)*
- *dry out the ground, reducing moss and slime (mainly in colder months)*
- *melt frost, ice and snow (in winter)*
- *dry clothes (all year).*

A1.45 It must be acknowledged that in urban areas the availability of sunlight on the ground is a factor which is significantly controlled by the existing urban fabric around the site and so may have very little to do with the form of the development itself.

A1.46 Likewise, there may be many other urban design, planning and site constraints which determine and run contrary to the best form, siting and location of a proposed development in terms of availability of sun on the ground.

Transient Overshadowing

A1.47 In order to ascertain the additional overshadowing impact that a development would have on the neighbouring properties amenity, the hourly shadows can be mapped for the following three key dates in the year:

- 21st March (Spring Equinox);
- 21st June (Summer Solstice); and
- 21st December (Winter Solstice).

A1.48 While the BRE Guidelines do not provide any criteria for Transient Overshadowing, the above dates are generally selected so as to present the mid-case, the best and worst scenarios. On 21st March, the sun is in the same position as on 21st September and

therefore the results presented are valid for both equinoxes. On 21st June, the sun is at its highest and the shadows cast are shortest, therefore this date represents a best-case scenario in terms of overshadowing. On 21st December, the sun is at its lowest point causing longer shadows to be cast and represents the worst-case scenario.

A1.49 For each of these dates, specialist simulation software is used to produce images showing the shadows cast at hourly intervals throughout the day from sunrise to sunset.

A1.50 Two images are produced for each time and presented beside each other for comparison purposes. Shadows from neighbouring buildings are coloured grey but should additional shadow be cast by the existing or proposed buildings, these are coloured in green or blue to provide clarification on the cause of the shadow.

A1.51 In order to produce the images, it is necessary to create an accurate 3D model of the existing buildings, proposed scheme and surrounding buildings. The surrounding and existing buildings are modelled from photogrammetry, providing a precise model which in turn ensures that the analysis accurately represents the overshadowing conditions within the assessed area.

A1.52 Where the overshadowing conditions of an area cannot be clearly identified by the transient assessments, a Sun Hours on Ground test and a Sun Exposure analysis are provided. The Sun Exposure analysis illustrates in false-colours the exact number of hours of sunlight available in the area. Sun Exposure is not relevant for the BRE Guidelines.

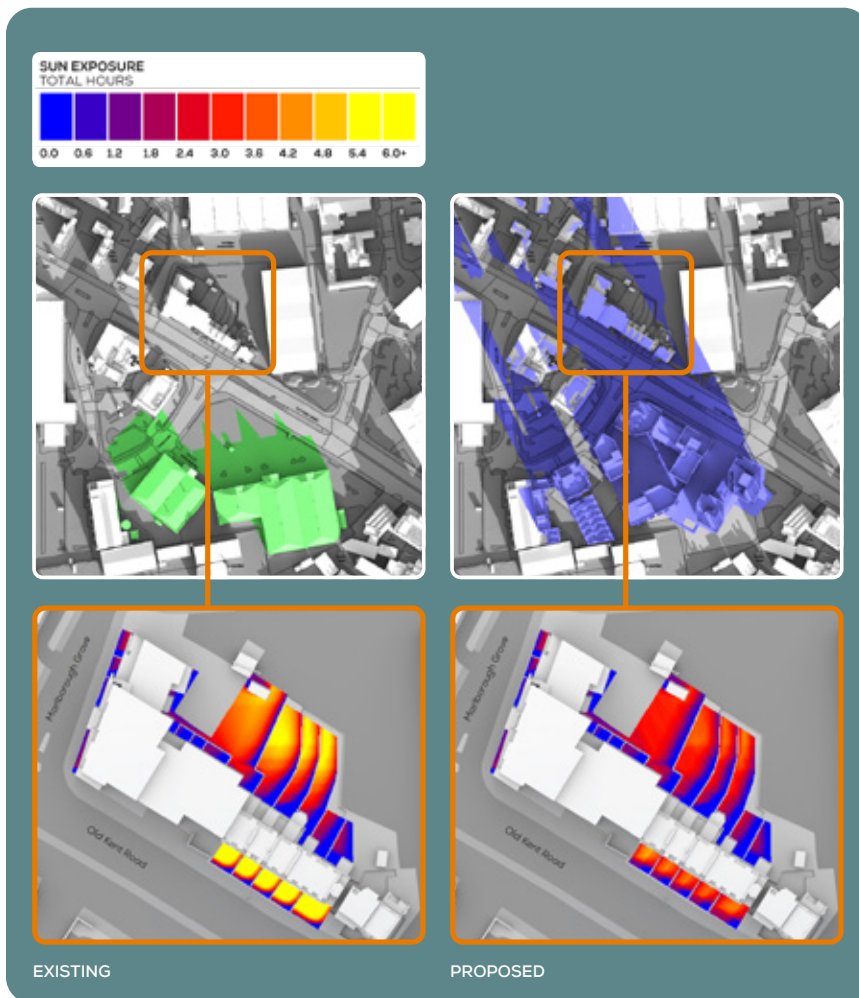


Figure 11: Example of Transient Overshadowing and Sun Exposure Analyses

Sun Hours on Ground

- A1.67 Sun Hours on Ground assessments can be undertaken to illustrate the sunlight availability within outdoor amenity areas, both within a proposed development and within the neighbouring properties.
- A1.68 The BRE Guidelines suggests that Sun Hours on Ground assessments should be undertaken on the Equinox (21st March and 21st September). Using specialist software, the path of the sun is tracked to determine where the sun would reach the ground and where it would not.
- A1.69 As with regard to any other site layout-dependent factors, the quality of an outdoor open space is determined by an array of important amenities like greenery, landscape, accessibility and design for instance, of which sun on ground is one component.

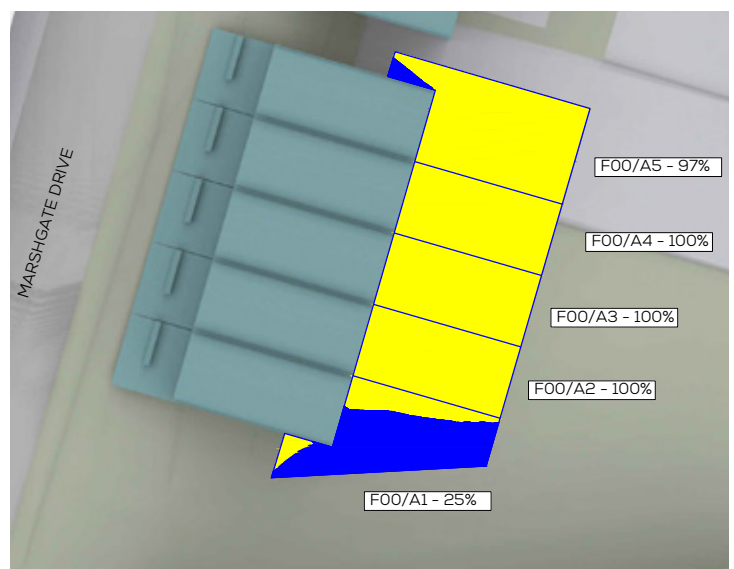


Figure 12: Example Sun Hours on Ground Assessment

- AREA THAT RECEIVES MORE THAN 2 HOURS OF DIRECT SUNLIGHT ON 21st MARCH
- AREA THAT RECEIVES LESS THAN 2 HOURS OF DIRECT SUNLIGHT ON 21st MARCH

BRE GUIDELINES: ADDITIONAL DAYLIGHT AND SUNLIGHT TESTS

VSC and APSH to Rooms

- A1.53 As outlined within the BRE Guidelines (paragraph 2.2.6), the VSC value is calculated for each window; however:

"If a room has two or more windows of equal size, the mean of their VSCs may be taken".

- A1.54 Where a room is served by two or more windows of the same or different sizes, the VSC value to the room can be calculated by applying an average weighting calculation to understand the VSC value to the room. The formula used is as follows;

$$\Sigma(V_n \cdot A_n) / \Sigma A_n$$

Where:

V = window VSC

A = window area

n = the number of windows

- A1.55 The BRE provide a methodology to calculate APSH in relation to the room and window, paragraph 3.1.12 states:

"If a room has multiple windows, the amount of sunlight received by each can be added together provided they occur at different times and sunlight hours are not double counted."

- A1.56 The above extract of the BRE is in relation to proposed units rather than existing buildings. It does, however, make sense to apply this methodology to existing rooms as well, when room layouts are known as a room served by multiple windows could receive the benefit of sunlight from all windows and not just one.

- A1.57 GIA calculate the APSH room assessment in the following way:

- 1 The sunlight hours (both winter and annual) are calculated for each window. Instead of simply returning the overall per cent pass rate, i.e. one figure for winter, and one for the whole year, the yes/no result of each of the 100 sun spots is tracked. For this accounting to work, each sun dot needs to be assigned a unique identifier, e.g. from 1 to 100;
- 2 The sets of 100 sun spots are combined for each

room using Boolean logic, i.e. conjunctions of yes/no values. The outcome of this step is a set of 100 yes/no values corresponding to the 100 sun spots, but on a per-room basis. Each per-room dot is counted if it is unobstructed for at least one of its windows; and

- 3 The unobstructed sun dots for the room are summed up and expressed as a percentage of the total number of annual and winter spots.

Balconies/Overhangs

- A1.58 The BRE recognises that existing architectural features on neighbouring buildings such as balconies and overhangs inherently restrict the quantum of skylight to a window. The BRE Guidelines note on page 11, paragraph 2.1.17 and page 16, paragraph 2.2.13:

"This is a particular problem if there are large obstructions opposite; with the combined effect of the overhang and the obstruction, it may be impossible to see the sky from inside the room, and hence to receive any direct skylight or sunlight at all."

"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 relative impact on the VSC, and on the area receiving direct skylight. One way to demonstrate this would be to carry out an additional calculation of the VSC and the area receiving direct skylight, for both the existing and proposed situations, without the balcony in place."

- A1.59 As noted by the BRE Guidelines, where there are existing overhanging features, larger reductions in skylight and sunlight may be unavoidable and alternative criteria can be used. The guidance suggests that in such situations a calculation is carried out that excludes the balcony or the obstruction.

DAYLIGHT - MIRROR MASSING & ADJOINING DEVELOPMENT LAND

Alternative target Values for Skylight and Sunlight Access "Mirror Massing"

A 1.60 The BRE Guidelines provide a calculation for the VSC and APSH analysis to quantify an appropriate alternative value based on the context of an environment. This approach is known as the 'mirror image' analysis (see Figure 12).

A 1.61 The BRE notes in paragraph F5:

"where an existing building has windows that are unusually close to the site boundary and taking more than their fair share of light. Figure F3 shows an example where side windows of an existing building are close to the boundary. To ensure that new development matches the height and proportions of existing buildings, the VSC and APSH targets for these windows could be set to those for a 'mirror-image' building of the same height and size, an equal distance away on the other side of the boundary."

A 1.62 This analysis is used to understand the levels of Daylight (VSC) and Sunlight (APSH) that would be experienced by an extant neighbouring property if there were a building of the same height and extent opposite.

A 1.63 The mirror image assessment is fairly simplistic and is not, therefore, easily applied to large and complex site footprints which are not all built at equal distances from the site boundary or of the same footprint.

Adjoining Development Land

A 1.64 The "Adjoining Development Land" analysis provided within the BRE Guidelines is a simple test to ensure that a proposal is a reasonable distance from the boundary so as to "enable future nearby developments to enjoy a similar access to daylight." (2.3.1)

A 1.65 The BRE comments in paragraphs 2.3.3, 2.3.6 and 2.3.7 that:

"The diffuse daylight coming over the boundary may be quantified in the following way. As a first check, draw a section in a plane perpendicular to

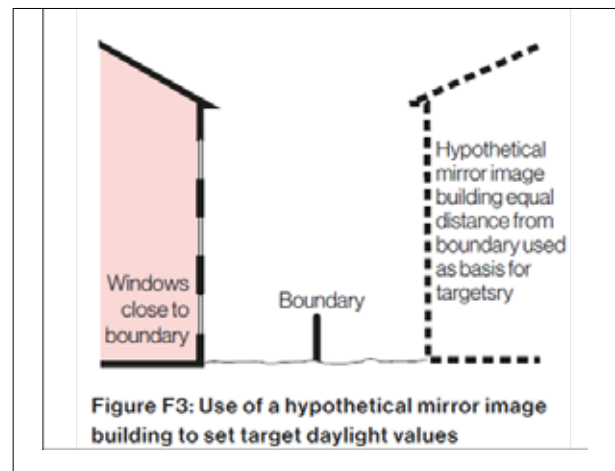


Figure 13: Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press p 87 Figure F3

the boundary (Figure 21). If a road separates the two sites then the centre line of the road should be taken. Measure the angle to the horizontal subtended at a point 1.6 metres above the boundary by the proposed new buildings. If this angle is less than 43° then there will normally still be the potential for good daylighting on the adjoining development site (but see Sections 2.3.6 and 2.3.7)."

"The guidelines above should not be applied too rigidly. A particularly important exception occurs when the two sites are very unequal in size and the proposed new building is larger in scale than the likely future development nearby. This is because the numerical values above are derived by assuming the future development will be exactly the same size as the proposed new building (Figure 22). If the adjoining sites for development are a lot smaller, a better approach is to make a rough prediction of where the nearest window wall of the future development may be; then to carry out the 'new building' analysis in Section 2.1 for this window wall."

"The 43° angle should not be used as a form generator, to produce a building which slopes or steps down towards the boundary. Compare Figure 23 with Figure 22 to see how this can result in a higher than anticipated obstruction to daylight. In Figure 23 the proposed building subtends 34° at its mirror image, rather than the maximum of 25° suggested here. In cases of doubt, the best approach is again to carry out a new building analysis for the most likely location of a window wall of a future development."

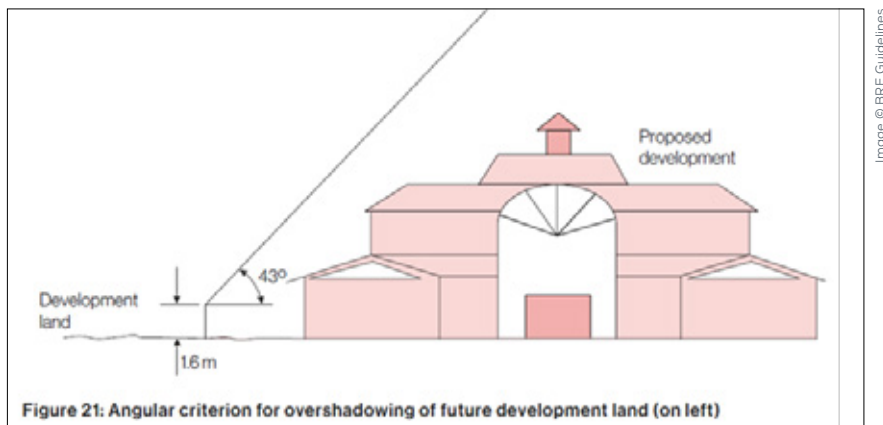


Figure 14: Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press p 19 Figure 21

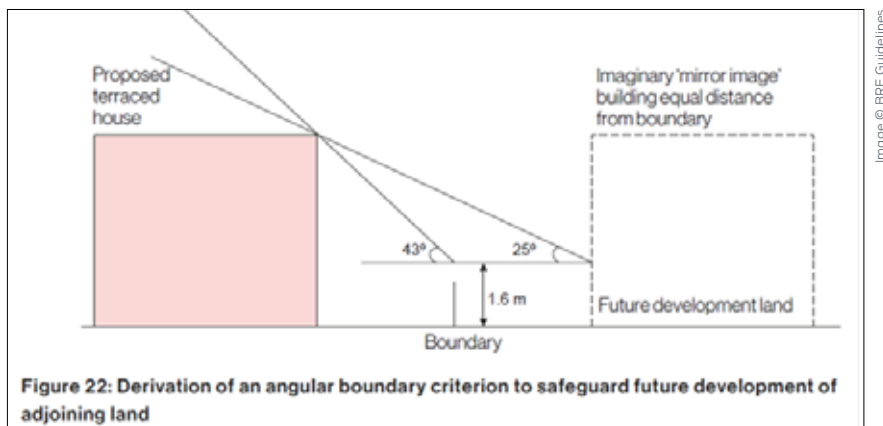


Figure 15: Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press p 20 Figure 22

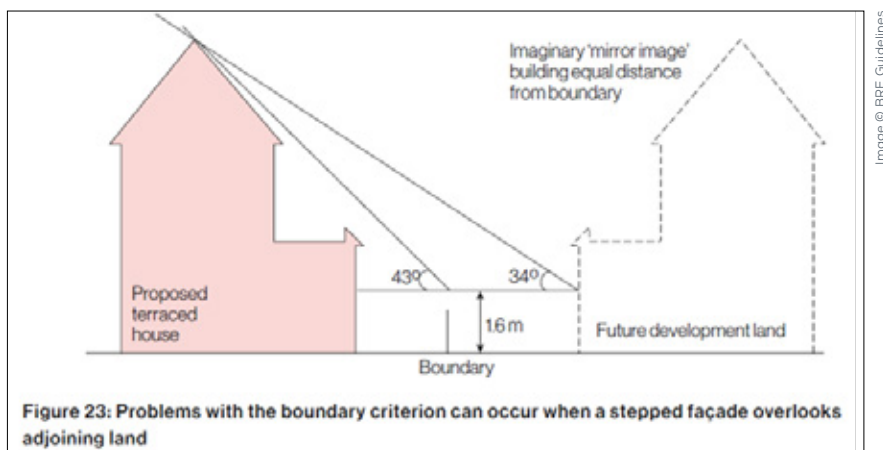


Figure 16: Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press p 20 Figure 23

A 1.66 As outlined above, the Adjoining Development Land analysis is predicated on ensuring that a proposal next to future development land is not negatively impacting the ability to develop in consideration of light matters.

PHOTOVOLTAICS

- A1.70 Paragraph 4.5.2 states that “where a proposed development may result in loss of radiation to existing solar panels (either photovoltaic or solar thermal), an assessment should be carried out.”
- A1.71 Paragraph 4.5.8 states that “Where the annual probable sunlight hours received by a solar panel with the new development in place is less than 0.90 times the value before, a more detailed calculation of the loss of solar radiation should be undertaken. This is a specialist type of assessment and expert advice should be sought. The assessment should include both direct solar and diffuse sky radiation; over a whole year, around 60% of the radiation received on a horizontal roof comes from the sky. However, reflected radiation from the ground and obstructions need not be included. The modelling should take account of the effects of cloud in reducing direct solar radiation at different times of year, and include a realistic simulation of the way that incoming solar radiation varies from different parts of the sky.”
- A1.72 Paragraph 4.5.9 states that “if over the whole year the ratio of total solar radiation received with the new development, to the existing value is less than the values given in Table 2, then the loss of radiation is significant.”
- A1.73 Finally, paragraph 4.5.10 notes that “numerical values given are purely advisory. Different criteria may be used based on the requirements for solar energy in an area viewed against other site layout constraints. Another important issue is whether the existing solar panels are reasonably sited, at a sensible height and distance from the boundary. A greater loss of solar radiation may be inevitable if panels are mounted close to the ground and near to the site boundary.”

OTHER AMENITY CONSIDERATIONS

- A1.74 Daylight and sunlight is one factor among many under the heading of residential amenity considerations for any given development design or planning application; others include:
- View;
 - Privacy;
 - Security;
 - Access;
 - Enclosure;
 - Microclimate;
 - Solar Dazzle; and
 - Solar Convergence.

TABLE 2: RECOMMENDED MINIMUM RATIOS OF SOLAR RADIATION RECEIVED

SLOPE OF SOLAR PANEL IN DEGREES TO HORIZONTAL	RECOMMENDED MINIMUM RATIO OF RADIATION RECEIVED AFTER/BEFORE
0-30	0.90
30.01-59.99	0.85
60-90	0.80

APPENDIX 02

DRAWINGS

EXISTING

ALL INFORMATION DISPLAYED IS SUBJECT TO A COMPLETE VERIFIABLE SITE SURVEY BEING UNDERTAKEN, ON TIMES NO RESPONSIBILITY ON THE ACCURACY OR RELIABILITY OF THE DISPLAYED DATA SINCE A VERIFIED SITE SURVEY WAS NOT MADE AVAILABLE PRIOR TO THE GENERATION OF SUCH INFORMATION.

NOTES:
Existing
ALL HEIGHTS AND DIMENSIONS GIVEN IN m A.O.D
A.O.D: PLEASE ADD INFO

N.B. DO NOT SCALE OFF THIS DRAWING

PROJECT:

20000 - JOHN LEWIS, READING

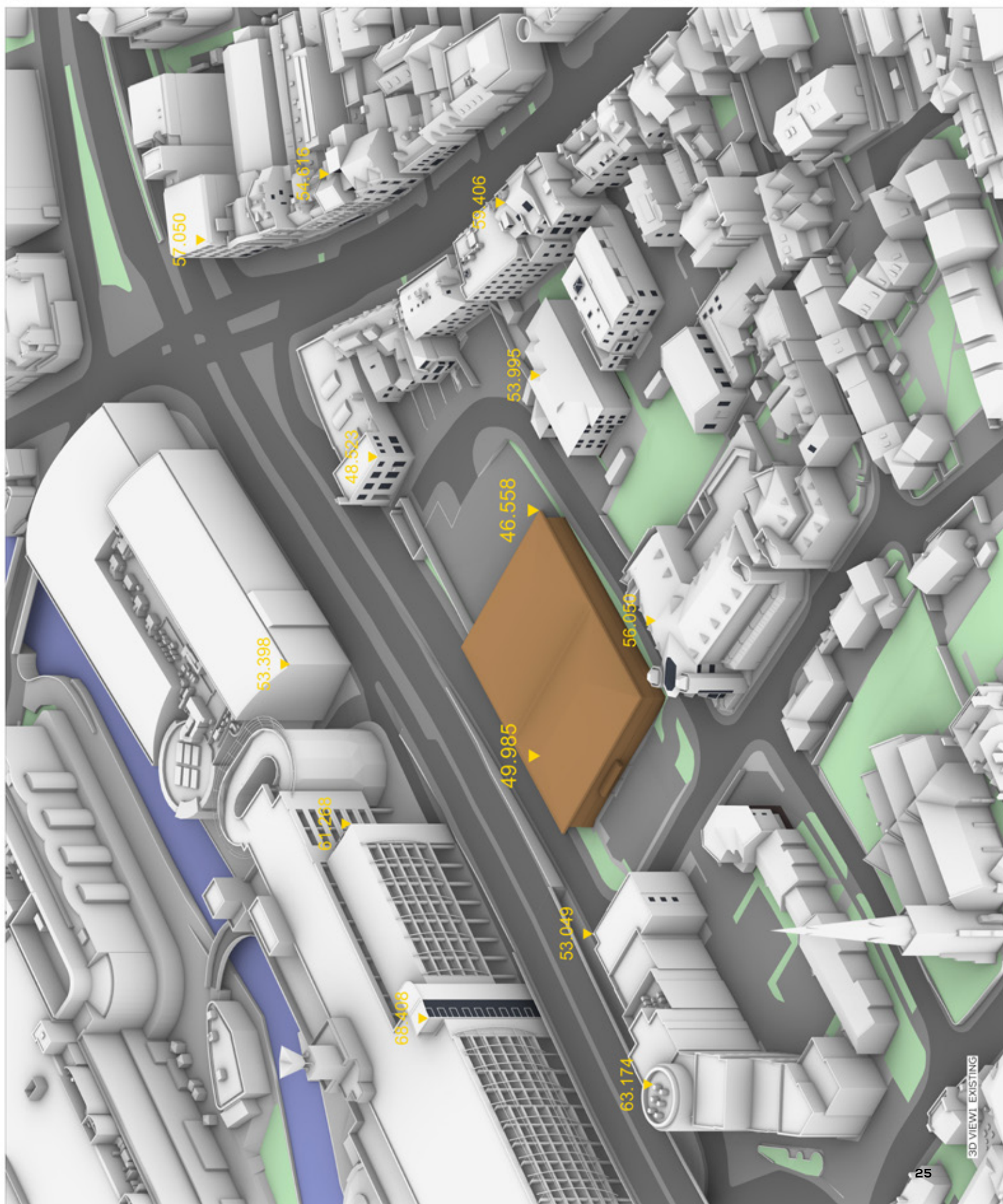
DRAWING NAME:
3D VIEW1 EXISTING

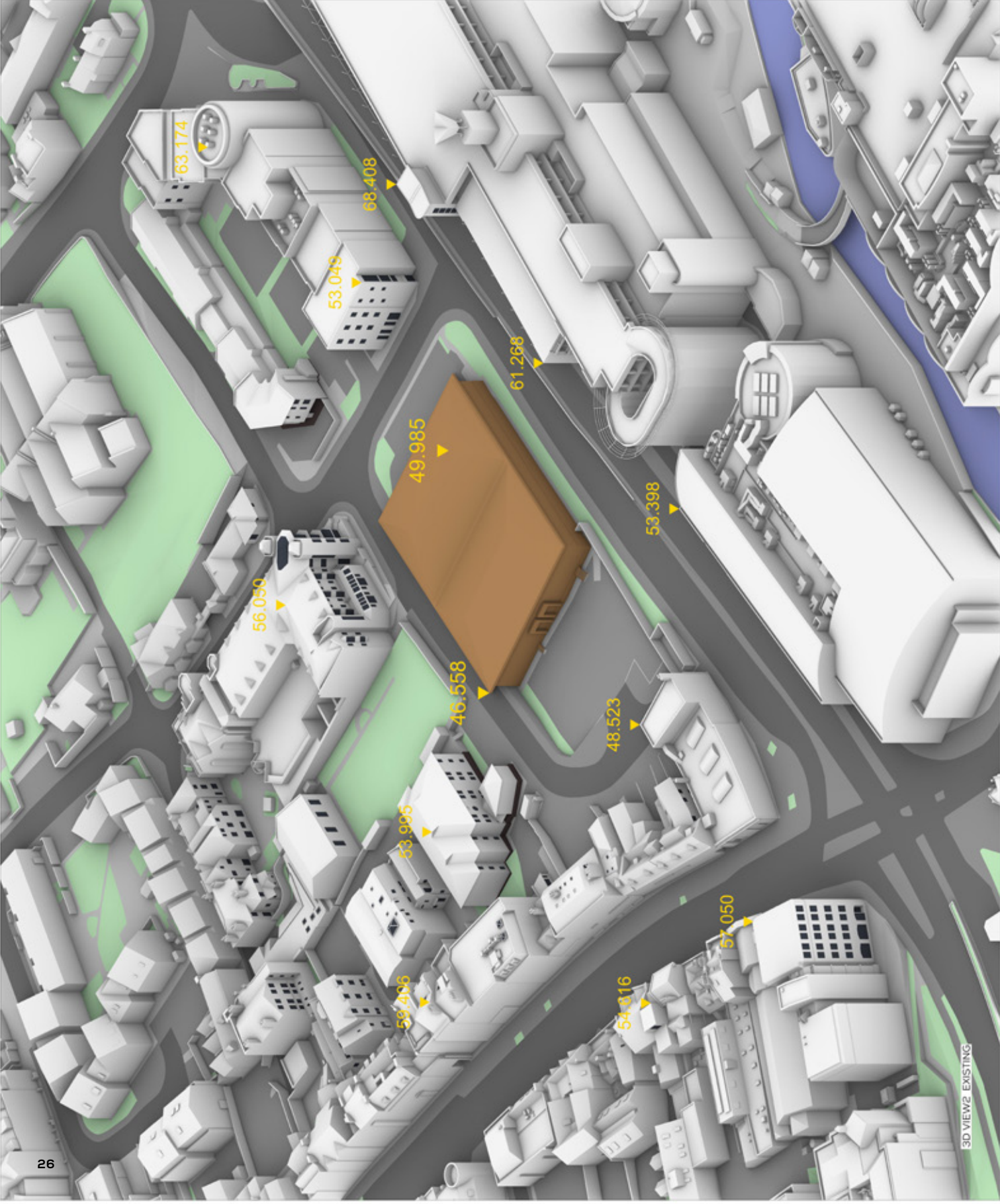
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APPENDIX 02
DRAWINGS:

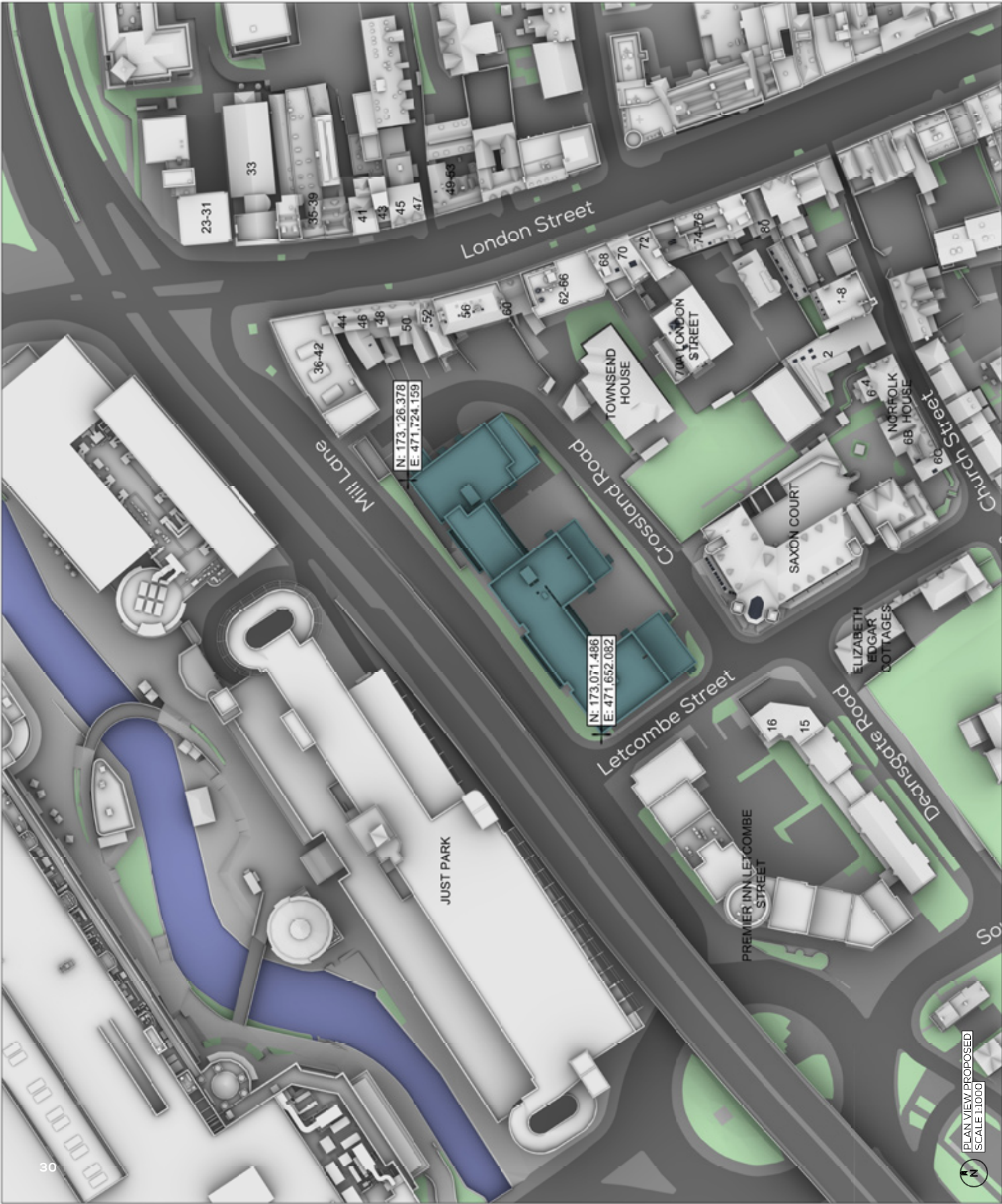
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PROJECT:

JOHN LEWIS, READING

DRAWING NAME:

DRAWING NAME: 3D VIEW1 PROPOSED

PROPOSED IR24

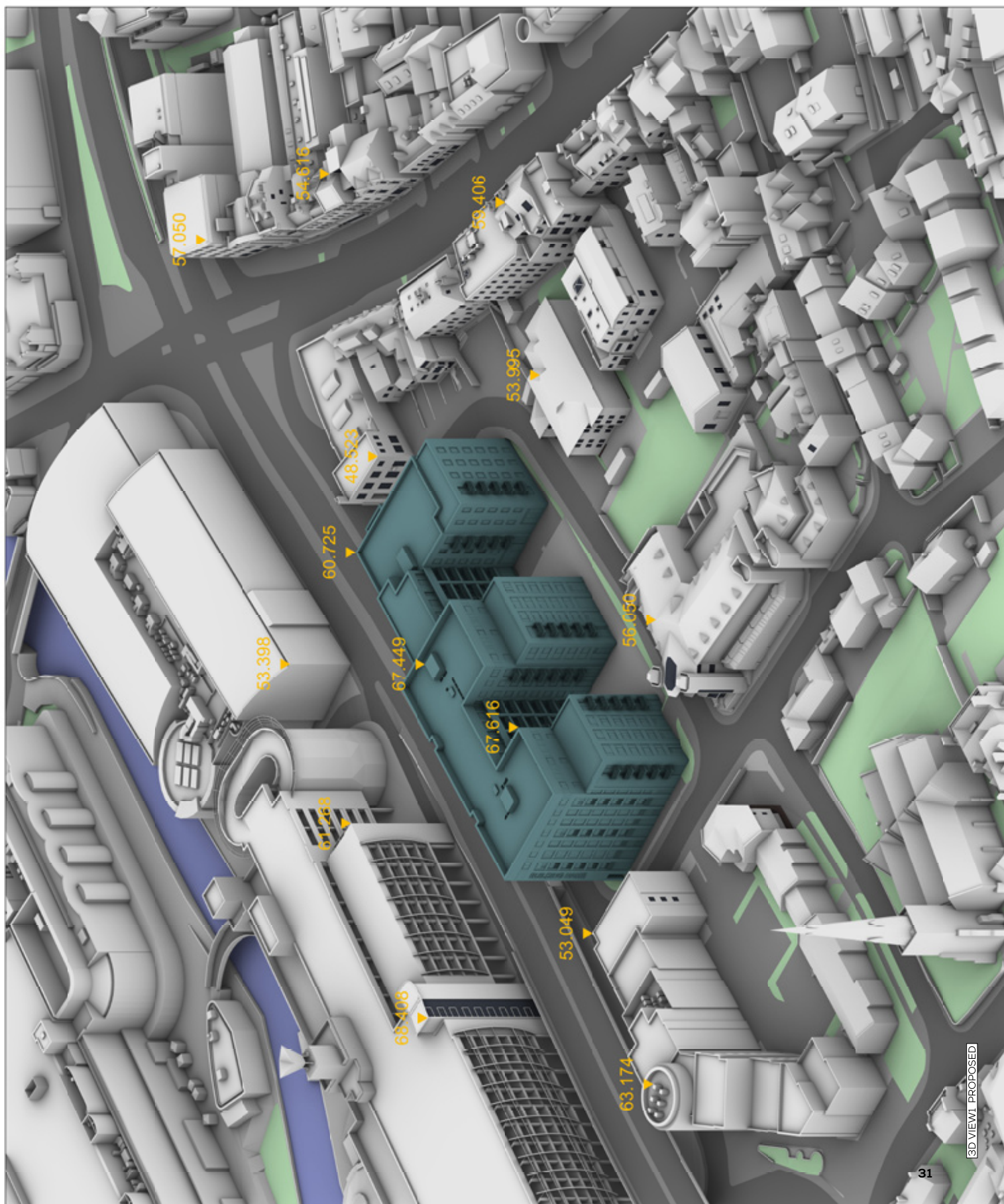
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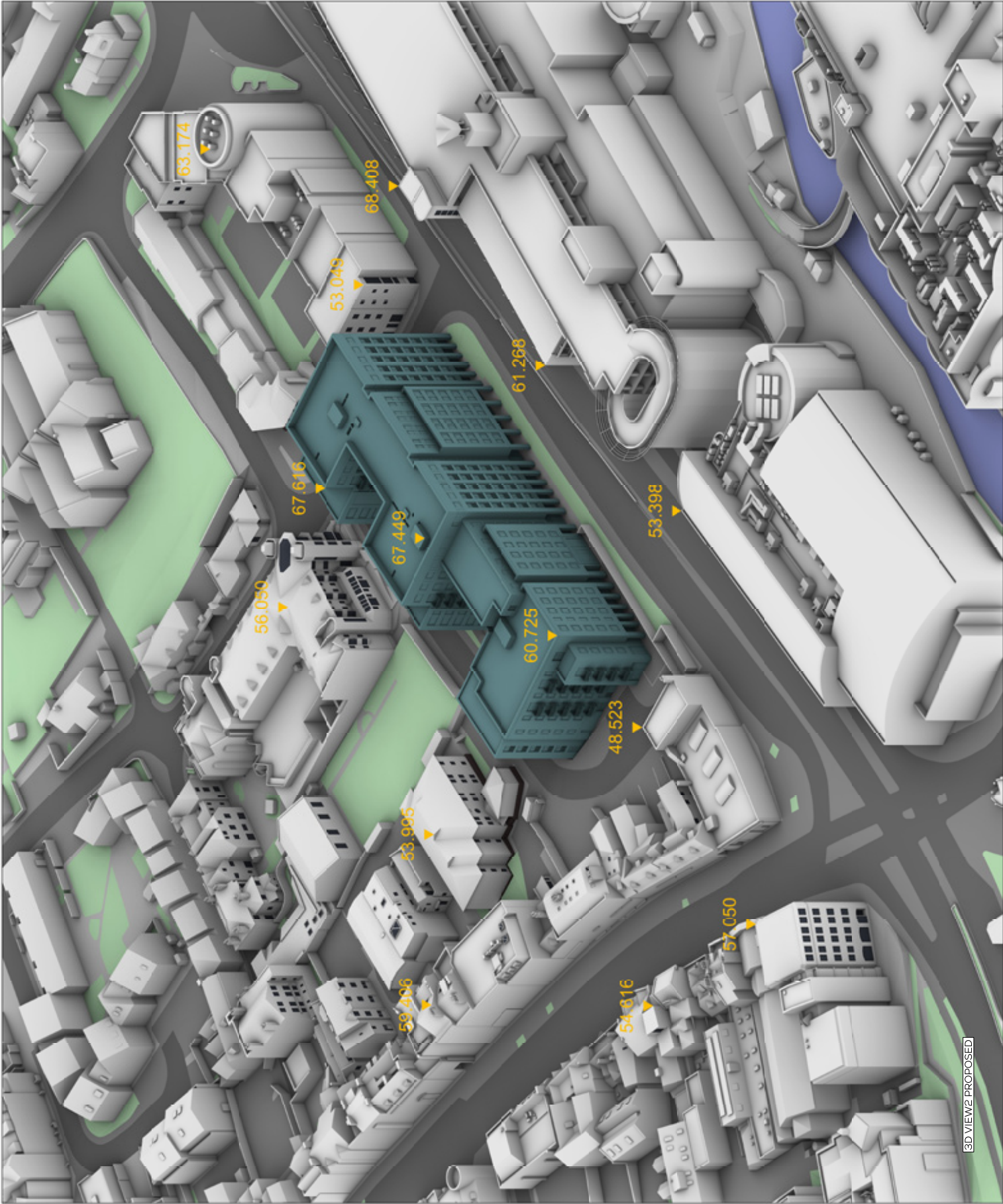
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SOURCES OF INFORMATION									
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20000	13	-	01	03					
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APPENDIX 03

ASSUMPTIONS

APPENDIX 03 ASSUMPTIONS

01

A 3.1 A measured survey has been carried out by GIA. This has been used to understand the base levels and heights of the surrounding buildings and the location and size of those apertures that surround and face the site. This survey was carried out on 27.10.2023 and issued to GIA on 27.10.2023. Any change to the surrounding environment since GIA carried out the survey has not been captured.

A 3.2 Where buildings were beyond the scope of the survey or were unable to be scanned due to foliage or inherent site constraints GIA have used a mix of site photographs and OS information to estimate as closely as possible the position of buildings and windows within the relevant elevations.

02

A 3.3 GIA have sought to create the most accurate 3D model possible based on the data available, however, a degree of tolerance should be applied.

03

A 3.4 The scope of buildings assessed has been determined as a reasonable zone which considers both the scale of the proposed scheme and the proximity of those buildings which surround and face the site. There may be properties outside of the considered scope that are affected by the scheme; however, no significant effects are anticipated.

04

A 3.5 The property uses have been ascertained by reference to a Valuation Office Agency search carried out on 27.09.2023 and based upon external observations from a site visit carried out on 27.10.2023.

05

A 3.6 GIA have obtained full or partial floor plans for the following properties:

- 41 London Street
- 43 London Street
- 72A London Street
- 74-76 London Street

A 3.7 These layouts have been incorporated into our 3D computer model. It is reasonable to assume that these layouts have been implemented, however, GIA would require access to confirm this.

A 3.8 Where layouts are unknown, the No Sky Line methodology has not been applied and instead the Vertical Sky Component methodology is relied upon. This is due to the fact that basing NSL calculations on assumed layouts could offer misleading figures. This follows the commentary within the BRE Guidelines 2022 which states:

*"In most cases the position of the no sky line has to be found from plans. The calculation can only be carried out where room layouts are known. Using estimated room layouts is likely to give inaccurate results and is not recommended. However where plans are available, for example on the local authority's online planning portal, the calculation should be carried out."*⁴

06

A 3.9 Floor levels have been assumed for adjoining properties as access has not been obtained. This dictates the level of the working plane which is the point at which the No Sky Line assessments are carried out (if relevant).

09

A 3.10 GIA have discounted rooms that appear to be or are confirmed to be bathrooms, hallways, circulation space etc. These rooms are not considered to be habitable and thus do not require assessment in accordance with the BRE Guidelines.

4 Littlefair, P. (2022). Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice. Hertfordshire: HIS BRE Press, p 15 para 2.2.6

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APPENDIX 04

RESULTS

EXISTING v PROPOSED (RESULTS)

Floor	Room	Property Type	Room Use	Window	VSC (Window)			VSC (Room)			NSL			APSH (Room)				
					EX %	PR %	LOSS %	LOSS %	EX %	PR %	LOSS %	ANNUAL	WINTER	EX	PR	ANNUAL	WINTER	
16 DEANSGATE ROAD																		
F00	R1	RESIDENTIAL	UNKNOWN		W1/F00	1.4	10	0.4	286	N.A	N.A	N.A	N.A	N.A	N.A			
	F01	RESIDENTIAL	UNKNOWN		W1/F01	32.1	30.9	1.2	3.7	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
	R2	RESIDENTIAL	UNKNOWN		W2/F01	32.2	30.8	1.4	4.3	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
					W3/F01	32.6	26.3	6.3	19.3									
	R3	RESIDENTIAL	UNKNOWN		W4/F01	32.7	25.6	7.1	21.7	N.A	N.A	N.A	N.A	N.A	N.A			
F02					W5/F01	32.4	24.8	7.6	23.5									
	R1	RESIDENTIAL	UNKNOWN		W1/F02	23.4	22.6	0.8	3.4	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
	R2	RESIDENTIAL	UNKNOWN		W2/F02	23.8	22.7	1.1	4.6	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
					W3/F02	24.5	18.8	5.7	23.3									
	R3	RESIDENTIAL	UNKNOWN		W4/F02	27.3	20.9	6.4	23.4	N.A	N.A	N.A	N.A	N.A	N.A			
					W5/F02	27.2	20.3	6.9	25.4									
SAXON COURT																		
F00	R1**	STUDENT ACCOMMODATION	STUDENT ACCOMMODATION		W1/F00	33.9	21.2	12.7	37.5	49.1	36.6	12.5	25.5	100.0	95.2	4.8		
					W2/F00	33.5	20.9	12.6	37.6									
					W3/F00*	66.8	54.4	12.4	18.6									
					W4/F00*	66.6	54.3	12.3	18.5									
					W5/F00	33.8	21.1	12.7	37.6									
					W6/F00*	66.6	54.2	12.4	18.6									
					W7/F00*	66.6	54.2	12.4	18.6									
	R2	STUDENT ACCOMMODATION	STUDENT ACCOMMODATION		W8/F00	33.7	21.0	12.7	37.7	46.8	35.3	11.5	24.6	100.0	99.6	0.4		
					W9/F00*	66.4	54.0	12.4	18.7									
					W10/F00	33.4	20.6	12.8	38.3									
					W11/F00*	66.1	53.6	12.5	18.9									
					W12/F00*	65.7	53.2	12.5	19.0									
					W13/F00	33.6	20.7	12.9	38.4									
					W14/F00*	65.0	52.6	12.4	19.1									
F01					W15/F00*	63.4	51.0	12.4	19.6									
					W16/F00*	42.6	34.3	8.3	19.5									
					W17/F00*	36.8	28.9	7.9	21.5									
					W18/F00*	29.7	22.3	7.4	24.9									
					W19/F00*	22.5	16.8	5.7	25.3									
	R1	STUDENT ACCOMMODATION	STUDENT ACCOMMODATION		W1/F01	33.5	24.1	9.4	28.1	27.7	20.2	7.5	27.1	99.1	72.3	27.1		
					W2/F01	32.6	25.7	6.9	21.2									
					W3/F01	21.5	14.4	7.1	33.0									
					W4/F01	24.0	16.7	7.3	30.4									
	R3	STUDENT ACCOMMODATION	STUDENT ACCOMMODATION		W6/F01	20.9	14.1	6.8	32.5	23.3	16.5	6.8	29.2	99.7	66.9	32.9		
					W7/F01	26.4	19.6	6.8	25.8									
					W32/F01	21.5	14.7	6.8	31.6									
	R4	STUDENT ACCOMMODATION	STUDENT ACCOMMODATION		W8/F01	31.7	22.4	9.3	29.3	27.4	19.8	7.6	27.7	99.3	80.2	19.2		
					W9/F01	31.7	22.3	9.4	29.7									
				W10/F01	27.2	19.7	7.5	27.6										
				W11/F01	24.0	17.7	6.3	26.3										
R5	STUDENT ACCOMMODATION	STUDENT ACCOMMODATION		W12/F01	30.5	21.3	9.2	30.2	24.4	17	7.4	30.3	99.1	84.5	14.8			
				W13/F01	28.3	20.6	7.7	27.2										
				W14/F01	15.5	10.0	5.5	35.5										

* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm

Floor	Room	Property Type	Room Use	Window	VSC (Window)			VSC (Room)			NSL			APSH (Room)					
					EX %	PR %	LOSS %	EX %	LOSS %	PR %	LOSS %	EX %	PR %	ANNUAL	WINTER	ANNUAL	WINTER		
Saxon Court (Continued)																			
F01	R5	Student Accommodation	Student Accommodation	W15/F01	30.5	21.3	9.2	30.2	24.4	17	7.4	30.3	99.1	84.5	14.8				
	R6	Student Accommodation	Educational	W16/F01	21.4	13.6	7.8	36.4	21.4	13.6	7.8	36.4	96.8	50.4	48				
	R1	Student Accommodation	Student Accommodation	W1/F02	34.9	27.1	7.8	22.3	28.7	22.6	6.1	21.3	99.5	85.6	13.9				
				W2/F02	33.4	27.7	5.7	17.1											
				W3/F02	22.9	16.9	6.0	26.2											
				W4/F02	25.3	19.3	6.0	23.7											
R3		Student Accommodation	Student Accommodation	W8/F02	18.8	13.2	5.6	29.8	19.1	13.4	5.7	29.8	99.5	71.4	28.2				
				W9/F02	22.0	16.4	5.6	25.5											
				W37/F02	12.7	6.9	5.8	45.7											
	R4	Student Accommodation	Student Accommodation	W10/F02	17.8	10.0	7.8	43.8	20.7	14.4	6.3	30.4	99.2	81.9	17.4				
				W11/F02	17.9	10.2	7.7	43.0											
				W12/F02	22.8	16.6	6.2	27.2											
				W13/F02	21.0	15.7	5.3	25.2											
R5		Student Accommodation	Student Accommodation	W14/F02	17.6	10.0	7.6	43.2	18.6	12.5	6.1	32.8	98.9	86.1	12.9				
				W15/F02	23.4	17.0	6.4	27.4											
				W16/F02	14.7	10.1	4.6	31.3											
				W17/F02	17.4	9.9	7.5	43.1											
	R6	Student Accommodation	Student Accommodation	W18/F02	12.7	6.2	6.5	51.2	12.7	6.2	6.5	51.2	96.7	49.1	49.2				
Townsend House																			
F00	R1	Residential	Unknown	W1/F00	24.3	21.1	3.2	13.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	R2	Residential	Unknown	W2/F00	20.3	17.8	2.5	12.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
	R3**	Residential	Unknown	W3/F00	28.3	24.1	4.2	14.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	R4	Residential	Unknown	W4/F00	0.0	0.0	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
				W5/F00	0.1	0.0	0.1	100.0											
R6		Residential	Unknown	W7/F00	23.0	17.0	6.0	26.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
				W8/F00	27.9	20.1	7.8	28.0											
R7		Residential	Unknown	W9/F00	32.9	22.6	10.3	31.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
				W10/F00	33.5	22.9	10.6	31.6											
R8		Residential	Unknown	W11/F00	34.4	23.6	10.8	31.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
R9		Residential	Unknown	W12/F00	33.3	30.0	3.3	9.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
				W13/F00	33.1	30.0	3.1	9.4											
R10		Residential	Unknown	W14/F00	32.2	29.4	2.8	8.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
				W15/F00	30.6	28.0	2.6	8.5											
R11		Residential	Unknown	W16/F00	32.9	30.7	2.2	6.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
				W17/F00	32.8	30.7	2.1	6.4											
F01	R1	Residential	Unknown	W1/F01	25.4	22.8	2.6	10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
R2		Residential	Unknown	W2/F01	21.5	18.7	2.8	13.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
R3		Residential	Unknown	W3/F01	34.8	27.9	6.9	19.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
				W4/F01	34.0	27.5	6.5	19.1											
R4		Residential	Unknown	W5/F01	35.6	28.0	7.6	21.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
R5		Residential	Unknown	W6/F01	34.3	26.1	8.2	23.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
				W7/F01	34.7	25.9	8.8	25.4											
R6		Residential	Unknown	W8/F01	35.3	26.0	9.3	26.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
				W9/F01	35.3	26.0	9.3	26.3											
R7		Residential	Unknown	W10/F01	35.4	25.9	9.5	26.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A				

* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm

Floor	Room	Property Type	Room Use	Window	VSC (Window)			VSC (Room)			NSL			APSH (Room)					
					EX %	PR %	LOSS %	EX %	PR %	LOSS %	EX %	LOSS %	PR %	EX	WINTER ANNUAL	PR	LOSS %	ANNUAL	WINTER
Townsend House (Continued)																			
F01	R8	Residential	UNKNOWN	W11/F01	34.7	31.7	3.0	8.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
				W12/F01	34.5	31.7	2.8	8.1											
				W13/F01	33.5	31.1	2.4	7.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
				W14/F01	31.8	29.4	2.4	7.5											
		Residential	UNKNOWN	W15/F01	34.4	32.3	2.1	6.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.		
				W16/F01	34.3	32.3	2.0	5.8											
				W17/F02	27.0	25.1	1.9	7.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
				W2/F02	21.1	19.1	2.0	9.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
R3	Residential	UNKNOWN	W3/F02	34.7	28.4	6.3	18.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.		
	R4	Residential	UNKNOWN	W4/F02	34.6	28.1	6.5	18.8											
				W5/F02	34.5	27.2	7.3	21.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W6/F02	34.5	27.1	7.4	21.4											
				W7/F02	34.5	26.7	7.8	22.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	R5	Residential	UNKNOWN	W8/F02	34.5	26.6	7.9	22.9											
				W9/F02	34.1	26.1	8.0	23.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W10/F02	32.7	30.1	2.6	8.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W11/F02	32.6	30.2	2.4	7.4											
	R8	Residential	UNKNOWN	W12/F02	32.2	30.1	2.1	6.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
				W13/F02	30.9	28.9	2.0	6.5											
				W14/F02	32.7	30.9	1.8	5.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W15/F02	32.4	30.8	1.6	4.9											
Elizabeth Edgar Cottages																			
F00	R1	Residential	UNKNOWN	W1/F00	22.1	21.0	1.1	5.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R2	Residential	UNKNOWN	W2/F00	11.4	9.9	1.5	13.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
				W3/F00	23.7	20.9	2.8	11.8											
4 Church Street																			
F00	R1	Residential	UNKNOWN	W1/F00	23.8	23.8	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R2	Residential	UNKNOWN	W2/F00	28.6	28.6	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R3	Residential	UNKNOWN	W3/F00	18.2	18.2	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R4	Residential	UNKNOWN	W4/F00	21.3	21.3	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
F01	R1	Residential	UNKNOWN	W1/F01	31.2	30.9	0.3	1.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R2	Residential	UNKNOWN	W2/F01	30.2	30.2	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
6 Church Street																			
F00	R1	Residential	UNKNOWN	W1/F00	22.0	21.9	0.1	0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
		Residential	UNKNOWN	W2/F00	19.2	19.1	0.1	0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R3	Residential	UNKNOWN	W3/F00	18.8	18.2	0.6	3.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R4	Residential	UNKNOWN	W4/F00	29.2	29.1	0.1	0.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
F01	R1	Residential	UNKNOWN	W1/F01	31.5	30.9	0.6	1.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R2	Residential	UNKNOWN	W2/F01	30.5	29.8	0.7	2.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
Norfolk House																			
F01	R1	Residential	UNKNOWN	W1/F01	29.9	29.3	0.6	2.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R2	Residential	UNKNOWN	W2/F01	33.1	32.4	0.7	2.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
	R1	Residential	UNKNOWN	W1/F02	36.1	35.4	0.7	1.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	

* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm



Floor	Room	Property Type	Room Use	Window	VSC (Window)			VSC (Room)			NSL			AFSH (Room)						
					EX %	PR %	LOSS %	EX %	PR %	LOSS %	EX %	PR %	LOSS %	ANNUAL	WINTER	ANNUAL	WINTER			
6B Church Street																				
F01	R1	Residential	UNKNOWN	W1/F01	335	32.6	0.9	27	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R2	Residential	UNKNOWN	W2/F01	329	32.0	0.9	27	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R3	Residential	UNKNOWN	W3/F01	317	30.7	1.0	3.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R4	Residential	UNKNOWN	W4/F01	223	21.8	0.5	2.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R5	Residential	UNKNOWN	W5/F01	268	26.0	0.8	3.0												
F02	R1	Residential	UNKNOWN	W4/F02*	703	70.3	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.				
		Residential	UNKNOWN	W6/F01	26.6	26.0	0.6	2.3												
		Residential	UNKNOWN	W1/F02	358	34.8	1.0	2.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
		Residential	UNKNOWN	W2/F02	35.6	34.7	0.9	2.5												
		Residential	UNKNOWN	W3/F02	35.1	34.1	1.0	2.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
6C Church Street																				
F00	R1	Residential	UNKNOWN	W1/F00	14.7	14.7	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R2	Residential	UNKNOWN	W2/F00	18.2	18.1	0.1	0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R1	Residential	UNKNOWN	W1/F01	22.5	22.3	0.2	0.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R1	Residential	UNKNOWN	W1/F02*	78.1	78.1	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.				
	R2	Residential	UNKNOWN	W2/F02	28.5	28.2	0.3	1.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
1-8 Folk House																				
F00	R1	Residential	UNKNOWN	W1/F00*	60.5	60.2	0.3	0.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
				W1/F01	30.4	29.9	0.5	1.6												
				W2/F00*	61.8	61.5	0.3	0.5												
				W2/F01	30.5	30.0	0.5	1.6												
	R2	Residential	UNKNOWN	W3/F00*	51.3	51.0	0.3	0.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
				W3/F01	18.4	18.4	0.0	0.0												
				W4/F00*	57.1	56.9	0.2	0.4												
				W4/F01	26.1	25.6	0.5	1.9												
				W5/F01	29.4	28.9	0.5	1.7												
	R1	Residential	UNKNOWN	W1/F01 (dup)	30.4	29.9	0.5	1.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
				W2/F01 (dup)	30.5	30.0	0.5	1.6												
	R2	Residential	UNKNOWN	W3/F01 (dup)	18.4	18.4	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R3	Residential	UNKNOWN	W4/F01 (dup)	26.1	25.6	0.5	1.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
				W5/F01 (dup)	29.4	28.9	0.5	1.7												
	F02	Residential	UNKNOWN	W1/F02	35.2	34.6	0.6	1.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
				W2/F02	35.2	34.6	0.6	1.7												
	R2	Residential	UNKNOWN	W3/F02	20.9	20.9	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R3	Residential	UNKNOWN	W4/F02	29.9	29.3	0.6	2.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
				W5/F02	33.9	33.2	0.7	2.1												
	F03	Residential	UNKNOWN	W1/F03	38.0	37.5	0.5	1.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
				W2/F03	38.0	37.5	0.5	1.3												
	R2	Residential	UNKNOWN	W3/F03	27.0	27.0	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
	R3	Residential	UNKNOWN	W4/F03	35.7	35.2	0.5	1.4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
				W5/F03	37.6	37.1	0.5	1.3												
	2 Church Street																			
F00	R1	Religious	Religious	W1/F00*	92.8	92.8	0.0	0.0	92.8	92.7	0.1	0.1	90.0	90.0	0	86.0	22.0	86.0	0.0	0.0
				W2/F00*	93.4	93.4	0.0	0.0												
				W3/F00*	91.4	91.4	0.0	0.0												

* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm

Floor	Room	Property Type	Room Use	Window	VSC (Window)				VSC (Room)				NSL				APSH (Room)			
					EX %	PR %	LOSS %	LOSS %	EX %	PR %	LOSS %	LOSS %	EX %	PR %	LOSS %	ANNUAL	WINTER	ANNUAL	WINTER	
2 Church Street (Continued)																				
F00	R1	Religious	Religious	W14/F00*	93.5	93.5	0.0	0.0	92.8	92.7	0.1	0.1	90.0	90.0	0	86.0	22.0	86.0	22.0	0.0
	R2	Religious		W4/F00	34.7	32.5	2.2	6.3	33.5	32.3	1.2	3.6	100.0	100.0	0	89.0	25.0	88.0	25.0	1.1
				W5/F00	34.8	32.6	2.2	6.3												
				W12/F00	32.2	32.2	0.0	0.0												
				W13/F00	31.7	31.7	0.0	0.0												
	R3	Religious	Religious	W6/F00	34.8	32.6	2.2	6.3	33.6	32.8	0.8	2.4	100.0	100.0	0	91.0	25.0	91.0	25.0	0.0
				W7/F00	34.6	32.6	2.0	5.8												
				W8/F00	33.0	32.9	0.1	0.3												
				W9/F00	33.3	33.2	0.1	0.3												
				W10/F00	32.8	32.8	0.0	0.0												
				W11/F00	32.6	32.6	0.0	0.0												
74-76 London Street																				
F00	R1	Residential	Bedroom	W1/F00	20.4	20.4	0.0	0.0	20.4	20.4	0	0	78.7	78.7	0	37.0	11.0	37.0	11.0	0.0
	R2**	Residential		W2/F00	26.7	26.7	0.0	0.0	26.7	26.7	0	0	89.6	89.6	0	44.0	13.0	44.0	13.0	0.0
	R4	Residential		W4/F00	23.2	23.2	0.0	0.0	23.2	23.2	0	0	91.9	91.9	0	28.0	1.0	28.0	1.0	0.0
	R5	Residential		W5/F00	23.7	23.7	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W6/F00	24.6	24.6	0.0	0.0												
			W7/F00	24.5	24.5	0.0	0.0													
	R6	Residential	Unknown	W8/F00	24.4	24.4	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.					
				W9/F00	24.4	24.4	0.0	0.0												
	R7	Residential		W10/F00	24.8	24.8	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.					
				W11/F00	25.0	24.9	0.1	0.4												
	R8	Residential		W12/F00	25.7	25.4	0.3	1.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
			W13/F00	25.9	25.6	0.3	1.2													
			W14/F00	30.7	30.4	0.3	1.0													
F01	R1	Residential	Bedroom	W1/F01	13.6	13.6	0.0	0.0	13.6	13.6	0	0	66.8	66.8	0	37.0	16.0	37.0	16.0	0.0
	R2	Residential		W2/F01	26.1	26.1	0.0	0.0	36.7	36.7	0	0	95.8	95.8	0	53.0	16.0	53.0	16.0	0.0
			Unknown	W11/F01*	42.9	42.9	0.0	0.0												
				W12/F01*	40.7	40.7	0.0	0.0												
				W13/F01*	51.0	51.0	0.0	0.0												
R3	Residential	Bedroom		W3/F01	32.3	32.2	0.1	0.3	32.3	32.2	0.1	0.3	95.9	95.9	0	49.0	16.0	49.0	16.0	0.0
R5	Residential	LKD		W5/F01	31.0	31.0	0.0	0.0	31	31	0	0	97.4	97.4	0	49.0	13.0	49.0	13.0	0.0
R6	Residential	Unknown	W6/F01	29.2	29.2	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
R7	Residential		W7/F01	30.5	30.5	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.						
R8	Residential		Unknown	W8/F01	30.5	30.4	0.1	0.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.					
R9	Residential		Unknown	W9/F01	31.1	30.8	0.3	1.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W10/F01	34.0	33.7	0.3	0.9												
F02	R1	Residential	Bedroom	W1/F02	33.4	33.0	0.4	1.2	33.4	33	0.4	1.2	89.6	89.6	0.1	49.0	16.0	49.0	16.0	0.0
	R3	Residential		W3/F02	33.2	32.8	0.4	1.2	33.2	32.8	0.4	1.2	98.3	98.3	0	48.0	15.0	48.0	15.0	0.0
	R4	Residential	Bedroom	W4/F02	32.9	32.5	0.4	1.2	32.9	32.5	0.4	1.2	95.7	95.7	0	48.0	15.0	48.0	15.0	0.0
	R5	Residential	Unknown	W5/F02*	67.6	67.5	0.1	0.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.					
	R6	Residential	Unknown	W6/F02	35.5	35.2	0.3	0.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.					
	R7	Residential	Unknown	W7/F02	35.4	35.2	0.2	0.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.					
	R8	Residential	Unknown	W8/F02	35.7	35.3	0.4	1.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
					W9/F02	36.4	36.1	0.3	0.8											

* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm

Floor		Room	Property Type	Room Use	Window	VSC (Window)			NSL			APSH (Room)									
						EX %	PR %	LOSS %	EX %	PR %	LOSS %	EX	PR	LOSS %							
												ANNUAL	WINTER	ANNUAL							
43 LONDON STREET																					
F01	R1	RESIDENTIAL	BEDROOM		W1/F01	33.6	33.1	0.5	1.5	33.6	33.1	0.5	1.5	97.8	96.1	1.7	51.0	16.0	50.0	15.0	6.2
F02	R1	RESIDENTIAL	BEDROOM		W1/F02	35.6	34.8	0.8	2.2	35.6	34.8	0.8	2.2	98.3	98.0	0.2	53.0	18.0	52.0	17.0	19
F03	R1	RESIDENTIAL	LIVING ROOM		W1/F03	29.1	28.3	0.8	2.7	29.1	28.3	0.8	2.7	100.0	100.0	0	45.0	9.0	44.0	8.0	2.2
F04	R1	RESIDENTIAL	BEDROOM		W1/F04	38.3	38.3	0.0	0.0	36	35.7	0.3	0.8	100.0	100.0	0	94.0	25.0	93.0	24.0	1.1
					W2/F04	34.8	34.2	0.6	1.7											4.0	
45 LONDON STREET																					
F01	R1	RESIDENTIAL	UNKNOWN		W1/F01	33.8	33.2	0.6	1.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F02	R1	RESIDENTIAL	UNKNOWN		W1/F02	35.7	35.0	0.7	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
46 LONDON STREET																					
F01	R1	RESIDENTIAL	UNKNOWN		W1/F01	33.8	27.4	6.4	18.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN		W2/F01	32.9	26.7	6.2	18.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					W3/F01	25.5	25.4	0.1	0.4												
	R3	RESIDENTIAL	UNKNOWN		W4/F01	25.9	25.8	0.1	0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
	R5	RESIDENTIAL	UNKNOWN		W6/F01*	80.1	79.0	1.1	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F02	R2	RESIDENTIAL	UNKNOWN		W2/F02	35.8	33.0	2.8	7.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
48 LONDON STREET																					
F02	R1	RESIDENTIAL	UNKNOWN		W2/F02	25.1	23.1	2.0	8.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN		W1/F02	31.4	28.9	2.5	8.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
44 LONDON STREET																					
F01	R1	RESIDENTIAL	UNKNOWN		W1/F01	28.0	26.1	1.9	6.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					W2/F01	28.5	27.4	1.1	3.9												
	R2	RESIDENTIAL	UNKNOWN		W5/F01	25.2	25.2	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
F02	R1	RESIDENTIAL	UNKNOWN		W2/F02	34.5	32.5	2.0	5.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	RESIDENTIAL	UNKNOWN		W1/F02	35.7	33.3	2.4	6.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33 LONDON STREET																					
F00	R1**	HOTEL	UNKNOWN		W1/F00	26.1	25.7	0.4	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					W2/F00	30.9	30.5	0.4	1.3												
					W3/F00	28.5	28.2	0.3	1.1												
	R3	HOTEL	UNKNOWN		W5/F00	28.2	28.0	0.2	0.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					W6/F00	30.5	30.4	0.1	0.3												
					W7/F00	25.3	25.2	0.1	0.4												
F01	R1**	HOTEL	UNKNOWN		W1/F01	32.3	31.8	0.5	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2**	HOTEL	UNKNOWN		W2/F01	32.9	32.4	0.5	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3**	HOTEL	UNKNOWN		W3/F01	32.3	31.8	0.5	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F02	R1	HOTEL	UNKNOWN		W1/F02	29.7	29.1	0.6	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R2	HOTEL	UNKNOWN		W2/F02	29.9	29.3	0.6	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R3	HOTEL	UNKNOWN		W3/F02	29.9	29.2	0.7	2.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35-39 LONDON STREET																					
F03	R1	RESIDENTIAL	UNKNOWN		W1/F03	36.4	35.8	0.6	1.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					W2/F03	36.6	36.0	0.6	1.6												
					W3/F03	36.6	36.0	0.6	1.6												
	R2	RESIDENTIAL	UNKNOWN		W4/F03	36.5	36.2	0.3	0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					W5/F03	37.4	37.1	0.3	0.8												
F04	R1	RESIDENTIAL	UNKNOWN		W1/F04	37.3	36.8	0.5	1.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	VSC (WINDOW)			VSC (ROOM)			NSL		APSH (ROOM)							
					EX %	PR %	LOSS %	EX %	PR %	LOSS %	EX %	PR %	LOSS %	ANNUAL	WINTER	ANNUAL	WINTER			
35-39 LONDON STREET (CONTINUED)																				
F04	R2	RESIDENTIAL	UNKNOWN	W2/F04	376	371	0.5	1.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.		
				W3/F04		389	386	0.3	0.8											
41 LONDON STREET																				
F00	R1**	RESIDENTIAL	LKD	W1/F00	29.3	29.2	0.1	0.3	29.7	29.6	0.1	0.3	99.4	99.4	0	39.0	10.0	39.0	0.0	0.0
				W2/F00		30.0	30.0	0.0	0.0											
F01	R1	RESIDENTIAL	LKD	W1/F01	34.2	33.5	0.7	2.0	34.1	33.4	0.7	2.1	93.6	93.6	0	46.0	12.0	46.0	0.0	0.0
				W2/F01		34.0	33.3	0.7	2.1											
F02	R1	RESIDENTIAL	BEDROOM	W3/F01	33.9	33.2	0.7	2.1	33.9	33.2	0.7	2.1	98.4	98.4	0	46.0	12.0	46.0	0.0	0.0
				W1/F02		35.1	34.3	0.8	2.3	35.1	34.2	0.9	2.6	91.4	91.4	0	47.0	15.0	46.0	14.0
	R2	RESIDENTIAL	BEDROOM	W2/F02		35.0	34.2	0.8	2.3											
				W3/F02		35.0	34.1	0.9	2.6	35	34.1	0.9	2.6	98.3	98.3	0	47.0	15.0	46.0	14.0
60 LONDON STREET																				
F01	R1	RESIDENTIAL	UNKNOWN	W1/F01	34.0	30.3	3.7	10.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W2/F01		32.9	29.3	3.6	10.9											
	R2	RESIDENTIAL	UNKNOWN	W3/F01		28.0	24.6	3.4	12.1											
				W4/F01		30.6	27.1	3.5	11.4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
62-66 LONDON STREET																				
F00	R1	RESIDENTIAL	UNKNOWN	W1/F00	25.4	25.4	0.0	0.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W2/F00		32.1	28.7	3.4	10.6											
	R2	RESIDENTIAL	UNKNOWN	W3/F00		32.2	29.1	3.1	9.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
				W4/F00		30.3	27.4	2.9	9.6											
	R3	RESIDENTIAL	UNKNOWN	W5/F00		28.8	26.4	2.4	8.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W6/F00		27.8	25.9	1.9	6.8											
	R4	RESIDENTIAL	UNKNOWN	W7/F00		27.1	25.7	1.4	5.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W8/F00		25.7	24.7	1.0	3.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	R1	RESIDENTIAL	UNKNOWN	W1/F01		35.5	32.3	3.2	9.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W2/F01		35.1	32.1	3.0	8.5											
	R2	RESIDENTIAL	UNKNOWN	W3/F01		34.6	31.9	2.7	7.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W4/F01		34.1	31.6	2.5	7.3											
	R3	RESIDENTIAL	UNKNOWN	W5/F01		33.2	31.2	2.0	6.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W6/F01		32.6	31.0	1.6	4.9											
	R4	RESIDENTIAL	UNKNOWN	W7/F01		32.0	30.7	1.3	4.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W8/F01		30.8	29.8	1.0	3.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	R1	RESIDENTIAL	UNKNOWN	W1/F02		37.2	34.9	2.3	6.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W2/F02		37.2	35.0	2.2	5.9											
	R2	RESIDENTIAL	UNKNOWN	W3/F02		37.1	35.0	2.1	5.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W4/F02		37.0	35.0	2.0	5.4											
	R3	RESIDENTIAL	UNKNOWN	W5/F02		36.8	35.0	1.8	4.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W6/F02		36.7	35.0	1.7	4.6											
	R4	RESIDENTIAL	UNKNOWN	W7/F02		36.2	34.8	1.4	3.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W8/F02		34.9	33.6	1.3	3.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	R1	RESIDENTIAL	UNKNOWN	W1/F03		38.2	36.5	1.7	4.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
				W2/F03		38.2	36.6	1.6	4.2											
				W9/F03*		87.9	87.6	0.3	0.3											
				W10/F03*		86.3	85.5	0.8	0.9											

FORMER JOHN LEWIS DEPOT, LETECOME STREET, READING (20000)

DAYLIGHT DEPARTMENT: IMPACT ON NEIGHBOURING PROPERTIES REPORT

* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm

Floor		Room	Property Type	Room Use	Window	VSC (Window)				NSL				APSH (Room)			
						Ex %	PR %	Loss %	Loss %	Ex %	PR %	Loss %	Loss %	Ex %	PR %	Loss %	
62-66 LONDON STREET (CONTINUED)																	
F03	R1	RESIDENTIAL		UNKNOWN		W1/F03*	85.3	85.3	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	
						W2/F03*	85.6	85.6	0.0	0.0							
	R2	RESIDENTIAL		UNKNOWN		W3/F03	38.2	36.7	1.5	3.9	N/A	N/A	N/A	N/A	N/A	N/A	
						W4/F03	38.2	36.8	1.4	3.7							
R3		RESIDENTIAL		UNKNOWN		W5/F03	38.2	36.8	1.4	3.7	N/A	N/A	N/A	N/A	N/A	N/A	
						W6/F03	38.2	36.9	1.3	3.4							
R4		RESIDENTIAL		UNKNOWN		W7/F03	38.1	36.9	1.2	3.1	N/A	N/A	N/A	N/A	N/A	N/A	
R5		RESIDENTIAL		UNKNOWN		W8/F03	37.8	36.7	1.1	2.9	N/A	N/A	N/A	N/A	N/A	N/A	
R6		RESIDENTIAL		UNKNOWN		W13/F03*	87.3	87.3	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	
						W14/F03*	64.0	64.0	0.0	0.0							
						W15/F03*	84.8	84.2	0.6	0.7							
						W16/F03*	87.9	87.7	0.2	0.2							
68 LONDON STREET																	
F00	R1	RESIDENTIAL		UNKNOWN		W1/F00	24.9	24.9	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	
F01	R1	RESIDENTIAL		UNKNOWN		W1/F01	31.3	31.0	0.3	1.0	N/A	N/A	N/A	N/A	N/A	N/A	
	R2	RESIDENTIAL		UNKNOWN		W2/F01	29.9	29.5	0.4	1.3	N/A	N/A	N/A	N/A	N/A	N/A	
F02	R1	RESIDENTIAL		UNKNOWN		W1/F02	35.9	35.0	0.9	2.5	N/A	N/A	N/A	N/A	N/A	N/A	
	R2	RESIDENTIAL		UNKNOWN		W2/F02	35.2	34.3	0.9	2.6	N/A	N/A	N/A	N/A	N/A	N/A	
F03	R1	RESIDENTIAL		UNKNOWN		W1/F03	34.8	34.1	0.7	2.0	N/A	N/A	N/A	N/A	N/A	N/A	
	R2	RESIDENTIAL		UNKNOWN		W2/F03	30.5	29.7	0.8	2.6	N/A	N/A	N/A	N/A	N/A	N/A	
						W2/F04*	83.8	83.4	0.4	0.5							
F04	R1	RESIDENTIAL		UNKNOWN		W1/F04	38.6	38.0	0.6	1.6	N/A	N/A	N/A	N/A	N/A	N/A	
70 LONDON STREET																	
F00	R1	RESIDENTIAL		UNKNOWN		W1/F00	13.4	13.4	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	
F01	R1	RESIDENTIAL		UNKNOWN		W1/F01	26.9	26.2	0.7	2.6	N/A	N/A	N/A	N/A	N/A	N/A	
	R2	RESIDENTIAL		UNKNOWN		W2/F01	21.1	20.4	0.7	3.3	N/A	N/A	N/A	N/A	N/A	N/A	
F02	R1	RESIDENTIAL		UNKNOWN		W1/F02	33.6	32.9	0.7	2.1	N/A	N/A	N/A	N/A	N/A	N/A	
	R2	RESIDENTIAL		UNKNOWN		W2/F02	26.8	26.1	0.7	2.6	N/A	N/A	N/A	N/A	N/A	N/A	
F03	R1	RESIDENTIAL		UNKNOWN		W1/F03	37.9	37.3	0.6	1.6	N/A	N/A	N/A	N/A	N/A	N/A	
	R2	RESIDENTIAL		UNKNOWN		W2/F03	33.0	32.5	0.5	1.5	N/A	N/A	N/A	N/A	N/A	N/A	
	R3	RESIDENTIAL		UNKNOWN		W3/F03*	87.0	86.8	0.2	0.2	N/A	N/A	N/A	N/A	N/A	N/A	
72A LONDON STREET																	
F00	R1	RESIDENTIAL		LKD		W1/F00	32.5	31.7	0.8	2.5	30.9	30.4	0.5	16	98.6	98.6	
						W2/F00	32.3	31.6	0.7	2.2							
						W3/F00	28.2	28.2	0.0	0.0							
	F01	R1	RESIDENTIAL	LKD		W1/F01	36.0	35.3	0.7	1.9	34.6	34.2	0.4	12	98.6	98.6	
						W2/F01	35.7	35.1	0.6	1.7							
						W3/F01	32.4	32.4	0.0	0.0							
F02	R1	RESIDENTIAL		BEDROOM		W1/F02	37.5	36.9	0.6	1.6	37.5	36.9	0.6	16	95.8	95.8	
	R2	RESIDENTIAL		BEDROOM		W2/F02	37.6	37.1	0.5	1.3	22.4	22.2	0.2	0.9	97.8	97.8	
						W3/F02	13.8	13.8	0.0	0.0							
70A LONDON STREET																	
F00	R1	RESIDENTIAL		UNKNOWN		W1/F00	12.9	12.9	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	
	R2	RESIDENTIAL		UNKNOWN		W2/F00	13.4	13.4	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	

* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm

FLOOR	ROOM	PROPERTY TYPE	ROOM USE	WINDOW	VSC (WINDOW)			VSC (ROOM)			NSL		APSH (ROOM)					
					EX %	PR %		LOSS %	EX %	PR %		LOSS %	EX %	PR %	ANNUAL	WINTER	ANNUAL	WINTER
70A LONDON STREET (CONTINUED)																		
F00	R2	RESIDENTIAL	UNKNOWN	W3/F00	191		191	0.0	0.0	N/A	N/A	N/A	N/A	N/A				
	R3	RESIDENTIAL	UNKNOWN	W4/F00	284		276	0.8	2.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	R4	RESIDENTIAL	UNKNOWN	W5/F00			30.9	30.0	0.9	2.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	F01	R1	RESIDENTIAL	UNKNOWN	W1/F01	183		183	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A		
R2		RESIDENTIAL	UNKNOWN	W2/F01	216		216	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A			
				W3/F01	281		281	0.0	0.0									
R3		RESIDENTIAL	UNKNOWN	W4/F01	213		213	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A			
R4	RESIDENTIAL	UNKNOWN	W5/F01			35.6	34.8	0.8	2.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R5	RESIDENTIAL	UNKNOWN	UNKNOWN	W6/F01			35.6	34.7	0.9	2.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R6	RESIDENTIAL	UNKNOWN	UNKNOWN	W7/F01			27.7	27.7	0.0	0.0	N/A	N/A	N/A	N/A				
R7	RESIDENTIAL	UNKNOWN	UNKNOWN	W8/F01			27.6	27.6	0.0	0.0	N/A	N/A	N/A	N/A				
				W9/F01			27.6	27.6	0.0	0.0								
R8	RESIDENTIAL	UNKNOWN	UNKNOWN	W10/F01			36.7	35.8	0.9	2.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R9	RESIDENTIAL	UNKNOWN	UNKNOWN	W11/F01			36.2	35.6	0.6	1.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F02	R1	RESIDENTIAL	UNKNOWN	W1/F02*			40.0	38.6	1.4	3.5	N/A	N/A	N/A	N/A	N/A			
	R2	RESIDENTIAL	UNKNOWN	W2/F02*			40.1	38.6	1.5	3.7	N/A	N/A	N/A	N/A	N/A			
	R3	RESIDENTIAL	UNKNOWN	W3/F02*			45.6	44.2	1.4	3.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				W4/F02*			97.0	97.0	0.0	0.0								
R4	RESIDENTIAL	UNKNOWN	UNKNOWN	W5/F02*			87.4	87.4	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				W6/F02*			89.0	88.3	0.7	0.8								
				W7/F02*			88.3	87.9	0.4	0.5								
				W8/F02*			87.5	87.5	0.0	0.0								
R5	RESIDENTIAL	UNKNOWN	UNKNOWN	W9/F02*			47.9	46.4	1.5	3.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				W10/F02*			97.3	97.3	0.0	0.0								
R6	RESIDENTIAL	UNKNOWN	UNKNOWN	W13/F02*			97.8	97.8	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R7	RESIDENTIAL	UNKNOWN	UNKNOWN	W11/F02*			52.0	50.3	1.7	3.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				W12/F02*			99.6	99.4	0.2	0.2								
R8	RESIDENTIAL	UNKNOWN	UNKNOWN	W14/F02*			97.4	97.4	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				W16/F02*			50.9	50.2	0.7	1.4								
R9	RESIDENTIAL	UNKNOWN	UNKNOWN	W15/F02*			51.1	50.4	0.7	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

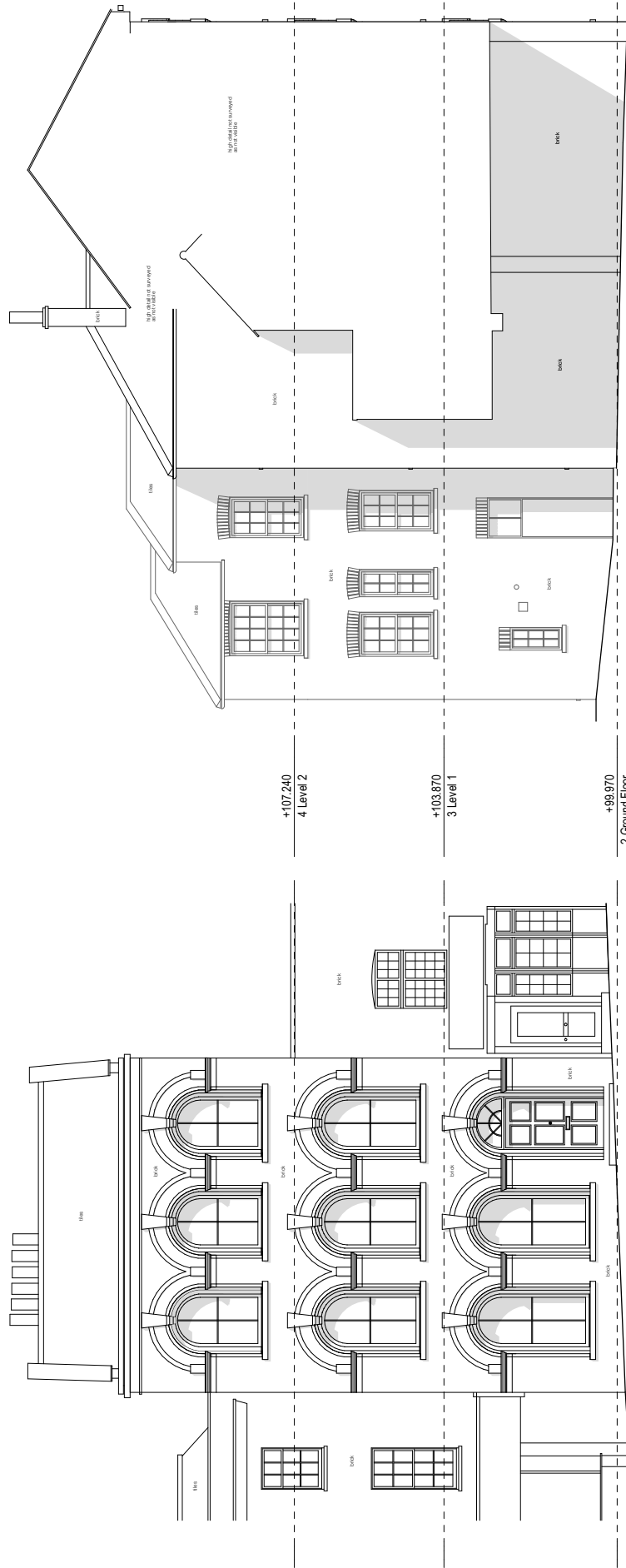
* Inclined Windows, ** Rooms deeper than 5m, *** Kitchens less than 13sqm

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APPENDIX 05

FLOOR PLANS

41 LONDON STREET EXISTING



1 ELEVATION Front - Existing
1:50

2 ELEVATION Side 1 - Existing
1:50

[illegible]fortis^{DESIGN}

3 Hillview, Station Road, Goring
RG8 8HB
+44 77 99538 980
www.fortitdesign.co.uk

Patient

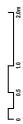
41 LONDON STREET
READING

Drawing Name	Existing Elevations 01
--------------	------------------------

Drawing Status	PLANNING
----------------	----------

Drawing Scale
1:50 @ A1

Revision
P21-0300-ELEV1
00

[illegible]fortis^{DESIGN}

3 Hillview, Station Road, Goring
RG6 5BH
+44 77 99538 990
www.fortitedesign.co.uk

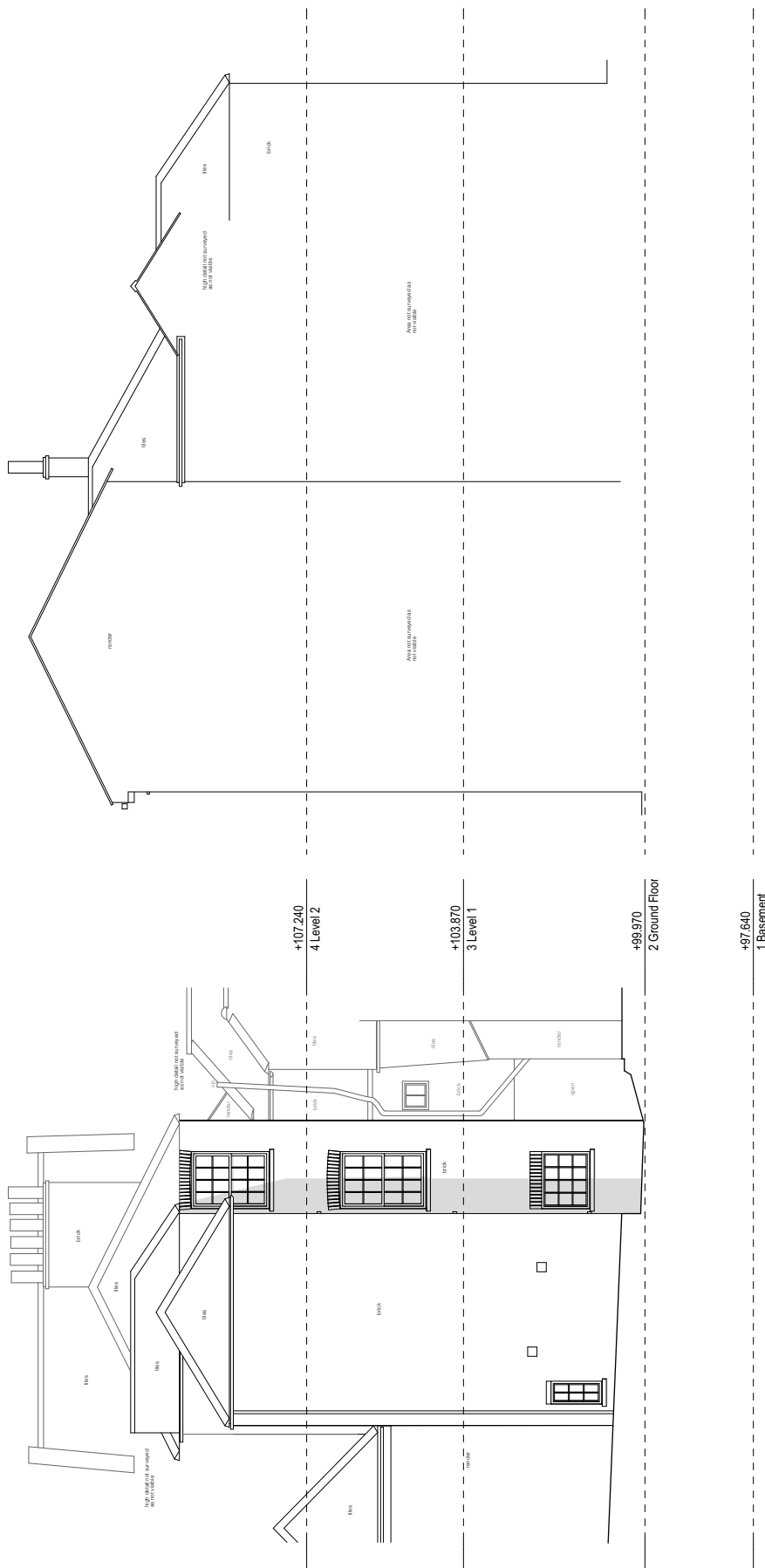
Participant

41 LONDON STREET
READING

Drawing Name
Existing Elevations 02Drawing Status
PLANNING

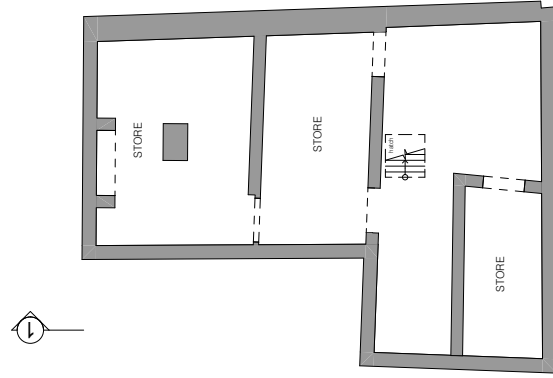
Drawing Scale
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Revision	00
Layout ID	21-0300-ELEV2

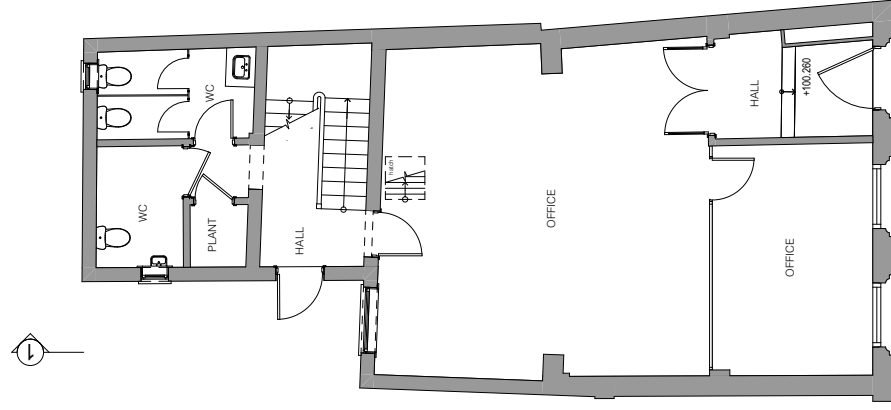


2 ELEVATION Side 2 - Existing
1:50

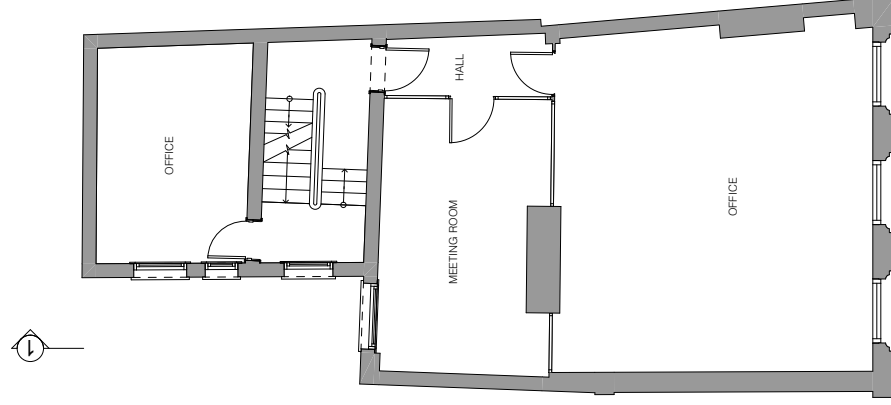
1 ELEVATION Rear - Existing
1:50



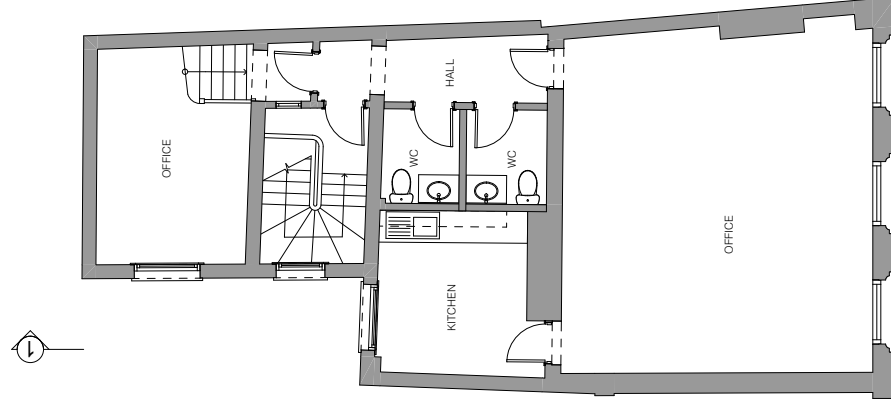
1 PLAN Basement - Existing
1:50



PLAN Ground Floor - Existing



PLAN Level 1 - Existing
1:50



4 PLAN Level 2 - Existing 1:50

[illegible]fortis^{DESIGN}

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Project

41 LONDON STREET
READING

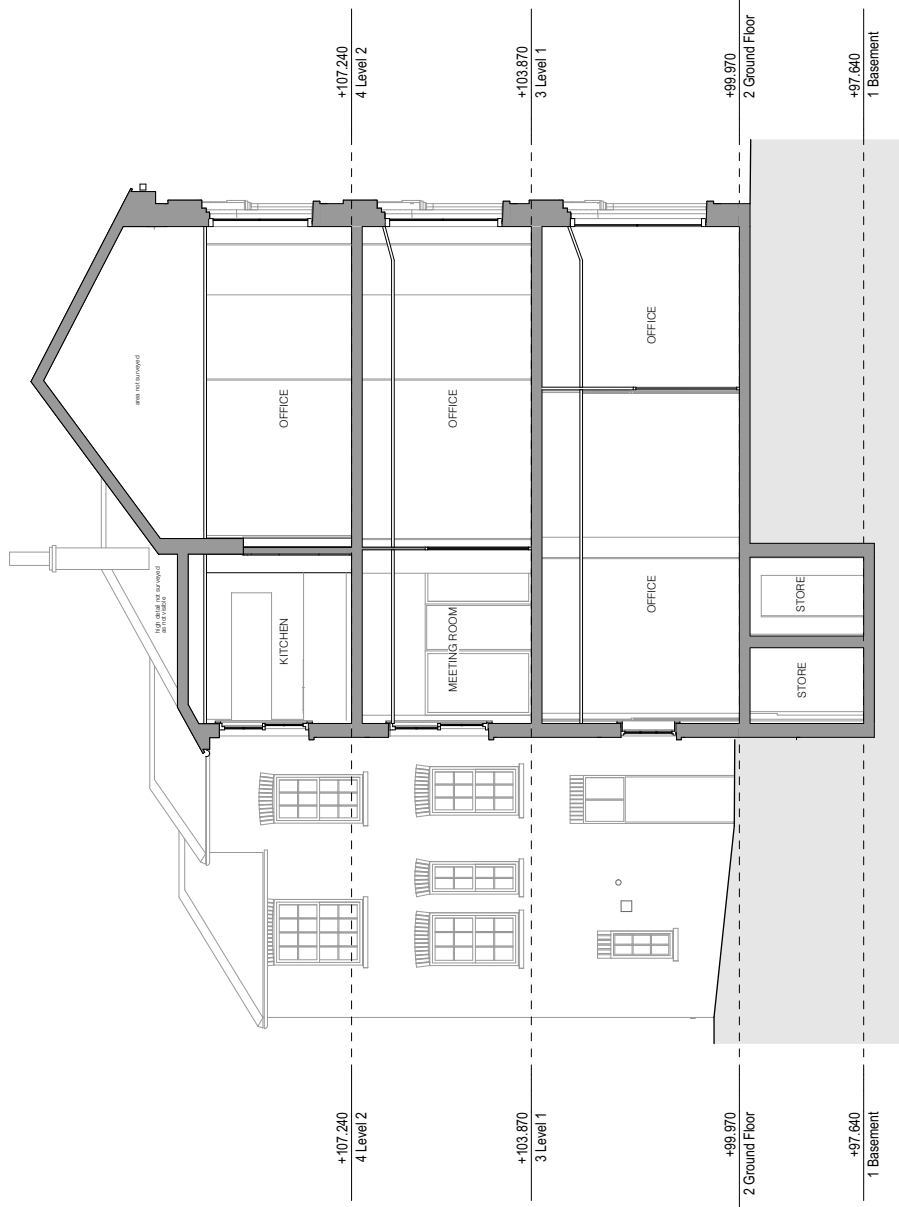
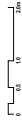
Drawing Name	Existing Plans
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PLANNING	
Drawing Status	

Drawing Scale
1:50 @ A1

Layout ID	P21-0300-EP
Part	

NOTES:
1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.



SECTION 1 - Existing
1:50

Revision	By	Date
1	12/05/2017	
2		
3		
4		
5		
6		
7		
8		
9		
10		

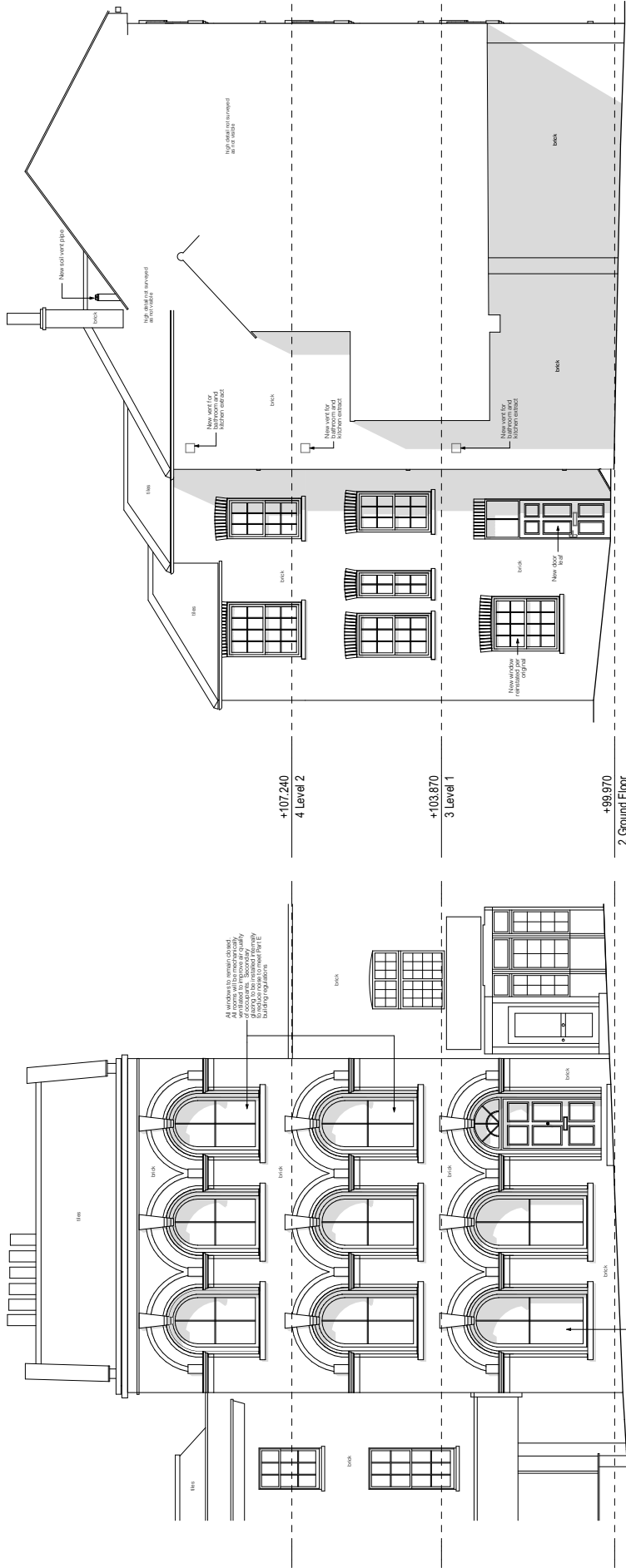
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OX9 0AB
+44 (0)1235 830000
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Project	41 LONDON STREET READING
Client Name	Existing Section 01
Client Status	PLANNING
Client Scale	1:50 @ A1
Layout ID	PC-1-000-051
Revision	00

41 LONDON STREET PROPOSED

NOTES:
1. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE BUILDING REGULATIONS 2010.
2. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE BUILDING REGULATIONS 2010.



1 ELEVATION Front - Proposed (remains unchanged)
1:50

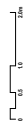
2 ELEVATION Side 1 - Proposed
1:50

Revision History		Revised By	Date
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10

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OX9 0AB
Tel: 01235 830000
www.fortisdesign.co.uk

Project	41 LONDON STREET READING
Client Name	Proposed Elevations 01
Client Status	PLANNING
Client Scale	1:50 @ A1
Layout ID	PE-1-030-PE01
Revision	01

[illegible]fortis^{DESIGN}

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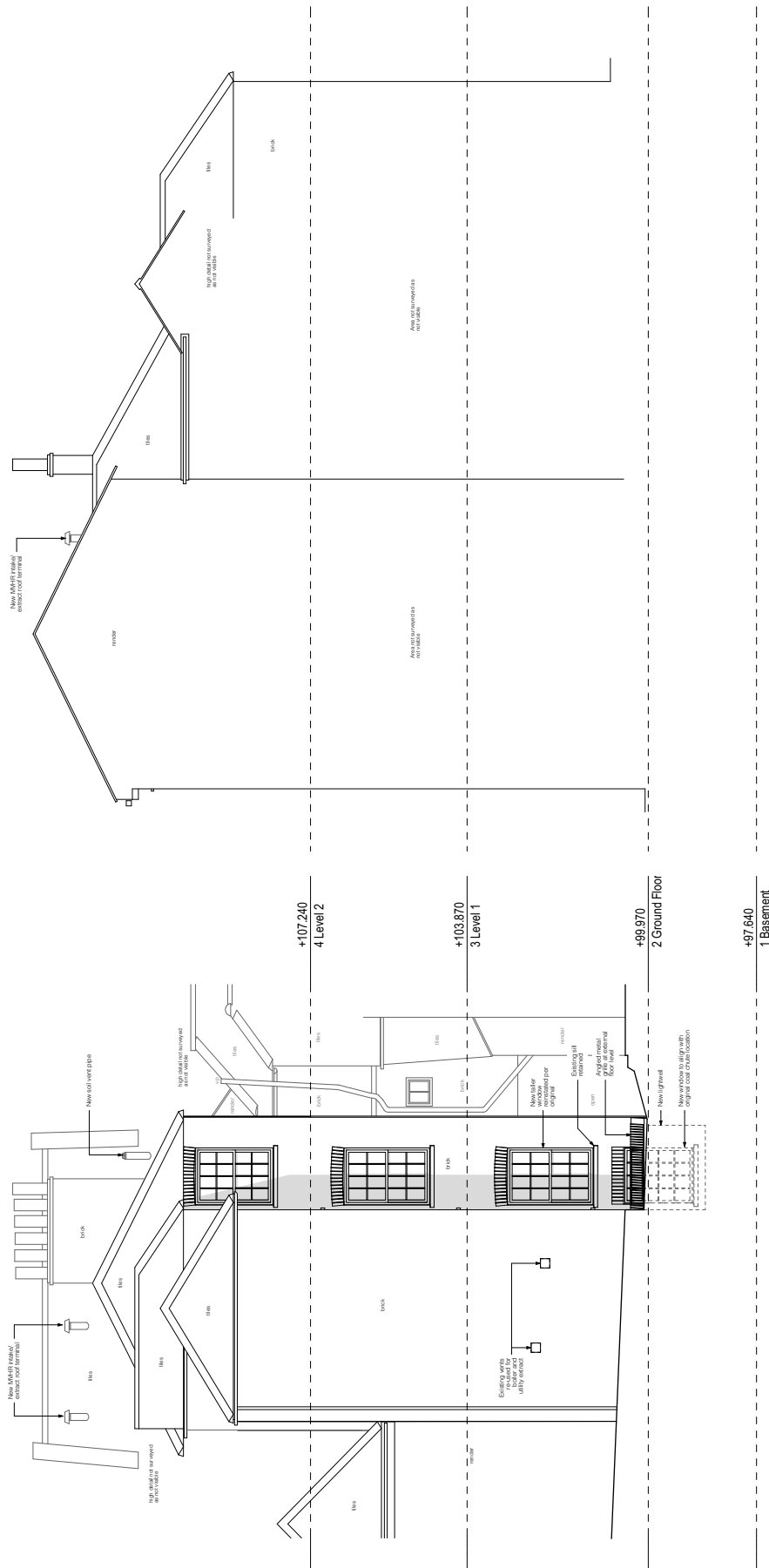
41 LONDON STREET
READING

Drawing Name
Proposed Elevations 02

PLANNING

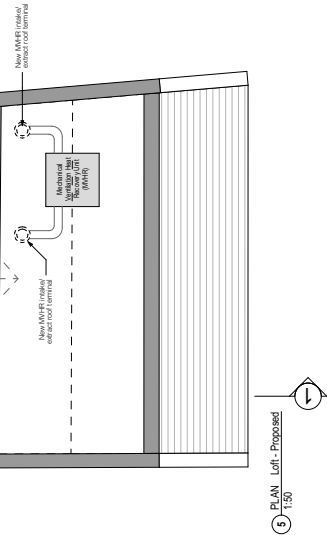
Drawing Scale
1:50 @ A1

Layout ID: P21-0300-PE02
Revision: 01



1 ELEVATION Rear - Proposed
1:50

2 ELEVATION Side 2 - Proposed 1:50

fortis
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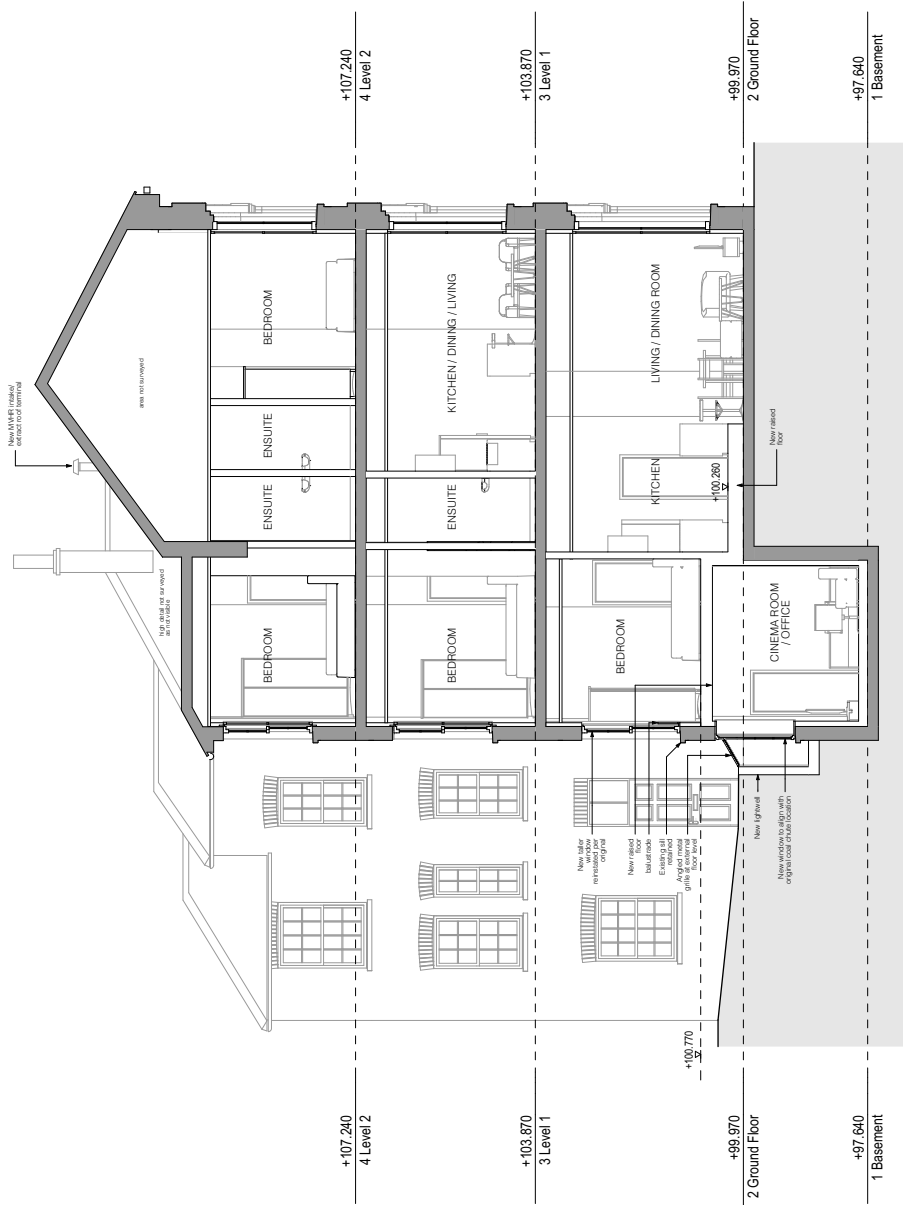
+44 7799538990
www.softdesign.co.uk

Proposed Plans	g Name
----------------	--------

Planning

1:50 @ A1

NOTES:
1. ALL WORK TO BE COMPLETED BY 15th NOVEMBER 2023.
2. ALL WORK TO BE COMPLETED BY 15th NOVEMBER 2023.



SECTION 1 - Proposed
1/150

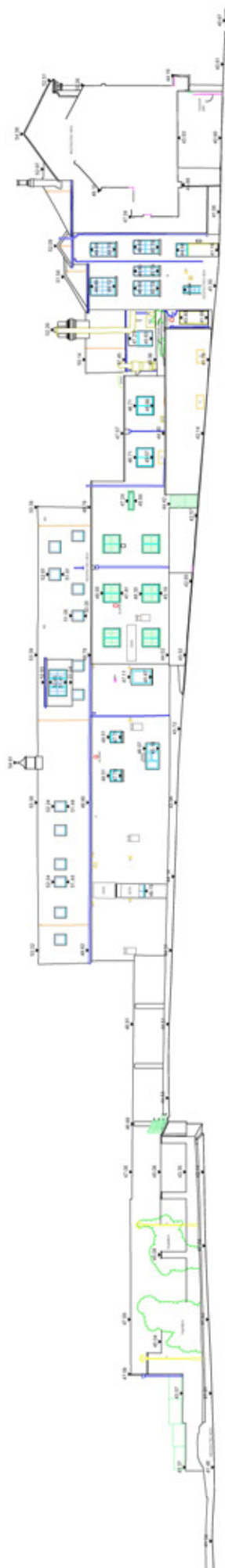
Revision	By	Date
1	Fortis Design Ltd	15/11/2023
2	Fortis Design Ltd	15/11/2023
3	Fortis Design Ltd	15/11/2023
4	Fortis Design Ltd	15/11/2023
5	Fortis Design Ltd	15/11/2023
6	Fortis Design Ltd	15/11/2023
7	Fortis Design Ltd	15/11/2023
8	Fortis Design Ltd	15/11/2023
9	Fortis Design Ltd	15/11/2023
10	Fortis Design Ltd	15/11/2023

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3 Hylton, Station Road, Goring
OX9 0BB
+44 (0)1235 830000
www.fortisdesign.co.uk

Project	41 LONDON STREET READING
Drawing Name	Proposed Section 01
Drawing Status	PLANNING
Drawing Scale	1:50 @ A1
Layout ID	PS-1-000-PS
Revision	01

43 LONDON STREET EXISTING



• 20.00m A00
AA

Source:

Levels are related to Ordnance Survey
Datum via GPS Observations

All information contained in this drawing
(including digital data) should be checked and
verified prior to any fabrication or construction.

Key:



Project: 43 and 43a London Street, Reading

Title: Site Sections/Elevations
Elevation A

Rev A: Drawings Updated following
internal survey of No. 43a

Drawn By: SB

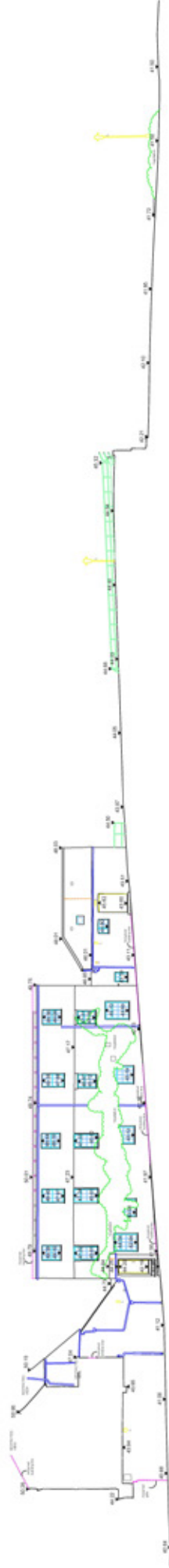
Scale: 1:100 @ A0

Date: December 2018

Dwg No: **LS2140/E/01_RevA**

Point 2 Surveys Ltd.
3rd Floor,
17 Stungby Place,
London WC2H 9AJ,
0207 836 3628
www.point2surveys.com





• 20.00m AOD
BB

Source:
Levels are related to Ordnance Survey
Datum via GPS Observations
All information contained in this drawing
(including digital data) should be checked and
verified prior to any fabrication or construction.

Key:



Project: 43 and 43a London Street, Reading

Drawn By: SB

Scale: 1:100 @ A0

Date: December 2018

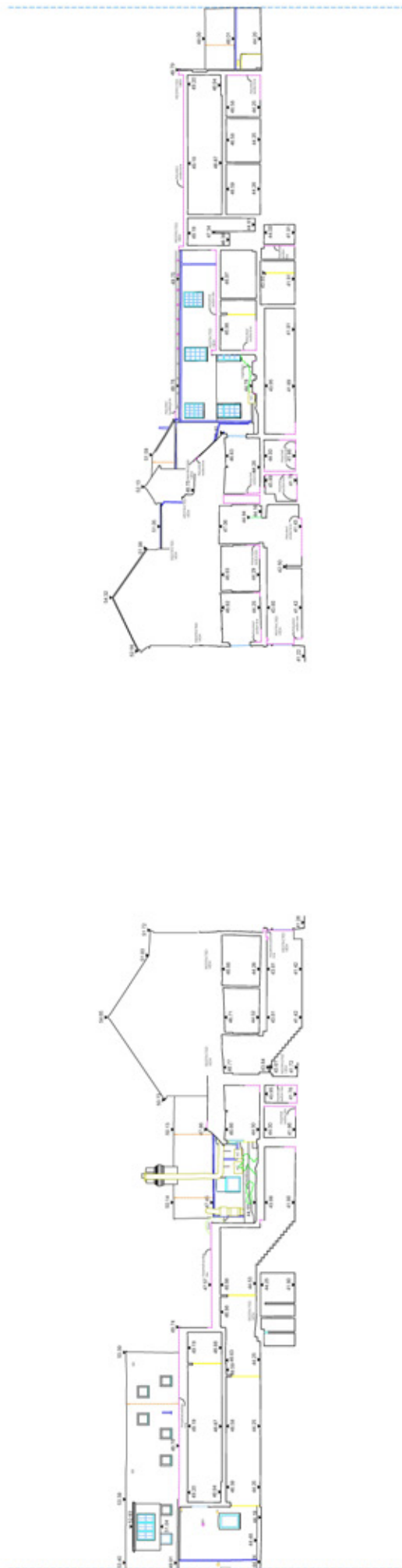
Title: Site Sections/Elevations
Elevation B

Rev A: Drawings Updated following
internal survey of No. 43a

Dwg No: **LS2140/E/02_RevA**

Point 2 Surveyors Ltd.
3rd Floor,
17 Stangley Place,
London WC2H 9AJ,
0207 836 3628
www.point2surveyors.com





• 20.00m AOD
CC

• 20.00m AOD
DO

Source:

Levels are related to Ordnance Survey
Datum via GPS Observations

All information contained in this drawing
(including digital data) should be checked and
verified prior to any fabrication or construction.

Key:



Project: 43 and 43a London Street, Reading

Title: Site Sections/Elevations
Elevations C and D

Rev A: Drawings Updated following
internal survey of No. 43a

Drawn By: SB

Scale: 1:100 @ A0

Date: December 2018

Dwg No: **LS2140/E/03_RevA**

Point 2 Surveyors Ltd.
3rd Floor,
17 Stangby Place,
London WC2H 9AJ,
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• 20.00m ACD
FF

• 20.00m ACD
EE

Source:
Levels are related to Ordnance Survey
Datum via GPS Observations
All information contained in this drawing
(including digital data) should be checked and
verified prior to any fabrication or construction.

Key:



Project: 43 and 43a London Street, Reading

Title: Site Sections/Elevations
Elevations E and F
Rev A: Drawings Updated following
internal survey of No. 43a

Drawn By: SB

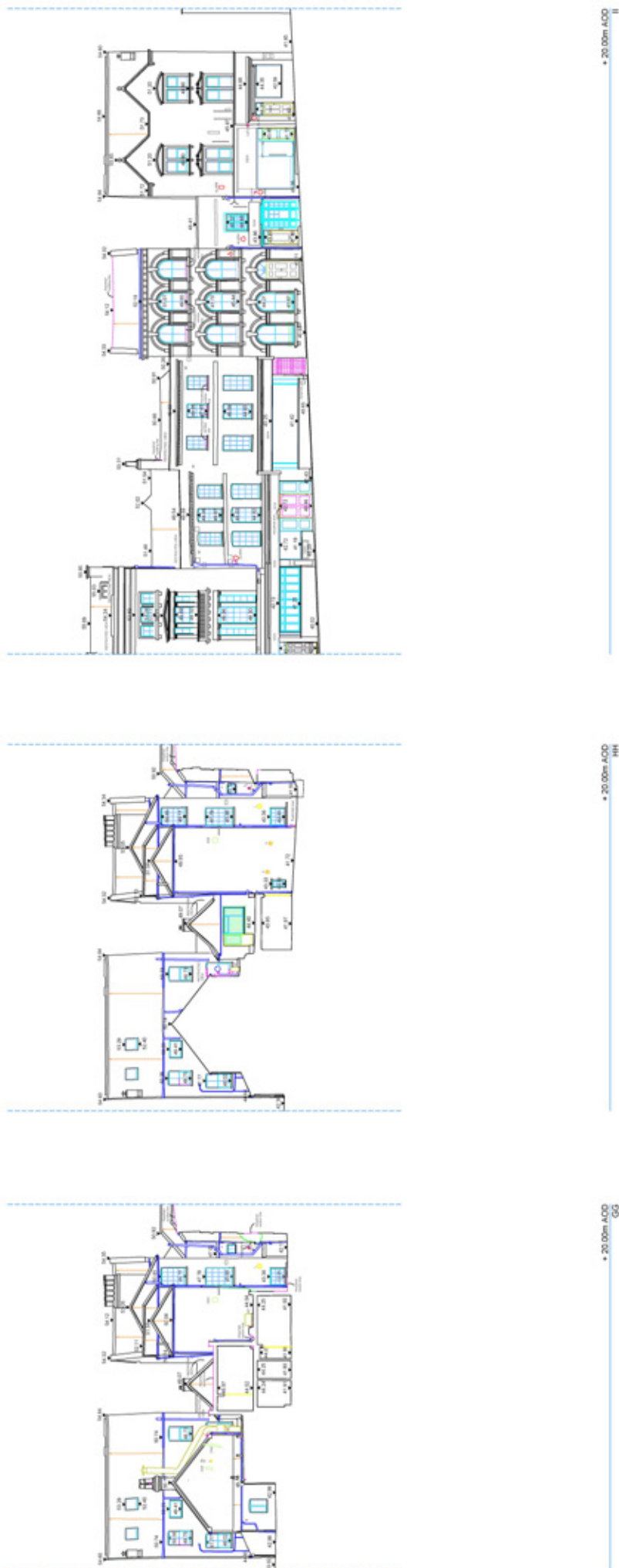
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Date: December 2018

Dwg No: **LS2140/E/04_RevA**

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17 Stangley Place,
London WC2H 9AJ,
0207 836 3628
www.point2surveys.com





Source:

Levels are related to Ordnance Survey Datum via GPS Observations

All information contained in this drawing (including digital data) should be checked and verified prior to any fabrication or construction.

Key:



Project: 43 and 43a London Street, Reading

Title: Site Sections/Elevations
Elevations G, H and I

Rev A: Drawings Updated following
internal survey of No. 43a

Drawn By: SB

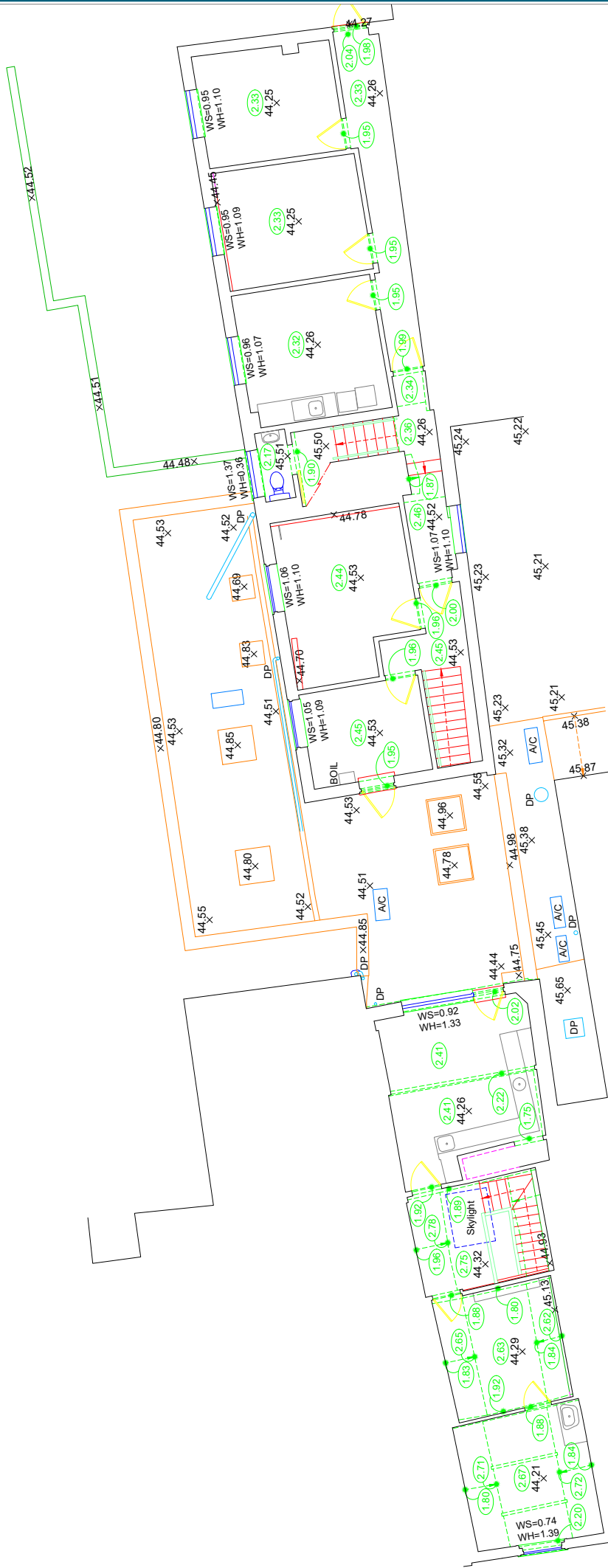
Scale: 1:100 @ A0

Date: December 2018

Dwg No: **LS2140/E/05_RevA**

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3rd Floor,
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London WC2H 9AJ,
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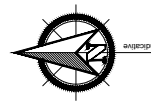


Sources: Levels are related to Ordnance Survey Datum via GPS Observations Survey location is related to Ordnance Survey Grid via GPS Observations All information contained in this drawing (including digital data) should be checked and verified prior to any fabrication or construction.	Key: WS Floor to Window Sill Height WH Window Sill to Head Height 2.30 Floor to Finished Ceiling Height 10.00 Finished Floor Level FC False Ceiling G Gully IC Inspection Cover V Vent A/C Air Conditioning Unit H Height C Column	Project: 43 and 43a London Street, Reading	Title: First Floor Plan	Point 2 Surveyors Ltd, 3rd Floor, 17 Slingsby Place, London WC2E 9AB, 0207 536 5928 www.point2surveyors.com POINT SURVEYORS Drawn By: SB Scale: 1:50 @ A1 Date: January 2019 Dwg No: LS2140/1/01
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Levels are related to Ordnance Survey Datum via GPS Observations

All information contained in this drawing
(including digital data) should be checked and
verified prior to any fabrication or construction.

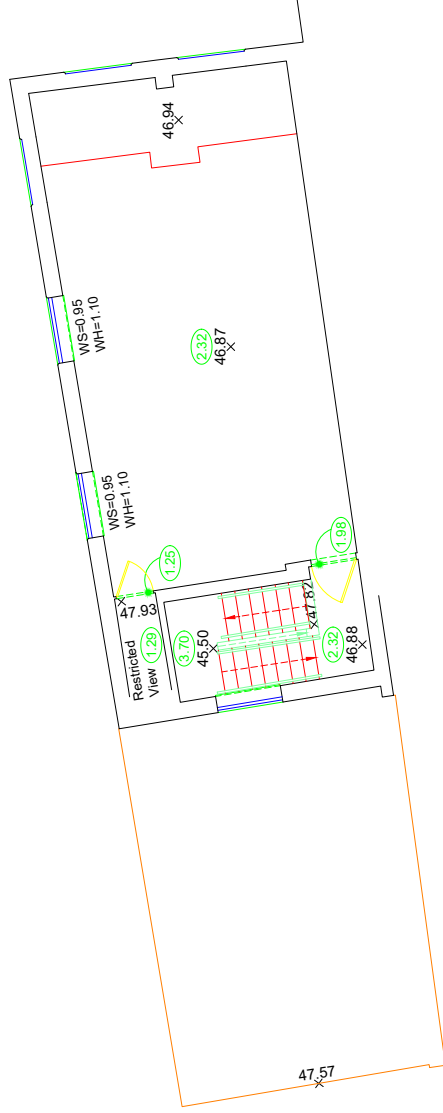
WS	Floor to Window Sill Height
WH	Window Sill to Head Height
2.30	Floor to Finished Ceiling Height
10.00	Finished Floor Level
FC	False Ceiling
FG	Gully
IC	Inspection Cover
V	Vent
AC	Air Conditioning Unit
H	Height
C	Column



Title: Ground Floor Plan

Dwg No: **LS2140/G/01**





Sources:
Levels are related to Ordnance Survey Datum via GPS Observations
Survey location is related to Ordnance Survey Grid via GPS Observations
All information contained in this drawing (including digital data) should be checked and verified prior to any fabrication or construction.

- Key:**
- WS Floor to Window Sill Height
 - WH Window Sill to Head Height
 - 2.30 Floor to Finished Ceiling Height
 - 10.00 Finished Floor Level
 - FC False Ceiling
 - G Gully
 - IC Inspection Cover
 - V Vent
 - A/C Air Conditioning Unit
 - H Height
 - C Column



Project: 43 and 43a London Street, Reading

Title: Second Floor Plan

Point 2 Surveyors Ltd,
3rd Floor,
17 Slingsby Place,
London WC2E 9AB,
0207 536 5928
www.point2surveyors.com



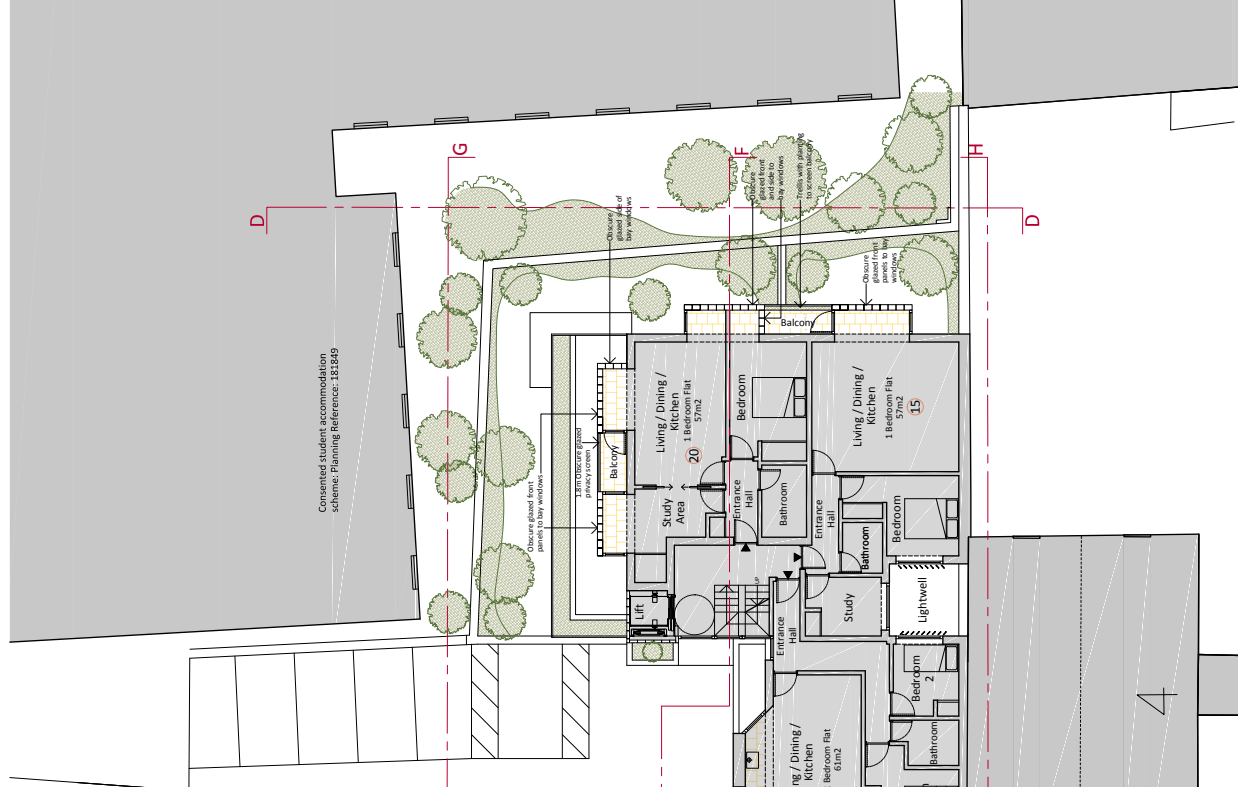
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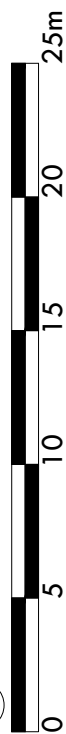
Date: January 2019

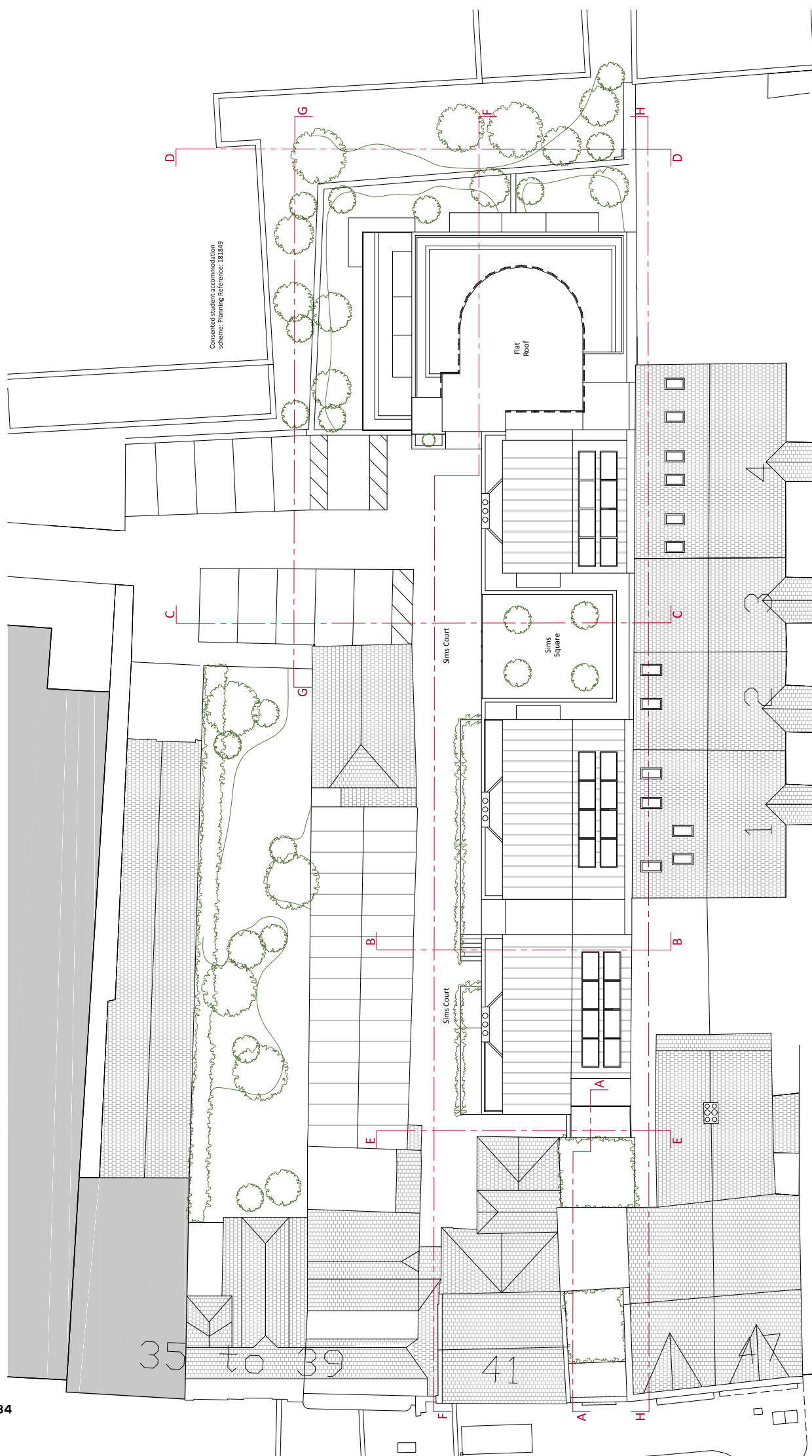
Scale: 1:50 @ A1

Drawn By: SB

43 LONDON STREET PROPOSED

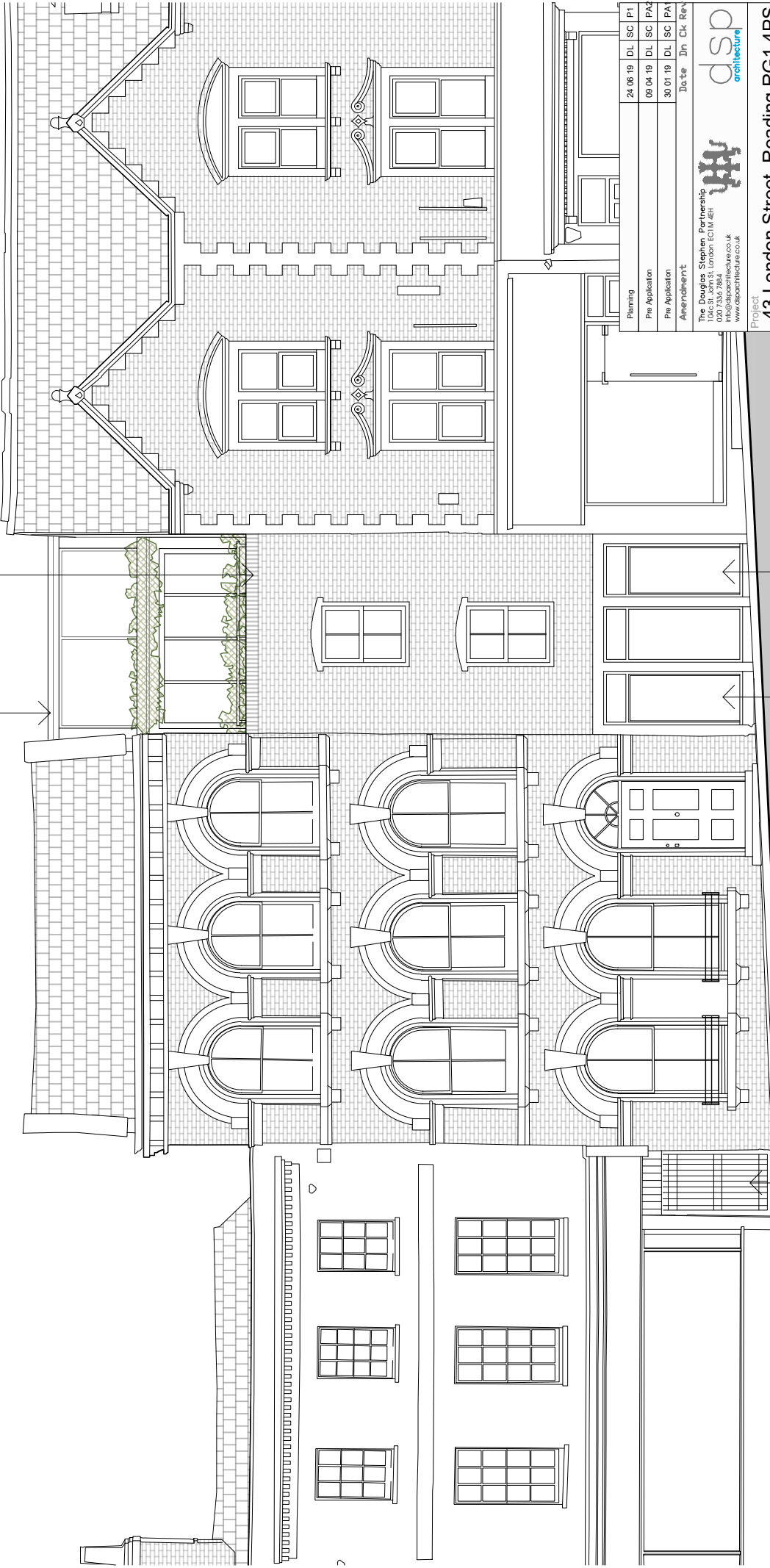






Set back roof extension

Raised brick brick facade



Entrance to
Sims Court

New set back entrance to
43 London Street flats

New shop front and
entrance to D1 unit

Planning	24 06 19	DL	SC	P1
Pre Application	09 04 19	DL	SC	PA2
Pre Application	30 01 19	DL	SC	PA1
Amendment		Date	In	Ck Rev

The Douglas Stephen Partnership
104 St John St, London EC1M 4EH
020 7330 7829
info@dspl.co.uk
www.dspl.co.uk



dspl
architecture

Project
43 London Street, Reading RG1 4PS

Title
Proposed Street Elevation

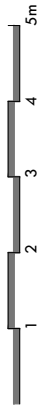
Status
Planning

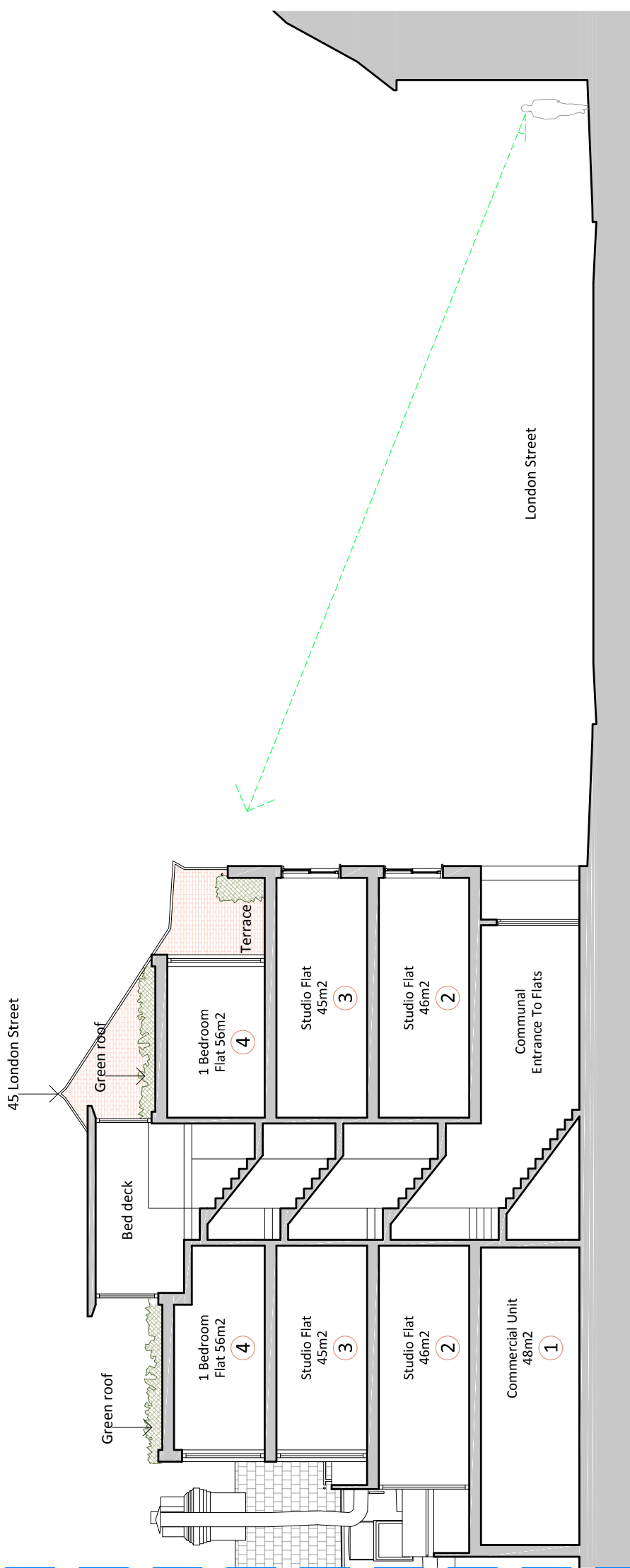
Scale
1:100@A4

Drawing No.
LSR 020

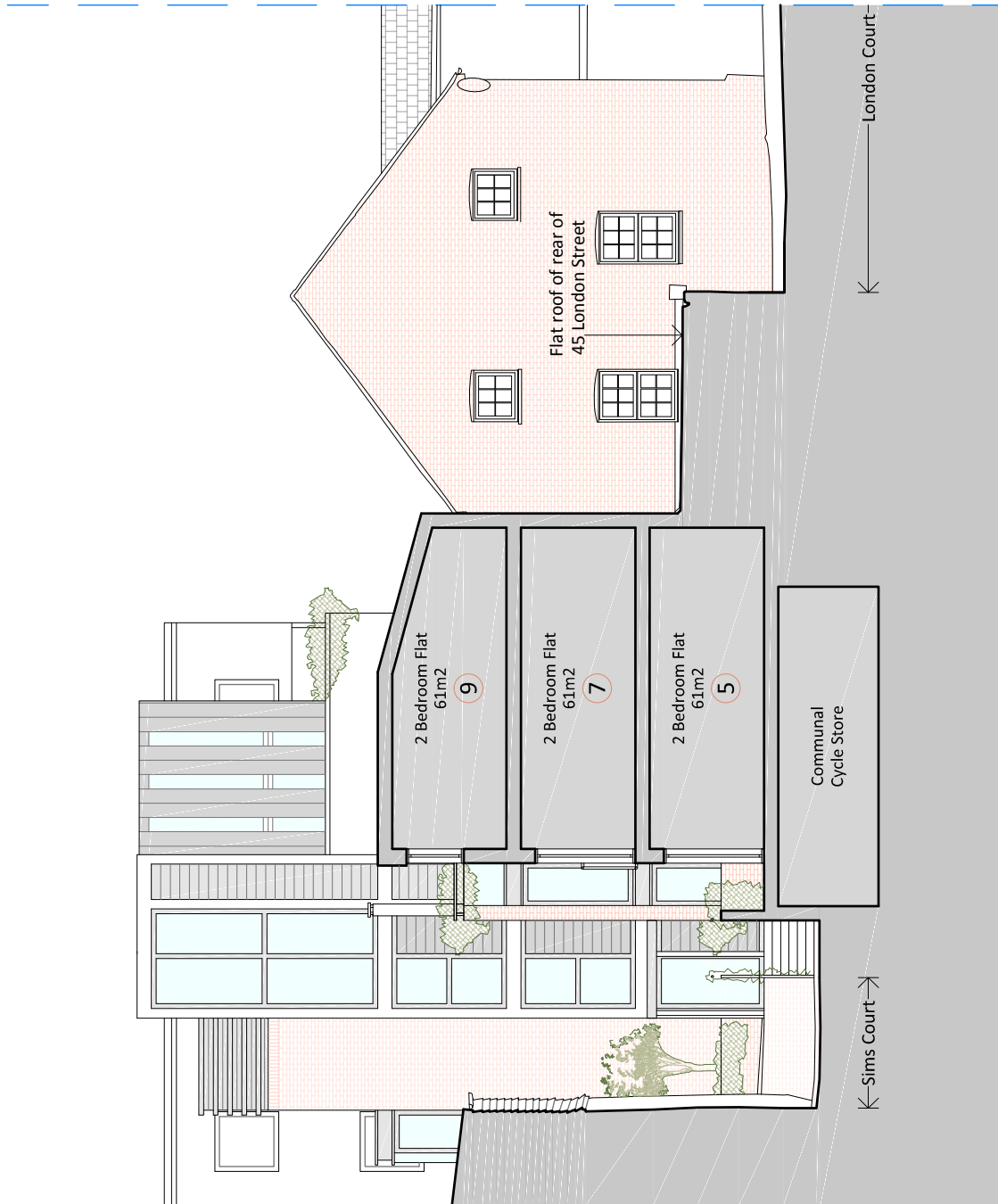
Rev.
P1

Copyright DSPL. Do not scale from this drawing. All dimensions to be verified on site. All discrepancies to be notified to the





Planning	24.06.19	DL	SC	P1
Pre Application	09.04.19	DL	SC	PA6
Pre Application	30.01.19	DL	SC	PA
Preparation's	Date	Day	CR	Rev
The Douglas Stephen Partnership 1007 330 7884 1007 330 7884 www.dsparchitect.co.uk  dsp architecture				
Project				
43 London Street, Reading RG1 4PS				
Title				
Proposed Cross Section AA				
Status				
Planning				
Scale				
1:100@A3				
Drawing No.				
LSR 030				
Rev				
P1				



Planning	02.01.20	DL	SC	P3
Planning	04.12.19	DL	SC	P2
Planning	24.06.19	DL	SC	P1
Pre Application	09.04.19	DL	SC	PA2
Pre Application	30.01.19	DL	SC	PA1
Amendment 2	02.01.20	DL	SC	PA
Amendment 1	02.01.20	DL	SC	PA
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Proposed Cross Section BB				
Planning				
Scale 1:100@A3				
Drawing No. LSR 031				
Revision P3				
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Planning	02.01.20	DL	SC	P3
Planning	04.12.19	DL	SC	P3
Planning	24.06.19	DL	SC	P1
Pre Application	09.09.19	DL	SC	P3
Pre Application	30.01.19	DL	SC	P3
Amendments	24.06.19	DL	SC	P3



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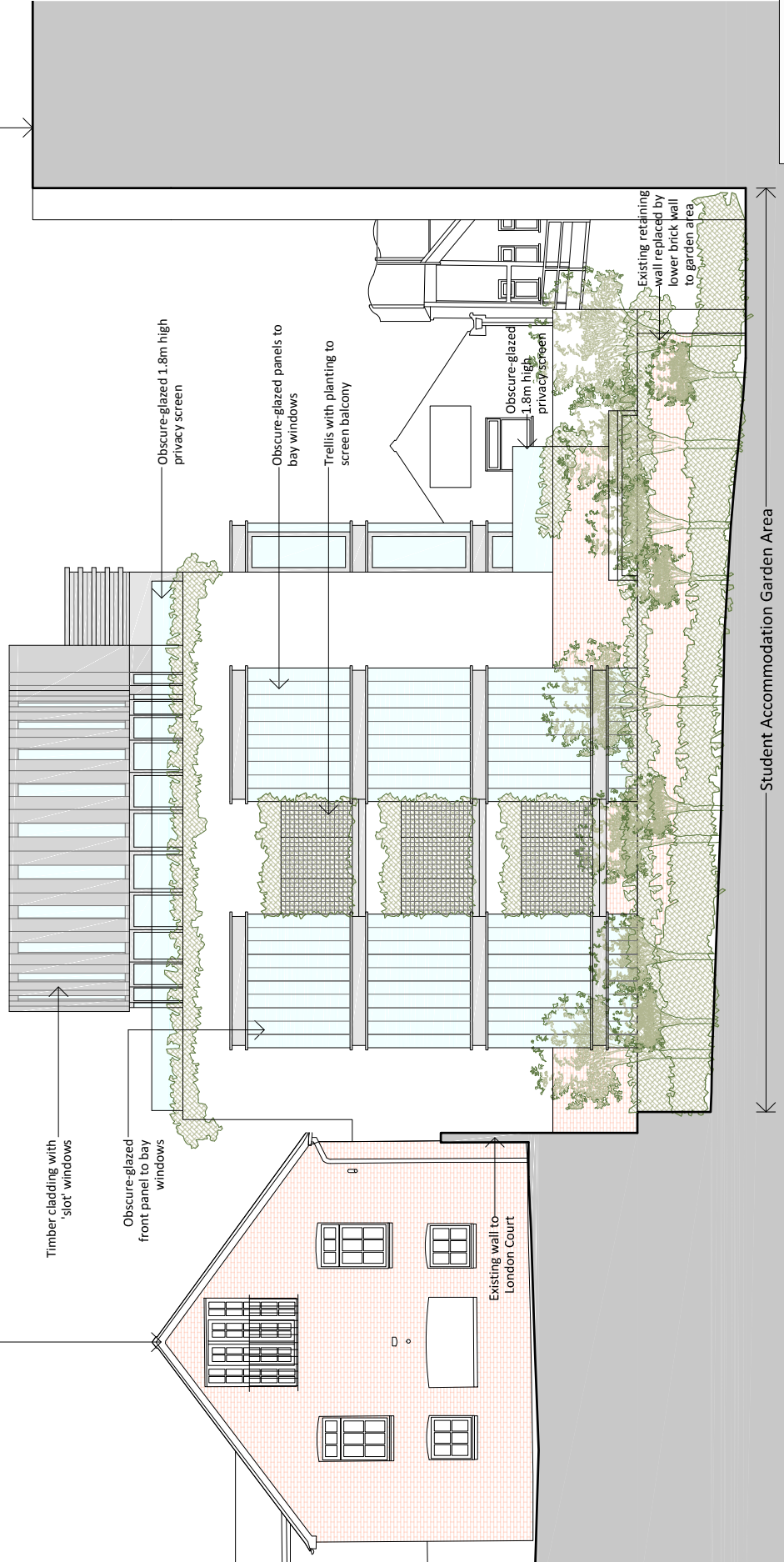
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Title		Scale
Proposed Section CC		Scale
Planning	1:100@A3	
Dimensions	P3	

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Consented student accommodation
scheme: Planning Reference: 181849

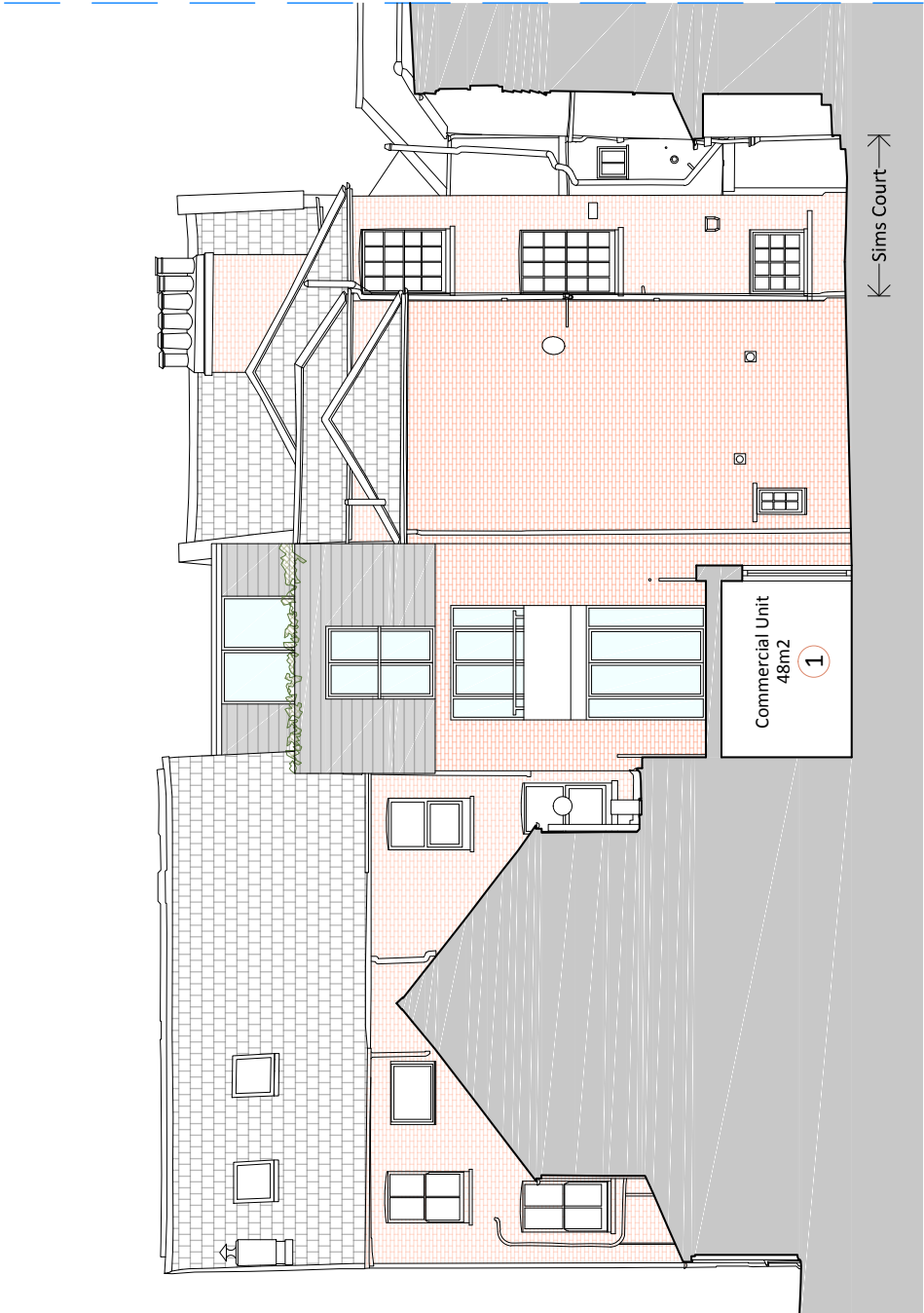
London Court



Student Accommodation Garden Area

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Planning	04.12.19	DL	SC	P2
Planning	24.06.19	DL	SC	P1
Pre Application	09.04.19	DL	SC	PA2
Pre Application	30.01.19	DL	SC	PA1
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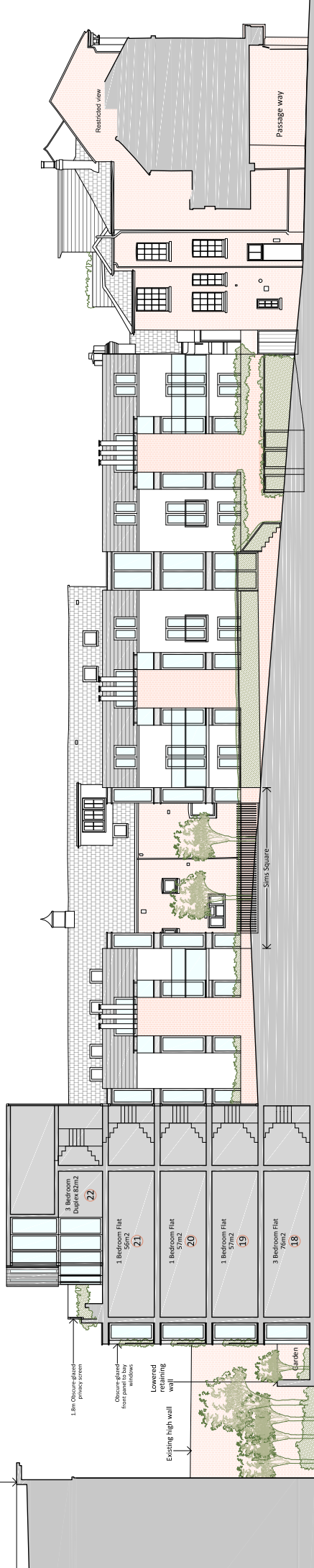
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Planning	24.06.19	DL	SE	P1
Pre Application	09.04.19	DL	SE	PA
Pre Application	30.01.19	DL	SE	PA
Amendment	Date	App	CL	Rev
 The Double Street Partnership 100 & 101/12 London EC1M 6HT 0203 634 0000 www.doublestreetpartnership.co.uk				
43 London Street, Reading RG1 4PS				
Proposed Cross Section EE				
Planning	Scale	1:100@A3		
Drawing No.	Rev	LSR 034 P1		
Copyright DSP. Do not scale from this drawing. All dimensions to be verified on site. All dimensions to be notified to the architect.				

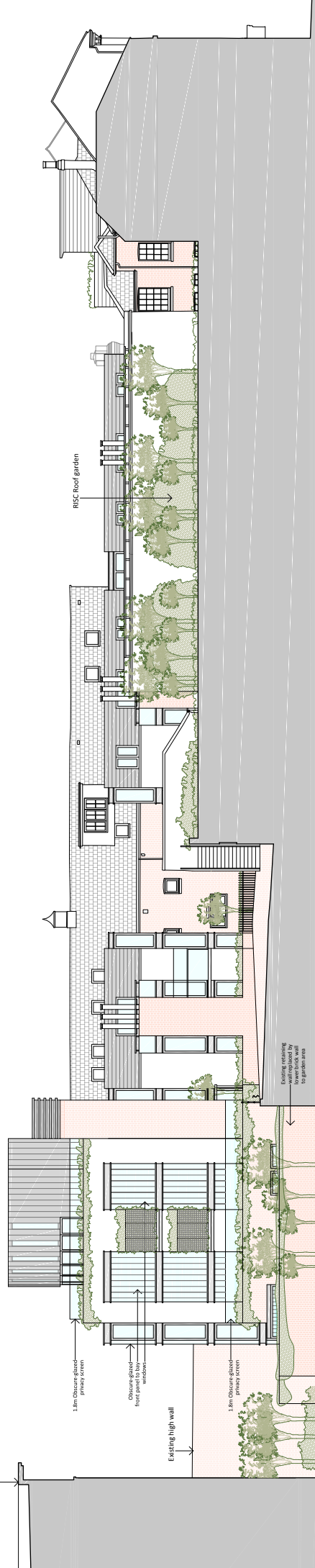


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scheme: Planning Reference: 181849

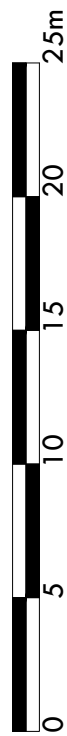
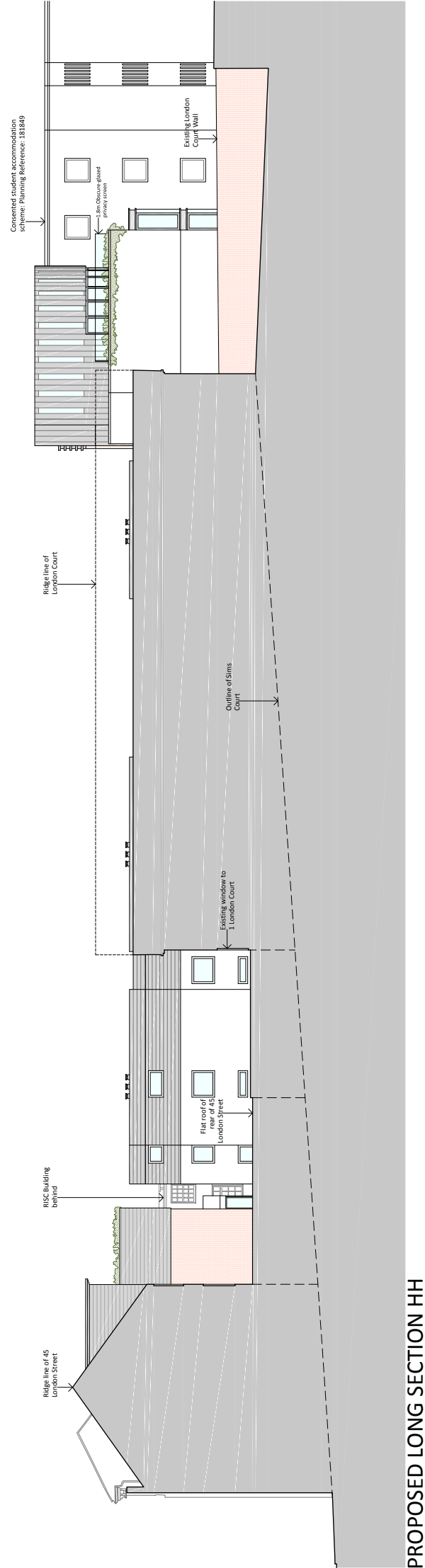


PROPOSED LONG SECTION FF

Consented student accommodation
scheme: Planning Reference: 181849

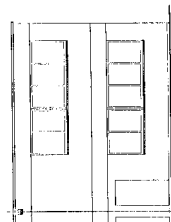


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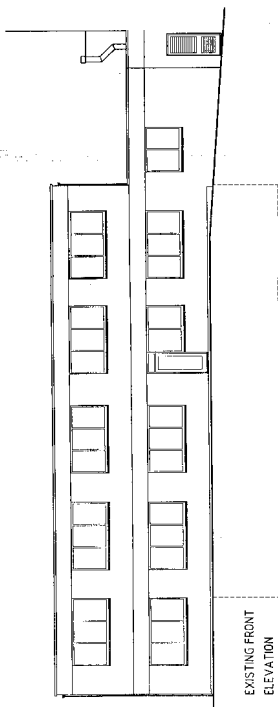
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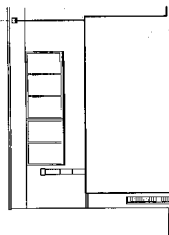
72A LONDON STREET EXISTING



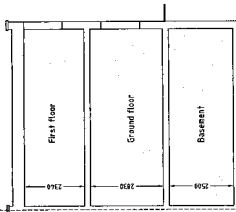
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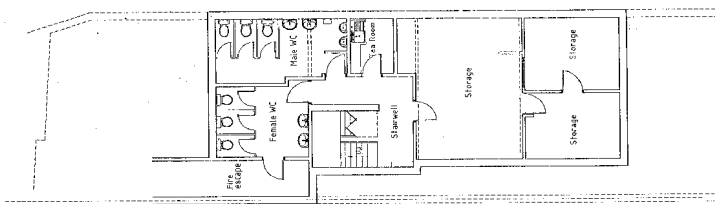
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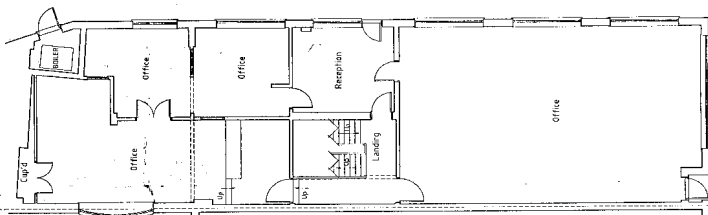
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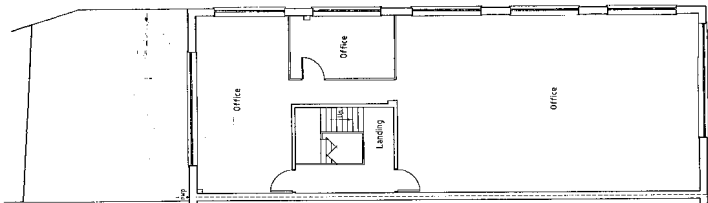
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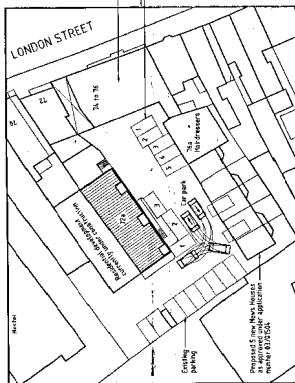
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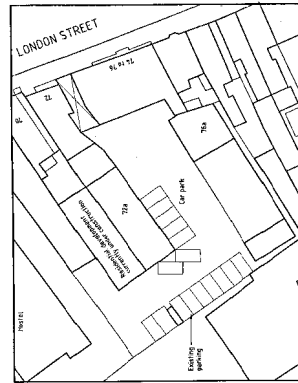
EXISTING GROUND FLOOR PLAN



EXISTING FIRST FLOOR PLAN



PROPOSED SITE PLAN



EXISTING SITE PLAN



LOCATION PLAN

Proposed changes to the site plan are shown in red. The site plan is subject to the planning process and the final plan may differ from the proposed plan.

READING BOROUGH COUNCIL
AMENDED PLAN

BDS
RICS
Chartered Surveyors & Property Consultants
Architectural & Planning Services
Building & Structural Engineers
Woburn House, Jubilee Lane, Sharnbrook, Reading, RG2 9AB
Tel: 0118 988 2477 website: www.bdsurveyors.co.uk
Fax: 0118 988 2088 email: enquiries@bdsurveyors.co.uk

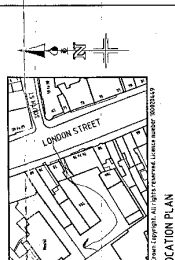
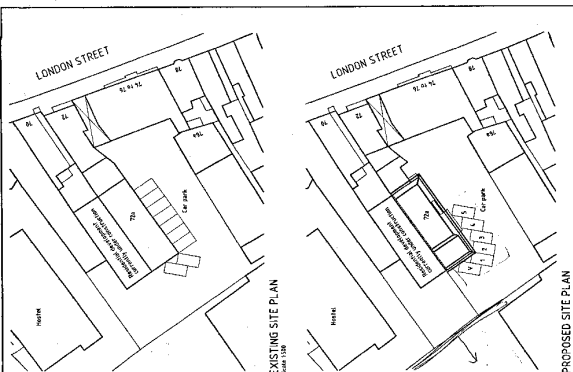
PROPOSED DEVELOPMENT AT
22-24 LONDON STREET
READING
BERKSHIRE

Drawn by: [Signature]
Checked by: [Signature]
Date: 03.06.24
Scale: 1:100
Drawing number: 5507046.1
E: [Signature]

Consent to develop is granted on the basis of the following conditions:
1. The development shall be in accordance with the approved plans.
2. All operations shall be carried out in accordance with the approved plans.
3. The development shall be carried out in accordance with the approved plans.
4. The development shall be carried out in accordance with the approved plans.

READING BOROUGH COUNCIL
18 MAY 2024
PLANNING

72A LONDON STREET PROPOSED



BDS
Chartered Building Surveyors & Property Consultants
Architectural & Building Design Services

Waterside House, Hove Law, Stearns, Reading, RG2 1JL
Tel: 0118 988 8888
Email: info@bdsurveyors.co.uk

Project: Residential development at
Reading, Berkshire

Client: Mr H J Pitt

Drawn: 01/06/04

Scale: 1:500

Project No: 555744.1

Rev: 1

Drawn By: TCS

Check: TCS

Approved: TCS

Project Manager: TCS

Project Description: Residential development at Reading, Berkshire

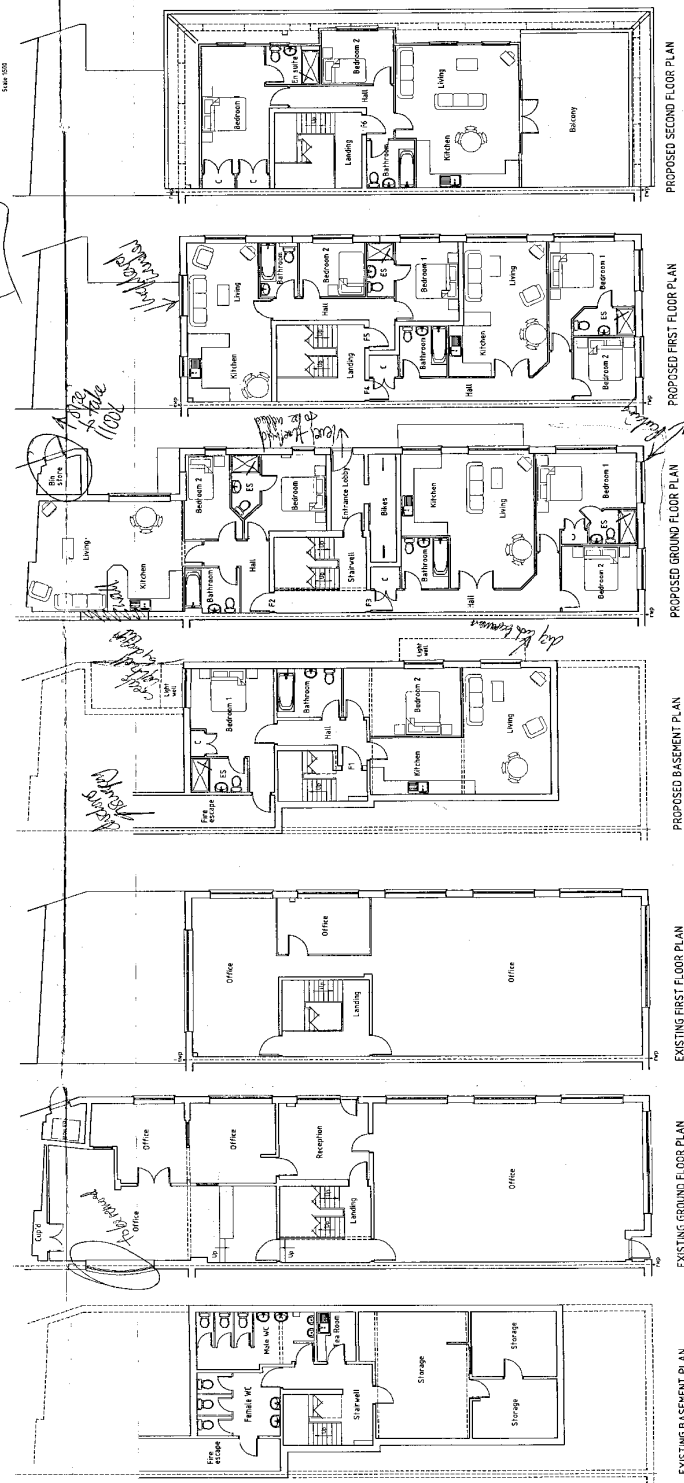
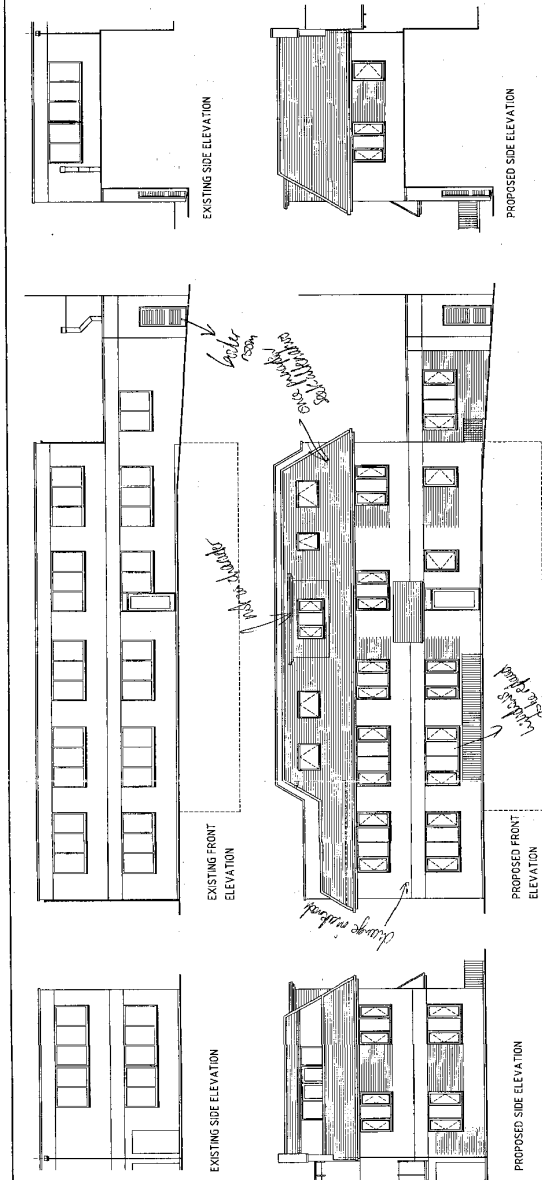
Project Status: Approved

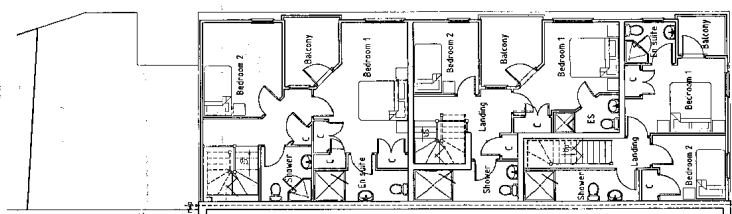
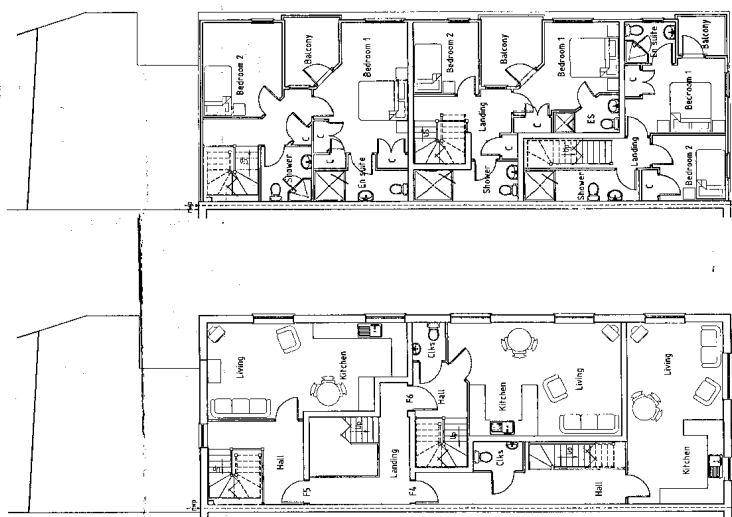
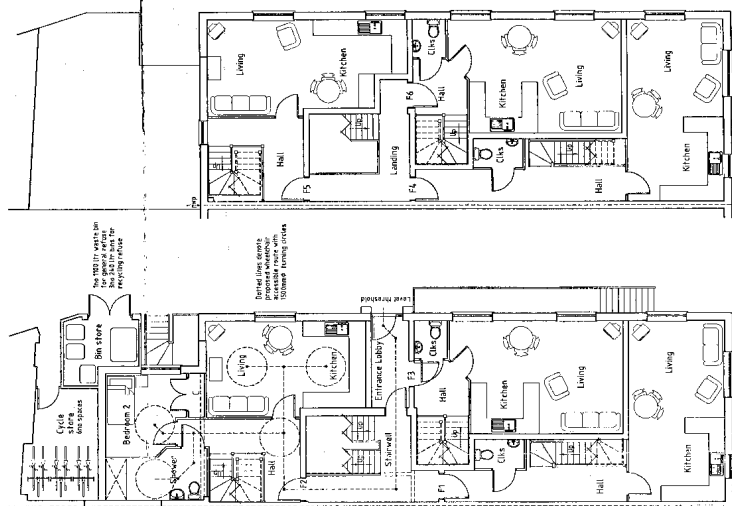
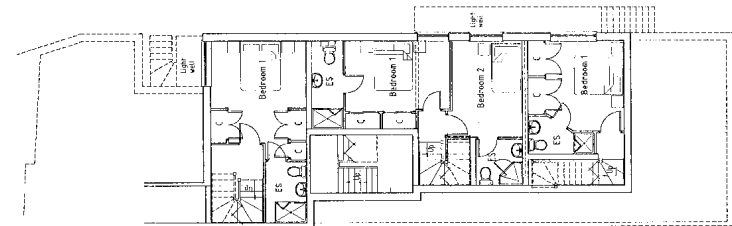
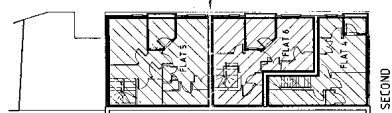
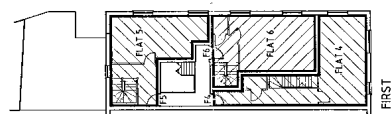
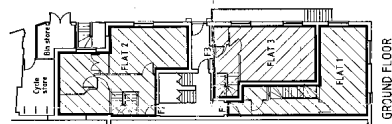
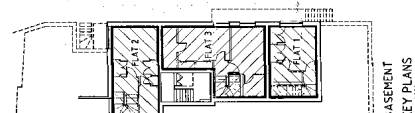
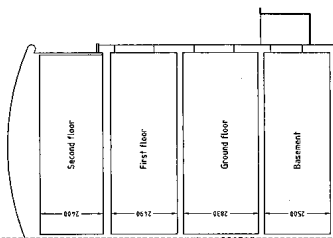
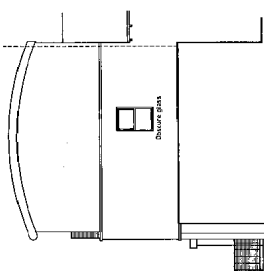
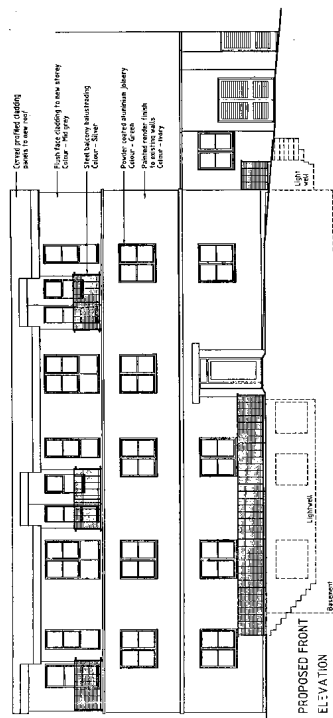
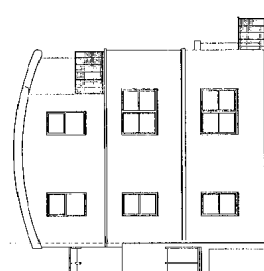
Project Date: 01/06/04

Project Location: Reading, Berkshire

Project Reference: 555744.1

Project Notes: 1. Dimensions to be checked on site before any work commences.
2. This drawing does not represent a final construction drawing or materials.
3. The drawing and design are subject to the provisions of the Building Regulations 1991.





Unit	Description
Unit 1	1 bed basement/ground floor maisonette
Unit 2	2 bed basement/ground floor maisonette
Unit 3	2 bed basement/ground floor maisonette
Unit 4	2 bed first/second floor maisonette
Unit 5	2 bed first/second floor maisonette
Unit 6	2 bed first/second floor maisonette
Total accommodation	
Average unit size	

DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
10/1/01	OPENING BALANCE			100.00
10/2/01	PAYROLL	50.00		50.00
10/3/01	RECEIVED FROM CLIENT		75.00	125.00
10/4/01	PAYROLL	50.00		75.00
10/5/01	RECEIVED FROM CLIENT		75.00	150.00
10/6/01	PAYROLL	50.00		100.00
10/7/01	RECEIVED FROM CLIENT		75.00	175.00
10/8/01	PAYROLL	50.00		125.00
10/9/01	RECEIVED FROM CLIENT		75.00	200.00
10/10/01	PAYROLL	50.00		150.00
10/11/01	RECEIVED FROM CLIENT		75.00	225.00
10/12/01	PAYROLL	50.00		175.00
10/13/01	RECEIVED FROM CLIENT		75.00	250.00
10/14/01	PAYROLL	50.00		200.00
10/15/01	RECEIVED FROM CLIENT		75.00	275.00
10/16/01	PAYROLL	50.00		225.00
10/17/01	RECEIVED FROM CLIENT		75.00	300.00
10/18/01	PAYROLL	50.00		250.00
10/19/01	RECEIVED FROM CLIENT		75.00	325.00
10/20/01	PAYROLL	50.00		275.00
10/21/01	RECEIVED FROM CLIENT		75.00	350.00
10/22/01	PAYROLL	50.00		300.00
10/23/01	RECEIVED FROM CLIENT		75.00	375.00
10/24/01	PAYROLL	50.00		325.00
10/25/01	RECEIVED FROM CLIENT		75.00	400.00
10/26/01	PAYROLL	50.00		350.00
10/27/01	RECEIVED FROM CLIENT		75.00	425.00
10/28/01	PAYROLL	50.00		375.00
10/29/01	RECEIVED FROM CLIENT		75.00	450.00
10/30/01	PAYROLL	50.00		400.00
10/31/01	RECEIVED FROM CLIENT		75.00	475.00
11/1/01	PAYROLL	50.00		425.00
11/2/01	RECEIVED FROM CLIENT		75.00	500.00
11/3/01	PAYROLL	50.00		450.00
11/4/01	RECEIVED FROM CLIENT		75.00	525.00
11/5/01	PAYROLL	50.00		475.00
11/6/01	RECEIVED FROM CLIENT		75.00	550.00
11/7/01	PAYROLL	50.00		500.00
11/8/01	RECEIVED FROM CLIENT		75.00	575.00
11/9/01	PAYROLL	50.00		525.00
11/10/01	RECEIVED FROM CLIENT		75.00	600.00
11/11/01	PAYROLL	50.00		550.00
11/12/01	RECEIVED FROM CLIENT		75.00	625.00
11/13/01	PAYROLL	50.00		575.00
11/14/01	RECEIVED FROM CLIENT		75.00	650.00
11/15/01	PAYROLL	50.00		600.00
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11/17/01	PAYROLL	50.00		625.00
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11/24/01	RECEIVED FROM CLIENT		75.00	775.00
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BDS

 **RICS**

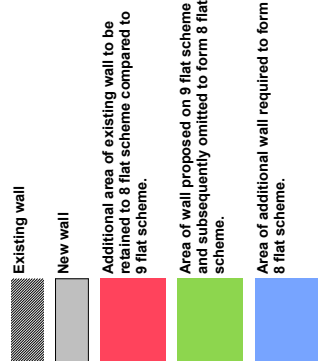
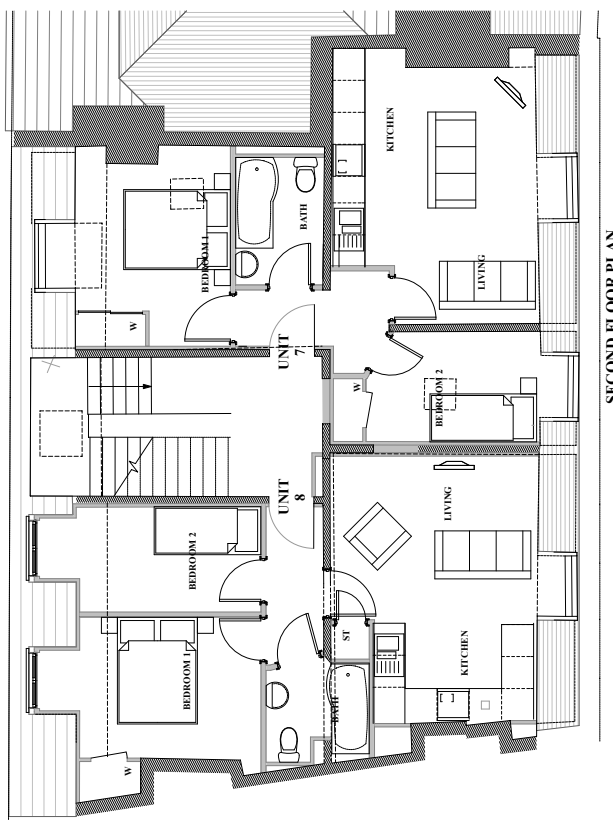
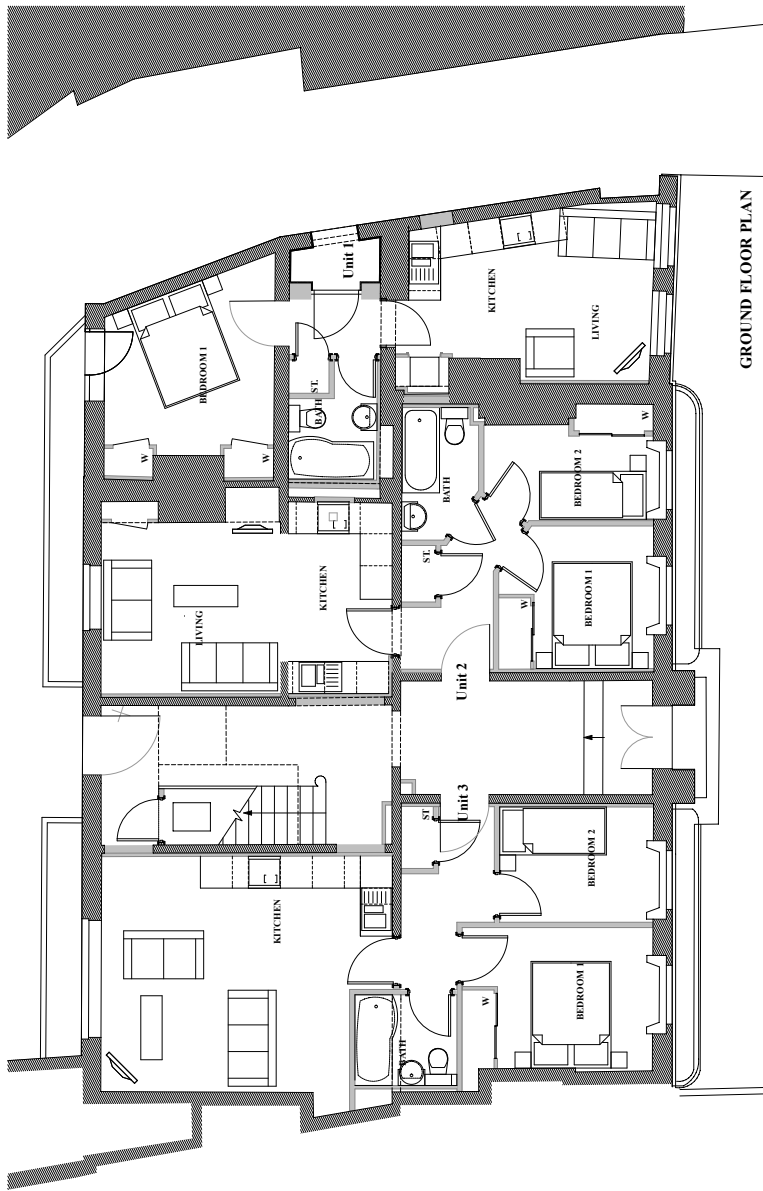
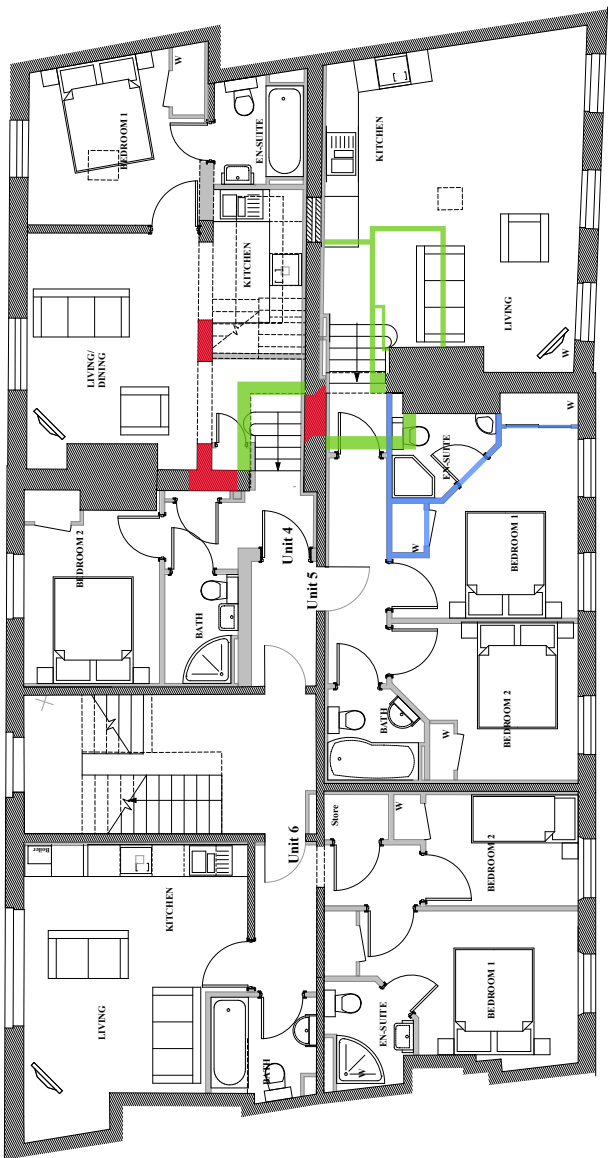
Chartered Surveyors & Property Consultants
Architectural & Building Design Services
Building & Structural Engineers

Windward House, Holroyd Lane, Sherfield, Reading, RG2 9AD
Tel: 0118 885 5255 website: www.bdsurveyors.co.uk
Fax: 0118 885 5255 email: enquiries@bdsurveyors.co.uk

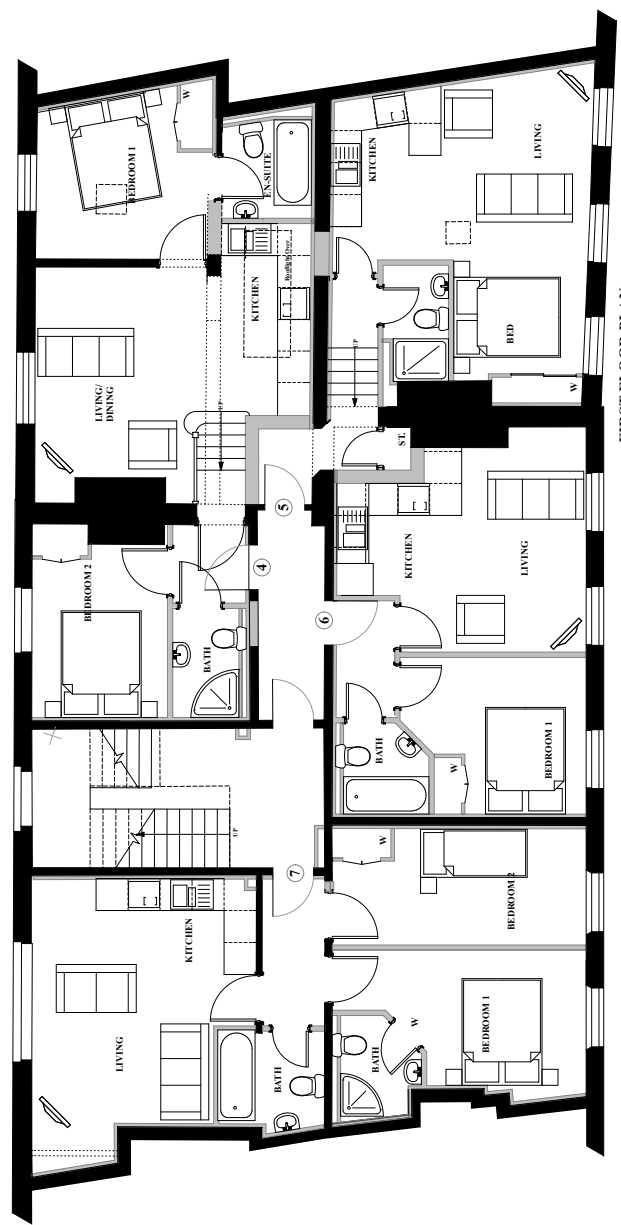
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PROPOSED PLANS & ELEVATIONS		
Drawing title	Mr M J PITT	
Client		
Date	03.06.04	Scale 1:100
Drawn by	TCG	Drawing number 5587/04-2
		Sheet

Review Topic	Description
Current issues 1. Draw-entire to be checked on site before any work commences 2. All alterations to structures, plantations, roads or embankments must be approved by the District Engineer 3. The drawing and design is copyright of the practice	

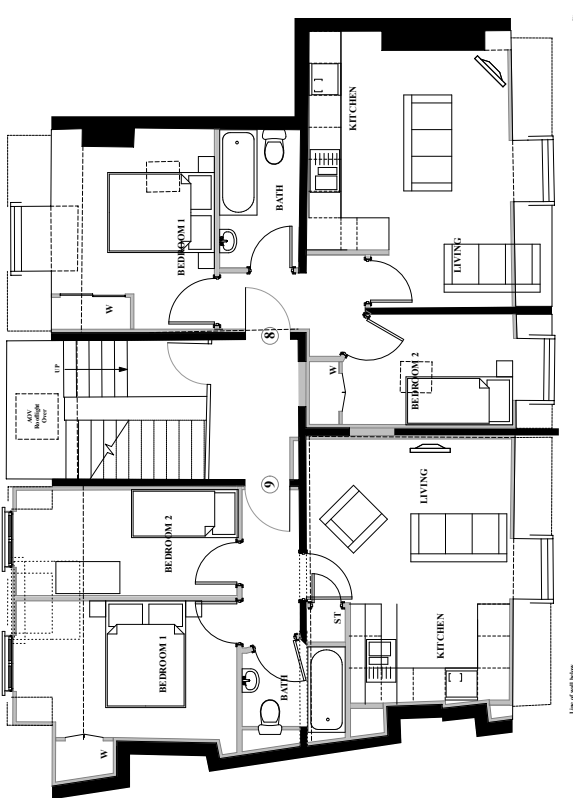
74-76 LONDON STREET



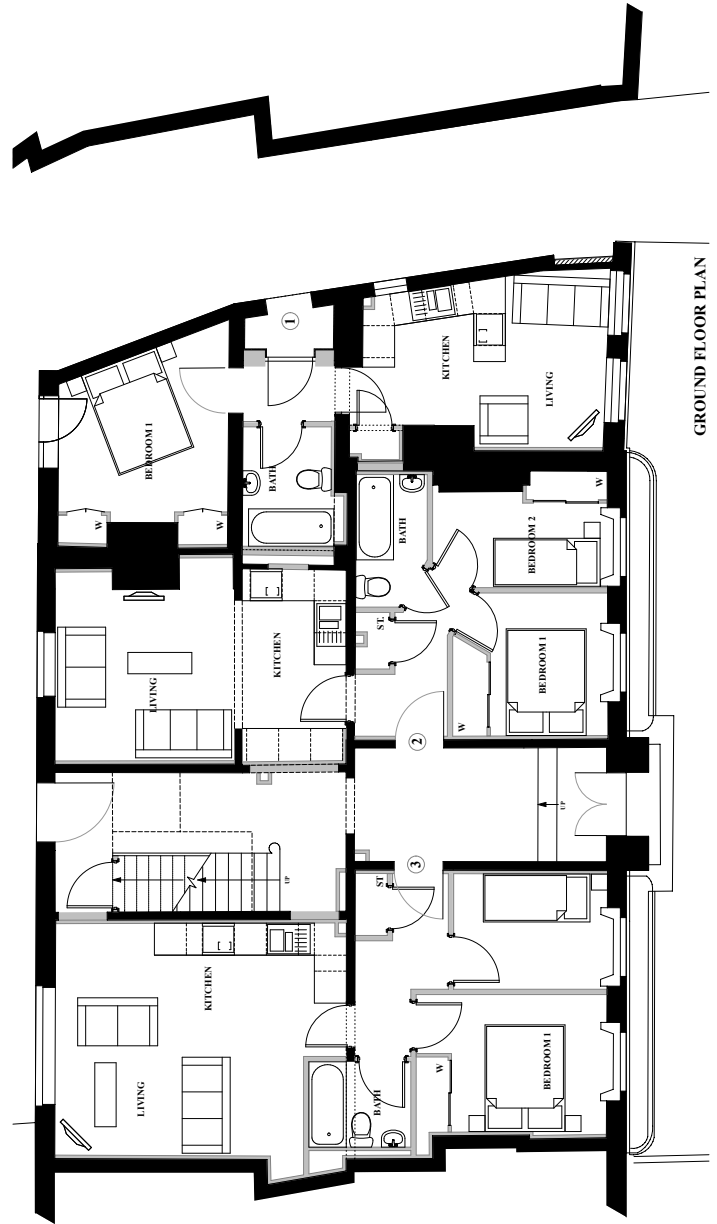
hives architects 401 Queen's Road, Reading RG1 4AU Telephone 0118 858 2313 Email: admin@hivesarchitects.co.uk		2508 302
Client: JMP ESTATES LIMITED Job No: 74-76 LONDON STREET, READING		Drawing Title: COMPARISON BETWEEN 8 FLAT SCHEME AND APPROVED 9 FLAT SCHEME Scale: 1:50 @A1 Date: 08.12.11 Drawn: ct



FIRST FLOOR PLAN



SECOND FLOOR PLAN



GROUND FLOOR PLAN

Existing wall
New wall

Client

JMP ESTATES LTD

74-76 LONDON STREET,
READING

Project File

74-76 LONDON STREET,
READING

Drawing Title

APPROVED 9 FLAT
SCHEME FLOOR PLANS

Scale

1:50 @A1

Date

08.07.10

Drawn

ct

PRELIMINARY ISSUE

hives architects

401 Queens Road, Reading RG1 4AU
Telephone 0118 858 2313
email admin@hivesarchitects.co.uk

2508

301

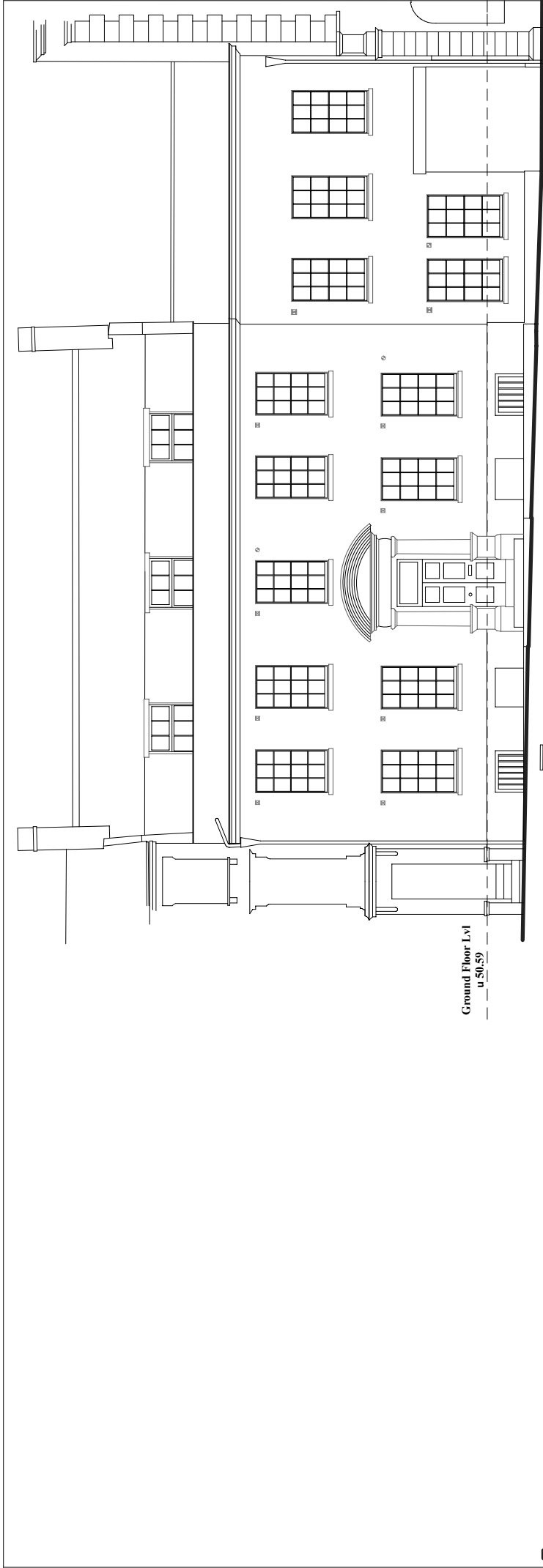
**Proposed Formation of a two
bedroom flat from a
previously approved one
bedroom and studio flat.**

at

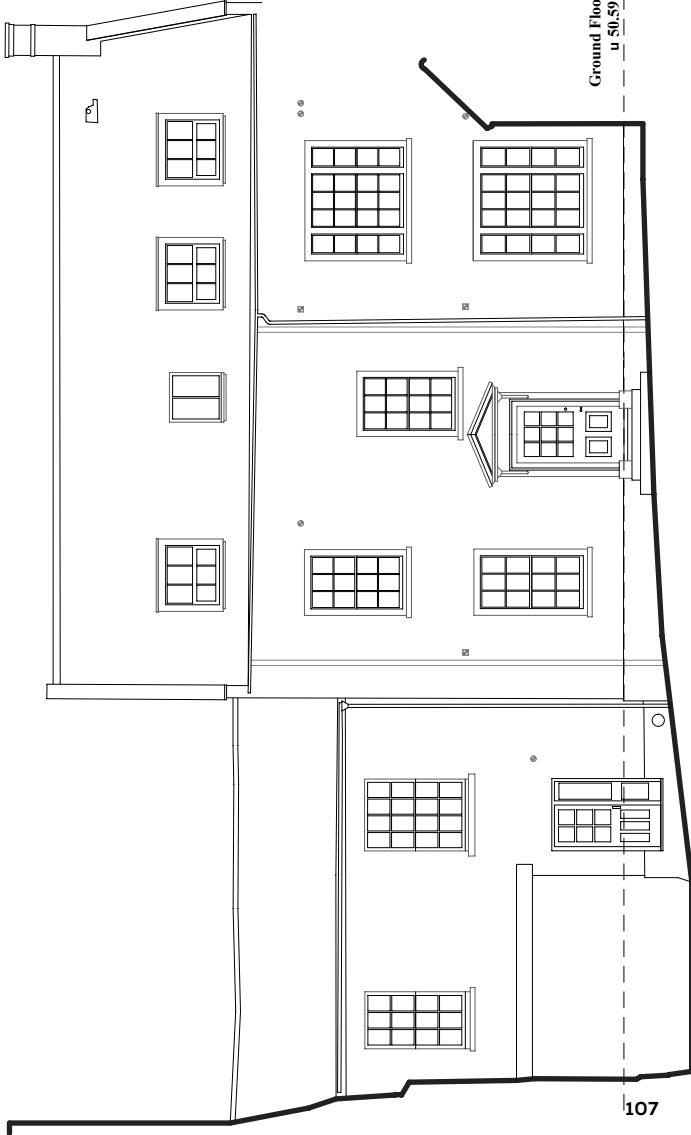
**74-76 London Street,
Reading**

for

JMP Estates Ltd

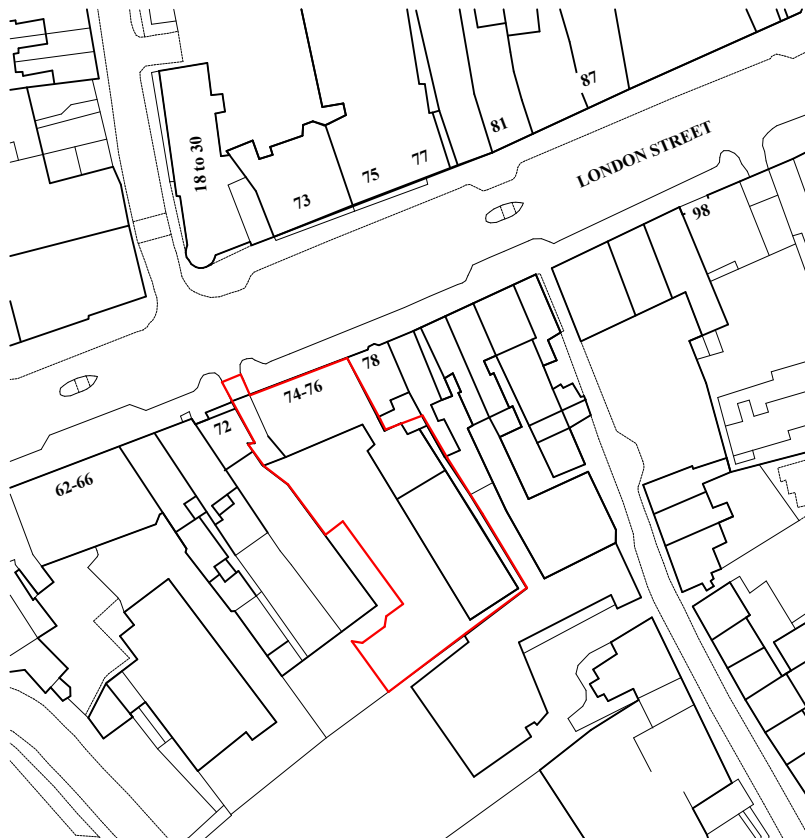


East/ Front Elevation



West Elevation

 461 Quaker Road, Reading RG1 4AU telephone 0118 958 7231 fax 0118 958 7232 email admin@hivesarchitects.co.uk	PROPOSED ELEVATIONS			2508	120	A
	Client JMP ESTATES LTD 74-76 LONDON STREET, READING	Drawing Title	Scale 1:50 @A1	Date 08.07.10	Drawn ct	ct



Client:

JMP ESTATES LTD

Job title:

**LAND TO THE REAR OF
74-76 LONDON STREET,
READING**

Drawing title:

**SITE LOCATION
PLAN**

Scale:

1:1250 @A4

Date:

08.07.10

Drawn:

ct



hives architects

48 Queen's Road, Reading RG1 4AU
telephone 0118 958 7331
fax 0118 958 7331
email admin@hivesarchitects.co.uk

2508

200



Client:

JMP ESTATES LTD

Job title:

74-76 LONDON STREET,
READING

Drawing title:

SITE BLOCK
PLAN

Scale:

1:50 @A4

Date:

08.07.10

Drawn:

ct

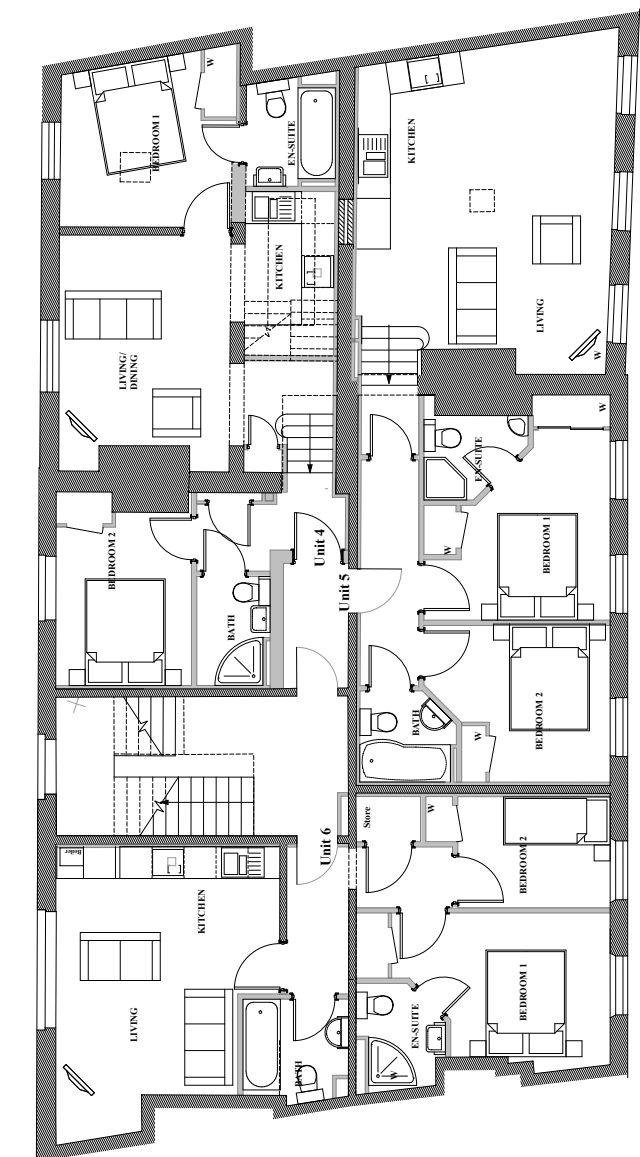


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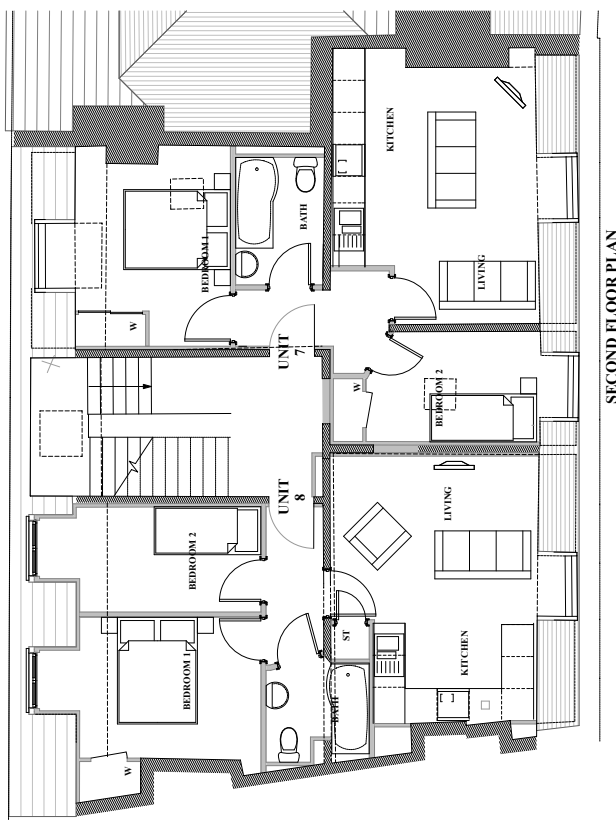
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email admin@hivesarchitects.co.uk

2508

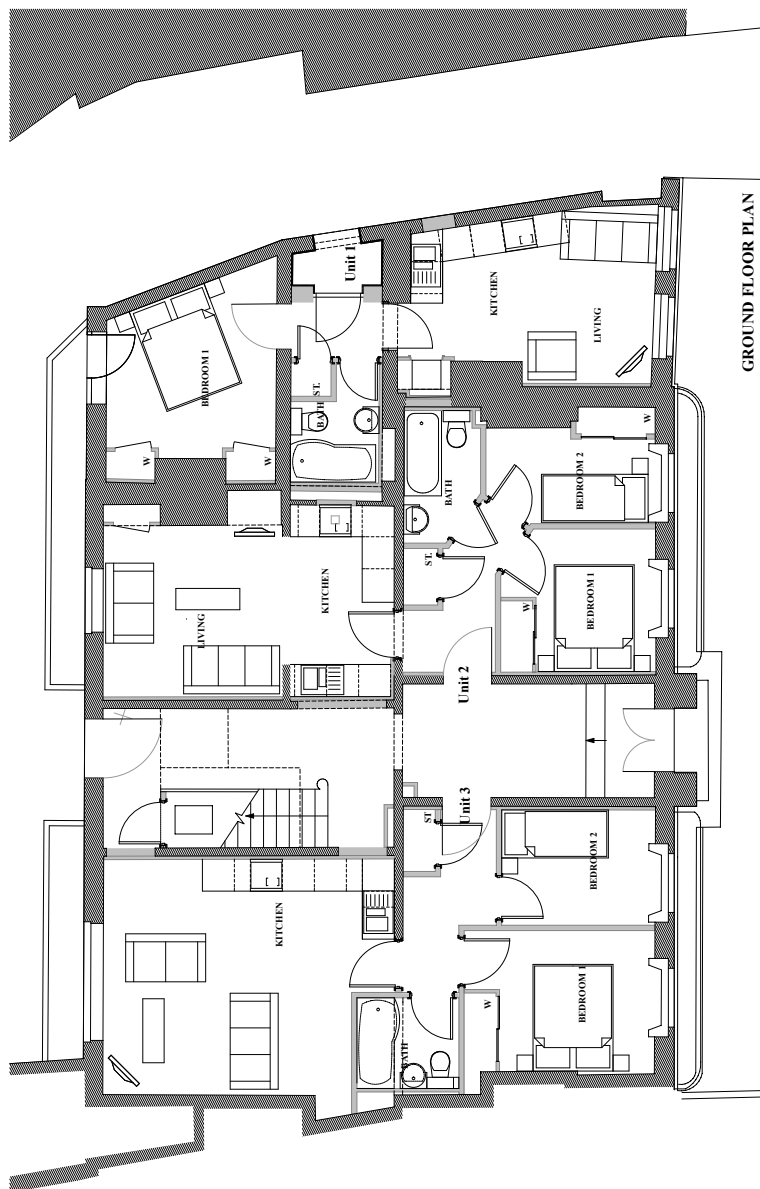
212



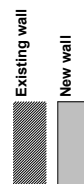
FIRST FLOOR PLAN



SECOND FLOOR PLAN



GROUND FLOOR PLAN



JMP ESTATES LIMITED 74-76 LONDON STREET, READING	Drawing Title 8 FLAT SCHEME FLOOR PLANS	2508			303		
		1:50 @A1			08.12.11		
Scale	Date	Drawn		ct			

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What we do:

Building Surveying
Daylight & Sunlight
Light Obstruction Notices
Measured Surveys
Party Wall & Neighbourly Matters
Rights of Light
Solar PV
Wind Analysis

Where we are:

Belfast
Birmingham
Bristol
Dublin
London
Manchester